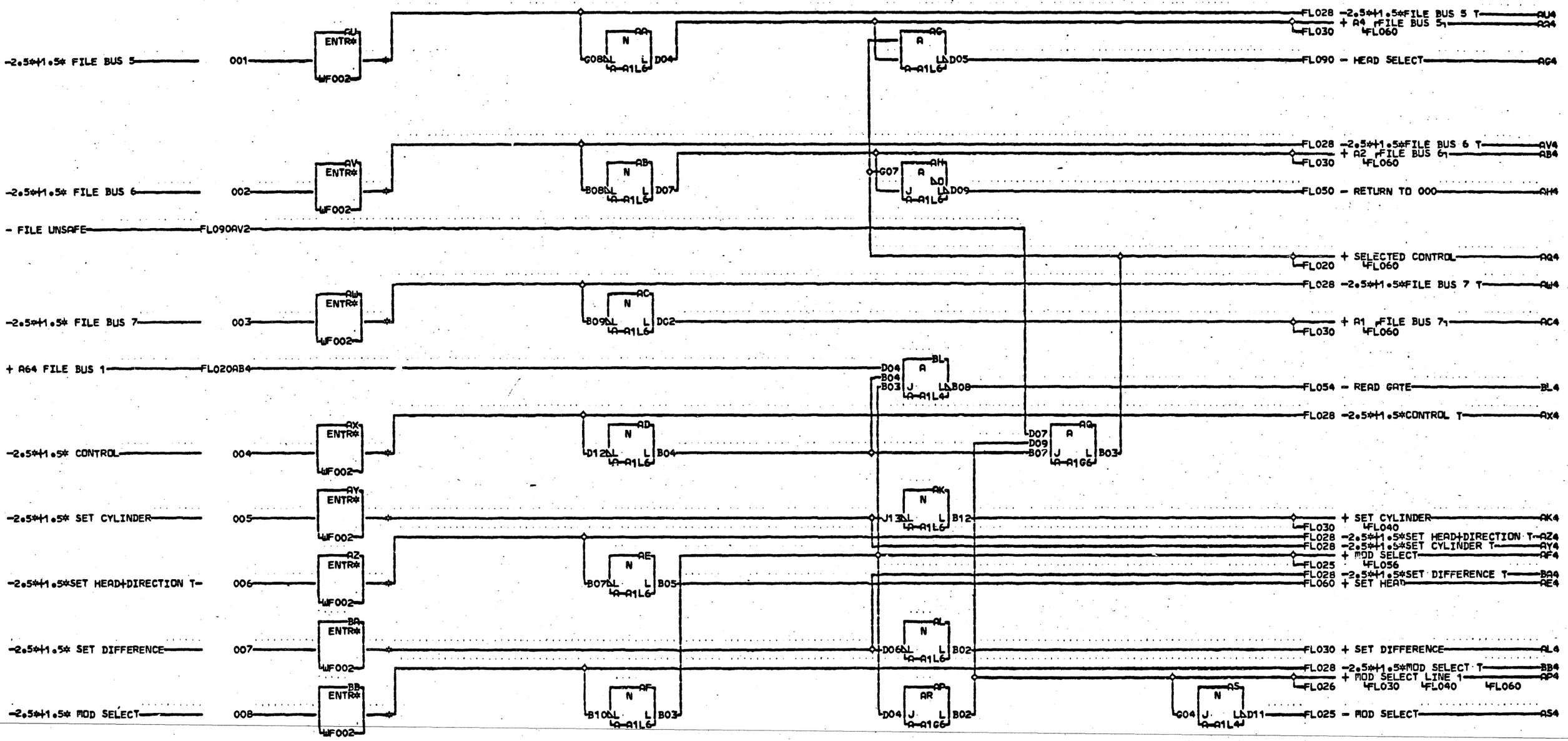
PAGE NO. SH	TITLE	PART NO	EC NO.	FEATURE B/M OR B/MS
** LOGIC TYPE SLT BOARDS	6			
01A-A1	CUSTOM BOARD	2218200	424000	
01A-A2	CUSTOM BOARD	2218202	420927	



FL021 000

AU4 A-A1N7B07
AV4 A-A1N7B08
AW4 A-A1N7B09
AX4 A-A1N7B13
AY4 A-A1N7D13
AZ4 A-A1N7B12
BA4 A-A1N7B10
BB4 A-A1N6B09

LOC.	TYPE
A-A1G6	6269
A-A1L4	8338
A-A1L6	4270

LINE RECEIVERS

E.C.-HISTORY	
416035	416097
416044	420852
416080	420841
416091	420925
DATE	LAST EC
07-10-67	420928

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218221

FL021 000

A6 DOUBLE CARD
A7 5806264 6264

FL056 A1 B1 C1 E1 F1 G1
H1 H2 J1 K1

UNUSED PORTIONS

D

A8 CONNECTOR
E04 FL020AG4
E06 FL056AY5

B8 CONNECTOR
A06 FL020AK4
B04 FL056AB6
B06 FL056AL4
C04 FL056BB4
E06 FL090BD4

C6 CONNECTOR
B02 FL040BP4
B04 FL030AR4
B07 FL030AN4
B09 FL090AJ4
B10 FL030AK4
B13 FL030AJ4
D02 FL090AK4
D04 FL090AL4
D05 FL030AL4
D06 FL040BM4
D09 FL030AM4
D10 FL030AS4
D11 FL025CG4
D12 FL040BK4
D13 FL030AP4

C7 CONNECTOR
B02 FL060AN4
B04 FL040AT4
B07 FL060BC4
B09 FL040AL4
B10 FL026EF4
B12 FL054BB4
D02 FL040AR4
D04 FL060BA4
D05 FL040AN4
D07 FL060AL4
D09 FL040BH4
D11 FL030BD4
D12 FL060BP4

C8 CONNECTOR
A06 FL093AG4
B04 FL073AB4
B06 FL090AB3
C04 FL090AB5
C06 FL090AB6
D04 FL020AH4
E04 FL093AB2

D6 DOUBLE CARD
D7 5807221 7221

FL090 AA AB AC AE AF AJ
AK AL AM AN AP AR
AS AT AU AV AX AY
AZ BA BB BD BE BF
BG

D8 CONNECTOR
A04 FL066AB4
A06 FL066AF4
E04 FL056AK4

E6 DOUBLE CARD
E7 5804273 4273

FL060 A1 A4 A5 A7 AA AB
AC AD AE AF AG AH
AJ AK AL AM AN AP
AQ AS AT AU AV AW
AX AY AZ
FL025 BA

E8 CONNECTOR
B04 FL056AY5
B06 FL056AY7
C04 FL056AY4
D04 FL056AK4
E04 FL056AW5
E06 FL056AW2

1F6 DOUBLE CARD
0F7 5807325 7325
0
1 FL053 AA AB AD AE AF AG
AH AJ AK AL AM AN
AP AR AT AW AX AY
AZ BA BG BH BJ
FL050 BK

F8 CONNECTOR
A04 FL056AY2
B04 FL056AX6
B06 FL056AW4
C04 FL056AX7
E04 FL056BA4
E06 FL056AX8

G5 SINGLE CARD 8340 •01U

FL054 BA CA

G6 DOUBLE CARD
G7 5806269 6269

FL056 AA
FL090 BA
FL053 CA
FL050 DA DB
FL090 FA
FL050 GA GB
FL021 HA HB JA JB
FL050 KA
FL054 LA
FL050 MA
FL020 PA PB
FL090 SA
FL026 TA

G8 CONNECTOR
A04 FL056AX4
A06 FL056AK4

H4 DOUBLE CARD
H5 5808338 8338

FL050 A1 A2 B1
FL056 C1
FL054 D1 E1
FL050 F1
FL054 G1 H1
FL053 J1
FL050 K1 K2
FL053 L1 M1

UNUSED PORTIONS

P

H6 DOUBLE CARD
H7 5806270 6270

FL040 01 02 03 04 05 06
07 08 09 10 11 12
13 14 15 16 17 18
19 21 22 23 24 25
26 27 28 29 30 31
32 33 34 35 36 37
38 39 40 B1

J4 DOUBLE CARD
J5 5808338 8338

FL050 A1 A2 B1 C1
FL054 D1
FL090 E1
FL053 F1
FL054 G1 H1
FL050 J1 K1 K2
FL054 L1
FL053 M1

UNUSED PORTIONS

P

J6 DOUBLE CARD
J7 5804268 4268

FL030 A3 AA AB AC AD AE
AF AG AH AJ AK AL
AM AN AP AQ AS AT
AU AV AW AX AY AZ
BA BC
FL050 CA

UNUSED PORTIONS

D

J8 CONNECTOR
B06 FL090CA4
D04 FL093AG4
E04 FL093AK4
E06 FL073AB4

K4 DOUBLE CARD
K5 5808338 8338

FL050 A1 A2 B1
FL090 C1 D1
FL026 E1 F1
FL054 G1 H1 J1
FL050 K1 K2
FL053 L1
FL090 M1

UNUSED PORTIONS

P

K6 DOUBLE CARD
K7 5804270 4270

FL026 AA AB AC AD AE AF
AH AJ AK AM AN AP
AQ BA BB BC BD BE
BF BG BH BJ BK BL
BM BN
FL025 CB CC
FL020 DA DB DC DE DF FA
HA
FL050 LA

UNUSED PORTIONS

J K M

K8 CONNECTOR
A04 FL093AB2
A06 FL093AF4
E04 FL066AD4
E06 FL066AL4

L4 DOUBLE CARD
L5 5808338 8338

FL050 A1 A2 B1
FL090 C1
FL021 D1
FL054 E1
FL050 F1
FL056 G1
FL021 H1
FL050 J1 K1 K2 L1
FL090 M1

UNUSED PORTIONS

P

L6 DOUBLE CARD
L7 5804270 4270

FL025 AA AB AC AD AE AF
AH AJ AK AM AN AP
BA BB BC BD BE BF
BG BH BJ BK BL BM
BN BP CB CC
FL021 DA DB DC DE DF FA
HA JA KA LA

UNUSED PORTIONS

M

L8 CONNECTOR
A06 FL030AJ4
B04 FL066AK4
B06 FL066AS4
C04 FL066AU4
C06 FL066AN4
D04 FL066AV4
E04 FL066AM4
E06 FL066AR4

M5 SINGLE CARD 2X8S
5800720 0720

FL028 AA AB AC AD AE AF
AG AH AM AN AP AQ
AR

UNUSED PORTIONS

B C D E F G H J K
L M N P Q S

M6 DOUBLE CARD
M7 5806261 6261

FL066 AA AB AC AD AE AF
AG AH AJ AK
FL060 AL AM AN AP AQ AR
AS
FL066 C1 C2 C3 C4 C5 C6
C7 C9 CB

UNUSED PORTIONS

B

M8 CONNECTOR
A06 FL066AA4
B04 FL066AT4
B06 FL066AQ4
C04 FL066AH4
C06 FL066AC4
E04 FL066AE4
E06 FL066AG4

N5 CONNECTOR
B02 FL090CG4
B02 FL090CG4
B03 FL050AU4
B04 FL050BA4
B05 FL056AL4
B07 FL050AY4
B08 FL050AV4
B09 FL050AZ4
B10 FL050AW4
B12 FL050AT4
B13 FL050AX4
D02 FL090AY4
D05 FL054BL4
D06 FL054BC4
D07 FL053AS4
D09 FL053BC4
D10 FL050BZ4
D12 FL056AV4
D13 FL090BT4

N6 CONNECTOR
B02 FL026AN4
B03 FL026AM4
B04 FL026BC4
B05 FL026BB4
B06 FL020AH4
B07 FL025BA4
B08 FL025BB4
B09 FL021BB4
B10 FL025AZ4
D02 FL026BD4
D04 FL026AL4
D05 FL026AK4
D06 FL026BA4
D07 FL066AV4
D11 FL090BD4
D13 FL066AW4

N7 CONNECTOR
B02 FL020AJ4
B03 FL020AF4
B04 FL020AS4
B05 FL020AT4
B07 FL021AU4
B08 FL021AV4
B09 FL021AW4
B10 FL021BA4
B12 FL021AZ4
B13 FL021AX4
D02 FL025CH4
D05 FL025CM4
D06 FL025AL4
D07 FL025AK4
D09 FL025BD4
D10 FL025AM4
D11 FL025BC4
D12 FL020AU4
D13 FL021AY4

N8 CONNECTOR
A04 FL066AF4
A06 FL066AB4

PLUG LIST

PART NO	ACC	TYPE	SOCKETS				TOTAL
5800720	2X8S	0720	M5				01
5804268		4268	J6				01
5804270		4270	K6	L6			02
5804273		4273	E6				01
5806261		6261	M6				01
5806264		6264	A6				01
5806269		6269	G6				01
5806270		6270	H6				01
5807221		7221	D6				01
5807325		7325	F6				01
5808338		8338	H4	J4	K4	L4	04
		CONN	A8	B8	C6	C7	17
			C8	D8	E8	F8	
			G8	J8	K8	L8	
			M8	N5	N6	N7	
			N8				
	•01U	8340	G5				01

SOCKET LISTING
DATE 07-31-67 MACH• 2314 A
1
LOG 212T BOARD 01A-A1 0
PREV• ENGR• — — 420925 0
PRES• ENGR• 07-31-67 420928 1
P•N• 2218216 000
IBM CORP• SDD BLK•

A1 CONNECTOR
E09 FU020AG4
E11 FU056AY5

A2 DOUBLE CARD
A3 5806264 6264

FU056 A1 B1 C1 E1 F1 G1
H1 H2 J1 K1

UNUSED PORTIONS

D

B1 CONNECTOR
A11 FU020AK4
B09 FU056AB6
B11 FU056AL4
C09 FU056BB4
E11 FU090BD4

C1 CONNECTOR
A11 FU093AG4
B09 FU073AB4
B11 FU090AB3
C09 FU090AB5
C11 FU090AB6
D09 FU020AH4
E09 FU093AB2

C2 CONNECTOR
B02 FU040BP4
B04 FU030AR4
B07 FU030AN4
B09 FU090AJ4
B10 FU030AK4
B13 FU030AJ4
D02 FU090AK4
D04 FU090AL4
D05 FU030AL4
D06 FU040BM4
D09 FU030AM4
D10 FU030AS4
D11 FU025CG4
D12 FU040BK4
D13 FU030AP4

C3 CONNECTOR
B02 FU060AN4
B04 FU040AT4
B07 FU060BC4
B09 FU040AL4
B10 FU026BF4
B12 FU054BB4
D02 FU040AR4
D04 FU060BA4
D05 FU040AN4
D07 FU060AL4
D09 FU040BH4
D11 FU090BD4
D12 FU060BP4

C4 DOUBLE CARD
C5 5808338 8338

FU050 A1 A2 B1
FU056 C1
FU034 D1 E1
FU050 F1
FU054 G1 H1
FU053 J1
FU050 K1 K2
FU053 L1 M1

UNUSED PORTIONS

P

D1 CONNECTOR
A09 FU066AB4
A11 FU066AF4
S09 FU056AK4

D2 DOUBLE CARD
D3 5807221 7221

FU090 AA AB AC AE AF AJ
AK AL AM AN AP AR
AS AT AU AV AX AY
AZ BA BB BD BE BF
BG

D4 DOUBLE CARD
AD5 5808338 8338
1
0 FU050 A1 A2 B1 C1
0 FU054 D1
3 FU090 E1
FU053 F1
FU054 G1 H1
FU050 J1 K1 K2
FU054 L1
FU053 M1

UNUSED PORTIONS

P

E1 CONNECTOR
B09 FU056AY5
B11 FU056AY7
C09 FU056AY4
D09 FU056AK4
E09 FU056AW5
E11 FU056AW2

E2 DOUBLE CARD
E3 5804273 4273

FU060 A1 A4 A5 A7 AA AB
AC AD AE AF AG AH
AJ AK AL AM AN AP
AQ AS AT AU AV AW
AX AY AZ
FU025 BA

E4 DOUBLE CARD
E5 5808338 8338

FU050 A1 A2 B1
FU090 C1 D1
FU026 E1 F1
FU054 G1 H1 J1
FU050 K1 K2
FU053 L1
FU090 M1

UNUSED PORTIONS

P

F1 CONNECTOR
A09 FU056AY2
B09 FU056AX6
B11 FU056AW4
C09 FU056AX7
E09 FU056BA4
E11 FU056AX8

F2 DOUBLE CARD
F3 5807325 7325

FU053 AA AB AD AE AF AG
AH AJ AK AL AM AN
AP AR AT AW AX AY
AZ B6 BA BH BJ
FU050 BK

F4 DOUBLE CARD
F5 5808338 8338

FU050 A1 A2 B1
FU090 C1
FU021 D1
FU054 E1
FU050 F1
FU056 G1
FU021 H1
FU050 J1 K1 K2 L1
FU090 M1

UNUSED PORTIONS

P

G1 CONNECTOR
A09 FU056AX4
A11 FU056AK4

G2 DOUBLE CARD
G3 5806269 6269

FU056 AA
FU090 BA
FU053 CA
FU050 DA DB
FU090 FA
FU050 GA GB
FU021 HA HB JA JB
FU050 KA
FU054 LA
FU050 MA
FU020 PA PB
FU090 SA
FU026 TA

G5 SINGLE CARD
8340 .01U
FU054 AA AB

H2 DOUBLE CARD
H3 5806270 6270

FU040 01 02 03 04 05 06
07 08 09 10 11 12
13 14 15 16 17 18
19 21 22 23 24 25
26 27 28 29 30 31
32 33 34 35 36 37
38 39 40 B1

J1 CONNECTOR
B11 FU090CA4
D09 FU093AG4
E09 FU093AK4
E11 FU073AB4

J2 DOUBLE CARD
J3 5804268 4268

FU030 A3 AA AB AC AD AE
AF AG AH AJ AK AL
AM AN AP AQ AS AT
AU AV AW AX AY AZ
BA BC
FU050 CA

UNUSED PORTIONS

D

K1 CONNECTOR
A09 FU093AB2
A11 FU093AF4
E09 FU066AP4
E11 FU066AL4

K2 DOUBLE CARD
K3 5804270 4270

FU026 AA AB AC AD AE AF
AH AJ AK AM AN AP
AQ BA BB BC BD BE
BF BG BH BJ BK BL
BM BN
FU025 CB CC
FU020 DA DB DC DE DF FA
HA
FU050 LA

UNUSED PORTIONS

J K M

L1 CONNECTOR
A11 FU030AJ4
B09 FU066AK4
B11 FU066AS4
C09 FU066AU4
C11 FU066AN4
D09 FU066AV4
E09 FU066AM4
E11 FU066AR4

L2 DOUBLE CARD
L3 5804270 4270

FU025 AA AB AC AD AE AF
AH AJ AK AM AN AP
BA BB BC BD BE BF
BG BH BJ BK BL BM
BN BP CB CC
FU021 DA DB DC DE DF FA
HA JA KA LA

UNUSED PORTIONS

M

M1 CONNECTOR
A11 FU066AA4
B09 FU066AT4
B11 FU066AQ4
C09 FU066AM4
C11 FU056AC4
E09 FU066AE4
E11 FU066AG4

M2 DOUBLE CARD
M3 5806261 6261

FU066 AA AB AC AD AE AF
AG AH AJ AK
FU060 AL AM AN AP AQ AR
AS
FU066 C1 C2 C3 C4 C5 C6
C7 C9 CD

UNUSED PORTIONS

B

M4 SINGLE CARD 2X8S
5800720 0720

FU028 AA AB AC AD AE AF
AG AH AM AN AP AQ
AR

UNUSED PORTIONS

B C D E F G H J K
L M N P Q S

N1 CONNECTOR
A09 FU066AF4
A11 FU066AB4

N2 CONNECTOR
B02 FU026AN4
B03 FU026AM4
B04 FU026BC4
B05 FU026BB4
B06 FU020AH4
B07 FU025BA4
B08 FU025BB4
B09 FU021BB4
B10 FU025AZ4
D02 FU026BD4
D04 FU026AL4
D05 FU026AK4
D06 FU026BA4
D07 FU066AV4
D11 FU090BD4
D13 FU066AW4

N3 CONNECTOR
B02 FU020AQ4
B03 FU020AR4
B04 FU020AS4
B05 FU020AT4
B07 FU021AU4
B08 FU021AV4
B09 FU021AW4
B10 FU021BA4
B12 FU021AZ4
B13 FU021AX4
D02 FU025CH4
D05 FU025CM4
D06 FU025AL4
D07 FU025AK4
D09 FU025BD4
D10 FU025AM4
D11 FU025BC4
D12 FU020AU4
D13 FU021AY4

N4 CONNECTOR
B02 FU090CG4
B03 FU050AU4
B04 FU050BA4
B05 FU056AL4
B07 FU050AY4
B08 FU050AV4
B09 FU050AZ4
B10 FU050AW4
B12 FU050AT4
B13 FU050AX4
D02 FU090AY4
D05 FU054BL4
D06 FU054BC4
D07 FU053AS4
D09 FU053BC4
D10 FU050BZ4
D12 FU056AV4
D13 FU090BT4

PLUG LIST

PART NO	ACC	TYPE	SOCKETS			TOTAL
5800720	2X8S	0720	M4			01
5804268		4268	J2			01
5804270		4270	K2	L2		02
5804273		4273	E2			01
5806261		6261	M2			01
5806264		6264	A2			01
5806269		6269	G2			01
5806270		6270	H2			01
5807221		7221	D2			01
5807325		7325	F2			01
5808338		8338	C4	D4	E4 F4	04
		CONN	A1	B1	C1 C2	17
			C3	D1	E1 F1	
			G1	J1	K1 L1	
			M1	N1	N2 N3	
			N4			
	.01U	8340	G5			01

SOCKET LISTING
DATE 07-31-67 MACH. 2314 A 1
LOG 212U BOARD 01A-A1 0
PREV. ENGR. - - 420925 0
PRES. ENGR. 07-31-67 420928 3
P.N. 2218212 000
IBM CORP. SDD BLK.

```
A1          CONNECTOR
            B02   FU081AK4
            B09   FU090CA4
            B12   FU073AB4
            B13   FU093AF4
            D11   FU093AG4
            D12   FU093AK4
            D13   FU093AB2
================================
A2          CONNECTOR
            B02   FU066AL4
            B03   FU030AJ4
            B04   FU066AS4
            B05   FU066AN4
            B07   FU066AR4
            B08   FU066AQ4
            B09   FU066AG4
            B10   FU066AC4
            B12   FU066AG4
            B13   FU066AB4
            D02   FU066AP4
            D04   FU066AK4
            D05   FU066AU4
            D06   FU066AV4
            D07   FU066AM4
            D09   FU066AT4
            D10   FU066AH4
            D12   FU066AE4
            D13   FU066AF4
================================
B1          SINGLE CARD
                  6846

      FU081 AA AB
      FU093 BA
      FU073 CA DA
================================
C1          DOUBLE CARD
C2          5806268 6268

      FU069 AA AB AC AD AE AF
            AG AH AJ AK
      FU093 AL AM BA

            UNUSED PORTIONS

            C
================================
D1          SINGLE CARD
                  6636

      FU081 AE BA
================================
E1          DOUBLE CARD
E2          5806277 6277

      FU073 AA AB AD AF AG BA
            BB
      FU093 BE BF

            UNUSED PORTIONS

            C
================================
F1          DOUBLE CARD
F2          5807332 7332

      FU076 01
      FU077 01
      FU076 02
      FU077 02
      FU076 03
      FU077 03
      FU076 04
      FU077 04
      FU076 05
      FU077 13
      FU076 19 20 21 22 23
      FU077 27 28 29 30
      FU076 36
      FU077 37
      FU076 38
      FU077 41
================================
```

A2001

PLUG LIST

PART_NO_ACC	TYPE	SOCKETS	TOTAL
5806268	6268	C1	01
5806277	6277	E1	01
5807332	7332	F1	01
	6836	D1	01
	6846	B1	01
	CONN	A1 A2	02

SOCKET LISTING
DATE 06-07-67 MACH. 2314

LOC 158F BOARD 010-A2
PREV. ENGR. 10-17-66 420832
PRES. ENGR. 07-06-67 420927
P.N. 2218218 SDD
IBM CORP. SDD BLK.

A2001000

```
A1          CONNECTOR
            B02   FL081AK4
            B09   FL090CA4
            B12   FL073AB4
            B13   FL093AF4
            D11   FL093AC4
            D12   FL093AK4
            D13   FL093AB2
-------------------------------------------
A2          CONNECTOR
            B02   FL066AL4
            B03   FL030AJ4
            B04   FL066AS4
            B05   FL066AN4
            B07   FL066AR4
            B08   FL066AA4
            B09   FL066AQ4
            B10   FL066AC4
            B12   FL066AG4
            B13   FL066AB4
            D02   FL066AP4
            D04   FL066AK4
            D05   FL066AU4
            D06   FL066AV4
            D07   FL066AM4
            D09   FL066AT4
            D10   FL066AH4
            D12   FL066AE4
            D13   FL066AF4
*******************************************
B1          SINGLE CARD
                  6846

      FL081 AA AB
      FL093 BA
      FL073 CA DA
*******************************************
C1          DOUBLE CARD
C2          5806268 6268

      FL069 AA AB AC AD AE AF
            AG AH AJ AK
      FL093 AL AM BA

            UNUSED PORTIONS

            C
*******************************************
D1          SINGLE CARD
                  6836

      FL081 AE BA
*******************************************
E1          DOUBLE CARD
E2          5806277 6277

      FL073 AA AB AD AF AG BA
            BB
      FL093 BE BF

            UNUSED PORTIONS

            C
*******************************************
F1          DOUBLE CARD
F2          5807332 7332

      FL076 01
      FL077 01
      FL076 02
      FL077 02
      FL076 03
      FL077 03
      FL076 04
      FL077 04
      FL076 05
      FL077 13
      FL076 19 20 21 22 23
      FL077 27 28 29 30
      FL076 36
      FL077 37
      FL076 38
      FL077 41
*******************************************
```

PLUG LIST

PART NO	ACC	TYPE	SOCKETS	TOTAL
5806268		6268	C1	01
5806277		6277	E1	01
5807332		7332	F1	01
		6836	D1	01
		6846	B1	01
		CONN	A1 A2	02

SOCKET LISTING
DATE 06-07-67 MACH. 2314
LOG 158G BOARD 01D-A2
PREV. ENGR. 10-17-66 420832
PRES. ENGR. 07-06-67 420927
P.N. 2218214 SDD
IBM CORP. SDD BLK.

A 2 0 0 3 0 0 0

80.

INITIAL SEEK

13 -INHIBIT D62

-2.5(+1.5)FILE BUS 0
WF002 1
WF002 2
WF002 3
WF002 4
WF002 5
WF002 6
WF002 7
WF002

+HEAD SELECT SAFE 65 C15

73 -HAR RESET D47

77 -FILE UNSAFE LATCH C51

-2.5(+1.5)CONTROL D12
-2.5(+1.5) WF002 R13 SET CYLINDER J13
-2.5(+1.5) WF002 R14 SET HEAD+DIRECTION B07
-2.5(+1.5) WF002 R15 SET DIFFERENCE D06
-2.5(+1.5) WF002 R16 MOD SELECT B10
WF002 R17

97 -GATED CYLINDER PULSE D68

CYL ADR REG

DIFFERENCE COUNTER

HEAD ADDRESS REGISTER

BOARD A2

C123, D123 + INITIAL SEEK LATCH 11
-CYLINDER ADDR REG 128 LATCH

WF002-2.5(+1.5)CYL ADR REG 1
WF002 2
WF002 4
WF002 8
WF002 16
WF002 32
WF002 64
WF002 128

B02 -READ X0
D02 -READ X1
+SELECTED READ GATE
D10 -WRITE X0
B03 -WRITE X1
C99 +SELECT WRITE GATE 59
+SELECT WRITE GATE
C07 -ERASE X0
D04 -ERASE X1

+1.5 (0)
UNSAFE INHIBIT WRITE

D115 -SELECTED SET CYLINDER 76
C46 -SELECTED WRITE GATE 77
C43 -SELECTED READ GATE 78
D128 -SELECTED SEEK START 79
C47 -SELECTED ERASE GATE 81
C25 -HEAD SELECT 82
D26 -RETURN TO 000 83
D45 -READ GATE 84
C90 +SELECTED SET HEAD 86
D113 +A128 FILE BUS 0 87
C60 +A64 FILE BUS 1 89
D9 -MOD SELECT 91
C167 +MOD SELECT 94
B05 IND
B12 D166 +INTERMEDIATE AT 27 107
G02 D154 +SLOW AT 3 111
J02 D138 -STOP 115
D54 +D1 117
D51 +D NOT 2 119
D14 -SELECTED END OF CYLINDER 127
-MORE THAN ONE Y

CE BOX -GND WR.GATE
CE BOX -GND ER.GATE

R 1 L2/L6
R 2 L2/L6
R 3 K2/K6
R 4 K2/K6
R 5 M4/M5 D13
R 6 M4/M5 D12
R 7 M4/M5 D10
R 8 M4/M5 D09
R 9 M4/M5 D06
R10 M4/M5 D05
R11 M4/M5 D04
R12 M4/M5 D02
R13 M4/M5 B08
R14 M4/M5 B07
R15 M4/M5 B03
R16 M4/M5 B04
R17 M4/M5 B05
R18 J2/J6
R19 J2/J6

LOAD RESISTORS

DATE	EC NUMBER	DATE	EC NUMBER	FILE I/O, C.A.A. & H.A.D.
MAR 68	422947			
17JUN68	424000			DATE P/N 2367935
				TYPE
				FD101

PUNCH 34 HOLES THIS EDGE

INSIDE TRACK COMPENSATION

-CYL ADDR REG 128 LATCH D13 AR E1 B07 +3(-20) INSIDE READ

-36(+30) -READ X0

-READ X0 B03 AR B1 B13

-READ X1 D04 AR B1 J02 36(+30) -READ X1

+SELECTED READ GATE

-WRITE X0 B08 J09 A E1 B13

-WRITE X1 D07 J09 A E1 D12

+1.5 (0) UNSAFE INHIBIT WRITE

I.W. X0 -28(+0)

IW X1 -28(+0)

D02 B02 A D1

ANY WRITE SPEC E1 G02

TWO WRITE SPEC E1 G03

WRITE FLIP FLOP FF D1 B04 B09

D07 B05 A F1 D05 A F1 D07 A F1

D06 B05 A F1 D05 A F1 D06 A F1

OR B08 OR F1 OR B07 OR F1 OR OR D07 +3 TO +6 PP AC

AC SIGNAL DETECTOR SPEC B1 D13 D07 C96 -AC WRITE 23

C107 +ANY WRITE CURRENT 34

B02 A F1 B02 A F1 B12 OR F1 B13

D10 A F1 D10 A F1 OR F1 D13

G02 G03 AR DF D1 G13 J13 G13 G09 AR DF B1 G07 T J07 T OR B1

D05 A B1 B02 +WRITE DATA WF002 +READ DATA 51

+SELECT WRITE GATE

-ERASE X0 D02 AR E1 B12 +1(+6) -ERASE X0 B04 -36(+6)

-ERASE X1 B05 AR E1 D09 +1(+6) -ERASE X1 J04 -36(+6)

ANY ERASE B04 SPEC J13 J04 E1 J11

TWO ERASE B04 SPEC G09 J04 E1

D10 A C1 B09 B08

B04 OR C1 B03 D09

+ERASE C116 CURRENT SAFE 76

+ANY ERASE C114 CURRENT 78

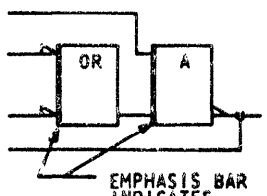
C72 +MULTIPLE SEL 82

NOTES:

INDICATION OF LINES WHICH LEAVE THE ALD PAGES BUT REMAIN WITHIN THE FILE STORAGE UNIT (SHOWN ON ZU AND ZL PAGES)

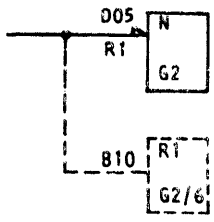
INDICATION OF LINES WHICH CONNECT TO THE FILE CONTROL UNIT (THROUGH THE WF PAGES)

T = TEST POINT
IND = CE INDICATOR LIGHT BOX



EMPHASIS BAR INDICATES A LATCH CONFIGURATION

LOAD RESISTOR LOCATION EXAMPLE: R1 G2/G6 B10

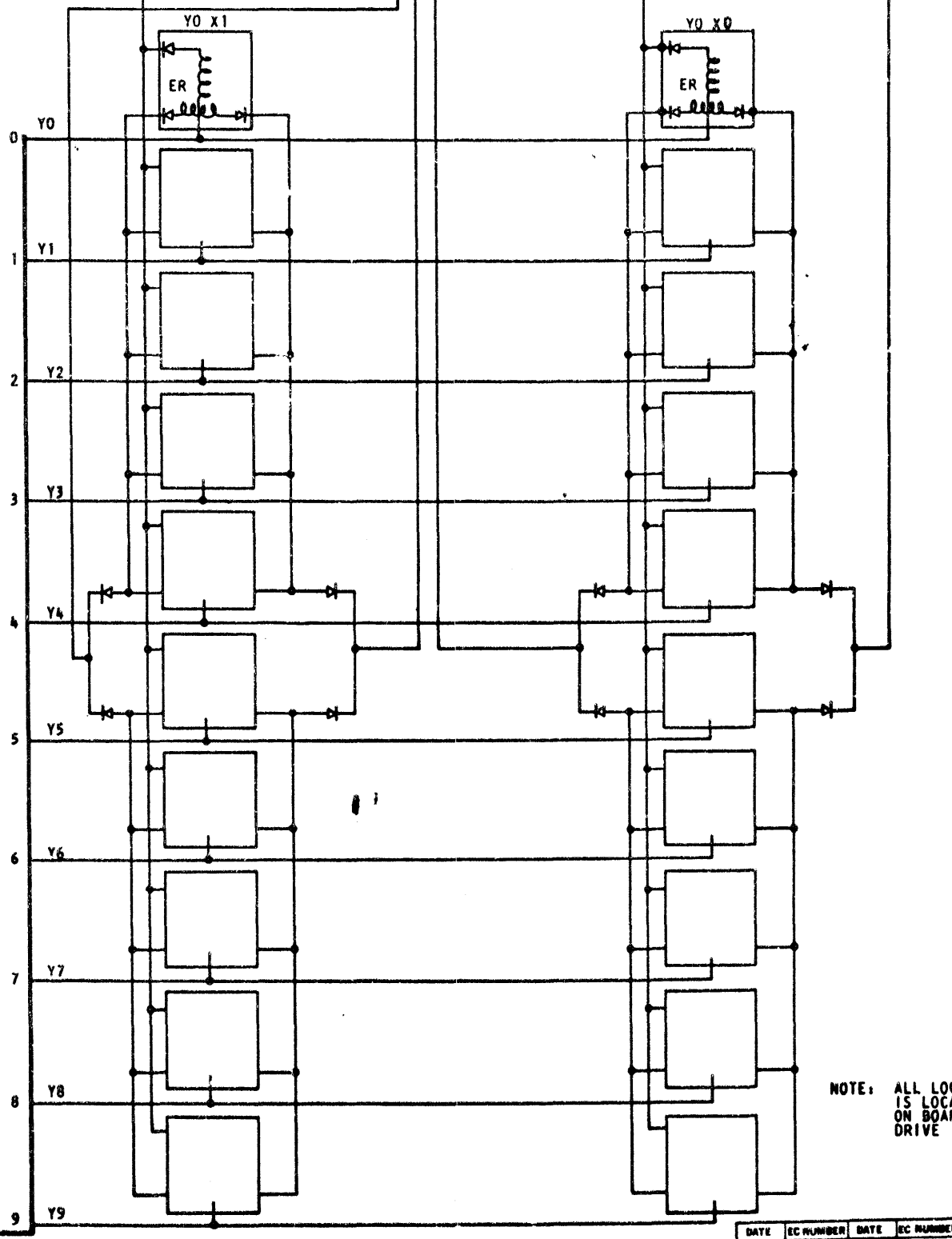


+MORE THAN ONE Y

LOCATION INFORMATION

ROW 2 AND ROW 6 CARDS — N D2 — ROW 2 LOCATION IS SHOWN, ADD 4 TO OBTAIN LOCATION FOR LOWER FILE UNIT CIRCUITRY (FL PAGES)

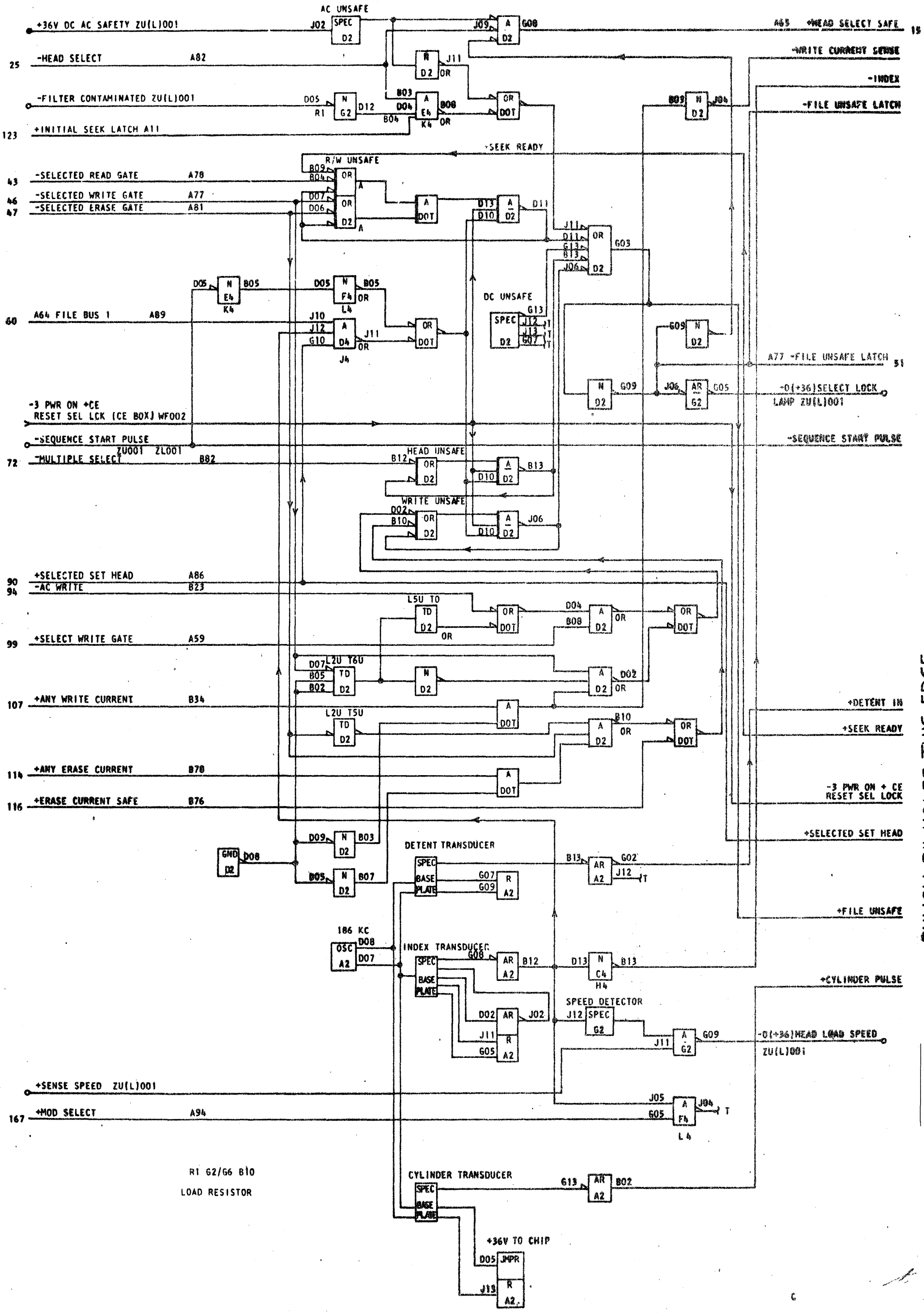
ROW 4 CARDS — OR F4 L4 — LOCATION OF THIS CARD IN UPPER FILE UNIT CIRCUITRY (FU PAGES); LOCATION OF THIS CARD IN LOWER FILE UNIT CIRCUITRY (FL PAGES)



NOTE: ALL LOGIC ON THIS PAGE IS LOCATED PHYSICALLY ON BOARD A2 OF THE FILE DRIVE

DATE	EC NUMBER	DATE	EC NUMBER	READ/WRITE CIRCUITS
MARCH	422947			DATE P/N 2357905
				TYPE
				IBM FD102

PUNCH 34 HOLES THIS EDGE



DATE	EC NUMBER	DATE	EC NUMBER	SAFETY CIRCUITS
MAR68	422947			
17JUN68	424030			DATE P/N 2357987 TYPE
				IBM FD103

PUNCH 34 HOLES THIS EDGE

9 -MOD SELECT A91

14 -SELECTED END OF CYLINDER A127

-WRITE CURRENT SENSE

-INDEX

-FILE UNSAFE LATCH

26 -RETURN TO 000 A83

31 +ON LINE ZU(L)001

41 -0(+3) COVER OFF ZU(L)001

45 -READ GATE A84

51 +D NOT 2 A119

54 +D1 A117

-SEQUENCE START PULSE

+DRIVE ON LINE

+DETENT IN

+SEEK READY

-3 PWR ON +CE RESET SEL LOCK

113 +A128 FILE BUS 0 A87

115 -SELECTED SET CYLINDER

120 +3(-2) RESET FORWARD ZU(L)001

+FILE UNSAFE

123 +INITIAL SEEK LATCH A11

128 -SELECTED SEEK START A79

+ CYLINDER PULSE

138 - STOP A115

+DRIVE ON LINE

154 +SLOW AT 3 A111

166 +INTERMEDIATE AT 27 A107

+36V GROUND YB001

-2.5(+1.5) D13 WF002 SELECTED MODULE

-2.5(+1.5)SELECTED G04 WF002 END OF CYLINDER

-2.5(+1.5)WRITE G09 WF002 CURRENT SENSE

-2.5(+1.5) J12 WF002 SELECTED INDEX

-2.5(+1.5) G05 WF002 FILE UNSAFE

-2.5(+1.5)SELECTED J11 WF002 SEEK INCOMPLETE

-2.5(+1.5)SELECTED G02 WF002 FILE BUSY

-2.5(+1.5)SELECTED G03 WF002 PACK CHANGE

-2.5(+1.5)SELECTED G12 WF002 ON LINE

-2.5(1.5) WF002 GATED ATTENTION

47 B08 AR D10 A73 -HAR RESET OR

62 A13 -INHIBIT

68 B10 A97 -GATED CYLINDER PULSE

-0(+36) ACCESS ZU(L)001 READY LIGHT

-0(+36) ZU(L)003 FORWARD HOLD

-0(+36) ZU(L)003 FORWARD PICK

-0(+36) ZU(L)003 DETENT HOLD

-0(+36) ZU(L)003 DETENT PICK

-0(+36) ZU(L)003 SLOW AT 3 HOLD

-0(+36) ZU(L)003 SLOW AT 3 PICK

-0(+36) INTERMEDIATE ZU(L)003 AT 27 HOLD

-0(+36) INTERMEDIATE ZU(L)003 AT 27 PICK

PACK CHG

GATED ON LINE

INHIBIT

DETENT

FORWARD DIRECTION

FIRST SEEK

SEEK INC

- SEEK READY

ATTENTION

-FIRST SEEK

-INHIBIT

FWD SOL

LO T.1.6 M

600M

300M

2.5 M

4U

GND F4D08

R1 F2/F6 J02 LOAD RESISTOR

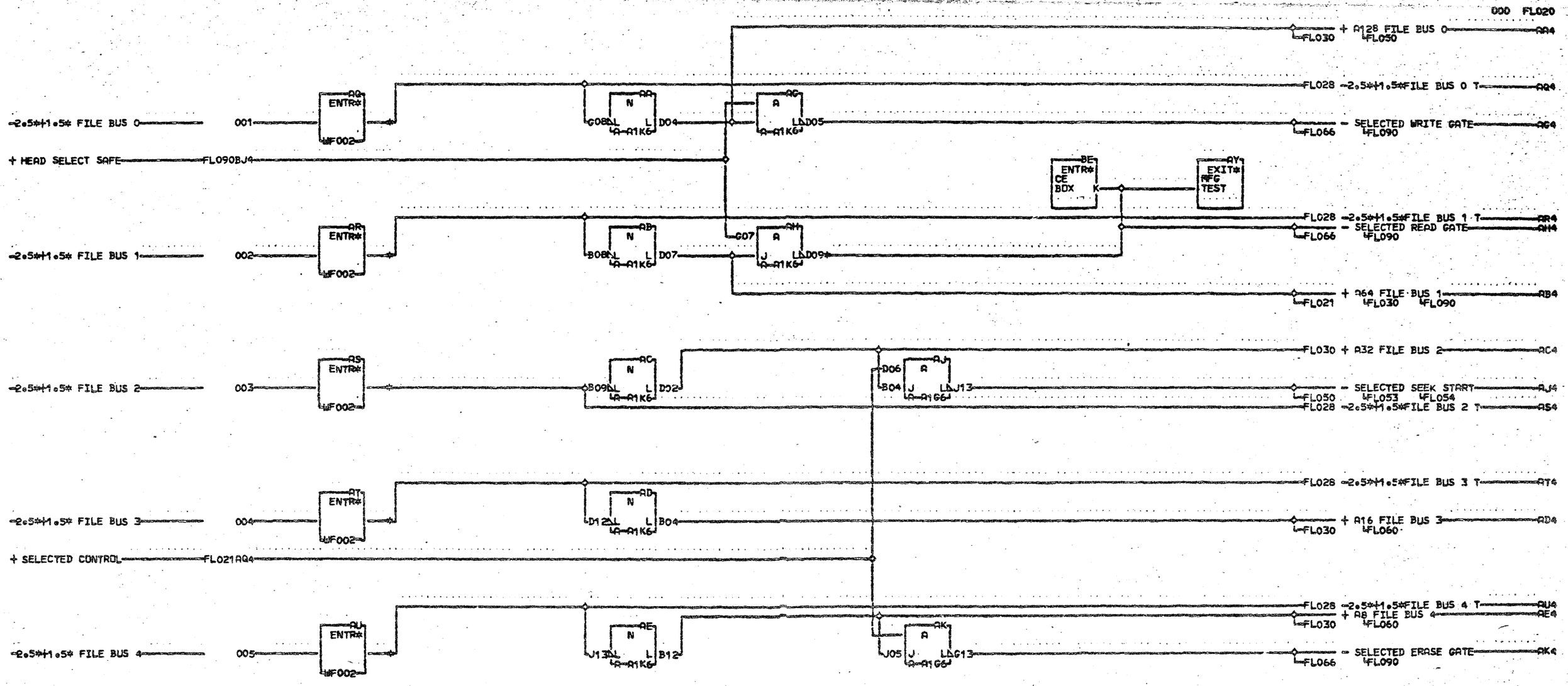
DATE	EC NUMBER	DATE	EC NUMBER
MAR 68	422947		

ACCESS TIMING & SOLENOID DRIVERS

DATE P/N 2267928

TYPE

IBM FD104



FL020

AH4 A-A1C8D04
01 A-A1N6B06
AQ4 A-A1N7B02
AR4 A-A1N7B03
AS4 A-A1N7B04
AT4 A-A1N7B05
AU4 A-A1N7D12

LOC.	TYPE
A-A1G6	6269
A-A1K6	4270

LINE RECEIVERS

E.C. HISTORY
416035
416044
416080

DATE LAST EC
06-08-66 416091

MACH. 2314
FRAME 01
IBM CORP. GPD
P.N. 2218220

FL020 Rev 000

- WRITE CURRENT SENSE — FL090BV4 — J07
- INDEX — FL056BB4 — J09, G13
- PACK CHANGE — FL054AK4
- FILE BUSY — FL053BX4 — J04
- GATED ATTENTION — FL054AW4 — B13
- GATED ON LINE — FL054BD4 — J10
- SELECTED END OF CYLINDER — FL060BE4 — D11
- SEEK INCOMPLETE — FL053AG4 — J06
- MOD SELECT — FL021AS4
- FILE UNSAFE — FL090AV2 — J02
+ MOD SELECT — FL021AF4 — B05

S06SDLA G09* (CH) → WF002 -2.5*+1.5* SELECTED PACK CHANG—BA4
S06SDLA G03* (BA) → WF002 -2.5*+1.5* WRITE CURRENT SENSE—CH4
S06SDLA J12* (AK) → WF002 -2.5*+1.5 SELECTED INDEX—AK4
S10SI A-A1K6 (CL) → S06SDLA D13* (CR) → WF002 -2.5*+1.5* GATED ATTENTION—CR4
S06SDLA G02* (BB) → WF002 -2.5*+1.5* SELECTED FILE BUSY—BB4
S06SDLA G12* (AL) → WF002 -2.5*+1.5* SELECTED ON LINE—AL4
S06SDLA G04* (BC) → WF002 -2.5*+1.5* SELECTED END OF CYL—BC4
S06SDLA J11* (AF) → WF002 -2.5*+1.5*SELECTED SEEK INCOMP—AR4
S06SDLA G05* (BD) → WF002 -2.5*+1.5* FILE UNSAFE—BD4
CG N H K A-A1E6 → FL099 - MODULE SELECT LAMP—CG4
S10SI A-A1L6 (AQ) → S06SDLA D13* (AZ) → WF002 -2.5*+1.5* SELECTED MODULE—AZ4

FL021AS4 RESISTORS A-A1L6 A-A1L6
AK4 A-A1N7D07
AL4 A-A1N7D06
AR4 A-A1N7D10
AZ4 A-A1N6B10
BA4 A-A1N6B07
BB4 A-A1N6B08
BC4 A-A1N7D11
BD4 A-A1N7D09
CH4 A-A1N7D02
CR4 A-A1N7D05

LOC.	TYPE
A-A1E6	4273
A-A1K6	4270
A-A1L6	4270

LINE DRIVERS

E.C.—HISTORY—	
416035	
416044	
416080	
416069	
DATE LAST EC	
07-05-66 416097	

RACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218222

FL025 000

- CYLINDER ADDR REG 128 — FL030AJ4
- CYLINDER ADDR REG 64 — FL030AN4
- INHIBIT — FL053AE2
- SELECTED SET CYLINDER — FL030AA4
- CYLINDER ADDR REG 32 — FL030AK4
- CYLINDER ADDR REG 16 — FL030AP4
+ ROD SELECT LINE 1 — FL021AP4
- CYLINDER ADDR REG 8 — FL030AL4
- CYLINDER ADDR REG 4 — FL030AR4
- CYLINDER ADDR REG 2 — FL030AR4
- CYLINDER ADDR REG 1 — FL030AS4

INITIAL SEEK (BE) — LATCH (BF)

WF002 -2.5*+1.5* CYL ADDR REG 128 — BA4
WF002 -2.5*+1.5* CYL ADDR REG 64 — AK4
WF002 -2.5*+1.5* CYL ADDR REG 32 — BB4
WF002 -2.5*+1.5* CYL ADDR REG 16 — AL4
WF002 -2.5*+1.5* CYLINDER ADDR REG 8 — BC4
WF002 -2.5*+1.5* CYLINDER ADDR REG 4 — AR4
WF002 -2.5*+1.5* CYLINDER ADDR REG 2 — BD4
WF002 -2.5*+1.5* CYLINDER ADDR REG 1 — AN4

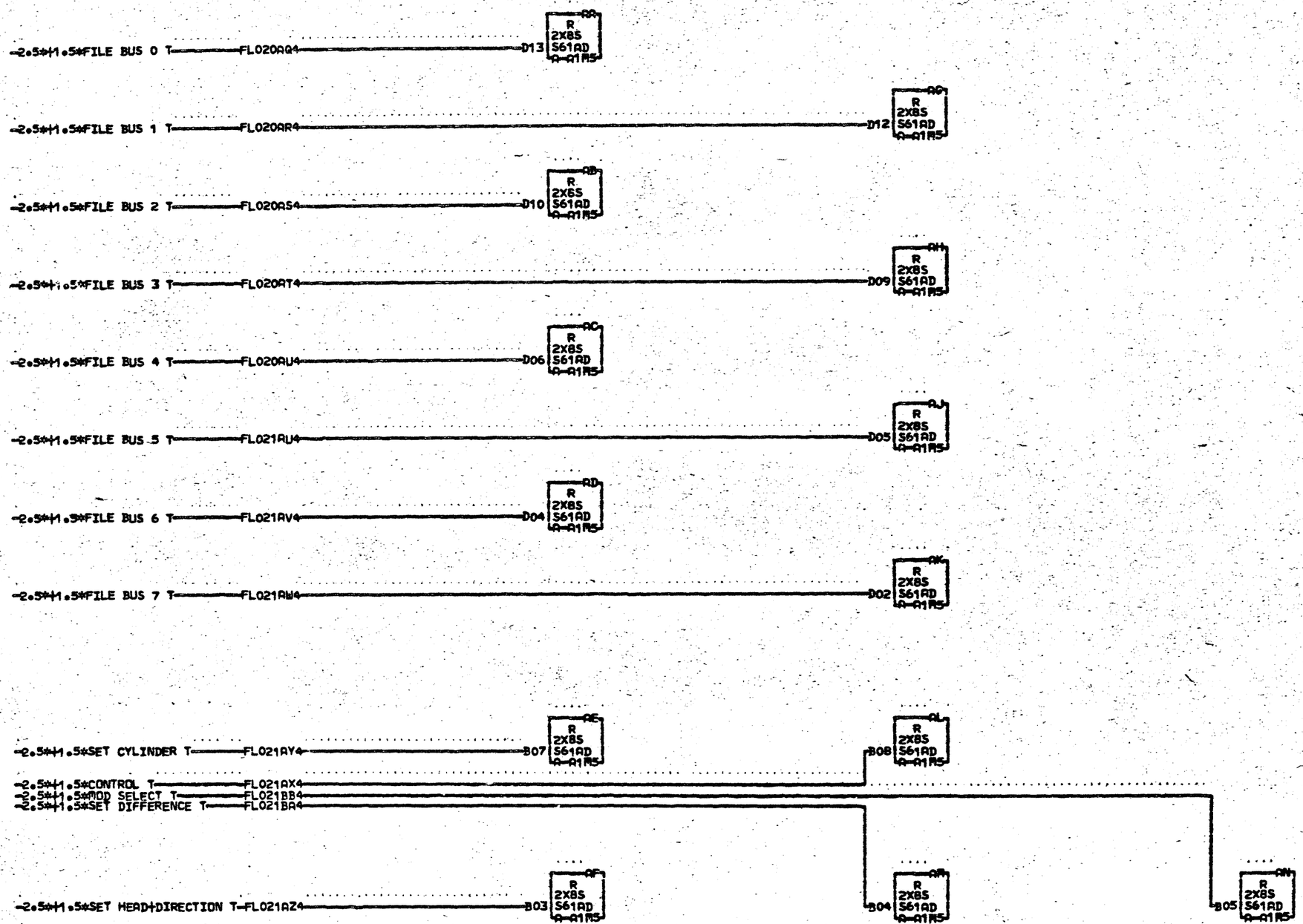
FL099 - INITIAL SEEK LATCH — BF4
FL050 + INITIAL SEEK LATCH — BE4
FL090

AK4 A-A1N6D05 A-A1K6
AL4 A-A1N6D04 A-A1K6
AR4 A-A1N6B03
AN4 A-A1N6B02
BA4 A-A1N6D06
BB4 A-A1N6B05
BC4 A-A1N6B04
BD4 A-A1N6D02
REGISTORS

LDC. TYPE
A-A1G6 6269
A-A1K4 8338
A-A1K6 4270

LINE DRIVERS		
E.C. HISTORY		MACH. 2314
416035	420852	
416044	420925	FRAME 01
416097	420928	
420843		IBM CORP. GPD
DATE	LAST EC	
06-07-68	424000	P.N. 2218223

FL026 000



NOTE
THE 2X8 SWITCH IS
AN OPTIONAL FEATURE

LOC. TYPE
A-A1A5 0720

TERMINATOR 2X8 SWITCH

E.C. HISTORY
416080

DATE LAST EC
06-04-66 416091

MACH.2314
FRAME 01
IBM CORP. SDD
P.N. 2218264

FL028
000

000 FL030

+ A128 FILE BUS 0 — FL020AA4
+ A64 FILE BUS 1 — FL020AB4
+ A32 FILE BUS 2 — FL020AC4
+ A16 FILE BUS 3 — FL020AD4
+ A8 FILE BUS 4 — FL020AE4
+ A4 FILE BUS 5 — FL021AA4
+ A2 FILE BUS 6 — FL021AB4
+ A1 FILE BUS 7 — FL021AC4
+ SET CYLINDER — FL021AK4
+ MOD SELECT LINE 1 — FL021AP4
+ SET DIFFERENCE — FL021AL4

AJ PH D09 J J L J05 A-A1J6
AK PH B10 J L B13 A-A1J6
AL PH J04 J L J06 A-A1J6
AM PH B09 J L D13 A-A1J6
AP PH D10 J L D12 A-A1J6
AR PH J09 J L G03 A-A1J6
AR PH J02 J L G05 A-A1J6
AS PH G02 J L G04 A-A1J6

AA A J LL B03 B04 A-A1J6
AE A J LL B07 D07 A-A1J6

AT A LL G13 A-A1J6
AU A LL G12 A-A1J6
AV A LL G09 A-A1J6
AW A LL G07 A-A1J6
AX A LL J13 A-A1J6
AY A LL J12 A-A1J6
AZ A LL G08 A-A1J6
BA A LL G10 A-A1J6

FL026 — CYLINDER ADDR REG 128 — AJ4 (FL073 FL099)
FL040 — RESETD128 — AT4
FL040 — RESETD64 — AX4
FL026 — CYLINDER ADDR REG 32 — AK4 (FL099)
FL026 — CYLINDER ADDR REG 64 — AM4 (FL099)
FL040 — RESETD32 — AU4
FL040 — RESETD16 — AY4
FL026 — CYLINDER ADDR REG 16 — AP4 (FL099)
FL026 — SELECTED SET CYLINDER — AA4 (FL050)
FL026 — CYLINDER ADDR REG 8 — AL4 (FL099)
FL040 — RESETD8 — AV4
FL040 — RESETD4 — AZ4
FL026 — CYLINDER ADDR REG 2 — AR4 (FL099)
FL026 — CYLINDER ADDR REG 4 — AR4 (FL099)
FL040 — RESETD2 — AW4
FL040 — RESETD1 — BA4
FL026 — CYLINDER ADDR REG 1 — AS4 (FL099)

AJ4 A-A1L8A06

LOC. TYPE
A-A1J6 4268

CYL ADDR REG + DIFF RESET

E.C. HISTORY
416035

DATE LAST EC
01-12-66 416044

MACH. 2314
FRAME 01
IBM CORP. GPD
P.N. 2218224

FL030 000

FL030 000

- GATED CYLINDER PULSE — FL053AV4
- RESETD16 — FL030AY4
- RESETD1 — FL030BA4
- RESETD2 — FL030AW4
- RESETD32 — FL030AU4
- RESETD4 — FL030AZ4
- RESETD64 — FL030AX4
- RESETD8 — FL030AV4
- INHIBIT — FL053AE2
+ SET CYLINDER — FL021AK4
+ MOD SELECT LINE 1 — FL021AP4
- RESETD128 — FL030AT4

TRIGGER AA · ONE AK · J11 · J12 · NS03SG · J09 · AB · AL · J06 · TWO AM · G12 · J10 · AC · AN · G05 · AD · FOUR AP · J13 · G08 · AE · AR · G09 · AF · EIGHT AS · G13 · J07 · AG · AT · G10 · AH · AJ · J04 · G07 · AW · D12 · D11 · D13 · J02 · AX · D05 · G03 · D10 · J05 · G02 · TRIGGER AY · SIXTEEN BG · D09 · D06 · AZ · BH · B02 · TRIGGER BA · THIRTYTWO BJ · B09 · B05 · BR · D04 · BB · BK · B07 · TRIGGER BC · SIXTYFOUR BL · B08 · B10 · BT · B12 · B13 · BD · BM · B04 · TRIGGER BE · 128 BN · D07 · BF · BP · D02

A A* NS03SG A-A1H6 · A J L LD A-A1H6 · A DR L A-A1H6

FL050 — STOP — AW4

FL050 + SLOW AT 3 — AX4
FL053
FL099 + D 16 — BH4
FL053 + D NOT 2 — AR4
FL099 + D 2 — AN4
FL099 + D 1 — AL4
FL053
FL099

FL099 + D 32 — BK4

FL099 + D 8 — AT4

FL099 + D 4 — AR4

FL099 + D 64 — BR4

FL099 + D 128 — BP4

FL050 + INTERMEDIATE AT 27 — BT4

LOC. TYPE
A-A1H6 6270

DIFFERENCE COUNTER WITH DECODES
E.C. HISTORY
416035
416044
416080
DATE 07-05-66 LAST EC 416097
MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218225

FL040 000

+3*-2*RESET FORWARD — 004 — BZ ENTR* SEQ PANEL ZL001

+ A128 FILE BUS 0 — FL020AA4 — B05 — BB A J L J04

+ SELECTED SET HEAD — FL060AP4 — G04 — A-A1G6

FWD DIRECTION — BD N E L B13 — A-A1J4 — D13

LATCH — BF A J K G08 — A-A1J4 — G09 J09

FWD SOLENOID — AJ OR J02 G02 G03 — A-A1H4

LATCH — AP A J L J06 — A-A1H4 — G07 J07

- SELECTED SEEK START — FL020AJ4 — B12 — BC N E L D12 — A-A1L4

AK A J K G12 — A-A1H4 — J13 G13

NOTE 1 — AT AR * — S55SC A-A1H4K D09 — D10 D02*

FORWARD — AX AR MD* S15SH A-A1H4 — B02* — ZL003 -0*+36* FORWARD PICK — AX4

ZL003 -0*+36* FORWARD HOLD — AT4

FILE SEEK GATE — BE A J L G08 — A-A1L4 — G09 J09

AE N E L D12 — A-A1H4 — B12

BJ A J K B12 — A-A1J6 — B08 D11

BK N L B03 — A-A1K6 — B10

- STOP — FL040AW4

- SET FORWARD — FL053AQ4
- INHIBIT — FL053AE2
+ CYLINDER PULSE — FL056AT4
+ FILE UN-SAFE — FL090AR4
- SELECTED SET CYLINDER — FL030AA4
+ INITIAL SEEK LATCH — FL026BE4

+36V GND — 007 — BN ENTR* GATE TB7 YB001

AB OR J — A-A1L4 — J02 G03

AF A J L J06 — A-A1L4 — G07 J07

DETENT — AL OR J L G12 — A-A1L4 — J13 G13

LATCH — AQ A * S10SE — A-A1L4 — D07 B07 D06 B09 — B10

NOTE 1 — AU AR * — S55SC A-A1L4K D09 — D10 D02*

DETENT — AY AR MD* S15SH A-A1L4 — B02* — ZL003 -0*+36* DETENT PICK — AY4

FL053 + DETENT LATCH — AL4

FL053 - DETENT LATCH — AQ4

ZL003 -0*+36* DETENT HOLD — AU4

+36V GND — 008 — BP ENTR* GATE TB7 YB001

AC A * S03SE — A-A1G6 — J02 G02 — G07

+ FIRST SEEK COMPLETED — FL053AC4
+ SLOW AT 3 — FL040AX4
- FIRST SEEK — FL053AU4

- RETURN TO 000 — FL021AH4 — BW OR * DOT
- PLUG CHANGE — FL054AZ4

+36V GND — 009 — BQ ENTR* GATE TB7 YB001

BH AR E U B12 — A-A1G6 — B09

AG A J L J06 — A-A1K4 — J02 G02 G03

AM OR J L J06 — A-A1K4 — G07 J07

AR N E L D12 — A-A1K4 — B12

NOTE 1 — AV AR * — S55SC A-A1K4K D09 — D10 D02*

SLOW AT 3 — AZ AR MD* S15SH A-A1K4 — B02* — ZL003 -0*+36* SLOW AT 3 PICK — AZ4

ZL003 -0*+36* SLOW AT 3 HOLD — AV4

AH A J L J06 — A-A1J4 — J02 G02 G03

AN OR J L J06 — A-A1J4 — G07

AS N E L D12 — A-A1J4 — B12

NOTE 1 — AW AR * — S55SC A-A1J4K D09 — D10 D02*

INTER AT 27 — BA AR MD* S15SH A-A1J4 — B02* — ZL003 -0*+36*INTERMEDIATE AT 27 PICK — BA4

ZL003 -0*+36*INTERMEDIATE AT 27 HOLD — AW4

FL053 + DRIVE ON LINE — BH4

+ INTERMEDIATE AT 27 — FL040BT4

BY R * S61YG — A-A1F6 — J02

BU AR E U D10 — A-A1G6 — B08

FL060 - HAR RESET — BU4

+36V GND — 010 — BR ENTR* GATE TB7 YB001

NOTE 1 EXTRA PICK PULSES MAY OCCUR ON DRIVERS WHOSE SOLENOID IS ALREADY PICKED. THIS IS NORMAL AND WILL NOT CAUSE A PROBLEM.

AT4 A-A1N5B12
AU4 A-A1N5B03
AV4 A-A1N5B08
AW4 A-A1N5B10
AX4 A-A1N5B13
AY4 A-A1N5B07
AZ4 A-A1N5B09
BA4 A-A1N5B04
BZ4 A-A1N5D10

LOC.	TYPE
A-A1F6	7325
A-A1G6	6269
A-A1H4	8338
A-A1J4	8338
A-A1J6	4268
A-A1K4	8338
A-A1K6	4270
A-A1L4	8338

SOLENOID DRIVERS

E.C.	HISTORY	
416035	420832	MACH. 2314
416044	420843	FRAME 01
416080	420852	IBM CORP. GPD
416097	420925	
DATE	LAST EC	P.No. 2218226
07-18-67	420928	

FL050 000

- DETENT LATCH — FL050AQ4
- SEQUENCE START PULSE — 002
- SEQUENCE START PULSE — FL090 — BC4
- FL050 — SET FORWARD — AQ4
- GCP — FL040 — GATED CYLINDER PULSE — AV4
- FL050 + FIRST SEEK COMPLETED — AC4
- FL050 — FIRST SEEK — AU4 (FL054)
- + CYLINDER PULSE — FL056AT4
- FL026 — INHIBIT — AE2 (FL040 FL050)
- + SLOW AT 3 — FL040AX4
- + D NOT 2 — FL040AM4
- + D 1 — FL040AL4
- + DRIVE ON LINE — FL050BH4
- + DETENT LATCH — FL050AL4
- − SELECTED SEEK START — FL020AJ4
- FL025 — SEEK INCOMPLETE — AG4 (FL054)
- + DETENT IN — FL056AB2
- FL054 — SEEK READY — BW4 (FL090)
- FL025 — FILE BUSY — BX4
- + GATED ON LINE — FL054BF4
- ZL001 — 0*+36* ACCESS READY LIGHT — AS4

AS4 A-A1N5D07
BC4 A-A1N5D09

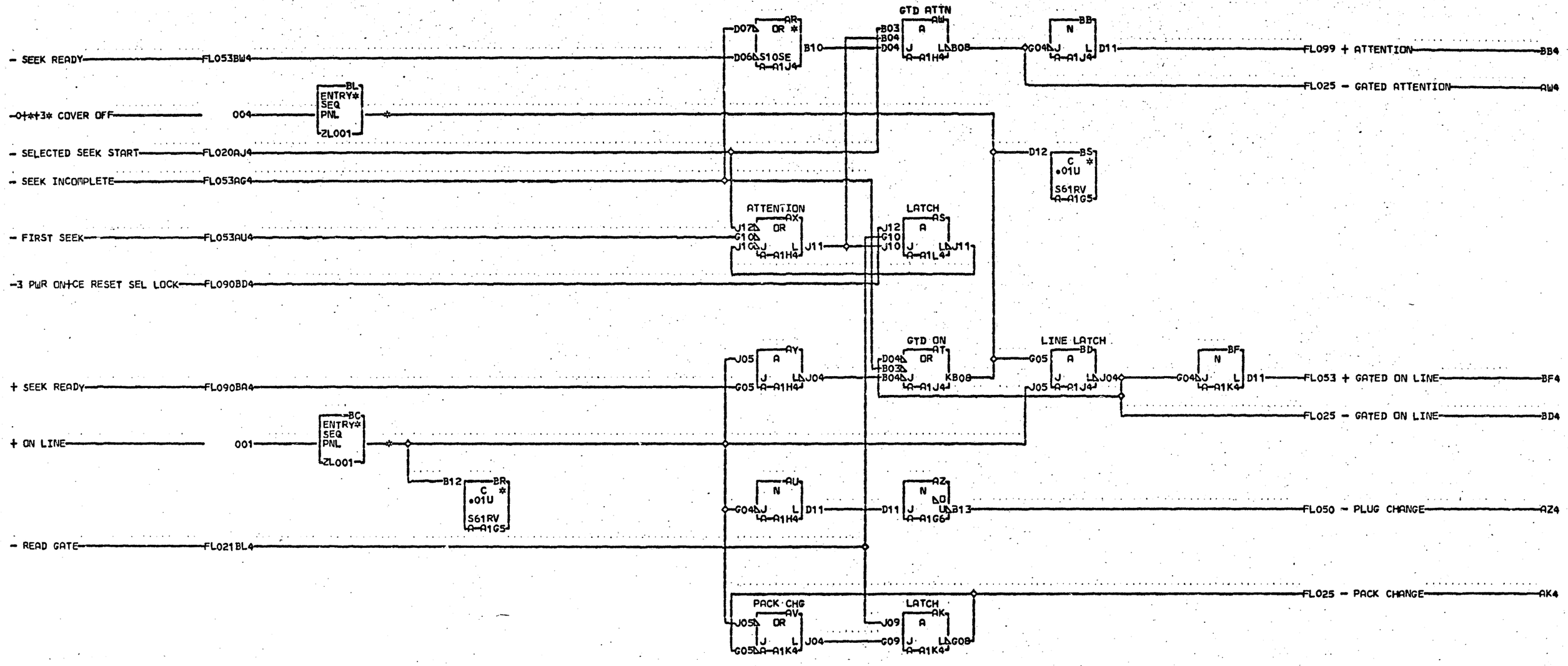
LOC.	TYPE
A-A1F6	7325
A-A1G6	6269
A-A1H4	8338
A-A1J4	8338
A-A1K4	8338

ACCESS TIMING

E.C.-HISTORY	
416035	416097
416044	420832
416080	420852
416091	420925
DATE	LAST EC
07-10-67	420928

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218227

FL053 000



BC4 A-A1N5D06
BL4 A-A1N5D05

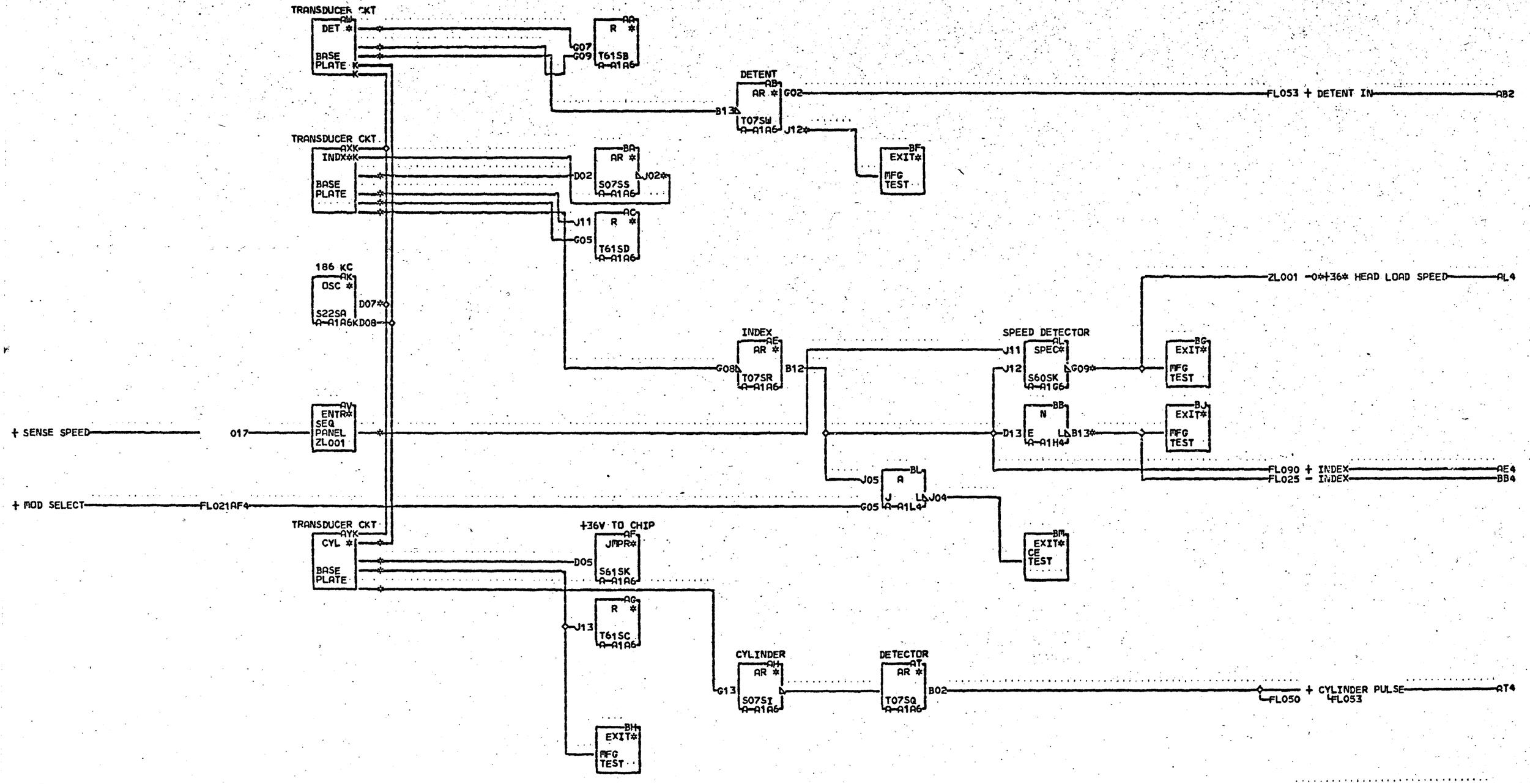
LOC.	TYPE
A-A1G5	8340
A-A1G6	6269
A-A1H4	8338
A-A1J4	8338
A-A1K4	8338
A-A1L4	8338

ON LINE AND GATED ATTENTION

E.C. HISTORY		MACH. 2314
416044	420843	
416080	420852	FRAME 01
416097	420841	
420832	420925	IBM CORP. GPD
DATE	LAST EC	P.N. 2218262
07-31-67	420928	

FL054 000

FL054 000



NOTE
IF A TRANSISTOR CAN IS
F GROUNDED ON A TRANSDUCER
L CHIP◊ THE TRANSDUCER WILL
O BE BLOWN AND A +6 OR
5 -3 VOLT LAND MAY BE
6 OPENED ON THE LARGE
CARD
000

AB6 A-A1B8B04 AW5 A-A1E8E04 AY7 A-A1E8B06
AK4 A-A1D8E04 AX4 A-A1G8A04 BA4 A-A1F8E04
01A-A1G8A06 AX6 A-A1F8B04 BB4 A-A1B8C04
01A-A1E8D04 AX7 A-A1F8C04
AL4 A-A1N5B05 AX8 A-A1F8E06
01A-A1B8B06 AY2 A-A1F8A04
AV4 A-A1N5D12 AY4 A-A1E8C04
AW2 A-A1E8E06 AY5 A-A1E8B04
AW4 A-A1F8B06 01A-A1A8E06

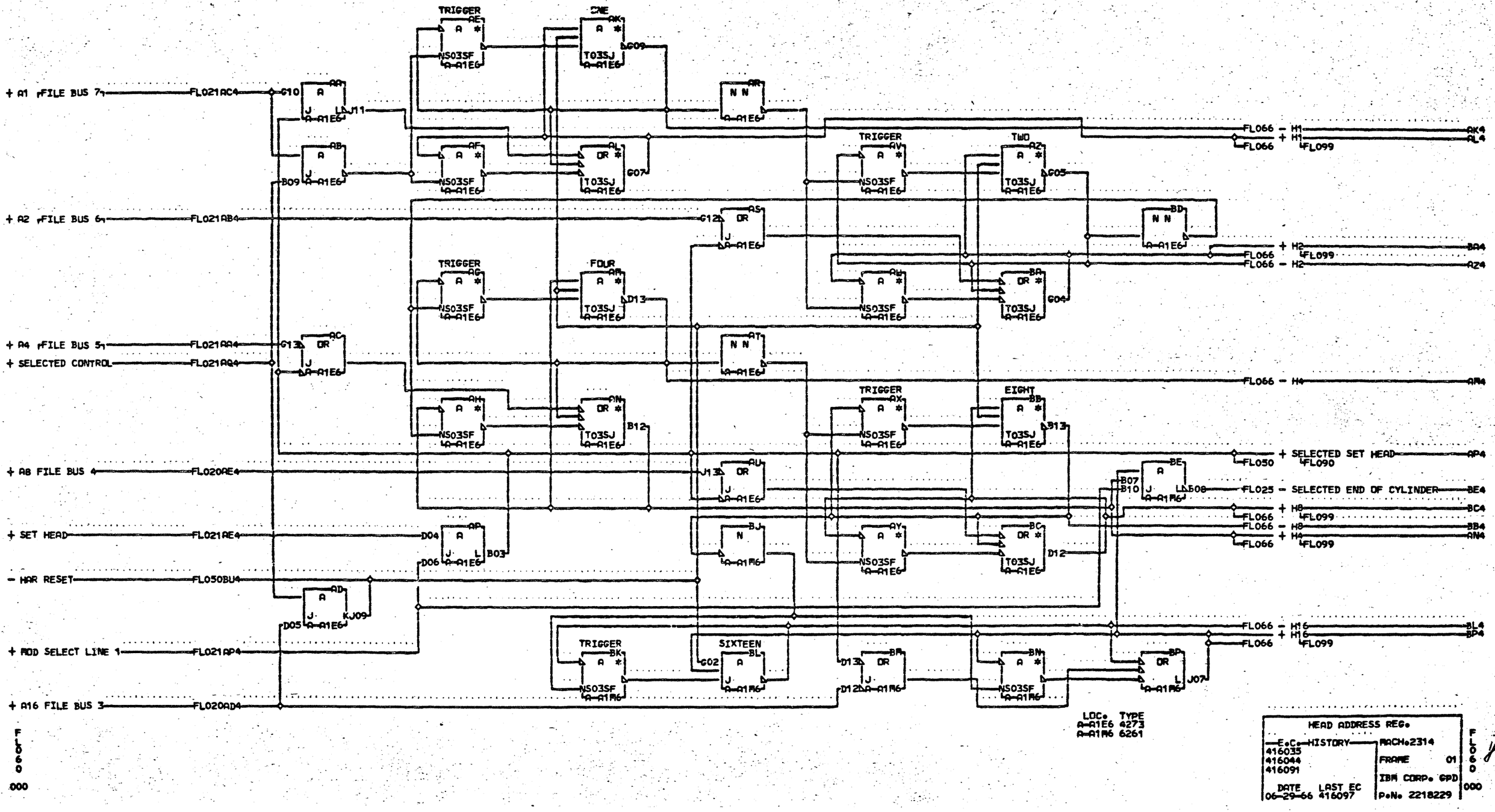
LOC.	TYPE
A-A1A6	6264
A-A1G6	6269
A-A1H4	8338
A-A1L4	8338

TRANSDUCER CIRCUIT AND SPEED DETECTOR

E.C.-HISTORY-	
416035	416097
416044	420843
416080	420852
416091	420841
DATE	LAST EC
07-10-67	420928

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218228

FLOS6 000

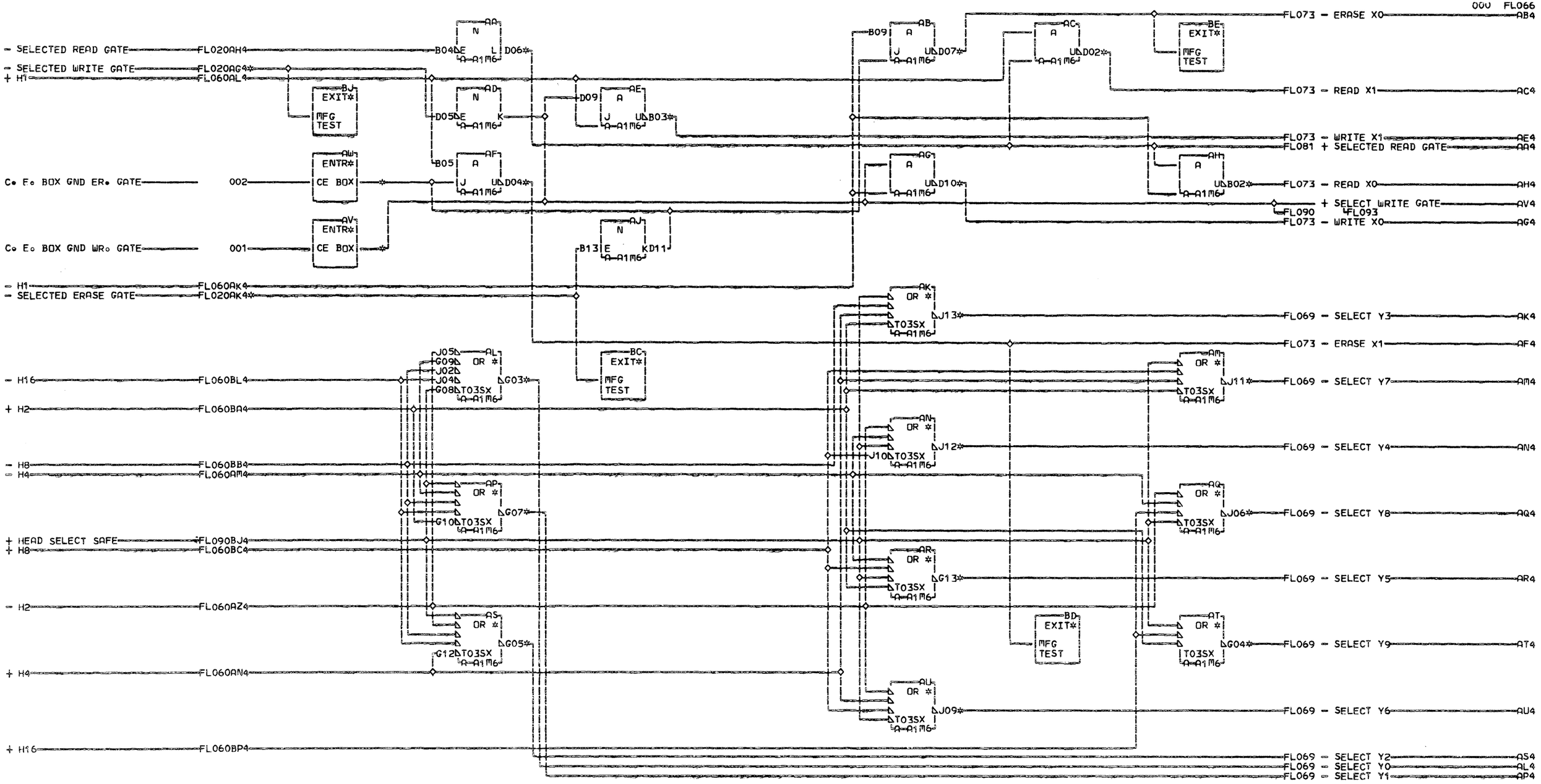


LOC. TYPE
A-A1E6 4273
A-A1M6 6261

HEAD ADDRESS REG.	
—E.C.—HISTORY—	MACH.2314
416035	
416044	FRAME 01
416091	
	IBM CORP. GPD
DATE LAST EC	P.N. 2218229
06-29-66 416097	

FL060 000

FL060 000



F
L
0
6
6

000

FL020AG4 AF4 A-A1N8A04 AQ4 A-A1M8B06
01A-A1A8E04 01A-A1D8A06 AR4 A-A1L8E06
FL020AK4 AG4 A-A1M8E06 AS4 A-A1L8A06
01A-A1B8A06 AH4 A-A1M8C04 AT4 A-A1M8B04
AA4 A-A1M8A06 AK4 A-A1L8B04 AU4 A-A1L8C04
AB4 A-A1N8A06 AL4 A-A1K8E06 AV4 A-A1N6D07
01A-A1D8A04 AM4 A-A1L8E04 01A-A1L8D04
AC4 A-A1M8C06 AN4 A-A1L8C06 AW4 A-A1N6D13
AE4 A-A1M8E04 AP4 A-A1K8E04

LOC. TYPE
A-A1M6 6261

HEAD ADD + DECODE

E.C. HISTORY	MACH. 2314
416035	
416044	FRAME 01
	IBM CORP. GPD
DATE LAST EC	P.No 2218230

F
L
0
6
6

000

SELECT Y0 — FL066AL4# — J04 — SEL * AL S40WP D-A2C1 — J05 — FL076 — +3#-36# Y0 SELECTED FL077 FL093 — AL4

SELECT Y1 — FL066AP4# — J12 — SEL * AP S40WP D-A2C1 — J10 — FL076 — +3#-36# Y1 SELECTED FL077 FL093 — AP4

SELECT Y2 — FL066AS4# — J11 — SEL * AN S40WP D-A2C1 — G07 — FL076 — +3#-36# Y2 SELECTED FL077 FL093 — AN4

SELECT Y3 — FL066AK4# — G08 — SEL * AP S40WP D-A2C1 — G13 — FL076 — +3#-36# Y3 SELECTED FL077 FL093 — AP4

SELECT Y4 — FL066AN4# — D13 — SEL * AQ S40WP D-A2C1 — J13 — FL076 — +3#-36# Y4 SELECTED FL077 FL093 — AQ4

SELECT Y5 — FL066AR4# — G03 — SEL * AS S40WP D-A2C1 — G04 — FL076 — +3#-36# Y5 SELECTED FL077 FL093 — AS4

SELECT Y6 — FL066AU4# — B02 — SEL * AR S40WP D-A2C1 — G02 — FL076 — +3#-36# Y6 SELECTED FL077 FL093 — AR4

SELECT Y7 — FL066AM4# — D02 — SEL * AT S40WP D-A2C1 — B13 — FL076 — +3#-36# Y7 SELECTED FL077 FL093 — AT4

SELECT Y8 — FL066AQ4# — J06 — SEL * AU S40WP D-A2C1 — J02 — FL076 — +3#-36# Y8 SELECTED FL077 FL093 — AU4

SELECT Y9 — FL066AT4# — G09 — SEL * AV S40WP D-A2C1 — J09 — FL076 — +3#-36# Y9 SELECTED FL077 FL093 — AV4

F L 0 6 9 000

FL066AK4 01D-A2A2D02 FL066AU4
01D-A2A2D04 FL066AQ4 01D-A2A2D05
FL066AL4 01D-A2A2B09
01D-A2A2B02 FL066AR4
FL066AM4 01D-A2A2B07
01D-A2A2D07 FL066AS4
FL066AN4 01D-A2A2B04
01D-A2A2B05 FL066AT4
FL066AP4 01D-A2A2D09

LOC. TYPE
D-A2C1 6268

Y SELECT 0-9

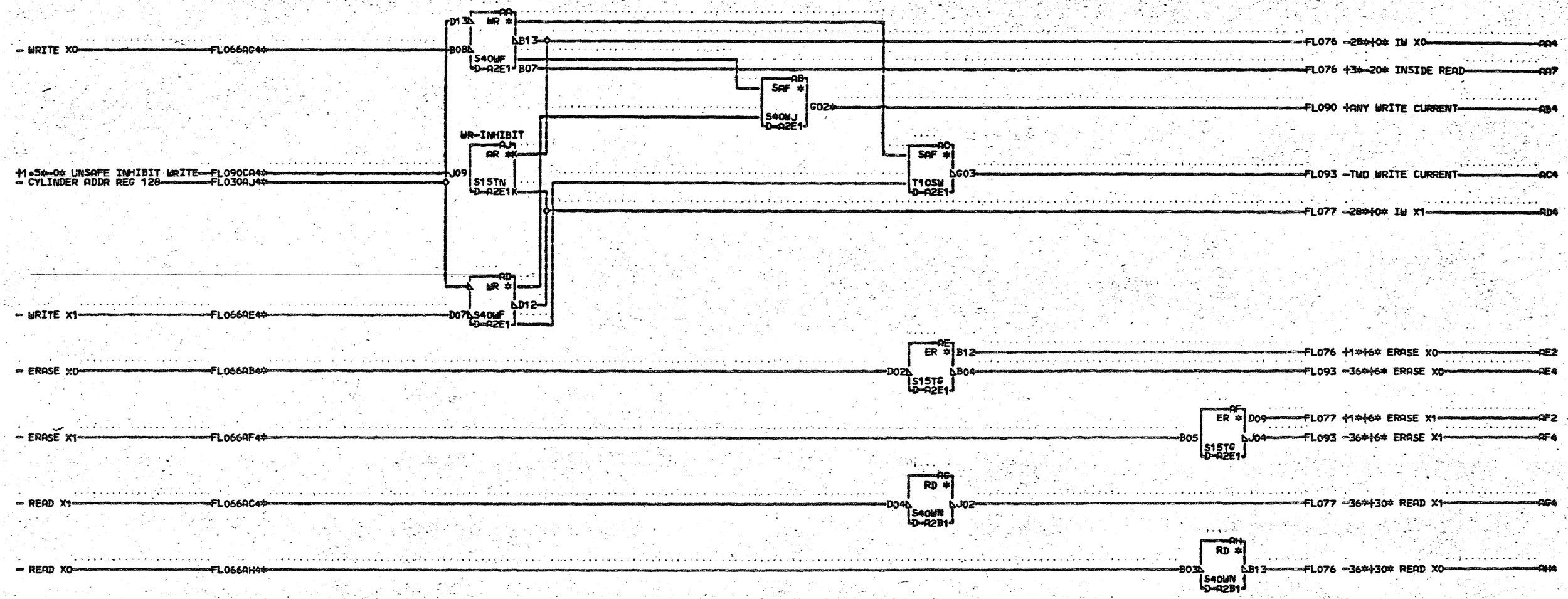
E.C.-HISTORY
416035A

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218231

DATE LAST EC
03-04-66 416044

F L 0 6 9 000

80



FL073
000

FL030AJ4 01D-A2A2D13
01D-A2A2B03 FL066AG4
FL066AB4 01D-A2A2B12
01D-A2A2B13 FL066AH4
FL066AC4 01D-A2A2D10
01D-A2A2B10 FL090CA4
FL066AE4 01D-A2A1B09
01D-A2A2D12 AB4 D-A2A1B12
FL066AF4

LOC. TYPE
D-A2B1 6846
D-A2E1 6277

WRITE READ + ERASE

E.C. HISTORY	
416035A 420832	
416044	
416080	
416096	
DATE LAST EC	
06-06-67 420927	

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218232

FL073
000

-28 TO -27PPAC* WR. TRIGGER B — FL081AB4 — B05
-27 TO -28PPAC* WR. TRIGGER A — FL081AB2 — D05
-28*+0* IW XO — FL073AA4 — D07

AB
AR MD* B07
WL
X
S16SJ
D-A2F1

B07 — FL077 +3 TO +4PPAC* WR.TRANSITION — AB2

+3*-36* Y0 SELECTED — FL069AL4

Y0X0 AD
*X
MATRIX
WL
G07
J05 S61XN B13
B02 D-A2F1 D13

HEAD PLUG 0 AE
X PLUG*
7332
D-A2F1

+3*-36* Y1 SELECTED — FL069AM4

Y1X0 AG
*X
MATRIX
G12 S61XN K
D-A2F1K

HEAD PLUG 2 AH
X PLUG*
7332
D-A2F1

+3*-36* Y2 SELECTED — FL069AN4

Y2X0 AK
*X
MATRIX
G05 S61XN K
D-A2F1K

HEAD PLUG 4 AL
X PLUG*
7332
D-A2F1

+3*-36* Y3 SELECTED — FL069AP4

Y3X0 AN
*X
MATRIX
G13 S61XN K
D-A2F1K

HEAD PLUG 6 AP
X PLUG*
7332
D-A2F1

+1*+6* ERASE XO — FL073AE2
+3*-36* Y4 SELECTED — FL069AQ4

Y4X0 AR
*X
MATRIX
J13 S61XN K
D-A2F1K

HEAD PLUG 8 AS
X PLUG*
7332
D-A2F1

+3*-36* Y5 SELECTED — FL069AS4

Y5X0 AX
*X
MATRIX
G04 S61XN K
D-A2F1K

HEAD PLUG 10 AV
X PLUG*
7332
D-A2F1

-36*+30* READ XO — FL073AH4
+3*-36* Y6 SELECTED — FL069AR4

Y6X0 AU
*X
MATRIX
G03 S61XN K
D-A2F1K

HEAD PLUG 12 AY
X PLUG*
7332
D-A2F1

+3*-36* Y7 SELECTED — FL069AT4

Y7X0 BA
*X
MATRIX
G02 S61XN K
D-A2F1K

HEAD PLUG 14 BB
X PLUG*
7332
D-A2F1

+3*-36* Y8 SELECTED — FL069AU4

Y8X0 BD
*X
MATRIX
J02 S61XN K
D-A2F1K

HEAD PLUG 16 BE
X PLUG*
7332
D-A2F1

+3*-36* Y9 SELECTED — FL069AV4

Y9X0 BG
*X
MATRIX
G10 S61XN K
D-A2F1K

HEAD PLUG 18 BH
X PLUG*
7332
D-A2F1

+3*-20* INSIDE READ — FL073AA7 — B12

BP
SPEC*
K
S40YI
D-A2F1

FL081 +1*+5* READ SIGNAL A — AD5
FL081 +1*+5* READ SIGNAL B — AD6

LOC. TYPE
D-A2F1 7332

WRITE DRIVER + MATRIX EVEN

E.C. HISTORY
416035A
416044

DATE LAST EC
08-10-66 416096

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218233

FL076 000

FL076 000

-27 TO -28PPAC* WR. TRIGGER A — FL081AB2 — D05
-28 TO -27PPAC* WR. TRIGGER B — FL081AB4 — D05
-28*+0* IW X1 — FL073AD4 — D06

AR MD* WL — S16SJ D-A2F1 — B08 — X

BC DR * BOT

FL093 +3 TO +4PPAC* WR TRANSITION — BC4

+3 TO +4PPAC* WR.TRANSITION — FL076AB2

+3*-36* Y0 SELECTED — FL069AL4
+3*-36* Y1 SELECTED — FL069AM4
+3*-36* Y2 SELECTED — FL069AN4
+3*-36* Y3 SELECTED — FL069AP4
+1*+6* ERASE X1 — FL073AF2
+3*-36* Y4 SELECTED — FL069AQ4
+3*-36* Y5 SELECTED — FL069AS4
-36*+30* READ X1 — FL073AG4
+3*-36* Y6 SELECTED — FL069AR4
+3*-36* Y7 SELECTED — FL069AT4
+3*-36* Y8 SELECTED — FL069AU4
+3*-36* Y9 SELECTED — FL069AV4

Y0X1 — AC — MATRIX WL — J05 S61XN B13 D13 D-A2F1
Y1X1 — AE — MATRIX — G12 S61XN K D-A2F1K
Y2X1 — AG — MATRIX — G05 S61XN K D-A2F1K
Y3X1 — AJ — MATRIX — G13 S61XN K D-A2F1K
Y4X1 — AL — MATRIX — J13 S61XN K D-A2F1K
Y5X1 — AQ — MATRIX — G04 S61XN K D-A2F1K
Y6X1 — AN — MATRIX — G03 S61XN K D-A2F1K
Y7X1 — AS — MATRIX — G02 S61XN K D-A2F1K
Y8X1 — AU — MATRIX — J02 S61XN K D-A2F1K
Y9X1 — AW — MATRIX — J06 G10 D10 S61XN K D-A2F1K

HEAD PLUG 1 — AD — X PLUG* — 7332 D-A2F1
HEAD PLUG 3 — AF — X PLUG* — 7332 D-A2F1
HEAD PLUG 5 — AH — X PLUG* — 7332 D-A2F1
HEAD PLUG 7 — AK — X PLUG* — 7332 D-A2F1
HEAD PLUG 9 — AM — X PLUG* — 7332 D-A2F1
HEAD PLUG 11 — AP — X PLUG* — 7332 D-A2F1
HEAD PLUG 13 — AR — X PLUG* — 7332 D-A2F1
HEAD PLUG 15 — AT — X PLUG* — 7332 D-A2F1
HEAD PLUG 17 — AV — X PLUG* — 7332 D-A2F1
HEAD PLUG 19 — AX — X PLUG* — 7332 D-A2F1

FL081 +1*+5* READ SIGNAL B — AC6
FL081 +1*+5* READ SIGNAL A — AC5

LOC. TYPE
D-A2F1 7332

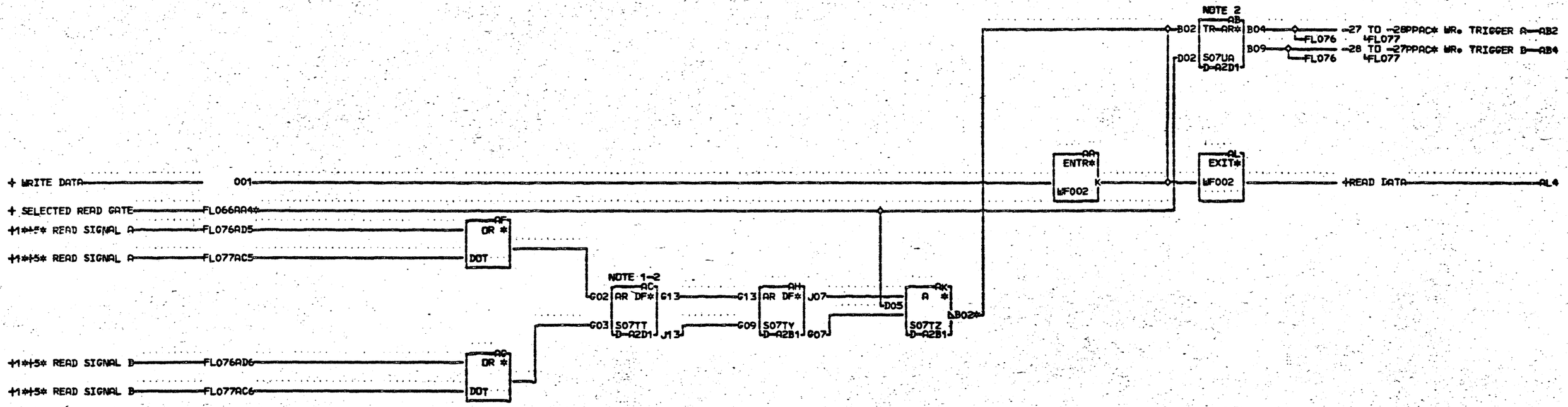
WRITE DRIVER + MATRIX ODD

E.C. HISTORY
416035A
416044

DATE LAST EC
08-10-66 416096

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218234

FICHE 7 OF 7 — 000
FICHE 7 OF 7 — 000



NOTE 1 JUMPER D1G12 TO D1J12 WHEN MAKING RADIAL ALIGNMENT OF HEADS. THIS JUMPER MUST BE REMOVED WHEN ADJUSTMENT IS COMPLETED. NOTE 2 PN 5806387 MAY BE SUBSITUTED FOR 5806836 IN LOCATION D1

FL066AA4
01 D-A2A2B08
AK4 D-A2A1B02

000

LOC.	TYPE
D-A2B1	6846
D-A2D1	6836

PRE-AMP + WRITE TRIGGER

E.C. HISTORY	
416035A	
416044	
416096	
420832	
DATE LAST EC	
06-06-67 420927	

ARCH. 2314
FRAME 01
IBM CORP. GPD
P.N. 2218235

FL081
000

+36VDC AC SAFETY — 002 — BT ENTR* SEQ PNL ZL001

- FILTER CONTAMINATED — 003 — CQ ENTR* SEQ PNL ZL001

AC UNSAFE — AC SPEC* — J02 7221AB S40TN A-A1D6 — G04

CE N — D05 E L D12 — A-A1G6

BU N * — G04 7221AY T10SQ A-A1D6 — J11

BK N — G09 H — A-A1D6

G04 / J09 — BJ OR * — 7221BA S03SP A-A1D6 — G08 — FL020 — + HEAD SELECT SAFE FL066 — BJ4

R/W UN-SAFE — FL AO OR — D07 D11 D06 J L D12 — A-A1D6

LATCH — FL AL A — D12 D10 D13 J LD D11 — A-A1D6

NOTE 2 — CF A — D04 B04 B03 J KB08 — A-A1K4

DC UNSAFE — AB SPEC* — 7221AA S40SL A-A1D6 — G13 J12* J13* G07* — BN EXIT* MFG TEST

BA N — D13 J L B13 — A-A1L4

- SEEK READY — FL053BW4

FL — AD OR — D11 B04 B09 J KD12 — A-A1D6

+ INITIAL SEEK LATCH — FL026BE4

- SELECTED READ GATE — FL020AH4

+ERASE CURRENT SAFE — FL093AF4*

- HEAD SELECT — FL021AG4

FL099 - R/W UNSAFE — AL4

- FILE UNSAFE — FL021 FL025 — AV2

FL054 + SEEK READY — BA4

CA N — D13 E L B13* — A-A1K4 — FL073 +1.5*-0* UNSAFE INHIBIT WRITE — CA4

HEAD UNSAFE — FL AE OR — B12 J — B13 A-A1D6

LATCH — FL AJ A — D13 D10 J LD B13 — A-A1D6

-MULTIPLE SELECT — FL093AK4*

FL050 + FILE UN-SAFE — AR4

AV N * — G09 — J06 — AY AR * — 6269BA S55SC A-A1G6 — G05* — - 0*+36* SELECT LOCK LAMP — AY4

G03 7221AM S07SQ A-A1D6

- SELECTED WRITE GATE — FL020AG4

NOTE 3 — BD ENTR* CE BOX — 001

-3 PWR ON + CE RESET SEL LCK

L5U TO NOTE 4 — CB TD * — 7221BD K D04 — A-A1D6

AC WR UNSAFE — AS A * — D04 B08 — 7221AS T03SN A-A1D6 — D02

D11 J06 J11 G13 B13 — AR OR — A-A1D6 — G03

FL099 - HEAD UNSAFE — AJ4

L2U T6U NOTE 4 — BX TD * — D07 — 7221BF — A-A1D6

B2 N * — 7221BG — A-A1D6

+ SELECT WRITE GATE — FL066AV4

+ANY ERASE CURRENT — FL093AB2*

-AC WRITE — FL093AG4*

WRITE UNSAFE — AX — D07 B03 J K D02 — A-A1D6

WRITE UN-SAFE — FL CF OR — D02 B10 J06 J — A-A1D6

LATCH — FL AK A — D10 D13 J LD J06 — A-A1D6

FL099 - WRITE UNSAFE — AK4

- SELECTED ERASE GATE — FL020AK4

FL054 -3 PWR ON+CE RESET SEL-LOCK — BD4

L2U T5U NOTE 4 — BY TD * — D06 — 7221BE — A-A1D6

ERASE UNSAFE — AT — D06 B07 J K B10 — A-A1D6

BF N * — D05 — 8338AM1 S10SC A-A1K4 — B05

BG N * — D05 — 8338AM1 S10SC A-A1L4 — B05

B05 / B02 — AP AR * — 7221ARK T60SA A-A1D6

- SEQUENCE START PULSE — FL053BC4

BA EXIT* MFG TEST

+ANY WRITE CURRENT — FL073AB4*

+ INDEX — FL056AE4 — J12

+ SELECTED SET HEAD — FL060AP4 — C10

+ A64 FILE BUS 1 — FL020AB4 — J10

CC A — J K KJ11 — A-A1J4

AW N * — D09 — 7221AUK T05SC A-A1D6 — B03

BV N — B03 E LD J04 — A-A1D6 — FL025 - WRITE CURRENT SENSE — BV4

BH SERV* GND — D08 — A-A1D6

AN N * — D05 — 7221AVK T05SC A-A1D6 — B07

BU EXIT* MFG TEST

BP EXIT* MFG TEST

BQ EXIT* MFG TEST

NOTE*1 TO TIE OFF SELECT LOCK LATCHES> GROUND D6D10
F NOTE 2 WIRING FOR VACUUM
L SWITCH MACHINES ONLY
O NOTE*3 THIS LINE ALSO
9 RESET THE ATTENTION LATCH
0 NOTE 4 TD BLOCK TITLE MEANS OUTPUT LEADING EDGE DELAYED X
000MICRO SECONDS * TRAILING EDGE DELAYED X MICRO SECONDS

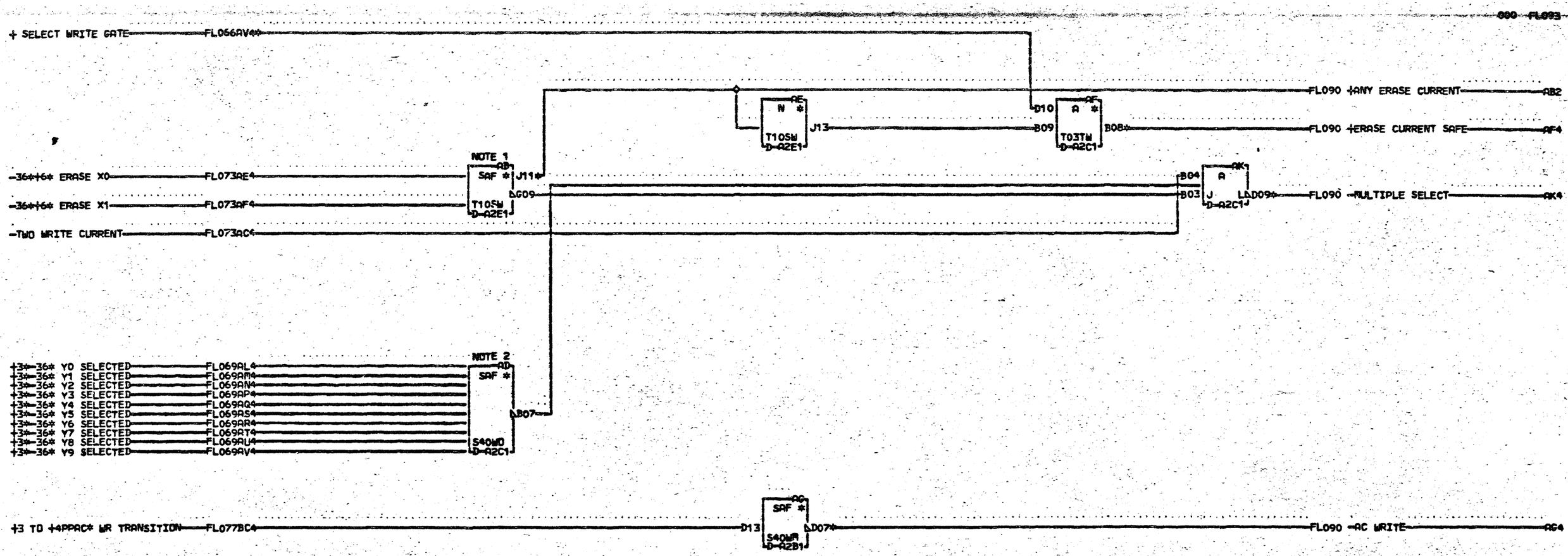
FL073AB4	01A-A1J8D04		01A-A1N6D11
	01A-A1J8E06	01A-A1C8A06	BT4 A-A1N5D13
	01A-A1C8B04	FL093AK4	CA4 A-A1J8B06
FL093AB2		01A-A1J8E04	CG4 A-A1N5B02
	01A-A1K8A04	AB3 A-A1C8B06	01A-A1N5B02
	01A-A1C8E04	AB5 A-A1C8C04	RESISTOR
FL093AF4		AB6 A-A1C8C06	A-A16B10
	01A-A1K8A06	AY4 A-A1N5D02	
FL093AG4		BD4 A-A1B8E06	

LOC.	TYPE
A-A1D6	7221
A-A1G6	6269
A-A1J4	8338
A-A1K4	8338
A-A1L4	8338

SAFETY CIRCUIT

E.C.-HISTORY-		MACH.2314
416080	420852	
416091	420841	FRAME 01
416097	420925	
416128	420928	IBM CORP. GPD
DATE	LAST EC	
06-10-68	424000	P.N. 2218236

FL090 000



NOTE 1 TEST POINT
E1G09 IS - TWO
F ERASE CURRENTS
L NOTE 2 TEST POINT
0 C1B07 IS - MORE THAN
9 ONE Y SELECTED
3

000

FL066AV4	
01	D-A2A2D06
AB2	D-A2A1D13
AF4	D-A2A1B13
AG4	D-A2A1D11
AK4	D-A2A1D12

LOC.	TYPE
D-A2B1	6846
D-A2C1	6268
D-A2E1	6277

READ◊ ERASE + Y SELECT SAFETY

CKT.

E.C.-HISTORY-

416035A 420832
416044
416080
416096

DATE LAST EC
06-06-67 420927

MACH.2314

FRAME 01

IBM CORP. GPD

P.N. 2218237

000

F
0
9
3

- WRITE UNSAFE — FL090AK4
+ D 32 — FL040BK4
+ D 128 — FL040BP4
- CYLINDER ADDR REG 64 — FL030AN4
- R/W UNSAFE — FL090AL4
+ D 64 — FL040BM4
- CYLINDER ADDR REG 128 — FL030AJ4
- HEAD UNSAFE — FL090AJ4
+ D 8 — FL040AT4
- CYLINDER ADDR REG 32 — FL030AK4
+ H4 — FL060AN4
+ D 16 — FL040BH4
- CYLINDER ADDR REG 16 — FL030AP4
+ H8 — FL060BC4
- CYLINDER ADDR REG 8 — FL030AL4
+ D 4 — FL040AR4
- INITIAL SEEK LATCH — FL026BF4
+ D 2 — FL040AN4
- CYLINDER ADDR REG 4 — FL030AR4
+ D 1 — FL040AL4
- CYLINDER ADDR REG 2 — FL030AM4
+ H1 — FL060AL4
+ H2 — FL060BA4
+ H16 — FL060BP4
- CYLINDER ADDR REG 1 — FL030AS4
+ IND FILE FORWARD LATCH — FL050BD4
+ ATTENTION — FL054BB4
- MODULE SELECT LAMP — FL025CG4

AA EXIT* AB EXIT* AC EXIT* AD EXIT* AE EXIT* AF EXIT* AG EXIT* AH EXIT*
AJ EXIT* AK EXIT* AM EXIT* AN EXIT* AP EXIT* AQ EXIT* AR EXIT* AS EXIT*
AT EXIT* AU EXIT* AV EXIT* AW EXIT* AX EXIT*
AY EXIT* AZ EXIT* BA EXIT* BB EXIT*
CF EXIT*
CG EXIT* BF EXIT*

- HEAD UNSAFE — AG4
+ D 32 — AH4
- CAR 128 — AC4
+ D 64 — AE4
- CAR 64 — AF4
- R/W UNSAFE — AD4
+ D 128 — AB4
- WRITE UNSAFE — AA4
+ D 16 — AJ4
+ D 8 — AP4
- CAR 32 — AM4
+ H4 — AR4
+ D 4 — AS4
- CAR 16 — AK4
- CAR 8 — AQ4
+ H 8 — AN4
+ D 2 — AU4
+ D 1 — AW4
- CAR 4 — AV4
- CAR 2 — AT4
- INITIAL SEEK LATCH — AX4
+ IND FILE FORWARD LATCH — BB4
- CAR 1 — BA4
+ H16 — CF4
+ H1 — AY4
- MODULE SELECT LAMP — CG4
+ H2 — AZ4
+ ATTENTION — BF4

F L 0 9 9 000

FL025CG4 01A-A1C6D05 FL030AS4 01A-A1C7B04 FL050BD4 01A-A1C7D04 FL090AL4
01A-A1C6D11 FL030AM4 01A-A1C6D10 FL040BH4 01A-A1C7D11 FL060BC4 01A-A1C6D04
FL026BF4 01A-A1C6D09 FL040AL4 01A-A1C7D09 FL054BB4 01A-A1C7B07
01A-A1C7B10 FL030AN4 01A-A1C7B09 FL040BK4 01A-A1C7B12 FL060BP4
FL030AJ4 01A-A1C6B07 FL040AN4 01A-A1C6D12 FL060AL4 01A-A1C7D12
01A-A1C6B13 FL030AP4 01A-A1C7D05 FL040BM4 01A-A1C7D07 FL090AJ4
FL030AK4 01A-A1C6D13 FL040AR4 01A-A1C6D06 FL060AN4 01A-A1C6B09
01A-A1C6B10 FL030AR4 01A-A1C7D02 FL040BP4 01A-A1C7B02 FL090AK4
FL030AL4 01A-A1C6B04 FL040AT4 G1A-A1C6B02 FL060BA4 01A-A1C6D02

C.E. INDICATOR

E.C. HISTORY
416035
416044

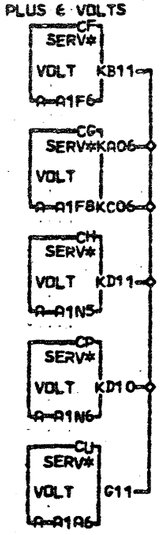
DATE LAST EC
04-22-66 416080

RACH 2314
FRAME 01
IBM CORP. GPD
P.N. 2218238

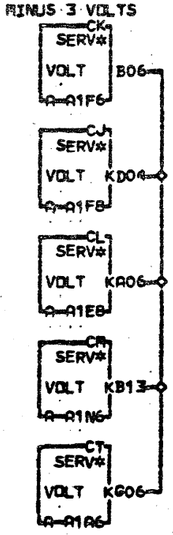
F L 0 9 9 000

20.

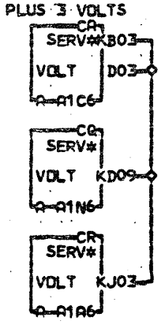
PLUS 6 VOLTS



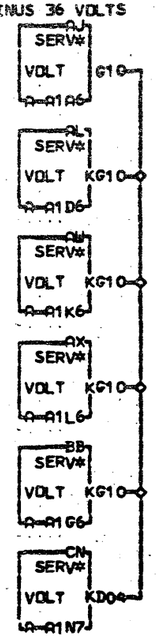
MINUS 3 VOLTS



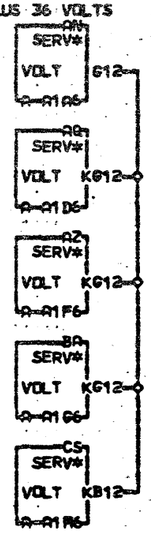
PLUS 3 VOLTS



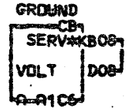
MINUS 36 VOLTS



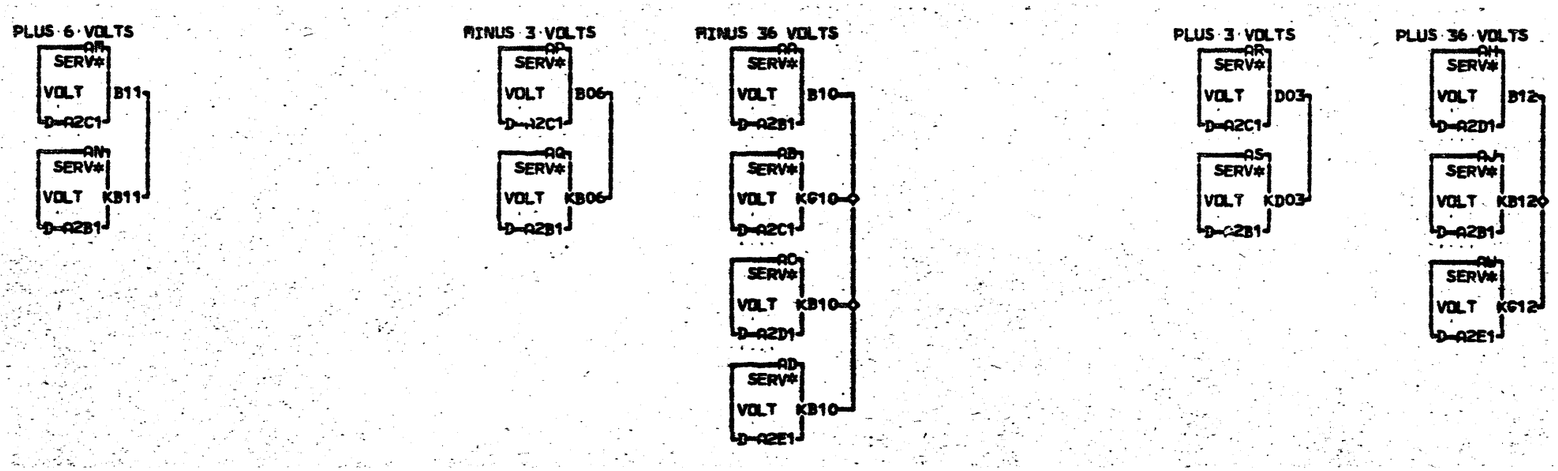
PLUS 36 VOLTS



GROUND



SERVICE VOLTAGE BOARD A-A1		
—E.C.—HISTORY—	MACH.2314	FL120
	FRAME 01	
DATE LAST EC	IBM CORP. GPD	000
10-29-65 416035	P.N. 2218239	



FL122
000

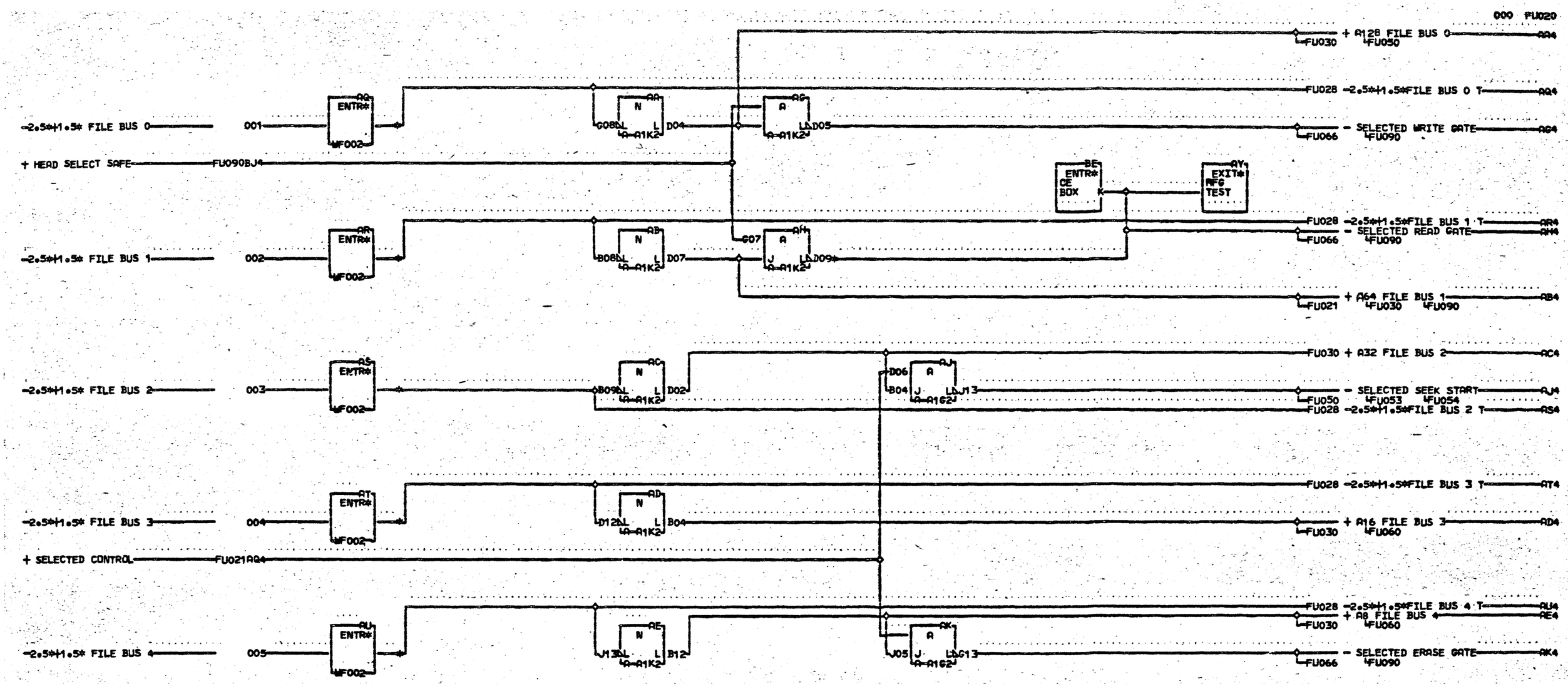
SERVICE VOLTAGE BOARD D-A2

E.C. HISTORY
416035A

DATE LAST EC
04-22-66 416080

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218240

FL122
000



FU020 000

AH4 A-A1C1D09
01A-A1N2B06
AQ4 A-A1N3B02
AR4 A-A1N3B03
AS4 A-A1N3B04
AT4 A-A1N3B05
AU4 A-A1N3D12

LOC. TYPE
A-A162 6269
A-A1K2 4270

LINE RECEIVERS

E.C. HISTORY
416035
416044
416080

DATE LAST EC
06-08-66 416091

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218241

FU020 000

-2.5*+1.5* FILE BUS 5 — 001 — ENTR* (AU, WF002)
-2.5*+1.5* FILE BUS 6 — 002 — ENTR* (AV, WF002)
- FILE UNSAFE LATCH — FU090AV2
-2.5*+1.5* FILE BUS 7 — 003 — ENTR* (AW, WF002)
+ A64 FILE BUS 1 — FU020AB4
-2.5*+1.5* CONTROL — 004 — ENTR* (AX, WF002)
-2.5*+1.5* SET CYLINDER — 005 — ENTR* (AY, WF002)
-2.5*+1.5* SET HEAD + DIRECTIO — 006 — ENTR* (AZ, WF002)
-2.5*+1.5* SET DIFFERENCE — 007 — ENTR* (BA, WF002)
-2.5*+1.5* MOD SELECT — 008 — ENTR* (BB, WF002)

N (AA) A-A1L2: C08 L, L D04
N (AB) A-A1L2: B08 L, L D07
N (AC) A-A1L2: B09 L, L D02
N (AD) A-A1L2: D12 L, L B04
N (AE) A-A1L2: B07 L, L B05
N (AF) A-A1L2: B10 L, L B03
N (AK) A-A1L2: J13 L, L B12
N (AL) A-A1L2: D06 L, L B02
N (AS) A-A1F4: G04 J, LA D11

A (AG) A-A1L2: A, LA D05
A (AH) A-A1L2: G07 A, Δ0, J, LA D09
A (BL) A-A1F4: D04 B04 B03 A, J, LA B08
A (AQ) A-A1G2: D07 D09 B07 A, J, L B03
AR (AP) A-A1G2: D04 J, L B02

FU028 -2.5*+1.5*FILE BUS 5 T — AU4
FU030 + A4 FILE BUS 5 — AA4 (FU060)
FU090 - HEAD SELECT — AG4
FU028 -2.5*+1.5*FILE BUS 6 T — AV4
FU030 + A2 FILE BUS 6 — AB4 (FU060)
FU050 - RETURN TO 000 — AH4
FU020 + SELECTED CONTROL — AQ4 (FU060)
FU028 -2.5*+1.5*FILE BUS 7 T — AW4
FU030 + A1 FILE BUS 7 — AC4 (FU060)
FU054 - READ GATE — BL4
FU028 -2.5*+1.5*CONTROL T — AX4
FU028 -2.5*+1.5*SET CYLINDER T — AY4
FU030 + SET CYLINDER — AK4 (FU040)
FU028 -2.5*+1.5*SET HEAD+DIRECTION T — AZ4
FU025 + MOD SELECT — AF4 (FU056)
FU028 -2.5*+1.5*SET DIFFERENCE T — BA4
FU060 + SET HEAD — AE4
FU030 + SET DIFFERENCE — AL4
FU028 -2.5*+1.5*MOD SELECT T — BB4
FU026 + MOD SELECT LINE 1 — AP4 (FU030 FU040 FU060)
FU025 - MOD SELECT — AS4

FU021 000

AU4 A-A1N3B07
AV4 A-A1N3B08
AW4 A-A1N3B09
AX4 A-A1N3D13
AY4 A-A1N3B13
AZ4 A-A1N3B12
BA4 A-A1N3B10
BB4 A-A1N2B09

LOC.	TYPE
A-A1F4	8338
A-A1G2	6269
A-A1L2	4270

LINE RECEIVERS

E.C. HISTORY		MACH.2314
416035	416097	
416044	420852	FRAME 01
416080	420841	
416091	420925	IBM CORP. GPD
DATE	LAST EC	
07-10-67	420928	P.N. 2218242

FU021 000

- WRITE CURRENT SENSE — FU090BV4 — J07
- INDEX — FU056BB4 — J09
- PACK CHANGE — FU054AK4
- FILE BUSY — FU053BX4
- GATED ATTENTION — FU054AW4
- GATED ON LINE — FU054BD4 — J10
- SELECTED END OF CYLINDER — FU060BE4 — D11
- SEEK INCOMPLETE — FU053AG4 — J06
- MOD SELECT — FU021AS4* — J11
- FILE UNSAFE LATCH — FU090AV2 — J02
+ MOD SELECT — FU021AF4 — B05 — FU099 = MODULE SELECT LAMP — CG4

S06SDUDG09* — J12 — D10 — J05 — S06SDUDG03* — WF002 -2.5*+1.5* SELECTED PACK CHANG—BA4

WF002 - 2.5*+1.5* WRITE CURRENT SENS—CH4

WF002 - 2.5*+1.5* SELECTED INDEX—AK4

J04 — B13 — S10SI — S06SDUDD13* — WF002 - 2.5*+1.5* GATED ATTENTION—CH4

S06SDUDG02* — WF002 - 2.5*+1.5* SELECTED FILE BUSY—BB4

S06SDUDG12* — WF002 - 2.5*+1.5* SELECTED ON LINE—AL4

S06SDUDG04* — WF002 - 2.5*+1.5* SELECTED END OF CY—BC4

S06SDUDJ11* — WF002 - 2.5*+1.5* SELECTED SEEK INCD—AM4

S06SDUDG05* — WF002 - 2.5*+1.5* FILE UNSAFE—BD4

B13 — S10SI — S06SDUDD13* — WF002 - 2.5*+1.5* SELECTED MODULE—AZ4

FU021AS4	BB4	A—A1N2B08	
RESISTORS	BC4	A—A1N3D11	
A—A1L2	BD4	A—A1N3D09	
A—A1L2	CH4	A—A1N3D02	
AK4	A—A1N3D07	CM4	A—A1N3D05
AL4	A—A1N3D06		
AM4	A—A1N3D10		
AZ4	A—A1N2B10		
BA4	A—A1N2B07		

LOC.	TYPE
A—A1E2	4273
A—A1K2	4270
A—A1L2	4270

LINE DRIVERS

—E.C.—HISTORY—
416035
416044
416069

DATE LAST EC
07-05-66 416097

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218243

FU025 000

FU025 000

- CYLINDER ADDR REG 128 — FU030AJ4
- CYLINDER ADDR REG 64 — FU030AN4
- INHIBIT — FU053AE2
- SELECTED SET CYLINDER — FU030AA4
- CYLINDER ADDR REG 32 — FU030AK4
- CYLINDER ADDR REG 16 — FU030AP4
+ ROD SELECT LINE 1 — FU021AP4
- CYLINDER ADDR REG 8 — FU030AL4
- CYLINDER ADDR REG 4 — FU030AR4
- CYLINDER ADDR REG 2 — FU030AM4
- CYLINDER ADDR REG 1 — FU030AS4

INITIAL SEEK (BE) OR J13 J G13 A-A1E4 L G12
LATCH (BF) A G10 J J10 A-A1E4 LD J11
(BG) A J09 J LD D13* A-A1G2

AA N J09 H K A-A1K2
AB N G13 H K A-A1K2
AK AR SO6SDLD J12* A-A1K2
AL AR SO6SDLD G12* A-A1K2
AM AR SO6SDLD J11* A-A1K2
AN AR SO6SDLD G09* A-A1K2
AO N J10 H A-A1K2
AD N C13 H K A-A1K2
AE N J06 H K A-A1K2
AF N C13 H A-A1K2
AH N A-A1K2
AP N J07 H K A-A1K2

AR N D10 H A-A1K2
AS N J05 H K A-A1K2
AT N J04 H K A-A1K2
AU N A-A1K2
AV N D11 H A-A1K2
AW N A-A1K2
AX N J02 H K A-A1K2
AY N A-A1K2

BA AR SO6SDLD G03* A-A1K2 — WF002 - 2.5*+1.5* CYL ADDR REG 128 — BA4
BB AR SO6SDLD G02* A-A1K2 — WF002 - 2.5*+1.5* CYL ADDR REG 32 — BB4
BC AR SO6SDLD G04* A-A1K2 — WF002 - 2.5*+1.5* CYL ADDR REG 8 — BC4
BD AR SO6SDLD G05* A-A1K2 — WF002 - 2.5*+1.5* CYL ADDR REG 2 — BD4

WF002 - 2.5*+1.5* CYL ADDR REG 64 — AK4
WF002 - 2.5*+1.5* CYL ADDR REG 16 — AL4
WF002 - 2.5*+1.5* CYL ADDR REG 4 — AM4
WF002 - 2.5*+1.5* CYL ADDR REG 1 — AN4

FU099 - INITIAL SEEK LATCH — BF4
FU050 + INITIAL SEEK LATCH (FU090) — BE4

FU026 000

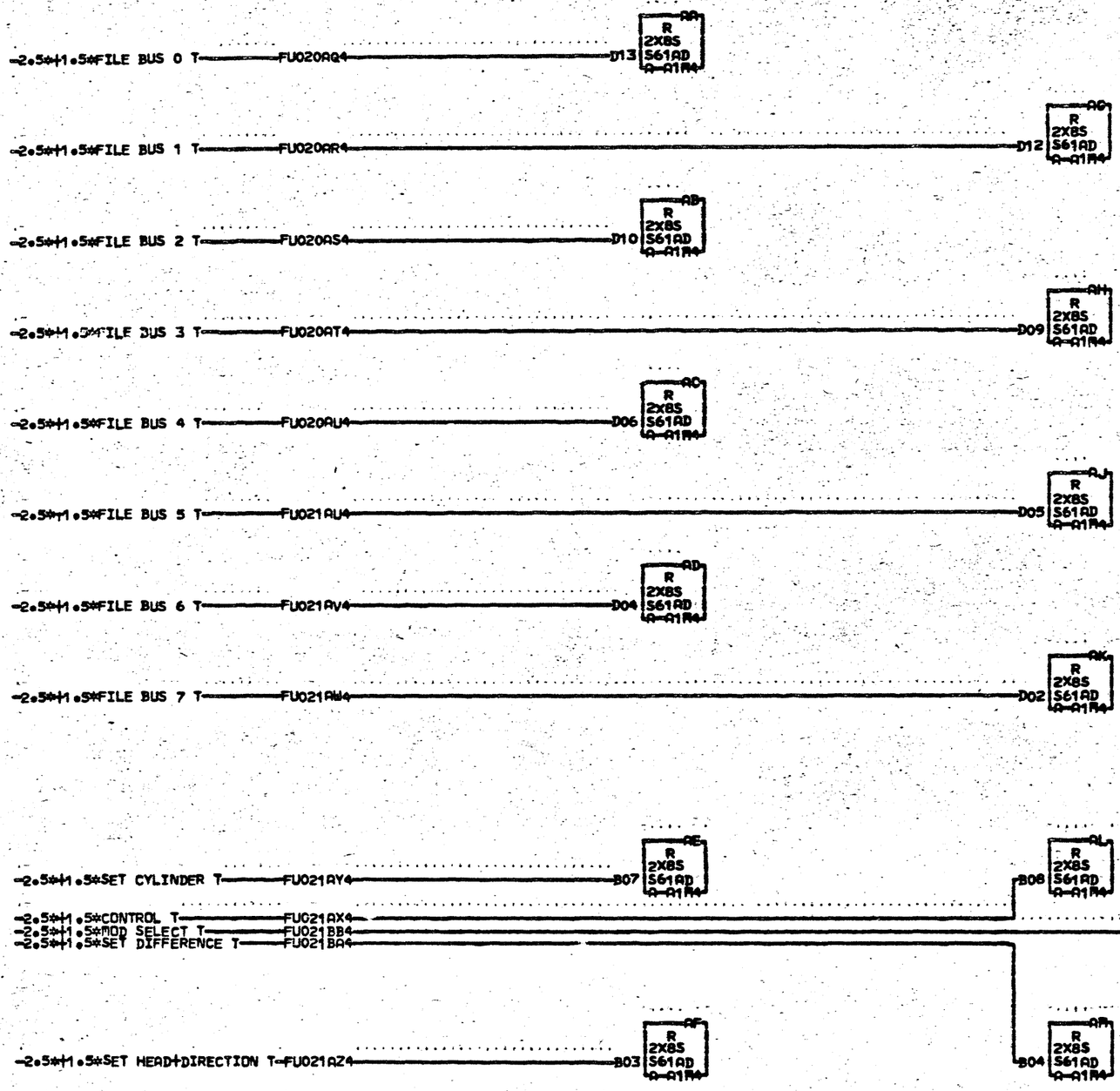
AK4 A-A1N2D05 A-A1K2
AL4 A-A1N2D04 A-A1K2
AM4 A-A1N2B03
AN4 A-A1N2B02
BA4 A-A1N2D06
BB4 A-A1N2B05
BC4 A-A1N2B04
BD4 A-A1N2D02
BG4 RESISTORS

LOC. TYPE
A-A1E4 6338
A-A1G2 6269
A-A1K2 4270

LINE DRIVERS

E.C. HISTORY		MACH. 2314
416035	420852	
416044	420925	FRAME 01
416097	420928	
420843		IBM CORP. GPD
DATE	LAST EC	P.N. 2218244
06-07-68	424000	

FU026 000



NOTE
THE 2X8 SWITCH IS
AN OPTIONAL FEATURE

LOC. TYPE
A-A1A4 0720

TERMINATOR 2X8 SWITCH

E.C. HISTORY
416080

RACK.2314
FRAME 01
IBM CORP. SDD

DATE LAST EC
06-04-66 416091

P.N. 2218265

FU028
000

+ A128 FILE BUS 0 — FU020AA4
+ A64 FILE BUS 1 — FU020AB4
+ A32 FILE BUS 2 — FU020AC4
+ A16 FILE BUS 3 — FU020AD4
+ A8 FILE BUS 4 — FU020AE4
+ A4 FILE BUS 5 — FU021AA4
+ A2 FILE BUS 6 — FU021AB4
+ A1 FILE BUS 7 — FU021AC4

+ SET CYLINDER — FU021AK4
+ ROD SELECT LINE 1 — FU021AP4
+ SET DIFFERENCE — FU021AL4

D09 PH AJ — J09 — LAG13 A — AT
B09 PH AN — D13 — LAJ13 A — AX
B10 PH AK — B13 — LAG12 A — AU
D10 PH AP — D12 — LAJ12 A — AY
J04 PH AL — J06 — LAG09 A — AV
J02 PH AR — G05 — LAG08 A — AZ
J09 PH AM — G03 — LAG07 A — AW
G02 PH AS — G04 — LAG10 A — BA
D04 A AA — B04 — LAB03
J — L — A-A1J2

FU040 — RESETD128 — AT4
FU040 — RESETD64 — AX4
FU040 — RESETD32 — AU4
FU040 — RESETD16 — AY4
FU040 — RESETD8 — AV4
FU040 — RESETD4 — AZ4
FU040 — RESETD2 — AM4
FU040 — RESETD1 — BA4

FU026 — CYLINDER ADDR REG 128 — AJ4 (FU073 FU099)
FU026 — CYLINDER ADDR REG 32 — AK4 (FU099)
FU026 — CYLINDER ADDR REG 64 — AN4 (FU099)
FU026 — CYLINDER ADDR REG 16 — AP4 (FU099)
FU026 — SELECTED SET CYLINDER — AA4 (FU050)
FU026 — CYLINDER ADDR REG 8 — AL4 (FU099)
FU026 — CYLINDER ADDR REG 2 — AR4 (FU099)
FU026 — CYLINDER ADDR REG 4 — AR4 (FU099)
FU026 — CYLINDER ADDR REG 1 — AS4 (FU099)

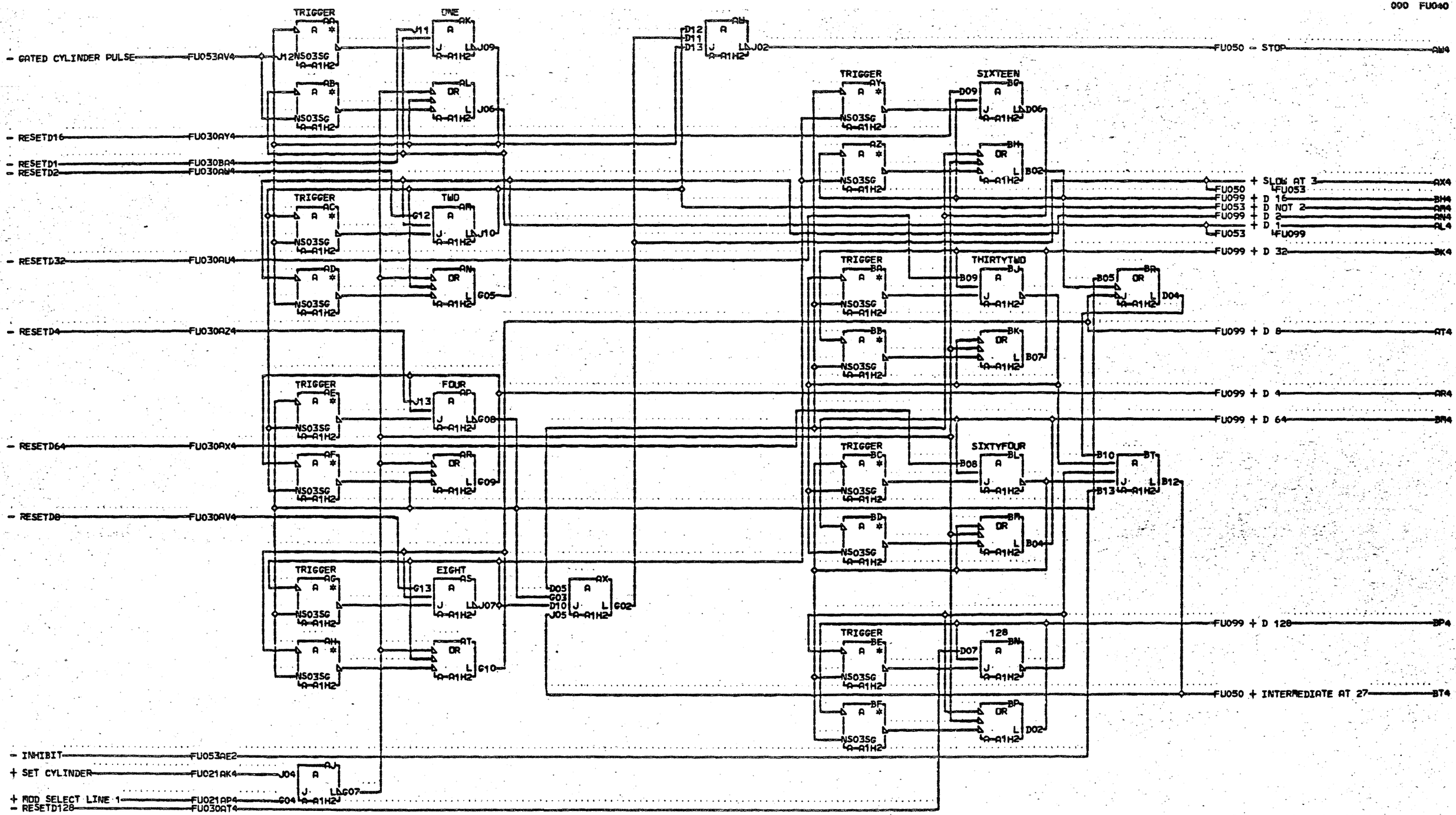
D07 A-A1J2 — LAB07 — AE

AJ4 A-A1L1A11

LOC. TYPE
A-A1J2 4268

CYL ADDR REG + DIFF RESET
E.C. 416035 HISTORY
RACH=2314
FRAME 01
IBM CORP. GPD
DATE 01-12-66 LAST EC 416044
P.NO 2218245
FU030 000

FU040 000



LOC. TYPE
A-A1H2 6270

DIFFERENCE COUNTER WITH DECODES	
E.C. HISTORY	MACH. 2314
416035 416044 416080	FRAME 01
	IBM CORP. GPD
DATE LAST EC 07-05-66 416097	P.N. 2218246

FU040 000

FU040 000

+3 2 RESET FORWARD — 004 — BZ ENTR* SEQ PANEL ZU001

+ A128 FILE BUS 0 — FU020AA4 — B05 — BB A J LD A1G2 — J04

+ SELECTED SET HEAD — FU060AP4 — G04

FWD DIRECTION BD N A1D4 — D13 E L B13 — J09

LATCH BF A A1D4 — G09 J K G08

FWD SOLENOID BJ DR A1C4 — J02 G02 G03 J

LATCH AF A A1C4 — G07 J07 J LD J06

- SELECTED SEEK START — FU020AJ4 — B12 — BC N A1F4 — E L D12 — J13

BK A A1C4 — K G12 — G13

NOTE 1 AT AR * S55SC A1C4K — D10 — D02*

FORWARD AX AR MD* S15SH A1C4 — B02*

- STOP — FU040AW4

FILE SEEK GATE BE A A1F4 — G09 J LD G08 — J09

AE N A1C4 — B12 E L D12

BJ A A1J2 — B08 J K B12 — D11

BK N A1K2 — B10 L LD B03

- SET FORWARD — FU053AQ4
- INHIBIT — FU053AE2
+ CYLINDER PULSE — FU026AT4
+ FILE UN-SAFE — FU050AR4
- SELECTED SET CYLINDER — FU030AA4
+ INITIAL SEEK LATCH — FU026BE4

+36V GND — 007 — BN ENTR* GATE TB5 YB001 — J02

AB OR A1F4 — J G03

NOTE 1 AF A A1F4 — G07 J07 J LD J06

DETENT AL DR A1F4 — J13 J L G12 — G13

LATCH AQ A * S10SE A1F4 — D07 B07 DC6 B09 — B10

NOTE 1 AU AR * S55SC A1F4K — D10 — D02*

DETENT AY AR MD* S15SH A1F4 — B02*

+36V GND — 008 — BA ENTR* GATE TB6 YB001

AC A * S03SE A1G2 — J02 G02 — G07

+ FIRST SEEK COMPLETED — FU053AC4
+ SLOW AT 3 — FU040AX4
- FIRST SEEK — FU053AU4

- RETURN TO 000 — FU021AH4 — BW OR * DOT
- PLUG CHANGE — FU054AZ4

AG A A1E4 — J02 G02 G03 J

AM DR A1E4 — G07 J07 J L J06

AR N A1E4 — B12 E L D12

NOTE 1 AV AR * S55SC A1E4K — D10 — D02*

SLOW AT 3 AZ AR MD* S15SH A1E4 — B02*

+36 GND — 009 — BQ ENTR* GATE TB6 YB001

BH AR A1G2 — B09 E U B12

AH A A1D4 — J02 G02 G03 J

AN DR A1D4 — G07 J LD J06

AS N A1D4 — B12 E L D12

NOTE 1 AW AR * S55SC A1D4K — D10 — D02*

INTER AT 27 BA AR MD* S15SH A1D4 — B02*

+ INTERMEDIATE AT 27 — FU040BT4

BY R * S61YG A1F2 — J02

BU AR A1G2 — B08 E LD D10

+36 GND — 010 — BR ENTR* GATE TB6 YB001

FU099 + IND FILE FORWARD LATCH — BD4

ZU003 - 0*+36* FORWARD PICK — AX4

ZU003 - 0*+36* FORWARD HOLD — AT4

FU053 + DETENT LATCH — AL4
FU053 - DETENT LATCH — AQ4
ZU003 - 0*+36* DETENT HOLD — AU4

ZU003 - 0*+36* DETENT PICK — AY4

ZU003 - 0*+36* SLOW AT 3 PICK — AZ4

ZU003 - 0*+36* SLOW AT 3 HOLD — AV4

FU053 + DRIVE ON LINE — BH4

ZU003 -0*+36*INTERMEDIATE AT 27 PICK — BA4

ZU003 -0*+36*INTERMEDIATE AT 27 HOLD — AW4

FU060 - HAR RESET — BU4

NOTE 1 EXTRA PICK PULSES MAY OCCUR ON DRIVERS WHOSE SOLENOID IS ALREADY PICKED. THIS IS NORMAL AND WILL NOT CAUSE A PROBLEM.

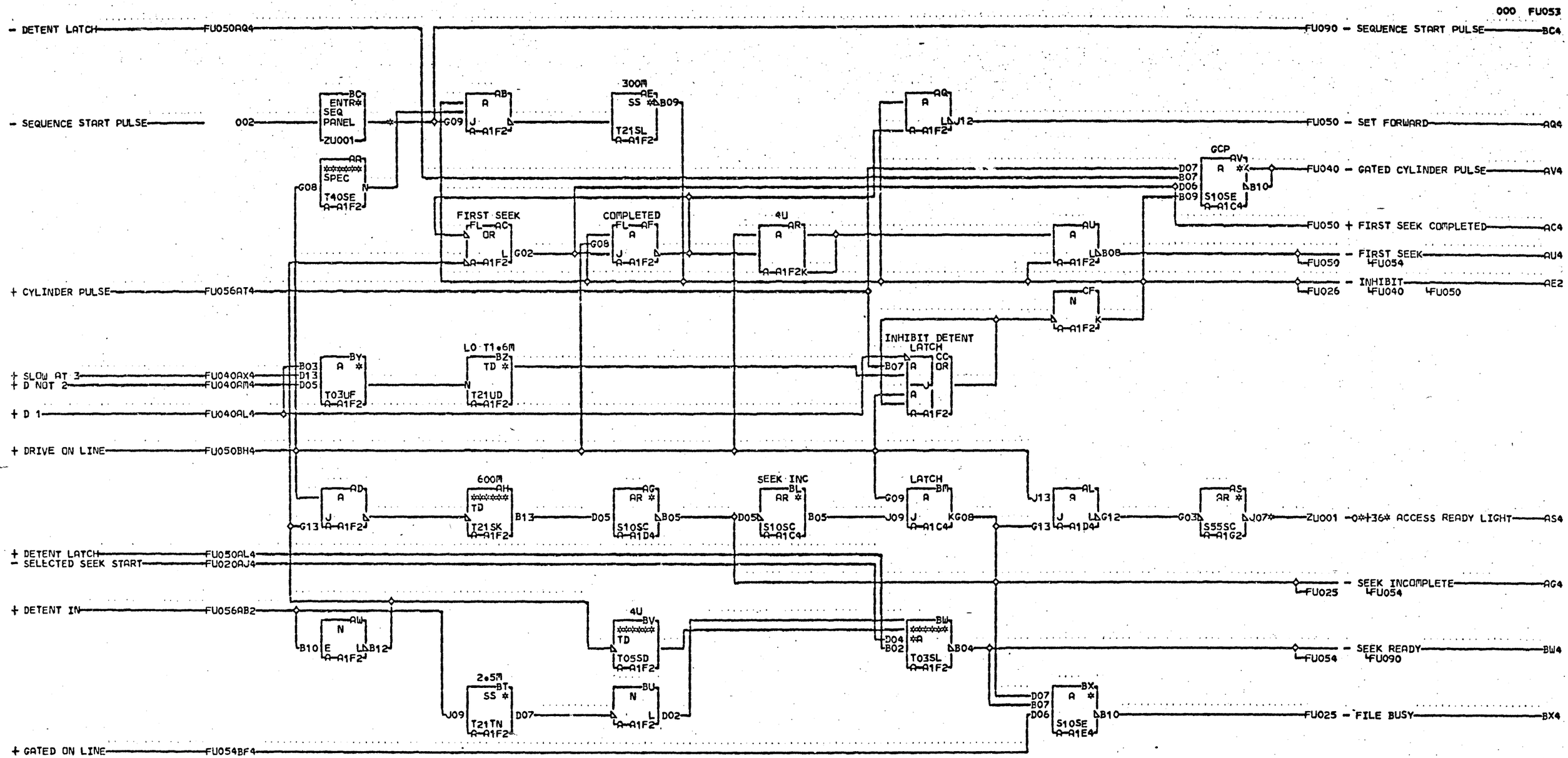
AT4	A1N4B12
AU4	A1N4B03
AV4	A1N4B08
AW4	A1N4B10
AX4	A1N4B13
AY4	A1N4B07
AZ4	A1N4B09
BA4	A1N4B04
BZ4	A1N4D10

LOC.	TYPE
A1C4	8338
A1D4	8338
A1E4	8338
A1F2	7325
A1F4	8338
A1G2	6269
A1J2	4268
A1K2	4270

SOLENOID DRIVERS

E.C.	HISTORY	MACH. 2314
416035	420843	
416044	420852	FRAME 01
416097	420925	
420832		IBM CORP. GPD
DATE	LAST EC	
07-18-67	420928	P.N. 2218247

F U 0 5 0 000



FU053 000

AS4 A-A1N4D07
BC4 A-A1N4D09

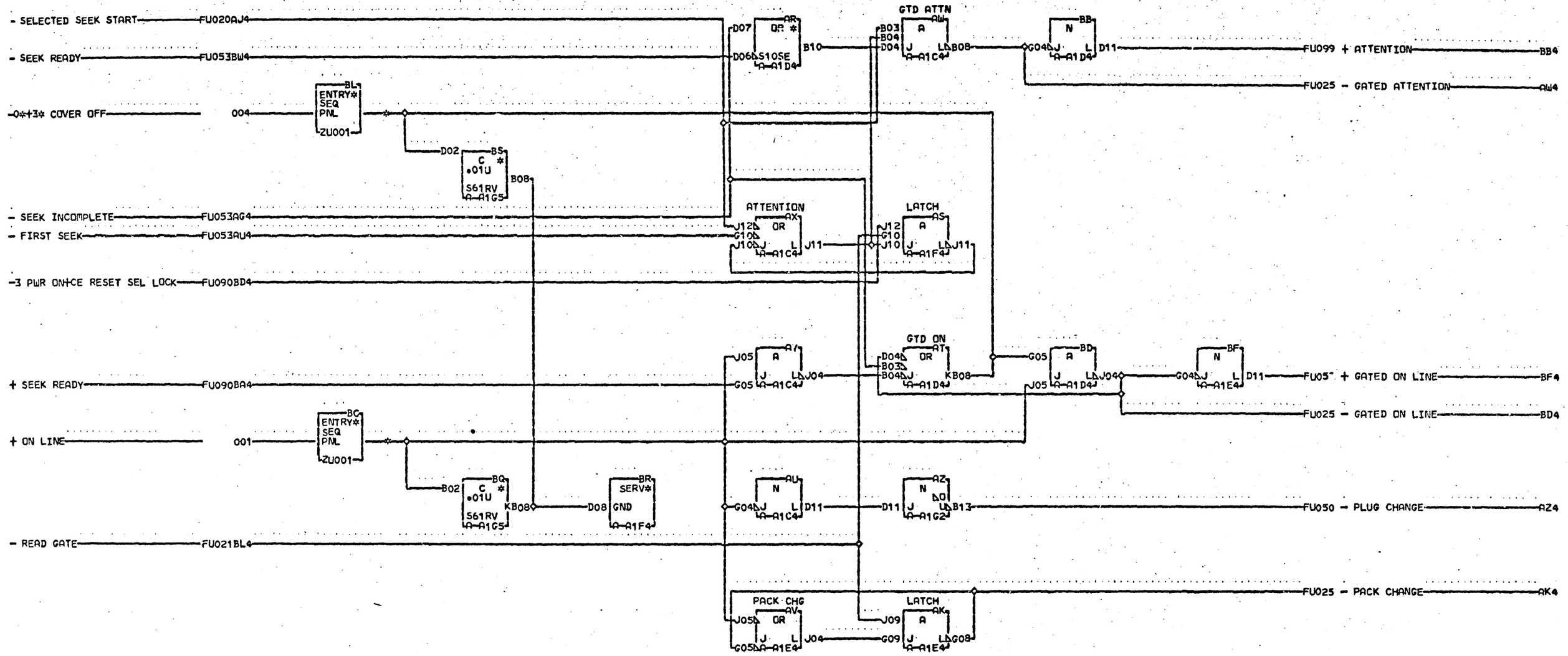
LOC.	TYPE
A-A1C4	8338
A-A1D4	8338
A-A1E4	8338
A-A1F2	7325
A-A1G2	6269

ACCESS TIMING

E.C. HISTORY	
416035	416097
416044	420832
416080	420852
416091	420925
DATE	LAST EC
07-10-67	420928

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218248

FU053 000



F
U
0
5
4
000

BC4 A-A1N4D06
BL4 A-A1N4D05

LOC.	TYPE
A-A1C4	8338
A-A1D4	8338
A-A1E4	8338
A-A1F4	8338
A-A1G2	6269
A-A1G5	8340

ON LINE AND
GATED ATTENTION

E.C. HISTORY

416044	420843
416080	420852
416097	420841
420832	420925

DATE LAST EC
08-01-67 420928

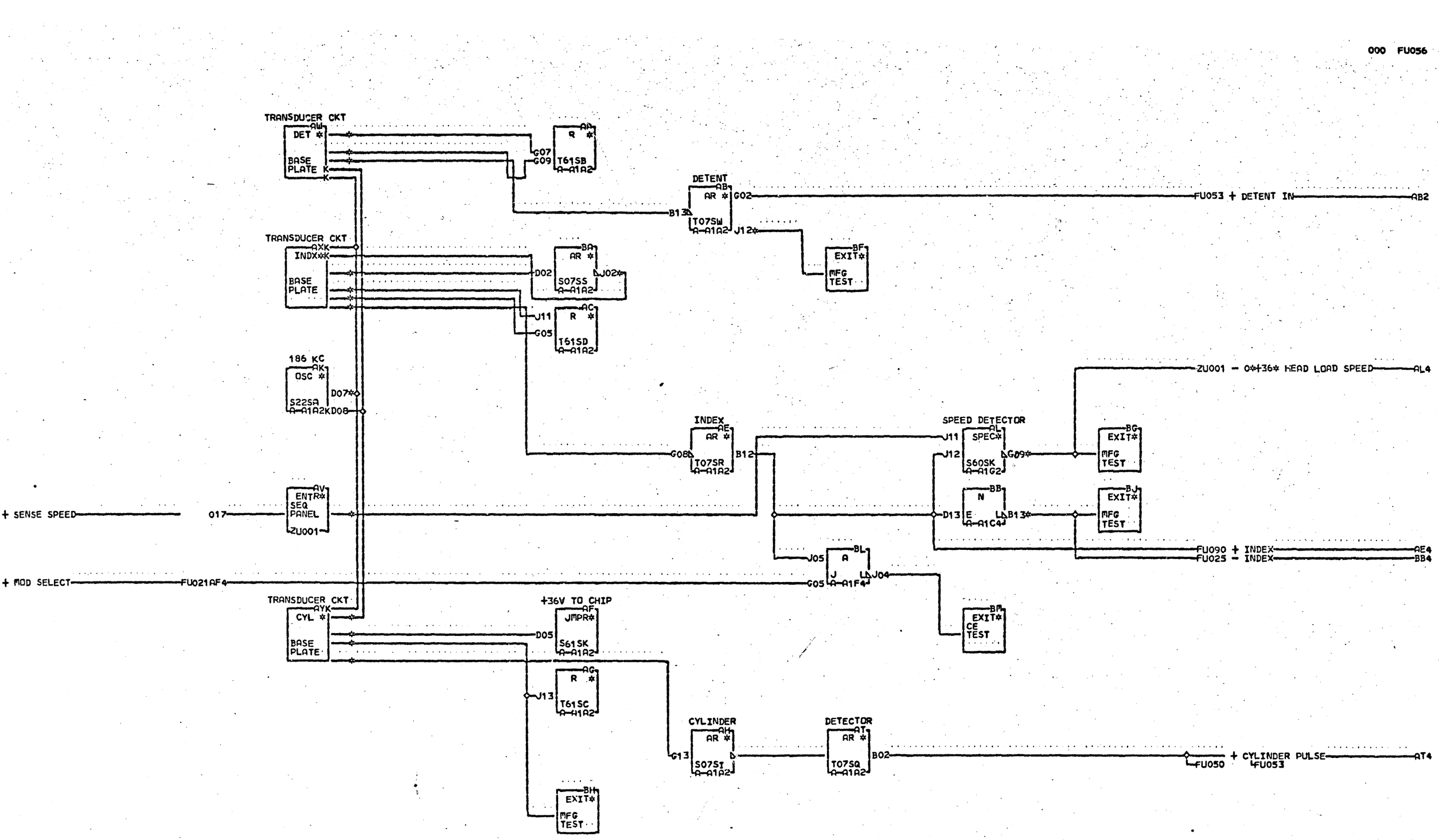
MACH. 2314

FRAME 01

IBM CORP. GPD

P.N. 2218263

F
U
0
5
4
000



NOTE
IF A TRANSISTOR CAN IS GROUNDED ON A TRANDUCER CHIP, THE TRANSDUCER WILL BE BLOWN AND A +6 OR -3 VOLT LAND MAY BE OPENED ON THE LARGE CARD

F U 0 5 6 000

AB6 A-A1B1B09
AK4 A-A1G1A11
01A-A1D1E09
01A-A1E1D09
AL4 A-A1N4B05
01A-A1B1B11
AV4 A-A1N4D12
AW2 A-A1E1E11
AW4 A-A1F1B11
AW5 A-A1E1E09
AX4 A-A1G1A09
AX6 A-A1F1B09
AX7 A-A1F1C09
AX8 A-A1F1E11
AY2 A-A1F1A09
AY4 A-A1E1C09
AY5 A-A1E1B09
01A-A1A1E11
AY7 A-A1E1B11
BA4 A-A1F1E09
BB4 A-A1B1C09

LOC.	TYPE
A-A1A2	6264
A-A1C4	8338
A-A1F4	8338
A-A1G2	6269

TRANSDUCER CIRCUIT AND SPEED DETECTOR
MACH.2314

E.C.	HISTORY
416035	420843
416044	420852
416091	420841
416097	
DATE	LAST EC
07-10-67	420928

FRAME 01
IBM CORP. GPD
P.N. 2218249

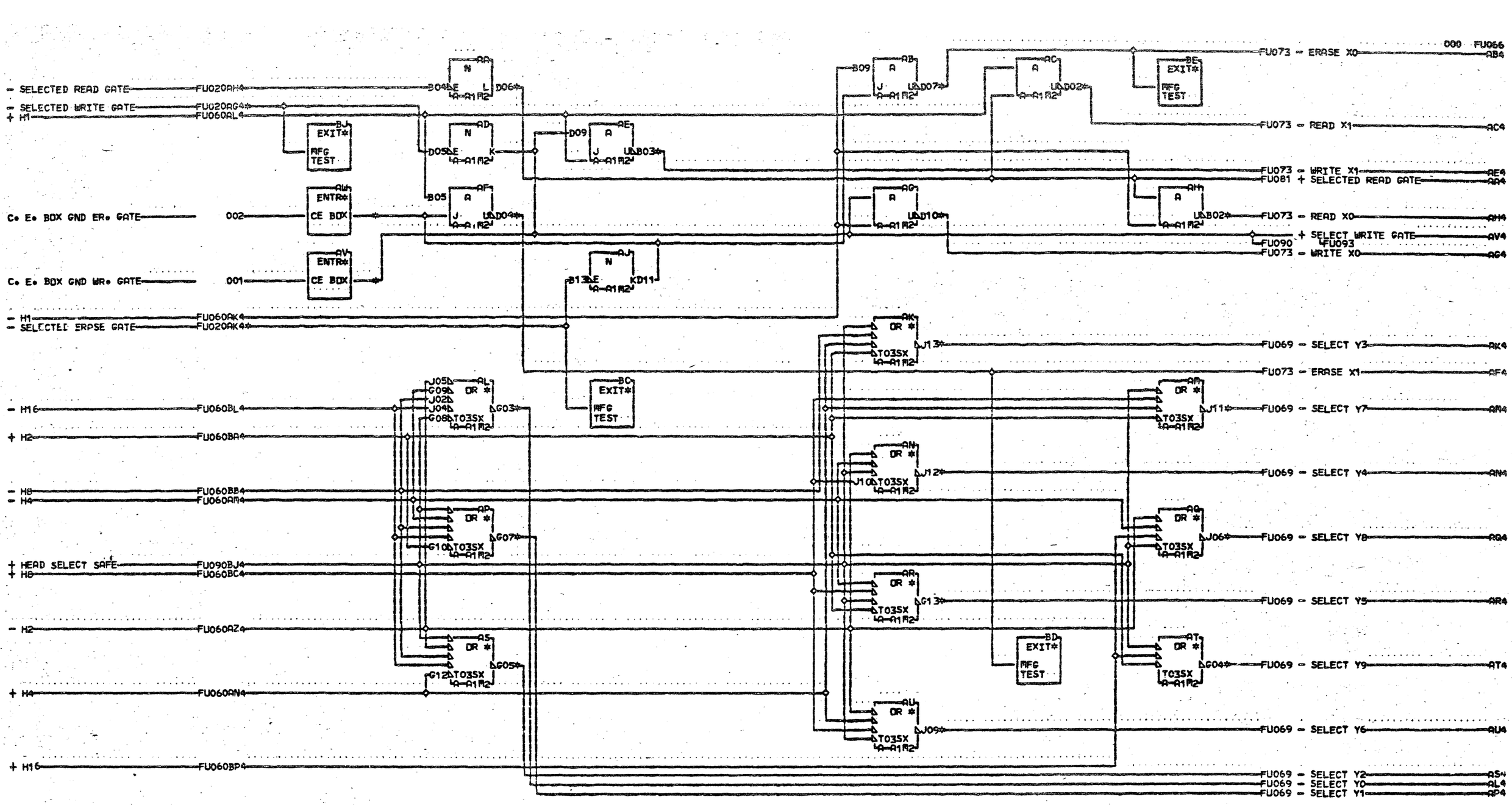
+ A1 FILE BUS 7 — FU021AC4
+ A2 FILE BUS 6 — FU021AB4
+ A4 FILE BUS 5 — FU021AA4
+ SELECTED CONTROL — FU021AQ4
+ AB FILE BUS 4 — FU020AE4
+ SET HEAD — FU021AE4
- HAR RESET — FU050BU4
+ MOD SELECT LINE 1 — FU021AP4
+ A16 FILE BUS 3 — FU020AD4

TRIGGER AE A * NS03SF A-A1E2
ONE AK A * T03SJ A-A1E2 G09
G10 AA DR J A-A1E2
AB A J A-A1E2 B09
AF A * NS03SF A-A1E2
AL DR * T03SJ A-A1E2 G07
AR N N A-A1E2
TRIGGER AV A * NS03SF A-A1E2
TWO AZ A * T03SJ A-A1E2 G05
FU066 - H1 — AK4
FU066 + H1 — AL4
FU066 — FU099
G12 A5 DR J A-A1E2
BD N N A-A1E2
FU066 + H2 — BA4
FU066 — FU099
FU066 - H2 — AZ4
TRIGGER AG A * NS03SF A-A1E2
FOUR AM A * T03SJ A-A1E2 D13
AW A * NS03SF A-A1E2
BA DR * T03SJ A-A1E2 G04
G13 AC DR J A-A1E2
AT N N A-A1E2
FU066 - H4 — AN4
TRIGGER AX A * NS03SF A-A1E2
EIGHT BB A * T03SJ A-A1E2 B13
AH A * NS03SF A-A1E2
AN DR * T03SJ A-A1E2 B12
FU050 + SELECTED SET HEAD — AP4
FU090
J13 AU DR J A-A1E2
BE A B07 B10 J L A-A1R2 B08
FU025 - SELECTED END OF CYLINDER — BE4
FU066 + H8 — BC4
FU099
FU066 - H8 — BB4
FU066 + H4 — AN4
FU099
AP A J L A-A1E2 D04 D06 B03
BJ N A-A1R2
AY A * NS03SF A-A1E2
BC CR * T03SJ A-A1E2 D12
AD A J K A-A1E2 D05 J09
FU066 - H16 — BL4
FU066 + H16 — BP4
FU099
TRIGGER BK A * NS03SF A-A1R2
SIXTEEN BL A G02 J A-A1R2
D13 BR DR J A-A1R2 D12
BN A * NS03SF A-A1R2
BP DR L A-A1R2 J07

LOC. TYPE
A-A1E2 4273
A-A1R2 6261

HEAD ADDRESS REG.
E.C. HISTORY
416035
416044
416091
DATE LAST EC
06-29-66 416097
RACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218250
FU060 000

FU060 000

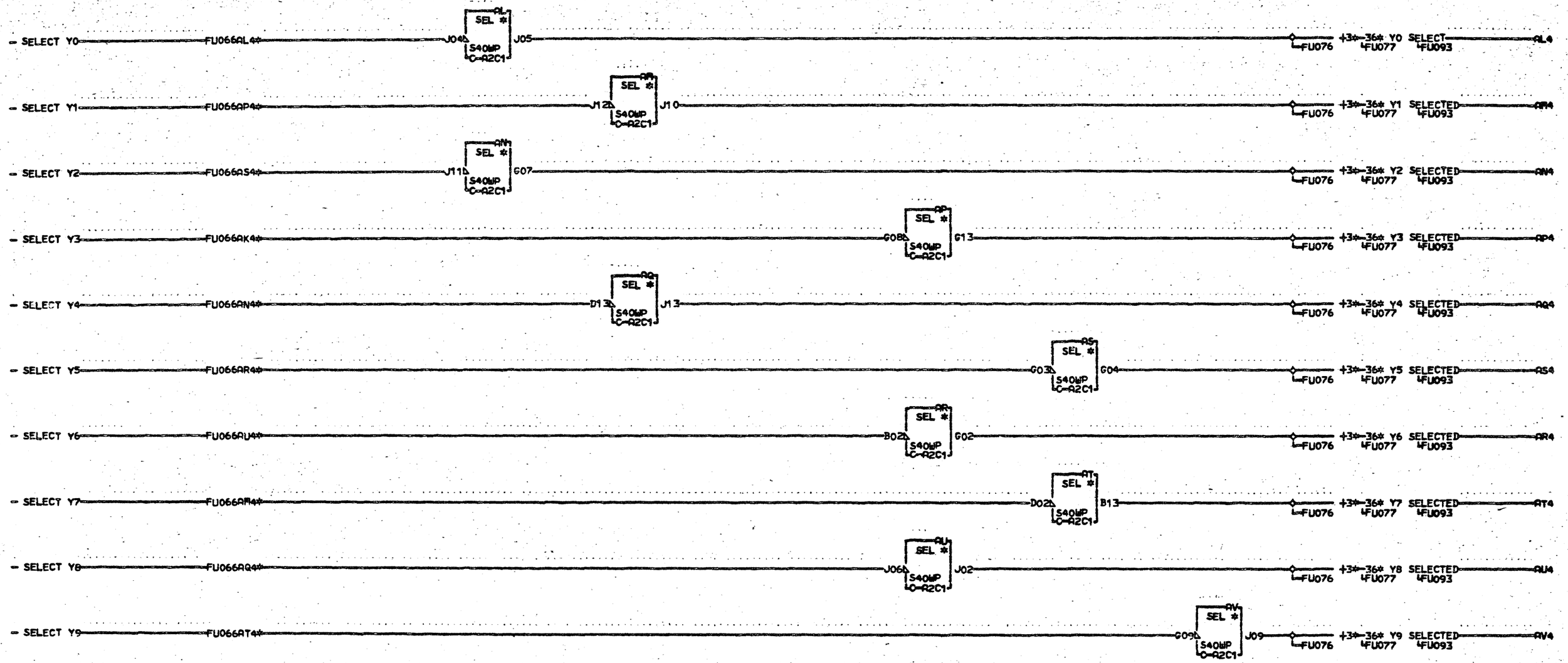


FU020AG4		AF4	A-A1N1A09	AQ4	A-A1M1B11		
	01A-A1A1E09		01A-A1D1A11	AR4	A-A1L1E11		
FU020AK4		AG4	A-A1M1E11	AS4	A-A1L1B11		
	01A-A1B1A11	AH4	A-A1M1C09	AT4	A-A1M1B09		
AA4	A-A1M1A11	AK4	A-A1L1B09	AU4	A-A1L1C09		
AB4	A-A1N1A11	AL4	A-A1K1E11	AV4	A-A1N2D07		
	01A-A1D1A09	AM4	A-A1L1E09		01A-A1L1D09		
AC4	A-A1M1C11	AN4	A-A1L1C11	AW4	A-A1N2D13		
AE4	A-A1M1E09	AP4	A-A1K1E09				

LOC. TYPE
A-A1M2 6261

HEAD ADD + DECODE	
E.C. HISTORY	MACH.2314
416035	FRAME 01
	IBM CORP. GPD
DATE LAST EC	P.N. 2218251
03-01-66 416044	

FU066 000
FU066 000



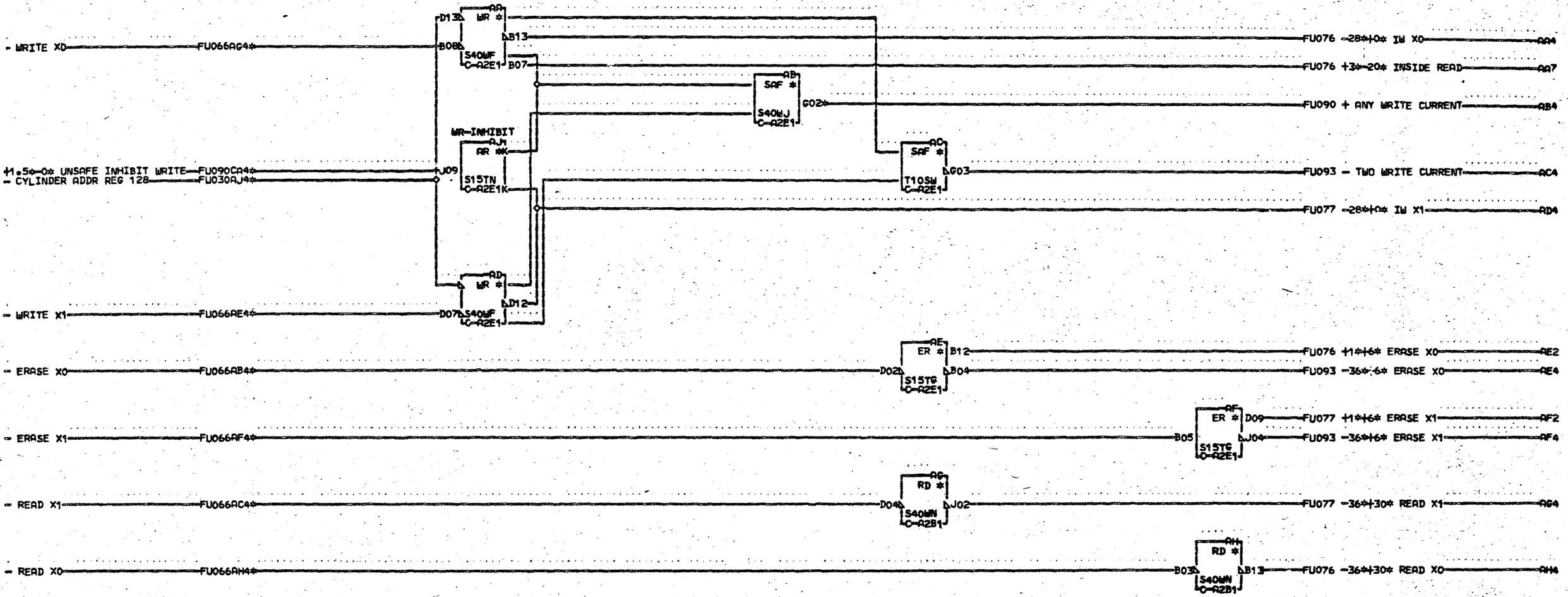
FU069
000

FU066AK4 01C-A2A2D02 FU066AU4
01C-A2A2D04 FU066AQ4 01C-A2A2D05
FU066AL4 01C-A2A2B09
01C-A2A2B02 FU066AR4
FU066AM4 01C-A2A2B07
01C-A2A2D07 FU066AS4
FU066AN4 01C-A2A2B04
01C-A2A2B05 FU066AT4
FU066AP4 01C-A2A2D09

LOC. TYPE
C-A2C1 6268

Y SELECT 0-9
E.C. HISTORY 416035A
MACH. 2314
FRAME 01
IBM CORP. GPD
DATE LAST EC
03-04-66 416044
P.N. 2218252

FU069
000



FU073
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FU030AJ4 01C-A2A2D13
01C-A2A2B03 FU066AG4
FU066AB4 01C-A2A2B12
01C-A2A2B13 FU066AH4
FU066AC4 01C-A2A2D10
01C-A2A2B10 FU090CA4
FU066AE4 01C-A2A1B09
01C-A2A2D12 AB4 C-A2A1B12
FU066AF4

LOC.	TYPE
C-A2B1	6846
C-A2E1	6277

WRITE0 READ + ERASE

E.C.-HISTORY
416035A
416044
416096
420832

DATE LAST EC
06-06-67 420927

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218253

FU073
000

-28TO-27PPAC* WR. TRIGGER B — FU081AB4 — B05
-27TO-28PPAC* WR. TRIGGER A — FU081AB2 — D05
-28*+0* IW X0 — FU073AA4 — D07

AB AR-AD* B07 WL X S16SJ C-A2F1 — FU077 +3 TO +4PPAC WR.TRANSITION — AB2

+3*-36* Y0 SELECT — FU069AL4
+3*-36* Y1 SELECTED — FU069AM4
+3*-36* Y2 SELECTED — FU069AN4
+3*-36* Y3 SELECTED — FU069AP4
+1*+6* ERASE X0 — FU073AE2
+3*-36* Y4 SELECTED — FU069AQ4
+3*-36* Y5 SELECTED — FU069AS4
-36*+30* READ X0 — FU073AH4
+3*-36* Y6 SELECTED — FU069AR4
+3*-36* Y7 SELECTED — FU069AT4
+3*-36* Y8 SELECTED — FU069AU4
+3*-36* Y9 SELECTED — FU069AV4
+3*-20* INSIDE READ — FU073AA7

Y0X0 AD *X MATRIX WL G07 J05 B02 S61XN C-A2F1 B13 D13
Y1X0 AG *X MATRIX G12 S61XN K C-A2F1K
Y2X0 AK *X MATRIX G05 S61XN K C-A2F1K
Y3X0 AN *X MATRIX G13 S61XN K C-A2F1K
Y4X0 AR *X MATRIX J13 S61XN K C-A2F1K
Y5X0 AX *X MATRIX G04 S61XN K C-A2F1K
Y6X0 AV *X MATRIX G03 S61XN K C-A2F1K
Y7X0 BA *X MATRIX G02 S61XN K C-A2F1K
Y8X0 BD *X MATRIX J02 S61XN K C-A2F1K
Y9X0 BG *X MATRIX G10 S61XN K C-A2F1K

BP SPEC* K S40YI C-A2F1 — B12

HEAD PLUG 0 — AE X PLUG* 7332 C-A2F1
HEAD PLUG 2 — AH X PLUG* 7332 C-A2F1
HEAD PLUG 4 — AL X PLUG* 7332 C-A2F1
HEAD PLUG 6 — AP X PLUG* 7332 C-A2F1
HEAD PLUG 8 — AS X PLUG* 7332 C-A2F1
HEAD PLUG 10 — AV X PLUG* 7332 C-A2F1
HEAD PLUG 12 — AY X PLUG* 7332 C-A2F1
HEAD PLUG 14 — BB X PLUG* 7332 C-A2F1
HEAD PLUG 16 — BE X PLUG* 7332 C-A2F1
HEAD PLUG 18 — BH X PLUG* 7332 C-A2F1

FU081 +1*+5* READ SIGNAL A — AD5
FU081 +1*+5* READ SIGNAL B — AD6

LOC. TYPE
C-A2F1 7332

WRITE DRIVER + MATRIX EVEN

E.C. HISTORY
416035A
416044

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218254

DATE LAST EC
08-10-66 416096

FU076 000

FU076 000

-27TD-28PPAC* WR. TRIGGER A — FU081AB2 — D05
-28TD-27PPAC* WR. TRIGGER B — FU081AB4 — B05
-28+10* IW X1 — FU073AD4 — D06

S16SJ C-A2F1 — AR MD* WL X — B08

DOT — DR * — BC4 — FU093 +3TD+4PPAC* WR TRANSITION

+3 TO +4PPAC WR.TRANSITION — FU076AB2

+3*-36* Y0 SELECT — FU069AL4
+3*-36* Y1 SELECT — FU069AM4
+3*-36* Y2 SELECT — FU069AN4
+3*-36* Y3 SELECT — FU069AP4
+1*+6* ERASE X1 — FU073AF2
+3*-36* Y4 SELECT — FU069AQ4
+3*-36* Y5 SELECT — FU069AS4
-36+30* READ X1 — FU073AG4
+3*-36* Y6 SELECT — FU069AR4
+3*-36* Y7 SELECT — FU069AT4
+3*-36* Y8 SELECT — FU069AU4
+3*-36* Y9 SELECT — FU069AV4

Y0X1 — AC — MATRIX WL — J05 S61XN B13 D13 C-A2F1
Y1X1 — AE — MATRIX — G12 S61XN K C-A2F1K
Y2X1 — AG — MATRIX — G05 S61XN K C-A2F1K
Y3X1 — AJ — MATRIX — G13 S61XN K C-A2F1K
Y4X1 — AL — MATRIX — J13 S61XN K C-A2F1K
Y5X1 — AG — MATRIX — G04 S61XN K C-A2F1K
Y6X1 — AN — MATRIX — G03 S61XN K C-A2F1K
Y7X1 — AS — MATRIX — G02 S61XN K C-A2F1K
Y8X1 — AU — MATRIX — JC2 S61XN K C-A2F1K
Y9X1 — AU — MATRIX — J06 S61XN K G10 D10 C-A2F1K

HEAD PLUG 1 — AD — X PLUG* — 7332 C-A2F1
HEAD PLUG 3 — AF — X PLUG* — 7332 C-A2F1
HEAD PLUG 5 — AH — X PLUG* — 7332 C-A2F1
HEAD PLUG 7 — AK — X PLUG* — 7332 C-A2F1
HEAD PLUG 9 — AP — X PLUG* — 7332 C-A2F1
HEAD PLUG 11 — AP — X PLUG* — 7332 C-A2F1
HEAD PLUG 13 — AR — X PLUG* — 7332 C-A2F1
HEAD PLUG 15 — AT — X PLUG* — 7332 C-A2F1
HEAD PLUG 17 — AV — X PLUG* — 7332 C-A2F1
HEAD PLUG 19 — AX — X PLUG* — 7332 C-A2F1

FU081 +1*+5* READ SIGNAL B — AC6
FU081 +1*+5* READ SIGNAL A — AC5

LOC. TYPE
C-A2F1 7332

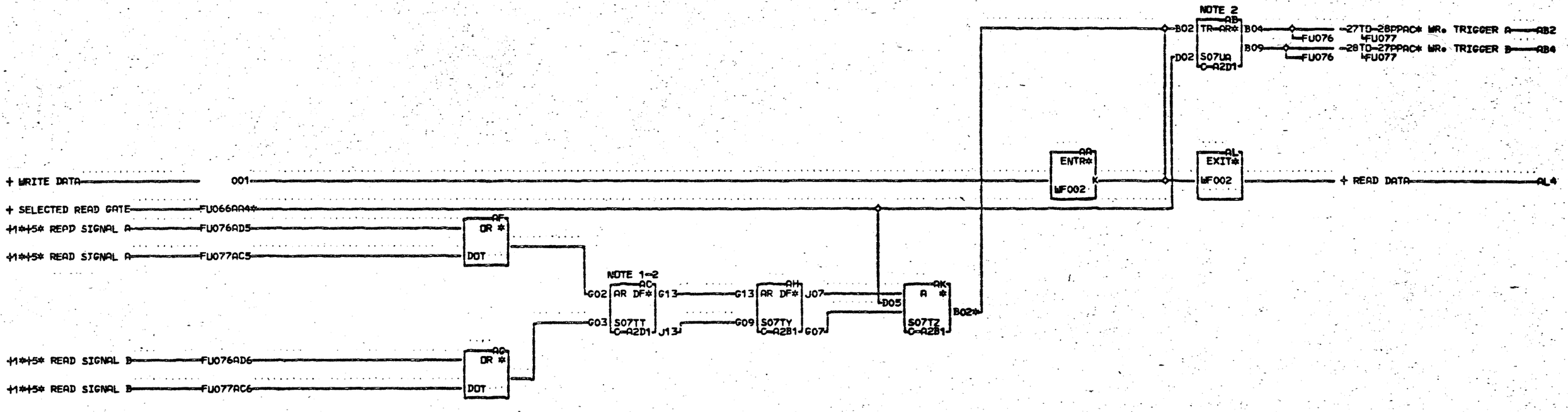
WRITE DRIVER + MATRIX ODD

E.C. HISTORY
416035A
416044

DATE LAST EC
08-10-66 416096

MACH.2314
FRAME 01
IBM CORP. GPD
P.N. 2218255

FU077 000



NOTE 1 JUMPER D1G12 TO D1J12
WHEN MAKING RADIAL ALIGNMENT OF HEADS. THIS JUMPER MUST BE REMOVED WHEN ADJUSTMENT IS COMPLETED. NOTE 2 PN 5806387 MAY BE SUBSTITUTED FOR 5606836 IN LOCATION D1

FU066AA4
01 C-A2A2B08
AK4 C-A2A1B02

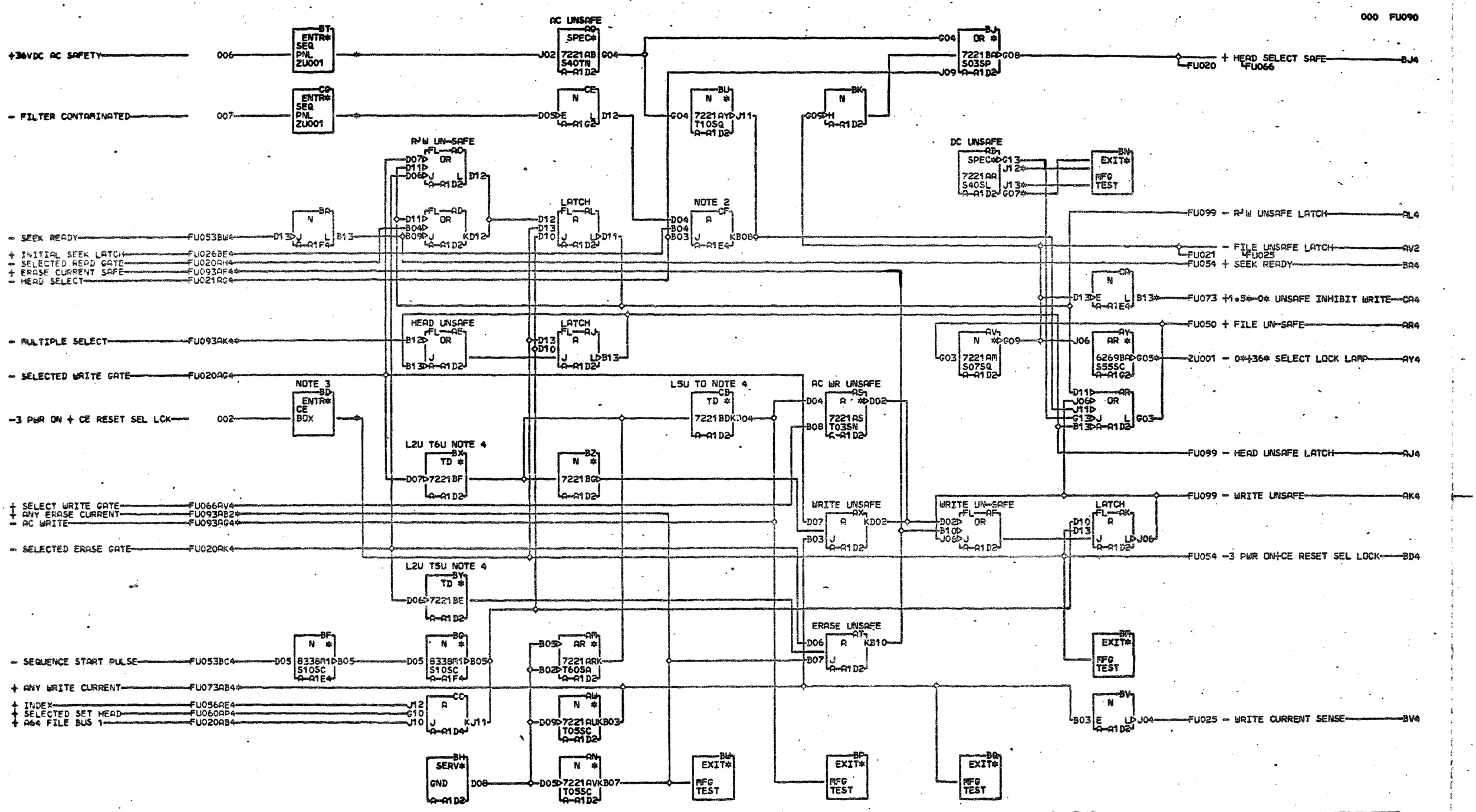
000

LOC.	TYPE
C-A2B1	6846
C-A2D1	6836

PRE-AMP + WRITE TRIGGER

E.C.-HISTORY	
416035A	MACH.2314
416044	FRAME 01
416096	
420832	IBM CORP. GPD
DATE LAST EC	
06-06-67 420927	P.N. 2218256

FU081 000



NOTE•1 TO TIE OFF SELECT LOCK LATCHES◊ GROUND D2D10•

F NOTE 2 WIRING FOR VACUUM U SWITCH MACHINES ONLY

0 NOTE 3• THIS LINE ALSO RESETS 9 THE ATTENTION LATCH•

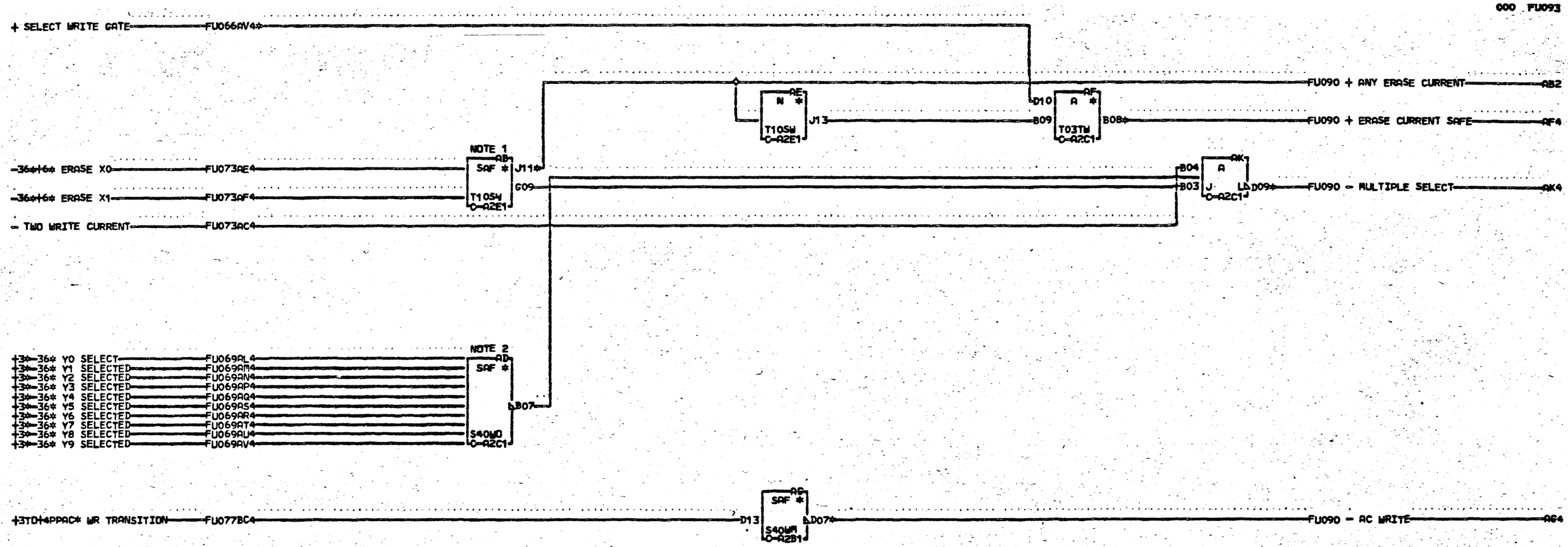
0 NOTE 4 TD BLOCK TITLE MEANS OUTPUT LEADING EDGE DELAYED X 000MICRO SECONDS • TRAILING EDGE DELAYED X MICRO SECONDS

FU073AB4	01A-A1J1D09	01A-A1N2D11	
01A-A1J1E11	01A-A1C1A11	BT4	A-A1N4D13
01A-A1C1B09	FU093AK4	CA4	A-A1J1B11
FU093AB2	01A-A1J1E09	CG4	A-A1N4B02
01A-A1K1A09	AB3	A-A1C1B11	RESISTOR
01A-A1C1E09	AB5	A-A1C1C09	A-A162B10
FU093AF4	AB6	A-A1C1C11	
01A-A1K1A11	AY4	A-A1N4D02	
FU093AG4	BD4	A-A1B1E11	

LOC•	TYPE
A-A1D2	7221
A-A1D4	8338
A-A1E4	8338
A-A1F4	8338
A-A102	6269

SAFETY CIRCUIT			
—E•C•—HISTORY—		MACH•2314	
416080	420852		
416091	420841	FRAME	01
416097	420925		
416128	420928	IBM CORP• GPD	
DATE	LAST EC		
06-10-68	424000	P•N• 2218257	

FU090 000



NOTE 1 TEST POINT
E1G09 IS - TWO
F ERASE CURRENTS
U NOTE 2 TEST POINT
0 C1B07 IS - MORE THAN
9 ONE Y SELECTED.
3

000

FU066AV4
01 C-A2A2D06
AB2 C-A2A1D13
AF4 C-A2A1B13
AG4 C-A2A1D11
AK4 C-A2A1D12

LOC.	TYPE
C-A2B1	6846
C-A2C1	6268
C-A2E1	6277

READ ERASE + Y SELECT SAFETY CKT.

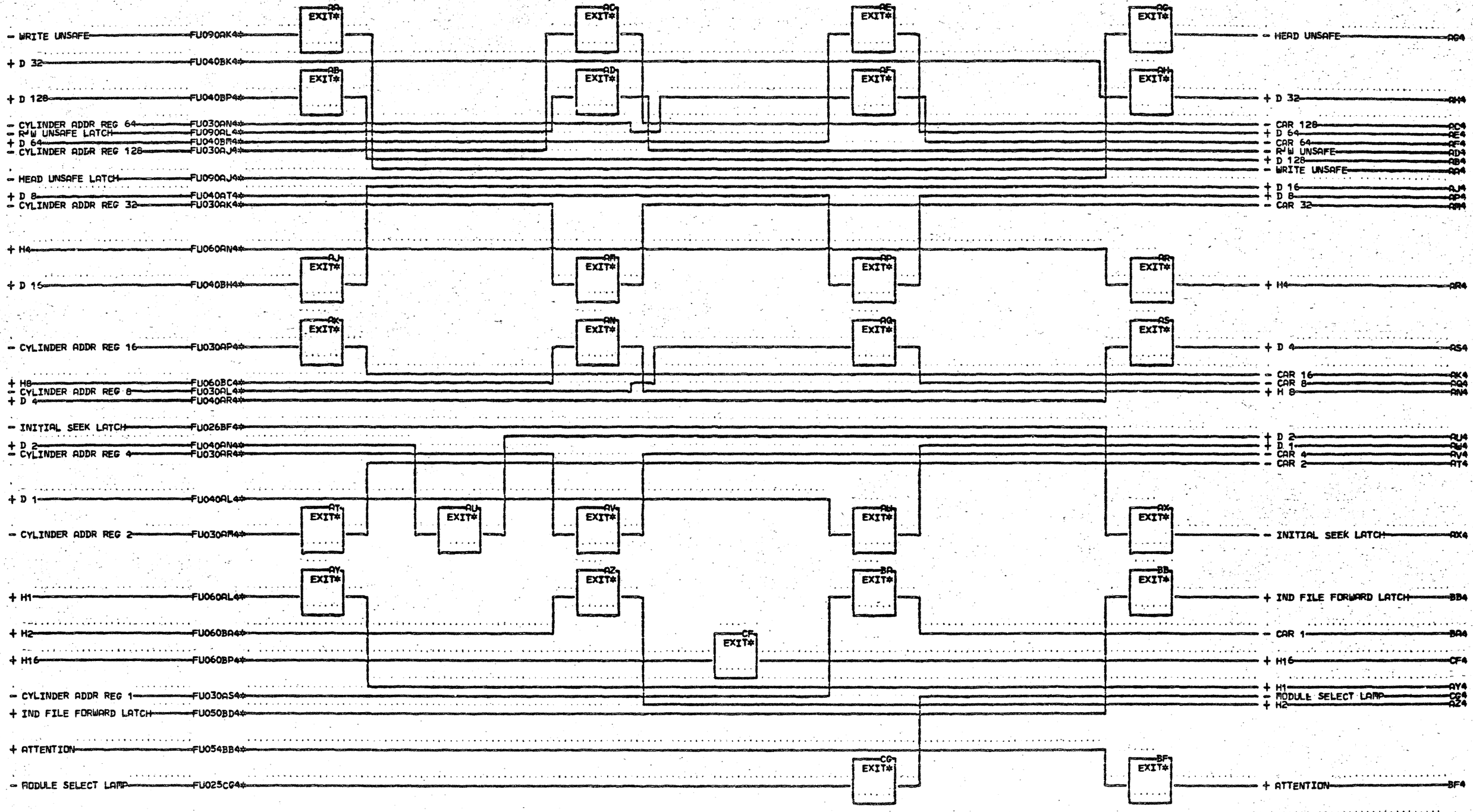
—E.C.— HISTORY

416035A
416044
416096
420832

DATE LAST EC
06-06-67 420927

RACH.2314
FRAME 01
IBM CORP. GPD
P.No. 2218258

FU093 000



FU099 000

FU025CG4 01A-A1C2D05 FU030AS4 01A-A1C3B04 FU050BD4 01A-A1C3D04 FU090AL4 01A-A1C2D04
01A-A1C2D11 FU030AM4 01A-A1C2D10 FU040BH4 01A-A1C3D11 FU060BC4
FU026BF4 01A-A1C2D09 FU040AL4 01A-A1C3D09 FU054BB4 01A-A1C3B07
01A-A1C3B10 FU030AN4 01A-A1C3B09 FU040BK4 01A-A1C3B12 FU060BP4
FU030AJ4 01A-A1C2B07 FU040AN4 01A-A1C2D12 FU060AL4 01A-A1C3D12
01A-A1C2B13 FU030AP4 01A-A1C3D05 FU040BM4 01A-A1C3D07 FU090AJ4
FU030AK4 01A-A1C2D13 FU040AR4 01A-A1C2D06 FU060AN4 01A-A1C2B09
01A-A1C2B10 FU030AR4 01A-A1C3D02 FU040BP4 01A-A1C3B02 FU090AK4
FU030AL4 01A-A1C2B04 FU040AT4 01A-A1C2B02 FU060BA4 01A-A1C2D02

C.E. INDICATOR

E.C. HISTORY 416035

DATE 03-01-66 LAST EC 416044

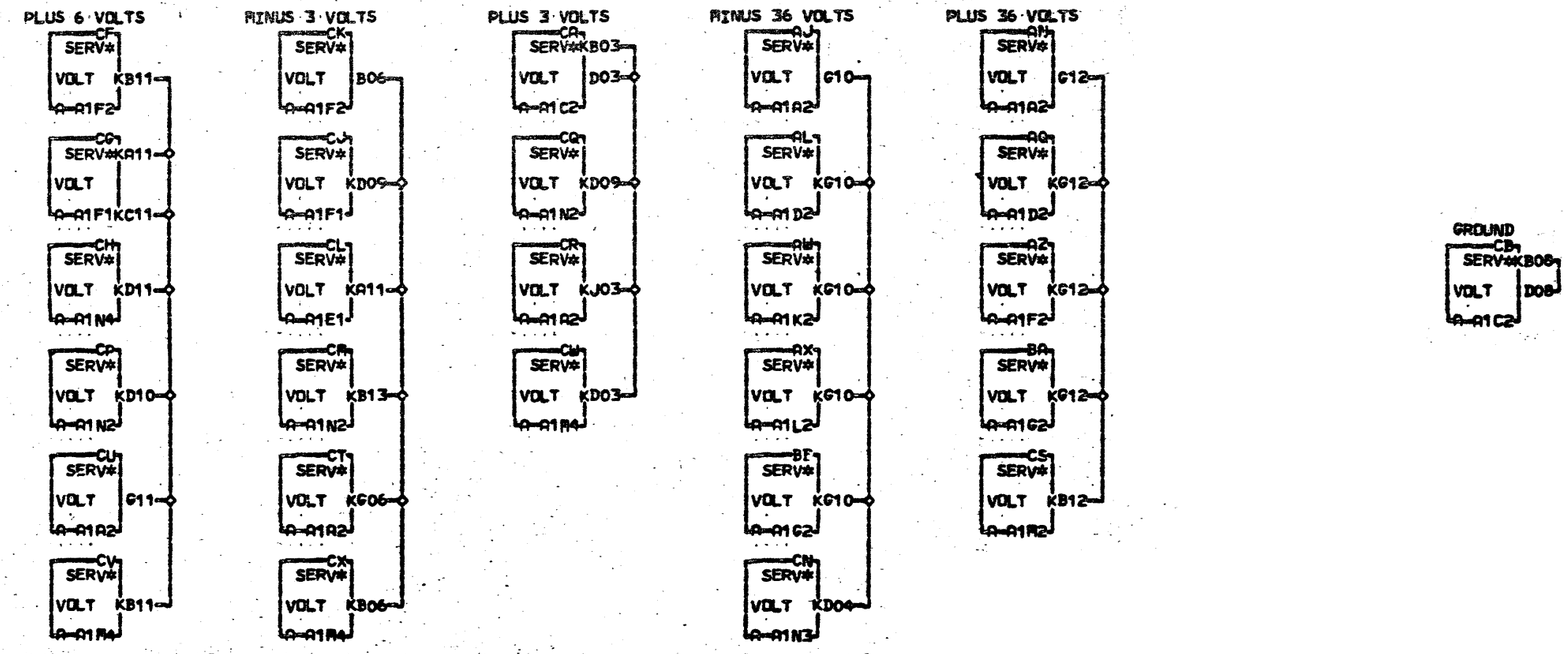
MACH 2314

FRAME 01

IBM CORP. GPD

P.N. 2218259

FU099 000



FU120 000

SERVICE VOLTAGE BOARD A-A1

E.C. HISTORY
416035

DATE LAST EC
01-12-66 416044

RACH.2314

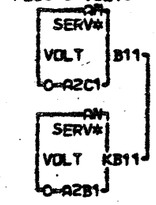
FRAME 01

IBM CORP. GPD

P.No. 2218260

FU120 000

PLUS 6 VOLTS

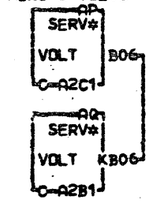


D1 B11 G11

E1 B11 G11

F1 B11 G11

MINU 3 VOLTS

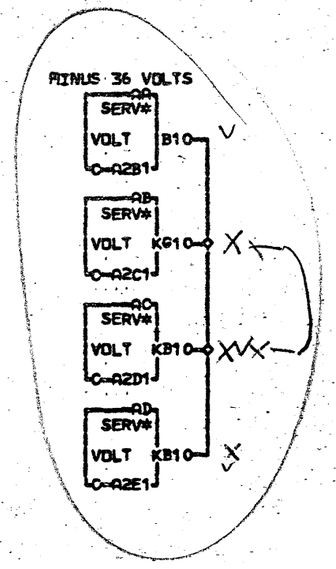


E1 B06

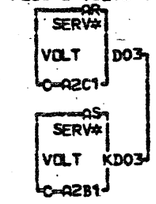
D1 -

F1 -

MINUS 36 VOLTS



PLUS 3 VOLTS

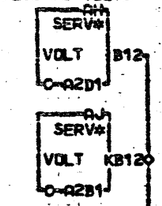


E1

D1

F1

PLUS 36 VOLTS



SERVICE VOLTAGE BOARD C-A2

—E.C.—HISTORY—
416035A

DATE LAST EC
04-22-66 416080

MACH.2314

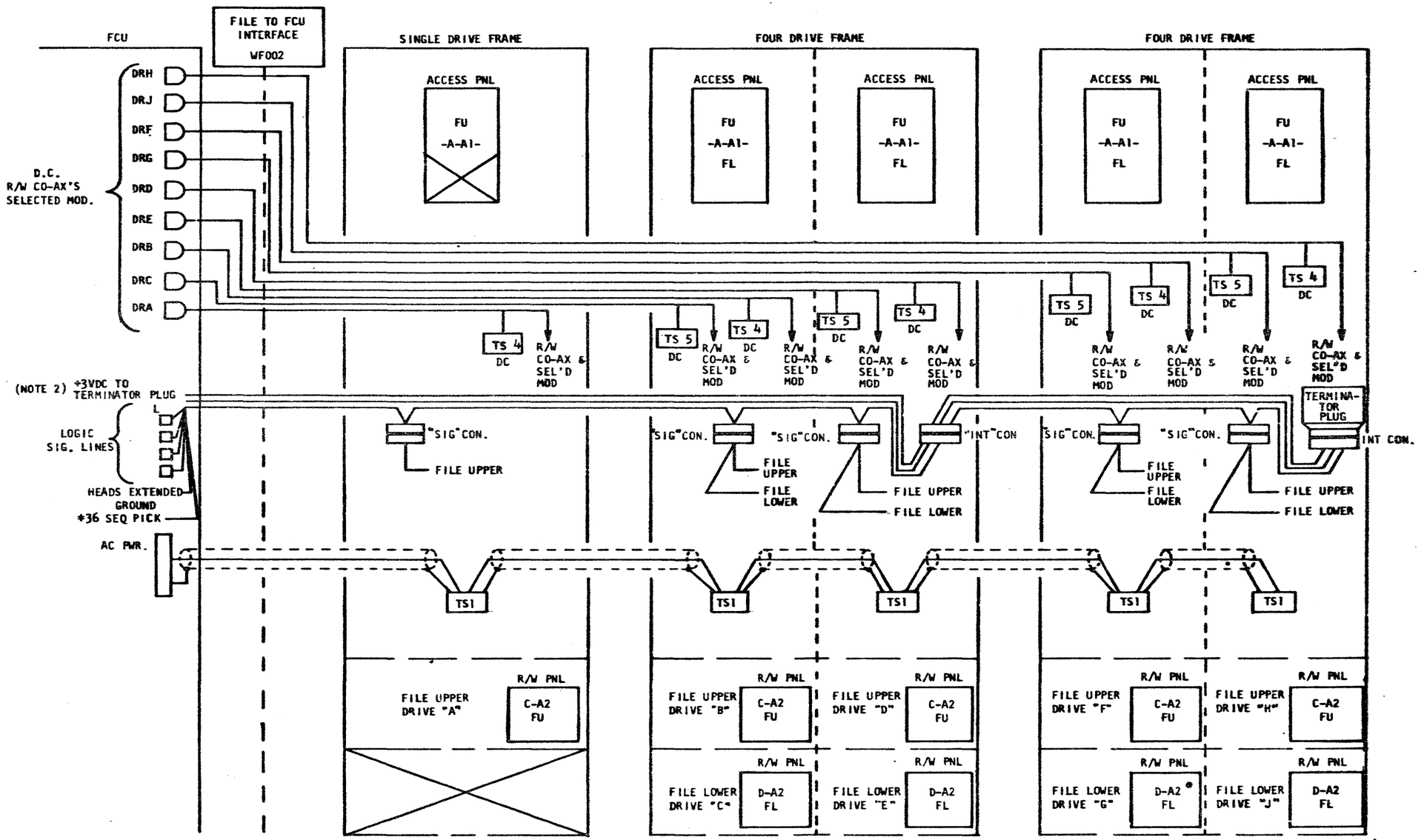
FRAME 01

IBM CORP. GPD

P.No. 2218261

FU122 000

000 MINUS



NOTES:

1. ONE SET OF LOGICS ARE PROVIDED FOR ONE FILE UPPER AND ONE FILE LOWER BUT ARE APPLICABLE TO THE ENTIRE FILE.
2. +3VDC IS CARRIED IN THE SIGNAL CABLE THRU THE "INT" CONNECTORS TO THE TERMINATOR PLUG ONLY.

DATE	EC NUMBER	DATE	EC NUMBER	2314 FILE DRIVE & INTERFACE CABLE LAYOUT			
APR66	416034			DATE		P/N	2218331
						TYPE	
				IBM		WF001	

FCU TO FILE TO FILE

FROM WF011 LINE TITLE	FCU LOGIC PAGE		SIG. CONNECTOR PIN	SIG. CONNECTOR TWISTED WIRE	FILE LOGIC PAGES	FILE FD'S	FILE LINE TITLE
FILE BUS 0	WF011		SIG - A	SIG - B	FL/FU020	FD101	-2.5* +1.5* FILE BUS 0
FILE BUS 1	WF011		SIG - C	SIG - D	FL/FU020	FD101	-2.5* +1.5* FILE BUS 1
FILE BUS 2	WF011		SIG - E	SIG - F	FL/FU020	FD101	-2.5* +1.5* FILE BUS 2
FILE BUS 3	WF011		SIG - H	SIG - J	FL/FU020	FD101	-2.5* +1.5* FILE BUS 3
FILE BUS 4	WF011		SIG - K	SIG - L	FL/FU020	FD101	-2.5* +1.5* FILE BUS 4
FILE BUS 5	WF011		SIG - M	SIG - N	FL/FU021	FD101	-2.5* +1.5* FILE BUS 5
FILE BUS 6	WF011		SIG - P	SIG - R	FL/FU021	FD101	-2.5* +1.5* FILE BUS 6
FILE BUS 7	WF011		SIG - S	SIG - T	FL/FU021	FD101	-2.5* +1.5* FILE BUS 7
SET DIFFERENCE	WF011		SIG - U	SIG - V	FU/FL021	FD101	-2.5* +1.5* SET DIFFERENCE
SET CYLINDER	WF011		SIG - W	SIG - X	FU/FL021	FD101	-2.5* +1.5* SET CYLINDER
SET HEAD	WF011		SIG - Y	SIG - Z	FU/FL021	FD101	-2.5* +1.5* SET HD + DIRECTION
CONTROL	WF011		SIG - a	SIG - b	FU/FL021	FD101	-2.5* +1.5* CONTROL
MOD 0 SELECT	WF011		SIG - c	SIG - d	YB001		MOD 0 SELECT
MOD 1 SELECT	WF011		SIG - f	SIG - g	YB001		MOD 1 SELECT
MOD 2 SELECT	WF011		SIG - h	SIG - i	YB001		MOD 2 SELECT
MOD 3 SELECT	WF011		SIG - j	SIG - k	YB001		MOD 3 SELECT
MOD 4 SELECT	WF011		SIG - m	SIG - n	YB001		MOD 4 SELECT
MOD 5 SELECT	WF011		SIG - p	SIG - q	YB001		MOD 5 SELECT
MOD 6 SELECT	WF011		SIG - r	SIG - s	YB001		MOD 6 SELECT
MOD 7 SELECT	WF011		SIG - t	SIG - u	YB001		MOD 7 SELECT
SPARE MOD SELECT	WF011		SIG - v	SIG - w	YB001		SPARE MOD SELECT
CONTROLLED GND FROM FCU	WF011		SIG - CK	- -	YB001		CONTROLLED GND FROM FCU
SEQUENCE PICK IN	WF011	NOTE 3	SIG - CL	- -	YB001		SEQ. PICK (INCOMING) NOTE 3
+3 FILE TERMINATOR	WF011		INT - AT	- -	WF001		+3V DC } NOTE 2
			INT - AU	- -			+3V DC } NOTE 2
AC POWER	WF011		TS 1	- -	YA001		208V AC - 3 PHASE
+36	WF011	NOTE 4	TS 4/5	- -	YB001		+36
-36	WF011	NOTE 4	TS 4/5	- -	YB001		-36
+6	WF011	NOTE 4	TS 4/5	- -	YB001		+6
+3	WF011	NOTE 4	TS 4/5	- -	YB001		+3
-3	WF011	NOTE 4	TS 4/5	- -	YB001		-3
GND	WF011	NOTE 4	TS 4/5	- -	YB001		GND
-3 PWR ON RESET	WF011		SIG - BP		FU/FL090	FD103	-3 PWR ON RESET + C.E. RESET SELECT LOCK
READ/WRITE COAX	WF011	NOTE 4	R/W BOARD		YB001	FD102	READ/WRITE COAX
SELECTED MODULE	WF011	NOTE 4	EDGE CONN		YB001	FD101	SELECTED MODULE
FILE TO FILE TO FCU							
GATED ATTENTION 0	WF011		SIG - x	SIG - y	YB001		GATED ATTENTION 0
GATED ATTENTION 1	WF011		SIG - z	SIG - AA	YB001		GATED ATTENTION 1
GATED ATTENTION 2	WF011		SIG - AB	SIG - AC	YB001		GATED ATTENTION 2
GATED ATTENTION 3	WF011		SIG - AD	SIG - AE	YB001		GATED ATTENTION 3
GATED ATTENTION 4	WF011		SIG - AF	SIG - AH	YB001		GATED ATTENTION 4
GATED ATTENTION 5	WF011		SIG - AJ	SIG - AK	YB001		GATED ATTENTION 5
GATED ATTENTION 6	WF011		SIG - AL	SIG - AM	YB001		GATED ATTENTION 6
GATED ATTENTION 7	WF011		SIG - AN	SIG - AP	YB001		GATED ATTENTION 7
GATED ATTENTION SPARE MOD	WF011		SIG - AR	SIG - AS	YB001		GATED ATTENTION SPARE MOD
NOTE 6				SIG - AW			
CYLINDER ADDR REG 1	WF011		SIG - AX	SIG - AY	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 1
CYLINDER ADDR REG 2	WF011		SIG - AZ	SIG - BA	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 2
CYLINDER ADDR REG 4	WF011		SIG - BB	SIG - BC	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 4
CYLINDER ADDR REG 8	WF011		SIG - BD	SIG - BE	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 8
CYLINDER ADDR REG 16	WF011		SIG - BF	SIG - BH	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 16
CYLINDER ADDR REG 32	WF011		SIG - BJ	SIG - BK	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 32
CYLINDER ADDR REG 64	WF011		SIG - BL	SIG - BM	FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 64
CYLINDER ADDR REG 128	WF011		SIG - BN		FU/FL026	FD101	-2.5* +1.5* CYL ADDR REG 128
SELECTED FILE BUSY	WF011		SIG - BR	SIG - BS	FU/FL025	FD104	-2.5* +1.5* SEL FILE BUSY
SELECTED ON LINE	WF011		SIG - BT	SIG - BU	FU/FL025	FD104	-2.5* +1.5* SEL ON LINE
SELECTED INDEX	WF011		SIG - BV	SIG - BW	FU/FL025	FD104	-2.5* +1.5* SEL INDEX
FILE UNSAFE	WF011		SIG - BX	SIG - BY	FU/FL025	FD104	-2.5* +1.5* FILE UNSAFE
SELECTED SEEK INCOMP	WF011		SIG - BZ	SIG - CA	FU/FL025	FD104	-2.5* +1.5* SEL SK INCOMP
SELECTED END OF CYL	WF011		SIG - CB	SIG - CC	FU/FL025	FD104	-2.5* +1.5* SEL END OF CYL
SELECTED PACK CHANGE	WF011		SIG - CD	SIG - CE	FU/FL025	FD104	-2.5* +1.5* SEL PACK CHG
WRITE CURRENT SENSE	WF011		SIG - CF	SIG - CH	FU/FL025		-2.5* +1.5* WR CURRENT SNS
HEADS EXTENDED	WF011		SIG - CJ	- -	YB001		HEADS EXTENDED
			SIG - CM		YB001		SEQUENCE PICK (OUTGOING)
							(TO NEXT FILE FRAME)
NOTE 6			SIG - CS	- -			
* -3V	WF011				YB003		-3V
* +6V	WF011				YB003		+6V
* -3V	WF011	NOT USED			YB003		-3V
* -ENABLE A	WF011	WITH REMOTE			YB003		-ENABLE A
* -DISABLE A	WF011	ATTACHMENT			YB003		-DISABLE A
* -ENABLE B	WF011	SWITCH			YB003		-ENABLE B
* -DISABLE B	WF011	FEATURE			YB003		-DISABLE B
* +6 TO -3 MULTI-TAG SW	WF011				YB003		+6 TO -3 MULTI-TAG SW

NOTES:
1. FOR CABLE INTERFACE LAYOUT SEE LOGIC PAGE WF001
2. THE "INT" CONNECTOR CARRIES ALL THE SIGNALS THAT THE "SIG" CONNECTORS CARRY PLUS TWO +3V DC LINES FOR THE FILE TERMINATOR PLUG.
3. SEQUENCE PICK (INCOMING) MAY BE FROM THE FCU OR FROM "SIG-CM" - SEQUENCE PICK OUTGOING OF THE PRECEDING FILE FRAME.
4. THESE LINES OCCUR NINE (9) TIMES, ONCE TO EACH FILE DRIVE.
5. OPTIONAL FEATURE TWO CHANNEL SWITCH
6. JUMPERS WITH MALE PINS BETWEEN AW AND CS IN FEMALE CONNECTORS ARE NON-FUNCTIONAL - TO ENSURE CORRECT PLUGGING ONLY

DATE	EC NUMBER
APR 66	416034
JUN 66	416124
AUG 66	416128
DEC 66	420637
1APR68	422947

DATE	EC NUMBER
1AUG68	420946

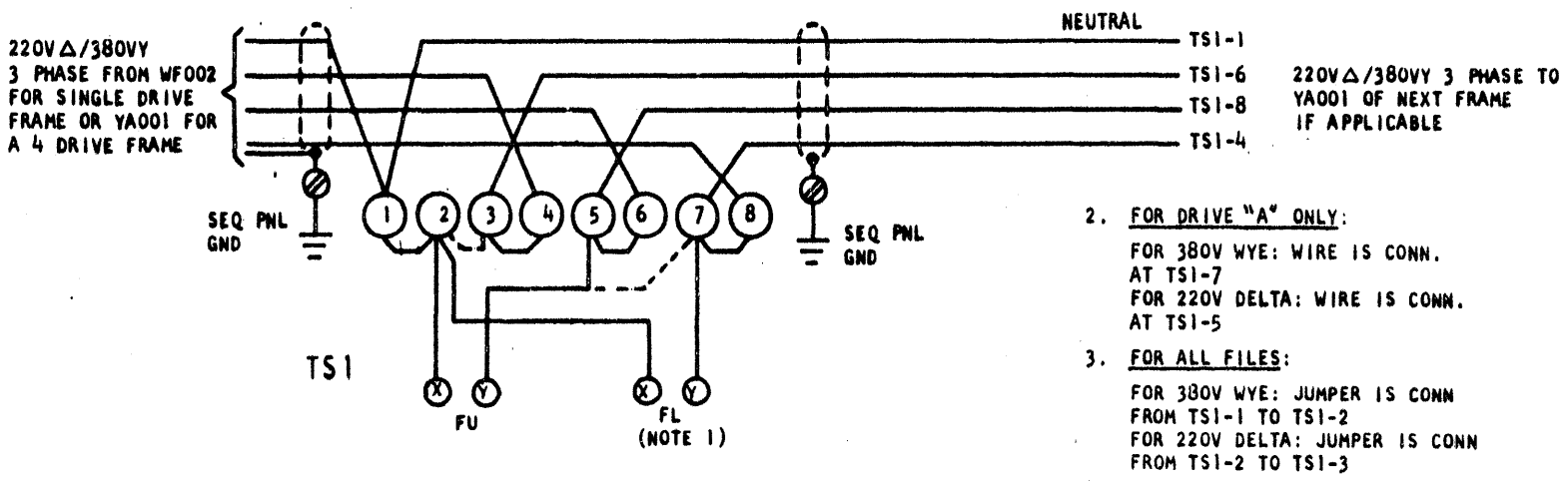
REDRAWN

DATE | P/N 2218332 | TYPE

IBM

WF002

50 CYCLE AC PWR DISTRIBUTION



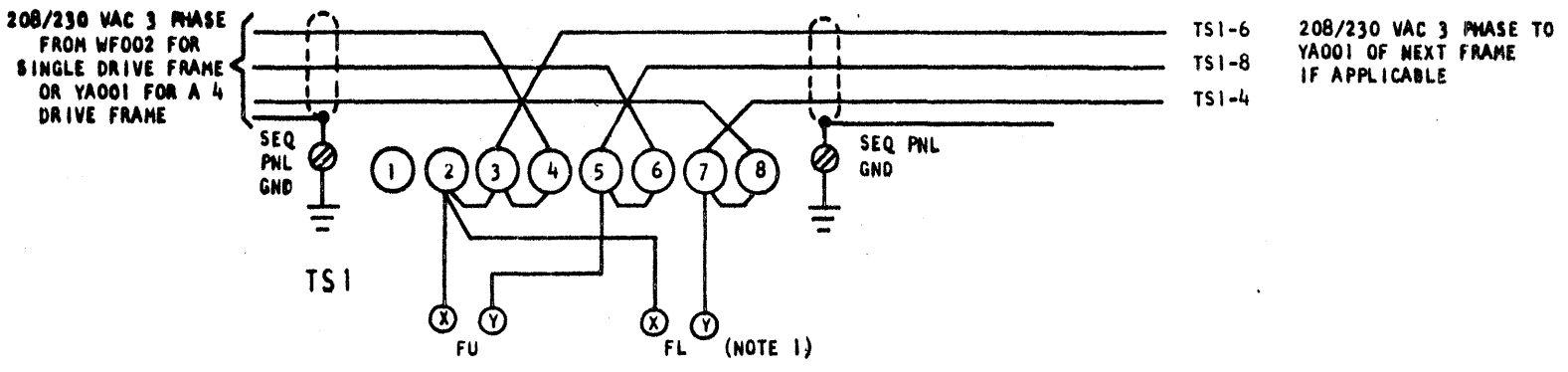
2. FOR DRIVE "A" ONLY:

FOR 380V WYE: WIRE IS CONN. AT TS1-7
FOR 220V DELTA: WIRE IS CONN. AT TS1-5

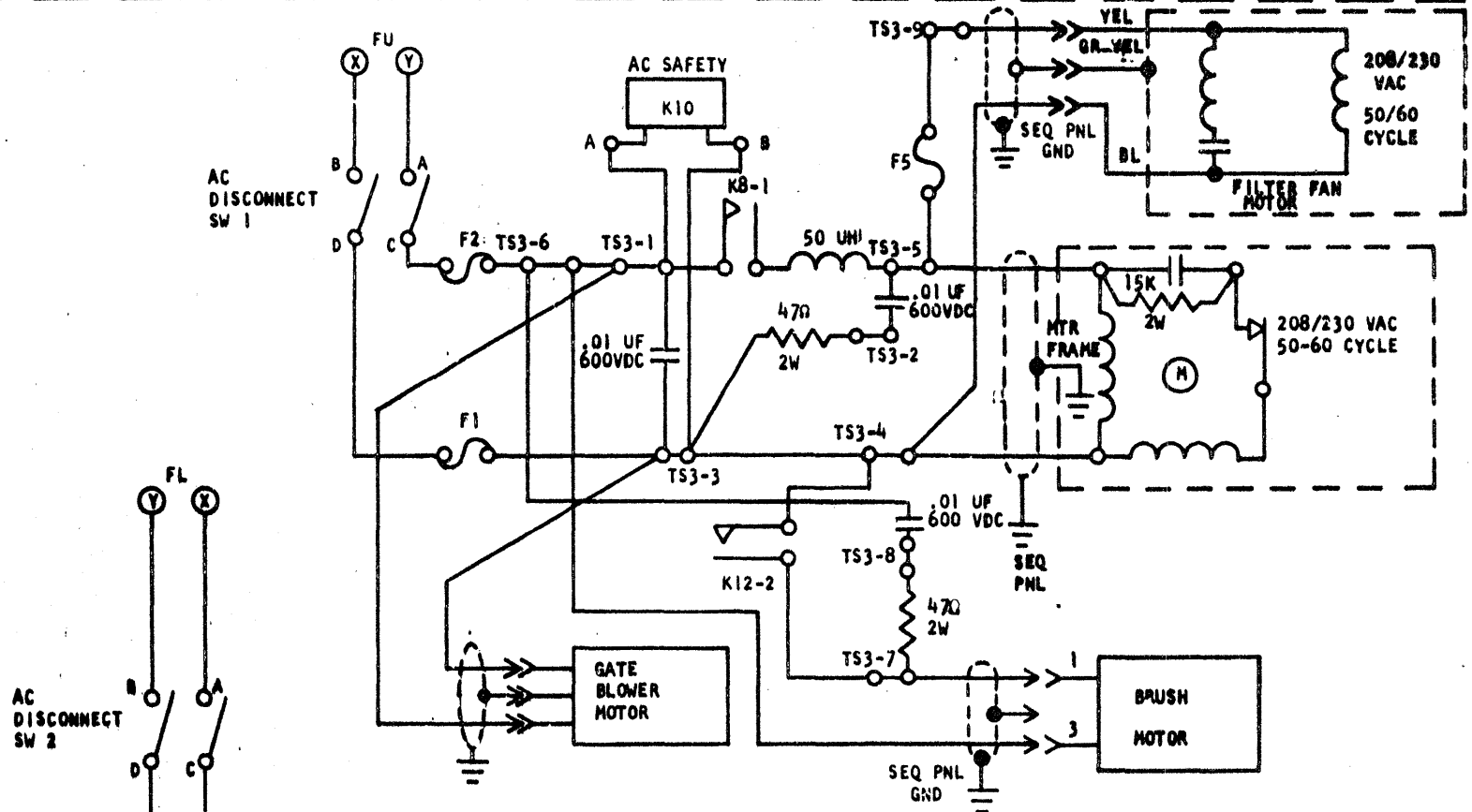
3. FOR ALL FILES:

FOR 380V WYE: JUMPER IS CONN FROM TS1-1 TO TS1-2
FOR 220V DELTA: JUMPER IS CONN FROM TS1-2 TO TS1-3

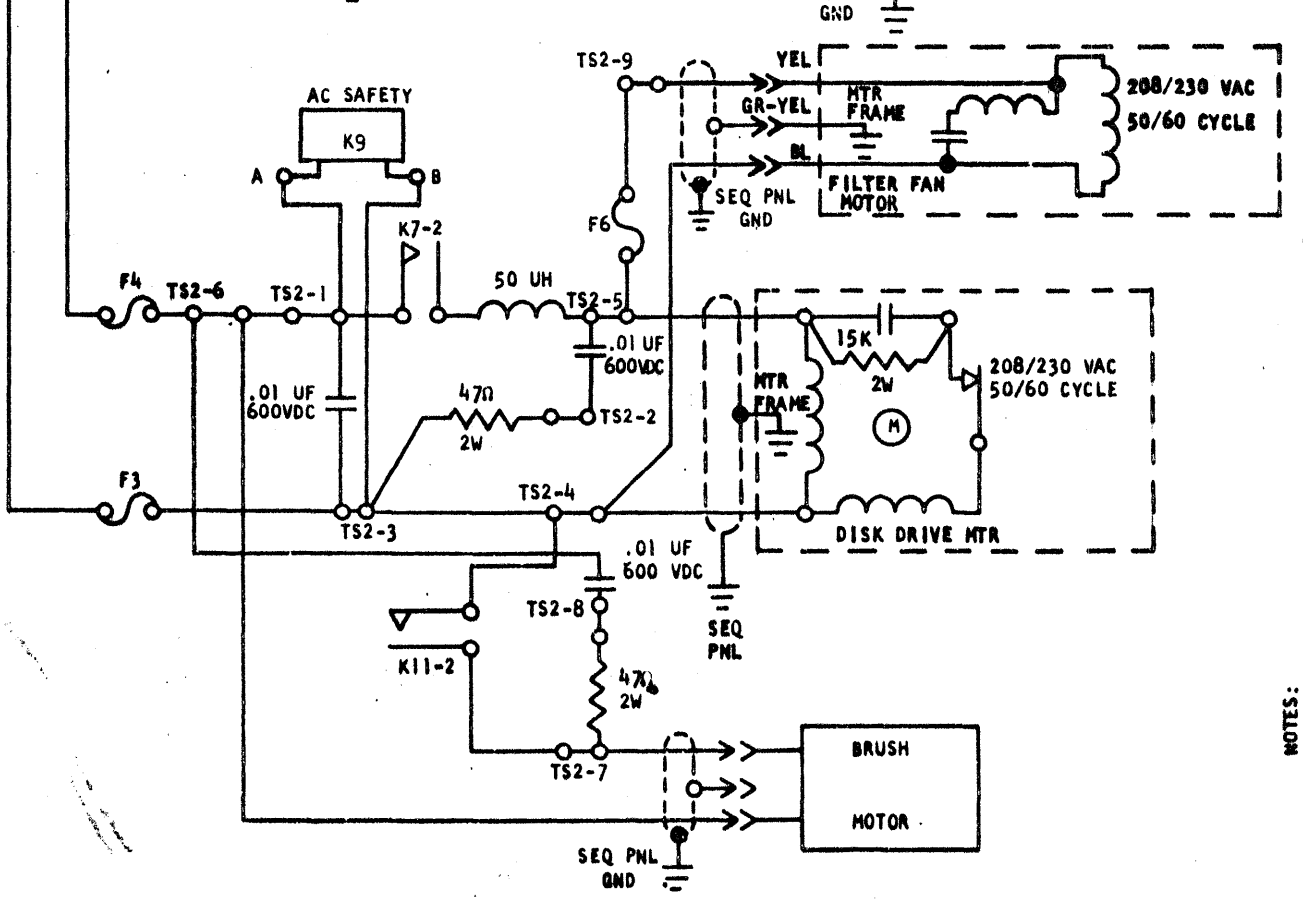
60 CYCLE AC PWR DISTRIBUTION



FILE UPPER



FILE LOWER
NOTE 1



NOTES:
1. FILE LOWER WIRING IS NOT PRESENT IN A SINGLE DRIVE FRAME.

DATE	FC NUMBER	DATE	EC NUMBER	AC POWER CONTROL	DATE	P/N	2218333	YA001
APR66	416034					TYPE		
SEP66	420834							IBM
MAY 67	420926							

DC & SIGNAL DISTRIBUTION

WITHIN ONE FRAME.

K1-2

TS4

F7

D.C. CONNECTOR

CO-AX CONN

R/W COAX PADDLE C-A2A2

SELECTED MODULE

TW

EDGE CONNECTOR

N

MODULE I.D. PLUG # 1

MODULE SELECT

GATED ATTENTION

SIGNAL CONNECTOR

WF002

FILE UPPER

BASE PLATE GND

TS6 A-A1

+36 (1) G2-G12
+6 (2) M2-A14
+3 (3) M3-A14
GND (4) M3-A01 / M4-A01
GND (5) M2-E14 / M3-E14
GND (6) F4-D09 / E4-D09
-3 (7) D4-D09 / C4-D09
-36 (8) M3-E01 / M4-E01
L2-G10

TS8 C-A2

+36 (6) B1-B12
+6 (5) C1-B11
+3 (4) C1-D03
GND (3) D1-D08 / D1-D08
-3 (2) E1-B06
-36 (1) E1-B10

+36 VDC (E1h) ZU001

-3 VDC (D1b) ZU001

DC GND (E3f) ZU001)

CONTROLLED GND FROM FCU ZU001

SEQUENCE PICK INCOMING ZU001

HEADS EXTENDED ZU001

SEQUENCE PICK (OUTGOING) ZU00L NOTE 2

MOD SELECT FU021(FD101)

GATED ATTENTION FU025 (FD104)

MOD SELECT FL021(FD101)

GATED ATTENTION FL025(FD104)

SEQUENCE PICK (OUTGOING) ZL001 NOTE 1

D.C. GND (L3f) ZL001

-3 VDC (K1b) ZL001

+36 VDC (L1h) ZL001

TS7 A-A1

+36 (1) G6-G12
+6 (2) M4-A14 / M6-A14
+3 (3) M5-A01 / M7-A01
GND (4) M4-E14 / M6-E14
GND (5) L4-D09 / K4-D09
GND (6) J4-D09 / H4-D09
-3 (7) M5-E01 / M7-E01
-36 (8) L6-G10

TS9 D-A2

+36 (6) B1-B12
+6 (5) C1-B11
+3 (4) C1-D03
GND (3) D1-D08 / D1-D08
-3 (2) E1-B06
-36 (1) E1-B10

MODULE SELECT

GATED ATTENTION

P1-11 P1-9 P2-12 P1-6 P2-15 P1-2 P2-19 P1-5 P2-16 P2-21 P2-20

P2-13 P1-10 P2-14 P1-8 P1-7 P2-17 P2-18 P1-3 P1-4

P4-12 P3-11 P4-15 P3-9 P4-21 P4-16 P3-6 P4-19 P3-2 P3-5

P4-13 P3-10 P4-14 P4-20 P3-8 P4-17 P3-7 P4-18 P3-3 P3-4

MAGNET

D.C. CONNECTOR

TW

EDGE CONNECTOR

N

MODULE I.D. PLUG # 5

SELECTED MODULE

WF002

COAX-CONN

R/W COAX PADDLE D-A2A2

470Ω 2W

-36 -3 GND GND GND +3 +6 +36 +36

K4-2

TS5

F8

FILE LOWER NOTE 1

NOTES:
1. FILE LOWER WIRING IS NOT PRESENT IN A SINGLE DRIVE FRAME.
2. THIS LINE IS IN A SINGLE DRIVE FRAME ONLY.

EC NUMBER	DATE	EC NUMBER
		416034
		416091
		420832
		420843
		422947

D.C. & SIGNAL DISTRIBUTION

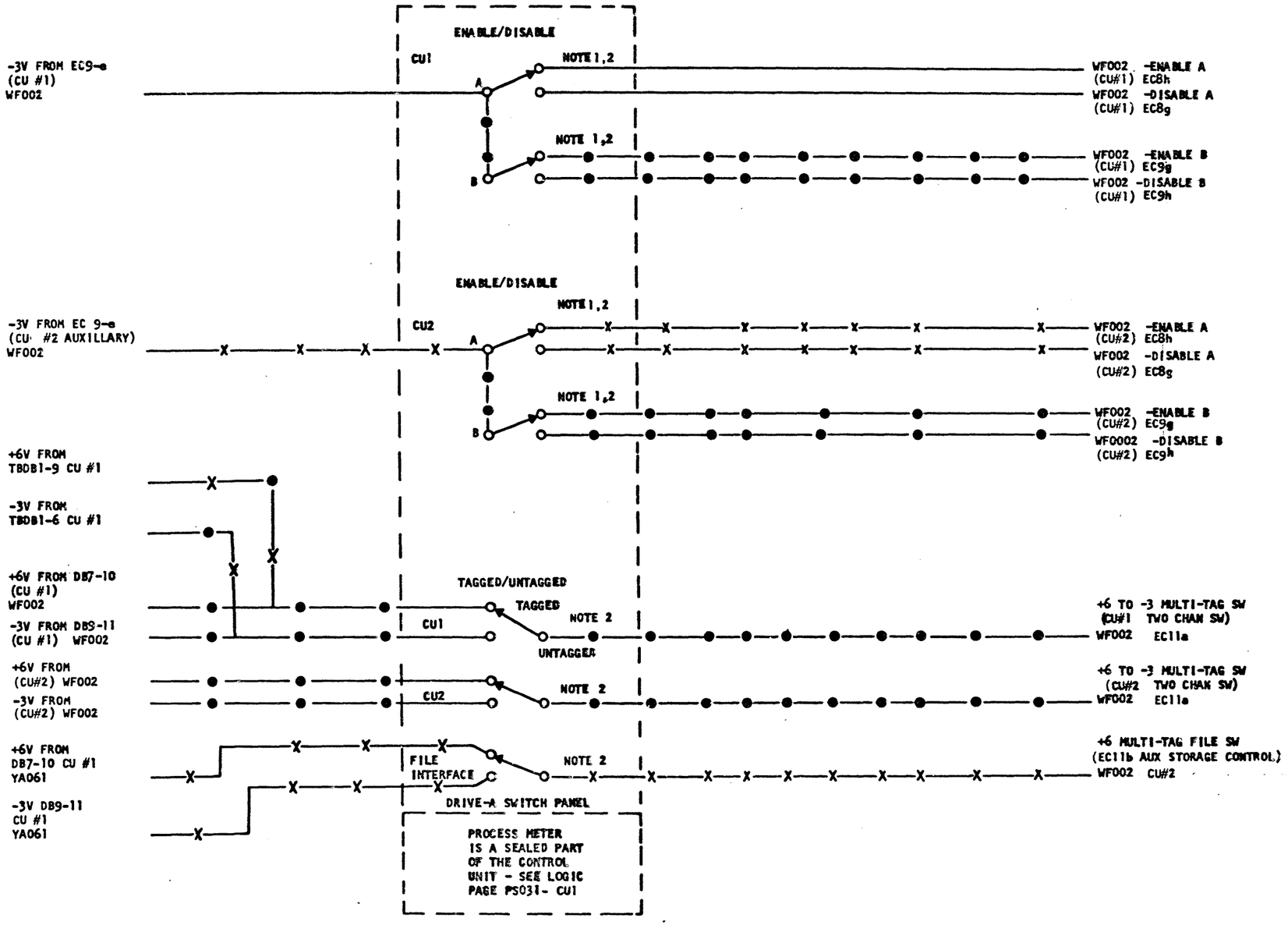
DATE

P/N 2218334

TYPE

IBM

YB001



—●—●— TWO CHANNEL SWITCH FEATURE WIRING

—X—X— AUX STORAGE CONTROL FEATURE WIRING

—●—X— TWO CHANNEL SWITCH & AUX STORAGE CONTROL FEATURE WIRING ONLY

NOTES:

1. WIRES ARE TAPED BACK WHEN REMOTE SWITCH ATTACHMENT FEATURE IS INSTALLED.
2. UNUSED SWITCHES ARE REPLACED WITH BLANK PLUGS.

DATE	EC NUMBER	DATE	EC NUMBER	ENABLE/DISABLE, MULTI-TAG			
JUN 66	416124			SWITCHES - SINGLE DRIVE FRAME			
JUL 66	416097A			DATE	JUL 66	P/N	2259071
JAN 67	420637					TYPE	2314
MAR 68	422947			IBM		YB003	
1AUG68	420946						

DATE	EC NUMBER
JUN66	416091
JUL66	416097
AUG66	416097A
OCT66	420832
NOV66	420843

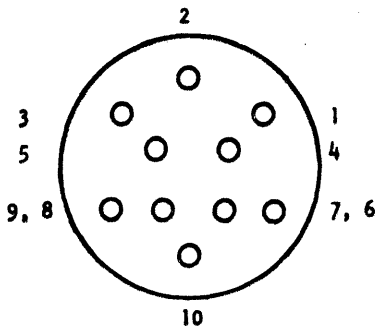
EC NUMBER	DATE
420852	DEC66
420841	FEB 67
420925	MAR 67
420926	MAY 67
422947	MAR 68

POWER ON/OFF SEQUENCING FILE
LOWER
DATE
P/N 2218335
TYPE
IBM
ZL001

+36 VOLTS DC ZL003
K5-2
RC3-3 330Ω
.1 UF
RC3-C
FRONT COVER INTERLOCK SW
INDEX BLOCK SW
+30 V SEQUENCE PICK (OUTGOING) YB001 (TO NEXT FRAME) NOTE 2
L2b
L2h
10Ω
K3e
J3e
J3f
1 UF 200V
K3f
CLOSED N/O
N/O
N/C
K1h
HF
J1h
C2c
BLOCK OUT
+36 VOLTS DC YB001
L1h
J3d
10Ω
K3d
ON
N/C
M1f
+36 MOTOR SW ON ZL003
START STOP SW A
OFF
K3g
K7-1
J3c
.1 UF
K3c
G1c
.1UF
RC4-C
BRUSH CYCLE
K11
DISK BRAKE
A
B
H1a
330Ω
RC4-4
J3b
DIODE
K3b
330Ω
.1UF
G1a
G1b
H1b
H1c
CONTROLLED SOLENOID RETURN ZL003
J2b
HF
K2b
K2d
HF
J2d
J2a
HF
SPEED
K4
-0* +36* HEAD LOAD SPEED FL056 (FD103)
RC3-2
K2a
A
B
RC3-C
330Ω
.1 UF
K2f
J3g
MOTOR
K7
PACK ON SW
+36V SEQUENCE PICK (C1h) ZU001
NOTE 2
J3h
A
HF
B
K3h
ON
K2e
OFF
K5-1
OFF
START STOP SWITCH
B
ON
330Ω
.1UF
RC3-1
HF
J1g
K1g
RC4-1
330Ω
.1UF
RC4-c
READY
A
C
K2c
SEQUENCE
K5
SELECT LOCK
HF
A
C
B
A
J1b
CONTROLLED GND ZU001
NOTE 4
DC GROUND YB001
L3f
L3g
L3d
-0.+36* ACCESS READY LIGHT FL053 (FD104)
1K 2W
H3h
G3h
-0* +36* SELECT LOCK LIGHT FL090 (FD103)
1K 2W
H3g
G3g
N/C
MOD ID RECEPTACLE SW NOTE 1
N/O
RC4-C
.1 UF
330Ω
RC4-3
1K 2W
J2f
EXTENDED
M1b
NOTE 2
-0* + 36* HEADS EXTENDED ZU001
HEADS EXTENDED SW
H3f
G3e
RETRACTED
CE REAR COVER SW
ON
-0* +3* REAR COVER OFF FL054 (FD104)
-3 VOLTS DC YB001
K1b
K3a
K2h
200Ω .5W
J2h
H3e
OFF
G2a
DC GROUND ZL003
+6* -0 ON LINE FL054 (FD104)
BRUSH MTR SW
N/C
N/O
G2b
K4-1
100Ω
G1g 2W H1g
H3c
200 Ω .5W
NOTE 3 SENSE AIR FLOW
G2d
VACUUM SWITCH
REED SW
750Ω.5W
NOTE 3
GATE +6 VOLTS FL120(N5D11)
H2d
H2c
G2c
+6* -3* SENSE SPEED FL056 (FD103)
2.4K 1W
K9-1
K2g
+36 VDC AC SAFETY FL090(FD103)
H2a
G2e
H2e
K11-1
750Ω.5W
+3* -2* RESET FORWARD FL050(FD104)
H1h
G1h
G3f
100 UF
H3d
-0* +5* CONTAMINATED FILTER FL090(FD103)
G3c
GATE GROUND (01A-A1N5 D08)
K11-3
G3d
G2h .1 UF H2h
H2f
330Ω
G2f
G3a
.1 UF
330Ω
200Ω
G3b
H3b
H3a
-0* +6* SEQUENCE START PULSE FL053(FD103)
H2g
G2g

NOTES:
1. THIS SWITCH IS MOMENTARILY ACTUATED BY INSERTION OR REMOVAL OF THE MOD I.D. PLUG.
2. FOR THE 2844 ATTACHMENT, THIS LINE GOES TO (OR COMES FROM) THE 2844 VERSION OF YB001 (2244638 REF).

NOTES:
3. -X-X- THIS WIRING ON MACH. WITH SENSE AIR FLOW SW ONLY, -●-●- THIS WIRING ON MACH. WITH VACUUM SW ONLY.
4. THIS LINE IS PRESENT ONLY FOR THE 2844 ATTACHMENT
-●-X-



SOLENOID	PINS
FORWARD	1-6
SLOW AT 3	3-9
SLOW AT 27	2-10
DETENT	4-7
EXTEND	5-8

* TWISTED PAIR - GROUNDED WIRE CONNECTED ONLY AT GATE END ON CONNECTOR GROUND STRIP.

DATE	EC NUMBER
APR 66	4160334
MAR 67	420925
MAY 67	420926
MAR 68	422947

SOLENOIDS-FILE LOWER	
EC NUMBER	
DATE	
DATE	MAR 67
P/N	2218336
TYPE	
ZL003	

IBM

RED

DATE	EC NUMBER
JUN66	416091
JUL66	416097
AUG66	416098A
OCT66	420832
NOV 66	420943

DATE	EC NUMBER
DEC66	420852
FEB 67	420841
MAR 67	420925
MAY 67	420926
MAR 68	422947

POWER ON/OFF SEQUENCING FILE

UPPER

DATE

P/N 2218337

TYPE

IBM

ZU001

+36 VOLTS DC ZU003

K2-2

330 Ω

.1 UF

RC1-C

RC1-3

FRONT COVER INTERLOCK SW CLOSED N/O

INDEX BLOCK SWITCH N/C D1h HF C1h

NOTE 4

36V SEQUENCE PICK ZL001

E2b

10 Ω

1 UF 200V

+36 VOLTS DC YB001 E1h

E2h D3e C3e C3f D3f

N/O N/C

BLOCK OUT

NOTE 1 C2c

36V SEQUENCE PICK(OUTCOING) YB001

NOTE 2 NOTE 4

+36 MOTOR SW ON ZU 003

C3d 10 Ω D3d START STOP SW A ON OFF F1f

D3g

K8-2

C3c

.1 UF

D3c A1c

RC2-C

.1UF

330 Ω

RC2-4

BRUSH CYCLE

K12

DISK BRAKE

A B

C3b D3b

DIODE

B1a A B

.1 UF

330 Ω A1a A1b B1b B1c

CONTROLLED SOLENOID RETURN ZU003

C2b D2b HF

HF D2d C2d

C2a

SPEED

K1

HF

-0* +36* HEAD LOAD SPEED FU056(FD103)

RC1-2 RC1-C

D2a A B

330 Ω .1 UF

D2f C3g MOTOR K8

PACK ON SW

C3h A B D3h ON OFF D2e

HF

+36V SEQUENCE PICK (INCOMING) YB001

NOTE 4

K2-1

OFF START STOP SW B

330Ω .1 UF RC1-1

-0* +36* HEADS EXTENDED ZL001

D1g HF C1g ON

RC2-1 330Ω .1 UF RC2-C

READY

A C

D2c

SEQUENCE

K2

SELECT LOCK

A C

HF

A B

CONTROLLED GND FROM FCU YB001

NOTE 7 C1b NOTE 5

CONTROLLED GND ZL001

DC GROUND YB001

E3f E3G E3d

-0* +36* ACCESS READY LIGHT FU053 (FD104)

A3h 1K 2W B3h

-0* +36* SELECT LOCK LIGHT FU090 (FD103)

A3g 1K 2W B3G

MOD ID RECEPTACLE SW NOTE 3

N/C N/O

RC2-C .1UF RC2-2

330Ω

RC2-C HEADS EXT'D SW

EXT'D NOTE 4

F1b E1b

-0* +36* HEADS EXTENDED YB001

RC2-C

1K 2W

.1 UF 330 Ω RC2-3

C2f A3E RET B3f ON

B3e OFF

A2a -0* +3* COVER OFF FU054(FD104)

CE REAR COVER SW

DC GROUND ZU003

-3 VOLTS DC YB001 D1b D3a D2h 200Ω .5W C2h

N/C BRUSH MOTOR SW

N/O A2b K1-1

+6* -0* ON LINE FU054 (FD104)

100Ω A1g 2W B1g

B3C

200 Ω .5W

NOTE 6 SENSE AIR FLOW

REED SW A2d

VACUUM SWITCH

NOTE 6

GATE +6 VOLTS FU120(N4D11)

B2d B2c 750Ω.5W A2c

+6* -3* SENSE SPEED FU056 (FD103)

K10-1

B2a 2.4K 1W

A2e B2e

K12-1

D2g

+36VDC AC SAFETY FU090(FD103)

750Ω.5W

B1h A1h A3f

+3* -2* RESET FORWARD FU050 (FD104)

100 UF + B3d A3c

-0* +5* CONTAMINATED FILTER FU090 (FD103)

GATE GROUND (01A-A1N4,D08)

K12-3

A3d A2h .1 UF B2h

B2f 330Ω A2f A3a .1 UF

330Ω

200Ω A3b B3b B3a

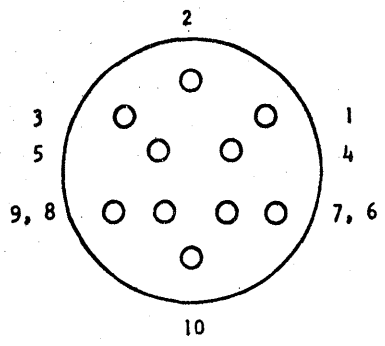
B2g A2g -0* +6* SEQUENCE START PULSE FU053 (FD103)

NOTES:

1. THIS LINE IS NOT IN A SINGLE DRIVE FRAME.
2. THIS LINE IS IN A SINGLE DRIVE FRAME ONLY.
3. THIS SWITCH IS MOMENTARILY ACTUATED BY INSERTION OR REMOVAL OF THE MOD. I.D PLUG.

NOTES:

4. FOR THE 2844 ATTACHMENT, THIS LINE GOES TO (OR COMES FROM) THE 2844 VERSION OF YB001.
5. FOR THE 2844 ATTACHMENT, THIS LINE IS NOT IN THE MACHINE.
6. -X-X- THIS WIRING ON MACH. WITH SENSE AIR SW ONLY, -●-●- THIS WIRING ON MACH. WITH VACUUM SW ONLY.
7. THIS LINE IS PRESENT ONLY FOR THE 2844 ATTACHMENT.-●-X-



SOLENOID	PINS
FORWARD	1-6
SLOW AT 3	3-9
SLOW AT 27	2-10
DETENT	4-7
EXTEND	5-8

* TWISTED PAIR - GROUNDED WIRE CONNECTED ONLY AT GATE END ON CONNECTOR GROUND STRIP.

DATE	EC NUMBER
APR 66	416034
MAR 67	420925
MAY 67	420926
MAR 68	422947

SOLENOIDS-FILE UPPER	
EC NUMBER	
DATE	MAR 67
P/N	2218338
TYPE	
IBM	ZU003

RED

FILE SEQUENCE PANEL LOCATION CHARTS

EDGE CONNECTOR LOCATIONS

	ZU00X - UPPER DRIVE						ZL00X - LOWER DRIVE						
	A	B	C	D	E	F	G	H	J	K	L	M	N
1a	001/D6	001/C6	003/E6	003/E6	003/C6	003/C5	001/D6	001/C6	003/E6	003/E6	003/C6	003/C5	YB001/A6
b	001/D6	001/D6	001/D5	001/A4	001/D4	001/D4	001/D6	001/D6	001/D5	001/A4		001/D4	YB001/A6
c	001/B7	001/D6	003/D6	003/C6	003/B5	003/C5	001/B7	001/D6	003/D6	003/C6	003/B5	003/C5	
d			003/D5	003/C5		003/E7			003/D5	003/C5		003/E7	
e	003/E2	003/D3	003/D4	003/C4	003/C5	003/C4	003/E2	003/D3	003/D4	003/C4	003/C5	003/C4	YB001/A3
f	003/B2	003/D3	003/D3	003/C3		001/D7	003/B2	003/D3	003/D3	003/C3		001	YB001/A3
g	001/B3	001/B3	001/B5	001/A5	003/B4	003/C4	001/B3	001/B3	001/B5	001/A5	003/B4	003/C4	
h	001/B2	001/B2	001/D7	001/D7	001/A7		001/B2	001/B2	001/D7	001/D7	001/A7		
2a	001/E4	001/B3	001/A6	001/B6	003/C4	003/C4	001/E4	001/B3	001/A6	001/A6	003/C4	003/C4	
b	001/C3		001/D6	001/D6	001/A7		001/C3		001/D6	001/D6	001/A7		
c	001/C3	001/B3	NOTE 1	001/A5	003/B4	003/C4	001/C3	001/B3		001/A5	003/B4	003/C4	
d	001/C3	001/A3	001/D6	001/D6		003/E2	001/C3	001/A3	001/D6	001/D6		003/E2	
e	001/B3	001/B3		001/E5	003/C3	003/C3	001/B3	001/B3		001/E5	003/C3	003/C3	
f	001/D2	001/B2	001/C4	001/C5			001/D2	001/B2	001/C4	001/C5			
g	001/E2	001/B2	003/E2	001/D3	003/B3	003/C3	001/E2	001/B2	003/E2	001/D3	003/B3	003/C3	
h	001/E2	001/E2	001/B4	001/B4	001/B7	003/D7	001/E2	001/E2	001/B4	001/B4	001/B7	003/D7	
3a	001/D2	001/D2		001/A4	003/D7	003/D7	001/D2	001/D2		001/A4	003/D7	003/D7	
b	001/D2	001/D2	001/B6	001/B6			001/D2	001/D2	001/B6	001/B6			
c	001/D2	001/E3	001/A7	001/A7	003/D6	003/E5	001/E2	001/E3	001/A7	001/A7	003/D6	003/E5	
d	001/D2	001/C2	001/A7	001/B7	001/E4	003/E4	001/D2	001/D2	001/A7	001/B7	001/E4	003/E4	
e	001/D4	001/D4	001/B7	001/B7	003/D6	003/E6	001/D4	001	001/B7	001/B7	003/D6	003/E6	
f	001/C2	001/D4	001/B7	001/B7	001/C4	003/E4	001/C2	001/D4	001/C5	001/C7	001/C4	003/E4	
g	001/B4	001/E4	001/C5	001/C7	001/C4	003/E3	001/B4	001/E4	001/C5	001/C7	001/C4	003/E3	
h	001/B4	001/E4	001/C5	001/C5	003/D6	003/D6	001/B4	001/E4		001/D5	003/D6	003/D6	

NOTE 1: EDGE CONNECTOR C2c IS ON LP ZU001 FOR SINGLE DRIVE FRAME OR ZL001 ON A FOUR DRIVE FRAME.

COMPONENT LOCATIONS	DATE	MAR 67
	P/N	2218339
	TYPE	
ZZ001		

DATE	EC NUMBER	DATE	EC NUMBER
APR 66	416034	MAY 67	420926
JUL 66	416097A	MAR 68	422947
SEP 66	420832		
OCT 66	420843		
MAR 67	420925		

IBM

RED

RELAY LOCATIONS

RELAY	NAME	COIL	CONTACT 1	CONTACT 2	CONTACT 3
K1	SPEED	ZU001/B6	ZU001/C3	YB001/D6	ZU003/D2
K2	SEQUENCE	ZU001/D5	ZU001/B5	ZU001/A7	
K4	SPEED	ZL001/B6	ZL001/C3	YB001/D2	ZL003/D2
K5	SEQUENCE	ZL001/D5	ZL001/B5	ZL001/A7	
K11	BRUSH CYC	ZL001/D6	ZL001/C2	YA001/C2	ZL001/D2
K7	MOTOR	ZL001/D5	ZL001/C7	YA001/C3	-
K8	MOTOR	ZU001/D5	YA001/D5	ZU001/C7	-
K10	AC SAFETY	YA001/C5	ZU001/D2	-	-
K12	BRUSH CYC	ZU001/D6	ZU001/C2	YA001/D4	ZU001/D2
K9	AC SAFETY	YA001/C3	ZL001/D2	-	-

SWITCH LOCATIONS

SWITCH	PAGE NO UPPER FILE	PAGE NO LOWER FILE
START/STOP SW (SIDE A)	ZU001/B7	ZL001/B7
START/STOP SW (SIDE B)	ZU001/B5	ZL001/B5
INDEX BLOCK SW	ZU001/D7	ZL001/D7
BRUSH MOTOR	ZU001/B3	ZL001/B3
PACK ON SW	ZU001/D5	ZL001/D5
HEADS EXTENDED SW	ZU001/D4	ZL001/D4
MODULE I.D. SW.	ZU001/C4	ZL001/C4
CE REAR COVER SW	ZU001/E3	ZL001/E3
AC DISCONNECT SW 1	YA001/B5	-
AC DISCONNECT SW 2	-	YA001/B4
FRONT COVER INTERLOCK	ZU001/C7	ZL001/C7

FUSE LOCATIONS

FUSE	RATING	CIRCUIT	PAGE NO	PART NUMBER	TYPE
F1	8 AMP SLO BLO	208 AC	YA001/C4	107668	FNM 8
F2	8 AMP SLO BLO	208 AC	YA001/C5	107668	FNM 8
F3	8 AMP SLO BLO	208 AC	YA001/B2	107668	FNM 8
F4	8 AMP SLO BLO	208 AC	YA001/B3	107668	FNM 8
F5	1.5A SLO BLO	208 AC	YA001/D5	505077	313 3AG
F6	1.5A SLO BLO	208 AC	YA001/D3	505077	313 3AG
F7	4A FAST FLO	+36 DC	YB001/D7	111257	MTH 4
F8	4A FAST BLO	+36 DC	YB001/D2	111257	MTH 4

RC BLOCK LOCATIONS

	RC1	RC2	RC3	RC4
1	ZU001/E5	ZU001/D5	ZL001/E5	ZL001/D5
2	ZU001/B6	ZU001/D4	ZL001/B6	
3	ZU001/B7	ZU001/C4	ZL001/B7	ZL001/C4
4		ZU001/D6		ZL001/D6
C	ZU001/C7	ZU001/E7	ZL001/C7	ZL001/E7

TERMINAL STRIP LOCATIONS

	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS8	TS9
1	YA001/B6	YA001/C3	YA001/C5	YB001/B7	YB001/B2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
2	YA001/B6	YA001/D3	YA001/D5	YB001/B7	YB001/B2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
3	YA001/B6	YA001/C3	YA001/C4	YB001/B7	YB001/B2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
4	YA001/B6	YA001/C2	YA001/D4	YB001/B7	YB001/B2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
5	YA001/B6	YA001/C3	YA001/D5	YB001/B7	YB001/B2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
6	YA001/C6	YA001/C3	YA001/C5	YB001/C7	YB001/C2	YB001/E7	YB001/E3	YB001/E6	YB001/E2
7	YA001/C6	YA001/C2	YA001/D4	YB001/C7	YB001/C2	YB001/E7	YB001/E3	-	-
8	YA001/C6	YA001/C2	YA001/D4	YB001/C7	YB001/C2	YB001/E7	YB001/E3	-	-
9	-	YA001/D3	YA001/D5	YB001/C7	YB001/C2	-	-	-	-
10	-	-	-	YB001/D7	YB001/D2	-	-	-	-
11	-	-	-	YB001/D7	YB001/D2	-	-	-	-
12	-	-	-	YB001/D7	YB001/D2	-	-	-	-
13	-	-	-	YB001/D7	YB001/D2	-	-	-	-
14	-	-	-	YB001/D7	YB001/D2	-	-	-	-