

AVALANCHE TAPE UNIT

PN COMPATIBILITY LISTING

PN 95523

LIST OF EFFECTIVE PAGES

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TOTAL NUMBER OF PAGES IN THIS VOLUME IS 30, CONSISTING OF THE FOLLOWING PAGES:

TITLE	PAGE NO.	PAGE LEVEL	EC DATE
COVER.....			
LIST OF EFFECTIVE PAGES.....	II		02/85
INTRODUCTION.....	1-1		
.....	1-2		
.....	1-3		
.....	1-4		
PN CROSS REFERENCE INDEX.....	2-1		
MBD INTERCONNECT	3-1	49830	12/84
MBD INTERLOCK, DISABLE	3-1.1	49464	03/84
AK VOLTAGE REGULATOR	3-2	49556	05/84
DP DATA PATH	3-3	49501	04/84
DP DATA PATH	3-3.1	49841	01/85
EB EOT/BOT	3-4	49826	02/85
IF INTERFACE/CONTROLLER	3-5	49444	01/84
IF INTERFACE/CONTROLLER	3-5A	49569	04/84
IF INTERFACE/CONTROLLER	3-5B	49709	09/84
IF INTERFACE/CONTROLLER	3-5C	49806	11/84
IF INTERFACE/CONTROLLER	3-5.1	49790	10/84
KK OP PANEL CD	3-6	49657M	01/85
NK VOLTAGE REGULATOR	3-7	49414	01/84
PK SHORT CIRCUIT DETECT	3-8	49818	10/84
RD AMPLIFY & DETECT READ	3-9	49769	09/84
SV SERVO CONTROL	3-10	49863	01/85
WR WR DRIVERS SENSOR CKTRY	3-11	49799	11/84
WR WR DRIVERS SENSOR CKTRY	3-11A	49799M	01/85
WR WR DRIVERS SENSOR CKTRY	3-11.1	49573	09/84
DG EXTERNAL OPERATOR CONTROL	3-12	49603	07/84
PA SIDE OF CARD CAGE	3-13	49574	07/84
PB SIDE OF CARD CAGE	3-14	49575	07/84
RD READ A/D, CLOCKING & DETECT.	3-15	49882	02/85
IF INTERFACE/CONTROLLER	3-16	49849	12/84
IF INTERFACE/CONTROLLER	3-16.2	49869	02/85

## INTRODUCTION

THIS MANUAL CONTAINS THREE PARTS:

1. INTRODUCTION - WHICH DEFINES THE CONTENT OF THE MANUAL AND EXPLAINS HOW TO USE IT.
2. RESERVED FOR FUTURE USE.
3. TU COMPATIBILITY - WHICH CONTAIN THE PART NUMBER COMPATIBILITY PAGES FOR THE TAPE UNIT (TU).

DOWNWARD COMPATIBLE: A NEW ASSEMBLY (USUALLY A HIGHER PN) IS A DIRECT REPLACEMENT (DOWNWARD COMPATIBLE) FOR AN OLD ASSEMBLY (USUALLY A LOWER PN) WHEN IT DOES NOT DEGRADE MACHINE PERFORMANCE. DOWNWARD COMPATIBILITY IS INDICATED WHEN BOTH ASSEMBLIES HAVE THE SAME COMPATIBILITY NUMBER.

UPWARD COMPATIBLE: AN OLD ASSEMBLY (USUALLY A LOWER PN) IS EQUIVALENT TO (UPWARD COMPATIBLE) AND MAY DIRECTLY REPLACE A NEW ASSEMBLY (USUALLY A HIGHER PN) IF ITS USE DOES NOT AFFECT MACHINE PERFORMANCE. UPWARD COMPATIBILITY IS INDICATED WHEN ASSEMBLIES HAVING THE SAME COMPATIBILITY NUMBER ARE ALSO INDICATED AS "EQUIVALENT" IN THE "DESCRIPTION OF EC" FIELD.

EACH PAGE IN THE COMPATIBILITY SECTION CONTAINS THE COMPATIBILITY INFORMATION FOR A SINGLE CARD TYPE. IT SHOWS THE HISTORY OF ENGINEERING CHANGES (EC'S) THAT RESULTED IN PART NUMBER CHANGES FOR THAT CARD. IT ALSO SHOWS WHICH PART NUMBERS ARE OBSOLETE AND WHAT PART NUMBERS CAN BE USED TO REPLACE THEM.

FOR SOME CARDS, THE FUNCTIONAL CHANGES THAT RESULTED IN NEW PART NUMBERS WILL NOT FUNCTION WITHOUT CORRESPONDING MACHINE REWORK. THIS USUALLY RESULTS IN A COMPATIBILITY NUMBER

CHANGE FOR THE NEW ASSEMBLY. THE "DESCRIPTION OF EC" FIELD WILL SUMMARIZE THE CHANGES. THE FIELD APL DEFINING THE REQUIRED REWORK WILL BE LISTED IN A SEPARATE COLUMN NEXT TO THE EC NUMBER.

IF THE COMPATIBILITY NUMBER DOES NOT CHANGE, THE NEW CARD WILL PERFORM AT LEAST THE SAME FUNCTIONS AS THE OLDER CARD.

### COMPATIBILITY AND OBSOLESCENCE

ANY PART NUMBER THAT IS PREFIXED WITH AN ASTERISK (\*) IS AN OBSOLETE PART NUMBER. OBSOLETE MEANS THAT THE PART WILL NO LONGER BE SUPPLIED. IF AN OBSOLETE PART IS ORDERED, THE FIELD PARTS CRIB WILL SUBSTITUTE A PART THAT IS DOWNWARD COMPATIBLE OR EQUIVALENT TO THE PART NUMBER ORDERED.

FOR SOME CIRCUIT CARDS, ALL PART NUMBERS OF THE CARD AT A PARTICULAR COMPATIBILITY NUMBER HAVE BEEN OBSOLETE, LEAVING NO AVAILABLE REPLACEMENTS AT THAT COMPATIBILITY NUMBER. THIS SITUATION OCCURS WHEN A CARD IS OBSOLETE BY A MANDATORY EC. IF A REPLACEMENT IS ORDERED FOR AN OBSOLETE CARD FOR WHICH THERE IS NO REPLACEMENT AT THE COMPATIBILITY NUMBER, IT IS POSSIBLE THAT ONE OR MORE MANDATORY EC'S ARE MISSING FROM THE MACHINE. CHECK THE EC HISTORY LOG FOR THAT MACHINE, AND THE COMPATIBILITY PAGE FOR THAT CARD FOR "DESCRIPTION OF EC" AND THE APPLICABLE APL NUMBERS. UPDATE THE MACHINE SUCH THAT A REPLACEMENT CARD OF A HIGHER COMPATIBILITY NUMBER CAN BE USED. (IT MAY BE NECESSARY TO ORDER THE INDICATED APL WHICH WILL PRODUCE THE CORRECT CARD NEEDED).

DOWNWARD COMPATIBILITY IS DESIGNATED BY THE COMPATIBILITY NUMBER TO THE RIGHT OF THE PART NUMBER. A CARD OF A GIVEN PART NUMBER IS DOWNWARD COMPATIBLE WITH ALL THOSE LOWER PART NUMBER CARDS THAT HAVE THE SAME COMPATIBILITY NUMBER. THIS MEANS IT CAN BE USED TO REPLACE ANY OF THE LOWER PART NUMBER CARDS HAVING THE SAME COMPATIBILITY NUMBER WITHOUT REQUIRING REWORK TO THE CARD OR MACHINE.

FOR EXAMPLE:

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
*42150101	1	IR - W/W BOARD	40020	NONE
*42150102	1	ADD REWORK	40030	NONE
42150202	1	IMBED REWORK - EQUIV TO 102	40040	8612
*42150203	2	ADD REWORK. REQUIRED MBD AT LEVEL _____.	40050	8619
42150204	2	ADD REWORK	40060	NONE

IN THE ABOVE EXAMPLE:

P/N 42150 101 CAN REPLACE ONLY ITSELF.  
P/N 42150 102 CAN REPLACE ITSELF OR P/N 42150101 (OR -202 BECAUSE IT IS EQUIVALENT).  
P/N 42150 202 CAN REPLACE ITSELF, P/N 42150101 OR P/N 42150102.  
P/N 42150 203 CAN REPLACE ONLY ITSELF. (CAN NOT REPLACE LOWER LEVEL CARDS UNLESS MBD CHANGE OR OTHER PREREQUISITE IS INSTALLED).  
P/N 42150 204 CAN REPLACE ITSELF AND -203. (CAN NOT REPLACE LOWER LEVEL CARDS UNLESS MBD CHANGE OR OTHER PREREQUISITE IS INSTALLED).

\* THE ASTERISK TO THE LEFT OF A PART NUMBER INDICATES THAT THE PART IS OBSOLETE AND IS NO LONGER SUPPORTED BY MANUFACTURING. THE HIGHEST LEVEL PART FOR EACH COMPATIBILITY LEVEL SHOULD NOT CARRY AN ASTERISK BECAUSE MANUFACTURING MUST SUPPORT FIELD SPARES UNTIL ALL MACHINES HAVE BEEN BROUGHT TO THE NEXT COMPATIBILITY LEVEL.

CAUTION

UPWARD COMPATIBILITY EXISTS ONLY IF TWO CARDS WITH THE SAME COMPATIBILITY NUMBER ARE DESCRIBED AS "EQUIVALENT" IN THE "DESCRIPTION OF EC" FIELD. ANY OTHER SUBSTITUTION OF A LOWER PART NUMBER CARD FOR A HIGHER PART NUMBER CARD REQUIRES A GREAT DEAL OF CAUTION. SUCH PRACTICE MAY RESULT IN NOISE PROBLEMS, TIMING PROBLEMS, DIAGNOSTIC ERRORS, ETC. ANY ATTEMPT TO UTILIZE SUCH A LOWER PART NUMBER CARD REQUIRES ENSURING THAT FUNCTIONAL CHANGES OR IMPROVEMENTS MISSING FROM THE LOWER PART NUMBER CARD WILL NOT RESULT IN CUSTOMER SYSTEM OPERATION DEGRADATION. REFERENCE THE DESCRIPTION OF EACH CHANGE MISSING FROM THE CARD AND ENSURE THAT NO MACHINE WIRING CHANGES OR COMPANION CHANGES TO OTHER CARDS WERE REQUIRED AT THE TIME THE HIGHER PART NUMBER WAS INSTALLED ORIGINALLY. USAGE IN THIS MANNER IS NOT RECOMMENDED AND SHOULD BE AVOIDED IF POSSIBLE.

UPDATING THE MANUAL

TO UPDATE THE MANUAL, INSERT THE NEW PAGES ACCORDING TO THE NEW LIST OF EFFECTIVE PAGES. REMOVE AND DISCARD ANY PAGES THAT ARE REPLACED BY A LATER EC LEVEL, OR ARE SHOWN AS DELETED FROM THE LIST OF EFFECTIVE PAGES.

COMMENTS CONCERNING THE CONTENT OF THIS MANUAL SHOULD BE DIRECTED TO TAPE PUBLICATIONS SERVICES AT THE ADDRESS BELOW. IN CASE OF ERRORS, PLEASE GIVE SPECIFIC PAGE AND LINE REFERENCES, WHERE APPROPRIATE. FOR A REPLY INCLUDE NAME AND ADDRESS.

REQUESTS FOR ADDITIONAL COPIES OF THIS MANUAL SHOULD BE DIRECTED TO THE FIELD CRIB VIA FIELD INVENTORY SYSTEM (FIS) TERMINALS.

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PN CROSS REFERENCE INDEX - 95523 TAPE UNIT

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CD TYPE: MBD  
CD LOC : MOTHERBOARD  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - INTERCONNECT CARDS & CABLES  
PG EC LEVEL - 49439 DATE 01/24/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
402637103	1	INITIAL RELEASE TO ENGINEERING.	49240	NONE
		RELEASE OF COMPATIBILITY	49291	
402637104	2	REMOVE RELAY	49294	NONE
402637105	2	ADD A JUMPER BRAID BETWEEN DC RETURN AND CHASSIS AT THE MBD.	49439	NONE



CD TYPE: AK  
 CD LOC : POWER SUPPLY  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - VOLTAGE REGULATOR  
 PG EC LEVEL - 49556 DATE 05/17/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402214303	1	INITIAL RELEASE TO ENGINEERING	49245	NONE
		RELEASE OF COMPATIBILITY	49291	
*402214304	1	SCR TRIG CIRCUIT IS IMPROVED (+/- 38VDC) +/- 26VDC BLEEDER CURRENT IS INCREASED. +5VDC PERFORMANCE IS IMPROVED. EQUIVALENT TO 402214404.	49367	NONE
*402214404	1	INITIAL RELEASE OF IMBED. EQUIVALENT TO 402214304.	49367	NONE
402214305	1	REROUTE HOLES AND TRACE EQUIV. TO 402214405.	49556	NONE
402214405	1	REROUTE HOLES AND TRACE EQUIV. TO 402214305.	49556	NONE

CD TYPE: DP  
 CD LOC : A5  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - DATA PATH  
 PG EC LEVEL - 49501 DATE 04/09/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402252304	1	INITIAL RELEASE TO ENGINEERING.	49203	NONE
		RELEASE OF COMPATIBILITY	49291	
*403118201	1	I.R. OF DP CARD USING 68 PIN LSI CHIPS.EQUIVALENT TO 403118301.	49307	NONE
*403118301	1	I.R. OF EMBED TO ELIMINATE BUS BARS AND TO USE 4 LAYERS. EQUIVALENT TO 403118201.	49403	NONE
403118202	1	THE XTM CMOS CHIP REQUIRES Z3 ALL OUT. Z2 AND ANY TRACK IN Z3. THE MINIMUM PE TAPE MARK IS Z3 ALL OUT AND Z2. EQUIV. TO 403118302.	49501	NONE
403118302	1	SAME AS ABOVE EQUIV. TO 403118202.	49501	NONE

CD TYPE: DP  
CD LOC : A5  
MACHINE: 95523 TAPE UNIT  
DESCRIPTION - 2920 100 IPS TAPE UNIT  
PG EC LEVEL - 49841 DATE 01/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
403499201	1	INITIAL RELEASE OF 100 IPS DP CARD.	49655	NONE
403499202	1	DELAY TREQ TO IF CARD BY CHANGING LS74 TO S74 AND USE A +B OR C CLK IN PLACE OF -B CLK.	49841	68741

CD TYPE: EOT/BOT  
 CD LOC : DECK  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - END OF TAPE/BEGINNING OF TAPE  
 PG EC LEVEL - 49826 DATE 02/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403081201	1	INITIAL RELEASE	49204	NONE
*403081202	1	ADD NOSE TO HOUSING TO ASSURE PROPER TAPE-SENSOR DISTANCE.	49376	NONE
*403081303	2	INITIAL RELEASE OF IMBED.	49471	68356
*403081304	2	ADD HOLE FOR LOCATING PIN AND GROOVE TO REDUCE INTERNAL REFLECTION TO HOUSING. MUST BE INSTALLED CONCURRENTLY WITH EC 49563. F/B 68451.	49504	68441
403081404	2	CHANGED LENGTH OF THE CARD .080 TO AVOID INTERFERENCE BETWEEN CARD AND CONNECTOR.	49826	NONE

CD TYPE: IF  
 CD LOC : A3  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - INTERFACE/CONTROLLER CARD  
 PG EC LEVEL - 49444 DATE 01/24/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402042202	1	INITIAL RELEASE	49168	NONE
*402042203	2	REWORK TO IF CARD. PUT NEW CODE IN E PROMS TO ACCOMPANY BLOWER, RETRACTOR AND SERVO CARD CHANGES. CONCURRENT WITH EF49269 ENG TO UPDATE PRODUCT TEST. ENG TO UPDATE FIELD. LEVEL A1.05 MICROCODE.	49275	
		RELEASE OF COMPATIBILITY	49291	NONE
*402042204	3	CHANGING WRITE CORRECTION REPORTING ELIMINATING F-81 AND 'NO TRAK' PROBLEMS. LEVEL A1.06 MICROCODE CONCURRENT WITH EC49301 RD CARD 402261304.	49306	NONE
*402042205	3	CHANGES SERVO ALGORYTHM MICROCODE. LEVEL A1.07 MICROCODE.	49318	NONE
*403222201	3	INITIAL RELEASE OF XIF CARD WHICH USES 68 PIN CMOS.	49287	NONE
*403222202	3	CHANGES MICROCODE, ADDED DIAGNOSTICS-LEVEL 1.09. MAKE POWER-ON RESET TRIGGER ONLY AFTER 4 VOLTS IS REACHED.	49383	NONE
*403222203	3	CHANGE MICROCODE A1-10 LEVEL CODE. RELEASES A MANDATORY FIELD BILL.	49423 49423A	*68296
*403222204	3	CHANGE MICROCODE A1-11 LEVEL. RELEASES A MANDATORY FIELD BILL. EQUIVALENT TO 403222304.	49444	*68294

CD TYPE: IF  
 CD LOC : A3  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - INTERFACE/CONTROLLER CARD  
 PG EC LEVEL - 49569 DATE 04/24/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403222304	3	RELEASE OF 4 LAYERS XIF EQUIVALENT TO 40222204.	49392	NONE
*403222205	3	CHANGE MICRO-CODE A1-12 EQUIVALENT TO 403222305. RELEASES A MANDATORY F/B.	49477	68352
*403222305	3	CHANGE MICRO-CODE A1-12 EQUIVALENT TO 403222205. RELEASES A MANDATORY F/B.	49477	68352
*403222206	3	CHANGE MICROCODE A1-13 EQUIV. TO 403222306. RELEASES MANDATORY F/B.	49543	68418
*403222306	3	CHANGE MICROCODE A1-13 EQUIV. TO 403222206. RELEASES MANDATORY F/B.	49543	68418
*403222207	3	CHANGE MICROCODE A1-14 EQUIV. TO 403222307. RELEASES MANDATORY F/B.	49569	68449
*403222307	3	CHANGE MICROCODE A1-14 EQUIV. TO 403222207. RELEASES MANDATORY F/B.	49569	68449

CD TYPE: IF  
 CD LOC : AB  
 MACHINE: 292X TAPE UNIT  
 DESCRIPTION - INTERFACE CONTROLLER CARD  
 PG EC LEVEL - 49649 DATE 07/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403222208	3	CHANGE MICROCODE A1-15 EQUIV. TO 403222308. RELEASES MANDATORY F/B.	49576	*68455
*403222308	3	CHANGE MICROCODE A1-15 EQUIV. TO 403222208. RELEASES MANDATORY F/B.	49576	*68455
*403222209	3	CHANGE MICROCODE A1-16 EQUIV. TO 403222309. RELEASES MANDATORY F/B.	49582	*68489
*403222309	3	CHANGE MICROCODE A1-16 EQUIV. TO 403222209. RELEASES MANDATORY F/B.	49582	*68489
*403222210	3	REWORK DIAGNOSTICS MICROCODE TO RETIGGER WATCHDOG TIMER. EQUIV. TO 403222310.	49598	*68497
*403222310	3	REWORK DIAGNOSTICS MICROCODE TO RETIGGER WATCHDOG TIMER. EQUIV. TO 403222210.	49598	*68497
*403222211	3	IMPROVE LOCK-OUT DETECTION OF Z80. EQUIV. TO 403222311. RELEASES MANDATORY F/B.	49626	*68517
*403222311	3	IMPROVE LOCK-OUT DETECTION OF Z80. EQUIV. TO 403222211. RELEASES MANDATORY F/B.	49626	*68517
*403222212	3	CHANGE M-CODE A1-17. EQUIV. TO 403222312. MANDATORY F/B.	49649	*68538
*403222312	3	CHANGE M-CODE A1-17. EQUIV. TO 403222212. MANDATORY F/B.	49649	*68538

CD TYPE: IF  
CD LOC : AB  
MACHINE: 292X TAPE UNIT  
DESCRIPTION - INTERFACE CONTROLLER CARD  
PG EC LEVEL - 49806 DATE 11-84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403222213	3	CHANGE M-CODE A1-18 EQUIV TO 403222313 MANDATORY F/B.	49709	68576
*403222313	3	CHANGE M-CODE A1-18 EQUIV TO 403222213 MANDATORY F/B.	49709	68576
*403222214	3	CHANGE M-CODE A1-19 EQUIV TO 4032223-14 MANDATORY F/B.	49755	68626
*403222314	3	CHANGE M-CODE A1-19 EQUIV TO 403222214 MANDATORY F/B.	49755	68626
403222215	3	CHANGE 74S240 TO 74LS240 TO SOLVE CLOCK NOISE PROBLEM. EQUIVALENT TO 403222315.	49806	NONE
403222315	3	CHANGE 74S240 TO 74LS240 TO SOLVE CLOCK NOISE PROBLEM. EQUIVALENT TO 403222215.	49806	NONE



CD TYPE: IF  
CD LOC : A3  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - INTERFACE/CONTROLLER CARD 100IPS  
PG EC LEVEL - 49790 DATE 10/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403486201	1	INITIAL RELEASE	49653	NONE
*403486202	1	CHANGE PROMS TO B1.02 LEVEL. REWORK FOR TREQ/TRAK DIAGNOSTIC TIMING.	49772	NONE
403486203	1	CHANGE PROMS TO B1.03 LEVEL. CHANGE CLOCK DRIVER CHIP	49790	NONE

CD TYPE: KK  
CD LOC : OP PANEL  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - OP PANEL  
PG EC LEVEL - 49657M DATE 01/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402051301	1	INITIAL RELEASE TO ENGINEERING.	49031	NONE
		RELEASE OF COMPATIBILITY	49291	
402051302	1	CORRECT MOUNTING HOLE POSITION	49630	NONE
402051402	1	CHANGE ARTWORK TO NEW HOLE LOCATIONS.	49657M	NONE

CD TYPE: NK  
 CD LOC : POWER SUPPLY  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - VOLTAGE REGULATOR  
 PG EC LEVEL - 49414 DATE 01/13/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
402213301	1	DARLINGTON DR XSTR-INT CONFIG	49223	NONE
*402213302	1	CHANGED TRANSISTOR FROM TIP120 TO D44H11 SWITCHING XSTR INITIAL RELEASE.	49223	NONE
		RELEASE OF COMPATIBILITY	49291	
402213402	1	CHANGED FILM TO PLACE FEED THROUGH PADS ON HOLES 1-5 ON COMPONENT SIDE. INITIAL RELEASE.	49414	NONE

CD TYPE: PK  
 CD LOC : POWER SUPPLY  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - SHORT CIRCUIT DETECT  
 PG EC LEVEL - 49818 DATE 10/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402055304	1	INITIAL RELEASE TO ENGINEERING.	49241	NONE
		RELEASE OF COMPATIBILITY	49291	
*402055305	1	TIMING CONSTANT C4 INCREASED. GAIN CHANGED AND TRANSFORMER NOTES CLARIFIED. MAGNETICSHIELD ADDED TO DIP RELAY TO PREVENT OPERATION DUE TO TRANSFORMER LEAKAGE FLUX.	49255	
*402055306	1	MOUNTING HOLES CHANGED TO SLOTTED HOLES TO ALLOW EASIER MOUNTING TO TRANSFORMER.	49368	NONE
*402055307	2	CUT TRACE RUNNING UNDER TBI ON PK CARD. TRACE IS CUT IN 5 PLACES TO ELIMINATE ALL POSSIBLE SHORT CIRCUITS. REWORK WIRE IS ADDED RESTORE ORIGINAL CONNECTION.	49545	68416
402055308	2	ADDING A CAPACITOR TO FORCE CB TO TRIP WHEN FERRO CAP WINDING IS SHORTED:REPLACING READ REPLAY WITH MECHANICAL RELAY TO IMPROVE IMMUNITY TO STRAY FIELDS FROM TRANSFORMER. EQUIV. TO 402055409.	49195	NONE
*402055408	2	ADDING A CAPACITOR TO FORCE CB TO TRIP WHEN FERRO CAP WINDING IS SHORTED:REPLACING READ REPLAY WITH MECHANICAL RELAY TO IMPROVE IMMUNITY TO STRAY FIELDS FROM TRANSFORMER.	49195	NONE
402055409	2	ELIMINATE FALSE TRIP BY ADDING DIODE(CR12). REMOVES RACE CONDITION BY REVERSING SENSE OF OUTPUT RELAY. EQUIV TO 402055308.	49818	68671

CD TYPE: RD  
 CD LOC : A6  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - AMPLIFY & DETECT READ HEAD DATA  
 PG EC LEVEL - 49769 DATE 09/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402261303	1	INITIAL RELEASE TO ENGINEERING	49225	NONE
		RELEASE OF COMPATIBILITY	49291	
*402261304	2	REDUCE WRITE AMP SENSE THRESHOLD FROM 25% TO 15%. CONCURRENT WITH EC40306 IF CARD 402042204.	49301	NONE
*402261305	2	ALLOWS REAR CABLE TO BE LOCKED.	49422	NONE
*402261306	2	ENABLES READ CABLE TO BE LOCKED TO RD CARD. CONCURRENT WITH EC 49389A, F/B 68340.	49499	68338
402261307	2	DELETE 10UF CAP(C31) FROM-8V REGULATOR CIRCUIT.	49769	NONE

CD TYPE: SV  
 CD LOC : A1  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - SERVO CONTROL  
 PG EC LEVEL - 49863 DATE 01/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402239203	1	INITIAL RELEASE	49227	NONE
		RELEASE OF COMPATIBILITY	49387	
			49291	
*402239307	1	RELEASE OF 300 LEVEL	49269	NONE
*402239308	1	ADD RESISTOR TO EPO DRIVER THRESHOLD.	49336	NONE
*402239309	2	ADD "DOOR AJAR" INTERLOCK CIRCUITRY. MACHINES WITHOUT INTERLOCK SWITCH MUST HAVE MOTHERBOARD JUMPER (B02 TO A02) INSTALLED.	49250	NONE
			49250A	68360
*402239310	2	DISABLE BOTH REEL MOTOR DRIVERS WHEN REELS SHOULD BE STILL. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49510	68437
			49863	NONE
*402239311	2	TRIM FILE REEL DAC OFFSET VOLTAGE. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49658	NONE
			49863	NONE
402239312	2	ALLOWS EVEN EXTREME VALVES AT FILE REEL DAC OFFSET VOLTAGE TO BE TRIMMED, IMPROVING FILE REEL SPEED DRIVING LOAD. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49770	NONE
			49863	NONE
402239413	2	RELEASE OF 400 LEVEL EMBED OF 300 LEVEL. EQUIVALENT TO 402239312. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49715	NONE
			49863	NONE

CD TYPE: WR  
 CD LOC : A4  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - WR DRIVERS SENSOR CIRCUITRY  
 PG EC LEVEL - 49799 DATE: 11/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402273203	1	INITIAL RELEASE 200 LEVEL. EQUIV TO 402273304	49200	NONE
*402273304	1	IR 300 LEVEL. FUNC EQUIV TO 402273203	49262	NONE
		RELEASE OF COMPATIBILITY	49291	
*402273305	1	CHANGE U18 TO A SCHMITT- TRIGGER DEVICE TO ACCOMODATE ALL VENDORS OF U3. ALL 402273304 CARDS SHIPPED ARE OK.	49357	NONE
*402273306	1	REDUCE RFI RADIATION THROUGH REDUCED PE AC BIAS IN GCR MODE.	49416	NONE
*402273307	1	BY-PASS "WRITE CURRENT ON" ELIMINATES NOISE PROBLEMS DURING WRITE OPERATION WHICH CAUSES F91 FAILURES. REPLACED WITH "ENABLE WRITE CURRENT".	49474	NONE
*402273308	2	CHANGE OUTPUT TIMING OF WR CARD TRIANGLE GENERATOR BY CHANGING VALUE OF ONE CAPACITOR, MUST BE INSTALLED CONCURRENTLY WITH EC49504 F/B 68441.	49563	68451*
*402273309	2	ADD 120 HZ FILTER TO LEADER SENSE ADD 1 CAP & 1 RESISTOR. IMPROVE FREQUENCY RESPONSE OF BOT-TAPE PRESENT CIRCUIT BY CHANGING R39, R44,R45. CHANGE TIMING OF TRIANGLE GENERATOR. TURN ON TAPE-PRESENT LED WITH A SQUARE WAVE INSTEAD OF A RAMP. EC49504 F/B68441 IS A PREREQUISITE.	49611	68514

CD TYPE: WR  
 CD LOC : A4  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - WR DRIVERS SENSOR CIRCUITY  
 PG EC LEVEL - 49799M DATE 01/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402273310	2	CHANGE THRESHOLD ON FILE PROTECT DETECTION CIRCUIT FROM 200MV TO 440MV. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49673 49863	68584 NONE
*402273311	2	REMOVE C14 TO ELIMINATE POWER UP PROBLEMS WITH SOME 2.5 VOLT REGULATORS. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49741 49863	NONE NONE
402273312	2	ADD CAPACITOR TO ELIMINATE NOISE ON RAMP GENERATOR. THIS FACTORY ONLY CHANGE WAS MADE TO IMPROVE CARD TEST YIELDS. COMPATIBILITY NUMBER ROLLED BACK. NO COMPATIBILITY BREAK.	49799 49799M 49863	NONE NONE NONE



CD TYPE: WR  
CD LOC : A4  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - WR DRIVERS SENSOR CIRCUITRY  
PG EC LEVEL - 49573 DATE 09-84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
403503201	1	INITIAL RELEASE 100IPS WRITE DRIVER CARD	49573	NONE

ID TYPE: DG  
ID LOC : XX  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - EXTERNAL OPERATOR CONTROL  
G EC LEVEL - 49449 DATE 07/10/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403378201	1	INITIAL RELEASE OF NEW LAYOUT.	49449	NONE
403378202	1	CHANGE 10UF CAP TO 6.8UF	49603	NONE

CD TYPE: PA  
CD LOC : SIDE OF CARD CAGE  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - INDUSTRY STANDARD TO STC ADAPTOR  
PG EC LEVEL - 49574 DATE 07/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
403497201	1	INITIAL RELEASE	49574	NONE

CD TYPE: PB  
CD LOC : SIDE OF CARD CAGE  
MACHINE: 2920 TAPE UNIT  
DESCRIPTION - INDUSTRY STANDARD TO STC ADAPTOR  
PG EC LEVEL - 49575 DATE 07/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
403498201	1	INITIAL RELEASE	49575	NONE

CD TYPE: RD  
CD LOC : A6  
MACHINE: AVALANCHE 100 IPS  
DESCRIPTION - READ A/D, CLOCKING AND DETECTION  
PG EC LEVEL - 49882 DATE 02/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403504201	1	INITIAL RELEASE OF RD 100 IPS CARD.	49692	NONE
403504202	1	CORRECT 100 IPS PE ANALOG SIGNAL DISTORTION BY GAIN ADJUSTMENT.	49882	68777

CD TYPE: IFP  
 CD LOC : A3  
 MACHINE: INDUSTRY STANDARD  
 DESCRIPTION - PERTEC INTERFACE PC CARD  
 PG EC LEVEL - 49808 DATE 11/84

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403459201	1	INITIAL RELEASE	49650	NONE
*403459202	1	ADD LATCH AND UPDATE PROMS TO LEVEL C1.02	49763	NONE
*403459203	1	LENGTHEN POWER-ON RESET BY CHANGING TIMING CAP IN CIRCUIT.	49777	NONE
*403459204	1	FIX DENSITY SELECT PROBLEM AND FIX HANG AT BOT WITH CODE CHANGE LEVEL C1.03.	49793	NONE
403459205	1	FIXES TEST 12 AND 34C, F99 IN DIAGNOSTICS, BUS PARITY ERROR IN PE, PE ID BURST LENGTH, FEN RESET LINE, ADJUSTS SERVO TO 50 IPS, RESETS FBY AFTER A REWIND, CORRECTS ADDRESS LINES, WITH CODE CHANGE LEVEL C1.04.	49808	68670

CD TYPE: IFP,(100IPS)  
 CD LOC : A3  
 MACHINE: 2920 TAPE UNIT  
 DESCRIPTION - INTERFACE/CONTROLLER CARD,IND.STD  
 PG EC LEVEL - 49869 DATE 02/85

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*403595201	1	INITIAL RELEASE	49791	NONE
*403595202	1	CORRECT ADDRESS LINES.	49808	68681
*403595203	1	WIRE CHANGE TO HANDLE FASTER DATA FOR 100 IPS INCLUDED ALL THE FIXES IN CODE C1.04 (EC 49808) ALLOW 100 IPS STREAMING M-CODE LEVEL D1.02	49831	NONE
*403595204	1	CHANGE M-CODE LEVEL D1.03 FIXES MOTOR BURN OUT, LEAVES HARD ERROR ASSERTED AFTER "TAPE LOST POSITION" ERROR RESET HARD ERROR AFTER REWIND OR BACKSPACE FILE. EQUIVALENT TO 403595203.	49849	*68732
403595205	1	CHANGE M-CODE LEVEL D1.04, FIXES F71 ERRORS HARDWARE CHANGE TO WORK WITH LATEST LEVEL OP CARDS FASTER TRAK TIMING TO DP CARD BY 50NS. ADD GAP AND SPEED SELECTION VIA SWITCH.	49869	68766

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 1

MLL

EC NO.	EIR NO.	F/B NO.	S T	MUD FEAT	INCORP DATE	SNBI	ECN
				HEAD			
49141			1	2920	4/10/83	000001	
49031			1	2920	5/31/83	000001	
49168			1	2920	6/ 7/83	000001	
49203			1	2920	6/ 8/83	000001	
49223			1	2920	6/ 9/83	000001	
49225			1	2920	6/15/83	000001	
44964			1	2920	6/24/83	000001	
49161			1	2920	6/24/83	N/A	
49098			1	2920	6/24/83	N/A	
49095			1	2920	6/24/83	000001	
49193			1	2920	6/28/83	N/A	
44970			1	2920	6/29/83	N/A	
49200			1	2920	6/30/83	000001	
49200N			1	2920	6/30/83	000001	
49206			1	2920	6/30/83	N/A	
49206N			1	2920	6/30/83	N/A	
49121			1	2920	6/30/83	N/A	
44949			1	2920	6/30/83	N/A	
44963			1	2920	6/30/83	N/A	
49131			1	2920	7/ 1/83	N/A	
49245			1	2920	7/ 1/83	000001	
44957			1	2920	7/ 1/83	N/A	
49186			1	2920	7/ 1/83	N/A	
49142			1	2920	7/13/83	N/A	
49183			1	2920	7/13/83	N/A	
49102			1	2920	7/13/83	N/A	
44965			1	2920	7/13/83	N/A	
49011			1	2920	7/13/83	N/A	
49170			1	2920	7/14/83	N/A	
49240			1	2920	7/14/83	N/A	
49217			1	2920	7/14/83	N/A	
49221			1	2920	7/14/83	N/A	
49261			1	2920	7/15/83	N/A	
49188			1	2920	7/15/83	N/A	
44935			1	2920	7/15/83	N/A	
49118			1	2920	7/15/83	N/A	
49084			1	2920	7/15/83	N/A	
49216			1	2920	7/18/83	N/A	
49201			1	2920	7/19/83	N/A	
49166			1	2920	7/21/83	000007	
49166N			1	2920	9/13/83	000007	
49262			1	2920	7/20/83	000008	
						THRU	
						000010	
						000012	
						000015	
						THRU	
						000017	
						000020	
49135			1	2920	7/20/83	N/A	
44930			1	2920	7/20/83	N/A	
49002			1	2920	7/20/83	N/A	
44969			1	2920	7/20/83	N/A	



MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 2

MLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49210			1	2920	7/21/83	N/A	
49037			1	2920	7/21/83	N/A	
49085			1	2920	7/21/83	N/A	
44921			1	2920	7/21/83	N/A	
49227			1	2920	7/26/83	N/A	
49275			1	2920	7/27/83	000001 000009 THRU 000012 000015 000018 000023	
49301			5	2920	8/25/83	000009 THRU 000012 000015 000018 000023	
49269			5	2920	8/25/83	000009 THRU 000012 000015 000018 000023	
49306			5	2920	8/25/83	000009 THRU 000012 000015 000018 000023	
49220			1	2920	9/15/83	000025	
49322			1	2920	9/ 7/83	000025	
49294			1	2920	10/19/83	000025	
49241			1	2920	7/27/83	000027	
49093			1	2920	7/29/83	N/A	
49222			1	2920	8/12/83	000027	
49318			5	2920	9/ 9/83	000012 000019 000023 000024 000026 000027 000028 000029	
49184			1	2920	8/26/83	000019 000027 000029	
49184P			1	2920	9/23/83	000019 000027 000029	
49304			1	2920	9/ 1/83	N/A	
49291			1	2920	9/12/83	N/A	
49288			1	2920	9/13/83	N/A	
49323			1	2920	9/13/83	N/A	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

MLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
49187			1	2920	9/14/83	N/A	
49162			1	2920	9/14/83	N/A	
49336			1	2920	9/29/83	000025	
						000029	
						000035	
						000036	
						000038	
						000040	
						000041	
						000045	
49041			1	2920	8/17/83	N/A	
49303			1	2920	8/24/83	N/A	
49235			1	2920	8/24/83	N/A	
49235N			1	2920	2/17/84	N/A	
49238			1	2920	7/20/83	000041	
49189			1	2920	7/20/83	000042	
49279			1	2920	7/19/83	N/A	
49280			1	2920	8/10/83	N/A	
49305			1	2920	8/29/83	N/A	
49331			1	2920	9/21/83	N/A	
49197			1	2920	9/28/83	N/A	
49312			1	2920	9/30/83	N/A	
49312N			1	2920	12/ 9/83	N/A	
49296			1	2920	10/10/83	000049	
49365			1	2920	11/11/83	N/A	
49362			1	2920	11/11/83	000049	
49365			1	2920	11/15/83	N/A	
49365			1	2920	11/28/83	N/A	
49375			1	2920	11/28/83	N/A	
49370			1	2920	12/16/83	N/A	
49397			1	2920	11/29/83	N/A	
49385			1	2920	11/29/83	N/A	
49376			1	2920	11/30/83	000049	
49302			1	2920	12/ 2/83	N/A	
49406			1	2920	12/ 8/83	N/A	
49394			1	2920	12/15/83	N/A	
49393			1	2920	12/15/83	N/A	
49402			1	2920	12/15/83	N/A	
49398			1	2920	12/16/83	N/A	
49370			1	2920	11/28/83	000049	
						THRU	
						000051	
						000053	
49369			1	2920	12/20/83	000058	
49355			1	2920	12/23/83	000067	
49423			5	2920	12/30/83	000109	
						000119	
						000121	
						THRU	
						000125	
						000127	
						THRU	
						000129	
						000137	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 4

MMLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
49423A		68296	5	2920	1/21/84	000142 000109 000119 000121 THRU 000125 000127 THRU 000129 000137 000142	
49128			1	2920	1/13/84	N/A	
49431			1	2920	1/13/84	N/A	
49444		68294	5	2920	1/16/84	000072 000085 000087 000101 000102 000111 000124 000125 000127 000128 000129 000171 000172 000174 000176 000177 000180	
49439			1	2920	1/16/84	000072 000085 000087 000101 000102 000111 000119 THRU 000125 000127 000128 000129 000142 000143 000147 000148 000150	
49435		68270	5	2920	1/26/84	000072 000085 THRU 000087 000100 THRU 000102	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 5

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						000111	
						000112	
						000125	
						000126	
						000127	
						000142	
						000143	
						000147	
						000148	
						000150	
49416			1	2920	1/16/84	000072	
						000085	
						000087	
						000101	
						000102	
						000111	
						000112	
						000119	
						000122	
						000124	
						000125	
						000127	
						000128	
						000129	
						000151	
						000153	
						000154	
						000155	
						000160	
49428			1	2920	1/21/84	N/A	
49398			1	2920	1/21/84	N/A	
49341			1	2920	1/21/84	N/A	
49342			1	2920	1/21/84	N/A	
49343			1	2920	1/21/84	N/A	
49344			1	2920	1/21/84	N/A	
49345			1	2920	1/21/84	N/A	
49346			1	2920	1/21/84	N/A	
49347			1	2920	1/21/84	N/A	
49348			1	2920	1/21/84	N/A	
49477		68352	5	2920	2/ 6/84	000125	
						000171	
						000174	
						000176	
						000188	
						000190	
						000192	
						THRU	
						000194	
						000196	
49474			1	2920	2/ 6/84	000125	
						000190	
						000197	
						THRU	
						000212	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 6

1MLL

EC NU.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						000214	
49387			1	2920	2/ 3/84	N/A	
49460			1	2920	2/ 3/84	N/A	
49388			1	2920	2/ 3/84	N/A	
49450			1	2920	2/ 3/84	N/A	
49447			1	2920	2/ 3/84	N/A	
49415			1	2920	2/ 3/84	N/A	
49446			1	2920	2/ 3/84	N/A	
49420		68224	4	2920	2/10/84	N/A	
49443			1	2920	2/10/84	N/A	
49466			1	2920	2/10/84	N/A	
49419			1	2920	2/17/84	N/A	
49432			1	2920	2/17/84	N/A	
49461			1	2920	2/17/84	N/A	
49396			1	2920	2/17/84	N/A	
49250		68360	5	2920	2/29/84	000125	
						000171	
						000174	
						000176	
						000188	
						000190	
						000192	
						THRU	
						000194	
						000196	
						THRU	
						000213	
						000216	
49487		68376	5	2920	3/ 1/84	000216	
49481		68374	5	2920	3/ 5/84	000125	
49545		68416	5	2920	3/15/84	000218	
49489		68376	5	2920	3/30/84	000218	
49552		68427	5	2920	4/10/84	000218	
49516		68424	5	2920	4/10/84	000218	
49569		68449	5	2920	4/10/84	000237	
49510		68437	5	2920	4/10/84	000237	
49504		68441	5	2920	4/13/84	000237	
49563		68451	5	2920	4/10/84	000237	
49576		68455	5	2920	4/10/84	000237	
49582		68489	5	2920	5/15/84	000375	
49508			1	2920	5/31/84	N/A	
49389		68340	5	2920	6/ 1/84	001156	
						THRU	
						001162	
						000108	
						000195	
						000121	
						000317	
						000122	
						000186	
						000066	
						000118	
						000128	
						000129	



MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 8

MMLL

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
						001563	
49556N			1	2920	7/25/84	N/A	
49660			1	2920	7/16/84	001645	
49648			1	2920	7/20/84	N/A	
49649		68548	5	2920	7/10/84	001674	
		68538					
49644			1	2920	7/23/84	N/A	
49613			1	2920	7/30/84	N/A	
49709		68576	5	2920	7/31/84	001676	
49664		68540	5	2920	8/ 8/84	001562	
						001565	
						001566	
						001606	
						001609	
						THRU	
						001611	
						001625	
						001626	
						001627	
						001629	
						THRU	
						001639	
						001643	
						001647	
						001648	
						001649	
						001663	
						THRU	
						001670	
						001672	
						001673	
						001676	
49658			1	2920	8/ 8/84	001688	
49692			1	2920	8/20/84	N/A	
49692N			1	2920	8/20/84	N/A	
49618			1	2920	8/20/84	001679	
						001713	
						001718	
						001737	
49631			1	2920	8/20/84	001679	
						001713	
						001718	
						001737	
49427			1	2920	8/20/84	001698	
49654			1	2920	8/20/84	N/A	
49599			1	2920	8/21/84	N/A	
49665			1	2920	8/21/84	N/A	
49666			1	2920	8/21/84	N/A	
49763			1	2920	8/21/84	001819	
49534			1	2920	8/21/84	N/A	
49612			1	2920	8/21/84	N/A	
49403			1	2920	8/21/84	N/A	
49684			1	2920	8/21/84	N/A	
49673		68584	5	2920	9/ 7/84	001838	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 9

MMLL

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
						001840	
						001898	
						THRU	
						001901	
						001905	
49681			1	2920	8/20/84	001901	
49741			1	2920	9/ 7/84	001838	
						001840	
						001898	
						THRU	
						001901	
						001905	
49696P			1	2920	9/17/84	N/A	
49491			1	2920	9/20/84	001838	
						001839	
						001840	
						001842	
						001844	
						001846	
						001848	
						001885	
						THRU	
						001888	
						001891	
						001893	
						THRU	
						001899	
						001902	
						THRU	
						001905	
						001909	
49788			1	2920	9/24/84	N/A	
49678			1	2920	9/11/84	001907	
49651			1	2920	9/24/84	001909	
49770			1	2920	9/19/84	001921	
						001923	
						001941	
						001949	
49755		68626	5	2920	9/18/84	001953	
49762			1	2920	9/18/84	N/A	
49677			1	2920	9/18/84	N/A	
49536			1	2920	9/ 7/84	001963	
49612P			1	2920	9/28/84	N/A	
49791			1	2920	9/28/84	N/A	
49793			1	2920	9/28/84	N/A	
49765			1	2920	10/17/84	N/A	
49640			1	2920	8/26/84	N/A	
49640N			1	2920	8/26/84	N/A	
49787			1	2920	10/ 8/84	N/A	
49531			1	2920	10/ 6/84	N/A	
49195			1	2920	10/ 6/84	001985	
						002020	
						002026	
						002030	



MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 10

MMLL

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49790			1	2920	10/30/84	002031 001553 001898 002037 002027 002028 002029 002034 002035	
43363			1	2920	10/17/84	N/A	
49765			1	2920	10/20/84	N/A	
49783			1	2920	10/22/84	N/A	
49645			1	2920	10/25/84	N/A	
49745			1	2920	10/ 6/84	001985	
						002020 002026 002030 002031	
49669			1	2920	10/ 9/84	N/A	
49782			1	2920	10/17/84	N/A	
49800			1	2920	10/17/84	N/A	
49794			1	2920	10/17/84	N/A	
49795			1	2920	10/17/84	N/A	
49803			1	2920	10/17/84	N/A	
49679			1	2920	10/17/84	N/A	
49778			1	2920	10/18/84	N/A	
49818		68672	5	2920	10/23/84	001985 THRU 001989 001992 THRU 001999 002002 002003 002005 THRU 002023 002030 002031 002037 002039	
49820			1	2920	10/29/84	N/A	
49702			1	2920	10/30/84	N/A	
49689			1	2920	11/13/84	002116 002130 THRU 002142 002148 002149 002159 THRU 002167 002196	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 11

4MLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						002256	
						002259	
49612			1	2920	11/13/84	002117	
						THRU	
						002120	
						002122	
						002123	
						002134	
						002158	
49808		68670	5	2920	11/ 2/84	002150	
		68681					
49769			1	2920	11/ 2/84	002128	
						002134	
						THRU	
						002150	
						002155	
						002156	
						002157	
						002168	
						THRU	
						002192	
						002195	
						002201	
						THRU	
						002232	
						002235	
49817			1	2920	11/ 5/84	N/A	
49717			1	2920	11/ 5/84	N/A	
49704			1	2920	10/ 6/84	N/A	
49676			1	2920	11/ 8/84	002155	
						THRU	
						002157	
						002167	
49463			1	2920	11/ 8/84	002128	
						002134	
						THRU	
						002147	
						002150	
						002152	
						THRU	
						002157	
						002168	
						THRU	
						002195	
						002197	
49675			1	2920	11/ 8/84	002000	
49815			1	2920	11/19/84	N/A	
49816			1	2920	11/19/84	N/A	
49811			1	2920	11/19/84	N/A	
49831		68713	5	2920	11/20/84	002154	
						002197	
						002199	
						002202	
49663			1	2920	11/30/84	002224	

MMLL

MASTER MACHINE LEVEL LISTING  
AVALANCHE

6/04/85  
PAGE: 12

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49614			1	2920	11/30/84	001838 001839 001840 001898 THRU 001943 001945 THRU 001950 001987 002000 THRU 002021 002023 THRU 002062 002073 THRU 002088 002090 THRU 002092 002094 002112 THRU 002127 002130 THRU 002137 002139 THRU 002149 002155 THRU 002164 002166 002167 002171 THRU 002187 002192 002195 002196 002199 002201 THRU 002104 002208 THRU 002232 002235 THRU 002267 002270	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

MMLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCRP DATE	.SNBI	ECN
49590			1	2920	11/30/84	N/A	
49659			1	2920	11/30/84	001838	
						001840	
						001839	
						001898	
						THRU	
						001843	
						001945	
						THRU	
						001950	
						001987	
						002000	
						THRU	
						002021	
						002023	
						THRU	
						002062	
						002073	
						THRU	
						002088	
						002090	
						THRU	
						002092	
						002094	
						002112	
						THRU	
						002127	
						002130	
						THRU	
						002137	
						002139	
						THRU	
						002149	
						002155	
						THRU	
						002164	
						002166	
						THRU	
						002167	
						002192	
						002195	
						002196	
						002199	
						002201	
						THRU	
						002204	
						002208	
						THRU	
						002232	
						002235	
						THRU	
						002267	
						002270	
49567			1	2920	11/30/84	001838	

MMLL

MASTER MACHINE LEVEL LISTING  
AVALANCHE

6/04/85  
PAGE: 14

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
						001839	
						001840	
						001898	
						THRU	
						001943	
						001945	
						THRU	
						001950	
						001987	
						002000	
						THRU	
						002021	
						002023	
						THRU	
						002062	
						002073	
						THRU	
						002088	
						002090	
						THRU	
						002092	
						002094	
						002112	
						THRU	
						002127	
						002130	
						THRU	
						002137	
						002139	
						THRU	
						002149	
						002155	
						THRU	
						002164	
						002166	
						002167	
						002171	
						THRU	
						002187	
						002192	
						002195	
						002196	
						002199	
						002201	
						THRU	
						002204	
						002208	
						THRU	
						002232	
						002235	
						THRU	
						002267	
						002270	
49740			1	2920	11/30/84	001838	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 15

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						001839	
						001840	
						001898	
						THRU	
						001843	
						001945	
						THRU	
						001950	
						001987	
						002000	
						THRU	
						002021	
						002023	
						THRU	
						002062	
						002073	
						THRU	
						002088	
						002090	
						THRU	
						002092	
						002094	
						002112	
						THRU	
						002127	
						002130	
						THRU	
						002137	
						002139	
						THRU	
						002149	
						002155	
						THRU	
						002164	
						002166	
						002167	
						002171	
						THRU	
						002187	
						002192	
						002195	
						002196	
						002199	
						002201	
						THRU	
						002204	
						002208	
						THRU	
						002232	
						002235	
						THRU	
						002267	
						002270	
49790			1	2920	12/10/84	002369	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 16

1MLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
49749			1	2920	12/ 5/84	N/A	
49520			1	2920	12/10/84	N/A	
49520N			1	2920	12/10/84	N/A	
49849		68732	5	2920	12/13/84	002373	
49869	33	68767	5	2920	2/15/85	002373	
49452			1	2920	12/13/84	002236	
						002336	
						002338	
						002339	
						002379	
						002380	
						002390	
						002391	
						002406	
						THRU	
						002409	
						002420	
						002422	
						002428	
						THRU	
						002437	
						002462	
						THRU	
						002467	
						002470	
						THRU	
						002485	
						002489	
						THRU	
						002505	
						002516	
						002520	
49642			1	2920	12/13/84	002236	
						002336	
						002338	
						002339	
						002379	
						002380	
						002390	
						002391	
						002406	
						THRU	
						002409	
						002420	
						002422	
						002428	
						THRU	
						002437	
						002462	
						THRU	
						002467	
						002470	
						THRU	
						002485	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

1MLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						002489	
						THRU	
						002505	
						002516	
						002520	
49642X			1	2920	12/13/84	N/A	
49687			1	2920	12/13/84	002236	
						002336	
						002338	
						002339	
						002379	
						002380	
						002390	
						002391	
						002406	
						THRU	
						002409	
						002420	
						002422	
						002428	
						THRU	
						002437	
						002462	
						THRU	
						002467	
						002470	
						THRU	
						002485	
						002489	
						THRU	
						002505	
						002516	
						002520	
49687N			1	2920	12/13/84	N/A	
49830			1	2920	2/ 1/85	002700	
49599			1	2920	12/14/84	N/A	
49841		68741	4	2920	12/17/84	002406	
						002450	
						THRU	
						002455	
						002462	
						002465	
49882		68777	5	2920	2/21/85	002373	
						002382	
						002386	
						002387	
						002388	
						002407	
						002408	
						002409	
						002422	
						002433	
						THRU	
						002437	



MMLL

MASTER MACHINE LEVEL LISTING  
AVALANCHE

6/04/85  
PAGE: 18

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
						002457	
						002476	
						002478	
						002479	
						002480	
						002481	
						002494	
						THRU	
						002506	
						002516	
						002531	
49882N			5	2920	2/21/85	N/A	
49749		68664	5	2920	12/17/84	002236	
						002336	
						002338	
						002339	
						002379	
						002380	
						002390	
						002391	
						002406	
						THRU	
						002409	
						002422	
						002433	
						THRU	
						002437	
						002439	
						002440	
						002450	
						THRU	
						002455	
						002457	
						002462	
						002465	
						THRU	
						002467	
						002471	
						THRU	
						002485	
						002494	
						THRU	
						002505	
						002516	
						002527	
						THRU	
						002532	
						002534	
						THRU	
						002536	
						002538	
49863			1	2920	12/21/84	N/A	
49553			1	2920	12/21/84	N/A	
49822			1	2920	12/21/84	N/A	









MASTER MACHINE LEVEL LISTING  
 AVALANCHE

6/04/85  
 PAGE: 23

IMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						003115	
						003133	
						THRU	
						003142	
						003149	
						THRU	
						003158	
						003161	
						THRU	
						003165	
						003279	
						THRU	
						003298	
						003344	
						THRU	
						003348	
						003353	
						THRU	
						003356	
						003398	
						003399	
						003401	
						003403	
						THRU	
						003407	
						003431	
49662N			1	2920	2/27/85	N/A	
49662P			1	2920	3/14/85	N/A	
49865			5	2920	5/24/85	002976	
						002977	
						002979	
						THRU	
						002982	
						003024	
						003025	
						003071	
						003072	
						003116	
						003117	
						003147	
						THRU	
						003148	
						003324	
						003360	
						THRU	
						003362	
						003681	
49865A		68817	5	2920	5/24/85	N/A	
49865N			1	2920	4/24/85	N/A	
49553			1	2920	5/24/85	N/A	
49553X			1	2920	5/24/85	N/A	
49455			1	2920	5/24/85	N/A	
49927			1	2920	5/24/85	N/A	
49937		68857	5	2920	6/ 4/85	003321	

MASTER MACHINE LEVEL LISTING  
AVALANCHE

6/04/85  
PAGE: 24

MMLL

EC NU.	EIR NO.	F/B NO.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
49938		68767	5	2920	6/ 4/85	003444 003405 003448	

MASTER MACHINE LEVEL LISTING  
 AVALANCHE

8/09/85  
 PAGE: 28

1. MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						THRU	
						003621	
						003623	
	49514		1	2920	6/28/85	003623	
						THRU	
						003646	
						003666	
14	49923	68837	5	2920	6/18/85	003607	
						THRU	
						003609	
						003611	
						003615	
						003616	
						003667	
						003668	
						THRU	
						003673	
						003675	
						003693	
						THRU	
						003700	
						003734	
15	49934	68843	5	2920	6/18/85	003607	
						THRU	
						003609	
						003611	
						003615	
						003616	
						003667	
						003668	
						THRU	
						003673	
						003675	
						003693	
						THRU	
						003700	
						003734	
						003720	
	49832		1	2920	6/28/85	003726	
						THRU	
						003762	
						003766	
	49931		1	2920	6/20/85	N/A	
	49891		1	2920	6/20/85	N/A	
	49875		1	2920	6/20/85	N/A	
46	49936	68839	5	2920	6/24/85	003772	
	49881		1	2920	6/20/85	N/A	
	49881M		1	2920	6/20/85	N/A	
	49837	68692	2	2920	6/25/85	N/A	
	49837N		1	2920	7/10/85	N/A	
	49378		1	2920	6/25/85	N/A	
	49909		1	2920	6/25/85	N/A	
47	49781	68851	5	2920	6/25/85	003759	
						003762	



MASTER MACHINE LEVEL LISTING  
 AVALANCHE

8/09/85  
 PAGE: 29

1. MMLL

	EC NO.	EIR NO.	F/S NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
							003772	
8	49916		68829	5	2920	6/26/85	003772	
9	49908		68813	5	2920	6/26/85	003772	
	49958			1	2920	6/28/85	N/A	
	49955			1	2920	6/28/85	N/A	
	49954			1	2920	6/28/85	N/A	
	49715			1	2920	7/ 1/85	003794	
	49913			1	2920	7/10/85	N/A	
	49960			1	2920	7/10/85	N/A	
	49826N			1	2920	7/10/85	N/A	
	49827N			1	2920	7/10/85	N/A	
10	57135		68655	5	2920	8/ 8/85	003950	

MASTER MACHINE LEVEL LISTING  
 D.G. AVALANCHE

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
				HEAD			
49141			1	2920	4/10/83	000001	
49031			1	2920	5/31/83	000001	
49168			1	2920	6/ 7/83	000001	
49203			1	2920	6/ 8/83	000001	
49223			1	2920	6/ 9/83	000001	
49225			1	2920	6/15/83	000001	
44964			1	2920	6/24/83	000001	
49161			1	2920	6/24/83	N/A	
49098			1	2920	6/24/83	N/A	
49095			1	2920	6/24/83	000001	
49193			1	2920	6/28/83	N/A	
44970			1	2920	6/29/83	N/A	
49200			1	2920	6/30/83	000001	
49200N			1	2920	6/30/83	000001	
49206			1	2920	6/30/83	N/A	
49206N			1	2920	6/30/83	N/A	
49121			1	2920	6/30/83	N/A	
44949			1	2920	6/30/83	N/A	
44963			1	2920	6/30/83	N/A	
49131			1	2920	7/ 1/83	N/A	
49245			1	2920	7/ 1/83	000001	
44957			1	2920	7/ 1/83	N/A	
49186			1	2920	7/ 1/83	N/A	
49142			1	2920	7/13/83	N/A	
49183			1	2920	7/13/83	N/A	
49102			1	2920	7/13/83	N/A	
44965			1	2920	7/13/83	N/A	
49011			1	2920	7/13/83	N/A	
49170			1	2920	7/14/83	N/A	
49240			1	2920	7/14/83	N/A	
49217			1	2920	7/14/83	N/A	
49221			1	2920	7/14/83	N/A	
49261			1	2920	7/15/83	N/A	
49188			1	2920	7/15/83	N/A	
44935			1	2920	7/15/83	N/A	
49118			1	2920	7/15/83	N/A	
49084			1	2920	7/15/83	N/A	
49216			1	2920	7/18/83	N/A	
49201			1	2920	7/19/83	N/A	
49166			1	2920	7/21/83	000007	
49166N			1	2920	9/13/83	000007	
49262			1	2920	7/20/83	000008	
						THRU	
						000010	
						000012	
						000015	
						THRU	
						000017	
						000020	
49135			1	2920	7/20/83	N/A	
44930			1	2920	7/20/83	N/A	
49002			1	2920	7/20/83	N/A	
44969			1	2920	7/20/83	N/A	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 2

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
49210			1	2920	7/21/83	N/A	
49037			1	2920	7/21/83	N/A	
49085			1	2920	7/21/83	N/A	
44921			1	2920	7/21/83	N/A	
49227			1	2920	7/26/83	N/A	
49275			1	2920	7/27/83	000001	
						000009	
						THRU	
						000012	
						000015	
						000018	
						000023	
49301			5	2920	8/25/83	000009	
						THRU	
						000012	
						000015	
						000018	
						000023	
49269			5	2920	8/25/83	000009	
						THRU	
						000012	
						000015	
						000018	
						000023	
49306			5	2920	8/25/83	000009	
						THRU	
						000012	
						000015	
						000018	
						000023	
49220			1	2920	9/15/83	000025	
49322			1	2920	9/ 7/83	000025	
49294			1	2920	10/19/83	000025	
49241			1	2920	7/27/83	000027	
49093			1	2920	7/29/83	N/A	
49222			1	2920	8/12/83	000027	
49318			5	2920	9/ 9/83	000012	
						000019	
						000023	
						000024	
						000026	
						000027	
						000028	
						000029	
49184			1	2920	8/26/83	000019	
						000027	
						000029	
49184P			1	2920	9/23/83	000019	
						000027	
						000029	
49304			1	2920	9/ 1/83	N/A	
49291			1	2920	9/12/83	N/A	
49288			1	2920	9/13/83	N/A	
49323			1	2920	9/13/83	N/A	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 3

MMLL

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
49187			1	2920	9/14/83	N/A	
49162			1	2920	9/14/83	N/A	
49336			1	2920	9/29/83	000025	
						000029	
						000035	
						000036	
						000038	
						000040	
						000041	
						000045	
49041			1	2920	8/17/83	N/A	
49303			1	2920	8/24/83	N/A	
49235			1	2920	8/24/83	N/A	
49235N			1	2920	2/17/84	N/A	
49238			1	2920	7/20/83	000041	
49189			1	2920	7/20/83	000042	
49279			1	2920	7/19/83	N/A	
49280			1	2920	8/10/83	N/A	
49305			1	2920	8/29/83	N/A	
49331			1	2920	9/21/83	N/A	
49197			1	2920	9/28/83	N/A	
49312			1	2920	9/30/83	N/A	
49312N			1	2920	12/ 9/83	N/A	
49296			1	2920	10/10/83	000049	
49365			1	2920	11/11/83	N/A	
49362			1	2920	11/11/83	000049	
49365			1	2920	11/15/83	N/A	
49365			1	2920	11/28/83	N/A	
49375			1	2920	11/28/83	N/A	
49370			1	2920	12/16/83	N/A	
49397			1	2920	11/29/83	N/A	
49385			1	2920	11/29/83	N/A	
49376			1	2920	11/30/83	000049	
49302			1	2920	12/ 2/83	N/A	
49406			1	2920	12/ 8/83	N/A	
49394			1	2920	12/15/83	N/A	
49393			1	2920	12/15/83	N/A	
49402			1	2920	12/15/83	N/A	
49398			1	2920	12/16/83	N/A	
49370			1	2920	11/28/83	000049	
						THRU	
						000051	
						000053	
49369			1	2920	12/20/83	000058	
49355			1	2920	12/23/83	000067	
49423			5	2920	12/30/83	000109	
						000119	
						000121	
						THRU	
						000125	
						000127	
						THRU	
						000129	
						000137	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 4

MMLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49423A		68296	5	2920	1/21/84	000142 000109 000119 000121 THRU 000125 000127 THRU 000129 000137 000142	
49128			1	2920	1/13/84	N/A	
49431			1	2920	1/13/84	N/A	
49444		68294	5	2920	1/16/84	000072 000085 000087 000101 000102 000111 000124 000125 000127 000128 000129 000171 000172 000174 000176 000177 000180	
49439			1	2920	1/16/84	000072 000085 000087 000101 000102 000111 000119 THRU 000125 000127 000128 000129 000142 000143 000147 000148 000150	
49435		68270	5	2920	1/26/84	000072 000085 THRU 000087 000100 THRU 000102	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 5

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MUD FEAT	INCRP DATE	SNBI	ECN
						000111	
						000112	
						000125	
						000126	
						000127	
						000142	
						000143	
						000147	
						000148	
						000150	
49416			1	2920	1/16/84	000072	
						000085	
						000087	
						000101	
						000102	
						000111	
						000112	
						000119	
						000122	
						000124	
						000125	
						000127	
						000128	
						000129	
						000151	
						000153	
						000154	
						000155	
						000160	
49428			1	2920	1/21/84	N/A	
49398			1	2920	1/21/84	N/A	
49341			1	2920	1/21/84	N/A	
49342			1	2920	1/21/84	N/A	
49343			1	2920	1/21/84	N/A	
49344			1	2920	1/21/84	N/A	
49345			1	2920	1/21/84	N/A	
49346			1	2920	1/21/84	N/A	
49347			1	2920	1/21/84	N/A	
49348			1	2920	1/21/84	N/A	
49477		68352	5	2920	2/ 6/84	000125	
						000171	
						000174	
						000176	
						000188	
						000190	
						000192	
						THRU	
						000194	
						000196	
49474			1	2920	2/ 6/84	000125	
						000190	
						000197	
						THRU	
						000212	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						000214	
49387			1	2920	2/ 3/84	N/A	
49460			1	2920	2/ 3/84	N/A	
49388			1	2920	2/ 3/84	N/A	
49450			1	2920	2/ 3/84	N/A	
49447			1	2920	2/ 3/84	N/A	
49415			1	2920	2/ 3/84	N/A	
49446			1	2920	2/ 3/84	N/A	
49420		68224	2	2920	2/10/84	N/A	
49443			1	2920	2/10/84	N/A	
49466			1	2920	2/10/84	N/A	
49419			1	2920	2/17/84	N/A	
49432			1	2920	2/17/84	N/A	
49461			1	2920	2/17/84	N/A	
49396			1	2920	2/17/84	N/A	
49250		68360	5	2920	2/29/84	000234	
49250A		68360	5	2920	2/29/84	000234	
49545		68416	5	2920	3/25/84	000060	
49489		68376	5	2920	2/29/84	000218	
49569		68449	5	2920	3/ 1/84	000237	
49510		68437	5	2920	4/10/84	000237	
49552		68427	5	2920	4/10/84	000237	
49516		68425	5	2920	4/10/84	000237	
49516		68425	5	2920	4/10/84	000237	
49504		68441	5	2920	4/10/84	000237	
49563		68451	5	2920	4/10/84	000237	
49576		68455	5	2920	4/13/84	000237	
49582		68489	5	2920	5/15/84	000069	
49508			1	2920	5/31/84	N/A	
49598		68497	5	2920	5/22/84	001005	
49499		68338	5	2920	5/22/84	001156	
						THRU	
						001162	
49639			1	2920	6/ 1/84	001176	
49599			1	2920	6/ 1/84	001176	
49617			1	2920	6/ 1/84	N/A	
49617M			1	2920	6/ 1/84	N/A	
49389		68340	5	2920	5/22/84	001156	
49626		68517	5	2920	6/ 4/84	001206	
						THRU	
						001220	
						001227	
						THRU	
						001286	
						001340	
						THRU	
						001345	
						001228	
						THRU	
						001230	
49611		68514	5	2920	6/ 4/84	001206	
49630			1	2920	6/11/84	N/A	
49649		68538	5	2920	7/10/84	001674	
		68548					

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 7

1MLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49648			1	2920	7/20/84	N/A	
49644			1	2920	7/23/84	N/A	
49613			1	2920	7/30/84	N/A	
49709		68576	5	2920	7/31/84	001674 THRU 001220 001277 THRU 001286 001340 THRU 001345 001228 THRU 001230 THRU 001162 000108 000195 000121 000317 000122 000186 000066 000118 000128 000129 000289 000317 000280 000235 000093 000123 000299 000081 000294 000245 000282 000279 000289 001001 001007 001009	
49624			1	2920	7/10/84	001475	
49692			1	2920	8/17/84	N/A	
49692N			1	2920	8/17/84	N/A	
49640			1	2920	8/24/84	N/A	
49640N			1	2920	8/24/84	N/A	
49664		68540	5	2920	8/24/84	001320 001337 001342 001398 001402 001408	



MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 8

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						001409	
						001411	
						001414	
						THRU	
						001427	
						001434	
						THRU	
						001444	
						001446	
						THRU	
						001448	
						001450	
						THRU	
						001458	
						001460	
						THRU	
						001463	
						001465	
						001467	
						THRU	
						001493	
						001495	
						THRU	
						001503	
						001545	
						THRU	
						001555	
						001613	
						THRU	
						001624	
						001676	
49705		68599	5	2920	8/21/84	001266	
						001320	
						001337	
						001398	
						001402	
						001408	
						001409	
						001411	
						001414	
						THRU	
						001427	
						001434	
						THRU	
						001444	
						001446	
						THRU	
						001448	
						001450	
						THRU	
						001458	
						001460	
						THRU	
						001463	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 9

IMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCURP DATE	SNBI	ECN
						001465	
						001467	
						THRU	
						001493	
						001495	
49724		68595	5	2920	8/21/84	001266	
						001320	
						001398	
						001402	
						001408	
						001411	
						001414	
						THRU	
						001427	
						001434	
						THRU	
						001444	
						001446	
						THRU	
						001448	
						001450	
						THRU	
						001458	
						001460	
						THRU	
						001463	
						001465	
						001467	
						THRU	
						001493	
						001495	
49599			1	2920	8/21/84	N/A	
49665			1	2920	8/21/84	N/A	
49666			1	2920	8/21/84	N/A	
49612			1	2920	8/21/84	N/A	
49403			1	2920	8/21/84	N/A	
49684			1	2920	8/21/84	N/A	
49755		68624	5	2920	9/18/84	001495	
		68626					
49556			1	2920	7/25/84	001545	
						001547	
						001548	
						001557	
						001559	
						001560	
						001563	
49556N			1	2920	7/25/84	N/A	
49556N			1	2920	7/25/84	N/A	
49501			1	2920	6/ 6/84	000380	
						001303	
						001304	
						001320	
						001337	
						001342	



MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 11

MMLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						001526	
						001528	
						001529	
						001530	
						001537	
						THRU	
						001540	
						001542	
						001543	
49427			1	2920	8/20/84	001698	
49618			1	2920	8/20/84	001679	
						001713	
						001718	
						001737	
49631			1	2920	8/20/84	001679	
						001713	
						001718	
						001737	
49763			1	2920	8/21/84	001819	
49534			1	2920	8/23/84	N/A	
49640			1	2920	8/26/84	N/A	
49640N			1	2920	8/26/84	N/A	
49673		68584	5	2920	9/ 7/84	001838	
						001840	
						001898	
						THRU	
						001901	
						001905	
49741			1	2920	9/ 7/84	001838	
						001840	
						001898	
						THRU	
						001901	
						001905	
49681			1	2920	8/20/84	001899	
						001901	
49536			1	2920	8/20/84	001963	
49691			1	2920	8/20/84	N/A	
49762			1	2920	9/17/84	N/A	
49677			1	2920	9/17/84	N/A	
49491			1	2920	9/20/84	001838	
						001839	
						001840	
						001842	
						001844	
						001846	
						001848	
						001885	
						THRU	
						001888	
						001891	
						001893	
						THRU	
						001899	

MASTER MACHINE LEVEL LISTING  
 D.G. AVALANCHE

EC NO.	EIR NO.	F/B NO.	S T	MUD FEAT	INCRP DATE	SNBI	ECN
						001902	
						THRU	
						001905	
						001909	
49770			1	2920	9/19/84	001921	
						001923	
						001941	
						001949	
49790			1	2920	9/21/84	N/A	
49788			1	2920	9/24/84	N/A	
49791			1	2920	9/28/84	N/A	
49793			1	2920	9/28/84	N/A	
49612P			1	2920	9/28/84	N/A	
49195			1	2920	10/ 6/84	001985	
						002020	
						002026	
						002030	
						002037	
49745			1	2920	10/ 6/84	001985	
						002020	
						002026	
						002030	
						002031	
						002037	
49531			1	2920	10/ 6/84	N/A	
49787			1	2920	10/ 8/84	N/A	
49552			1	2920	10/ 9/84	N/A	
49669			1	2920	10/ 9/84	N/A	
49782			1	2920	10/17/84	N/A	
49800			1	2920	10/17/84	N/A	
49794			1	2920	10/17/84	N/A	
49795			1	2920	10/17/84	N/A	
49803			1	2920	10/17/84	N/A	
49679			1	2920	10/17/84	N/A	
43363			1	2920	10/19/84	N/A	
49765			1	2920	10/19/84	N/A	
49783			1	2920	10/22/84	N/A	
49778			1	2920	10/18/84	N/A	
49818		68672	5	2920	10/23/84	001985	
						THRU	
						001989	
						001992	
						THRU	
						001999	
						002002	
						002003	
						002005	
						THRU	
						002023	
						002030	
						002031	
						002039	
49645			1	2920	10/25/84	N/A	
49820			1	2920	10/29/84	N/A	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 13

IMLL

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49702			1	2920	10/30/84	N/A	
49704			1	2920	10/30/84	N/A	
49717			1	2920	11/ 5/84	N/A	
49817			1	2920	11/ 5/84	N/A	
49675			1	2920	11/ 8/84	002000	
49463			1	2920	11/ 8/84	002128	
						002134	
						THRU	
						002147	
						002150	
						002152	
						THRU	
						002157	
						002168	
						THRU	
						002195	
						002197	
49689			1	2920	11/13/84	002116	
						002130	
						THRU	
						002142	
						002148	
						002149	
						002159	
						THRU	
						002167	
						002196	
						002256	
						002259	
49612			1	2920	11/13/84	002117	
						THRU	
						002120	
						002122	
						002123	
						002134	
						002158	
49815			1	2920	11/19/84	N/A	
49816			1	2920	11/19/84	N/A	
49811			1	2920	11/19/84	N/A	
49670			1	2920	11/19/84	N/A	
49663			1	2920	11/30/84	002224	
49614			1	2920	11/30/84	002000	
						THRU	
						002021	
						002023	
						002053	
						THRU	
						002062	
						002073	
						THRU	
						002086	
						002158	
						THRU	
						002164	

MMLL

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 14

EC NU.	EIR NU.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						002166	
						002167	
						002171	
						002172	
						002208	
						THRU	
						002219	
						002239	
						THRU	
						002247	
						002270	
49659			1	2920	11/30/84	002000	
						THRU	
						002021	
						002023	
						002053	
						THRU	
						002062	
						002073	
						THRU	
						002086	
						002158	
						THRU	
						002164	
						002166	
						002167	
						002171	
						002172	
						002208	
						THRU	
						002219	
						002239	
						THRU	
						002247	
						002270	
49590			1	2920	11/30/84	N/A	
49567			1	2920	11/30/84	002000	
						THRU	
						002021	
						002023	
						002053	
						THRU	
						002063	
						002073	
						THRU	
						002086	
						002158	
						THRU	
						002164	
						002166	
						002167	
						002171	
						002172	
						002208	

MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

MMLL

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						THRU	
						002219	
						002239	
						THRU	
						002247	
						002270	
49740			1	2920	11/30/84	002000	
						THRU	
						002021	
						002023	
						002053	
						THRU	
						002062	
						002073	
						THRU	
						002086	
						002158	
						THRU	
						002164	
						002166	
						002167	
						002171	
						002172	
						002208	
						THRU	
						002219	
						002239	
						THRU	
						002247	
						002270	
49749			1	2920	12/ 5/84	N/A	
49520			1	2920	12/10/84	N/A	
49520N			1	2920	12/10/84	N/A	
49790			1	2920	12/10/84	002369	
49452			1	2920	12/13/84	002239	
						THRU	
						002247	
						002340	
						THRU	
						002354	
						002411	
						002412	
						002506	
						002520	
49642			1	2920	12/13/84	002239	
						THRU	
						002247	
						002340	
						THRU	
						002354	
						002411	
						002412	
						002506	
						002520	



EC NO.	EIR NO.	F/B. NO.	S T	MUD FEAT	INCRP DATE	SNBI	ECN
49642X			1	2920	12/13/84	002239 THRU 002247 002340 THRU 002354 002411 002412 002506 002520	
49687			1	2920	12/13/84	002239 THRU 002247 002340 THRU 002354 002411 002412 002506 002520	
49687N			1	2920	12/13/84	N/A	
49830			1	2920	2/ 1/85	002700	
49841		68741	4	2920	12/17/84	002411 002412 002458 002459 002465	
49882		68777	5	2920	2/21/85	002459 002531	
49882N			5	2920	2/21/84	N/A	
49749		68664	5	2920	12/17/84	002538	
49553			1	2920	12/21/84	N/A	
49863			1	2920	12/21/84	N/A	
49847			1	2920	12/21/84	N/A	
49845			1	2920	12/21/84	N/A	
49676			1	2920	1/ 5/85	N/A	
49699			1	2920	1/ 5/85	N/A	
49699P			1	2920	1/ 5/85	N/A	
49544			1	2920	1/ 5/85	N/A	
49806			1	2920	1/18/85	002338 THRU 002354 002390 002391 002439 002440 002482 002483 002484 002556	
49799			1	2920	1/24/85	002588	
49799M			1	2920	1/24/85	002588	
49761			1	2920	1/24/85	002588	
49642			1	2920	1/24/85	002588	

EC NU.	EIR NU.	F/B NU.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
49796			1	2920	1/24/85	002588	
49792			1	2920	2/11/85	N/A	
49753			1	2920	2/27/85	002683	
49667			1	2920	2/27/85	002684	
49696			1	2920	2/11/85	002621	
						002705	
						THRU	
						002771	
						002773	
49696P			1	2920	2/11/85	002621	
						002705	
49856			1	2920	2/11/85	N/A	
49862			1	2920	2/11/85	N/A	
49861			1	2920	2/14/85	N/A	
49814			1	2920	2/27/85	N/A	
49753			1	2920	2/27/85	N/A	
49652			1	2920	2/27/85	N/A	
49877			1	2920	3/ 4/85	N/A	
49880			1	2920	3/ 4/85	N/A	
49866			1	2920	3/ 7/85	N/A	
49886			1	2920	3/ 7/85	N/A	
49408			1	2920	3/14/85	N/A	
49836			1	2920	3/14/85	N/A	
49836M			1	2920	5/24/85	N/A	
49836N			1	2920	3/14/85	N/A	
49895			1	2920	3/14/85	N/A	
49775			1	2920	3/14/85	002757	
						THRU	
						002759	
						002761	
						THRU	
						002764	
						002766	
						THRU	
						002797	
						002799	
						THRU	
						002814	
						002816	
49775N			1	2920	3/14/85	N/A	
49896			1	2920	3/21/85	N/A	
49893			1	2920	3/21/85	N/A	
43405			1	2920	3/28/85	N/A	
57232			1	2920	3/28/85	N/A	
49906			1	2920	3/28/85	N/A	
49720			1	2920	4/ 1/85	N/A	
49814			1	2920	4/ 1/85	N/A	
49882			1	2920	4/ 1/85	N/A	
49882N			1	2920	4/ 1/85	N/A	
49848			1	2920	4/ 1/85	N/A	
49874			1	2920	4/ 1/85	N/A	
49813			1	2920	4/ 1/85	002436	
						002639	
						002743	



MASTER MACHINE LEVEL LISTING  
D.G. AVALANCHE

5/30/85  
PAGE: 19

MMLL

EC NO.	EIR NU.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
						003142	
						003147	
						THRU	
						003158	
						003161	
						003298	
						003312	
						003314	
						003324	
						003337	
						THRU	
						003348	
						003353	
						THRU	
						003367	
						003371	
						THRU	
						003410	
						003414	
43384			1	2920	5/24/85	002976	
						002977	
						002979	
						THRU	
						002982	
						003024	
						003025	
						003071	
						003072	
						003110	
						THRU	
						003116	
						003133	
						THRU	
						003142	
						003147	
						THRU	
						003158	
						003161	
						003198	
						THRU	
						003198	
						003312	
						THRU	
						003314	
						003324	
						003337	
						THRU	
						003348	
						003353	
						THRU	
						003356	
						003360	
						THRU	
						003362	

EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCRP DATE	SNBI	ECN
						003378	
						THRU	
						003387	
						003405	
						003416	
43384X			1	2920	5/24/85	N/A	
49662			1	2920	5/15/85	002937	
						003015	
						THRU	
						003018	
						003056	
						THRU	
						003065	
						003101	
						THRU	
						003115	
						003133	
						THRU	
						003142	
						003149	
						THRU	
						003158	
						003161	
						THRU	
						003165	
						003279	
						THRU	
						003298	
						003344	
						THRU	
						003348	
						003353	
						THRU	
						003356	
						003398	
						003399	
						003401	
						003403	
						THRU	
						003407	
						003431	
49662N			1	2920	2/27/85	N/A	
49662P			1	2920	3/14/85	N/A	
49553			1	2920	5/24/85	N/A	
49553X			1	2920	5/24/85	N/A	
49455			1	2920	5/24/85	N/A	
49929			1	2920	5/24/85	N/A	