

1 SERIES/1 PUBLICATION LIST SERIES/1

The following is a list of form numbers for hardware publications and maintenance library for Series/1:

FORM #	MAINTENANCE LIBRARY
SY34-0041	IBM 4955 Processor and Processor Features 4959 I/O Expansion Unit, 4999 Battery Backup Unit Theory Diagrams
SY34-0050	IBM 4955 Processor and Processor Features 4959 Input/Output Expansion Unit, 4999 Battery Backup Unit MIM
SY34-0042	IBM 4953 Processor and Processor Features 4959 Input/Output Expansion Unit, 4999 Battery Backup Unit Theory Diagrams
SY34-0051	IBM 4953 Processor and Processor Features 4959 Input/Output Expansion Unit, 4999 Battery Backup Unit MIM
SY34-0046	IBM 4974 Printer and Attachment Feature (#5620) Theory Diagrams
SY34-0055	IBM 4974 Printer and Attachment Feature (#5620) MIM
SY34-0047	IBM 4979 Display Station and Attachment Feature (#3585) Theory Diagrams
SY34-0056	IBM 4979 Display Station and Attachment Feature (#3585) MIM
SY34-0048	IBM 4982 Sensor I/O Unit and Attachment Feature (#6305) Theory Diagrams
SY34-0057	IBM 4982 Sensor I/O Unit and Attachment Feature (#6305) MIM
SY34-0045	IBM 4962 Disk Storage Unit and Attachment Feature (#3580) Theory Diagrams
SY34-0054	IBM 4962 Disk Storage Unit and Attachment Feature (#3580) MIM
SY34-0044	IBM 4964 Diskette Unit and Attachment Feature (#3581) Theory Diagrams
SY34-0053	IBM 4964 Diskette Unit and Attachment Feature (#3581) MIM
S134-0025	IBM 4974 Printer Parts Catalog
S134-0026	IBM 4979 Display Station Parts Catalog
S131-0602	IBM 4962 Disk Storage Unit Parts Catalog
S131-0601	IBM 4964 Diskette Unit Parts Catalog
S134-0024	IBM Series/1 Parts Catalog
<u>HARDWARE PUBLICATIONS</u>	
GA34-0035	IBM Series/1 System Summary
GA34-0029	IBM Series/1 Installation Manual-Physical Planning
GA34-0042	IBM Series/1 Configurator

GA34-0021	IBM Series/1 Model 5 4955 Processor and Processor Features Description
GA34-0022	IBM Series/1 Model 3 4953 Processor and Processor Features Description
GA34-0031	IBM Series/1 Customer Direct Program Control Adapter Features Description
GA34-0024	IBM Series/1 4962 Disk Unit Description
GA34-0023	IBM Series/1 4964 Diskette Unit Description
GA34-0026	IBM Series/1 4979 Display Station Description
GA34-0025	IBM Series/1 4974 Printer Description
GA34-0028	IBM Series/1 Communications Features Description
GA34-0027	IBM Series/1 4982 Sensor Input/Output Unit Description
GA34-0032	IBM Series/1 4999 Battery Backup Unit Description
GA34-0033	IBM Series/1 User's Attachment Manual
GA34-0039	IBM Series/1 Operator's Guide
<u>PROGRAMMING PUBLICATIONS</u>	
GC34-0070	IBM Series/1 Stand-Alone Utilities User's Guide
GY34-0071	IBM Series/1 Stand-Alone Utilities Program Logic Manual
SC34-0072	IBM Series/1 Base Program Preparation Facilities User's Guide
LY34-0073	IBM Series/1 Base Program Preparation Facilities Program Logic Manual
SC34-0074	IBM Series/1 Base Program Preparation Facilities Macro Assembler Programmer's Guide
LY34-0075	IBM Series/1 Base Program Preparation Facilities Macro Assembler
SX34-0076	IBM Series/1 Base Program Preparation Facilities Macro Assembler Language Reference Summary

339/02-11-77

2 NON-IBM ENCLOSURE SERIES/1

The Series/1 family of machines is modular in design. A loose comparison would be a component stereo. Because of this design, you will be installing systems differently than traditional. There is a Customer Site Preparation Manual available to both you and your customer. This manual does contain technical data for installing Series/1 machines. Also included will be details on the features of our IBM Enclosures. Our 4997 Enclosures are favorably priced when compared feature to feature against non-IBM enclosures.

One thing that is very different from traditional is that customers are required to do their own physical planning unless they elect to purchase this service from IBM. Should any standby time or delay in your being able to install these modules be caused by lack of customer preparedness of his site, it will be billable on Service Code

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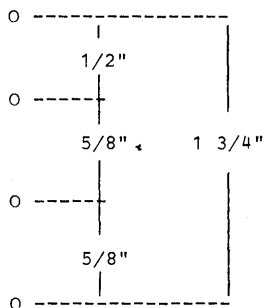
30. The customer should be made aware of this. A phone call prior to going out to install a Series/1 and/or an examination of the customer site prior to beginning installation may allow your customer to correct a deficiency while you are inventoring ship groups and reading over the installation instructions. This could eliminate wasted time and needless billing.

Current field policy is:

1. Customer Engineering will install all Series/1 machines - IBM or non-IBM enclosure.
2. Two CEs should be on site when the weight of modules dictates the need.
3. CE will not assemble the non-IBM enclosure or provide labor for alteration of same.
4. IBM CE will mount the Series/1 units in a non-IBM enclosure when it is equivalent in dimensions and mounting to the IBM Enclosure and presents no safety hazard. It must allow the Series/1 units to be mounted in the same fashion using the same tools as with the IBM Enclosure. The IBM CE will do no special drilling or fitting, or use special tools to accommodate the non-IBM enclosure.
5. As always, customer personnel will be required to move the machines into place and to remove external protective packing material.

The following items are those that you need to be aware of when ensuring that the site is properly prepared for installation:

1. Safety items such as; will the enclosure support the weight of our modules? Are all service clearances available? Will the enclosure not tip over when modules are moved to their service position? These along with the traditional items of fire protection, general safety of the area as well as route to and from the computer area should be considered. Any possible safety hazards should be brought to the attention of your manager for evaluation.
2. Insure that primary power is available and the voltage is correct. Insure that the power receptacle is correct and that all parts of the system have a common third wire ground. Dangerous potentials can develop between units without this common ground.
3. If you are installing a 4962 disk, it must be mounted in the bottom of an enclosure so that it will not cause the unit to tilt when the disk is extended to its service position. The front and back fastening screws must be installed exactly as shown in the 4962 installation instructions. The following illustration shows the spacing required to accomplish this.



This should conclude your examination. It is expected that questioning your customer and your visual examination should take less than 15 minutes. Any problems you have identified should be pursued toward a quick and satisfactory resolution.

The following information is helpful hints:

For safety, all of our screw slots should line up with screw holes and have screws in them. It is not necessary for safety or service that our processor, I/O expansion unit or similar modules be supported by anything other than the front panel mounting screws. It is required for IBM installation that chassis guides similar to those supplied with our IBM 4997 be installed by the customer. These supports will allow the module to be installed and removed by only one person where overall weight does not dictate two persons. Probably even more important is the ability provided to slide the module forward slightly. Customer cabling is difficult if this is not done.

When you have completed your installation, your customer may offer you a check to pay for his system. This situation should be discussed ahead of time with your field manager. Although not unusual, the handling of this payment is done as sales assistance according to local needs and management decisions.

The following materials are recommended for availability to Branch Office personnel in answering questions on installation of Series/1:

- (a) Customer Site Preparation Manual
- (b) Installation Manual - Physical Planning for Series/1

345/05-06-77

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JUMPERING FOR SERIES/1 NATIVE COMMUNICATION FEATURES

This service aid is to help the CE understand the different configurations and jumpers for communications. All Series/1s are sent from the Boca Raton plant pre-configured to the customer requirements. Even though most of these pre-configured systems will go in without changes, the customer will, in some cases, change his mind between the time he orders his system and when it is installed. The following lists and charts will aid the CE.

To use the following lists and charts, you should:

1. Write down the feature code.
2. Find the feature code list for that code.
3. Get a description of the type of hook-up (med. speed, SW line, etc.) the customer wants and find it in the list.
4. Find the specify code for that description.
5. Go to the charts for the above feature code.
6. Find the above specify code on that chart and jumper those points that are given.

Example: The customer ordered Feature Code 1610 (ACCA single line) to work in a low speed (134.5 BPS) leased line, half-duplex environment. He now wants Feature Code 1610 (ACCA single line) to work in a medium speed (2400 BPS) leased line, half-duplex environment. The card came jumpered:

- a. The low speed jumper on.
- b. DTR jumper on, all others off.

3 continued

Using the list - Look up Feature Code 1610 List.

- Find new description
- Write down Specify Code (8116)
- Go to Chart for Feature Code 1610
- Find Specify Code (8116)
- Jumper med. speed on
- Jumper DTR on, all others off.

LIST 'A'
#1610 ACCA SINGLE LINE

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8100	1610	LOW SPEED, DIRECT CONNECT,
8101	1610	LOW SPEED, DIRECT CONNECT, RTS JUMPERED
8102	1610	LOW SPEED, HALF-DUPLEX, SWITCHED NETWORK
8103	1610	LOW SPEED, FULL-DUPLEX, SWITCHED NETWORK
8104	1610	LOW SPEED, HALF-DUPLEX, SWITCHED NETWORK CARRIER DETECT PROVIDED
8105	1610	LOW SPEED, FULL-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED
8106	1610	LOW SPEED, HALF-DUPLEX, LEASED LINE
8107	1610	LOW SPEED, FULL-DUPLEX, LEASED LINE
8108	1610	LOW SPEED, HALF-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED
8109	1610	LOW SPEED, FULL-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED
8110	1610	MEDIUM SPEED, DIRECT CONNECT
8111	1610	MEDIUM SPEED, DIRECT CONNECT, RTS JUMPERED
8112	1610	MEDIUM SPEED, HALF-DUPLEX, SWITCHED NETWORK
8113	1610	MEDIUM SPEED, FULL-DUPLEX, SWITCHED NETWORK
8114	1610	MEDIUM SPEED, HALF-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED
8115	1610	MEDIUM SPEED, FULL-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED
8116	1610	MEDIUM SPEED, HALF-DUPLEX, LEASED LINE
8117	1610	MEDIUM SPEED, FULL-DUPLEX, LEASED LINE
8118	1610	MEDIUM SPEED, HALF-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED
8119	1610	MEDIUM SPEED, FULL-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED

LIST 'B'
#2074 BSCA SINGLE LINE

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8120	2074	MULTIPOINT TRIBUTARY
8121	2074	MULTIPOINT TRIBUTARY, INTERNAL CLOCKING
8122	2074	SWITCHED NETWORK, HALF-DUPLEX
8123	2074	SWITCHED NETWORK, RING INDICATE PROVIDED
8124	2074	SWITCHED NETWORK, INTERNAL CLOCKING
8125	2074	SWITCHED NETWORK, INTERNAL CLOCKING, RING INDICATE PROVIDED
8126	2074	LEASED LINE, 2-WIRE
8127	2074	LEASED LINE, 4-WIRE
8128	2074	LEASED LINE, INTERNAL CLOCKING, 2-WIRE
8129	2074	LEASED LINE, INTERNAL CLOCKING, 4-WIRE

LIST 'C'
#2075 BSCA HIGH SPEED

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8161	2075	V35/DDN, HALF-DUPLEX, LEASED LINE
8162	2075	V35/DDN, FULL-DUPLEX, LEASED LINE
8163	2075	V35/DDN, MULTIPOINT TRIBUTARY
8164	2075	WE303, HALF-DUPLEX, LEASED LINE
8165	2075	WE303, FULL-DUPLEX, LEASED LINE
8166	2075	WE303, MULTIPOINT TRIBUTARY

LIST 'D'
#2090 SDLC

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8130	2090	SWITCHED NETWORK
8131	2090	SWITCHED NETWORK, RING INDICATE PROVIDED
8132	2090	SWITCHED NETWORK, INTERNAL CLOCKING
8133	2090	SWITCHED NETWORK, INTERNAL CLOCKING, RING INDICATE PROVIDED
8134	2090	LEASED LINE, 2-WIRE
8135	2090	LEASED LINE, 4-WIRE
8136	2090	LEASED LINE, INTERNAL CLOCKING 2-WIRE
8137	2090	LEASED LINE, INTERNAL CLOCKING 4-WIRE

LIST 'E'
#2091 ACCA MULTI-LINE CONTROLLER

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8141	2091	CONTROLLER NUMBER 1
8142	2091	CONTROLLER NUMBER 2
8143	2091	CONTROLLER NUMBER 3
8144	2091	CONTROLLER NUMBER 4
8145	2091	CONTROLLER NUMBER 5
8146	2091	CONTROLLER NUMBER 6

LIST 'F'
#2092 ACCA 4-LINE ADAPTER

SPECIFY CODE	FEAT. CODE	DESCRIPTION
820X (1-6)	2092	LOW SPEED, DIRECT CONNECT, 'X' DEFINES WHAT CONTROLL NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
821X (1-6)	2092	LOW SPEED, DIRECT CONNECT, RTS JUMPERED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
822X (1-6)	2092	LOW SPEED, HALF-DUPLEX, SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
823X (1-6)	2092	LOW SPEED, FULL-DUPLEX, SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

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824X (1-6) 2092 LOW SPEED, HALF-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE ATTACHES TO

825X (1-6) 2092 LOW SPEED, FULL-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

826X (1-6) 2092 LOW SPEED, HALF-DUPLEX, LEASED LINE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE ATTACHES TO

827X (1-6) 2092 LOW SPEED, FULL-DUPLEX, LEASED LINE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

828X (1-6) 2092 LOW SPEED, HALF-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

829X (1-6) 2092 LOW SPEED, FULL-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

830X (1-6) 2092 MEDIUM SPEED, DIRECT CONNECT, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

831X (1-6) 2092 MEDIUM SPEED, DIRECT CONNECT, RTS JUMPERED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

832X (1-6) 2092 MEDIUM SPEED, HALF-DUPLEX, SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

833X (1-6) 2092 MEDIUM SPEED, FULL-DUPLEX, SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

834X (1-6) 2092 MEDIUM SPEED, HALF-DUPLEX, SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

835X (1-6) 2092 MEDIUM SPEED, FULL-DUPLEX, SWITCHED NETWORK, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

836X (1-6) 2092 MEDIUM SPEED, HALF-DUPLEX, LEASED LINE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

837X (1-6) 2092 MEDIUM SPEED, HALF-DUPLEX, LEASED LINE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

838X (1-6) 2092 MEDIUM SPEED, HALF-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

839X (1-6) 2092 MEDIUM SPEED, FULL-DUPLEX, LEASED LINE, CARRIER DETECT PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

LIST 'G'

#2093 BSCA 8-LINE CONTROLLER

SPECIFY CODE	FEAT. CODE	DESCRIPTION
8151	2093	CONTROLLER NUMBER 1
8152	2093	CONTROLLER NUMBER 2
8153	2093	CONTROLLER NUMBER 3
8154	2093	CONTROLLER NUMBER 4
8155	2093	CONTROLLER NUMBER 5
8156	2093	CONTROLLER NUMBER 6

LIST 'H'

#2094 BSCA 4-LINE ADAPTER

SPECIFY CODE	FEAT. CODE	DESCRIPTION
840X (1-6)	2094	MULTIPOINT TRIBUTARY, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
841X (1-6)	2094	MULTIPOINT TRIBUTARY, INTERNAL CLOCKING, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
842X (1-6)	2094	SWITCHED NETWORK, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
843X (1-6)	2094	SWITCHED NETWORK, RING INDICATE PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
844X (1-6)	2094	SWITCHED NETWORK, INTERNAL CLOCKING, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
845X (1-6)	2094	SWITCHED NETWORK, INTERNAL CLOCKING, RI PROVIDED, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
846X (1-6)	2094	LEASED LINE, 2-WIRE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHED TO
847X (1-6)	2094	LEASED LINE, 4-WIRE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
848X (1-6)	2094	LEASED LINE, INTERNAL CLOCKING, 2-WIRE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO
849X (1-6)	2094	LEASED LINE, INTERNAL CLOCKING, 4-WIRE, 'X' DEFINES WHAT CONTROLLER NUMBER (1-6) THIS FEATURE LINE ATTACHES TO

3 continued SPECIFY CODE TO JUMPER CHART 1

FEATURE #1610 (ACCA SINGLE LINE)

SPECIFY CODE	JUMPERS TO INSTALL*
8100	Low Speed Jumper; Data Terminal Ready Jumper
8101	Low Speed Jumper; DTR Jumper; RTS Jumper
8102	Low Speed Jumper;
8103	Low Speed Jumper; RTS Jumpers
8104	Low Speed Jumper; Carrier Detect Jumper
8105	Low Speed Jumper; RTS Jumpers; Carrier Jumper
8106	Low Speed Jumper; DTR Jumper
8107	Low Speed Jumper; DTR and RTS Jumpers
8108	Low Speed Jumper; DTR Jumper; Carrier Detect Jumper
8109	Low Speed Jumper; DTR and RTS Jumpers; Carrier Detect Jumper
8110	Medium Speed Jumper; DTR Jumper
8111	Medium Speed Jumper; DTR and RTS Jumpers
8112	Medium Speed Jumper;
8113	Medium Speed Jumper; RTS Jumper
8114	Medium Speed Jumper; Carrier Detect Jumper
8115	Medium Speed Jumper; RTS Jumper; Carrier Detect Jumper
8116	Medium Speed Jumper; DTR Jumper
8117	Medium Speed Jumper; DTR and RTS Jumpers
8118	Medium Speed Jumper; DTR Jumper; Carrier Detect Jumper
8119	Medium Speed Jumper; DTR and RTS Jumpers; Carrier Detect Jumper

* Refer to drawing SC 110

SPECIFY CODE TO JUMPER CHART 2

FEATURE #2074 (BSCA SINGLE LINE)

SPECIFY CODE	JUMPERS TO INSTALL*
8120	Multi-point tributary (MP) Jumper; DTR Jumper; No RI Jumper
8121	Same Jumpers as 8120 and ICLK Jumper on
8122	MP Terminal Address Bit 7 Jumper; No RI Jumper
8123	MP Terminal Address Bit 7 Jumper
8124	MP Terminal Address Bit 7 Jumper; ICLK Jumper; No RI Jumper
8125	MP Terminal Address Bit 7 Jumper; ICLK Jumper
8126	No RI Jumper; DTR Jumper
8127	DTR Jumper and RTS Jumper; No RI Jumper
8128	DTR Jumper, ICLK Jumper; No RI Jumper
8129	Same Jumpers as 8128 and add RTS Jumper

* Refer to drawing SC 310

SPECIFY CODE TO JUMPER CHART 3

FEATURE #2075 (BSCA HIGH SPEED)

SPECIFY CODE	JUMPERS TO INSTALL*
8161	V35 Modem Jumpers; DTR Jumper
8162	V35 Modem Jumpers; DTR and RTS Jumpers
8163	V35 Modem Jumpers; MP Tributary Terminal Jumper; DTR Jumper
8164	WE303 Modem Jumper; DTR Jumper

8165	WE303 Modem Jumper; DTR and RTS Jumper
8166	WE303 Modem Jumper; MP Tributary Terminal Jumper; DTR Jumper

* Refer to drawing SC360

SPECIFY CODE TO JUMPER CHART 4

FEATURE #2090 (SDLIC)

SPECIFY CODE	JUMPERS TO INSTALL*
8130	No Jumpers; No RI Jumper
8131	No Jumpers
8132	ICLK Jumper; No RI Jumper
8133	ICLK Jumper
8134	No RI Jumper, DTR Jumper
8135	No RI Jumper, DTR Jumper and RTS Jumper
8136	No RI Jumper, ICLK Jumper, DTR Jumper
8137	No RI Jumper, ICLK Jumper, DTR and RTS Jumpers

* Refer to drawing SC610

SPECIFY CODE TO JUMPER CHART 5

FEATURE #2091 (ACCA MULTI-LINE CONTROLLER)

SPECIFY CODE	
8141	Controller #1
8142	Controller #2
8143	Controller #3
8144	Controller #4
8145	Controller #5
8146	Controller #6

To determine the # lines attaches to this controller, compare the last digit of the controller specify code to the last digit of the line specify code. If equal, then the line is attached to this controller. Line specify code numbers must be in the range from 820X thru 839X.

S/S CONTROLLER ID WORD

# OF LINES	JUMPERS TO INSTALL*
2 Lines	P0, 02, 07, 12, 13, 14 All Others Off
4 Lines	P0, 02, 06, 12, 13, 14 All Others Off
6 Lines	02, 06, 07, 12, 13, 14 All Others Off
8 Lines	02, 12, 13, 14 All Others Off

* Refer to drawing SC152

SPECIFY CODE TO JUMPER CHART 6

FEATURE #2092 (ACCA 4-LINE ADAPTER)

X indicates controller number (1-6)

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SPECIFY

CODE	JUMPERS TO INSTALL*
820X	Low Speed Jumper (less than or equal 300bps), DTR Jumper
821X	Same as above and RTS Jumper
822X	Low Speed Jumper;
823X	Low Speed Jumper; RTS Jumper
824X	Low Speed Jumper; Carrier Detect Jumper
825X	Low Speed Jumper, RTS Jumper; Carrier Detect Jumper
826X	Low Speed Jumper, DTR Jumper
827X	Low Speed Jumper, DTR and RTS Jumpers
828X	Low Speed Jumper, DTR Jumper, Carrier Detect Provided
829X	Low Speed Jumper, DTR and RTS Jumper, Carrier Detect Provided
830X	Medium Speed Jumper (rate above 300bps), DTR Jumper
831X	Medium Speed Jumper, DTR Jumper, RTS Jumper
832X	Medium Speed Jumper;
833X	Medium Speed Jumper; RTS Jumper
834X	Medium Speed Jumper; Carrier Detect Jumper
835X	Medium Speed Jumper, RTS Jumper, Carrier Detect Jumper
836X	Medium Speed Jumper; DTR Jumper
837X	Medium Speed Jumper; DTR and RTS Jumpers
838X	Medium Speed Jumper; DTR Jumper, Carrier Detect Jumper
839X	Medium Speed Jumper; DTR Jumper, RTS Jumper, Carrier Detect Jumper

* Refer to drawing SC157

SPECIFY CODE TO JUMPERS CHART 7

FEATURE #2093 (BSCA 8-LINE CONTROLLER)

SPECIFY CODE

8151	Controller #1
8152	Controller #2
8153	Controller #3
8154	Controller #4
8155	Controller #5
8156	Controller #6

To determine the # of lines attached to this controller compare the last digit of the controller specify code to the last digit of line specify code. If equal, then the line is attached to this controller. Line specify code numbers must be in the range from 840X to 849X.

BSCA CONTROLLER ID WORD

# OF LINES	JUMPERS TO INSTALL*
4 Lines	P0, P1, 02, 07, 13, 14 All Others Off
6 Lines	P1, 02, 06, 07, 13, 14 All Others Off
8 Lines	P1, 02, 13, 14 All Others Off

* Refer to drawing SC402

SPECIFY CODE TO JUMPER CHART 8

FEATURE #2094 (BSCA 4-LINE ADAPTER)

SPECIFY

CODE	JUMPERS TO INSTALL*
840X	MP Jumper; DTR Jumper; No RI Jumper
841X	MP Jumper, ICLK Jumper; DTR Jumper, No RI Jumper
842X	MP Address Bit 7; No RI Jumper
843X	MP Add Bit 7
844X	MP Add Bit 7; ICLK Jumper; No RI Jumper
845X	MP Add Bit 7; ICLK Jumper
846X	DTR Jumper, No RI Jumper
847X	DTR and RTS Jumpers, No RI Jumper
848X	DTR Jumper, ICLK Jumper, No RI Jumper
849X	DTR and RTS Jumpers, ICLK Jumper, No RI Jumper

* Refer to drawing SC407

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SERIES 1 CARD PART NUMBERS

In the list below, you will find part numbers of cards for the Series/1 (4953, 4955, 4959). They are grouped by card name, oldest to newest part number.

Card Name	Part #
4955 ROS	4411760
	8326894
	8327489 WTC
	6826458
	6827280
	6837339
4955 Address	1635669
	4413214
	4413299
	4413321
4955 Data	4413164
	4413215
	4413794
16K 4953	CANCELLED 449/08-21-81
16K 4955	Refer to S/A #9
32K 4953	1635627
	4410718
	4412736
32K 4955	8238225
64K 4955	8253659
Xlator	4413216
Add. Expansion 4955E	8333777
4955 Floating Pt.	4413759
4953 Processor	4411098
	4411597
	4411843
	1632936
	4413853
	4414821
	8327642
Channel Repower VTL	1631924
Channel Repower Dutch.	4410759
	4411841

CEM Service Aids

Group 869

SERIES 1

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CARD NAME	PART NUMBER
Timer	1633921 1635645 4413217
TTY	1631337 4413262 4414864
S/S 1 - Line	4413330 4411744 6826141
BSCA 1-Line	4413329 4411740 8327258 6826143
S/S 8-Line	4410726 4411886 6826147
S/S 4 Line	1634061 4413149 4413245
BSCA 8-Line	4413396 4411884 4411852 8327156
BSCA 4-Line	1634062 4413247
BSCA H.S.	4411834 4411742 8327259
SDLC	1635595 4411022
Auto Call	1632933
4962 Attachment	4410723 4411694
4964 Attachment	4413298 4413828 6826174
4973 Attachment	4413134 4411775 6825312
4974 Attachment	4413168 4413958
4978 Attachment	4411729 4411932 4413882 8326924 6828710
4979 Attachment U.S.	4413256 4411535 4413921 8326918
4979 - U.K.	4413922 8326419
4979 - Germany	4413923 8326920
4979 - French I & Belgium	4413924 8326922
4979 - Japan & Italy & French II	4413925 8326923
4979 - Sweden	4413900 8326921
Socket Adapter	1634500

CARD NAME	PART NUMBER
O.E.M.I.	4411059
Integrated DI/DO	4413289
4982 Attachment	4411059
4982 RR MPX	1632091
4982 SS MPX	1633405
4982 AO	1633793
4982 D.O. Non Isolation	1633795
4982 AI Amp	4410231 4410267 4412768 4413762
4982 ADC	1633823 4410274
4982 DI/PI Isolation	4413394 4412774
4982 Terminator	4411518 4411610 6825360
4982 DI/PI Non Isolation	4413136
Com. Power \pm 12V	4412932
4987 Controller	8326868 8327260 8327456 8333815 6838163
4987 Scanner	4413997 4414852 8327476 8333805 6825362
4987 Channel	8326869 8333621 8333670 6826209 6826156 6826514
4987 EIA 1/2 dup	4411572 4413912
4987 EIA Full Dup	4411584 4413916
4987 Asynchronous Local Attach	4411578
4987 Synchronous Local Attach	4411580
4987 Auto Call	4411582 4413914
4987 TTY	4411574
4987 38 LS Asynchronous	4411586 8326886
4987 38 LS Synchronous	4411590 8326888
4987 Modem LL	1644769 1756005
4987 Modem LL SNBU	1644703 1756003
4987 Modem SN	1644701 1756001
4987 DDSA	8527032

SERIES 1

4 continued

4990 H. H. Console Card	4411251
	4411083
	8333669
4987 Power Card	4411135
	8326949

CABLE PART NUMBERS

4987 Control to I/O X Over	5802320
----------------------------	---------

4959 Channel Cable Groups

6'	1632923
3'	1632771

4962 Cables to Attachment Card

Group 1632200 (4 cables)
1 cable 1632212

362/01-27-78 388/02-23-79

CEM Service Aids

Group 869

SERIES 1

5 CARD PART NUMBER Vs. DIAGNOSTIC DISKETTE

The below tables are to be used to determine what diagnostic diskette EC level you need to support a given card part number. EC 754882 is being used as a starting point for these tables and they will progress as card part numbers and/or the diagnostics change. Diskette P/N 1635002 (Communication) DOES NOT contain the over-the-line tests. These special tests are contained on diskette P/N 1635001. Card P/N's are listed oldest card first.

DISKETTE P/N 1635001

CARD NAME	CARD P/N	1	2	3	4	5	6
4952-CPU	6841440						*
4953-16K	4413260	*	*	*	*	*	*
4953-32K	4412736	*	*	*	*	*	*
4953-CPU	4414821	*	*	*	*	*	*
4953-CPU	8327642	*	*	*	*	*	*
4955 ROS	4411760	*	*	*	*	*	*
4955 ROS	8326894	*	*	*	*	*	*
4955 ROS	8327489 WT	*	*	*	*	*	*
4955 ROS	6826458	*	*	*	*	*	*
4955 ROS	6827280	*	*	*	*	*	*
4955 ROS	6837339	*	*	*	*	*	*
4955 ADDRESS	4413321	*	*	*	*	*	*
4955 DATA	4413794	*	*	*	*	*	*
4955-16K	8324799	*	*	*	*	*	*
4955-32K	8328225	*	*	*	*	*	*
4955 E - 64K	8253659			*	*	*	*
CHAN. REPOWER	4411841	*	*	*	*	*	*
4955 FLT. POINT	4413759	*	*	*	*	*	*
TIMER	4413217	*	*	*	*	*	*
4955 XLATOR	4413216	*	*	*	*	*	*
4955 E - ADDR							
EXPANSION	8333777			*	*	*	*
TWO CHAN SW	6826201					*	*
TWO CHAN SW	6839262					*	*

- 1 = EC 754882
- 2 = EC 755331
- 3 = EC 755404
- 4 = EC 755551
- 5 = EC 375147
- 6 = EC 375401

DISKETTE P/N 1635002

CARD NAME	CARD P/N	1	2	3	4
BSCA 9.6KB	4411740	*	*	*	*
	8327258	*	*	*	*
	6826143	*	*	*	*
BSCA 56KB	4411742	*	*	*	*
	8327259	*	*	*	*
	6826145	*	*	*	*
BSCA 4 LN	4413247	*	*	*	*
BSCA 8 LN	8327156	*	*	*	*
	6826149	*	*	*	*
S/S 1 LN	4411744	*	*	*	*
	6826141	*	*	*	*
S/S 4 LN	4413245	*	*	*	*
S/S 8 LN	4411886	*	*	*	*
	6826147	*	*	*	*
SDLC	4411022	*	*	*	*
COMM. POWER	4412932	*	*	*	*
	6840803	*	*	*	*
O.E.M.I.	4411059	*	*	*	*
NATIVE DI/DO	4413289	*	*	*	*

- 1 = EC 754882
- 2 = EC 755243
- 3 = EC 375135
- 4 = EC 375094

DISKETTE P/N 1635279

CARD NAME	CARD P/N	1	2	3
4982-ATTACH.	4411059	*	*	
AI-BASIC	1633823	*	*	
	4410274	*	*	
AI-MR AMP.	4413762	*	*	
R/R MPX	1632091	*	*	
S/S MPX	1633405	*	*	
AO	1633793	*	*	
DI/PI ISOL.	4413394	*	*	
	4412774	*	*	
DI/PI NON-ISOL.	4413136	*	*	
DO NON-ISOL.	1633795	*	*	
TERMINATOR	4411518	*	*	
	4411610	*	*	
	6825360	*	*	

- 1 = EC 754882
- 2 = EC 375052
- 3 = EC XXXXXX

DISKETTE P/N 1635278

CARD NAME	CARD P/N	1	2	3
4964 DISKETTE	4413240	*	*	
	4413298	*	*	
	4413828	*	*	
	6826174	*	*	
4962 DISK ATTACH	4411694	*	*	
# DW1A2	8250195	*	*	
# DW1A5	8219260	*	*	
# DW1B3	8219255	*	*	
# DW1A4	8211064	*	*	
# A-A1C2	4201728	*	*	
# A-A1D2	4201730	*	*	
# A-A1G2	8562903	*	*	
# A-A1H2	8522702	*	*	
# A-A1J2	8219247	*	*	
# A-A1J4	8250457	*	*	
# A-A1K2	8255177	*	*	
# A-A1K4	5864396	*	*	
4973	4411775	*	*	
	6825312	*	*	
	6840387	*	*	
4974	4413958	*	*	
4978	4413882	*	*	
	8326924	*	*	
	6828710	*	*	
4979-U.S.	4413921	*	*	
	8326918	*	*	
4979-U.K.	4413922	*	*	
	8326919	*	*	
4979-GERMANY	4413923	*	*	
	8326920	*	*	
4979-FRENCH I AND BELGIUM	4413924	*	*	
	8326922	*	*	
4979-JAPAN & ITALY & FRENCH II	4413925	*	*	
	8326923	*	*	
4979-SWEDEN	4413900	*	*	
	8326921	*	*	
TTY	4414864	*	*	

- 1 = EC 754882
- 2 = EC 755285
- 3 = EC XXXXXX
- # = Disk Internal Cards

SERIES 1

5 continued DISKETTE (4987) P/N 4414981

CARD NAME	CARD P/N	1	2	3
CHANNEL	6826156	*	*	*
	6826514	*	*	*
CONTROLLER	8333815	*	*	*
	6838163	*	*	*
SCANNER	8333805	*	*	*
	6825362	*	*	*
EIA 1/2 DUPLEX	4413912	*	*	*
EIA FULL DUPLEX	4413916	*	*	*
ASYN LOCAL ATTACHMENT	4411578	*	*	*
SYN LOCAL ATTACHMENT	4411580	*	*	*
AUTO CALL US & CAN	4413914	*	*	*
TTY	4411574	*	*	*
38LS ASYN (BASE)	8326886	*	*	*
38LS SYN (BASE)	8326888	*	*	*
38LS MODEM LEASE LINE	1756005	*	*	*
38LS MODEM LL - SNBU	1756003	*	*	*
38LS MODEM SW NETWORK	1756001	*	*	*
38LS MODEM LL (GBGI)	1756011	*	*	*
DIGITAL DATA SERVICE ATTACH.	8527032	*	*	*
H.H. CONSOLE (4990)	8333669	*	*	*
POWER CARD	8326949	*	*	*

1 = EC 755280
2 = EC 755458
3 = EC 375032

DISKETTE (4993-1) P/N 6838602

CARD NAME	CARD P/N	1	2	3
370 CHAN ATTACH	6826858	*	*	

1 = EC 374942
2 = EC 375241
3 = EC XXXXXX

DISKETTE (4966) P/N 6838000

CARD NAME	CARD P/N	1	2	3
4966 ATTACH	6840515	*		

1 = EC 375149
2 = EC XXXXXX
3 = EC XXXXXX

DISKETTE (4963) P/N 6826999

CARD NAME	CARD P/N	1	2	3
4963 ATTACH	6838056	*		
#A-A1B2	8230320	*		
#A-A1C2	5148713	*		
#A-A1D2	5830575	*		
#A-A1E2	8230248	*		
#A-A1F2	8230318	*		
#ACTUATOR DRIVEP	5145307	*		
#TERMINATOR	5861353	*		
#A-A2C2	5643141	*		
#A-A2D2	5643076	*		

1 = EC 375222
2 = EC XXXXXX
3 = EC XXXXXX
= INTERNAL CARDS

The below list contains the Back Panel Board part numbers:

NAME	BOARD P/N
4952 A	1637543
4952 B	1637547
4953 A	1637543
4953 B	1637547
4953 C	4411934
4953 D	4411935
4955 A	1631120
4955 B	1631122
4955 C	4413322
4955 D	4413324
4955 E	4413792
4959	1631124

373/06-30-78 404/10-12-79

6 FIELD E.M.C. (ELECTROMAGNETIC COMPATIBILITY) SIMULATION PROCEDURE FOR SERIES/1 (ZAPPING PROCEDURE)

Special tools needed:

EMC Simulator (ZAPPER) P/N 453204

Oscilloscope

*Single cycle control unit P/N 1752393
*Probe converter attachment P/N 5187150
MPLD and maintenance console as needed

*NOTE: Needed only if P/N 453204 has not been upgraded to the latest level.

- Before starting EMC testing, check that all ground cables, cable clamps, metal covers, etc. are installed and tight.
- Secure the customer interface if Sensor I/O or I/DI/DO is installed on the system.

NOTE: It may be necessary to secure all TP Interfaces.

- Set up EMC simulator P/N 453204 per instructions in EMC Simulator Manual, form SY27-0109.

- Load and run SYSTST Program (ID 3410). Bypass 5 error limit. If CPU only, loop CPU test.

- If no diskette, use MPLD to load SYSTST. After SYSTST loaded, remove the cable from MPLD attach card and replace cover.

- If 4962(s) fixed disk is installed, go to Step 5A. If no 4962, skip to Step 6.

NOTE: While running zapper, keep personnel movement to a minimum as it may affect the test levels.

- Begin zapping at a voltage level below 200V at test point 1 (Fig. 1) or if

6 continued

in non-IBM rack, test point E (Fig. 2B). Slowly turn voltage up until a failure is noted. Record this level under failure column in figure of merit table Figure 1.

5B. Lower voltage until system will run error free for 3 minutes. Record this value in figure of merit table under run level. Stop zapper.

5C. Terminate SYSTST of 4962(s). Power 4962(s) off. Continue SYSTST run for remaining system.

NOTE: If 4962 is Mod 2/2F/4, also terminate testing of the diskette.

6. If system is installed in non-IBM rack, use only the alphabetized test points shown on the following figures. (Remove front plastic covers to gain access to lower mounting rail zap test points). If the system is installed in a 4997, use only the numerical test points shown on the following figures. (Do not remove front plastic covers). If the test points are physically higher than zapper will reach, place zapper on a table if available or use probe accessory attachment with disk probe P/N 1752385.
7. At each test point, slowly raise the voltage level of the zapper until a failure is noted. Record this level on the figure of merit table (Figure 1) under failure level, also note the type of failure and error indications in remarks area.
8. Lower the zap level until system runs error free (for three minutes). Record this value in the figure of merit table under run level.
9. Repeat Steps 7 & 8 until all test points which apply to your system have been tested. Then stop SYSTST.
10. If Sensor I/O is installed on the system, restore the system, except for 4962(s). With customers' permission, restart SYSTST, excluding 4962(s) and zapp T.P. 1 or C per Steps 7 & 8 (noting that sensor wiring attached in remarks section). If no sensor I/O or if customer interface will not allow testing, continue to Step 11.
11. Restore and return system to the customer.
12. For further testing of the system's ability to reject induced electrical noise on Sensor I/O or TP line, use the STODDART PROBE and Zapper Adapter. Place the cables thru the STODDART PROBE then run zapper to induce noise on lines. These levels may be recorded in the table for future reference.

FIGURE 3 Shows typical results of the Zap Procedure. The voltage levels shown are not design levels, they are figures of merit and, therefore, are for reference only. Depending upon local condition, a system may not reach the shown level but will not have ESD Problems.

FIGURES START ON PAGE 10

SERIES 1

6 continued

EMC FIGURE OF MERIT TABLE					
TP	VOLT LVL		TST	MACH	ERROR INDICATIONS/REMARKS
	RUN	FAIL	PRG	TYPE	

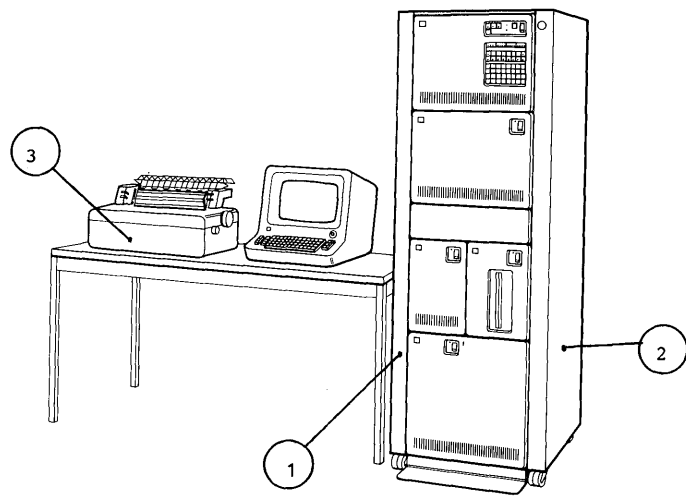


FIGURE 1

6 continued

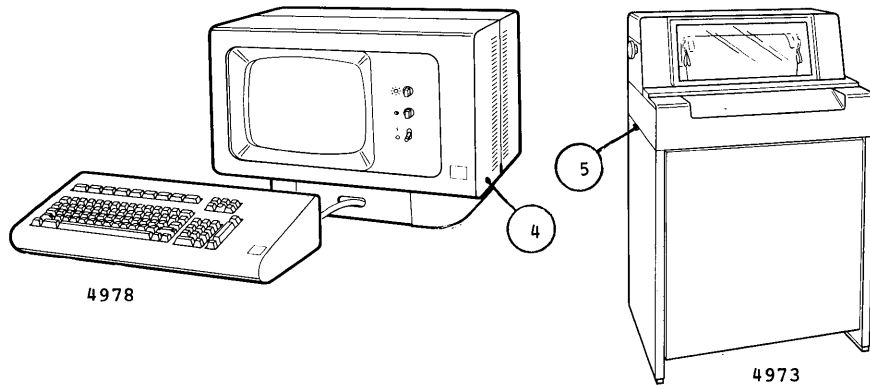


FIGURE 2A

ESD TEST POINTS FOR NON-IBM RACK SYSTEMS

MACH TYPE	T.P.
4955/53	A
4959	B
4962	E
4964	D
4973	5
4974	3
4978	4
4979	NONE
4982	C
4987	F

NOTE: Remove plastic front cover.
All test points are the front lower frame rail of each machine type.

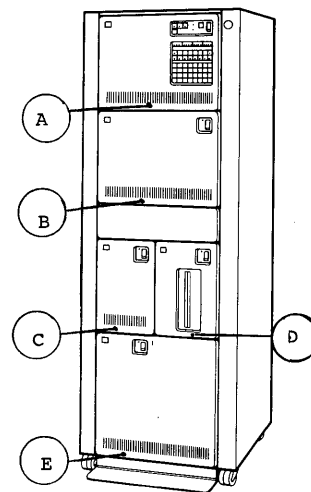


FIGURE 2B

EMC FIGURE OF MERIT TABLE					
TP	VOLT	LVL	TST	MACH	ERROR INDICATIONS/REMARKS
	RUN	FAIL	PRG	TYPE	
1.	125	225	3410	4997	FILE DATA CHECKS SEEK ERRORS ON 4962
1.	750	850	3410	4997	DISKETTE AM, CURSER ON 4979 JUMPS 4962 OFF
2.	750	900	3410	4997	4979 LOST CURSER-DISKETTE DATA CHECKS
3.	800	950	3410	4974	4979 CURSER JUMPS
4.	750	800	3410	4973	PRINTER HAMMER CHECKS
					FOR REFERENCE ONLY
					TEST PROGRAM 3410 IS SYSTEM TEST

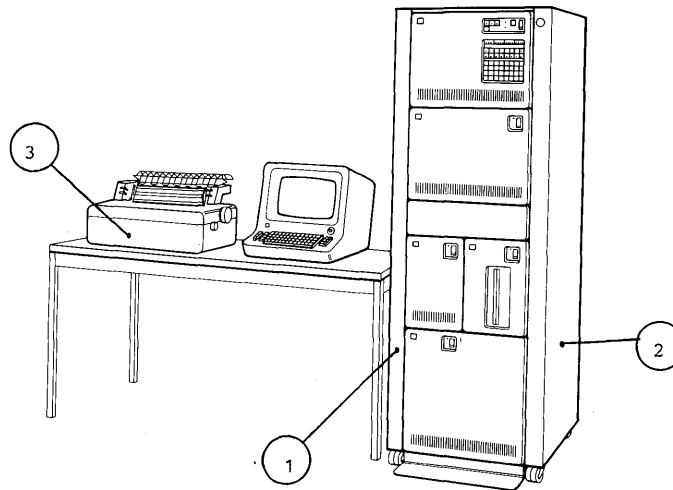


FIGURE 3

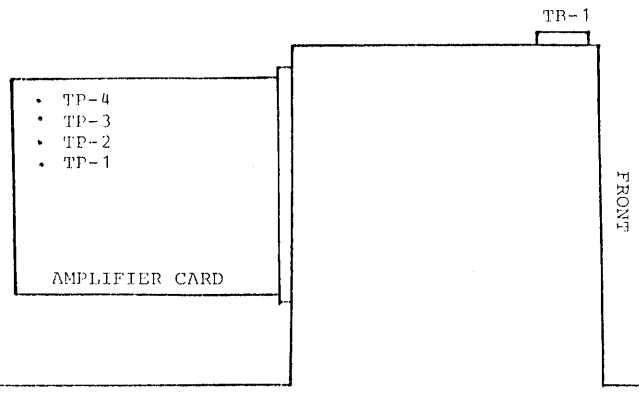
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4991 DIAGNOSTIC AID

After verifying 48VDC on TB1-8, (if no 48VDC at this point refer the problem to the customer) the test points on the amplifier card P/N 5863348 can be used to determine which FRU is failing if the MAPs and/or FRU replacement fails. The test points are at each stage of amplification and progress from TP1 thru TP4 out TB1-7 to the customer interface.

The test points are labeled as follows:

Facing the left side of the badge reader.



TP1 Should measure between 5VDC and 5.9VDC with no badge being read. If incorrect voltage suspect amplifier card or regulator card. If pulsing suspect the feed thru assembly.

When reading a badge pulses of 100mv should occur. If not, the problem is either the feed thru assembly or read head assembly.

TP2 Should measure 6VDC with no badge being read. If not at 6VDC suspect the regulator card. If pulsing suspect the amplifier card. When reading a badge the pulses should be 9VDC, from 2VDC to 11VDC. If no pulses suspect the amplifier card.

TP3 Should measure either 2VDC or 11VDC with no badge being read. Either level is correct. If not at either level suspect the regulator card. When reading a badge the pulses should be the same as TP2. If not, suspect the amplifier card.

TP4 Should measure 1.2 to 1.4 VDC with no badge being read and should pulse to ground when reading a badge. If neither condition is correct or if pulses occur when no badge is being read, suspect the amplifier card.

TB1-7 This point should be at ground with no badge being read and should pulse to 48VDC when reading a badge. If neither condition is true or if pulses occur when no badge is being read suspect the amplifier card. If all conditions at TB1-7 are okay, the badge reader is functioning correctly.

S/A #8 STARTS NEW S/A FORMAT

395/06-01-79

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8

SERIES/1 CARD PART NUMBERS

Series/1

In the list below, you will find part numbers of cards for Series/1. They are grouped by feature code, processor or card name and part number. Part number is oldest to newest.

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
	4952 CPU	6841440, 6841612
	4953 Processor	8527642, 6841453, 6839454
6315	16K Storage	4413259, 4413260
6316	32K Storage	4410718, 4412736
	4955 ROS	6826458, 6827280, 6837339
	4955 Address	4413299, 4413321, 6840922
	4955 Data	4413164, 4413215, 4413794
6335	Translator	CANCELLED 449/08-21-81 4413216
	Address Expansion	Refer to S/A #9 3333777
3920	4955 Floating Pt.	4413759
6325	4955 16K Storage	8234799
6326	4955 32K Storage	8238225
6327	4955 64K Storage	8253659
1200	370 Attach.	6844238
1205	4966 Attach.	6840515, 6841959
1210	5250 Attach. Adapt.	6844824
1210	5250 Attach. Control	6840886
1215	4969 Attach.	6844615, 6844616, 6845050
1300	PCS Attach. Control	6838163, 6839661
1300	PCS Attach. Channel	6826514, 6840606
1560	Int. DI/DO Attach.	4413289
1565	Channel Repower	4411841
1595	Socket Adaptor	1634500

8 continued

SERIES 1

8 continued

SERIES/1 CARD PART NUMBERS

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
1610	S/S SN/LN	6840559, 6841911
2010	12V Comm. Power	6840803
2074	BSCA 9.6K	6826143, 6840562
2075	BSCA 56K	8327259, 6826145, 6840561
2090	SDLC SN/LN	6826139, 6840564
2091	S/S 8 Line Control	6826147, 6840560
2092	S/S 4 Line Adaptor	4413149, 4413245
2093	BSCA 8 Line Control	6841988
2094	BSCA 4 Line Adaptor	4413247
2095	Program 8 Line Control	6840558
2096	Program 4 Line Adaptor	6841374
3580	4962 Attach.	4410723, 4411694
3581	4964 Attach.	4413828, 6826174
3585	4979 Attach.	4413921, 8326918
3590	4963 Attach.	6838056, 6839659
4713	Auto Call	1632933
5430	4982 Attach/OEM	4411059
5620	4974 Attach.	4413168, 4413958
5630	4973 Attach.	6825312, 6840387
7840	Timer	4413217
7850	TTY Attach.	4413264, 4414864, 6841065
7900	2 Channel SW	6839262, 6842480
D02038	4978 Attach.	8326924, 6843002
D02045	S/1-Sys7 Attach.	4413871
D02118	GPIB	6839683, 6841583

8 continued

8 continued

SERIES/1 CARD PART NUMBERS

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
D02198	BSCA COD Disable	8327202
D02236	Single Stop/Bit ACCA	6841912
D02312	5230 DCI Scheduler	6844673
D02312	5230 Loop	6844610
D02312	Trans 115V	6840721
D02312	Trans 220V	6840722

<u>Feature Code</u>	<u>Card Name</u>	<u>Part Number</u>
	4969 Adaptor	6841993, 6842639
	4974 Receiver	1631329
	4982 Terminator	6825360
1060	4982 ADC	4410274
1065	4982 A.O.	1633793
1070	4982 Mult-Range Amp.	4412768, 4413762
3525	4982 DI/PI, N-Isolated	4413136
3532	4982 DI/PI, Isolated	4412774
3535	4982 D.O., N-Isolated	1633795
4940	4982 RR MPX	1632091
4950	4982 SS MPX	1633405
D02070	4982 A.O. 14 Bit	6825486
D02071	4982 A.I. 14 Bit	6826232
D02180	4982 D.I. 32 Pt.	8327122
D02182	4982 D.O. 16 Pt.	8327130
D02183	4982 D.O. 32 Pt.	8327126

8 continued

SERIES 1

8 continued

SERIES/1 CARD PART NUMBERS

<u>Feature Code</u>	<u>Card Name</u>	<u>Part Number</u>
	4987 SP. TTY	6846241
	4987 Lang. GRP	4413977
	4987 38LS SYNC	8326888
	4987 DDSA	8527032
3600	4987 Scanner	6825362, 6845048
4700	4987 EIA 1/2 Dup.	4413912
4701	4987 EIA Full Dup.	4413916
4704	4987 TTY	4411574
4706	4987 38LS Async.	8326886
4709	4987 Async. Loc. Attach.	4411578
4710	4987 Sync. Loc. Attach.	4411580
4713	4987 Auto Call	4413914
D02049	4987 Modem SN	1756001
D02050	4987 LL SNBU	1756003
D02051	4987 Modem L.L.	1756005
D02337	4987 Audio Response	6839409
	4990 HH Console CD	8333669
	4999 Console CD	1637797
	4999 Cont. CD	4410216
	4999 Battery S.U.	1637750
	4999 Invert. Control	1637875

428/10-17-80

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In the list below, you will find part numbers of cards for Series/1. They are grouped by feature code, processor or card name, and part number. Part number is oldest to newest.

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
	4952 Processor	6841129, 6841440, 6841612, 6846663
	4952/65 Diskette Attach	6081857, 6081874
6306	4952 32K Storage Module	5122193
	4953 Processor	4411098, 4411597, 4411843 1632936, 4413853, 4414821 8327642, 6841453, 6839454
6315	16K Storage	4413259, 4413260
6316	32K Storage	1635627, 4410718, 4412736
	4955 ROS	4411760, 8326894, 8327489, 6826458, 6827280, 6837339
	4955F ROS	8257904
	4955 Address	4413299, 4413321, 6840922
	4955 Data	4413164, 4413215, 4413794
	4955E Address Expansion	4413956, 8333777
3920	4955 Floating Point	4411911, 4411912, 4413759
6325	4955 16K Storage	8234799
6326	4955 32K Storage	8238225
6327	4955 64K Storage	8253659
6328	4955F 128K Storage	4468177
6335	Translator	1633920, 4413216
	4955F Translator	4498801
1200	370 Attach	6839406, 6839565, 6842481, 6844238, 4469031, 6031227

continued

SERIES 1

9 continued

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
1205	4966 Attach	6840515, 6841959, 6845052, 6846498, 6846976, 6846980
1210	5250 Attach Adapt.	6838408, 6838851, 6844824
1210	5250 Attach Control	6827095, 6838849, 6840886
1215	4969 Attach	6844615, 6844616, 6845050
1300	PCS Attach Control	8326868, 8327260, 8327456, 8333815, 6826159, 6838163, 6839661
1300	PCS Attach Channel	8326869, 6826157, 6826209, 6826156, 6826514, 6840606, 6847076
1310	Multiport	6844057, 8257906, 6172408
1400	Loc. Comm. Control	4498424, 8258055, 4499813
1560	Int. DI/DO Attach	1635646, 4413174, 4413289
1565	Channel Repower	1635634, 4410759, 4411841
1595	Socket Adaptor	1634500
1610	S/S Sn. Ln.	4413330, 4411744, 6826141, 6838703, 6839110, 6840559, 6841911
2010	12V Comm. Power	4412932, 6840803, 6842525
2074	BSCA 9.6K	4413329, 4411740, 8327258, 6826143, 6840562, 6844956
2075	BSCA 56K	4411834, 4411742, 8327259, 6826145, 6840561, 6844942
2080	Sync Com Sn. Ln. Control	6841545, 6042131, 6023349
2090	SDLC Sn. Ln.	1634060, 1635595, 4411022, 8334046, 6826139, 6840564
2091	S/S 8 Line Control	4410726, 4411886, 6826147, 6840560, 6841989, 4498900
2092	S/S 4 Line Adaptor	1634061, 4413149, 4413245

continued

9 continued

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
2093	BSCA 8 Line Control	4413396, 4411884, 4411852, 8327156, 6826149, 6840563, 6841988, 4498901
2094	BSCA 4 Line Adaptor	1634004, 1634062, 4413247
2095	Program 8 Line Control	6825396, 6840558, 6842494, 4498902
2096	Program 4 Line Adaptor	6825388, 6841374, 6842499, 6846708, 6846874
3580	4962 Attach	4411070, 4410723, 4411694
3581	4964 Attach	4413240, 4413298, 4413828, 6826174, 6844728
3585	4979 Attach	1635707, 4413256, 4411535, 4413921, 8326918
3590	4963 Attach	4411930, 8327208, 6826951, 6837390, 6838056, 6839659
4713	Auto Call	1632933
5430	4982 Attach OEM	4411059
5620	4974 Attach	1633967, 4413168, 4413958
5630	4973 Attach	4413134, 4411775, 6825312, 6840387
7840	Timer	1633921, 1635645, 4413217
7850	TTY Attach	1631337, 4413262, 4414864, 6841065
7900	2 Channel Sw.	4413788, 8327700, 6826201, 6839262, 6842480
D02038	4978 Attach	4411729, 4411932, 4413882, 8326924, 6838710, 6843002
D02045	S/1 - Sys/7 Attach	4411761, 4413871
D02118	GPIB	4413782, 6837978, 6839683, 6841583, 6846973, 6030909

continued

SERIES 1

9 continued

<u>Feature Code</u>	<u>Processor Card Name</u>	<u>Part Number</u>
D02198	BSCA COD Disable	8327202
D02236	Single Stop/Bit ACCA	6839111, 6840565, 6841912
D02312	5230 DCI Scheduler	6827008, 6840717, 6842497, 6844673
	5230 Loop	6827009, 6840719, 6841371, 6842501, 6844610
	115V Trans.	6840721
	220V Trans.	6840722
D02349	Direct BSC Adaptor	6844733, 6846493

<u>Feature Code</u>	<u>Card/Part Name</u>	<u>Part Number</u>
	300W Power Supply	1637621
	400W Power Supply	4413630
	4955F Power Supply	6844100
	4952A Power Supply Front	6840557
	4952A Power Supply Rear	6826500
	4952C Power Supply	6846780
	4962 D-W1A2 Fixed Hd	8250195
	4962 D-W1A5	8219260
	4962 D-W1B3	8219255
	4962 A-A1C2	4201728
	4962 A-A1D2	4201730
	4962 A-A1G2, Models 1/1F/2/2F	8528194
	4962 A-A1G2, All Models	8562903
	4962 A-A1H2	8526353

continued

9 continued

<u>Feature Code</u>	<u>Card/Part Name</u>	<u>Part Number</u>
	4962 A-A1J2	8219247
	4962 A-A1J4, Models 1/1F/2/2F	8250455
	4962 A-A1J4, All Models	8255177
	4962 A-A1K4	5864396
	4963 A-A1B2	8230320, 8230316, 8230324
	4963 A-A1C2	5830465, 5148713, 5148653
	4963 A-A1D2	5830294, 5830575, 5147537
	4963 A-A1E2	8230248, 8230315
	4963 A-A1F2	8230318, 8230317, 8230323
	4963 Terminator Card	5861353, 5861357
	4963 A2C2	5643156, 5643153, 5643132
	4963 A2D2	5643149, 5643151, 5643130
	4964 VFO Card	8526200
	4964 FC Card	8527124, 8527157
	4966 VFO Card	2462692
	4966 FC Card	5563733, 5563735
	4969 Adaptor	6841993, 6842639, 4468367
	4973 Receiver, Mod I Mod II	6843338 6843340
	4974 Receiver	1631329
	4982 Terminator	4411518, 4411610, 6825360
1060	4982 ADC	1633823, 4410274
1065	4982 A.O.	1637975, 1633793
1070	4982 Multi-Range Amp	4410231, 4410267, 4412768 4413762

continued

SERIES 1

9 continued

<u>Feature Code</u>	<u>Card/Part Name</u>	<u>Part Number</u>
3525	4982 DI/PI Non-Isolated	4413136, 4413908
3532	4982 DI/PI Isolated	4413394, 4412774
3535	4982 D.O. Non-Isolated	1637973, 1633795
4940	4982 R.R. MPX	1632091
4950	4982 S.S. MPX	1632089, 1633405
D02070	4982 A.O. 14 Bit	8333647, 6826229, 6825486
D02071	4982 A.I. 14 Bit	8327358, 6826232, 4498783
D02180	4982 D.I. 32 Pt.	8327122
D02182	4982 D.O. 16 Pt.	8327130
D02183	4982 D.O. 32 Pt.	8327126
	4987 Power Supply	8326949
	4987 Back Panel	4411566, 4413918, 8327161
	4987 Special TTY	6840528, 6841961, 6846241
	4987 Lang. Grp.	4413977
	4987 38LS Sync	4411590, 8326888
	4987 DDSA	8527032
3600	4987 Scanner	4413997, 4414852, 8327476, 8333805, 6825362, 6845048
4700	4987 EIA ½ Dup.	4411572, 4413912
4701	4987 EIA Full Dup.	4411584, 4413916
4704	4987 TTY Current Int.	4411574
4706	4987 38LS Async.	4411586, 8326886
4709	4987 Async. Loc. Att.	4411578
4710	4987 Sync. Loc. Att.	4411580
4713	4987 Auto Call	4411582, 4413914

continued

9 continued

<u>Feature Code</u>	<u>Card/Part Name</u>	<u>Part Number</u>
D02049	4987 Modem SN	1644701, 1756001, 8564508
D02050	4987 LL SNBU	1644703, 1756003, 8564509
D02051	4987 Modem LL	1644769, 1756005, 8564510
D02337	4987 Audio Response	6839409
	4990 H.H. Console CD	4411083, 8333669
	4995 Board	1637543
	4995 Processor	6846663
	4995 32K Module	5122193
	4995 Diskette Attach	6847170
	4995 Printer Attach	4469148
	4995 MDA	4498635
	4995 Disk Attach	4411694
	4995 Modem/Carrier	6840983
	4995/4962 EH Disk (See 4962 A1 Board)	
	4995/4962 DE	5144681
	4995 Printer A1A1	5863345
	4995 Printer A1B1	6847232
	4995 Printer A1B3	6843322
	4995 PS Board	6845572
	4995/31SD FC	4240724
	4999 Console CD	1637797
	4999 Cont. CD	4410216
	4999 Battery Backup	1637750
	4999 Invert. Control	1637875

449/08-21-81

CEM Engineering Change Announcements Group 869

4110

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
20	E	33		NONE	ALL	857518	7941621				All 4110 without EC 857518	1.5	1.2
							7941622				All 4110 dust separators without EC 857518	1.0	0.8
							7941645				All 4110 keyboards without EC 857518	0.3	0.1
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
B/M 7941621 correct potential safety problem by replacing fuse holder and install caution label.													
B/M 7941622 correct potential safety problem by replacing fuse holder.													
B/M 7941645 serialize SDA keyboards for FSD identification/location purpose only.													
458/12-23-81													
2													
20	E	33		NONE	ALL	857518	7941646				All dust separators without EC 857518	.4	.2
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Serialize SDA Dust Separators for FSD identification/location purposes only.													
458/12-23-81													
3													
										For record purpose only			
458/12-23-81													
4													
										For record purpose only			
458/12-23-81													
5													
20	E	33		None		857518	7941643			4110 Display/processor	4110 DPU S/N 00001 - 00240	0.6	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: INSTALL CORRECT LABELS ON TOP OF EXISTING MARKINGS.													
458/12-23-81													

CEM Engineering Change Announcements Group 869

4469

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
20	E	33		NONE	ALL	857518	7941623			Magnetic tape unit	All 4469 without E/C 857518	1.0	.3
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
Correct potential safety problem by replacing with MTU Fuseholder F1.											458/12-23-81		
2													
20	E	33		None		857518	7941684			4469 Mag Tape Unit	4469 MTU S/N 00001 - 00036	0.7	0.3
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
ALTER COLOR OF GREEN/YELLOW WIRE TO BLACK											458/12-23-81		
3													
20	E	33		None		857518	7941644			4469 Mag Tape Unit	4469 MTU S/N 00001 - 00036	0.4	0.2
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
INSTALL CORRECT LABELS ON TOP OF EXISTING MARKINGS.											458/12-23-81		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4470

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

1													
20	E	33		NONE	ALL	857518	7941624			Paper tape punch	All 4470 without EC 857518	.3	0.0

MSIR CODE _____

Parts Source and Anticipated Availability Date

DETAIL: Correct potential safety problem by attaching caution labels.

458/12-23-81

CEM Engineering Change Announcements Group 44

4952

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

1													
27	A	33		NONE		375158	6840608	4412522		4978 ATTACHMENT	ALL CARD FILES WITH B/M 4412522 AND WITHOUT EC 375158	1.0	0.7
MSIR CODE <u>C</u>						Parts Source and Anticipated Availability Date							

DETAIL:

TO INSTALL IMPROVED 4978 FEATURE CARD P/N 6838710. THIS CORRECTS A 4978 TO SERIES/1 DATA TRANSMISSION PROBLEM THAT OCCURS WHEN THE LAST POSITION ON A LINE IS PROTECTED AND YOU ARE TRANSMITTING THE LAST PART OF THE LINE TO THE SERIES/1. THE LAST BYTE BEFORE THE PROTECTED POSITION DOES NOT GET SENT IF IT IS BEING SENT TO AN EVEN ADDRESS IN THE SERIES/1.

CARD REPLACEMENT DATA: OLD P/N NEW P/N
 6836924 6838710
 4413882

414/03-21-80

2													
22	E	33		NONE		375420	6840781	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 OR 755536 OR REA 27-12260	1.0	0.7
							6840885	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 AND WITH EC 755536 OR WITH REA 27-12260		
MSIR CODE <u>D</u>													

DETAIL:

B/M 6840781

INSTALLS IMPROVED 4973 ATTACHMENT CARD P/N 6840387

1. PREVENTS UNDETECTED SYNC CHECKS.
2. PREVENTS CONTINUOUS BELT RUN CONDITION RESULTING FROM CERTAIN SYNC CHECKS.
3. PREVENTS UNDETECTED FORMS CHECKS.

CARD REPLACEMENT DATA: OLD P/N NEW P/N
 6825312 6840387
 4411775

B/M 6840885

ADDS A LABEL TO CARD P/N 6825312 TO CHANGE P/N TO 6840387. CARD P/N 6825312 IS FUNCTIONALLY EQUIVALENT TO CARD P/N 6840387.

414/03-21-80

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
27	A	33		NONE	ALL	375147	6840511 6840512	8327550 8327558		SHIP GROUP MOD A00 SHIP GROUP MOD B00	ALL 4952'S WITHOUT EC 375147	1.0	1.0
					SEE CONCURRENT:		6840500 6840501 6840502 6840503 6840507 6840508 6840509	1634791 1637561 1637582 1637586 4413769 6826403 8327706		DISK ATTACH TIMER START/STOP 1 LN ADAPT ASYNC COMM 8 LN CTRL TWO CHANNEL SWITCH S/S SINGLE STOP BIT GPIB ADAPTER		0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0

MSIR CODE C

Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED ON YOUR SYSTEM.

DETAIL:

PURPOSE: PROVIDE 4952 SUPPORT FOR ALL EXISTING S/1 FEATURES. UPDATE BASIC S/1 CONTROL PROGRAM AND CONFIGURATION PROGRAMS JANUARY, 1979 ANNOUNCEMENTS. CORRECT TIMING PROBLEMS IN TWO CHANNEL SWITCH DIAGNOSTICS. CORRECTS DIAGNOSTIC PROBLEMS WITH TIMER TEST FOR 4952.

PREREQUISITE: EC 75551 ECA.

CHECKPOINT: DIAGNOSTIC DISKETTE PN 1635001 AT EC 75551 EQUALS PREREQ INSTALLED.

414/03-21-80

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	Feature B/M #	Seq #	Description of Feature	Machines Affected	Man	Sys
27	A	33		003	ALL	375401	6841450 6841451	8327550 8327558		SHIP GROUP MOD A00 SHIP GROUP MOD B00	ALL 4952'S WITHOUT EC 375401	1.0	1.0
					SEE CONCURRENT:		6841444 6841445 6841446 6841446 6841446	1637583 1637563 1637584 1637588 8327201		BSCA 1 LN ADAP MD SPD FLOATING POINT BSCA 1 LN ADAP HI SPD BSCA 8 LN CONTROLLER BSC COD DISABLE RECG		0.3 0.3 0.3 0.3 0.3	0.0 0.0 0.0 0.0 0.0

MSIR CODE C

Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED IN 4952 PROCESSORS.

DETAIL:

PURPOSE: TO UPDATE DIAGNOSTIC DISKETTE (PN 1635001) AND SUPPORTING DOCUMENTATION.

PREREQUISITE: ECA 003 EC 375147

CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635001) AT EC 375147 OR HIGHER EQUALS PREREQUISITE INSTALLED.

414/03-21-80

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	Feature B/M #	Seq #	Description of Feature	Machines Affected	Man	Sys
27	B	33		NONE	ALL	375428	6839725	8327550 8327558		SHIP GROUP MOD 00A SHIP GROUP MOD 00B	ALL 4952'S WITHOUT EC 375428	1.0	0.7

DETAIL:

PURPOSE: TO INSTALL IMPROVED SYSTEM TEST.

PREREQ: ECA 0 EC 75551 (CHECKPOINT, DISKETTE PN 1635001).

DESCRIPTION: SUPPORT 4952/63/66 AND PROGRAMMABLE MULTI-LINE ACCA ATTACHMENT. IT ALSO PROVIDES IMPROVED FUNCTION OF EXISTING TEST MODULES.

CHECKPOINT: DISKETTE PN 1635003 AT EC 375428 EQUALS THIS EC INSTALLED.

NOTE: THIS IS A COMPOSITE FBM, INSTALLING BOTH EC 375428 AND EC 755448.

414/03-21-80

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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4952

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
29													
27	E	33		003		375333	6841114	4413790		SHIP GRP D02045	ALL 4952 W/ RPO 2045, B/M 4413790 and W/O EC375333	1.0	1.0
						MSIR CODE <u>D</u>				Parts Source and Anticipated Availability Date			
DETAIL:													
PURPOSE: REPLACE DIAGNOSTIC DISKETTE P/N 4413541 FOR S/1 TO S/7 LOCAL ATTACHMENT.													
UPDATE MAINTENANCE DOCUMENTATION													
PREREQUISITES EC 375147 - INSTALL IMPROVED DIAGNOSTIC DISKETTE P/N 1635001													
												432/12-19-80	
30													
27	A	33		NONE		375664	6843308	1637588		BSCA 8 LN CONTROLLER	ALL WITH B/M 1637588 W/O EC 375664	1.0	0.7
						MSIR CODE _____				Parts Source and Anticipated Availability Date			
DETAIL:													
INSTALLS IMPROVED BSCA 8 LINE CONTROL FEATURE CARD. CORRECTS LOSS OF CONTROLLER END INTERRUPT.													
NEW P/N: 6841988 OLD P/N: 6840563													
												432/12-19-80	
31													
27	E	33		34	ALL	375694	6844595	6826371		SHIP GRP. 5250	ALL 4952's 4953's, 4955's and 4959's WITH FEA B/M 6826371 and W/O E/C 375694	0.5	0.5
						MSIR CODE _____				Parts Source and Anticipated Availability Date			
DETAIL:													
PURPOSE: TO UPDATE THE 5250, INFORMATION DISPLAY, ATTACHMENT PACKAGE.													
DESCRIPTION: TO REVISE AND UPDATE THE DIAGNOSTIC MAPS.													
												432/12-19-80	
32													
27	A	33		003		375397	6844559	6827113		AUTOLOADER DISKETTE	All With B/M 6827113 W/O EC 375397	0.5	0.5
						MSIR CODE _____				Parts Source and Anticipated Availability Date			
DETAIL:													
REPLACES DIAGNOSTIC DISKETTE 6838000 WITH NEW DISKETTE.													
UPDATES MAPS AND DIAGNOSTICS FOR 4966.													
												432/12-19-80	
33													
27	A	33		003 005		375656	6842602	6827113		Auto Loader Diskette	All with B/M 6827113 w/o EC 375656 or REA 27-12322	1.0	0.7
						MSIR CODE _____				Parts Source and Anticipated Availability Date			
Companion or Concurrent: None													
DETAIL:													
Installs improved diskette magazine attachment card.													
Corrects diskette formatting incompatibility between 3741 and 4966.													
						New P/N 6841959	Old P/N 6839345 6839724 6840513 6840515						
												432/12-19-80	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
34													
27	E	33		28	All	375823	6843335	6826371		Ship Grp.	All 4952's 4953's, 4955's and 4959's with FTR B/M 6826371 and W/O EC 375823	0.3	0.3
			MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: To update all installed systems to the level required to support B/M 8327254, 5250 information display attached.</p> <p>Description: This B/M installs a control loader diskette and updates the machine history to reflect EC 375823 as being installed.</p>													
432/12-19-80													
35													
27	A	33		none	All	375809	6844617	4412522		4978 Attach Improved Feat. card	All 4952's 4953's, 4955's 4959's with B/M 4412522 and w/o EC 375809	1.0	0.7
			MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose and Description: To install an improved 4978 feature card P/N 6843002. This corrects a 4978 to Series/1 data transmission problem that occurs when the last position on a line is protected and you are transmitting the last part of the line to the Series/1. The last BYTE before the protected position does not get sent if it is being sent to an even address in the Series/1.</p>													
432/12-19-80													
36													
27	E	33				876814						0.0	0.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
<p>DETAIL: This EC is for sequence purposes only.</p>													
432/12-19-80													
37													
27	E	33		None		386846 386846	6844148 6844149	8327548 8327549		60 Hz Power 50 Hz Power	All 4952A W/O EC 386846 or REA27-12386	1.0	1.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
<p>DETAIL: Prevents circuit breaker from tripping on power down.</p>													
432/12-19-80													
38													
27		33		None		876817				F.I.B. for RPQ DO2198		0.0	0.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
<p>DETAIL: This EC is for sequence purposes only.</p>													
436/02-20-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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4952

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
47 continued														
							1637578				6845418			
							1637579				6845419			
							1637580				6845420			
							1637581				6845421			
Update the maintenance package with limited vocabulary and convert program listings to microfiche.												436/02-20-81		
48														
27	E	33		008		877036	6846261	4412759		4963 Attachment	All with B/M 4412759 w/o EC877036	1.0	0.5	
MSIR CODE _____												Parts Source and Anticipated Availability Date		
DETAIL: This EC updates the 4963 diagnostics and releases program 7AF5 which is a 4963 Initializer.													436/02-20-81	
49														
27	A	33		008	All	876895	6846996	8327550		Ship Group Mod A00	All with	0.5	0.5	
				See Concurrent			6846996	8327558		Ship Group Mod B00	B/M 6846996	0.5	0.5	
							6846997	1637583	or	BSCA MED SPD, Multi-line	And w/o EC 876895	0.2	0.2	
								1637584				0.2	0.2	
							6846998	1637585	or	France only, BSCA		0.2	0.2	
								6844943		HI SPD or SDLC		0.2	0.2	
							6846999	1637586		ACCA Multi-line		0.2	0.2	
							6847000	1637588	or	BSCA Multi-line or		0.2	0.2	
								8327201		RPQ D02198		0.2	0.2	
							6847001	6826371		5250 Attachment		0.2	0.2	
							6847002	6844227		Multi-line ASC II		0.2	0.2	
MSIR CODE _____												Parts Source and Anticipated Availability Date		
CONCURRENT: The following FB/M's are to be installed if features are on your machine.														
DETAIL: PURPOSE: Pickup high speed SDLC, pick up REA's 27-12480 and 27-20723, correct single-line BSC half rate.														
DESCRIPTION: Correct multi-line controller for device address entry on manual MAPS.													436/02-20-81	
50														
27	A	33		none		876993	6846063	1637583		BSCA 1 Line Adap Med SPD	All 4952's with FRM 1637583 w/o EC876993	1.0	.7	
MSIR CODE _____												Parts Source and Anticipated Availability Date		
DETAIL: Purpose: 1. To support RPS when using delayed processing. 2. To support certain modems when using "Enable with Timing" command.														
Prerequisite: EC578625													436/02-20-81	
51														
27	A	33		none		375662	6846908	4412759		4963 Attachment	All with B/M 4412759 w/o EC375662	0.5	0.0	
MSIR CODE _____												Parts Source and Anticipated Availability Date		
DETAIL: Updates the MLD Maintenance Documentation for the 4963.													436/02-20-81	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
52														
27	E	33		023		864534	6846751	6841121		DATA ENTRY LOOP D02312	ALL WITH B/M 6841121 W/O EC 864534	1.0	1.0	
MSIR CODE _____						COMPANION OR CONCURRENT: NONE							Parts Source and Anticipated Availability Date	
DETAIL: UPDATE CONTROL STORE DISKETTE.											436/02-20-81			
53														
27	A	33		none		375613	6844590	8327551		Elec/Mech-50-60HZ	All 4952's with FB/M 8327551, w/o REA27-12536 or EC375613	1.0	.7	
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date								
DETAIL: Purpose: To provide improved 4952 CPU card P/N 6841617.											436/02-20-81			
54														
27	E	33		none		877048	4468388	6827023		4969 Attachment	All w/o EC375474 and w/o EC877048	1.0	.7	
							6846482	6827023		4969 Attachment	All with EC375474 and w/o EC877048	1.0	.7	
MSIR CODE _____						Parts Source and Anticipated Availability Date								
DETAIL: To release a new attachment card which eliminates the need for patch diskette P/N 6844675. Old Attachment card P/N 6844213, 6844615. New attachment card P/N 6845050.														
To change card P/N 6844616 to P/N 6845050 by replacing ROS modules 'A' and 'B', which eliminates the need for patch diskette P/N 6844675.														
436/02-20-81														
55														
27	A	33	-	-	ALL	876784	4498702	8327750	-	Shp Grp Mod A	All 4952's W/O 876784	1.0	0.5	
							4498702	6840329	-	Shp Grp		1.0	0.5	
							4498703	8327758	-	Shp Grp Mod B		1.0	0.5	
					SEE CONCURRENT		4498711	1634791		4962 Attach		0.5	0.5	
							4498712	8327706		GPIB Adapt		0.5	0.5	
							4498713	1637561		Timer		0.5	0.5	
							4498714	1637582		ASC 1 Line		0.5	0.5	
						or	4498714	1637586		ASC 8 Line		0.5	0.5	
						or	4498714	6826403		ASC RPQ D02236		0.5	0.5	
							4498715	1637583		BSC 1 Line (Med SPD)		0.5	0.5	
						or	4498715	1637584		BSC 1 Line (Hi SPD)		0.5	0.5	
						or	4498715	1637588		BSC 8 Line		0.5	0.5	
						or	4498715	8327201		BSC RPQ D02198		0.5	0.5	
							4498716	1637585		SDLC		0.5	0.5	
							4498717	6827113		4966 Attach		0.5	0.5	
							4498719	4413769		TCS		0.5	0.0	
							4498720	1637846		4982 Basic		0.5	0.0	
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							Boca 09/80	
DETAIL: ←														
The following FB/MS are to be installed if features are on your machine.														
This is a composite of EC's 375147, 375147, 375401, 375384 and 876784 which have been released to reduce the number of "as required" changes which were required as prerequisites to the field installation of additional features.														
436/02-20-81														

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 44

4952

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
66													
27	E	33		49 54 63		869314	6847179	6827023		4969 Attachment	All 4952 w/o EC 869314 and with feature B/M 6827023.	0.5	0.5
				003	4969	869312							
				MSIR CODE _____				Parts Source and Anticipated Availability Date					
DETAIL: Provides odd length write capability and diagnostic capability to support the odd length.													
449/08-21-81													
67													
27	E	33		040 055		869519	6031228	8327308		Sys/370 Channel Attch	All with B/M 8327308 and w/o EC 869519	1.2	1.0
				MSIR CODE _____				Parts Source and Anticipated Availability Date					
DETAIL: CHECKPOINT: Diskette P/N 1635278 EC 864724 Diskette P/N 1635001 EC 876784 4953 Processor at EC 375597 (check EC history)													
PURPOSE: To install new S/1 - S/370 attachment card, P/N 4469031, to eliminate bus in parity errors after control unit busy.													
449/08-21-81													
68													
27	A	33		4969 003 058		869416	8529127	8327550 8327558 6840329		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00	ALL W/O EC 869416	0.5	0.5
				MSIR CODE _____				Parts Source and Anticipated Availability Date					
DETAIL: PREREQUISITES: EC 869312 - CHECKPOINT 4969 ADAPTER CARD P/N 4468367 EC 864529 - CHECKPOINT DISKETTE P/N 1635003													
PURPOSE: UPDATE SYSTEM TEST FOR 4969; CORRECT ERAP MODULE FOR RPS													
449/08-21-81													
69													
27	A	33		040		869549	6031244	6844236		8 line ship group RPQ DO 2350	ALL W/O EC 869549	0.5	0.2
				MSIR CODE _____				Parts Source and Anticipated Availability Date					
DETAIL: Prerequisites: EC 877041 checkpoint diskette p/n 1635278.													
Purpose: Correct problems with Ras package. This FB/M is a composite of E/C's 869549 and 864314.													
449/08-21-81													
70													
27	A	33		049		987700	6031142	8327550 8327558 6840329 6031143 6826371		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 5250 ATTACH	ALL W/O EC 987700	0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.0
				MSIR CODE _____				Parts Source and Anticipated Availability Date					
DETAIL: CONCURRENT: FB/M 6031143 FEATURE - 5250 ATTACH FTR B/M 6826371													
PURPOSE: SUPPORT 5225 PRINTER BY UPDATING DISKETTE P/N 1635002 AND INSTALLING MAINTENANCE DOCUMENTATION.													
449/08-21-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

4952

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
71													
27	E	33		70		869719	6846613	6826271		5250 ATTACH	ALL W/O EC 869719	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: PROVIDE CUSTOMER SUPPORT OF THE 5225 PRINTER TO CORRECT KATAKANA OPERATION. PROVIDE THE FUNCTION OF RETURNING THE CURSOR ADDRESS IN A PREVIOUSLY UNUSED FIELD OF SIE.												449/08-21-81	
72													
27	A	33		None		869536	6081866			All 4952 Ship groups	All 4952's	1.0	1.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Update system test to include support for local comm. controller, multifunction attach, 4965 and 4952 Mod C.												458/12-23-81	
73													
27	A	33				987681				Sequence purpose only. See Ec 864647 ECA 079		0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458/12-23-81	
74													
27	D	33		None		987853	4413538	8327551		Elec/Mech Final Assy.	All 4952A's with FBM 8327551 w/o EC 987853.	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: To prevent the 5 VDC cable at the console gate from shorting.												458/12-23-81	
75													
27	E	33		None		869618	6081727	6827023		4969 Mag Tape Attach	All 4969 Tape Attach's Feature B/M 6827023 and w/o EC 869618	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Update the maintenance documentation and logics.												458/12-23-81	
76													
27	A	33				869592				Sequence purposes only. See EC 864647 ECA 079		0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458/12-23-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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ECA 084 EC 988060 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto shipped from _____ Boca Raton _____

AVAILABLE _____ 5/15/82 _____

PURPOSE: To install improved asynchronous direct connect RS 422-A 8-line adapter (RPQ D02350) card.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES:			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844228	RS 422 8-line adapter	6023599	1.0	.7	6023599	058	864529	Sys test diskette P/N 1635003

COMPANION: None

CONCURRENT: None

DETAIL: Corrects problems which existed in reading individual data lines with communications console and diagnostic commands.

Prev P/N	New P/N
6844733	6042111
6846493	

ECA 085 EC 323266 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto shipped from _____ Boca Raton _____

AVAILABLE _____ _____

PURPOSE: Update diagnostic documentation and diskette for DCI, RPQ D02312/2313/2314.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES: EC 869417			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	RPQ D02312/2313/2314	6060748	1.0	0.5	6060748	065	869417	Map 81D0 at EC 869417

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation and replace diskette P/N 6839513 for DCI, RPQ D02312/2313/2314.

ECA 086 EC 994399 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update system test diskette.

PREREQUISITES: EC 869536

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic diagnostic ship group	6023613	1.0	1.0	6023613	072	869536	

COMPANION: None

CONCURRENT: None

- DETAIL:
1. Add alternate console control to acca single line and multiline.
 2. Add test module for X.21 interface.
 3. Update system test exercisors to correct misc. errors for: MFA, 4952C/4965 diskette, 4963.
 4. Update FRIEND modules to correct errors in: 4966 and 4962 routines.
 5. Update ERAP to accept new features and recognize ACCA console support.

ECA 087 EC 994400 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: To update CPU maintenance package to EC994400

PREREQUISITES: EC876784

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	6069668	0.5	0.5	6069668	055	876784	Diskette P/N 1635001, EC876784, or EC869422, or EC987889.

COMPANION: None

CONCURRENT: None

- DETAIL:
- Improved CPU diagnostics, add support for X.21, correct problems for 4955F SVT and correct problems in FOE5 for MFA.



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ECA 088 EC 864481 6-16-82

As required _____ SERVICE CODE 33 _____

Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: To provide improved 4952 CPU card, P/N 6846663

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4952	8327551 8327557	Elec/mech	6195821	1.0 1.0	0.7 0.7				

ECA 089 EC 323396 6-16-82

As required _____ SERVICE CODE 33 _____

Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update 4963 maintenance documentation.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4412759	4963 Attachment	6042267	0.5	0.0				

COMPANION: None

CONCURRENT: None

DETAIL: Update 4963 maps and logic pages.

ECA 090 EC 994418 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update RS422 (RPO D02350) attachment maintenance package.

PREREQUISITES: EC869549

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844236	8 LN ship group RPO D02350	6069304	0.6	0.5	6069304	069	869549	Diskette P/N 6842559

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation

ECA 091 EC 988042 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Replace diskette P/N 1635002 and update maintenance documentation.

PREREQUISITES: EC987700

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	5250 Attach	6060935	.5	.5	6060935-6061023	070	987700	Diskette P/N 1635002 at EC987700
All	6826371	5250 Attach	6060936	.5	.0				
All	1637582	ACCA S/L (F/C 1610)	6061016	.5	.0				
All	1637583	BSCA S/L (F/C 2074)	6061017	.5	.0				
All	1637584	BSCA S/L (F/C 2075)							
All	1637585	SDLC S/L (F/C 2090)	6061018	.5	.0				
All	1637586	ACCA M/L (F/C 2091)	6061019	.5	.0				
All	1637588	BSCA M/L (F/C 2093)	6061020	.5	.0				
All	6844227	PMLC M/L (F/C 2095)	6061021	.5	.0				
All	4468900	Custom Adapter (D02318)	6061022	.5	.0				
All	6846706	BSCA Direct (D02349)	6061023	.5	.0				

COMPANION: None

CONCURRENT:

DETAIL:

1. Update 5250 diagnostics.
2. Update 5250 maintenance package to include 5224 printer.
3. Update F/C 1610/2074/2075/2090/2091/2093/2095 RPO D02318/D02349 to eliminate processor dependency.

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ECA 092 EC 869711 6-16-82
 As required SERVICE CODE 33
 Order from Boca Raton
 AVAILABLE 4/25/82

PURPOSE: To install improved asynchronous communication 8-line control feature card.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES:			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	1637586	Asynchronous 8-line communication control	6060993	1.0	0.7	6060993	058	864529	Sys test diskette P/N 1635003

COMPANION: None

CONCURRENT: None

DETAIL: Corrects controller end and lost device reset problem.

Previous P/N	New P/N
6841989	4498900
6840560	
6826147	
4411886	

ECA 093 EC 987928 6-16-82
 Mandatory SERVICE CODE 33
 Auto shipped from Boca Raton
 AVAILABLE _____

PURPOSE: Reverse mounting brackets holding the modem card assembly. Update diagnostic diskette.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES: None			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826405 6847115	RPQ D02049 RPQ D02049 Canada	6060979	1.0	0.7				

COMPANION: None

CONCURRENT: None

DETAIL: Update diagnostic diskette P/N 6847128 is installed. The mounting brackets holding the modem card assembly will be reversed to prevent problems when plugging the card into card file.

ECA 094 EC 466924 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update maintenance package to unbundle 4987 data set cables from device attachment feature cards.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4411549	PCM Controller	6069694	0.5	0.0	6069694	019	375469	MAP E000 P/N 4414450

COMPANION: None

CONCURRENT: 4987 EC466924 ECA006

DETAIL: Add new feature codes for 4987 data set cables. Add check for cables and test only supported part numbers.

ECA 095 EC 987768 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

4/30/82

PURPOSE: To correct channel hang on host processor.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	B/M8327208	System 370/channel attach.	6069241	1.0	1.0	6069241	062	864724	Diskette P/N 1635278
							055	876784	Diskette P/N 1635001
								375597	EC history

COMPANION: None

CONCURRENT: None

DETAIL: Series/1 370/channel attach involved in short control unit busy sequence will hang host processor channel. This failure will occur when multiple control units are installed on a channel.

Previous P/N
6842481
6844238

New P/N
6069404

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ECA 096 EC 467032 6-16-82
Mandatory SERVICE CODE 33 Safety
Auto shipped from Boca Raton

AVAILABLE _____

PURPOSE: To install a plastic protective cap on the power supply chassis.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4952C	All	Basic elec/mech	6060826	1.3	1.0				

COMPANION: None

CONCURRENT: None

DETAIL: To install a plastic protective cap on the power supply chassis over the left hand side mounting hole. Prevents mounting screw from coming in contact with a printed circuit board conductor.

ECA 097 EC 323285 6-16-82
Mandatory SERVICE CODE 33
Auto shipped from Boca Raton

AVAILABLE _____

PURPOSE: Update Feature 1310 (MFA) maintenance package and diskettes.

PREREQUISITES: EC988013 (factory only)

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844066	Feature 1310, MFA	6061145	1.0	.8	6061145	100	466795	Diskette P/N 1635001

COMPANION: None

CONCURRENT: None

DETAIL: 1. This EC provides new MFA initial diskette and MFA diag. diskette P/N 6031185 and P/N 6031186.
2. This EC provides new MFA MAPs.

ECA 098 EC 323259 6-16-82

As required SERVICE CODE 33

Order from Boca Raton

AVAILABLE

PURPOSE: Update RPO D02312, DCI, Loop Driver Card.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	DCI, RPO D02312/ D02313/D02314	6060850	1.0	1.0				

COMPANION: None

CONCURRENT: None

DETAIL: This EC replaces Loop Driver Card P/N 6844610 with new P/N 6060849. This card fixes problems:

1. On loops which have a large amount of interactivity in process and also have loop resync's occurring, the possibility exists for the loop terminals being dropped into an off line mode.
2. The yellow light on the loop terminals can continue to show a transaction in progress if the operator terminates the transaction while a message is still present in the output buffer.

ECA 099 EC 467105 6-16-82

Mandatory SERVICE CODE 33

Auto shipped from Boca Raton

AVAILABLE 3/1/82

PURPOSE: Intermittent loss of power with thermal indications.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
A	S/N50000 or above	Elect mech. asm.	6060842	1.5	1.5				Air flow deflector install on K1 relay.

COMPANION: None

CONCURRENT: None

DETAIL: To install an air flow deflector to direct additional air across the temperature thermistor.

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ECA 100 EC 466795 6-16-82
As required SERVICE CODE 33
Order from Boca Raton
AVAILABLE 3/15/82

PURPOSE: To update CPU maintenance package

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	4772216	1.0	0.5	4772216	087	994400	Diskette P/N 1635001 at 994400
							086	994399	Diskette P/N 1635003 at 994399
						If applicable		864724	Diskette P/N 1635278 at 864724
								877036	Diskette P/N 6826999 at 877036
								869592	Diskette P/N 6847217 at 869592
								869448	Diskette P/N 6838871 at 869448

DETAIL: Improve diagnostic package for timers, integrated DI/DO, 4962, 4963, 4964, 4966, 4969, 4973, 4974, 4978, 4979, LCC, SDLC, BSC and TTY. Adds console support for MFA/7485.

ECA 101 EC 466957 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto shipped from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update the D02288 maintenance package.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6069145	Basic ship group	4772030	0.5	0.3		None		

COMPANION: None

CONCURRENT: None

DETAIL: Revise test units and MAPS to provide support for multiple types of terminals.

ECA 102 EC 326794 6-16-82

As required _____ SERVICE CODE 33 _____

Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Provide universal terminal support on the 5250 attachment, feature 1210.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	Feature 1210, 5250 attachment	4745831	.5	.5	4745831	091	988042	Diskette P/N 163002

COMPANION: None

CONCURRENT: None

DETAIL: This EC provides a new 5250 init. diskette, P/N 6826590 to include support for the 5291 terminal.

GEM Engineering Change Announcements Group 869

4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

1	27	E	33		NONE	B00 D00	578533	1636865	1637544 2706257		ELEC/MECH FINAL ASM B00 ELEC/MECH FINAL ASM D00	ALL MODELS 4953 B & D W/O EC 578533	2.0 2.0	2.0 2.0
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MSIR CODE D Parts Source and Anticipated Availability Date 10/15/77

DETAIL:

SAFETY

PURPOSE: TO ISOLATE POWER SUPPLY PRIMARY TRANSFORMER FROM FAN FAILURES AND VICE VERSA.

DESCRIPTION: SEPARATE CENTER WINDING TAPS OF POWER SUPPLY PRIMARY TRANSFORMER FROM CENTER WINDING TAPS OF FANS.

MACHINES AFFECTED CHECKPOINT: CHECK TO SEE IF THE ABOVE EC NUMBER IS STAMPED ON P/S EC LABEL. ALSO CHECK FOR ABSENCE OF A METAL JUMPER BETWEEN TB1-7 AND TB1-8.

356/10-21-77

2	27	E	33		NONE	ALL	576476	1636904	1637539 1637544 1637980 1637981 2706256 2706257		ELEC/MECH FINAL ASM A00 ELEC/MECH FINAL ASM B00 B/M SHIP GROUP 4953-A B/M SHIP GROUP 4953-B ELEC/MECH FINAL ASM C00 ELEC/MECH FINAL ASM D00	ALL 4953 WITH- OUT EC 576476	1.0	0.7
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MSIR CODE D

COMPANION OR CONCURRENT: NONE

THIS ECA IS CANCELLED
REFER TO ECA 038
431 12-5-80

Anticipated Availability Date Nov. 1977

DETAIL: PURPOSE: To install new 4953 Processor Card P/N 1632936.

PREREQUISITE: EC 578486 (NOTE: This EC is installed on all machines.)

CHECKPOINT: Processor Card P/N 1632936 equals EC 576476. (Also check machine history.)

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	27-11066	4411843 4411597 4411098	1632936

358/11-19-77

3	27	E	33		SEE NOTE	A	578573	1636857	1634791 1637980 1637981		B/M DISK ATTACH D/C 3850 SHIP GROUP FEATURE B/M 4953 A00 SHIP GROUP FEATURE B/M 4953 B00	ALL 4953 MDL W/O EC 578573	0.5	0.5
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MSIR CODE D

CONCURRENT: B/M 5572859, EC

THIS ECA IS CANCELLED
REFER TO ECA 17
431 12-5-80

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO REMOVE THE DISK ATTACHMENT CARD AND REPLACE IT WITH A COMPATIBLE LEVEL DISK ATTACHMENT CARD TO MATCH THE 4962 WHICH IS BEING UPDATED ON THE CONCURRENT B/M.

PREREQUISITE: EC 578486 (NOTE: THIS EC IS INSTALLED ON ALL MACHINES)

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	27-10782	4411070 4410722 1635772	4410723

358/11-19-77

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

4	27	E	33		NONE	ALL	387078	1636851	1637584		B/M BSCA 1 LN ADAP HI-SP DEVICE CODE 2075	ALL 4953 WITH B/M 1637584 WITHOUT EC 387078	1.0	0.7
				MSIR CODE <u>D</u>			Parts Source and Anticipated Availability Date							
<p>DETAIL:</p> <p>THIS ECA IS CANCELLED REFER TO ECA <u>046</u> 431 12 5-80</p> <p>PURPOSE: TO INSTALL IMPROVED BSCA FEATURE CARD P/N 4411742.</p> <p>CHECKPOINT: BSCA CARD P/N 4411742 EQUALS EC 387078 INSTALLED (ALSO CHECK MACHINE HISTORY).</p> <p>CARD REPLACEMENT DATA: <u>REA</u> <u>OLD P/N</u> <u>NEW P/N</u></p> <p style="margin-left: 150px;">4411834 4411742 4413328 4413234</p>												358/11-19-77		

5	27	E	33		NONE	A & B	576733	1636852	1637585		B/M SDLC SINGLE LN CNTRL DEVICE CODE 2090	ALL 4953 WITH B/M 1637585, AND WITHOUT EC 576733	1.0	0.7
				MSIR CODE <u>D</u>			Parts Source and Anticipated Availability Date							
<p>DETAIL:</p> <p>PURPOSE: TO INSTALL IMPROVED SDLC CARD P/N 4411022</p> <p>CHECKPOINT: SDLC CARD P/N 4411022 EQUALS EC 576733 (ALSO CHECK MACHINE HISTORY).</p> <p>CARD REPLACEMENT DATA: <u>REA</u> <u>OLD P/N</u> <u>NEW P/N</u></p> <p style="margin-left: 150px;">27-10892 1635595 4411022 1634060 1634007</p>												358/11-19-77		

6	27	E	33		NONE	ALL	578591	1636850	1637588		B/M BSCA 8 LINE CONTROL- LER DEVICE CODE 2093	ALL 4953 WITH B/M 1637588 WITHOUT EC 578591	1.0	0.7
				MSIR CODE <u>D</u>			Parts Source and Anticipated Availability Date							
<p>DETAIL:</p> <p>PURPOSE: TO INSTALL IMPROVED BSCA REFER TO ECA <u>048</u> 431 12 5 80</p> <p>CHECKPOINT: BSCA 8 LINE FEATURE CARD P/N 4411852 EQUALS EC 578591 INSTALLED (ALSO CHECK MACHINE HISTORY)</p> <p>CARD REPLACEMENT DATA: <u>REA</u> <u>OLD P/N</u> <u>NEW P/N</u></p> <p style="margin-left: 150px;">4411884 4411852 4413396 4413351</p>												358/11-19-77		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

7																								
27	E	33		NONE	ALL	578590	1636849	1637586			B/M ACCA 8 LINE CONTROL DEVICE CODE 2091	ALL 4953 WITH B/M 1637586 WITHOUT EC 578590	1.0	0.7										
MSIR CODE <u>D</u>																								
THIS ECA IS CANCELLED REFER TO ECA <u>047</u> 431 12 5 80																								
e and Anticipated Availability Date																								
DETAIL: PURPOSE: TO INSTALL IMPROVED ACCA 8 LINES FEATURE CARD P/N 4411886 CHECKPOINT: ACCA 8 LINE FEATURE CARD P/N 4411886 EQUALS EC 578590 INSTALLED (ALSO CHECK MACHINE HISTORY) CARD REPLACEMENT DATA:																								
<table border="0"> <tr> <td><u>REA</u></td> <td><u>OLD P/N</u></td> <td><u>NEW P/N</u></td> </tr> <tr> <td>27-11088</td> <td>4410726</td> <td>4411886</td> </tr> <tr> <td></td> <td>4413352</td> <td></td> </tr> <tr> <td></td> <td>1634006</td> <td></td> </tr> </table>													<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>	27-11088	4410726	4411886		4413352			1634006	
<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>																						
27-11088	4410726	4411886																						
	4413352																							
	1634006																							
358/11-19-77																								

8														
27	E	33		003 004 005 006 007	ALL	578625	1636905				4953 ALL MODELS	ALL 4953 W/O EC 578625	1.5	1.5
MSIR CODE <u>D</u>														
Parts Source and Anticipated Availability Date														
CONCURRENT: 4982 ECA 002, 4959 ECA 007 (EC 578625)														
DETAIL: PURPOSE: TO UPDATE THE SERIES/1 MAINTENANCE PACKAGE TO EC 578625. THIS IS A COMPOSITE B/M AND UPDATES MAINTENANCE DOCUMENTATIONS FOR 4953, 4978, 4964, TTY ATTACH., TIMER, 4997, POWER DISTRIBUTION, 300 WATT POWER SUPPLIES AND SYSTEM TEST/FRIEND TEST DOCUMENTATION. PREREQUISITES: ECA 003 - EC 578573 VERIFY 4962 ATTACH. CARD P/N 4410723 ECA 004 - EC 387078 VERIFY BSCA 1 LINE CARD P/N 4411742 ECA 005 - EC 576733 VERIFY SDLC 1 LINE CARD P/N 4411022 ECA 006 - EC 578591 VERIFY BSCA 8 LINE CARD P/N 4411852 ECA 007 - EC 578590 VERIFY ACCA 8 LINE CARD P/N 4411886 NOTE TO CE: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 578625 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAKDOWN OF THESE B/Ms.														
360/12-23-77														

9																								
27	E	33		NONE	ALL	578914	1636903	1637584			B/M BSCA 1 LINE FEATURE D/C 2075	ALL 4953 WITH-OUT EC 578914	1.0	0.7										
MSIR CODE <u>D</u>																								
Parts Source and Anticipated Availability Date																								
THIS ECA IS CANCELLED REFER TO ECA <u>046</u> 431 12 5 80																								
DETAIL: PURPOSE: TO INSTALL IMPROVED BSCA 1 LINE FEATURE CARD P/N 4411742. CHECKPOINT: BSCA 1 LINE FEATURE CARD P/N 4411742 EQUALS EC 578914 INSTALLED (ALSO CHECK MACHINE HISTORY). CARD REPLACEMENT DATA:																								
<table border="0"> <tr> <td><u>REA</u></td> <td><u>OLD P/N</u></td> <td><u>NEW P/N</u></td> </tr> <tr> <td></td> <td>4411834</td> <td>4411742</td> </tr> <tr> <td></td> <td>4413328</td> <td></td> </tr> <tr> <td></td> <td>4413234</td> <td></td> </tr> </table>													<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>		4411834	4411742		4413328			4413234	
<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>																						
	4411834	4411742																						
	4413328																							
	4413234																							
361/01-13-78																								

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

10

27	E	33		008	ALL	578915	1636901	1637582		B/M ACCA 1 LINE FEATURE D/C 1610	ALL 4953 WITH 1637582 WITHOUT EC 578915	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 060
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 1 LINE FEATURE CARD P/N 4411744

PREREQUISITE: ECA 008 - EC 578625

CARD REPLACEMENT DATA:	<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
		4413330	4411744
		4413236	
		4413167	

361/01-13-78

11

27	E	3		008	ALL	754954	1636895	1634793		B/M 4979 DISPLAY STATION ATTACH D/C 2956	ALL 4953 WITH B/M 1634793 WITHOUT EC 754954 WITHOUT REA 27-11545	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 033
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD P/N 4413921.

PREREQUISITE: EC 578625, ECA 008

CARD REPLACEMENT DATA:	<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
		27-11545	4413921
		4413256	4411535
		1635707	4413256

361/01-13-78

12

27	E	33		008		578757	1636939	1637890		B/M SHIP GROUP 4953 MOD AOO	ALL 4953	1.0	0.7
								1637981		B/M SHIP GROUP 4953 MOD BOO			(NOTE 1)
								4411355		B/M SHIP GROUP 4953 MOD COO			
								4411356		B/M SHIP GROUP 4953 MOD DOO			
							1636941	4412987		B/M 4973 LINE PRINTER ATTACH. D/C 5630			
							1636942	1637572		B/M 4974 SERIAL PRINTER ATTACH D/C 5620			
							1636943	1637585		B/M SDLC SINGLE LINE CONTROLLER D/C 2090			
							1636945	1634791		B/M 4962 DISK ATTACH D/C 3580			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: EC 754862, ECA 013

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTION FOR THIS EC ARE INCLUDED ON THE CONCURRENT FBM (EC 754862, ECA 012).

PREREQUISITE: EC 578625 (ECA 008) AND EC 754954 (ECA 011).

NOTE: THIS TIME REFLECTS TIME REQUIRED TO INSTALL BOTH ECA 012 AND ECA 013.

361/01-13-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES



Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
13													
27	E	33		008	ALL	754862	1636948	1637890 1637981 4411355 4411356 4412522		B/M SHIP GROUP 4953 MOD AOO B/M SHIP GROUP 4953 MOD BOO B/M SHIP GROUP 4953 MOD COO B/M SHIP GROUP 4953 B/M 4978 DISPLAY ATTACH D/C D02038	ALL 4953	1.0	0.7 (NOTE 1)
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
CONCURRENT: EC 578757, ECA 012													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTIONS FOR CONCURRENT EC 578757 ARE INCLUDED WITH THIS EC.													
PREREQUISITE: EC 578625 (ECA 008) AND ECA 754954 (ECA 011).													
NOTE 1: THIS TIME REFLECTS TIME REQUIRED TO INSTALL BOTH ECA 012 AND ECA 013. 361/01-13-78													
14													
27	E	33		008	ALL	578913	1636902	1637583		B/M BSCA 1 LINE ADAPTER (MED SPEED) D/C 2074	ALL 4953 WITH B/M 1637583 W/O EC 578913	1.0	0.7
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
THIS ECA IS CANCELLED REFER TO ECA <u>045</u> 431 12 5 80													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED BSCA 1 LINE (MED. SPEED) FEATURE CARD P/N 4411740.													
PREREQUISITE: EC 578625, ECA 008													
CHECKPOINT: BSCA 1 LINE FEATURE CARD P/N 4411740 EQUALS EC 578913 INSTALLED (ALSO CHECK MACHINE HISTORY). 361/01-13-78													
15													
27	E	33		NONE	ALL	754933	1636908	4412522		B/M 4978 DISPLAY ATTACH. D/C D02038	ALL 4953 WITH B/M 4412522 WITHOUT EC 754933, WITHOUT REA 27-11632	1.0	0.7
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
THIS ECA IS CANCELLED REFER TO ECA <u>068</u> 431 12 5 80													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4978 DISPLAY ATTACH.													
PREREQUISITE: EC 754862, ECA 012													
CHECKPOINT: 4978 FEATURE CARD P/N 4413882 OR REA 27-11632 EQUALS EC 754933 INSTALLED (ALSO CHECK MACHINE HISTORY).													
CARD REPLACEMENT:													
			<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>								
			27-11632	4411932	4413882								
				4411729	4411932								
			27-11250	4411032	4411729								
361/01-13-78													
16													
27	E	33		NONE	ALL	754946	1636912	4411092		B/M SHIP GROUP RPQ D02014	ALL 4953 WITH B/M 4411071 & W/O EC 754946	0.5	0.5
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
DETAIL:													
PURPOSE: TO ADD EXERCISER TEST PROGRAM 8013 TO DIAGNOSTIC PACKAGE FOR FEATURE B/M 4411071 (AUTO-CALL).													
CHECKPOINT: RPQ DISKETTE (PN 4414122) AT EC 578761 EQUALS AUTO-CALL FEATURE INSTALLED (ALSO CHECK MACHINE HISTORY). 366/03-24-78													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

17													
27	E	33		NONE	ALL	578886	2706296	1634791		B/M DISK ATTACHMENT D/C 3580	ALL 4953 WITH B/M 1634791 & W/O EC 578886	1.3	1.0

MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4962 DISK ATTACHMENT CARD - D/C 3580.

CHECKPOINT: 4962 FEATURE CARD P/N 4411694 EQUALS EC 578886 AS BEING INSTALLED (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	2710872	4410723	4411694
	2710933	1554447	
		4411070	

366/03-24-78

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27	E	33		012	ALL	754882	2706292	1637980		B/M SHIP GROUP 4953-A	ALL 4953 W/O EC 754882	2.0	0.5
							2706293	1637981		B/M SHIP GROUP 4953-B			
							2706294	4411355		B/M SHIP GROUP 4953-C			
							2706295	4411356		B/M SHIP GROUP 4953-D			
					SEE CONCURRENT:		5892424	1634791		B/M DISK ATTACH 4962			
							5892425	1634793		B/M DISPLAY ATTACH 4979			
							5892426	1634795		B/M SIO ATTACH 4982			
							5892427	1637561		B/M TIMER			
							5892428	1637565		B/M OEM/DPC			
							5892429	1637572		B/M PRINTER ATTACH 4974			
							5892430	1637582		B/M ACCA 1 LN CNTRL			
							5892431	1637583	OR	B/M BSCA 1 LN MED-SPD			
								1637584		B/M BSCA 1 LN HI-SPD			
							5892432	1637585		B/M SDLC 1 LN CNTRL			
							5892433	1637586	OR	B/M ACCA 8 LN CNTRL			
								1637587		B/M ACCA 4 LN ADAPTER			
							5892434	1637588		B/M BSCA 8 LN CNTRL			
							5892435	1637904		B/M DI/DO NON-ISO ATT.			
							5892436	4412522		B/M DISPLAY ATTACH 4978			
							5892437	4412940		B/M TTY ATTACH			
							5892438	4412987		B/M PRINTER ATTACH 4973			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED ON YOUR 4953 ON 4959. ALSO SEE NOTES 2,3 AND 4.

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS.

CHECKPOINT: DIAGNOSTIC DISKETTES (4-6) AT EC 754882 EQUALS EC 754882 (ALSO CHECK MACHINE HISTORY)

NOTE 1: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 754882 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAKDOWN OF THESE B/Ms.

NOTE 2: IF YOU HAVE A 4982 INSTALLED ONE OR MORE OF THE FOLLOWING FB/Ms MUST BE INSTALLED.

FB/M	FEATURE	FEATURE B/M
5889135	ANALOG PTRS.	1637577 OR 1637578 OR 1637579 OR 167580 OR 1637581

NOTE 3: IF YOUR SYSTEM IS INSTALLED IN A 4997 RACK, THE FOLLOWING B/M MUST BE INSTALLED:

FB/M	FEATURE	FEATURE B/M
5889138	4997 RACK	1634585 OR 1534586

NOTE 4: IF YOUR SYSTEM CONFIGURATION INCLUDES A 4999 BBU, THE FOLLOWING B/M MUST BE INSTALLED:

FB/M	FEATURE	FEATURE B/M
5889139	4999 BBU	1637992 OR 4411362

366/03-24-78

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27	A	33		008	ALL	754868	2706287	1637570		B/M DISKETTE ATTACHMENT D/C 3581	ALL 4953 WITH B/M 1637570 & W/O EC 754868	1.0	0.7
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MSIR CODE Z

Parts Source and Anticipated Availability Date

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

19 continued

DETAIL:

PURPOSE: TO INSTALL IMPROVED DISKETTE ATTACHMENT CARD. THIS IS AN AS REQUIRED EC FOR DISKETTE (4962) FAILING TO COME READY.

PREREQUISITE: EC 578625, ECA 008

CHECKPOINT: DISKETTE ATTACHMENT FEATURE CARD P/N 4413828 EQUALS EC 754868 INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA:

<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
2710555	4413240	4413828
2710686	4413298	
EC ONLY	4413298	

367/04-07-78

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27	E	33		NONE	A00 C00	578713	1636900	1637539 2706256		ELEC/MECH FINAL ASM A00 ELEC/MECH FIANL ASM C00	4953 A and C W. or W/O REA27-11104 & W/O EC578713	1.0	1.0
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MSIR CODE D

COMPANION OR CONCURRENT: NONE

Parts Source and Anticipated Availability Date

DETAIL: SAFETY

PURPOSE: To isolate power supply primary transformer from fan failures.

DESCRIPTION: Separate center winding taps of power supply primary transformer from center winding taps of fans.

NOTE: REA 27-11104 INSTALLED - PAPER ONLY CHANGE
EC578713 - UPDATE HISTORY, EC ALREADY INSTALLED
ABSENCE OF BOTH - THIS EC NEEDED TO BE INSTALLED

371/06-02-78

21

27	E	33		008	ALL	754957	1636897	4412989		4979 DISPLAY STATION DEVICE CODE = 2964 OR 2971 FRENCH OR BELGIUM	4953 ALL MOD- ELS WITHOUT E/C 754957 AND WITHOUT REA 27-11548	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 040
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR FRENCH OR BELGIUM.

PREREQUISITE: EC 578625 ECA #008

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413924 EQUALS EC 754957 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT:

<u>OLD P/N</u>	<u>NEW P/N</u>
4411537	4413924

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL.

373/06-30-78

22

27	E	33		008	ALL	754939	1636899	4412991		4979 DISPLAY STATION ATTACH DEVICE CODE = 2967 SWEDEN	4953 ALL MOD- ELS WITHOUT E/C 754939 AND WITHOUT REA 27-11550	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 THIS ECA IS CANCELLED
REFER TO ECA 043

PREREQUISITE: EC 578625 ECA #008 431 12 5 80

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413900 EQUALS EC 754939 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT:

<u>OLD P/N</u>	<u>NEW P/N</u>
4411536	4413900

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL.

373/06-30-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

23	27	E	33	008	ALL	754955	1636916	4411375		4979 DISPLAY ATTACH DEVICE CODE = 2958 ENGLISH (UNITED KINGDOM)	4953 ALL MOD- ELS WITHOUT E/C 754955 AND WITHOUT REA 27-11546	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 042
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR ENGLAND (U.K.).
PREREQUISITE: EC 578625 ECA #008

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413922 EQUALS EC 754955 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT: OLD P/N NEW P/N
4411523 4413922

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

24	27	E	33	008	ALL	754956	1636896	4412988		4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	4953 WITHOUT EC 754956 & WITHOUT REA 27-11547	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 039
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979
PREREQUISITE: EC 578625 ECA #008

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413923 EQUALS EC 754956 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT: OLD P/N NEW P/N
4411524 4413923

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

25	27	E	33	008	ALL	754958	1636898	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE = 2955 OR 2968 OR 2970 FRENCH OR ITALIAN OR JAPANESE	4953 ALL MOD- ELS WITHOUT E/C 754958 AND WITHOUT REA 27-11549	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 041
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FE AN.
PREREQUISITE: EC 578625 ECA #008

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413925 EQUALS EC 754958 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT: OLD P/N NEW P/N
4411538 4413925

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
26													
27	E	33		012		578960	1636917	4412987		LINE PRINTER 4973 D/C 5630	ALL 4953 WITH B/M 4412987 AND WITHOUT EC 578960	1.0	0.7
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> THIS ECA IS CANCELLED REFER TO ECA 066 431 12 5 80 </div> <p>DETAIL:</p> PURPOSE: TO INSTALL IMPROVED 4973 FEATURE CARD P/N 4411775. PREREQUISITE: EC 578757, ECA 012 CHECKPOINT: CHECK 4973 ATTACHMENT CARD P/N 4411775 EQUALS EC 578960 INSTALLED. CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 373/06-30-78													
27													
27	E	33		018	ALL	755243	0712280	1637980 1637981 4411355 4411356		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 Start/Stop 1 Line BSCA 1 Line Adap. Med Spd BSCA 1 Line Adap. Hi Spd Async Comm 8 Line Ctrl BSCA 8 Line Ctrl	All 4953's W/O EC 755243	.8	.5
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date <p>DETAIL:</p> Purpose; To Install Improved Diagnostic Discription; Replace Diskette P/N 1635002 To Support Map Changes And Replace System Test Diskette P/N 1635003. Pre-Requisite; ECA 018 - EC 754882 Checkpoint; Diskette P/N 1635003 At EC 755104 Equals This EC 755243 Is Installed (Also Check Machine History) Note #1; B/M(s) Will Be Included Only If Your System Contains Any Of These Features. 377/09-01-78													
28													
27	E	33		18		755331	712297	1637980 1637981 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 TIMERS BSCA 1 LN ADAP MED SP BSCA 1 LN ADAP. HI SP BSCA 8 LN CONTROLLER 4978 ATTACHMENT	ALL 4953s W/O EC 755331	0.5	0.3
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date <p>DETAIL:</p> 1. DCP AND CONFIGURATION PROGRAMS ARE UPDATED TO ALLOW RPQ USE OF BASIC DIAGNOSTICS. RPQs THAT ARE BASIC DIAGNOSTICS CAN NOW HAVE A DOUBLE ENTRY IN CONFIGURATION TABLE. 2. INSTALLS IMPROVED DOWN LINE DIAGNOSTICS FOR COMMUNICATION FEATURES. 3. UPDATES DIAGNOSTICS FOR TIMERS. 4. UPDATE 4978 DIAGNOSTICS TO IMPROVE DIAGNOSTIC ALTERNATE CONSOLE OPERATION. NOTE: B/M 712297 WILL SHIP TO ALL MACHINES. THE OTHER BILLS WILL SHIP TO THOSE MACHINES HAVING THE AFFECTED FEATURES. ALL BILLS AFFECTING YOUR MACHINE MUST BE INSTALLED CONCURRENTLY. 377/09-01-78													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
29													
27	E	33		NONE	ALL	755088	712265	4412940		TTY ADAPTER	4953 WITHOUT REA27-11643 & WITHOUT EC 755088	1.0	0.7
							712289	4412940		TTY ADAPTER	4953 WITH REA27-11643 & WITHOUT EC 755088	0.1	0.0
MSIR CODE <u>D</u>						THIS ECA IS CANCELLED REFER TO ECA <u>078</u> 431 12 5 80			Anticipated Availability Date			ROCH 10/78	
DETAIL:													
PURPOSE: TO INSTALL AN IMPROVED TTY FEATURE CARD. THE NEW CARD DECREASES THE POSSIBILITY OF OVERRUNS BY USING A SINGLE CHARACTER BUFFER.													
CHECKPOINT: TTY ADAPTER CARD P/N 4414864 AND LOGIC PAGE SD105 AT 755088 EQUALS THIS EC INSTALLED.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u> 4413262 4414864 379/10-05-78													
30													
27	E	33		NONE	ALL	754905	0712266	1637539 1637544 2706256 2706257		ELEC/MECH MOD A00 ELEC/MECH MOD B00 ELEC/MECH MOD C00 ELEC/MECH MOD D00	ALL 4953's w/o EC 754905 or REA 27-11627	1.0	0.7
MSIR CODE <u>D</u>									Parts Source and Anticipated Availability Date			8/78	
DETAIL:													
Installs new 4953 processor card													
Checkpoint: Processor card P/													
Card Replacement Data: <u>OLD P/N</u> <u>NEW P/N</u> 4413853 4414821 1632936													
NOTE: Installation instructions call EC 578486 as pre req. - All machines have 578486 installed. 379/10-06-78													
31													
27	E	33	28	ALL	755285	0712315	1637980 1637981 4411355 4411356 0712316 0712317 0712318 0712319 0712320 0712321			B/M SHIP GROUP 4955 A B/M SHIP GROUP 4955 B B/M SHIP GROUP 4955 C B/M SHIP GROUP 4955 D DISKETTE ATTACH. SERIAL PRINTER ATTACH. DISK ATTACH 4973 PRINTER ATTACH. DISPLAY ATTACH 4978 DISPLAY ATTACH 4979 DISPLAY ATTACH UK DISPLAY ATTACH GERMAN DISPLAY ATT FRENCH/BELG DISPLAY ATT FR/ITAL/JAP/UK DISPLAY ATTACH SWEDEN	ALL 4953s W/O EC 755285	0.5	0.3
MSIR CODE <u>D</u>									Parts Source and Anticipated Availability Date			8/78	
DETAIL:													
1. UPDATES 4962 DISK DIAGNOSTICS TO INCLUDE LIMITED VOCABULARY EDIT.													
2. UPDATES 4978 DIAGNOSTICS TO SUPPORT 4978 ENHANCEMENTS. (EC 755078 RELEASED NEW 4978 ATTACH CARD. DIAGNOSTIC DISKETTE P/N 1635278 MUST BE AT EC LEVEL 755285 TO TEST NEW CARD. DISKETTE AT THIS EC 755285 WILL TEST BOTH THE OLD LEVEL AND THE NEW LEVEL ENHANCED CARD).													
3. MINOR DIAGNOSTICS CORRECTIONS TO OTHER FEATURES.													
CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635278 AT EC 755285 EQUALS THIS EC INSTALLED.													
NOTE: B/M 0712315 WILL SHIP TO ALL 4953s. THE OTHER B/Ms WILL SHIP TO THOSE MACHINES HAVING THE AFFECTED FEATURES. ALL BILLS AFFECTING YOUR SYSTEM MUST BE INSTALLED CONCURRENTLY. 379/10-06-78													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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CEM

Engineering Change Announcements
Group 869
4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
32													
27	E	33		31	ALL	755078	712268	4412522		4978 ATTACHMENT RPQ D02038	ALL 4953s WITH D02038 AND WITHOUT 755078	1.0	.7
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 10/78					
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4978 ATTACHMENT CARD. NEW CARD ADDS SYS RESET TO 4978 ATTACHMENT. TO REMOVE CABLE ASSEMBLY P/N 8326879 IF REA 27-11659 INSTALLED.													
CHECKPOINT: 4978 ATTACHMENT P/N 8326924 EQUALS 755078 INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 4413882 8326924													
PRE REQ: EC 755285													
PREREQ CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635278 AT EC 755285 EQUALS PREREQ INSTALLED. 379/10-06-78													
33													
27	E	33		18	ALL	755136	0712291	1634793		4979 ATTACHMENT	ALL 4953s WITH 4979 FEATURE B/M 1634793 W/O EC 755136	1.0	.7
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 9/78					
DETAIL:													
PURPOSE: INSTALL NEW 4979 ATTACH CARD. CORRECTS END OF LINE DETECTION.													
CHECKPOINT: 4979 ATTACHMENT CARD 8326918 EQUALS 755136 INSTALLED.													
PREREQUISITE: EC 754882													
PREREQUISITE CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635001 AT EC 754882 OR HIGHER EQUALS PREREQ INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 4413921 8326918 379/10-06-78													
34													
27	E	33		8	ALL	755124	0712259	1637583		BSCA SINGLE LINE DC2074	ALL 4953s	1.0	0.7
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date					
DETAIL:													
PURPOSE: TO INSTALL IMPROVED BSCA (9600 BAUD) FEATURE CARD, P/N 8327258													
DESCRIPTION:													
<ul style="list-style-type: none"> - TIMING CORRECTED TO ALLOW IPL ON 4953 PROCESSORS - BUSY IS NOW RESET AFTER IPL TO PREVENT "BUSY AFTER RESET" BEING RETURNED TO ALL COMMANDS AFTER IPL. - CORRECTED CONDITION OF A SINGLE "DC1" CHARACTER SETTING IPL MODE. - CORRECTED CONDITION OF "SELECT" CHARACTER SETTING MULTI-POINT IPL. - THE HOST NOW HAS 13 SECONDS TO SWITCH OVER SWITCHED LINES BEFORE DTR IS DROPPED. - IPL OVER A SWITCHED LINE MAY NOW OCCUR. THIS ECA IS CANCELLED REFER TO ECA 045 AN OIO WITH A BYTE COUNT LESS THAN 3 WITHIN 50 MS OF RING INTERRUPT. - RING INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF "RING" AND NOT ON THE FALL OF "RING". 													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 4411740 8327258 379/10-06-78													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
35													
27	E	33		8	All	755128	0712258	1637584		BSCA High Speed DC 2075	All 4953's	1.0	0.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: To install improved timing corrected to allow IPL on 431 processors.</p> <p>Description: THIS ECA IS CANCELLED REFER TO ECA 046 59. 431 12-5-80</p> <p>- Busy is now reset after IPL to prevent "Busy After Reset" being returned to all commands after IPL.</p> <p>- Corrected condition of a single "DC" character setting IPL mode.</p> <p>- Corrected condition of "Select Mode" being reset after multi-point IPL.</p>													
Card Replacement:						Old P/N	New P/N						
						4411742	8327259						
						8326899						379/10-06-78	
36													
27	E	33		8		578701	8326723	1637599		Channel Repower	4953's w/o EC 578701	0.7	0.5
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							8/78
<p>DETAIL: Installs improved channel repower card P/N 4411841</p>													
						OLD P/N	NEW P/N						
						4410759	4411841						379/10-06-78
37													
27	E	33			ALL	755458	6837833	4411549		4987 ATTACHMENT	4953's WITH 4987 ATTACHMENT FEATURE	.2	
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							12/78
<p>DETAIL:</p> <p>PURPOSE: THIS ENGINEERING CHANGE INSTALLS AN IMPROVED MAINTENANCE PACKAGE FOR THE 4987 ATTACHMENT FEATURE.</p> <p>PREREQUISITE: THE SERIES/1 BASIC DIAGNOSTICS MUST BE AT EC 755331 OR HIGHER.</p> <p>CHECKPOINT: THE BASIC DIAGNOSTIC DISKETTE MUST BE AT EC 755331 OR HIGHER.</p> <p>NOTE: THIS B/M 6837833 MUST BE INSTALLED CONCURRENTLY WITH B/M 6837832 ON THE 4987 (ECA 001). 386/01-26-79</p>													
38													
27	E	33			ALL	755378	6839554	1637539		4953 CPU CARD	ALL 4953'S WITH EC 754905 OR REA27-11627 INSTALLED	1.0	0.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							3/79
						NOTE 1	1637544	2706256		ELEC/MECH GROUP	ALL 4953'S WITHOUT EC 754905 OR REA27-11627 INSTALLED	1.0	0.7
						NOTE 2	1637539	1637544		4953 CPU CARD			
						2706256	2706256						
						2706257							
<p>DETAIL:</p> <p>PURPOSE: B/M 6839554 SUPPLIES NEW MODULES TO INSTALL ON CARD P/N 4414821. B/M 6839555 SUPPLIES A NEW CPU CARD FOR MACHINES BUILT PRIOR TO EC 754905.</p> <p>DESCRIPTION: BOTH B/M'S CORRECT A REMOTE IPL PROBLEM.</p> <p>NOTE 1: B/M 6839554 CHECKPOINT IS CPU CARD P/N 4414821 INSTALLED.</p> <p>NOTE 2: B/M 6839555 INSTALL EC 754905 AND THIS EC 755378.</p>													
CARD REPLACEMENT DATA:						OLD P/N	NEW P/N						
						1632936	8327642						
						4414821						389/03-09-79	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
39													
27	E	33		18		755138	712293	4412988		4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	ALL 4953 WITH B/M 4412988 WITHOUT E/C 755138	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326920 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u>													
						4413923	8326920						
						4411524							
											389/03-09-79		
40													
27	E	33		18		755140	712295	4412989		4979 DISPLAY STATION ATTACH DEVICE CODE 2964 OR 2971 FRENCH OR BELGIUM	ALL 4953 WITH B/M 4412989 WITHOUT E/C 755140	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326922 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u>													
						4413924	8326922						
											389/03-09-79		
41													
27	E	33		18		755141	712296	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE 2955, 2968 OR 2970 FRENCH, ITALIAN, JAPANESE	ALL 4953 WITH B/M 4412990 WITHOUT E/C 755141	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326923 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u>													
						4413925	8326923						
											389/03-09-79		
42													
27	E	33		18		755137	712292	4411375		4979 DISPLAY STATION ATTACH DEVICE CODE 2958 ENGLISH (UK)	ALL 4953 WITH B/M 4411375 WITHOUT E/C 755137	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

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DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.
 PRE REQ: E/C 754882
 CHECKPOINT: 4979 ATTACHMENT P/N 8326919 EQUALS E/C INSTALLED.
 CARD REPLACEMENT: OLD P/N NEW P/N
 4413922 8326919

389/03-09-79

43

27	E	33		18		755139	712294	4412991		4979 DISPLAY STATION ATTACH DEVICE CODE 2967 SWEDEN	ALL 4953 WITH B/M 4412991 WITHOUT E/C 755139	1.0	.7
MSIR CODE <u>D</u>										Parts Source and Anticipated Availability Date			

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.
 PRE REQ: E/C 754882
 CHECKPOINT: 4979 ATTACHMENT P/N 8326921 EQUALS E/C INSTALLED.
 CARD REPLACEMENT: OLD P/N NEW P/N
 4413900 8326921

389/03-09-79

44

27	E	33		028	ALL	755404	6838417	1637980 1637981 4411355 4411356	OR OR OR	SHIP GROUP MOD A SHIP GROUP MOD B SHIP GROUP MOD C SHIP GROUP MOD D	ALL 4953'S WITHOUT EC 755404	0.5	0.3
NOTE: SEE CONCURRENT												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
												0.2	0.0
MSIR CODE <u>D</u>										Parts Source and Anticipated Availability Date 3/79			

DETAIL:

CONCURRENT: THESE B/M'S WILL BE SHIPPED ONLY IF YOU HAVE THESE FEATURES INSTALLED.
 PURPOSE: TO UPDATE DCP AND CONFIGURATION PROGRAMS TO SUPPORT 4955E AND TWO CHANNEL SWITCH.
 PREREQUISITE: ECA 028 EC 755331
 CHCKPOINT: DIAGNOSTIC DISKETTE (P/N 1635001) AT EC 755404 EQUALS EC 754404

389/03-09-79

45

27	E	33		8	ALL	755500	0712324	1637583		BSCA 1-LINE DC 2074	ALL 4953'S WITH B/M 1637583 W/O EC 755500	1.0	0.7
MSIR CODE <u>D</u>										Parts Source and Anticipated Availability Date 3/79			

DETAIL:

PURPOSE: TO INSTALL IMPROVED BASC (9600 BAUD) FEATURE CARD, P/N 6826143.
 DESCRIPTION: - THE ATTACHMENT, WHEN JUMPERED MULTI POINT TRIBUTARY, WILL NOW FOLLOW THE RECEIVE LINE SIGNAL AT ALL TIMES.
 - SELECT AND CONTROL MODE WILL REMAIN ACTIVE FOLLOWING AN IPL, WHEN ATTACHMENT IS A MULTI POINT TRIBUTARY.

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Srv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

45 continued

CARD REPLACEMENT DATA:	<u>OLD P/N</u>	<u>NEW P/N</u>	
	4411740	6826143	
	8327258		389/03-09-79

46

27	E	33		8	ALL	755501	0712325	1637584		BSCA H.S. DC 2075	ALL 4953'S WITH B/M 1637584 WITHOUT EC 755501	1.0	0.7
		MSIR CODE		D								Parts Source and Anticipated Availability Date	3/79

DETAIL:

PURPOSE: TO INSTALL IMPROVED BSCA H.S. (56K BAUD) FEATURE CARD P/N 6826145.

DESCRIPTION: - THE ATTACHMENT WILL NOW FOLLOW THE RECEIVE LINE, WHEN JUMPERED MULTI POINT TRIBUTARY.
 - SELECT AND CONTROL MODE WILL REMAIN ACTIVE FOLLOWING AN IPL WHEN ATTACHMENT IS A MULTI POINT TRIBUTARY.

CARD REPLACEMENT DATA:	<u>OLD P/N</u>	<u>NEW P/N</u>	
	8327259	6826145	
			389/03-09-79

47

27	E	33		08	ALL	755502	0712310	1637586		ACCA 8 LINE CONTROLLER	4953'S WITH B/M 1637586 WITHOUT EC 755502	1.0	0.7
		MSIR CODE		D								Parts Source and Anticipated Availability Date	3/79

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 8 LINE CONTROLLER FEATURE CARD.

- IMPROVES PATCH AREAS IN EACH ROS.
- GET A MODEM INTERFACE ERROR INSTEAD OF TIME OUT ON AN XMIT WITH TIMER 2 = 0.
- RESET RECEIVE MODE ON ANY ILR CONDITION.
- ENABLE WITH TIME OUT OR ENABLE WITH ANSWER TONE AND TIME OUT WILL PRESENT MODEM INTERFACE ERROR, INSTEAD OF TIME OUT IF WE HAVE NO DSR.
- CORRECTS LOST CONTROLLER END INTERRUPT CONDITION.
- CORRECTS CONTROLLER BUSY "FOREVER" CONDITION.
- CORRECTS INTERRUPTING WITH WRONG DEVICE ADDRESS.
- CORRECTS WRONG RESIDUAL ADDRESS ON TIME OUT.
- CYCLE STEALS LAST RECEIVED CHARACTER INTO STORAGE ON TIME OUT CONDITION.
- ADDED TEST POINTS FOR MANUFACTURING.

CHECKPOINT: ACCA CARD, P/N 6826147, EQUALS THIS EC INSTALLED.

CARD REPLACEMENT:	<u>OLD P/N</u>	<u>NEW P/N</u>	
	4410726	6826147	
	4411886		389/03-09-79

48

27	E	31		8	ALL	755503	0712311	1637588		BSCA 8-LINE CONTROL	ALL 4953'S WITH B/M 1637588 WITHOUT E/C 755503	1.0	0.7
		MSIR CODE		D								Parts Source and Anticipated Availability Date	3/79

PURPOSE: TO INSTALL IMPROVED 8-LINE CONTROLLER FEATURE CARD P/N 6826149

DETAIL: DESCRIPTION: -ATTENTION INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF RING INDICATOR.
 -CORRECTS POSSIBLE LOST CONTROLLER END PROBLEM.
 -INTERRUPT PENDING IS CLEARED WHEN A 1/2 J/O COMMAND IS ISSUED.
 -PREVENTS LOSS OF THE LAST BYTE OF AN INVALID LENGTH RECORD, IF AT AN EVEN ADDRESS.

CARD REPLACEMENT DATA:	<u>OLD P/N</u>	<u>NEW P/N</u>	
	8327156	6826149	
			389/03-09-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
49													
27	E	33		44		374888	6838897	1637980		SHIP GROUP	MOD A	1.0	0.7
								1637981		SHIP GROUP	MOD B	1.0	0.7
								4411355		SHIP GROUP	MOD C	1.0	0.7
								4411356		SHIP GROUP	MOD D	1.0	0.7
				NOTE: SEE CONCURRENT			6838898	1634791		4962 ATTACHMENT	ALL 4953'S	0.2	0.0
							6838899	1634793		4979 ATTACHMENT - U.S.	" "	0.2	0.0
								4412988		4979 ATTACHMENT - WTC	" "		
								4412989		" "	" "		
								4412990		" "	" "		
								4412991		" "	" "		
								4411375		" "	" "		
								8326904		" "	" "		
								8326905		" "	" "		
								8326906		" "	" "		
							6838900	1637572		4974 ATTACHMENT	ALL 4953'S	0.2	0.0
							6838901	4412522		4978 ATTACHMENT	" "	0.2	0.0
							6838902	4412940		TTY ATTACHMENT	" "	0.2	0.0
							6838903	4412987		4973 ATTACHMENT	" "	0.2	0.0

MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

CONCURRENT: THESE B/M'S ARE CONCURRENT IF THESE FEATURES ARE INSTALLED.
 PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS
 DESCRIPTION: PROVIDE UPDATED DISKETTE (P/N 1635278)
 PREREQUISITE: ECA 044 EC 755404, CHECKPOINT IS DISKETTE P/N 1635001

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50													
27	E	33		044	ALL	375135	6838414	1637980		SHIP GROUP MOD A	ALL 4953'S	0.5	0.3
								1637981		SHIP GROUP MOD B	WITHOUT		
								4411355		SHIP GROUP MOD C	EC 375135		
								4411356		SHIP GROUP MOD D			
				NOTE: SEE CONCURRENT			6838822	1637582		S/S 1-LINE ATTACHMENT		0.2	0.0
							6838823	1637588		BSCA 8-LINE CONTROLLER		0.2	0.0
								8327201		COD 8-LINE RPQ D02198		0.2	0.0
							6838824	1637585		SDLC ATTACHMENT		0.2	0.0
							6838825	1637583		BSCA 1-LINE ATTACHMENT		0.2	0.0
							6838826	1637584		BSCA H.S. ATTACHMENT		0.2	0.0
							6838827	1637586		S/S 8-LINE CONTROLLER		0.2	0.0

MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO PROVIDE UPDATED DISKETTE TO SUPPORT COMMUNICATIONS FEATURES.
 PREREQ: ECA 044 EC 755404
 CHECKPOINT: DIAGNOSTIC DISKETTE (P/N 1635001) AT EC 755404

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51													
27	A	33			ALL	374989	6837317	1637539		ELEC/MECH GROUP	4953A	0.5	0.5
								1637544		ELEC/MECH GROUP	4953B	0.5	0.5
								2706256		ELEC/MECH GROUP	4953C	0.5	0.5
								2706257		ELEC/MECH GROUP	4953D	0.5	0.5

MSIR CODE C

Parts Source and Anticipated Availability Date 2/79

DETAIL:

PURPOSE: INSTALL RUBBER PADS INSIDE OF BOARD COVERS.
 DESCRIPTION: CORRECTS SHORTING OF POWER CABLES TO BOARD COVER SCREWS.

389/03-09-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
52													
27	E	33		044	ALL	755393	0712335	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4953 WITH B/M 4411549 AND WITHOUT EC 755393	1.0	.6
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date 2/79							
DETAIL: INSTALL AN IMPROVED CHANNEL ATTACHMENT CARD.													
PURPOSE: CORRECTS A TIMING PROBLEM THAT ALLOWED AN INCORRECT CONDITION CODE TO BE RETURNED BY THE 4987 (RETURNED CC=1 SHOULD HAVE BEEN CC=16).													
DESCRIPTION: <u>NEW CARD</u> <u>OLD CARDS</u>													
			6826514			6826156 6826209			4413980 8326869			6826157	
												390/03-23-79	
53													
27	E	33		052	ALL	375099	6839162	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4953'S WITH B/M 4411549 & WITHOUT EC 375099	.6	.6
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date 2/79							
DETAIL: INSTALLS AN IMPROVED CONTROLLER CARD.													
PURPOSE: INCORPORATES SEVERAL MICRO CODE CORRECTIONS.													
DESCRIPTION: <u>NEW CARD</u> <u>OLD CARDS</u>													
			6838163			4411055 8327260			4413860 8327456			4414640 8333815	
												390/03-23-79	
54													
27	E	33		044	ALL	375032	6839115	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4953'S WITH B/M 4411549 & WITHOUT EC 375032	.2	0
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date 4/79							
DETAIL: THIS EC PROVIDES A NEW DIAGNOSTIC PACKAGE FOR THE 4987 CONTROLLER FEATURE.													
PURPOSE: TO MAKE THE DIAGNOSTIC TIMINGS PROCESSOR INDEPENDENT AND CORRECT SEVERAL ERRORS IN THE DIAGNOSTIC PACKAGE.													
CHECKPOINT: THE 4987 DIAGNOSTIC DISKETTE MUST BE AT EC 375032 OR 375032 MUST BE INSTALLED CONCURRENTLY ON THE 4987.													
												390/03-23-79	
55													
27	E	33				374831	6338413	1637980 1637881 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00		0.5	0.0
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date 3/79							
DETAIL:													
PURPOSE: TO PROVIDE INDEX TABS FOR MAPS, VOLUME 002.													
CHECKPOINT: PRESENCE OF INDEX TABS IN VOLUME 002 EQUALS EC 374831, ALSO CHECK MACHINE HISTORY.													
												390/03-23-79	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
56														
27	E	33		none		754960	8327162	1637544		Elec/Mech Final Asm	4953's WTC Only	2.0	2.0	
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date								
DETAIL: Replaces two fuse holders in the 300 watt power supply. This field bill to be shipped to World Trade only.											401/08-31-79			
57														
27	E	33		44	ALL	375052	6839318	1634795		4982 ATTACH	ALL 4953'S	0.5	0.2	
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date								
COMPANION OR CONCURRENT: 6839319 6839320 6839321 6839322 6839323. THESE BILLS ARE ON MACHINE TYPE 4982 (FCA 12)														
DETAIL:														
PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS.														
DESCRIPTION: PROVIDE UPDATED DISKETTE TO SUPPORT SENSOR I/O FEATURES BEING UPDATED ON CONCURRENT FBMs.														
DISKETTE REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u>														
					1635279	1635279								
					(EC 754882)	(EC 375052)								
PREREQS: EC 755404, CHECKPOINT DISKETTE P/N 1635001 AT EC 755404.											401/08-31-79			
58														
27	E	33	044 049 050 054		ALL	755551	6839235	1637980 1637981 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00	ALL 4953'S WITHOUT EC 755551	0.5 0.5 0.5 0.5	0.2 0.2 0.2 0.2	
				NOTE: SEE CONCURRENT:		6839229	1637561	TIMER					0.2	0.0
						6839231	1637582	S/S 1 LN ADAPT					0.2	0.0
						6839232	1637585	SDLC 1 LN ADAPT					0.2	0.0
						6839238	6826403	S/S SINGLE STOP BIT					0.2	0.0
						6839237	4413769	TWO CHANNEL SWITCH					0.2	0.0
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date								
DETAIL:														
CONCURRENT: THESE B/Ms WILL BE SHIPPED ONLY IF FEATURES ARE INSTALLED.														
PURPOSE: 1. TO INSTALL IMPROVED DIAGNOSTICS 2. TO SUPPORT IPL FROM 4966 3. TO CORRECT CONFIGURATION PROGRAM ERRORS, RELEASED ON EC 755404														
PREREQUISITES: ECA 044 EC755404 (CHECKPOINT - DISKETTE P/N 1635001) ECA 049 EC374888 (CHECKPOINT - DISKETTE P/N 1635278) ECA 050 EC375135 (CHECKPOINT - DISKETTE P/N 1635002) ECA 054 EC375032 (CHECKPOINT - DISKETTE P/N 4414981) ECA 057 EC375052 (CHECKPOINT - DISKETTE P/N 1635279) FCS EC375102 (CHECKPOINT - DISKETTE P/N 6826999)														
											401/08-31-79			
59														
27	E	33		58	ALL	375245	6839113	6826403		ACCA 1 STOP BIT RPQ D02236	ALL 4953'S WITHOUT EC 375245	1.0	0.7	
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date								
DETAIL:														
PURPOSE: TO INSTALL IMPROVED ACCA, RPQ D02236, CARD P/N 6839111.														
DESCRIPTION: CORRECTS RESET OF RECEIVING MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.														

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req # ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

59 continued

CARD REPLACEMENT DATA: OLD P/N 6837365 NEW P/N 6839111

PREREQUISITES: EC 75551, CHECKPOINT DISKETTE P/N 1635001 AT EC 75551.

401/08-31-79

60

27	E	33		08	ALL	375244	6839112	1637582		ACCA 1 LN. ADAPTER DC 1610	ALL 4953'S WITHOUT EC 375244	1.0	0.7
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 1 LN FEATURE, CARD P/N 6839110.

DESCRIPTION: CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.

CARD REPLACEMENT DATA: OLD P/N 4411744 6826141 NEW P/N 6839110

PREREQUISITE: EC 578625 CHECK MACHINE HISTORY.

401/08-31-79

61

27	A	33		58	ALL	375147	6840505	1637980 1637981 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00	ALL 4953'S WITHOUT EC 375147	1.0	1.0
SEE CONCURRENT: 6840500 1634791 6840501 1637561 6840502 1637582 6840503 1637586 6840507 4413769 6840508 6826403 6840509 8327706											0.2	0.0	
MSIR CODE <u>C</u>											Parts Source and Anticipated Availability Date		

CONCURRENT: THE FOLLOWING FB/MS ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/MS INSTALLED ON YOUR SYSTEM.

DETAIL:

PURPOSE: PROVIDE 4952 SUPPORT FOR ALL EXISTING S/1 FEATURES. UPDATE BASIC S/1 CONTROL PROGRAM AND CONFIGURATION PROGRAMS JANUARY, 1979 ANNOUNCEMENTS. CORRECT TIMING PROBLEMS IN TWO CHANNEL SWITCH DIAGNOSTICS. CORRECTS DIAGNOSTIC PROBLEMS WITH TIMER TEST FOR 4952.

PREREQUISITE: EC 75551 ECA 58

CHECKPOINT: DIAGNOSTIC DISKETTE PN 1635001 AT EC 75551 EQUALS PREREQ INSTALLED.

401/08-31-79

62

27	E	33		NONE	ALL	375221	6838858	1637585		SDLC ATTACHMENT DC 2090	ALL 4953'S	0.2	0.0
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		

DETAIL:

PURPOSE: TO PROVIDE AN UPDATED LOGIC PAGE SC 610.

401/08-31-79

63

27	E	33		31		755536	6838524	4412987		4973 LINE PRINTER ATT	ALL 4953'S WITHOUT 755536	1.0	0.7
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		

DETAIL:

1. THIS ECA IS RELEASED FOR WTC ONLY. ALL U.S. BUILT MACHINES WITH 4973 ATTACHMENT WILL BE FIELD UPDATED BY EC 375420. SEE ECA 002 FOR 4952, ECA 66 FOR 4953, ECA 68 FOR 4955 AND ECA 61 FOR 4959.

2. DO NOT ORDER THIS ECA (EC 755536) FOR U.S. BUILT MACHINES.

414/03-21-80

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
4													
27	E	33		58	ALL	375428	6839725	1637980 1637981 4411355 4411356		SHIP GROUP MOD 00A SHIP GROUP MOD 00B SHIP GROUP MOD 00C SHIP GROUP MOD 00D	ALL 4953'S WITHOUT 375428	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED SYSTEM TEST.													
PREREQ: ECA 58- EC 755551 (CHECKPOINT, DISKETTE P/N 1635001).													
DESCRIPTION: SUPPORT 4952/63/66 AND PROGRAMMABLE MULTI-LINE ACCA ATTACHMENT. IT ALSO PROVIDES IMPROVED FUNCTION OF EXISTING TEST MODULES.													
CHECKPOINT: DISKETTE P/N 1635003 AT EC 375428 EQUALS THIS EC INSTALLED.													
NOTE: THIS IS A COMPOSITE FBM, INSTALLING BOTH EC 375428 AND EC 755448.											414/03-21-80		
65													
27	A	33		061	ALL	375401	6841443	1637753 1637983 4411367 4411368		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00	ALL 4953'S WITHOUT EC 375401	1.0	1.0
SEE CONCURRENT:						6841444	1637583			BSCA 1 LN ADAP MD SPD		0.3	0.0
						6841446	1637584			BSCA 1 LN ADAP HI SPD		0.3	0.0
						6841446	1637588			BSCA 8 LN CONTROLLER		0.3	0.0
						6841446	8327201			BSC COD DISABLE RECG		0.3	0.0
MSIR CODE <u>C</u>						Parts Source and Anticipated Availability Date							
CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED IN 4953 PROCESSORS.													
DETAIL:													
PURPOSE: TO UPDATE DIAGNOSTIC DISKETTE (PN 1635001) AND SUPPORTING DOCUMENTATION.													
PREREQUISITE: ECA 061 EC 375147													
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635001) AT EC 375147 OR HIGHER EQUALS PREREQUISITE INSTALLED. 414/03-21-80													
66													
22	E	33		49		375420	6840781	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 OR 755536 OR REA 27-12260	1.0	0.7
						6840885	4412987			LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 AND WITH EC 755536 OR WITH REA 27-12260		
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
B/M 6840781													
INSTALLS IMPROVED 4973 ATTACHMENT CARD P/N 6840387													
1. PREVENTS UNDETECTED SYNC CHECKS.													
2. PREVENTS CONTINUOUS BELT RUN CONDITION RESULTING FROM CERTAIN SYNC CHECKS.													
3. PREVENTS UNDETECTED FORMS CHECKS.													
CARD REPLACEMENT DATA: OLD P/N NEW P/N													
						6825312	6840387						
						4411775							
B/M 6840885													
ADDS A LABEL TO CARD P/N 6825312 TO CHANGE P/N TO 6840387. CARD P/N 6825312 IS FUNCTIONALLY EQUIVALENT TO CARD P/N 6840387.													
											414/03-21-80		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
67														
27	A	33		NONE		375457	6838624				PRIMARY POWER CORD WIRING CHANGE	ALL 4953's, 4955's, AND 4959's PRIOR TO EC 374956	2.0	2.0
				MSIR CODE <u>C</u>		Parts Source and Anticipated Availability Date								
DETAIL:														
TO INSURE LINE AND NEUTRAL AS WELL AS COLOR CODING CONTINUITY IS MAINTAINED TO PREVENT INADVERTENT FUSING OF THE NEUTRAL LINE.														
NOTE: THIS ECA RELEASED FOR WORLD TRADE AFFECTS U.K. ONLY.											414/03-21-80			
68														
27	A	33		31		375158	6840608	4412522			4978 ATTACHMENT	ALL CARD FILES WITH B/M 4412522 AND WITHOUT EC 375158	1.0	0.7
				MSIR CODE <u>C</u>		Parts Source and Anticipated Availability Date								
DETAIL:														
TO INSTALL IMPROVED 4978 FEATURE CARD P/N 6838710. THIS CORRECTS A 4978 TO SERIES/1 DATA TRANSMISSION PROBLEM THAT OCCURS WHEN THE LAST POSITION ON A LINE IS PROTECTED AND YOU ARE TRANSMITTING THE LAST PART OF THE LINE TO THE SERIES/1. THE LAST BYTE BEFORE THE PROTECTED POSITION DOES NOT GET SENT IF IT IS BEING SENT TO AN EVEN ADDRESS IN THE SERIES/1.														
CARD REPLACEMENT DATA: OLD P/N NEW P/N														
6836924 6838710														
4413882														
											414/03-21-80			
69														
27	E	33		050	ALL	375094	6840925	1637980 1637981 4411355 4411356 4411355			SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SDLC 1 LN	ALL 4953'S WITHOUT EC 375094	1.0	0.7
				NOTE: SEE CONCURRENT:		6840926		1637585		Parts Source and Anticipated Availability Date				
MSIR CODE <u>D</u>														
CONCURRENT: THIS B/M IS TO BE INSTALLED CONCURRENTLY IF THIS FEATURE (SDLC) IS INSTALLED ON YOUR MACHINE.														
DETAIL:														
PURPOSE: UPDATE DISKETTE (PN 1635002) FOR MULTI-LINE COMMUNICATIONS CONTROLLER.														
PREREQUISITE: ECA 050 EC 375135														
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635002) AT EC 375094 EQUALS THIS EC INSTALLED.											414/03-21-80			
70														
27	E	33		61		375609	6842641	4412759			4963 ATTACHMENT	ALL 4953'S WITHOUT EC 375609	1.0	0.5
				MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date 12/79								
DETAIL:														
EC 375609 PROVIDES A NEW 4963 DIAGNOSTIC DISKETTE P/N 6826999 AND ACCOMPANYING DOCUMENTATION TO IMPROVE DIAGNOSTICS AND UTILITIES.														
NOTE: THIS EC INSTALLS BOTH ECs 375376 & 375609.														
											414/03-21-80			

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
71													
27	A	33		065	All	375384	6842522	1697980		Ship Group Mod A00	All 4953's Without EC 375384	1.0	1.0
							6842520	4411356		Ship Group Mod B00		1.0	1.0
							6842522	4411355		Ship Group Mod C00		1.0	1.0
							6842520	1637981		Ship Group Mod D00		1.0	1.0
					See Concurrent		6843668	1637561		Timer		0.5	0.0
							6843669	1637583		BSC 1 Line Adapter (Med Speed)		0.5	0.0
							6843669	1637584		BSC 1 Line Adapter (High Speed)		0.5	0.0
							6843669	1637588		BSC 8 Line Controller		0.5	0.0
							6843671	1637582		Start/Stop 1 Line Adapter		0.5	0.0
							6843672	1637585		SDLC Single LN		0.5	0.0
							6844240	6827113		4966 Attach		1.0	1.0
							6843670	1637846		4982		0.5	0.0
							6843667	1637563		4955 FPS		0.5	0.0
							6843674	4413769		TCS		0.5	0.0
MSIR CODE _____												Parts Source and Anticipated Availability Date	
COMPANION OR CONCURRENT: The following FB/Ms are to be installed if features are on your machine.													
DETAIL: Updates Maps and basic diskette P/N 1635001.											427/10-03-80		

72													
27	A	33		069	ALL	375465	6843681	1637980		SHIP GROUP MOD A00	ALL 4953'S WITHOUT EC375465	1.0	1.0
							6843681	1637981		SHIP GROUP MOD B00		1.0	1.0
							6843681	4411355		SHIP GROUP MOD C00		1.0	1.0
							6843681	4411356		SHIP GROUP MOD D00		1.0	1.0
					SEE CONCURRENT		6843675	1637565		OEM DPC INTERFACE		0.2	0.0
							6843676	1637582		ASYNCHR START/STOP		0.2	0.0
							6843677	1637583		BSCA 1 LINE ADAPT		0.2	0.0
							6843677	1636584		BSCA 1 LINE ADAPT. HI-SPD		0.2	0.0
							6843678	1637585		SDLC SINGLE LINE CONTROL		0.2	0.0
							6843679	1637586		ASYNCH COMM 8 LINE CONTROL		0.2	0.0
							6843680	1637588		BSCA 8 LINE CONTROL		0.2	0.0
							6843680	8327201		RPQ D02198		0.2	0.0
							6844067	1637904		DIGITAL I/O		0.2	0.0
							6844078	6837366		PROG 8 LINE COMM		0.2	0.0
MSIR CODE <u> c </u>												Parts Source and Anticipated Availability Date	
DETAIL: CONCURRENT: THE FOLLOWING FB/M'S ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/M'S INSTALLED ON YOUR SYSTEM.													
PURPOSE: UPDATE DIAGNOSTICS FOR COMMUNICATION FEATURES. UPDATE FEATURE PROGRAMMABLE MULTI-LINE DIAGNOSTICS TO FCS LEVEL.													
PREREQUISITES: EC375094 ECA069													
CHECKPOINT: DISKETTE P/N1635002											427/10-03-80		

73													
27	A	33		65	All	375475							
MSIR CODE _____											Parts Source and Anticipated Availability Date		
DETAIL: This ECA is for sequence purposes only. This EC 375475 is installed by EC 375384 reference. 4953 ECA 071													
											427/10-03-80		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
74													
27	E	33		None		375482	6844256 6844256 6844256 6844256	1637980 1637981 4411355 4411356		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00	All 4953's without EC375482	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date							
DETAIL: Purpose: Update system test. Include 4969 support, include latest limited vocabulary edit, convert program listings to microfiche. This B/M is a total replacement for Vol. 4.												427/10-03-80	
75													
27	E	33		None	All	375321	6844986	6826371		Ship GRP. 5250 Attachment	All with B/M 6826371 W/O EC 375321	0.5	0.5
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date							
DETAIL: This EC Corrects Map errors and supplies a new initializer diskette.												427/10-03-80	
76													
27	E	33		None	All	375322	6826590	6826371		Ship GRP 5250 Attachment	All Machines without EC 375322	0.5	0.5
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date							
DETAIL: This EC corrects diskette errors and adds Spanish Menos to the diskette.												427/10-03-80	
77													
27	A	33		008		375666	6843309	1637586		ASYN COMM 8 LN CTRL	ALL WITH B/M 1637586 W/O EC 375666	1.0	0.7
				MSIR CODE <u> </u>		Parts Source and Anticipated Availability Date							
DETAIL:													
INSTALLS NEW ACCA 8 LINE CONTROL FEATURE CARD. CORRECTS THE FOLLOWING CONDITIONS:													
<ol style="list-style-type: none"> 1) TIMEOUT ON RECEIPT OF EOB BEFORE CHECKING LRC. 2) RESETTING OF STATUS WORDS AFTER TIMEOUT. 3) EXTRA CYCLE STEAL CYCLES ON CHAINED TRANSMIT OPERATIONS. 4) LOSS OF CONTROLLER END INTERRUPT. 													
				NEW P/N: 6841989		OLD P/N: 6840560				427/10-03-80			
78													
27	A	33		None	All	375542	6841907	4412940		TTY Adapter	All 4953 w/TTY attach w/o EC375542	1.0	0.7
				MSIR CODE <u> C </u>		Parts Source and Anticipated Availability Date							
DETAIL: To install improved TTY Card P/N 6841065													
Description: Decrease possibility of data shift for devices using single stop bit.													
Card Replacement Data: Old P/N 4414864 New P/N 6841065													
												427.10-03-80	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
79													
27	E	33		008		375654	6841973	1637582		START/STOP 1LN ADAPT	ALL WITH B/M 1637582 W/O EC 375654 OR REA 27-12319	1.0	0.7
			MSIR CODE _____				Parts Source and Anticipated Availability Date						
DETAIL:													
INSTALLS IMPROVED ACCA 1 LINE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.													
NEW P/N: 6841911				OLD P/N: 6840559				427/10-03-80					
80													
27	E	33		NONE		375655	6841974	6826403		S/S SINGLE STOP BIT	ALL WITH B/M 6826403 W/O EC 375655 OR REA 27-12320	1.0	0.7
			MSIR CODE _____				Parts Source and Anticipated Availability Date						
DETAIL:													
INSTALLS IMPROVED ACCA 1 LINE RPQ D02236 FEATURE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.													
NEW P/N: 6841912				OLD P/N: 6840565				427/10-03-80					
81													
27	E	33		052 082		375357	6843317	4411549		PCM CONTROLLER	ALL 4953's WITH B/M 4411549 W/O EC 375357	1.0	.6
			MSIR CODE <u>D</u>				Parts Source and Anticipated Availability Date						
DETAIL: INSTALLS AN IMPROVED CONTROLLER CARD.													
PURPOSE: INCORPORATES SEVERAL MICRO CODE CORRECTIONS AND SUPPORT FOR NEW ORDERS.													
DESCRIPTION:													
			<u>NEW CARD</u>				<u>OLD CARDS</u>						
			6839661				4411055 8327456 4413800 8333815 4414640 6826159 8326868 6838163 8327260						
427/10-03-80													
82													
27	A	33		054		375469	6844996	4411549		PCM CONTROLLER	4953 With Feature B/M 4411549 W/O EC 375469	0.5	0.5
			MSIR CODE _____				Parts Source and Anticipated Availability Date						
CONCURRENT: 4987 B/M 6844995													
DETAIL: UPDATE DOCUMENTATION TO SUPPORT DIAGNOSTIC CHANGES ON 4987 ECA 004.													
429/10-31-80													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
83													
27	A	33		73		375427	6844597	8327308		System/370 Chan Atth.	All with B/M 8327308 W/O EC 375427	0.5	0.5
MSIR CODE _____													
CONCURRENT: 6844596 applies only to 4955.													
DETAIL:													
Update maps and diagnostics for 370 attach. to increase effectiveness. Machines in the field should already have this EC installed and should not have to order this EC. 429/10-31-80													
84													
27	A	33		065 083 100		876741	6845042	8327308		System/370 Chan ATTH	All with B/M 8327308 W/O EC 876741 and W/O REA 27-12433	1.2	1.0
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL:													
Installs improved Series/1 System/370 Attachment card. Corrects not dropping load light during host IPL. 429/10-31-80													
New P/N 6844238 Old P/N 6842481													
85													
27	A	33				376376	N/A				All w/o EC 376376	.5	.5
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL: 4963 RAS change. This EC is released for records purposes only and will be picked up on EC 877036. 431.12-5-80													
86													
27	E	33		None		876907	6846720	6840490		Data Entry Loop-1st D02312	4953	1.0	.7
MSIR CODE _____													
Parts Source and Anticipated Availability Date 5-9-80													
DETAIL: To install improved DCI/1 controller card P/N 6844673 to correct timing conditions which may occur on card P/N 6842497. 431.12-5-80													
87													
27	E	33		NONE	ALL	375200	6826768	8327254		5250 DISPLAY ATTACH	ALL 4952's 4953's, 4955's and 4959's with FTR B/M 8327254 and without 375200	1.0	1.0
MSIR CODE D _____													
Parts Source and Anticipated Availability Date													
DETAIL: PURPOSE: TO UPDATE THE 5250 ATTACHMENT AND DRIVER/RECEIVER CARDS TO NEW LEVELS. DESCRIPTION: REPLACE ATTACHMENT CARD P/N 6827095 WITH NEW P/N 6838849. 431.12-5-80													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time				
								Feature B/M #	Seq #	Description of Feature		Man	Sys			
88																
27	E	33		none		375201	N/A	8327254			All w/o EC 375201	.5	.5			
MSIR CODE _____ Parts Source and Anticipated Availability Date																
DETAIL: Update ROS. This EC is released for records purposes only and will be picked up on EC 375515. 431/12-5-80																
89																
27	E	33		061 064		375393	6840798	6827113			AUTOLOADER DISKETTE ALL WITH B/M 6827113 W/O EC 375393 or REA 27-12236	1.0	0.7			
MSIR CODE _____ Parts Source and Anticipated Availability Date																
DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. THIS ECA IS OBSOLETE BY EC 375656.																
<table border="0" style="width:100%"> <tr> <td style="text-align:center"><u>NEW P/N</u></td> <td style="text-align:center"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align:center">6840515</td> <td style="text-align:center">6839345 6839724 6840513</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6840515	6839345 6839724 6840513
<u>NEW P/N</u>	<u>OLD P/N</u>															
6840515	6839345 6839724 6840513															
431.12-5-80																
90																
27	A	33		061		375352	6839768	4412759			4963 Attachment All with B/M 4412759 W/O EC 375352	1.0	0.7			
MSIR CODE _____ Parts Source and Anticipated Availability Date																
COMPANION OR CONCURRENT: NONE																
DETAIL: INSTALLS NEW ATTACHMENT CARD. NO FUNCTIONAL IMPROVEMENTS ARE MADE WITH THIS EC. THIS IS FOR INFORMATION ONLY. OLD AND NEW PARTS ARE FUNCTIONALLY EQUIVALENT.																
<table border="0" style="width:100%"> <tr> <td style="text-align:center"><u>NEW P/N</u></td> <td style="text-align:center"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align:center">6839659</td> <td style="text-align:center">6838056</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6839659	6838056
<u>NEW P/N</u>	<u>OLD P/N</u>															
6839659	6838056															
431.12-5-80																
91																
27	E	33		061 075	ALL	375515	6842669	8327254			5250 DISPLAY ATTACH. ALL 4953's WITH B/M 8327254 W/O EC 375515 AND WITH EC 375201	1.0	1.0			
MSIR CODE _____ D _____ Parts Source and Anticipated Availability Date																
DETAIL: PURPOSE: TO UPDATE EARLY SHIP 5250 INFORMATION DISPLAY SYSTEM ATTACHMENT TO FCS LEVEL HARDWARE. DESCRIPTION: THE ATTACHMENT CARD IS REPLACED AND A CONTROL STORAGE LOADER DISKETTE IS INSTALLED WITH B/M 6842669. IF B/M 6838611 IS INSTALLED THE DRIVER/RECEIVER CARD IS ALSO REPLACED. SPECIAL TOOLS REQUIRED: A CE MAINTENANCE CONSOLE WILL BE REQUIRED IF THE SYSTEM DOES NOT HAVE A PROGRAMMER'S CONSOLE OR AN OPERATING 5251. NOTE: MACHINES WITH REA'S 27-12267 AND 27-12110 EQUALS EC 375201 INSTALLED.																
431.12-5-80																

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

92													
27	E	33		061		375333	6841114	4413790		SHIP GRP D02045	ALL 4953 W/ RPO 2045, B/M 4413790 AND W/O EC 375333	1.0	1.0
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
DETAIL:													
PURPOSE: REPLACE DIAGNOSTIC DISKETTE P/N 4413541 FOR S/1 TO S/7 LOCAL ATTACHMENT.													
UPDATE MAINTENANCE DOCUMENTATION													
PREREQUISITES EC 375147 - INSTALL IMPROVED DIAGNOSTIC DISKETTE P/N 1635001 432.12-19-80													

93																
27	A	33		NONE		375481	6841797	1637591		COMMUNICATION POWER	ALL 4953 MODEL B OR D WITH FEATURE B/M1637591 W/O EC375481 OR REA27-12253	0.5	0.5			
MSIR CODE <u> </u> Parts Source and Anticipated Availability Date																
COMPANION OR CONCURRENT: NONE																
DETAIL:																
IF P/S SEQUENCE CARD IS REPLACED FROM P/N4412948 TO P/N6839225 AND FEATURE 1637591 IS PRESENT (COMMUNICATION POWER) THIS EC MUST BE INSTALLED. THIS EC CORRECTS A TIMING PROBLEM BETWEEN P/S SEQUENCE CARD 6839225 AND COMM. POWER CARD 4412932.																
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>NEW P/N</u></td> <td style="text-align: center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align: center;">6840803</td> <td style="text-align: center;">4412932</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6840803	4412932
<u>NEW P/N</u>	<u>OLD P/N</u>															
6840803	4412932															
NOTE: INSTRUCTIONS FOR THIS EC SAY APPLIES TO 4953 B OR D, AND 4959. THEY SHOULD ALSO INCLUDE 4955 A, B, C, or D. 432.12-19-80																

94													
27	E	33		none		375603	6844554	6825474 6825469 8327706		S/1 to S/1 Att. 1 S/1 to S/1 Att. 2 GPIB Adapter	All 4953's with FB/M 6825474 or FB/M 6825469 or FB/M 8327706 w/o EC375603	1.0	.7
MSIR CODE <u> </u> Parts Source and Anticipated Availability Date													
DETAIL: Purpose: To install improved general purpose interface adapter feature card. 432.12-19-80													

95													
27	A	33		008		375664	6843308	1637588		BSCA 8 LN CONTROLLER	ALL WITH B/M 1637588 W/O EC 375664	1.0	0.7
MSIR CODE <u> </u> Parts Source and Anticipated Availability Date													
DETAIL:													
INSTALLS IMPROVED BSCA 8 LINE CONTROL FEATURE CARD. CORRECTS LOSS OF CONTROLLER END INTERRUPT.													
NEW P/N: 6841988 OLD P/N: 6840563 432.12-19-80													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time										
								Feature B/M #	Seq #	Description of Feature		Man	Sys									
96																						
27	E	33		99	ALL	375694	6844595	6826371		SHIP GRP. 5250	ALL 4952's 4953's, 4955's and 4959's With FEA,B/M 6826371 and W/O EC 375694	0.5	0.5									
MSIR CODE _____											Parts Source and Anticipated Availability Date											
DETAIL: PURPOSE: TO UPDATE THE 5250, INFORMATION DISPLAY, ATTACHMENT PACKAGE. DISCRIPTION: TO REVISE AND UPDATE THE DIAGNOSTIC MAPS.											432.12-19-80											
97																						
27	A	33		061		375397	6844559	6827113		AUTOLOADER DISKETTE	All With B/M 6827113 W/O EC 375397	0.5	0.5									
MSIR CODE _____											Parts Source and Anticipated Availability Date											
DETAIL: REPLACES DIAGNOSTIC DISKETTE 6838000 WITH NEW DISKETTE. UPDATES MAPS AND DIAGNOSTICS FOR 4966.											432.12-19-80											
98																						
27	A	33		061 064		375656	6842602	6827113		AUTO LOADER DISKETTE	ALL WITH B/M 6827113 W/O EC 375656 OR REA 27-12322	1.0	0.7									
MSIR CODE _____											Parts Source and Anticipated Availability Date											
COMPANION OR CONCURRENT: NONE																						
DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. CORRECTS DISKETTE FORMATTING INCOMPATABILITY BETWEEN 3741 AND 4966.																						
<table border="0"> <tr> <td>NEW P/N</td> <td>OLD P/N</td> </tr> <tr> <td>6841959</td> <td>6839345</td> </tr> <tr> <td></td> <td>6839724</td> </tr> <tr> <td></td> <td>6840513</td> </tr> <tr> <td></td> <td>6840515</td> </tr> </table>											NEW P/N	OLD P/N	6841959	6839345		6839724		6840513		6840515	432 12-19-80	
NEW P/N	OLD P/N																					
6841959	6839345																					
	6839724																					
	6840513																					
	6840515																					
99																						
27	E	33		91	All	375823	6843335	6826371		Ship Grp.	All 4952's 4953's,4955's and 4959's with FTR B/M 6826371 and W/O EC 375823	0.3	0.3									
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date											
DETAIL: Purpose: To update all installed systems to the level required to support B/M 8327254, 5250 information display attached.																						
Description: This B/M installs a control loader diskette and updates the machine history to reflect EC 375823 as being installed.											432 12-19-80											

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
100													
27	A	33				375597	6841484				All 4953's	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:													
This EC is obsolete. Replaced by EC 375320. Refer to ECA 108.											432.12-19-80		
101													
27	A	33		031	All	375809	6844617	4412522		4978 ATTACH IMPROVED FEAT. CARD	ALL 4952's 4953's, 4955's 4959's WITH B/M 4412522 and W/O EC 375809	1.0	0.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL: Purpose and Description: To install an improved 4978 feature card P/N 6843002. This corrects a 4978 to Series/1 data transmission problem that occurs when the last position on a line is protected and you are transmitting the last part of the line to the Series/1. The last BYTE before the protected position does not get sent if it is being sent to an even address in the Series/1.													
												432.12-19-80	
102													
27	E	33				876814						0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: This EC is for sequence purposes only.													
												432.12-19-80	
103													
27		33		None		876817				F.I.B. for RPQ D02198		0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: This EC is for sequence purposes only.													
												436.02-20-81	
104													
27	E	33		61		876916	6845413	1634795		SIO ATTACHMENT	ALL W/O EC 876916	.7	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
CONCURRENT WITH FEATURE: 1637574 FB/M 6845414													
1637575 6845415													
DETAIL: 1637576 6845416													
1637577 6845417													
1637578 6845418													
1637579 6845419													
1637580 6845420													
1637581 6845421													
UPDATE THE MAINTENANCE PACKAGE WITH LIMITED VOCABULARY AND CONVERT PROGRAM LISTINGS TO MICROFICHE.													
												436.02-20-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

105

27	E	33				375474	6844655					0.0	0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date COMPANION OR CONCURRENT: NONE DETAIL: THIS ECA IS RELEASED FOR SEQUENCE PURPOSES ONLY. THE 4969 ATTACHMENT CARD WILL BE RELEASED ON EC 877048.													
												436 02 20 81	

106

27	A	33		071		877041	6846604	1637980 4411356 4411355 1637981 1634793 or 4411375 or 4412988 or 4412989 or 4412990 or 4412991 or 8326904 or 8326905 or 8326906 6846606 6846607 6846608 6846609 6846610 6846611		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 4979 Display 4973 Printer 4978 Display 4962 Disk 4964 Diskette 4974 Printer TTY	All 4953's W/O EC 877041	0.7 0.7 0.7 0.7 0.2	0.5 0.5 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date CONCURRENT: The following FB/M's are to be installed if the features are installed on your machine.													
DETAIL: 1. 4966 (4AXX) and 1370 (D800) attachment diagnostics added to Basic diskette. 2. Updates MAP's with "limited vocabulary" edit. 3. Converts program listings to microfiche (microfiche not shipped with FB/M's see CEM's for microfiche procedures).													
												436 02-20-81	

107

27	E	33		094		876876	6844555	6825474 6825469		S/1 Attach Master S/1 Attach Slave	ALL 4953 W/ F/BM 6825474 OR F/BM 6825469 AND W/O EC 876876	.5	.5
MSIR CODE _____ D _____ Parts Source and Anticipated Availability Date													
DETAIL: PURPOSE: PROVIDE IPL CAPABILITY FOR S/1 TO S/1 ATTACH FEATURE DESCRIPTION: ADD PATCH DISKETTE TO MACHINE WITH RPQ D02241 PREREQUISITES: EC 375603 CHECKPOINT: P/N 6841583 (GPIB)													
												436 02 20 81	

108

27	A	33		none		375320	6844557	1637539 1637544 2706256 2706257		Elec/Mech Final A00 Elec/Mech Final ASM Basic Elec/Mech MD-C Basic Elec/Mech MD-D	All w/feature 1637539 or 1637544 or 2706256 or 2706257 w/o EC 375320	1.0	0.7
MSIR CODE _____ Parts Source and Anticipated Availability Date													
												continued	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
108 continued														
DETAIL: Replaces Processor card to correct negative and overflow indicators setting on some exception conditions. Corrects cycle steal status line problem with System/370 attach.														
						<u>New P/N</u>	<u>Old P/N</u>							
						6839050	4414821 8327642 6841453							
													436	02 20 81
109														
27	A	33		NONE		375700	6842495	6837366		8-LINE COMM CONTROL (FEATURE PROGRAMMABLE MULTILINE COMM. CONTROL)	ALL WITH B/M 6837366 W/O EC 375700	1.0	0.7	
						MSIR CODE _____							Parts Source and Anticipated Availability Date	
DETAIL: CORRECTS THE FOLLOWING PROBLEMS: 1. CHAINING OF RECEIVE COMMANDS WHEN LINE SPEED IS 4800 BPS OR GREATER CAUSING LOST DATA OR INCORRECT DATA. 2. CHAINING FROM A DCB RESET TO ANY COMMAND CAUSES DCB SPEC. CHECK. 3. CORRECTS "BREAK" PROBLEM. ADDS INCREASED FUNCTION TO SUPPORT 3101 AND ALC PROTOCOLS.														
						<u>NEW P/N</u>	<u>OLD P/N</u>							
						6842494	6840558							
													436	02 20 81
110														
27	E	33				876920						0.0	0.0	
						MSIR CODE _____							Parts Source and Anticipated Availability Date	
Companion or Concurrent: None														
DETAIL: This ECA is released for sequence purposes only. The diagnostics will be releases by EC 864399.														
													436	02 20 81
111														
27	E	33		071		877036	6846261	4412759		4963 Attachment	All with B/M 4412759 w/o EC877036	1.0	0.5	
						MSIR CODE _____							Parts Source and Anticipated Availability Date	
DETAIL: This EC updates the 4963 diagnostics and releases program 7AF5 which is a 4963 Initializer.														
													436	02 20 81
112														
27	A	33		071	All	876895	6846996 6846996 6846996 6846996 6846997 6846998 6846999 6847000 6847001 6847002	1637980 1637981 4411355 4411356 1637583 1637584 1637585 6844943 1637586 1637588 8327201 6826371 6844227		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 BSCA MED SPD or Multi-line France only, BSCA HI SPD or SDLC ACCA Multi-line BSCA Multi-line or RPQ D02198 5250 Attachment Multi-line ASC II	All with B/M 6846996 and w/o EC 876895	0.5 0.5 0.5 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.5 0.5 0.5 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	
						See Concurrent								
DETAIL: This EC updates the 4963 diagnostics and releases program 7AF5 which is a 4963 Initializer.														
													continued	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
112 continued														
			MSIR CODE _____										Parts Source and Anticipated Availability Date	
CONCURRENT: The following FB/M's are to be installed if features are on your machine.														
DETAIL: PURPOSE: Pickup high speed SDLC, pick up REA's 27-12480 and 27-20723, correct single-line BSC half rate.														
DESCRIPTION: Correct multi-line controller for device address entry on manual MAPS.														
													436	02 20 81
113														
27	A	33		008		876993	6846063	1637583		BSCA 1 Line Adap Med SPD	All 4953's with FBM 1637583 w/o EC876993	1.0	.7	
			MSIR CODE _____ D										Parts Source and Anticipated Availability Date	
DETAIL: Purpose: 1. To support RPS when using delayed processing. 2. To support certain modems when using "Enable with Timing" command.														
Prerequisite: EC578625														
													436	02 20 81
114														
27	A	33		none		375662	6846908	4412759		4963 Attachment	All with B/M 4412759 w/o EC375662	0.5	0.0	
			MSIR CODE _____										Parts Source and Anticipated Availability Date	
DETAIL: Updates the MLD Maintenance Documentation for the 4963.														
													436	02 20 81
115														
27	E	33		086		864534	6846751	6841121		DATA ENTRY LOOP DO2312	ALL WITH B/M 6841121 W/O EC 864534	1.0	1.0	
			MSIR CODE _____										Parts Source and Anticipated Availability Date	
COMPANION OR CONCURRENT: NONE														
DETAIL: UPDATE CONTROL STORE DISKETTE.														
													436	02 20 81
116														
27	E	33		none		877048	4468388	6827023		4969 Attachment	All w/o EC375474 and w/o EC877048	1.0	.7	
							6846482	6827023		4969 Attachment	All with EC375474 and w/o EC877048	1.0	.7	
			MSIR CODE _____										Parts Source and Anticipated Availability Date	
DETAIL: To release a new attachment card which eliminates the need for patch diskette P/N 6844675. Old Attachment card P/N 6844213, 6844615. New attachment card P/N 6845050.														
To change card P/N 6844616 to P/N 6845050 by replacing ROS modules 'A' and 'B', which eliminates the need for patch diskette P/N 6844675.														
													436	02 20 81

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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CEM

Engineering Change Announcements
Group 869
4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
117													
27	A	33		058	All	876784	4498704 4498705 4498705	1637980 1637981 4411355 4411355		Shp Grp Mod A Shp Grp Mod B Shp Grp Mod C Shp Grp Mod D	All 4953's w/o 876784	1.0 1.0	0.5 0.5
				SEE	CONCURRENT		4498711 4498712 4498713 4498714 4498714 4498714 4498715 4498715 4498715 4498715 4498715 4498716 4498717 4498719 4498720	1634791 8327706 1637561 1637582 1637586 6826403 1637583 1637584 1637588 8327201 1637585 6827113 4413769 1637846		4962 Attach GPIB Adapt Timer ASC 1 Line ASC 8 Line ASC RPQ D02236 BSC 1 Line (Med Spd) BSC 1 Line (Hi Spd) BSC 8 Line BSC RPQ D02198 SDLC 4966 Attach MCS 4982 Basic		0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
				MSIR CODE	D								Parts Source and Anticipated Availability Date Boca 09/80
DETAIL:													
The following FB/MS are to be installed if features are on your machine.													
This is a composite of EC's 375147, 375401, 375384 and 876784 which have been released to reduce the number of "as required" changes which were required as prerequisites to the field installation of additional features.													
436 02 20 81													
118													
27	E	33		None		375704	6844550	6841121		Data Entry Loop - Ship	All with FBM 6841121 w/o EC375704	1.0	1.0
				MSIR CODE									Parts Source and Anticipated Availability Date
DETAIL: Update diagnostic documentation, diskette P/N 6839513, control diskette P/N 6841625. Pick up REA 27-12390 and REA 27-12400 on diskette P/N 6839513. Pick up REA 27-12379 and REA 27-12446 on diskette P/N 6841625. Correct Misc. problems with MAPS 81D0 and 81DC.													
436 02 20 81													
119													
27	E	33		106		864314		6844236 6839335		8 Line Ship Grp D02350 EIA Full Duplex Cable	All w/o EC 375201	.5	.5
				MSIR CODE									Parts Source and Anticipated Availability Date
DETAIL: Purpose: Correct MAPs 81F5 and 81F2 by calling out the proper repair action. Corrects a typo on MAP 81F6. This EC is for RPQ D02350.													
This EC is released for records purpose only and will be picked up on EC 869549.													
449/08-21-81													
120													
27	E	33			ALL	864529	6846612	1637980 4411356 4411355 1637981		SHIP GROUP MOD A SHIP GROUP MOD B SHIP GROUP MOD C SHIP GROUP MOD D	ALL 4953s w/O EC 864529	1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0
				MSIR CODE	D								Parts Source and Anticipated Availability Date Boca 09/80
DETAIL: THIS EC UPDATES THE SYSTEM TEST, INCLUDES THE LATEST LIMITED VOCABULARY EDIT, CONVERTS THE PROGRAM LISTINGS TO MICROFICHE, INCLUDES 4969 SUPPORT, AND UPDATES OTHER MAINTENANCE DOCUMENTATION.													
449/08-21-81													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
121													
27	E	33		None		864399	4468379	6827023		4969 ATTACHMENT	ALL W/O EC 864399	.5	.5
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL:													
TO UPDATE THE 4969 DIAGNOSTICS, MAPS AND MLDs TO IMPROVE THE MAINTENANCE PACKAGE.													
449/08-21-81													
122													
27	A	33		106		864770	6847006	1637572		Serial Print Atch	All with B/M 1637572 and without EC 864770	0.5	0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL: CHECKPOINT: Previous level of MAP 6473 for EC 877041. PURPOSE: Update MAP 6473 to add support for new ribbon cartridge feature.													
449/08-21-81													
123													
27	E	33		117 120		877049	4469140	6827113		AUTO LOADER DISKETTE	ALL WITH FB/M 6827113 AND W/O EC 877049	1.0	0.7
THIS EC IS FOR SEQUENCE PURPOSES ONLY AND WILL BE PICKED UP ON EC 864660. MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL: PURPOSE: 4966 ATTACHMENT CARD UPDATE P/N 6846976													
449/08-21-81													
124													
27	A	33		106		864724	6847003	1637980 1637981 4411355 4411356		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00	ALL W/O EC 864724	0.5	0.5
MSIR CODE _____ Parts Source and Anticipated Availability Date													
COMPANION OR CONCURRENT: FB/M 6847004 must be installed concurrent if feature 4412522 is installed on your machine.													
DETAIL: CHECKPOINT: Diskette 1635278, EC 877041 PURPOSE: To correct mim references on 4978 MAPs.													
449/08-21-81													
125													
27	A	33		NONE		864728	6847005	1637980 1637981 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00	ALL W/O EC 864728	0.5	0.5
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL: PURPOSE: RELEASE ATTACHMENT STORAGE SYSTEM DISKETTE													
DESCRIPTION: PROVIDE A STORAGE SYSTEM DISKETTE AND USER'S GUIDE TO ALL SERIES/1 SYSTEMS WHEN REQUIRED BY DEVICES UTILIZING ATTACHMENT STORAGE.													
449/08-21-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
126													
27		33				869448					All 4953 and w/o 869448.		
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
<p>DETAIL: This EC is for record purposes only and will be picked up on EC 869314. Diagnostic update to provide testing for odd byte count and to correct misc. diagnostic errors.</p>													
449/08-21-81													
127													
27	E	33		118		869417	4468626	6841121		Data entry loop shipgrp.	All with B/M 6841121 and without EC 869417.	0.5	0.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
<p>DETAIL: Purpose: To update maps, logics and add parts catalog to ship group for RPQ's D02312 and D02314.</p>													
449/08-21-81													
128													
27	A	33		None		375172	6838624			Check and rewire power cord.	ALL W/O EC 375172	2.0	2.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
<p>DETAIL: PURPOSE: To insure line and neutral, as well as, color coding continuity is maintained to prevent inadvertent fusing of the neutral line. World Trade only.</p>													
449/08-21-81													
129													
27	E	33		112 116 125		869314	6847179	6827023		4969 Attachment	All 4953 w/o EC 869314 and with feature B/M 6827023.	0.5	0.5
			MSIR CODE _____		003	4969	869312			Parts Source and Anticipated Availability Date			
<p>DETAIL: Provides odd length write capability and diagnostic capability to support the odd length.</p>													
449/08-21-81													
130													
27	E	33		106 117		869519	6031228	8327308		Sys/370 Channel Atch	All with B/M 8327308 and w/o EC 869519	1.2	1.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
<p>DETAIL: Checkpoint: Diskette P/N 1635278 EC 864724 Diskette P/N 1635001 EC 876784 4953 Processor at EC 375597 (check EC history)</p> <p>Purpose: To install new S/1 - S/370 attachemtn card, P/N 4469031, to eliminate bus in parity errors after control unit busy.</p>													
449/08-21-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
131													
27	A	33		4969 003 120		869416	8529127	1637980 1637981 4411355 4411356		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00	ALL W/O EC 869416	0.5	0.5
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL: PREREQUISITES: EC 869312 - CHECKPOINT 4969 ADAPTER CARD P/N 4468367 EC 864529 - CHECKPOINT DISKETTE P/N 1635003													
PURPOSE: UPDATE SYSTEM TEST FOR 4969; CORRECT ERAP MODULE FOR RPS													
449/08-21-81													
132													
27	A	33		106		869549	6031244	6844236		8 Line Ship Group RPQ DO2350	ALL W/O EC 869549	0.5	0.2
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL: Prerequisites: EC 877041 checkpoint diskette p/n 1635278.													
Purpose: Correct problems with Ras package. This FB/M is a composite of E/C 869549 and 864314.													
449/08-21-81													
133													
27	A	33		112		987700	6031142	1637980 1637981 4411355 4411356 6031143		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 5250 ATTACH	ALL W/O EC 987700	0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.0
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
CONCURRENT: FB/M 6031143 FEATURE - 5250 ATTACH FTR B/M 6826371													
DETAIL: PURPOSE: SUPPORT 5225 PRINTER BY UPDATING DISKETTE P/N 1635002 AND INSTALLING MAINTENANCE DOCUMENTATION.													
449/08-21-81													
134													
27	E	33		133		869719	6846613	6826271		5250 ATTACH	ALL W/O EC 869719	0.5	0.5
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL: PURPOSE: PROVIDE CUSTOMER SUPPORT OF THE 5225 PRINTER TO CORRECT KATAKANA OPERATION. PROVIDE THE FUNCTION OF RETURNING THE CURSOR ADDRESS IN A PREVIOUSLY UNUSED FIELD OF SIE.													
449/08-21-81													
135													
27	A	33		None		869536	6081866			All 4953 ship groups	All 4953's	1.0	1.0
MSIR CODE _____													
Parts Source and Anticipated Availability Date													
DETAIL: Update system test to include support for local comm. controller, multifunction attach, 4965 and 4952 Mod C.													
458 12-23-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4953

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
136													
27	A	33		None		987681					Sequence purpose only. See EC 864647 ECA 142	0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:											458/12-23-81		
137													
27	D	33				987853	4413538	1637539 2706256		Elec/mech Final Assy.	All 4953 A, C's with FBM 1637539 or 2706256 w/o EC 987853.	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: To prevent the 5 VDC cable at the console gate from shorting.											458/12-23-81		
138													
27	E	33		None		869618	6081727	6827023		4969 Mag Tape Attachment	All 4969 tape attach. feature B/M 6827023 and w/o EC 869618	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: UPDATE THE MAINTENANCE DOCUMENTATION AND LOGICS.											458/12-23-81		
139													
27	A	33				869592				Sequence purposes only. See EC 864647 ECA 142		0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:											458/12-23-81		
140													
27	E	33		None		987967	6081891	1637586		ASYNCH Comm. 8-line control	All with FB/M 1637586 and EC 375666 and without EC987967	0.2	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: Provide field information bulletin (FIB) providing temporary corrections for known problems in the ASYNCH 8-line control feature.											458/12-23-81		
141													
27	A	33		None		864591	6023546	6837367		Prog. 4-line comm.	All with FB/M 6837367 and without EC 864591	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To improve current loop receiver electrical isolation. This update has no effect on receivers used in EIA configuration. (Card P/N 6846874)											458/12-23-81		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
142														
27	A	33		None		864647	4498924	8327706		GPIB adaptor	All w/o EC 864647.	0.5	0.5	
							4498925	6825474		S/1 attachment MA		0.5	0.5	
							6195737	6825469		S/1 attachment SL		0.5	0.5	
							6195738	6827023		4969 attachment		0.5	0.5	
							6195739	6841121		Data entry loop		0.5	0.5	
										All ship groups for 4953		0.5	0.5	
MSIR CODE _____											Parts Source and Anticipated Availability Date			
DETAIL: B/M 4498924 replaces GPIB adaptor card (P/N 6841583) with new card (P/N 6030909). Fixes problems with read/write commands. B/M 4498925 add patch diskette to machines with RPQ D02241 or RPQ D02242 and replace attachment card P/N 6841583. B/M 6195737 provide IPL capability for 4969 patch diskette from 4952C or 4965. B/M 6195738 provide IPL capability for data entry loop patch diskette. B/M 1695739 provide IPL capability for master patch diskette from 4952C and 4965.													458/12-23-81	
143														
27	A	33		117 120		864660	6195777	6827113		Autoloader diskette	All w/o EC 864660 with feature B/M 6827113	1.0	0.7	
MSIR CODE _____											Parts Source and Anticipated Availability Date			
DETAIL: Installs new 4966 attachment card. Corrects machine checks caused by a timing problem in the attachment. This EC picks up EC375656 and Ec 877049. Old P/N New P/N 6839345 6846980 6839724 6840513 6840515 6841959 6846976													458/12-23-81	
144														
27	E	33		None		987965	6081865	6837366		Prog. 8-line comm.	All with FB/M 6837366 and without EC 987965	0.2	0.0	
MSIR CODE _____											Parts Source and Anticipated Availability Date			
DETAIL: Purpose: Paper change only. Field information bulletin (FIB), logic pages.													458/12-23-81	
145														
27	A	33		120		869713	6060728	6837366		Prog. 8 line comm.	All with FB/M 6837366 and without EC 869713	1.0	0.7	
MSIR CODE _____											Parts Source and Anticipated Availability Date			
DETAIL: Purpose: To install card P/N 4498902. This EC corrects a receive mode problem, DCB reject of interrupt condition, and loss of controller end.													458/12-23-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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ECA 146 EC 988060 6-16-82
 Mandatory _____ SERVICE CODE 33 _____
 Auto shipped from _____ Boca Raton _____

AVAILABLE _____ 5/15/82 _____

PURPOSE: To install improved asynchronous direct connect RS 422-A 8-line adapter (RPO D02350) card.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844228	RS 422 8-line adapter	6023599	1.0	.7	6023599	120	864529	Sys test diskette P/N 1635003

COMPANION: None

CONCURRENT: None

DETAIL: Corrects problems which existed in reading individual data lines with communications console and diagnostic commands.

Prev P/N 6844733
 6846493
 New P/N 6042111

ECA 147 EC 323266 6-16-82
 Mandatory _____ SERVICE CODE 33 _____
 Auto shipped from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update diagnostic documentation and diskette for DCI, RPO D02312/2313/2314.

PREREQUISITES: EC 869417

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	RPO D02312/2313/2314	6060748	1.0	0.5	6060748	127	869417	Map 81D0 at EC 869417

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation and replace diskette P/N 6839513 for DCI, RPO D02312/2313/2314.

ECA 148 EC 994399 6-16-82

As required _____ SERVICE CODE 33 _____

Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update system test diskette.

PREREQUISITES: EC 869536

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic diagnostic ship group	6023613	1.0	1.0	6023613	135	869536	

COMPANION: None

CONCURRENT: None

- DETAIL:
1. Add alternate console control to acca single line and multiline.
 2. Add test module for X.21 interface.
 3. Update system test exercisors to correct misc. errors for: MFA, 4952C/4965 diskette, 4963.
 4. Update FRIEND modules to correct errors in: 4966 and 4962 routines.
 5. Update ERAP to accept new features and recognize ACCA console support.

ECA 149 EC 994400 6-16-82

As required _____ SERVICE CODE 33 _____

Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: To update CPU maintenance package to EC994400

PREREQUISITES: EC876784

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	6069669	0.5	0.5	6069669	117	876784	Diskette P/N 1635001, EC876784, or EC869422, or EC987889.

COMPANION: None

CONCURRENT: None

- DETAIL:
- Improved CPU diagnostics, add support for X.21, correct problems for 4955F SVT and correct problems in FOE5 for MFA.



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ECA 150 EC 323396 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update 4963 maintenance documentation.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4412759	4963 Attachment	6042267	0.5	0.0				

COMPANION: None

CONCURRENT: None

DETAIL: Update 4963 maps and logic pages.

ECA 151 EC 994418 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update RS422 (RPQ D02350) attachment maintenance package

PREREQUISITES: EC869549

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844236	8 LN ship group RPQ D02350	6069304	0.6	0.5	6069304	132	869549	Diskette P/N 6842559

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation

ECA 152 EC 988042

6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Replace diskette P/N 1635002 and update maintenance documentation.

PREREQUISITES: EC987700

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES:			CHECK POINT
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	
All	6826371	5250 Attach	6060935	.5	.5	6060935- 6061023	133	987700	Diskette P/N 1635002 at EC987700.
All	6826371	5250 Attach	6060936	.5	.0				
All	1637582	ACCA S/L (F/C 1610)	6061016	.5	.0				
All	1637583	BSCA S/L (F/C 2074)	6061017	.5	.0				
All	1637584	BSCA S/L (F/C 2075)							
All	1637585	SDL C S/L (F/C 2090)	6061018	.5	.0				
All	1637586	ACCA M/L (F/C 2091)	6061019	.5	.0				
All	1637588	BSCA M/L (F/C 2093)	6061020	.5	.0				
All	6844227	PMLC M/L (F/C 2095)	6061021	.5	.0				
All	4468900	Custom Adapter (D02318)	6061022	.5	.0				
All	6846706	BSCA Direct (D02349)	6061023	.5	.0				

COMPANION: None

CONCURRENT:

DETAIL:

1. Update 5250 diagnostics.
2. Update 5250 maintenance package to include 5224 printer.
3. Update F/C 1610/2074/2075/2090/2091/2093/2095 RPO D02318/D02349 to eliminate processor dependency.

ECA 153 EC 869711

6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

4/25/82

PURPOSE: To install improved asynchronous communication 8-line control feature card.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES:			CHECK POINT
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	
All	1637586	Asynchronous 8-line communication control	6060993	1.0	0.7	6060993	120	864529	Sys test diskette P/N 1635003

DETAIL:

Corrects controller end and lost device reset problem.

Previous P/N	New P/N
6841989	4498900
6840560	
6826147	
4411886	

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ECA 154 EC 987928 6-16-82
 Mandatory _____ SERVICE CODE 33 _____
 Auto shipped from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Reverse mounting brackets holding the modem card assembly. Update diagnostic diskette.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES: None			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826405 6847115	RPO D02049 RPO D02049 Canada	6060979	1.0	0.7				

COMPANION: None

CONCURRENT: None

DETAIL: Update diagnostic diskette P/N 6847128 is installed. The mounting brackets holding the modem card assembly will be reversed to prevent problems when plugging the card into card file.

ECA 155 EC 466924 6-16-82
 As required _____ SERVICE CODE 33 _____
 Order from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update maintenance package to unbundle 4987 data set cables from device attachment feature cards.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	PREREQUISITES:			
						TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4411549	PCM Controller	6069694	0.5	0.0	6069694	082	375469	MAP E000 P/N 4414450

COMPANION: None

CONCURRENT: 4987 EC466924 ECA006

DETAIL: Add new feature codes for 4987 data set cables. Add check for cables and test only supported part numbers.

ECA 156 EC 987768 6-16-82

As required SERVICE CODE 33

Order from Boca Raton

AVAILABLE 4/30/82

PURPOSE: To correct channel hang on host processor.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	B/M8327208	System 370/channel attach.	6069241	1.0	1.0	6069241	124	864724	Diskette P/N 1635278
							117	876784	Diskette P/N 1635001
							100	375597	EC history

COMPANION: None

CONCURRENT: None

DETAIL: Series/1 370/channel attach involved in short control unit busy sequence will hang host processor channel. This failure will occur when multiple control units are installed on a channel.

Previous P/N	New P/N
6842481	6069404
6844238	

ECA 157 EC 323285 6-16-82

Mandatory SERVICE CODE 33

Auto shipped from Boca Raton

AVAILABLE _____

PURPOSE: Update Feature 1310 (MFA) maintenance package and diskettes.

PREREQUISITES: EC988013 (factory only)

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844066	Feature 1310, MFA	6061145	1.0	.8	6061145	159	466795	Diskette P/N 1635001

COMPANION: None

CONCURRENT: None

DETAIL: 1. This EC provides new MFA initial diskette and MFA diag. diskette P/N 6031185 and P/N 6031186.
2. This EC provides new MFA MAPs.

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ECA 158 EC 323259 6-16-82

As required SERVICE CODE 33

Order from Boca Raton

AVAILABLE

PURPOSE: Update RPQ D02312, DCI, Loop Driver Card.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	DCI, RPQ D02312/ D02313/D02314	6060850	1.0	1.0				

DETAIL:

This EC replaces Loop Driver Card P/N 6844610 with new P/N 6060849. This card fixes problems:

1. On loops which have a large amount of interactivity in process and also have loop resync's occurring, the possibility exists for the loop terminals being dropped into an off line mode.
2. The yellow light on the loop terminals can continue to show a transaction in progress if the operator terminates the transaction while a message is still present in the output buffer.

ECA 159 EC 466795 6-16-82

As required SERVICE CODE 33

Order from Boca Raton

AVAILABLE 3/15/82

PURPOSE: To update CPU maintenance package

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	4772216	1.0	0.5	4772216	149	994400	Diskette P/N 1635001 at 994400
							148	994399	Diskette P/N 1635003 at 994399
						If applicable		864724	Diskette P/N 1635278 at 864724
								877036	Diskette P/N 6826999 at 877036
								869592	Diskette P/N 6847217 at 869592
								869448	Diskette P/N 6838871 at 869448

DETAIL:

Improve diagnostic package for timers, integrated DI/DO, 4962, 4963, 4964, 4966, 4969, 4973, 4974, 4978, 4979, LCC, SDLC, BSC and TTY. Adds console support for MFA/7485.

ECA 160 EC 466957 6-16-82

Mandatory

SERVICE CODE 33

Auto shipped from

Boca Raton

AVAILABLE

PURPOSE: Update the D02288 maintenance package.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6069145	Basic ship group	4772030	0.5	0.3		None		

COMPANION: None

CONCURRENT: None

DETAIL:

Revise test units and MAPS to provide support for multiple types of terminals.

ECA 161 EC 326794 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Provide universal terminal support on the 5250 attachment, feature 1210.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	Feature 1210, 5250 attachment	4745831	.5	.5	4745831	152	988042	Diskette P/N 163002

COMPANION: None

CONCURRENT: None

DETAIL:

This EC provides a new 5250 init. diskette, P/N 6826590 to include support for the 5291 terminal.

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ECA 001 EC 466957 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto Shipped From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update the D02288 maintenance package

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6069145	Basic ship group	4772030	0.5	0.3				

COMPANION: None

CONCURRENT: None

DETAIL: Revise test units and MAPs to provide support for multiple type of terminals.

ECA 002 EC 326794 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Provide universal terminal support on the 5250 attachment, feature 1210.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	Feature 1210, 5250 attachment	4745831	.5	.5	4745831		988042	Diskette P/N 163002

COMPANION: None

CONCURRENT: None

DETAIL: This EC provides a new 5250 init. diskette, P/N 6826590 to include support for the 5291 terminal.

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time												
								Feature B/M #	Seq #	Description of Feature		Man	Sys											
1																								
27	E	33		NONE	A	578533	1636865	1637552		ELEC/MECH. FINAL ASM MOD. 4	ALL 4955 MDLS. A AND B	2.0	2.0											
27	E	33		NONE	B	578533	1636865	1637555		ELEC/MECH. FINAL ASM MOD. B	W/O EC578533	2.0	2.0											
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date 9/16/77																								
DETAIL:																								
SAFETY																								
PURPOSE: TO ISOLATE POWER SUPPLY PRIMARY TRANSFORMERS FROM FAN FAILURES AND VICE VERSA.																								
CHECKPOINT: CHECK TO SEE IF THE ABOVE EC NUMBER IS STAMPED ON THE POWER SUPPLY EC LABEL. ALSO CHECK FOR ABSENCE OF A METAL JUMPER BETWEEN TB1-7 AND TB1-8. 356/10-21-77																								
2																								
27	E	33		SEE NOTE	ALL	578573	1636857	1634791 1637753 1637983		B/M DISK ATTACH D/C 3850 SHIP GROUP FEATURE B/M 4955 AOO SHIP GROUP FEATURE B/M	ALL 4955 MDL W/O EC578573	0.5	0.5											
MSIR CODE <u> D </u> Source and Anticipated Availability Date																								
<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> THIS ECA IS CANCELLED REFER TO ECA 018 431/12-5-80 </div> CONCURRENT B/M 5572859, EC 431/12-5-80																								
DETAIL:																								
PURPOSE: TO REMOVE THE DISK ATTACHMENT CARD AND REPLACE IT WITH A DUTCHESS LEVEL ATTACHMENT CARD TO MATCH THE 4962 WHICH IS BEING UPDATED ON THE CONCURRENT B/M.																								
PREREQUISITE: EC 578486 (NOTE: THIS EC IS INSTALLED ON ALL MACHINES)																								
CARD REPLACEMENT DATA: <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border-bottom: 1px solid black; padding: 0 5px;">REA</td><td style="border-bottom: 1px solid black; padding: 0 5px;">OLD P/N</td><td style="border-bottom: 1px solid black; padding: 0 5px;">NEW P/N</td></tr><tr><td style="padding: 0 5px;">27-10782</td><td style="padding: 0 5px;">4411070</td><td style="padding: 0 5px;">4410722</td></tr><tr><td></td><td style="padding: 0 5px;">4410722</td><td></td></tr><tr><td></td><td style="padding: 0 5px;">1635772</td><td></td></tr></table> 358/11-19-77													REA	OLD P/N	NEW P/N	27-10782	4411070	4410722		4410722			1635772	
REA	OLD P/N	NEW P/N																						
27-10782	4411070	4410722																						
	4410722																							
	1635772																							
3																								
27	E	33		NONE	ALL	387078	1636851	1637584		B/M BSCA 1 LN ADAP HI-SP DEVICE CODE 2075	ALL 4955 WITH B/M 1637584 WITHOUT EC 387078	1.0	0.7											
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date																								
<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> THIS ECA IS CANCELLED REFER TO ECA 048 431/12-5-80 </div>																								
DETAIL:																								
PURPOSE: TO INSTALL IMP																								
CHECKPOINT: BSCA CARD P/N 4411742 EQUALS EC 387078 INSTALLED. (ALSO CHECK MACHINE HISTORY)																								
CARD REPLACEMENT DATA: <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border-bottom: 1px solid black; padding: 0 5px;">REA</td><td style="border-bottom: 1px solid black; padding: 0 5px;">OLD P/N</td><td style="border-bottom: 1px solid black; padding: 0 5px;">NEW P/N</td></tr><tr><td></td><td style="padding: 0 5px;">4411834</td><td style="padding: 0 5px;">4411742</td></tr><tr><td></td><td style="padding: 0 5px;">4413328</td><td></td></tr><tr><td></td><td style="padding: 0 5px;">4413234</td><td></td></tr></table> 358/11-19-77													REA	OLD P/N	NEW P/N		4411834	4411742		4413328			4413234	
REA	OLD P/N	NEW P/N																						
	4411834	4411742																						
	4413328																							
	4413234																							
4																								
27	E	33		NONE	A	386988	1636906	1637552		B/M ELEC/MECH FINAL ASSM AOO	ALL 4955 MDLS A,B,C & D	0.5	0.5											
					B	386988				ELEC/MECH FINAL ASSM AOO	W/O EC386988	0.5	0.5											
					C	386988				ELEC/MECH FINAL ASSM AOO		0.5	0.5											
					D	386988	1636906	4411370		4955 COO B/M ELEC/MECH FINAL ASSM 4955 DOO		0.5	0.5											
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date																								

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

4 continued

DETAIL:

PURPOSE: UPDATE ALL INSTALLED 4955 SYSTEMS TO THE LEVEL REQUIRED TO SUPPORT FEATURE B/M 1637563, EC 578900, FLOATING-POINT PROCESSOR. THIS B/M 1636906 REPLACES THE 4955 ROS CARD WITH A NEW ROS CARD P/N 4411760 WHICH HAS MICROCODE CHANGES TO ACCOMPLISH THE ABOVE PURPOSE.

MACHINES AFFECTED CHECKPOINT: ROS CARD P/N 4411760 EQUALS EC 386988 INSTALLED (ALSO CHECK MACHINE HIST).

CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 27-11275 4411078 4411760
 4413388
 4413280

358/11-19-77

27	E	33		NONE	A & B	576733	1636852	1637585		B/M SDLC SINGLE LN CNTRL DEVICE CODE 2090	ALL 4955 MDL A & B WITH B/M 1637585 WITHOUT EC 576733	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED SDLC CARD P/N 4411022.

CHECKPOINT: SDLC CARD P/N 4411022 EQUALS EC 576733 INSTALLED. (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 27-10892 1635595 4411022
 1634060
 1634007

358/11-19-77

27	E	33		NONE	ALL	578591	1636850	1637588		B/M BSCA 8 LINE CONTROL- LER DEVICE CODE 2093	ALL 4955 WITH B/M 1637588 WITHOUT EC 578591	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
 REFER TO ECA 050
 431.12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED BSCA 8 LINE FEATURE CARD P/N 4411852.

CHECKPOINT: BSCA 8 LINE FEATURE CARD P/N 4411852 EQUALS EC 578591 INSTALLED. (ALSO CHECK MACHINE HIST)

CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 4411884 4411852
 4413396
 4413351

358/11-19-77

27	E	33		004	ALL	578900	1636907	1637563		B/M FLOATING POINT DEVICE CODE 3920	ALL 4955 WITH FLOATING POINT FEATURE B/M 1637563 WITHOUT EC 578900	1.0	1.0
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL NEW FLOATING POINT FEATURE CARD P/N 4413759

PREREQUISITE: EC 386988

CHECKPOINT: PROCESSOR ROS CARD P/N 4411760 EQUALS EC 386988 INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 27-11228 4411912 4413759
 4411911
 4411892

358/11-19-77

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

27	E	33		NONE	ALL	578590	1636849	1637586		B/M ACCA 8 LINE CONTROL D/C 2091	ALL 4955 WITH B/M 1637586 WITHOUT EC 578590	1.0	0.7
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MSIR CODE D

THIS ECA IS CANCELLED
REFER TO ECA 049
431/12-5-80

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 8 LINE FEATURE CARD P/N 4411886.

CHECKPOINT: ACCA 8 LINE FEATURE CARD P/N 4411886 EQUALS EC 578590 INSTALLED (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	27-11088	4410726	4411886
		4413352	
		1634006	

358/11-19-77

27	E	33		002 003 004 005 006 007 008	ALL	578625	1636905			4955 ALL MODELS	ALL 4955 WITHOUT EC 578625	1.5	1.5
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MSIR CODE D

OR

Parts Source and Anticipated Availability Date

CONCURRENT: 4982 ECA 002, 4959 ECA 007 (EC 578625)

DETAIL:

PURPOSE: TO UPDATE THE SERIES/1 MAINTENANCE PACKAGE TO EC 578625. THIS IS A COMPOSITE B/M AND UPDATES MAINTENANCE DOCUMENTATIONS FOR 4955, 4978, 4964, TTY ATTACH., TIMER, 4997 POWER DISTRIBUTION, 300 WATT SUPPLIES AND SYSTEM TEST/FRIEND TEST DOCUMENTATION.

- PREREQUISITES:
- ECA 002 - EC 578573 VERIFY 4962 ATTACH CARD P/N 4410723
 - ECA 003 - EC 387078 VERIFY BSCA 1 LINE CARD P/N 4411742
 - ECA 004 - EC 386988 OR REA 27-11004 VERIFY ROS CARD P/N 4411760 OR 4411078
 - ECA 005 - EC 576733 VERIFY SDLC 1 LN CARD P/N 4411022
 - ECA 006 - EC 578591 VERIFY BSCA 8 LINE CARD P/N 4411852
 - ECA 007 - EC 578900 OR REA 27-11228 VERIFY FLOATING POINT CARD P/N 4413759
 - ECA 008 - EC 578590 VERIFY ACCA 8 LINE CARD P/N 4411886

NOTE TO CE: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 578625 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAK DOWN OF THESE B/Ms. B/M 1636905 CONTAINS INSTALLATION INSTRUCTIONS FOR ALL B/Ms ON EC 578625.

360/12-23-77

27	E	33		009	ALL	754954	1636895	1634793		B/M 4979 DISPLAY STATION ATTACH D/C 2956	ALL 4955 WITH B/M 1634793 WITHOUT EC 754954 WITH REA 27-11545	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 032
431.12-5-80

2706290 1634793

B/M 4979 DISPLAY STATION ATTACH D/C 2956

ALL 4955 WITH B/M 1634793 WITHOUT EC 754954 WITH REA 27-11545

0.2 0.0

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

10 continued

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD P/N 4413921.

PREREQUISITE: EC 578625, ECA 009

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	27-11545	4411535	4413921
		4413256	4411535
		1635707	4413256

361/01-13-78

11

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	Feature B/M #	Seq #	Description of Feature	Machines Affected	Man	Sys
27	E	33		009 010	ALL	578757	1636940	1637753		B/M SHIP GROUP 4955 MOD A00	ALL 4955	1.0	0.7
								1637983		B/M SHIP GROUP 4955 MOD B00			(NOTE 1)
								4411367		B/M SHIP GROUP 4955 MOD C			
								4411368		B/M SHIP GROUP 4955 MOD D			
							1636941	4412987		B/M 4973 LINE PRINTER ATTACH D/C 5630			
							1636942	1637572		B/M 4974 SERIAL PRINTER ATTACH D/C 5620			
							1636943	1637585		B/M SDLC SINGLE LINE CONTROLLER D/C 2090			
							1636944	1637563		B/M FLOATING POINT D/C 3920			
							1636945	1634791		B/M 4962 DISK ATTACH D/C 3580			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: EC 754862, ECA 012

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTIONS FOR THIS EC ARE INCLUDED ON THE CONCURRENT FBM (EC 754862, ECA 012).

PREREQUISITE: EC 578625, ECA 009 AND EC 754954, ECA 010.

NOTE 1: THIS TIME REFLECTS TIME REQUIRED TO INSTALL BOTH ECA 011 AND ECA 012.

361/01-13-78

12

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	Feature B/M #	Seq #	Description of Feature	Machines Affected	Man	Sys
27	E	33		009 010	ALL	754862	1636948	1637753		B/M SHIP GROUP 4955 MOD A00	ALL 4955	1.0	0.7
								1637983		B/M SHIP GROUP 4955 MOD B00			(NOTE 1)
								4411367		B/M SHIP GROUP 4955 MOD C			
								4411368		B/M SHIP GROUP 4955 MOD D			
							1636946	4412522		B/M 4978 DISPLAY ATTACH D/C D02038			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: EC 578757, ECA 011

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTIONS FOR CONCURRENT EC 578757 ARE INCLUDED WITH THIS EC.

PREREQUISITE: EC 578625, ECA 009 AND EC 754954, ECA 010

NOTE 1: THIS TIME REFLECTS TIME REQUIRED TO INSTALL BOTH ECA 011 AND ECA 012

361/01-13-78

13

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	Feature B/M #	Seq #	Description of Feature	Machines Affected	Man	Sys	
27	E	33		NONE	ALL	578914	163	THIS ECA IS CANCELLED REFER TO ECA 048 431/12-5-80			LINE FEATURE	ALL 4955 WITH B/M 1637584 WITHOUT EC 578914	1.0	0.7

MSIR CODE D

Parts Source and Anticipated Availability Date

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

17

27	E	33		NONE	ALL	754946	1636912	4411092		B/M SHIP GROUP RPQ D02014	ALL 4953 WITH B/M 4411071 & W/O EC 754946	0.5	0.5
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MSIR CODE D Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO ADD EXERCISER TEST PROGRAM 8013 TO DIAGNOSTIC PACKAGE FOR FEATURE B/M 4411071 (AUTO-CALL).
 CHECKPOINT: RPQ DISKETTE (PN 441422) AT EC 578761 EQUALS AUTO-CALL FEATURE INSTALLED (ALSO CHECK MACHINE HISTORY). 366/03-24-78

18

27	E	33		NONE	ALL	578886	2706296	1634791		B/M DISK ATTACHMENT D/C 3580	ALL 4955 WITH B/M 1634791 & W/O EC 578886	1.3	1.0
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MSIR CODE D Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4962 DISK ATTACHMENT CARD - D/C 3580.
 CHECKPOINT: 4962 FEATURE CARD P/N 4411694 EQUALS EC 578886 AS BEING INSTALLED (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
	2710872	4410723	4411694
		1554447	
	2710933	4411070	

366/03-24-78

19

27	E	33		012	ALL	754882	0712251 0712252 0712253 0712254 0712255	1637753 1637983 4411367 4411368 1637563		B/M SHIP GROUP 4955-A B/M SHIP GROUP 4955-B B/M SHIP GROUP 4955-C B/M SHIP GROUP 4955-D B/M FLOATING POINT	All 4955 W/O EC 754882	2.0	0.5
					SEE CONCURRENT:		5892424 5892425 5892426 5892427 5892428 5892429 5892430 5892431	1634791 1634793 1634795 1637561 1637565 1637572 1637582 1637583 1637584	OR	B/M DISK ATTACH 4962 B/M DISPLAY ATTACH 4979 B/M SIO ATTACH 4982 B/M TIMER B/M OEM/DPC B/M PRINTER ATTACH 4974 B/M ACCA 1 LN CNTRL B/M BSCA 1 LN MED-SPD B/M BSCA 1 LN HI-SPD			
							5892432 5892433	1637585 1637586 1637587	OR	B/M SDLC 1 LN CNTRL B/M ACCA 8 LN CNTRL B/M ACCA 4 LN ADAPTER B/M BSCA 8 LN CNTRL B/M DI/DO NON-ISO ATT. B/M DISPLAY ATTACH 4978 B/M TTY ATTACH B/M PRINTER ATTACH 4973			

MSIR CODE D Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED ON YOUR 4955 OR 4959. ALSO SEE NOTES 2,3 AND 4.

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS
 CHECKPOINT: DIAGNOSTIC DISKETTES (4-6) AT EC 754882 EQUALS EC 754882 (ALSO CHECK MACHINE HISTORY).
 NOTE 1: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 754882 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAKDOWN OF THESE B/Ms.
 NOTE 2: IF YOU HAVE A 4982 INSTALLED, ONE OR MORE OF THE FOLLOWING FB/Ms MUST BE INSTALLED.

FB/M	FEATURE	FEATURE B/M
5889135	ANALOG FTRS.	1637577 OR 1637578 OR 1637579 OR 167580 OR 1637581

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

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NOTE 3: IF YOUR SYSTEM IS INSTALLED IN A 4997 RACK, THE FOLLOWING B/M MUST BE INSTALLED:

FB/M	FEATURE	FEATURE B/M
5889138	4997 RACK	1634585 OR 1634586

NOTE 4: IF YOUR SYSTEM CONFIGURATION INCLUDES A 4999 BBU, THE FOLLOWING B/M MUST BE INSTALLED:

FB/M	FEATURE	FEATURE B/M
5889139	4999 BBU	1637992 OR 4411362

366/03-24-78

20

27	A	33		069	ALL	754868	2706287	1637570		B/M DISKETTE ATTACHMENT D/C 3581	ALL 4955 WITH B/M 1637570 & W/O EC 754868	1.0	0.7
MSIR CODE <u>z</u>						Parts Source and Anticipated Availability Date							

DETAIL:

PURPOSE: TO INSTALL IMPROVED DISKETTE ATTACHMENT CARD. THIS IS AN AS REQUIRED EC FOR DISKETTE (4962) FAILING TO COME READY.

PREREQUISITE: EC 578625, ECA 009

CHECKPOINT: DISKETTE ATTACHMENT FEATURE CARD P/N 4413828 EQUALS EC 754868 INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA:	REA	OLD P/N	NEW P/N
		2710555	4413240
		2710686	4413298
	EC ONLY	4413298	4413298

367/04-07-78

21

27	E	33		009	ALL	754957	1636897	4412989		4979 DISPLAY STATION DEVICE CODE = 2964 OR 2971 FRENCH OR BELGIUM	4955 ALL MOD-ELS WITHOUT E/C 754957 AND WITHOUT REA 27-11548	1.0	.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							

THIS ECA IS CANCELLED
REFER TO ECA 041
431/12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR FRENCH OR BELGIUM.

PREREQUISITE: EC 578625 ECA #009

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413924 EQUALS EC 754957 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT:	OLD P/N	NEW P/N
	4411537	4413924

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL.

373/06-30-78

22

27	E	33		009	ALL	754939	1636899	4412991		4979 DISPLAY STATION ATTACH DEVICE CODE = 2967 SWEDEN	4955 ALL MOD-ELS WITHOUT E/C 754939 AND WITHOUT REA 27-11550	1.0	.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							

THIS ECA IS CANCELLED
REFER TO ECA 044
431/12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR SWEDEN.

PREREQUISITE: EC 578625 ECA #009

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413900 EQUALS EC 754939 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT:	OLD P/N	NEW P/N
	4411536	4413900

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

22 continued

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

27	E	33		009	ALL	754955	1636916	4411375		4979 DISPLAY ATTACH DEVICE CODE = 2958 ENGLISH (UNITED KINGDOM)	4955 ALL MOD- ELS WITHOUT E/C 754955 AND WITHOUT REA 27-11546	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 043
431/12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR ENGLAND (U.K.).
 PREREQUISITE: EC 578625 ECA #009
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413922 EQUALS EC 754955 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT: OLD P/N NEW P/N
 4411523 4413922

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

27	E	33		009	ALL	754956	1636896	4412988		4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	4955 WITHOUT EC 754956 & WITHOUT REA 27-11547	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 040

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FE431/12-5-80RD FOR GERMAN LANGUAGE.
 PREREQUISITE: EC 578625 ECA #009
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413923 EQUALS EC 754956 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT: OLD P/N NEW P/N
 4411524 4413923

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

27	E	33		009	ALL	754958	1636898	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE = 2955 OR 2968 OR 2970 FRENCH OR ITALIAN OR JAPANESE	4955 ALL MOD- ELS WITHOUT E/C 754958 AND WITHOUT REA 27-11549	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 042
431/12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR FRANCE, ITALY OR JAPAN.
 PREREQUISITE: EC 578625 ECA #009
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413925 EQUALS EC 754958 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT: OLD P/N NEW P/N
 4411538 4413925

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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CEM Engineering Change Announcements Group 869 4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

26													
27	E	33		011		578960	1636917	4412987		LINE PRINTER 4973 D/C 5630	ALL 4955 WITH B/M 4412987 AND WITHOUT EC 578960	1.0	0.7
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> THIS ECA IS CANCELLED REFER TO ECA <u>068</u> </div>													
MSIR CODE <u>D</u> 431/12-5-80 Parts Source and Anticipated Availability Date													

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4973 FEATURE CARD P/N 4411775.
 PREREQUISITE: EC 578757, ECA 011
 CHECKPOINT: CHECK 4973 ATTACHMENT CARD P/N 4411775 EQUALS EC 578960 INSTALLED.
 CARD REPLACEMENT: OLD P/N NEW P/N
 4413134 4411775

373/06-30-78

27													
27	E	33		019	ALL	755243	0712280	1637753 1637983 4411367 4411368		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00	All 4955's W/O EC 755243	.8	.5
NOTE #1 { 0712281 1637582 Start/Stop 1 Line .2 .0 0712282 1637583 BSCA 1 Line Adap. Med Spd .2 .0 0712282 1637584 BSCA 1 Line Adap. Hi Spd 0712283 1637586 Async Comm 8 Line Ctrl .2 .0 0712284 1637588 BSCA 8 Line Ctrl .2 .0													
MSIR CODE <u>D</u> Parts Source and Anticipated Availability Date													

DETAIL:

Purpose; To Install Improved Diagnostic
 Discription; Replace Diskette P/N 1635002 To Support Map Changes And Replace System Test Diskett P/N 1635003.
 Pre-Requisite; ECA 018 - EC 754882
 Checkpoint; Diskette P/N 1635003 At EC 755104 Equals This EC 755243 Is Installed (Also Check Machine History)
 Note #1; B/M(s) Will Be Included Only If Your System Contains Any Of These Featres.

377/09-01-78

28													
27	E	33		18		755331	712297	1637753 1637983 4411367 4411368		B/M SHIP GROUP 4955 A B/M SHIP GROUP 4955 B B/M SHIP GROUP 4955 C B/M SHIP GROUP 4955 D	ALL 4955s W/O EC 755331	0.5	0.3
712299 1637561 B/M TIMER 0.2 0.0 712298 1637583 BSCA 1 LN ADAP MED SP 0.2 0.0 1637584 BSCA 1 LN ADAP HI SP 1637588 BSCA 8 LN CONTROLLER 4978 ATTACHMENT 0.3 0.0													
MSIR CODE <u>D</u> Parts Source and Anticipated Availability Date 8/78													

DETAIL:

1. DCP AND CONFIGURATION PROGRAMS ARE UPDATED TO ALLOW RPQ USE OF BASIC DIAGNOSTICS. RPQS THAT USE BASIC DIAGNOSTICS CAN NOW HAVE A DOUBLE ENTRY IN CONFIGURATION TABLE.
2. INSTALLS IMPROVED DOWN LINE DIAGNOSTICS FOR COMMUNICATION FEATURES.
3. UPDATES DIAGNOSTICS FOR TIMERS.
4. UPDATE 4978 DIAGNOSTICS TO IMPROVE DIAGNOSTIC ALTERNATE CONSOLE OPERATION.

NOTE: B/M 712297 WILL SHIP TO ALL MACHINES. THE OTHER BILLS WILL SHIP TO THOSE MACHINES HAVING THE AFFECTED FEATURES. ALL BILLS AFFECTING YOUR MACHINE MUST BE INSTALLED CONCURRENTLY.

377/09-01-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

29

27	E	33		NONE	ALL	755088	712265	4412940		TTY ADAPTER	4955 WITHOUT REA27-11643 & WITHOUT EC 755088 4955 WITH REA27-11643 & WITHOUT EC 755088	1.0	0.7
							712289	4412940		TTY ADAPTER		0.1	0.0

MSIR CODE D

THIS ECA IS CANCELLED
REFER TO ECA 081
431/12-5-80

Parts Source and Anticipated Availability Date ROCH 10/78

DETAIL:

PURPOSE: TO INSTALL AN IMPROVED TTY FEATURE CARD. THE NEW CARD DECREASES THE POSSIBILITY OF OVERRUNS BY USING A SINGLE CHARACTER BUFFER.

CHECKPOINT: TTY ADAPTER CARD P/N 4414864 AND LOGIC PAGE SD105 AT 755088 EQUALS THIS EC INSTALLED.

CARD REPLACEMENT: OLD P/N NEW P/N
4413262 4414864

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30

27	E	33		28	ALL	755285	0712315	1637753 1637983 4411367 4411368		B/M SHIP GROUP 4955 A B/M SHIP GROUP 4955 B B/M SHIP GROUP 4955 C B/M SHIP GROUP 4955 D	ALL 4955s W/O EC 755285	0.5	0.3
							0712316 0712317 0712318 0712319 0712320 0712321	1637570 1637572 1634791 4412987 4412522 1634793		DISKETTE ATTACH. SERIAL PRINTER ATTACH. DISK ATTACH 4973 PRINTER ATTACH. DISPLAY ATTACH 4978 DISPLAY ATTACH 4978 DISPLAY ATTACH UK DISPLAY ATTACH GERMAN DISPLAY ATT FRENCH/BELG DISPLAY ATT FR/ITAL/JAP/UK DISPLAY ATTACH SWEDEN		0.2 0.2 0.4 0.2 0.3 0.2	0.0 0.0 0.0 0.0 0.0 0.0

MSIR CODE D

Parts Source and Anticipated Availability Date 8/78

DETAIL:

1. UPDATES 4962 DISK DIAGNOSTICS TO INCLUDE LIMITED VOCABULARY EDIT.
2. UPDATES 4978 DIAGNOSTICS TO SUPPORT 4978 ENHANCEMENTS. (EC 755078 RELEASED NEW 4978 ATTACH CARD. DIAGNOSTIC DISKETTE P/N 1635278 MUST BE AT EC LEVEL 755285 TO TEST NEW CARD. DISKETTE AT THIS EC 755285 WILL TEST BOTH THE OLD LEVEL AND THE NEW LEVEL ENHANCED CARD).
3. MINOR DIAGNOSTICS CORRECTIONS TO OTHER FEATURES.

CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635278 AT EC 755285 EQUALS THIS EC INSTALLED.

NOTE: B/M 0712315 WILL SHIP TO ALL 4955s. THE OTHER B/Ms WILL SHIP TO THOSE MACHINES HAVING THE AFFECTED FEATURES. ALL BILLS AFFECTING YOUR SYSTEM MUST BE INSTALLED CONCURRENTLY.

379/10-06-78

31

27	E	33		30	ALL	755078	712268	4412522		4978 ATTACHMENT RPQ D02038	ALL 4955s WITH D02038 AND WITHOUT 755078	1.0	.7
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MSIR CODE D

THIS ECA IS CANCELLED
REFER TO ECA 070
431/12-5-80

Parts Source and Anticipated Availability Date 10/78

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4978 ATTACHMENT CARD. NEW CARD ADDS SYS RESET TO 4978 ATTACHMENT. TO REMOVE CABLE ASSEMBLY P/N 8326879 IF REA 27-11659 INSTALLED.

CHECKPOINT: 4978 ATTACHMENT P/N 8326924 EQUALS 755078 INSTALLED.

CARD REPLACEMENT: OLD P/N NEW P/N
4413882 8326924

PRE REQ: EC 755285

PREREQ CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635278 AT EC 755285 EQUALS PREREQ INSTALLED.

379/10-06-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
32													
27	E	33		19	ALL	755136	0712291	1634793		4979 ATTACHMENT	ALL 4955s WITH 4979 FEATURE B/M 1634793 W/O EC 755136	1.0	.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 9/78							
DETAIL:													
PURPOSE: INSTALL NEW 4979 ATTACH CARD. CORRECTS END OF LINE DETECTION.													
CHECKPOINT: 4979 ATTACHMENT CARD 8326918 EQUALS 755136 INSTALLED.													
PREREQUISITE: EC 754882													
PREREQUISITE CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635001 AT EC 754882 OR HIGHER EQUALS PREREQ INSTALLED.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4413921	8326918						379/10-06-78
33													
27	E	33		9 16	ALL	755124	0712259	1637583		BSCA SINGLE LINE DC2074	ALL 4955s	1.0	0.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED THIS ECA IS CANCELLED P/N 8327258 REFER TO ECA 047													
DESCRIPTION: 431/12-5-80													
<ul style="list-style-type: none"> - TIMING CORRECTED TO ALLOW IPL ON 4953 PROCESSORS - BUSY IS NOW RESET AFTER IPL TO PREVENT "BUSY AFTER RESET" BEING RETURNED TO ALL COMMANDS AFTER IPL. - CORRECTED CONDITION OF A SINGLE "DC1" CHARACTER SETTING IPL MODE. - CORRECTED CONDITION OF "SELECT MODE" BEING RESET AFTER MULTI-POINT IPL. - THE HOST NOW HAS 13 SECONDS TO COMPLETE AN IPL SEQUENCE OVER SWITCHED LINES BEFORE DTR IS DROPPED. - IPL OVER A SWITCHED LINE MAY NOW BE BLOCKED BY ISSUING AN OIO WITH A BYTE COUNT LESS THAN 3 WITHIN 50 MS OF RING INTERRUPT. - RING INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF "RING" AND NOT ON THE FALL OF "RING". 													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4411740	8327258						379/10-06-78
34													
27	E	33		9	All	755128	0712258	1637584		BSCA High Speed DC 2075	All 4955's	1.0	0.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
Purpose: To install improved THIS ECA IS CANCELLED REFER TO ECA 048 127259.													
Description: 431/12-5-80													
<ul style="list-style-type: none"> - Timing corrected to allow IPL on 4953 processors. - Busy is now reset after IPL to prevent "Busy After Reset" being returned to all commands after IPL. - Corrected condition of a single "DC1" character setting IPL mode. - Corrected condition of "Select Mode" being reset after multi-point IPL. 													
Card Replacement: <u>Old P/N</u> <u>New P/N</u>													
						4411742	8327259						379/10-06-78
						8326899							
35													
27	E	33		9		578701	8326723	1637599		CHANNEL REPOWER	4955s W/O EC 578701	0.7	0.5
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 8/78							
DETAIL:													
INSTALLS IMPROVED CHANNEL REPOWER CARD P/N 4411841.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4410759	4411841						379/10-06-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

36													
27	E	33		019		375013	6837341	1637552		ELEC MECH FINAL ASM MOD A	ALL 4955s W/O EC 375013 OR W/O REA27-12013	1.0	0.5
								1637555		ELEC MECH FINAL ASM MOD B			
								4411369		ELEC MECH FINAL ASM MOD C			
								4411370		ELEC MECH FINAL ASM MOD D			
								8326804		ELEC MECH FINAL ASM MOD E			

MSIR CODE D

Parts Source and Anticipated Availability Date 9/78

DETAIL:

PURPOSE: TO INSTALL IMPROVED ROS CARD P/N 6837339 WHICH INCORPORATES MICROCODE CHANGES FOR STORE MULTIPLE, ENABLE, DISABLE, RESET BITS DBL INSTRUCTION AND CLASS INTERRUPT SUBROUTINE.

DESCRIPTION: THIS B/M REPLACES THE 4955 ROS CARD P/Ns

P/N 4411760 P/N 8326894 P/N 8327489 P/N 6826458 P/N 6827280

NOTE: THIS B/M INCORPORATES & SUPERCEDES:

FB/M 2706289, EC 754920
 FB/M 0712279, EC 755358
 FB/M 0712312, EC 755586

379/10-06-78

37												
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27		33				578550	712270	1637555		ELEC MECH FINAL ASM	4955 MOD B WITHOUT EC 578550	1.0	1.0
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MSIR CODE D

Parts Source and Anticipated Availability Date 9/78

DETAIL:

PURPOSE: TO INSTALL THREE WIRES ON A 4955 MODEL B PROCESSOR BOARD WHICH ENABLES CORRECT OPERATION OF STORAGE ABOVE 80K.

CHECKPOINT: CHECK FOR CONTINUITY BETWEEN N4B06 & N4D04, CONTINUITY EQUALS THIS CHANGE INSTALLED.

379/10-06-78

38												
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27	E	33			ALL	755458	6837833	4411549		4987 ATTACHMENT	4955's WITH 4987 ATTACHMENT FEATURE	.2	
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MSIR CODE D

Parts Source and Anticipated Availability Date 12/78

DETAIL:

PURPOSE: THIS ENGINEERING CHANGE INSTALLS AN IMPROVED MAINTENANCE PACKAGE FOR THE 4987 ATTACHMENT FEATURE.

PREREQUISITE: THE SERIES/1 BASIC DIAGNOSTICS MUST BE AT EC 755331 OR HIGHER.

CHECKPOINT: THE BASIC DIAGNOSTIC DISKETTE MUST BE AT EC 755331 OR HIGHER.

NOTE: THIS B/M 6837833 MUST BE INSTALLED CONCURRENTLY WITH B/M 6837832 ON THE 4987 (ECA 001). 385/01-05-79

39												
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MSIR CODE _____

Parts Source and Anticipated Availability Date

DETAIL:

NOTE: THIS ECA PUBLISHED FOR SEQUENCE PURPOSES ONLY - NO EC ASSIGNED TO THIS NUMBER.

390/03-23-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

PAGE	12	PUBLICATION	390/03-23-79
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CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
40													
27	E	33		19		755138	712293	4412988		4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	ALL 4955 WITH B/M 4412988 WITHOUT E/C 755138	1.0	.7
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326920 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> </u> OLD P/N <u> </u> NEW P/N													
4413923 8326920													
4411524													
390/03-23-79													
41													
27	E	33		19		755140	712295	4412989		4979 DISPLAY STATION ATTACH DEVICE CODE 2964 OR 2971 FRENCH OR BELGIUM	ALL 4955 WITH B/M 4412989 WITHOUT E/C 755140	1.0	.7
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326922 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> </u> OLD P/N <u> </u> NEW P/N													
4413924 8326922													
390/03-23-79													
42													
27	E	33		19		755141	712296	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE 2955, 2968 OR 2970 FRENCH, ITALIAN, JAPANESE	ALL 4955 WITH B/M 4412990 WITHOUT E/C 755141	1.0	.7
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326923 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u> </u> OLD P/N <u> </u> NEW P/N													
4413925 8326923													
390/03-23-79													
43													
27	E	33		19		755137	712292	4411375		4979 DISPLAY STATION ATTACH DEVICE CODE 2958 ENGLISH (UK)	ALL 4955 WITH B/M 4411375 WITHOUT E/C 755137	1.0	.7
MSIR CODE <u> </u> D						Parts Source and Anticipated Availability Date							

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

43 continued

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.
 PRE REQ: E/C 754882
 CHECKPOINT: 4979 ATTACHMENT P/N 8326919 EQUALS E/C INSTALLED.
 CARD REPLACEMENT: OLD P/N NEW P/N
 4413922 8326919 390/03-23-79

44

27	E	33		19		755139	712294	4412991		4979 DISPLAY STATION ATTACH DEVICE CODE 2967 SWEDEN	ALL 4955 WITH B/M 4412991 WITHOUT E/C 755139	1.0	.7
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.
 PRE REQ: E/C 754882
 CHECKPOINT: 4979 ATTACHMENT P/N 8326921 EQUALS E/C INSTALLED.
 CARD REPLACEMENT: OLD P/N NEW P/N
 4413900 8326921 390/03-23-79

45

27	E	33		028	ALL	755404	6838417	1637753	OR	SHIP GROUP MOD A00	ALL 4955'S WITHOUT EC 755404	0.5	0.3
							1637983	OR	SHIP GROUP MOD B00				
							4411367	OR	SHIP GROUP MOD C00				
							4411368	OR	SHIP GROUP MOD D00				
							8326805	OR	SHIP GROUP MOD E00				
							6838415	OR	SHIP GROUP MOD B00				
							4411368	OR	SHIP GROUP MOD D00				
							8326805	OR	SHIP GROUP MOD E00				
							6838416	OR	SHIP GROUP MOD A00				
							1637753	OR	SHIP GROUP MOD B00				
							1637483	OR	SHIP GROUP MOD C00				
							4411367	OR	SHIP GROUP MOD D00				
							4411368	OR	SHIP GROUP MOD D00				
							6838412		DISK ATTACHMENT		0.2	0.0	
							6838195		TIMER		0.2	0.0	
							6838196		START/STOP 1 LN ADAPT		0.2	0.0	
							1637586		ASYNC COMM 8 LN CTRL		0.2	0.0	
							6838197		BSCA 1 LN ADAPT MD SP		0.2	0.0	
							1637583		BSCA 1 LN ADAPT HI SP		0.2	0.0	
							1637584		BSCA 8 LN CONTROLLER		0.2	0.0	
							1637588		4978 ATTACHMENT		0.2	0.0	
							6838199	4412522					
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date 3/79		

DETAIL:

CONCURRENT: THESE B/M'S WILL BE SHIPPED ONLY IF FEATURES ARE INSTALLED.
 PURPOSE: TO INSTALL IMPROVED DIAGNOSTIC MAINTENANCE PACKAGE TO SUPPORT 4955 MOD E00 AND TWO CHANNEL SWITCH.
 PREREQUISITE: ECA 028 - EC 755331
 CHECKPOINT: DIAGNOSTIC DISKETTE (P/N 1635001) AT EC 755404 EQUALS EC 755404.

390/03-23-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
46													
27	A	33		NONE		374989	6837317	1637552		ELEC/MECH FINAL ASM MOD A00	ALL 4955'S WITHOUT REA27-20125 OR EC 374989	.5	.5
								1637555		ELEC/MECH FINAL ASM MOD B00			
								4411369		ELEC/MECH FINAL ASM MOD C00			
								4411370		ELEC/MECH FINAL ASM MOD D00			
MSIR CODE <u>C</u>											Parts Source and Anticipated Availability Date 2/79		
DETAIL:													
PURPOSE: ADD RUBBER PADS TO INSIDE OF COVERS ON AFFECTED 4955'S, ELIMINATING A POTENTIAL SHORT TO POWER SUPPLY CABLES.													
CHECKPOINT: MACHINE HISTORY FOR REA27-20125 OR EC 374989 INSTALLED.											390/03-23-79		
47													
27	E	33		9	ALL	755500	0712324	1637583		BSCA 1-LINE DC 2074	ALL 4955'S WITH B/M 1637583 W/O EC 755500	1.0	0.7
MSIR CODE <u>D</u>													
Parts Source and Anticipated Availability Date 3/79													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED BASC (9600 BAUD) FEATURE CARD, P/N 6826143.													
DESCRIPTION: - THE ATTACHMENT, WHEN JUMPERED MULTI POINT TRIBUTARY, WILL NOW FOLLOW THE RECEIVE LINE SIGNAL AT ALL TIMES. - SELECT AND CONTROL MODE WILL REMAIN ACTIVE FOLLOWING AN IPL, WHEN ATTACHMENT IS A MULTI POINT TRIBUTARY.													
CARD REPLACEMENT DATA: OLD P/N NEW P/N													
											4411740	6826143	
											8327258		
											390/03-23-79		
48													
27	E	33		9	ALL	755501	0712325	1637584		BSCA H.S. DC 2075	ALL 4955'S WITH B/M 1637584 WITHOUT EC 755501	1.0	0.7
MSIR CODE <u>D</u>													
Parts Source and Anticipated Availability Date 3/79													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED BSCA H.S. (56K BAUD) FEATURE CARD P/N 6826145.													
DESCRIPTION: - THE ATTACHMENT WILL NOW FOLLOW THE RECEIVE LINE, WHEN JUMPERED MULTI POINT TRIBUTARY. - SELECT AND CONTROL MODE WILL REMAIN ACTIVE FOLLOWING AN IPL WHEN ATTACHMENT IS A MULTI POINT TRIBUTARY.													
CARD REPLACEMENT DATA: OLD P/N NEW P/N													
											8327259	6826145	
											390/03-23-79		
49													
27	E	33		09	ALL	755502	0712310	1637586		ACCA 8 LINE CONTROLLER	4955'S WITH B/M 1637586 WITHOUT EC 755502	1.0	0.7
MSIR CODE <u>D</u>													
Parts Source and Anticipated Availability Date 3/79													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

49 continued

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 8 LINE CONTROLLER FEATURE CARD.

1. IMPROVES PATCH AREAS IN EACH ROS.
2. GET A MODEM INTERFACE RROR INSTEAD OF TIME OUT ON AN XMIT WITH TIMER 2 = 0.
3. RESET RECEIVE MODE ON ANY ILR CONDITION.
4. ENABLE WITH TIME OUT OR ENABLE WITH ANSWER TONE AND TIME OUT WILL PRESENT MODEM INTERFACE, ERROR, INSTEAD OF TIME OUT IF WE HAVE NO DSR.
5. CORRECTS LOST CONTROLLER AND INTERRUPT CONDITION.
6. CORRECTS CONTROLLER BUSY "FOREVER" CONDITION.
7. CORRECTS INTERRUPTING WITH WRONG DEVICE ADDRESS.
8. CORRECTS WRONG RESIDUAL ADDRESS ON TIME OUT.
9. CYCLE STEALS LAST RECEIVED CHARACTER INTO STORAGE ON TIME OUT CONDITION.
10. ADDED TEST POINTS FOR MANUFACTURING.

CHECKPOINT: ACCA CARD, P/N 6826147, EQUALS THIS EC INSTALLED.

CARD REPLACEMENT: OLD P/N NEW P/N
 4410726 6826147
 4411886

390/03-23-79

50

27	E	31		9	ALL	755503	0712311	1637588		BSCA 8-LINE CONTROL	ALL 4955'S WITH B/M 1637588 WITHOUT E/C 755503	1.0	0.7
MSIR CODE <u> </u> D											Parts Source and Anticipated Availability Date		3/79

DETAIL:

PURPOSE: TO INSTALL IMPROVED 8-LINE CONTROLLER FEATURE CARD P/N 6826149

- DESCRIPTION: -ATTENTION INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF RING INDICATOR.
 -CORRECTS POSSIBLE LOST CONTROLLER END PROBLEM.
 -INTERRUPT PENDING IS CLEARED WHEN A 1/2 J/O COMMAND IS ISSUED.
 -PREVENTS LOSS OF THE LAST BYTE OF AN INVALID LENGTH RECORD, IF AT AN EVEN ADDRESS.

CARD REPLACEMENT DATA: OLD P/N NEW P/N
 8327156 6826149

390/03-23-79

51

27	E	33		45		374888	6838897	1637753 1637893 4411367 4411368		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 DISK ATTACH 4962 DISPLAY ATTACH 4979 PRINTER ATTACH 4974 DISPLAY ATTACH 4978 TTY ATTACH PRINTER ATTACH 4973	ALL 4955 W/O EC 374988	1.0	.5
SEE CONCURRENT: 6838898 6838899 1634791 6838900 1634793 6838901 1637572 6838902 4412522 6838903 4412940 4412987											Parts Source and Anticipated Availability Date		

DETAIL:

CONCURRENT: THE FOLLOWING B/M'S WILL BE SHIPPED AS PER FEATURE INSTALLED & MUST BE INSTALLED WITH B/M 6838897.

PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS.

PREREQUISITE: EC 755404 (CHECKPOINT DISKETTE P/N 1635001).

390/03-23-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
52														
27	E	33		045	ALL	375135	6838414	1637753 1637983 4411367 4411368 8326805 1637582 1637588 8327201 1637585 1637583 1637584 1637586		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00 START STOP 1 LN ADAPT BSCA 8 LN CONTROLLER BSC COD DISABLE REC SDLC SINGLE LN CNTRL BSCA 1 LN ADAP BSCA 1 LN ADAP HI SPD ASYN COMM 8 LN CNTRL	ALL 4955'S WITHOUT EC 375135	0.5	0.3	
				NOTE: SEE CONCURRENT			6838822 6838823 6838824 6838825 6838826 6838827		OR			0.2 0.2 0.2 0.2 0.2 0.2	0.0 0.0 0.0 0.0 0.0 0.0	
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date						
CONCURRENT: THE FOLLOWING FB/M'S ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/M'S INSTALLED ON THE 4955. ALSO SEE NOTE 1.														
DETAIL:														
PURPOSE: TO PROVIDE UPDATED DISKETTE TO SUPPORT COMMUNICATIONS FEATURE.														
PREREQUISITE: ECA 045 - EC 755404 (CHECKPOINT: BASIC DISKETTE PN 1635001, ALSO CHECK MACHINE HISTORY).														
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635002) AT 375135 EQUALS THIS B/M.														
NOTE 1: YOU WILL RECEIVE MULTIPLE B/M'S WITH EC 375135 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAKDOWN OF THESE B/M'S. 390/03-23-79														
53														
27	E	33		045	ALL	755393	0712335	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4955 WITH B/M 4411549 AND WITHOUT EC 755393	1.0	.6	
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 2/79						
DETAIL: INSTALL AN IMPROVED CHANNEL ATTACHMENT CARD.														
PURPOSE: CORRECTS A TIMING PROBLEM THAT ALLOWED AN INCORRECT CONDITION CODE TO BE RETURNED BY THE 4987 (RETURNED CC=1 SHOULD HAVE BEEN CC=16).														
DESCRIPTION: <u>NEW CARD</u> <u>OLD CARDS</u>														
			6826514	6826156	6826209	4413980	8326869	6826157					390/03-23-79	
54														
27	E	33		053	ALL	375099	6839162	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4955'S WITH B/M 4411549 & WITHOUT EC 375099	.6	.6	
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 2/79						
DETAIL: INSTALLS AN IMPROVED CONTROLLER CARD.														
PURPOSE: INCORPORATES SEVERAL MICRO CODE CORRECTIONS.														
DESCRIPTION: <u>NEW CARD</u> <u>OLD CARDS</u>														
			6838163	4411055	8327260	4413860	8327456	4414640	8333815	8326868	6826159			390/03-23-79

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
55													
27	E	33		045	ALL	375032	6839115	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4955'S WITH B/M 4411549 & WITHOUT EC 375032	.2	0
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 4/79							
<p>DETAIL: THIS EC PROVIDES A NEW DIAGNOSTIC PACKAGE FOR THE 4987 CONTROLLER FEATURE.</p> <p>PURPOSE: TO MAKE THE DIAGNOSTIC TIMINGS PROCESSOR INDEPENDENT AND CORRECT SEVERAL ERRORS IN THE DIAGNOSTIC PACKAGE.</p> <p>CHECKPOINT: THE 4987 DIAGNOSTIC DISKETTE MUST BE AT EC 375032 OR 375032 MUST BE INSTALLED CONCURRENTLY ON THE 4987.</p>													
390/03-23-79													
56													
27	E	33		NONE	ALL	374831	6838413	1637753 1637983 4411367 4411368 8326805		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00	ALL 4955 WITH-OUT EC 374831	0.5	0.0
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 3/79							
<p>DETAIL:</p> <p>PURPOSE: TO PROVIDE INDEX TABS FOR MAPS VOLUME 002.</p> <p>CHECKPOINT: PRESENCE OF INDEX TABS IN VOLUME 002 EQUALS EC 374831. ALSO CHECK MACHINE HISTORY.</p>													
390/03-23-79													
57													
27	E	33		none		754960	8327162	1637552 1637555		Elec/Mech Final Mod A Elec/Mech Final Mod B	4955's Mod A & B WTC Only	2.0	2.0
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
<p>DETAIL: Replaces two fuse holders in the 300 watt power supply. This field bill to be shipped to World Trade only.</p>													
401/08-31-79													
58													
27	E	33		45	ALL	375052	6839318	1634795		4982 ATTACH	ALL 4955'S	0.5	0.2
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
<p>COMPANION OR CONCURRENT: 6839319 6839320 6839321 6839322 6839323. THESE BILLS ARE ON MACHINE TYPE 4982 (FCA 12)</p> <p>DETAIL:</p> <p>PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS.</p> <p>DESCRIPTION: PROVIDE UPDATED DISKETTE TO SUPPORT SENSOR I/O FEATURES BEING UPDATED ON CONCURRENT FBMs.</p> <p>DISKETTE REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u></p> <p> 1635279 1635279</p> <p> (EC 754882) (EC 375052)</p> <p>PREREQS: EC 755404, CHECKPOINT DISKETTE P/N 1635001 AT EC 755404.</p>													
401/08-31-79													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
59														
27	E	33		045 051 052 055 058	ALL	755551	6839234	1637753 1637983 4411361 4411368 8326805		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00	ALL 4955'S WITHOUT EC 755551	0.5 0.5 0.5 0.5 0.5	0.2 0.2 0.2 0.2 0.2	
				NOTE: SEE CONCURRENT:			6839239	6839229 6839231 6839232 6839238 6839237	1637561 1637582 1637585 6826403 4413769	TIMER START/STOP 1 LN ADAPT SDLC SINGLE LN CNTRL S/S SINGLE STOP BIT TWO CHANNEL SWITCH		0.2 0.2 0.2 0.2 0.2	0.0 0.0 0.0 0.0 0.0	
						MSIR CODE	D							Parts Source and Anticipated Availability Date
DETAIL:														
CONCURRENT: THESE B/Ms WILL BE SHIPPED ONLY IF FEATURES ARE INSTALLED.														
PURPOSE: 1. TO INSTALL IMPROVED DIAGNOSTICS. 2. UPDATE DISKETTE AND DIAGNOSTICS TO SUPPORT IPL FROM 4966. 3. TO CORRECT CONFIGURATION PROGRAM ERRORS RELEASED ON EC 755404.														
PREREQUISITE: ECA 045 - EC 755404 (CHECKPOINT - DISKETTE P/N 1635001) ECA 051 - EC 374888 (CHECKPOINT - DISKETTE P/N 1635278) ECA 052 - EC 375135 (CHECKPOINT - DISKETTE P/N 1635002) ECA 055 - EC 375032 (CHECKPOINT - DISKETTE P/N 4414981) EC 375102 (CHECKPOINT - DISKETTE P/N 6826999) - ALL MACHINES AT THIS LEVEL OR HIGHER) ECA 058 - EC 375052 (CHECKPOINT - DISKETTE P/N 1635279)														
												401/08-31-79		
60														
27	E	33		59	ALL	375245	6839113	6826403		ACCA 1 STOP BIT RPQ D02236	ALL 4955'S WITHOUT EC 375245	1.0	0.7	
						MSIR CODE	D							Parts Source and Anticipated Availability Date
DETAIL:														
PURPOSE: TO INSTALL IMPROVED ACCA, RPQ D02236, CARD P/N 6839111.														
DESCRIPTION: CORRECTS RESET OF RECEIVING MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.														
CARD REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u> 6837365 6839111														
PREREQUISITES: EC 755551, CHECKPOINT DISKETTE P/N 1635001 AT EC 755551.														
												401/08-31-79		
61														
27	E	33		09	ALL	375244	6839112	1637582		ACCA 1 LN. ADAPTER DC 1610	ALL 4955'S WITHOUT EC 375244	1.0	0.	
						MSIR CODE	D							Parts Source and Anticipated Availability Date
DETAIL:														
PURPOSE: TO INSTALL IMPROVED ACCA 1 LN FEATURE, CARD P/N 6839110.														
DESCRIPTION: CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.														
CARD REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u> 4411744 6839110 6826141														
PREREQUISITE: EC 578625 CHECK MACHINE HISTORY.														

continued 401/08-31-79

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

62													
27	A	33		059	ALL	375147	6840504	1637753		SHIP GROUP MOD A00	ALL 4955'S	1.0	1.0
							6840506	1637983		SHIP BROUP MOD B00	WITHOUT	1.0	1.0
							6840801	4411367		SHIP GROUP MOD C00	EC 375147	1.0	1.0
							6840802	4411368		SHIP GROUP MOD D00		1.0	1.0
							6840510	8326805		SHIP GROUP MOD E00		1.0	1.0
				SEE CONCURRENT:			6840500	1634791		DISK ATTACH		0.2	0.0
							6840501	1637561		TIMER		0.2	0.0
							6840502	1637582		START/STOP 1 LN ADAPT		0.2	0.0
							6840503	1637586		ASYNC COMM 8 LN CTRL		0.2	0.0
							6840507	4413769		TWO CHANNEL SWITCH		0.2	0.0
							6840508	6826403		S/S SINGLE STOP BIT		0.2	0.0
							6840509	8327706		GPIB ADAPTER		0.2	0.0

MSIR CODE C

Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED ON YOUR SYSTEM.

DETAIL:

PURPOSE: PROVIDE 4952 SUPPORT FOR ALL EXISTING S/1 FEATURES. UPDATE BASIC S/1 CONTROL PROGRAM AND CONFIGURATION PROGRAMS JANUARY, 1979 ANNOUNCEMENTS. CORRECT TIMING PROBLEMS IN TWO CHANNEL SWITCH DIAGNOSTICS. CORRECTS DIAGNOSTIC PROBLEMS WITH TIMER TEST FOR 4952.

PREREQUISITE: EC 755551 ECA 059

CHECKPOINT: DIAGNOSTIC DISKETTE PN 1635001 AT EC 755551 EQUALS PREREQ INSTALLED.

401/08-31-79

63												
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27	E	33		NONE	ALL	375221	6838858	1637585		SDLC ATTACHMENT DC 2090	ALL4955'S	0.2	0.0
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO PROVIDE AN UPDATED LOGIC PAGE SC 610.

401/08-31-79

64												
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27		33		NONE	MOD E00	375170	6838982	8326804		ELEC. MECH FINAL ASM MOD E00	4955 MOD. E00 WITHOUT REA 27-12095 OR EC 375170	1.0	1.0
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO ADD SAFETY LABEL.

CHECKPOINT: EC IS STAMPED ON THE POWER SUPPLY EC LABEL.

401/08-31-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

65

27	E	33		30		755536	6838524	4412987		4973 LINE PRINTER ATT	ALL 4955'S WITHOUT 755536	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

- THIS ECA IS RELEASED FOR WTC ONLY. ALL U.S. BUILT MACHINES WITH 4973 ATTACHMENT WILL BE FIELD UPDATED BY EC 375420. SEE ECA 002 FOR 4952, ECA 66 FOR 4953, ECA 68 FOR 4955 AND ECA 61 FOR 4959.
- DO NOT ORDER THIS ECA (EC 755536) FOR U.S. BUILT MACHINES.

415/04-04-80

66

27	E	33		59	ALL	375428	6839725	1637753 1637983 4411367 4411368 8326805		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00	ALL 4955'S WITHOUT EC 375428	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED SYSTEM TEST.

PREREQUISITE: ECA 59 - EC 755551

DESCRIPTION: SUPPORT 4952/63/66 FEATURE PROGRAMMABLE MULTI-LINE COMMUNICATION ATTACHMENT. ALSO PROVIDES IMPROVED FUNCTION OF EXISTING TEST MODULES.

CHECKPOINT: DIAGNOSTIC DISKETTE PN 1635003 AT EC 375428 EQUALS THIS EC INSTALLED.

NOTE: THIS IS A COMPOSITE FBM INSTALLING BOTH EC 375428 AND EC 755448.

415/04-04-80

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
67													
27	A	33		062	ALL	375401	6841442	1637753 1637983 4411367 4411368		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00 BSCA 1 LN ADAP MD SPD FLOATING POINT BSCA 1 LN ADAP HI SPD BSCA 8 LN CONTROLLER BSC COD DISABLE RECG	ALL 4955 W/O EC 375401	1.0	1.0
					SEE CONCURRENT:		6841441 6841444 6841445 6841446 6841446 6841446	8326805 1637583 1637563 1637584 1637588 8327201				0.3 0.3 0.3 0.3 0.3	0.0 0.0 0.0 0.0 0.0
MSIR CODE <u>C</u> Parts Source and Anticipated Availability Date													
CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/Ms INSTALLED IN 4955 PROCESSORS.													
DETAIL:													
PURPOSE: TO UPDATE DIAGNOSTIC DISKETTE (PN 1635001) AND SUPPORTING DOCUMENTATION.													
PREREQUISITE: ECA - 062 EC 375147													
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635001) AT EC 375147 OR HIGHER EQUALS PREREQUISITE INSTALLED.													
												415/04-04-80	
68													
22	E	33		51		375420	6840781	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 OR 755536 OR REA 27-12260	1.0	0.7
							6840885	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 AND WITH EC 755536 OR WITH REA 27-12260		
MSIR CODE <u>D</u>													
DETAIL:													
B/M 6840781													
INSTALLS IMPROVED 4973 ATTACHMENT CARD P/N 6840387													
1. PREVENTS UNDETECTED SYNC CHECKS.													
2. PREVENTS CONTINUOUS BELT RUN CONDITION RESULTING FROM CERTAIN SYNC CHECKS.													
3. PREVENTS UNDETECTED FORMS CHECKS.													
CARD REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u>													
6825312 6840387													
4411775													
B/M 6840885													
ADDS A LABEL TO CARD P/N 6825312 TO CHANGE P/N TO 6840387. CARD P/N 6825312 IS FUNCTIONALLY EQUIVALENT TO CARD P/N 6840387.													
												415/04-04-80	
69													
27	A	33		NONE		375457	6838624			PRIMARY POWER CORD WIRING CHANGE	ALL 4953's, 4955's, AND 4959's PRIOR TO EC 374956	2.0	2.0
MSIR CODE <u>C</u> Parts Source and Anticipated Availability Date													
DETAIL:													
TO INSURE LINE AND NEUTRAL AS WELL AS COLOR CODING CONTINUITY IS MAINTAINED TO PREVENT INADVERTENT FUSING OF THE NEUTRAL LINE.													
NOTE: THIS ECA RELEASED FOR WORLD TRADE AFFECTS U.K. ONLY.													
												415/04-04-80	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
70													
27	A	33		30		375158	6840608	4412522		4978 ATTACHMENT	ALL CARD FILES WITH E/M 4412522 AND WITHOUT EC 375158	1.0	0.7
MSIR CODE <u>C</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
TO INSTALL IMPROVED 4978 FEATURE CARD P/N 6838710. THIS CORRECTS A 4978 TO SERIES/1 DATA TRANSMISSION PROBLEM THAT OCCURS WHEN THE LAST POSITION ON A LINE IS PROTECTED AND YOU ARE TRANSMITTING THE LAST PART OF THE LINE TO THE SERIES/1. THE LAST BYTE BEFORE THE PROTECTED POSITION DOES NOT GET SENT IF IT IS BEING SENT TO AN EVEN ADDRESS IN THE SERIES/1.													
CARD REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u>													
						6836924	6838710						415/04-04-80
						4413882							
71													
27	E	33		052	ALL	375094	6840925	1637753 1637983 4411367 4411368 8326805		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00	ALL 4955'S WITHOUT EC 375094	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
CONCURRENT: FB/M 6840926 IF SDLC (FTR B/M 1637585) IS INSTALLED.													
DETAIL:													
PURPOSE: UPDATE DISKETTE (PN 1635002) FOR MULTI-LINE COMMUNICATIONS CONTROLLER.													
PREREQUISITE: ECA 052 EC 375135													
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635002) AT EC 375094 EQUALS THIS EC INSTALLED.													
												415/04-04-80	
72													
27	E	33		None	All	375321	6844986	6826371		Ship GRP. 5250 Attachment	All with E/M 6826371 W/O EC 375321	0.5	0.5
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL: This EC corrects Map errors and supplies a new initializer diskette.													
												427/10-03-80	
73													
27	E	33		62		375609	6842641	4412759		4963 ATTACHMENT	ALL 4955'S WITHOUT EC 375609	1.0	0.5
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
EC 375609 PROVIDES A NEW 4963 DIAGNOSTIC DISKETTE P/N 6826999 AND ACCOMPANYING DOCUMENTATION TO IMPROVE DIAGNOSTICS AND UTILITIES.													
NOTE: THIS EC INSTALLS BOTH ECs 375376 & 375609.													
												427 10-03-80	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
74													
27	A	33		067	All	375384	6842521	1637753		Ship Group Mod A00	All 4955's	1.0	1.0
							6842521	1637983		Ship Group Mod B00	Without	1.0	1.0
							6842521	4411367		Ship Group Mod C00	EC 375384	1.0	1.0
							6842521	4411368		Ship Group Mod D00		1.0	1.0
							6842523	8326805		Ship Group Mod E00		1.0	1.0
					See Concurrent		6843668	1637561		Timer		0.5	0.0
							6843669	1637583		BSC 1 Line Adapter (med. speed)		0.5	0.0
							6843669	1637584		BSC 1 Line Adapter (high speed)		0.5	0.0
							6843669	1637588		BSC 8 Line Controller		0.5	0.0
							6843671	1637582		Start/Stop 1 Line Adapter		0.5	0.0
							6843672	1637585		SDLC Single LN		0.5	0.0
							6844240	6827113		4966 Attach		1.0	1.0
							6843670	1637846		4982		0.5	0.0
							6843667	1637563		4955 FPS		0.5	0.0
							6843674	4413769		TCS		0.5	0.0
MSIR CODE _____											Parts Source and Anticipated Availability Date		
COMPANION OR CONCURRENT: The following FB/Ms are to be installed if features are on your machine.													
DETAIL: Updates Maps and Basic Diskette P/N 1635001.													
											427/10-03-80		

75													
27	A	33		071	ALL	375465	6843681	1637753		SHIP GROUP MOD A00	ALL 4955'S	1.0	1.0
							6843681	1637983		SHIP GROUP MOD B00	WITHOUT	1.0	1.0
							6843681	4411367		SHIP GROUP MOD C00	EC475465	1.0	1.0
							6843681	4411368		SHIP GROUP MOD D00		1.0	1.0
					SEE CONCURRENT		6843681	8326805		SHIP GROUP MOD E00		1.0	1.0
							6843676	1637582		ASYNCHR START/STOP		0.2	0.0
							6843677	1637583		BSCA 1 LINE ADAPT		0.2	0.0
							6843677	1637584		BSCA 1 LINE ADAPT HI-SPD		0.2	0.0
							6843678	1637585		SDLC SINGLE LINE CONTROL		0.2	0.0
							6843679	1637586		ASYN COMM 8 LINE CONTROL		0.2	0.0
							6843680	1637588		BSCA 8 LINE CONTROL		0.2	0.0
							6843680	8327201		RPQ D02198		0.2	0.0
							6844067	1637904		DIGITAL I/O		0.2	0.0
							6844078	6837366		PROG 8 LINE COMM		0.2	0.0
							6843675	1637565		OEM DPC INTERFACE		0.2	0.0
MSIR CODE <u>C</u>											Parts Source and Anticipated Availability Date		
DETAIL: CONCURRENT: THE FOLLOWING FB/M'S ARE TO BE INSTALLED CONCURRENTLY FOR THE FEATURE B/M'S INSTALLED ON YOUR SYSTEM.													
PURPOSE: UPDATE DIAGNOSTICS FOR COMMUNICATION FEATURES. UPDATE FEATURE PROGRAMMABLE MULTI-LINE DIAGNOSTICS TO FCS LEVEL.													
PREREQUISITE: EC375094 FCA071													
CHECKPOINT: DISKETTE P/N 1635002													
											431 12 5 80		

76													
27	A	33		67	All	375475							
MSIR CODE _____											Parts Source and Anticipated Availability Date		
DETAIL: This ECA is for sequence purposes only. This EC 375475 is installed by EC 375384 reference. 4955 ECA 074													
											431 12 5 80		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
77														
27	E	33		None	All	375482	6844256 6844256 6844256 6844256 6844256	1637753 1637983 4411367 4411368 8326805		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 Ship Group Mod E00	All 4955's without EC375482	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0	
						MSIR CODE <u> D </u>							Parts Source and Anticipated Availability Date	
<p>DETAIL: Purpose: Update system test. Include 4969 support, include latest limited vocabulary edit, convert program listings to microfiche. This B/M is a total replacement for Vol. 4.</p>														
431 12 5 80														
78														
27	E	33		None	All	375322	6826590	6826371		Ship GRP 5250 Attachment	All Machines Without EC 375322	0.5	0.5	
						MSIR CODE <u> D </u>							Parts Source and Anticipated Availability Date	
<p>DETAIL: This EC corrects diskette errors and adds Spanish Menos to the diskette.</p>														
431 12 5 80														
79														
27	E	33		none		375603	6844554	6825474 6825469 8327706		S/1 to S/1 Att. 1 S/1 to S/1 Att. 2 GPIB Adapter	All 4955's with FB/M 6825474 or FB/M 6825469 or FB/M 8327706 w/o EC375603	1.0	.7	
						MSIR CODE <u> </u>							Parts Source and Anticipated Availability Date	
<p>DETAIL: Purpose: To install improved general purpose interface adapter feature card.</p>														
432/12-19-80														
80														
27	A	33		009		375666	6843309	1637586		ASYNC COMM 8 LN CTRL	ALL WITH B/M 1637586 W/O EC 375666	1.0	0.7	
						MSIR CODE <u> </u>							Parts Source and Anticipated Availability Date	
<p>DETAIL:</p> <p>INSTALLS NEW ACCA 8 LINE CONTROL FEATURE CARD. CORRECTS THE FOLLOWING CONDITIONS:</p> <ol style="list-style-type: none"> 1) TIMEOUT ON RECEIPT OF EOB BEFORE CHECKING LRC. 2) RESETTING OF STATUS WORDS AFTER TIMEOUT. 3) EXTRA CYCLE STEAL CYCLES ON CHAINED TRANSMIT OPERATIONS. 4) LOSS OF CONTROLLER END INTERRUPT. <p style="text-align: center;">NEW P/N: 6841989 OLD P/N: 6840560</p>														
432 12-19-80														
81														
27	A	33		None	All	375542	6841907	4412940		TTY Adapter	All 4955 w/TTY attach w/o EC375542	1.0	0.7	
						MSIR CODE <u> C </u>							Parts Source and Anticipated Availability Date	
<p>DETAIL: To install improved TTY Card, P/N 6841065</p> <p>Description: Decrease possibility of data shift for devices using single stop bit.</p> <p>Card Replacement Data: <u>Old P/N</u> <u>New P/N</u> 4414864 6841065</p>														
432 12-19-80														

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time												
								Feature B/M #	Seq #	Description of Feature		Man	Sys											
82																								
27	E	33		009		375654	6849173	1637582		START/STOP 1 LN ADAPT	ALL WITH B/M 1637582 W/O EC 375654 OR REA 27-12319	1.0	0.7											
MSIR CODE _____																								
Parts Source and Anticipated Availability Date																								
DETAIL: INSTALLS IMPROVED ACCA 1 LINE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.																								
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">NEW P/N</td> <td style="text-align: center;">OLD P/N</td> </tr> <tr> <td style="text-align: center;">7841911</td> <td style="text-align: center;">6840559</td> </tr> </table>													NEW P/N	OLD P/N	7841911	6840559								
NEW P/N	OLD P/N																							
7841911	6840559																							
432/12-19-80																								
83																								
27	E	33		NONE		375655	6841974	6826403		S/S SINGLE STOP BIT	ALL WITH B/M 6826403 W/O EC 375655 OR REA 27-12320	1.0	0.7											
MSIR CODE _____																								
Parts Source and Anticipated Availability Date																								
DETAIL:																								
INSTALLS IMPROVED ACCA 1 LINE RPQ D02236 FEATURE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.																								
NEW P/N: 6841912 OLD P/N: 6840565																								
432/12-19-80																								
84																								
27	E	33		053 085		375357	6843317	4411549		PCM CONTROLLER	All 4955's With B/M 4411549 W/O EC 375357	1.0	.6											
MSIR CODE <u> D </u>																								
Parts Source and Anticipated Availability Date																								
DETAIL: Installs an improved controller card.																								
Purpose: Incorporates several micro code corrections and support for new orders.																								
Description: <table style="display: inline-table; border: none; vertical-align: top;"> <tr> <td style="text-align: center;">New Card</td> <td style="text-align: center;">Old Cards</td> </tr> <tr> <td style="text-align: center;">6839661</td> <td style="text-align: center;">4411055 8327456</td> </tr> <tr> <td></td> <td style="text-align: center;">4413860 8333815</td> </tr> <tr> <td></td> <td style="text-align: center;">4414640 6826159</td> </tr> <tr> <td></td> <td style="text-align: center;">8326868 6838163</td> </tr> <tr> <td></td> <td style="text-align: center;">8327260</td> </tr> </table>													New Card	Old Cards	6839661	4411055 8327456		4413860 8333815		4414640 6826159		8326868 6838163		8327260
New Card	Old Cards																							
6839661	4411055 8327456																							
	4413860 8333815																							
	4414640 6826159																							
	8326868 6838163																							
	8327260																							
432/12-19-80																								
85																								
27	A	33		055		375469	6844996	4411549		PCM CONTROLLER	4955 With Feature B/M 4411549 W/O EC 375469	0.5	0.5											
MSIR CODE _____																								
Parts Source and Anticipated Availability Date																								
CONCURRENT: 4987 B/M 6844995																								
DETAIL: UPDATE DOCUMENTATION TO SUPPORT DIAGNOSTIC CHANGES ON 4987 ECA 004.																								
432/12-19-80																								

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req # ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
86														
27	A	33		76		375427	6844597	8327308			System/370 Chan. Atth.	All with B/M 8327308 W/O EC 375427	0.5	0.5
MSIR CODE _____														
CONCURRENT: 6844596 applies only to 4955.														
Parts Source and Anticipated Availability Date														
DETAIL:														
Update maps and diagnostics for 370 attach. to increase effectiveness. Machines in the field should already have this EC installed and should not have to order this EC.														
432/12-19-80														
87														
27	A	33		067 086		876741	6845042	8327308			System/370 Chan ATTH	All with B/M 8327308 W/O EC 876741 and W/O REA 27-12433	1.2	1.0
MSIR CODE _____														
Parts Source and Anticipated Availability Date														
DETAIL: Installs improved Series/1 System/370 Attachment card. Corrects not dropping load light during host IPL.														
New P/N 6844238 Old P/N 6842481														
432/12-19-80														
88														
27	E	33		None		876907	6846720	6840490			Data entry loop-1st D02312	4955	1.0	.7
MSIR CODE _____														
Parts Source and Anticipated Availability Date 5-9-80														
DETAIL: To install improved DCI/1 controller card P/N 6844673 to correct timing conditions which may occur on card P/N 6842497.														
432/12-19-80														
89														
27	E	33		None	All	375200	6826768	8327254			5250 Display Attach	All 4952's 4953's, 4955's and 4959's with FTR B/M 8327254 and W/O 375200	1.0	1.0
MSIR CODE <u> D </u>														
Parts Source and Anticipated Availability Date														
DETAIL: Purpose: To update the 5250 attachment and driver/receiver cards to new levels.														
Description: Replace attachment card P/N 6827095 with new P/N 6838849.														
432/12-19-80														
90														
27	E	33		none		375201	N/A	8327254				All w/o EC 375201	.5	.5
MSIR CODE _____														
Parts Source and Anticipated Availability Date														
DETAIL: Update ROS. This EC is released for records purposes only and will be picked up on EC 375515.														
432/12-19-80														

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time				
								Feature B/M #	Seq #	Description of Feature		Man	Sys			
91																
27	E	33		062 066		375393	6840798	6827113		AUTOLOADER DISKETTE	ALL WITH B/M 6827113 W/O EC 375393 or REA 27-12236	1.0	0.7			
				MSIR CODE _____			Parts Source and Anticipated Availability Date									
<p>DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. THIS ECA IS OBSOLETE BY EC 375656.</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>NEW P/N</u></td> <td style="text-align: center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align: center;">6840515</td> <td style="text-align: center;">6839345 6839724 6840513</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6840515	6839345 6839724 6840513
<u>NEW P/N</u>	<u>OLD P/N</u>															
6840515	6839345 6839724 6840513															
												432/12-19-80				
92																
27	A	33		062		375352	6839768	4412759		4963 Attachment	All with B/M 4412759 W/O EC 375352	1.0	0.7			
				MSIR CODE _____			Parts Source and Anticipated Availability Date									
<p>COMPANION OR CONCURRENT: NONE</p> <p>DETAIL: INSTALLS NEW ATTACHMENT CARD. NO FUNCTIONAL IMPROVEMENTS ARE MADE WITH THIS EC. THIS IS FOR INFORMATION ONLY. OLD AND NEW PARTS ARE FUNCTIONALLY EQUIVALENT.</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>NEW P/N</u></td> <td style="text-align: center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align: center;">6839659</td> <td style="text-align: center;">6838056</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6839659	6838056
<u>NEW P/N</u>	<u>OLD P/N</u>															
6839659	6838056															
												432/12-19-80				
93																
27	E	33		062 072	All	375515	6842669	8327254		5250 Display Attach	All 4955's with B/M 8327254 w/o EC 375515 and w/EC 375201	1.0	1.0			
							6838611			5250 Display Attach	All 4955's w/feat B/M 8327254 and w/o EC375515 or EC375201 (See Note)					
				MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date									
<p>DETAIL: Purpose: To update early ship 5250 information display system attachment to FCS hardware.</p> <p>Description: The attachment card is replaced and a control storage loader diskette is installed with B/M 6842669. If B/M 6838611 is installed, the driver/receiver card is also replaced. Special tools required: A CE maintenance console will be required if the system does not have a programmer's console or an operating 5251.</p> <p>NOTE: Machines with REA's 27-12267 and 27-12110 equals EC 375201 installed.</p>																
												432/12-19-80				
94																
27	E	33		062		375333	6841114	4413790		SHIP GRP D02045	ALL 4955 W/ RPQ 2045, B/M 4413790 AND W/O EC 375333	1.0	1.0			
				MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date									
<p>DETAIL: PURPOSE: REPLACE DIAGNOSTIC DISKETTE P/N 4413541 FOR S/1 TO S/7 LOCAL ATTACHMENT. UPDATE MAINTENANCE DOCUMENTATION</p> <p>PREREQUISITES EC 375147 - INSTALL IMPROVED DIAGNOSTIC DISKETTE P/N 1635001</p>																
												432/12-19-80				

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time				
								Feature B/M #	Seq #	Description of Feature		Man	Sys			
95																
27	A	33		NONE		375481	6841797	1637591		COMMUNICATION POWER	ALL 4953 MODEL B OR D, 4959, 4955 MODEL A, B, C, D WITH FEATURE B/M1637591 W/O EC375481 OR REA27-12253	0.5	0.5			
MSIR CODE _____											Parts Source and Anticipated Availability Date					
COMPANION OR CONCURRENT: NONE																
DETAIL:																
IF P/S SEQUENCE CARD IS REPLACED FROM P/N4412948 TO P/N6839225 AND FEATURE 1637591 IS PRESENT (COMMUNICATION POWER) THIS EC MUST BE INSTALLED. THIS EC CORRECTS A TIMING PROBLEM BETWEEN P/S SEQUENCE CARD 6839225 AND COMM. POWER CARD 4412932.																
<table style="width:100%; border:none;"> <tr> <td style="text-align:center;"><u>NEW P/N</u></td> <td style="text-align:center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align:center;">6840803</td> <td style="text-align:center;">4412932</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6840803	4412932
<u>NEW P/N</u>	<u>OLD P/N</u>															
6840803	4412932															
NOTE: INSTRUCTIONS FOR THIS EC SAY APPLIES TO 4953 B OR D, AND 4959. THEY SHOULD ALSO INCLUDE 4955 A, B, C, or D.																
432/12-19-80																
96																
27	A	33		009		375664	6843308	1637588		BSCA 8 LN CONTROLLER	ALL WITH B/M 1637588 W/O EC 375664	1.0	0.7			
MSIR CODE _____											Parts Source and Anticipated Availability Date					
DETAIL:																
INSTALLS IMPROVED BSCA 8 LINE CONTROL FEATURE CARD. CORRECTS LOSS OF CONTROLLER END INTERRUPT.																
NEW P/N: 6841988 OLD P/N: 6840563																
432/12-19-80																
97																
27	E	33		100	ALL	375694	6844595	6826371		SHIP GRP. 5250	ALL 4952's 4953's, 4955's and 4959's WITH FEA B/M 6826371 and W/O E/C 375694	0.5	0.5			
MSIR CODE _____											Parts Source and Anticipated Availability Date					
DETAIL:																
PURPOSE: TO UPDATE THE 5250, INFORMATION DISPLAY, ATTACHMENT PACKAGE. DESCRIPTION: TO REVISE AND UPDATE THE DIAGNOSTIC MAPS.																
432/12-19-80																
98																
27	A	33		062		375397	6844559	6827113		AUTOLOADER DISKETTE	All With B/M 6827113 W/O EC 375397	0.5	0.5			
MSIR CODE _____											Parts Source and Anticipated Availability Date					
DETAIL:																
REPLACES DIAGNOSTIC DISKETTE 6838000 WITH NEW DISKETTE. UPDATES MAPS AND DIAGNOSTICS FOR 4966.																
432/12-19-80																

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
99													
27	A	33		062 066		375656	6842602	6827113		AUTO LOADER DISKETTE	ALL WITH B/M 6827113 W/O EC 375656 OR REA 27-12322	1.0	0.7
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
COMPANION OR CONCURRENT: NONE													
DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. CORRECTS DISKETTE FORMATTING INCOMPATABILITY BETWEEN 3741 AND 4966.													
						NEW P/N 6841959	OLD P/N 6839345 6839724 6840513 6840515						
												432/12-19-80	
100													
27	E	33		93	ALL	375823	6843335	6826371		Ship Grp.	All 4952's 4953's, 4955's and 4959's with PTR B/M 6826371 and W/O EC 375823	0.3	0.3
			MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date								
DETAIL: PURPOSE: TO UPDATE ALL UNSTALLED SYSTEMS TO THE LEVEL REQUIRED TO SUPPORT B/M 8327254, 5250 INFORMATION DISPLAY ATTACHED.													
DESCRIPTION: THIS B/M INSTALLS A CONTROLL LOADER DISKETTE AND UPDATES THE MACHINE HISTORY TO REFLECT EC 375823 AS BEING INSTALLED.													
												432/12-19-80	
101													
27	A	33		030	All	375809	6844617	4412522		4978 ATTACH IMPROVED FEAT. CARD	ALL 4952's 4953's, 4944's 4959's WITH B/M 4412522 and W/O EC 375809	1.0	0.7
			MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date								
DETAIL: PURPOSE AND DESCRIPTION: TO INSTALL AN IMPROVED 4978 FEATURE CARD P/N 6843002. THIS CORRECTS A 4978 TO SERIES/1 DATA TRANSMISSION PROBLEM THAT OCCURS WHEN THE LAST POSITION ON A LINE IS PROTECTED AND YOU ARE TRANSMITTING THE LAST PART OF THE LINE TO THE SERIES/1. THE LAST BYTE BEFORE THE PROTECTED POSITION DOES NOT GET SENT IF IT IS BEING SENT TO AN EVEN ADDRESS IN THE SERIES/1.													
												432/12-19-80	
102													
27	E	33				876814						0.0	0.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
DETAIL: This EC is for sequence purposes only.													
												432/12-19-80	
103													
27		33		None		876817				F.I.B. for RPQ D02198		0.0	0.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
DETAIL: This EC is for sequence pruposes only.													
												436 02-20-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
104													
27	E	33		62		876916	6845413	1634795		SIO ATTACHMENT	ALL W/O EC 876916	.7	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>CONCURRENT WITH FEATURE 1637574 FB/M 6845414</p> <p>1637575 6845415</p> <p>DETAIL: 1637576 6845416</p> <p>1637577 6845417</p> <p>1637578 6845418</p> <p>1637579 6845419</p> <p>1637580 6845420</p> <p>1637581 6845421</p> <p>UPDATE THE MAINTENANCE PACKAGE WITH LIMITED VOCABULARY AND CONVERT PROGRAM LISTINGS TO MICROFICHE.</p>													
												436.02-20-81	
105													
27	E	33		None	E	375511	6845141	8326804		Elec/Mech Final ASM (400W supply)	All 4955E's W/O EC 375511 or REA 27-12525	1.5	1.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL:</p> <p>Purpose: To remove reverse polarized cap. from low voltage card. Replacement of cap. on the card with a new part in a correct polarized position.</p> <p>Note: If polarized cap. correct, 1.0 Hrs If polarized cap. incorrect, 1.5 Hrs</p>													
												436.02-20-81	
106													
27	E	33				375474	6844655					0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>COMPANION OR CONDURENT: NONE</p> <p>DETAIL: THIS ECA IS RELEASED FOR SEQUENCE PURPOSES ONLY. THE 4969 ATTACHMENT CARD WILL BE RELEASED ON EC 877048.</p>													
												436.02-20-81	
107													
27	A	33		074		877041	6846604	1637753 1637983 4411367 4411368 8326805		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 Ship Group Mod E00	All 4955's W/O EC 877041	0.7 0.7 0.7 0.7 0.7	0.5 0.5 0.5 0.5 0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>CONCURRENT: The following FB/M's are to be installed if the features are installed on your machine.</p> <p>See Concurrent 6846605 1634793 4979 Display</p> <p>or 4411375</p> <p>or 4412988</p> <p>or 4412989</p> <p>or 4412990</p> <p>or 4412991</p> <p>or 8326904</p> <p>or 8326905</p> <p>or 8326906</p>													
<p>DETAIL: 1. 4966 (4AXX) and 1370 (D800) attachment diagnostics added to Basic diskette.</p> <p>2. Updates MAP's with "limited vocabulary" edit.</p> <p>3. Converts program listings to microfiche (microfiche not shipped with FB/M's see CEM's for microfiche procedures).</p>													
												continued	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time				
								Feature B/M #	Seq #	Description of Feature		Man	Sys			
107 continued																
							6846606	4412987		4973 Printer		0.2	0.0			
							6846607	4412522		4978 Display		0.2	0.0			
							6846608	1634791		4962 Disk		0.2	0.0			
							6846609	1637570		4964 Diskette		0.2	0.0			
							6846610	1637572		4974 Printer		0.2	0.0			
							6846611	4412940		TTY		0.2	0.0			
MSIR CODE _____ Parts Source and Anticipated Availability Date CONCURRENT: The following FB/M's are to be installed if the features are installed on your machine.																
DETAIL: 1. 4966 (4AXX) and 1370 (D800) attachment diagnostics added to Basic diskette. 2. Updates MAP's with "limited vocabulary" edit. 3. Converts program listings to microfiche (microfiche not shipped with FB/M's see CEM's for microfiche procedures).																
436.02.20.81																
108																
27	E	33		079		876876	6844555	6825474 6825469		S/1 Attach Master S/1 Attach Slave	ALL 4955 W/ F/BM 6825474 OR F/BM 6825469 AND W/O EC 876876	.5	.5			
MSIR CODE <u>D</u> _____ Parts Source and Anticipated Availability Date																
DETAIL: PURPOSE: PROVIDE IPL CAPABILITY FOR S/1 TO S/1 ATTACH FFATURE DESCRIPTION: ADD PATCH DISKETTE TO MACHINE WITH RPQ D02241 PREREQUISITES: EC 375603 CHECKPOINT: P/N 6841583 (GP1B)																
436-02-20-81																
109																
27	A	33		NONE		375700	6842495	6837366		8-LINE COMM CONTROL (FEATURE PROGRAMMABLE MULTILINE COMM. CONTROL)	ALL WITH B/M 6837366 W/O EC 375700	1.0	0.7			
MSIR CODE _____ Parts Source and Anticipated Availability Date																
DETAIL: CORRECTS THE FOLLOWING PROBLEMS: 1. CHAINING OF RECEIVE COMMANDS WHEN LINE SPEED IS 4800 BPS OR GREATER CAUSING LOST DATA OR INCORRECT DATA. 2. CHAINING FROM A DCB RESET TO ANY COMMAND CAUSES DCB SPEC. CHECK. 3. CORRECTS "BREAK" PROBLEM. ADDS INCREASED FUNCTION TO SUPPORT 3101 AND ALC PROTOCOLS.																
<table style="width: 100%; border: none;"> <tr> <td style="text-align: left;"><u>NEW P/N</u></td> <td style="text-align: left;"><u>OLD P/N</u></td> </tr> <tr> <td>6842494</td> <td>6840558</td> </tr> </table>													<u>NEW P/N</u>	<u>OLD P/N</u>	6842494	6840558
<u>NEW P/N</u>	<u>OLD P/N</u>															
6842494	6840558															
436 02-20-81																
110																
27	E	33				876920						0.0	0.0			
MSIR CODE _____ Parts Source and Anticipated Availability Date COMPANION OR CONCURRENT: NONE																
DETAIL: THIS ECA IS RELEASED FOR SEQUENCE PURPOSES ONLY. THE DIAGNOSTICS WILL BE RELEASED BY EC 864399.																
436 02 20 81																

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
111														
27	E	33		none		877170	6845467	8326804			Elec/Mech Final Assy	All 4955E's with FB/M 8326804 w/o EC877170 or REA27-12545	1.0	.7
MSIR CODE _____						Parts Source and Anticipated Availability Date								
DETAIL: Purpose: To provide additional power supply grounding to reduce electrical noise.												436 02-20-81		
112														
27	E	33		074		877036	6846261	4412759			4963 Attachment	All with B/M 4412759 w/o EC877036	1.0	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date								
DETAIL: This EC updates the 4963 diagnostics and releases program 7AF5 which is a 4963 Initializer.												436 02-20-81		
113														
27		33		074	All	876895	6846996	1637753			Ship Group Mod A00	All with B/M 6846996 and w/o EC 876895	0.5	0.5
							6846996	1637983			Ship Group Mod B00		0.5	0.5
							6846996	4411367			Ship Group Mod C00		0.5	0.5
							6846996	4411368			Ship Group Mod D00		0.5	0.5
							6846996	8326805			Ship Group Mod E00		0.5	0.5
							6846997	1637583	or		BSCA MED SPD or Multi-line		0.2	0.2
							6846998	1637584	or		France only, BSCA		0.2	0.2
							6846999	1637585	or		HI SPD or SDLC		0.2	0.2
							6847000	1637586	or		ACCA Multi-line		0.2	0.2
							6847000	1637588	or		BSCA Multi-line or RPQ D02198		0.2	0.2
							6847001	6826371			5250 Attachment		0.2	0.2
							6847002	6844227			Multi-line ASC II		0.2	0.2
MSIR CODE _____						Parts Source and Anticipated Availability Date								
DETAIL: CONCURRENT: The following FB/M's are to be installed if features are on your machine.														
PURPOSE: Pickup high speed SDLC, pick up REA's 27-12480 and 27-20723, correct single-line BSC half rate.														
DESCRIPTION: Correct multi-line controller for device address entry on manual MAPS.												436 02-20-81		
114														
27	A	33		009		876993	6846063	1637583			BSCA 1 Line Adap Med SPD	All 4955's with FB/M 1637583 w/o EC876993	1.0	.7
MSIR CODE _____ D _____						Parts Source and Anticipated Availability Date								
DETAIL: Purpose: 1. To support RPS when using delayed processing. 2. To support certain modems when using "Enable with Timing" command.														
Prerequisite: EC578625												436 02-20-81		

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
115													
27	A	33		none		375662	6846908	4412759		4963 Attachment	All with B/M 4412759 w/o EC375662	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Updates the MLD Maintenance Documentation for the 4963.											436.02-20-81		
116													
27	E	33		088		864534	6846751	6841121		DATA ENTRY LOOP DO 2312	ALL WITH B/M 6841121 W/O EC 864534	1.0	1.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: NONE													
DETAIL: UPDATE CONTROL STORE DISKETTE.											436 02 20-81		
117													
27	E	33		none		877048	4468388	6827023		4969 Attachment	All w/o EC375474 and w/o EC877048	1.0	.7
							6846482	6827023		4969 Attachment	All with EC375474 and w/o EC877048	1.0	.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: To release a new attachment card which eliminates the need for patch diskette P/N 6844675. Old Attachment card P/N 6844213, 6844615. New attachment card P/N 6845050.													
To change card P/N 6844616 to P/N 6845050 by replacing ROS modules 'A' and 'B', which eliminates the need for patch diskette P/N 6844675.											436 02 20-81		
118													
27	A	33	-	059	All	876784	4498706	1637753	-	Shp Grp Mod A	All 4955's w/o 876784	1.0	0.5
							4498707	1637983	-	Shp Grp Mod B		1.0	0.5
							4498708	4411367	-	Shp Grp Mod C		1.0	0.5
							4498709	4411368	-	Shp Grp Mod D		1.0	0.5
							4498710	8326805	-	Shp Grp Mod E		1.0	0.5
				SEE CONCURRENT			4498711	1634791		4962 Attach		0.5	0.5
							4498712	8327706		GPIB Adapt		0.5	0.5
							4498713	1637561		Timer		0.5	0.5
							4498714	1637582		ASC 1 Line		0.5	0.5
						or	4498714	1637586		ASC 8 Line		0.5	0.5
						or	4498714	6826403		ASC RPQ D02236		0.5	0.5
							4498715	1637583		BSC 1 Line (Med Spd)		0.5	0.5
						or	4498715	1637584		BSC 1 Line (Hi Spd)		0.5	0.5
						or	4498715	1637588		BSC 8 Line		0.5	0.5
						or	4498715	8327201		BSC RPQ D02198		0.5	0.5
							4498716	1637585		SDLC		0.5	0.5
							4498717	6827113		4966 Attach		0.5	0.5
							4498719	4413769		TCS		0.5	0.0
							4498720	1637846		4982 Basic		0.5	0.0
							4498713	1637563		FLTC. Point		0.5	0.0
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							Boca 09/80
DETAIL:													
The following FB/MS are to be installed if features are on your machine.													
This is a composite of EC's 375147, 375147, 375401, 375384 and 87684 which have been released to reduce the number of "as required" changes which were required as prerequisites to the field installation of additional features.													
											436 02-20-81		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
119													
27	E	33		None		375704	6844550	6841121		Data Entry Loop - Ship	All with FBM 6841121 w/o EC375704	1.0	1.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: Update diagnostic documentation, diskette P/N 6839513, control diskette P/N 6841625. Pick up REA 27-12390 and REA 27-12400 on diskette P/N 6839513. Pick up REA 27-12379 and REA 27-12446 on diskette P/N 6841625. Correct Misc. problems with MAPS 81DO and 81DC.</p>													
												436/02-20-81	
120													
27	E	33		107		864314		6844236 6839335		8 Line Ship Grp D02350 EIA Full Duplex Cable	All w/o EC 375201	.5	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: Correct MAPs 81F5 and 81F2 by calling out the proper repair action. Corrects a typo on MAP 81F6. This EC is for RPQ D02350.</p> <p>This EC is released for records purpose only and will be picked up on EC 869549.</p>													
												449/08-21-81	
121													
27	E	33			ALL	864529	6846612	1637753 1637983 4411367 4411368 8326805		SHIP GROUP MOD A SHIP GROUP MOD B SHIP GROUP MOD C SHIP GROUP MOD D SHIP GROUP MOD E	ALL 4955s W/O EC 864529	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0
MSIR CODE _____ D						Parts Source and Anticipated Availability Date Boca 09/80							
<p>DETAIL: THIS EC UPDATES SYSTEM TESTS, INCLUDES THE LATEST LIMITED VOCABULARY EDIT, CONVERTS THE PROGRAM LISTINGS TO MICROFICHE, INCLUDES 4969 SUPPORT, AND UPDATES OTHER MAINTENANCE DOCUMENTATION.</p>													
												449/08-21-81	
122													
27	E	33		None		864399	4468379	6827023		4969 ATTACHMENT	ALL W/O EC 864399	.5	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: TO UPDATE THE 4969 DIAGNOSTICS, MAPs AND MLDs TO IMPROVE THE MAINTENANCE PACKAGE.</p>													
												449/08-21-81	
123													
27	A	33		107		864770	6847006	1637572		Serial Print Attach	All with B/M 1637572 and without EC864770	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: CHECKPOINT: Previous level of MAP 6473 for EC 877041. PURPOSE: Update MPA 6473 to add support for new ribbon cartridge feature.</p>													
												449/08-21-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
124													
27	E	33		118 121		877049	4469140	6827113		AUTO LOADER DISKETTE	ALL WITH FB/M 6827113 AND W/O EC 877049	1.0	0.7
THIS EC IS FOR SEQUENCE PURPOSES ONLY AND WILL BE PICKED UP ON EC 864660.													
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: 4966 ATTACHMENT CARD UPDATE P/N 6846976											449/08-21-81		
125													
27	A	33		107		864724	6847003	1637753 1637983 4411367 4411368 8326805		Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 Ship Group Mod E00	ALL W/O EC 864724	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: FB/M 6847004 must be installed concurrent if feature 4412522 is installed on your machine.													
DETAIL: CHECKPOINT: Diskette 1635278, EC 877041.											449/08-21-81		
PURPOSE: To correct mim references on 4978 MAPS.													
126													
27	A	33		NONE		864728	6847005	1637753 1637983 4411367 4411368 8326805		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00	ALL W/O EC 864728	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: RELEASE ATTACHMENT STORAGE DISKETTE											449/08-21-81		
DESCRIPTION: PROVIDE A STORAGE SYSTEM DISKETTE AND USER'S GUIDE TO ALL SERIES/1 WYWFEMS WHEN REQUIRED BY DEVICES UTILIZING ATTACHMENT STORAGE.													
127													
27		33				869448					All 4955 and w/o 869448.		
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: This EC is for record purposes only and will be picked up on EC 869314.											449/08-21-81		
Diagnostic update to provide testing for odd byte count and to correct misc. diagnostic errors.													
128													
27	E	33		119		869417	4468626	6841121		Data entry loop ship grp.	All with B/M 6841121 and without EC 869417.	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To update maps, logics and add parts catalog to ship group for RPQ's D02312 and D02314.											449/08-21-81		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
129														
27	A	33		None		375172	6838624				Check and rewire power cord.	ALL W/O EC 375172	2.0	2.0
				MSIR CODE _____				Parts Source and Anticipated Availability Date						
<p>DETAIL: PURPOSE: To insure line and neutral, as well as, color coding continuity is maintained to prevent inadvertent fusing of the neutral line.</p> <p>World Trade only. 449/08-21-81</p>														
130														
27	E	33		113 117 126		869314	6847179	6827023			4969 Attachment	All 4955 w/o EC 869314 and with feature B/M 6827023.	0.5	0.5
				MSIR CODE _____				Parts Source and Anticipated Availability Date						
<p>DETAIL: Provides odd length write capability and diagnostic capability to support the odd length.</p> <p style="text-align: right;">449/08-21-81</p>														
131														
27	E	33		107 118		869519	6031228	8327308			Sys/370 Channel Atch	All with B/M 8327308 and w/o EC 869519	1.2	1.0
				MSIR CODE _____				Parts Source and Anticipated Availability Date						
<p>DETAIL: Checkpoint: Diskette P/N 1635278 EC 864724 Diskette P/N 1635001 EC 876784</p> <p>4953 Processor at EC 375597 (check EC history)</p> <p>Purpose: To install new S/1 - S/370 attachment card, P/N 4469031, to eliminate bus in parity errors after control unit busy.</p> <p style="text-align: right;">449/08-21-81</p>														
132														
27	A	33		4969 003 121		869416	8529127	1637753 1637983 4411367 4411368 8326805			Ship Group Mod A00 Ship Group Mod B00 Ship Group Mod C00 Ship Group Mod D00 Ship Group Mod E00	ALL W/O EC 869416	0.5	0.5
				MSIR CODE _____				Parts Source and Anticipated Availability Date						
<p>DETAIL: Prerequisites: EC 869312 Checkpoint: 4969 adapter card p/n 4468367. EC 864529 Checkpoint: Diskette p/n 1635003.</p> <p>Purpose: Update system test for 4969. Correct Erap module for RPS.</p> <p style="text-align: right;">449/08-21-81</p>														
133														
27	A	33		107		869549	6031244	6844236			8 Line Ship Group RPQ D02350	ALL W/O EC 869549	0.5	0.2
				MSIR CODE _____				Parts Source and Anticipated Availability Date						
<p>DETAIL: Prerequisites: EC 877041 checkpoint: diskette p/n 1635278.</p> <p>Purpose: Correct problems with Ras package. This FB/M is a composite of EC 869549 and 864314.</p> <p style="text-align: right;">449/08-21-81</p>														

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
134													
27	A	33		113		987700	6031142	1637753 1637983 4411367 4411368 8326805 6826371		SHIP GROUP MOD A00 SHIP GROUP MOD B00 SHIP GROUP MOD C00 SHIP GROUP MOD D00 SHIP GROUP MOD E00 5250 ATTACH	ALL W/O EC 987700	0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
CONCURRENT: FB/M 6031143 FEATURE - 5250 ATTACH FTR B/M 6826371													
DETAIL: PURPOSE: SUPPORT 5225 PRINTER BY UPDATING DISKETTE P/N 1635002 AND INSTALLING MAINTENANCE DOCUMENTATION.													
												449/08-21-81	
135													
27	E	33		134		869719	6846613	6826271		5250 ATTACH	ALL W/O EC 869719	0.5	0.5
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: PROVIDE CUSTOMER SUPPORT OF THE 5225 PRINTER TO CORRECT KATAKANA OPERATION. PROVIDE THE FUNCTION OF RETURNING THE CURSOR ADDRESS IN A PREVIOUSLY UNUSED FIELD OF SIE.													
												449/08-21-81	
136													
27	A	33		None		869536	6081866			All 4955 ship groups	All 4955's	1.0	1.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
DETAIL: Update system test to include support for local comm. controller, multifunction attach, 4965 and 4952 Mod C.													
												458/12-23-81	
137													
27	A	33				987681				Sequence purpose only. See EC 864647 ECA 142		0.0	0.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
DETAIL:													
												458/12-23-81	
138													
27	E	33		None		869618	6081727	6827023		4969 Mag Tape Attachment	All 4969 tape attach. feature B/M 6827023 and w/o EC 869618	0.5	0.5
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
DETAIL: UPDATE THE MAINTENANCE DOCUMENTATION AND LOGICS.													
												458/12-23-81	
139													
27	A	33				869592				Sequence purposes only. See EC 864647 ECA 142		0.0	0.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date							
DETAIL:													
												458/12-23-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4955

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
140													
27	E	33		None		987967	6081891	1637586		ASYNCH Comm. 8-line control	All with FB/M 1637586 and EC 375666 and without EC 987967	0.2	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: Provide field information bulletin (FIB) providing temporary corrections for known problems in the ASYNCH 8-line control feature.												458/12-23-81	
141													
27	A	33		None		864591	6023546	6837367		Prog. 4-line comm.	All with FB/M 6837367 and without EC 864591	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To improve current loop receiver electrical isolation. This update has no effect on receivers used in EIA configuration. (Card P/N 6846874)												458/12-23-81	
142													
27	A	33		None		864647	4498924	8327706		GPIB adaptor	All w/o EC 864647	0.5	0.5
							4498925	6825474		S/I attachment MA		0.5	0.5
							6195737	6827023		S/I attachment SL		0.5	0.5
							6195738	6841121		4969 attachment		0.5	0.5
							6195739			Data Entry loop		0.5	0.5
										All ship groups for 4955		0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: B/M 4498924 replaces GPIB adaptor card (P/N 6841583) with new card (P/N 6030909). Fixes problems with read/write commands. B/M 4498925 add patch diskette to machines with RPQ D02241 or RPQ D02242 and replace attachment card P/N 6841583. B/M 6195737 provide IPL capability for 4969 patch diskette from 4952C or 4965. B/M 6195738 provide IPL capability for data entry loop patch diskette. B/M 6195739 provide IPL capability for master patch diskette from 4952C and 4965.												458/12-23-81	
143													
27	A	33		118		987726	8258017	1637552		Elect/mech MOD A	All 4955's without EC 987726	1.0	1.0
								1637555		Elect/mech MOD B		1.0	1.0
								4411369		Elect/mech MOD C		1.0	1.0
								4411370		Elect/mech MOD D		1.0	1.0
								8326804		Elect/mech MOD E		1.0	1.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To install 4955 processor address card P/N 6031154. This change corrects an intermittent I/O check with sequence indicator set in the PSW.												458/12-23-81	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time														
								Feature B/M #	Seq #	Description of Feature		Man	Sys													
144																										
27	A	33		118 121		864660	6195777	6827113		Autoloader diskette	All w/o EC 864660 with feature B/M 6827113	1.0	0.7													
				MSIR CODE _____				Parts Source and Anticipated Availability Date																		
<p>DETAIL: Installs new 4966 attachment card. Corrects machine checks caused by a timing problem in the attachment. This EC picks up EC 375656 and Ec 8776980.</p> <table border="0"> <tr> <td>Old P/N</td> <td>New P/N</td> </tr> <tr> <td>6839345</td> <td>6846980</td> </tr> <tr> <td>6839724</td> <td></td> </tr> <tr> <td>6840513</td> <td></td> </tr> <tr> <td>6840515</td> <td></td> </tr> <tr> <td>6841959</td> <td></td> </tr> <tr> <td>6846976</td> <td></td> </tr> </table>													Old P/N	New P/N	6839345	6846980	6839724		6840513		6840515		6841959		6846976	
Old P/N	New P/N																									
6839345	6846980																									
6839724																										
6840513																										
6840515																										
6841959																										
6846976																										
												458/12-23-81														
145																										
27	E	33		None		987965	6081865	6837366		Prog. 8-line comm.	All with FB/M 6837366 and without EC 987965	0.2	0.0													
				MSIR CODE _____				Parts Source and Anticipated Availability Date																		
<p>DETAIL: Purpose: Paper change only. Field information bulletin (FIB), logic pages.</p>																										
												458/12-23-81														
146																										
27	A	33		121		869713	6060728	6837366		Prog. 8 line comm.	All with FB/M 6837366 and without EC 869713	1.0	0.7													
				MSIR CODE _____				Parts Source and Anticipated Availability Date																		
<p>DETAIL: Purpose: To install card P/N 4498902. This EC corrects a receive mode problem, DCB reject of interrupt condition, and loss of controller end.</p>																										
												458/12-23-81														

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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ECA 147 EC 988060 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto shipped from _____ Boca Raton _____

AVAILABLE _____ 5/15/82 _____

PURPOSE: To install improved asynchronous direct connect RS 422-A 8-line adapter (RPQ D02350) card.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844228	RS 422 8-line adapter	6023599	1.0	.7	6023599	121	864529	Sys test diskette P/N 1635003

COMPANION: None

CONCURRENT: None

DETAIL: Corrects problems which existed in reading individual data lines with communications console and diagnostic commands.

Prev P/N	New P/N
6844733	6042111
6846493	

ECA 148 EC 323266 6-16-82

Mandatory _____ SERVICE CODE 33 _____

Auto shipped from _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update diagnostic documentation and diskette for DCI, RPQ D02312/2313/2314.

PREREQUISITES: EC 869417

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	RPQ D02312/2313/2314	6060748	1.0	0.5	6060748	128	869417	Map 81D0 at EC 869417

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation and replace diskette P/N 6839513 for DCI, RPQ D02312/2313/2314.

ECA 149 EC 994399 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Update system test diskette.

PREREQUISITES: EC 869536

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic diagnostic ship group	6023613	1.0	1.0	6023613	136	869536	

COMPANION: None

CONCURRENT: None

- DETAIL:
1. Add alternate console control to acca single line and multiline.
 2. Add test module for X.21 interface.
 3. Update system test exercisors to correct misc. errors for: MFA, 4952C/4965 diskette, 4963.
 4. Update FRIEND modules to correct errors in: 4966 and 4962 routines.
 5. Update ERAP to accept new features and recognize ACCA console support.

ECA 150 EC 994400 6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: To update CPU maintenance package to EC994400

PREREQUISITES: EC876784

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	6069670	0.5	0.5	6069670	118	876784	Diskette P/N 1635001, EC876784, or EC869422, or EC987899.

COMPANION: None

CONCURRENT: None

- DETAIL:
- Improved CPU diagnostics, add support for X.21, correct problems for 4955F SVT and correct problems in FOE5 for MFA.

ECA 153 EC 988042

6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

PURPOSE: Replace diskette P/N 1635002 and update maintenance documentation.

PREREQUISITES: EC987700

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	5250 Attach	6060935	.5	.5	6060935-6061023	134	987700	Diskette P/N 1635002 at EC987700.
All	6826371	5250 Attach	6060936	.5	.0				
All	1637582	ACCA S/L (F/C 1610)	6061016	.5	.0				
All	1637583	BSCA S/L (F/C 2074)	6061017	.5	.0				
All	1637584	BSCA S/L (F/C 2075)							
All	1637585	SDLC S/L (F/C 2090)	6061018	.5	.0				
All	1637586	ACCA M/L (F/C 2091)	6061019	.5	.0				
All	1637588	BSCA M/L (F/C 2093)	6061020	.5	.0				
All	6844227	PMLC M/L (F/C 2095)	6061021	.5	.0				
All	4468900	Custom Adapter (D02318)	6061022	.5	.0				
All	6846706	BSCA Direct (D02349)	6061023	.5	.0				

COMPANION: None

CONCURRENT:

DETAIL:

1. Update 5250 diagnostics.
2. Update 5250 maintenance package to include 5224 printer.
3. Update F/C 1610/2074/2075/2090/2091/2093/2095 RPQ D02318/D02349 to eliminate processor dependency.

ECA 154 EC 869711

6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

4/25/82

PURPOSE: To install improved asynchronous communication 8-line control feature card.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	1637586	Asynchronous 8-line communication control	6060993	1.0	0.7	6060993	121	864529	Sys test diskette P/N 1635003

DETAIL:

Corrects controller end and lost device reset problem.

Previous P/N	New P/N
6841989	4498900
6840560	
6826147	
4411886	

ECA 157 EC 987768

6-16-82

As required

SERVICE CODE 33

Order from

Boca Raton

AVAILABLE

4/30/82

PURPOSE: To correct channel hang on host processor.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	B/M8327208	System 370/channel attach.	6069241	1.0	1.0	6069241	125 118	864724 876784 375597	Diskette P/N 1635278 Diskette P/N 1635001 EC history

COMPANION: None

CONCURRENT: None

DETAIL: Series/1 370/channel attach involved in short control unit busy sequence will hang host processor channel. This failure will occur when multiple control units are installed on a channel.

Previous P/N	New P/N
6842481	6069404
6844238	

ECA 158 EC 323285

6-16-82

Mandatory

SERVICE CODE 33

Auto shipped from

Boca Raton

AVAILABLE

PURPOSE: Update Feature 1310 (MFA) maintenance package and diskettes.

PREREQUISITES: EC988013 (factory only)

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844066	Feature 1310, MFA	6061145	1.0	.8	6061145	160	466795	Diskette P/N 1635001

COMPANION: None

CONCURRENT: None

DETAIL: 1. This EC provides new MFA initial diskette and MFA diag. diskette P/N 6031185 and P/N 6031186.
2. This EC provides new MFA MAPs.

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ECA 159 EC 323259 6-16-82
 As required SERVICE CODE 33
 Order from Boca Raton

AVAILABLE _____

PURPOSE: Update RPQ D02312, DCI, Loop Driver Card.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	DCI, RPQ D02312/ D02313/D02314	6060850	1.0	1.0				

COMPANION: None

CONCURRENT: None

DETAIL: This EC replaces Loop Driver Card P/N 6844610 with new P/N 6060849. This card fixes problems:
 1. On loops which have a large amount of interactivity in process and also have loop resync's occurring, the possibility exists for the loop terminals being dropped into an off line mode.
 2. The yellow light on the loop terminals can continue to show a transaction in progress if the operator terminates the transaction while a message is still present in the output buffer.

ECA 160 EC 466795 6-16-82
 As required SERVICE CODE 33
 Order from Boca Raton

AVAILABLE 3/15/82

PURPOSE: To update CPU maintenance package

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	4772216	1.0	0.5	If Applicable	150	994400	Diskette P/N 1635001 at 994400
					149		994399	Diskette P/N 1635003 at 994399	
					864724		Diskette P/N 1635278 at 864724		
					877036		Diskette P/N 6826999 at 877036		
					869592		Diskette P/N 6847217 at 869592		
					869448	Diskette P/N 6838871 at 869448			

COMPANION:

CONCURRENT:

DETAIL: Improve diagnostic package for timers, integrated DI/DO, 4962, 4963, 4964, 4966, 4969, 4973, 4974, 4978, 4979, LCC, SDLC, BSC and TTY. Adds console support for MFA/7485.

ECA 161 EC 466957 6-16-82
Mandatory SERVICE CODE 33
Auto shipped from Boca Raton

AVAILABLE

PURPOSE: Update the D02288 maintenance package.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6069145	Basic ship group	4772030	0.5	0.3		None		

COMPANION: None

CONCURRENT: None

DETAIL: Revise test units and MAPS to provide support for multiple types of terminals.

ECA 162 EC 326794 6-16-82
As required SERVICE CODE 33
Order from Boca Raton

AVAILABLE

PURPOSE: Provide universal terminal support on the 5250 attachment, feature 1210.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	Feature 1210, 5250 attachment	4745831	.5	.5	4745831	153	988042	Diskette P/N 163002

COMPANION: None

CONCURRENT: None

DETAIL: This EC provides a new 5250 init. diskette, P/N 6826590 to include support for the 5291 terminal.

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		NONE	A	578533	1636865	1637597		ELEC/MECH FINAL ASM MOD A	ALL 4959 MDLS. A W/O REA 27-11080 AND W/O EC578533	2.0	2.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date 9/16/77							
DETAIL:													
SAFETY													
PURPOSE: TO ISOLATE POWER SUPPLY PRIMARY TRANSFORMERS FROM FAN FAILURES AND VICE VERSA.													
CHECKPOINT: CHECK TO SEE IF THE ABOVE EC OR REA NUMBERS ARE STAMPED ON THE POWER SUPPLY EC LABEL. ALSO CHECK FOR ABSENCE OF A METAL JUMPER BETWEEN TB1-7 AND TB1-8. 356/10-21-77													
2													
27	E	33		SEE NOTE	A	578573	1636857	1634791		B/M DISK ATTACH D/C 3580	ALL 4959 MDL A W/O EC 578573	0.5	0.5
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
CONCURRENT B/M 5572859 002													
DETAIL:													
PURPOSE: TO REMOVE THE ... MATCH THE 496 ...													
PREREQUISITE: EC 57848 ...													
CARD REPLACEMENT DATA: <u> REA </u> <u> OLD P/N </u> <u> NEW P/N </u>													
27-10782 4411070 4410722 4410723													
1635772													
358/11-19-77													
3													
27	E	33			ALL	387078	1636851	1637584		B/M BSCA 1 LN ADAP HI-SP DEVICE CODE 2075	ALL 4959 WITH B/M 1637584 W/O EC387078	1.0	0.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
THIS ECA IS CANCELLED REFER TO ECA <u> 017 </u>													
431/12-5-80													
PURPOSE: TO INSTALL IMPROVED BSCA FEATURE CARD P/N 4411742.													
CHECKPOINT: BSCA CARD P/N 4411742 EQUALS EC 387078 INSTALLED (ALSO CHECK MACHINE HISTORY).													
CARD REPLACEMENT DATA: <u> REA </u> <u> OLD P/N </u> <u> NEW P/N </u>													
4411834 4411742													
4413328													
4413234													
358/11-19-77													
4													
27	E	33		NONE	A	576733	1636852	1637585		B/M SDLC SINGLE LN CNTRL DEVICE CODE 2090	ALL 4959 MDL A WITH B/M 1637585 W/O EC 576733	1.0	0.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

4 continued

DETAIL:

PURPOSE: TO INSTALL IMPROVED SDLC CARD P/N 4411022
 CHECKPOINT: SDLC CARD P/N 4411022 EQUALS EC576733 INSTALLED. (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 27-10892 1635595 4411022
 1634060
 1634007

358/11-19-77

5

27	E	33		NONE	ALL	578591	1636850	1637588		B/M BSCA 8 LINE CONTROL- LER DEVICE CODE 2093	ALL 4959 WITH B/M 1637588 W/O EC578591	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 045

DETAIL:

PURPOSE: TO INSTALL IMPROVED BSCA 8 LINE FEATURE CARD P/N 4411852
 CHECKPOINT: BSCA 8 LINE FEATURE CARD P/N 4411852 EQUALS EC 578591 INSTALLED. (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 4411884 4411852
 4413396
 4413351

358/11-19-77

6

27	E	33		NONE	ALL	578590	1636849	1637586		B/M ACCA 8 LINE CONTROL D/C 2091	ALL 4959 WITH B/M 1637586 WITHOUT EC 578590	1.0	0.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 044
431/12-5-80

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 8 LINE FEATURE CARD P/N 4411886.
 CHECKPOINT: ACCA 8 LINE FEATURE CARD P/N 4411886 EQUALS EC 578590 INSTALLED (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT DATA: REA OLD P/N NEW P/N
 27-11088 4410726 4411886
 4413352
 1634006

358/11-19-77

7

27	E	33		002 003 004 005 006	ALL	578625	1636905			ALL 4959	ALL 4959 W/O EC 578625	1.5	1.5
							1636926 1636927 1636928 1636929 1636930 1636933 1636934 1636935	1637572 4412987 1634791 1637563 1637904 1637582 1637586 1637583	OR	B/M SERIAL PTR 4974 B/M LINE PTR 4973 B/M DISK ATTACH 4962 B/M FLOATING POINT B/M DI/DO NON ISO ATT. B/M ACCA 1 LN ADAPT. B/M ACCA 8 LN CNTRL B/M BSCA 1 LN MED-SPD B/M BSCA 1 LN HI-SPD B/M BSCA 8 LN CNTRL B/M SDLC 1 LN CNTRL B/M OEM DPC INTERFACE			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: 4982 ECA 002, 4953 ECA 007 OR 4955 ECA 009 (EC 578625)

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

7 continued

DETAIL:

PURPOSE: TO UPDATE THE SERIES/1 MAINTENANCE PACKAGE TO EC 578625. THIS IS A COMPOSITE B/M AND UPDATES MAINTENANCE DOCUMENTATION FOR 4959, 4978, 4964, TTY ATTACH, TIMER 4997 POWER DISTRIBUTION, 300 WATT POWER SUPPLIES AND SYSTEM TEST/FRIEND TEST DOCUMENTATION.

- PREREQUISITES:
- ECA 002 - EC 578573 VERIFY 4962 ATTACH CARD P/N 4410723
 - ECA 003 - EC 387078 VERIFY BSCA 1 LN CARD P/N 4411742
 - ECA 004 - EC 576733 VERIFY SDLC 1 LN CARD P/N 4411022
 - ECA 005 - EC 578591 VERIFY BSCA 8 LN CARD P/N 4411852
 - ECA 006 - EC 578590 VERIFY ACCA 8 LN CARD P/N 4411886

NOTE TO CE: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 578625, CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR SYSTEM. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAK DOWN OF THESE B/Ms. B/M 1636905 CONTAINS INSTALLATION INSTRUCTIONS FOR ALL B/Ms ON EC 578625.

360/12-23-77

27	E	33		007	ALL	754954	1636895	1634793		B/M 4979 DISPLAY STATION ATTACH D/C 2956	ALL 4955 WITH B/M 1634793 WITHOUT EC 754954 WITHOUT REA 27-11545	1.0	0.7
							2706290	1634793		B/M 4979 DISPLAY STATION ATTACH D/C 2956	ALL 4955 WITH B/M 1634793 WITHOUT EC 754954 WITH REA 27-11545	1.0	0.7

THIS ECA IS CANCELLED
REFER TO ECA 030
431/12-5-80

MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD P/N 4413921

PREREQUISITE: EC 578625, ECA 008

CARD REPLACEMENT DATA:

REA	OLD P/N	NEW P/N
27-11545	4411535	4413921
	4413256	4411535
	1635707	4413256

364/01-13-78

27	E	33		007 008	ALL	578757					ALL 4959	1.0 (NOTE 1)	0.7
							1636941	4412987		B/M 4923 LINE PRINTER ATTACH D/C 5630			
							1636942	1637572		B/M 4974 SERIAL PRINTER ATTACH D/C 5620			
							1636943	1637585		B/M SDLC SINGLE LINE CONTROLLER D/C 2090			
							1636944	1637563		B/M FLOATING POINT D/C 3920			
							1636945	1634791		B/M 4962 DISK ATTACH D/C 3580			

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: EC 754862, ECA 010

DETAIL:

PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTIONS FOR THIS EC ARE INCLUDED ON THE CONCURRENT FBM (EC 754862, ECA 010).

PREREQUISITE: EC 578625, ECA 007 AND EC 754954, ECA 008

NOTE 1: THIS TIME REFLECTS TIME REQUESTED TO INSTALL BOTH ECA 009 AND ECA 010.

361/01-13-78

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
10													
27	E	33		007 008	ALL	754862	1636948 1636946	4412522		FBM INSTALLATION INSTRUCTIONS B/M 4978 DISPLAY ATTACH D/C D02038	ALL 4959	1.0 0.7 (NOTE 1)	
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
CONCURRENT: EC 578757, ECA 009													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED LOGICS AND DIAGNOSTICS. THE INSTALLATION INSTRUCTIONS FOR CONCURRENT EC 578757 ARE INCLUDED ON THIS EC.													
PREREQUISITE: EC 578625, ECA 007 AND EC 754954, ECA 008													
NOTE 1: THIS TIME REFLECTS TIME REQUIRED TO INSTALL BOTH ECA 009 AND ECA 010. 361/01-13-78													
11													
27	E	33		NONE	ALL	578914	1636903	1637584		B/M BSCA 1 LINE FEATURE D/C 2075	ALL 4959 WITH B/M 1637584 WITHOUT EC 578914	1.0 0.7	
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
THIS ECA IS CANCELLED REFER TO ECA 043 431/12-5-80													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED BSCA 1 LINE FEATURE CARD P/N 4411742.													
CHECKPOINT: BSCA 1 LINE FEATURE CARD P/N 4411742 EQUALS EC 578914 INSTALLED (ALSO CHECK MACHINE HISTORY)													
CARD REPLACEMENT DATA: <u> REA </u> <u> OLD P/N </u> <u> NEW P/N </u>													
4411834 4411742 4413328 4413234													
361/01-13-78													
12													
27	E	33		007	ALL	578915	1636901	1637582		B/M ACCA 1 LINE FEATURE D/C 1610	ALL 4959 WITH B/M 1637582 WITHOUT EC 578915	1.0 0.7	
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
THIS ECA IS CANCELLED REFER TO ECA 055 431/12-5-80													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED ACCA 1 LINE FEATURE CARD P/N 4411744													
PREREQUISITE: ECA 007 - EC 578625													
CARD REPLACEMENT DATA: <u> REA </u> <u> OLD P/N </u> <u> NEW P/N </u>													
4413330 4411744 4413236 4413167													
361/01-13-78													
13													
27	E	33		010	ALL	754933	1636908	4412522		B/M 4978 DISPLAY ATTACH D/C D02038	ALL 4959 WITH B/M 4412522 WITHOUT EC 754933 WITHOUT REA 27-11632	1.0 0.7	
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
THIS ECA IS CANCELLED REFER TO ECA 063 431/12-5-80													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4978 FEATURE CARD P/N 4413882													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

13 continued

PREREQUISITE: EC 754862, ECA 010

CHECKPOINT: 4978 FEATURE CARD P/N 4413882 OR REA 27-11632 EQUALS EC 754933 INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA:	<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
	27-11632	4411932	4413882
		4411729	4411932
	27-11250	4411032	4411729

361/01-13-78

14

27	E	33		007	ALL	578913	1636902	1637583		B/M BSCA 1 LINE ADAPT. (MED. SP.) D/C 2074	ALL 4959 WITH B/M 1637583 W/O EC 578913	1.0	0.7
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MSIR CODE D

THIS ECA IS CANCELLED REFER TO ECA 042

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED BSCA 1 LINE (MED. SP.) FEATURE CARD P/N 4411740.

PREREQUISITE: EC 578625, ECA 007

CHECKPOINT: BSCA 1 LINE FEATURE CARD P/N 4411740 EQUALS EC 578913 INSTALLED (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT DATA:	<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
	27-10724	4413329	4411740
		4413235	4413329

361/01-13-78

15

27	E	33		NONE	ALL	754946	1636912	4411092		B/M SHIP GROUP RPQ D02014	ALL 4953 WITH B/M 4411071 & W/O EC 754946	0.5	0.5
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO ADD EXERCISER TEST PROGRAM 8013 TO DIAGNOSTIC PACKAGE FOR FEATURE B/M 4411071 (AUTO-CALL).

CHECKPOINT: RPQ DISKETTE (PN 4414122) AT EC 578761 EQUALS AUTO-CALL FEATURE INSTALLED (ALSO CHECK MACHINE HISTORY).

366/03-24-78

16

27	E	33		NONE	ALL	578886	2706296	1634791		B/M DISK ATTACHMENT D/C 3580	ALL 4959 WITH B/M 1634791 & W/O EC 578886	1.3	1.0
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4962 DISK ATTACHMENT CARD - D/C 3580.

CHECKPOINT: 4962 FEATURE CARD P/N 4411694 EQUALS EC 578886 AS BEING INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA:	<u>REA</u>	<u>OLD P/N</u>	<u>NEW P/N</u>
	2710872	4410723	4411694
		1554447	
	2710933	4411070	

366/03-24-78

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
27	E	33		012	ALL	754882	5892424 5892425 5892426 5892427 5892428 5892429 5892430 5892431 5892432 5892433 5892434 5892435 5892436 5892437 5892438	1634791 1634793 1634795 1637561 1637565 1637572 1637582 1637583 1637584 1637585 1637586 1637587 1637588 1637904 4412522 4412940 4412987		B/M DISK ATTACH 4962 B/M DISPLAY ATTACH 4979 B/M SIO ATTACH 4982 B/M TIMER B/M OEM/DPC B/M PRINTER ATTACH 4974 B/M ACCA 1 LN CNTRL B/M BSCA 1 LN MED-SPD B/M BSCA 1 LN HI-SPD B/M SDLC 1 LN CNTRL B/M ACCA 8 LN CNTRL B/M ACCA 4 LN ADAPTER B/M BSCA 8 LN CNTRL B/M DI/DO NON-ISO ATT. B/M DISPLAY ATTACH 4978 B/M TTY ATTACH B/M PRINTER ATTACH 4973	ALL 4959 W/O EC 754882	2.0	0.5

MSIR CODE D

Parts Source and Anticipated Availability Date

CONCURRENT: THE FOLLOWING FB/Ms ARE TO BE INSTALLED CONCURRENT WITH YOUR 4953 OR 4955. ALSO SEE NOTE 1.

DETAIL:

PURPOSE: TO INSTALL ATTACHMENT CARD AND MDLS.

PRE REQ. CHECKPOINT: DIAGNOSTIC DISKETTES AT EC 754862 EQUALS EC 754862 - ECA - 012 (ALSO CHECK MACHINE HISTORY).

CHECKPOINT: DIAGNOSTIC DISKETTES (4-6) AT EC 754882 EQUALS EC 754882 (ALSO CHECK MACHINE HISTORY).

NOTE 1: YOU WILL RECEIVE MULTIPLE B/Ms WITH EC 754882 CUSTOMIZED PER THE FEATURES INSTALLED ON YOUR 4959. SEE "DESCRIPTION OF FEATURE" ABOVE FOR A BREAKDOWN OF THESE B/Ms.

366/03-24-78

27	A	33		007	ALL	754868	2706287	1637570		B/M DISKETTE ATTACHMENT D/C 3581	ALL 4955 WITH B/M 1637570 & W/O EC 754868	1.0	0.7
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MSIR CODE Z

Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED DISKETTE ATTACHMENT CARD. THIS IS AN AS REQUIRED EC FOR DISKETTE (4962) FAILING TO COME READY.

PREREQUISITE: EC 578625, ECA 007

CHECKPOINT: DISKETTE ATTACHMENT FEATURE CARD P/N 4413828 EQUALS EC 754868 INSTALLED (ALSO CHECK MACHINE HISTORY).

CARD REPLACEMENT DATA:

REA	OLD P/N	NEW P/N
2710555	5513240	4413828
2710686	4413298	
EC ONLY	4413298	

367/04-07-78

27	E	33		007	ALL	754957	1636897	4412989		4979 DISPLAY STATION DEVICE CODE = 2964 OR 2971 FRENCH OR BELGIUM	4959 ALL MOD- ELS WITHOUT E/C 754957 AND WITHOUT REA 27-11548	1.0	.7
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MSIR CODE D

Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 037

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR FRENCH OR BELGIUM.

PREREQUISITE: EC 578625 ECA #007

CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413924 EQUALS EC 754957 (ALSO CHECK MACHINE HISTORY)

CARD REPLACEMENT:

OLD P/N	NEW P/N
4411537	4413924

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

20

27	E	33		007	ALL	754939	1636899	4412991	4979 DISPLAY STATION ATTACH DEVICE CODE = 2967 SWEDEN	4959 ALL MOD- ELS WITHOUT E/C 754939 AND WITHOUT REA 27-11550	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 040
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR SWEDEN.
 PREREQUISITE: EC 578625 ECA #007
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413900 EQUALS EC 754939 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT:

OLD P/N	NEW P/N
4411536	4413900

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

21

27	E	33		007	ALL	754955	1636916	4411375	4979 DISPLAY ATTACH DEVICE CODE = 2958 ENGLISH (UNITED KINGDOM)	4959 ALL MOD- ELS WITHOUT E/C 754955 AND WITHOUT REA 27-11546	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 039
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR ENGLAND (U.K.).
 PREREQUISITE: EC 578625 ECA #007
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413922 EQUALS EC 754955 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT:

OLD P/N	NEW P/N
4411523	4413922

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

22

27	E	33		007	ALL	754956	1636896	4412988	4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	4959 WITHOUT EC 754956 & WITHOUT REA 27-11547	1.0	.7
----	---	----	--	-----	-----	--------	---------	---------	---	--	-----	----

MSIR CODE D

Parts Source and Anticipated Availability Date

THIS ECA IS CANCELLED
REFER TO ECA 036
431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4979 FEATURE CARD FOR GERMAN LANGUAGE.
 PREREQUISITE: EC 578625 ECA #007
 CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413923 EQUALS EC 754956 (ALSO CHECK MACHINE HISTORY)
 CARD REPLACEMENT:

OLD P/N	NEW P/N
4411524	4413923

NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
23													
27	E	33		007	ALL	754958	1636898	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE = 2955 OR 2968 OR 2970 FRENCH OR ITALIAN OR JAPANESE	4959 ALL MOD- ELS WITHOUT E/C 754958 AND WITHOUT REA 27-11549	1.0	.7
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
<div style="border: 1px solid black; padding: 5px; display: inline-block;">THIS ECA IS CANCELLED REFER TO ECA 038</div>													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 FEATURE 431 12 5 80 R FRANCE, ITALY OR JAPAN.													
PREREQUISITE: EC 578625 ECA #007													
CHECKPOINT: PRESENCE OF 4979 ATTACHMENT CARD PN 4413925 EQUALS EC 754958 (ALSO CHECK MACHINE HISTORY)													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 4411538 4413925													
NOTE: IF YOUR MACHINE HAS REA LISTED IN MACHINE AFFECTED SECTION INSTALLED, YOU WILL NOT RECEIVE THIS FIELD BILL. IF YOUR HISTORY SHOWS THIS REA INSTALLED, UPDATE IT TO REFLECT THIS EC INSTALLED ON YOUR NEXT SERVICE CALL. 373/06-30-78													
24													
27	E	33		009		578960	1636917	4412987		LINE PRINTER 4973 D/C 5630	ALL 4959 WITH B/M 4412987 AND WITHOUT EC 578960	1.0	0.7
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
<div style="border: 1px solid black; padding: 5px; display: inline-block;">THIS ECA IS CANCELLED REFER TO ECA 061</div>													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4973 FEATURE 431 12 5 80 P/N 4411775.													
PREREQUISITE: EC 578757, ECA 009													
CHECKPOINT: CHECK 4973 ATTACHMENT CARD P/N 4411775 EQUALS EC 578960 INSTALLED.													
CARD REPLACEMENT: <u> OLD P/N </u> <u> NEW P/N </u> 4413134 4411775													
373/06-30-78													
25													
27	E	33		017	All	755243				Start/Stop 1 Line BSCA 1 Line Adap Med Spd BSCA 1 Line Adap Hi Spd Async Comm 8 Line Ctrl BSCA 8 Line Ctrl	All 4959's W/O EC 755243	.2 .2 .2 .2	.0 .0 .0 .0
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
DETAIL:													
Purpose; To Install Improved Diagnostic													
Discription; Replace Diskette P/N 1635002 To Support Map Changes And Replace System Test Diskette P/N 1635003.													
Pre-Requisite; ECA 018 - EC 754882													
Checkpoint; Diskette P/N 1635003 At EC 755104 Equals This EC 755243 Is Installed (Also Check Machine History)													
Note #1; B/M(s) Will Be Included Only If Your System Contains Any Of These Features. 377/09-01-78													
26													
27	E	33		17		755331	712299 712298 712300	1637561 1637583 1637584 1637588 4412522		Timers BSCA 1 Ln Adap Med Sp BSCA 1 Ln Adap Hi Sp BSCA 8 Line Controller 4978 Attachment	All 4959s w/o EC755331	0.2 0.2 0.3	0.0 0.0 0.0
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
COMPANION OR CONCURRENT: Install with Processor B/M 712297. 8/78													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

26 continued

- DETAIL:**
1. Installs improved down line diagnostics for communication features.
 2. Updates diagnostics for timers.
 3. Update 4978 diagnostics to improve diagnostic alternate console operation.

377/09-01-78

27

27	E	33		NONE	ALL	755088	712265	4412940		TTY ADAPTER	4959 WITHOUT REA27-11643 & WITHOUT EC 755088	1.0	0.7
							712289	4412940		TTY ADAPTER	4959 WITH REA27-11643 & WITHOUT EC 755088	0.1	0.0

MSIR CODE D

Parts Source and Anticipated Availability Date ROCH 10/78

THIS ECA IS CANCELLED.
REFER TO ECA 074

431 12 5 80

DETAIL:

PURPOSE: TO INSTALL AN IMPROVED TTY FEATURE CARD. THE NEW CARD DECREASES THE POSSIBILITY OF OVERRUNS BY USING A SINGLE CHARACTER BUFFER.

CHECKPOINT: TTY ADAPTER CARD P/N 4414864 AND LOGIC PAGE SD105 AT 755088 EQUALS THIS EC INSTALLED.

CARD REPLACEMENT: OLD P/N 4413262 NEW P/N 4414864

379/10-06-78

28

27	E	33		26	ALL	755285	0712316	1637570		Diskette Attach	All 4959s	0.2	0.0
							0712317	1637572		Serial Printer Attach	W/O EC755285	0.2	0.0
							0712318	1634791		Disk Attach		0.4	0.0
							0712319	4412987		4973 Printer Attach		0.2	0.0
							0712320	4412522		Display Attach 4987		0.3	0.0
							0712321	1634793		Display Attach 4979		0.2	0.0
								4411375		Display Attach UK			
								4412988		Display Attach German			
								4412989		Display ATT French/Belg			
								4412990		Display ATT Fr/Ital/Jap/UK			
								4412991		Display ATT Sweden			

MSIR CODE D

Parts Source and Anticipated Availability Date 8/78

- DETAIL:**
1. Updates 4962 Disk Diagnostics to include limited vocabulary edit.
 2. Updates 4978 Diagnostics to support 4978 enhancements (EC 755078 releases new 4978 attach card. Diagnostic diskette P/N 1635278 must be at EC level 755285 to test new card. Diskette at 755285 will test both the old level card and the new level card.)
 3. Minor Diagnostic correction to other features.

Checkpoint; Diskette P/N 1635278 at EC 755285 equals this EC installed.

NOTE: This EC 755285 must be installed concurrently on the processor by B/M 712315 (ECA 030 for 4955 and ECA 031 for 4953)

379/10-06-78

29

27	E	33		28	ALL	755078	712268	4412522		4978 ATTACHMENT RPQ D02038	ALL 4959s WITH D02038 AND WITHOUT 755078	1.0	.7
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MSIR CODE D

THIS ECA IS CANCELLED
REFER TO ECA 063

Parts Source and Anticipated Availability Date 10/78

431 12 5 80

DETAIL:

PURPOSE: TO INSTALL IMPROVED 4978 ATTACHMENT CARD. NEW CARD ADDS SYS RESET TO 4978 ATTACHMENT. TO REMOVE CABLE ASSEMBLY P/N 8326879 IF REA 27-11659 INSTALLED.

CHECKPOINT: 4978 ATTACHMENT P/N 8326924 EQUALS 755078 INSTALLED.

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

29 continued

CARD REPLACEMENT: OLD P/N NEW P/N
 4413882 8326924

PRE REQ: EC 755285

PREREQ CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635278 AT EC 755285 EQUALS PREREQ INSTALLED. 379/10-06-78

30

27	E	33		17	ALL	755136	0712291	1634793		4979 ATTACHMENT	ALL 4959s WITH 4979 FEATURE B/M 1634793 W/O EC 755136	1.0	.7
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MSIR CODE D Parts Source and Anticipated Availability Date 9/78

DETAIL:

PURPOSE: INSTALL NEW 4979 ATTACH CARD. CORRECTS END OF LINE DETECTION.

CHECKPOINT: 4979 ATTACHMENT CARD 8326918 EQUALS 755136 INSTALLED.

PREREQUISITE: EC 754882

PREREQUISITE CHECKPOINT: DIAGNOSTIC DISKETTE P/N 1635001 AT EC 754882 OR HIGHER EQUALS PREREQ INSTALLED.

CARD REPLACEMENT: OLD P/N NEW P/N
 4413921 8326918 379/10-06-78

31

27	E	33		7 14	ALL	755124	0712259	1637583		BSCA SINGLE LINE DC2074	ALL 4959s	1.0	0.7
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MSIR CODE D Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO INSTALL IMPROVED BSCA (9600 BAUD) FEATURE CARD, P/N 8327258

DESCRIPTION: THIS ECA IS CANCELLED REFER TO ECA 042

- TIMING CORRECTED TO ALLOW
- BUSY IS NOW RESET AFTER IPL TO PREVENT "BUSY AFTER RESET" BEING RETURNED TO ALL COMMANDS AFTER IPL.
- CORRECTED CONDITION OF A SINGLE "DC1" CHARACTER SETTING IPL MODE.
- CORRECTED CONDITION OF "SELECT MODE" BEING RESET AFTER MULTI-POINT IPL.
- THE HOST NOW HAS 13 SECONDS TO COMPLETE AN IPL SEQUENCE OVER SWITCHED LINES BEFORE DTR IS DROPPED.
- IPL OVER A SWITCHED LINE MAY NOW BE BLOCKED BY ISSUING AN OIO WITH A BYTE COUNT LESS THAN 3 WITHIN 50 MS OF RING INTERRUPT.
- RING INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF "RING" AND NOT ON THE FALL OF "RING".

CARD REPLACEMENT: OLD P/N NEW P/N
 4411740 8327258 379/10-06-78

32

27	E	33		7	All	755128	0712258	1637584		BSCA High Speed DC 2075	All 4959's	1.0	0.7
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MSIR CODE D Parts Source and Anticipated Availability Date

DETAIL:

Purpose: To install improved BSCA (9600 baud) feature card P/N 8327259.

Description: THIS ECA IS CANCELLED REFER TO ECA 043

- Timing correct
- Busy is now reset after IPL to prevent "BUSY AFTER RESET" being returned to all commands after IPL.
- Corrected condition of a single "DC1" character setting IPL mode.
- "Corrected condition of "Select Mode" being reset after multi-point IPL.

Card Replacement: Old P/N New P/N
 4411742 8327259
 8326899

379/10-06-78

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
33													
27	E	33		7		578701	8326723	1637599		CHANNEL REPOWER	4959s W/O EC 578701	0.7	0.5
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 8/78							
DETAIL:													
INSTALLS IMPROVED CHANNEL REPOWER CARD P/N 4411841.													
						OLD P/N	NEW P/N						
						4410759	4411841	379/10-06-78					
34													
27	E	33			ALL	755458	6837833	4411549		4987 ATTACHMENT	4959's WITH 4987 ATTACH- MENT FEATURE	.2	
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date 12/78							
DETAIL:													
PURPOSE: THIS ENGINEERING CHANGE INSTALLS AN IMPROVED MAINTENANCE PACKAGE FOR THE 4987 ATTACHMENT FEATURE.													
PREREQUISITE: THE SERIES/1 BASIC DIAGNOSTICS MUST BE AT EC 755331 OR HIGHER.													
CHECKPOINT: THE BASIC DIAGNOSTIC DISKETTE MUST BE AT EC 755331 OR HIGHER.													
NOTE: THIS B/M 6837833 MUST BE INSTALLED CONCURRENTLY WITH B/M 6837832 ON THE 4987 (ECA 001). 385/01-05-79													
35													
27	A	33				374989	6837317	1637597		ELEC/MECH GROUP	ALL 4959'S	0.5	0.5
MSIR CODE <u>C</u>						Parts Source and Anticipated Availability Date 2/79							
DETAIL:													
PURPOSE: INSTALL RUBBER PADS INSIDE OF BOARD COVERS.													
DESCRIPTION: CORRECTS SHORTING OF POWER CABLES TO BOARD COVER SCREWS. 389/03-09-79													
36													
27	E	33		17		755138	712293	4412988		4979 DISPLAY STATION ATTACH DEVICE CODE 2957 GERMAN	ALL 4959 WITH B/M 4412988 WITHOUT E/C 755138	1.0	.7
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326920 EQUALS E/C INSTALLED.													
CARD REPLACEMENT:						OLD P/N	NEW P/N						
						4413923	8326920	389/03-09-79					
						4411524							

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
37													
27	E	33		17		755140	712295	4412989		4979 DISPLAY STATION ATTACH DEVICE CODE 2964 OR 2971 FRENCH OR BELGIUM	ALL 4959 WITH B/M 4412989 WITHOUT E/C 755140	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326922 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4413924	8326922						389/03-09-79
38													
27	E	33		17		755141	712296	4412990		4979 DISPLAY STATION ATTACH DEVICE CODE 2955, 2968 OR 2970 FRENCH, ITALIAN, JAPANESE	ALL 4959 WITH B/M 4412990 WITHOUT E/C 755141	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326923 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4413925	8326923						389/03-09-79
39													
27	E	33		17		755137	712292	4411375		4979 DISPLAY STATION ATTACH DEVICE CODE 2958 ENGLISH (UK)	ALL 4959 WITH B/M 4411375 WITHOUT E/C 755137	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED 4979 ATTACHMENT CARD.													
PRE REQ: E/C 754882													
CHECKPOINT: 4979 ATTACHMENT P/N 8326919 EQUALS E/C INSTALLED.													
CARD REPLACEMENT: <u>OLD P/N</u> <u>NEW P/N</u>													
						4413922	8326919						389/03-09-79
40													
27	E	33		17		755139	712294	4412991		4979 DISPLAY STATION ATTACH DEVICE CODE 2967 SWEDEN	ALL 4959 WITH B/M 4412991 WITHOUT E/C 755139	1.0	.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

44													
27	E	33		07	ALL	755502	0712310	1637586		ACCA 8 LINE CONTROLLER	4959'S WITH B/M 1637586 WITHOUT EC 755502	1.0	0.7
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		3/79

DETAIL:

- PURPOSE: INSTALL IMPROVED ACCA 8 LINE CONTROLLER FEATURE CARD.
1. IMPROVES PATCH AREAS IN EACH ROS.
 2. GET A MODEM INTERFACE RROR INSTEAD OF TIME OUT ON AN XMIT WITH TIMER 2 = 0.
 3. RESET RECEIVE MODE ON ANY ILR CONDITION.
 4. ENABLE WITH TIME OUT OR ENABLE WITH ANSWER TONE AND TIME OUT WILL PRESENT MODEM INTERFACE, ERROR, INSTEAD OF TIME OUT IF WE HAVE NO DSR.
 5. CORRECTS LOST CONTROLLER AND INTERRUPT CONDITION.
 6. CORRECTS CONTROLLER BUSY "FOREVER" CONDITION.
 7. CORRECTS INTERRUPTING WITH WRONG DEVICE ADDRESS.
 8. CORRECTS WRONG RESIDUAL ADDRESS ON TIME OUT.
 9. CYCLE STEALS LAST RECEIVED CHARACTER INTO STORAGE ON TIME OUT CONDITION.
 10. ADDED TEST POINTS FOR MANUFACTURING.

CHECKPOINT: ACCA CARD, P/N 6826147, EQUALS THIS EC INSTALLED.

CARD REPLACEMENT: OLD P/N NEW P/N
 4410726 6826147
 4411886

389/03-09-79

45													
27	E	31		7	ALL	755503	0712311	1637588		BSCA 8-LINE CONTROL	ALL 4959'S WITH B/M 1637588 WITHOUT EC 755503	1.0	0.7
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		3/79

DETAIL:

- PURPOSE: TO INSTALL IMPROVED 8-LINE CONTROLLER FEATURE CARD P/N 6826149
- DESCRIPTION: -ATTENTION INTERRUPT NOW OCCURS 200 MS AFTER THE RISE OF RING INDICATOR.
 -CORRECTS POSSIBLE LOST CONTROLLER END PROBLEM.
 -INTERRUPT PENDING IS CLEARED WHEN A 1/2 J/O COMMAND IS ISSUED.
 -PREVENTS LOSS OF THE LAST BYTE OF AN INVALID LENGTH RECORD, IF AT AN EVEN ADDRESS.

CARD REPLACEMENT DATA: OLD P/N NEW P/N
 8327156 6826149

389/03-09-79

46													
27	E	33		41	ALL	374888	6838898 6838899	1634791 1634793 4412988 4412989 4412990 4412991 4411375 8326904 8326905 8326906		4962 ATTACHMENT 4979 ATTACH. - U.S. 4979 ATTACH. - WTC "	ALL 4959'S	0.2 0.2	0.0 0.0
MSIR CODE <u>D</u>											Parts Source and Anticipated Availability Date		
<p>6838900 1637572 4974 ATTACHMENT ALL 4959'S 0.2 0.0</p> <p>6838901 4412522 4978 ATTACHMENT ALL 4959'S 0.2 0.0</p> <p>6838902 4412940 TTY ATTACHMENT ALL 4959'S 0.2 0.0</p> <p>6838903 4412987 4973 ATTACHMENT ALL 4959'S 0.2 0.0</p>													

DETAIL: CONCURRENT: B/M 6838897 FOR ALL 4953, 4955

PURPOSE: TO INSTALL UPDATED MAINTENANCE DOCUMENTATION

PREREQUISITE: ECA 041 EC 755404

389/03-09-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

47													
27	E	33		044	ALL	375135	6838822 6838823 6838824 6838825 6838826 6838827	1637582 1637588 8327201 1637585 1637583 1637584 1637586		S/S 1-LINE ADAPTER BSCA 8-LINE CONTROLLER RPQ D02198 (COD-8 LINE) SDLC ADAPTER BSCA 1-LINE ADAPTER BSCA H.S. ADAPTER S/S 8-LINE CONTROLLER	ALL 4953's W/O EC 375135	0.2	0.2

MSIR CODE D

Parts Source and Anticipated Availability Date

COMPANION OR CONCURRENT: B/M 6838414 (ECA 050 - 4953) OR (ECA 052 - 4955)

DETAIL:

PURPOSE: TO PROVIDE UPDATED DOCUMENTATION TO SUPPORT COMMUNICATION FEATURES.

CHECKPOINT: DIAGNOSTIC DISKETTE (P/N 1635002) AT EC 755135.

390/03-23-79

48													
27	E	33		041	ALL	755393	0712335	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4959 WITH B/M 4411549 AND WITHOUT EC 755393	1.0	.6

MSIR CODE D

Parts Source and Anticipated Availability Date 2/79

DETAIL: INSTALL AN IMPROVED CHANNEL ATTACHMENT CARD.

PURPOSE: CORRECTS A TIMING PROBLEM THAT ALLOWED AN INCORRECT CONDITION CODE TO BE RETURNED BY THE 4987 (RETURNED CC=1 SHOULD HAVE BEEN CC=16).

DESCRIPTION: NEW CARD OLD CARDS

6826514	6826156	6826209
	4413980	8326869
	6826157	

390/03-23-79

49													
27	E	33		048	ALL	375099	6839162	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4959'S WITH B/M 4411549 & WITHOUT EC 375099	.6	.6

MSIR CODE D

Parts Source and Anticipated Availability Date

2/79

DETAIL: INSTALLS AN IMPROVED CONTROLLER CARD.

PURPOSE: INCORPORATES SEVERAL MICRO CODE CORRECTIONS.

DESCRIPTION: NEW CARD OLD CARDS

6838163	4411055	8327260
	4413860	8327456
	4414640	8333815
	8326868	6826159

390/03-23-79

50													
27	E	33		041	ALL	375032	6839115	4411549		4987 CONTROLLER FEATURE (F.C. 1300)	4959'S WITH B/M 4411549 & WITHOUT EC 375032	.2	0

MSIR CODE D

Parts Source and Anticipated Availability Date

4/79

DETAIL: THIS EC PROVIDES A NEW DIAGNOSTIC PACKAGE FOR THE 4987 CONTROLLER FEATURE.

PURPOSE: TO MAKE THE DIAGNOSTIC TIMINGS PROCESSOR INDEPENDENT AND CORRECT SEVERAL ERRORS IN THE DIAGNOSTIC PACKAGE.

CHECKPOINT: THE 4987 DIAGNOSTIC DISKETTE MUST BE AT EC 375032 OR 375032 MUST BE INSTALLED CONCURRENTLY ON THE 4987.

390/03-23-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
51													
27	E	33		none		754960	8327162	1637597		Elec/Mech Final Asm	4959's WTC Only	2.0	2.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL: Replaces two fuse holders in the 300 watt power supply. This field bill to be shipped to World Trade only.											401/08-31-79		
52													
27	E	33		41	ALL	375052	6839318	1634795		4982 ATTACH	ALL 4959'S	0.5	0.2
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: 6839319 6839320 6839321 6839322 6839323. THESE BILLS ARE ON MACHINE TYPE 4982 (FCA 12)													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS.													
DESCRIPTION: PROVIDE UPDATED DISKETTE TO SUPPORT SENSOR I/O FEATURES BEING UPDATED ON CONCURRENT FBMs.													
DISKETTE REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u>													
1635279 1635279													
(EC 754882) (EC 375052)													
PREREQS: EC 755404, CHECKPOINT DISKETTE P/N 1635001 AT EC 755404.													
											401/08-31-79		
53													
27	E	33		044	ALL	755551	6839229	1637561		TIMER	ALL 4959'S	0.2	0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
CONCURRENT: 1. B/M 6839235 (4953 A TO D)													
2. B/M 6839234 (4955 A TO D)													
3. B/M 6839239 (4955 E)													
PURPOSE: TO UPDATE DIAGNOSTIC DOCUMENTATION.													
PREREQUISITE: ECA 044 EC 755404 (CHECKPOINT - DISKETTE P/N 1635001)													
											401/08-31-79		
54													
27	E	33		53	ALL	375245	6839113	6826403		ACCA 1 STOP BIT RPQ D02236	ALL 4953'S WITHOUT EC 375245	1.0	0.7
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO INSTALL IMPROVED ACCA, RPQ D02236, CARD P/N 6839111.													
DESCRIPTION: CORRECTS RESET OF RECEIVING MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.													
CARD REPLACEMENT DATA: <u>OLD P/N</u> <u>NEW P/N</u>													
6837365 6839111													
PREREQUISITES: EC 755551, CHECKPOINT DISKETTE P/N 1635001 AT EC 755551.													
											401/08-31-79		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

55													
27	E	33		07	ALL	375244	6839112	1637582		ACCA 1 LN. ADAPTER DC 1610	ALL 4959'S WITHOUT EC 375244	1.0	0.7
MSIR CODE <u> </u> D					Parts Source and Anticipated Availability Date								

DETAIL:

PURPOSE: TO INSTALL IMPROVED ACCA 1 LN FEATURE, CARD P/N 6839110.

DESCRIPTION: CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.

CARD REPLACEMENT DATA: OLD P/N NEW P/N
 4411744 6839110
 6826141

PREREQUISITE: EC 578625 CHECK MACHINE HISTORY.

401/08-31-79

56													
27	A	33		053	ALL	375147	6840500	1634791		DISK ATTACHMENT	ALL 4959'S	0.2	0.0
							6840501	1637561		TIMER	WITHOUT	0.2	0.0
							6840502	1637582		S/S 1-LINE ADAPT	EC 375147	0.2	0.0
							6840503	1637586		ASYNC COMM 8 LN CTRL	AND WITH	0.2	0.0
							6840507	4413769		TWO CHANNEL SWITCH	THESE FEATURES	0.2	0.0
							6840508	6826403		S/S 1 STOP BIT		0.2	0.0
							6840509	8327706		GPIB ADAPTER		0.2	0.0
							6840511	8377550		4952A		1.0	1.0
							6840512	8327558		4952B		1.0	1.0
							6840505	1637980		4953A		1.0	1.0
								1637981		4953B		1.0	1.0
								4411355		4953C		1.0	1.0
								4411356		4953D		1.0	1.0
							6840504	1637753		4955A		1.0	1.0
							6840506	1637983		4955B		1.0	1.0
							6840801	4411367		4955C		1.0	1.0
							6840802	4411368		4955D		1.0	1.0
							6840510	8326805		4955E		1.0	1.0
MSIR CODE <u> </u>					Parts Source and Anticipated Availability Date								

CONCURRENT: ONE OF THE CPU FB/MS WILL BE INSTALLED CONCURRENTLY WITH THIS FB/M.

DETAIL:

PURPOSE: TO PROVIDE UPDATED DOCUMENTATION FOR THE ABOVE FEATURES.

PREREQ: EC 755551 ECA 53 (CHECKPOINT - DISKETTE PN 1635001).

401/08-31-79

57													
27	E	33		NONE	ALL	375221	6838858	1637585		SDLC ATTACHMENT DC 2090	ALL 4959'S	0.2	0.0
MSIR CODE <u> </u> D					Parts Source and Anticipated Availability Date								

DETAIL:

PURPOSE: TO PROVIDE AN UPDATED LOGIC PAGE SC 610.

401/08-31-79

58													
27	E	33		28		755536	6838524	4412987		4973 LINE PRINTER ATT	ALL 4959'S WITHOUT 755536	1.0	0.7
MSIR CODE <u> </u> D					Parts Source and Anticipated Availability Date								

DETAIL:

- THIS ECA IS RELEASED FOR WTC ONLY. ALL U.S. BUILT MACHINES WITH 4973 ATTACHMENT WILL BE FIELD UPDATED BY EC 375420. SEE ECA 002 FOR 4952, ECA 66 FOR 4953, ECA 68 FOR 4955 AND ECA 61 FOR 4959.
- DO NOT ORDER THIS ECA (EC 755536) FOR U.S. BUILT MACHINES.

414/03-21-80

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
59													
27	E	33		56		375033	6840487	4413769		TWO CHANNEL SWITCH	4959'S WITH B/M 4413769	1.0	0.6
						MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date					
DETAIL:													
INSTALLS IMPROVED TWO CHANNEL SWITCH CARD WITH UPGRADED REPOWER DRIVERS.													
NEW CARD P/N 6839262 REPLACES P/N 6826201.											414/03-21-80		
60													
27	A	33		056	ALL	375401	6841444	1637583		BSCA 1 LN ADAP, MD SPD	ALL 4959'S	0.3	0.0
							6841446	1637584		BSCA 1 LN ADAP, HI SPD	WITHOUT	0.3	0.0
							6841446	1637588		BSCA 8 LN CONTROLLER	EC 375401	0.3	0.0
							6841446	8327201		BSC COD DISABLE RECG		0.3	0.0
						MSIR CODE <u> C </u>		Parts Source and Anticipated Availability Date					
CONCURRENT: FB/M 6841441 (4955E) OR FB/M 6841442 (4955 A-D) OR FB/M 6841443 (4953 A-D) OR FB/M 6841450 (4952 A) OR FB/M 6841451 (4952 B).													
DETAIL:													
PURPOSE: TO UPDATE RAS TO MAINTAIN COMPATIBILITY WITH THE 4952 RELEASE.													
PREREQ: ECA 056 EC 375147													
CHECKPOINT: DIAGNOSTIC DISKETTE (PN 1635001) AT EC 375147.											414/03-21-80		
61													
22	E	33		46		375420	6840781	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 OR 755536 OR REA 27-12260	1.0	0.7
							6840885	4412987		LINE PRINTER 4973 ATTACH	ALL CARD FILES WITH 4973 ATTACH AND WITHOUT EC 375420 AND WITH EC 755536 OR WITH REA 27-12260		
						MSIR CODE <u> D </u>							
DETAIL:													
B/M 6840781													
INSTALLS IMPROVED 4973 ATTACHMENT CARD P/N 6840387													
1. PREVENTS UNDETECTED SYNC CHECKS.													
2. PREVENTS CONTINUOUS BELT RUN CONDITION RESULTING FROM CERTAIN SYNC CHECKS.													
3. PREVENTS UNDETECTED FORMS CHECKS.													
CARD REPLACEMENT DATA: <u> OLD P/N </u> <u> NEW P/N </u>													
						6825312	6840387						
						4411775							
B/M 6840885													
ADDS A LABEL TO CARD P/N 6825312 TO CHANGE P/N TO 6840387. CARD P/N 6825312 IS FUNCTIONALLY EQUIVALENT TO CARD P/N 6840387.													
											414/03-21-80		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
66													
27	A	33		064	ALL	375465	6843675 6843676 6843677 6843678 6843679 6843680 6843680 6844067 6844078	1637565 1637582 1637583 1637584 1637585 1637586 1637588 8327201 1637904 6837366		OEM DPC INTERFACE ASYNCHR START/STOP BSCA 1 LINE ADAPT BSCA 1 LINE ADAPT H SPD SDLC SINGLE LINE CONTROL ASYN COMM 8 LINE CONTROL BSCA 8 LINE CONTROL RPQ DO 2198 DIGITAL I/O PROG 8 LINE COMM	ALL 4959's WITHOUT EC 375465	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
			MSIR CODE <u>C</u>		Parts Source and Anticipated Availability Date								
DETAIL: CONCURRENT: B/M 6843681 FOR CPU 4952, 4953, 4955.													
PURPOSE: UPDATE DIAGNOSTICS FOR COMMUNICATION FEATURES. UPDATE FEATURE PROGRAMMABLE MULT-LINE DIAGNOSTICS TO FCS LEVEL.													
PREREQUISITE EC 375094 ECA 064													
CHECKPOINT DISKETTE P/N 1635002													
												428/10-17-80	
67													
27	A	33		060	All	375384	6843668 6843669 6843669 6843669 6843671 6843672 6844240 6843670 6843667 6843674	1637561 1637583 1637584 1637588 1637582 1637585 6827113 1637846 1637563 4413769		Timer BSC 1 LN Adapt (Md. Spd.) BSC 1 LN Adapt (Hg. Spd.) BSC 8 LN Controller Start/Stop 1 LN Adapt SDLC Single LN 4966 Attach 4982 4955 FPS TCS	All 4959's Without EC 375384	0.5 0.5 0.5 0.5 0.5 1.0 0.5 0.5 0.5 0.5	0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
COMPANION OR CONCURRENT: FB/M 6842518 (4952A) or FB/M 6842519 (4952B) or FB/M 6842522 (4953A, C) or FB/M 6842520 (4953 B, D) or FB/M 6842521 (4955 A, D) or FB/M 6842523 (4955 E).													
DETAIL: Update Maps.													
												431/12-5-80	
68													
27	A	33		60	All	375475							
			MSIR CODE _____		Parts Source and Anticipated Availability Date								
DETAIL: This ECA is for sequence purposes only. This EC 375475 is installed by EC 375384 reference. 4959 ECA 067													
												431-12-5-80	
69													
27	E	33		None	All	375321	6844986	6826371		Ship GRP. 5250 Attachment	All with B/M 6826371 W/O EC 375321	0.5	0.5
			MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date								
DETAIL: This EC corrects Map errors and supplies a new initializer diskette.													
												431-12-5-80	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time			
								Feature B/M #	Seq #	Description of Feature		Man	Sys		
70															
27	E	33		None	All	375322	6826590	6826371			Ship GRP 5250 Attachment	All Machines without EC 375322	0.5	0.5	
			MSIR CODE <u> D </u>									Parts Source and Anticipated Availability Date			
DETAIL: This EC corrects diskette errors and adds Spanish Menos to the diskette.												431 12 5 80			
71															
27	A	33				376376	N/A					All w/o EC 376376	.5	.5	
			MSIR CODE <u> </u>									Parts Source and Anticipated Availability Date			
DETAIL: 4963 RAS change. This EC is released for records purposes only and will be picked up on EC 877036.												431 12 5 80			
72															
27	E	33		none		375603	6844554	6825474 6825469 8327706			S/1 to S/1 Att. 1 S/1 to S/1 Att. 2 GPIB Adapter	All 4959's with FB/M 6825474 or FB/M 6825469 or FB/M 8327706 w/o EC375603	1.0	.7	
			MSIR CODE <u> </u>									Parts Source and Anticipated Availability Date			
DETAIL: Purpose: To install improved general purpose interface adapter feature card.												432/12-19-80			
73															
27	A	33		007		375666	6843309	1637586			ASYNC COMM 8 LN CTRL	ALL WITH B/M 1637586 W/O EC 375666	1.0	0.7	
			MSIR CODE <u> </u>									Parts Source and Anticipated Availability Date			
DETAIL:															
INSTALLS NEW ACCA 8 LINE CONTROL FEATURE CARD. CORRECTS THE FOLLOWING CONDITIONS:															
1) TIMEOUT ON RECEIPT OF EOB BEFORE CHECKING LRC. 2) RESETTING OF STATUS WORDS AFTER TIMEOUT. 3) EXTRA CYCLE STEAL CYCLES ON CHAINED TRANSMIT OPERATIONS. 4) LOSS OF CONTROLLER END INTERRUPT.															
						NEW P/N: 6841989		OLD P/N: 6840560						432/12-19-80	
74															
27	A	33		NONE	ALL	375542	6841907	4412940			TTY Adapter	All 4959 w/TTY attach w/o EC375542	1.0	0.7	
			MSIR CODE <u> C </u>									Parts Source and Anticipated Availability Date			
DETAIL: To install improved TTY Card P/N 6841065															
Description: Decrease possibility of data shift for devices using single stop bit.															
Card Replacement Data:						Old P/N 4414864		New P.N 6841065						432/12-19-80	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time																								
								Feature B/M #	Seq #	Description of Feature		Man	Sys																							
75																																				
27	E	33		007		375654	6841973	1637582		START/STOP 1LN ADAPT	ALL WITH B/M 1637582 W/O EC 375654 OR REA 27-12319	1.0	0.7																							
MSIR CODE _____ Parts Source and Anticipated Availability Date																																				
DETAIL:																																				
INSTALLS IMPROVED ACCA 1 LINE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.																																				
NEW P/N: 6841911 OLD P/N: 6840559 432/12-19-80																																				
76																																				
27	E	33		NONE		375655	6841974	6826403		S/S SINGLE STOP BIT	ALL WITH B/M 6826403 W/O EC 375655 OR REA 27-12320	1.0	0.7																							
MSIR CODE _____ Parts Source and Anticipated Availability Date																																				
DETAIL:																																				
INSTALLS IMPROVED ACCA 1 LINE RPQ D02236 FEATURE CARD. CORRECTS RESET OF RECEIVE MODE IF INCORRECT LENGTH RECORD AND NEXT CHARACTER IS AN LRC.																																				
NEW P/N: 6841912 OLD P/N: 6840565 432/12-19-80																																				
77																																				
27	E	33		048 078		375357	6843317	4411549		PCM Controller	All 4959's With B/M 4411549 W/O EC 375357	1.0	.6																							
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date																																				
DETAIL: Installs an improved controller card.																																				
Purpose: Incorporates several micro code corrections and support for new orders.																																				
Description:																																				
<table border="0"> <tr> <td></td> <td><u>New Card</u></td> <td><u>Old Cards</u></td> <td></td> </tr> <tr> <td></td> <td>6839661</td> <td>4411055</td> <td>8327456</td> </tr> <tr> <td></td> <td></td> <td>4413860</td> <td>8333815</td> </tr> <tr> <td></td> <td></td> <td>4414640</td> <td>6826159</td> </tr> <tr> <td></td> <td></td> <td>8326868</td> <td>6838163</td> </tr> <tr> <td></td> <td></td> <td>8327260</td> <td></td> </tr> </table>														<u>New Card</u>	<u>Old Cards</u>			6839661	4411055	8327456			4413860	8333815			4414640	6826159			8326868	6838163			8327260	
	<u>New Card</u>	<u>Old Cards</u>																																		
	6839661	4411055	8327456																																	
		4413860	8333815																																	
		4414640	6826159																																	
		8326868	6838163																																	
		8327260																																		
432/12-19-80																																				
78																																				
27	A	33		050		375469	6844996	4411549		PCM CONTROLLER	4959 With Feature B/M 4411549 W/O EC 375469	0.5	0.5																							
MSIR CODE _____ Parts Source and Anticipated Availability Date																																				
CONCURRENT: 4987 B/M 6844995																																				
DETAIL: UPDATE DOCUMENTATION TO SUPPORT DIAGNOSTIC CHANGES ON 4987 ECA 004.																																				
432/12-19-80																																				

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
79														
27	A	33		68		375427	6844597	8327308			System/370 Chan. Atth.	All with B/M 8327308 W/O EC 375427	0.5	0.5
			MSIR CODE _____			Parts Source and Anticipated Availability Date								
<p>CONCURRENT: 6844596 applies only to 4955.</p> <p>DETAIL:</p> <p>Update maps and diagnostics for 370 attach. to increase effectiveness. Machines in the field should already have this EC installed and should not have to order this EC.</p>													432/12-19-80	
80														
27	A	33		060 079		876741	6845042	8327308			System/370 Chan ATTH	All with B/M 8327308 W/O EC 876741 and W/O REA 27-12433	1.2	1.0
			MSIR CODE _____			Parts Source and Anticipated Availability Date								
<p>DETAIL: Installs improved Series/1 System/370 Attachment card. Corrects not dropping load light during host IPL.</p> <p>New P/N 6844238 Old P/N 6842481</p>													432/12-19-80	
81														
27	E	33		None		876907	6846720	6840490			Data entry loop-1st D02312	4959	1.0	.7
			MSIR CODE _____			Parts Source and Anticipated Availability Date 5-9-80								
<p>DETAIL: To install improved DCI/1 controller card P/N 6844673 to correct timing conditions which may occur on card P/N 6842497.</p>													432/12-19-80	
82														
27	E	33		NONE	ALL	375200	6826768	8327254			5250 DISPLAY ATTACH	ALL 4952's 4953's, 4955's and 4959's with FTR B/M 8327254 and without 375200	1.0	1.0
			MSIR CODE _____ D			Parts Source and Anticipated Availability Date								
<p>DETAIL: PURPOSE: TO UPDATE THE 5250 ATTACHMENT AND DRIVER/RECEIVER CARDS TO NEW LEVELS.</p> <p>DESCRIPTION: REPLACE ATTACHMENT CARD P/N 6827095 WITH NEW P/N 6838849.</p>													432.12-19-80	
83														
27	E	33		none		375201	N/A	8327254			All w/o EC 375201	.5	.5	
			MSIR CODE _____			Parts Source and Anticipated Availability Date								
<p>DETAIL: Update ROS. This EC is released for records purposes only and will be picked up on EC 375515.</p>													432 12-19-80	

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time				
								Feature B/M #	Seq #	Description of Feature		Man	Sys			
B4																
27	E	33		056		375393	6840798	6827113		AUTOLOADER DISKETTE	ALL WITH B/M 6827113 W/O EC 375393 or REA 27-12236	1.0	0.7			
			MSIR CODE _____		Parts Source and Anticipated Availability Date											
<p>DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. THIS ECA IS OBSOLETE BY EC 375656.</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>NEW P/N</u></td> <td style="text-align: center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align: center;">6840515</td> <td style="text-align: center;">6839345 6839724 6840513</td> </tr> </table> <p style="text-align: right;">432/12-19-80</p>													<u>NEW P/N</u>	<u>OLD P/N</u>	6840515	6839345 6839724 6840513
<u>NEW P/N</u>	<u>OLD P/N</u>															
6840515	6839345 6839724 6840513															
B5																
27	A	33		056		375352	6839768	4412759		4963 Attachment	All with B/M 4412759 W/O EC 375352	1.0	0.7			
			MSIR CODE _____		Parts Source and Anticipated Availability Date											
<p>COMPANION OR CONCURRENT: NONE</p> <p>DETAIL: INSTALLS NEW ATTACHMENT CARD. NO FUNCTIONAL IMPROVEMENTS ARE MADE WITH THIS EC. THIS IS FOR INFORMATION ONLY. OLD AND NEW PARTS ARE FUNCTIONALLY EQUIVALENT.</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>NEW P/N</u></td> <td style="text-align: center;"><u>OLD P/N</u></td> </tr> <tr> <td style="text-align: center;">6839659</td> <td style="text-align: center;">6838056</td> </tr> </table> <p style="text-align: right;">432/12-19-80</p>													<u>NEW P/N</u>	<u>OLD P/N</u>	6839659	6838056
<u>NEW P/N</u>	<u>OLD P/N</u>															
6839659	6838056															
B6																
27	E	33		056 069	ALL	375515	6842669	8327254		5250 DISPLAY ATTACH	ALL 4959's WITH B/M 8327254 W/O EC 375515 AND WITH EC 375201	1.0	1.0			
			MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date											
<p>DETAIL: PURPOSE: TO UPDATE EARLY SHIP 5250 INFORMATION DISPLAY SYSTEM ATTACHMENT TO FCS LEVEL HARDWARE. DESCRIPTION: THE ATTACHMENT CARD IS REPLACED AND A CONTROL STORAGE LOADER DISKETTE IS INSTALLED WITH B/M 6842669. IF B/M 6838611 IS INSTALLED THE DRIVER/RECEIVER CARD IS ALSO REPLACED. SPECIAL TOOLS REQUIRED: A CE MAINTENANCE CONSOLE WILL BE REQUIRED IF THE SYSTEM DOES NOT HAVE A PROGRAMMER'S CONSOLE OR AN OPERATING 5251.</p> <p>NOTE: MACHINES WITH REA'S 27-12267 AND 27-12110 EQUALS EC 375201 INSTALLED.</p> <p style="text-align: right;">432/12-19-80</p>																
B7																
27	E	33		056		375333	6841114	4413790		SHIP GRP D02045	ALL 4959 W/ RQ 2045, B/M 4413790 AND W/O EC 375333	1.0	1.0			
			MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date											
<p>DETAIL:</p> <p>PURPOSE: REPLACE DIAGNOSTIC DISKETTE P/N 4413541 FOR S/1 TO S/7 LOCAL ATTACHMENT.</p> <p>UPDATE MAINTENANCE DOCUMENTATION</p> <p>PREREQUISITES EC 375147 - INSTALL IMPROVED DIAGNOSTIC DISKETTE P/N 1635001</p> <p style="text-align: right;">432/12-19-80</p>																

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM

Engineering Change Announcements
Group 869
4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
88													
27	A	33		NONE		375481	6841797	1637591		COMMUNICATION POWER	ALL 4953 MODEL B OR D, 4959 WITH FEATURE B/M1637591 W/O EC375481 OR REA27-12253	0.5	0.5
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>COMPANION OR CONCURRENT: NONE</p> <p>DETAIL: IF P/S SEQUENCE CARD IS REPLACED FROM P/N4412948 TO P/N6839225 AND FEATURE 1637591 IS PRESENT (COMMUNICATION POWER) THIS EC MUST BE INSTALLED. THIS EC CORRECTS A TIMING PROBLEM BETWEEN P/S SEQUENCE CARD 6839225 AND COMM. POWER CARD 4412932.</p> <p style="text-align: center;"> <u>NEW P/N</u> <u>OLD P/N</u> 6840803 4412932 </p> <p>NOTE: INSTRUCTIONS FOR THIS EC SAY APPLIES TO 4953 B OR D, AND 4959. THEY SHOULD ALSO INCLUDE 4955 A, B, C, or D. 432.12-19-80</p>													
89													
27	A	33		007		375664	6843308	1637588		BSCA 8 LN CONTROLLER	ALL WITH B/M 1637588 W/O EC 375664	1.0	0.7
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL: INSTALLS IMPROVED BSCA 8 LINE CONTROL FEATURE CARD. CORRECTS LOSS OF CONTROLLER END INTERRUPT.</p> <p style="text-align: center;">NEW P/N: 6841988 OLD P/N: 6840563 432.12-19-80</p>													
90													
27	E	33		93	ALL	375694	6844595	6826371		SHIP GRP. 5250	All 4952's 4953's 4955's and 4959's With FEA B/M 6826371 and W/O EC 375694	0.5	0.5
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL: PURPOSE: TO UPDATE THE 5250, INFORMATION DISPLAY, ATTACHMENT PACKAGE. DESCRIPTION: TO REVISE AND UPDATE THE DIAGNOSTIC MAPS. 432.12-19-80</p>													
91													
27	A	33		056		375397	6844559	6827113		AUTOLOADER DISKETTE	All With B/M 6827113 W/O EC 375397	0.5	0.5
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL: REPLACES DIAGNOSTIC DISKETTE 6838000 WITH NEW DISKETTE. UPDATES MAPS AND DIAGNOSTICS FOR 4966. 432.12-19-80</p>													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time										
								Feature B/M #	Seq #	Description of Feature		Man	Sys									
92	27	A	33		056		375656	6842602	6827113		AUTO LOADER DISKETTE	ALL WITH B/M 6827113 W/O EC 375656 OR REA 27-12322	1.0	0.7								
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>COMPANION OR CONCURRENT: NONE</p> <p>DETAIL: INSTALLS IMPROVED DISKETTE MAGAZINE ATTACHMENT CARD. CORRECTS DISKETTE FORMATTING INCOMPATABILITY BETWEEN 3741 AND 4966.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">NEW P/N</td> <td style="text-align: center;">OLD P/N</td> </tr> <tr> <td style="text-align: center;">6841959</td> <td style="text-align: center;">6839345</td> </tr> <tr> <td></td> <td style="text-align: center;">6839724</td> </tr> <tr> <td></td> <td style="text-align: center;">6840513</td> </tr> <tr> <td></td> <td style="text-align: center;">6840515</td> </tr> </table> <p style="text-align: right;">432-12-19-80</p>													NEW P/N	OLD P/N	6841959	6839345		6839724		6840513		6840515
NEW P/N	OLD P/N																					
6841959	6839345																					
	6839724																					
	6840513																					
	6840515																					
93	27	E	33		86	ALL	375823	6843335	6826371		Ship Grp.	All 4952's 4953's, 4955's and 4959's with FTR B/M 6826371 and W/O EC 375823	0.3	0.3								
<p>MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date</p> <p>DETAIL: PURPOSE: TO UPDATE ALL INSTALLED SYSTEMS TO THE LEVEL REQUIRED TO SUPPORT B/M 8327254, 5250 INFORMATION DISPLAY ATTACHED.</p> <p>DESCRIPTION: THIS B/M INSTALLS A CONTROLL LOADER DISKETTE AND UPDATES THE MACHINE HISTORY TO REFLECT EC 375823 AS BEING INSTALLED.</p> <p style="text-align: right;">432-12-19-80</p>																						
94	27	A	33		028	ALL	375809	6844617	4412522		4978 ATTACH IMPROVED FEAT. CARD	ALL 4952's 4953's, 4955's 4959's WITH B/M 4412522 AND W/O EC 375809	1.0	0.7								
<p>MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date</p> <p>DETAIL: PURPOSE AND DESCRIPTION: TO INSTALL AN IMPROVED 4978 FEATURE CARD P/N 6843002. THIS CORRECTS A 4978 TO SERIES/1 DATA TRANSMISSION PROBLEM THAT OCCURS WHEN THE LAST POSITION ON A LINE IS PROTECTED AND YOU ARE TRANSMITTING THE LAST PART OF THE LINE TO THE SERIES/1. THE LAST BYTE BEFORE THE PROTECTED POSITION DOES NOT GET SENT TO AN EVEN ADDRESS IN THE SERIES/1.</p> <p style="text-align: right;">432-12-19-80</p>																						
95	27	E	33				876814						0.0	0.0								
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL: This EC is for sequence purposes only.</p> <p style="text-align: right;">432-12-19-80</p>																						
96	27		33		None		876817				F.I.B. for RPQ D02198		0.0	0.0								
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL: This EC is for sequence purposes only.</p> <p style="text-align: right;">436-02-20-81</p>																						

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

27	E	33		56		876916	6845413	1634795		SIO ATTACHMENT	ALL W/O EC 876916	.7	.5
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>CONCURRENT WITH FEATURE: 1637574 FB/M: 6845414 1637575 6845415 1637576 6845416 DETAIL: 1637577 6845417 1637578 6845418 1637579 6845419 1637580 6845420 1637581 6845421</p> <p>UPDATE THE MAINTENANCE PACKAGE WITH LIMITED VOCABULARY AND CONVERT PROGRAM LISTINGS TO MICROFICHE. 436.02.20.81</p>													

27	A	33		067	ALL	877041	6846605	1634793		4979 Display		0.2	0.0
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>CONCURRENT: FB/M 6846604 must be installed on your 4952, 4953, or 4955.</p> <p>DETAIL: Updates maintenance package. 436 02 20 81</p>													

27	E	33				375474	6844655					0.0	0.0
<p>MSIR CODE _____ Parts Source and Anticipated Availability Date</p> <p>COMPANION OR CONCURRENT: NONE</p> <p>DETAIL: THIS ECA IS RELEASED FOR SEQUENCE PURPOSES ONLY. THE 4969 ATTACHMENT CARD WILL BE RELEASED ON EC 877048. 436 02 20 81</p>													

27	E	33		072		876876	6844555	6825474 6825469		S/1 Attach Master S/1 Attach Slave	ALL 4959 W/ F/BM 6825474 OR F/BM 6825469 AND W/O EC 876876	.5	.5
<p>MSIR CODE <u>D</u> _____ Parts Source and Anticipated Availability Date</p> <p>DETAIL:</p> <p>PURPOSE: PROVIDE IPL CAPABILITY FOR S/1 TO S/1 ATTACH FEATURE</p> <p>DESCRIPTION: ADD PATCH DISKETTE TO MACHINE WITH RPQ D02241</p> <p>PREREQUISITES: EC 375603 CHECKPOINT: P/N 6841583 (GP1B)</p> <p>436 02 20 81</p>													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
101													
27	A	33		NONE		375700	6842495	6837366		8-LINE COMM CONTROL (FEATURE PROGRAMMABLE MULTILINE COMM. CONTROL)	ALL WITH B/M 6837366 W/O EC 375700	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: CORRECTS THE FOLLOWING PROBLEMS:</p> <ol style="list-style-type: none"> 1. CHAINING OF RECEIVE COMMANDS WHEN LINE SPEED IS 4800 BPS OR GREATER CAUSING LOST DATA OR INCORRECT DATA. 2. CHAINING FROM A DCB RESET TO ANY COMMAND CAUSES DCB SPEC. CHECK. 3. CORRECTS "BREAK" PROBLEM. <p>ADDS INCREASED FUNCTION TO SUPPORT 3101 AND ALC PROTOCOLS.</p>													
						NEW P/N	OLD P/N						
						6842494	6840558	436 02-20-81					
102													
27	E	33				876920						0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: NONE													
<p>DETAIL: THIS ECA IS RELEASED FOR SEQUENCE PURPOSES ONLY. THE DIAGNOSTICS WILL BE RELEASED BY EC 864399.</p>													
						436 02-20-81							
103													
27	E	33		067		877036	6846261	4412759		4963 Attachment	All with B/M 4412759 w/o EC877036	1.0	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: This EC updates the 4963 diagnostics and releases program 7AF5 which is a 4963 Initializer.</p>													
						436 02-20-81							
104													
27	E	33		56		375692	6845162	4413769		Two Channel Switch	All 4959's with FBM 4413769 w/o EC375692	1.0	.6
MSIR CODE <u>D</u>						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: To install improved two channel switch card with upgraded repower drivers.</p> <p>Description: <u>New Card</u> 6842480 <u>Old Cards</u> 6826201 6839262</p> <p>Prerequisites: ECA 056, EC375147 Checkpoint - diskette P/N 1635001</p>													
						436 02-20-81							

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

105

27	A	33		067		876895	6846997	1637583	or	BSCA Med SPD or Multi-line	All w/o EC 876895	0.2	0.2
							6846998	1637585	or	France only, BSCA HI SPD or SDLC		0.2	0.2
							6846999	1637586		ACCA Multi-line		0.2	0.2
							6847000	1637588	or	BSCA Multi-line or RPQ D02198		0.2	0.2
							6847001	6826371		5250 Attachment		0.2	0.2
							6847002	6844227		Multi-line ASC II		0.2	0.2

MSIR CODE _____

Parts Source and Anticipated Availability Date

CONCURRENT: FB/M 6846996 must be installed with all 4952, 4953, and 4955's.

DETAIL: PURPOSE: Pickup high speed SDLC, pick up REA's 27-12480 and 27-20723, correct single-line BSC half rate.

DESCRIPTION: Correct multi-line controller for device address entry on manual MAPS.

436 02-20-81

106

27	A	33		007		876993	6846063	1637583		BSCA 1 Line Adap Med SPD	All 4959's with FB/M 1637583 w/o EC876993	1.0	.7
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MSIR CODE D

Parts Source and Anticipated Availability Date

DETAIL: Purpose: 1. To support RPS when using delayed processing.
2. To support certain modems when using "Enable with Timing" command.

Prerequisite: EC578625

436 02 20-81

107

27	A	33		none		375662	6846908	4412759		4963 Attachment	All with B/M 4412759 w/o EC375662	0.5	0.0
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MSIR CODE _____

Parts Source and Anticipated Availability Date

DETAIL: Updates the MLD Maintenance Documentation for the 4963.

436 02-20 81

108

27	E	33		023		864534	6846751	6841121		DATA ENTRY LOOP D02312	ALL WITH B/M 6841121 W/O EC 864534	1.0	1.0
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MSIR CODE _____

Parts Source and Anticipated Availability Date

COMPANION OR CONCURRENT: NONE

DETAIL: UPDATE CONTROL STORE DISKETTE.

436 02-20-81

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
109													
27	E	33		none		877048	4468388	6827023		4969 Attachment	All w/o EC375474 and w/o EC877048	1.0	.7
							6846482	6827023		4969 Attachment	All with EC375474 and w/o EC877048	1.0	.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: To release a new attachment card which eliminates the need for patch diskette P/N 6844675. Old Attachment card P/N 6844213, 6844615. New attachment card P/N 6845050.</p> <p>To change card P/N 6844616 to P/N 6845050 by replacing ROS modules 'A' and 'B', which eliminates the need for patch diskette P/N 6844675.</p>													
436 02-20-81													
110													
27	A	33		053	ALL	867784	4498719	4413769		T.C.S.	All 4959's w/o 867784	0.5	0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date Boca 9/80							
CONCURRENT: This FB/M to be installed on all 4952 4953, 4955 processors if feature is installed.													
<p>DETAIL: Update maintenance documentation.</p>													
436 02 20 81													
111													
27	E	33		None		375704	6844550	6841121		Data Entry Loop - Ship	All with FBM 6841121 w/o EC375704	1.0	1.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: Update diagnostic documentation, diskette P/N 6839513, control diskette P/N 6841625. Pick up REA 27-12390 and REA 27-12400 on diskette P/N 6839513. Pick up REA 27-12379 and REA 27-12446 on diskette P/N 6841625. Correct Misc. problems with MAPS 81D0 and 81DC.</p>													
436 02 20 81													
112													
27	E	33		098		864314		6844236 6839335		8 Line Ship Grp D02350 EIA Full Duplex Cable	All w/o EC 375201	.5	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: Correct MAPs 81F5 and 81F2 by calling out the proper repair action. Corrects a typo on MAP 81F6. This EC is for RPQ D02350.</p> <p>This EC is released for records purpose only and will be picked up on EC 869549.</p>													
449/08-21-81													
113													
27	E	33		None		864399	4468379	6827023		4969 ATTACHMENT	ALL W/O EC 864399	.5	.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL:</p> <p>TO UPDATE THE 4969 DIAGNOSTICS, MAPS AND MLDs TO IMPROVE THE MAINTFNANCE PACKAGE.</p>													
449/08-21-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
114													
27	A	33		98		864770	6847006	1637572		Serial Print Atch	All with B/M 1637572 and without EC 864770	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: CHECKPOINT: Previous level of MAP 6473 for EC 877041.</p> <p>PURPOSE: Update MAP 6473 to add support for new ribbon cartridge feature.</p>													
449/08-21-81													
115													
27	E	33		110		877049	4469140	6827113		AUTO LOADER DISKETTE	ALL WITH FB/M 6827113 AND W/O EC 877049	1.0	0.7
MSIR CODE _____						THIS EC IS FOR SEQUENCE PURPOSES ONLY AND WILL BE PICKED UP ON EC 864660.							
						Parts Source and Anticipated Availability Date							
<p>DETAIL: PURPOSE: 4966 ATTACHMENT CARD UPDATE P/N 6846976</p>													
449/08-21-81													
116													
27	A	33		98		864724	6847004	4412522		4978 Attachment	All w/o EC864724	0.5	0.5
MSIR CODE _____						CONCURRENT: THE FOLLOWING FBM MUST BE INSTALLED ON YOUR PROCESSOR: FB6847003							
						Parts Source and Anticipated Availability Date							
<p>DETAIL: PURPOSE: CORRECT MIM REFERENCE ON 4978 MAPS</p>													
449/08-21-81													
117													
27		33				869448					All 4959 and w/o 869448.		
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: This EC is for record purposes only and will be picked up on EC 869314.</p> <p>Diagnostic update to provide testing for odd byte count and to correct misc. diagnostic errors.</p>													
449/08-21-81													
118													
27	F	33		111		869417	4468626	6841121		Data entry loop ship grp	All with B/M 6841121 and without EC 869417.	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: To update maps, logics and add parts catalog to ship group for RPQ's D02312 and D02314.</p>													
449/08-21-81													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
119													
27	A	33		None		375172	6838624			Check and rewire power cord	ALL W/O EC 375172	2.0	2.0
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: PURPOSE: To insure line and neutral, as well as, color coding continuity is maintained to prevent inadvertent fusing of the neutral line. World Trade only.													
449/08-21-81													
120													
27	E	33		105 109 003	4969	869314	6847179	6827023		4969 Attachment	All 4959 w/o EC 869314 and with feature B/M 6827023.	0.5	0.5
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: Provides odd length write capability and diagnostic capability to support the odd length.													
449/08-21-81													
121													
27	E	33		098 059		869519	6031228	8327308		Sys/370 Channel Attch	All with B/M 8327308 and w/o EC 869519	1.2	1.0
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: Checkpoint: Diskette P/N 1635278 EC 864724 Diskette P/N 1635001 EC 876784 4953 Processor at EC 375597 (check EC history) Purpose: To install new S/1 - S/370 attachment card, P/N 4469031, to eliminate bus in parity errors after control unit busy.													
449/08-21-81													
122													
27	A	33		098		869549	6031244	6844236		8 Line Ship Group RPQ D02350	ALL W/O EC 869549	0.5	0.2
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: Prerequisites: EC 877041 checkpoint diskette p/n 1635278. Purpose: Correct problems with Ras package. This FB/M is a composite of EC 869549 and 864314.													
449/08-21-81													
123													
27	A	33		105		987700	6031143	6826371		5250 ATTACH	ALL W/O EC987700	0.5	0.0
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: CONCURRENT: FB/M 6031143 FEATURE - 5250 ATTACH FTR B/M 6826371 PURPOSE: SUPPORT 5225 PRINTER BY UPDATING DISKETTE P/N 1635002 AND INSTALLING MAINTENANCE DOCUMENTATION.													
449/08-21-81													
124													
27	E	33		123		869719	6846613	6826271		5250 ATTACH	ALL W/O EC 869719	0.5	0.5
MSIR CODE _____				Parts Source and Anticipated Availability Date									
DETAIL: PURPOSE: PROVIDE CUSTOMER SUPPORT OF THE 5225 PRINTER TO CORRECT KATAKANA OPERATION. PROVIDE THE FUNCTION OF RETURNING THE CURSOR ADDRESS IN A PREVIOUSLY UNUSED FIELD OF SIE.													
449/08-21-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 44

4959

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
125													
27	A	33				987681					Sequence purpose only. See EC 864647 ECA 142	0.0	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458 12 23 81	
126													
27	E	33		None		869618	6081727	6827023		4969 Mag Tape Attachment	All 4969 tape att. feature B/M 6827023 and w/o EC 869618	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458 12 23 81	
UPDATE THE MAINTENANCE DOCUMENTATION AND LOGICS.													
127													
27	E	33		None		987967	6081891	1637586		ASYNCH Comm. 8-line control	All with FB/M 1637586 and EC 375666 and without EC 987967	0.2	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458 12 23 81	
Purpose: Provide field information bulletin (FIB) providing temporary corrections for known problems in the ASYNCH 8-line control feature.													
128													
27	A	33		None		864591	6023546	6837367		Prog. 4-line comm.	All with FB/M 6837367 and without EC 864591	1.0	0.7
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458 12 23 81	
Purpose: To improve current loop receiver electrical isolation. This update has no effect on receivers used in EIA configuration. (Card P/N 6846874).													
129													
27	A	33		None		864647	4498924	8327706		GPIB adaptor	All w/o EC 864647	0.5	0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL:												458 12 23 81	
B/M 4498924 replaces GPIB adaptor card (P/N 6841583) with new card (P/N 6030909). Fixes problems with read/write commands. B/M 4498925 add patch diskette to machines with RPQ D02241 or RPQ D02242 and replace attachment card P/N 6841583. B/M 6195737 provide IPL capability for 4969 patch diskette from 4952C or 4965. B/M 6195738 provide IPL capability for data entry loop patch diskette. B/M 6195739 provide IPL capability for master patch diskette from 4952C and 4965.													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time														
								Feature B/M #	Seq #	Description of Feature		Man	Sys													
130																										
27	A	33		110		864660	6195777	6827113		Autoloader diskette	All w/o EC 864660 with feature B/M 6827713	1.0	0.7													
MSIR CODE _____						Parts Source and Anticipated Availability Date																				
<p>DETAIL: Installs new 4966 attachment card. Corrects machine checks caused by a timing problem in the attachment. This EC picks up EC 375656 and EC 877049.</p> <table border="0"> <tr> <td>Old P/N</td> <td>New P/N</td> </tr> <tr> <td>6839345</td> <td>6846980</td> </tr> <tr> <td>6839724</td> <td></td> </tr> <tr> <td>6840513</td> <td></td> </tr> <tr> <td>6840515</td> <td></td> </tr> <tr> <td>6841959</td> <td></td> </tr> <tr> <td>6846976</td> <td></td> </tr> </table>													Old P/N	New P/N	6839345	6846980	6839724		6840513		6840515		6841959		6846976	
Old P/N	New P/N																									
6839345	6846980																									
6839724																										
6840513																										
6840515																										
6841959																										
6846976																										
												458 12-23-81														
131																										
27	E	33		None		987965	6081865	6837366		Prog. 8-line comm.	All with FB/M 6837366 and without EC 987965	0.2	0.0													
MSIR CODE _____						Parts Source and Anticipated Availability Date																				
<p>DETAIL: Purpose: Paper change only. Field information bulletin (FIB), logic pages.</p>																										
												458 12-23-81														
132																										
27	A	33				869713	6060728	6837366		Prog. 8 line comm.	All with FB/M 6837366 and without EC 869713	1.0	0.7													
MSIR CODE _____						Parts Source and Anticipated Availability Date																				
<p>DETAIL: Purpose: To install card P/N 4498902. This EC corrects a receive mode problem, DCB reject of interrupt condition, and loss of controller end.</p>																										
												458 12-23-81														

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

ECA 135 EC 994400 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: For sequence purpose only.

DETAIL: See EC 994400 for processor.

ECA 136 EC 323396 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update 4963 maintenance documentation.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4412759	4963 Attachment	6042267	0.5	0.0				

COMPANION: None

CONCURRENT: None

DETAIL: Update 4963 maps and logic pages.

ECA 137 EC 994418 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update RS422 (RPQ D02350) attachment maintenance package.

PREREQUISITES: EC 869549

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844236	8 LN ship group RPQ D02350	6069304	0.6	0.5	6069304	122	869549	Diskette P/N 6842559

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation.

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ECA 141 EC 466924 6-16-82
 As Required _____ SERVICE CODE 33 _____
 Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update maintenance package to unbundle 4987 data set cables from device attachment feature cards.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4411549	PCM Controller	6069694	0.5	0.0	6069694		375469	MAP E000 P/N 4414450

COMPANION: None

CONCURRENT: 4987 EC 466924 ECA006

DETAIL: Add new feature codes for 4987 data set cables. Add check for cables and test only supported part numbers.

ECA 142 EC 987768 6-16-82
 As Required _____ SERVICE CODE 33 _____
 Order From _____ Boca Raton _____

AVAILABLE _____ 4/31/82

PURPOSE: To correct channel hang on host processor.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	B/M8327208	System 370/channel attach.	6069241	1.0	1.0	6069241	116 110	864724 876784 375597	Diskette P/N 1635278 Diskette P/N 1635001 EC history

COMPANION: None

CONCURRENT: None

DETAIL: Series/1 370/channel attach involved in short control unit busy sequence will hang host processor channel. This failure will occur when multiple control units are installed on a channel.

Previous P/N	New P/N
6842481	6069404
6844238	

ECA 143 EC 323285 6-16-82

Mandatory SERVICE CODE 33

Auto Shipped From Boca Raton

AVAILABLE

PURPOSE: Update Feature 1310 (MFA) maintenance package and diskettes.

PREREQUISITES: EC 988013 (factory only)

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844066	Feature 1310, MFA	6061145	1.0	.8	6061145	145	466795	Diskette P/N 1635001

COMPANION: None

CONCURRENT: None

- DETAIL:
1. This EC provides new MFA initial diskette and MFA diag. diskette P/N 6031185 and P/N 6031186.
 2. This EC provides new MFA MAPs.

ECA 144 EC 323259 6-16-82

As Required SERVICE CODE 33

Order From Boca Raton

AVAILABLE

PURPOSE: Update RPQ D02312, DCI, Loop Driver Card.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6841121	DCI, RPQ D02312/ D02313/D02314	6060850	1.0	1.0				

COMPANION: None

CONCURRENT: None

- DETAIL:
- This EC replaces Loop Driver Card P/N 6844610 with new P/N 6060849. This card fixes problems:
- 1) On loops which have a large amount of interactivity in process and also have loop resync's occurring, the possibility exists for the loop terminals being dropped into an off line mode.
 - 2) The yellow light on the loop terminals can continue to show a transaction in progress if the operator terminates the transaction while a message is still present in the output buffer.

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ECA 145 EC 466795 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____ 3/15/82 _____

PURPOSE: To update CPU maintenance package

PREREQUISITES:

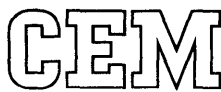
TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All	Basic ship group	4772216	1.0	0.5	4772216 If applicable	135	994400	Diskette P/N 1635001 at 994400
								864724	Diskette P/N 1635278 at 864724
								877036	Diskette P/N 6826999 at 877036
								869592	Diskette P/N 6847217 at 869592
								869448	Diskette P/N 6838871 at 869448

COMPANION:

CONCURRENT:

DETAIL:

Improve diagnostic package for timers, integrated DI/DO, 4962, 4963, 4964, 4966, 4969, 4973, 4974, 4978, 4979, LCC, SDLC, BSC, and TTY. Adds console support for MFA/7485.



Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
10	E	33			All	829871	5572850				All	.5	.5
						MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date Roch 3/77					
DETAIL: Safety To eliminate a potential safety hazard when the 4962 is installed in an IBM rack. The line cord may be cut when the 4962 is returned to its normal operating position from its service position. This EC will attach the cord to the 4962 with cable clamp part number 2596291 which will eliminate any hazard.													
342/03-25-77													
2													
10	E	33			All	829868	5572859				All prior to S/N 10189.	3.5	.2
						MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date Roch 11/77					
								S/N 10189 through 10400.					
DETAIL: B/M 5572859 converts machines from VTL to fast Dutchess logic. B/M 5572858 converts slow Dutchess to fast Dutchess to prevent possible timing errors.													
357/11-04-77													
3													
10	E	33			All	834210	624304	4201616		208/230 V 60 Hz	All Machines Installed Outside the United States and Canada without EC 834210 installed.	1.3	.2
						MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date Roch 3/78					
								4201618 200/235 V 50Hz					
DETAIL: This EC eliminates a possible safety problem with the A/C motor plug on the 43FD drive.													
367/04-07-78													
4													
10	E	33			002 & 02F	834215	624354				S/N 10162, 10266, 10361, 10362 and 10432	1.0	.1
						MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date VIM 3/78					
DETAIL: Only WTC affected: This B/M replaces the power supply transformer with one that meets British Post Office requirements. It is required only on machines installed in the United Kingdom.													
367/04-07-78													
5													
27	E	33		none	All	834250	624800	4201605		Shipping Group	All 4962's with FB/M 4201605 and w/o EC834250	0.5	0.5
						MSIR CODE _____		Parts Source and Anticipated Availability Date					
DETAIL: Purpose: To provide a positive slide stop that prevents the 4962 unit from disengaging from the slide when in the extended service position.													
436 02-20-81													

CEM Engineering Change Announcements Group 869

4963

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		None		876744	6843326	4411397		COMMON ADAPTER	ALL WITH B/M 44113974 REA 27-12299 and EC 375119 and W/O REA 27-12387 and W/O REA 12405 and W/O EC 876744	0.8	0.4
MSIR CODE _____						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: NONE													
DETAIL: UPDATE A2C2 CARD P/N 5643087 TO P/N 5643153													
NOTE: THERE IS AN ERROR IN THE INSTRUCTIONS. STEP 10.11 SAYS TO REPLUG 5643087. THIS IS AN ERROR. YOU MUST USE P/N 5643153. THIS EC CORRECTS DATA OVERLAY PROBLEMS.													
431/12-5-80													
2													
27	E	33		None	All	864614	6847053	4411393		ELEC/MECH FINAL ASM	ALL W/O EC 864614 and W/O REA 27-12637	2.5	1.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: INSTALLS CAPACITORS TO MINIMIZE ELECTRICAL NOISE INDUCED WHEN AC POWER IS SWITCHED ON OR OFF. THIS EC CORRECTS CRC ERRORS CAUSED BY POWERING OFF THE 4963 BEFORE POWERING THE PROCESSOR.													
NOTE: MAN HRS. IS 2.5 FOR FIRST 4963 ON SYSTEM AND 1.5 FOR EACH ADDITIONAL 4963. SYS HRS IS 1.5 FOR EACH 4963 ON SYSTEM.													
431/12-5-80													
3													
27	E	33				869502	6841319	4411393 4411394		ELEC/MECH FINAL ASM SHIP GROUP	ALL W/O EC 869502	0.5 0.5	0.5 0.5
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: SAFETY: THIS EC ELIMINATES A POSSIBLE SAFETY PROBLEM. THE 4963 RACK MOUNTING SLIDES PRIOR TO EC 869502 CAN MALFUNCTION AND CAUSE THE 4963 TO FALL. THIS CAN HAPPEN WHEN THE SLIDES THAT ARE ATTACHED TO THE 4963 ARE BEING EXTENDED TO THE SERVICE POSITION.													
436/02-20-81													
4													
27	E	33		None		988028	6042110	4411397		Common adapter	All 4963 with FB/M 441397 w/o EC 998028.	0.8	0.4
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: Updates A2C2 card to P/N 5643132. Corrects data problems due to soft CRC errors. This is a mandatory EC and will be automatically shipped to all machines with B/M 4411397.													
458/12-23-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

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ECA 005 EC 466825 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: To eliminate auto IPL problems/failures.

PREREQUISITES: EC 323396 on attachment.

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4963 Model A	4411397	Common Adapter	6042250	1.3	1.3				Logic page SF 509 at EC 323396

COMPANION: None

CONCURRENT: None

- DETAIL:
1. Installs card P/N 6042252 on A2 board.
 2. Deletes two (2) pins on A2 board. (Requires delete tool).
 3. Adds one (1) wire to A2 board. (Requires wrap tool).

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
10	E	33			All	831635	5572964	5562901		208/230 Volt - 60 Hz	Machines Installed Outside the United States and Canada without EC 831635 installed.	1.3	.2
								5562303		220/235 Volt - 50 Hz			
								5562305		208/230 Volt - 60 Hz			
								5562307		220/235 Volt - 50 Hz			
								5562368		208/230 Volt - 60 Hz			
								5562370		220/235 Volt - 50 Hz			
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
						Roch 3/78							
DETAIL: This EC eliminates a possible safety problem with the A/C motor plug on the 43FD drive. 367/04-07-78													
2													
10	E	33			All	831641	624358				S/N 10188 and 10293	1.0	1
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
						VIM 3/78							
DETAIL: WTC only affected; This B/M replaces the Power Supply with one that meets British Post Office Requirements. It is required only on machines installed in United Kingdom 367/04-07-78													

CEM

Engineering Change Announcements
Group 869
4965

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time															
								Feature B/M #	Seq #	Description of Feature		Man	Sys														
1																											
27	E	33		None		987967	6081891	1637586		ASYNCH Comm. 8-line control	All with FB/M 1637586 and EC 375666 and without EC 987967	0.2	0.0														
						MSIR CODE _____		Parts Source and Anticipated Availability Date																			
DETAIL: Purpose: Provide field information bulletin (FIB) providing temporary corrections for known problems in the ASYNCH 8-line control feature.												458/12-23-81															
2																											
27	A	33		None		864647	4498924	8327706		GPIB adaptor	All w/o EC 864647	0.5	0.5														
						MSIR CODE _____		Parts Source and Anticipated Availability Date																			
DETAIL: B/M 4498924 replaces GPIB adaptor card (P/N 6841583) with new card (P/N 6030909). Fixes problems with read/write commands. B/M 4498925 add patch diskette to machines with RPQ D02241 or RPQ D02242 and replace attachment card P/N 6841583. B/M 6195737 provide IPL capability for 4969 patch diskette from 4952C or 4965 B/M 6195738 provide IPL capability for data entry loop patch diskette B/M 6195739 provide IPL capability for master patch diskette from 4952C and 4965												458/12-23-81															
3																											
27	A	33		None (FCS level)		864660	6195777	6827113		Autoloader diskette	All w/o EC 864660 with feature B/M 6827113.	1.0	0.7														
						MSIR CODE _____		Parts Source and Anticipated Availability Date																			
DETAIL: Installs new 4966 attachment card. Corrects machine checks caused by a timing problem in the attachment. This EC picks up EC 375656 and EC 877049.												458/12-23-81															
<table style="margin-left: 20px; border: none;"> <tr> <td style="padding-right: 10px;">Old P/N</td> <td>New P/N</td> </tr> <tr> <td>6839345</td> <td>6846980</td> </tr> <tr> <td>6839724</td> <td></td> </tr> <tr> <td>6840513</td> <td></td> </tr> <tr> <td>6840515</td> <td></td> </tr> <tr> <td>6841959</td> <td></td> </tr> <tr> <td>6846976</td> <td></td> </tr> </table>												Old P/N	New P/N	6839345	6846980	6839724		6840513		6840515		6841959		6846976		458/12-23-81	
Old P/N	New P/N																										
6839345	6846980																										
6839724																											
6840513																											
6840515																											
6841959																											
6846976																											
4																											
27	E	33		None		987965	6081865	6837366		Prog. 8-line comm.	All with FB/M 6837366 and without EC 987965	0.2	0.0														
						MSIR CODE _____		Parts Source and Anticipated Availability Date																			
DETAIL: Purpose: Paper change only. Field information bulletin (FIB), logic pages.												458/12-23-81															
5																											
27	A	33				869713	6060728	6837366		Prog. 8 line comm.	All with FB/M 6837366 and without EC 869713	1.0	0.7														
						MSIR CODE _____		Parts Source and Anticipated Availability Date																			
DETAIL: Purpose: To install card P/N 4498902. This EC corrects a receive mode problem, DCB reject of interrupt condition, and loss of controller end.												458/12-23-81															

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

ECA 008 EC 994400 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: For sequence purpose only.

DETAIL: See EC 994400 for processor.

ECA 009 EC 323396 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update 4963 maintenance documentation.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	4412759	4963 Attachment	6042267	0.5	0.0				

COMPANION: None

CONCURRENT: None

DETAIL: Update 4963 maps and logic pages.

ECA 010 EC 994418 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Update RS422 (RPQ D02350) attachment maintenance package

PREREQUISITES: EC 869549

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6844236	8 LN ship group RPQ D02350	6069304	0.6	0.5	6069304		869549	Diskette P/N 6842559

COMPANION: None

CONCURRENT: None

DETAIL: Update maintenance documentation.

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ECA 011 EC 988042 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Replace diskette P/N1635002 and update maintenance documentation.

PREREQUISITES: EC 987700

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826371	5250 Attach	6060935	.5	.5	6060935-6061023		987700	Diskette P/N 1635002 at EC 987700.
All	6826371	5250 Attach	6060936	.5	.0				
All	1637582	ACCA S/L (F/C 1610)	6061016	.5	.0				
All	1637583	BSCA S/L (F/C 2074)	6061017	.5	.0				
All	1637584	BSCA S/L (F/C 2075)							
All	1637585	SDLC S/L (F/C 2090)	6061018	.5	.0				
All	1637586	ACCA M/L (F/C 2091)	6061019	.5	.0				
All	1637588	BSCA M/L (F/C 2093)	6061020	.5	.0				
All	6844227	PMLC M/L (F/C 2095)	6061021	.5	.0				
All	4468900	Custom Adapter (D02318)	6061022	.5	.0				
All	6846706	BSCA Direct (D02349)	6061023	.5	.0				

COMPANION: None

CONCURRENT:

- DETAIL:
1. Update 5250 diagnostics.
 2. Update 5250 maintenance package to include 5224 printer.
 3. Update F/C 1610/2074/2075/2090/2091/2093/2095 RPQ D02318/D02349 to eliminate processor dependency.

ECA 012 EC 869711

6-16-82

As Required _____

SERVICE CODE 33

Order From _____

Boca Raton _____

AVAILABLE _____

4/25/82

PURPOSE: To install improved asynchronous communication 8-line control feature card.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	1637586	Asynchronous 8-line communication control	6060993	1.0	0.7	6060993		864529	Sys test diskette P/N 1635003

COMPANION: None

CONCURRENT: None

DETAIL: Corrects controller end and lost device reset problem.

Previous P/N	New P/N
6841989	4498900
6840560	
6826147	
4411886	

ECA 013 EC 987768

6-16-82

As Required _____

SERVICE CODE 33

Order From _____

Boca Raton _____

AVAILABLE _____

4/31/82

PURPOSE: To correct channel hang on host processor.

PREREQUISITES:

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	B/M8327208	System 370/channel attach.	6069241	1.0	1.0	6069241		864724	Diskette P/N 1635278
								876784	Diskette P/N 1635001
								375597	EC history

COMPANION: None

CONCURRENT: None

DETAIL: Series/1 370/channel attach involved in short control unit busy sequence will hang host processor channel. This failure will occur when multiple control units are installed on a channel.

Previous P/N	New P/N
6842481	6069404
6844238	

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ECA 014 EC 467032 6-16-82
 Mandatory _____ SERVICE CODE 33 Safety _____
 Auto Shipped From _____ Boca Raton _____
 AVAILABLE _____ 2/82

PURPOSE: To install a plastic protective cap, on the power supply chassis.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4965	All	Basic elec/mech	6060826	1.3	1.0				

COMPANION: None

CONCURRENT: None

DETAIL: To install a plastic protective cap, on the power supply chassis over the left hand side mounting hole. Prevents mounting screw from coming in contact with a printed circuit board conductor.

ECA 015 EC 987928 6-16-82
 Mandatory _____ SERVICE CODE 33 _____
 Auto Shipped From _____ Boca Raton _____
 AVAILABLE _____

PURPOSE: Reverse mounting brackets holding the modem card assembly. Update diagnostic diskette.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	6826405 6847115	RPQ D02049 RPQ D02049 Canada	6060979	1.0	0.7				

COMPANION: None

CONCURRENT: None

DETAIL: Update diagnostic diskette P/N 6847128 is installed. The mounting brackets holding the modem card assembly will be reversed to prevent problems when plugging the card into card file.

CEM Engineering Change Announcements Group 869

4966

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

1													
27	E	33		none		833289	624801	2462109		Ship Group	All with B/M 2462109 w/o EC833289	0.5	0.5

MSIR CODE _____

Parts Source and Anticipated Availability Date

DETAIL: This is a safety EC.

The 4966 rack mounting slides prior to EC833289 can malfunction and cause the 4966 to fall when pulled out to the service position.

432/12-19-80

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*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

1

4966 Picker Service Check

4966

This 4966 diskette magazine unit service aid specifically addresses three areas of concern:

- o The correct alignment of the picker finger assembly.
 - o The correct tension on the picker spring arm.
 - o The maximum amount of GRAM tension allowed to move a diskette from an I/O slot.
1. Remove all power from the 4966 diskette magazine unit.
 2. Place the 4966 drive in the service position.
 3. Do the bed to drive Bezel service check. If it is not okay, do the adjustment and continue with Step 4.
 4. Do the Picker extend service check.
 5. Is the Picker extend service check okay?
Y N
 Do the Picker extend adjustment
 Go to Step 6.
Go to Step 6.
 6. Check Picker finger adjustment. Is adjustment okay?
Y N
 Do the Picker finger adjustment.
 Go to Step 7.
Go to Step 7.
 7. Does the machine still fail to pick?
Y N
 Go to Step 20.
Go to Step 8.
 8. Manually move the carriage to the vicinity of Slot 2 of Magazine 2.
 9. Manually rotate the Picker Cam in a counter-clockwise direction (from front of machine) until the Picker finger assembly is completely extended.
 10. Place a .040 inch feeler gauge between the Picker spring arm and the Picker stationary arm. (See Figure 1). If the feeler gauge will not stay in position, replace the Picker spring arm.
 11. Take the gram gauge (P/N 450459) with the x10 blade. Place the blade tip on the tip of the Picker spring arm and check to see how much gram tension it takes before the feeler gauge moves or falls. (See Figure 1).

Continued

4966 Picker Service Check (cont'd)

4966

12. Is the tension between 100 and 400 grams?
Y N
 Picker spring arm is defective.
 Go to Step 13.
Go to Step 14.
13. Replace the Picker spring arm.
14. Does the machine still fail to pick?
Y N
 Go to Step 20.
Go to Step 15.
15. Check that the I/O slot wire guides are not bent. If they are okay, suspect damaged diskettes. (i.e., warped, pillowed, folded, etc.).
16. Take any diskette that is failing and place it in I/O Slot 1, 2, or 3, whichever slot seems to fail the most. Use your gram gauge to measure the amount of grams it takes to move the diskette out of the I/O slot. Do this with all failing diskettes. (See Figure 2).
17. Is the force greater than 60 grams?
Y N
 Go to Step 19.
Go to Step 18.
18. Something is wrong with the diskette. It is probably warped, pillowed, folded, etc.
19. Does the machine still fail to pick?
Y N
 Go to Step 22.
Go to Step 20.
20. This service check is complete. If you are still experiencing Picker failures, go to Step 21. If you are not experiencing Picker failures, go to Step 22.
21. Return power to the 4966 drive and run the appropriate diagnostics.
22. Return the 4966 drive to its normal operating position.

Continued

CEM Engineering Change Announcements Group 869 4969

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		None	7X	864392	6846286	Basic			See Note	1.0	.2
						MSIR CODE _____			Parts Source and Anticipated Availability Date				
						COMPANION OR CONCURRENT: NONE							
DETAIL: INSTALL IMPROVED VACUUM ASSEMBLY TO CORRECT A BINDING SOLENOID PROBLEM ON EARLY 4969's.													
NOTE: 10017, 10040, 10041, 10042, 10043, 10044, 10045, 10047, 10048, 10049, 10055, 10056, 10058, 10059, 10060, 10061, 10062, 10064, 10067, 10068, 10069, 10072, 10073, 10074, 10076, 10077, 10080, 10083, 10084, 10085, 10088, 10089, 10090, 10095, 10098, 10099, 10106, 10107, 10119, 53-00001, 53-00007, 53-00009, 53-00011, 53-00016, 53-00018.													
											These are the serial numbers of machines that will receive this change.		
												429/10-31-80	
2													
27		33		None		375545	6838877	6838874 6838875 6838887 6838878 6838880 6838882 6838883 6838885 6838886 6838888 6838931 6838914 6838916 6838917 6838919		CONTROLLER FEATURE	ALL WITH CONTROL- LER FEATURE		
						MSIR CODE _____			Parts Source and Anticipated Availability Date				
DETAIL:													
THIS EC WILL BE PICKED UP BY EC 869312													
												432/12-19-80	
3													
27		33		NONE		869312	4469073	6838874 6838875 6838877 6838878 6838880 6838882 6838883 6838885 6838886 6838888 6838913 6838914 6838916 6838917 6838919		45IPS W NRZI CTRLR 45IPS W/Dual Density 45IPS W/PE CTRLR 45IPS W/Dual Density 45IPS W/Dual Density 75IPS W/NRZI CTRLR 75IPS W/Dual Density 75IPS W/PE CTRLR 75IPS W/Dual Density 75IPS W/Dual Density 50HZ 75IPS W/NRZI 50HZ 75IPS W/Dual 50HZ 75IPS W/PE CNTRL 50HZ PE 75IPS W/Dual 75IPS W/Dual CNTR - 50	ALL 4969 w/o 869312	1.0	1.0
						MSIR CODE _____			Parts Source and Anticipated Availability Date				
						COMPANION OR CONCURRENT: EC 869314 for attachment feature 6827023.							
DETAIL: Replace adapter card with new EC level, P/N 4468367.													
Allows odd record lengths on write operations.													
To use odd writer length, you must have EC 869314 installed on system.													
												449/08-21-81	

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ECA 004 EC 323379 6-16-82
 Mandatory _____ SERVICE CODE 33 Safety _____
 Auto Shipped From _____ Boca Raton _____
 AVAILABLE _____ 02/01/82 _____

PURPOSE: To install safety shield.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4969 MOD 4	All W/O EC 869544	Elect/Mech	6060914	0.7	0.4				

COMPANION: None

CONCURRENT: None

DETAIL: To install safety shield over the AC input and AC related components of the MOD 4 power supply.

CEM Engineering Change Announcements Group 869

4973

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
91	E	33		NONE	ALL	578999	6825800				S/N 00094 Thru 00499 incl.	.1	.0
91	E	33		NONE	1	578999	6825801				S/N 00094	.1	.1
91	E	33		NONE	2	578999	6825802				Thru 00314	.1	.1
91	E	33		NONE	2	578999	6825803				S/N 00103 Thru 00140	.4	.1
91	E	33		NONE	ALL	578999	6825804				S/N 00094 Thru 00224	.2	.1
91	E	33		NONE	ALL	578999	6825805				S/N 00094 Thru 00373	.4	.1
MSIR CODE _____						Parts Source and Anticipated Availability Date							
						TORONTO - JANUARY 1979							
DETAIL:													
B/M 6825800						- UPDATE LOGIC PAGES							
B/M 6825801, 2						- INSTALL RIBBON CASSETTE INTERLOCK BRACKET							
B/M 6825803						- INSTALL ACOUSTIC SEAL AND PAD							
B/M 6825804						- INSTALL 10 AMP IN +5 VOLT SECONDARY LINE							
B/M 6825805						- INSTALL NOISE SUPPRESSION TO FILTER OUT CARRIAGE STEPPER MOTOR NOISE						386/01-26-79	
2													
27	E	33		NONE	ALL	987678	6841290	BASIC		WIRING CORRECTION	ALL 4973's W/O EC 987678	0.8	0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
						Boca Raton 11/80							
DETAIL:													
THIS EC PROVIDES INSTRUCTIONS TO CORRECT A POTENTIAL SAFETY HAZARD ON THE 4973 FI HOLDER.													
THIS EC IS FOR DOMESTIC AND WTC.													
436.02-20-81													

1

PRINT BELT WEAR

IBM 4973

Premature print belt wear (scalloped bottom edge) may be due to the forms touching the print belt guide bearings. This prevents the bearings from rotating at the same speed as the print belt.

The forms can touch if one or more of the following conditions exist:

1. Forms width is greater than the recommended 15" (381 mm).
2. Moving the left tractor stop out of position. The left tractor stop controls the .55" (13.9 mm) dimension from the centre line of the left margin hole and the centre line of print position No. 1.
3. Moving the right tractor stop out of position.

When the belt guide bearings are not free to turn, wear occurs on the bottom edge of the print belt and possibly the guide bearing surface. This will eventually cause wavy printing and/or belt speed checks or sync checks.

If this problem occurs the print belt and the guide bearings must be replaced. To prevent the problem from re-occurring the L.H. tractor stop P/N 1794814 and R.H. tractor stop P/N 1814630 must be properly installed.

Customer should also be advised of forms limitations in the forms design guide GA-24-3488.

368/04-21-78

CEM Engineering Change Announcements Group 869

4974

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	A	33		NONE		386369	6826180	1638938 1638985 4410064 4410071		115V PRINTER ASM 220V PRINTER ASM PRINTER ASM PRINTER ASM	ALL 4974's W/O EC 386369	1.5	1.5
				MSIR CODE <u>C</u>		Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: REPLACE THE REQUIRED PARTS TO INCREASE RIBBON DRIVE LINE LIFE.													
DESCRIPTION: REPLACE RIBBON BOX, RIBBON DRIVE LINES AND RIBBON DRIVE STRING BRACKETS.													
MACHINES AFFECTED CHECKPOINT: W/O EC 386369, UPPER RIGHT DRIVE LINE ANCHOR POINTS TOWARD FRONT. WITH EC 386369, UPPER RIGHT DRIVE LINE ANCHOR POINTS UP. 389/03-09-79													
2													
27	E	33		NONE	NONE	386450	6826181	1638938 1638985		115V PRINTER ASSEMBLY 220V PRINTER ASSEMBLY	4974 W/O EC 386450 OR WITH REA27-11677	1.0	.2
				MSIR CODE <u>D</u>		Parts Source and Anticipated Availability Date							
DETAIL: SAFETY													
PURPOSE: RELOCATE GROUND WIRE CONNECTION TO SATISFY SAFETY REQUIREMENTS.													
CHECKPOINT: IF GREEN/YELLOW GROUND WIRE IS CONNECTED TO OUTSIDE SURFACE OF BLACK BRACKET LOCATED IN LEFT REAR CORNER OF MACHINE, THIS EC MUST BE INSTALLED. IF GREEN/YELLOW GROUND WIRE IS CONNECTED TO BASE PLATE, CHECK MACHINE HISTORY FOR EC 386450. 390/03-23-79													
3													
27	A	33		NONE		386473	6826191	BASIC		4974 PRINTER	ALL 4974'S WITHOUT EC 386473	.5	.5
				MSIR CODE <u>C</u>		Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: INSTALL POWER CORD CABLE CLAMP TO PREVENT THE POWER CORD FROM WORKING LOOSE. 401/08-31-79													
4													
27	A	33		None		987799	1638911	4410064 4410071		Printer asm Printer asm	All w/o EC987799	0.5 0.5	0.3 0.3
				MSIR CODE _____		Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To install a new cut forms guide to enhance feeding of cut forms. 458/12-23-81													

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ECA 005 EC 323160 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Prevent electrostatic buildup on the printhead cable spring band by installing a ground clamp.

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
All	All		6846103	0.5	0.0		None		

COMPANION: None

CONCURRENT: None

DETAIL: Electrostatic buildup and subsequent discharge (ESD) from the printhead cable spring band may cause loss of left margin reference, print emitter checks or wire checks. Ground clamp P/N6846102 will prevent electrostatic buildup on the spring band.

1 4974 RIGHT SIDE PLATEN LATCH MANUFACTURING ERROR

An undetermined number of 4974 printers built during the last half of 1978 have an improper right side platen hold down latch. This latch can interfere with the right front forms feed leg, causing improper seating, resulting in printing on an angle. Machines installed the last half of 1978 or early 1979 should be checked for this condition.

On your next service call, check the latch. If you encounter the improper style, replace it with latch PN 1205314. The proper style latch is pictured in Figure A; the improper style is pictured in Figure B.

Use service code 33 ECA 950 when installing the new latch.

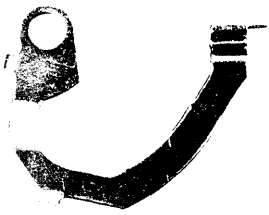


FIGURE A

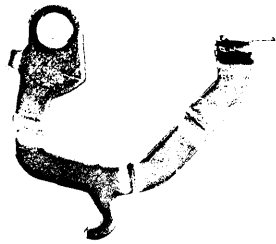


FIGURE B

397/06-29-79

CEM Engineering Change Announcements Group 869

4978

Plant of Origin	Chg Type	Srv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time						
								Feature B/M #	Seq #	Description of Feature		Man	Sys					
1																		
27	E	33		001	RPQ D02056	755384	712287	4411733		KEYBOARD 1 RPQ D02056	4978 WITH KEYBOARD ONE AND WITHOUT E/C 755384	.5	.3					
					RPQ D02057		712288	4411734		KEYBOARD 2 RPQ D02057	4978 WITH KEYBOARD TWO AND WITHOUT E/C 755384	.5	.3					
MSIR CODE <u>D</u> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px;"> THIS ECA IS CANCELLED REFER TO ECA 007 431/12-5-80 </div> Parts Source and Anticipated Availability Date 27 - 5/2/78																		
DETAIL: PURPOSE: FBM 712287 TO INSTALL IMPROVED 4978 "KEYBOARD ONE" DISKETTE P/N 8333615 FBM 712288 TO INSTALL IMPROVED 4978 "KEYBOARD TWO" DISKETTE P/N 8333616 PREREQUISITE/CONCURRENT/COMPANION: NONE CHECKPOINT: KEYBOARD LOAD DISKETTE FOR KEYBOARD 1 = P/N 8333615 INDICATES E/C 755384 INSTALLED. KEYBOARD 2 = P/N 8333616 DISKETTE REPLACEMENT DATA: <table style="margin-left: 20px;"> <tr> <td><u>OLD P/N</u></td> <td><u>NEW P/N</u></td> </tr> <tr> <td>4411792</td> <td>8333615</td> </tr> <tr> <td>4411793</td> <td>8333616</td> </tr> </table>													<u>OLD P/N</u>	<u>NEW P/N</u>	4411792	8333615	4411793	8333616
<u>OLD P/N</u>	<u>NEW P/N</u>																	
4411792	8333615																	
4411793	8333616																	
2																		
27	A	33		NONE		755300	4413934	4412500		ELECT/MECH FINAL BM	4978 DISPLAY STATIONS BELOW S/N 10115	.75	.75					
MSIR CODE <u>C</u> Parts Source and Anticipated Availability Date																		
DETAIL: PURPOSE: TO UPDATE EARLY MACHINES WHICH NEED COVER ADJUSTMENT. CHECKPOINT: APPLIES ONLY TO 4978 BELOW S/N 10115, AS REQUIRED.																		
3																		
27	E	33		NONE		754964	712269	4112500 4412526 4412527 4412528		ELECT/MECH FINAL BM POWER CD 115V 60 HZ POWER CD 220V 60 HZ CABLE 100V 50 HZ WT	ALL 4978 W/O EC 754964 OR REA 27-11792 & W/O EC 755222 OR REA27-11798	.5	0					
MSIR CODE <u>D</u> Parts Source and Anticipated Availability Date																		
DETAIL: PURPOSE: REPLACE KEYBOARD CONNECTOR RETAINER ON THE DISPLAY STATION AND KEYBOARD CABLE. THE NEW RETAINER WILL INSURE THAT THE CABLE DOES NOT BECOME DISENGAGED FROM THE DISPLAY STATION. CHECKPOINT: IF THERE ARE TWO (2) BRASS NUTS HOLDING THE CONNECTOR, EC 754964 OR REA27-11792 IS INSTALLED. IF THE KEYBOARD CABLE CONNECTOR HAS TWO (2) CAPTIVE SCREWS, EC 755222 OR REA27-117198 IS INSTALLED.																		
4																		
27	E	33		NONE		755086	4413933	4412500		ELECT/MECH FINAL BM	4978 DISPLAY STATIONS W/O EC 754947	.75	.75					
MSIR CODE _____ Parts Source and Anticipated Availability Date 7/78																		
DETAIL: PURPOSE: TO ALLOW REPLACEMENT OF THE MONITOR IN 4978 DISPLAY STATIONS. CHECKPOINT: IF YOUR 4978 DOES NOT HAVE E/C 755086 INSTALLED AND DOES HAVE THE CRT FASTENED TO BRACKET P/N 4413532, REFERENCE PARTS CATALOG SECTION OF MIM.																		

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
5													
27	E	33		NONE	ALL	374918	712327	4412500		4978 RPQ D02055	ALL 4978 W/O REA27-11986 OR EC 374918	1.5	1.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: ADD A RESISTOR IN PARALLEL WITH THE REGULATOR TRANSISTOR, CHANGE THE BASE DRIVE RESISTOR OF THE HORIZONTAL DRIVER AND CHANGE THE PLASTIC COVERS ON THE TRANSISTORS.													
PRE REQ: NONE													
CHECKPOINT: TRANSISTORS MOUNTED ON SIDES OF MONITOR ASM WITH BLACK PLASTIC COVERS EQUALS EC INSTALLED. 379/10-06-78													
6													
27	E	33		NONE		755421 374872	6838528 6838528	4412500		4978 DISPLAY STATION CABLE	ALL 4978'S WITHOUT 755421 OR WITHOUT 374872	.75	.75
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: ADD RETAINING SCREWS TO ATTACHMENT CABLE CONNECTOR IN THE 4978.													
PREREQ: NONE													
CHECKPOINT: TWO BRASS FEMALE NUTS HOLDING THE CONNECTOR INSIDE 4978 EQUAL 755421 INSTALLED. ATTACH CABLE CONNECTOR WITH CAPTIVE SCREWS EQUALS 374872 INSTALLED. 401/08-31-79													
7													
27	E	33		NONE	001	375257	6839726	4411733		4978 ICEYBOARD RPQ D02056	ALL 4978'S WITH D02056 WITHOUT 375257	0.5	0.3
							6839727	4411734		4978 ICEYBOARD RPQ D02057	ALL 4978'S WITH D02057 WITHOUT 375257	0.5	0.3
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: REPLACE KEYBOARD LOAD DISKETTE. CORRECTS LOAD FAILURE ON 16K SYSTEMS.													
PREREQ: NONE													
CHECKPOINT: KEYBOARD LOAD DISKETTE PN 6839240, FOR RPQ D02056 OR 6839241, FOR RPQ D02057, EQUALS EC 375257 INSTALLED.													
REPLACEMENT DATE: OLD PN NEW PN													
RPQ D02056 8333615 6839240													
RPQ D02057 4411792													
RPQ D02057 8333616 6839241													
RPQ D02057 4411793													
401/08-31-79													
8													
27	A	33		NONE		375615	6841615	4412533		4978 KEYBOARD RPQ D02056	4978 WITH RPQ D02056	1.0	0.0
MSIR CODE <u> C </u>						Parts Source and Anticipated Availability Date 7/79							
DETAIL:													
PROVIDES REPLACEMENT KEY BUTTONS FOR KEYBOARD D02056 SO THAT KEYBOARD CAN BE USED WITH A FIELD DEVELOPED PROGRAM CALLED "INTELLIGENT DATA ENTRY SYSTEM" (IDES).													
NOTE: DO NOT ATTEMPT TO ORDER THIS ECA FOR 4978 KEYBOARDS OTHER THAN RPQ D02056. 414/03-21-80													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4978

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
9													
27	A	33		None	All	375573	6844912	4413530		DIR AST Relegendable Key Tops	4978's with B/M 4413530 or B/M 683906 W/O REA 27-12495 or EC 375573 A	0.5	0.5
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL: Purpose: To install relegendable keys as requested by customer. Description: Move 10 keys, remove and replace 24 keys. Special Tools: Key button puller P/N 9900373-Provided with this FBM.													
427/10-03-80													
10													
27	A	33		NONE	ALL	876769	6844647	4411733		KYBD 1 SHIP GRP RPQ DO2056	4978's With B/M 4411733, RPQ DO 2056 and W/O EC 876769 4978's with B/M 4411734 RPQ 2057 and W/O EC 876769 4978's with B/M 4411735 RPQ DO 2065 or RPQ DO 2064 & W/O EC 876769	0.5	0.3
							6844648	4411734		KYBD 2 SHIP GRP RPQ DO2057			
							6844648	4411735		KYBD 3 SHIP GRP RPQ DO2065			
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date							
DETAIL: THIS EC INSTALLS AN IMPROVED 4978 KEYBOARD DISKETTE AT EC 876769. IMPROVEMENTS INCORPORATED ARE: ALLOWS LOADING BY 4966, ALLOWS LOADING BY A16K MACHINE, CORRECTS A CHANNEL CONTENTION PROBLEM.													
431/12-5-80													
11													
27	E	33				921539	919415	917890		Keyboard Katakana Ship Grp.	All w/o FBM 917890 and w/o EC 921539.	0.5	0.3
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: TO INSTALL IMPROVED 4978 "KEYBOARD KATAKANA" DISKETTE, P/N 919540. ALLOWS DISKETTE TO BE LOADED WITH 4966. ALLOWS LOADING WITH 16K PROCESSOR AND CORRECTS CHANNEL CONTENTION. ALSO, REFER TO EC 921586.													
449/08-21-81													
12													
27	E	33				921586	919541	917890		Keyboard Katakana Ship Grp.	All with FB/M 917890 and w/o EC 921586	0.5	0.3
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: TO INSTALL IMPROVED 4978 "KEYBOARD KATAKANA" DISKETTE, P/N 919557. ALLOWS DISKETTE TO BE LOADED WITH 4966. ALLOWS LOADING WITH 16K PROCESSOR AND CORRECTS CHANNEL CONTENTION.													
449/08-21-81													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
13													
27	A	33		None		987961	6845189 6845190 6845191 6845192	4411733 4411734 4411735 6839754		Keyboard 1 Ship Group Keyboard 2 Ship Group Keyboard 3 Ship Group Keyboard 4 Ship Group	All W/O EC987961	0.5 0.5 0.5 0.5	0.3 0.3 0.3 0.3
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: TO INSTALL IMPROVED 4978 DISKETTE EC 987961. ALLOWS DISKETTE TO BE LOADED WITH 4952C OR 4965.													
												449/08-21-81	
14													
27	E	33				987951	6845188	6845179		Keyboard RPQ D02375	All with feature 6845179 and w/o EC987951.	0.5	0.0
MSIR CODE _____						Parts Source and Anticipated Availability Date							
DETAIL: PURPOSE: TO PROVIDE THE PROPER KEY BUTTONS USED WITH THE "TE&E" FDP.													
												449/08-21-81	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		NONE	ALL	578935	4413593	1634835		MECH/ELEC FINAL ASM	ALL 4979 W/O EC 578935	0.8	0.5
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date 2/78							
DETAIL:													
INSTALLS A NEW SUPPORT BRACKET FOR THE ON/OFF SWITCH. THE NEW BRACKET ALLOWS THE CONTRAST KNOB TO SEAT MORE POSITIVELY IN THE SWITCH. REPLACES THE ON/OFF KNOB WITH ONE THAT CAN EASILY BE REMOVED.													
363/02-10-78													
2													
27	E	33		NONE	ALL	374918	712328			4979 VIDEO DISPLAY	ALL 4979s W/O REA27-11986 OR EC 374918	1.5	1.0
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: ADD A RESISTOR IN PARALLEL WITH THE REGULATOR TRANSISTOR, CHANGE THE BASE DRIVE RESISTOR OF THE HORIZONTAL DRIVER AND CHANGE THE PLASTIC COVERS ON THE TRANSISTORS.													
PRE REQ: NONE													
CHECKPOINT: TRANSISTORS MOUNTED ON SIDES OF MONITOR ASM WITH BLACK PLASTIC COVERS EQUALS EC INSTALLED.													
379/10-06-78													
3													
27	E	33		NONE	ALL	754878	6825856	4412912 4412913		4979 DISPLAY STATION	ALL 4979 WITH FEATURE 4412912 OR 4412913 AND W/O EC 754878 (U.S. & CANADA)	1.0	.5
						754878	8327280	4412908 4412909 4412910 4412911		4979 DISPLAY STATION	ALL 4979'S WITH B/M 4412908 OR 4412909 OR 441210 OR 441211 WITHOUT EC 754878 (WT MACHINES ONLY)	1.0	1.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO ADD SAFETY GROUND JUMPER TO ALL U.S. AND CANADA MACHINES. TO CHANGE POWER SUPPLY IN 4979 ALL W.T.													
PREREQUISITE: NONE													
CHECKPOINT: JUMPER P/N 5759216 BETWEEN MONITOR ASM AND BASE INSTALLED EQUALS EC 754878 INSTALLED, U.S. AND CANADA.													
P.S. P/N 4413615 EQUALS EC 754878 INSTALLED, W.T. MACHINES.													
389/03-09-79													
4													
27	E	33		NONE	ALL	755179	8326999	8327003		POWER LINE CAP. GER. AUST.	All 4979 DISPLAY STATIONS IN COUNTRIES 618, 668, 678, 724, 864, W/O EC 755179 and W/O REA 53-11895 INSTALLED	1.0	0.5
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
ADD CAPACITORS (P/N 5565240 and P/N 6825847) TO SATISFY RFI REQUIREMENTS.													
COUNTRIES AFFECTED ARE: GERMANY, AUSTRIA, CZECHOSLOVACIA, DENMARK, SOUTH AMERICA.													
SPECIAL TOOL MAY BE REQUIRED, P/N 2419989 (DOUBLE END ALIGNMENT TOOL).													
427/10-03-80													

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
5													
27	E	33		None	All	375134	6839079	4412908		PWR CP. 50 H2 WTC LO	4979s with	1.0	0.5
								4412910		PWR CD 50/60 Japan Low	4412908, 44129		
								4412912		PWR CD 60HZ LO US and CA	10, or 4412912 and W/O EC 375134		
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
<p>DETAIL: Purpose: EC to correct a potential safety problem.</p> <p>Description: Reverse the leads of cable P/N 1636922, in the power box, to the terminal block. This change takes the voltage off the fuse when fuse cap is removed.</p> <p>Special Tools: A special tool may be required. Double end alignment tool P/N 2419989.</p> <p style="text-align: right;">427/10-03-80</p>													

6													
27	A	33		None	All	375560	6840909	1634835	Mech	Mech/Elec Cable Assy. Replacement	All 4979's Attached to 4955E, 4952B or a 4959 that is attached to a 4955E or a 4955B	1.0	1.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
<p>DETAIL: This E/C replaces cable ASM P/N 1632205 with cable ASM P/N 4412661. The new cable eliminates an unstable display.</p> <p style="text-align: right;">427/10-03-80</p>													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Service Aids

Group 869

4979

1 4979 - US ORIGIN INSTALLED IN EMEA COUNTRIES

When, on U.S. Origin machines are installed in EMEA countries, you need to replace one of the following P/N:

1632473 Monitor
1633887 CRT
1633880 P.C. Board

You will be provided with the B/M 2420386 that supplies the current monitor asm installed on 53 original machines.

B/M 2420386 contains the following parts:

P/N 1621172 Screw (2)
P/N 2419989 Tool
P/N 2419990 Shield
P/N 2420348 Plate
P/N 2426426 Monitor
SY19-6055 Form-Theory Diagram
SY19-6056 Form-MIM

Insert in the appropriate binder the forms supplied with B/M 2420386 and remove forms SY34-0047 and SY34-0056.

Report the new P/N's on parts catalog. 389/03-09-79

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time		
								Feature B/M #	Seq #	Description of Feature		Man	Sys	
1														
27	E	33		NONE	ALL	578921	4411081	1637578			B/M MULTI-RANGE AMPLIFIER D/C 1070	ALL 4982 WITH B/M 1637578 WITHOUT EC 578921	1.5	1.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date								
DETAIL:														
PURPOSE: TO INSTALL NEW MULTIRANGE AMPLIFIER CARD P/N 4413762														
CHECKPOINT: MULTIRANGE AMPLIFIER CARD P/N 4413762 EQUALS EC 578921 INSTALLED (ALSO CHECK MACHINE HISTORY)														
CARD REPLACEMENT DATA: <u> REA </u> <u> OLD P/N </u> <u> NEW P/N </u>														
<div style="display: flex; justify-content: space-around;"> 27-11266 4412768 4410267 4410231 4413762 </div>														
359/12-09-77														
2														
27	E	33			ALL	578625	1636931	1637846			B/M SHIP GROUP 4982 MOD 001 B/M AI CONTROL D/C 1060 B/M ANALOG OUTPUT D/C 1065	ALL 4982 W/O EC 578625	0.3	0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date								
CONCURRENT: 4953 ECA 007 OR 4955 ECA 009 OR 4959 ECA 007 (EC 578625)														
DETAIL:														
PURPOSE: TO UPDATE 4982 MAINTENANCE PACKAGE TO EC 578625														
PREREQUISITE: 4982 ECA 001 - EC 578921 CHECK THAT MULTI-RANGE AMPLIFIER CARD IS P/N 4413762.														
NOTE: B/M 1636905 CONTAINS INSTALLATION INSTRUCTIONS FOR ALL B/M'S ON EC 578625.														
359/12-09-77														
3														
27	E	33		NONE	ALL	578806	2706291	1637575			DI/PI ISOLATED D/C 3530	ALL 4982 WITH B/M 1637575 WITHOUT EC 578806	1.0	.5
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date								
DETAIL:														
PURPOSE: TO INSTALL NEW DI/PI ISOLATED CARD P/N 4412774, RESISTOR PROTECTS 24V LINE TO CUSTOMER CONNECTOR.														
CHECKPOINT: DI/PI ISOLATED CARD P/N 4412774 EQUALS EC 578806 INSTALLED (ALSO CHECK MACHINE HISTORY).														
CARD REPLACEMENT DATA: <u> OLD P/N </u> <u> NEW P/N </u>														
<div style="display: flex; justify-content: space-around;"> 4413394 4412774 </div>														
363/02-10-78														
4														
27	E	33		NONE	ALL	578775	1636913	1637846			DI/PI NON ISOLATED CE TOOL	ALL 4982s WITH FEATURE B/M 1637846 AND WITHOUT E/C 578775	.5	.0
MSIR CODE <u> </u>						Parts Source and Anticipated Availability Date								
DETAIL:														
PURPOSE: TO REVISE ALL 4413365 INTO NEW CE TOOL P/N 4412726, ADDS LABEL.														
CHECK POINT: CE TOOL P/N 4413365 EQUALS E/C NOT INSTALLED.														
365/03-10-78														

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

5	27	E	33		NONE	ALL	578776	1636914	1637846		DI/PI ISOLATED CE TOOL	ALL 4982s WITH FEATURE B/M 1637846 AND WITHOUT E/C 578776	.5	.0
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MSIR CODE _____ Parts Source and Anticipated Availability Date

DETAIL:

PURPOSE: TO REVISE ALL 4413366 TO NEW CE TOOL P/N 4412728, ADDS LABEL.

CHECK POINT: CE TOOL P/N 4413366 EQUALS E/C NOT INSTALLED.

365/03-10-78

6	27	E	33		002	ALL	754882	5889135	1637577	OR	AI CONTROL FEATURE D/C 1060	ALL 4982 WITH ANALOG FEATURE W/O E/C 754882	0.6	0.0
									1637578	OR	INST AMP			
									1637579	OR	MPXR REED RELAY			
									1637580	OR	MPXR SOLID STATE			
									1637581		AO D/C 1065			
							5889136		1637574	OR	DI/NON ISOLATED	ALL 4982 WITH DI FEATURE W/O E/C 754882	0.2	0.0
									1637575		DI ISOLATED			
							5889137		1637576	DO		ALL 4982 WITH DO FEATURE W/O EC 754882	0.2	0.0

MSIR CODE D Parts Source and Anticipated Availability Date

CONCURRENT: ONE OF THE FOLLOWING AT E/C 754882

DETAIL:	FB/M	FEATURE	ECA	FEATURE B/M
	2706292	4953A	016	1637980
	2706293	4953B	016	1637981
	2706294	4953C	016	4411355
	2706295	4953D	016	4411356
	0712251	4955A	017	1637753
	0712252	4955B	017	1637983
	0712253	4955C	017	4411367
	0712254	4955D	017	4411368

PURPOSE: TO UPDATE DIAGNOSTICS TO E/C 754882.

PRE REQ: E/C 578625 ON 4982

CHECKPOINT FOR 754882 - PROLOG MAP A400 AT E/C 754882 EQUAL E/C INSTALLED.

CHECKPOINT FOR PRE REQ 578625 - PROLOG MAP A400 AT 578625 EQUAL PRE REQ INSTALLED.

366/03-24-78

7														
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MSIR CODE _____ Parts Source and Anticipated Availability Date

DETAIL:

NOTE: FIELD BILL OF MATERIAL FOR 4982 AT EC 755404 HAS BEEN CANCELLED ECA 7 PUBLISHED FOR SEQUENCE PURPOSES ONLY. 390/03-23-79

8	27	E	33		NONE		755093	6837310	4412944		4982 HIGH VOLTAGE WTC	4982'S WITH B/M 4412944 INSTALLED IN THE UNITED KINGDOM WITHOUT EC 755093	1.0	1.0
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MSIR CODE D Parts Source and Anticipated Availability Date

DETAIL: PURPOSE: DISCONNECT THE FUSE (F-2) ACROSS NEUTRAL IN U.K. HIGH VOLTAGE 4982 PRIMARY POWER CIRCUITS.

PREREQUISITE: NONE

390/03-23-79

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

PAGE	2	PUBLICATION	390/03-23-79
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CEM Engineering Change Announcements Group 44

4982

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
9													
27	E	33		NONE	ALL	755529	6837756	1637573		4982 SIO	ALL 4982'S WITH REA 27-11937 & W/O E/C 755529 ALL 4982'S WITHOUT REA 27-11937 & WITHOUT E/C 755529	.5	.0
						755529	8326871	1637573		4982 SIO		1.0	.8
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: INSTALL NEW SIO TERMINATOR CARD AND UPDATE LOGICS TO E/C 578819 (B/M 8326871) PROVIDES TERM. FOR SYS RESET TO UPDATE LOGICS TO E/C 578819 (B/M 6837756).													
PREREQUISITES: NONE													
CHECKPOINT: TERMINATOR CARD P/M 6825360 INSTALLED EQUALS REA 27-11937 INSTALLED. LOGIC PAGE SS310 AT E/C 578819 EQUALS E/C 755529 INSTALLED.													
CARD DATA: <u> OLD P/N </u> <u> NEW P/N </u>													
						4411518	6825360						390/03-23-79
						4411610							
10													
27	E	33		NONE	ALL	374880	712329	RPO D02071		14 BIT AI	ALL 4982'S WITH D02071 & WITHOUT EC 374880	.2	.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: PROVIDE CE TOOL P/N 6826801 FOR AI CALIBRATION.													
PREREQUISITE: NONE													
CONCURRENT: EC 374931 ECA 11													
											390/03-23-79		
11													
27	E	33		NONE		374931	712330	RPO D02071		14 BIT AI	ALL 4982'S WITH D02071 & WITHOUT EC 374931	0.2	0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: UPDATE MAPS 8030 AND 8036													
PREREQUISITE: NONE													
CONCURRENT: EC 374880 ECA 10													
											390/03-23-79		
12													
27	E	33		NONE		375052	6839319 6839320 6839321 6839322 6839323	1637577 1637598 1637579 1637580 1637581		ANALOG INPUT CONTROL MULTI-RANGE AMPLIFIER MULTIPLEXOR-REED RELAY MULTIPLEXOR-SOLID STATE ANALOG OUTPUT	ALL 4982'S	0.2 0.2 0.2 0.2 0.2	0.0 0.0 0.0 0.0 0.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
COMPANION OR CONCURRENT: 6839318 - THIS BILL IS ON MACHINE TYPES 4953/55/59.													
DETAIL: PURPOSE: TO INSTALL IMPROVED DIAGNOSTICS.													
DESCRIPTION: UPDATE DIAGNOSTICS FOR THE 4982 ATTACHMENTS.													
											401/08-31-79		

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
13													
27	E	33		None		375375	6841436				ALL 4982 W/O EC 375375 OR W/O REA 27-12186	1.0	1.0
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL:													
INSTALL SHRINK TUBING ON TERMINALS 3 & 6 ON THE POWER ON/OFF SWITCH ON THE 4982 TO PREVENT THE POSSIBILITY OF SHORTING. 431/12-5-80													
14													
27	E	33		None		375384	6843670	1637846		SHIP GROUP MOD 1	ALL 4982 W/O EC 375384	.5	0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL:													
UPDATE MAINTENANCE DOCUMENTATION FOR THE 4982. 431/12-5-80													
15													
27	E	33		None		876916	6845414 6845415 6845416 6845417 6845418 6845419 6845420 6845421	1637574 1637575 1637576 1637577 1637578 1637579 1637580 1637581		DI/PI NON ISOLATED DI/PI ISOLATED DIGITAL OUTPUT ANALOG INPUT CONTROL AMP. MULTI-RANGE MULTIPLEXER REED RELAY MULTIPLEXER SOLID STATE ANALOG OUTPUT	ALL 4982's W/O EC 876916	.2 .2 .2 .2 .2 .2 .2 .2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date													
CONCURRENT: FB/M 6845413													
DETAIL:													
UPDATE THE MAINTENANCE DOCUMENTATION FOR 4982 FEATURES INSTALLED. 431/12-5-80													
16													
27	A	33		None	All	876784	4498720	1637846		4982 Basic	All 4982's 876784	0.5	0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date Boca 1/9/80													
CONCURRENT: This FB/M to be installed on all 4952, 4953, 4955 processors if feature is installed.													
DETAIL: Update maintenance documentation. 436/02-20-81													

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869 4987

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33			ALL		6837832	4411241		4987 BASIC	ALL 4987's	.5	.3
							6837834	4411556		AUTO CALL		.2	0
							6837835	4411555		EIA DIRECT CONNECT		.2	0
							6837836	4411554		EIA DIRECT CONNECT		.2	0
							6837837	4411552		TTY ATTACH		.2	0
							6837838	4411551		EIA HALF DUPLEX		.2	0
							6837839	4411557		EIA FULL DUPLEX		.2	0
							6837840	4411558		38LS MODEM		.2	0
							6837840	4411559		38LS MODEM		.2	0
							6837840	4411561		38LS MODEM		.2	0
							6837840	4411562		38LS MODEM		.2	0
							6837840	4412657		38LS MODEM		.2	0
							6837840	4412658		38LS MODEM		.2	0
							6837841	4411563		1200 BPS MODEM		.2	0
							6837842	4411560		1200 BPS MODEM		.2	0
							MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date 12/78			
DETAIL:													
PURPOSE: THIS ENGINEERING CHANGE INSTALLS AN IMPROVED MAINTENANCE PACKAGE AND A NEW 4987 DIAGNOSTIC DISKETTE.													
PREREQUISITE: THE SERIES/1 BASIC DIAGNOSTICS MUST BE AT EC 755331 OR HIGHER.													
CHECKPOINT: THE BASIC DIAGNOSTIC DISKETTE (P/N 1635001) MUST BE AT EC 755331 OR HIGHER.													
NOTE: ECA 001 MUST BE INSTALLED CONCURRENTLY WITH B/M 6837833 ON THE 4953 (ECA 037), 4955 (ECA 038), OR THE 4959 (ECA 034).													
385/01-05-79													
2													
27	E	33		001	ALL	755544	0712363	4411103		4987 FINAL ELECTRICAL	4987'S WITH B/M 4411103 WITHOUT REA27-11915 AND WITHOUT EC 755544	.5	.5
27	E	33		001	ALL	755544	0712361	4411550		4987 EXPANSION SCANNER	4987'S WITH B/M 4411550 WITHOUT REA27-11915 AND WITHOUT EC 755544	.5	.5
							MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date 2/79			
DETAIL: INSTALLS A NEW SCANNER CARD.													
PURPOSE: THE SCANNER RAW CARD IS REPLACED TO ELIMINATE THE OVER FLOW WIRES ON THE PON SIDE OF THE CARD.													
DESCRIPTION: <u>NEW CARD</u> <u>OLD CARDS</u>													
						6825362	8333805	4413997					
							8327476	4413781					
							4414852	4411836					
390/03-23-79													
3													
27	E	33		001	ALL	375032	6839114	4411241		4987 BASIC	4987'S WITH B/M 4411241 AND WITHOUT EC 3755032	.5	.3
							6839116	4411551		EIA HALF DUPLEX		.2	0
							6839117	4411552		TTY ATTACH		.2	0
							6839118	4411553		38LS MODEM		.2	0
							"	4411558		"		.2	0
							"	4411559		"		.2	0
							6839119	4412657		"		.2	0
							"	6826534		"		.2	0
							6839120	4412658		38LS (JAPAN ONLY)		.2	0
							"	4412658		38LS MODEM		.2	0
							"	6826535		38LS (JAPAN ONLY)		.2	0
							6839121	4411554		ASYNC LOCAL ATTACH		.2	0
							6839122	4411555		SYNC LOCAL ATTACH		.2	0
							6839123	4411556		AUTO CALL		.2	0
							6839124	4411557		FULL DUPLEX DCE		.2	0
							MSIR CODE <u> D </u>			Parts Source and Anticipated Availability Date 4/79			

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

3 continued

DETAIL: THIS EC PROVIDES A NEW DIAGNOSTIC PACKAGE FOR THE 4987.

PURPOSE: TO MAKE THE DIAGNOSTIC TIMINGS PROCESSOR INDEPENDENT AND CORRECT SEVERAL ERRORS IN THE DIAGNOSTICS.

CHECKPOINT: THE 4987 DIAGNOSTIC DISKETTE (PN 4414981) MUST BE AT EC LEVEL 755458.

390/03-23-79

4

27	A	33		003		375469	6844995	4411241		SHIP GROUP	All 4987 W/O EC 375469	0.5	0.5
							6844997	4411551		EIA DATA SET INTER		0.5	0.5
							6844998	4411552		ITY INTERFACE		0.5	0.5
							6844999	4411553		DIAL DIG NET		0.5	0.5
							6845000	4411554		EIA ASYNC DIRECT		0.5	0.5
							6845001	4411555		EIA SYNG DIRECT		0.5	0.5
							6845002	4411556		AUTOCALL		0.5	0.5
							6845003	4411557		EIA FULL DUPLEX		0.5	0.5
							6845004	4411558		US SW NETWORK AUTO		0.5	0.5
							6845005	4411559		LS US LEASED LINE		0.5	0.5
							6845006	4411560		LS US LEASED LINE		0.5	0.5
27	A	33		003		375469	6845007	4411561		LS US SW NET AUTO AN		0.5	0.5
							6845008	4411562		US LEASE LN W/C LK		0.5	0.5
							6845009	4411563		US LEASE LN MANUAL		0.5	0.5
							6845010	4412657		1200 BPS INTEG MODEM		0.5	0.5
							"	6826534		INT MODM A FOR GBG/I		0.5	0.5
							6845011	4412658		1200 BPS INTEG W/CLK		0.5	0.5
							"	6826535		INT MODM FOR GBG/I		0.5	0.5

MSIR CODE _____

Parts Source and Anticipated Availability Date

CONCURRENT: 6844996 on 4952, 4953, 4955, or 4959.

DETAIL: UPDATE 4987 DIAGNOSTICS. RELEASES MAP E006 WHICH ALLOWS BACK TO BACK RUNS OF AUTO DIAGNOSTICS. RELEASES E1F3 FOR DUMPING CONTROLLER STORAGE. RELEASES E1E7 FOR 2740/2741 DOWNLINE EXERCISER.

CHECKPOINT: DISKETTE 4414981 AT EC375032

431/12-5-80

5

27	A	33		001		877043	6846269	4411103		Final Electric Feat.	All With	0.5	0.5
						877043	6846268	4411550		PCS Exp. Scanner	B/M 4411103		
											W/O REA27-11915		
											W/O EC877043		
											or with		
											B/M 4411550		
											W/O REA27-11915		
											W/O EC 877043		

MSIR CODE c

Parts Source and Anticipated Availability Date

COMPANION OR CONCURRENT: NONE

DETAIL: Improve the data set checking capability of the 4987 scanner. Installs P/N 6845048 which is a direct replacement for P/N 6825362.

This ECA should be ordered for all machines with the audio response RPQ D02337.

431/12-5-80

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

PAGE	2	PUBLICATION	431/12-5-80
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CEM Engineering Change Announcements Group 869

4991

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33			201	576789	6838707	4411928		4991 EXPLOSION PROOF MAGNETIC STRIPE READER	ALL WITH & WITHOUT REA27-12088	.2	.0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: TO CORRECT BADGE READER GOING IN OSCILLATION AND CAUSING EXTRA INTERRUPTS.													
DESCRIPTION: REPLACES AMPLIFIER CARD.													
CHECKPOINT: AMPLIFIER CARD P/N 5863348 INSTALLED EQUALS E/C 576789 INSTALLED.													
CARD P/N DATA: <u>OLD P/N</u> <u>NEW P/N</u>													
						5863344	5863348						389/03-09-79
2													
27	E	33		NONE		375162	6839315	4411928		4991 EXPLOSION-PROOF MAG STRIPE CREDIT CARD READER	ALL 4991'S WITHOUT 375162	0.1	0
MSIR CODE <u> D </u>						Parts Source and Anticipated Availability Date							
DETAIL:													
PURPOSE: UPDATE MAINTENANCE INFORMATION MAP 802A-1 TO CORRECT PNs													
PREREQ: NONE													
CHECKPOINT: MAP 802A AT EC 375162 EQUALS EC INSTALLED.													
												401/08-31-79	

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4995

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys

1													
27						987719							
MSIR CODE _____						Record purposes only. This EC was released prior to first customer ship.							
						Parts Source and Anticipated Availability Date							
DETAIL:											458/12-23-81		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES

CEM Engineering Change Announcements Group 869

4997

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		NONE		754882	5889138	1634585		4997-010 & METER 4997-020 1.8 METER	ALL ALL	0.2 0.2	0.0 0.0
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 1/79							
DETAIL:													
UPDATES MAP FOR THE 4997 POWER DISTRIBUTION											389/03-09-79		
2													
27	E	33		NONE		375034	6838904	4410960		HI VOLTAGE PWR 1.0 METER CANADA	4997 WITH B/M 4410960 W/O EC 375034 & WITHOUT REA27-12032	1.0	1.0
							6838905	4410954		HI VOLTAGE PWR 1.8 METER CANADA	4997 WITH B/M 4410954 W/O EC 375034 & WITHOUT REA27-12032	1.8	1.8
				MSIR CODE <u> D </u>		Parts Source and Anticipated Availability Date 1/79							
DETAIL:													
SAFETY													
THIS EC REPLACES THE FUSE HOLDER ELIMINATING A POSSIBLE SAFETY HAZARD.											389/03-09-79		
3													
27	A	33		None		374920	6839021	1637905		FINAL HARDWARE ASM	ALL W/O EC 374920	1.5 2.3	1.5 2.3
				MSIR CODE _____		Parts Source and Anticipated Availability Date							
DETAIL:													
REPLACE EXISTING STABILIZER AND MOUNTING HARDWARE. PROVIDES ADDITIONAL STABILITY REQUIRED FOR CERTAIN MACHINE CONFIGURATIONS.											432/12-19-80		

*OPTIONAL CHANGES (AS REQUIRED) SEE DETAIL SECTION FOR PREREQUISITES



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ECA 004 EC 466795 6-16-82

As Required _____ SERVICE CODE 33 _____

Order From _____ Boca Raton _____

AVAILABLE _____

PURPOSE: Correct minor errors in MAP 1471

PREREQUISITES: None

TYPE MODEL, STAGE	WITH FEAT OR DEVICE B/M	FEATURE OR DEVICE DESCRIPTION	FIELD B/M REQUIRED	EST CE HRS	EST SYS HRS	TO INSTALL B/M	REQUIRES ECA	WHICH IS EC	CHECK POINT
4997	All	RAS Group	4745801	0.2	0.0				

COMPANION: None

CONCURRENT: None

DETAIL: Replace Map 1471 in volume 02L with new MAP supplied in this FB/M.

Plant of Origin	Chg Type	Serv Code	Basic Seq #	Pre-Req ECA #	Model or Stage	E/C #	B/M #	DEVICE OR CONFIGURATION (Feature)			Machines Affected	Inst Time	
								Feature B/M #	Seq #	Description of Feature		Man	Sys
1													
27	E	33		NONE	ALL	754882	5889139	1637992 4411362		B/M BATTERY BACKUP UNIT 4999 MOD. 1 B/M BATTERY BACKUP UNIT 4999 MOD. 2	ALL 4998 W/O EC754882	0.2	0.0
					SEE CONCURRENT:		2706292 2706293 2706294 2706295 0712251 0712252 0712253 0712254	1637980 1637981 4411355 4411356 1637753 1637983 4411367 4411368		B/M SHIP GROUP 4953-A B/M SHIP GROUP 4953-B B/M SHIP GROUP 4953-C B/M SHIP GROUP 4953-D B/M SHIP GROUP 4955-A B/M SHIP GROUP 4955-B B/M SHIP GROUP 4955-C B/M SHIP GROUP 4955-D			
MSIR CODE <u> D </u> Parts Source and Anticipated Availability Date													
CONCURRENT: ONE OF THE FOLLOWING B/Ms MUST BE INSTALLED CONCURRENT WITH THIS B/M.													
DETAIL:													
PURPOSE: TO INSTALL IMPROVED LOGICS AND MAPS.													
CHECKPOINT: LOGIC PAGE YX100 AT EC 754882 EQUALS EC 745882 INSTALLED (ALSO CHECK MACHINE HISTORY).													
369/05-05-78													
2													
27	A	33	NONE	NONE	ALL	375384	6843673	1637992 4411362		SHIP GROUP MODEL 1 SHIP GROUP MODEL 2	ALL W/O 375384	0.5 0.5	0.0 0.0
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL:													
PURPOSE: UPDATE MAPS AND PICK UP OUTSTANDING REAs													
436/02-20-81													
3													
27	E	33	None	None	ALL	876875	6840372	6838617 6838618 6838619 6838620 6838621 6838622		ENGLISH LABEL B/M FRENCH/CANADIAN LABEL ITALIAN LABEL GERMAN LABEL SPANISH LABEL FRENCH LABEL	ALL W/O 876875 OR REA 27-12469	0.5	0.5
MSIR CODE _____ Parts Source and Anticipated Availability Date													
DETAIL:													
PURPOSE: TO MEET NEW SAFETY REQUIREMENT.													
DESCRIPTION: PLACEMENT OF TAB #2 WARNING LABEL TO FRONT OF 4999 WILL MEET THE TASK FORCE'S SAFETY REQUIREMENT.													
436/02-20-81													