AMPEX

DM940/DM980

DISK STORAGE DRIVE

MAINTENANCE DIAGRAMS

3307029-01

Ampex Memory Products



REV. G

(Supersedes
Revision F, dated
October 1978)

DM940/DM980

DISK STORAGE DRIVE

MAINTENANCE DIAGRAMS

3307029-01

JANUARY 1979

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CHANGE RECORD

CHANGE	DATE	DESCRIPTION
Rev. A	9/76	Manual revised to incorporate source/destination information and current engineering changes on all schematic diagrams.
Rev. B	4/77	Manual revised to incorporate latest engineering changes. Schematic diagram 3306230-01 and assembly drawing 3306233-01 for SEPDT board added to manual.
Rev. C	10/77	Manual revised to incorporate latest engineering changes. Back panel mother board assembly drawing (P/N 3306173-01) for RPQ43 added to manual.
Rev. D	3/78	Manual revised to incorporate current engineering changes.
Rev. E	8/78	Manual revised to incorporate current engineering changes.
Rev. F	10/78	Manual revised to incorporate current engineering changes.
Rev. G	1/79	Removed obsolete drawings and incorporated current engineering changes.

LIST OF EFFECTIVE PAGES

Cover . . . . . Jan 1979
A and B . . . . . Jan 1979
i . . . . . Oct 1977
ii Blank . . . . . Original
iii and iv . . . . . Jan 1979
1-1 . . . . . Apr 1977
1-2 thru 1-17 . . . . . Jan 1979
1-18 Blank . . . . . Jan 1979
2-1 (Schematic Diagrams) . . . . . Jan 1979
3-1 (Assembly Drawings) . . . . . Jan 1979
4-1 (Wire List) . . . . . Mar 1978
5-1 (Signal List) . . . . . Original

NOTE

Schematic diagrams, assembly drawings, wire list, and signal list are not assigned page numbers. They are identified in alpha-numeric sequence by their circuit board locations (e.g., A01, A02, etc.) or in numeric sequence by their assigned part numbers.

Updated drawings are not assigned change dates, but are identified by the engineering change number shown in the revision block on sheet 1 of the applicable drawing.

INTRODUCTION

This manual provides maintenance personnel with a complete set of maintenance diagrams for the Ampex DM940 and DM980 Disk Drives. Included are schematic diagrams, printed circuit board assembly drawings, interconnecting cable harness diagrams, wire lists, and computerized signal lists.

The diagrams in this manual are supported by information in the DM940/DM980 Operation and Maintenance manual, part number 3306685-01. The Operation and Maintenance manual provides a physical and functional description of the drive, installation and operating instructions, theory of operation, maintenance instructions, and an illustrated parts list.

Together, the Operation and Maintenance manual and the Maintenance Diagrams manual comprise the total documentation necessary to understand and service DM940 and DM980 Disk Drives.

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Terminator (Daisy Chain)	3305667-01
POAMP (DM940) (A05)	3305683-01
FURCF (Power Supply)	3305733-01
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Harness Assembly, Pack Motor	3306667-01
Harness Assembly, Brush Motor	3306668-01
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Harness Assembly, AC Power (60 Hz)	3309035-01
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GENERAL INFORMATION

This section of the manual contains configuration charts showing the appropriate card chassis locations for all printed circuit boards used in both the DM940 and DM980 Disk Drives. In addition, this section defines the logic symbology used on the schematic diagrams, and gives specifications for all integrated circuits used in the disk drives and related Ampex disk products.

Documentation for all available options and for RPQ43 power sequencing is also provided.

3306517-01

DM940 CONFIGURATION

Pos.	Name	Schematic Suffix	PCB Assy P/N
A01	RCCDH	-01	3307103-01
A02	PCIST	-01	3307123-01
A03	SRCON	-01	3305513-01
A04	SRAMP	-01	3305613-01
A05	POAMP	-01	3305683-01
A07	SEPDT	-01	3306233-01
A08	DLOCP	-01	3305573-01
A09	BKMBD (Logic Chassis)	-01	3307153-01
DECK PLATE	SERAM	-01	3305563-01
DECK PLATE	RDAWR	-01	3305523-01
POWER SUPPLY	REGPS	-01	3305743-01
POWER SUPPLY	FURCF	-01	3305733-01
POWER SUPPLY	SDRVR	-01	3305753-01
POWER SUPPLY	SMBRD	-01	3305833-01
POWER SUPPLY	PSMBD	-01	3305773-01

REFERENCE DRAWINGS

POWER DISTRIBUTION (115V, 60HZ)	3306419-01
POWER DISTRIBUTION (240V, 50HZ)	3306419-02
POWER DISTRIBUTION (230V, 60HZ)	3306419-03
POWER DISTRIBUTION (220V, 50HZ)	3306419-04
TERMINATOR ASSY	3305667-01
POWER DISTRIBUTION (100V, 60HZ)	3306419-09
POWER DISTRIBUTION (100V, 50HZ)	3306419-10

NOTES:

1. SCHEMATIC SUFFIX REFERS TO THE DASH NO. OF THE SCHEMATIC PART NO. USED FOR THAT ASSEMBLY PLUGGED IN THAT POSITION.
2. THE SEVEN DIGIT PART NO. FOR A SCHEMATIC IS THE SAME AS ITS RESPECTIVE PCB ASSEMBLY EXCEPT THE LAST DIGIT IS 0 INSTEAD OF 3.

NEXT ASSY	USED ON
APPLICATION	

NOTICE

THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISH.
TOL ± | 2 PL | 3 PL | ANLR
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTERPRET DRAWING PER ANSI Y14.5

MATERIAL:
FINISH:

	SIGNATURE	DATE
DRAWN BY	REMY	11-4-75
CHK BY		
DFTG APVD	H. A. Frances	11/6/75
ENGRG APVD		11-6-75
AUTH BY		

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

CONFIGURATION CHART,
DM 940 (SINGLE DENSITY)

SIZE	CODE IDENT NO.	
B	09150	3306517-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UC-3502-09 (REV NOV 72) PRINTED IN U.S.A.

3307716-01

DM980 CONFIGURATION

Pos.	Name	Schematic Suffix	PCB Assy P/N
A01	RCCDH	-01	3307103-01
A02	PCIST	-01	3307123-01
A03	SRCON	-01	3306013-01
A04	SRAMP	-01	3306003-01
A05	POAMP	-01	3305913-01
A07	SEPDT	-01	3306233-01
A08	DLOCP	-01	3305573-01
DECK PLATE	SERAM	-01	3305563-01
DECK PLATE	RDAWR	-01	3305763-01
POWER SUPPLY	REGPS	-01	3305743-01
POWER SUPPLY	FURCF	-01	3305733-01
POWER SUPPLY	SDRVR	-01	3305753-01
POWER SUPPLY	SMBRD	-01	3305833-01
POWER SUPPLY	PSMBD	-01	3305773-01

REFERENCE DRAWINGS

POWER DISTRIBUTION (115V, 60HZ)	3306419-01
POWER DISTRIBUTION (240V, 50HZ)	3306419-02
POWER DISTRIBUTION (230V, 60HZ)	3306419-03
POWER DISTRIBUTION (220V, 50HZ)	3306419-04
TERMINATOR ASSY	3305667-01
POWER DISTRIBUTION (100V, 60HZ)	3306419-09
POWER DISTRIBUTION (100V, 50HZ)	3306419-10

NOTES:

1. SCHEMATIC SUFFIX REFERS TO THE DASH NO. OF THE SCHEMATIC PART NO. USED FOR THAT ASSEMBLY PLUGGED IN THAT POSITION.

   THE SEVEN DIGIT PART NO. FOR A SCHEMATIC IS THE SAME AS ITS RESPECTIVE PCB ASSEMBLY EXCEPT THE LAST DIGIT IS 0 INSTEAD OF 3.

NEXT ASSY | USED ON
APPLICATION

NOTICE
THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISH.
TOL ± | 2 PL | 3 PL | ANLR
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTERPRET DRAWING PER ANSI Y14.5
MATERIAL:
FINISH:

	SIGNATURE	DATE
DRAWN BY	REMY S.	1/10/76
CHK BY		
DFTG APVD		
ENGRG APVD	D. Young	2/10/76
AUTH BY		

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

CONFIGURATION CHART,
DM 980 (DUAL DENSITY)

SIZE B | CODE IDENT NO. 09150 | 3307716-01
SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UC-3502-08 (REV NOV 72) PRINTED IN U.S.A.

LOGIC SYMBOLOGY

The logic symbols used in this manual are those specified in MIL-STD-806B. Standard definitions are used for symbols and active line levels on inputs and outputs. A small circle on the input of a logic element indicates that a relative low level is needed to activate the element. The absence of a circle indicates that a relative high level is needed to activate the element. Output levels are indicated in the same manner.

The actual voltage levels used in the disk drive are:

+2.4 V to +5.0 V = logic 1 (one) (high) (H)

0 V to +0.4 V = logic 0 (zero) (low) (L)

Emitter Coupled Logic (ECL) 10,000 series integrated circuit chips are used in the read/write circuits of the drive. Voltage levels for the ECL logic are:

−0.9 V = logic 1 (one) (high) (H)

−1.75 V = logic 0 (zero) (low) (L)

Logic symbols with input and output definitions are shown in figure 1-1 (three sheets).

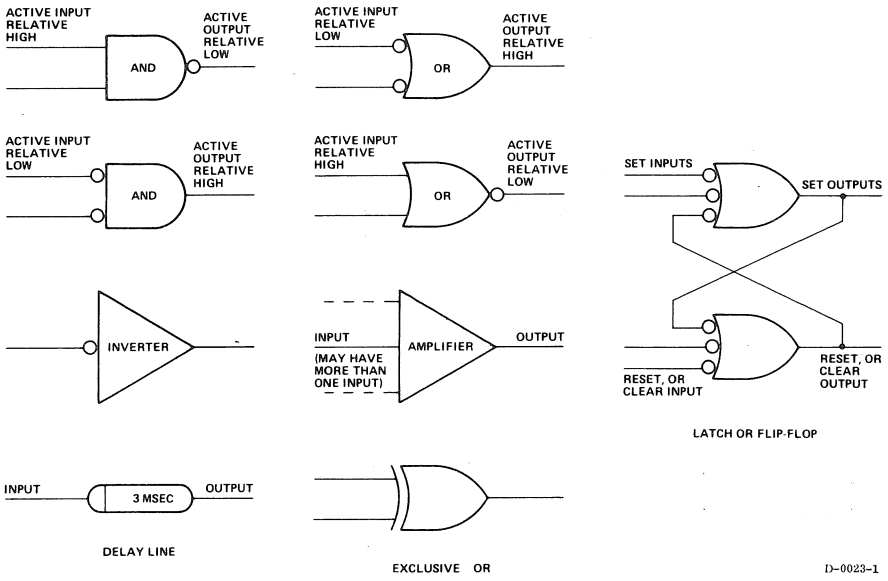
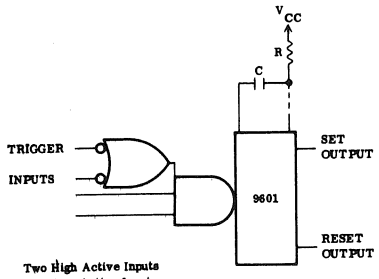
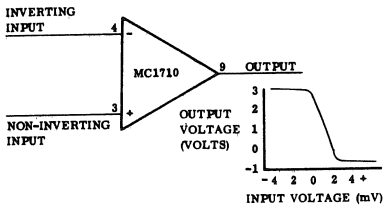


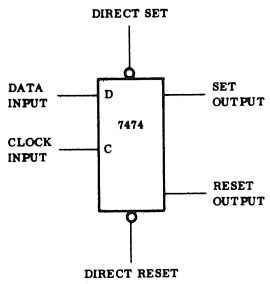
FIGURE 1-1. LOGIC SYMBOLS (SHEET 1 OF 3)

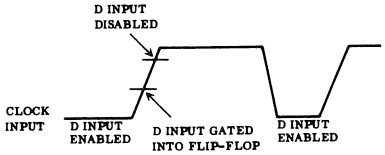


MONOSTABLE MULTIVIBRATOR (ONE SHOT)

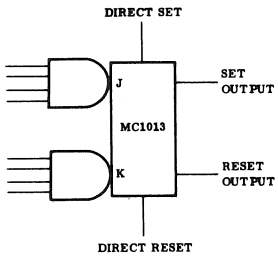


DIFFERENTIAL COMPARATOR

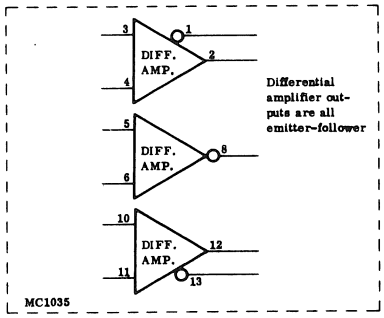




D-TYPE LEADING EDGE-TRIGGERED FLIP-FLOP

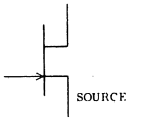


HIGH SPEED AC COUPLED JK FLIP-FLOP



THREE DIFFERENTIAL AMPLIFIERS

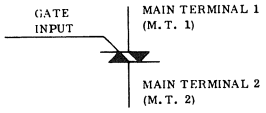
D-0023-2



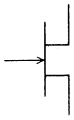
NON-SYMMETRICAL F.E.T.



LIGHT EMITTING DIODE (L.E.D.)



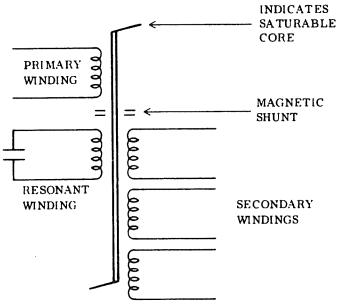
TRIAC

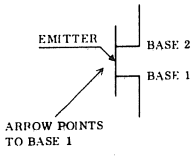


SYMMETRICAL F.E.T. (FIELD EFFECT TRANSISTOR)

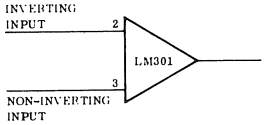


PHOTOSENSITIVE CELL





UNIJUNCTION TRANSISTOR



OPERATIONAL AMPLIFIER

FERRORESONANT POWER TRANSFORMER

D-0023-3

FIGURE 1-1. LOGIC SYMBOLS (SHEET 2 OF 3)

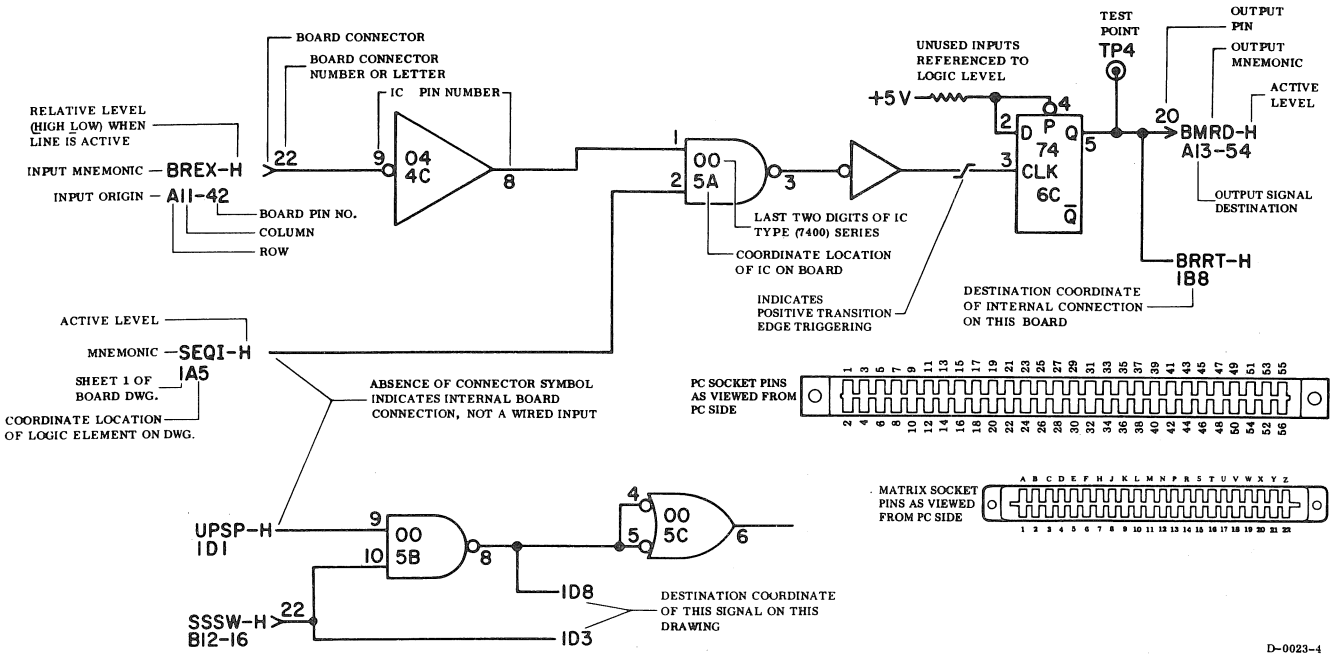
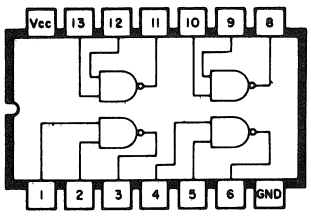


FIGURE 1-1. LOGIC SYMBOLS (SHEET 3 OF 3)

INTEGRATED CIRCUITS

The internal circuitry and pin placement of the integrated circuits (IC's) used in the Ampex Disk Drives are shown in figure 1-2 (11 sheets). The IC's are listed numerically by manufacturer's part number. An Ampex part number is also provided for each IC.

QUADRUPLE 2-INPUT NAND



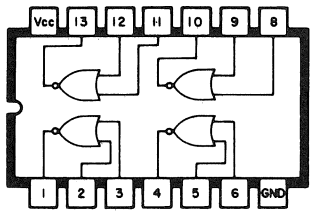
GATES

SN7400N		586-075	S
SN74H00N		586-168	S
SN74S00N		586-830	S
SN74H01N	(Open collector)	586-685	
SN7403N	(Open collector)	586-581	S
SN74S03N	(Open collector)	587-017	
SN7426N		587-543	S
SN74132N	(Schmitt trigger)	587-148	S
MC846P		586-153	

BUFFERS

SN7437N		586-910	S
SN7438N	(Open collector)	586-784	

QUADRUPLE 2-INPUT NOR



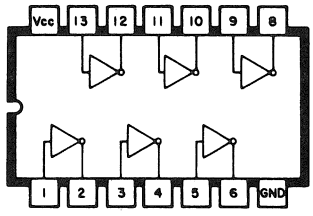
GATES

SN7402N		586-109	S
SN74S02N		587-277	

BUFFERS

SN7428N		587-212	
SN7433N	(Open collector)	587-288	S

HEX INVERTERS / HEX BUFFERS



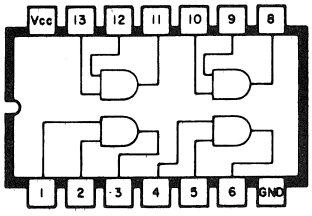
INVERTERS

SN7404N		586-326	S
SN74H04N		586-688	S
SN74S04N		586-831	S
SN7405N	(Open collector)	586-325	S
SN74H05N	(Open collector)	586-926	
SN74S05N	(Open collector)	587-153	
SN7406N	(Open collector)	586-690	S
SN7414N	(Schmitt trigger)	587-147	S
SN7416N	(Open collector)	586-752	
MC835P	(Open collector)	586-526	S
MC836P		586-152	S

BUFFERS

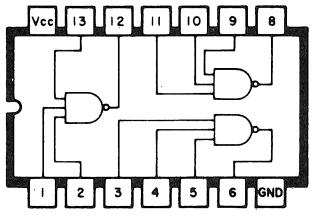
SN7407N	Open collector)	586-713	S

QUADRUPLE 2-INPUT POSITIVE AND GATE



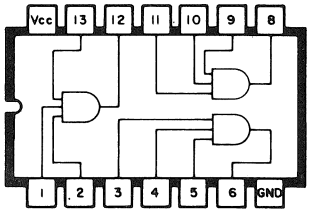
SN7408N		586-759	S
SN74S08N		587-751	
SN7409N	(Open collector)	587-249	S

TRIPLE 3-INPUT NAND GATE



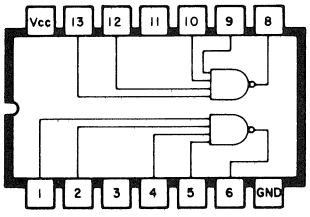
SN7410N		586-076	S
SN74H10N		586-167	S
SN74S10N		587-018	S
SN7412N	(Open collector)	586-915	S
MC862P		586-155	S

TRIPLE 3-INPUT AND GATE



SN74H11N		586-327	S
SN74S11N		587-019	S

DUAL 4-INPUT NAND



GATES

SN7413N	(Schmitt trigger)	586-871	
SN7420N		586-077	S
SN74H20N		586-738	S
SN74S20N		586-901	S
SN7422N	(Open collector)	587-214	S
SN74H22N	(Open collector)	587-029	

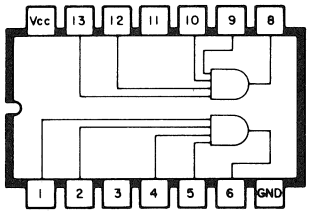
BUFFERS

SN7440N		586-079	S
SN74H40N		586-165	S
SN74S40N		586-892	S

LINE DRIVER

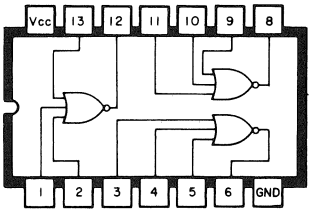
SN74S140N		587-097	S

DUAL 4-INPUT AND GATE



SN74H21N		586-183	S

TRIPLE 3-INPUT NOR GATE



SN7427N		586-917	S

FIGURE 1-2. IC SPECIFICATIONS (SHEET 1 OF 11)

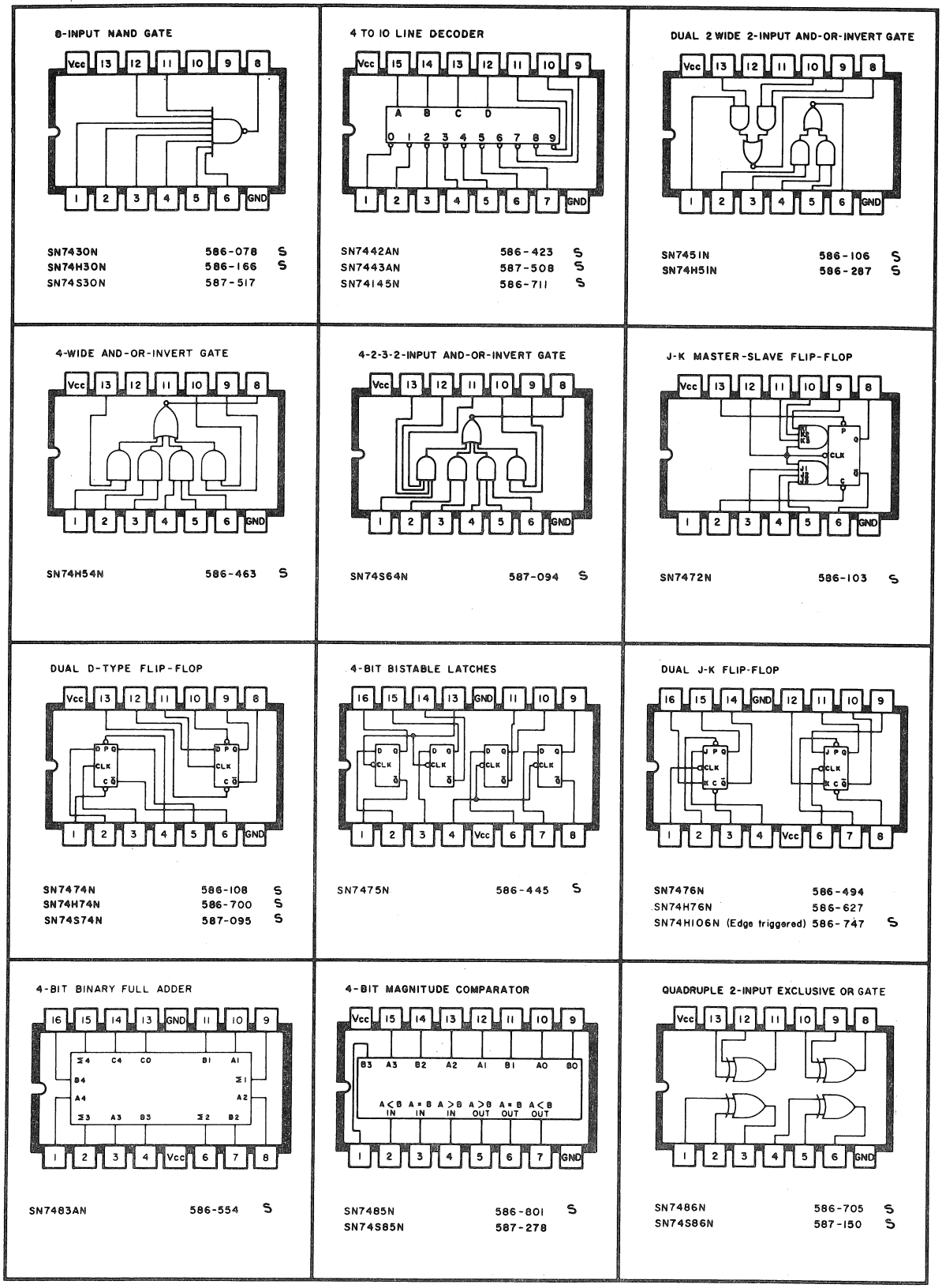
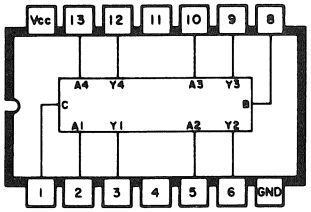


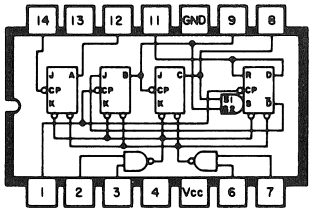
FIGURE 1-2. IC SPECIFICATIONS (SHEET 2 OF 11)

4-BIT TRUE/COMPLEMENT, ZERO/ONE ELEMENT



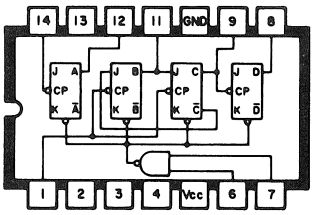
SN74H87N 586-748

DECADE COUNTER



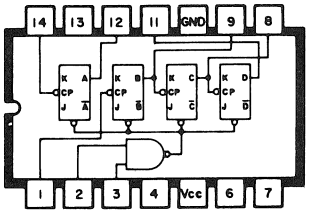
SN7490AN 586-248

DIVIDE-BY-TWELVE COUNTER



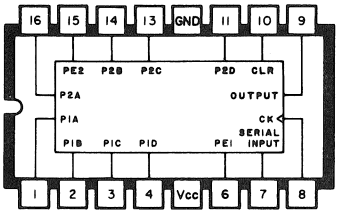
SN7492AN 587-084

4-BIT BINARY COUNTER



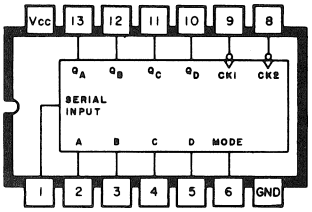
SN7493AN 586-283

4-BIT SHIFT REGISTER



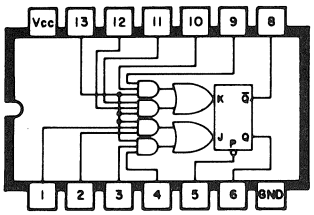
SN7494N 586-736

4-BIT PARALLEL-ACCESS SHIFT REGISTER



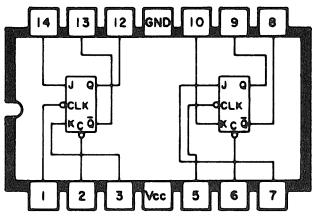
SN7495AN 586-497

J-K EDGE-TRIGGERED FLIP-FLOP



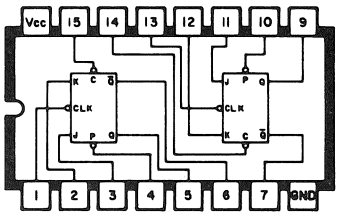
SN74H101N 587-149

DUAL J-K EDGE-TRIGGERED FLIP-FLOP



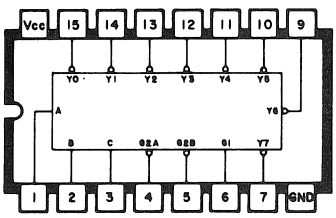
SN74H103N 587-087

DUAL J-K EDGE-TRIGGERED FLIP-FLOP



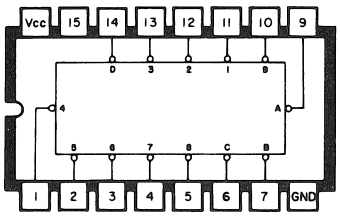
SN74S112N 586-978

3 TO 8 LINE DECODER



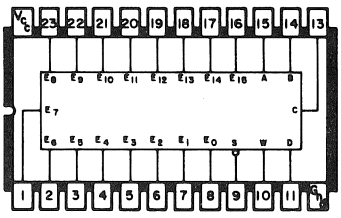
SN74S138N 587-151

10 TO 4 LINE PRIORITY ENCODER



SN74147N 587-413

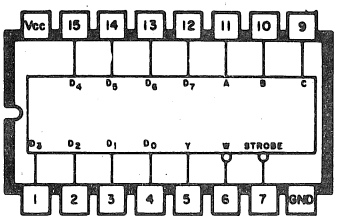
16-BIT DATA SELECTOR/MULTIPLEXER



SN74150N 586-735

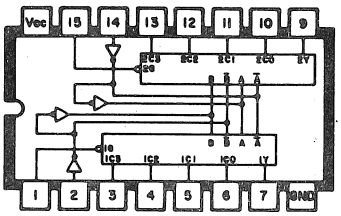
FIGURE 1-2. IC SPECIFICATIONS (SHEET 3 OF 11)

8-BIT DATA SELECTOR / MULTIPLEXER



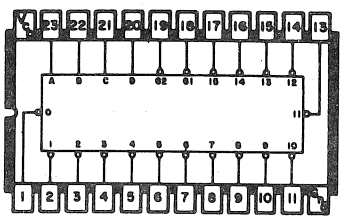
SN74151AN 586-703 S
SN74S151N 587-426

DUAL 4 TO 1 MULTIPLEXER



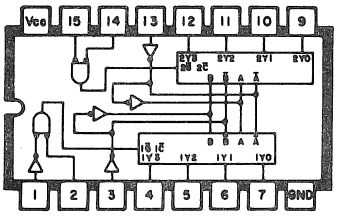
SN74153N 586-948 S
SN74S153N 587-096 S

4 TO 16 LINE DECODER



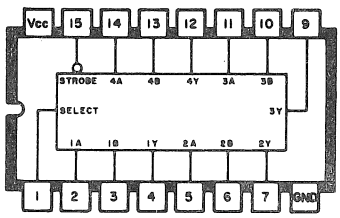
SN74154N 586-912 S

DUAL 2 TO 4 LINE DECODER / DEMULTIPLEXER



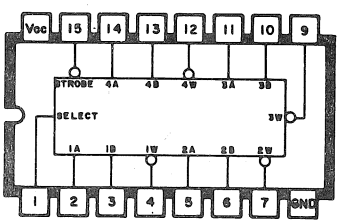
SN74155N 586-899 S
SN74156N 586-900

QUADRUPLE 2-LINE-TO-1-LINE DATA SELECTOR / MULTIPLEXER (NONINVERTING)



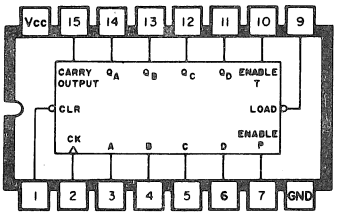
SN74157N 586-903 S
SN74S157N 587-098 S

QUADRUPLE 2-LINE-TO-1-LINE DATA SELECTOR / MULTIPLEXER (INVERTING)



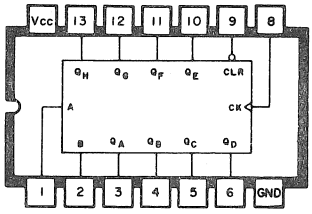
SN74S158N 587-099 S

SYNCHRONOUS 4-BIT COUNTER



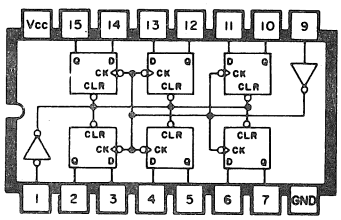
SN74161N 586-922 S
SN74162N 587-260
SN74163N 586-923

8-BIT SHIFT REGISTER



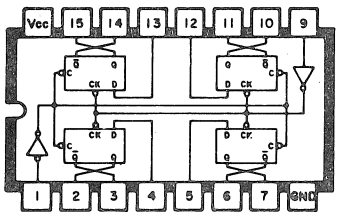
SN74164N 586-450 S

HEX D-TYPE FLIP-FLOP



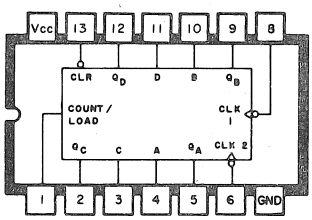
SN74174N 586-924 S
SN74S174N 587-158 S

QUADRUPLE D-TYPE FLIP-FLOP



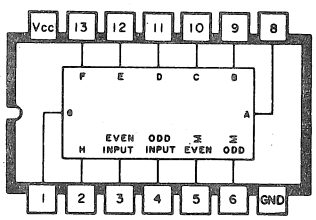
SN74175N 586-925 S
SN74S175N 587-152 S

PRESETTABLE DECADE AND BINARY COUNTER / LATCHES



SN74177N (35-MHz) 587-668 S
SN74196N (50-MHz) 587-159
SN74197N (50-MHz) 586-870

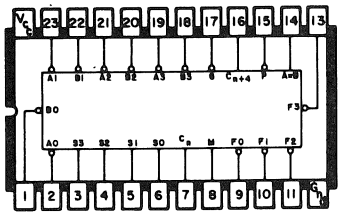
9-BIT ODD / EVEN PARITY GENERATOR / CHECKER



SN74180N 586-746 S

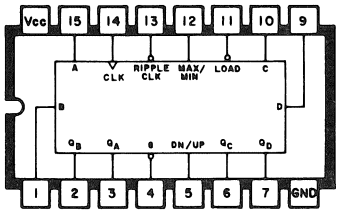
FIGURE 1-2. IC SPECIFICATIONS (SHEET 4 OF 11)

ARITHMETIC LOGIC UNIT



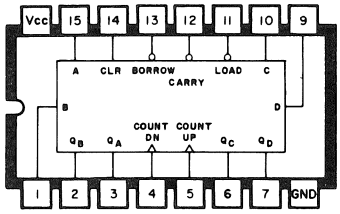
SN74181N 586-934
SN74S181N 587-100 S

SYNCHRONOUS UP/DOWN COUNTER



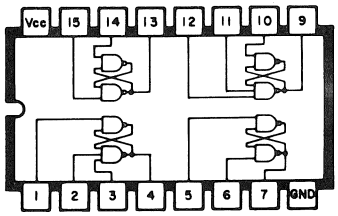
SN74190N 586-913 S
SN74191N 586-906 S

SYNCHRONOUS 4-BIT UP/DN COUNTER



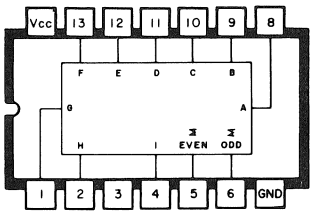
SN74192N 586-799
SN74193N 586-800 S

QUADRUPLE $\overline{S}$-$\overline{R}$ LATCHES



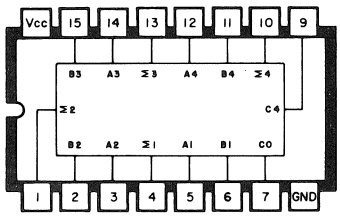
SN74279N 587-266 S

9-BIT ODD/EVEN PARITY GENERATOR/CHECKER



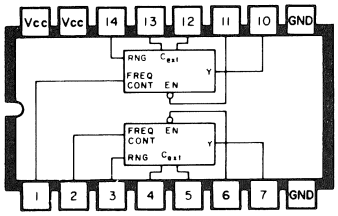
SN74S280N 587-699 S

4-BIT BINARY ADDER



SN74283N 587-495 S

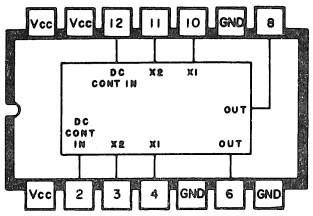
DUAL VOLTAGE CONTROLLED OSCILLATOR



SN74S124N 587-472 S

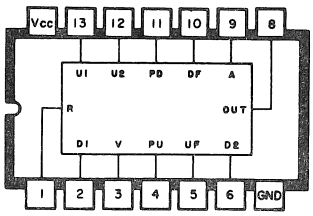
FIGURE 1-2. IC SPECIFICATIONS (SHEET 5 OF 11)

DUAL VOLTAGE CONTROLLED MULTIVIBRATOR



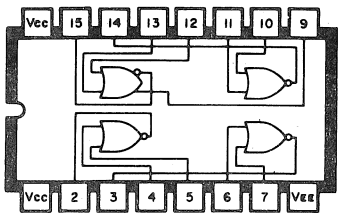
MC4024L 586-812 S
MC4024P 586-807

PHASE FREQUENCY DETECTOR



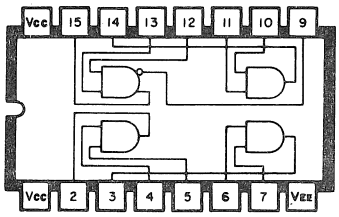
MC4044P 586-740 S

QUADRUPLE 2-INPUT NOR GATE



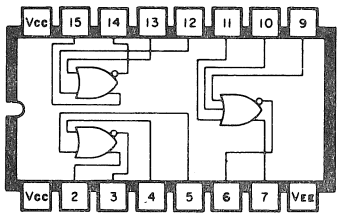
MC10102L 587-205 S

QUADRUPLE 2-INPUT AND GATE



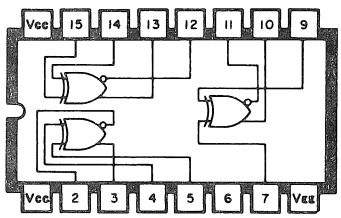
MC10104L 587-549 S

TRIPLE 2-3-2 INPUT OR/NOR GATE



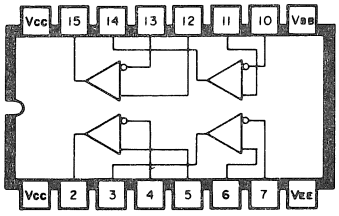
MC10105L 587-532
MC10105P 587-565 S

TRIPLE 2-INPUT OR/NOR GATE



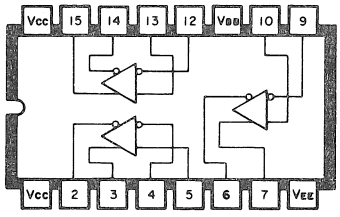
MC10107L 587-146 S

QUADRUPLE LINE RECEIVER



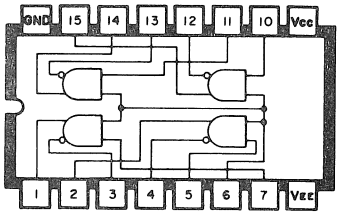
MC10115P 587-630 S

TRIPLE LINE RECEIVER



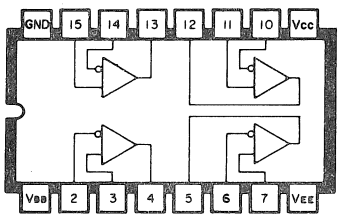
MC10116L 587-133 S

QUADRUPLE TTL TO ECL TRANSLATOR



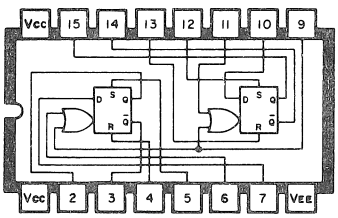
MC10124L 587-131 S

QUADRUPLE ECL TO TTL TRANSLATOR



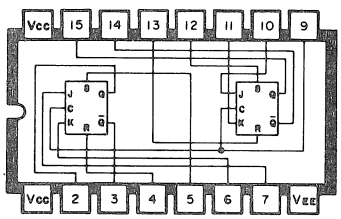
MC10125L 587-132 S
MC10125P 587-285

DUAL D-TYPE FLIP-FLOP



MC10131L 587-139 S

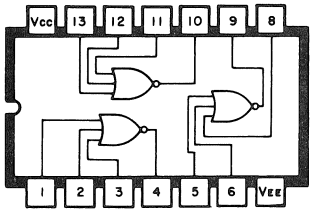
DUAL J-K FLIP-FLOP



MC10135L 587-483 S

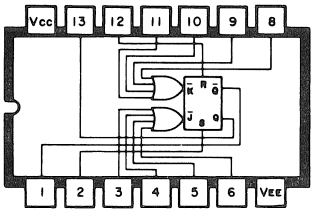
FIGURE 1-2. IC SPECIFICATIONS (SHEET 6 OF 11)

TRIPLE 3-INPUT NOR GATE



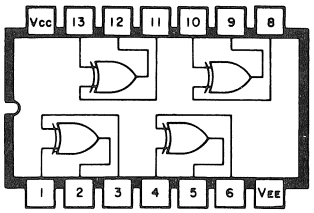
MC1007L 580-172
MC1007P 587-137 S

AC COUPLED J-K FLIP-FLOP



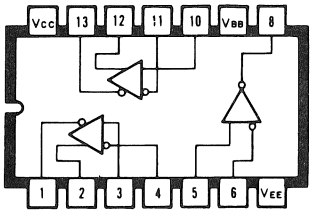
MC1013L 586-729
MC1013P 586-104 S

QUADRUPLE EXCLUSIVE OR GATE



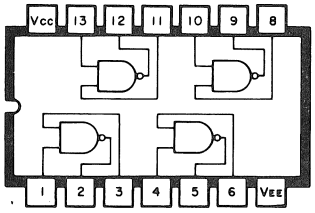
MC1030L 580-184
MC1030P 586-908 S

TRIPLE LINE RECEIVER



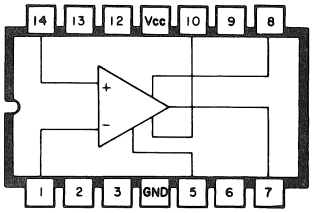
MC1035P 586-662 S

QUADRUPLE 2-INPUT NAND GATE



MC1048P 586-909 S

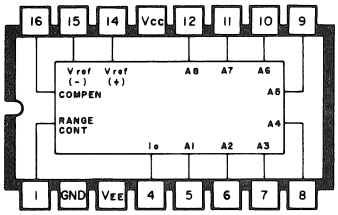
FM IF AMPLIFIER



NOTE: Pins 2,3,6,9,12,13 to be grounded.

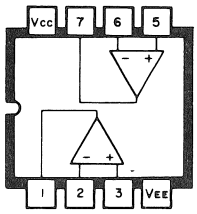
MC1355P 587-134 S

8-BIT D TO A CONVERTER



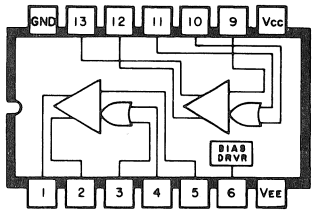
MC1408L-7L 587-672
MC1408L-8L 587-673

DUAL OPERATIONAL AMPLIFIER



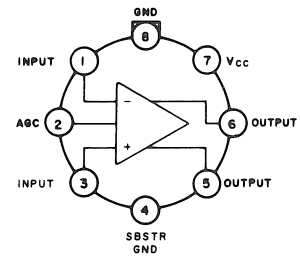
MC1458CPI 586-905 S

DUAL LINE DRIVER/RECEIVER



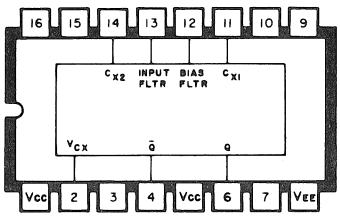
MC1580L 587-138 S

RF/IF AUDIO AMPLIFIER



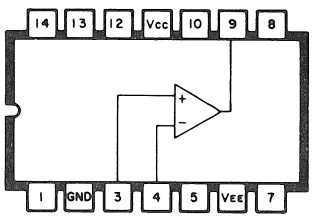
MC1590G 586-885 S

VOLTAGE CONTROLLED MULTIVIBRATOR



MC1658L 587-548 S

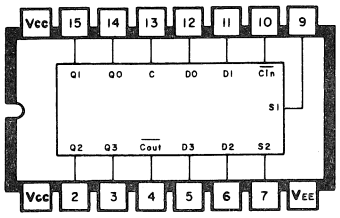
DIFFERENTIAL COMPARATOR



MC1710CL 586-250 S

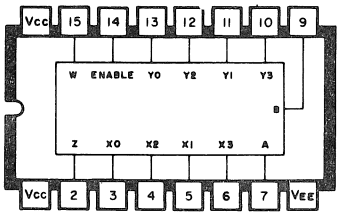
FIGURE 1-2. IC SPECIFICATIONS (SHEET 7 OF 11)

UNIVERSAL HEXADECIMAL COUNTER



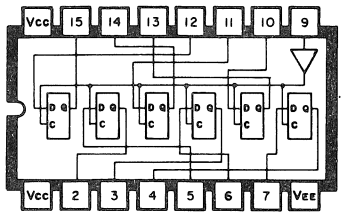
MC10136L 587-550 S

DUAL 4 TO 1 MULTIPLEXER



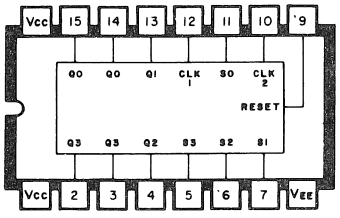
MC10174L 587-664 S

HEX D-TYPE FLIP-FLOP



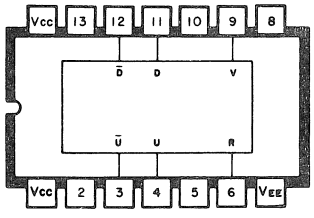
MC10176L 587-551 S

4-BIT BINARY COUNTER



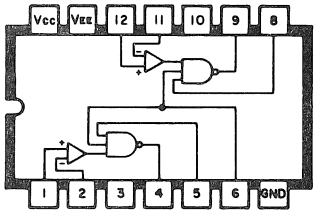
MC10178L 587-665 S

PHASE FREQUENCY DETECTOR



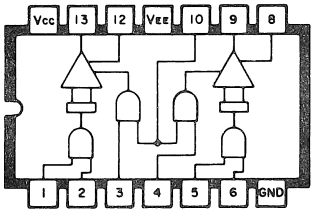
MC12040L 587-552 S

DUAL LINE RECEIVER



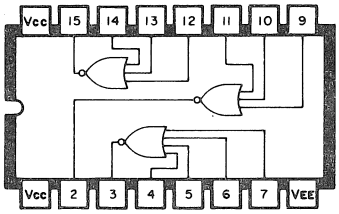
MC75107P 586-668 S
MC75108P (Open collector) 587-247 S

DUAL LINE DRIVER



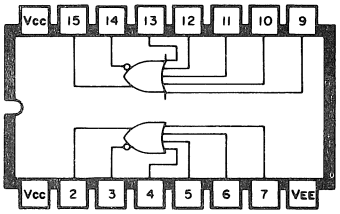
MC75110P 586-937 S

TRIPLE 4-3-3 INPUT NOR GATE



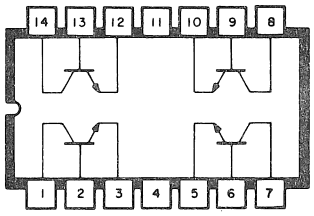
MC10106L 587-324 S

DUAL 4-5 INPUT OR/NOR GATE



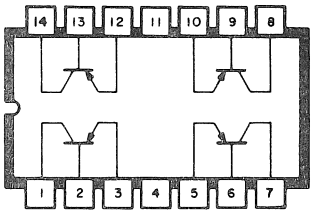
MC10109L 587-325 S

QUAD NPN SILICON AMPLIFIER / SWITCH TRANSISTOR



MPQ3904 580-854

QUAD PNP SILICON AMPLIFIER / SWITCH TRANSISTOR



MPQ3906 580-855

FIGURE 1-2. IC SPECIFICATIONS (SHEET 8 OF 11)

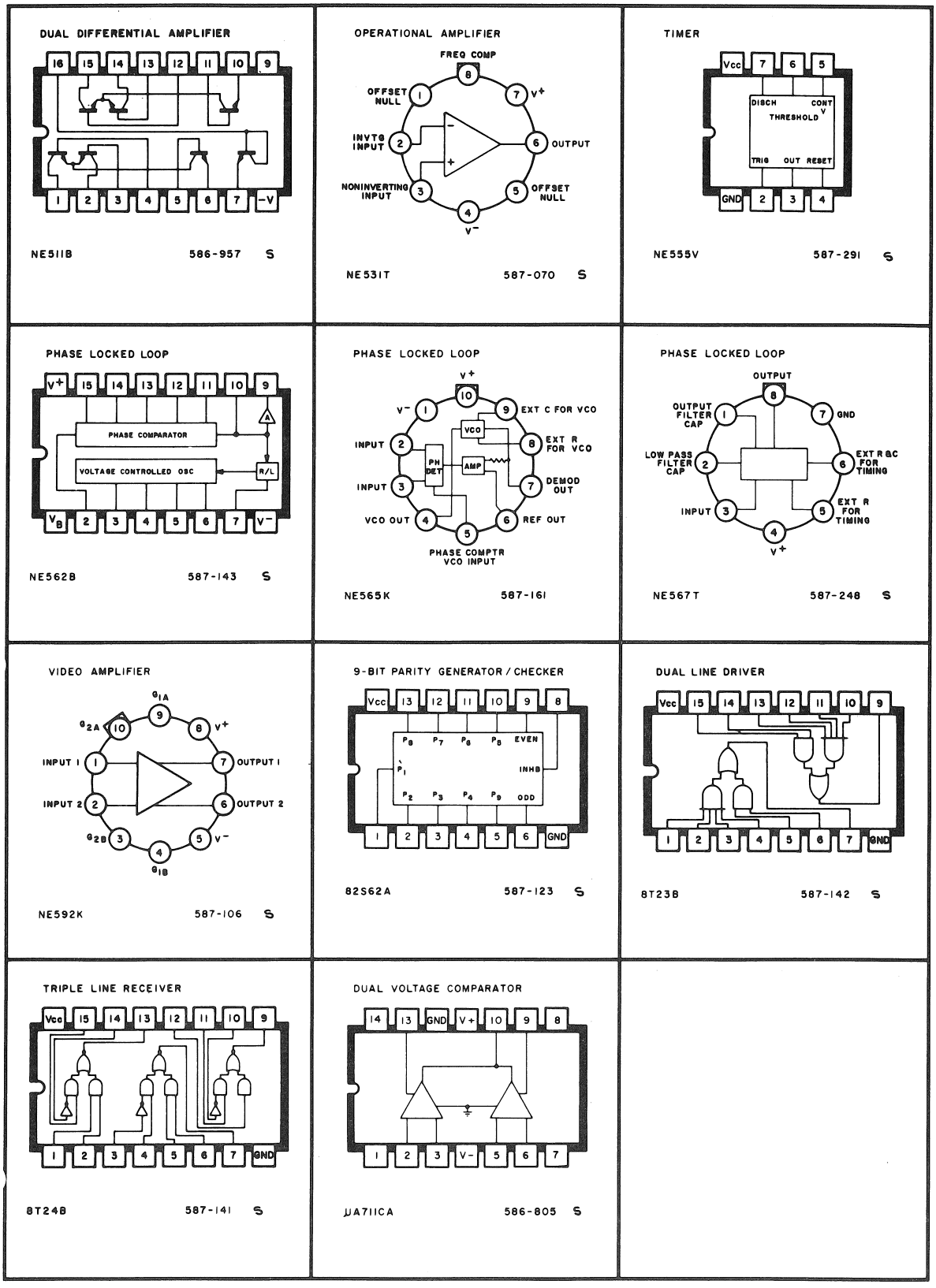


FIGURE 1-2. IC SPECIFICATIONS (SHEET 9 OF 11)

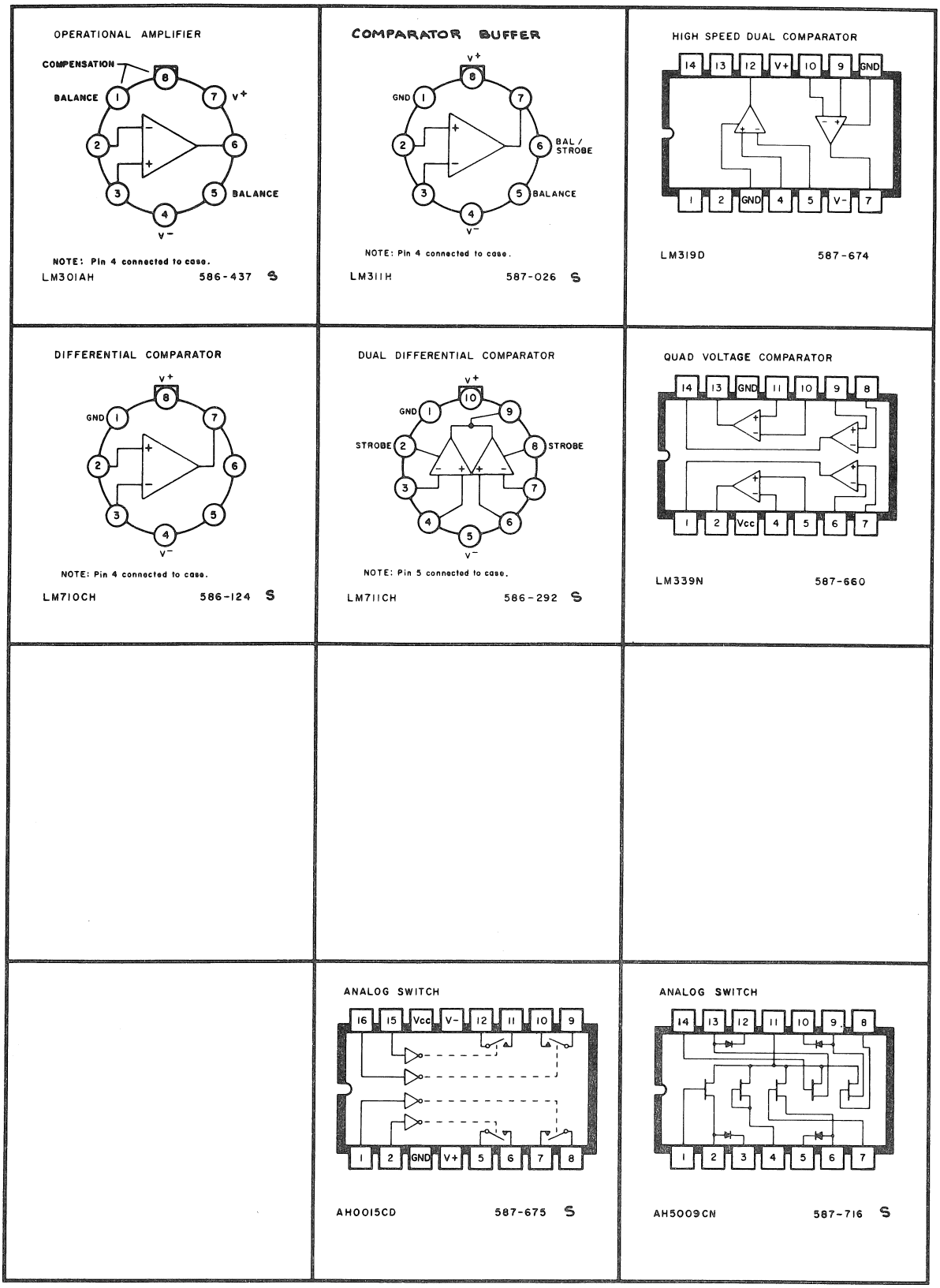
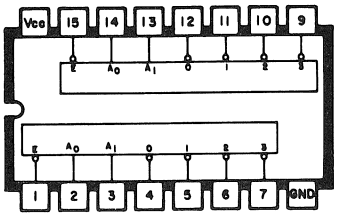


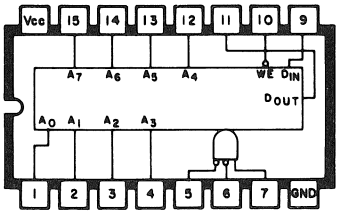
FIGURE 1-2. IC SPECIFICATIONS (SHEET 10 OF 11)

DUAL 2 TO 4 LINE DECODER



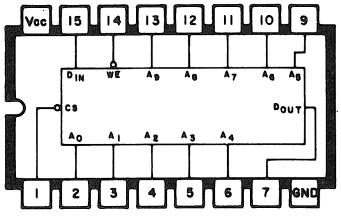
9321DC 587-145 S

256-BIT READ/WRITE MEMORY



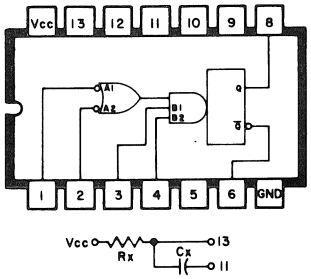
93410DC 587-040 S

1024-BIT READ/WRITE MEMORY



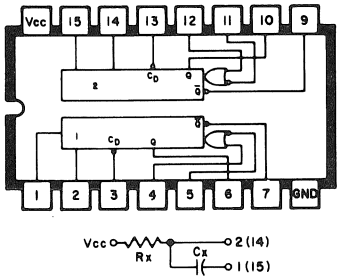
93415DC 587-140

ONE SHOT



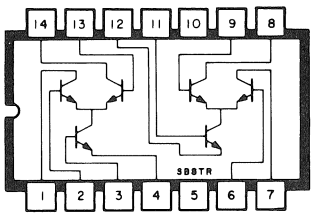
9601DC 586-309 S

DUAL RESETTABLE ONE SHOT



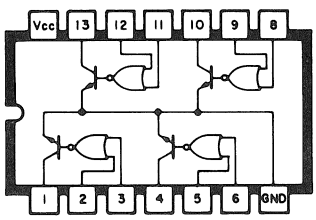
9602DC 587-144 S
96S02DC 587-837

TRANSISTOR ARRAY



CA3054 586-778 S

QUADRUPLE POWER DRIVERS



UHP-402 587-107 S

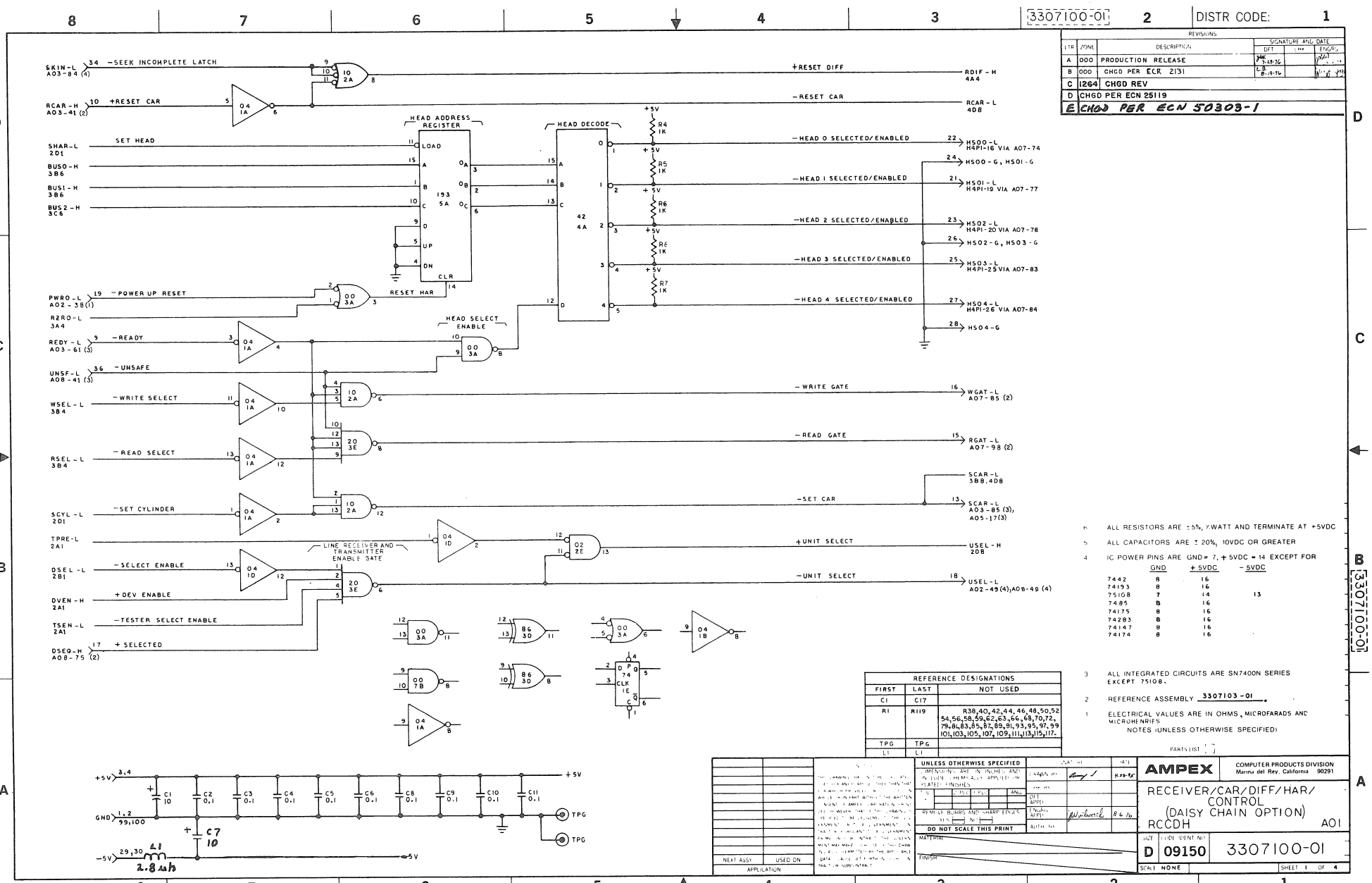
FIGURE 1-2. IC SPECIFICATIONS (SHEET 11 OF 11)

SCHEMATIC DIAGRAMS

The schematic diagrams of the printed circuit board assemblies are arranged in alphanumeric order starting with A01 and ending with the power sequencing logic diagram.

To locate a specific schematic diagram, refer to the table of contents in the front of this manual.

The following diagrams are for all options of the DM940/DM980 disk drive and RPQ43. The part number on the PCB installed in the drive should be checked against the appropriate schematic.



REFERENCE DESIGNATIONS		
FIRST	LAST	NOT USED
C1	C17	
R1	R119	R38,40,42,44,46,48,50,52 54,56,58,59,62,63,66,68,70,72, 79,81,83,85,87,89,91,93,95,97,99 101,103,105,107,109,111,113,115,117.
TPG	TPG	
L1	L1	

4. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC
5. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER
4. IC POWER PINS ARE GND = 7, + 5VDC = 14 EXCEPT FOR

	GND	+ 5VDC	- 5VDC
7442	8	16	
74193	8	16	
75108	7	14	13
7485	8	16	
74175	8	16	
74283	8	16	
74147	8	16	
74174	8	16	

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES EXCEPT 75108.
2. REFERENCE ASSEMBLY 3307103-01.
1. ELECTRICAL VALUES ARE IN OHMS, MICROFARADS AND MICROHENRIES

NOTES (UNLESS OTHERWISE SPECIFIED)

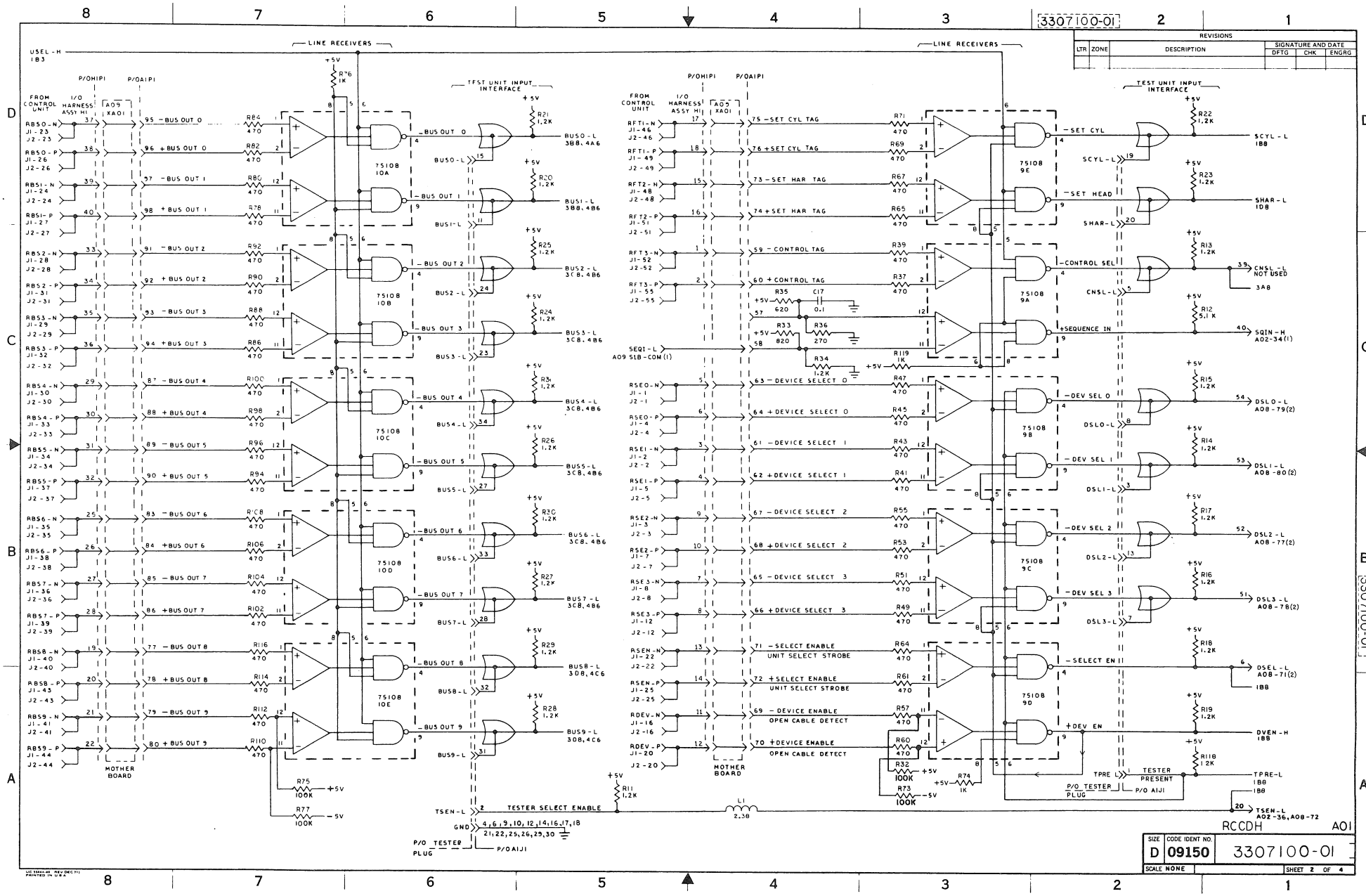
PARTS LIST

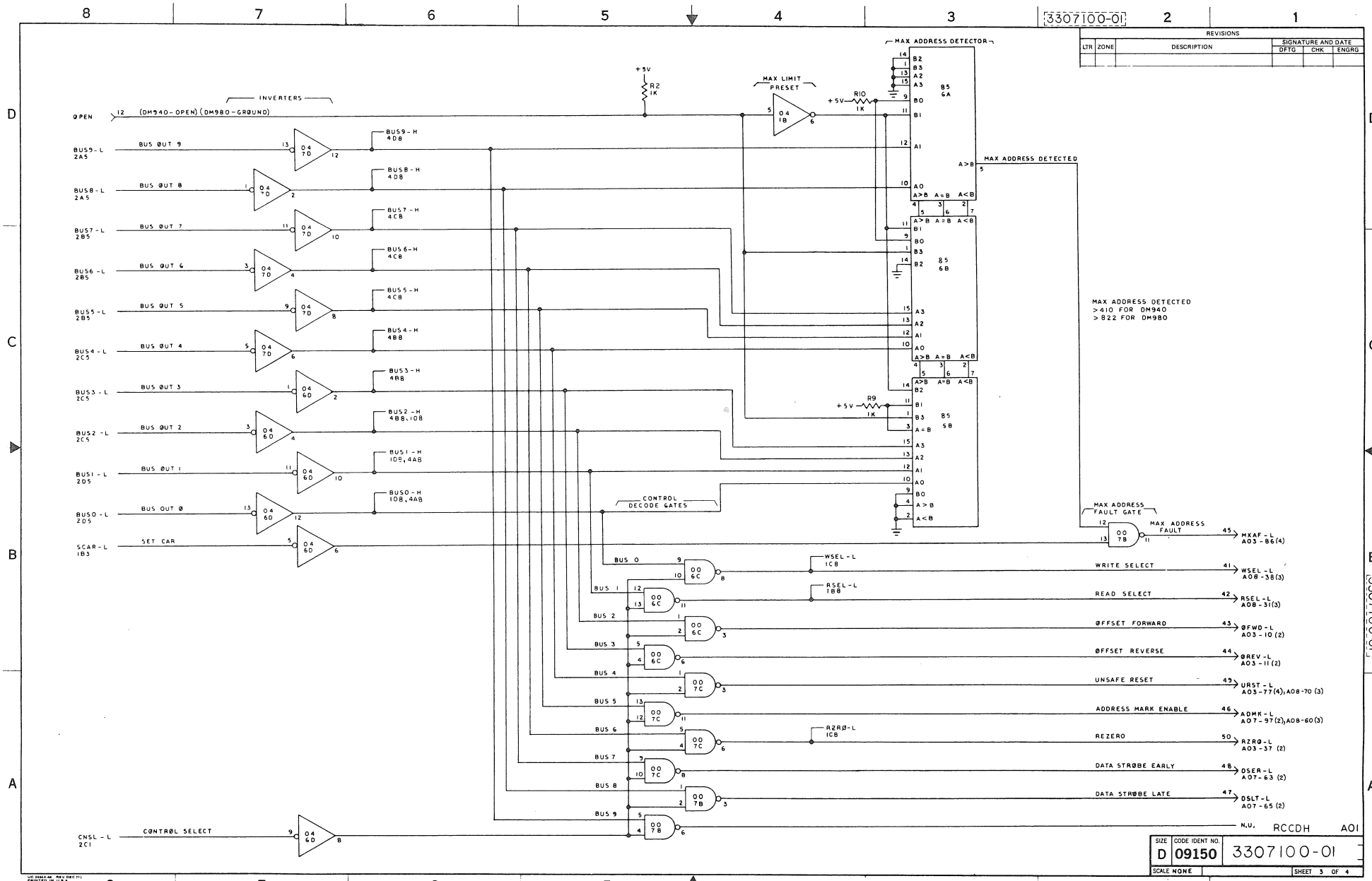
UNLESS OTHERWISE SPECIFIED
DO NOT SCALE THIS PRINT
NEXT ASSY USED ON
APPLICATION

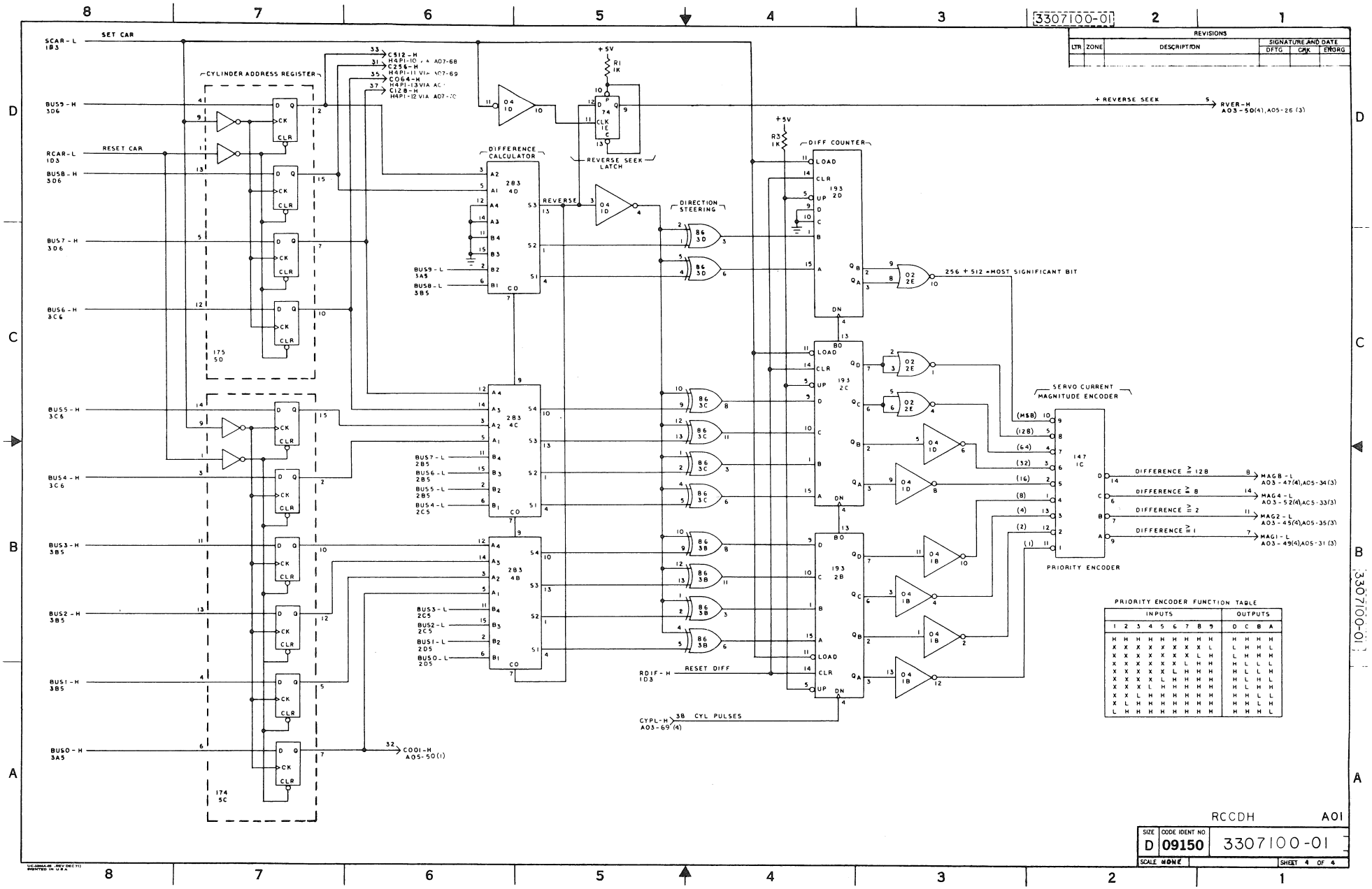
AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

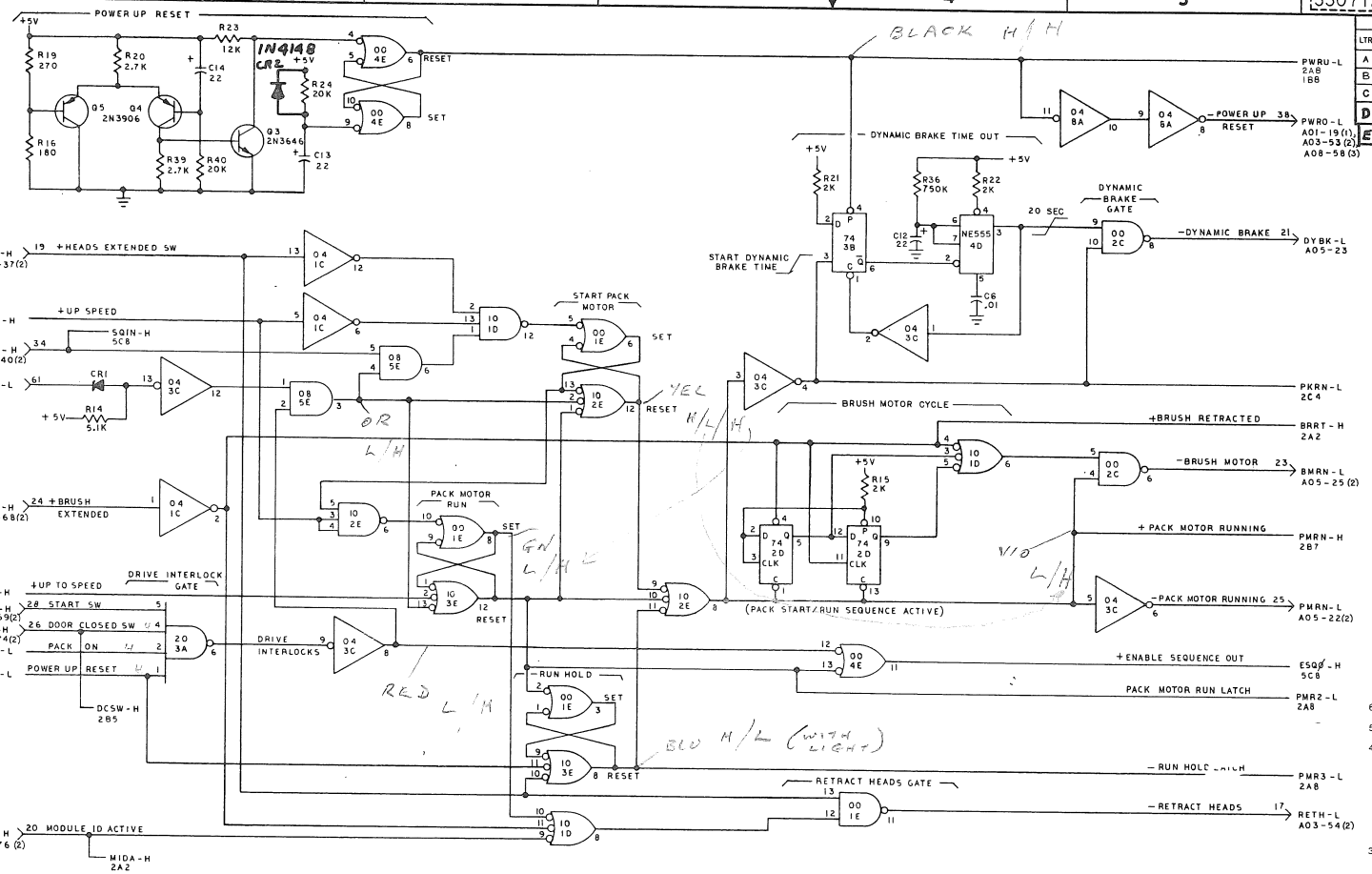
RECEIVER/CAR/DIFF/HAR/ CONTROL (DAISY CHAIN OPTION)
RCCDH A01

SIZE D | CODE IDENT NO 09150 | 3307100-01
SCALE NONE | SHEET 1 OF 4


3307100-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
LINE RECEIVERS
TEST UNIT INPUT INTERFACE
FROM CONTROL UNIT
I/O HARNESS ASSY H1
A09 XA01
P/O H1P1
P/O A1P1
MOTHER BOARD
USEL-H 18B
BUS0-N J1-23 J2-23
BUS0-P J1-26 J2-26
BUS1-N J1-24 J2-24
BUS1-P J1-27 J2-27
BUS2-N J1-28 J2-28
BUS2-P J1-31 J2-31
BUS3-N J1-29 J2-29
BUS3-P J1-32 J2-32
BUS4-N J1-30 J2-30
BUS4-P J1-33 J2-33
BUS5-N J1-34 J2-34
BUS5-P J1-37 J2-37
BUS6-N J1-35 J2-35
BUS6-P J1-38 J2-38
BUS7-N J1-36 J2-36
BUS7-P J1-39 J2-39
BUS8-N J1-40 J2-40
BUS8-P J1-43 J2-43
BUS9-N J1-41 J2-41
BUS9-P J1-44 J2-44
-BUS OUT 0
+BUS OUT 0
-BUS OUT 1
+BUS OUT 1
-BUS OUT 2
+BUS OUT 2
-BUS OUT 3
+BUS OUT 3
-BUS OUT 4
+BUS OUT 4
-BUS OUT 5
+BUS OUT 5
-BUS OUT 6
+BUS OUT 6
-BUS OUT 7
+BUS OUT 7
-BUS OUT 8
+BUS OUT 8
-BUS OUT 9
+BUS OUT 9
75108 10A
75108 10B
75108 10C
75108 10D
75108 10E
BUS0-L 3B8, 4A6
BUS1-L 3B8, 4B6
BUS2-L 3C8, 4B6
BUS3-L 3C8, 4B6
BUS4-L 3C8, 4B6
BUS5-L 3C8, 4B6
BUS6-L 3C8, 4B6
BUS7-L 3C8, 4B6
BUS8-L 3D8, 4C6
BUS9-L 3D8, 4C6
TSEN-L
TESTER SELECT ENABLE
GND
4,6,9,10,12,14,16,17,18
21,22,25,26,29,30
P/O TESTER PLUG
P/O A1J1
RFT1-N J1-46 J2-46
RFT1-P J1-49 J2-49
RFT2-N J1-48 J2-48
RFT2-P J1-51 J2-51
RFT3-N J1-52 J2-52
RFT3-P J1-55 J2-55
SEQ1-L A09 SLB-COM (1)
RSE0-N J1-1 J2-1
RSE0-P J1-4 J2-4
RSE1-N J1-2 J2-2
RSE1-P J1-5 J2-5
RSE2-N J1-3 J2-3
RSE2-P J1-7 J2-7
RSE3-N J1-8 J2-8
RSE3-P J1-12 J2-12
RSEN-N J1-22 J2-22
RSEN-P J1-25 J2-25
RDEV-N J1-16 J2-16
RDEV-P J1-20 J2-20
75 -SET CYL TAG
76 +SET CYL TAG
73 -SET HAR TAG
74 +SET HAR TAG
59 -CONTROL TAG
60 +CONTROL TAG
63 -DEVICE SELECT 0
64 +DEVICE SELECT 0
61 -DEVICE SELECT 1
62 +DEVICE SELECT 1
67 -DEVICE SELECT 2
68 +DEVICE SELECT 2
65 -DEVICE SELECT 3
66 +DEVICE SELECT 3
71 -SELECT ENABLE UNIT SELECT STROBE
72 +SELECT ENABLE UNIT SELECT STROBE
69 -DEVICE ENABLE OPEN CABLE DETECT
70 +DEVICE ENABLE OPEN CABLE DETECT
-SET CYL
-SET HEAD
-CONTROL SEL
+SEQUENCE IN
-DEV SEL 0
-DEV SEL 1
-DEV SEL 2
-DEV SEL 3
-SELECT EN
+DEV EN
75108 9E
75108 9D
75108 9C
75108 9B
75108 9A
SCYL-L 18B
SHAR-L 10B
CNSL-L NOT USED
3A8
SQIN-H A02-34(1)
DSL0-L A08-79(2)
DSL1-L A08-80(2)
DSL2-L A08-77(2)
DSL3-L A08-78(2)
DSEL-L A08-71(2)
DVEN-H 18B
TPRE-L 18B
TSEN-L A02-36, A08-72
TESTER PRESENT
P/O TESTER PLUG
P/O A1J1
RCCDH
A01
SIZE D
CODE IDENT NO. 09150
3307100-01
SCALE NONE
SHEET 2 OF 4


3307100-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
INVERTERS
OPEN
12 (DM940-OPEN) (DM980-GROUND)
BUS9-L 2A5
BUS OUT 9
BUS9-H 4D8
BUS8-L 2A5
BUS OUT 8
BUS8-H 4D8
BUS7-L 2B5
BUS OUT 7
BUS7-H 4C8
BUS6-L 2B5
BUS OUT 6
BUS6-H 4C8
BUS5-L 2B5
BUS OUT 5
BUS5-H 4C8
BUS4-L 2C5
BUS OUT 4
BUS4-H 4B8
BUS3-L 2C5
BUS OUT 3
BUS3-H 4B8
BUS2-L 2C5
BUS OUT 2
BUS2-H 4B8,10B
BUS1-L 2D5
BUS OUT 1
BUS1-H 10B,4AB
BUS0-L 2D5
BUS OUT 0
BUS0-H 10B,4AB
SCAR-L 1B3
SET CAR
CNSL-L 2C1
CONTROL SELECT
+5V
R2 1K
MAX LIMIT PRESET
R10 1K
R9 1K
MAX ADDRESS DETECTOR
B5 6A
B5 6B
B5 5B
MAX ADDRESS DETECTED
MAX ADDRESS DETECTED
>410 FOR DM940
>822 FOR DM980
CONTROL DECODE GATES
MAX ADDRESS FAULT GATE
MAX ADDRESS FAULT
MXAF-L A03-86(4)
BUS 0
BUS 1
BUS 2
BUS 3
BUS 4
BUS 5
BUS 6
BUS 7
BUS 8
BUS 9
WSEL-L 1C8
WRITE SELECT
WSEL-L A08-38(3)
RSEL-L 1B8
READ SELECT
RSEL-L A08-31(3)
ØFFSET FORWARD
ØFWD-L A03-10 (2)
ØFFSET REVERSE
ØREV-L A03-11(2)
UNSAFE RESET
URST-L A03-77(4),A08-70 (3)
ADDRESS MARK ENABLE
ADMK-L A07-97(2),A08-60(3)
RZRØ-L 1C8
REZERO
RZRØ-L A03-37 (2)
DATA STROBE EARLY
DSER-L A07-63 (2)
DATA STROBE LATE
DSLT-L A07-65 (2)
N.U.
RCCDH A01
SIZE D
CODE IDENT NO. 09150
3307100-01
SCALE NONE
SHEET 3 OF 4


3307100-01
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
SET CAR
SCAR-L 1B3
RESET CAR
RCAR-L 1D3
CYLINDER ADDRESS REGISTER
BUS9-H 3D6
BUS8-H 3D6
BUS7-H 3D6
BUS6-H 3C6
BUS5-H 3C6
BUS4-H 3C6
BUS3-H 3B5
BUS2-H 3B5
BUS1-H 3B5
BUS0-H 3A5
175 5D
174 5C
C512-H H4P1-10 VIA A07-68
C256-H H4P1-11 VIA A07-69
C064-H H4P1-13 VIA AC
C128-H H4P1-12 VIA A07-70
COOI-H A05-50(1)
+5V
R1 1K
R3 1K
+ REVERSE SEEK
RVER-H A03-50(4),A05-26 (3)
REVERSE SEEK LATCH
DIFFERENCE CALCULATOR
283 4D
283 4C
283 4B
REVERSE
DIRECTION STEERING
DIFF COUNTER
193 2D
193 2C
193 2B
256 + 512 = MOST SIGNIFICANT BIT
SERVO CURRENT MAGNITUDE ENCODER
147 1C
(MSB)
(128)
(64)
(32)
(16)
(8)
(4)
(2)
(1)
DIFFERENCE ≧ 128
DIFFERENCE ≧ 8
DIFFERENCE ≧ 2
DIFFERENCE ≧ 1
MAG8-L A03-47(4),A05-34(3)
MAG4-L A03-52(4),AC5-33(3)
MAG2-L A03-45(4),A05-35(3)
MAG1-L A03-49(4),A05-31 (3)
PRIORITY ENCODER
PRIORITY ENCODER FUNCTION TABLE
INPUTS 1 2 3 4 5 6 7 8 9
OUTPUTS D C B A
RDIF-H 1D3
RESET DIFF
CYPL-H A03-69 (4)
38 CYL PULSES
RCCDH A01
SIZE D
CODE IDENT NO 09150
3307100-01
SCALE NONE
SHEET 4 OF 4



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	7-8-76		
B	000	CHGD PER ECR 2131	8-19-76		
C		CHGD PER ECO 1382			
D		CHGD PER ECN 50003-S			
E		CHGD PER ECN 50304-1			

6 ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC

5 ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER

4 IC POWER PINS ARE GND 7, +5VDC 14, EXCEPT FOR

	GND	+5VDC	-5VDC
NE555	1	8	
9602DC	8	16	
74161	8	16	
75108	7	14	13
75110	7	14	11

3 ALL INTEGRATED CIRCUITS ARE SN7400N SERIES. EXCEPT FOR: NE555, 9602 DC, 75110, 75108.

2 REFERENCE ASSEMBLY 3307123-01

1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS.

NOTES: UNLESS OTHERWISE SPECIFIED

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
C1	C22	
CR1	CR1	R17, 60-91
R1	R89	R60-89
Q1	Q5	
TP1	TP2	

NEXT ASSY | USED ON

APPLICATION

NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANSI 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	Barry	7-7-75
CHK BY		
DFT APPD	W.D. Francis	7-22-76
ENGRG APPD		
AUTH BY		

PARTS LIST ☐

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

PACK CONTROL/INDEX/SECTOR XMTR
WITH DAISY CHAIN OPTION AND
SECTOR COUNTER OPTION
PCIST
A02

SIZE	CODE IDENT NO.	
D	09150	3307120-01

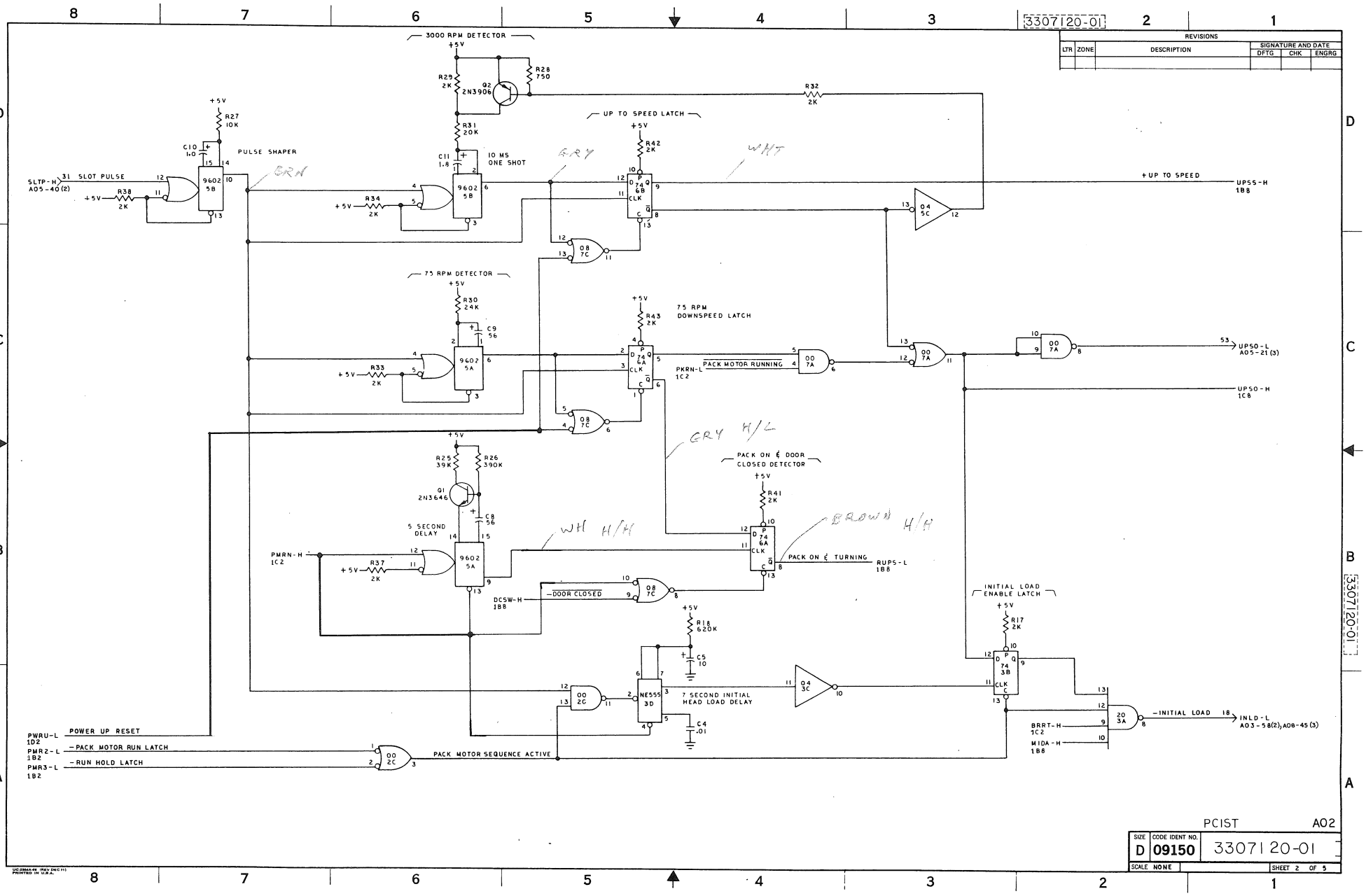
SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 5

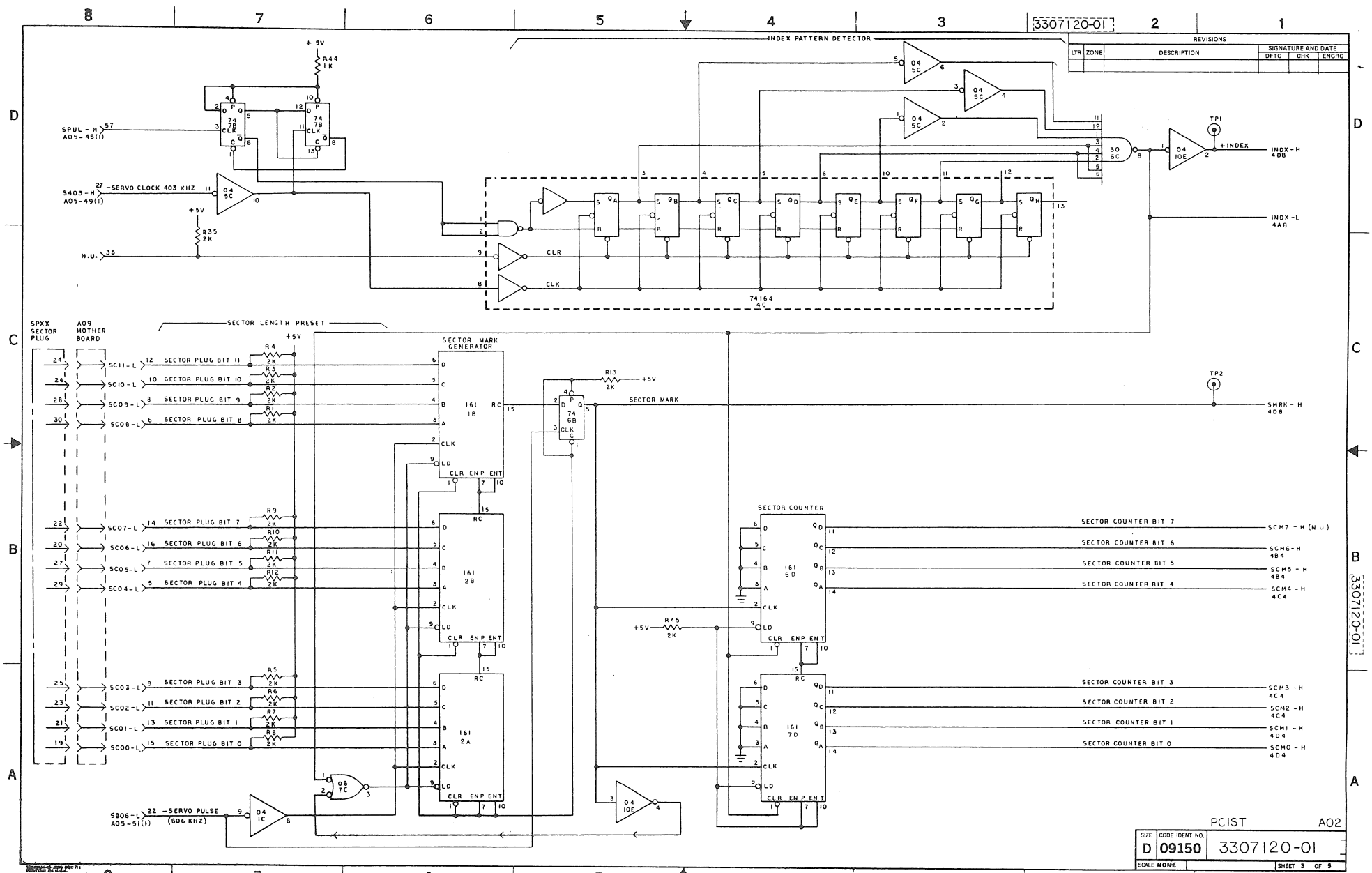
UC-32645 (REV NOV 73) PRINTED IN U.S.A.

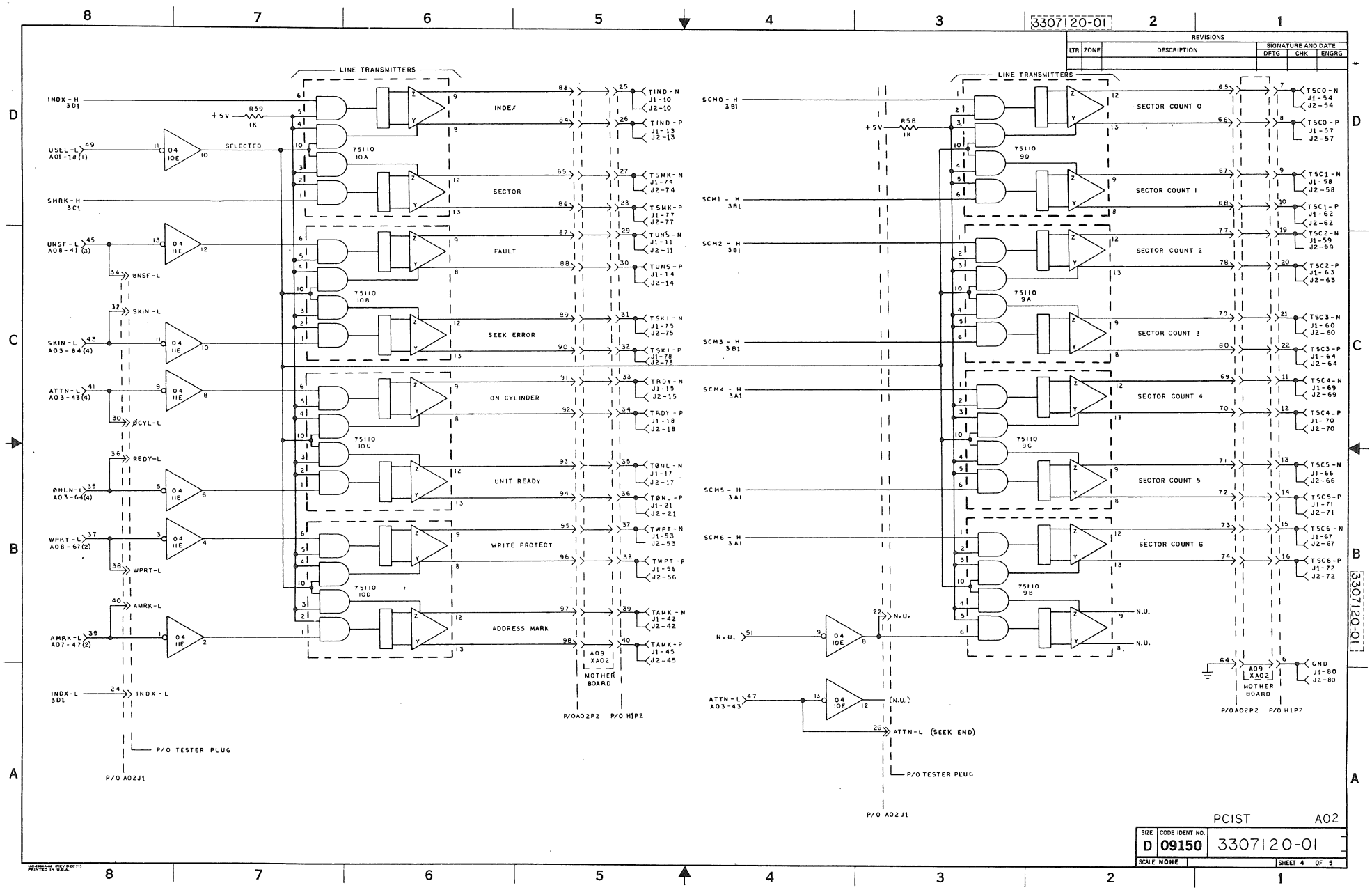
3307120-01

3307120-01

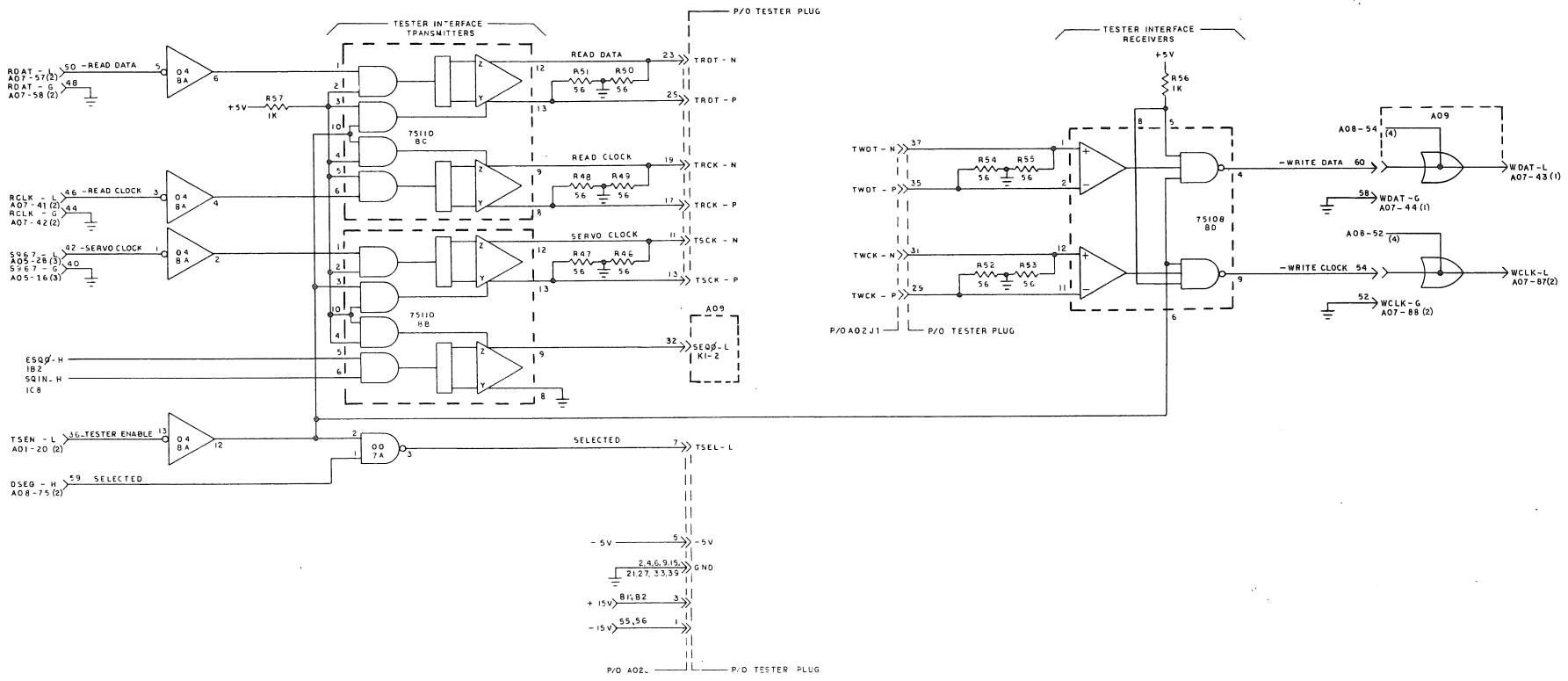
DISTR CODE:


3307120-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
3000 RPM DETECTOR
UP TO SPEED LATCH
PULSE SHAPER
10 MS ONE SHOT
SLTP-H 31 SLOT PULSE A05-40(2)
+UP TO SPEED
UPSS-H 1B8
75 RPM DETECTOR
75 RPM DOWNSPEED LATCH
PACK MOTOR RUNNING
PKRN-L 1C2
UPSO-L A05-21(3)
UPSO-H 1C8
PACK ON & DOOR CLOSED DETECTOR
5 SECOND DELAY
PMRN-H 1C2
PACK ON & TURNING
RUPS-L 1B8
DCSW-H 1B8
-DOOR CLOSED
INITIAL LOAD ENABLE LATCH
7 SECOND INITIAL HEAD LOAD DELAY
-INITIAL LOAD 1B
INLD-L A03-58(2), A08-45(3)
BRRT-H 1C2
MIDA-H 1B8
PWRU-L 1D2 POWER UP RESET
PMR2-L 1B2 -PACK MOTOR RUN LATCH
PMR3-L 1B2 -RUN HOLD LATCH
PACK MOTOR SEQUENCE ACTIVE
PCIST A02
SIZE D CODE IDENT NO. 09150 3307120-01
SCALE NONE SHEET 2 OF 5


3307120-01
INDEX PATTERN DETECTOR
SECTOR LENGTH PRESET
SECTOR MARK GENERATOR
SECTOR COUNTER
SPXX SECTOR PLUG
A09 MOTHER BOARD
+5V
R44 1K
SPUL-H A05-45(1)
-SERVO CLOCK 403 KHZ
S403-H A05-49(1)
R35 2K
N.U.
CLR
CLK
74164 4C
TP1
+INDEX
INDX-H 4D8
INDX-L 4A8
TP2
SMRK-H 4D8
SECTOR MARK
R13 2K
R45 2K
SC11-L SECTOR PLUG BIT 11
SC10-L SECTOR PLUG BIT 10
SC09-L SECTOR PLUG BIT 9
SC08-L SECTOR PLUG BIT 8
SC07-L SECTOR PLUG BIT 7
SC06-L SECTOR PLUG BIT 6
SC05-L SECTOR PLUG BIT 5
SC04-L SECTOR PLUG BIT 4
SC03-L SECTOR PLUG BIT 3
SC02-L SECTOR PLUG BIT 2
SC01-L SECTOR PLUG BIT 1
SC00-L SECTOR PLUG BIT 0
SECTOR COUNTER BIT 7
SECTOR COUNTER BIT 6
SECTOR COUNTER BIT 5
SECTOR COUNTER BIT 4
SECTOR COUNTER BIT 3
SECTOR COUNTER BIT 2
SECTOR COUNTER BIT 1
SECTOR COUNTER BIT 0
SCM7-H (N.U.)
SCM6-H 4B4
SCM5-H 4B4
SCM4-H 4C4
SCM3-H 4C4
SCM2-H 4C4
SCM1-H 4D4
SCM0-H 4D4
S806-L A05-51(1) -SERVO PULSE (806 KHZ)
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
PCIST A02
SIZE D CODE IDENT NO. 09150 3307120-01
SCALE NONE SHEET 3 OF 5


3307120-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
LINE TRANSMITTERS
INDX-H 3D1
+5V
R59 1K
USEL-L A01-18 (1)
04 10E
SELECTED
SMRK-H 3C1
UNSF-L A08-41 (3)
04 11E
UNSF-L
SKIN-L A03-84 (4)
SKIN-L
ATTN-L A03-43 (4)
ØCYL-L
REDY-L
ØNLN-L A03-64 (4)
WPRT-L A08-67 (2)
WPRT-L
AMRK-L A07-47 (2)
AMRK-L
INDX-L
INDX-L 3D1
P/O TESTER PLUG
P/O A02J1
75110 10A
75110 10B
75110 10C
75110 10D
INDEX
SECTOR
FAULT
SEEK ERROR
ON CYLINDER
UNIT READY
WRITE PROTECT
ADDRESS MARK
TIND-N J1-10 J2-10
TIND-P J1-13 J2-13
TSMK-N J1-74 J2-74
TSMK-P J1-77 J2-77
TUNS-N J1-11 J2-11
TUNS-P J1-14 J2-14
TSKI-N J1-75 J2-75
TSKI-P J1-78 J2-78
TRDY-N J1-15 J2-15
TRDY-P J1-18 J2-18
TØNL-N J1-17 J2-17
TØNL-P J1-21 J2-21
TWPT-N J1-53 J2-53
TWPT-P J1-56 J2-56
TAMK-N J1-42 J2-42
TAMK-P J1-45 J2-45
A09 XA02 MOTHER BOARD
P/OA02P2 P/O H1P2
SCM0-H 3B1
SCM1-H 3B1
SCM2-H 3B1
SCM3-H 3B1
SCM4-H 3A1
SCM5-H 3A1
SCM6-H 3A1
R58 1K
SECTOR COUNT 0
SECTOR COUNT 1
SECTOR COUNT 2
SECTOR COUNT 3
SECTOR COUNT 4
SECTOR COUNT 5
SECTOR COUNT 6
TSC0-N J1-54 J2-54
TSC0-P J1-57 J2-57
TSC1-N J1-58 J2-58
TSC1-P J1-62 J2-62
TSC2-N J1-59 J2-59
TSC2-P J1-63 J2-63
TSC3-N J1-60 J2-60
TSC3-P J1-64 J2-64
TSC4-N J1-69 J2-69
TSC4-P J1-70 J2-70
TSC5-N J1-66 J2-66
TSC5-P J1-71 J2-71
TSC6-N J1-67 J2-67
TSC6-P J1-72 J2-72
GND J1-80 J2-80
N.U.
ATTN-L A03-43
(N.U.)
ATTN-L (SEEK END)
P/O TESTER PLUG
P/O A02J1
PCIST A02
SIZE D
CODE IDENT NO. 09150
3307120-01
SCALE NONE
SHEET 4 OF 5

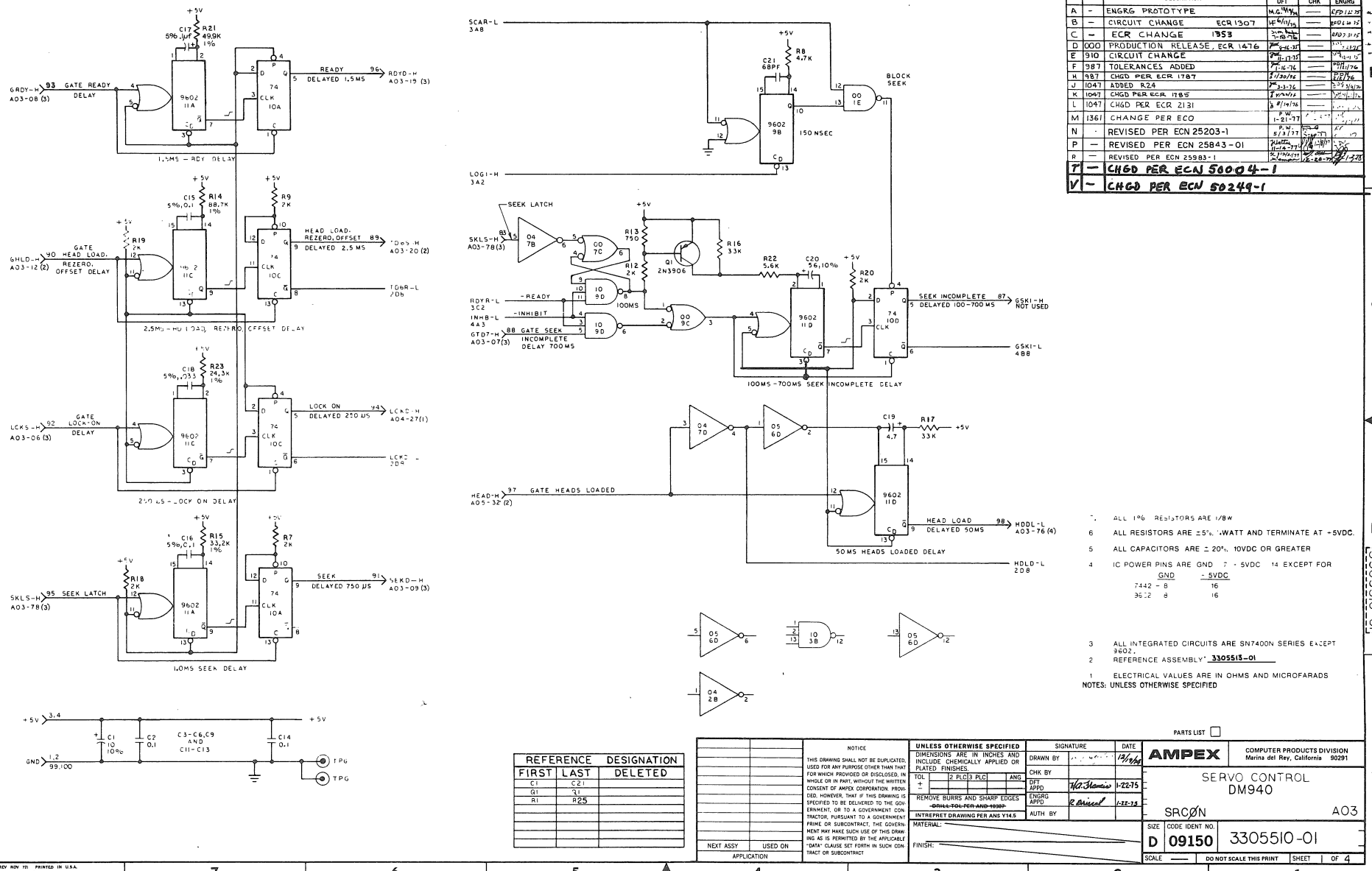
REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE		
			DFTG	CHK	ENGRG



PCIST A02

SIZE	CODE IDENT NO.	3307120-01
D	09150	
SCALE NONE		SHEET 5 OF 5

LITHO IN U.S.A.



REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	-	ENGRG PROTOTYPE	M.G. 11/11/74	—	KFD 12-75
B	-	CIRCUIT CHANGE ECR 1307	12/6/75	—	KFD 12-75
C	-	ECR CHANGE 1353	1-28-76	—	KFD 3-15
D	000	PRODUCTION RELEASE, ECR 1476	5-26-76	—	5-26-76
E	910	CIRCUIT CHANGE	8-13-76	—	8-13-76
F	987	TOLERANCES ADDED	9-16-76	—	9-16-76
H	987	CHGD PER ECR 1787	11/30/76	—	12/8/76
J	1047	ADDED R24	3-3-76	—	3/4/77
K	1047	CHGD PER ECR 1785	3/4/77	—	3/4/77
L	1047	CHGD PER ECR 2131	8/19/76	—	8/19/76
M	1361	CHANGE PER ECO	P.W. 1-21-77	—	1-21-77
N	·	REVISED PER ECN 25203-1	P.W. 5/3/77	5/3/77	5/3/77
P	—	REVISED PER ECN 25843-01	11-14-77	11-14-77	11-14-77
R	—	REVISED PER ECN 25983-1	P. Wallace 12-20-77	12-20-77	12-20-77
T	—	CHGD PER ECN 50004-1			
V	-	CHGD PER ECN 50249-1			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
C1	C21	
Q1	Q1	
R1	R25	

7. ALL 1% RESISTORS ARE 1/8W
6. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC.
5. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER
4. IC POWER PINS ARE GND 7 - 5VDC 14 EXCEPT FOR

	GND	+5VDC
7442 - 8		16
9602 - 8		16

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES EXCEPT 9602.
2. REFERENCE ASSEMBLY 3305513-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

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NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL: ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
~~DRILL TOL PER AND 1030?~~
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY		12/14/74
CHK BY		
DFT APPD	W.Stamios	1-22-75
ENGRG APPD	R Driscoll	1-22-75
AUTH BY		

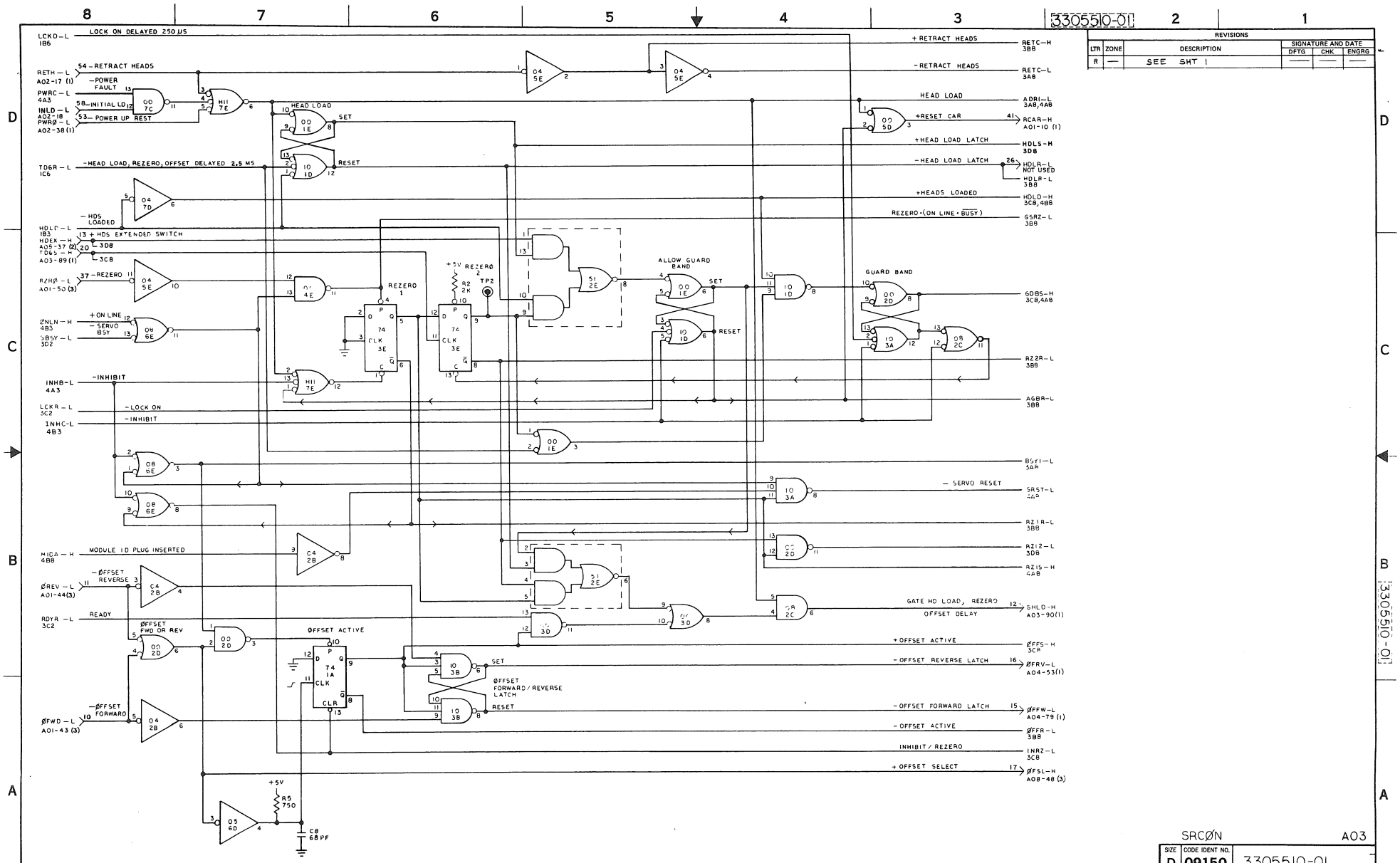
AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

SERVO CONTROL
DM940
SRCØN A03

SIZE D | CODE IDENT NO. 09150 | 3305510-01
SCALE — | DO NOT SCALE THIS PRINT | SHEET OF 4

UC-30436B (REV NOV 77) PRINTED IN U.S.A.

DM940



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFTG	CHK	ENGRG
R	—	SEE SHT 1	—	—	—

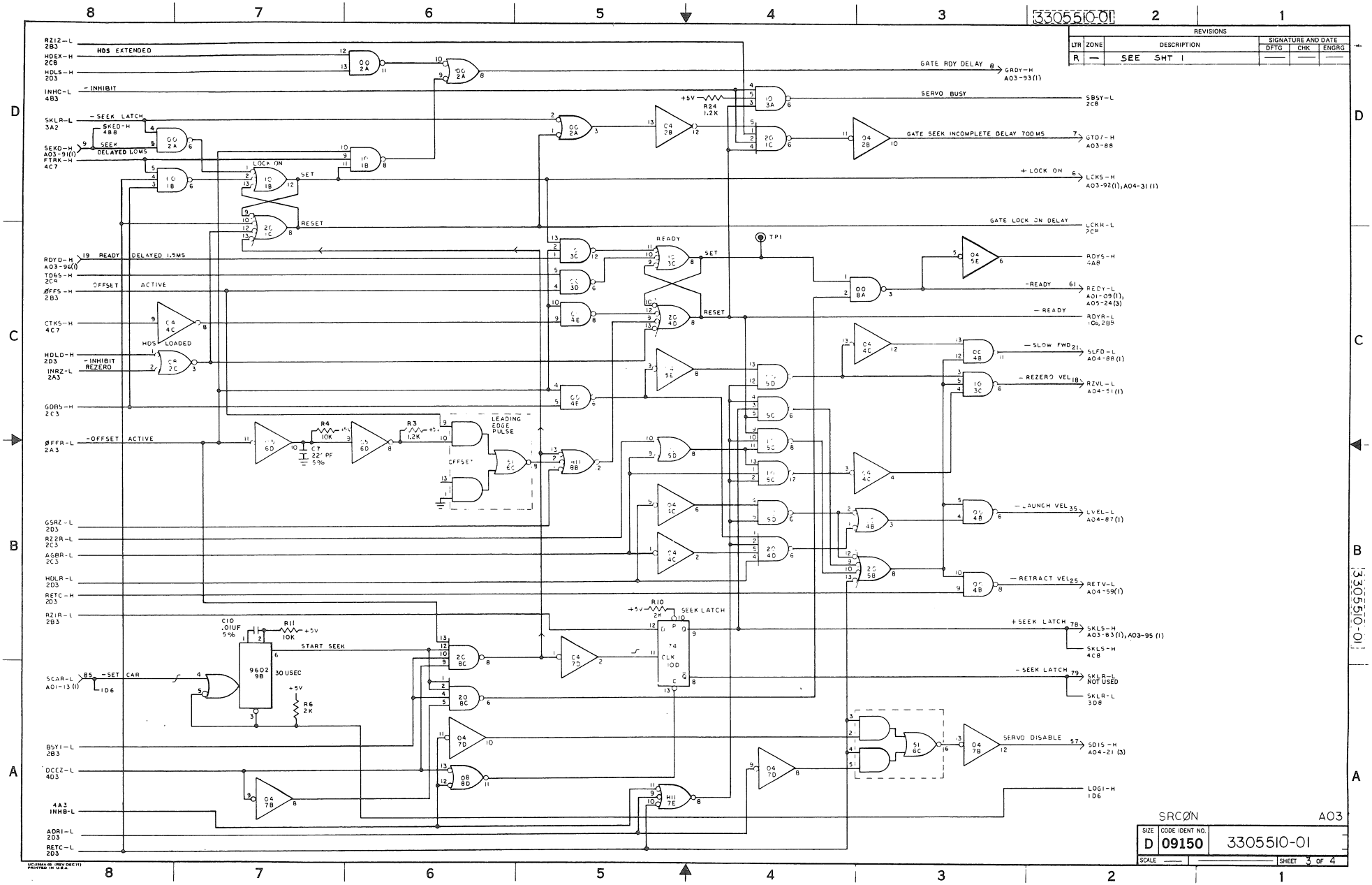
SRCØN A03

SIZE	CODE IDENT NO.	
D	09150	3305510-01

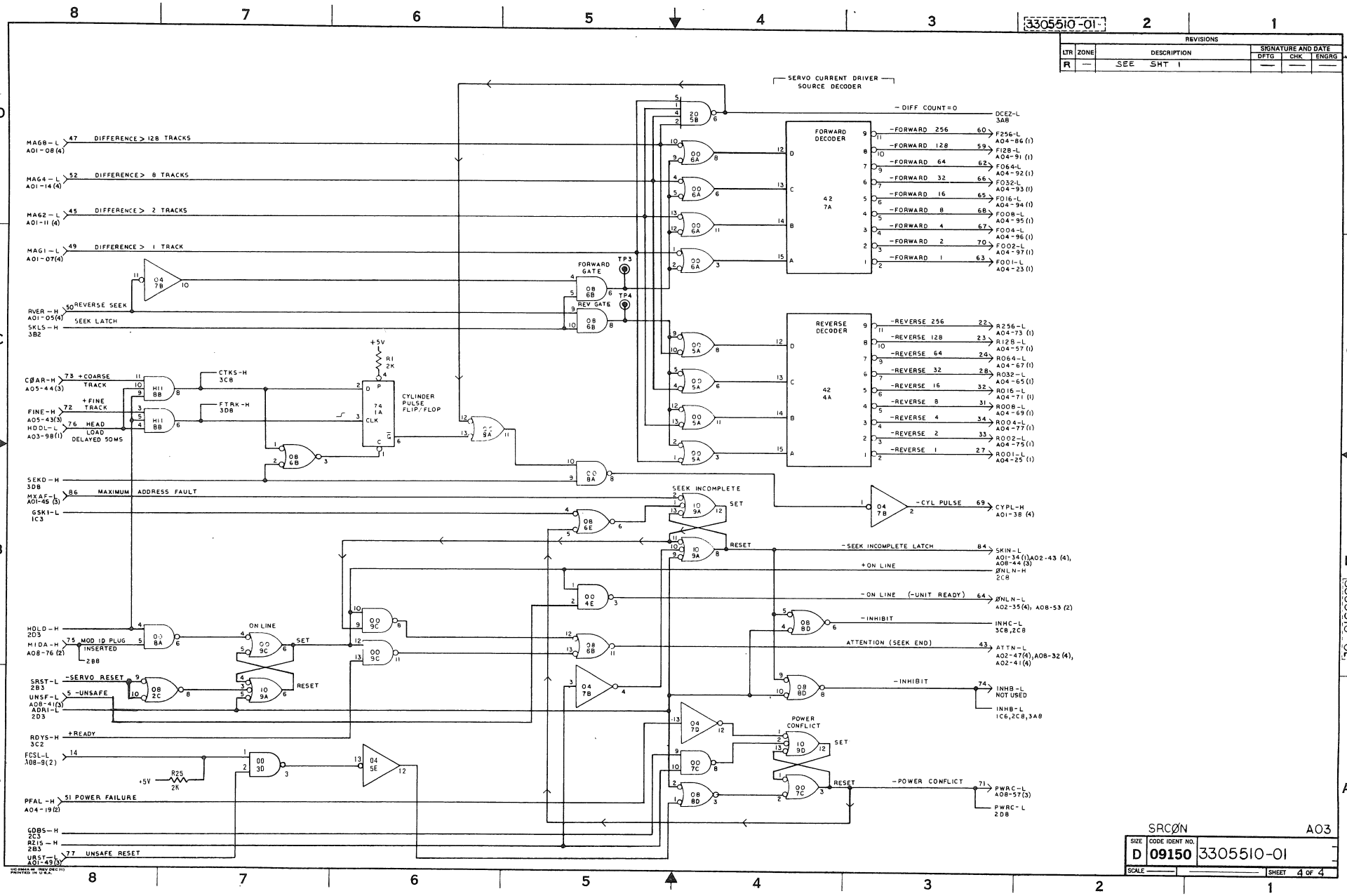
SCALE — SHEET 2 OF 4

3305510-01

DM940


3305510-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
R — SEE SHT 1
HDS EXTENDED
- INHIBIT
- SEEK LATCH
SEEK DELAYED 1.0MS
LOCK ON
SET
RESET
READY
DELAYED 1.5MS
OFFSET ACTIVE
HDS LOADED
- INHIBIT REZERO
- OFFSET ACTIVE
LEADING EDGE PULSE
START SEEK
30 USEC
- SET CAR
GATE RDY DELAY
SERVO BUSY
GATE SEEK INCOMPLETE DELAY 700 MS
+ LOCK ON
GATE LOCK ON DELAY
- READY
- SLOW FWD
- REZERO VEL
- LAUNCH VEL
- RETRACT VEL
+ SEEK LATCH
- SEEK LATCH
SERVO DISABLE
SRCØN A03
SIZE D CODE IDENT NO. 09150 3305510-01
SCALE SHEET 3 OF 4

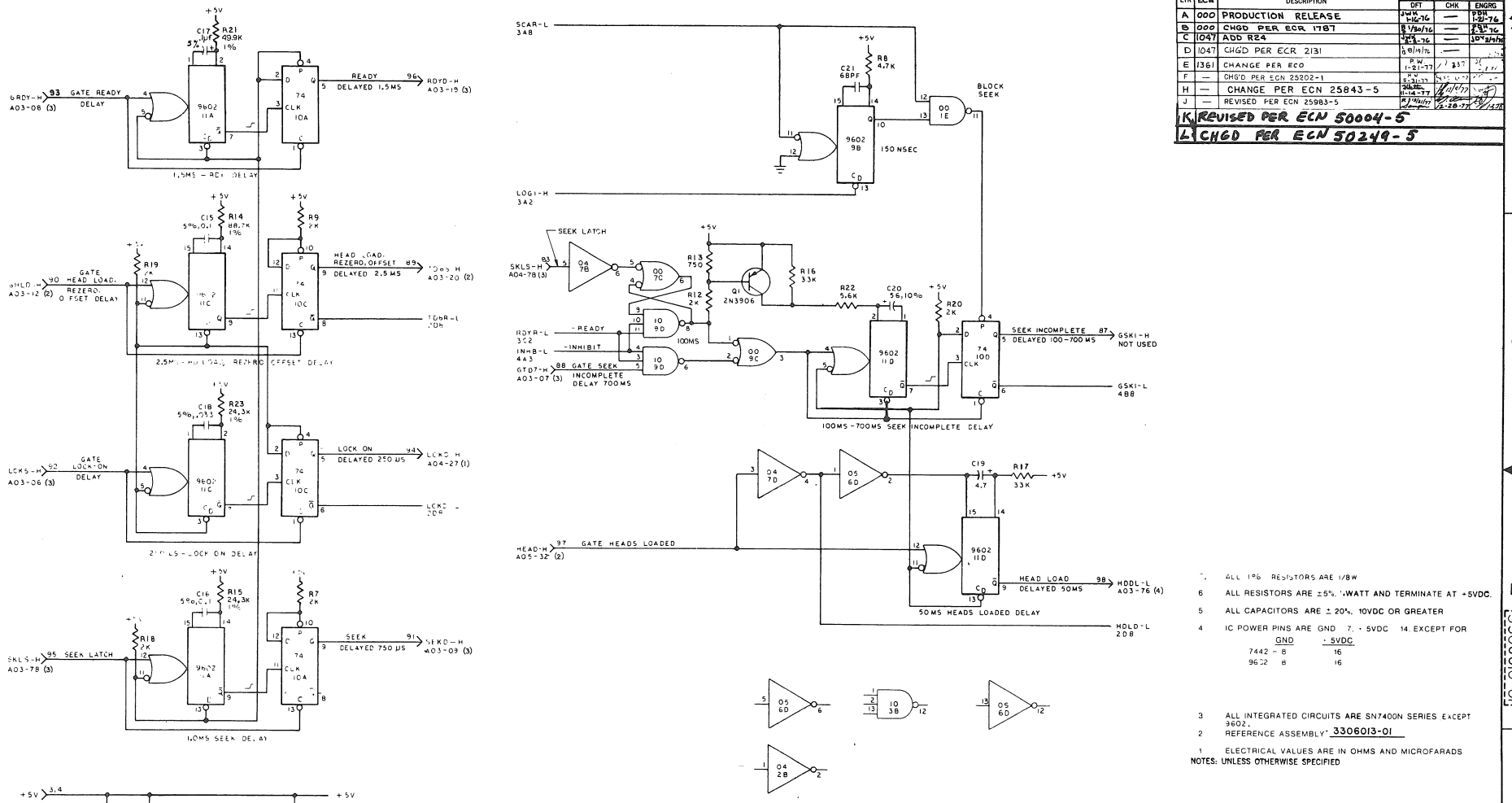
JM 940


3305510-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
R — SEE SHT 1
SERVO CURRENT DRIVER SOURCE DECODER
MAG8-L A01-08(4) 47 DIFFERENCE > 128 TRACKS
MAG4-L A01-14(4) 52 DIFFERENCE > 8 TRACKS
MAG2-L A01-11(4) 45 DIFFERENCE > 2 TRACKS
MAG1-L A01-07(4) 49 DIFFERENCE > 1 TRACK
RVER-H A01-05(4) 50 REVERSE SEEK
SKLS-H 3B2 SEEK LATCH
-DIFF COUNT=0
DCEZ-L 3A8
FORWARD DECODER
42 7A
-FORWARD 256 60 F256-L A04-86(1)
-FORWARD 128 59 F128-L A04-91(1)
-FORWARD 64 62 F064-L A04-92(1)
-FORWARD 32 66 F032-L A04-93(1)
-FORWARD 16 65 F016-L A04-94(1)
-FORWARD 8 68 F008-L A04-95(1)
-FORWARD 4 67 F004-L A04-96(1)
-FORWARD 2 70 F002-L A04-97(1)
-FORWARD 1 63 F001-L A04-23(1)
FORWARD GATE
REV GATE
TP3
TP4
REVERSE DECODER
42 4A
-REVERSE 256 22 R256-L A04-73(1)
-REVERSE 128 23 R128-L A04-57(1)
-REVERSE 64 24 R064-L A04-67(1)
-REVERSE 32 28 R032-L A04-65(1)
-REVERSE 16 32 R016-L A04-71(1)
-REVERSE 8 31 R008-L A04-69(1)
-REVERSE 4 34 R004-L A04-77(1)
-REVERSE 2 33 R002-L A04-75(1)
-REVERSE 1 27 R001-L A04-25(1)
CØAR-H A05-44(3) 73 +COARSE TRACK
FINE-H A05-43(3) 72 +FINE TRACK
HØDL-L A03-98(1) 76 HEAD LOAD DELAYED 50MS
+5V R1 2K
CTKS-H 3C8
FTRK-H 3D8
CYLINDER PULSE FLIP/FLOP
SEKD-H 3D8
MXAF-L A01-45(3) 86 MAXIMUM ADDRESS FAULT
GSKI-L 1C3
SEEK INCOMPLETE
SET
RESET
-CYL PULSE
CYPL-H A01-38(4)
-SEEK INCOMPLETE LATCH 84 SKIN-L A01-34(1),A02-43(4), A08-44(3)
+ON LINE ØNLN-H 2C8
-ON LINE (-UNIT READY) 64 ØNLN-L A02-35(4), A08-53(2)
-INHIBIT INHC-L 3C8,2C8
ATTENTION (SEEK END) 43 ATTN-L A02-47(4),A08-32(4), A02-41(4)
-INHIBIT 74 INHB-L NOT USED
INHB-L 1C6,2C8,3A8
HØLD-H 2D3
MIDA-H A08-76(2) 75 MOD ID PLUG INSERTED 288
ON LINE
SRST-L 2B3 -SERVO RESET
UNSF-L A08-41(3) 5 -UNSAFE
ADRI-L 2D3
RDYS-H 3C2 +READY
FCSL-L 108-9(2) 14
R25 2K
PFAL-H A04-19(2) 51 POWER FAILURE
GDBS-H 2C3
RZIS-H 2B3
URST-L A01-49(3) 77 UNSAFE RESET
POWER CONFLICT
-POWER CONFLICT 71 PWRC-L A08-57(3)
PWRC-L 2D8
SRCØN A03
SIZE D
CODE IDENT NO. 09150
3305510-01
SCALE
SHEET 4 OF 4

DM 940

3306010-01 | DIST CODE: DG

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	JWW 1-26-76	—	PDH 1-27-76
B	000	CHGD PER ECR 1787	BW 1/30/76	—	PDH 2-2-76
C	1047	ADD R24	JWW 3-5-76	—	JDY 3/5/76
D	1047	CHGD PER ECR 2131	6/8/77	—	
E	1361	CHANGE PER ECO	PW 1-21-77		
F	—	CHG'D PER ECN 25202-1	JWW 3-31-77		
H	—	CHANGE PER ECN 25843-5	JWW 11-14-77		
J	—	REVISED PER ECN 25983-5	RJ 12/14/77		
K		REVISED PER ECN 50004-5			
L		CHGD PER ECN 50249-5			



REFERENCE DESIGNATION	
FIRST	LAST DELETED
C1	C21
Q1	Q1
R1	R25

NOTICE: THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT

NEXT ASSY | USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
~~DRILL TOL PER ANSI 10307~~
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY		12/9/75
CHK BY		
DFT APPD	Harold Harris	1-22-76
ENGRG APPD	R Brizzel	1-22-76
AUTH BY		

PARTS LIST ☐

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

SERVO CONTROL
DM980
SRCØN A03

SIZE D | CODE IDENT NO. 09150 | 3306010-01

SCALE — | DO NOT SCALE THIS PRINT | SHEET OF 4

7. ALL 1% RESISTORS ARE 1/8W
6. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC.
5. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER
4. IC POWER PINS ARE GND 7, +5VDC 14. EXCEPT FOR

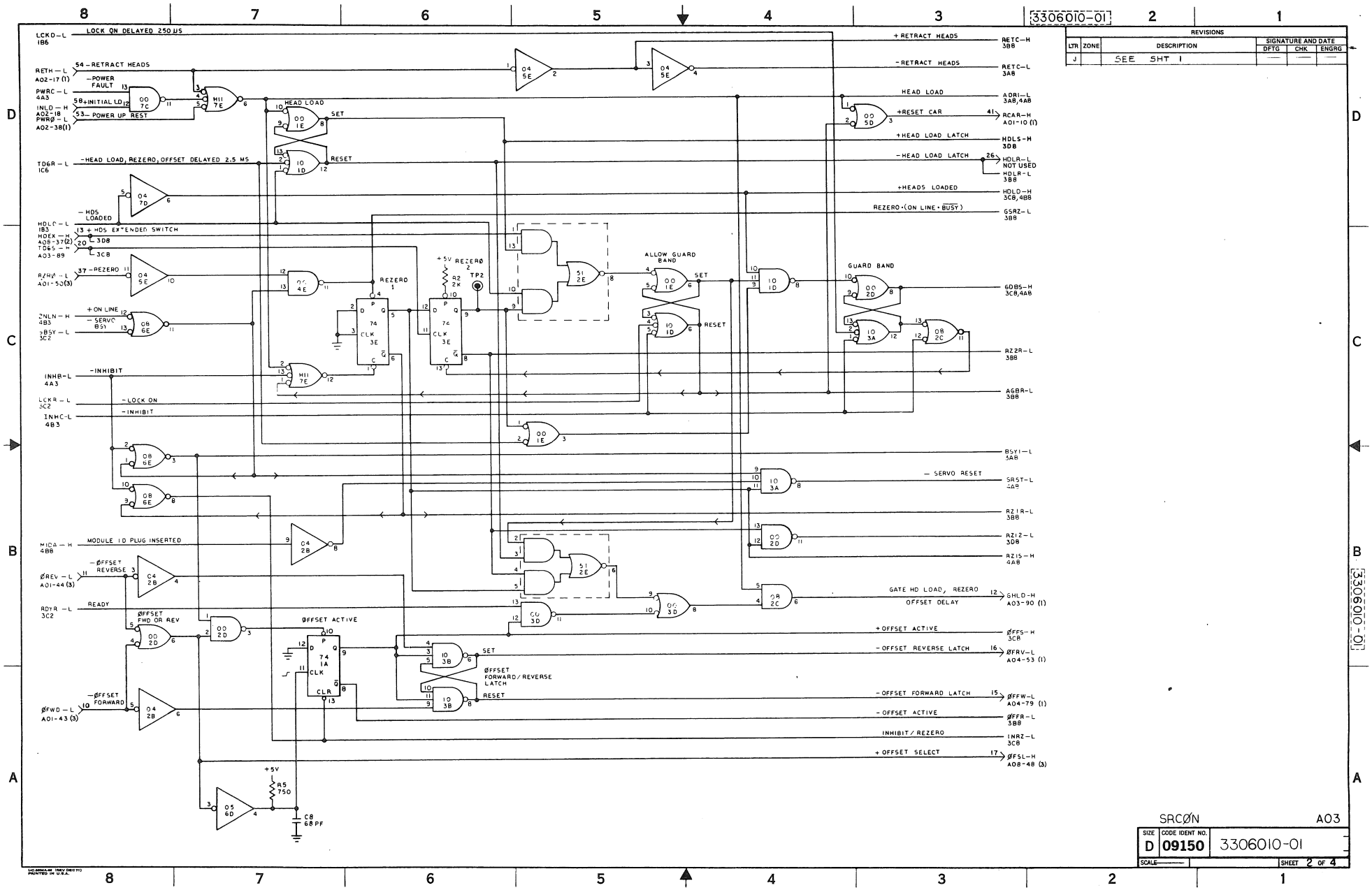
	GND	+5VDC
7442 - 8		16
9602 - 8		16

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES EXCEPT 9602.
2. REFERENCE ASSEMBLY: 3306013-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

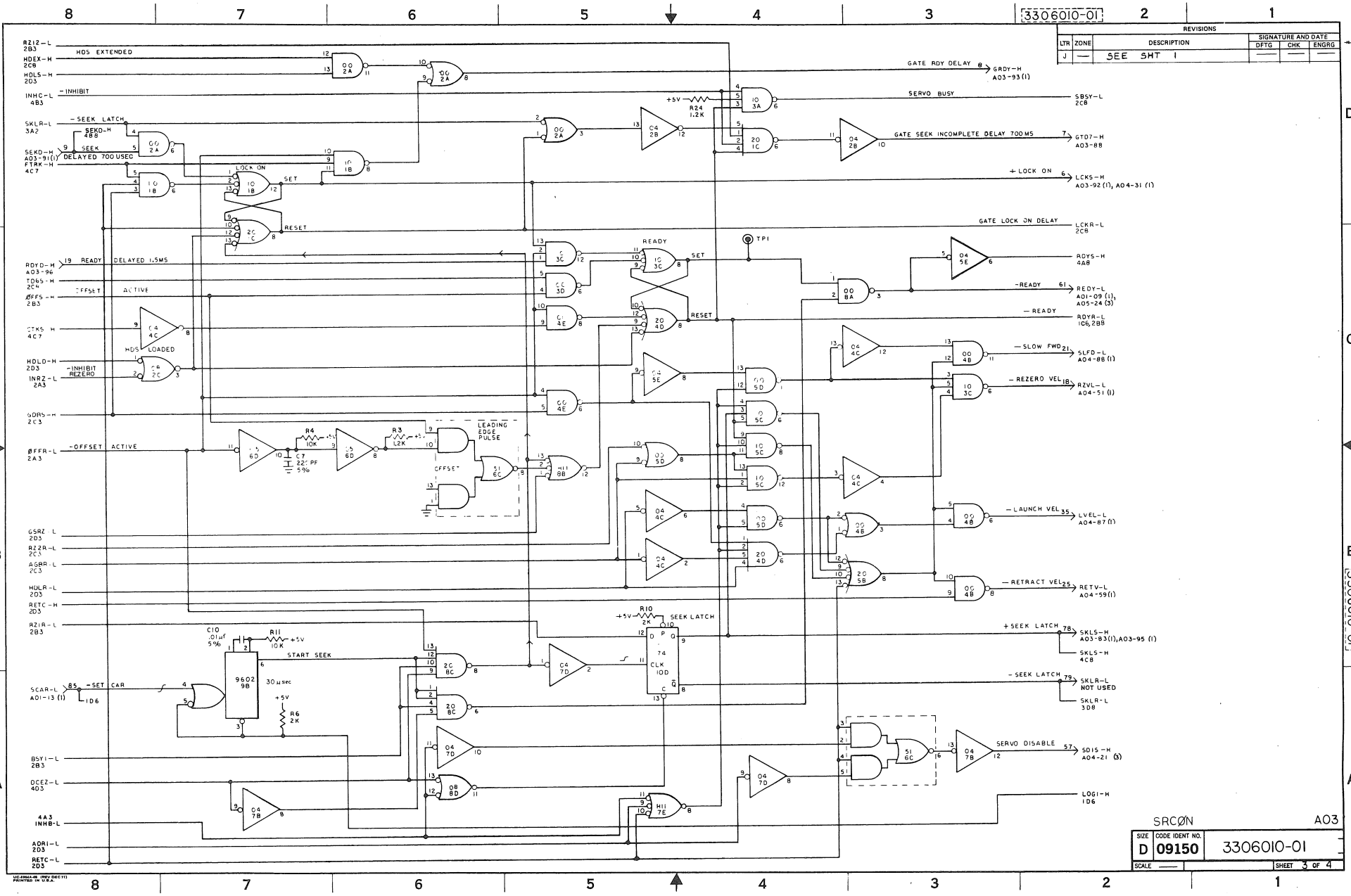
NOTES: UNLESS OTHERWISE SPECIFIED

UC-2254.68 (REV NOV 73) PRINTED IN U.S.A.

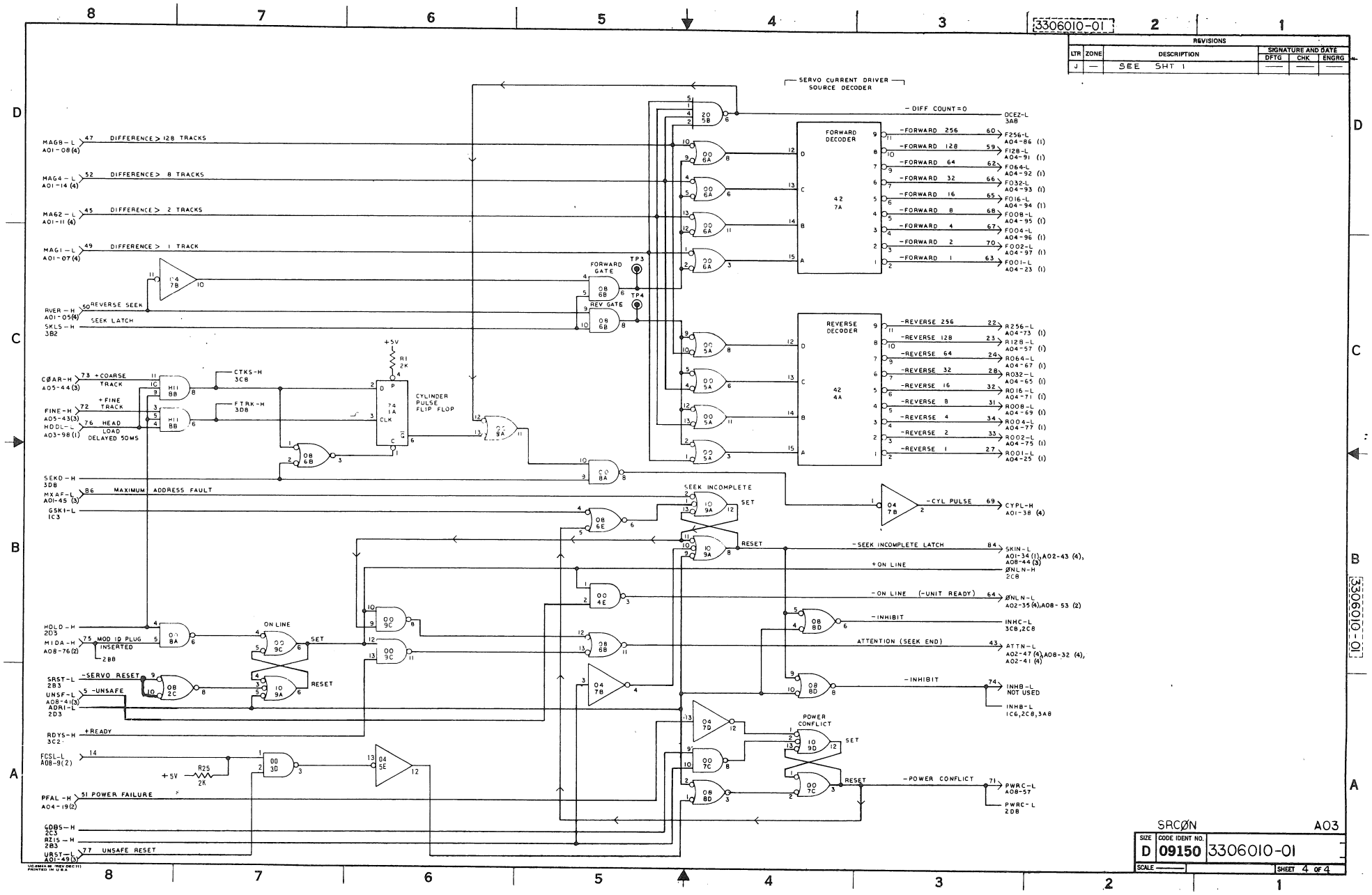
DM980

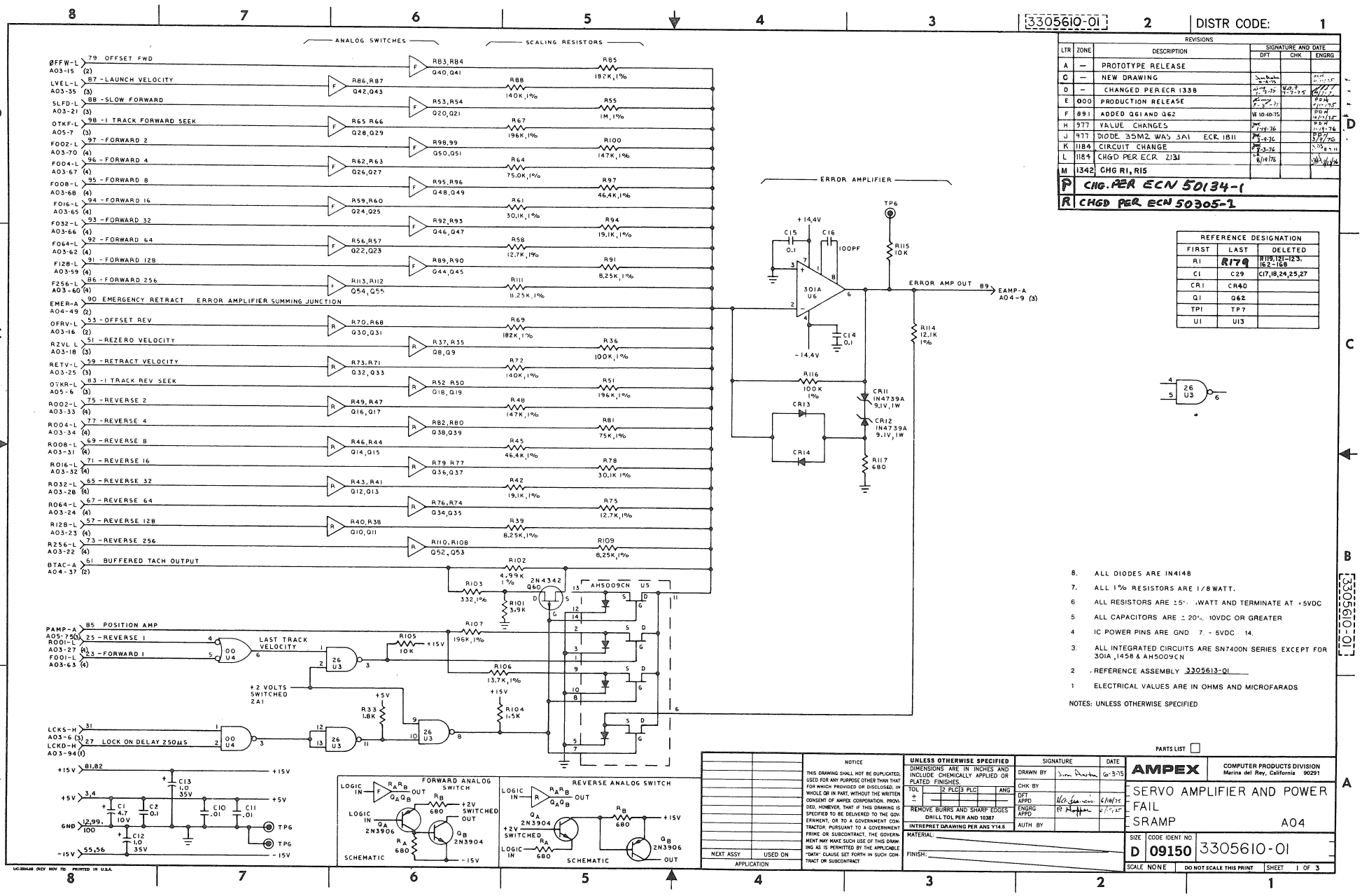

3306010-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
J SEE SHT 1
LCKO-L 1B6
LOCK ON DELAYED 250 µS
RETH-L A02-17 (1)
54-RETRACT HEADS
-POWER FAULT
PWRC-L 4A3
INLD-H A02-18
PWRØ-L A02-38(1)
58+INITIAL LD
53-POWER UP REST
TD6R-L 1C6
-HEAD LOAD, REZERO, OFFSET DELAYED 2.5 MS
HEAD LOAD
SET
RESET
-HDS LOADED
HDLD-L 1B3
HDEX-H A08-37(2)
TD6S-H A03-89
13 + HDS EXTENDED SWITCH
3D8
3C8
RZRA-L A01-50(3)
37-REZERO
REZERO 1
REZERØ 2
TP2
+5V
2NLN-H 4B5
BSY-L 3C2
+ON LINE
-SERVO BSY
INHB-L 4A3
-INHIBIT
LCKR-L 3C2
-LOCK ON
INHC-L 4B3
MIDA-H 4B8
MODULE ID PLUG INSERTED
ØREV-L A01-44 (3)
-ØFFSET REVERSE
RDYR-L 3C2
READY
ØFFSET FWD OR REV
ØFFSET ACTIVE
ØFWD-L A01-43 (3)
-ØFFSET FORWARD
ØFFSET FORWARD/REVERSE LATCH
+5V
R5 750
C8 68PF
ALLOW GUARD BAND
GUARD BAND
+RETRACT HEADS
RETC-H 3B8
-RETRACT HEADS
RETC-L 3A8
HEAD LOAD
ADRI-L 3A8,4A8
+RESET CAR
RCAR-H A01-10 (1)
+HEAD LOAD LATCH
HDLS-H 3D8
-HEAD LOAD LATCH
HDLR-L NOT USED
HDLR-L 3B8
+HEADS LOADED
HDLD-H 3C8,4B8
REZERO·(ON LINE·BUSY)
GSRZ-L 3B8
GDBS-H 3C8,4A8
AZ2R-L 3B8
AGBR-L 3B8
BSYI-L 3A8
-SERVO RESET
SRST-L 3A8
AZ1R-L 3B8
AZ12-L 3D8
AZ1S-H 4A8
GATE HD LOAD, REZERO OFFSET DELAY
GHLD-H A03-90 (1)
+OFFSET ACTIVE
ØFFS-H 3C8
-OFFSET REVERSE LATCH
ØFRV-L A04-53 (1)
-OFFSET FORWARD LATCH
ØFFW-L A04-79 (1)
-OFFSET ACTIVE
ØFFR-L 3B8
INHIBIT/REZERO
INRZ-L 3C8
+OFFSET SELECT
ØFSL-H A08-48 (3)
SRCØN A03
SIZE D
CODE IDENT NO. 09150
3306010-01
SCALE
SHEET 2 OF 4
3306010-01

DM980


3306010-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
J — SEE SHT 1
RZI2-L 2B3
HDS EXTENDED
HDEX-H 2C6
HDLS-H 2D3
INHC-L 4B3
-INHIBIT
SKLR-L 3A2
-SEEK LATCH
SEKD-H 4B8
SEKD-H A03-91(1) FTRK-H 4C7
SEEK DELAYED 700 USEC
LOCK ON
SET
RESET
GATE RDY DELAY
GRDY-H A03-93 (1)
SERVO BUSY
SBSY-L 2C8
GATE SEEK INCOMPLETE DELAY 700 MS
GTD7-H A03-88
+ LOCK ON
LCKS-H A03-92 (1), A04-31 (1)
GATE LOCK ON DELAY
LCKR-L 2C8
TP1
RDYD-H A03-96
19 READY DELAYED 1.5MS
READY
RDYS-H 4A8
-READY
READY-L A01-09 (1), A05-24 (3)
- READY
RDYR-L 1C6, 2B8
TOBS-H 2C4
OFFSET ACTIVE
ØFFS-H 2B3
STKS-H 4C7
HDS LOADED
HDLD-H 2D3
-INHIBIT REZERO
INRZ-L 2A3
GDRS-H 2C3
-SLOW FWD
SLFD-L A04-88 (1)
-REZERO VEL
RZVL-L A04-51 (1)
ØFFR-L 2A3
-OFFSET ACTIVE
LEADING EDGE PULSE
OFFSET
R4 10K
R3 1.2K
C7 22C PF 5%
-LAUNCH VEL
LVEL-L A04-87 (1)
-RETRACT VEL
RETV-L A04-59 (1)
GSRZ-L 2D3
RZ2R-L 2C3
AGBR-L 2C3
HDLR-L 2D3
RETC-H 2D3
AZ1R-L 2B3
R10 2K
SEEK LATCH
+SEEK LATCH
SKLS-H A03-83 (1), A03-95 (1)
SKLS-H 4C8
C10 .01μf 5%
R11 10K
START SEEK
9602 9B
30 μ sec
SCAR-L A01-13 (1)
-SET CAR
1D6
R6 2K
-SEEK LATCH
SKLR-L NOT USED
SKLR-L 3D8
SERVO DISABLE
SDIS-H A04-21 (3)
BSY1-L 2B3
OCEZ-L 4D3
LOGI-H 1D6
4A3 INHB-L
ADRI-L 2D3
RETC-L 2D3
SRCØN
A03
SIZE D
CODE IDENT NO. 09150
3306010-01
SCALE —
SHEET 3 OF 4
3306010-01

DM980


3306010-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
J — SEE SHT 1
SERVO CURRENT DRIVER SOURCE DECODER
- DIFF COUNT=0
OCEZ-L 3A8
MAG8-L A01-08 (4) 47 DIFFERENCE > 128 TRACKS
MAG4-L A01-14 (4) 52 DIFFERENCE > 8 TRACKS
MAG2-L A01-11 (4) 45 DIFFERENCE > 2 TRACKS
MAG1-L A01-07 (4) 49 DIFFERENCE > 1 TRACK
RVER-H A01-05 (4) 50 REVERSE SEEK
SKLS-H 3B2 SEEK LATCH
FORWARD DECODER
42 7A
-FORWARD 256 60 F256-L A04-86 (1)
-FORWARD 128 59 F128-L A04-91 (1)
-FORWARD 64 62 F064-L A04-92 (1)
-FORWARD 32 66 F032-L A04-93 (1)
-FORWARD 16 65 F016-L A04-94 (1)
-FORWARD 8 68 F008-L A04-95 (1)
-FORWARD 4 67 F004-L A04-96 (1)
-FORWARD 2 70 F002-L A04-97 (1)
-FORWARD 1 63 F001-L A04-23 (1)
FORWARD GATE
REV GATE
TP3
TP4
REVERSE DECODER
42 4A
-REVERSE 256 22 R256-L A04-73 (1)
-REVERSE 128 23 R128-L A04-57 (1)
-REVERSE 64 24 R064-L A04-67 (1)
-REVERSE 32 28 R032-L A04-65 (1)
-REVERSE 16 32 R016-L A04-71 (1)
-REVERSE 8 31 R008-L A04-69 (1)
-REVERSE 4 34 R004-L A04-77 (1)
-REVERSE 2 33 R002-L A04-75 (1)
-REVERSE 1 27 R001-L A04-25 (1)
+5V
R1 2K
CØAR-H A05-44 (3) 73 +COARSE TRACK
FINE-H A05-43 (3) 72 +FINE TRACK
HDDL-L A03-98 (1) 76 HEAD LOAD DELAYED 50MS
CTKS-H 3C8
FTRK-H 3D8
74 1A CLK
CYLINDER PULSE FLIP FLOP
SEKO-H 3D8
MXAF-L A01-45 (3) 86 MAXIMUM ADDRESS FAULT
GSKI-L 1C3
SEEK INCOMPLETE
SET
RESET
-CYL PULSE 69 CYPL-H A01-38 (4)
-SEEK INCOMPLETE LATCH 84 SKIN-L A01-34 (1), A02-43 (4), A08-44 (3)
+ON LINE ØNLN-H 2C8
-ON LINE (-UNIT READY) 64 ØNLN-L A02-35 (4), A08-53 (2)
-INHIBIT INHC-L 3C8, 2C8
ATTENTION (SEEK END) 43 ATTN-L A02-47 (4), A08-32 (4), A02-41 (4)
-INHIBIT 74 INHB-L NOT USED
INHB-L 1C6, 2C8, 3A8
HOLD-H 2D3
MIDA-H A08-76 (2) 75 MOD ID PLUG INSERTED 2B8
ON LINE
SET
RESET
SRST-L 2B3 -SERVO RESET
UNSF-L A08-41 (3) ADRI-L 2D3 5 -UNSAFE
RDYS-H 3C2 +READY
FCSL-L A08-9 (2) 14
+5V R25 2K
PFAL-H A04-19 (2) 51 POWER FAILURE
POWER CONFLICT
SET
RESET
-POWER CONFLICT 71 PWRC-L A08-57
PWRC-L 2D8
GOBS-H 2C3
AZIS-H 2B3
URST-L A01-49 (3) 77 UNSAFE RESET
SRCØN A03
SIZE D CODE IDENT NO. 09150 3306010-01
SCALE SHEET 4 OF 4



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE			
C	—	NEW DRAWING			
D	—	CHANGED PER ECR 1338	7-7-75		
E	000	PRODUCTION RELEASE	7-8-75		PDM 10/1/75
F	891	ADDED Q61 AND Q62	M 10-10-75		PDM 10/1/75
H	977	VALUE CHANGES	11-19-76		PDM 11-19-76
J	977	DIODE 3SM2 WAS 3A1 ECR 1811	12-3-76		12/7/76
K	1184	CIRCUIT CHANGE	2-3-76		2-3-77
L	1184	CHGD PER ECR 2131	8/14/76		8/14/76
M	1342	CHG R1, R15			
P		CHG. PER ECN 50134-1			
R		CHGD PER ECN 50305-1			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
R1	R179	R119,121-123, 162-168
C1	C29	C17,18,24,25,27
CR1	CR40	
Q1	Q62	
TP1	TP7	
U1	U13	

8. ALL DIODES ARE IN4148
7. ALL 1% RESISTORS ARE 1/8 WATT.
6. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC
5. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER
4. IC POWER PINS ARE GND 7, -5VDC 14.
3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES EXCEPT FOR 301A, 1458 & AH5009CN
2. REFERENCE ASSEMBLY 3305613-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NOTICE
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NEXT ASSY | USED ON | APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLCS | 3 PLCS | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5

SIGNATURE		DATE
DRAWN BY	Jim Austin	6-3-75
CHK BY		
DFT APPD	Wayne	6/16/75
ENGRG APPD	R Hopper	6/7/75
AUTH BY		

MATERIAL:
FINISH:

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

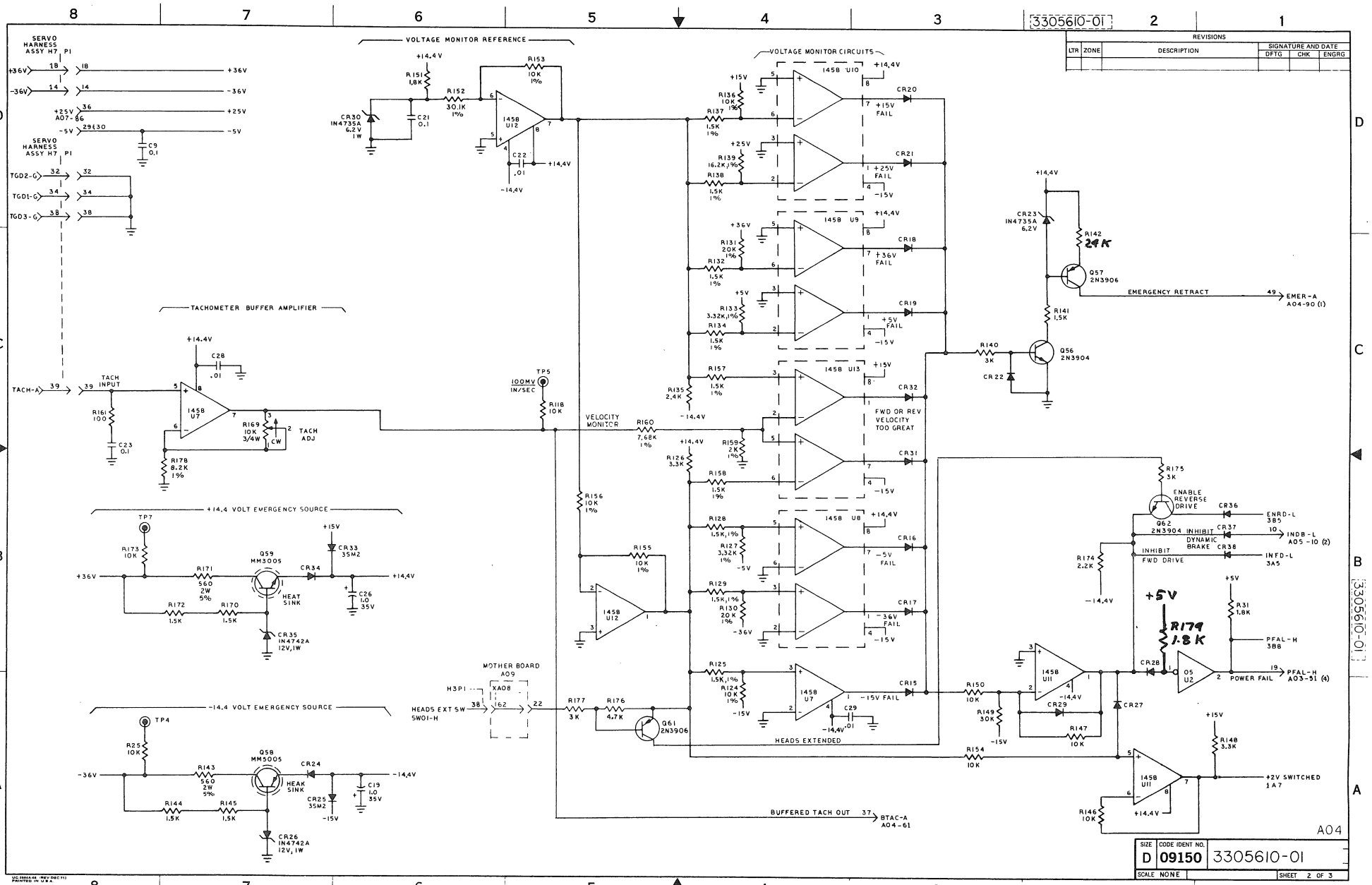
SERVO AMPLIFIER AND POWER FAIL SRAMP A04

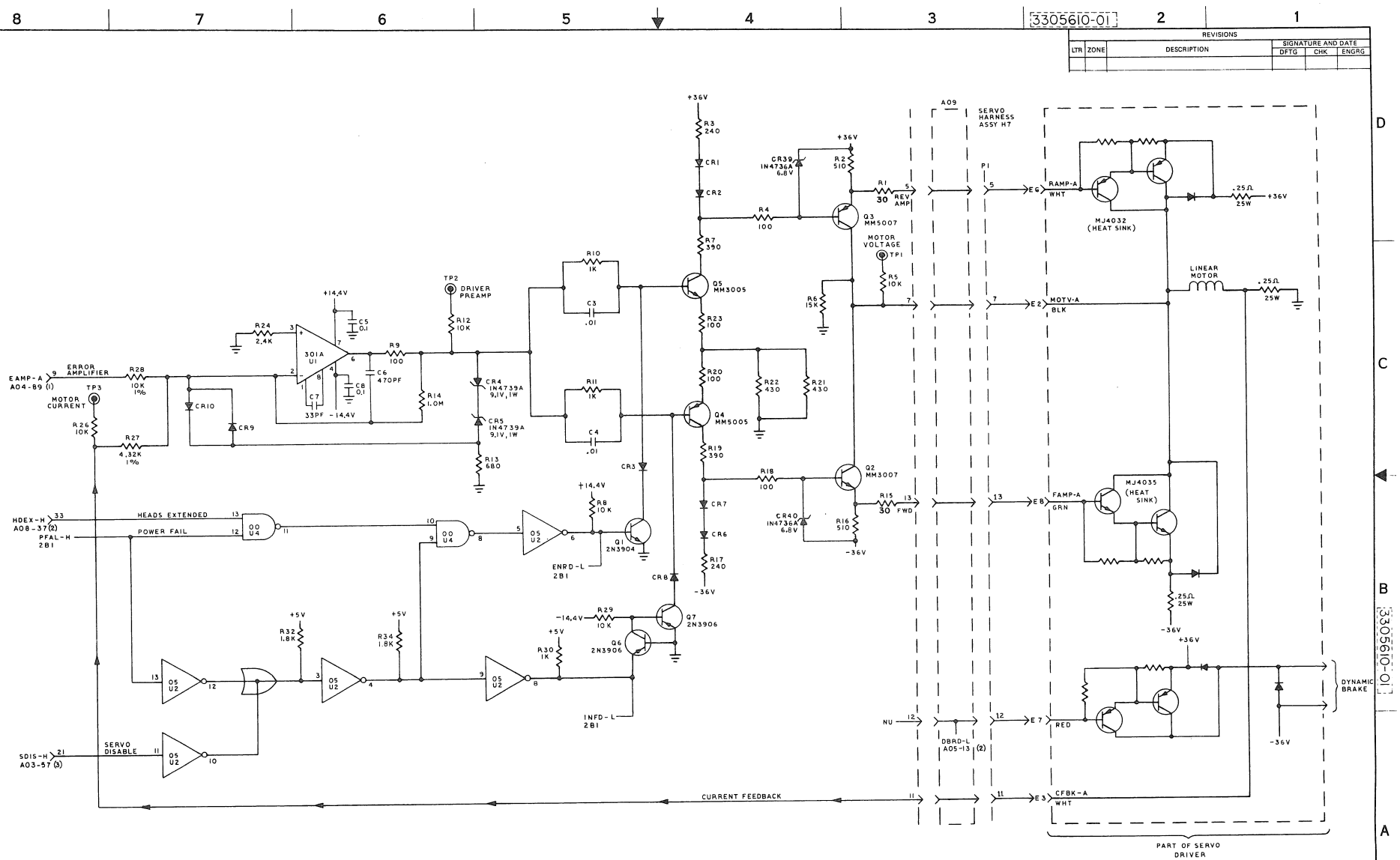
SIZE	CODE IDENT NO.	
D	09150	3305610-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 3

UC-330428 (REV NOV 75) PRINTED IN U.S.A.

JM940


3305610-01
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
SERVO HARNESS ASSY H7 P1
+36V
-36V
+25V A07-66
-5V
TGD2-G
TGD1-G
TGD3-G
VOLTAGE MONITOR REFERENCE
+14.4V
R151 1.8K
R152 30.1K 1%
R153 10K 1%
CR30 IN4735A 6.2V 1W
C21 0.1
C22 .01
1458 U12
-14.4V
VOLTAGE MONITOR CIRCUITS
1458 U10
1458 U9
1458 U13
1458 U8
1458 U12
1458 U7
R136 10K 1%
R137 1.5K 1%
R139 16.2K 1%
R138 1.5K 1%
R131 20K 1%
R132 1.5K 1%
R133 3.32K 1%
R134 1.5K 1%
R135 2.4K
R157 1.5K 1%
R126 3.3K
R159 2K 1%
R158 1.5K 1%
R128 1.5K 1%
R127 3.32K 1%
R129 1.5K 1%
R130 20K 1%
R125 1.5K 1%
R124 10K 1%
CR20
CR21
CR18
CR19
CR32
CR31
CR16
CR17
CR15
+15V FAIL
+25V FAIL
+36V FAIL
+5V FAIL
FWD OR REV VELOCITY TOO GREAT
-5V FAIL
-36V FAIL
-15V FAIL
TACHOMETER BUFFER AMPLIFIER
TACH-A
TACH INPUT
C28 .01
R161 100
C23 0.1
1458 U7
R169 10K 3/4W
TACH ADJ
R178 8.2K 1%
TP5
100MV IN/SEC
R118 10K
VELOCITY MONITOR
R160 7.68K 1%
R156 10K 1%
R155 10K 1%
+14.4 VOLT EMERGENCY SOURCE
TP7
R173 10K
Q59 MM3005
R171 560 2W 5%
CR34
CR33 35M2
C26 1.0 35V
R172 1.5K
R170 1.5K
HEAT SINK
CR35 IN4742A 12V,1W
-14.4 VOLT EMERGENCY SOURCE
TP4
R25 10K
Q58 MM5005
R143 560 2W 5%
CR24
C19 1.0 35V
R144 1.5K
R145 1.5K
HEAK SINK
CR25 35M2
CR26 IN4742A 12V,1W
MOTHER BOARD A09
H3P1
XA08
HEADS EXT SW SW01-H
R177 3K
R176 4.7K
Q61 2N3906
HEADS EXTENDED
CR23 IN4735A 6.2V
R142 24K
Q57 2N3906
EMERGENCY RETRACT
EMER-A A04-90 (1)
R141 1.5K
R140 3K
Q56 2N3904
CR22
R175 3K
ENABLE REVERSE DRIVE
Q62 2N3904
INHIBIT DYNAMIC BRAKE
INHIBIT FWD DRIVE
R174 2.2K
CR36
CR37
CR38
ENRD-L 3B5
INDB-L A05-10 (2)
INFD-L 3A5
+5V
R179 1.8K
R31 1.8K
PFAL-H 3B8
PFAL-H A03-51 (4)
POWER FAIL
O5 U2
CR28
CR27
CR29
R147 10K
R150 10K
R149 30K
R154 10K
1458 U11
R148 3.3K
R146 10K
+2V SWITCHED 1A7
BUFFERED TACH OUT
BTAC-A A04-61
A04
SIZE D
CODE IDENT NO. 09150
3305610-01
SCALE NONE
SHEET 2 OF 3
DM 940


3305610-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
+36V
R3 240
CR1
CR2
R4 100
R7 390
Q5 MM3005
R23 100
R20 100
R22 430
R21 430
Q4 MM5005
R19 390
CR3
CR7
CR6
R17 240
-36V
CR8
R18 100
Q2 MM3007
R15 30 FWD
CR40 IN4736A 6.8V
R16 510
-36V
CR39 IN4736A 6.8V
R2 510
R1 30 REV AMP
Q3 MM5007
R5 10K
MOTOR VOLTAGE
TP1
R6 15K
A09
SERVO HARNESS ASSY H7
P1
E6 RAMP-A WHT
E2 MOTV-A BLK
E8 FAMP-A GRN
E7 RED
E3 CFBK-A WHT
MJ4032 (HEAT SINK)
MJ4035 (HEAT SINK)
LINEAR MOTOR
.25Ω 25W
+36V
-36V
DYNAMIC BRAKE
NU
DBRD-L A05-13 (2)
CURRENT FEEDBACK
PART OF SERVO DRIVER
+14.4V
C5 0.1
R24 2.4K
301A U1
R9 100
C6 470PF
C7 33PF
C8 0.1
-14.4V
TP2 DRIVER PREAMP
R12 10K
R14 1.0M
R13 680
CR4 IN4739A 9.1V, 1W
CR5 IN4739A 9.1V, 1W
R10 1K
C3 .01
R11 1K
C4 .01
EAMP-A A04-89 (1)
ERROR AMPLIFIER
R28 10K 1%
TP3 MOTOR CURRENT
R26 10K
R27 4.32K 1%
CR10
CR9
HDEX-H A08-37 (2)
HEADS EXTENDED
PFAL-H 2B1
POWER FAIL
00 U4
05 U2
R8 10K
Q1 2N3904
ENRD-L 2B1
R29 10K
Q7 2N3906
Q6 2N3906
+5V
R32 1.8K
R34 1.8K
R30 1K
INFD-L 2B1
SDIS-H A03-57 (3)
SERVO DISABLE
A04
SIZE D
CODE IDENT NO. 09150
3305610-01
SCALE NONE
SHEET 3 OF 3

DM940

3306000-01

DISTR CODE:

REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE (ECR 1698)	1-20-76		1/21/76
B	000	DIODE 3SM2 WAS 3AI (ECR 1811)	3-4-76		3/4/76
C	1184	CIRCUIT CHANGE	5-3-76		
D	1184	CHGD PER ECR 2131	8/16/76		
E	1343	CHG R1, R15			
G		CHG PER ECN 50184-B			
H		CHGD PER ECN 50305-5			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
R1	R179	R119,121-123, 162-168
C1	C29	C17,18,24,25,27
CR1	CR40	
Q1	Q62	
TP1	TP7	
U1	U13	

ANALOG SWITCHES — SCALING RESISTORS

BFFW-L A03-15 (2) 79 OFFSET FWD — R83,R84 Q40,Q41 — R85 237K,1%
LVEL-L A03-35 (3) 87 -LAUNCH VELOCITY — R86,R87 Q42,Q43 — R88 140K,1% — R55 1M,1%
SLFD-L A03-21 (3) 88 -SLOW FORWARD — R53,R54 Q20,Q21 — R67 237K,1% — R100 196K,1%
OTKF-L A05-7 (3) 98 -1 TRACK FORWARD SEEK — R65 R66 Q28,Q29 — R64 124K,1% — R97 75K,1%
F002-L A03-70 (4) 97 -FORWARD 2 — R98,99 Q50,Q51 — R61 46.4K,1% — R94 30.1K,1%
F004-L A03-67 (4) 96 -FORWARD 4 — R62,R63 Q26,Q27 — R58 19.1K,1% — R91 12.7K,1%
F008-L A03-68 (4) 95 -FORWARD 8 — R95,R96 Q48,Q49 — R111 8.25K,1%
F016-L A03-65 (4) 94 -FORWARD 16 — R59,R60 Q24,Q25
F032-L A03-66 (4) 93 -FORWARD 32 — R92,R93 Q46,Q47
F064-L A03-62 (4) 92 -FORWARD 64 — R56,R57 Q22,Q23
F128-L A03-59 (4) 91 -FORWARD 128 — R89,R90 Q44,Q45
F256-L A03-60 (4) 86 -FORWARD 256 — R113,R112 Q54,Q55
EMER-A A04-49 (2) 90 EMERGENCY RETRACT — ERROR AMPLIFIER SUMMING JUNCTION

OFRV-L A03-16 (2) 53 -OFFSET REV — R70,R68 Q30,Q31 — R69 237K,1%
RZVL L A03-18 (3) 51 -REZERO VELOCITY — R37,R35 Q8,Q9 — R72 140K,1% — R36 100K,1%
RETV-L A03-25 (3) 59 -RETRACT VELOCITY — R73,R71 Q32,Q33 — R48 196K,1% — R51 237K,1%
OTKR-L A05-6 (3) 83 -1 TRACK REV SEEK — R52 R50 Q18,Q19 — R82,R80 Q38,Q39 — R81 124K,1%
R002-L A03-33 (4) 75 -REVERSE 2 — R49,R47 Q16,Q17 — R45 75K,1% — R78 46.4K 1%
R004-L A03-34 (4) 77 -REVERSE 4 — R46,R44 Q14,Q15 — R42 30.1K,1% — R75 19.1K,1%
R008-L A03-31 (4) 69 -REVERSE 8 — R79 R77 Q36,Q37 — R39 12.7K,1%
R016-L A03-32 (4) 71 -REVERSE 16 — R43,R41 Q12,Q13 — R109 8.25K,1%
R032-L A03-28 (4) 65 -REVERSE 32 — R76,R74 Q34,Q35
R064-L A03-24 (4) 67 -REVERSE 64 — R40,R38 Q10,Q11
R128-L A03-23 (4) 57 -REVERSE 128 — R110,R108 Q52,Q53
R256-L A03-22 (4) 73 -REVERSE 256
BTAC-A A04-37 (2) 61 BUFFERED TACH OUTPUT — R102 4.99K 1% — 2N4342 Q60 — AH5009CN U5

ERROR AMPLIFIER

TP6 — +14.4V — C15 0.1 — C16 100PF — R115 10K — 301A U6 — ERROR AMP OUT 89 → EAMP-A A04-9 (3) — C14 0.1 — -14.4V — R114 12.1K 1% — R116 100K 1% — CR11 IN4739A 9.1V,1W — CR12 IN4739A 9.1V,1W — CR13 — CR14 — R117 680

PAMP-A A05-7 (3) 85 POSITION AMP
R001-L A03-27 (4) 25 -REVERSE 1
F001-L A03-63 (4) 23 -FORWARD 1
LAST TRACK VELOCITY — 00 U4 — 26 U3 — R105 10K +15V — R107 220K — R106 19.1K,1%
+2 VOLTS SWITCHED 2A1 — +5V — R33 1.8K — +15V — R104 1.5K
LCKS-H A03-6 (3) 31
LCKD-H A03-94 (1) 27 LOCK ON DELAY 250µS

+15V 81,82 — +5V 3,4 — GND 12,99,100 — -15V 55,56 — C1 4.7 — C2 0.1 — C10 .01 — C11 .01 — C12 1.0 — C13 1.0 — TP6 — TP6

FORWARD ANALOG SWITCH — LOGIC IN — R_A R_B — Q_A Q_B — OUT — R_B 680 — +2V SWITCHED OUT — Q_A 2N3906 — Q_B 2N3904 — R_A 680 — -15V — SCHEMATIC

REVERSE ANALOG SWITCH — LOGIC IN — R_A R_B — Q_A Q_B — OUT — +2V SWITCHED — Q_A 2N3904 — R_A 680 — LOGIC IN — R_B 680 — +15V — Q_B 2N3906 — OUT — SCHEMATIC

26 U3 — 4 — 5 — 6

8. ALL DIODES ARE IN4148
7. ALL 1% RESISTORS ARE 1/8 WATT.
6 ALL RESISTORS ARE ± 5 % WATT AND TERMINATE AT -5VDC
5 ALL CAPACITORS ARE ± 20 % 10VDC OR GREATER
4 IC POWER PINS ARE GND 7 -5VDC 14
3 ALL INTEGRATED CIRCUITS ARE SN7400N SERIES EXCEPT FOR 301A, 1458 & AH5009CN
2 REFERENCE ASSEMBLY 3306003-01
1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NEXT ASSY | USED ON
APPLICATION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5

SIGNATURE		DATE
DRAWN BY		6-3-75
CHK BY		
DFT APPD	H. A. Stevens	1-22-76
ENGRG APPD	P. Hoppe	1/21/76
AUTH BY		

MATERIAL:
FINISH:

AMPEX — COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

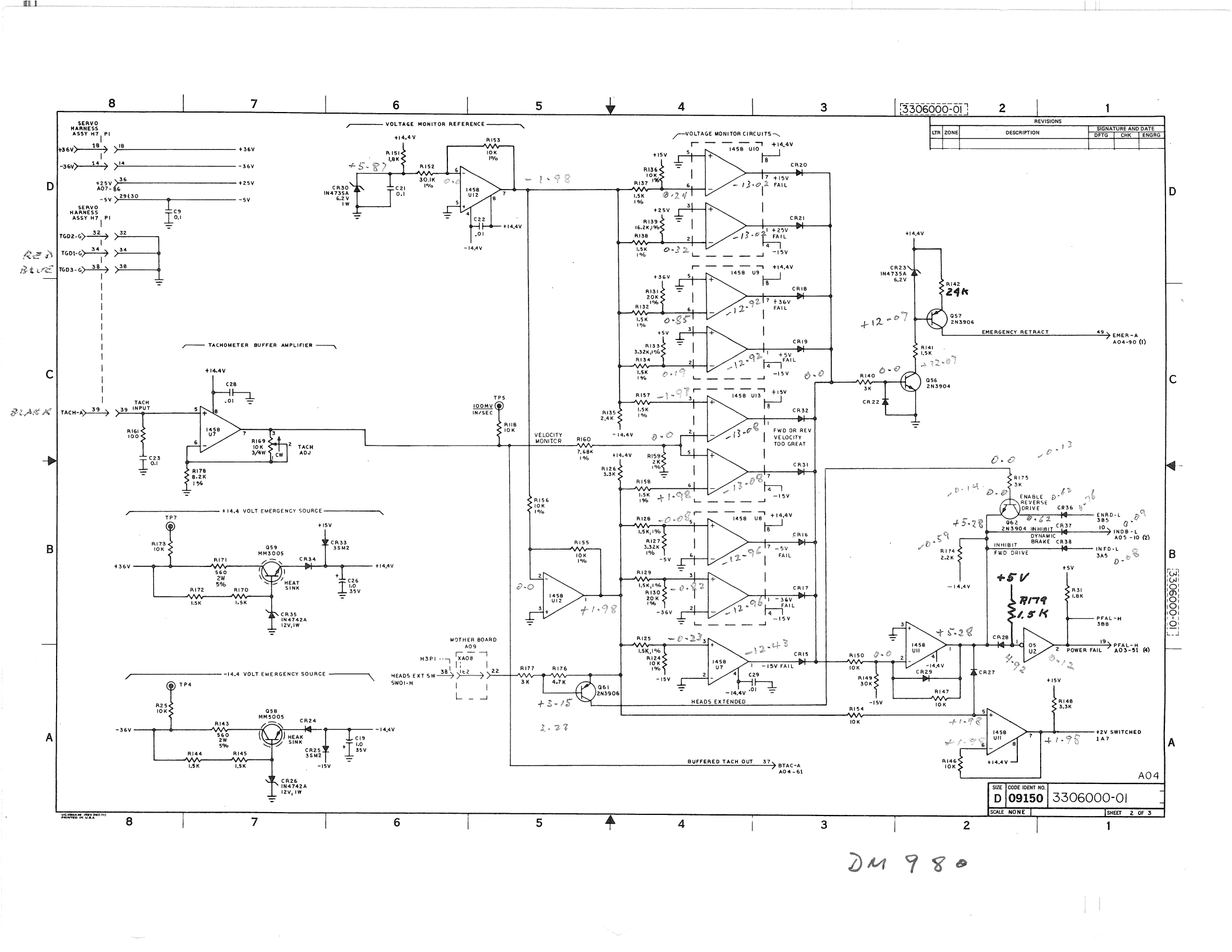
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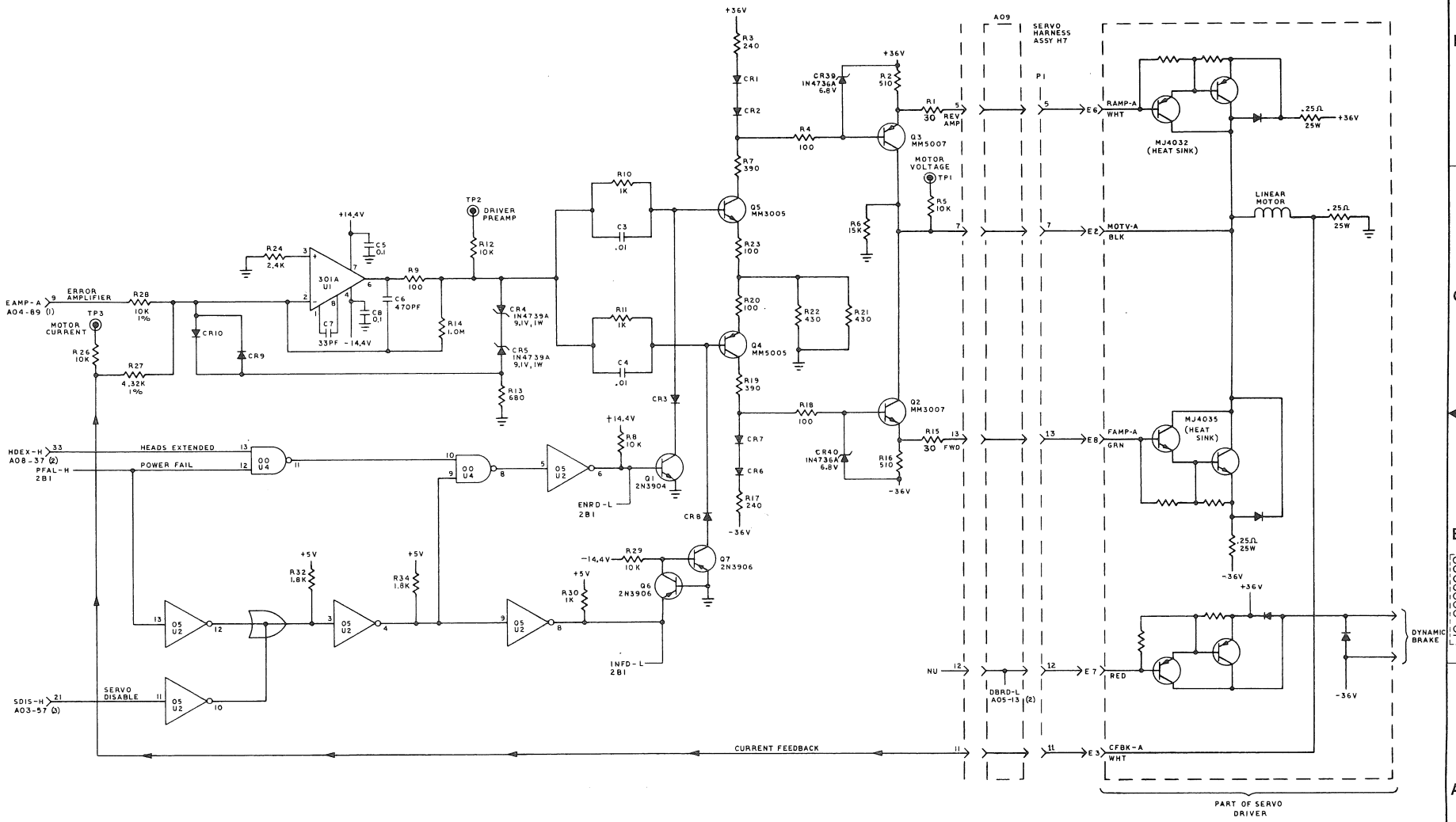
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D	09150	

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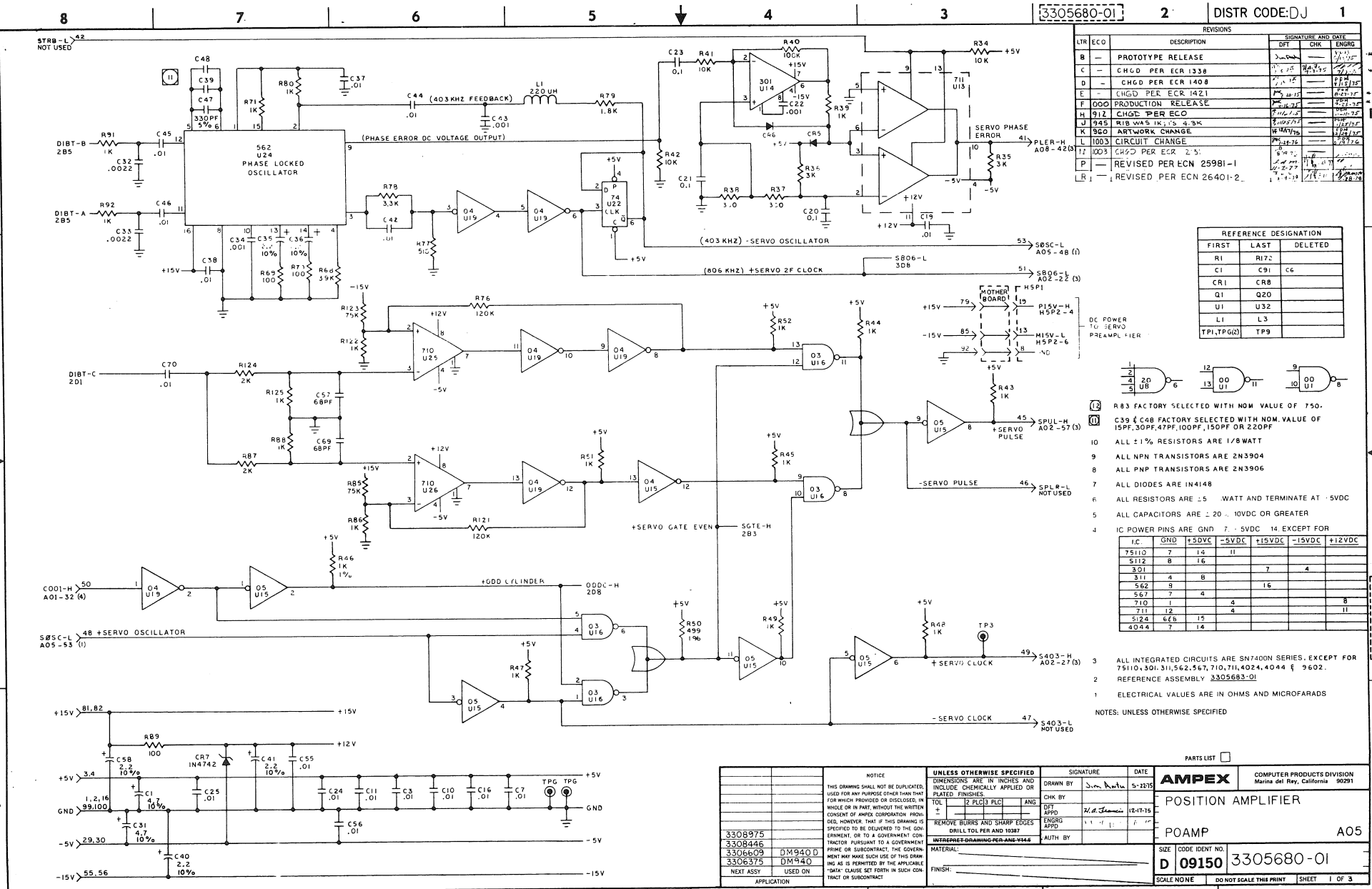
UC-205A6 (REV NOV 72) PRINTED IN U.S.A.

DM 980


3306000-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
SERVO HARNESS ASSY H7 P1
+36V
-36V
+25V A07-86
-5V
TGD2-G
TGD1-G
TGD3-G
C9 0.1
VOLTAGE MONITOR REFERENCE
+14.4V
R151 1.8K
CR30 IN4735A 6.2V 1W
R152 30.1K 1%
R153 10K 1%
1458 U12
C21 0.1
C22 .01
-14.4V
VOLTAGE MONITOR CIRCUITS
1458 U10
1458 U9
1458 U13
1458 U8
1458 U7
R136 10K 1%
R137 1.5K 1%
R139 16.2K,1%
R138 1.5K 1%
R131 20K 1%
R132 1.5K 1%
R133 3.32K,1%
R134 1.5K 1%
R157 1.5K 1%
R135 2.4K 1%
R126 3.3K
R158 1.5K 1%
R128 1.5K,1%
R127 3.32K 1%
R129 1.5K,1%
R130 20K 1%
R125 1.5K,1%
R124 10K 1%
CR20 +15V FAIL
CR21 +25V FAIL
CR18 +36V FAIL
CR19 +5V FAIL
CR32 FWD OR REV VELOCITY TOO GREAT
CR31
CR16 -5V FAIL
CR17 -36V FAIL
CR15 -15V FAIL
HEADS EXTENDED
CR23 IN4735A 6.2V
R142 24K
Q57 2N3906
EMERGENCY RETRACT
49 EMER-A A04-90 (1)
R141 1.5K
Q56 2N3904
R140 3K
CR22
TACHOMETER BUFFER AMPLIFIER
TACH-A 39
TACH INPUT
C28 .01
R161 100
C23 0.1
R178 8.2K 1%
R169 10K 3/4W CW
TACH ADJ
TP5 100MV IN/SEC
R118 10K
VELOCITY MONITOR
R160 7.68K 1%
R156 10K 1%
R155 10K 1%
+14.4 VOLT EMERGENCY SOURCE
TP7
R173 10K
Q59 MM3005
R171 560 2W 5%
R172 1.5K
R170 1.5K
CR34
CR33 3SM2
C26 1.0 35V
HEAT SINK
CR35 IN4742A 12V,1W
-14.4 VOLT EMERGENCY SOURCE
TP4
R25 10K
Q58 MM3005
R143 560 2W 5%
R144 1.5K
R145 1.5K
CR24
CR25 3SM2
C19 1.0 35V
CR26 IN4742A 12V,1W
HEAK SINK
MOTHER BOARD A09
H3P1
XA08
HEADS EXT SW SW01-H 38
22
R177 3K
R176 4.7K
Q61 2N3906
BUFFERED TACH OUT 37 BTAC-A A04-61
R175 3K
ENABLE REVERSE DRIVE
Q62 2N3904 INHIBIT
CR36
CR37
CR38
DYNAMIC BRAKE
INHIBIT FWD DRIVE
R174 2.2K
ENRD-L 3B5
INDB-L A05-10 (2)
INFD-L 3A5
+5V
R179 1.5K
R31 1.8K
PFAL-H 3B8
CR28
POWER FAIL 19 PFAL-H A03-51 (4)
R150 10K
R149 30K
R147 10K
CR29
CR27
R154 10K
R148 3.3K
+2V SWITCHED 1A7
R146 10K
A04
SIZE D
CODE IDENT NO. 09150
3306000-01
SCALE NONE
SHEET 2 OF 3


3306000-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
+36V
R3 240
CR1
CR2
R7 390
Q5 MM3005
R23 100
R20 100
R22 430
R21 430
Q4 MM5005
R19 390
CR7
CR6
R17 240
-36V
CR3
CR8
R10 1K
C3 .01
R11 1K
C4 .01
TP2 DRIVER PREAMP
R12 10K
+14.4V
R24 2.4K
C5 0.1
301A U1
R9 100
C6 470PF
C7 33PF
C8 0.1
-14.4V
R14 1.0M
CR4 IN4739A 9.1V, 1W
CR5 IN4739A 9.1V, 1W
R13 680
ERROR AMPLIFIER
EAMP-A A04-89 (1)
R28 10K 1%
TP3 MOTOR CURRENT
R26 10K
R27 4.32K 1%
CR10
CR9
HDEX-H A08-37 (2)
HEADS EXTENDED
PFAL-H 2B1
POWER FAIL
00 U4
05 U2
R8 10K
Q1 2N3904
ENRD-L 2B1
+5V
R32 1.8K
R34 1.8K
R30 1K
R29 10K
Q6 2N3906
Q7 2N3906
INFD-L 2B1
SDIS-H A03-57 (3)
SERVO DISABLE
CR39 IN4736A 6.8V
CR40 IN4736A 6.8V
R2 510
R16 510
R1 30 REV AMP
R15 30 FWD
R4 100
R18 100
Q3 MM5007
Q2 MM3007
R6 15K
MOTOR VOLTAGE
TP1
R5 10K
A09
SERVO HARNESS ASSY H7
P1
RAMP-A WHT
MJ4032 (HEAT SINK)
.25Ω 25W
LINEAR MOTOR
MOTV-A BLK
FAMP-A GRN
MJ4035 (HEAT SINK)
DYNAMIC BRAKE
NU
DBRD-L A05-13 (2)
RED
CFBK-A WHT
CURRENT FEEDBACK
PART OF SERVO DRIVER
A04
SIZE D
CODE IDENT NO. 09150
3306000-01
SCALE NONE
SHEET 3 OF 3
3306000-01 F1

DM 980



REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
B	—	PROTOTYPE RELEASE			
C	—	CHGD PER ECR 1338			
D	—	CHGD PER ECR 1408			
E	—	CHGD PER ECR 1421			
F	000	PRODUCTION RELEASE			
H	912	CHGE PER ECO			
J	945	R18 WAS 1K, IS 4.3K			
K	960	ARTWORK CHANGE			
L	1003	CIRCUIT CHANGE			
M	1003	CHGD PER ECR 2-3-			
P	—	REVISED PER ECN 25981-1			
R	—	REVISED PER ECN 26401-2			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
R1	R172	
C1	C91	C6
CR1	CR8	
Q1	Q20	
U1	U32	
L1	L3	
TP1,TPG(2)	TP9	

I.C.	GND	+5VDC	-5VDC	+15VDC	-15VDC	+12VDC
75110	7	14	11			
5112	8	16				
301				7	4	
311	4	8				
562	9			16		
567	7	4				
710	1		4			8
711	12		4			11
5124	6&8	15				
4044	7	14				

(12) R83 FACTORY SELECTED WITH NOM VALUE OF 750.

(11) C39 & C48 FACTORY SELECTED WITH NOM. VALUE OF 15PF, 30PF, 47PF, 100PF, 150PF OR 220PF

10 ALL ±1% RESISTORS ARE 1/8 WATT

9 ALL NPN TRANSISTORS ARE 2N3904

8 ALL PNP TRANSISTORS ARE 2N3906

7 ALL DIODES ARE IN4148

6 ALL RESISTORS ARE ±5% WATT AND TERMINATE AT +5VDC

5 ALL CAPACITORS ARE ± 20% 10VDC OR GREATER

4 IC POWER PINS ARE GND 7, +5VDC 14, EXCEPT FOR

3 ALL INTEGRATED CIRCUITS ARE SN7400N SERIES, EXCEPT FOR 75110, 301, 311, 562, 567, 710, 711, 4024, 4044 & 9602.

2 REFERENCE ASSEMBLY 3305683-01

1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

3308975	
3308446	
3306609	DM940D
3306375	DM940
NEXT ASSY	USED ON

APPLICATION

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TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
~~INTREPRET DRAWING PER ANS Y14.5~~
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	Jim Martin	5-22-75
CHK BY		
DFT APPD	M. A. Johnson	12-17-75
ENGRG APPD		
AUTH BY		

PARTS LIST ☐

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

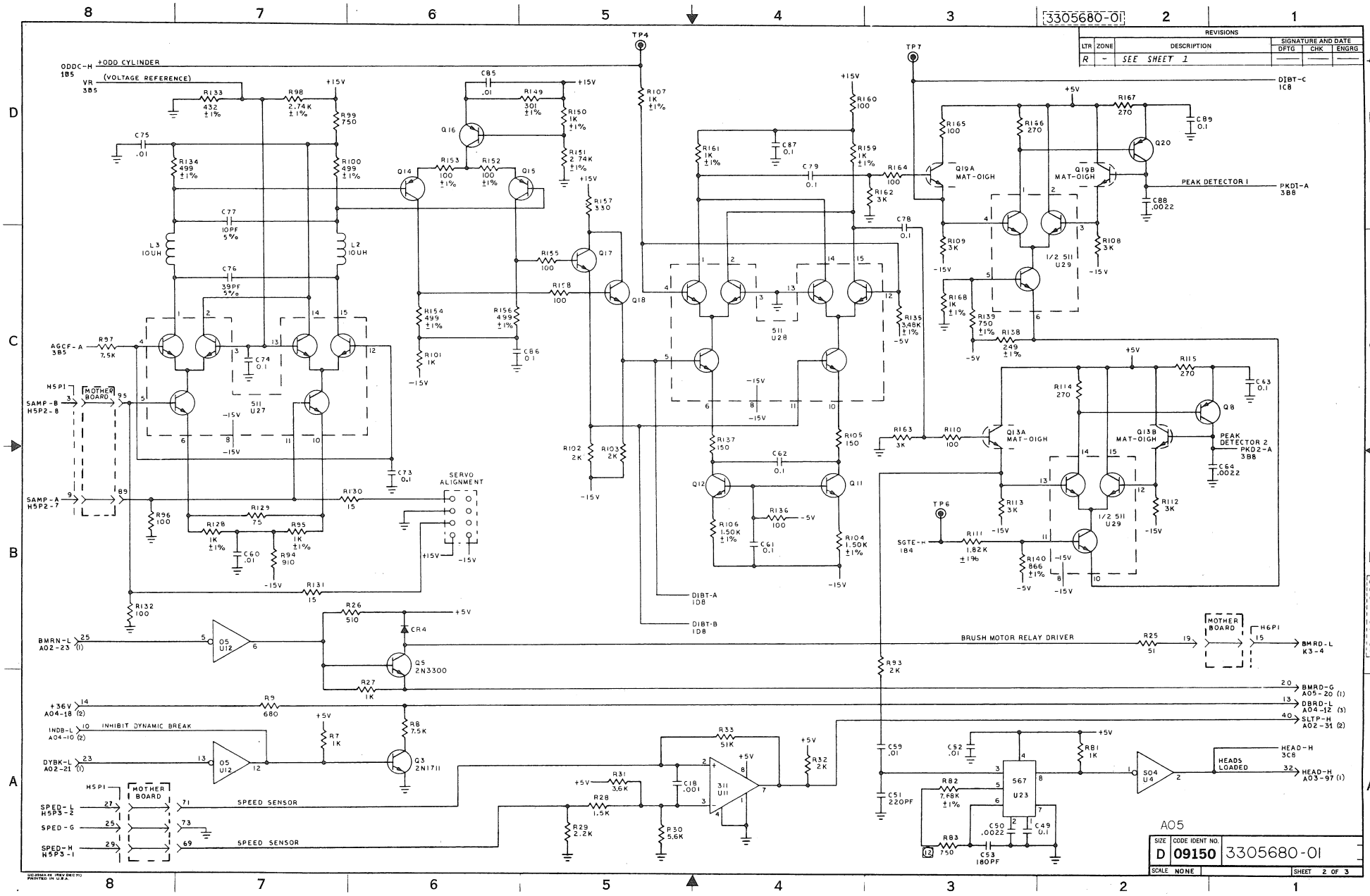
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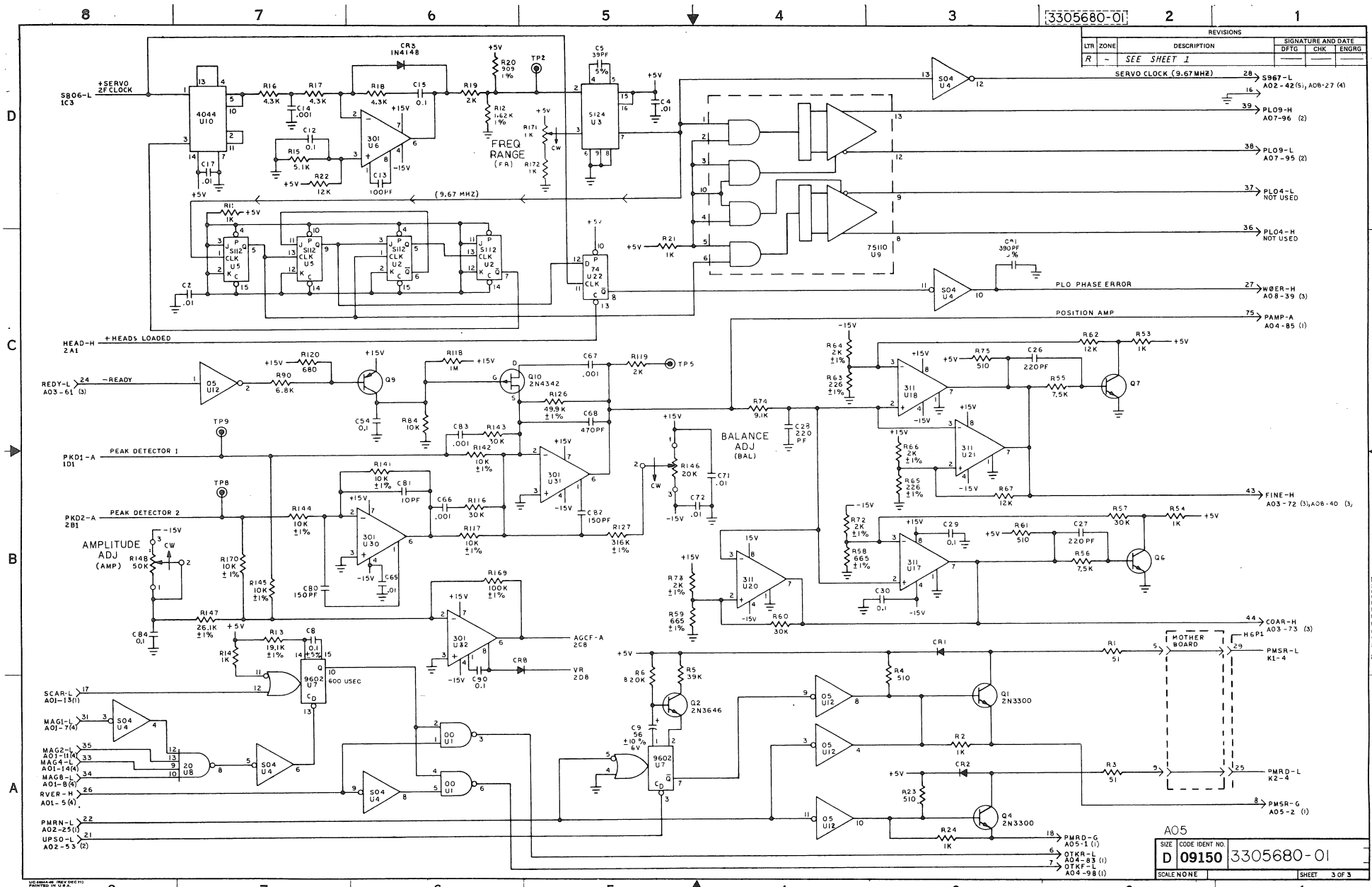
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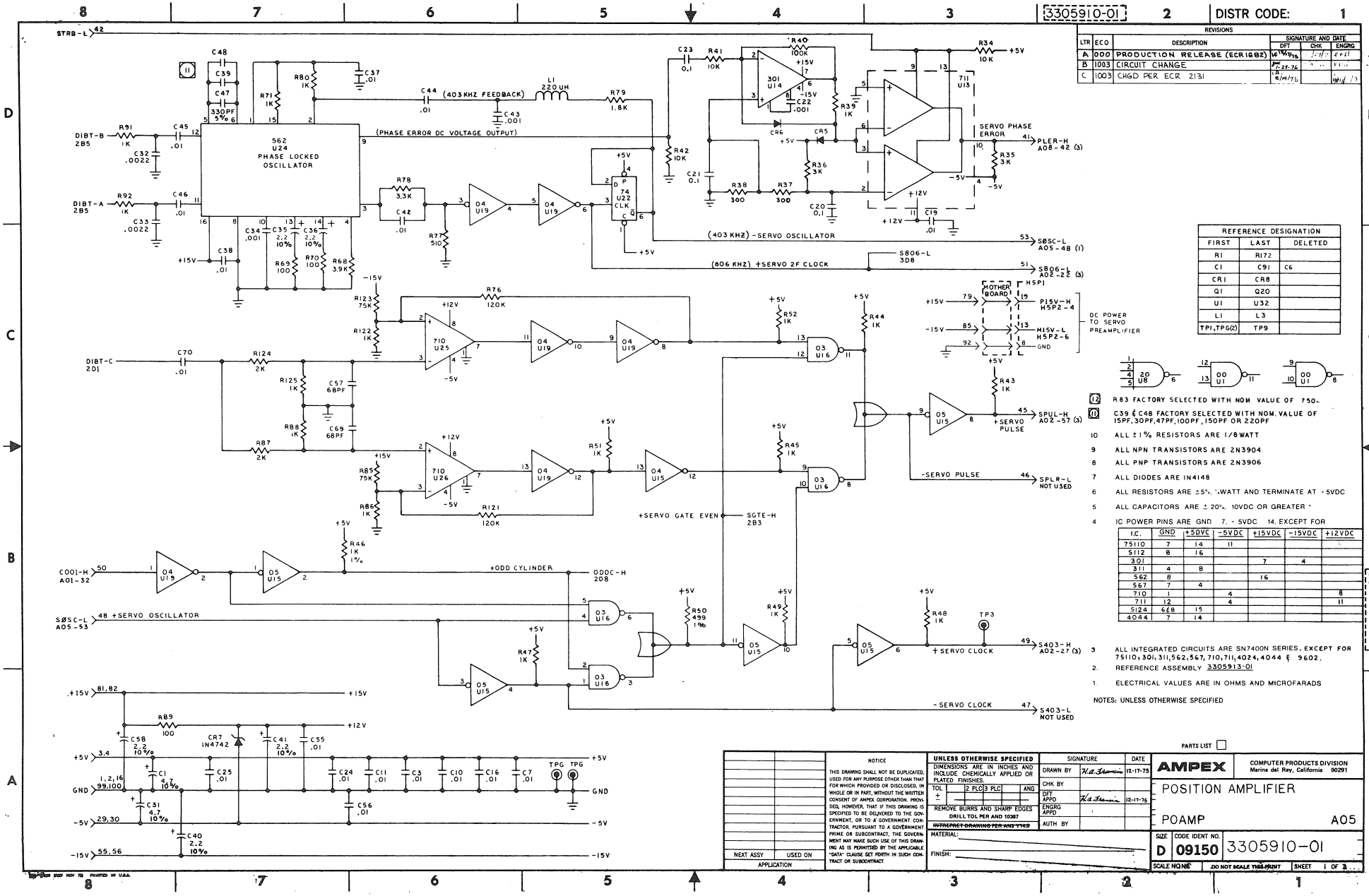
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D	09150	3305680-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 3

3305680-01


3305680-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
R - SEE SHEET 1
ODDC-H 185 +ODD CYLINDER
VR 385 (VOLTAGE REFERENCE)
TP4
TP7
DIBT-C 1C8
PEAK DETECTOR 1
PKDT-A 3B8
PEAK DETECTOR 2
PKD2-A 3B8
AGCF-A 385
SAMP-B H5P2-8
SAMP-A H5P2-7
H5P1
MOTHER BOARD
SERVO ALIGNMENT
DIBT-A 1D8
DIBT-B 1D8
BRUSH MOTOR RELAY DRIVER
BMRN-L A02-23 (1)
BMRD-L K3-4
BMRD-G A05-20 (1)
DBRD-L A04-12 (3)
SLTP-H A02-31 (2)
+36V A04-18 (2)
INDB-L A04-10 (2)
INHIBIT DYNAMIC BREAK
DYBK-L A02-21 (1)
SPED-L H5P3-2
SPED-G
SPED-H H5P3-1
SPEED SENSOR
SGTE-H 1B4
HEAD-H 3C8
HEADS LOADED
HEAD-H A03-97 (1)
A05
SIZE D
CODE IDENT NO. 09150
3305680-01
SCALE NONE
SHEET 2 OF 3


3305680-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
R - SEE SHEET 1
SERVO CLOCK (9.67MHZ)
+SERVO 2F CLOCK
S806-L 1C3
4044 U10
CR3 IN4148
FREQ RANGE (FR)
5124 U3
S04 U4
75110 U9
(9.67 MHZ)
+HEADS LOADED
HEAD-H 2A1
PLO PHASE ERROR
POSITION AMP
PEAK DETECTOR 1
PKD1-A 1D1
PEAK DETECTOR 2
PKD2-A 2B1
AMPLITUDE ADJ (AMP)
BALANCE ADJ (BAL)
READY-L A03-61 (3)
-READY
SCAR-L A01-13(1)
MAG1-L A01-7(4)
MAG2-L A01-11(4)
MAG4-L A01-14(4)
MAG8-L A01-8(4)
RVER-H A01-5(4)
PMRN-L A02-25(1)
UPSO-L A02-53 (2)
S967-L A02-42(5), A08-27 (4)
PLO9-H A07-96 (2)
PLO9-L A07-95 (2)
PLO4-L NOT USED
PLO4-H NOT USED
WØER-H A08-39 (3)
PAMP-A A04-85 (1)
FINE-H A03-72 (3), A08-40 (3)
COAR-H A03-73 (3)
AGCF-A 2C8
VR 2D8
PMSR-L K1-4
PMRD-L K2-4
PMSR-G A05-2 (1)
PMRD-G A05-1 (1)
OTKR-L A04-83 (1)
OTKF-L A04-98 (1)
MOTHER BOARD
A05
SIZE D
CODE IDENT NO. 09150
3305680-01
SCALE NONE
SHEET 3 OF 3



REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE (ECR1682)	12-17-75		
B	1003	CIRCUIT CHANGE	12-27-76		
C	1003	CHGD PER ECR 2131	8/19/76		

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
R1	R172	
C1	C91	C6
CR1	CR8	
Q1	Q20	
U1	U32	
L1	L3	
TP1, TPG(2)	TP9	

12 R83 FACTORY SELECTED WITH NOM VALUE OF 750Ω

11 C39 & C48 FACTORY SELECTED WITH NOM. VALUE OF 15PF, 30PF, 47PF, 100PF, 150PF OR 220PF

10 ALL ±1% RESISTORS ARE 1/8 WATT

9 ALL NPN TRANSISTORS ARE 2N3904

8 ALL PNP TRANSISTORS ARE 2N3906

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6 ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT -5VDC

5 ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER

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I.C.	GND	+5DVC	-5VDC	+15VDC	-15VDC	+12VDC
75110	7	14	11			
5112	8	16				
301				7	4	
311	4	8				
562	8			16		
567	7	4				
710	1		4			8
711	12		4			11
5124	668	15				
4044	7	14				

3 ALL INTEGRATED CIRCUITS ARE SN7400N SERIES, EXCEPT FOR 75110, 301, 311, 562, 567, 710, 711, 4024, 4044 & 9602.

2. REFERENCE ASSEMBLY 3305913-01

1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

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TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
~~INTERPRET DRAWING PER ANSI Y14.5~~
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	H.A. Flamm	12-17-75
CHK BY		
DFT APPD	H.A. Flamm	12-17-75
ENGRG APPD		
AUTH BY		

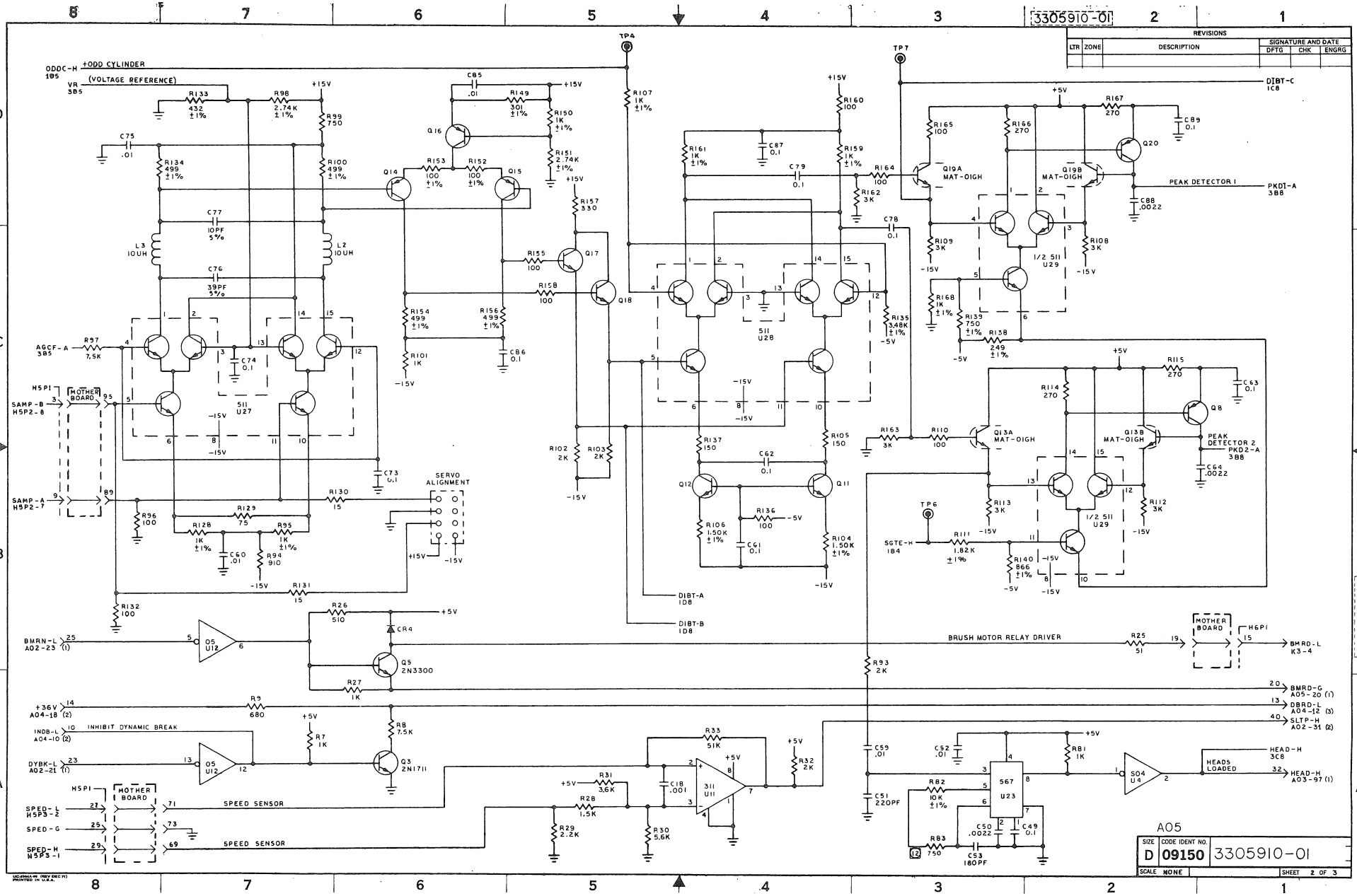
NEXT ASSY | USED ON
APPLICATION

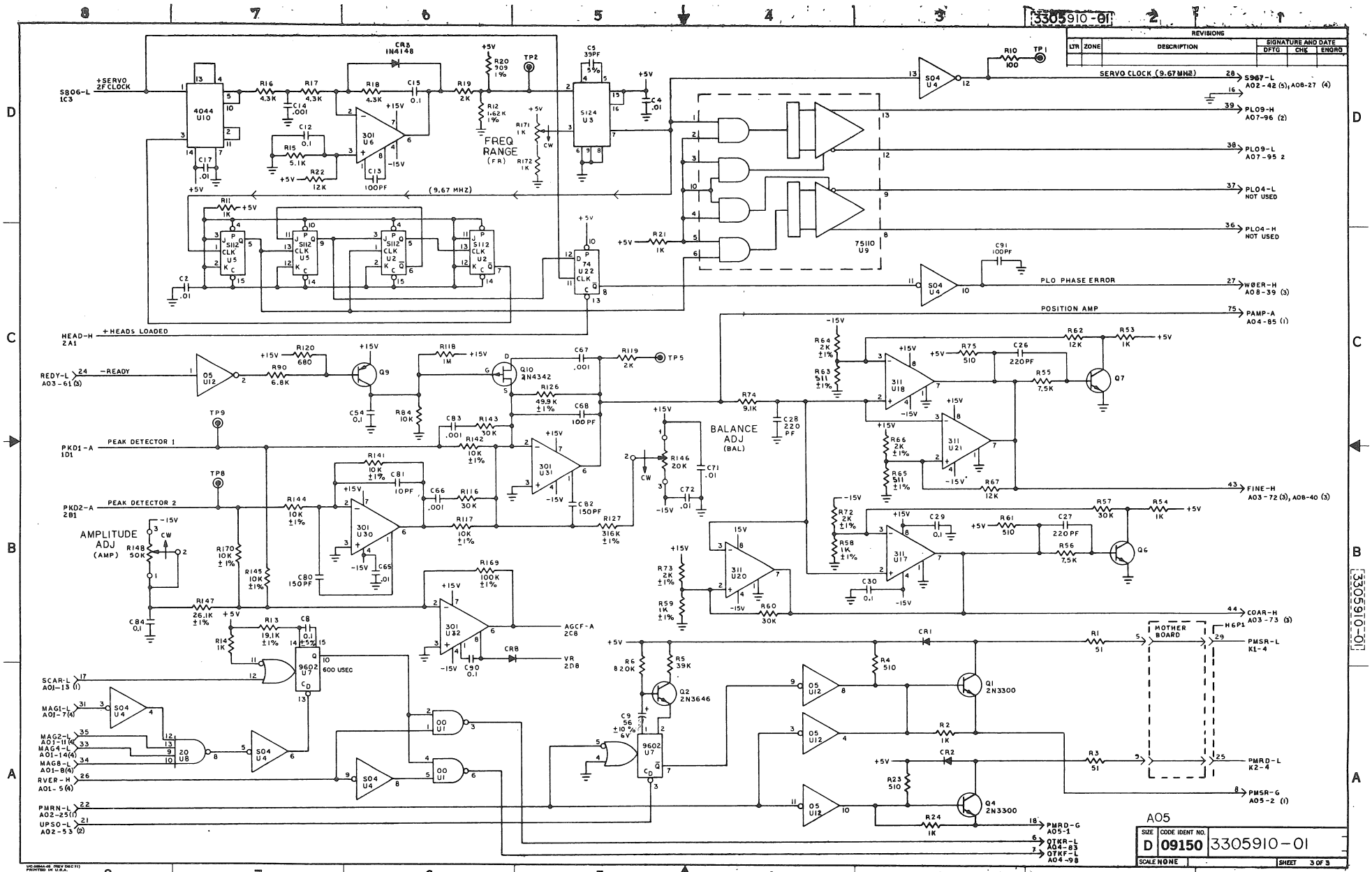
AMPEX
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Marina del Rey, California 90291

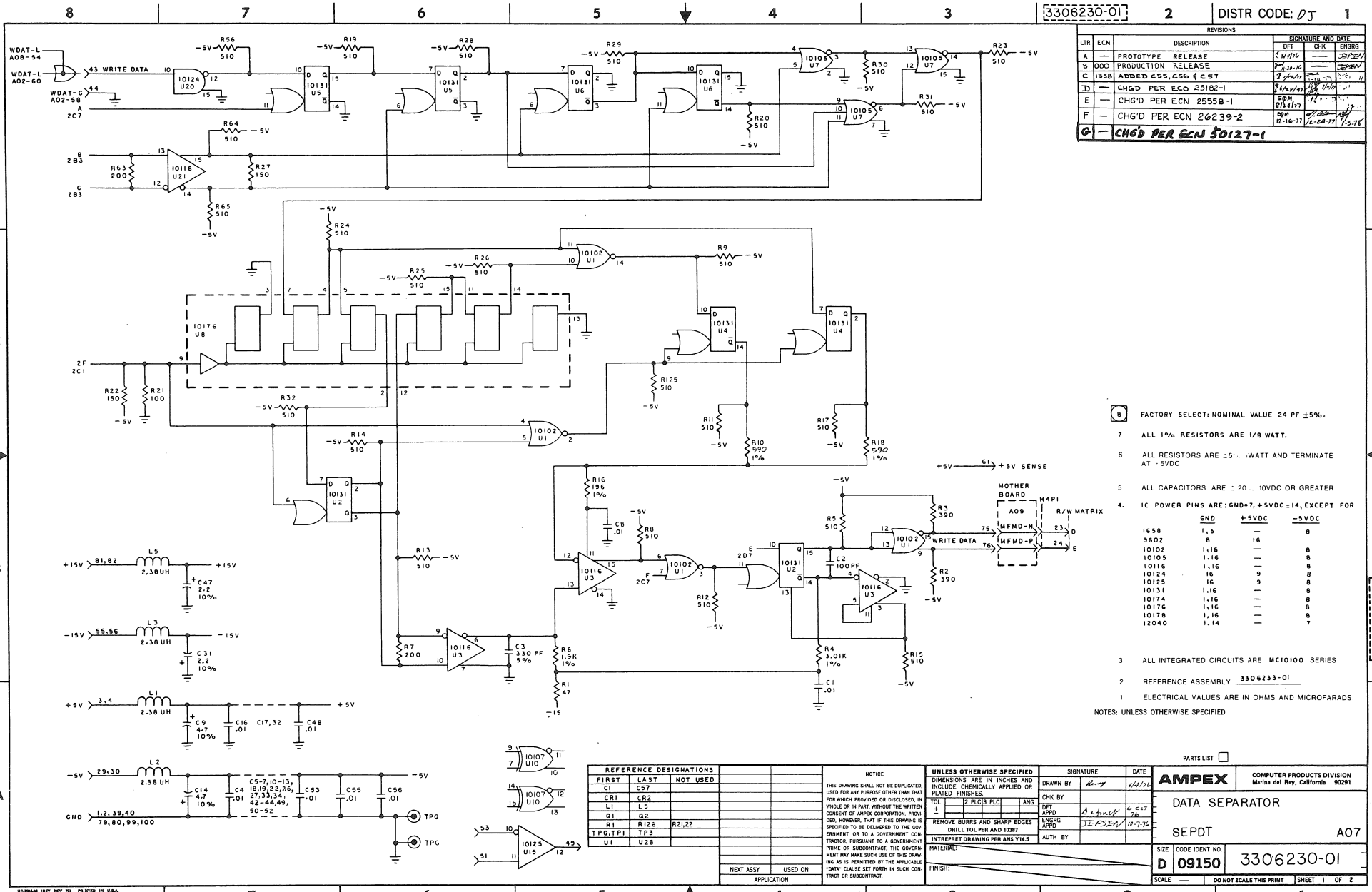
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POAMP A05

SIZE D | CODE IDENT NO. 09150 | 3305910-01
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3305910-01
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
ODDC-H 105
+ODD CYLINDER
(VOLTAGE REFERENCE)
VR 385
AGCF-A 385
SAMP-B H5P2-8
SAMP-A H5P2-7
H5P1
MOTHER BOARD
SERVO ALIGNMENT
TP4
TP7
TP6
DIBT-C 1C8
DIBT-A 1D8
DIBT-B 1D8
PEAK DETECTOR 1
PKD1-A 3B8
PEAK DETECTOR 2
PKD2-A 3B8
SGTE-H 1B4
BMRN-L A02-23 (1)
BRUSH MOTOR RELAY DRIVER
BMRD-L K3-4
BMRD-G A05-20 (1)
DBRD-L A04-12 (3)
SLTP-H A02-31 (2)
+36V A04-18 (2)
INDB-L A04-10 (2)
INHIBIT DYNAMIC BRAKE
DYBK-L A02-21 (1)
SPED-L H5P3-2
SPED-G
SPED-H H5P3-1
SPEED SENSOR
SPEED SENSOR
HEADS LOADED
HEAD-H 3C8
HEAD-H A03-97 (1)
A05
SIZE D
CODE IDENT NO. 09150
3305910-01
SCALE NONE
SHEET 2 OF 3


3305910-01
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
+SERVO 2F CLOCK
S806-L 1C3
4044 U10
CR5 IN4148
+5V
R20 909 1%
TP2
R16 4.3K
R17 4.3K
R18 4.3K
C15 .1
R19 2K
C14 .001
C12 .1
R15 5.1K
R22 12K
301 U6
C13 100PF
R12 1.62K 1%
FREQ RANGE (FR)
R171 1K
R172 1K
CW
S124 U3
C5 39PF 5%
C4 .01
C17 .01
C2 .01
(9.67 MHZ)
R11 1K
SII2 U5
SII2 U2
SII2 U1
74 U22 CLK
R21 1K
75110 U9
S04 U4
R10 100
TP1
SERVO CLOCK (9.67 MHZ)
S907-L A02-42 (5), A08-27 (4)
PLO9-H A07-96 (2)
PLO9-L A07-95 2
PLO4-L NOT USED
PLO4-H NOT USED
C91 100PF
PLO PHASE ERROR
W0ER-H A08-39 (3)
POSITION AMP
PAMP-A A04-85 (1)
HEAD-H 2A1
+HEADS LOADED
REDY-L A03-61 (3)
-READY
05 U12
R120 680
R90 6.8K
Q9
R118 1M
Q10 2N4342
C67 .001
R119 2K
TP5
C54 .1
R84 10K
C83 .001
R143 30K
R126 49.9K ±1%
C68 100PF
R74 9.1K
C28 220 PF
BALANCE ADJ (BAL)
R146 20K
C71 .01
C72 .01
PKD1-A 1D1
PEAK DETECTOR 1
TP9
R142 10K ±1%
PKD2-A 2B1
PEAK DETECTOR 2
TP8
R141 10K ±1%
C81 10PF
C66 .001
R116 30K
R117 10K ±1%
C82 150PF
R127 316K ±1%
R144 10K ±1%
AMPLITUDE ADJ (AMP)
R148 50K
R170 10K ±1%
R145 10K ±1%
C80 150PF
C65 .01
C84 .1
R147 26.1K ±1%
R169 100K ±1%
AGCF-A 2C8
VR 2D8
CR8
R13 19.1K ±1%
C8 .1 ±5%
R14 1K
9602 U7
600 USEC
SCAR-L A01-13 (1)
MAG1-L A01-7(4)
MAG2-L A01-11(4)
MAG4-L A01-14(4)
MAG8-L A01-8(4)
RVER-H A01-5(4)
20 U8
00 U1
PMRN-L A02-25(1)
UPSO-L A02-53 (2)
R64 2K ±1%
R63 511 ±1%
311 U18
R75 510
C26 220PF
R55 7.5K
Q7
R62 12K
R53 1K
R66 2K ±1%
R65 511 ±1%
311 U21
R67 12K
FINE-H A03-72 (3), A08-40 (3)
R72 2K ±1%
R58 1K ±1%
311 U17
C29 .1
C30 .1
R61 510
C27 220PF
R56 7.5K
R57 30K
R54 1K
Q6
R73 2K ±1%
R59 1K ±1%
311 U20
R60 30K
COAR-H A03-73 (3)
CR1
R1 51
MOTHER BOARD
H6P1
PMSR-L K1-4
R6 820K
R5 39K
Q2 2N3646
C9 56 ±10% 6V
R4 510
Q1 2N3300
R2 1K
CR2
R3 51
PMRD-L K2-4
PMSR-G A05-2 (1)
R23 510
Q4 2N3300
R24 1K
PMRD-G A05-1
QTKR-L A04-83
QTKF-L A04-98
A05
SIZE D | CODE IDENT NO. 09150 | 3305910-01
SCALE NONE | SHEET 3 OF 3



REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE	5/11/76	—	JEPSEN
B	000	PRODUCTION RELEASE	10-26-76	—	JEPSEN
C	1958	ADDED C55, C56 & C57	2/24/77		
D	—	CHGD PER ECO 25182-1	4/21/77		
E	—	CHG'D PER E.CN 25558-1	8/24/77		
F	—	CHG'D PER ECN 26239-2	12-16-77	12-20-77	1/5/78
G	—	CHG'D PER ECN 30127-1			

8 FACTORY SELECT: NOMINAL VALUE 24 PF ±5%.

7 ALL 1% RESISTORS ARE 1/8 WATT.

6 ALL RESISTORS ARE ±5% 1/4WATT AND TERMINATE AT -5VDC

5 ALL CAPACITORS ARE ± 20% 10VDC OR GREATER

4. IC POWER PINS ARE: GND=7, +5VDC=14, EXCEPT FOR

	GND	+5VDC	-5VDC
1658	1,5	—	8
9602	8	16	
10102	1,16	—	8
10105	1,16	—	8
10116	1,16	—	8
10124	16	9	8
10125	16	9	8
10131	1,16	—	8
10174	1,16	—	8
10176	1,16	—	8
10178	1,16	—	8
12040	1,14	—	7

3 ALL INTEGRATED CIRCUITS ARE MC10100 SERIES

2 REFERENCE ASSEMBLY 3306233-01

1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

REFERENCE DESIGNATIONS		
FIRST	LAST	NOT USED
C1	C57	
CR1	CR2	
L1	L5	
Q1	Q2	
R1	R126	R21,22
TPG,TP1	TP3	
U1	U28	

NEXT ASSY | USED ON
APPLICATION

NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANS 10387
INTREPRET DRAWING PER ANS Y14.5

SIGNATURE		DATE
DRAWN BY		1/4/76
CHK BY		
DFT APPD		6 CCT 76
ENGRG APPD	JEPSEN	12-7-76
AUTH BY		

MATERIAL:
FINISH:

PARTS LIST ☐

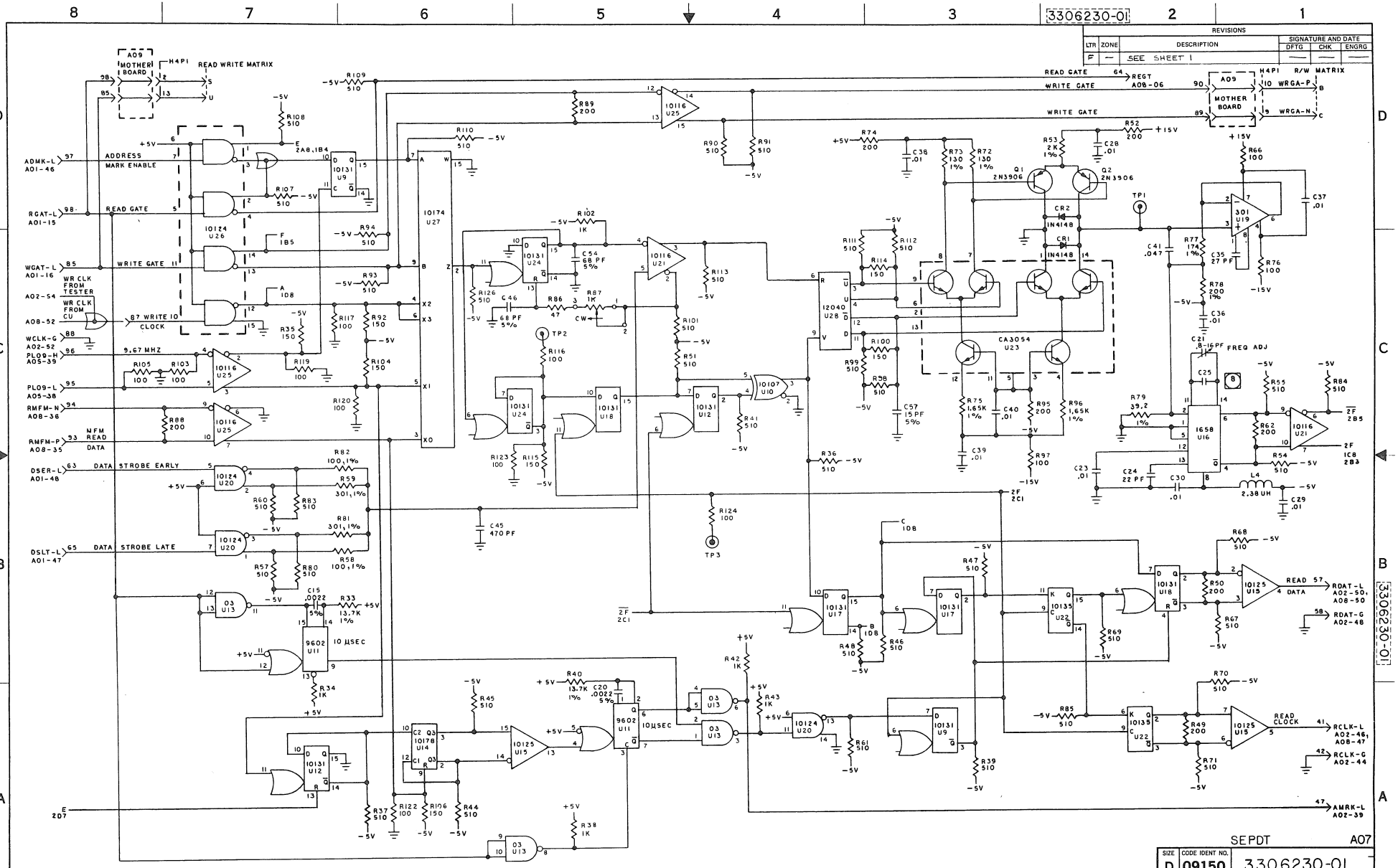
AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

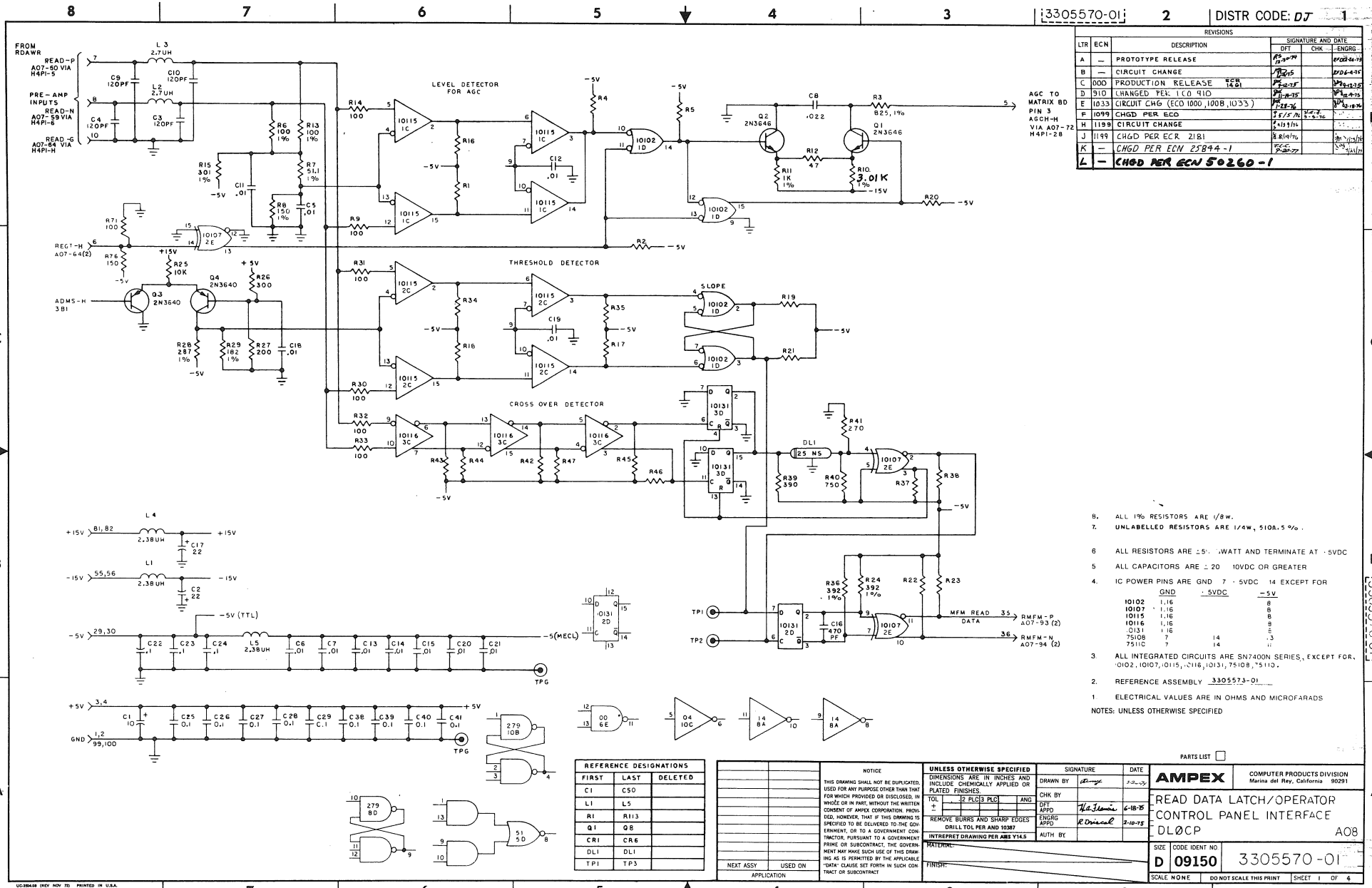
DATA SEPARATOR
SEPDT A07

SIZE D | CODE IDENT NO. 09150 | 3306230-01
SCALE — | DO NOT SCALE THIS PRINT | SHEET 1 OF 2

3306230-01

UC-305458 (REV NOV 75) PRINTED IN U.S.A.


3306230-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
P — SEE SHEET 1
A09 MOTHER BOARD H4P1 READ WRITE MATRIX
ADMK-L A01-46
ADDRESS MARK ENABLE
RGAT-L A01-15
READ GATE
WGAT-L A01-16
WRITE GATE
WR CLK FROM TESTER
A02-54
WR CLK FROM CU
A08-52
87 WRITE IO CLOCK
WCLK-G A02-52
PLO9-H A05-39
9.67 MHZ
PLO9-L A05-38
RMFM-N A08-36
RMFM-P A08-35
WFM READ DATA
DSER-L A01-48
DATA STROBE EARLY
DSLT-L A01-47
DATA STROBE LATE
10 µSEC
READ GATE
WRITE GATE
REGT A08-06
R/W MATRIX
WRGA-P
WRGA-N
READ DATA
RDAT-L A02-50, A08-50
RDAT-G A02-48
READ CLOCK
RCLK-L A02-46, A08-47
RCLK-G A02-44
AMRK-L A02-39
FREQ ADJ
SEPDT
A07
SIZE D
CODE IDENT NO. 09150
3306230-01
SCALE —
SHEET 2 OF 2



REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE	12-27-74		12/24/74
B	—	CIRCUIT CHANGE	2-2-75		2/26/75
C	000	PRODUCTION RELEASE ECO 1401	2-12-75		2-12-75
D	910	CHANGED PER ECO 910	11-14-75		11-14-75
E	1033	CIRCUIT CHG (ECO 1000, 1008, 1033)	7-28-76		7-28-76
F	1099	CHGD PER ECO	5/5/76	5-5-76	
H	1198	CIRCUIT CHANGE	8/31/76		
J	1149	CHGD PER ECR 2181	8/8/76		8/31/76
K	—	CHGD PER ECN 25844-1	12-6-77		1/31/77
L	—	CHGD PER ECN 50260-1			

8. ALL 1% RESISTORS ARE 1/8 W.
7. UNLABELLED RESISTORS ARE 1/4W, 5%.
6. ALL RESISTORS ARE ± 5% .WATT AND TERMINATE AT -5VDC
5. ALL CAPACITORS ARE ± 20 10VDC OR GREATER
4. IC POWER PINS ARE GND 7 -5VDC 14 EXCEPT FOR

	GND	-5VDC	-5V
10102	1,16		8
10107	1,16		8
10115	1,16		8
10116	1,16		8
10131	1,16		8
75108	7	14	3
7511C	7	14	1

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES, EXCEPT FOR, 10102, 10107, 10115, 10116, 10131, 75108, 7511C.
2. REFERENCE ASSEMBLY 3305573-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

REFERENCE DESIGNATIONS		
FIRST	LAST	DELETED
C1	C50	
L1	L5	
R1	R113	
Q1	Q8	
CR1	CR6	
DL1	DL1	
TP1	TP3	

NEXT ASSY | USED ON
APPLICATION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± .2 PLC 3 PLC ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANSI Y14.5
MATERIAL:
FINISH:

	SIGNATURE	DATE
DRAWN BY		7-2-75
CHK BY		
DFT APPD	W.A. Flemin	6-18-75
ENGRG APPD	R Driscoll	7-10-75
AUTH BY		

PARTS LIST ☐

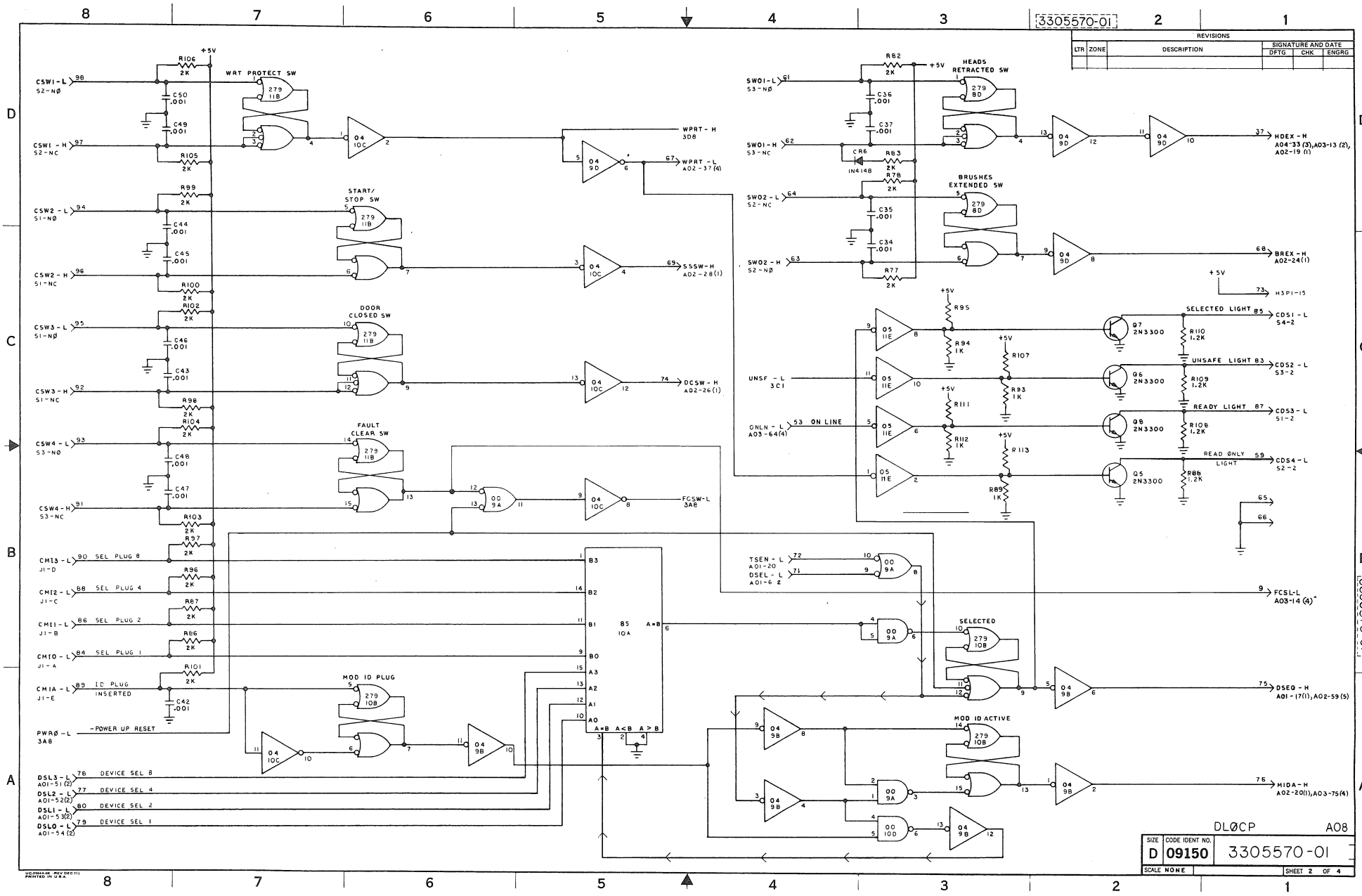
AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

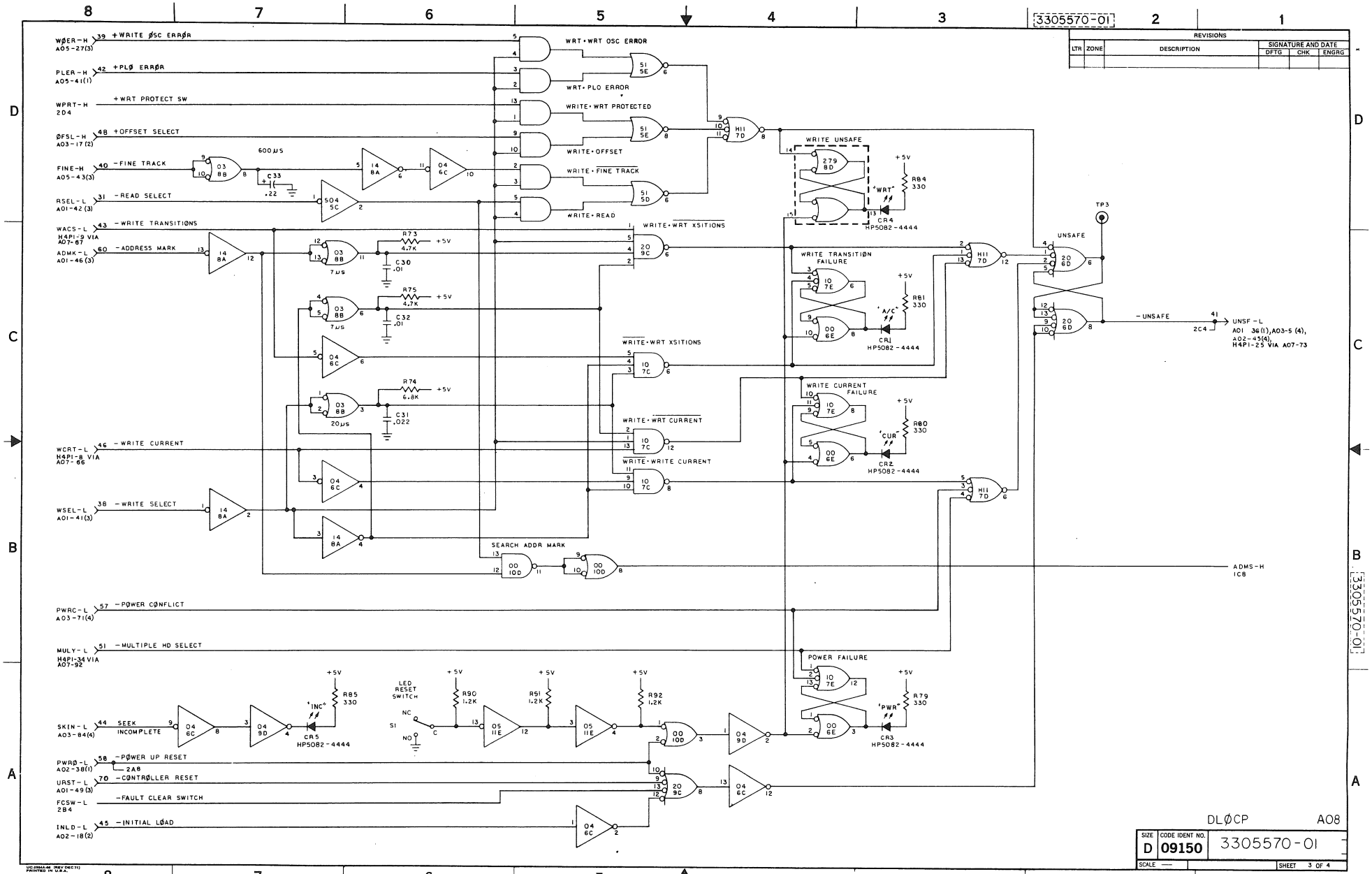
READ DATA LATCH/OPERATOR CONTROL PANEL INTERFACE
DLØCP A08

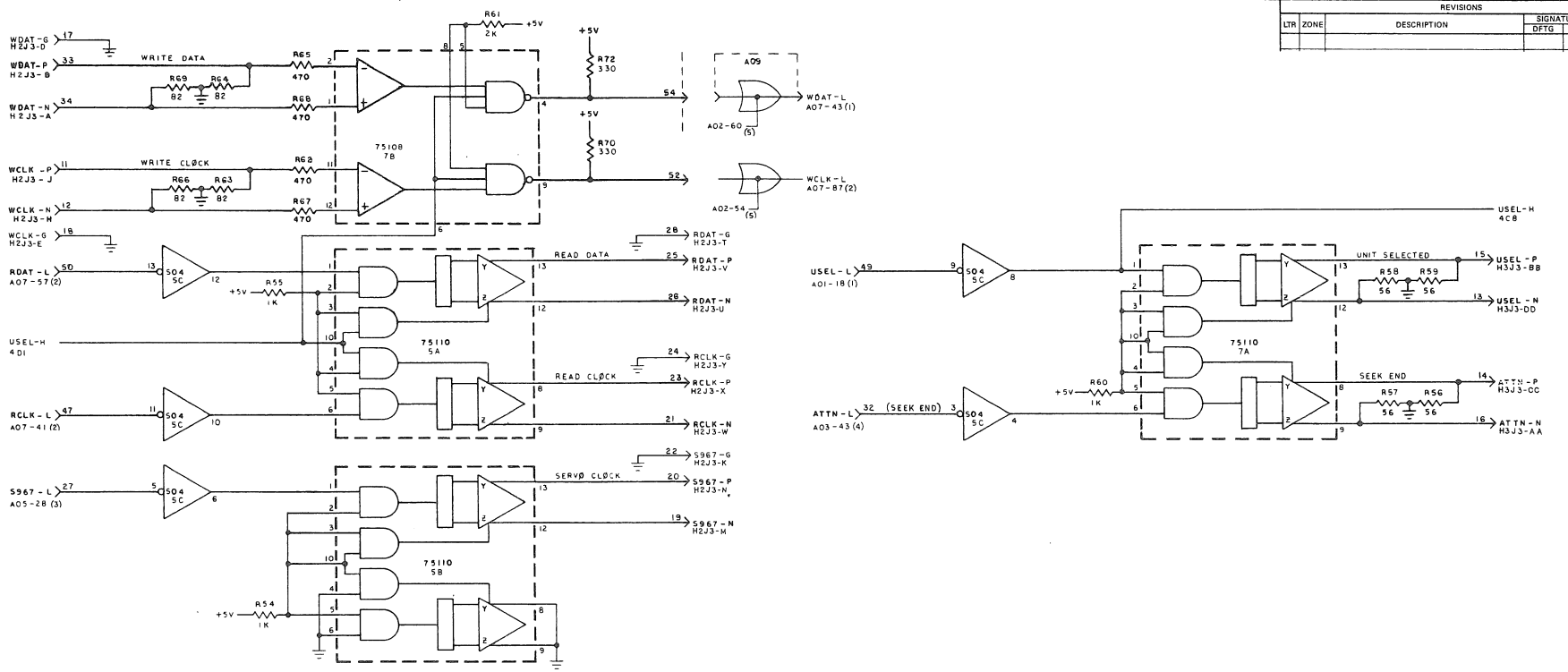
SIZE D | CODE IDENT NO. 09150 | 3305570-01
SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 4

UC-3004-08 (REV NOV 72) PRINTED IN U.S.A.

3305570-01


3305570-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
+5V
R106 2K
CSW1-L 98 S2-NØ
CSW1-H 97 S2-NC
C50 .001
C49 .001
WRT PROTECT SW
279 11B
04 10C
WPRT-H 3D8
04 9D
67 WPRT-L A02-37(4)
R99 2K
CSW2-L 94 S1-NØ
CSW2-H 96 S1-NC
C44 .001
C45 .001
R100 2K
START/ STOP SW
279 11B
04 10C
69 SSSW-H A02-28(1)
R102 2K
CSW3-L 95 S1-NØ
CSW3-H 92 S1-NC
C46 .001
C43 .001
R98 2K
DOOR CLOSED SW
279 11B
04 10C
74 DCSW-H A02-26(1)
R104 2K
CSW4-L 93 S3-NØ
CSW4-H 91 S3-NC
C48 .001
C47 .001
R103 2K
FAULT CLEAR SW
279 11B
00 9A
04 10C
FCSW-L 3A8
R97 2K
CMI3-L 90 SEL PLUG 8 J1-D
R96 2K
CMI2-L 88 SEL PLUG 4 J1-C
R87 2K
CMI1-L 86 SEL PLUG 2 J1-B
R86 2K
CMI0-L 84 SEL PLUG 1 J1-A
R101 2K
CMIA-L 89 ID PLUG INSERTED J1-E
C42 .001
PWRØ-L 3A8 -POWER UP RESET
MOD ID PLUG
279 10B
04 10C
04 9B
85 10A
B3 B2 B1 B0 A3 A2 A1 A0 A=B A<B A>B A=B
DSL3-L A01-51(2) 76 DEVICE SEL 8
DSL2-L A01-52(2) 77 DEVICE SEL 4
DSL1-L A01-53(2) 80 DEVICE SEL 2
DSL0-L A01-54(2) 79 DEVICE SEL 1
R82 2K
SW01-L 51 S3-NØ
SW01-H 62 S3-NC
C36 .001
C37 .001
CR6 IN4148
R83 2K
HEADS RETRACTED SW
279 8D
04 9D
37 HDEX-H A04-33(3),A03-13(2), A02-19(1)
R78 2K
SW02-L 64 S2-NC
SW02-H 63 S2-NØ
C35 .001
C34 .001
R77 2K
BRUSHES EXTENDED SW
279 8D
04 9D
68 BREX-H A02-24(1)
+5V
73 H3P1-15
UNSF-L 3C1
ONLN-L A03-64(4) 53 ON LINE
R95 R94 1K R107 R93 1K R111 R112 1K R113 R89 1K
05 11E
SELECTED LIGHT 85 CDS1-L S4-2
UNSAFE LIGHT 83 CDS2-L S3-2
READY LIGHT 87 CDS3-L S1-2
READ ONLY LIGHT 59 CDS4-L S2-2
Q7 2N3300
Q6 2N3300
Q8 2N3300
Q5 2N3300
R110 1.2K
R109 1.2K
R108 1.2K
R88 1.2K
65
66
TSEN-L A01-20 72
DSEL-L A01-6 2 71
00 9A
9 FCSL-L A03-14(4)
SELECTED
279 10B
04 9B
75 DSEQ-H A01-17(1), A02-59(5)
MOD ID ACTIVE
279 10B
04 9B
00 9A
00 10D
76 MIDA-H A02-20(1), A03-75(4)
DLØCP A08
SIZE D
CODE IDENT NO. 09150
3305570-01
SCALE NONE
SHEET 2 OF 4
3305570-01
UC37AA/AB (REV DEC'77) PRINTED IN U.S.A.


3305570-01
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
WØER-H
A05-27(3)
39 +WRITE ØSC ERRØR
PLER-H
A05-41(1)
42 +PLØ ERRØR
WPRT-H
204
+WRT PROTECT SW
ØFSL-H
A03-17(2)
48 +OFFSET SELECT
FINE-H
A05-43(3)
40 -FINE TRACK
600µs
.22
RSEL-L
A01-42(3)
31 -READ SELECT
WACS-L
H4PI-9 VIA
A07-67
43 -WRITE TRANSITIØNS
ADMK-L
A01-46(3)
60 -ADDRESS MARK
7µs
20µs
WCRT-L
H4PI-8 VIA
A07-66
46 -WRITE CURRENT
WSEL-L
A01-41(3)
38 -WRITE SELECT
PWRC-L
A03-71(4)
57 -PØWER CØNFLICT
MULY-L
H4PI-34 VIA
A07-92
51 -MULTIPLE HD SELECT
SKIN-L
A03-84(4)
44 SEEK INCØMPLETE
PWRØ-L
A02-38(1)
58 -PØWER UP RESET
2A8
URST-L
A01-49(3)
70 -CONTRØLLER RESET
FCSW-L
2B4
-FAULT CLEAR SWITCH
INLD-L
A02-18(2)
45 -INITIAL LØAD
WRT•WRT OSC ERROR
WRT•PLO ERROR
WRITE•WRT PROTECTED
WRITE•OFFSET
WRITE•FINE TRACK
WRITE•READ
WRITE•WRT XSITIONS
WRITE•WRT XSITIONS
WRITE•WRT CURRENT
WRITE•WRITE CURRENT
SEARCH ADDR MARK
ADMS-H
1C8
WRITE UNSAFE
WRITE TRANSITIØN FAILURE
WRITE CURRENT FAILURE
POWER FAILURE
UNSAFE
TP3
-UNSAFE
41
2C4
UNSF-L
A01 36(1),A03-5 (4),
A02-45(4),
H4PI-25 VIA A07-73
LED RESET SWITCH
NC
S1
NO
C
+5V
R73 4.7K
C30 .01
R75 4.7K
C32 .01
R74 6.8K
C31 .022
R84 330
R81 330
R80 330
R79 330
R85 330
R90 1.2K
R91 1.2K
R92 1.2K
'WRT'
'N/C'
'CUR'
'PWR'
'INC'
CR4 HP5082-4444
CR1 HP5082-4444
CR2 HP5082-4444
CR3 HP5082-4444
CR5 HP5082-4444
DLØCP A08
SIZE D
CODE IDENT NO. 09150
3305570-01
SCALE —
SHEET 3 OF 4



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE		
			DFTG	CHK	ENGRG

DLØCP A08

SIZE	CODE IDENT NO.	
D	09150	3305570-01

SCALE NONE SHEET 4 OF 4

3305570-01

UC-8884A-49 (REV DEC 71)
PRINTED IN U.S.A.

3305520-01 | DISTR CODE: DJ

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE	11-17-75 11-25-75	5-26-75	
B	—	CIRCUIT CHANGE	12-5-75	6-18-75	
C	000	PRODUCTION RELEASE	7-9-15	—	
D	000	CHGD PER ECR 1512	7-9-15	—	
E	895	CHGD PER ECO	10-23-75	10-23-75	
F	903	CHGD PER ECO	10-23-75	10-23-75	
H	1001	CIRCUIT CHANGE	1-23-76	—	
J	1100	CHG VALUE ON RG9-71	10/20/76	—	
K	1201	DELETED C19	3/24/77	—	
L	1201	CHGD PER ECR 2131	8/16/77	—	
M	1259	CHGD PER ECO	9/24/76	—	
N	—	NO CHANGE SEE ECO 1368	3-24-77	3-24-77	
P	1368	CHGD PER ECO	6/21/77	6-21-77	
P1	—	CHG'D PER ECR 25180	EGM 8-3-77		

7. ALL 1% RESISTORS ARE 1/8W.
6. ALL RESISTORS ARE ±5%, .WATT AND TERMINATE AT -5VDC
5. ALL CAPACITORS ARE ± 20% 10VDC OR GREATER
4. IC POWER PINS ARE GND 7, -5VDC 14 EXCEPT FOR

	GND	-5VDC	-5 VDC
10116	1,16		8
10131	1,16		8
75107	7	14	13

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES, EXCEPT FOR 10116, 10131, CA3054, 75107, NE592, UHP402 & MC1458.
2. REFERENCE ASSEMBLY 3305623-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

REFERENCE DESIGNATIONS		
FIRST	LAST	DELETED
C1	C42	C19
CR1	CR4	
L1	L7	
Q1	Q16	
R1	R95	
U1	U13	
TPG	TPG	

NEXT ASSY | USED ON
APPLICATION

NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	REMY	1-8-75
CHK BY		
DFT APPD	N.A. Seaman	1-29-75
ENGRG APPD	JEPSEN	3-24-75
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

READ/WRITE MATRIX

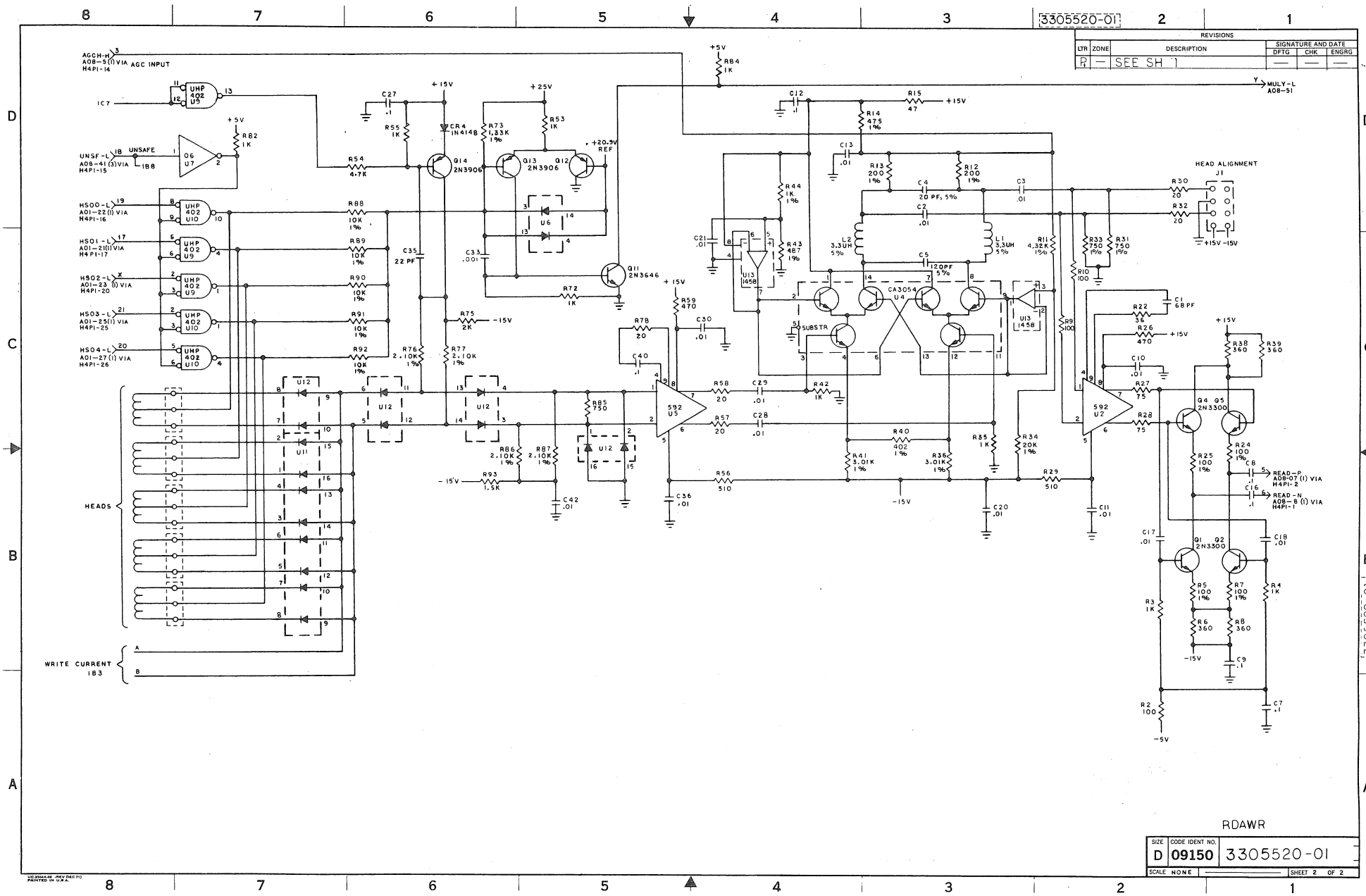
RDAWR DM940

SIZE D | CODE IDENT NO. 09150 | 3305520-01

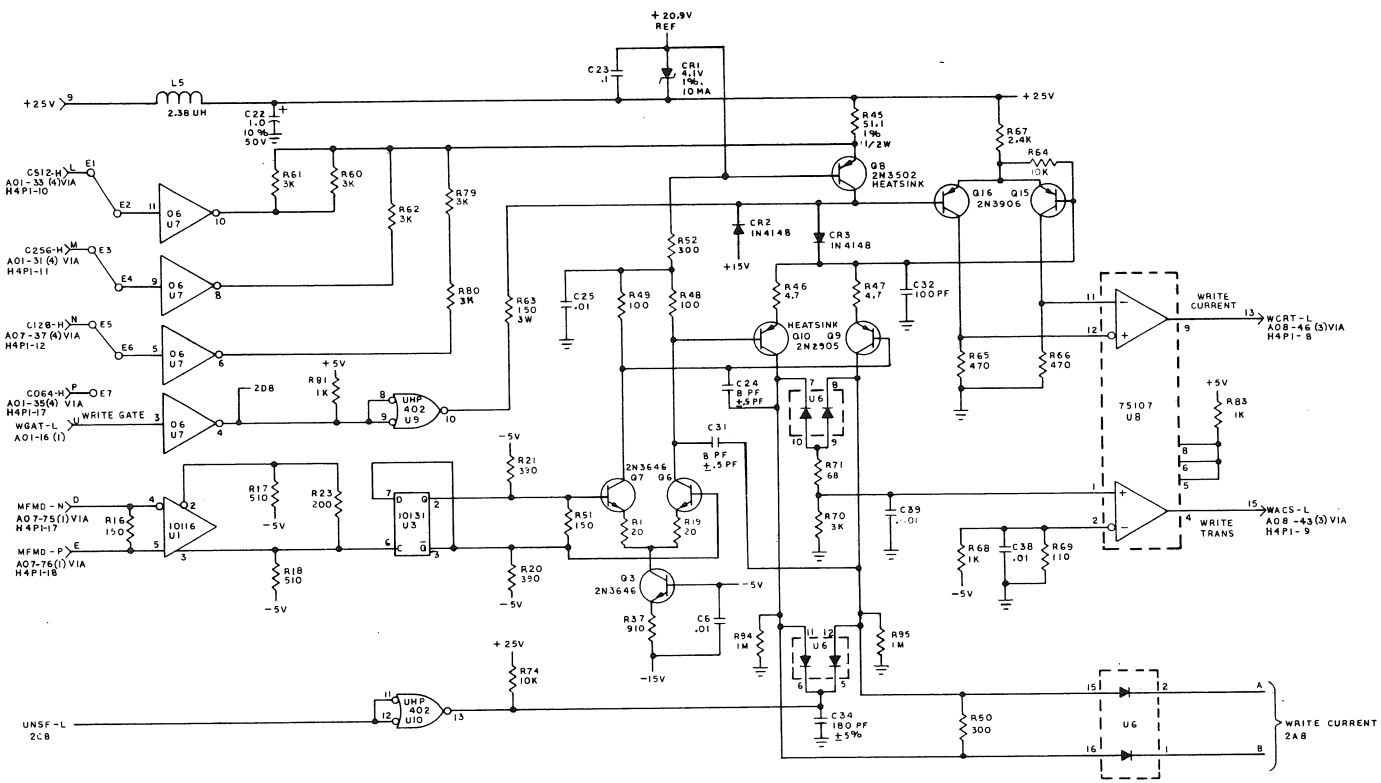
SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 2

UC-330408 (REV NOV 72) PRINTED IN U.S.A.

DM940


3305520-01
REVISIONS
LTR ZONE DESCRIPTION DFTG CHK ENGRG
R — SEE SH 1
AGCH-H A08-5 (1) VIA H4P1-14 AGC INPUT
IC7
UNSF-L A08-41 (3) VIA H4P1-15
UNSAFE
HS00-L A01-22 (1) VIA H4P1-16
HS01-L A01-2 (1) VIA H4P1-17
HS02-L A01-23 (1) VIA H4P1-20
HS03-L A01-25 (1) VIA H4P1-25
HS04-L A01-27 (1) VIA H4P1-26
HEADS
WRITE CURRENT 183
+5V
+15V
+25V
-15V
+20.9V REF
MULY-L A08-51
HEAD ALIGNMENT
SUBSTR
READ-P A08-07 (1) VIA H4P1-2
READ-N A08-8 (1) VIA H4P1-1
RDAWR
SIZE D
CODE IDENT NO. 09150
3305520-01
SCALE NONE
SHEET 2 OF 2

SM940



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	1-28-76		DM
B	1201	DELETED C19	5/10/76		(illegible)
C	1201	CHGD PER ECR 2131	8/19/76		
D	1259	CHG. REV.			
E	1315	CHG VALUE R40			RR
F	1368	CHG REV			

3305760-01

DISTR CODE:

7. ALL 1% RESISTORS ARE 1/8W.
6. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC
5. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER
4. IC POWER PINS ARE: GND, 7; +5VDC, 14 EXCEPT FOR

	GND	+5VDC	−5 VDC
10116	1,16		8
10131	1,16		8
75107	7	14	13

3. ALL INTEGRATED CIRCUITS ARE SN7400N SERIES, EXCEPT FOR 10116, 10131, CA3054, 75107, NE592, UHP402 & MC1458.
2. REFERENCE ASSEMBLY 3305763-01
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

REFERENCE DESIGNATIONS		
FIRST	LAST	DELETED
C1	C42	C19
CR1	CR4	
L1	L7	
Q1	Q16	
R1	R95	
U1	U13	
TPG	TPG	

NEXT ASSY | USED ON
APPLICATION

NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANSI 10387
INTERPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	REMY	1-8-75
CHK BY		
DFT APPD		
ENGRG APPD		2-23-76
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

READ/WRITE MATRIX

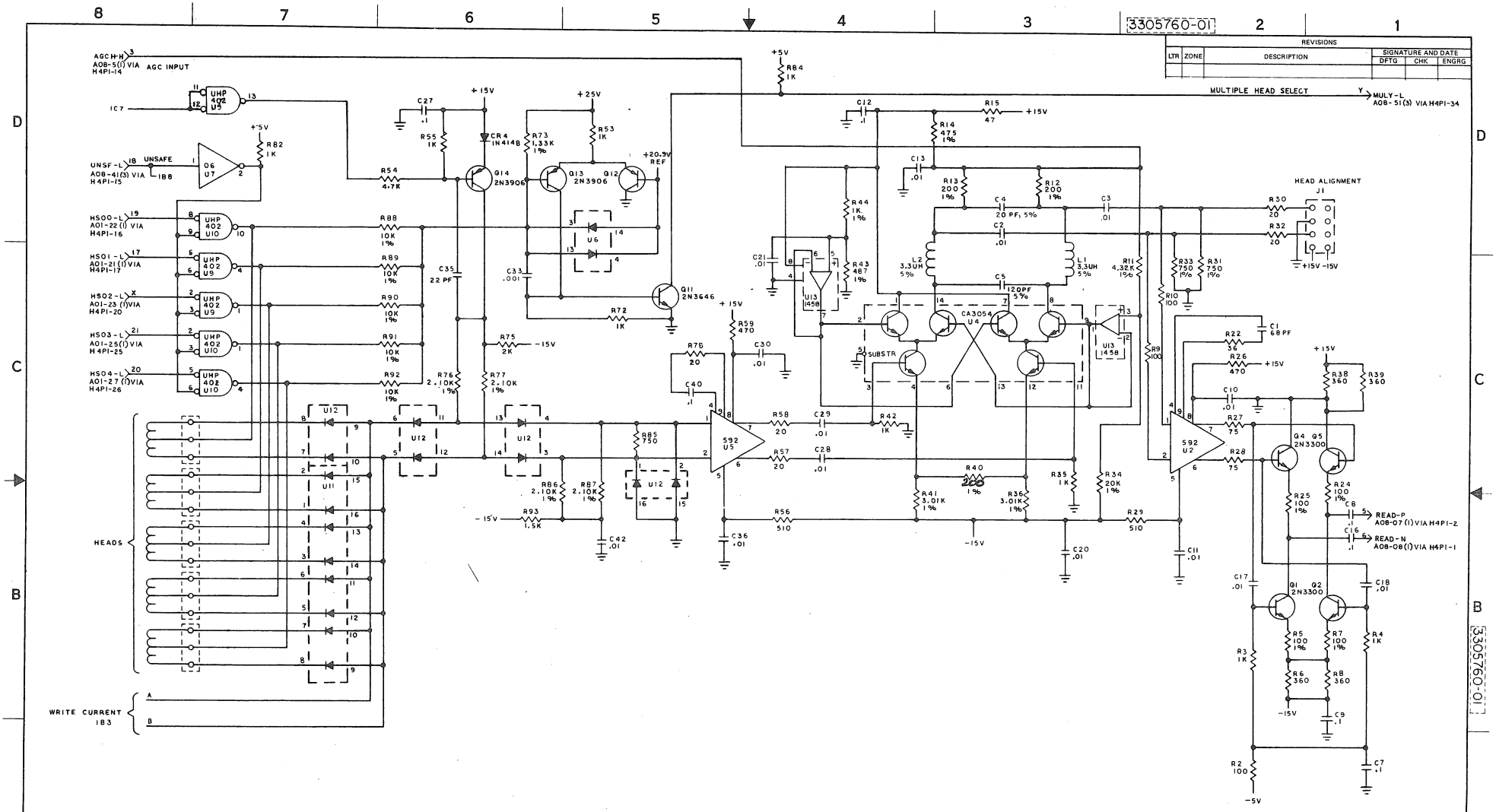
RDAWR DM 980

SIZE D | CODE IDENT NO. 09150 | 3305760-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 2

UC-350A-08 (REV NOV 70) PRINTED IN U.S.A.

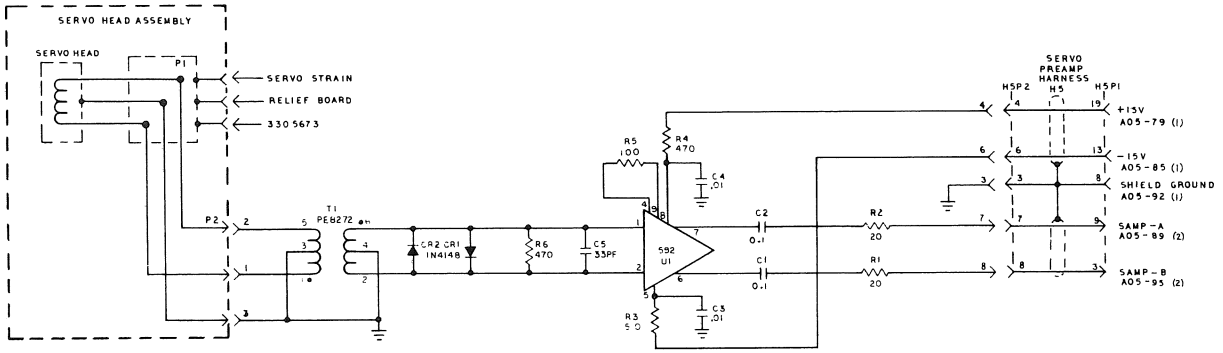
DM 980


3305760-01
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
AGC H-H
AOB-5(1) VIA H4PI-14
AGC INPUT
MULTIPLE HEAD SELECT
MULY-L
AOB-51(3) VIA H4PI-34
IC7
UNSF-L
AOB-41(3) VIA H4PI-15
UNSAFE
HS00-L
AOI-22 (1) VIA H4PI-16
HS01-L
AOI-21 (1) VIA H4PI-17
HS02-L
AOI-23 (1) VIA H4PI-20
HS03-L
AOI-25(1) VIA H4PI-25
HS04-L
AOI-27 (1) VIA H4PI-26
HEADS
WRITE CURRENT
183
+5V
+15V
+25V
-15V
+20.5V REF
HEAD ALIGNMENT J1
+15V -15V
SUBSTR
CA3054 U4
592 U5
592 U2
READ-P
AOB-07 (1) VIA H4PI-2
READ-N
AOB-08 (1) VIA H4PI-1
Q1 Q2 2N3300
Q4 Q5 2N3300
Q11 2N3646
Q12 Q13 2N3906
Q14 2N3906
CR4 1N414B
RDAWR
SIZE D
CODE IDENT NO. 09150
3305760-01
SCALE NONE
SHEET 2 OF 2

DM980

3305560-01

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE			
B	—	ADDED COMP VALUES		6/16/75	
C	—	CHG PER ECR 1358			
D	000	PRODUCTION REL. (ECR 1814)			
E	000	CHGD PER ECR 2131			
F		CHGD PER ECN 50038-1			



4. ALL RESISTORS ARE ±5%, 1/4 WATT.
3. ALL CAPACITORS ARE ±20%, 10 VDC OR GREATER.
2. REFERENCE ASSEMBLY 3305563-01.
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS.

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NOTICE

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± — 2 PLC — 3 PLC — ANG —
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANSI B32.7
INTREPRET DRAWING PER ANSI Y14.5

	SIGNATURE	DATE
DRAWN BY		6/17/75
CHK BY		
DFT APPD		7-22-75
ENGRG APPD		7/25/75
AUTH BY		

MATERIAL:
FINISH:

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

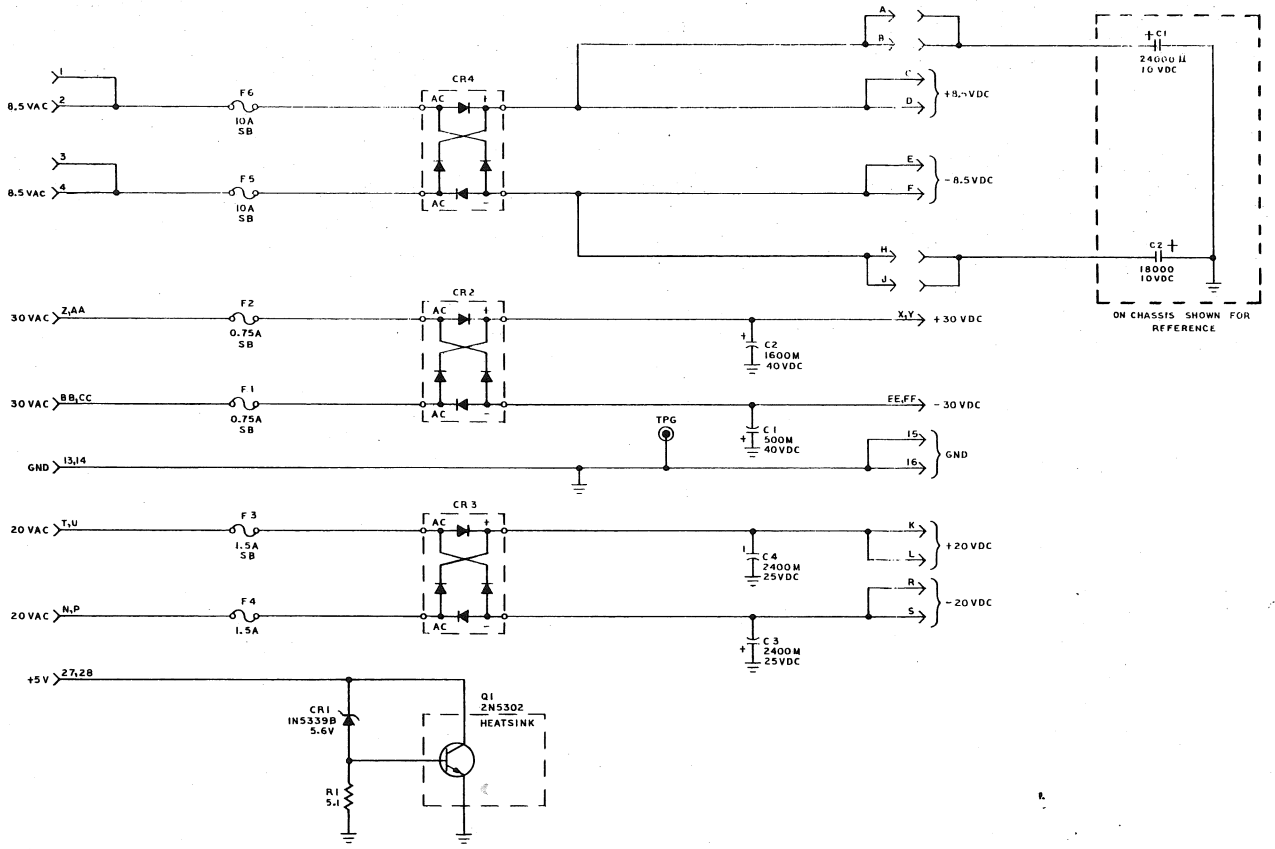
SERVO PRE-AMP

SERAM

SIZE	CODE IDENT NO	3305560-01
D	09150	

SCALE — DO NOT SCALE THIS PRINT SHEET 1 OF 1

UC-32A/B (REV NOV 73) PRINTED IN U.S.A.



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	—	PROTOTYPE RELEASE			
B	—	CHGD PER ECR 1430			
C	—	CHGD PER ECR 1463			
D	000	RELEASED PER ECR 1511			
E	000	CHGD PER ECR 1691			
F	000	CHGD PER ECR 1717			
G	000	CHGD PER ECR 1731			
H	—	NO CHG PER ECN 50297-1			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
Q1		
R1		
C1	C4	
CR1	CR4	
F1	F6	

4. ALL RESISTORS ARE ±5%, ¼WATT AND TERMINATE AT +5VDC.
3. ALL CAPACITORS ARE ± 20%, 10VDC OR GREATER.
2. REFERENCE ASSEMBLY 3305533-01 .
1. ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS.

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NOTICE

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY		
CHK BY		
DFT APPD		
ENGRG APPD		
AUTH BY		

NEXT ASSY | USED ON
APPLICATION

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

DC POWER FUSE/RECTIFIER

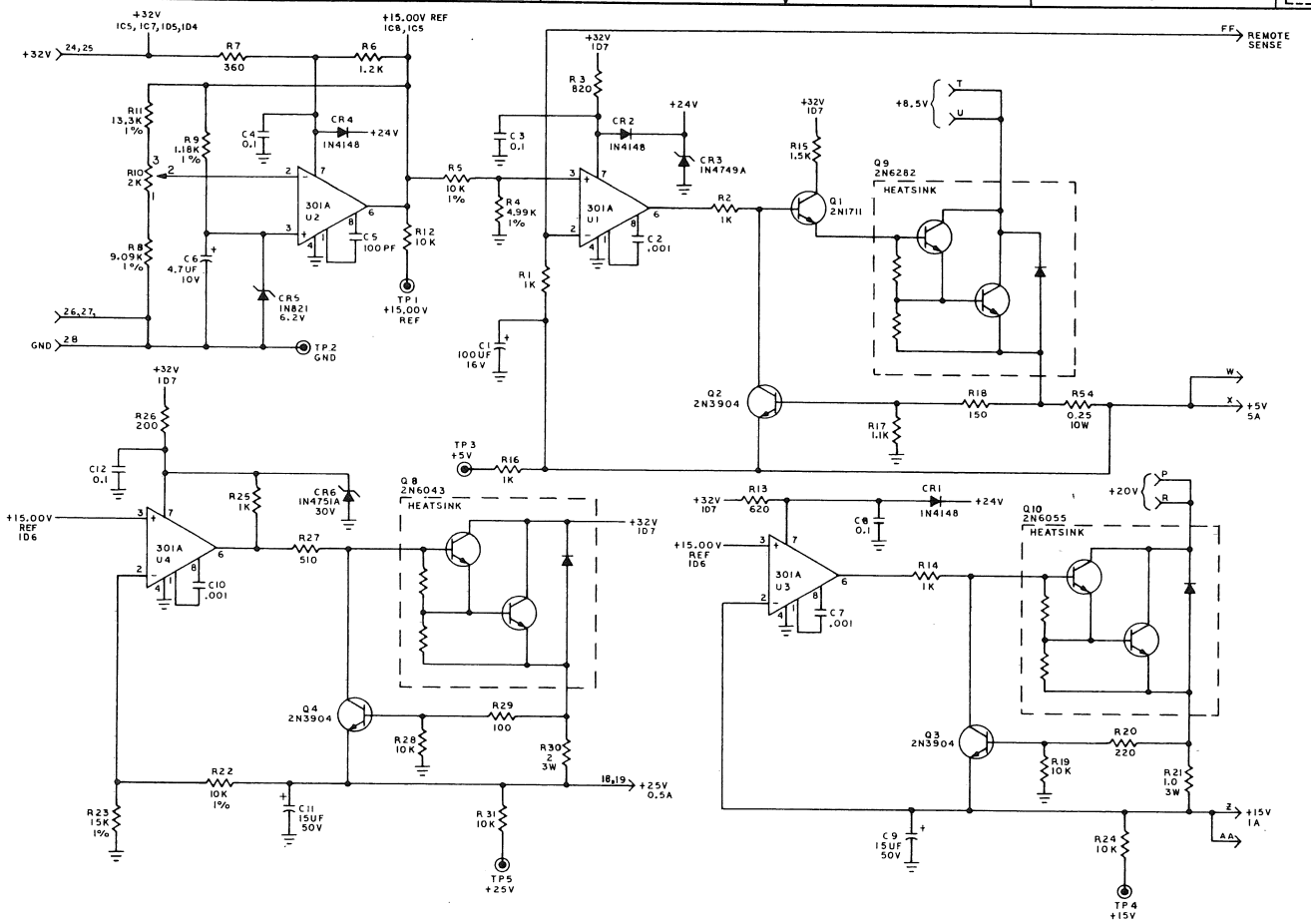
FURCF

SIZE D | CODE IDENT NO. 09150 | 3305730-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

3305730-01

UC-30545 (REV NOV 70) PRINTED IN U.S.A.



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	–	PROTOTYPE RELEASE			
B	–	B/M CHANGE ONLY			
C	000	PRODUCTION RELEASE ECR14474			
D	000	CHANGED PER ECR 1603			
E	1044	CORRECT A/W			
F	1044	CHGD PER ECR 2131			
G	1245	CHG. REVISION			
J	–	NO CHG PER ECN 26871-2			

REFERENCE DESIGNATION		
FIRST	LAST	DELETED
R1	R55	
C1	C21	
CR1	CR11	
Q1	Q12	
TP1	TP8	

4 ALL RESISTORS ARE ±5%, .4WATT AND TERMINATE AT +5VDC
3 ALL CAPACITORS ARE ± 20% 10VDC OR GREATER
2 REFERENCE ASSEMBLY- 3305543-01
1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	Jim Anton	5-5-75
CHK BY		
DFT APPD		
ENGRG APPD		
AUTH BY		

NEXT ASSY | USED ON
APPLICATION

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

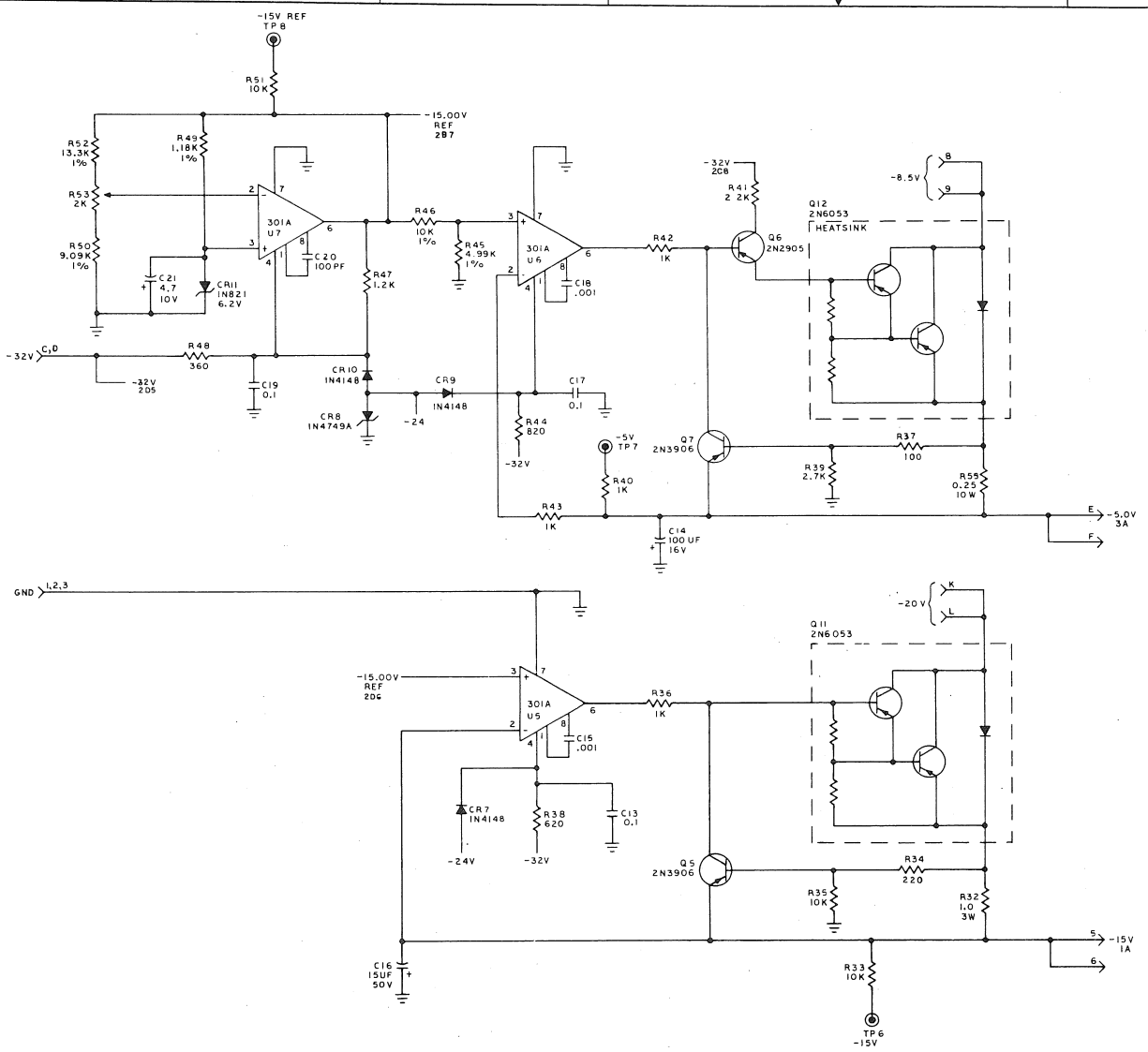
POWER SUPPLY REGULATOR
REGPS

SIZE	CODE IDENT NO	
D	09150	3305740-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 2

3305740-01

DISTR CODE:



REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE		
			DFTG	CHK	ENGRG

REGPS POWER SUPPLY REGULATOR

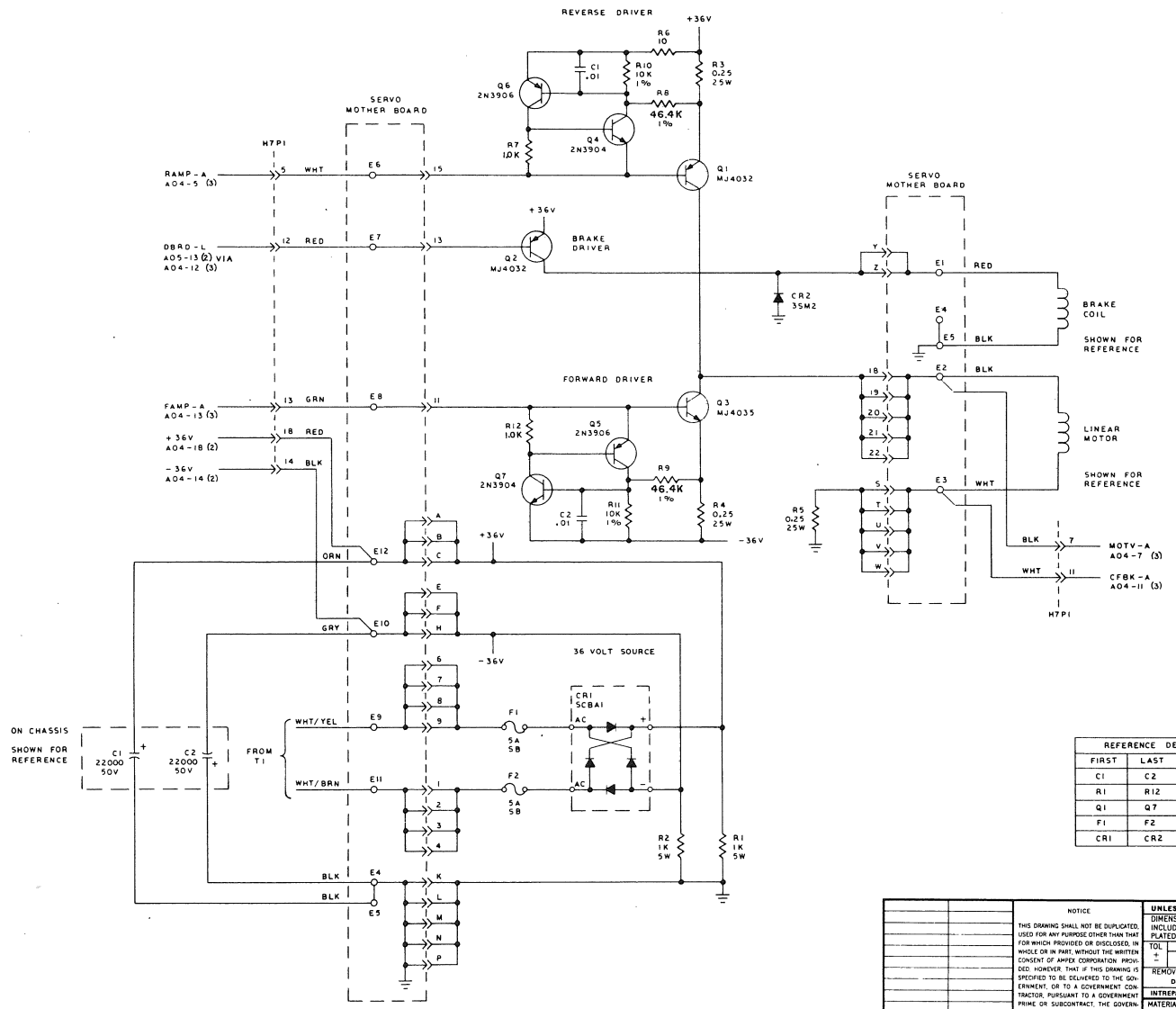
SIZE	CODE IDENT NO.	
D	09150	3305740-01
SCALE NONE		SHEET 2 OF 2

3305740-01

UC-4984-M (REV DEC 71)
PRINTED IN U.S.A.

3305750-01 DISTR CODE:

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
D	1114	CIRCUIT CHANGE	4-22-76		5-4-76
E	1182	CHGD PER ECO	5/11/76		5/11/76
F	1182	CHGD PER ECR 2131	6-9-76		6/11/76
H	1261	CHG REV ONLY			
J	1341	CHG R8, R9			



REFERENCE DESIGNATIONS		
FIRST	LAST	NOT USED
C1	C2	
R1	R12	
Q1	Q7	
F1	F2	
CR1	CR2	

6 Q1-Q3, R3-R5 MOUNTED ON HEATSINK.
5 ALL 1% RESISTORS ARE 1/8W.
4 ALL RESISTORS ARE ±5% ,WATT.
3 ALL CAPACITORS ARE ± 20% 10VDC OR GREATER
2 REFERENCE ASSEMBLY 3305753-01
1 ELECTRICAL VALUES ARE IN OHMS AND MICROFARADS

NOTES: UNLESS OTHERWISE SPECIFIED

3305750-01

PARTS LIST ☐

NOTICE
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NEXT ASSY | USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5

SIGNATURE		DATE
DRAWN BY	J Kryger	4-22-76
CHK BY		
DFT APPD	Wa Stevens	5-4-76
ENGRG APPD	F Hopper	5/4/76
AUTH BY		

MATERIAL:
FINISH:

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

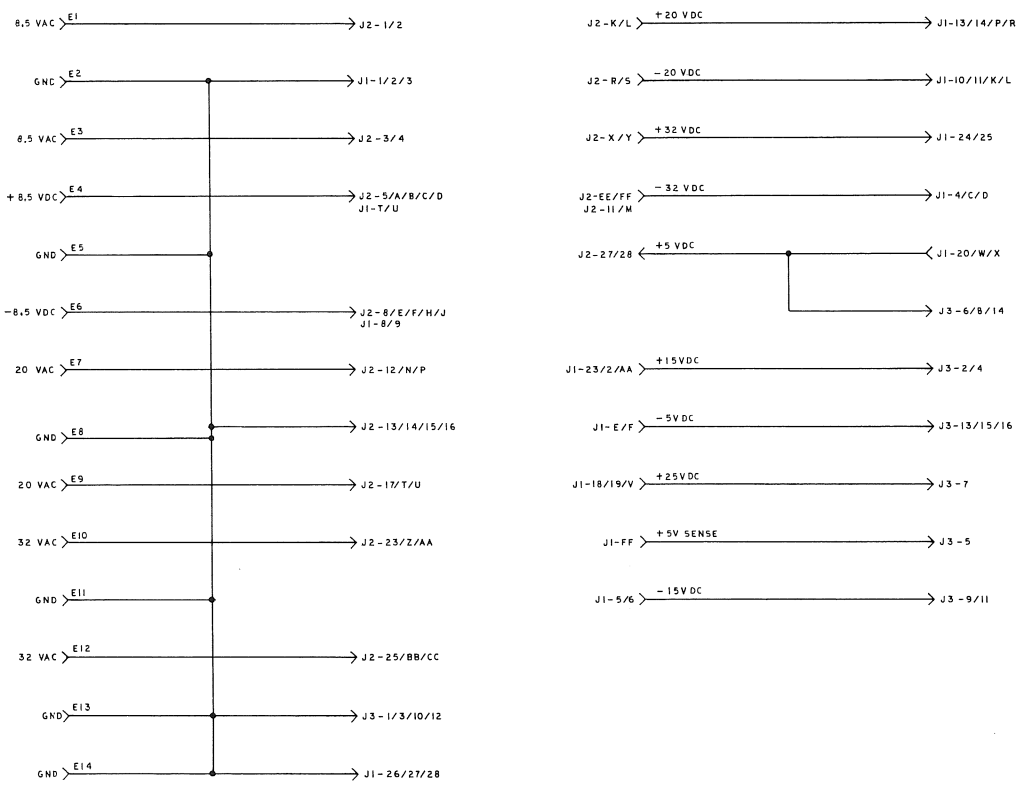
SERVO DRIVER
SDRVR

SIZE	CODE IDENT NO	
D	09150	3305750-01

SCALE — DO NOT SCALE THIS PRINT SHEET 1 OF 1

UC-3364 66 (REV NOV 72) PRINTED IN U.S.A.

REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE (ECR 1554)	10-6-75		



NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NEXT ASSY	USED ON
APPLICATION	

NOTICE

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5

	SIGNATURE	DATE
DRAWN BY	REMY	10/8/75
CHK BY		
DFT APPD	H.A. Sanis	10-10-75
ENGRG APPD	A. Lilly	11/21/75
AUTH BY		

MATERIAL:
FINISH:

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

MOTHER BOARD POWER SUPPLY 940 PSMBD

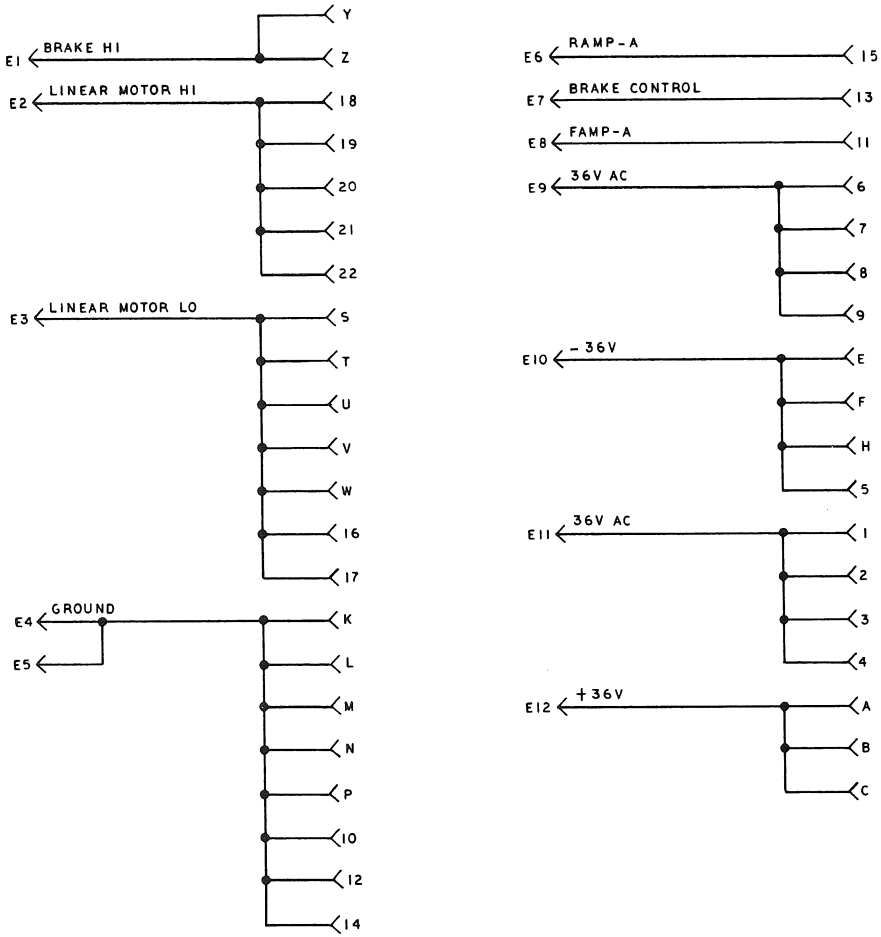
SIZE	CODE IDENT NO.	
D	09150	3305770-01

SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

3305770-01

UC-3504.68 (REV NOV 72) PRINTED IN U.S.A.

REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	10/28/75		



3305830-01

PARTS LIST ☐

NEXT ASSY	USED ON
APPLICATION	

NOTICE

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ±	2 PLC	3 PLC		ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

MATERIAL:

FINISH:

	SIGNATURE	DATE
DRAWN BY	Ramy	10/28/75
CHK BY		
DFT APPD	H. a Francis	11-19-75
ENGRG APPD	A Rossi	11-14-75
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

SERVO MOTHER BOARD

SMBRD

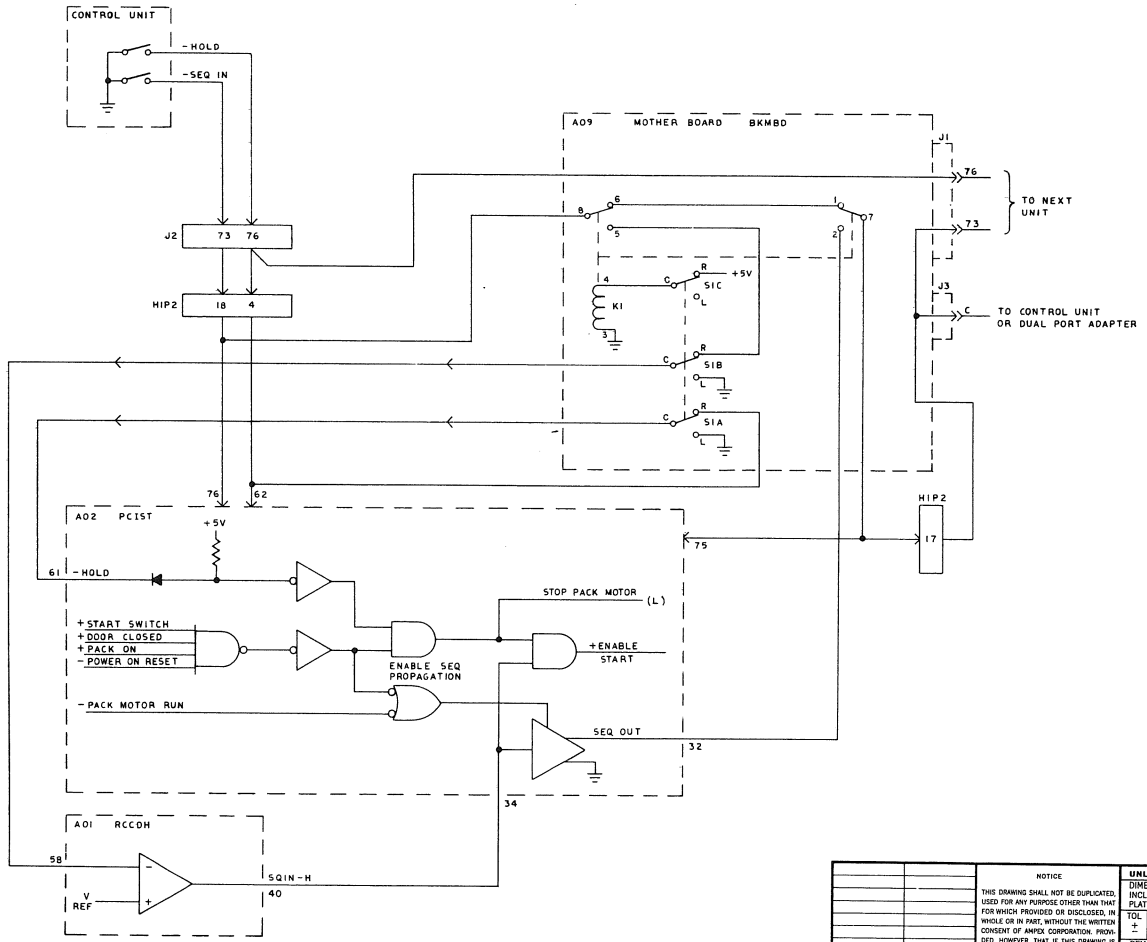
SIZE	CODE IDENT NO.	
C	09150	3305830-01

SCALE NONE SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

3306170-01 | DISTR CODE:

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	7-9-76		7-9-76



1. S1 SHOWN IN REMOTE POSITION
   K1 SHOWN DE-ENERGIZED

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

NOTICE

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5

SIGNATURE		DATE
DRAWN BY	J. Kippen	7-9-76
CHK BY		
DFT APPD	H.A. Thomas	8-9-76
ENGRG APPD		
AUTH BY		

MATERIAL:
FINISH:

NEXT ASSY | USED ON
APPLICATION

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

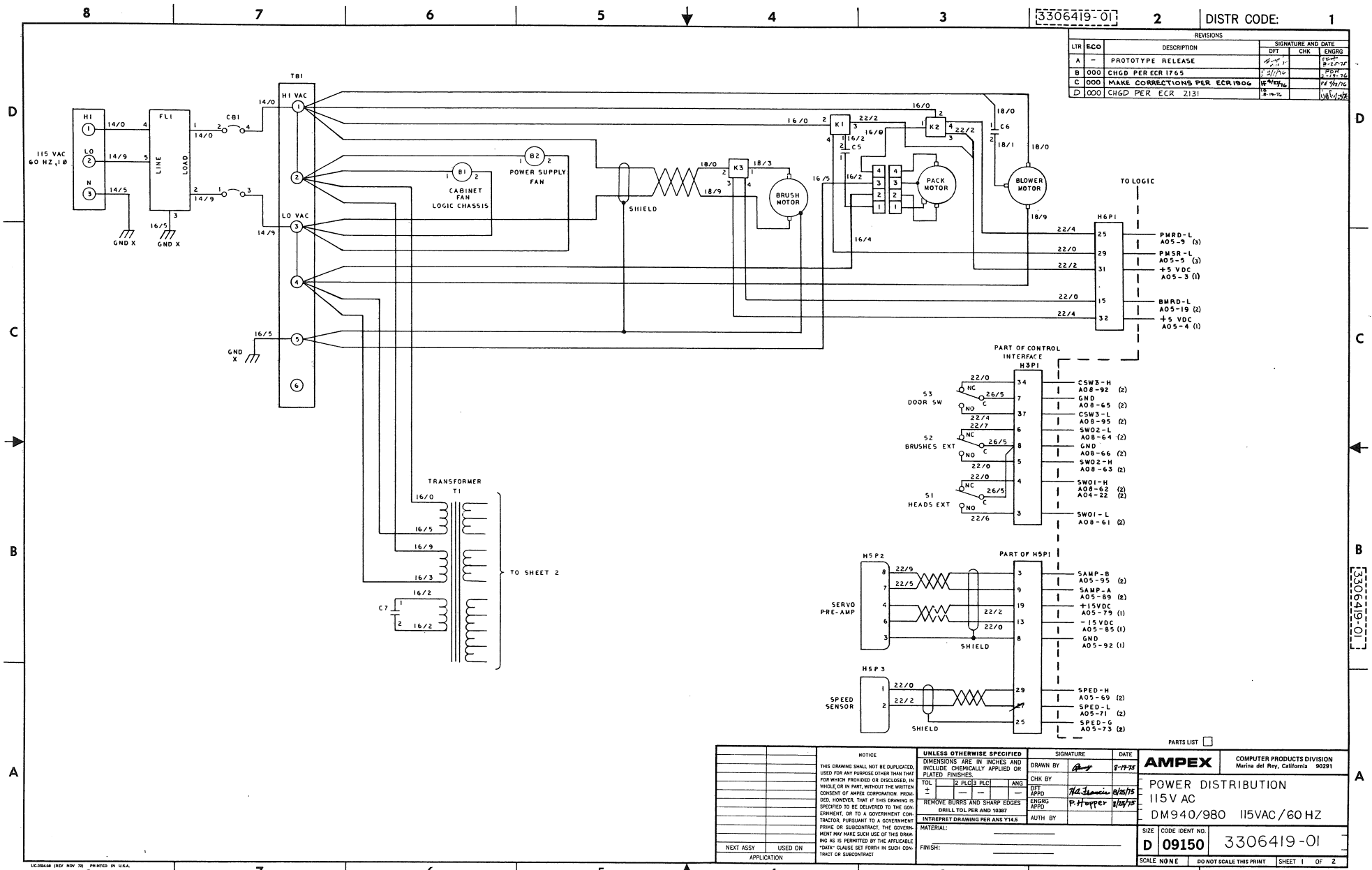
POWER SEQUENCING LOGIC DIAGRAM
RPQ 43

SIZE D | CODE IDENT NO. 09150 | 3306170-01

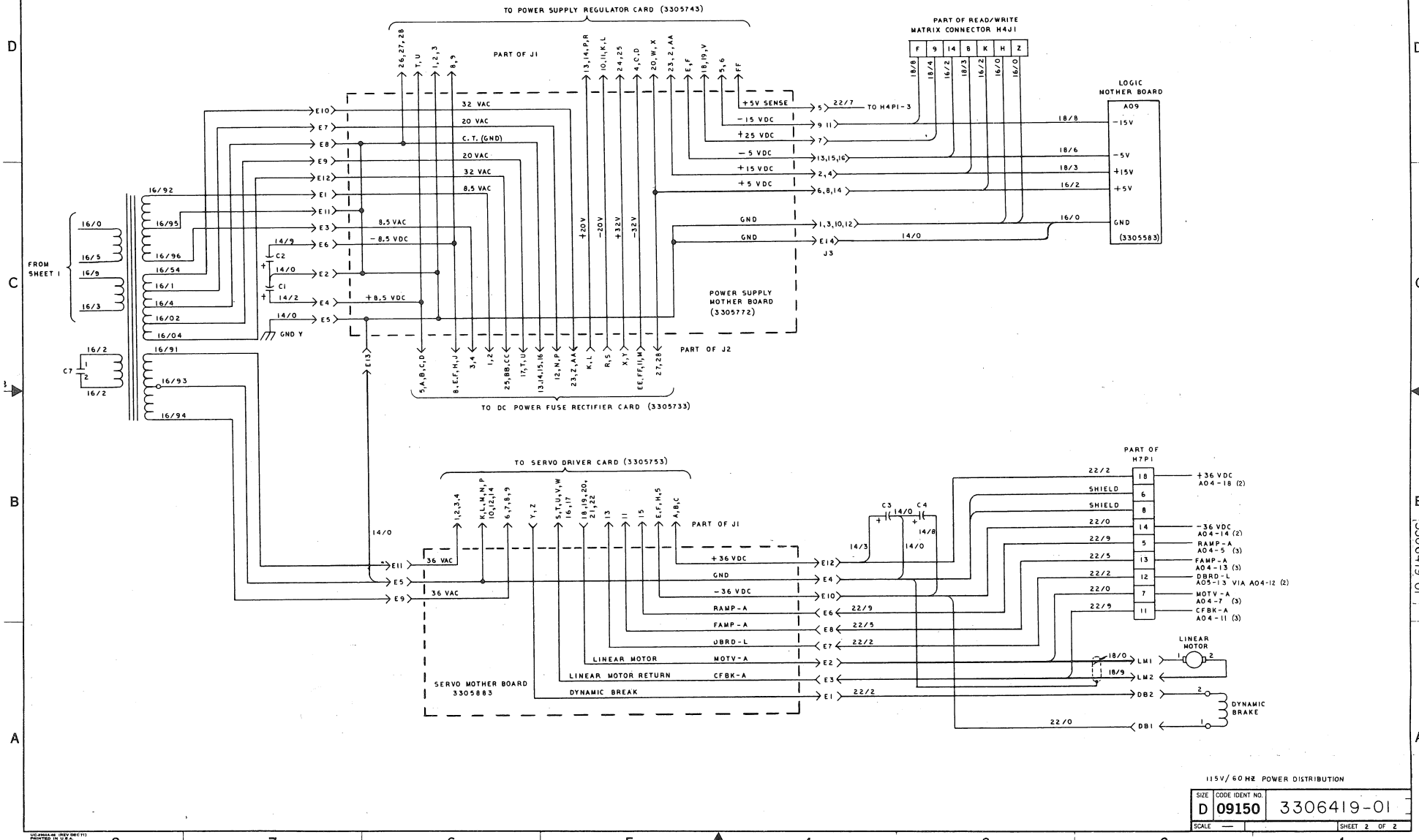
SCALE — | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

3306170-01

UC-30438 (REV NOV 72) PRINTED IN U.S.A.


3306419-01
DISTR CODE:
REVISIONS
LTR ECO DESCRIPTION SIGNATURE AND DATE DFT CHK ENGRG
A - PROTOTYPE RELEASE
B 000 CHGD PER ECR 1765
C 000 MAKE CORRECTIONS PER ECR 1906
D 000 CHGD PER ECR 2131
115 VAC 60 HZ, 1Ø
HI
LO
N
GND X
FL1
LINE
LOAD
CB1
TB1
HI VAC
LO VAC
GND X
B1
CABINET FAN LOGIC CHASSIS
B2
POWER SUPPLY FAN
SHIELD
K3
BRUSH MOTOR
K1
K2
PACK MOTOR
C6
C5
BLOWER MOTOR
TO LOGIC
H6P1
PMRD-L A05-9 (3)
PMSR-L A05-5 (3)
+5 VDC A05-3 (1)
BMRD-L A05-19 (2)
+5 VDC A05-4 (1)
PART OF CONTROL INTERFACE H3P1
S3 DOOR SW
S2 BRUSHES EXT
S1 HEADS EXT
CSW3-H A08-92 (2)
GND A08-65 (2)
CSW3-L A08-95 (2)
SWO2-L A08-64 (2)
GND A08-66 (2)
SWO2-H A08-63 (2)
SWO1-H A08-62 (2) A04-22 (2)
SWO1-L A08-61 (2)
TRANSFORMER T1
C7
TO SHEET 2
H5P2
SERVO PRE-AMP
PART OF H5P1
SAMP-B A05-95 (2)
SAMP-A A05-89 (2)
+15VDC A05-79 (1)
-15 VDC A05-85 (1)
GND A05-92 (1)
H5P3
SPEED SENSOR
SPED-H A05-69 (2)
SPED-L A05-71 (2)
SPED-G A05-73 (2)
PARTS LIST
NOTICE
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NEXT ASSY USED ON
APPLICATION
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± 2 PLC 3 PLC ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:
SIGNATURE DATE
DRAWN BY 8-19-75
CHK BY
QA
APPD 8/25/75
ENGRG APPD 8/25/75
AUTH BY
AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291
POWER DISTRIBUTION
115 V AC
DM940/980 115VAC/60 HZ
SIZE D CODE IDENT NO. 09150 3306419-01
SCALE NONE DO NOT SCALE THIS PRINT SHEET 1 OF 2
UC-3304.68 (REV NOV 72) PRINTED IN U.S.A.

REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE		
			DFTG	CHK	ENGRG



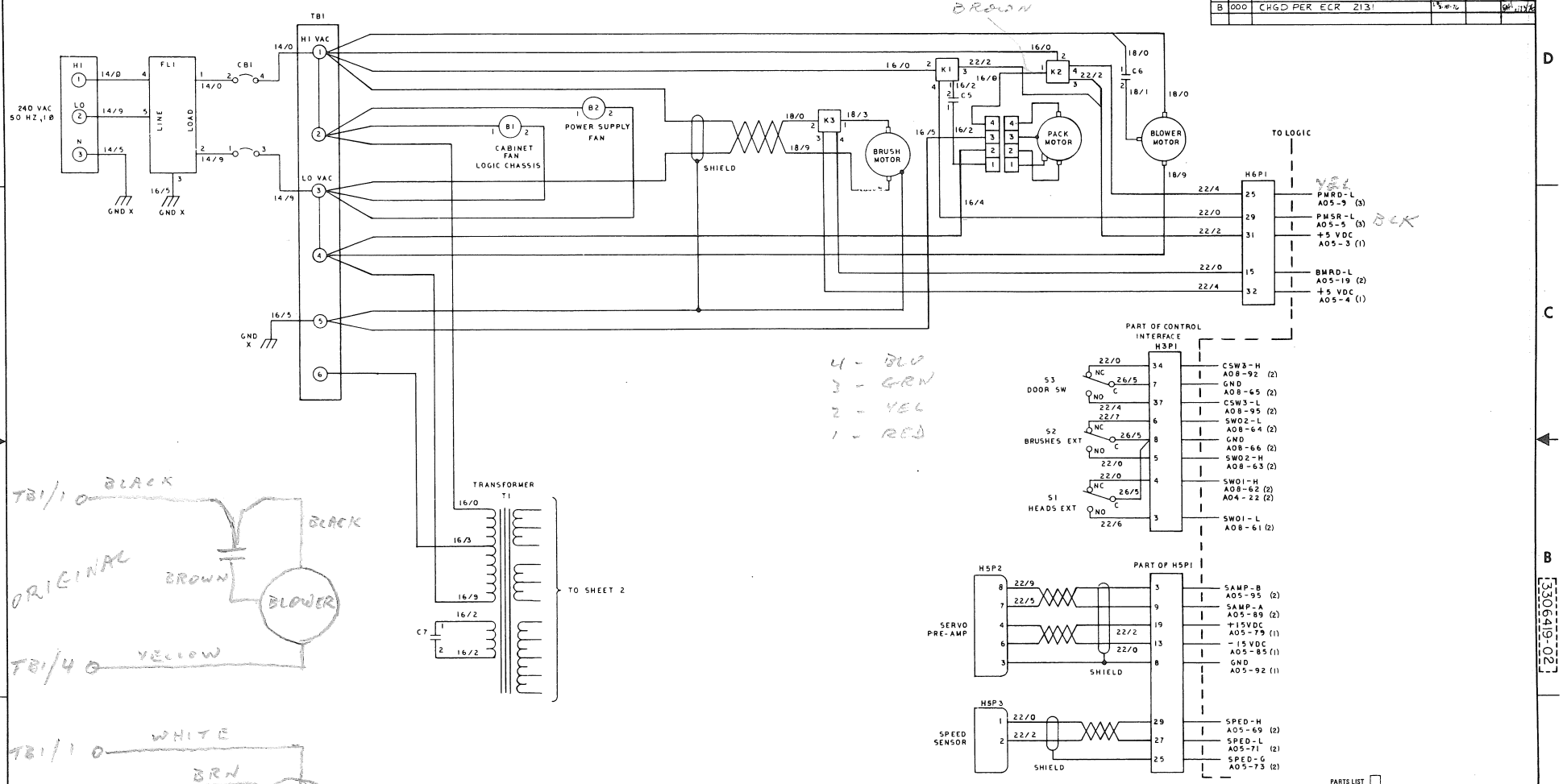
115V/60HZ POWER DISTRIBUTION

SIZE	CODE IDENT NO.	
D	09150	3306419-01
SCALE —		SHEET 2 OF 2

3306419-01

3306419-02 | DISTR CODE:

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	7-26-76		7-27-76
B	000	CHGD PER ECR 2131	8-10-76		8-11-76



PARTS LIST ☐

NOTICE: THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT

NEXT ASSY | USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL
FINISH:

SIGNATURE		DATE
DRAWN BY		7-26-76
CHK BY		
DFT APPD		7-28-76
ENGRG APPD		7-27-76
AUTH BY		

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

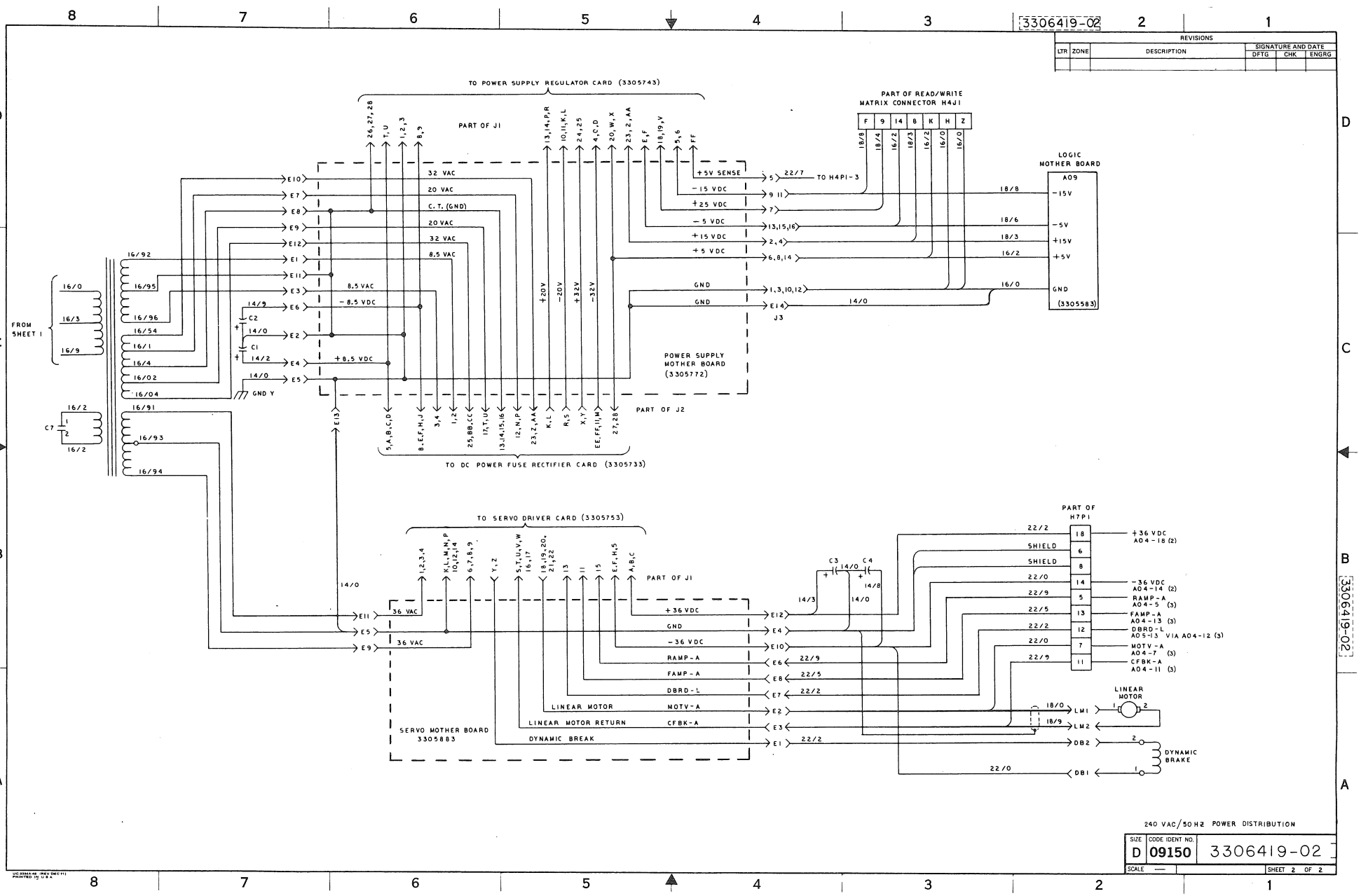
POWER DISTRIBUTION
240 VAC
DM940/980 50 HZ

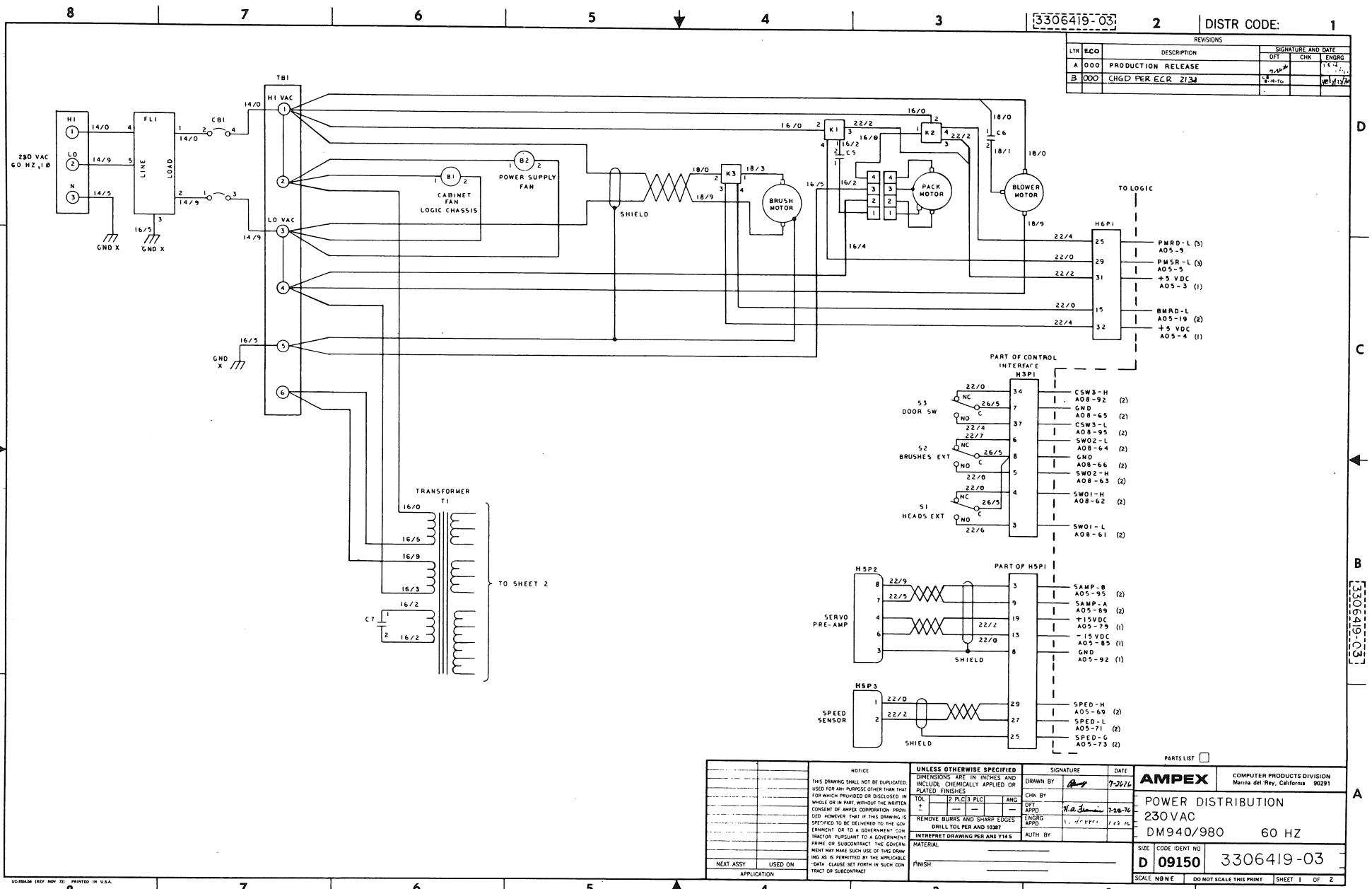
SIZE D | CODE IDENT NO 09150 | 3306419-02

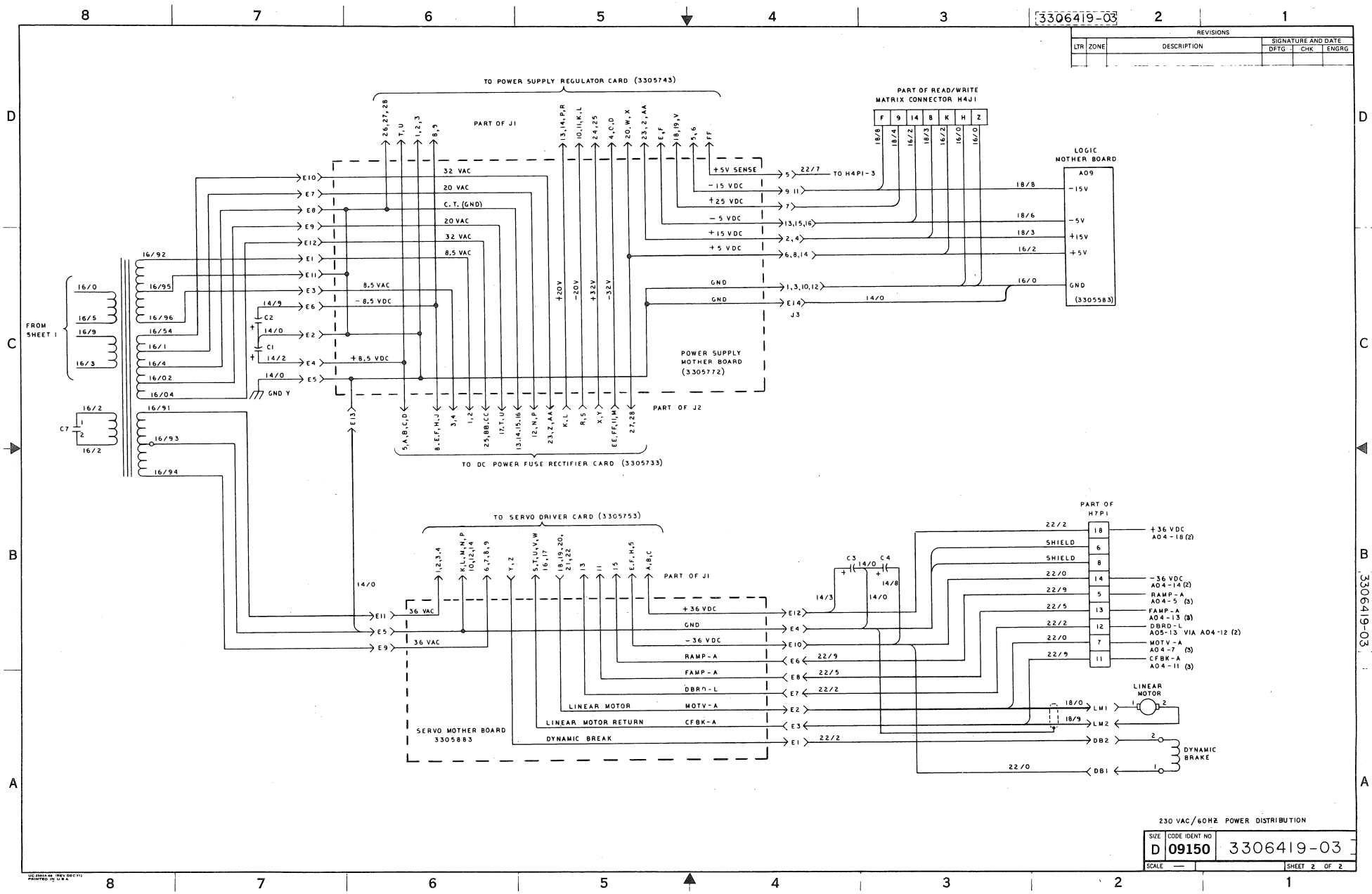
SCALE NONE | DO NOT SCALE THIS PRINT | SHEET 1 OF 2

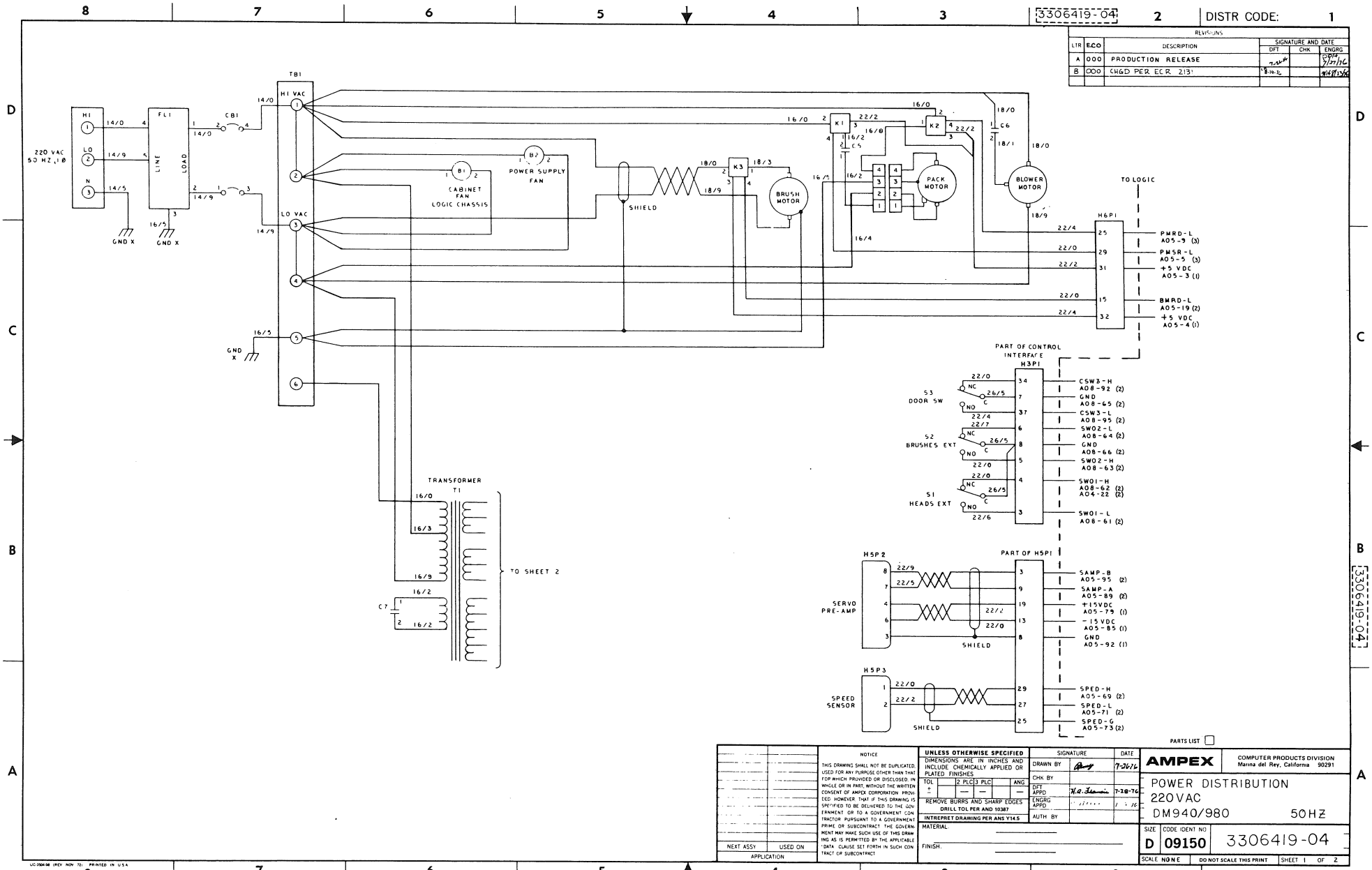
UC-3904.00 (REV NOV 72) PRINTED IN U.S.A.

3306419-02

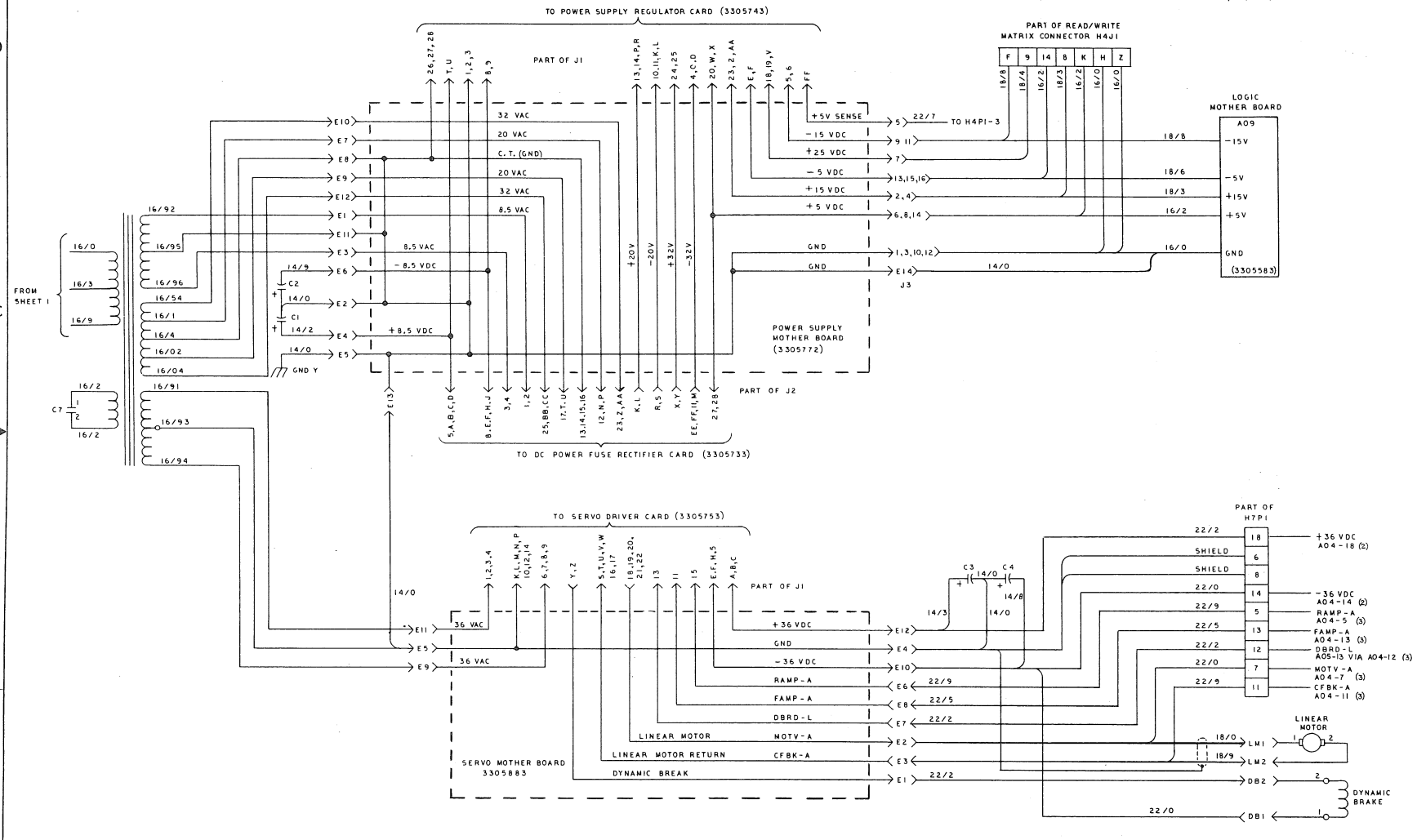

3306419-02
REVISIONS
LTR | ZONE | DESCRIPTION | SIGNATURE AND DATE | DFTG | CHK | ENGRG
TO POWER SUPPLY REGULATOR CARD (3305743)
PART OF J1
PART OF READ/WRITE MATRIX CONNECTOR H4J1
LOGIC MOTHER BOARD
A09
(3305583)
FROM SHEET 1
POWER SUPPLY MOTHER BOARD (3305772)
PART OF J2
TO DC POWER FUSE RECTIFIER CARD (3305733)
32 VAC
20 VAC
C.T. (GND)
20 VAC
32 VAC
8.5 VAC
8.5 VAC
-8.5 VDC
+8.5 VDC
GND Y
+5V SENSE
-15 VDC
+25 VDC
-5 VDC
+15 VDC
+5 VDC
GND
GND
TO H4P1-3
J3
-15V
-5V
+15V
+5V
GND
TO SERVO DRIVER CARD (3305753)
PART OF J1
SERVO MOTHER BOARD 3305883
36 VAC
36 VAC
+36 VDC
GND
-36 VDC
RAMP-A
FAMP-A
DBRD-L
LINEAR MOTOR
MOTV-A
LINEAR MOTOR RETURN
CFBK-A
DYNAMIC BREAK
PART OF H7P1
SHIELD
SHIELD
+36 VDC A04-18 (2)
-36 VDC A04-14 (2)
RAMP-A A04-5 (3)
FAMP-A A04-13 (3)
DBRD-L A05-13 VIA A04-12 (3)
MOTV-A A04-7 (3)
CFBK-A A04-11 (3)
LINEAR MOTOR
LM1
LM2
DB2
DB1
DYNAMIC BRAKE
240 VAC/50 HZ POWER DISTRIBUTION
SIZE D | CODE IDENT NO. 09150 | 3306419-02
SCALE — | SHEET 2 OF 2


3306419-03
DISTR CODE:
REVISIONS
LTR ECO DESCRIPTION SIGNATURE AND DATE DFT CHK ENGRG
A 000 PRODUCTION RELEASE
B 000 CHGD PER ECR 213
230 VAC 60 HZ, 1Ø
HI
LO
N
FL1
LINE
LOAD
CB1
GND X
TB1
HI VAC
LO VAC
CABINET FAN LOGIC CHASSIS
B1
B2
POWER SUPPLY FAN
SHIELD
K3
BRUSH MOTOR
K1
K2
PACK MOTOR
BLOWER MOTOR
C5
C6
TO LOGIC
H6P1
PWRD-L (3) A05-9
PWSR-L (3) A05-5
+5 VDC A05-3 (1)
BMRD-L A05-19 (2)
+5 VDC A05-4 (1)
PART OF CONTROL INTERFACE
H3P1
S3 DOOR SW
S2 BRUSHES EXT
S1 HEADS EXT
NC
NO
C
CSW3-H A08-92 (2)
GND A08-65 (2)
CSW3-L A08-95 (2)
SWO2-L A08-64 (2)
GND A08-66 (2)
SWO2-H A08-63 (2)
SWO1-H A08-62 (2)
SWO1-L A08-61 (2)
TRANSFORMER
T1
C7
TO SHEET 2
H5P2
SERVO PRE-AMP
SAMP-B A05-95 (2)
SAMP-A A05-89 (2)
+15VDC A05-79 (1)
-15 VDC A05-85 (1)
GND A05-92 (1)
PART OF H5P1
H5P3
SPEED SENSOR
SPED-H A05-69 (2)
SPED-L A05-71 (2)
SPED-G A05-73 (2)
PARTS LIST
NOTICE
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
TOL 2 PLC 3 PLC ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANS 10.87
INTREPRET DRAWING PER ANS Y14.5
MATERIAL
FINISH
SIGNATURE DATE
DRAWN BY 7-26-76
CHK BY
DFT APPD 7-28-76
ENGRG APPD
AUTH BY
NEXT ASSY USED ON
APPLICATION
AMPEX
COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291
POWER DISTRIBUTION
230VAC
DM940/980 60 HZ
SIZE D
CODE IDENT NO 09150
3306419-03
SCALE NONE
DO NOT SCALE THIS PRINT
SHEET 1 OF 2
UC-3004.66 (REV. NOV. 72) PRINTED IN U.S.A.


3306419-03
REVISIONS
LTR ZONE DESCRIPTION SIGNATURE AND DATE DFTG CHK ENGRG
TO POWER SUPPLY REGULATOR CARD (3305743)
PART OF J1
PART OF READ/WRITE MATRIX CONNECTOR H4J1
F 9 14 B K H Z
LOGIC MOTHER BOARD
A09
-15V
-5V
+15V
+5V
GND
(3305583)
+5V SENSE
-15 VDC
+25 VDC
-5 VDC
+15 VDC
+5 VDC
GND
GND
TO H4P1-3
J3
32 VAC
20 VAC
C.T. (GND)
20 VAC
32 VAC
8.5 VAC
8.5 VAC
-8.5 VDC
+8.5 VDC
GND Y
+20V
-20V
+32V
-32V
FROM SHEET 1
POWER SUPPLY MOTHER BOARD (3305772)
PART OF J2
TO DC POWER FUSE RECTIFIER CARD (3305733)
TO SERVO DRIVER CARD (3305753)
PART OF J1
36 VAC
36 VAC
+36 VDC
GND
-36 VDC
RAMP-A
FAMP-A
DBRD-L
MOTV-A
CFBK-A
LINEAR MOTOR
LINEAR MOTOR RETURN
DYNAMIC BREAK
SERVO MOTHER BOARD 3305883
PART OF H7P1
+36 VDC A04-18 (2)
SHIELD
SHIELD
-36 VDC A04-14 (2)
RAMP-A A04-5 (3)
FAMP-A A04-13 (3)
DBRD-L A05-13 VIA A04-12 (2)
MOTV-A A04-7 (3)
CFBK-A A04-11 (3)
LINEAR MOTOR
LM1
LM2
DB2
DB1
DYNAMIC BRAKE
230 VAC/60HZ POWER DISTRIBUTION
SIZE D
CODE IDENT NO 09150
3306419-03
SCALE —
SHEET 2 OF 2
3306419-03


3306419-04
DISTR CODE:
REVISIONS
LTR ECO DESCRIPTION SIGNATURE AND DATE DFT CHK ENGRG
A 000 PRODUCTION RELEASE
B 000 CHGD PER ECR 2131
TB1
HI VAC
LO VAC
220 VAC 50 HZ, 1Ø
HI
LO
N
FL1
LINE
LOAD
CB1
GND X
CABINET FAN LOGIC CHASSIS
B1
POWER SUPPLY FAN
B2
SHIELD
K1
K2
K3
C5
C6
BRUSH MOTOR
PACK MOTOR
BLOWER MOTOR
TO LOGIC
H6P1
PMRD-L A05-9 (3)
PMSR-L A05-5 (3)
+5 VDC A05-3 (1)
BMRD-L A05-19 (2)
+5 VDC A05-4 (1)
PART OF CONTROL INTERFACE
H3P1
S3 DOOR SW
S2 BRUSHES EXT
S1 HEADS EXT
CSW3-H A08-92 (2)
GND A08-65 (2)
CSW3-L A08-95 (2)
SWO2-L A08-64 (2)
GND A08-66 (2)
SWO2-H A08-63 (2)
SWO1-H A08-62 (2) A04-22 (2)
SWO1-L A08-61 (2)
TRANSFORMER T1
C7
TO SHEET 2
H5P2
SERVO PRE-AMP
PART OF H5P1
SAMP-B A05-95 (2)
SAMP-A A05-89 (2)
+15VDC A05-79 (1)
-15 VDC A05-85 (1)
GND A05-92 (1)
H5P3
SPEED SENSOR
SPED-H A05-69 (2)
SPED-L A05-71 (2)
SPED-G A05-73 (2)
PARTS LIST
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
TOL ± | 2 PLC | 3 PLC | ANG —
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL
FINISH
SIGNATURE DATE
DRAWN BY 7-26-76
CHK BY
DFT APPD 7-28-76
ENGRG APPD
AUTH BY
NEXT ASSY USED ON
APPLICATION
AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291
POWER DISTRIBUTION
220VAC
DM940/980 50HZ
SIZE D
CODE IDENT NO 09150
3306419-04
SCALE NONE
DO NOT SCALE THIS PRINT
SHEET 1 OF 2
UC-3504-08 (REV. NOV. 72) PRINTED IN U.S.A.

REVISIONS					
LTR	ZONE	DESCRIPTION	SIGNATURE AND DATE	DFTG	CHK	ENGRG



220 VAC/50HZ POWER DISTRIBUTION

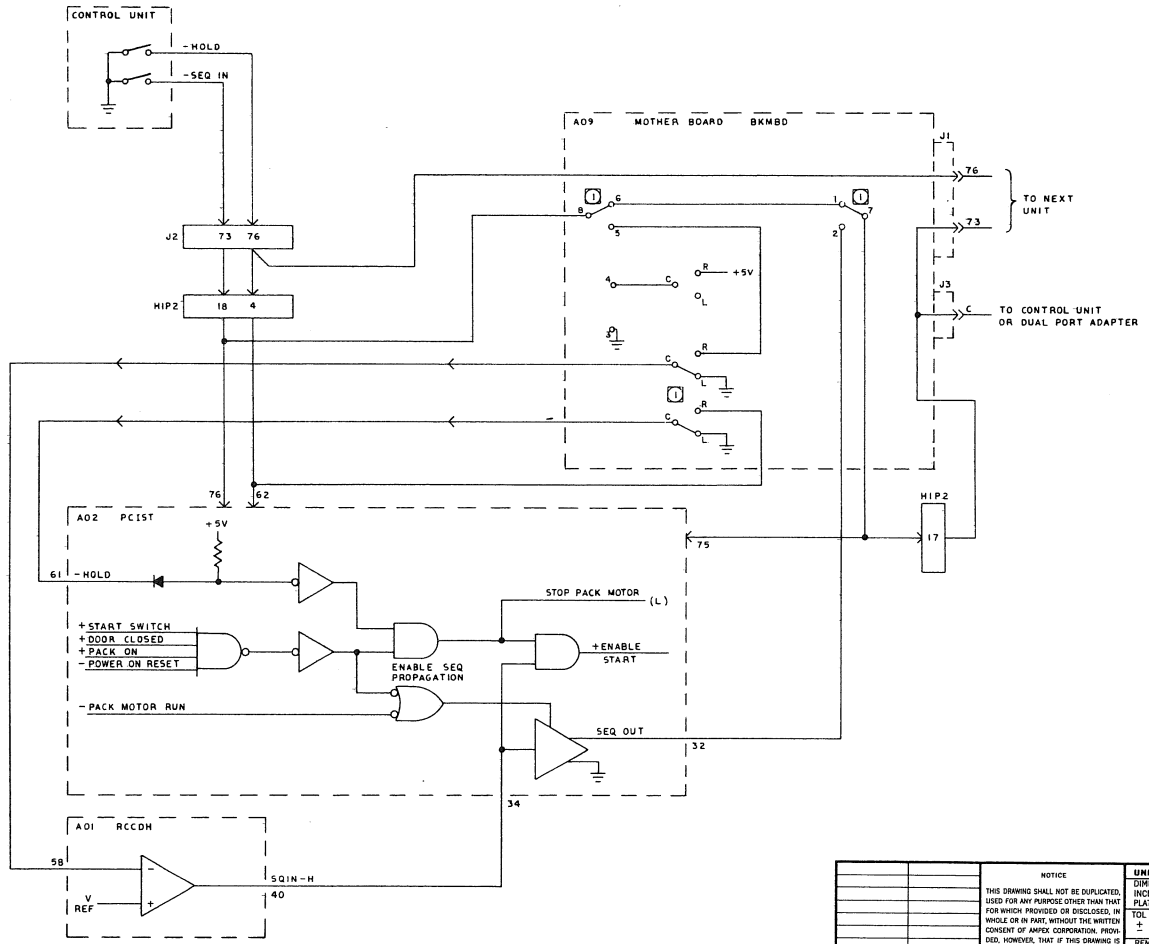
SIZE	CODE IDENT NO.	
D	09150	3306419-04
SCALE —		SHEET 2 OF 2

LIC-83044-M5 (REV DEC'71)
PRINTED IN U.S.A.

3308048-01

DISTR CODE:

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	7-6-76		



[1] TERMINALS 1-7, 6-8 AND C-L HAVE JUMPERS

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐

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NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER AND 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL:
FINISH:

SIGNATURE		DATE
DRAWN BY	G. Kopp	7-4-76
CHK BY		
DFT APPD	W. A. Francis	8-4-76
ENGRG APPD	[illegible]	[illegible]
AUTH BY		

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

POWER SEQUENCING LOGIC DIAGRAM

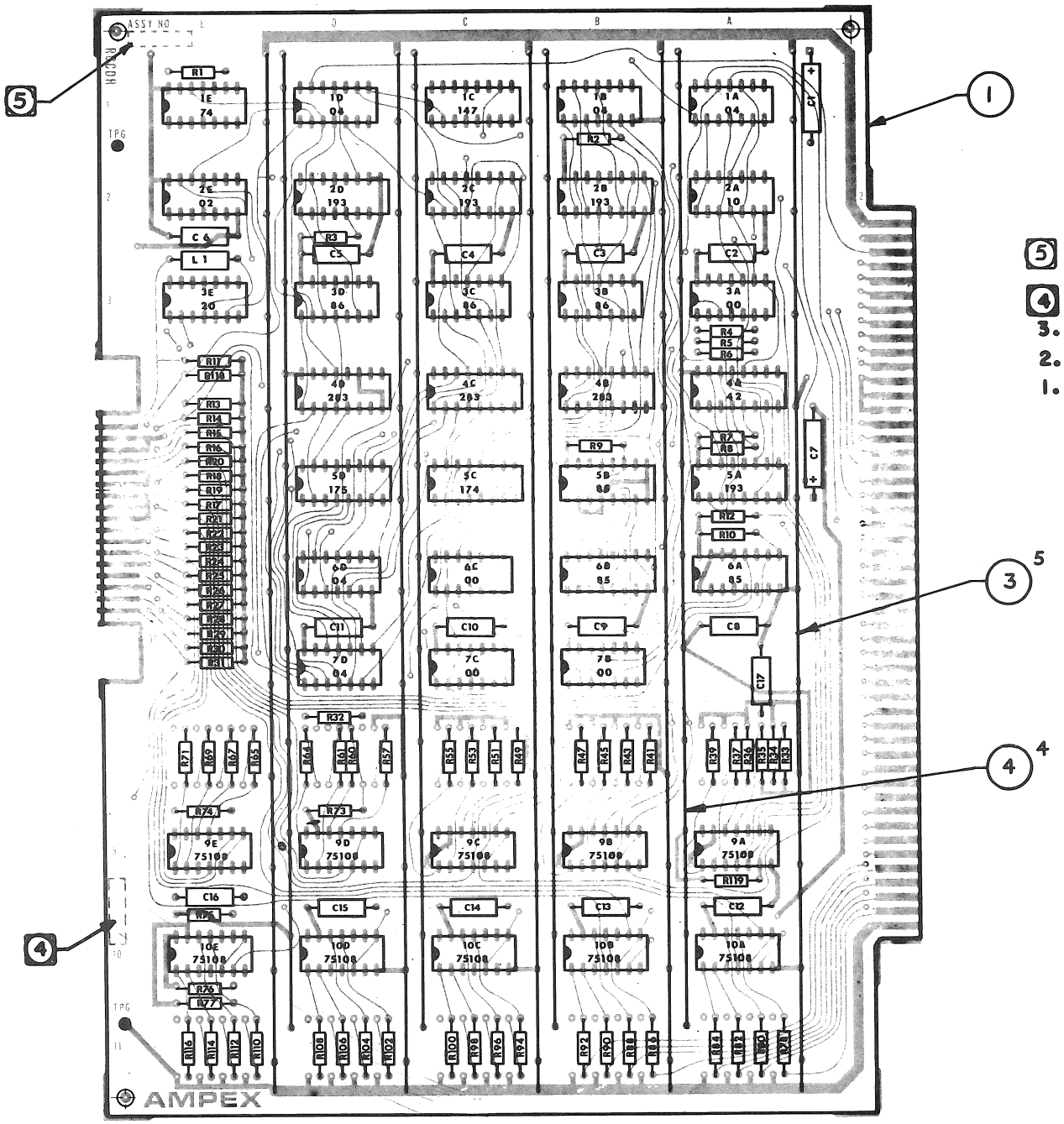
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D	09150	3308048-01

SCALE — | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UC-3304.00 (REV NOV 73) PRINTED IN U.S.A.

ASSEMBLY DRAWINGS

The circuit board assembly drawings are arranged in numerical sequence according to their Ampex part numbers. Refer to the table of contents for the mnemonic designations and part numbers of each assembly drawing.



5 MARK ASSY No. 3307103 WHERE SHOWN.

4 LOCATION OF ASSY ECN LEVEL

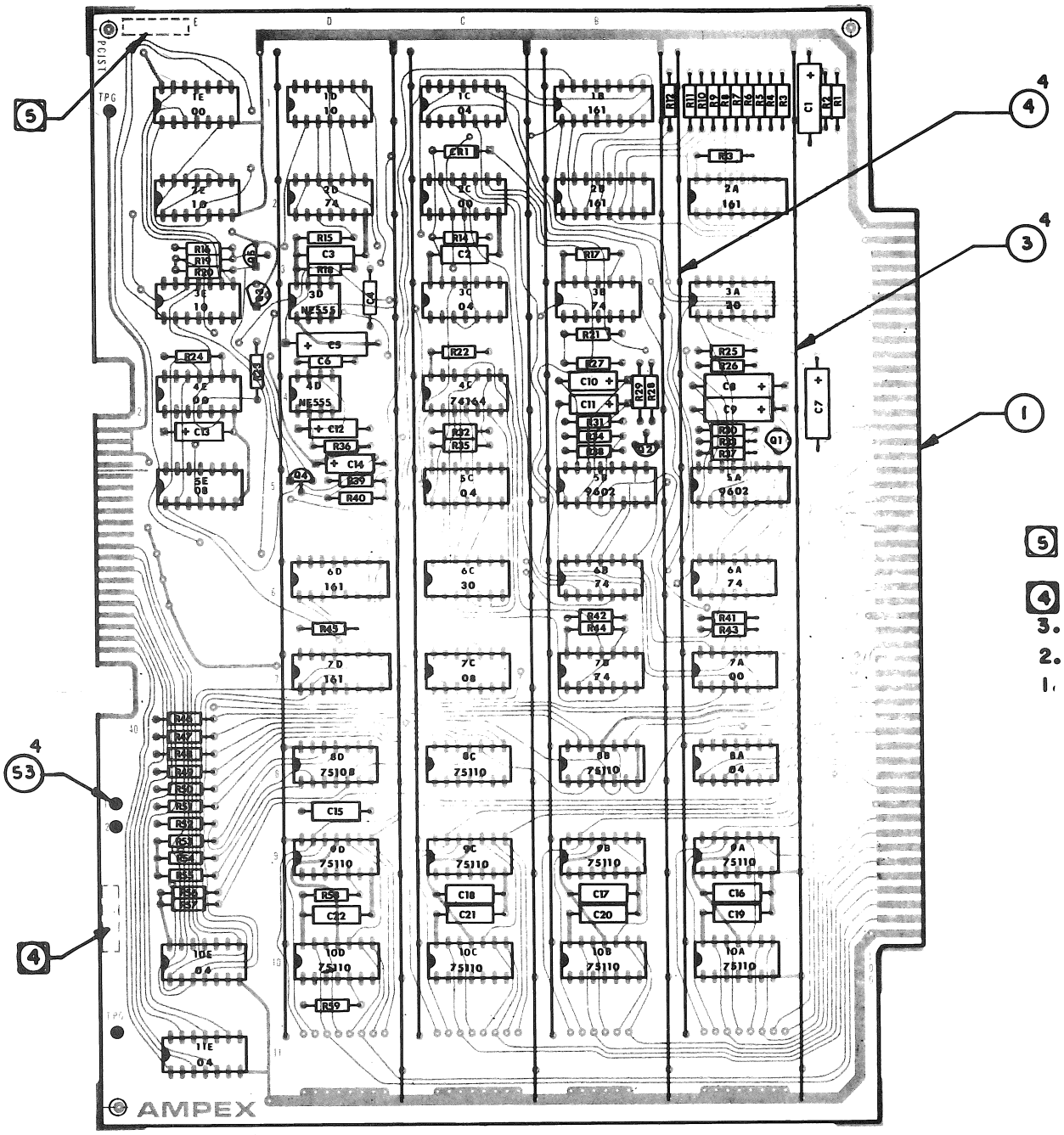
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3307100

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

REC/CAR/DIFF/HAR/CONTROL, DAISY CHAIN OPTION (RCCDH)
3307103-01



5 MARK ASSY NO. 3307123 WHERE SHOWN.

4 LOCATION OF ASSY ECN LEVEL

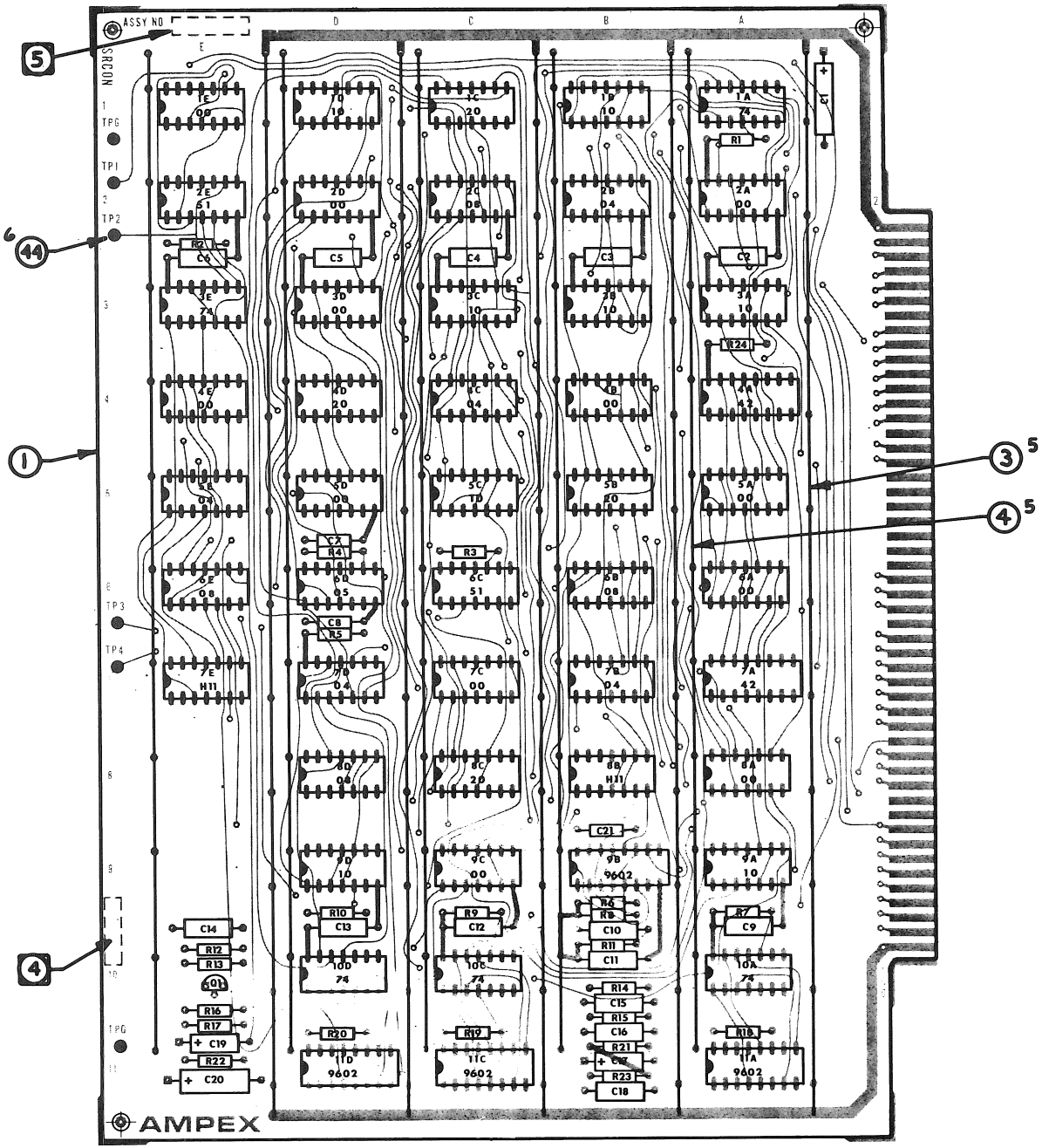
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3307120

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

PACK CONTROL/INDEX/SECTOR XMTR WITH DAISY CHAIN OPTION & SECTOR COUNTER OPTION (PCIST)
3307123-01



5 MARK ASSY NO. 3305513 WHERE SHOWN.

4 LOCATION OF ASSY ECN LEVEL

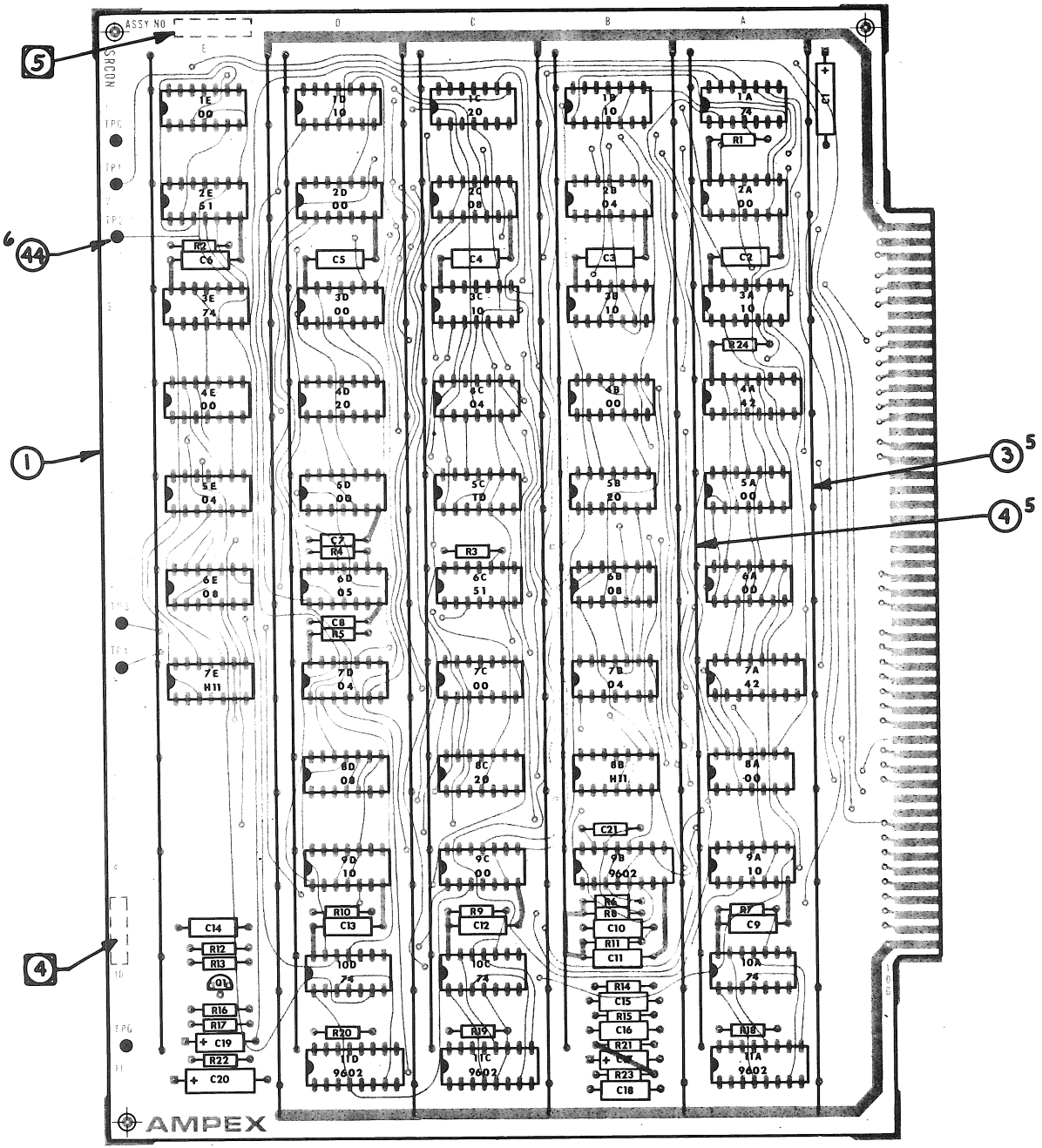
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305510

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

SERVO CONTROL ASSEMBLY, DM940 (SRCON)
3305513-01



5 MARK ASSY NO. 3306013 WHERE SHOWN.

4 LOCATION OF ASSY ECN LEVEL

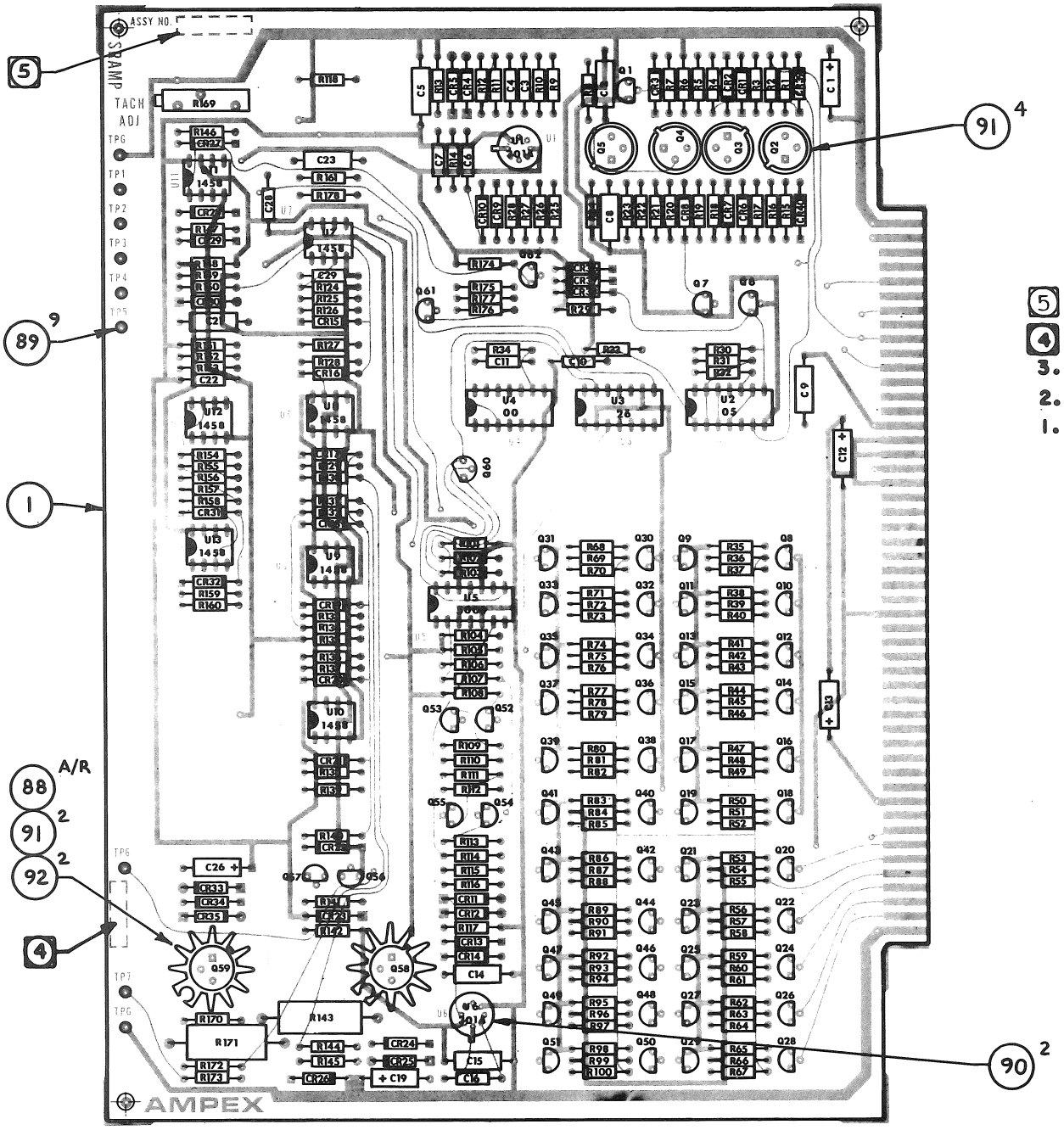
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3306010

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

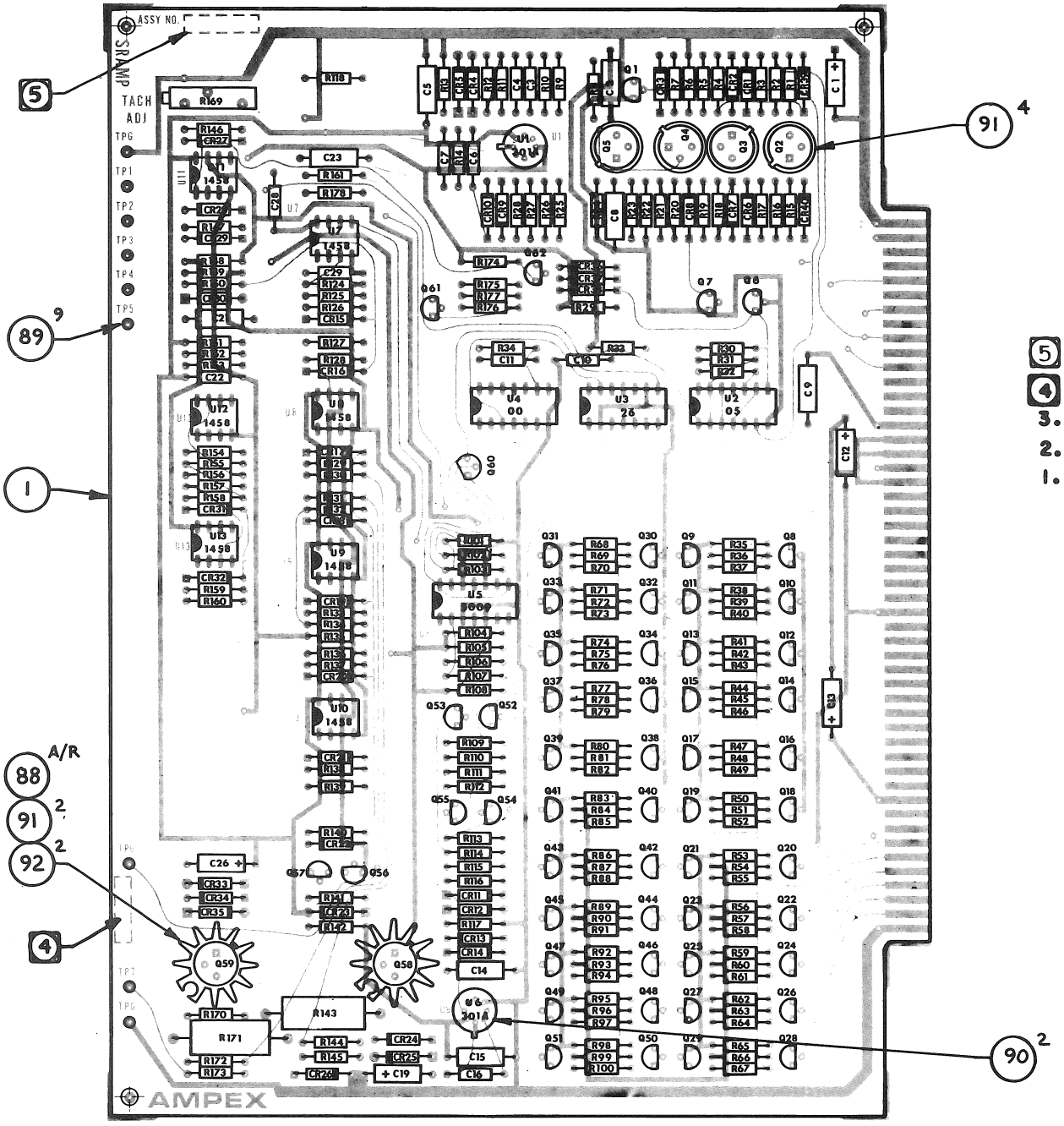
SERVO CONTROL ASSEMBLY, DM980 (SRCON)
3306013-01



5. MARK ASSY NO. 3305613 WHERE SHOWN.
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3305610
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

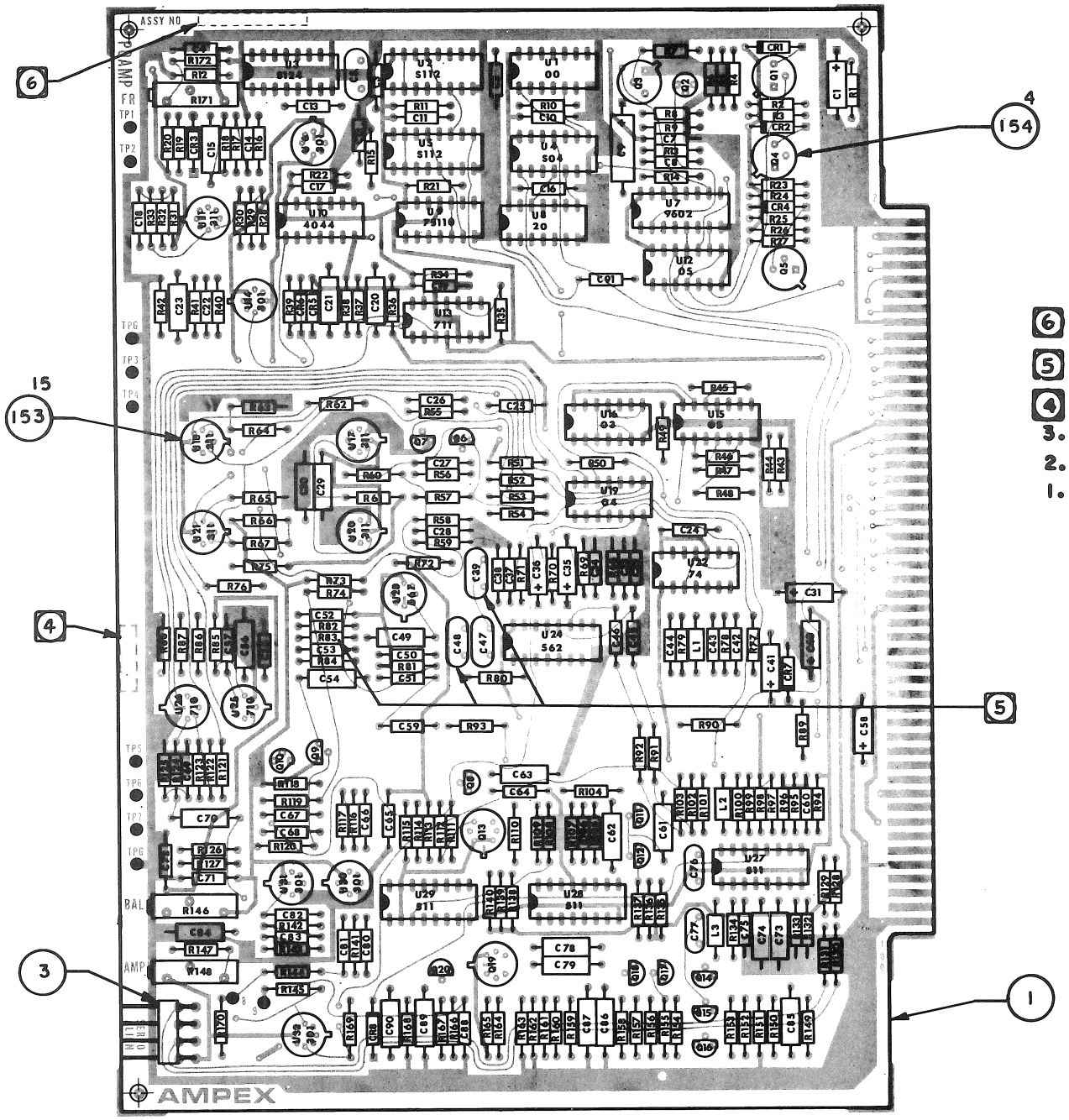
SERVO AMPLIFIER AND POWER FAIL ASSEMBLY (SRAMP)
3305613-01



5. MARK ASSY NO. 3306003 WHERE SHOWN.
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3306000
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

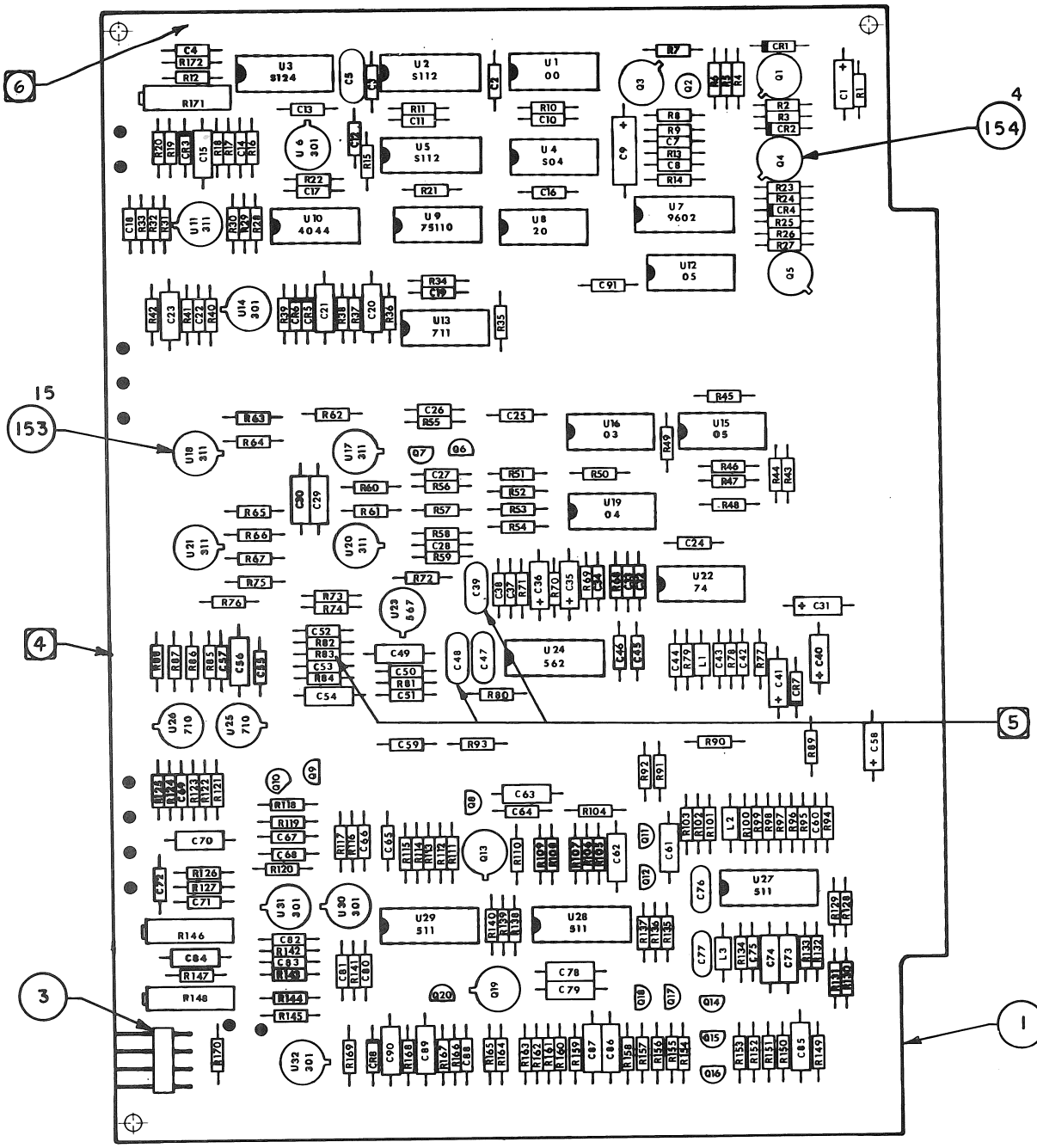
SERVO AMPLIFIER AND POWER FAIL ASSEMBLY
(SRAMP)
3306003-01



6. MARK ASSY NO. 3305683 WHERE SHOWN.
5. INSTALLED AS REQUIRED AT BOARD TEST.
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3305680
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

POSITION AMPLIFIER ASSEMBLY (POAMP)
3305683-01



6 MARK ASSY NO. 3305913 WHERE SHOWN.

5 INSTALLED AS REQUIRED AT BOARD TEST.

4 LOCATION OF ASSY ECN LEVEL

3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305910

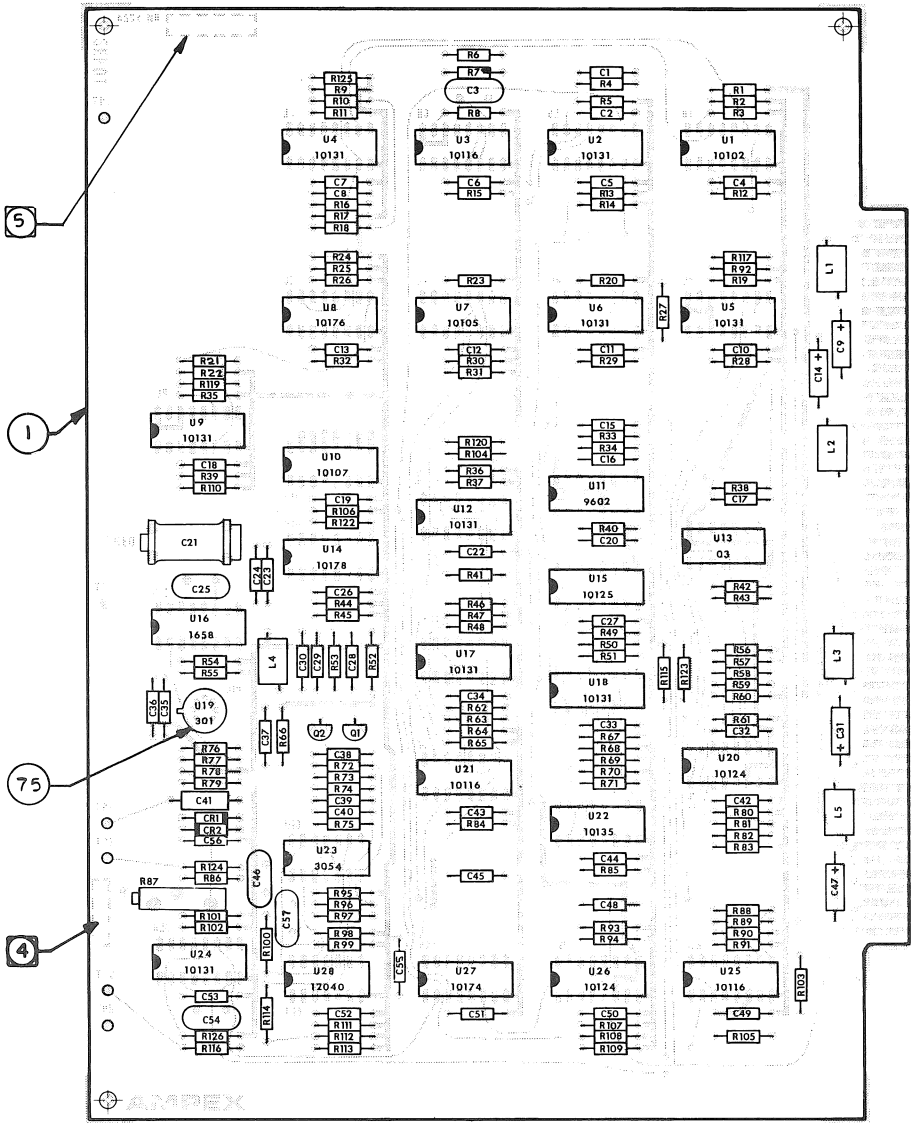
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

POSITION AMPLIFIER ASSEMBLY (POAMP)
3305913-01

3306233-01

DISTR CODE: DG



5. MARK ASSY NO 3306233 WHERE SHOWN.

4. LOCATION OF ASSY ECN LEVEL

3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3306230

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

DRAWN BY	J. KOOPMAN	11/80/JC	ENGRG APPD	JEPSEN	
CHK BY			AUTH BY		
DFT APPD					

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

DATA SEPARATOR
SEPDT

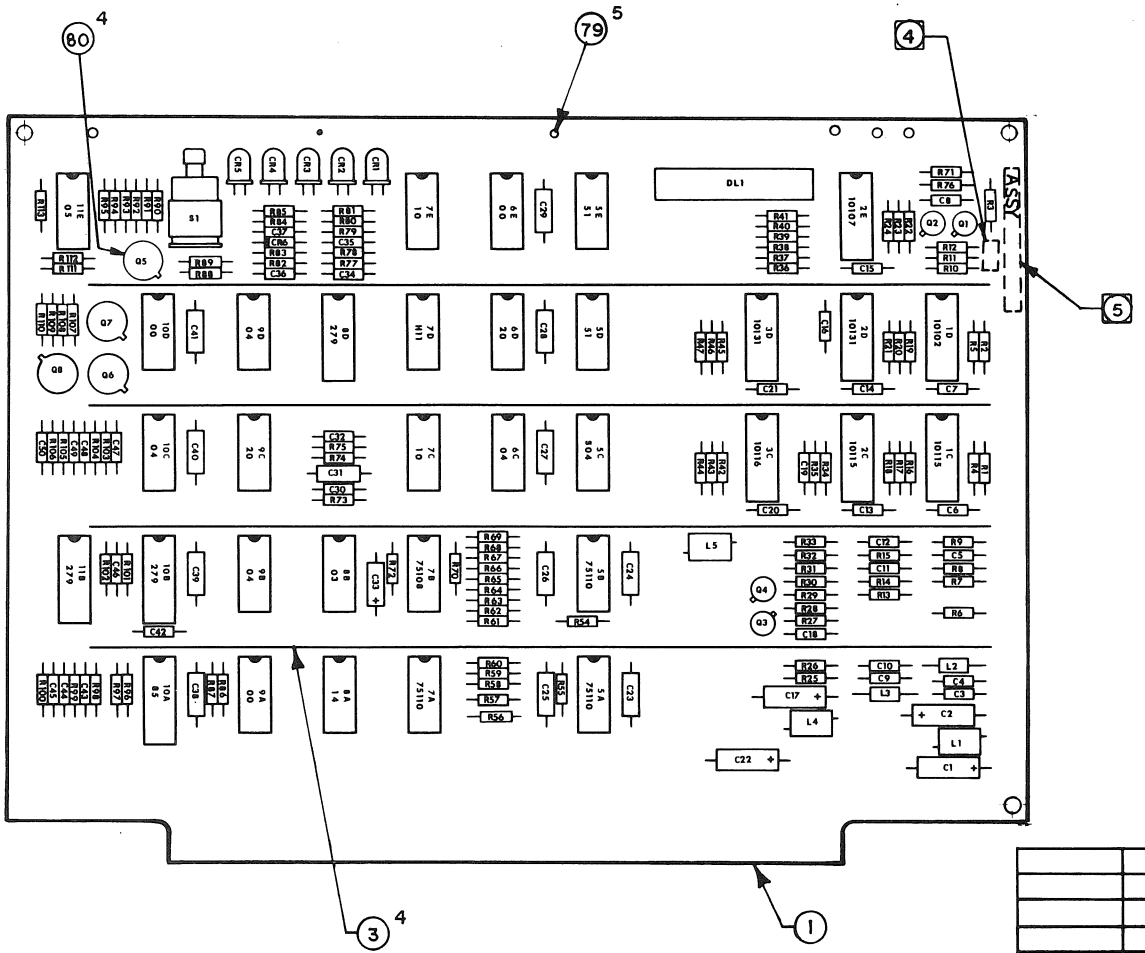
SIZE	CODE IDENT NO.	
B	09150	3306233-01

SCALE 1/1 SHEET 1 OF 1

UC-3502.08 (Rev Dec 71) Printed in U.S.A.

3305573-01

DISTR CODE: DG



5 MARK ASSY NO 3305573-01 PER MIL-STD-130.

4. MARK ASSEMBLY REVISION LEVEL.

3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305570.

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN P/L.

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST

DRAWN BY	REMBY	6/5/76	ENGRG APPD	J. DeYoung	8-6-76
CHK BY			AUTH BY		
DFT APPD					

AMPEX DATA PRODUCTS DIVISION

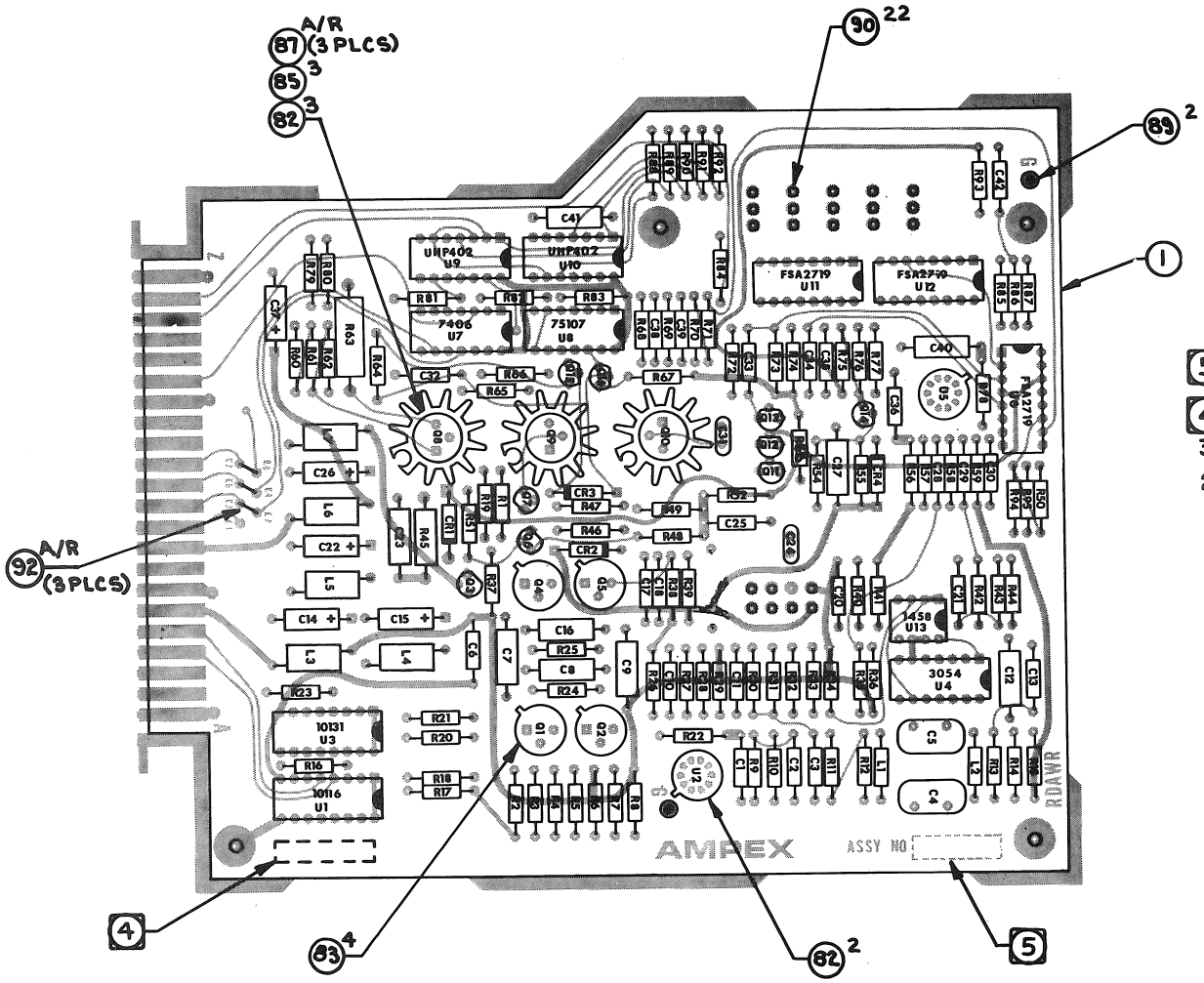
PRINTED WIRING BD ASSY
READ DATA LATCH / OPERATOR CONTROL PANEL INTERFACE DLOCP

NEXT ASSY	USED ON
APPLICATION	

SIZE	CODE IDENT NO	
B	09150	3305573-01

SCALE 1 X 1 SHEET 1 OF 1

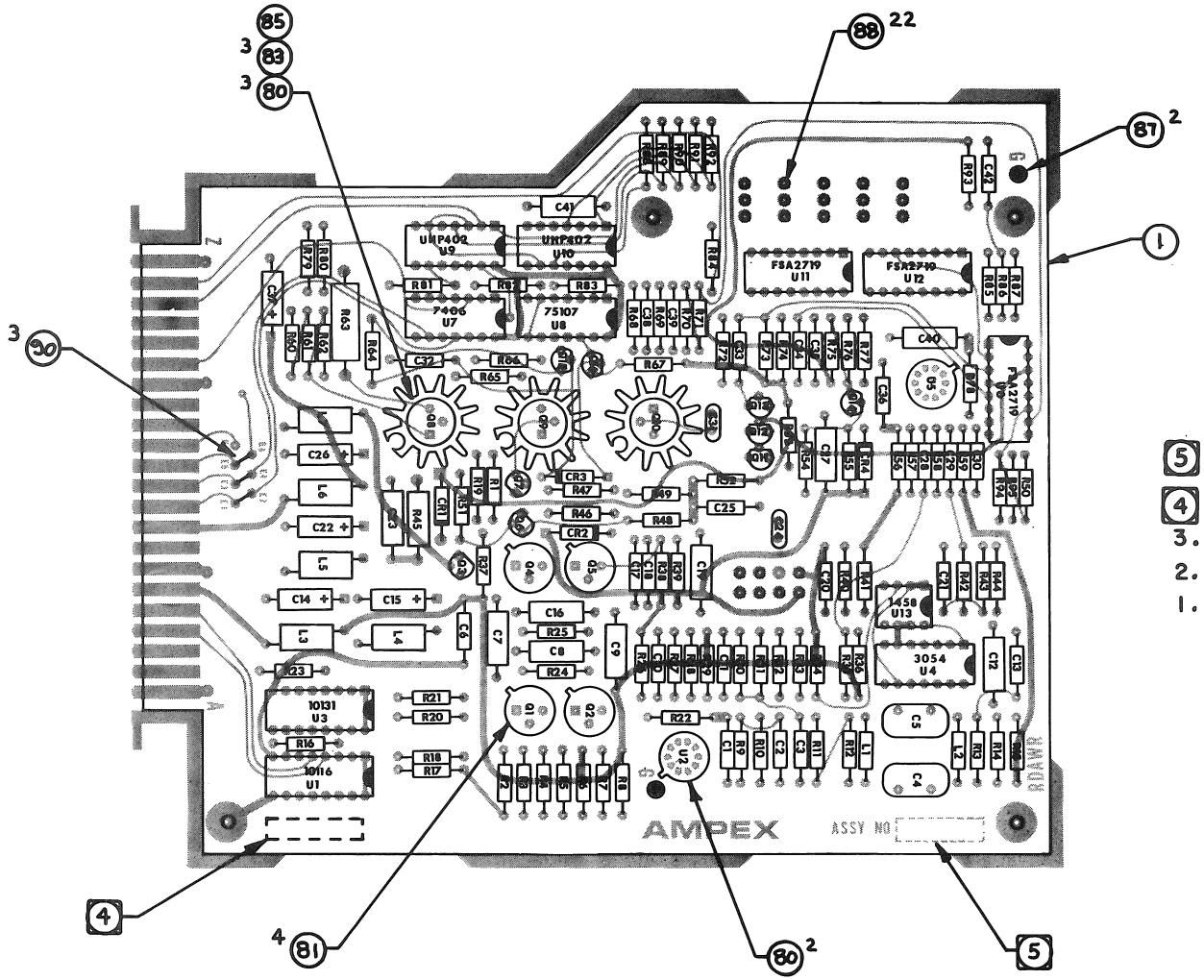
FORM 1A



5. MARK ASSY NO. 3305523 WHERE SHOWN.
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3305520
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

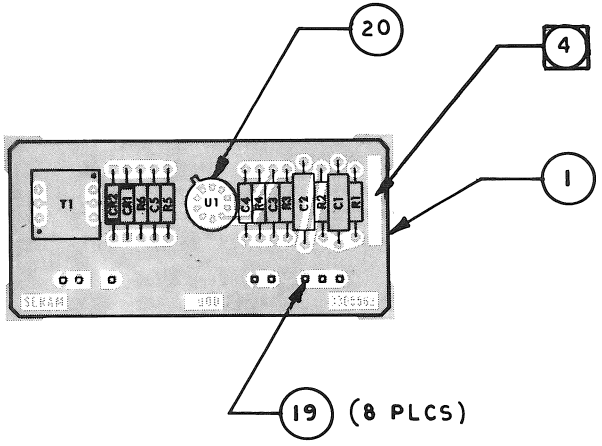
READ/WRITE MATRIX ASSEMBLY (RDAWR)
3305523-01



5. MARK ASSY NO. 3305763 WHERE SHOWN.
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3305760
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

READ/WRITE MATRIX ASSEMBLY (RDAWR)
3305763-01



4 LOCATION OF ASSY ECN LEVEL

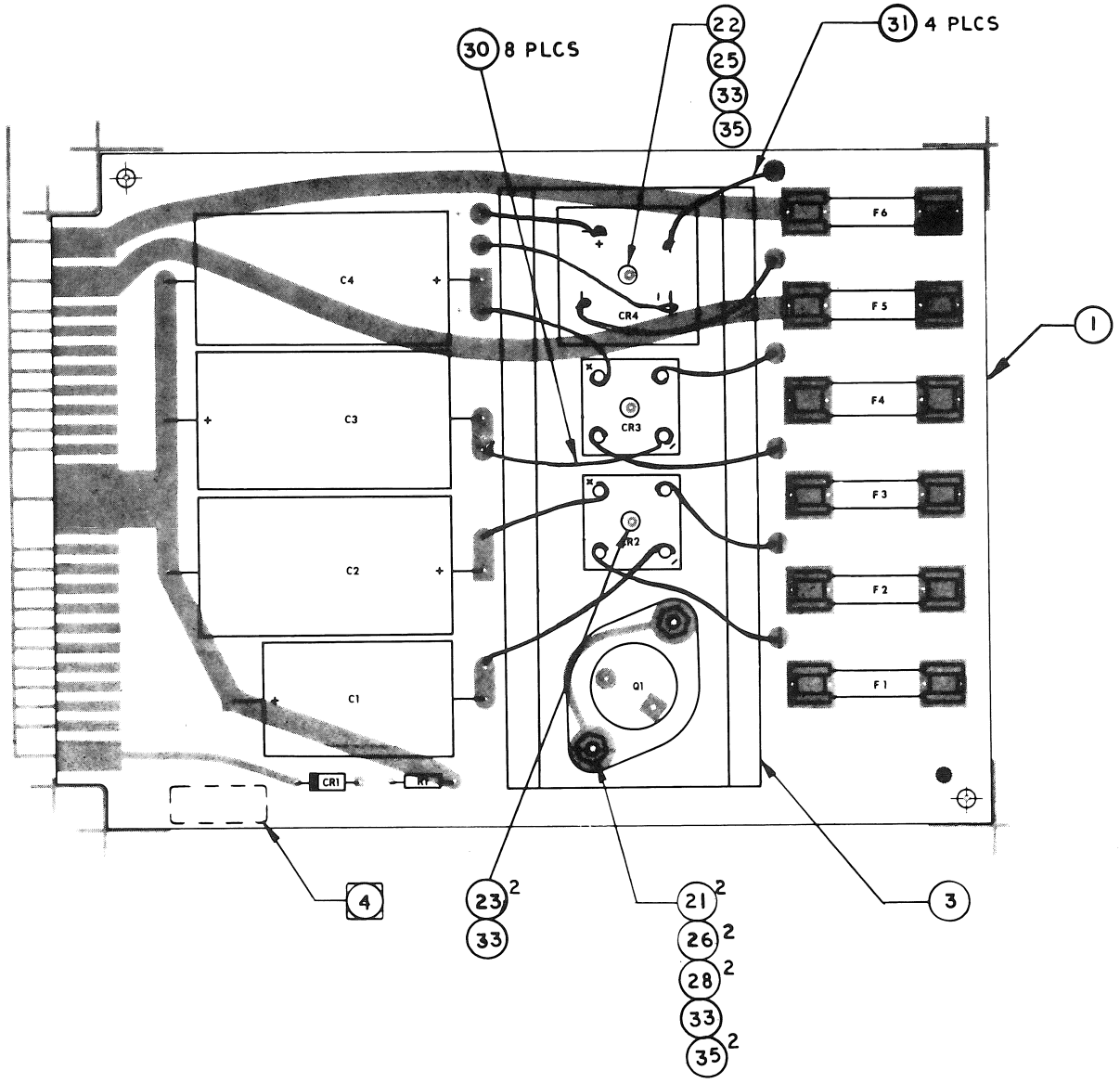
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305560 .

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

SERVO PREAMP (SERAM)
3305563-01



4 LOCATION OF ASSY ECN LEVEL

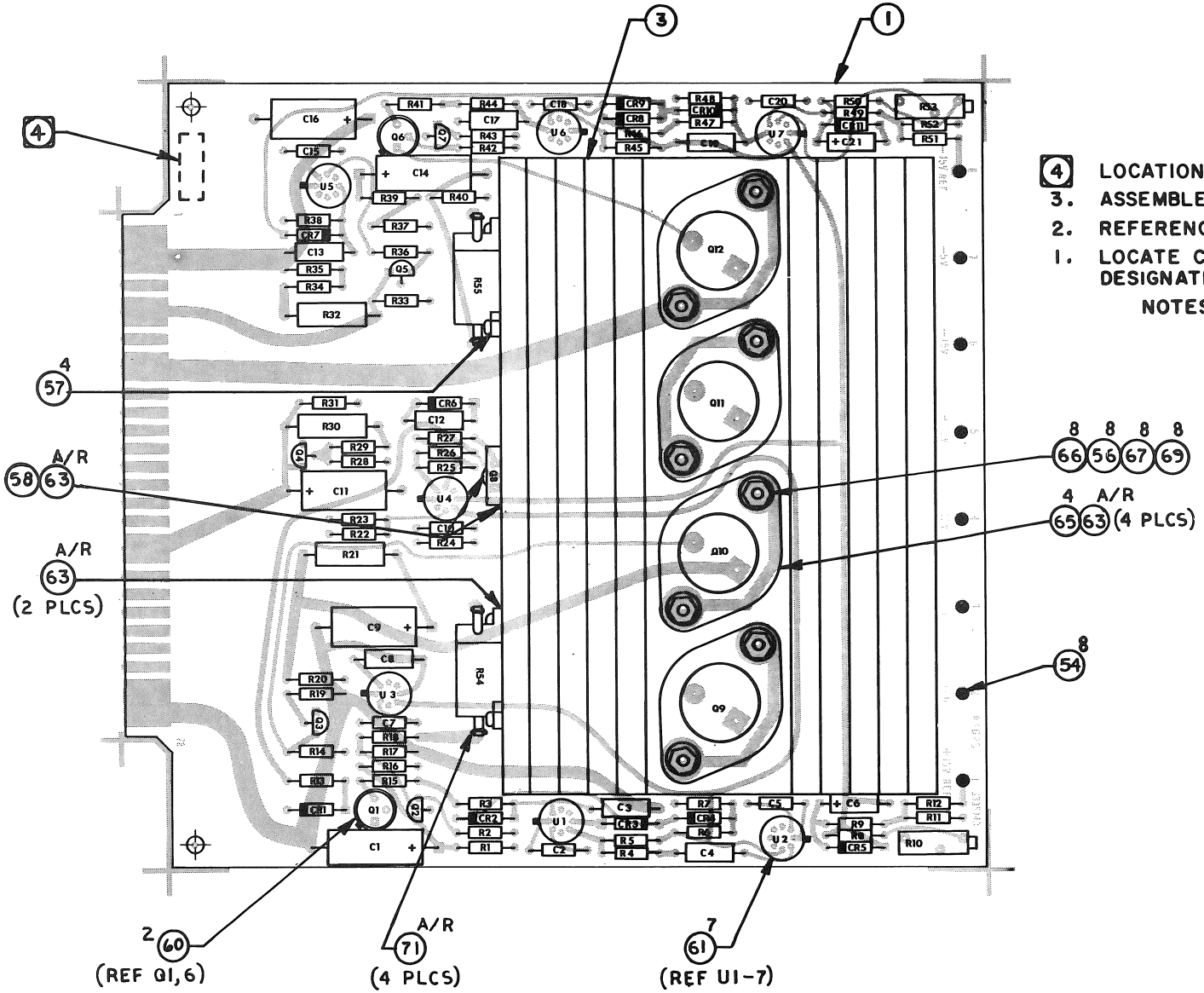
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305730

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

DC POWER FUSE RECTIFIER (FURCF)
3305733-01



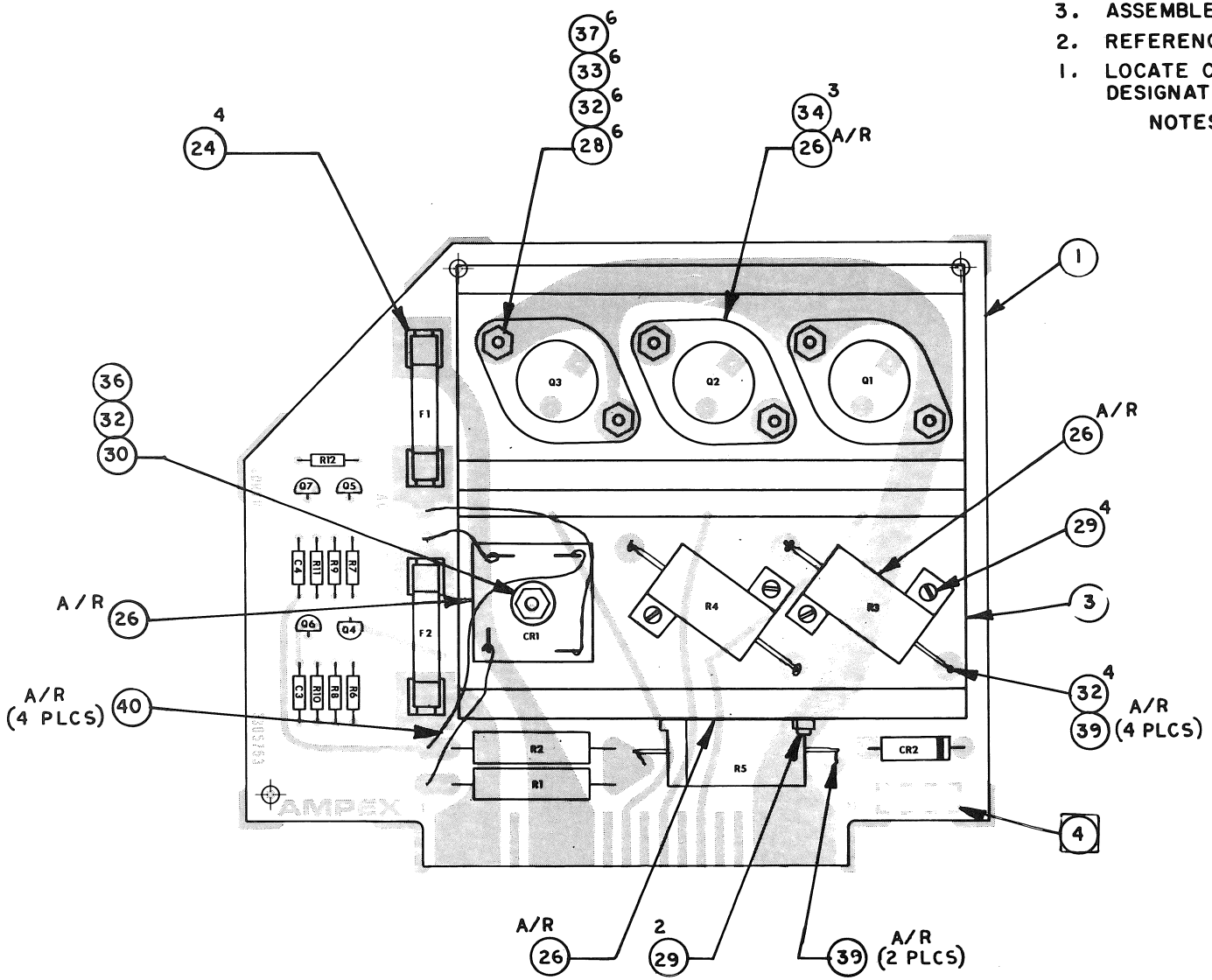
4. LOCATION OF ASSY ECN LEVEL
3. ASSEMBLE PER AMPEX STANDARDS.
2. REFERENCE SCHEMATIC 3305740-01
1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

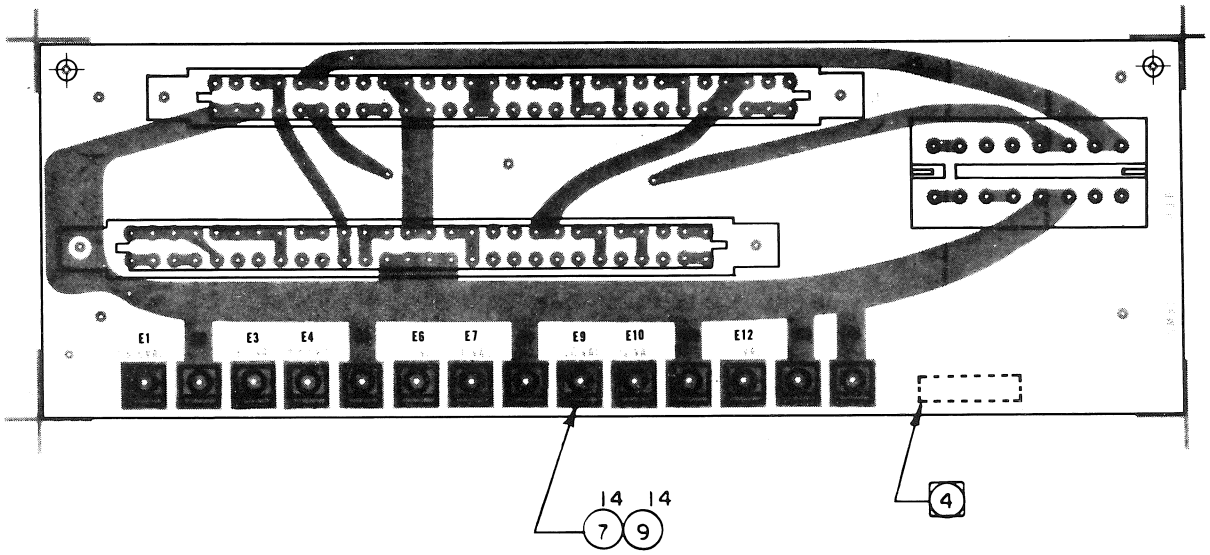
POWER SUPPLY REGULATOR (REGPS)
3305743-01

NOTES:

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.
2. REFERENCE SCHEMATIC 3305750
3. ASSEMBLE PER AMPEX STANDARDS.
4. LOCATION OF ASSY ECN LEVEL



SERVO DRIVER (SDRVR)
3305753-01



4 LOCATION OF ASSY ECN LEVEL

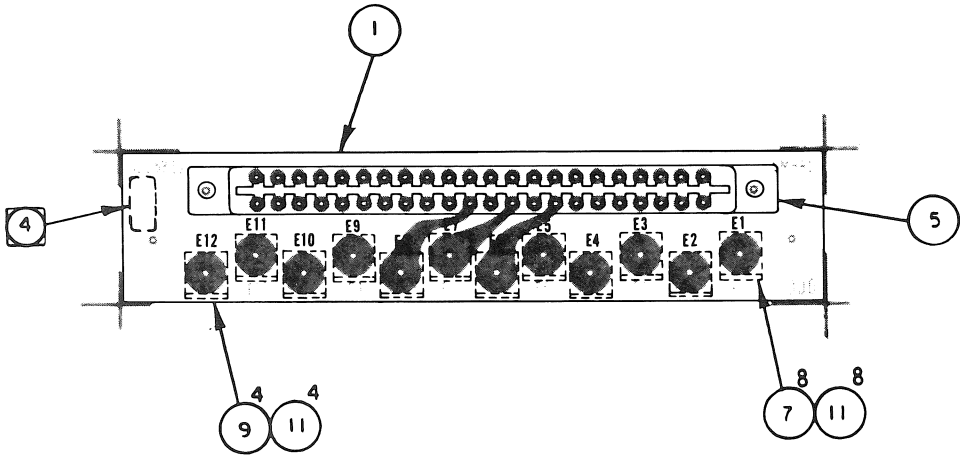
3. ASSEMBLE PER AMPEX STANDARDS.

2. REFERENCE SCHEMATIC 3305770-01

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.

NOTES:

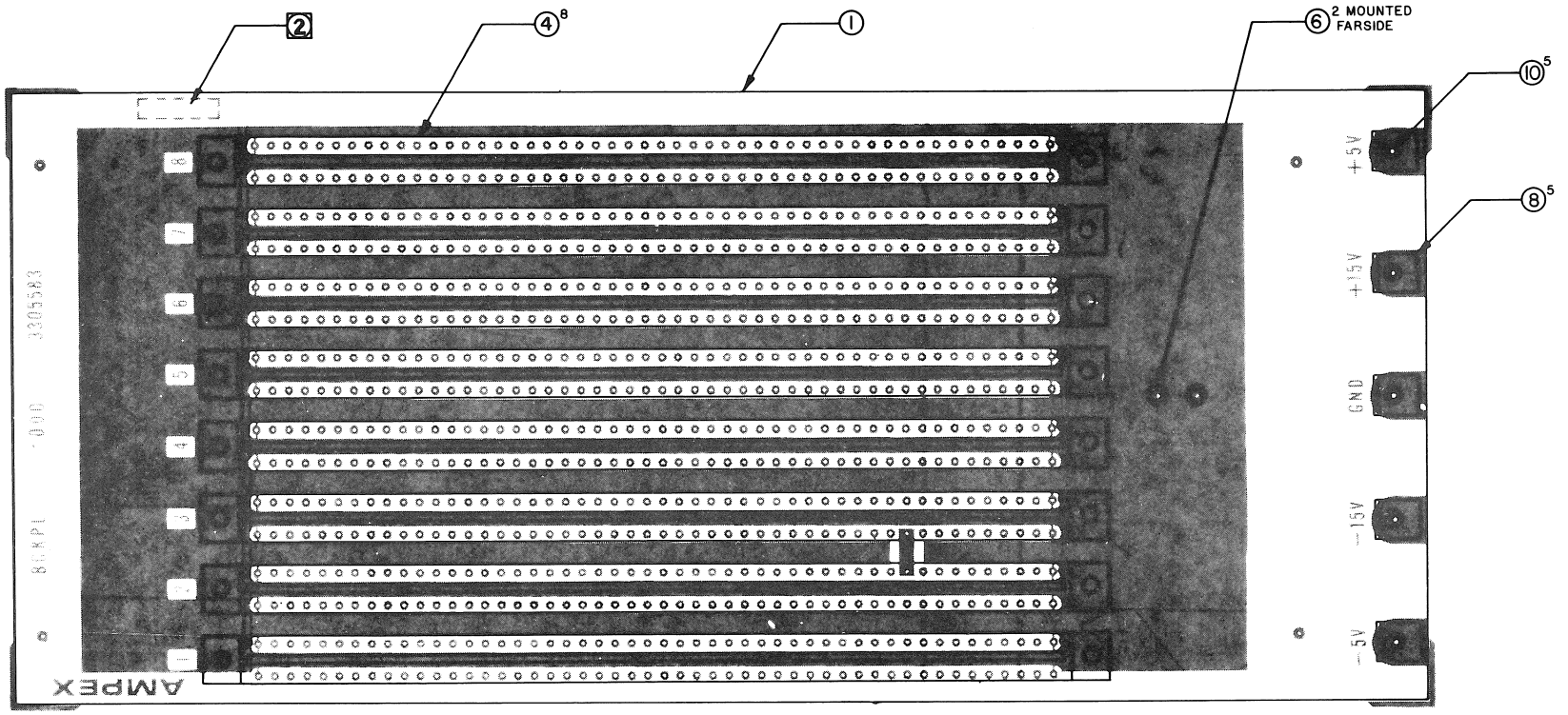
MOTHER BOARD POWER SUPPLY 940 (PSMBD)
3305773-01



SERVO MOTHER BOARD (SMBRD)
3305833-01

NOTES:

1. LOCATE COMPONENTS BY MATCHING REFERENCE DESIGNATIONS IN B/M.
2. REFERENCE SCHEMATIC 3305830
3. ASSEMBLE PER AMPEX STANDARDS.
4. LOCATION OF ASSY ECN LEVEL



2 LOCATION OF ASSY ECN LEVEL

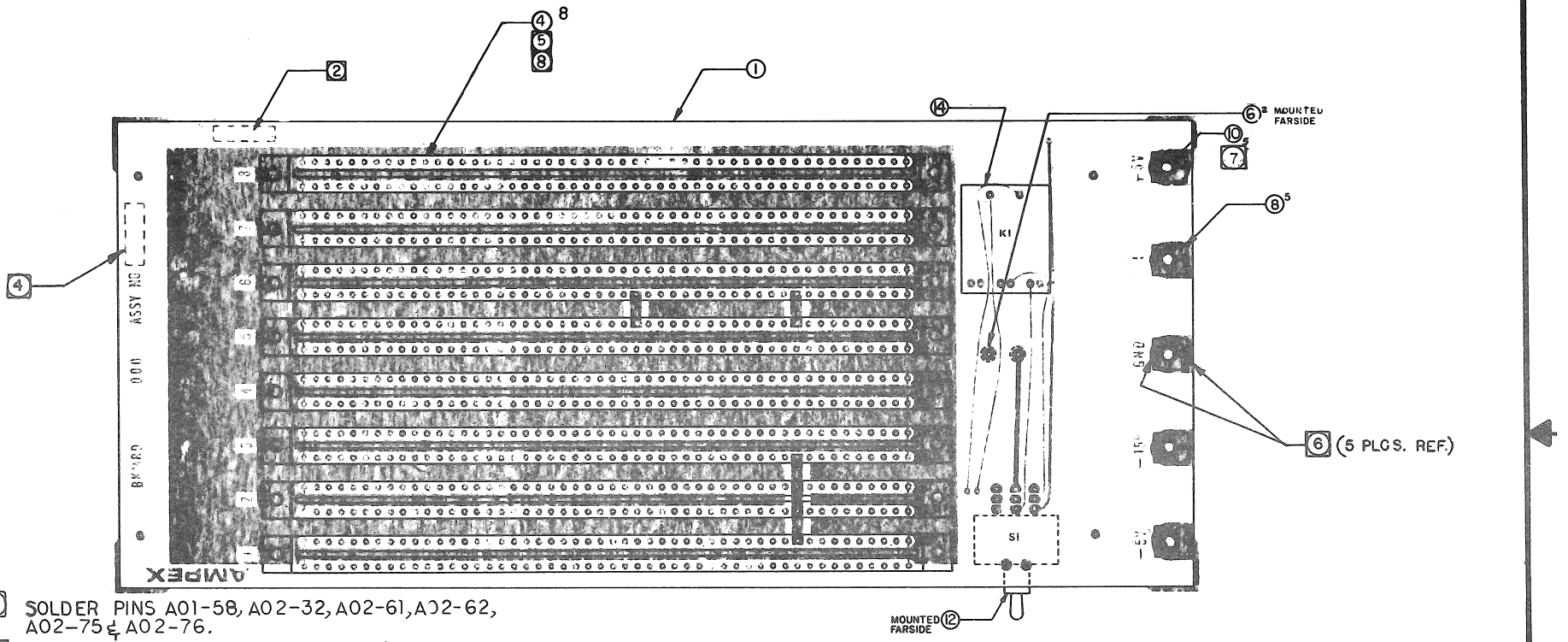
1. ASSEMBLE PER AMPEX STANDARDS.

NOTES:

MOTHER BOARD, BACK PLANE (BCKPL)
3305583-01

3306173-01

CODE: DF



8. SOLDER PINS A01-58, A02-32, A02-61, A02-62, A02-75 & A02-76.
7. RIVET HEAD TO BE ON TERMINAL (ITEM 8) – BODY TO BE CLINCHED ON SOLDER SIDE AND SOLDERED TO PAD.
6. SOLDER ALONG INDICATED EDGES, 5 PLCS.
5. SOLDER PINS 1, 2, 3, 4, 29, 30, 55, 56, 81, 82, 99 AND 100 ON ALL CONNECTORS.
4. MARK ASSY NO. 3306173 IN POSITION INDICATED
3. FOR ELECTRICAL INFORMATION REFER TO POWER SEQUENCING DIAGRAM 3306170-01
2. LOCATION OF ASSY ECN LEVEL
1. ASSEMBLE PER AMPEX STANDARDS

NOTES: UNLESS OTHERWISE SPECIFIED

DRAWN BY	COLES	7/26/76	ENGRG APPD	J. Whitmore	7-27-76
CHK BY			AUTH BY		
DFT APPD	W.A. Francis	7/27/76			

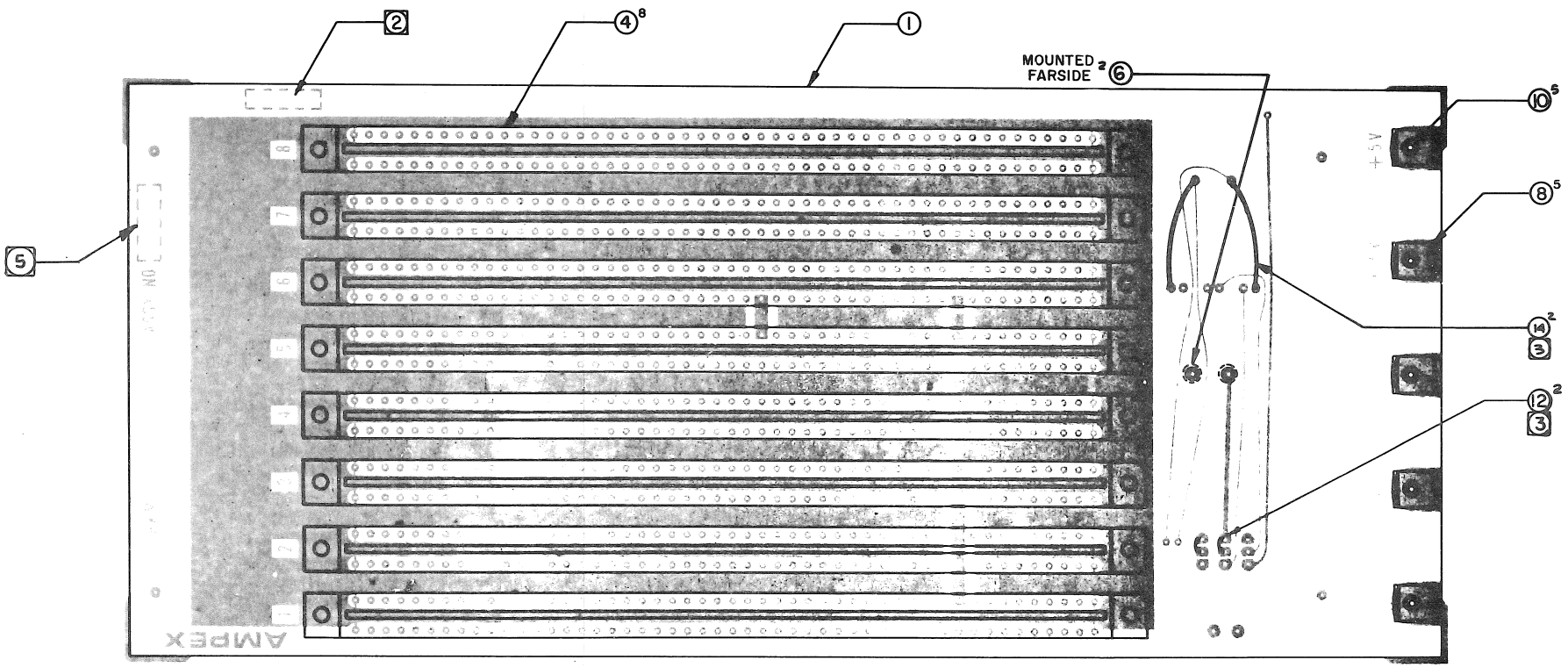
AMPEX
COMPUTER PRODUCTS DIV
Culver City, California 90230

MOTHER BOARD BACKPLANE ASSEMBLY FOR RPQ 43
BKMBD

NEXT ASSY	USED ON
APPLICATION	

SIZE	CODE IDENT NO	
B	09150	3306173-01

SCALE 1/1 SHEET 1 OF 1



5 MARK ASSY NO. 3307153 IN POSITION INDICATED

4. FOR ELECTRICAL INFORMATION REFER TO PWR SEQ DIAG 3308048-01

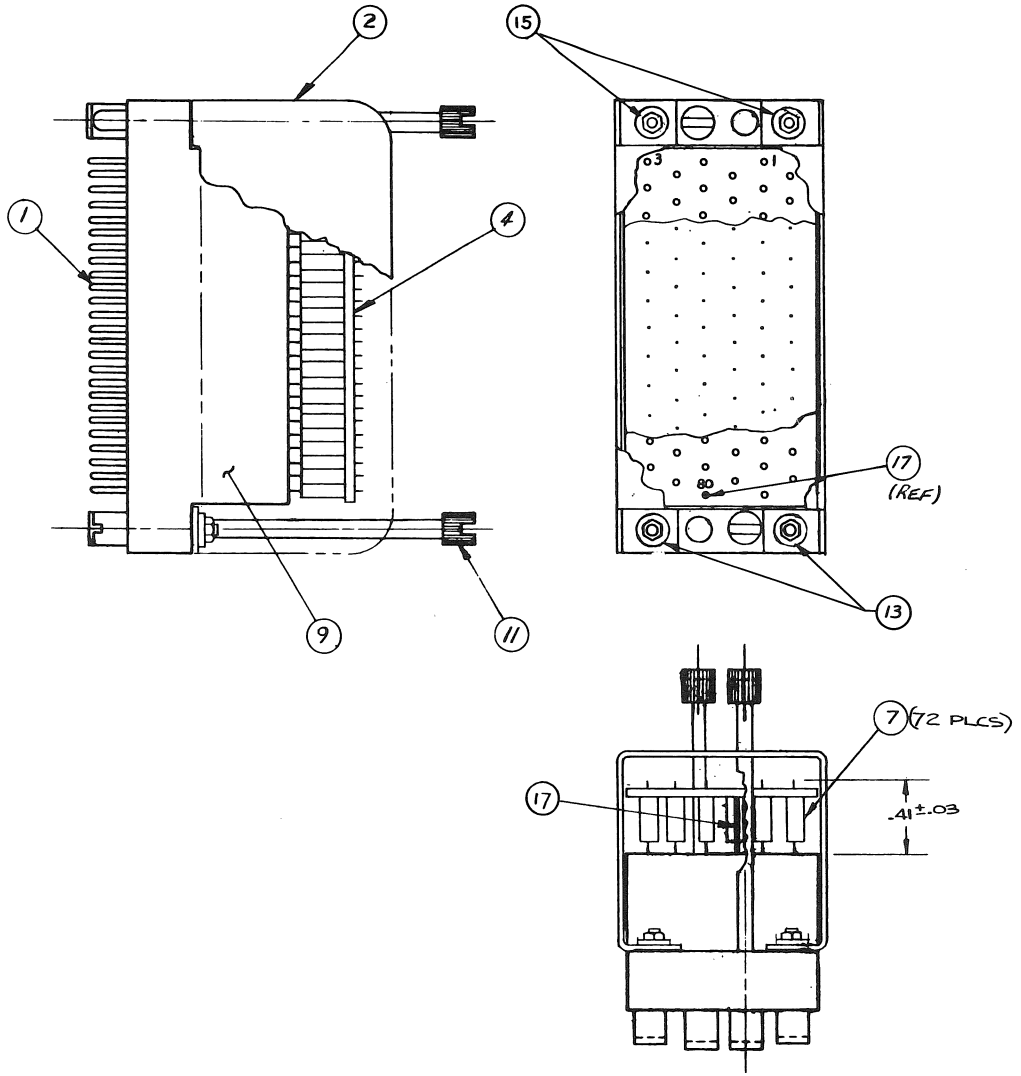
3 JUMPER SIA-C TO SIA-L & SIB-C TO SIB-L AND KI-8 TO KI-6 & KI-1 TO KI-7

2 LOCATION OF ASSY ECN LEVEL

1. ASSEMBLE PER AMPEX STANDARDS

NOTES: UNLESS OTHWISE SPECIFIED

MOTHER BOARD BACKPLANE ASSEMBLY (BKMBD)
3307153-01



TERMINATOR ASSEMBLY (TERM1)
3305667-01

WIRE LISTS

Interconnecting cable harness and chassis wire lists are arranged in numeric order according to their Ampex part number. To locate a specific wire list, refer to the table of contents in the front of this manual.

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306075-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	RFD	5-23-75	D000	DM	10-14-75
B-	RFD	6-30-75			
C-	RFD	7-23-75			

DRAWN: H.A. FRANCIS DATE: APRIL 2, 1975
CHECKED: DATE:
ENGR APPD: DRISCAL DATE: 5-23-75
PROJ ENGR: DATE:

TITLE: HARNESS ASSY, READ/WRITE DM940/980 (H2)

SHEET 1 OF 1

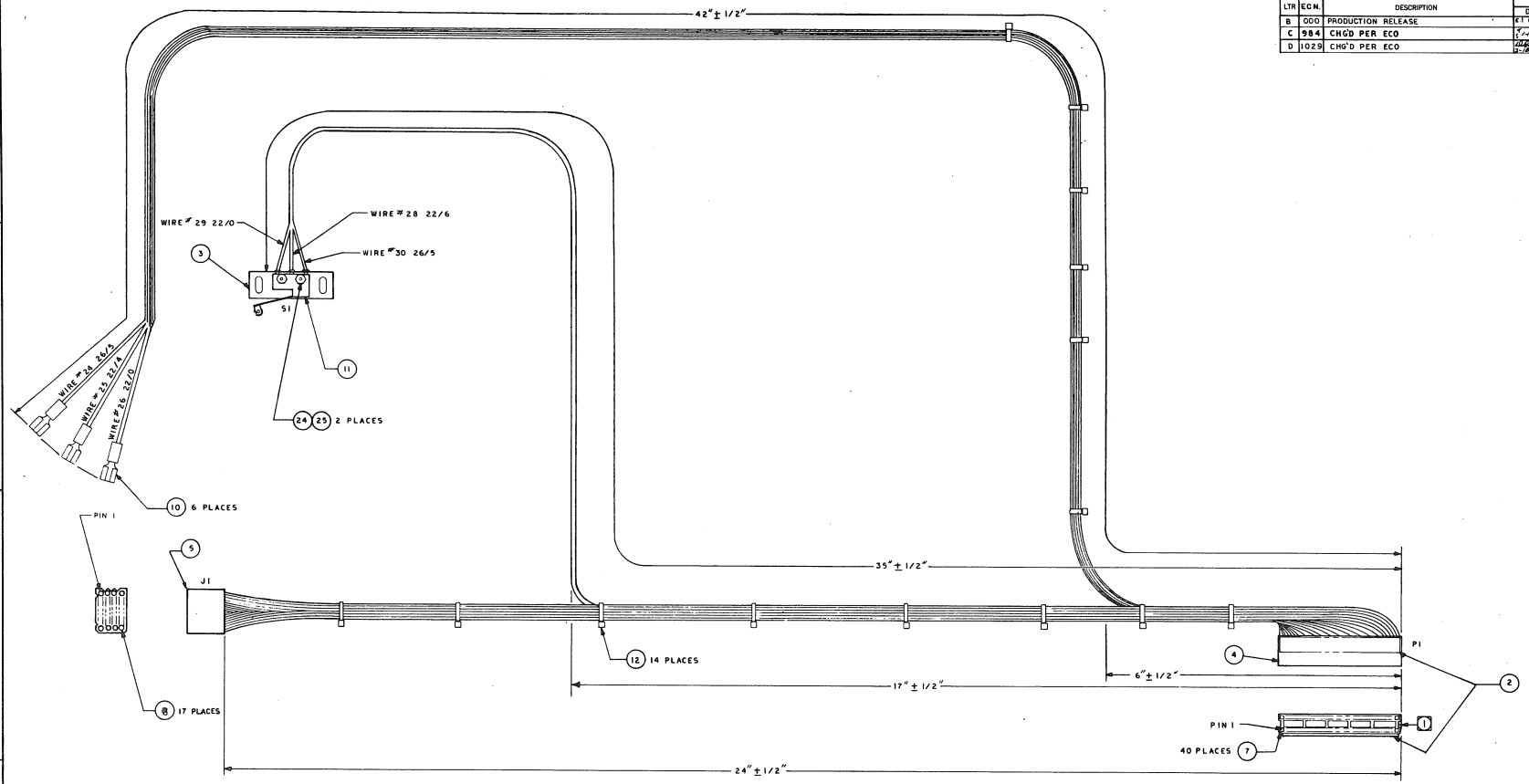
BM # 3306075 -01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	~~WIRE~~	~~TO~~
1	30/BLU	16"	J3-A	CRIMP			CRIMP	P1-2	TWINAX WR DATA	4		9
2	30/CLR	↑	J3-B	↑			↑	P1-1	↑	4	13	↑
3	SHIELD	↑	J3-D	↑			↑	P1-17	↑	3	↑	↑
4	30/BLU	↑	J3-H	↑			↑	P1-24	↑ WR CLK	4	↑	↑
5	30/CLR	↑	J3-J	↑			↑	P1-23	↑	4	↑	↑
6	SHIELD	↑	J3-E	↑			↑	P1-18	↑	3	↑	↑
7	30/BLU	↑	J3-M	↑			↑	P1-15	↑ SERVO CLK	4	↑	↑
8	30/CLR	↑	J3-N	↑			↑	P1-16	↑	4	↑	↑
9	SHIELD	↑	J3-K	↑			↑	P1-14	↑	3	↑	↑
10	30/BLU	↑	J3-U	↑			↑	P1-10	↑ RD DATA	4	↑	↑
11	30/CLR	↑	J3-V	↑			↑	P1-9	↑	4	↑	↑
12	SHIELD	↑	J3-T	↑			↑	P1-8	↑	3	↑	↑
13	30/BLU	↑	J3-W	↑			↑	P1-13	↑ TWINAX RD CLK	4	↑	↑
14	30/CLR	↑	J3-X	↑			↑	P1-11	↑	4	13	↑
15	SHIELD	↑	J3-Y	↑			↑	P1-12	↑	3	↑	↑
16	26-9	↑	J3-AA	↑			↑	P1-20	↑ TW ATTN	3	↑	↑
17	26-0	↑	J3-CC	↑			↑	P1-22	↑ PR	3	14	↑
18	26-9	↑	J3-DD	↑			↑	P1-21	↑ TW SELECTED	3	↑	↑
19	26-0	↑	J3-BB	↑			↑	P1-19	↑ PR	3	14	↑
20	22-6	↓	J3-MM	↓			↓	P1-5	-5 VOLTS	3	16	↓
21	22-0	16"	J3-NN	CRIMP			CRIMP	P1-33	GROUND	3	15	9

FORM #0008 1-20-70

3306195-01 | DISTR CODE:

REVISIONS					
LTR	ECN.	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
B	000	PRODUCTION RELEASE	10-13-75		
C	984	CHG'D PER ECO	5-14-76		
D	1029	CHG'D PER ECO	8-18-1976		



NOTES: UNLESS OTHERWISE SPECIFIED

[1] FILL ALL REMAINING HOLES WITH SOCKETS.

3306195-01

PARTS LIST ■

NOTICE

THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT.

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANS 10387
INTREPRET DRAWING PER ANS Y14.5
MATERIAL: SEE BILL OF MATERIAL
FINISH:

	SIGNATURE	DATE
DRAWN BY	E. IZUMI	10-13-75
CHK BY		
DFT APPD		
ENGRG APPD		
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

HARNESS ASSY,
CONTROL INTERFACE
(H3)

SIZE D | CODE IDENT NO. 09150 | 3306195-01
SCALE 1/1 | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UC-30A1B (REV NOV 70) PRINTED IN U.S.A.

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306195-01

ECO	APPD.	DATE	ECO	APPD	DATE
A000	RFO	7-24-75	D1029	DPG	2-18 76
B000	DPG	10-17-75			
C984	DPG	11/19/76			

DRAWN: H.A. Francis DATE: June 16, 1975
CHECKED: DATE:
ENGR APPD: R Driscoll DATE: 7-24-75
PROJ ENGR: DATE:

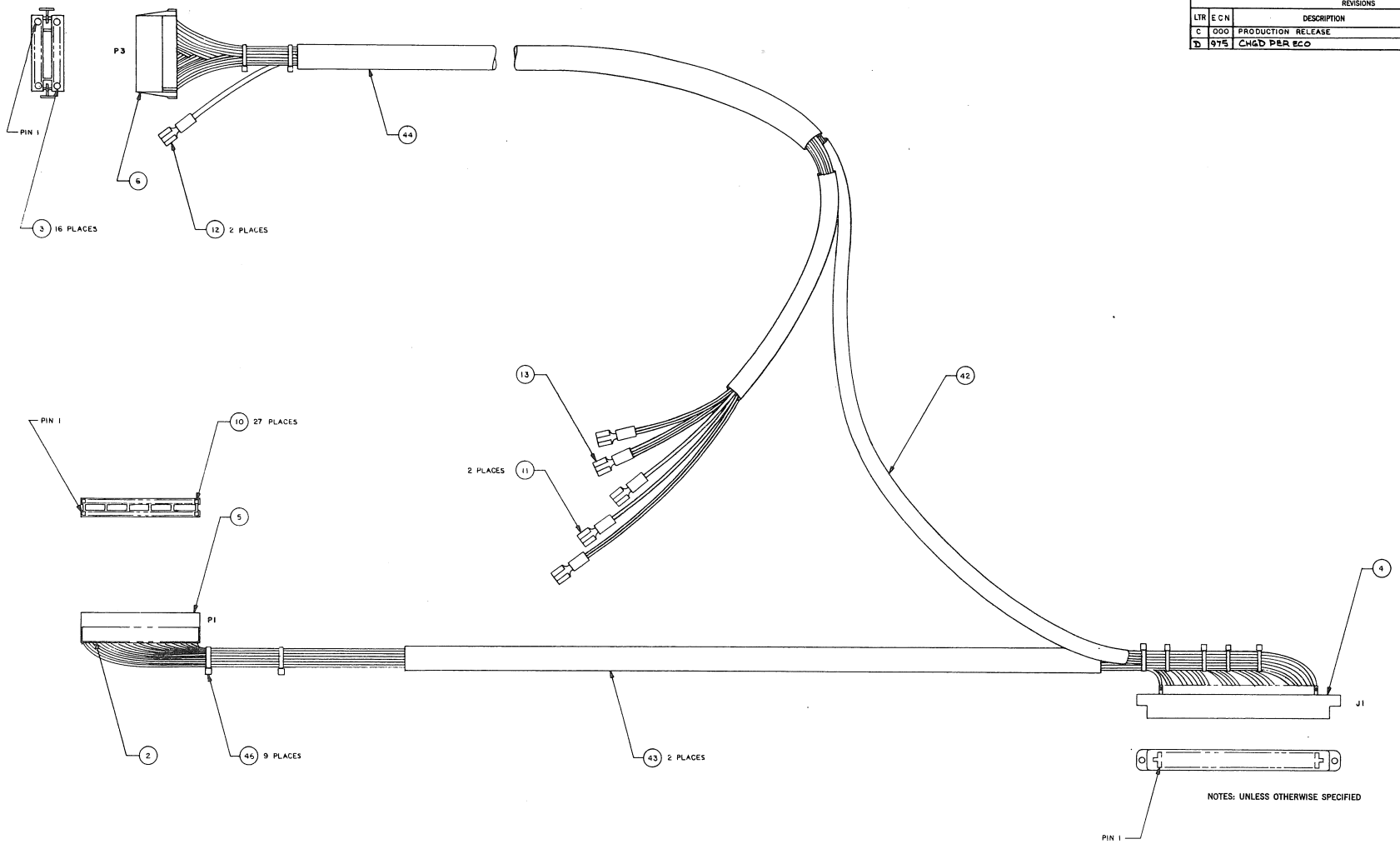
TITLE: HARNESS ASSY, CONTROL INTERFACE (H3)

SHEET 1 OF 1

BM # 3306195-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1												
2	22/2	27"	J1-2	CRIMP			CRIMP	P1-15	+5V	8	14	7
3												
4	22/6	27"	J1-4	CRIMP			CRIMP	P1-26	SELECT 0	8	15	7
5	22/6	27"	J1-5	↕			↕	P1-28	SELECT 1	8	15	7
6	22/6	27"	J1-6	↕			↕	P1-30	SELECT 2	8	15	7
7	22/6	27"	J1-7	↕			↕	P1-32	SELECT 3	8	15	7
8	22/6	27"	J1-8	CRIMP			CRIMP	P1-31	INSERTED	8	15	7
9												
10	22/8	27"	J1-10	CRIMP			CRIMP	P1-27	SELECTED LITE	8	16	7
11												
12	22/0	27"	J1-12	CRIMP			CRIMP	P1-33	TW FAULT	8	22	7
13	22/4	27"	J1-13	CRIMP			CRIMP	P1-35	PR CLR SWITCH	8		7
14	22/8	27"	J1-14	CRIMP			CRIMP	P1-25	UNSAFE LITE	8	16	7
15												
16	22/0	27"	J1-16	CRIMP			CRIMP	P1-39	TW READ	8	22	7
17	22/4	27"	J1-17	CRIMP			CRIMP	P1-40	PR ONLY SW	8		7
18	22/8	27"	J1-18	CRIMP			CRIMP	P1-1	READ ONLY LITE	8	16	7
19												
20	22/0	27"	J1-20	CRIMP			CRIMP	P1-38	TW START/	8	22	7
21	22/4	27"	J1-21	↕			CRIMP	P1-36	PR STOP SW	8		7
22	22/8	27"	J1-22	↕			CRIMP	P1-29	READY LITE	8	16	7
23	26/0	27"	J1-1	↕			CRIMP	P1-7	GROUND	8	18	7
24	26/5	42"	S3-C	↕			TOGETHER	P1-7	GROUND	10	19	
25	22/4	42"	S3-NO	↕			CRIMP	P1-37	TW DOOR	10	22	7
26	22/0	42"	S3-NC	CRIMP			CRIMP	P1-34	PR CLOSED SW	10		7
27												
28	22/6	36"	S1-NO	SOLDER			CRIMP	P1-3	TW HEADS	11	17	7
29	22/0	36"	S1-NC	SOLDER			CRIMP	P1-4	PR RETR. SW	11		7
30	26/5	36"	S1-C	SOLDER			CRIMP	P1-8	GROUND	11	19	7
31	26/5	2"	P1-5	CRIMP			TOGETHER	P1-8	GROUND	7	19	

FORM #0008 1-20-70



3306196-01

DISTR CODE:

REVISIONS					
LTR	E C N	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
C	000	PRODUCTION RELEASE	E.T. 10-13-75		APP 10-17-75
D	975	CHGD PER ECO	F. Mw-76		APP 11-4-76

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST

NOTICE

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NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES
DRILL TOL PER ANSI 16387
INTREPRET DRAWING PER ANSI Y14.5
MATERIAL: SEE BILL OF MATERIALS
FINISH:

SIGNATURE		DATE
DRAWN BY	E. IZUMI	10-13-75
CHK BY		
DFT APPD	H. A. Jackson	10-17-75
ENGRG APPD	L. J. Young	10-17-75
AUTH BY		

AMPEX
COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

HARNESS ASSY,
MATRIX BOARD AND POWER
SUPPLY (H4)

SIZE	CODE IDENT NO.	
D	09150	3306196-01

SCALE 1/1 | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UD-3004A0 (REV NOV 72) PRINTED IN U.S.A.

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306196-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	EFD	7-1-75	D975	[illegible]	[illegible]
B-	EFD	7-23-75			
C003	[illegible]	10-17-75			

DRAWN: B. DRISCAL DATE: JUNE 19, 1975 CHECKED: DATE:

ENGR APPD: [illegible] DATE: 7-1-75 PROJ ENGR: DATE:

TITLE: HARNESS ASSY, MATRIX BOARD & POWER SUPPLY (H4)

SHEET 1 OF 2

BM # 3306196-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	18/0		J1-1	SOLDER			SOLDER	J1-A	GROUND	-	15	-
2	18/0		J1-1	TOGETHER			SOLDER	J1-7	↕	-	15	-
3	18/0		J1-H	SOLDER			TOGETHER	J1-7	↕	-	15	-
4	18/0		J1-16					J1-7	GROUND	-	15	-
5				SOLDER TOGETHER								
6	18/0		J1-16				SOLDER	J1-T	GROUND	-	15	-
7	18/0		J1-16				SOLDER	J1-22	↕	-	15	-
8	18/0		J1-Z	SOLDER			TOGETHER	J1-22	↕	-	15	-
9	16/0	38"	P3-1	TOGETHER				J1-22	GROUND	-	14	3
10												
11	18/3	38"	J1-8	SOLDER			CRIMP	P3-2	+15V	-	17	3
12	18/4	38"	J1-9	↕			↕	P3-7	+25V	-	18	3
13	16/2	38"	J1-K	↕			↕	P3-8	+5V	-	21	3
14				↕			↕					
15	18/8	38	J1-F	↕			↕	P3-11	-15V	-	20	3
16	16/2	38	J1-14	SOLDER			CRIMP	P3-15	-5V	-	21	3
17				↕			↕					
18	22/0	24"	J1-A	SOLDER			CRIMP	P1-33	GROUND	-	22	10
19	22/0	24"	J1-B	↕			↕	P1-32	TW WRITE	-	40	↕
20	22/4	24"	J1-C	↕			↕	P1-31	PR GATE	-		↕
21	22/9	24"	J1-3	↕			↕	P1-14	AGC	-	31	↕
22				↕			↕					↕
23	22/0	24"	J1-D	↕			↕	P1-17	TW WRITE	-	40	↕
24	22/4	24"	J1-E	↕			↕	P1-18	PR DATA	-		↕
25	24/0	24"	J1-5	↕			↕	P1-2	SHLD READ	-	39	↕
26	24/2	24	J1-6	↕			↕	P1-1	TW DATA	-		↕
27	SHIELD	24"	J1-H	↕			↕	P1-4	PR			↕
28	22/4	24"	J1-9	↕			↕	P1-28	+25V	-	26	↕
29	22/9	24"	J1-L	↕			↕	P1-10	CYL 512	-	31	↕
30	22/5	24"	J1-M	↕			↕	P1-11	CYL 256	-	27	↕
31	22/3	24"	J1-N	↕			↕	P1-12	CYL 128	-	25	↕
32	22/92	24"	J1-P	↕			↕	P1-13	CYL 64	-	34	↕
33	22/1	24"	J1-13	↕			↕	P1-8	CURRENT	-	23	↕
34	22/97	24"	J1-S	↕			↕	P1-40	RD GATE	-	38	↕
35	22/6	24	J1-15	↕			↕	P1-9	TRANSITIONS	-	28	↕
36	22/91	24"	J1-U	↕			↕	P1-27	WRT GATE	-	33	↕
37	22/7	24"	J1-17	↕			↕	P1-19	HD 1	-	29	↕
38	22/8	24"	J1-18	↕			↕	P1-15	UNSAFE	-	30	↕
39	22/94	24"	J1-19	↕			↕	P1-16	HD 0	-	36	↕
40	22/2	24"	J1-20	↕			↕	P1-26	HD 4	-	24	↕
41	22/93	24"	J1-X	↕			↕	P1-20	HD 2	-	35	↕
42	22/90	24"	J1-21	↕			↕	P1-25	HD 3	-	32	↕
43	22/95	24	J1-Y	SOLDER			CRIMP	P1-34	MULT. HDS	-	37	10
44												
45	22/7	56"	P3-5	CRIMP			CRIMP	P1-3	+5V SENSE	3	29	10
46												
47	16/2	27 1/2	P3-6	CRIMP			CRIMP	A09 (+5V)	+5V	3	21	12
48	16/2	27 1/2	P3-14	CRIMP			TOGETHER	A09 (+5V)	+5V	3	21	12
49												
50	18/3	28"	P3-4	CRIMP			CRIMP	A09 (+15V)	+15V	3	17	11
51												

FORM #0008 1-20-70

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306196-01

ECO	APPD.	DATE	ECO	APPD	DATE

DRAWN: DATE:
ENGR APPD: DATE:
CHECKED: DATE:
PROJ ENGR: DATE:

TITLE HARNESS ASSY, MATRIX BOARD & POWER SUPPLY (H4)

SHEET 2 OF 3

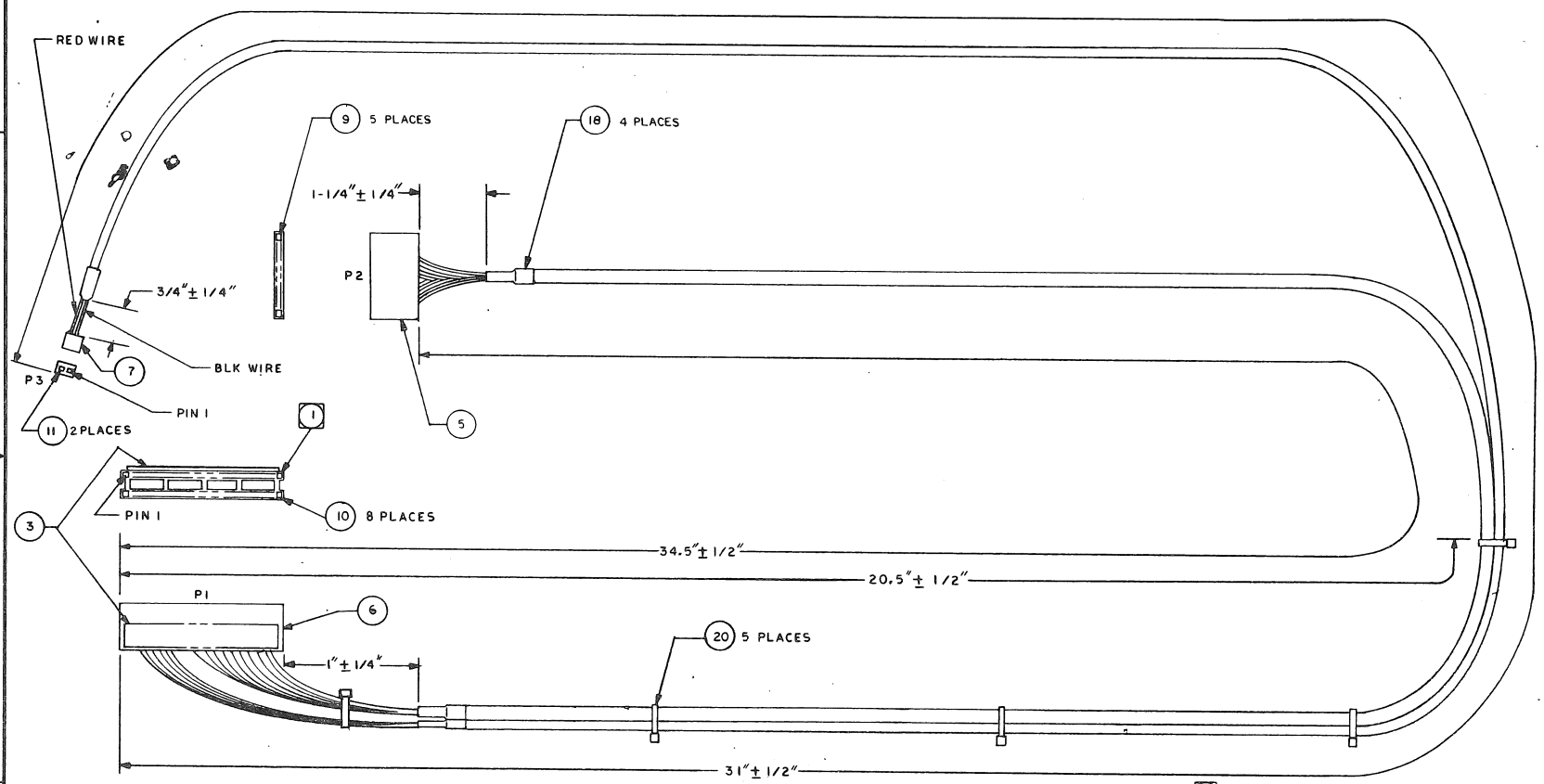
BM # 3306196-01

WIRE			FROM			TO			REMARKS	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL		FROM	WIRE	TO
53	16/0	28 1/2	P3-10	CRIMP			CRIMP TOGETHER	A09 (GND)	GROUND	3	14	13
54	16/0	28 1/2	P3-3	CRIMP				A09(GND)	GROUND	3	14	
55	14/0	28 1/2	PSMBD-14	CRIMP				A09(GND)	GROUND	12	41	
56	16/0	28 1/2	P3-12	CRIMP				A09(GND)	GROUND	3	14	
57												
58												
59												
60												
61												
62	18/8	29 1/2	P3-9	CRIMP			CRIMP	A09 (-15V)	-15V	3	20	11
63												
64	18/6	30 1/2	P3-13	CRIMP			CRIMP TOGETHER	A09 (-5V)	-5V	3	19	12
65	18/6	30 1/2	P3-16	CRIMP				A09 (-5V)	-5V	3	19	

FORM #0008 1-20-70

3306197-01 | DISTR CODE:

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
B	000	PRODUCTION RELEASE	E.I. 10-16-75		10/20/75
C	984	CHGD PER ECO	1-16-76		1/19/76



(1) FILL EVERY OTHER REMAINING HOLE WITH SOCKETS.

PARTS LIST ■

NOTICE

THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT.

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ± | 2 PLC | 3 PLC | ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

MATERIAL: SEE BILL OF MATERIAL

FINISH:

SIGNATURE		DATE
DRAWN BY	E. IZUMI	10-16-75
CHK BY		
DFT APPD	H.A. Francis	10-20-75
ENGRG APPD	J.D. Young	10/20/75
AUTH BY		

NEXT ASSY | USED ON

APPLICATION

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

HARNESS ASSY, SERVO PREAMP (H5)

SIZE	CODE IDENT NO.	
C	09150	3306197-01

SCALE 1/1 | SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

3306197-01

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306197-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	[illegible]	[illegible]			
B003	[illegible]	10/[illegible]			
C384	[illegible]	[illegible]			

DRAWN: H. A. Francis DATE: 7-11-75
ENGR APPD: [illegible] DATE: [illegible]
CHECKED: DATE:
PROJ ENGR: DATE:

TITLE: HARNESS ASSY, SERVO PREAMP (H5)

SHEET 1 OF 1

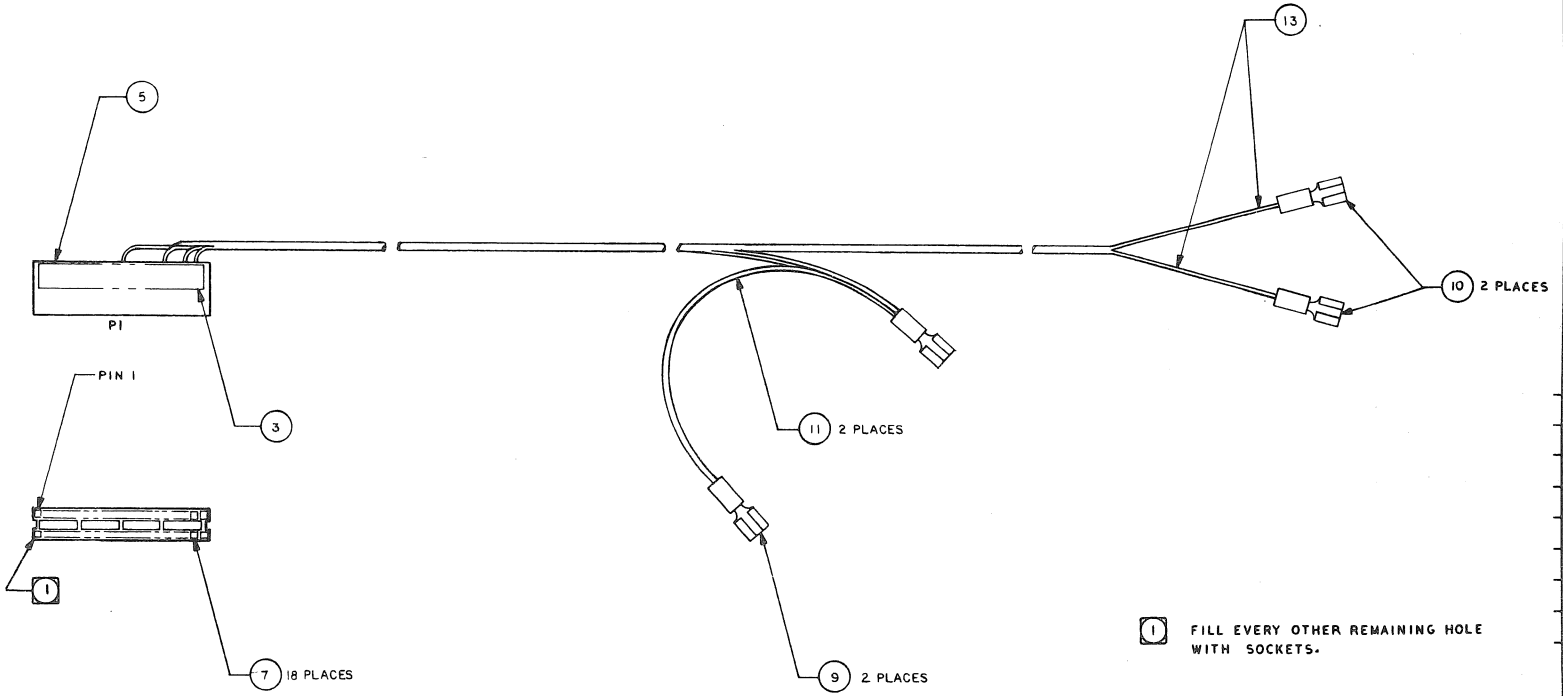
BM # 3306197-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	22/9	36"	P2-8	CRIMP			CRIMP	P1-3	SHLD SERVO AMP	9	14	10
2	22/5		P2-7					P1-9	2 SERVO AMP	9		
3	SHIELD		P2-3					P1-8	TW GROUND	9		
4	22/0		P2-6					P1-13	PR -15V	9		
5	22/2		P2-4					P1-19	+15V	9		
6	22/0	32"	P3-1					P1-27	SHLD SLOT	11	13	
7	22/2		P3-2	CRIMP				P1-29	TW SLOT	11		
8	SHIELD		-	NO TERMINATION			CRIMP	P1-25	PR GROUND	-		10

FORM #0008 1-20-70

4 3 2 3306198-01 DISTR CODE: 1

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
C	000	PRODUCTION RELEASE	E.I. 10-15-75		10-17-75
D	984	CHG'D PER ECO	1-16-76		1/19/76
E	1029	CHG'D PER ECO	NJB 2-18-1976		2-19-76



1 FILL EVERY OTHER REMAINING HOLE WITH SOCKETS.

PARTS LIST

NEXT ASSY	USED ON
APPLICATION	

NOTICE

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ±	2 PLC	3 PLC	ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

MATERIAL: SEE BILL OF MATERIAL

FINISH:

	SIGNATURE	DATE
DRAWN BY	E. IZUMI	10-10-75
CHK BY		
DFT APPD	N.A. Francis	10-17-75
ENGRG APPD	J. V. Young	10-17-75
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

HARNESS ASSEMBLY, RELAY DRIVER (H6)

SIZE	CODE IDENT NO.	
C	09150	3306198-01

SCALE 1/1 SHEET 1 OF 1

3306198-01 B

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

4 3 2 1

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306198-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	RFD	6-25-75	D984	DG	1-19-76
B-	DCO	7-23-75	E1029	JPY	2-18-76
C000	JPY	10-17-75			

DRAWN: H.A. Francis DATE: June 23, 1975

CHECKED: DATE:

ENGR APPD: R Driscoll DATE: 6-25-75

PROJ ENGR: DATE:

TITLE: HARNESS ASSY, RELAY DRIVER (H6)

SHEET 1 OF 1

BM # 3306198-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	22/2	10"	K1-3	CRIMP			CRIMP	K2-3	+5V	9	11	9
2	22/2	20"	K1-3	TOGETHER			↕	P1-31	3TW +5V		11	7
3	22/0	21"	K1-4	CRIMP			↕	P1-29	START WIND	10	4	7
4	22/4	26"	K2-4	CRIMP			CRIMP	P1-25	RUN WIND	10	13	7

FORM #0008 1-20-70

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306199-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	RFO	6-3-75	D915		
B-		8-21-75	E988		
C600		11-20-75			

DRAWN: H.A. Francis DATE: 6-24-75
CHECKED: DATE:
ENGR APPD: DATE:
PROJ ENGR: DATE:

TITLE: HARNESS ASSY, POWER DRIVERS (H7)

SHEET 1 OF 1

BM # 3306199-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	22/9	28"	SMBRD-E6	CRIMP			CRIMP	P1-5	REVERSE	9	12	7
2	22/5	28"	SMBRD-E8	CRIMP				P1-13	FORWARD	9		
3	SHIELD	28"	SMBRD-E4	CRIMP W/13, 9				P1-6	TW PR SHIELD	-		
4	22/0	28"	SMBRD-E2	CRIMP W/12				P1-7	SHLD MOTV-A	-		
5	22/2	28"	SMBRD-E7	CRIMP				P1-12	BRAKE	9		
6	22/9	28"	SMBRD-E3	CRIMP W/14				P1-11	CFBK-A	-	15	
7	22/0	31"	SMBRD-E10	CRIMP W/10				P1-14	SHIELD TW -36V	-		
8	22/2	31"	SMBRD-E12	CRIMP				P1-18	PR +36V	9	11	
9	SHIELD	31"	SMBRD-E4	CRIMP W/3, 13				P1-8	SHIELD	-		7
10	22/0	20"	SMBRD-E10	CRIMP W/7				DB-1	TW BRAKE	10	14	9
11	22/2	26"	SMBRD-E1	CRIMP				DB-2	PR COIL	9		9
12	18/0	16"	SMBRD-E2	CRIMP W/4			CRIMP	LM-1	SHIELD LINE'.R	10		9
13	SHIELD	17"	SMBRD-E4	CRIMP W/3, 9			-	-	TW MOTOR	10	4	-
14	18/9	16 1/2"	SMBRD-E3	CRIMP W/6			CRIMP	LM-2	PR FLEX ASSY.	10		8
15												
16	14/0	28"	SMBRD-E4	CRIMP			CRIMP	C3(-)	36V GND	10	16	19
17	14/0	9"	C4 (+)	CRIMP			TOGETHER	C3(-)	36V GND	20	16	
18												
19	14/8	28"	SMBRD-E10	CRIMP			CRIMP	C4(-)	-36VDC	10	18	20
20	14/3	28"	SMBRD-E12	CRIMP			CRIMP	C3(+)	+36VDC	10	17	20
21												
22	14/0	9"	SMBRD-E5	CRIMP			CRIMP	PSMPD - 13	DC GND	10	16	10

FORM #0008 1-20-70

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306369-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	RFD	6-30-75			
B-	DPd	8-28-75			

DRAWN: REMY DATE: 6-26-75
CHECKED: DATE:
ENGR APPD: P Driscoll DATE: 6-30-75
PROJ ENGR: DATE:

TITLE: TWISTED PAIR, LOGIC CHASSIS DM940/980

SHEET 1 OF 1

BM # 3306369-01

WIRE NO.	GAUGE/ DESC	LGTH	FROM REF DESIG TERMINAL	FROM PROCESS	FROM STA.	TO STA	TO PROCESS	TO REF DESIG TERMINAL	REMARKS	BM ITEM NO. FROM	BM ITEM NO. WIRE	BM ITEM NO. TO
1	30/4	3.0	A02-42	W/W			W/W	A05-28	TW S967-L	-	2	-
2	30/6	3.0	A02-40					A05-16	PR S967-G			
3	30/4	4.0	A02-46					A07-41	RCLK-L			
4	30/6	4.0	A02-44					A07-42	RCLK-G			
5	30/4	4/0	A02-50					A07-57	RDAT-L			
6	30/6	4.0	A02-48					A07-58	RDAT-G			
7	30/4	5.0	A02-54					A08-52	WCLK-L			
8	30/6	5.0	A02-52					A08-65	WCLK-G			
9	30/4	4.0	A02-60					A07-43	WDAT-L			
10	30/6	4.0	A02-58					A07-44	WDAT-G			
11	30/4	3.0	A02-42					A08-27	S967-L			
12	30/6	3.0	A02-40					A08-24	S967-G			
13	30/4	5.0	A05-39					A07-96	PLO9-H			
14	30/6	5.0	A05-38					A07-95	PLO9-L			
15	"											
16	"											
17	"											
18	"											
19	"											
20	"											
21	30/4	4.5	A07-60					A08-7	READ-P			
22	30/6	4.5	A07-59					A08-8	READ-N			
23	"											
24	"											
25	30/4	5.0	A07-93					A08-35	TW RMFM-P			
26	30/6	5.0	A07-94	W/W			W/W	A08-36	PR RMFM-N	-	2	-

FORM #0008 1-20-70

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306506-01

ECO	APPD	DATE	ECO	APPD	DATE
A-					
B00C	JDY	10-20-75			
C1029	JDY	2-18-76			

DRAWN: REMY DATE: 8-7-75
CHECKED: DATE:
ENGR APPD: J. D. YOUNG DATE: 8-8-75
PROJ ENGR: DATE:

TITLE: A. C. POWER

SHEET 1 OF 1

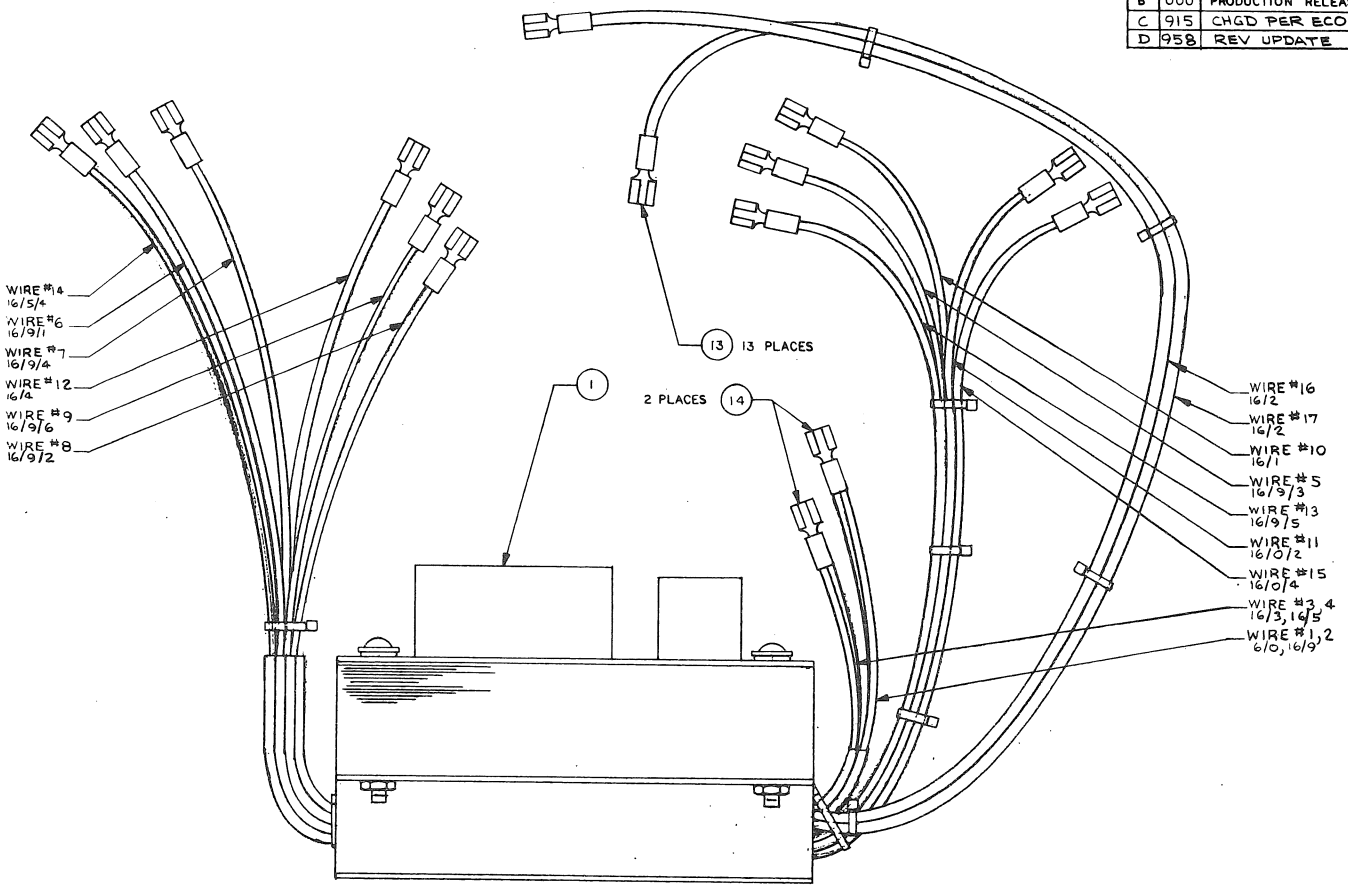
BM # 3306506-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1												
2												
3												
4	14/9	15"	CB1-3	CRIMP			CRIMP	TB1-3 RB	LO VAC	18	8	18
5	14/0	15"	CB1-4	CRIMP			CRIMP	TB1-1 RB	HI VAC	18	7	18
6												
7	18/0	25"	CB6-1	CRIMP			CRIMP	TB1-1 AT	HI VAC	17	14	17
8												
9												
10												
11	16/0	15"	K2-2	CRIMP			CRIMP TOGETHER	TB1-1 LB	HI VAC	18	9	19
12	16/0	10"	K1-2	CRIMP				TB1-1 LB	HI VAC	18	9	
13	16/2	9"	K1-1	CRIMP			CRIMP	C5-2		18	10	18
14												
15												
16												
17												
18												
19	16/5	6"	GND LUG X	CRIMP			CRIMP	TB1-5 LB	AC GND	16	12	18
20												
21												
22												
23												
24												
25												

FORM #0008 1-20-70

3306507-01 | DISTR CODE:

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
B	000	PRODUCTION RELEASE	E.I 10-15-75		DPB 10-17-75
C	915	CHGD PER ECO	EI 11-12-75		DPB 11/14/75
D	958	REV UPDATE	EI 12/3/75		DPB 12/4/75



PARTS LIST

NEXT ASSY	USED ON
APPLICATION	

NOTICE

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ± | 2 PLC | 3 PLC | | ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

SIGNATURE		DATE
DRAWN BY	E.IZUMI	10-15-75
CHK BY		
DFT APPD	R.A. Flamen	10-17-75
ENGRG APPD	J. D. Young	10-17-75
AUTH BY		

MATERIAL: SEE BILL OF MATERIAL

FINISH:

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

POWER TRANSFORMER ASSY.
120V, 60HZ
DM 940/980

SIZE	CODE IDENT NO.	
C	09150	3306507-01

SCALE 1/1 SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

3306507-01

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306507-01

ECO	APPD.	DATE	ECO	APPD	DATE
A-	[illegible]	8-8-75	D958	[illegible]	12-2-75
B000	[illegible]	10-17-75			
C915	[illegible]	11-11-75			

DRAWN: REMY DATE: 8-7-75 CHECKED: DATE:

ENGR APPD: D. Young DATE: 8-8-75 PROJ ENGR: DATE:

TITLE SHEET 1 OF 1

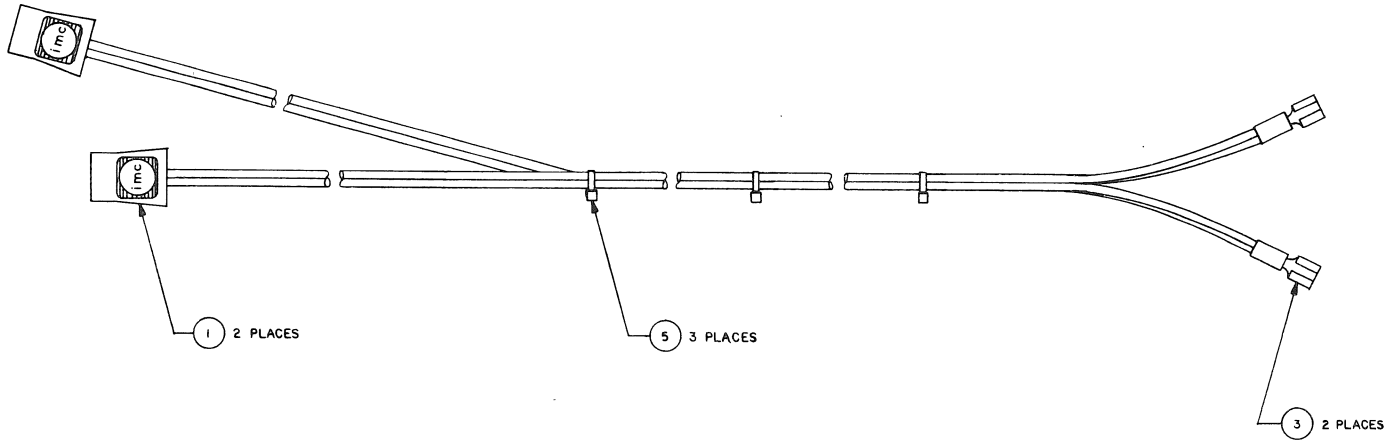
POWER TRANSFORMER ASSY
120 VAC, 60 HZ
DM 940/980

BM # 3306507-XX

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	16/0	4-1/2"	T1 Existing Wire	NONE			CRIMP TOGETHER	TB1-2 LB		-	-	14
2	16/9	4-1/2"						TB1-2 LB		-	-	
3	16/3	5-1/2"					CRIMP TOGETHER	TB1-4 LB		-	-	14
4	16/5	5-1/2"						TB1-4 LB		-	-	
5	16/9/3	12"					CRIMP	SMBRD-E5	36V C.T.	-	-	13
6	16/9/1	10"						SMBRD-E11	36V AC	-	-	13
7	16/9/4	8"						SMBRD-E9	36V AC	-	-	13
8	16/9/2	8"						PSMBD-1	8.5V AC	-	-	13
9	16/9/6	8"						PSMBD-3	8.5V AC	-	-	13
10	16/1	13"						PSMBD-7	20V AC	-	-	13
11	16/0/2	11-1/2						PSMBD-9	20V AC	-	-	13
12	16/4	9-1/2"						PSMBD-8	C.T.	-	-	13
13	16/9/5	10-1/2"						PSMBD-11	C.T.	-	-	13
14	16/5/4	11"						PSMBD-10	32V AC	-	-	13
15	16/0/4	10-1/2"						PSMBD-12	32V AC	-	-	13
16	16/2	20"						C7-1	RES. CAP.	-	-	13
17	16/2	20"	T1 Existing Wire	NONE			CRIMP	C7-2	RES. CAP.	-	-	13
18												
19												
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49												
50												
51												
52												

3306666-01 DISTR CODE: 1

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	E.I. 10-10-75		10-17-75
B	958	CHGD PER ECO	12-2-75		12-2-75



3306666-01

PARTS LIST

NOTICE

THIS DRAWING SHALL NOT BE DUPLICATED, USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF AMPEX CORPORATION. PROVIDED, HOWEVER, THAT IF THIS DRAWING IS SPECIFIED TO BE DELIVERED TO THE GOVERNMENT, OR TO A GOVERNMENT CONTRACTOR, PURSUANT TO A GOVERNMENT PRIME OR SUBCONTRACT, THE GOVERNMENT MAY MAKE SUCH USE OF THIS DRAWING AS IS PERMITTED BY THE APPLICABLE "DATA" CLAUSE SET FORTH IN SUCH CONTRACT OR SUBCONTRACT.

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐
DO NOT SCALE THIS PRINT

MATERIAL: SEE BILL OF MATERIAL
FINISH:

	SIGNATURE	DATE
DRAWN BY	E. IZUMI	10-10-75
CHK BY		
DFT APPD	H.A. Frances	10-17-75
ENGRG APPD	D. Irving	10-17-75
AUTH BY		

AMPEX COMPUTER PRODUCTS DIVISION
Marina del Rey, California 90291

CABLE ASSY,
MUFFIN FAN
(H8)

SIZE C | CODE IDENT NO. 09150 | 3306666-01
SCALE 1/1 | SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306666-01

ECO	APPD.	DATE	ECO	APPD	DATE
A000	[illegible]	[illegible]			
8958					

DRAWN: REMY
DATE: 10-1-75
CHECKED:
DATE:
ENGR APPD: [illegible]
DATE: [illegible]
PROJ ENGR:
DATE:

TITLE
CABLE ASSY,
MUFFIN FAN
(H8)

SHEET 1 OF 1

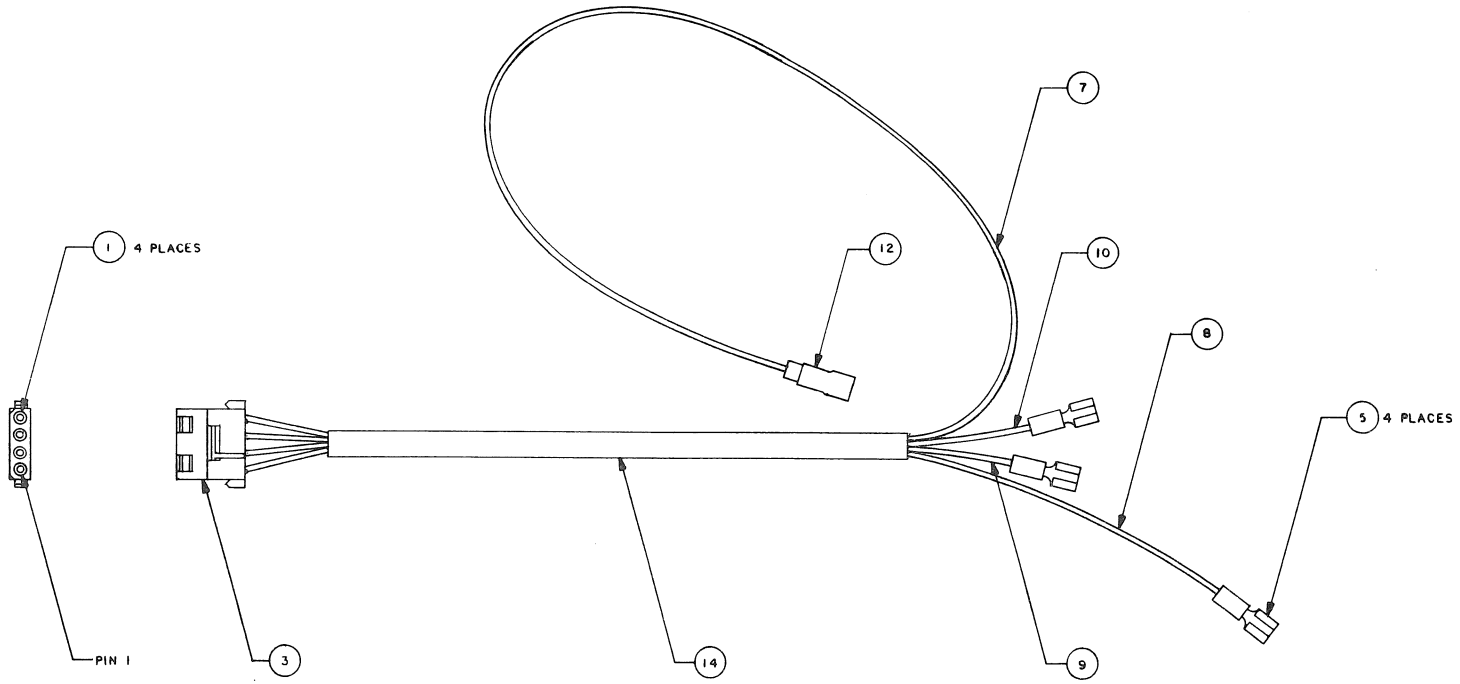
BM # 3306666-01

WIRE			FROM			TO			REMARKS	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL		FROM	WIRE	TO
1		19	H8P1	-			CRIMP W/ WIRE #3	TB1-2 RT		-	1	3
2		19	H8P1	-			CRIMP W/ WIRE #4	TB1-3 RT		-		3
3		27	H8P2	-			CRIMP W/ WIRE #1	TB1-2 RT		-	1	-
4		27	H8P2	-			CRIMP W/ WIRE #2	TB1-3 RT		-		-

FORM 68000 3-30-70

3306667-01 | DISTR CODE: 1

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	E.I. 10-9-75		10-17-75



PARTS LIST

NEXT ASSY	USED ON
APPLICATION	

NOTICE

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ± | 2 PLC | 3 PLC | ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

MATERIAL: SEE BILL OF MATERIAL

FINISH:

	SIGNATURE	DATE
DRAWN BY	E. IZUMI	10-9-75
CHK BY		
DFT APPD	H.O Flores	10-17-75
ENGRG APPD	L. L. Young	10-17-75
AUTH BY		

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

CABLE ASSY, PACK MOTOR (H9)

SIZE	CODE IDENT NO.	
C	09150	3306667-01

SCALE 1/1 | SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

3306667-01

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306667-01

ECO	APPD.	DATE	ECO	APPD	DATE
A000	[illegible]	[illegible]			

DRAWN: REMY
DATE: 10-1-75
CHECKED:
DATE:
ENGR APPD: [illegible]
DATE: [illegible]
PROJ ENGR:
DATE:

TITLE
CABLE ASSY,
PACK MOTOR
(H9)

SHEET 1 OF 1

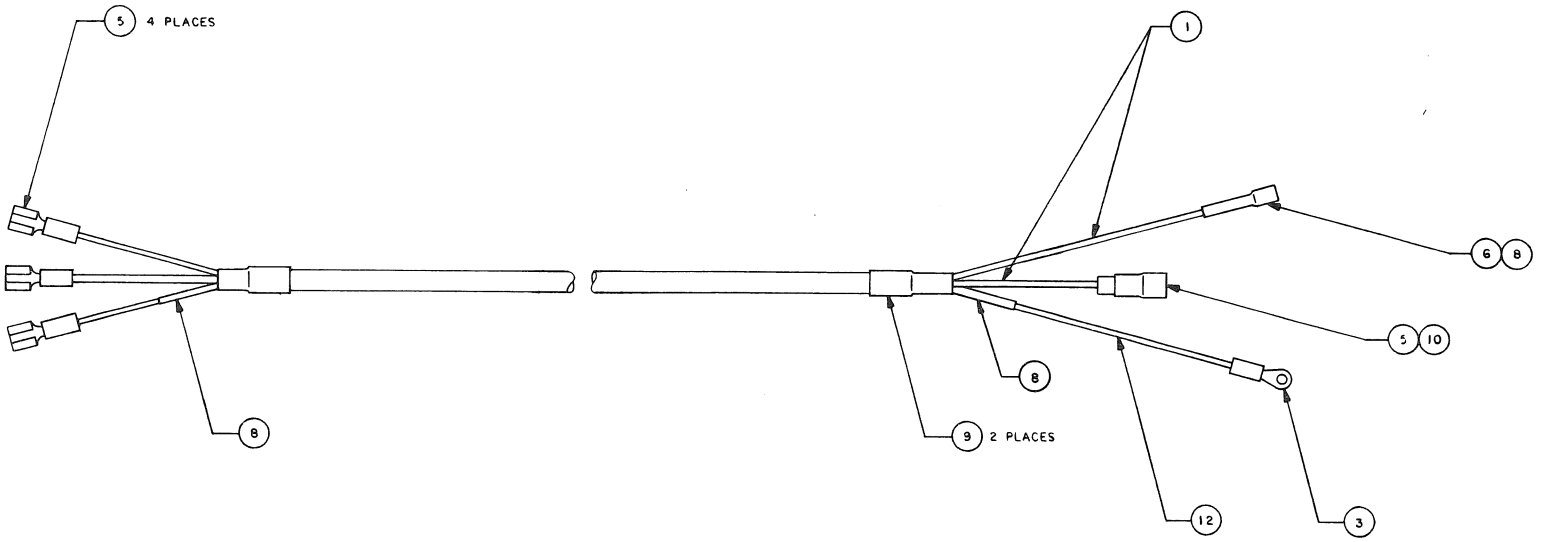
BM # 3306667-01

WIRE			FROM			TO			REMARKS	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL		FROM	WIRE	TO
1	16/2	13"	H9P1-1	CRIMP			CRIMP	C5-1		1	8	5
2	16/4	10"	H9P1-2	CRIMP			CRIMP	TB1-4 RT	PACK MOTOR	1	9	5
3	16/5	10"	H9P1-3	CRIMP			CRIMP	TB1-5 RB		1	10	5
4	16/0	26"	H9P1-4	CRIMP			CRIMP	K2-1		1	7	5

FORM #0000 1-20-70

4 3 2 3306668-01 DISTR CODE: 1

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	E.I. 10-9-75		10/20/75
B	000	CHGD ITEM 3 P/N	10/15/75		11/13/75



3306668-01

PARTS LIST

NEXT ASSY	USED ON
APPLICATION	

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ±	2 PLC	3 PLC	ANG

REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐

DO NOT SCALE THIS PRINT

SIGNATURE		DATE
DRAWN BY	E. IZUMI	10-9-75
CHK BY		
DFT APPD	H.A. Francis	10-20-75
ENGRG APPD	J.D. Lyons	10-20-75
AUTH BY		

MATERIAL: SEE BILL OF MATERIAL

FINISH:

AMPEX COMPUTER PRODUCTS DIVISION Marina del Rey, California 90291

CABLE ASSY, BRUSH MOTOR

SIZE	CODE IDENT NO.	
C	09150	3306668-01

SCALE 1/1 SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed In U.S.A.

4 3 2 1

AMPEX	SUNNYVALE CALIFORNIA	WIRE LIST	WL	3306668-01

ECO	APPD.	DATE	ECO	APPD	DATE
A000	JDJ	10/20/75			
B000	JDJ	11/19/75			

DRAWN: REMY
DATE: 10-1-75
CHECKED:
DATE:

ENGR APPD: J. D. Jeremy
DATE: 10/20/75
PROJ ENGR:
DATE:

TITLE: CABLE ASSY, BRUSH MOTOR

SHEET 1 OF 1

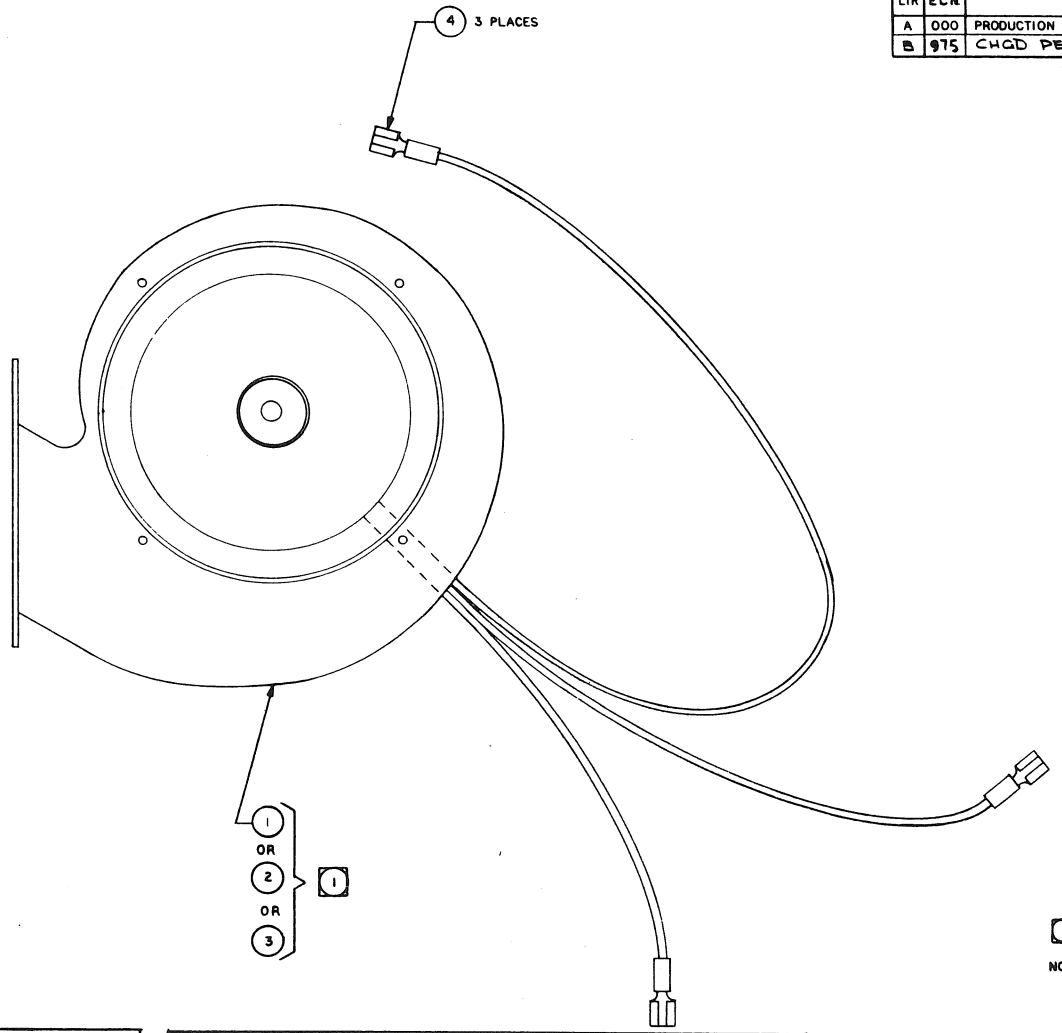
BM # 3306668-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	18/9	25-1/2	BRUSH MOTOR	CRIMP			CRIMP	TB1-3 LT	TW BRUSH MOTOR	6	1	5
2	18/0	24	K3-2	CRIMP			CRIMP	TB1-2 LT	PR POWER	5		5
3	18/5	6"	BRUSH MOTOR	CRIMP			SOLDER	SHIELD	SHLD	3	12	-
4	18/5	6"	TB1-5 LT	CRIMP			SOLDER	SHIELD		5	12	-

FORM #0008 1-20-70

3306669-XX | DISTR CODE:

REVISIONS					
LTR	ECN	DESCRIPTION	SIGNATURE AND DATE DFT	CHK	ENGRG
A	000	PRODUCTION RELEASE	E I. 10-15-75		JPB 10-17-75
B	975	CHGD PER ECO	E 1/14-76		JPB 1-19-76



1 SEE B/M FOR APPROPRIATE ITEM NO.

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ■

DASH NO.	DESCRIPTION
-01	BLOWER, 115V AC, 60 HZ
-02	BLOWER, 230V AC, 50 HZ
-03	BLOWER, 230V AC, 60 HZ

NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.
TOL ± | 2 PLC | 3 PLC | ANG
REMOVE BURRS AND SHARP EDGES YES ☐ NO ☐
DO NOT SCALE THIS PRINT

	SIGNATURE	DATE
DRAWN BY	E IZUMI	10-15-75
CHK BY		
DFT APPD	H.G. Seaman	10-17-75
ENGRG APPD	C.W. Young	10-17 75
AUTH BY		

MATERIAL: SEE BILL OF MATERIAL
FINISH:

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

CABLE ASSY, BLOWER MOTOR

SIZE	CODE IDENT NO.	
C	09150	3306669-XX

SCALE 1/1 | SHEET 1 OF 1

UC-3503.08 (Rev Dec 71) Printed in U.S.A.

3306669-XX

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306669-01

ECO	APPD.	DATE	ECO	APPD	DATE
A000	[illegible]	10-11-75			
B975	[illegible]	10-11-75			

DRAWN: REMY
DATE: 10-1-75
CHECKED:
DATE:
ENGR APPD: [illegible]
DATE:
PROJ ENGR:
DATE:

TITLE: CABLE ASSY, BLOWER MOTOR

SHEET 1 OF 1

BM # 3306669-XX

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	18/0	7"	Blower Motor Existing Wire				CRIMP	C6-1	HI VAC	-	-	3
2	18/1	8"	Blower Motor Existing Wire				CRIMP	C6-2	START CAP	-	-	3
3	18/9	21"	Blower Motor Existing Wire				CRIMP	TB1-4 RB	LO VAC	-	-	3

FORM #0008 1-20-70

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3306676-01

ECO	APPD.	DATE	ECO	APPD	DATE
8000	DPG	10/20/75			

DRAWN: H.A. Francis DATE: 10-20-75 CHECKED: DATE:

ENGR APPD: D. Young DATE: 10/20/75 PROJ ENGR: DATE:

TITLE: POWER SUPPLY FILTERS DM940/980

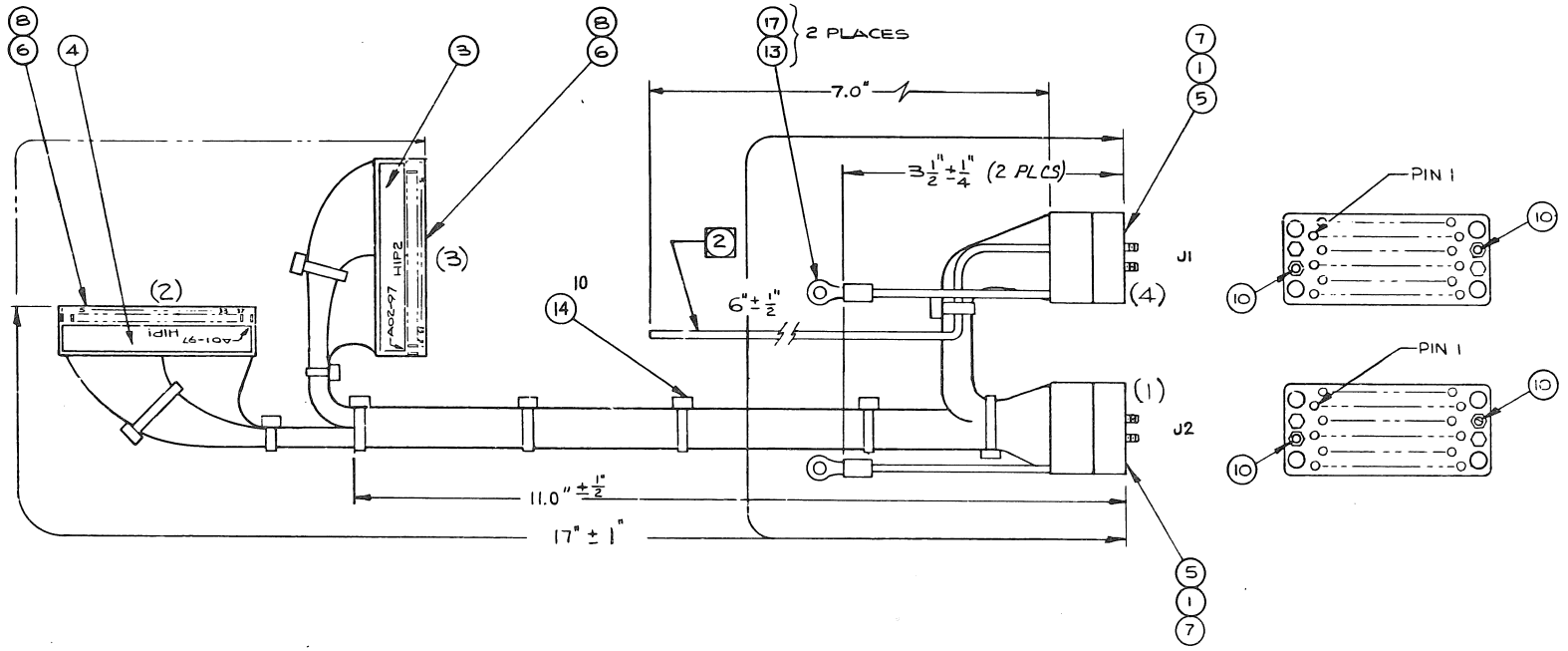
SHEET 1 OF 1

WIRE			FROM			TO			BM # 3306676-01	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	14/0	4-½"	C2 (+)	CRIMP			CRIMP	C1 (-)	DC GND	7	3	9
2	14/0	20"	PCMBD-2	CRIMP			TOGETHER	C1 (-)	DC GND	8	3	
3												
4	14/9	24"	C2(-)	CRIMP			CRIMP	PSMBD-6	-8.5VDC	7	5	8
5	14/2	21"	C1 (+)	CRIMP			CRIMP	PSMBD-4	+8.5BDC	7	4	8
6	14/0	10"	GND LUG Y	CRIMP			CRIMP	PSMBD-5	DC GND	7	3	8

FORM #0008 1-20-70

4 | 3 | 2 | 3308049-01 | DISTR CODE: DD | 1

LTR	ECO	DESCRIPTION	SIGNATURE AND DATE
A	000	PRODUCTION RELEASE	8-2-76
B	1240	CHGD. PER ECR 1240	
C	1375	CHGD PER ECO	
D	—	REVISED PER ECN 25944	30 DEC 77 / 17 JAN 78



2 CRIMP W/ITEM 1 & ROUTE TO J3-C IN HARNESS ASSY 3308055-01

1. NUMBER IN PARENTHESIS( ) INDICATES STATION NUMBER

NOTES: UNLESS OTHERWISE SPECIFIED

PARTS LIST ☐ WIRE LIST ☐

NOTICE

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UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.

TOL ±	2 PLC	3 PLC	ANG

REMOVE BURRS AND SHARP EDGES

DRILL TOL PER AND 10387

INTREPRET DRAWING PER ANS Y14.5

MATERIAL: SEE BILL OF MATERIAL

FINISH:

SIGNATURE		DATE
DRAWN BY	K. E. Olson	8-2-76
CHK BY	WBB	8-9-76
DFT APPD	W. Berby	8-9-1976
ENGRG APPD	J. Whitworth	8-17-1976
AUTH BY		

NEXT ASSY | USED ON

APPLICATION

AMPEX — COMPUTER PRODUCTS DIVISION, Marina del Rey, California 90291

HARNESS ASSY 1/O (DAISY CHAIN OPTION) (H1)

SIZE	CODE IDENT NO.	
C	09150	3308049-01

SCALE 1/1 | DO NOT SCALE THIS PRINT | SHEET 1 OF 1

UC-3503.08 (REV NOV 72) PRINTED IN U.S.A.

3308049-01

SUNNYVALE
CALIFORNIA

WIRE LIST

WL 3308049-01

ECO	APPD	DATE	ECO	APPD	DATE
A000	[illegible]	8-17-76	D2501	[illegible]	4-20-78
B1240	[illegible]	[illegible]-76			
C1[illegible]	[illegible]	[illegible]-77			

DRAWN: [illegible]SON
DATE:
CHECKED:
DATE

ENGR APPD: [illegible]
DATE: 8-17-76
PROJ ENGR:
DATE:

TITLE
HARNESS ASSY, I/O
(DAISY CHAIN OPTION)
D2[illegible]0 (H1)

SHEET 1 OF 3

BM # [illegible]-01

WIRE			FROM			TO				BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
1	26/0	5"	J1-1	CRIMP	4	1	CRIMP WITH W/3	J2-1	TW SELECT 0	1	19	7
2	26/9	5"	J1-4	CRIMP	4	1	CRIMP WITH W/4	J2-4	PR	1		7
3		17"	J2-1	CRIMP with W/1	1	2	CRIMP	P1-5	SELECT 0	7		8
4		17"	J2-4	CRIMP with W/2	1	2	CRIMP	P1-6		7		8
5		5"	J1-2	CRIMP	4	1	CRIMP WITH W/7	J2-2	SELECT 1	1		7
6		5"	J1-5	CRIMP	4	1	CRIMP WITH W/8	J2-5		1		7
7		17"	J2-2	CRIMP WITH W/5	1	2	CRIMP	P1-3	SELECT 1	7		8
8		17"	J2-5	CRIMP WITH W/6	1	2	CRIMP	P1-4		7		8
9		5"	J1-3	CRIMP	4	1	CRIMP WITH W/11	J2-3	SELECT 2	1		7
10		5"	J1-7	CRIMP	4	1	CRIMP WITH W/12	J2-7		1		7
11		17"	J2-3	CRIMP WITH W/9	1	2	CRIMP	P1-9	SELECT 2	7		8
12		17"	J2-7	CRIMP WITH W/10	1	2	CRIMP	P1-10		7		8
13		5"	J1-8	CRIMP	4	1	CRIMP WITH W/15	J2-8	SELECT 3	1		7
14		5"	J1-12	CRIMP	4	1	CRIMP WITH W/16	J2-12		1		7
15		17"	J2-8	CRIMP WITH W/13	1	2	CRIMP	P1-7	SELECT 3	7		8
16		17"	J2-12	CRIMP WITH W/14	1	2	CRIMP	P1-8		7		8
17		5"	J1-10	CRIMP	4	1	CRIMP WITH W/19	J2-10	INDEX	1		7
18		5"	J1-13	CRIMP	4	1	CRIMP WITH W/20	J2-13		1		7
19		17"	J2-10	CRIMP WITH W/17	1	3	CRIMP	P2-25	INDEX	7		8
20		17"	J2-13	CRIMP WITH W/18	1	3	CRIMP	P2-26		7		8
21		5"	J1-11	CRIMP	4	1	CRIMP WITH W/23	J2-11	UNSAFE	1		7
22		5"	J1-14	CRIMP	4	1	CRIMP WITH W/24	J2-14		1		7
23		17"	J2-11	CRIMP WITH W/21	1	3	CRIMP	P2-29	UNSAFE	7		8
24		17"	J2-14	CRIMP WITH W/22	1	3	CRIMP	P2-30		7		8
25		5"	J1-15	CRIMP	4	1	CRIMP WITH W/27	J2-15	ON CYL	1		7
26		5"	J1-18	CRIMP	4	1	CRIMP WITH W/28	J2-18		1		7
27		17"	J2-15	CRIMP WITH W/25	1	3	CRIMP	P2-33	ON CYL	7		8
28		17"	J2-18	CRIMP WITH W/26	1	3	CRIMP	P2-34		7		8
29		5"	J1-16	CRIMP	4	1	CRIMP WITH W/31	J2-16	DEV ENABLE	1		7
30		5"	J1-20	CRIMP	4	1	CRIMP WITH W/32	J2-20		1		7
31		17"	J2-16	CRIMP WITH W/29	1	2	CRIMP	P1-11	DEV ENABLE	7		8
32		17"	J2-20	CRIMP WITH W/30	1	2	CRIMP	P1-12		7		8
33		5"	J1-17	CRIMP	4	1	CRIMP WITH W/35	J2-17	READY	1		7
34		5"	J1-21	CRIMP	4	1	CRIMP WITH W/36	J2-21		1		7
35		17"	J2-17	CRIMP WITH W/33	1	3	CRIMP	P2-35	READY	7		8
36		17"	J2-21	CRIMP WITH W/34	1	3	CRIMP	P2-36		7		8
37		5"	J1-22	CRIMP	4	1	CRIMP WITH W/39	J2-22	SEL ENABLE	1		7
38		5"	J1-25	CRIMP	4	1	CRIMP WITH W/40	J2-25		1		7
39		17"	J2-22	CRIMP WITH W/37	1	2	CRIMP	P1-13	SEL ENABLE	7		8
40		17"	J2-25	CRIMP WITH W/38	1	2	CRIMP	P1-14		7		8
41		5"	J1-23	CRIMP	4	1	CRIMP WITH W/43	J2-23	BUS 0	1		7
42		5"	J1-26	CRIMP	4	1	CRIMP WITH W/44	J2-26		1		7
43		17"	J2-23	CRIMP WITH W/41	1	2	CRIMP	P1-37	BUS 0	7		8
44		17"	J2-26	CRIMP WITH W/42	1	2	CRIMP	P1-38		7		8
45		5"	J1-24	CRIMP	4	1	CRIMP WITH W/47	J2-24	BUS 1	1		7
46		5"	J1-27	CRIMP	4	1	CRIMP WITH W/48	J2-27		1		7
47		17"	J2-24	CRIMP WITH W/45	1	2	CRIMP	P1-39	BUS 1	7		8
48		17"	J2-27	CRIMP WITH W/46	1	2	CRIMP	P1-40		7		8
49		5"	J1-28	CRIMP	4	1	CRIMP WITH W/51	J2-28	BUS 2	1		7
50		5"	J1-31	CRIMP	4	1	CRIMP WITH W/52	J2-31		1		7
51	26/0	17"	J2-28	CRIMP WITH W/49	1	2	CRIMP	P1-33	TW BUS 2	7	19	8
52	26/9	17"	J2-31	CRIMP WITH W/50	1	2	CRIMP	P1-34	PR	7		8

SUNNYVALE
CALIFORNIA

WIRE LIST

3308049-01

ECO	APPD	DATE	ECO	APPD	DATE

DRAWN:
DATE:
CHECKED:
DATE:
ENGR APPD:
DATE
PROJ ENGR:
DATE

TITLE

HARNESS ASSY, I/O
(DAISY CHAIN OPTION)

SHEET 2 OF 3

WIRE			FROM			TO				EM ITEM NO		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL	REMARKS	FROM	WIRE	TO
53	26/0	5"	J1-29	CRIMP	4	1	CRIMP WITH W/55	J2-29	TW BUS 3		19	
54	26/9	5"	J1-32	CRIMP	4	1	CRIMP WITH W/56	J2-32	PR			
55		17"	J2-29	CRIMP WITH W/53	1	2	CRIMP	P1-35	BUS 3	7		8
56		17"	J2-32	CRIMP WITH W/54	1	2	CRIMP	P1-36		7		8
57		5"	J1-30	CRIMP	4	1	CRIMP WITH W/59	J2-30	BUS 4	1		7
58		5"	J1-33	CRIMP	4	1	CRIMP WITH W/60	J2-33		1		7
59		17"	J2-30	CRIMP WITH W/57	1	2	CRIMP	P1-29	BUS 4	7		8
60		17"	J2-33	CRIMP WITH W/58	1	2	CRIMP	P1-30		7		8
61		5"	J1-34	CRIMP	4	1	CRIMP WITH W/63	J2-34	BUS 5	1		7
62		5"	J1-37	CRIMP	4	1	CRIMP WITH W/64	J2-37		1		7
63		17"	J2-34	CRIMP WITH W/61	1	2	CRIMP	P1-31	BUS 5	7		8
64		17"	J2-37	CRIMP WITH W/62	1	2	CRIMP	P1-32		7		8
65		5"	J1-35	CRIMP	4	1	CRIMP WITH W/67	J2-35	BUS 6	1		7
66		5"	J1-38	CRIMP	4	1	CRIMP WITH W/68	J2-38		1		7
67		17"	J2-35	CRIMP WITH W/65	1	2	CRIMP	P1-25	BUS 6	7		8
68		17"	J2-38	CRIMP WITH W/66	1	2	CRIMP	P1-26		7		8
69		5"	J1-36	CRIMP	4	1	CRIMP WITH W/71	J2-36	BUS 7	1		7
70		5"	J1-39	CRIMP	4	1	CRIMP WITH W/72	J2-39		1		7
71		17"	J2-36	CRIMP WITH W/69	1	2	CRIMP	P1-27	BUS 7	7		8
72		17"	J2-39	CRIMP WITH W/70	1	2	CRIMP	P1-28		7		8
73		5"	J1-40	CRIMP	4	1	CRIMP WITH W/75	J2-40	BUS 8	1		7
74		5"	J1-43	CRIMP	4	1	CRIMP WITH W/75	J2-43		1		7
75		17"	J2-40	CRIMP WITH W/73	1	2	CRIMP	P1-19	BUS 8	7		8
76		17"	J2-43	CRIMP WITH W/74	1	2	CRIMP	P1-20		7		8
77		5"	J1-41	CRIMP	4	1	CRIMP WITH W/79	J2-41	BUS 9	1		7
78		5"	J1-44	CRIMP	4	1	CRIMP WITH W/80	J2-44		1		7
79		17"	J2-41	CRIMP WITH W/77	1	2	CRIMP	P1-21	BUS 9	7		8
80		17"	J2-44	CRIMP WITH W/78	1	2	CRIMP	P1-22		7		8
81		5"	J1-42	CRIMP	4	1	CRIMP WITH W/83	J2-42	ADDR MK DET	1		7
82		5"	J1-45	CRIMP	4	1	CRIMP WITH W/84	J2-45		1		7
83		17"	J2-42	CRIMP WITH W/81	1	3	CRIMP	P2-39	ADDR MK DET	7		8
84		17"	J2-45	CRIMP WITH W/82	1	3	CRIMP	P2-40		7		8
85		5"	J1-46	CRIMP	4	1	CRIMP WITH W/87	J2-46	SET CYL	1		7
86		5"	J1-49	CRIMP	4	1	CRIMP WITH W/88	J2-49		1		7
87		17"	J2-46	CRIMP WITH W/85	1	2	CRIMP	P1-17	SET CYL	7		8
88		17"	J2-49	CRIMP WITH W/86	1	2	CRIMP	P1-18		7		8
89	26/0	5"	J1-47	CRIMP	4	1	CRIMP	J2-47	TW SPARE	1	19	1
90	26/9	5"	J1-50	CRIMP	4	1	CRIMP	J2-50	PR	1		1
91												
92												
93	26/0	5"	J1-48	CRIMP	4	1	CRIMP WITH W/95	J2-48	TW SET HAR	1	19	7
94	26/9	5"	J1-51	CRIMP	4	1	CRIMP WITH W/96	J2-51	PR	1		7
95		17"	J2-48	CRIMP WITH W/93	1	2	CRIMP	P1-15	SET HAR	7		8
96		17"	J2-51	CRIMP WITH W/94	1	2	CRIMP	P1-16		7		8
97		5"	J1-52	CRIMP	4	1	CRIMP WITH W/99	J2-52	CONTROL	1		7
98		5"	J1-55	CRIMP	4	1	CRIMP WITH W/100	J2-55		1		7
99		17"	J2-52	CRIMP WITH W/97	1	2	CRIMP	P1-1	CONTROL	7		8
100		17"	J2-55	CRIMP WITH W/98	1	2	CRIMP	P1-2		7		8
101		5"	J1-53	CRIMP	4	1	CRIMP WITH W/103	J2-53	WRT PROT	1		7
102		5"	J1-56	CRIMP	4	1	CRIMP WITH W/104	J2-56		1		7
103	26/0	17"	J2-53	CRIMP WITH W/101	1	3	CRIMP	P2-37	TW WRT PROT	7	19	8
104	26/9	17"	J2-56	CRIMP WITH W/102	1	3	CRIMP	P2-38	PR	7		8

SUNNYVALE CALIFORNIA

WIRE LIST

W/L 3308049-01

ECO	APPD	DATE	ECO	APPD	DATE

DRAWN: DATE:
CHECKED: DATE
ENGR APPD: DATE
PROJ ENGR: DATE:

TITLE
HARNESS ASSY, I/O
(DAISY CHAIN OPTION)
DM940/980

SHEET 3 OF 3

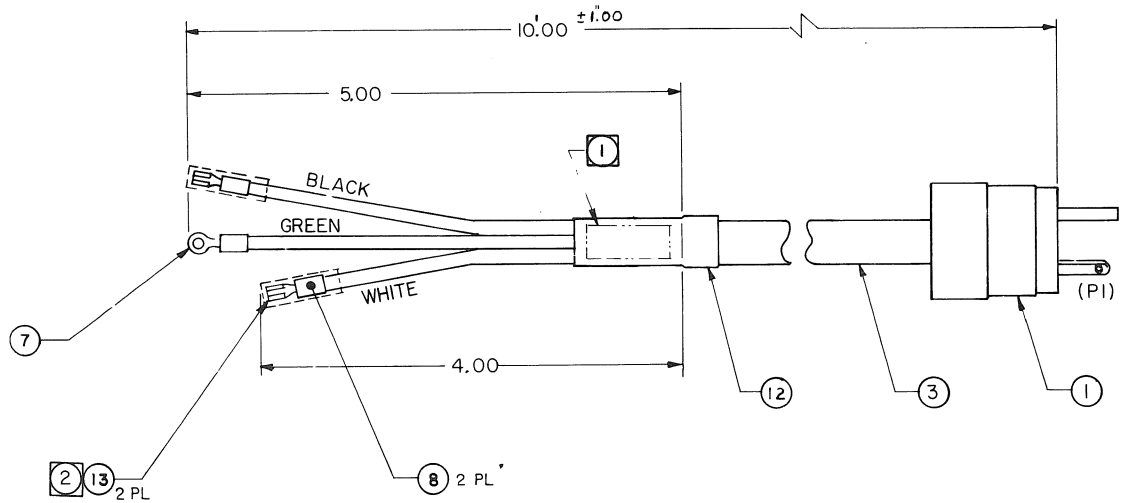
(FH)

BM # [illegible]-01 BM ITEM NO

WIRE			FROM			TO			REMARKS	FROM	WIRE	TO
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA.	STA	PROCESS	REF DESIG TERMINAL				
105	26/0	5"	J1-54	CRIMP	4	1	CRIMP WITH W/107	J2-54	TW SECTOR 0	1	19	-
106	26/9	5"	J1-57	CRIMP	4	1	CRIMP WITH W/108	J2-57	PR	1		-
107	"	17"	J2-54	CRIMP WITH W/105	1	3	CRIMP	P2-7	SECTOR 0	7		8
108		17"	J2-57	CRIMP WITH W/106	1	3	CRIMP	P2-8		7		8
109		5"	J1-58	CRIMP	4	1	CRIMP WITH W/111	J2-58	SECTOR 1	1		7
110		5"	J1-62	CRIMP	4	1	CRIMP WITH W/112	J2-62		1		7
111		17"	J2-58	CRIMP WITH W/109	1	3	CRIMP	P2-9	SECTOR 1	7		8
112		17"	J2-62	CRIMP WITH W/110	1	3	CRIMP	P2-10		7		8
113		5"	J1-59	CRIMP	4	1	CRIMP WITH W/115	J2-59	SECTOR 2	1		7
114		5"	J1-63	CRIMP	4	1	CRIMP WITH W/116	J2-63		1		7
115		17"	J2-59	CRIMP WITH W/113	1	3	CRIMP	P2-19	SECTOR 2	7		8
116		17"	J2-63	CRIMP WITH W/114	1	3	CRIMP	P2-20		7		8
117		5"	J1-60	CRIMP	4	1	CRIMP WITH W/119	J2-60	SECTOR 3	1		7
118		5"	J1-64	CRIMP	4	1	CRIMP WITH W/120	J2-64		1		7
119		17"	J2-60	CRIMP WITH W/117	1	3	CRIMP	P2-21	SECTOR 3	7		8
120		17"	J2-64	CRIMP WITH W/118	1	3	CRIMP	P2-22		7		8
121		5"	J1-65	CRIMP	4	1	CRIMP WITH W/123	J2-65	SECTOR 4	1		7
122		5"	J1-70	CRIMP	4	1	CRIMP WITH W/124	J2-70		1		7
123		17"	J2-65	CRIMP WITH W/121	1	3	CRIMP	P2-11	SECTOR 4	7		8
124		17"	J2-70	CRIMP WITH W/122	1	3	CRIMP	P2-12		7		8
125		5"	J1-66	CRIMP	4	1	CRIMP WITH W/127	J2-66	SECTOR 5	1		7
126		5"	J1-71	CRIMP	4	1	CRIMP WITH W/128	J2-71		1		7
127		17"	J2-66	CRIMP WITH W/125	1	3	CRIMP	P2-13	SECTOR 5	7		8
128		17"	J2-71	CRIMP WITH W/126	1	3	CRIMP	P2-14		7		8
129		5"	J1-67	CRIMP	4	1	CRIMP WITH W/131	J2-67	SECTOR 6	1		7
130		5"	J1-72	CRIMP	4	1	CRIMP WITH W/132	J2-72		1		7
131	26/0	17"	J2-67	CRIMP WITH W/129	1	3	CRIMP	P2-15	TW SECTOR 6	7	19	8
132	26/9	17"	J2-72	CRIMP WITH W/130	1	3	CRIMP	P2-16	PR	7		8
133												
134												
135												
136												
137	26/0	5"	J1-74	CRIMP	4	1	CRIMP WITH W/139	J2-74	TW SECTOR MK	1	19	7
138	26/9	5"	J1-77	CRIMP	4	1	CRIMP WITH W/140	J2-77	PR	1		7
139	"	17"	J2-74	CRIMP WITH W/137	1	3	CRIMP	P2-27	SECTOR MK	7		8
140		17"	J2-77	CRIMP WITH W/138	1	3	CRIMP	P2-28		7		8
141		5"	J1-75	CRIMP	4	1	CRIMP WITH W/143	J2-75	SEEK ERR	1		7
142		5"	J1-78	CRIMP	4	1	CRIMP WITH W/144	J2-78		1		7
143	26/0	17"	J2-75	CRIMP WITH W/141	1	3	CRIMP	P2-31	TW SEEK ERR	7	19	8
144	26/9	17"	J2-78	CRIMP WITH W/142	1	3	CRIMP	P2-32	PR	7		8
145												
146	22/0	5"	J1-80	CRIMP	4	1	CRIMP WITH W/147	J2-80	DC GROUND	1	18	7
147	22/0	17"	J2-80	CRIMP WITH W/146	1	3	CRIMP	P2-6	DC GROUND	7	18	8
148	22/5	3"	J1-82	CRIMP	4	4	CRIMP	FRAME	FRAME GND	1	17	13
149	22/5	3"	J2-82	CRIMP	1	1	CRIMP	FRAME	FRAME GND	1	17	13
150	26/9	5"	J1-76	CRIMP	4	1	CRIMP WITH W/151	J2-76	HOLD	1		7
151	26/9	17"	J2-76	CRIMP WITH W/150	1	3	CRIMP	P2-4	HOLD	7		8
152	26/0	17"	J2-73	CRIMP	1	3	CRIMP	P2-15	TW SEQ IN	1		8
153	26/9	17"	J1-73	CRIMP WITH W/154	4	3	CRIMP	P2-17	PR SEQ OUT	7		8
154	26/9	7"	J1-73	CRIMP WITH W/153	4	-	CRIMP	J3-C	SEQ OUT	7		1

2 3309035-01 | DISTR CODE: DE 1

REVISIONS					
LTR	ZONE	DESCRIPTION	ORIGINATOR AND DATE		
			DRAWN BY	ENGR APPD	
A	—	PRODUCTION RELEASE		11/22/77	



(2) SLEEVING (ITEM13) INDICATED BY DOTTED LINE TO BE SHRUNK-ON AFTER TERMINAL HAS BEEN CRIMPED & INSERTED INTO MATING TERMINAL.

(1) MARK ASSY NUMBER AND REVISION IN .12 HIGH VERTICAL GOTHIC LETTERING WITH PERMANENT INK WHERE SHOWN PER MIL-STD-130. 3309035-01 A

NOTES UNLESS OTHERWISE SPECIFIED.

PARTS LIST ■ WIRE LIST ■

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ±1/64 DECIMALS .XX ±.01 .XXX ±.005 ANGLES ±1°. REMOVE BURRS AND SHARP EDGES. DO NOT SCALE THIS PRINT.

	NAME	DATE
DRAWN BY	D. Myers	9/26/77
ENGR APPD	[illegible]	11/22/77

MATERIAL —

FINISH —

AMPEX DATA PRODUCTS DIVISION

CABLE ASSEMBLY
AC POWER (60 Hz)
DM 900

SIZE	IDENT NO	DRAWING NO
C	09150	3309035-01

USED ON		SHEET 1 OF 1
NONE	—	

3309035-01 B

FORM 001 0-22-75

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3309035-01

ECO	APPD	DATE	ECO	APPD	DATE

DRAWN: E. [illegible] DATE: 9/22/67

ENGR APPD: DATE:

CHECKED: DATE:

PROJ ENGR: DATE:

TITLE

CABLE ASSEMBLY
AC POWER (60 HZ)

SHEET 1 OF 1

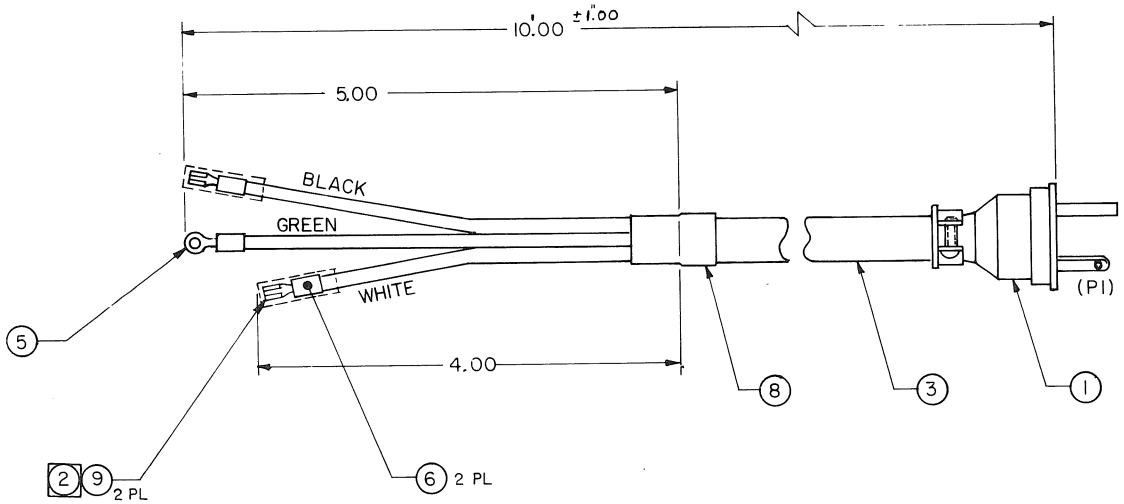
BM # 3309035-01

WIRE			FROM			TO			REMARKS	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL		FROM	WIRE	TO
1	14/0		P1-H	SCR (GOLD)			CRIMP	FL1-4		1	3	8
2	14/9	10'	P1-L	SCR (SILVER)			CRIMP	FL1-5				8
3	14/5		P1-G	SCR (ROUND GOLD)			CRIMP	GND LUG Z				7

FORM #0008 1-20-70

2 3309036-01 | DISTR CODE: DE 1

REVISIONS					
LTR	ECO	DESCRIPTION	SIGNATURE AND DATE: DRAWN BY	CHK BY	ENGRG APPD
A	—	PRODUCTION RELEASE	—	[illegible] 3/77	[illegible] 4/9/77



(2) SLEEVING (ITEM 9) INDICATED BY DOTTED LINE TO BE SHRUNK-ON AFTER TERMINAL HAS BEEN SOLDERED TO MATING CONNECTOR.

(1) MARK ASSY NUMBER AND REVISION IN .12 HIGH VERTICAL GOTHIC LETTERING WITH PERMANENT INK WHERE SHOWN PER MIL-STD-130. 3309036-01 A

NOTES: UNLESS OTHERWISE SPECIFIED.

PARTS LIST ■

NOTICE

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOL	2 PLC	3 PLC		ANG
±	—	—	—	—

REMOVE BURRS AND SHARP EDGES

DO NOT SCALE THIS PRINT

MATERIAL —

FINISH —

SIGNATURE		DATE
DRAWN BY	[illegible]	3/8/77
CHK BY	[illegible]	4/9/77
DET APPD		
ENGRG APPD	[illegible]	4/11/77
AUTH BY		

AMPEX DATA PRODUCTS DIVISION

CABLE ASSEMBLY AC POWER (50 Hz)

DM 900

SIZE	CODE IDENT NO	
C	09150	3309036-01

SCALE NONE — SHEET 1 OF 1

3309036-01 B

FORM 0011 10-22-75

4 3 2 1

DISTT. CODE:DE

AMPEX SUNNYVALE CALIFORNIA

WIRE LIST

WL 3309036-01

SHEET 1 OF 1

ECO	APPD	DATE	ECO	APPD	DATE
A PROD REL					

DRAWN: E. Williams DATE: 9/7/77
CHECKED: E. Williams DATE: 9/9/77
ENGR APPD: DATE:
PROJ ENGR: DATE:

TITLE
CABLE ASSEMBLY
A.C, POWER (50 HZ)
DM 900

BM # 3309036-01

WIRE			FROM			TO			REMARKS	BM ITEM NO.		
WIRE NO.	GAUGE/ DESC	LGTH	REF DESIG TERMINAL	PROCESS	STA	STA	PROCESS	REF DESIG TERMINAL		FROM	WIRE	TO
1	18/1	10'	P1-GOLD	SCREW			CRIMP	FL1-4		1	3	6
2	18/6		P1-SILVER	SCREW			CRIMP	FL1-5				6
3	18/54		P1-GRN/YEL	SCREW			CRIMP	GND LUG Z				5

FORM #0008 1-20-70

SIGNAL LISTING

This section provides a computerized alphabetical listing, by mnemonic name, of all signals exchanged between the logic circuit boards of the disk drive.

The following typical example defines the information appearing in each column of the printout.

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
COAR-H	A03	3	73	1.25				5510-01	SCRON
COAR-H	A03	3	44	00.00	311	COARSE TRACK		5680-01	POAMP

where:

SIGNAL — is the mnemonic name assigned to the signal.

LOC — is the circuit board location (origin or destination) of the signal.

NOTE

If the integrated circuit (IC) type is identified in column six (311), as in the above example, then the board location (A05) is the origin or source of the signal.

SHT — is the sheet number of the schematic drawing this signal is found on.

PIN — is the pin number on the schematic drawing this signal is present on.

LOAD — designates the number of loads on the logic circuit. This information is provided for design engineering use to ensure that the logic loading capabilities are not exceeded.

TYPE — defines the IC type and also indicates that the related circuit board (in this case A05) is the signal source. When this term is missing, the related board would be a signal destination.

DESC — is the signal description (common name).

DEST — is the point where the signal either enters or leaves the back panel wiring.

DWG — is the schematic drawing number on which the signal is found.

BOARD — is the mnemonic name given to the circuit board.

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
AAAA-G	A00		7	00.00		03 910			
AAAAAA	A00		1	00.00		REVISION HISTORY		9999-99	HSTRY
AAAAAB	A00		2	00.00		REV INCLUDES ECS		9999-99	HSTRY
AAAAAC	A00		3	00.00				9999-99	HSTRY
AAAAAD	A00		4	00.00		00 RELEASE LEVEL		9999-99	HSTRY
AAAAAE	A01		5	00.00		01 RELEASE LEVEL			
AAAAF	A00		6	00.00		02			
ADMK-L	A01	3	46	00.00	00	ADDRESS MARK ENABLE		5630-01	RCDHC
ADMK-L	A08	3	60	1.00				5570-01	DLOCP
ADMK-L	A07	2	97	1.00				5720-01	SEPDA
AGCH-H	A08	1	5	00.00		AGC TO HEAD BOARD		5570-01	DLOCP
AGCH-H	A07		72	00.00		H4P1-14 MX-3		5720-01	SEPDA
AMRK-L	A07	2	47	00.00	03	ADDR MARK DETECTED		5720-01	SEPDA
AMRK-L	A02	4	39	1.00				5640-01	PCISX
ATTN-L	A02	4	41	00.00				5640-01	PCISX
ATTN-L	A02	4	47	1.00				5640-01	PCISX
ATTN-L	A03	4	43	00.00	08	ATTENTION		5510-01	SRCON
ATTN-L	A08	4	32	1.00				5570-01	DLOCP
ATTN-N	A08	4	16	00.00	5110	ATTENTION	H2P1-20	5570-01	DLOCP
ATTN-P	A08	4	14	00.00	5110	ATTENTION	H2P1-22	5570-01	DLOCP
BMRD-L	A05	2	19	00.00	3300	BRUSH MOTOR RELAY	H6P1-15	5680-01	POAMP
BMRN-L	A05	2	25	1.00				5680-01	POAMP
BMRN-L	A02	1	23	00.00	00	BRUSH MOTOR		5640-01	PCISX
BREX-H	A02	1	24	1.00				5640-01	PCISX
BREX-H	A08	2	68	00.00	04	BRUSHES EXTENDED		5570-01	DLOCP
BTAC-A	A04	1	61	00.00				5610-01	SRAMP
BTAC-A	A04	2	37	00.00	1458	BUFFERED TACH OUT		5610-01	SRAMP
CDS1-L	A08	2	85	00.00		SELECTED INDICATOR	H3P1-27	5570-01	DLOCP
CDS2-L	A08	2	83	00.00		UNSAFE INDICATOR	H3P1-25	5570-01	DLOCP

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
CDS3-L	A08	2	87	00.00		READY INDICATOR	H3P1-29	5570-01	DLOCP
CDS4-L	A08		59	00.00		READ ONLY INDICATOR	H3P1-1	5570-01	DLOCP
CFBK-A	A04		11	00.00		CURRENT FEEDBACK	H7P1-11	5610-01	SRAMP
CMIA-L	A08	2	89	2.00		ID PLUG INSERTED	H3P1-31	5570-01	DLOCP
CMI0-L	A08	2	84	1.00		ID BIT 0	H3P1-26	5570-01	DLOCP
CMI1-L	A08	2	86	1.00		ID BIT 1	H3P1-28	5570-01	DLOCP
CMI2-L	A08	2	83	1.00		ID BIT 2	H3P1-30	5570-01	DLOCP
CMI3-L	A08	2	90	1.00		ID BIT 3	H3P1-32	5570-01	DLOCP
CNSL-L	A01	2	39	1.00	5108	CONTROL SELECT		5630-01	RCDHC
COAR-H	A03	3	73	1.25					
COAR-H	A05	3	44	00.00	311	COARSE TRACK		5510-01 5680-01	SRCON POAMP
CSW1-H	A08	2	97	1.00		WRT PROTECT SW NC	H3P1-39	5570-01	DLOCP
CSW1-L	A08	2	98	1.00		WRT PROTECT SW NO	H3P1-40	5570-01	DLOCP
CSW2-H	A08	2	96	1.00		START STOP SWITCH NC	H3P1-38	5570-01	DLOCP
CSW2-L	A08	2	94	1.00		START STOP SWITCH NO	H3P1-36	5570-01	DLOCP
CSW3-H	A08	2	92	1.00		DOOR CLOSED SWITCH NC	H3P1-34	5570-01	DLOCP
CSW3-L	A08	2	95	1.00		DOOR CLOSED SWITCH NO	H3P1-37	5570-01	DLOCP
CSW4-H	A08	2	91	1.00		FAULT CLR SWITCH NC	H3P1-33	5570-01	DLOCP
CSW4-L	A08	2	93	1.00		FAULT CLR SWITCH NO	H3P1-35	5570-01	DLOCP
CYPL-H	A03	4	69	00.00	04	CYLINDER PULSE			
CYPL-H	A01	4	38	1.00				5510-01 5630-01	SRCON RCDHC
C001-H	A01	4	32	00.00	174	CAR 0 (1)			
C001-H	A05	1	50	1.00				5630-01 5680-01	RCDHC POAMP
C064-H	A07		71	00.00		H4P1-13 MX-P			
C064-H	A01	4	35	1.00	175	CAR 6 (64)		5720-01 5630-01	SEPDA RCDHC
C128-H	A01	4	37	1.00	175	CAR 7 (128)			
C128-H	A07		70	00.00		H4P1-12 MX-N		5630-01 5720-01	RCDHC SEPDA

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
C256-H	A07		69	00.00			H4P1-11 MX-M	5720-01	SEPDA
C256-H	A01	4	31	1.00	175	CAR 8 (256)		5630-01	RCDHC
C512-H	A01	4	33	1.00	175	CAR 9 (512)		5630-01	RCDHC
C512-H	A07		68	00.00			H4P1-10 MX-L	5720-01	SEPDA
DBRD-L	A05	2	13	00.00	1711	DYNAMIC BRAKE DRIVE		5680-01	POAMP
DBRD-L	A04	3	12	00.00		DYNAMIC BRAKE	H7P1-12	5610-01	SRAMP
DCSW-H	A02	1	26	2.00				5640-01	PCISX
DCSW-H	A08	2	74	00.00	04	DOOR CLOSED SWITCH		5570-01	DLOCP
DSEL-L	A08	2	71	1.00				5570-01	DLOCP
DSEL-L	A01	2	6	00.00	5108	SELECT ENABLE		5630-01	RCDHC
DSEQ-H	A01	1	17	1.00				5630-01	RCDHC
DSEQ-H	A02	5	59	1.00				5640-01	PCISX
DSEQ-H	A08	2	75	00.00	04			5570-01	DLOCP
DSER-L	A07	2	63	1.00				5720-01	SEPDA
DSER-L	A01	3	48	00.00	00	DATA STROBE EARLY		5630-01	RCDHC
DSLT-L	A01	3	47	00.00	00	DATA STROBE LATE		5630-01	RCDHC
DSLT-L	A07	2	65	1.00				5720-01	SEPDA
DSL0-L	A08	2	79	1.00				5570-01	DLOCP
DSL0-L	A01	2	54	00.00	5108	DEVICE SELECT 0		5630-01	RCDHC
DSL1-L	A01	2	53	00.00	5108	DEVICE SELECT 1		5630-01	RCDHC
DSL1-L	A08	2	80	1.00				5570-01	DLOCP
DSL2-L	A08	2	77	1.00				5570-01	DLOCP
DSL2-L	A01	2	52	00.00	5108	DEVICE SELECT 2		5630-01	RCDHC
DSL3-L	A01	2	51	00.00	5108	DEVICE SELECT 3		5630-01	RCDHC
DSL3-L	A08	2	78	1.00				5570-01	DLOCP
DYBK-L	A05	2	23	1.00				5680-01	POAMP
DY3K-L	A02	1	21	00.00	00	DYNAMIC BRAKE		5640-01	PCISX
EAMP-A	A04	3	9	00.00				5610-01	SRAMP
EAMP-A	A04	1	89	00.00	301	ERROR AMPLIFIER OUT		5610-01	SRAMP
EMER-A	A04	1	90	00.00				5610-01	SRAMP
EMER-A	A04	2	49	00.00		EMERGENCY RETRACT		5610-01	SRAMP
FAMP-A	A04		13	00.00		FORWARD AMPLIFIER	H7P1-13	5610-01	SRAMP

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SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
FINE-H	A03	3	72	1.25	311	FINE TRACK		5510-01	SRCON
FINE-H	A05	3	43	00.00				5680-01	POAMP
FINE-H	A08	3	40	1.00				5570-01	DLOCP
F001-L	A03	4	63	00.00	42	FORWARD 1		5510-01	SRCON
F001-L	A04	1	23	1.00				5610-01	SRAMP
F002-L	A03	4	79	00.00	42	FORWARD 2		5510-01	SRCON
F002-L	A04	1	97	1.00				5610-01	SRAMP
F004-L	A04	1	96	1.00	42	FORWARD 4		5610-01	SRAMP
F004-L	A03	4	67	00.00				5510-01	SRCON
F008-L	A03	4	68	00.00	42	FORWARD 8		5510-01	SRCON
F008-L	A04	1	95	1.00				5610-01	SRAMP
F016-L	A04	1	94	1.00	42	FORWARD 16		5610-01	SRAMP
F016-L	A03	4	65	00.00				5510-01	SRCON
F032-L	A03	4	66	00.00	42	FORWARD 32		5510-01	SRCON
F032-L	A04	1	93	1.00				5610-01	SRAMP
F064-L	A04	1	92	1.00	42	FORWARD 64		5610-01	SRAMP
F064-L	A03	4	62	00.00				5510-01	SRCON
F128-L	A03	4	59	00.00	42	FORWARD 128		5510-01	SRCON
F128-L	A04	1	91	1.00				5610-01	SRAMP
F256-L	A04	1	86	1.00	42	FORWARD 256		5720-01	SEPDA
F256-L	A03	4	60	00.00				5720-01	SEPDA
								5570-01	DLOCP
GD10-G	A07		2	00.00				5720-01	SEPDA
GD10-G	A07		40	00.00				5720-01	SEPDA
GD10-G	A08		22	00.00					
GD12-G	A07		10	00.00				5510-01	SRCON
GD12-G	A07		80	00.00				5510-01	SRCON
GHLD-H	A03	1	90	2.00	08	GATE HD LD,REZ,OFF DELAY		5510-01	SRCON
GHLD-H	A03	2	12	00.00				5510-01	SRCON
GRDY-H	A03	3	8	00.00	00	GATE READY DELAY			
GRDY-H	A03	1	93	2.00				5610-01	SRAMP
GRD2-G	A04		1	00.00		SHIELD GROUND	H7P1-6	5610-01	SRAMP
GRD2-G	A04		6	00.00					

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
GRD3-G	A04		2	00.00				5610-01	SRAMP
GRD3-G	A04		8	00.00		SHIELD GROUND	H7P1-8	5610-01	SRAMP
GRD4-G	A05		1	00.00				5680-01	POAMP
GRD4-G	A05	3	18	00.00				5680-01	POAMP
GRD5-G	A05	3	8	00.00				5680-01	POAMP
GRD5-G	A05		2	00.00				5680-01	POAMP
GRD6-G	A05		99	00.00				5680-01	POAMP
GRD6-G	A05		92	00.00		SERVC AMP SHIELD	H5P1-8	5680-01	POAMP
GRD7-G	A07		79	00.00				5720-01	SEPDA
GRD7-G	A07		91	00.00		GROUND	H4P1-33 MX-A	5720-01	SEPDA
GRD7-G	A07		99	00.00				5720-01	SEPDA
GRD8-G	A07		1	00.00				5720-01	SEPDA
GRD8-G	A07		39	00.00				5720-01	SEPDA
GRD8-G	A05		20	00.00				5680-01	POAMP
GSKI-H	A03	1	87	00.00	74	SK INC. DELAY 100-700 MS		5510-01	SRCON
GTD7-H	A03	1	88	1.00				5510-01	SRCON
GTD7-H	A03	3	7	00.00	04	GATE SK INC DELAY 700 MS		5510-01	SRCON
HDDL-L	A03	4	76	2.50				5510-01	SRCON
HDDL-L	A03	1	98	00.00	9602	HEAD LOAD DELAY 50 MS		5510-01	SRCON
HDEX-H	A04	3	33	1.00				5610-01	SRAMP
HDEX-H	A02	1	19	3.00				5640-01	PCISX
HDEX-H	A03	2	13	2.00		HEADS EXTENDED SWITCH		5510-01	SRCON
HDEX-H	A08	2	37	00.00	04	HEADS EXTENDED SWITCH		5570-01	DLOCP
HDLR-L	A03	2	26	4.00	10			5510-01	SRCON
HEAD-H	A03	1	97	2.00				5510-01	SRCON
HEAD-H	A05	2	32	00.00	04	HEADS LOADED		5680-01	POAMP
HSC0-G	A01	1	24	00.00				5630-01	RCDHC
HS00-L	A01	1	22	00.00	42	HD 0 SELECTED/ENABLED		5630-01	RCDHC
HS00-L	A07		74	00.00			H4P1-16 MX-19	5720-01	SEPDA
HS01-L	A07		77	00.00			H4P1-19 MX-17	5720-01	SEPDA
HS01-L	A01	1	21	00.00	42	HD 1 SELECTED/ENABLED		5630-01	RCDHC
HS02-G	A01	1	26	00.00				5630-01	RCDHC

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
HS02-L	A01	1	23	00.00	42	HD 2 SELECTED/ENABLED		5630-01	RCDHC
HS02-L	A07		78	00.00			H4P1-20 MX-X	5720-01	SEPDA
HS03-L	A07		83	00.00			H4P1-25 MX-21	5720-01	SEPDA
HS03-L	A01	1	25	00.00	42	HD 3 SELECTED/ENABLED		5630-01	RCDHC
HS04-L	A01	1	28	00.00				5630-01	RCDHC
HS04-L	A01	1	27	00.00	42	HD 4 SELECTED/ENABLED		5630-01	RCDHC
HS04-L	A07		84	00.00			H4P1-26 MX-20	5720-01	SEPDA
INDB-L	A05	2	10	1.00		INHIBIT BRAKE		5680-01	POAMP
INDB-L	A04	2	10	00.00	1458	INHIBIT BRAKE		5610-01	SRAMP
INHB-L	A03	4	74	8.50	08	INHIBIT		5510-01	SRCON
INLD-H	A03	2	58	1.00				5510-01	SRCON
INLD-H	A02	2	18	00.00	20	INITIAL LOAD		5640-01	PCISX
INLD-H	A08	3	45	1.00				5570-01	DLOCP
LCKD-H	A03	1	94	00.00	74	LOCK ON DELAY 250 US		5510-01	SRCON
LCKD-H	A04	1	27	1.00				5610-01	SRAMP
LCKS-H	A04	1	31	1.00				5610-01	SRAMP
LCKS-H	A03	1	92	2.00				5510-01	SRCON
LCKS-H	A03	3	6	3.00	10			5510-01	SRCON
LVEL-L	A03	3	35	00.00	00	LAUNCH VELOCITY		5510-01	SRCON
LVEL-L	A04	1	87	1.00				5610-01	SRAMP
MAG1-L	A05	3	31	1.00				5680-01	POAMP
MAG1-L	A03	4	49	3.00				5510-01	SRCON
MAG1-L	A01	4	7	00.00	147	DIFFERENCE > 1 TRACK		5630-01	RCDHC
MAG2-L	A01	4	11	00.00	147	DIFFERENCE > 2 TRACKS		5630-01	RCDHC
MAG2-L	A03	4	45	3.00				5510-01	SRCON
MAG2-L	A05	3	35	1.00				5680-01	POAMP
MAG4-L	A05	3	33	1.00				5680-01	POAMP
MAG4-L	A03	4	52	3.00				5510-01	SRCON
MAG4-L	A01	4	14	00.00	147	DIFFERENCE > 8 TRACKS		5630-01	RCDHC
MAG8-L	A01	4	8	00.00	147	DIFFERENCE> 128 TRACKS		5630-01	RCDHC
MAG8-L	A03	4	47	3.00				5510-01	SRCON
MAG8-L	A05	3	34	1.00				5680-01	POAMP
MFMD-N	A07	1	75	00.00	0102	MFM WT DATA	H4P1-17 MX-D	5720-01	SEPDA

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
MFMD-P	A07	1	76	00.00	0102	MFM WT DATA H4P1-18 MX-E		5720-01	SEPDA
MIDA-H	A08	2	76	00.00	04	MODULE ID PLUG INSERTED		5570-01	DLOCP
MIDA-H	A03	4	75	2.00				5510-01	SRCON
MIDA-H	A02	1	20	2.00				5640-01	PCISX
MOTV-A	A04		7	00.00		MOTOR VOLTAGE	H7P1-7	5610-01	SRAMP
MULY-L	A08	3	51	2.25				5570-01	DLOCP
MULY-L	A07		92	00.00		MULT HD SEL H4P1-34 MX-Y		5720-01	SEPDA
MXAF-L	A03	4	86	1.00				5510-01	SRCON
MXAF-L	A01	3	45	00.00	00	MAXIMUM ADDRESS FAULT		5630-01	RCDHC
OFFW-L	A04	1	79	1.00				5610-01	SRAMP
OFFW-L	A03	2	15	1.00	10	OFFSET FORWARD LATCH		5510-01	SRCON
OFRV-L	A03	2	16	1.00	10	OFFSET REVERSE LATCH		5510-01	SRCON
OFRV-L	A04	1	53	1.00				5610-01	SRAMP
OFSL-H	A03	2	17	4.00	00	OFFSET SELECT		5510-01	SRCON
OFSL-H	A08	3	48	1.00				5570-01	DLOCP
OFWD-L	A03	2	10	2.00				5510-01	SRCON
OFWD-L	A01	3	43	00.00	00	FORWARD OFFSET		5630-01	RCDHC
ONLN-L	A02	4	35	1.00				5640-01	PCISX
ONLN-L	A03	4	64	00.00	04	ON LINE		5510-01	SRCON
ONLN-L	A08	2	53	1.00				5570-01	DLOCP
OPEN-H	A01	3	12	00.00		DM940-OPEN, DM980-GROUND		5630-01	RCDHC
OREV-L	A01	3	44	00.00	00	REVERSE OFFSET		5630-01	RCDHC
OREV-L	A03	2	11	2.00				5510-01	SRCON
OTKF-L	A04	1	98	1.00				5610-01	SRAMP
OTKF-L	A05	3	7	00.00	00	ONE TRACK FORWARD SEEK		5680-01	POAMP
OTKR-L	A05	3	6	00.00	00	ONE TRACK REVERSE SEEEK		5680-01	POAMP
OTKR-L	A04	1	83	1.00				5610-01	SRAMP
PAMP-A	A04	1	85	00.00				5610-01	SRAMP
PAMP-A	A05	3	75	00.00	301			5680-01	POAMP
PFAL-H	A04	2	19	1.00	04	POWER FAILURE		5610-01	SRAMP
PFAL-H	A03	4	51	1.00				5510-01	SRCON

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC		DEST	DWG	BOARD
PLER-H	A05	1	41	00.00	711		SERVO PHASE ERROR		5680-01	POAMP
PLER-H	A08	3	42	1.00					5570-01	DLOCP
PL04-H	A05	3	36	00.00	5110				5680-01	POAMP
PL04-L	A05	3	37	00.00	5110				5680-01	POAMP
PL09-H	A05	3	39	00.00	5110	XWP	9.67MHZ		5680-01	POAMP
PL09-H	A07	2	96	00.00		XWP	9.67MHZ		5720-01	SEPDA
PL09-L	A07	2	95	00.00		XWP	9.67MHZ		5720-01	SEPDA
PL09-L	A05	3	38	00.00	5110	XWP	9.67MHZ		5680-01	POAMP
PMRD-L	A05	3	9	00.00	3300		RUN WINDING RELAY	H6P1-25	5680-01	POAMP
PMRN-L	A05	3	22	3.00					5680-01	POAMP
PMRN-L	A02	1	25	00.00	04		PACK MOTOR		5640-01	PCISX
PMSR-L	A05	3	5	00.00	3300		START WINDING RELAY	H6P1-29	5680-01	POAMP
PWRC-L	A08	3	57	2.25					5570-01	DLOCP
PWRC-L	A03	4	71	2.00	00		POWER CONFLICT		5510-01	SRCON
PWRO-L	A03	2	53	1.25					5510-01	SRCON
PWRO-L	A02	1	38	00.00	04		POWER UP RESET		5640-01	PCISX
PWRO-L	A01	1	19	1.00					5630-01	RCDHC
PWRO-L	A08	3	58	3.00					5570-01	DLOCP
P25V-H	A07		86	00.00			+25V H4P1-28 MX-9		5720-01	SEPDA
P25V-H	A04		36	00.00			+25V		5610-01	SRAMP
P36V-H	A04		18	00.00			+36V H7P1-18		5610-01	SRAMP
P36V-H	A05		14	00.00					5680-01	POAMP
RAMK-N	A02	4	97	00.00	5110		-ADDRESS MARK J1/2-42	H1P2-39	5640-01	PCISX
RAMK-P	A02	4	98	00.00	5110		+ADDRESS MARK J1/2-45	H1P2-40	5640-01	PCISX
RAMP-A	A04		5	00.00			REVERSE AMPLIFIER	H7P1-5	5610-01	SRAMP
RBSO-N	A01	2	95	00.00			-BUS OUT 0 J1/2-23	H1P1-37	5630-01	RCDHC
RBSO-P	A01	2	96	00.00			+BUS OUT 0 J1/2-26	H1P1-38	5630-01	RCDHC
RBS1-N	A01	2	97	00.00			-BUS OUT 1 J1/2-24	H1P1-39	5630-01	RCDHC
RBS1-P	A01	2	98	00.00			+BUS OUT 1 J1/2-27	H1P1-40	5630-01	RCDHC

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC			DEST	DWG	BOARD
RBS2-N	A01	2	91	00.00			-BUS OUT 2	J1/2-28	H1P1-33	5630-01	RCDHC
RBS2-P	A01	2	92	00.00			+BUS OUT 2	J1/2-31	H1P1-34	5630-01	RCDHC
RBS3-N	A01	2	93	00.00			-BUS OUT 3	J1/2-29	H1P1-35	5630-01	RCDHC
RBS3-P	A01	2	94	00.00			+BUS OUT 3	J1/2-32	H1P1-36	5630-01	RCDHC
RBS4-N	A01	2	87	00.00			-BUS OUT 4	J1/2-30	H1P1-29	5630-01	RCDHC
RBS4-P	A01	2	88	00.00			+BUS OUT 4	J1/2-33	H1P1-30	5630-01	RCDHC
RBS5-N	A01	2	89	00.00			-BUS OUT 5	J1/2-34	H1P1-31	5630-01	RCDHC
RBS5-P	A01	2	90	00.00			+BUS OUT 5	J1/2-37	H1P1-32	5630-01	RCDHC
RBS6-N	A01	2	83	00.00			-BUS OUT 6	J1/2-35	H1P1-25	5630-01	RCDHC
RBS6-P	A01	2	84	00.00			+BUS OUT 6	J1/2-38	H1P1-26	5630-01	RCDHC
RBS7-N	A01	2	85	00.00			-BUS OUT 7	J1/2-36	H1P1-27	5630-01	RCDHC
RBS7-P	A01	2	86	00.00			+BUS OUT 7	J1/2-39	H1P1-28	5630-01	RCDHC
RBS8-N	A01	2	77	00.00			-BUS OUT 8	J1/2-40	H1P1-19	5630-01	RCDHC
RBS8-P	A01	2	78	00.00			+BUS OUT 8	J1/2-43	H1P1-20	5630-01	RCDHC
RBS9-N	A01	2	79	00.00			-BUS OUT 9	J1/2-41	H1P1-21	5630-01	RCDHC
RBS9-P	A01	2	80	00.00			+BUS OUT 9	J1/2-44	H1P1-22	5630-01	RCDHC
RCAR-H	A01	1	10	1.00						5630-01	RCDHC
RCAR-L	A03	2	41	00.00	00		RESET CAR			5510-01	SRCON
RCLK-C	A02	5	44	00.00		XWP				5640-01	PCISX
RCLK-D	A07	2	42	00.00	GND	XWP				5720-01	SEPDA
RCLK-L	A07	2	41	00.00	0125	XWP	READ CLK			5720-01	SEPDA
RCLK-L	A08	4	47	1.00						5570-01	DLOCP
RCLK-L	A02	5	46	1.00		XWP	READ CLK			5640-01	PCISX
RCLK-N	A08	4	21	00.00	5110		READ CLOCK		H2P1-13	5570-01	DLOCP
RCLK-P	A08	4	23	00.00	5110		READ CLOCK		H2P1-11	5570-01	DLOCP
RCLK-S	A08	4	24	00.00	GND		READ CLOCK SHIELD		H2P1-12	5570-01	DLOCP

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
RDAT-G	A07	2	58	00.00	GND	TXP		5720-01	SEPDA
RDAT-G	A02	5	48	00.00		XWP		5640-01	PCISX
RDAT-L	A02	5	50	1.00		XWP READ DATA		5640-01	PCISX
RDAT-L	A07	2	57	00.00	0125	XWP READ DATA		5720-01	SEPDA
RDAT-L	A08	4	50	1.00				5570-01	DLOCP
RDAT-N	A08	4	26	00.00	5110	READ DATA	H2P1-10	5570-01	DLOCP
RDAT-P	A08	4	25	00.00	5110	READ DATA	H2P1-9	5570-01	DLOCP
RDAT-S	A08	4	23	00.00	GND	READ DATA SHIELD	H2P1-8	5570-01	DLOCP
RDEV-N	A01	2	69	00.00		-DEVICE ENABLE J1/2-16	H1P1-11	5630-01	RCDHC
RDEV-P	A01	2	70	00.00		+DEVICE ENABLE J1/2-20	H1P1-12	5630-01	RCDHC
RDYD-H	A03	3	19	1.00				5510-01	SRCON
RDYD-H	A03	1	96	00.00	74	READY DELAYED 1.5 MS		5510-01	SRCON
READ-G	A08	1	10	00.00		READ FROM HEAD BOARD		5570-01	DLOCP
READ-G	A07		62	00.00		READ GROUND H4P1-4 MX-7		5720-01	SEPDA
READ-N	A07		59	00.00		XWP READ DATA	H4P1-1	5720-01	SEPDA
READ-N	A08	1	8	00.00		XWP READ DATA		5570-01	DLOCP
READ-P	A03	1	7	00.00		XWP READ DATA		5570-01	DLOCP
READ-P	A07		60	00.00		XWP READ DATA	H4P1-2	5720-01	SEPDA
REDY-L	A05	3	24	1.00				5680-01	POAMP
REDY-L	A03	3	61	00.00				5510-01	SRCON
REDY-L	A01	1	9	1.00				5630-01	RCDHC
REGT-H	A07	2	64	00.00	0124			5720-01	SEPDA
REGT-H	A08	1	6	1.00				5570-01	DLOCP
RETH-L	A02	1	17	00.00	00	RETRACT HEADS		5640-01	PCISX
RETH-L	A03	2	54	2.25				5510-01	SRCON
RETV-L	A04	1	59	1.00				5610-01	SRAMP
RETV-L	A03	3	25	00.00	00	RETRACT VELOCITY		5510-01	SRCON
RFT1-N	A01	2	75	00.00		-TAG 1-SET CYL J1/2-46	H1P1-17	5630-01	RCDHC
RFT1-P	A01	2	76	00.00		+TAG 1-SET CYL J1/2-49	H1P1-18	5630-01	RCDHC
RFT2-N	A01	2	73	00.00		-TAG 2-SET HAR J1/2-48	H1P1-15	5630-01	RCDHC

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC		DEST	DWG	BOARD
RFT2-P	A01	2	74	00.00			+TAG 2-SET HAR J1/2-51	H1P1-16	5630-01	RCDHC
RFT3-N	A01	2	59	00.00			-TAG 3-CONTROL J1/2-52	H1P1-1	5630-01	RCDHC
RFT3-P	A01	2	60	00.00			+TAG 3-CONTROL J1/2-55	H1P1-2	5630-01	RCDHC
RGAT-L	A01	1	15	00.00	10		READ GATE		5630-01	RCDHC
RGAT-L	A07	2	98	3.00			READ GATE H4P1-4 MX-S		5720-01	SEPDA
RIND-N	A02	4	83	00.00	5110		-INDEX J1/2-10	H1P2-25	5640-01	PCISX
RIND-P	A02	4	84	00.00	5110		+INDEX J1/2-13	H1P2-26	5640-01	PCISX
RMFM-N	A07	2	94	1.00		XWP	MFM READ DATA		5720-01	SEPDA
RMFM-N	A08	1	36	00.00	0107	XWP	MFM READ DATA		5570-01	DLOCP
RMFM-P	A08	1	35	00.00	0107	XWP	MFM READ DATA		5570-01	DLOCP
RMFM-P	A07	2	93	1.00		XWP	MFM READ DATA		5720-01	SEPDA
RONL-N	A02	4	93	00.00	5110		-ON LINE J1/2-17	H1P2-35	5640-01	PCISX
RONL-P	A02	4	94	00.00	5110		+ON LINE J1/2-21	H1P2-36	5640-01	PCISX
RRDY-N	A02	4	91	00.00	5110		-READY J1/2-15	H1P2-33	5640-01	PCISX
RRDY-P	A02	4	92	00.00	5110		+READY J1/2-18	H1P2-34	5640-01	PCISX
RSC0-N	A02	4	65	00.00	5110		-SECTOR COUNT 0 J1/2-54	H1P2-7	5640-01	PCISX
RSC0-P	A02	4	66	00.00	5110		+SECTOR COUNT 0 J1/2-57	H1P2-8	5640-01	PCISX
RSC1-N	A02	4	67	00.00	5110		-SECTOR COUNT 1 J1/2-58	H1P2-9	5640-01	PCISX
RSC1-P	A02	4	68	00.00	5110		+SECTOR COUNT 1 J1/2-62	H1P2-10	5640-01	PCISX
RSC2-N	A02	4	77	00.00	5110		-SECTOR COUNT 2 J1/2-59	H1P2-19	5640-01	PCISX
RSC2-P	A02	4	78	00.00	5110		+SECTOR COUNT 2 J1/2-63	H1P2-20	5640-01	PCISX
RSC3-N	A02	4	79	00.00	5110		-SECTOR COUNT 3 J1/2-60	H1P2-21	5640-01	PCISX
RSC3-P	A02	4	80	00.00	5110		+SECTOR COUNT 3 J1/2-64	H1P2-22	5640-01	PCISX
RSC4-N	A02	4	69	00.00	5110		-SECTOR COUNT 4 J1/2-65	H1P2-11	5640-01	PCISX
RSC4-P	A02	4	70	00.00	5110		+SECTOR COUNT 4 J1/2-70	H1P2-12	5640-01	PCISX
RSC5-N	A02	4	71	00.00	5110		-SECTOR COUNT 5 J1/2-66	H1P2-13	5640-01	PCISX

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
RSC5-P	A02	4	72	00.00	5110	+SECTOR COUNT 5 J1/2-71	H1P2-14	5640-01	PCISX
RSC6-N	A02	4	73	00.00	5110	-SECTOR COUNT 6 J1/2-67	H1P2-15	5640-01	PCISX
RSC6-P	A02	4	74	00.00	5110	+SECTOR COUNT 6 J1/2-72	H1P2-16	5640-01	PCISX
RSEL-L	A01	3	42	1.00	00	READ SELECT		5630-01	RCDHC
RSEL-L	A08	3	31	1.00				5570-01	DLOCP
RSEN-N	A01	2	71	00.00		-SELECT ENABLE J1/2-22	H1P1-13	5630-01	RCDHC
RSEN-P	A01	2	72	00.00		+SELECT ENABLE J1/2-25	H1P1-14	5630-01	RCDHC
RSE0-N	A01	2	63	00.00		-DEVICE SELECT 0 J1/2-1	H1P1-5	5630-01	RCDHC
RSE0-P	A01	2	64	00.00		+DEVICE SELECT 0 J1/2-4	H1P1-6	5630-01	RCDHC
RSE1-N	A01	2	61	00.00		-DEVICE SELECT 1 J1/2-2	H1P1-3	5630-01	RCDHC
RSE1-P	A01	2	62	00.00		+DEVICE SELECT 1 J1/2-5	H1P1-4	5630-01	RCDHC
RSE2-N	A01	2	67	00.00		-DEVICE SELECT 2 J1/2-3	H1P1-31	5630-01	RCDHC
RSE2-P	A01	2	68	00.00		+DEVICE SELECT 2 J1/2-7	H1P1-10	5630-01	RCDHC
RSE3-N	A01	2	65	00.00		-DEVICE SELECT 3 J1/2-8	H1P1-7	5630-01	RCDHC
RSE3-P	A01	2	66	00.00		+DEVICE SELECT 3 J1/2-12	H1P1-8	5630-01	RCDHC
RSKI-N	A02	4	89	00.00	5110	-SEEK ERROR J1/2-75	H1P2-31	5640-01	PCISX
RSKI-P	A02	4	90	00.00	5110	+SEEK ERROR J1/2-78	H1P2-32	5640-01	PCISX
RSMK-N	A02	4	85	00.00	5110	-SECTOR MARK J1/2-74	H1P2-27	5640-01	PCISX
RSMK-P	A02	4	86	00.00	5110	+SECTOR MARK J1/2-77	H1P2-28	5640-01	PCISX
RUNS-N	A02	4	87	00.00	5110	-UNSAFE J1/2-11	H1P2-29	5640-01	PCISX
RUNS-P	A02	4	88	00.00	5110	+UNSAFE J1/2-14	H1P2-30	5640-01	PCISX
RVER-H	A03	4	50	2.00				5510-01	SRCON
RVER-H	A01	4	5	00.00	74	REVERSE SEEK		5630-01	RCDHC
RVER-H	A05	3	26	2.00				5680-01	POAMP
RWPT-N	A02	4	95	00.00	5110	-WRITE PROTECT J1/2-53	H1P2-37	5640-01	PCISX
RWPT-P	A02	4	96	00.00	5110	+WRITE PROTECT J1/2-56	H1P2-38	5640-01	PCISX

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
RZRO-L	A03	2	37	1.00				5510-01	SRCON
RZRO-L	A01	3	50	00.00	00	REZERO		5630-01	RCDHC
RZVL-L	A03	3	18	00.00	10	REZERO VELOCITY		5510-01	SRCON
RZVL-L	A04	1	51	1.00				5610-01	SRAMP
R001-L	A04	1	25	1.00				5610-01	SRAMP
R001-L	A03	4	27	00.00	42	REVERSE 1		5510-01	SRCON
R002-L	A03	4	33	00.00	42	REVERSE 2		5510-01	SRCON
R002-L	A04	1	75	1.00				5610-01	SRAMP
R004-L	A04	1	77	1.00				5610-01	SRAMP
R004-L	A03	4	34	00.00	42	REVERSE 4		5510-01	SRCON
R008-L	A03	4	31	00.00	42	REVERSE 8		5510-01	SRCON
R008-L	A04	1	69	1.00				5610-01	SRAMP
R016-L	A04	1	71	1.00				5610-01	SRAMP
R016-L	A03	4	32	00.00	42	REVERSE 16		5510-01	SRCON
R032-L	A03	4	28	00.00	42	REVERSE 32		5510-01	SRCON
R032-L	A04	1	65	1.00				5610-01	SRAMP
R064-L	A04	1	67	1.00				5610-01	SRAMP
R064-L	A03	4	24	00.00	42	REVERSE 64		5510-01	SRCON
R128-L	A03	4	23	00.00	42	REVERSE 128		5510-01	SRCON
R128-L	A04	1	57	1.00				5610-01	SRAMP
R256-L	A04		73	1.00				5610-01	SRAMP
R256-L	A03	4	22	00.00	42	REVERSE 256		5510-01	SRCON
SAMP-A	A05	2	95	00.00		SERVO AMPLIFIER	H5P1-3	5680-01	POAMP
SAMP-B	A05	2	89	00.00		SERVO AMPLIFIER	H5P1-9	5680-01	POAMP
SCAR-L	A03	3	85	1.00				5510-01	SRCON
SCAR-L	A05	3	17	1.00				5680-01	POAMP
SCAR-L	A01	1	13	6.00	10	SET CAR		5630-01	RCDHC
SC00-L	A02	3	15	1.00		SECTOR PLUG BIT 0	SPXX-19	5640-01	PCISX
SC01-L	A02	3	13	1.00		SECTOR PLUG BIT 1	SPXX-21	5640-01	PCISX
SC02-L	A02	3	11	1.00		SECTOR PLUG BIT 2	SPXX-23	5640-01	PCISX
SC03-L	A02	3	9	1.00		SECTOR PLUG BIT 3	SPXX-25	5640-01	PCISX

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
SC04-L	A02	3	5	1.00		SECTOR PLUG BIT 4	SPXX-29	5640-01	PCISX
SC05-L	A02	3	7	1.00		SECTOR PLUG BIT 5	SPXX-27	5640-01	PCISX
SC06-L	A02	3	16	1.00		SECTOR PLUG BIT 6	SPXX-20	5640-01	PCISX
SC07-L	A02	3	14	1.00		SECTOR PLUG BIT 7	SPXX-22	5640-01	PCISX
SC08-L	A02	3	6	1.00		SECTOR PLUG BIT 8	SPXX-30	5640-01	PCISX
SC09-L	A02	3	8	1.00		SECTOR PLUG BIT 9	SPXX-28	5640-01	PCISX
SC10-L	A02	3	10	1.00		SECTOR PLUG BIT 10	SPXX-26	5640-01	PCISX
SC11-L	A02	3	12	1.00		SECTOR PLUG BIT 11	SPXX-24	5640-01	PCISX
SDIS-H	A04	3	21	1.00				5610-01	SRAMP
SDIS-H	A03	3	57	00.00	04	SERVO DISABLE		5510-01	SRCON
SEKD-H	A03	1	91	00.00	74	SEEK DELAY 1.00 MS		5510-01	SRCON
SEKD-H	A03	3	9	3.00				5510-01	SRCON
SKIN-L	A03	4	84	3.00	10	SEEK INCOMPLETE LATCH		5510-01	SRCON
SKIN-L	A02	4	43	1.00				5640-01	PCISX
SKIN-L	A01	1	34	1.00				5630-01	RCDHC
SKIN-L	A08	3	44	1.00				5570-01	DLOCP
SKLR-L	A03	3	79	2.00	74	SEEK LATCH		5510-01	SRCON
SKLS-H	A03	1	95	2.00				5510-01	SRCON
SKLS-H	A03	3	78	3.00	74	SEEK LATCH		5510-01	SRCON
SKLS-H	A03	1	83	1.00				5510-01	SRCON
SLFD-L	A03	3	21	00.00	00	SLOW FORWARD VELOCITY		5510-01	SRCON
SLFD-L	A04	1	88	1.00				5610-01	SRAMP
SLTP-H	A02	2	31	1.00				5640-01	PCISX
SLTP-H	A05	2	40	00.00	311	SLOT PULSE		5680-01	POAMP
SOSC-L	A05	1	53	2.00	74	SERVO OSCILLATOR		5680-01	POAMP
SOSC-L	A05	1	48	2.00				5680-01	POAMP
SPED-G	A05		73	00.00		SLOT PULSE SHIELD	H5P1-25	5680-01	POAMP
SPED-H	A05	2	69	1.00		SLOT PULSE	H5P1-29	5680-01	POAMP
SPED-L	A05	2	71	1.00		SLOT PULSE	H5P1-27	5680-01	POAMP

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC		DEST	DWG	BOARD
SPLR-H	A05	1	46	1.00	03		SERVO PULSE		5680-01	POAMP
SPUL-H	A05	1	45	00.00	05		SERVO PULSE		5680-01	POAMP
SPUL-H	A02	3	57	1.00					5640-01	PCISX
SSSW-H	A02	1	28	1.00					5640-01	PCISX
SSSW-H	A08	2	69	00.00	04		START SWITCH		5570-01	DLOCP
STRB-L	A05	1	42	1.00					5680-01	POAMP
SW01-H	A08	2	62	1.00			HEADS RETRACTED NC	A042204.0 H3P1-4	5570-01	DLOCP
SW01-H	A04		22	00.00					5610-01	SRAMP
SW01-L	A08	2	61	1.00			HEADS RETRACTED NO	H3P1-3	5570-01	DLOCP
SW02-H	A08	2	63	1.00			BRUSHES EXTENDED NO	H3P1-6	5570-01	DLOCP
SW02-L	A08	2	64	1.00			BRUSHES EXTENDED NC	H3P1-5	5570-01	DLOCP
S403-H	A05	1	49	00.00	05		SERVO CLOCK		5680-01	POAMP
S403-H	A02	3	27	2.00					5640-01	PCISX
S403-L	A05	1	47	2.00	04		SERVO CLOCK		5680-01	POAMP
S806-L	A05	1	51	1.00	04		SERVO 2F CLOCK		5680-01	POAMP
S806-L	A02	3	22	1.00					5640-01	PCISX
S967-G	A02	5	40	00.00		XWP			5640-01	PCISX
S967-G	A05	3	16	00.00	GND	XWP			5680-01	POAMP
S967-L	A02	5	42	1.00		XWP	SERVO CLOCK 9.67MHZ		5640-01	PCISX
S967-L	A05	3	28	00.00	04	TXP	SERVO CLOCK 9.67MHZ		5680-01	POAMP
S967-L	A08	4	27	1.00		TXP			5570-01	DLOCP
S967-N	A08	4	19	00.00	5110		SERVO CLOCK	H2P1-15	5570-01	DLOCP
S967-P	A08	4	20	00.00	5110		SERVO CLOCK	H2P1-16	5570-01	DLOCP
TACH-A	A04		39	00.00			TACH	H7P1-39	5610-01	SRAMP
TCOM-A	A04		40	00.00			COMPENSATED TACH	H7P1-40	5610-01	SRAMP
TD6S-H	A03	2	20	2.00					5510-01	SRCON
TD6S-H	A03	1	89	00.00	74		HD LD,REZ,OFF DELAY 5.75 MS		5510-01	SRCON
TGD1-G	A04		34	00.00			TACH GROUND	H7P1-34	5610-01	SRAMP
TGD2-G	A04		32	00.00			TACH GROUND	H7P1-32	5610-01	SRAMP

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC		DEST	DWG	BOARD
TGD3-G	A04		38	00.00			TACH GROUND	H7P1-38	5610-01	SRAMP
TSEN-L	A02	5	36	1.00					5640-01	PCISX
TSEN-L	A01	2	20	1.00	TOC		TESTER SELECT ENABLE		5630-01	RCDHC
TSEN-L	A08	2	72	1.00					5570-01	DLOCP
UNSF-L	A08	3	41	2.00	20				5570-01	DLOCP
UNSF-L	A07		73	00.00			H4P1-15 MX-18		5720-01	SEPDA
UNSF-L	A01	1	36	3.00					5630-01	RCDHC
UNSF-L	A02	4	45	1.00					5640-01	PCISX
UNSF-L	A03	4	5	1.00					5510-01	SRCON
UPSO-L	A02	2	53	00.00	00		UP TO SPEED		5640-01	PCISX
UPSO-L	A05	3	21	1.00					5680-01	POAMP
URST-L	A01	3	49	00.00	00		UNSAFE RESET		5630-01	RCDHC
URST-L	A03	4	77	1.00					5510-01	SRCON
URST-L	A08	3	70	1.00					5570-01	DLOCP
USEL-L	A08	4	49	1.00					5570-01	DLOCP
USEL-L	A02	4	49	1.00					5640-01	PCISX
USEL-L	A01	1	18	1.00	20		SELECTED		5630-01	RCDHC
USEL-N	A08	4	13	00.00	5110		SELECTED	H2P1-21	5570-01	DLOCP
USEL-P	A08	4	15	00.00	5110		SELECTED	H2P1-19	5570-01	DLOCP
WACS-L	A08	3	43	2.00					5570-01	DLOCP
WACS-L	A07		67	00.00			WRT AC XTSNS H4P1-9 MX-15		5720-01	SEPDA
WCLK-G	A08		65	00.00		TXP			5570-01	DLOCP
WCLK-G	A02	5	52	00.00	GND	XWP			5640-01	PCISX
WCLK-L	A02	5	54	00.00	5108	XWP	WRT CLK FROM TESTER		5640-01	PCISX
WCLK-L	A08	4	52	00.00	5108	XWP	WRT CLK FROM TESTER		5570-01	DLOCP
WCLK-L	A07	2	87	1.00					5720-01	SEPDA
WCLK-N	A08	4	11	00.00			WRITE CLOCK	H2P1-23	5570-01	DLOCP
WCLK-P	A08	4	12	00.00			WRITE CLOCK	H2P1-24	5570-01	DLOCP
WCLK-S	A08	4	18	00.00			WRITE CLOCK SHIELD	H2P1-18	5570-01	DLOCP
WCRT-L	A08	3	46	2.00					5570-01	DLOCP
WCRT-L	A07		66	00.00			WRT CURRENT H4P1-8 MX-13		5720-01	SEPDA
WDAT-G	A07	1	44	00.00		XWP			5720-01	SEPDA
WDAT-G	A02	5	58	00.00	GND	XWP			5640-01	PCISX

SIGNAL	LOC	SHT	PIN	LOAD	TYPE	DESC	DEST	DWG	BOARD
WDAT-L	A02	5	60	00.00	5108	XWP WRT DATA		5640-01	PCISX
WDAT-L	A07	1	43	1.00		XWP WRT DATA		5720-01	SEPDA
WDAT-L	A08	4	54	00.00	5108			5570-01	DLOCP
WDAT-N	A08	4	33	00.00		WRITE DATA	H2P1-1	5570-01	DLOCP
WDAT-P	A08	4	34	00.00		WRITE DATA	H2P1-2	5570-01	DLOCP
WDAT-S	A08	4	17	00.00		WRITE DATA SHIELD	H2P1-17	5570-01	DLOCP
WGAT-L	A07	2	85	1.00		H4P1-27 MX-U		5720-01	SEPDA
WGAT-L	A01	1	16	00.00	10	WRITE GATE		5630-01	RCDHC
WOER-H	A05	3	27	00.00	04	PLO PHASE ERROR		5680-01	POAMP
WOER-H	A08	3	39	1.00				5570-01	DLOCP
WPRT-L	A08	2	67	1.00	04	WRITE PROTECT SWITCH		5570-01	DLOCP
WPRT-L	A02	4	37	1.00				5640-01	PCISX
WRGA-N	A07	2	89	00.00	0116	WRITE GATE H4P1-31 MX-C		5720-01	SEPDA
WRGA-P	A07	2	90	00.00	0116	WRITE GATE H4P1-32 MX-B		5720-01	SEPDA
WSEL-L	A08	3	38	1.00				5570-01	DLOCP
WSEL-L	A01	3	41	1.00	00	WRITE SELECT		5630-01	RCDHC

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