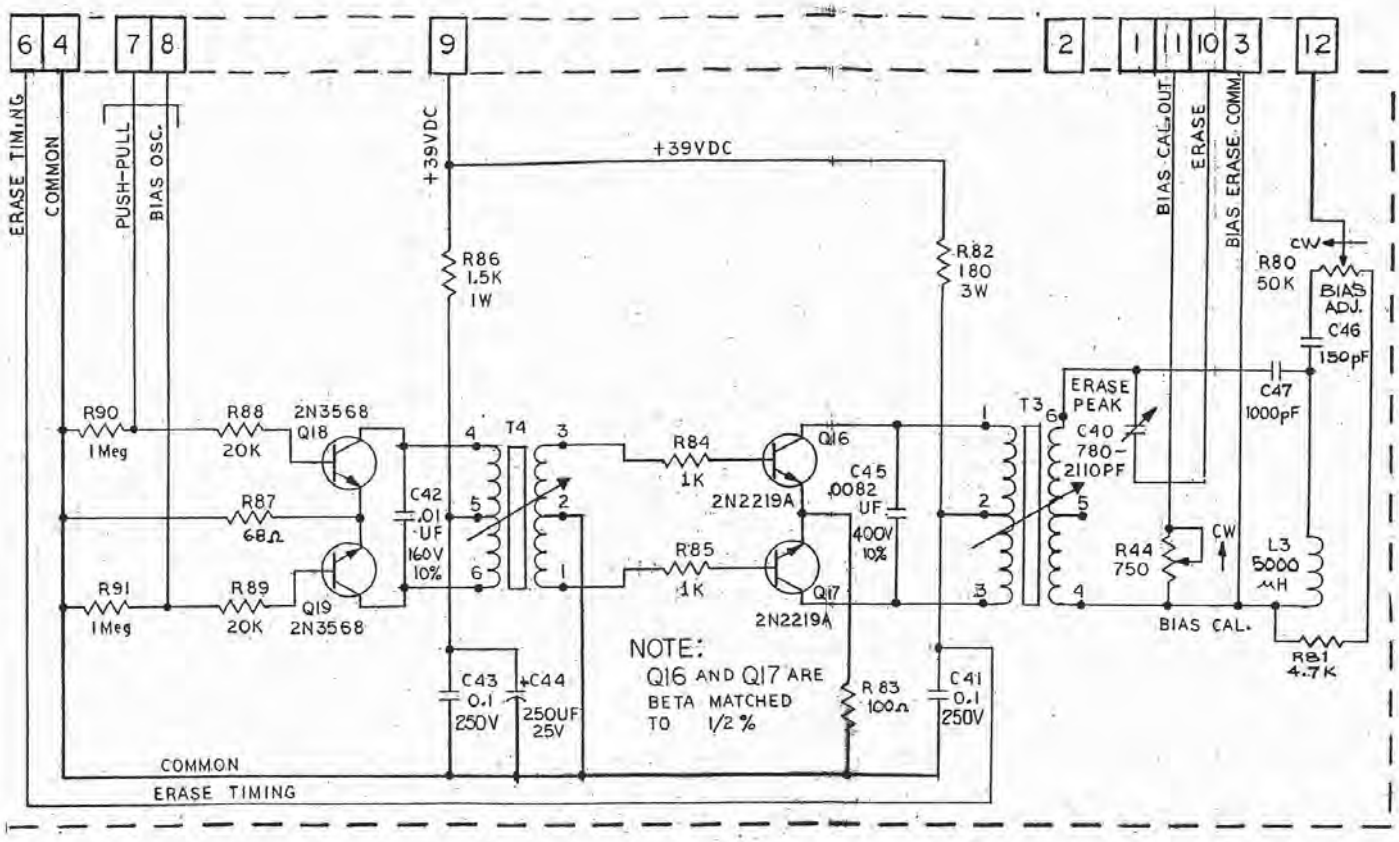


NOTES:

1. ALL RES. ARE ½W., 5%, UNLESS OTHERWISE SPECIFIED.
2. THIS BOARD IS COMPATABLE WITH WOELKE ERASE HEADS AND AMC RECORD HEADS ONLY.

BIAS AMPLIFIER BOARD

Figure 52 JH-16 Pa

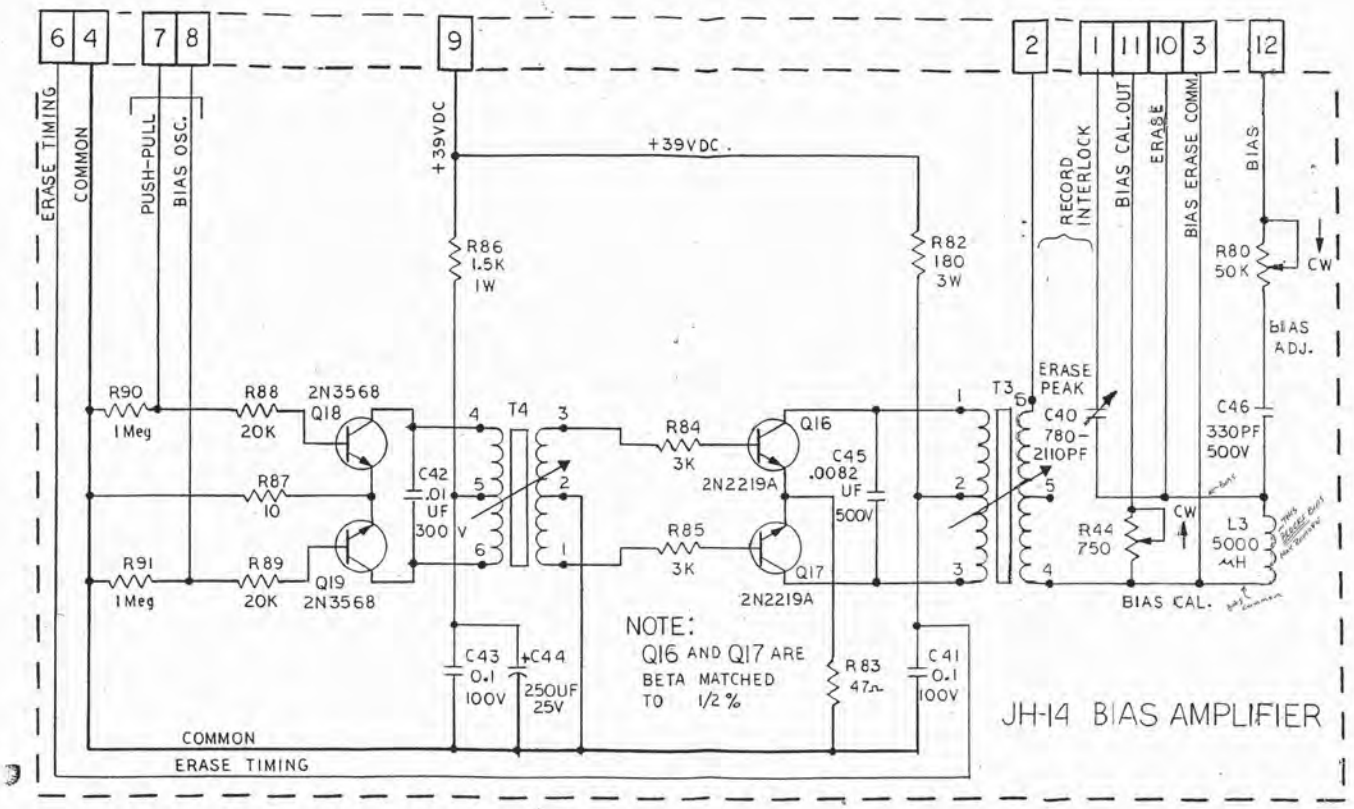
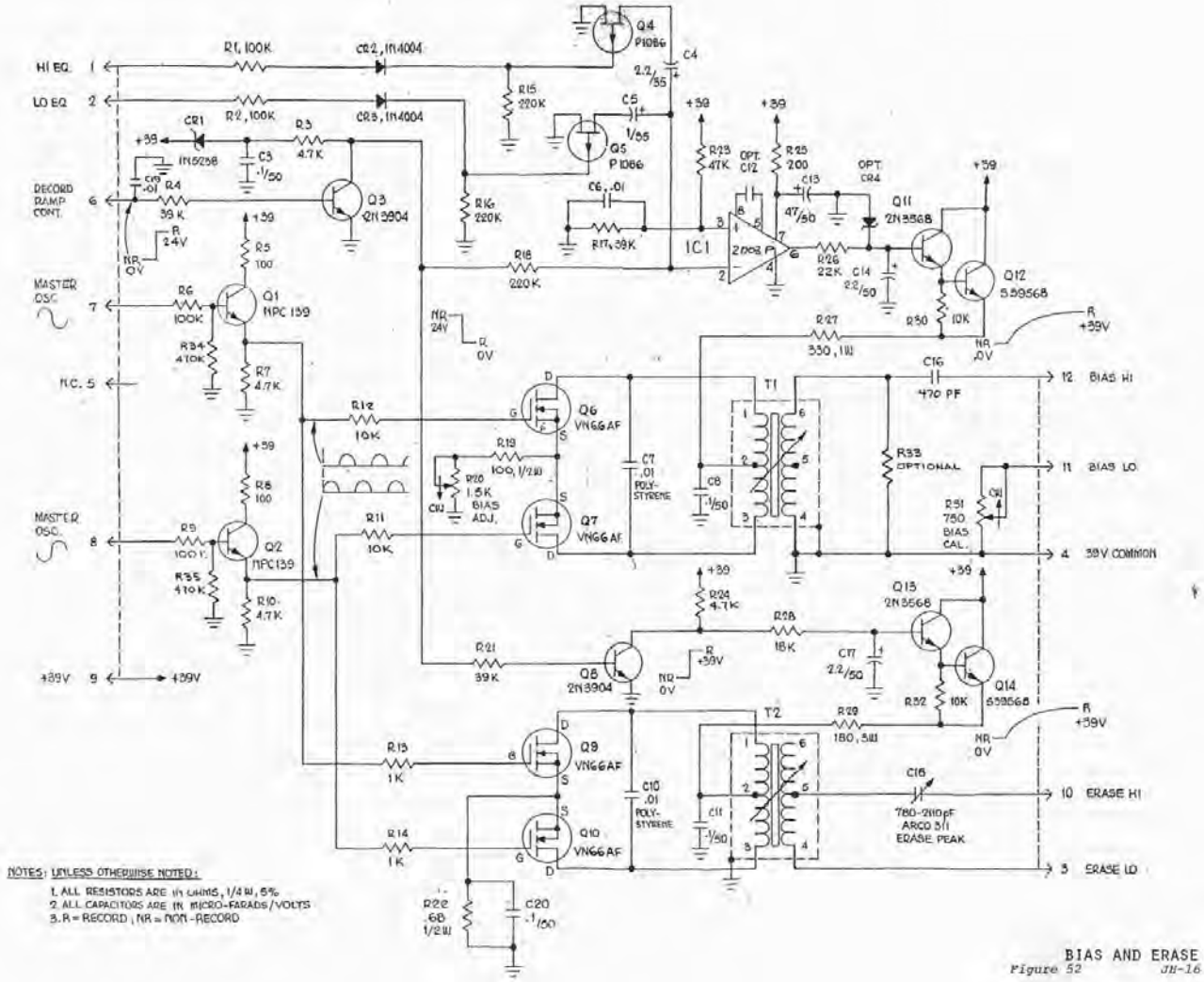


Figure 8-3. JH-14 Bias Amplifier.

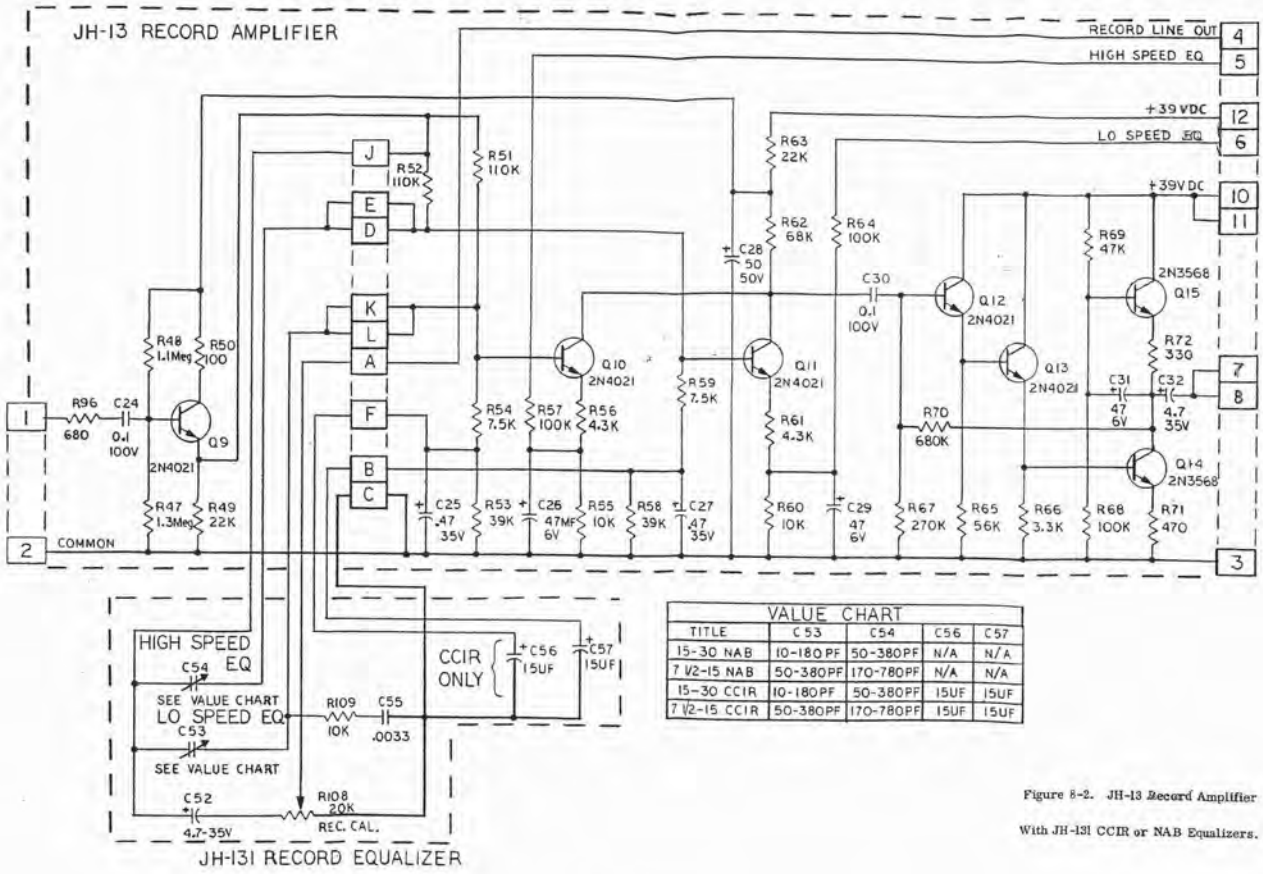


NOTES: UNLESS OTHERWISE NOTED:

1. ALL RESISTORS ARE IN OHMS, 1/4 W, 5%
2. ALL CAPACITORS ARE IN MICRO-FARADS/VOLTS
3. R = RECORD, NR = NON-RECORD

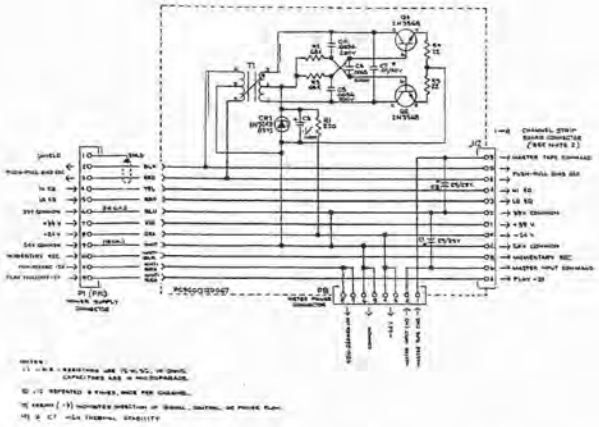
BIAS AND ERASE BOARD 9C139

Figure 52 JH-16 Page 10

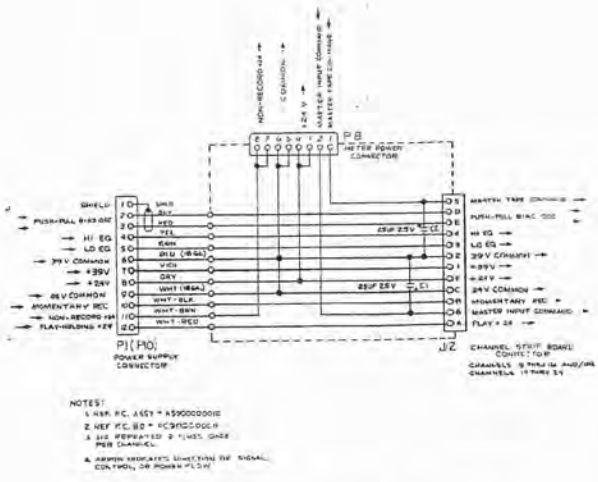


VALUE CHART				
TITLE	C53	C54	C56	C57
15-30 NAB	10-180 PF	50-380PF	N/A	N/A
7 1/2-15 NAB	50-380PF	170-780PF	N/A	N/A
15-30 CCIR	10-180PF	50-380PF	15UF	15UF
7 1/2-15 CCIR	50-380PF	170-780PF	15UF	15UF

Figure 8-2. JH-13 Record Amplifier With JH-131 CCIR or NAB Equalizers.



Buss Board With Oscillator Output Channels 1 Thru 8.



Buss Board Without Oscillator Channels 9 Thru 16 and 17 Thru 24.

Figure 8-6. JH-16 Buss Boards.

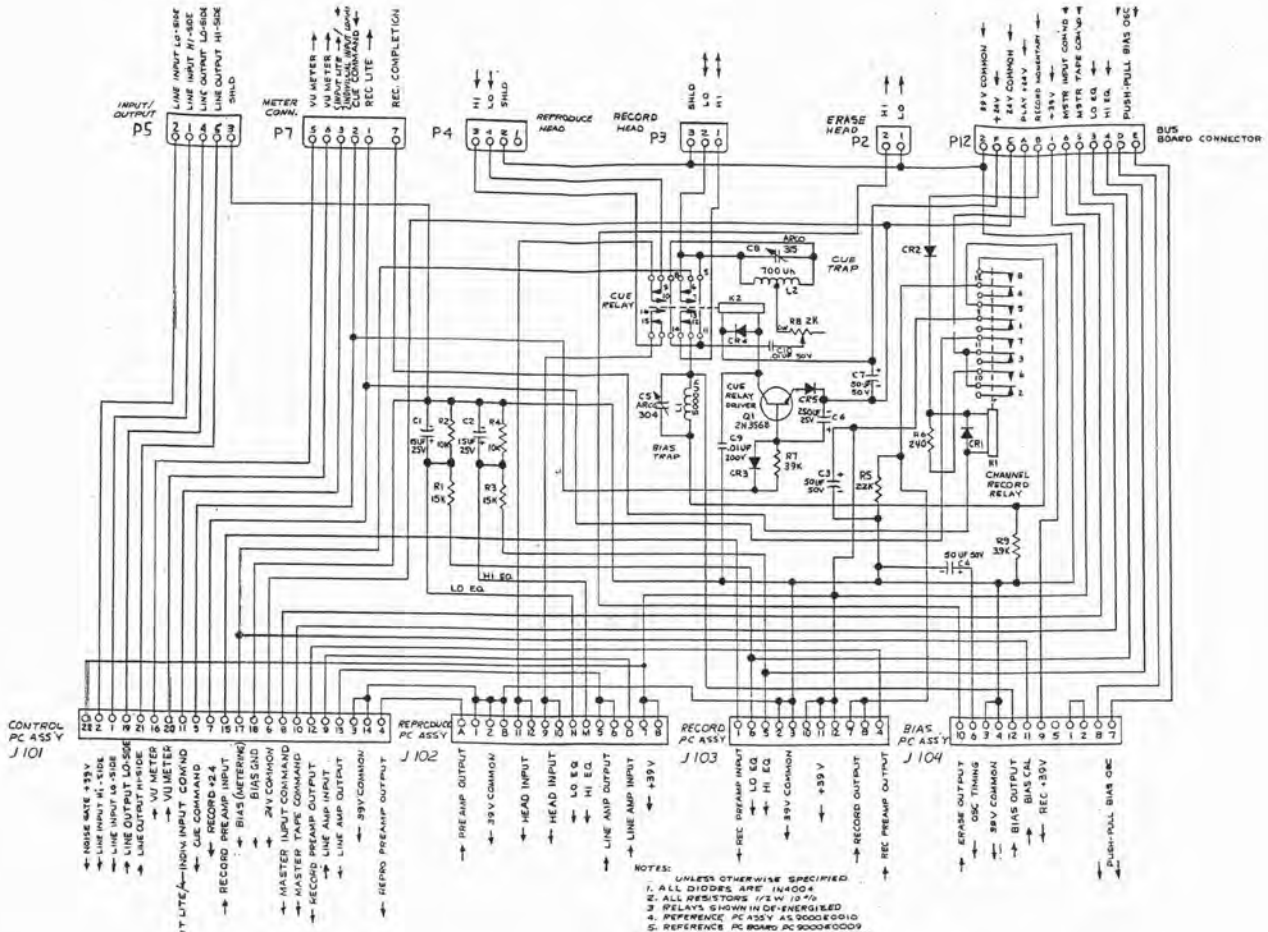
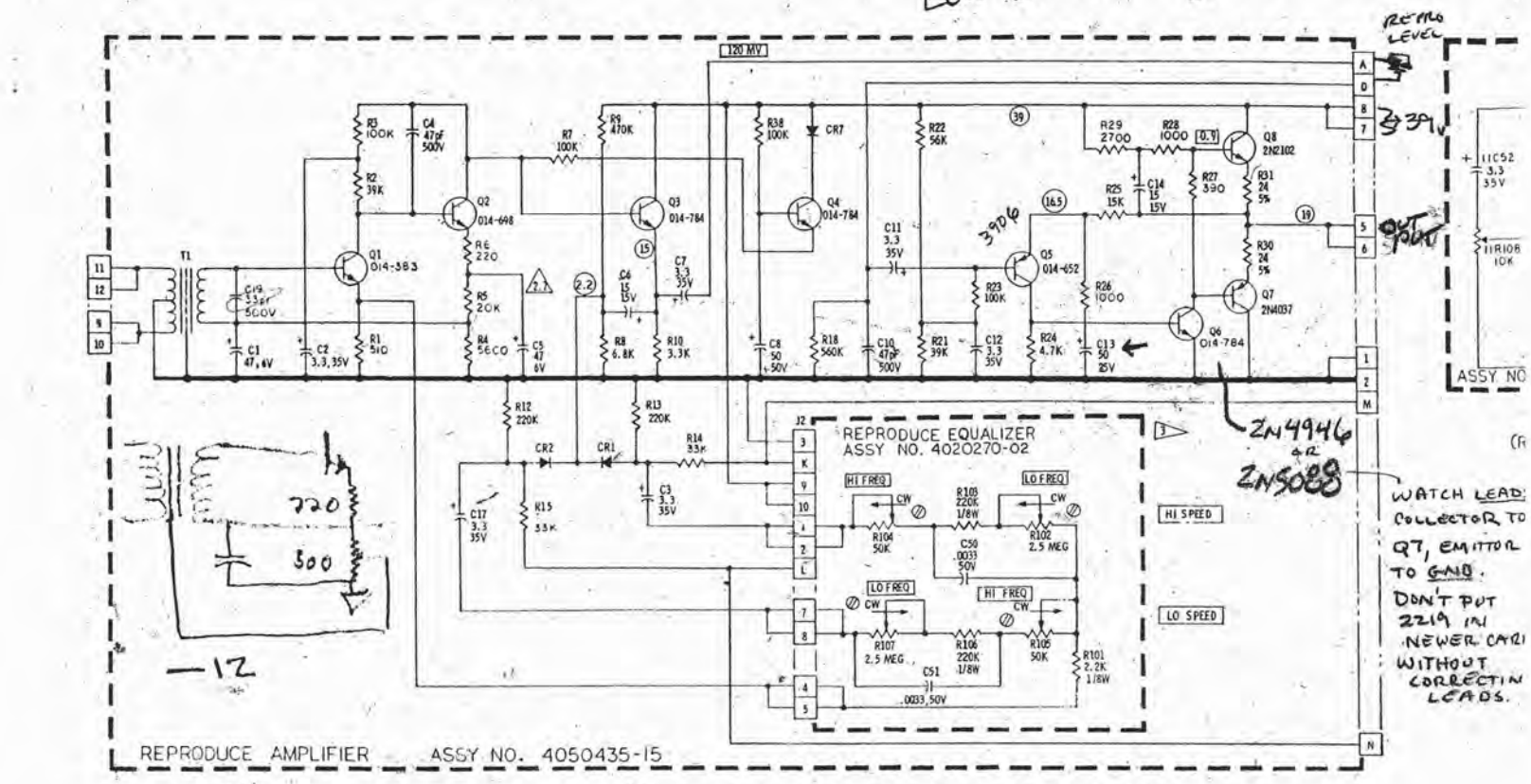
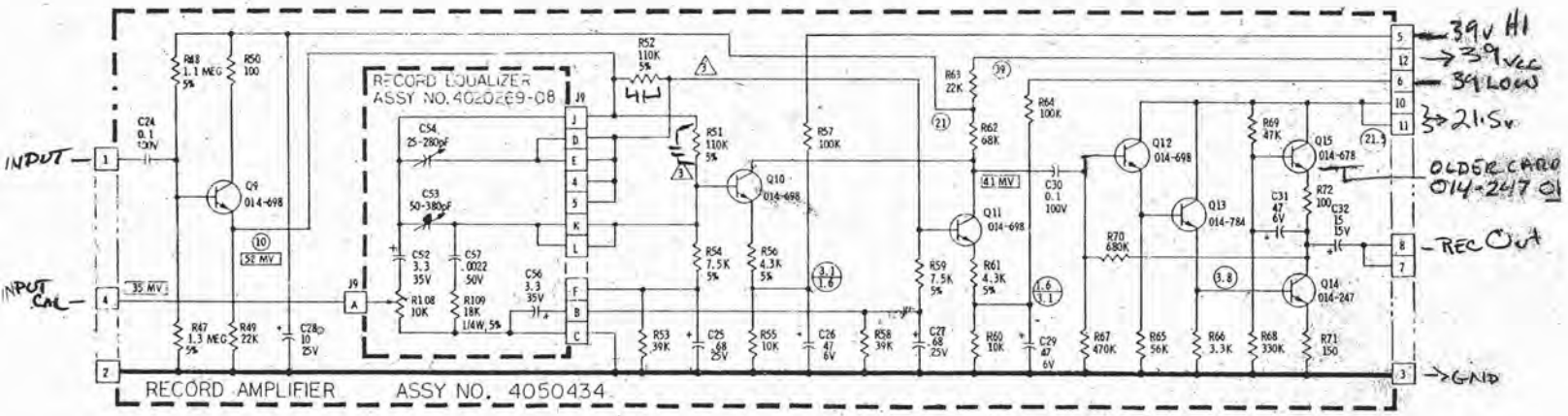


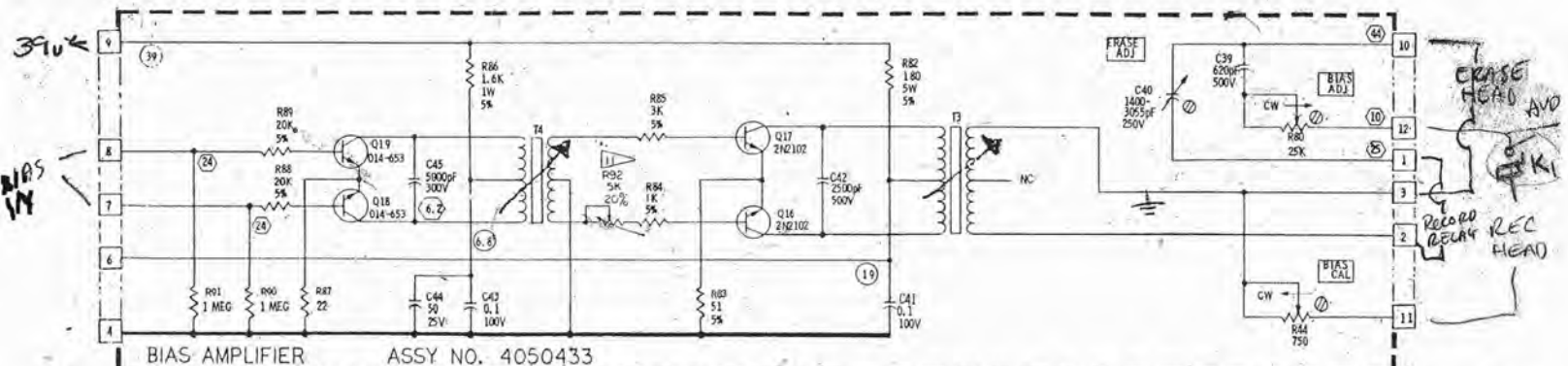
Figure 8-5. JH-16 Channel Strip Board.

LOW REPRO GAIN — check C13



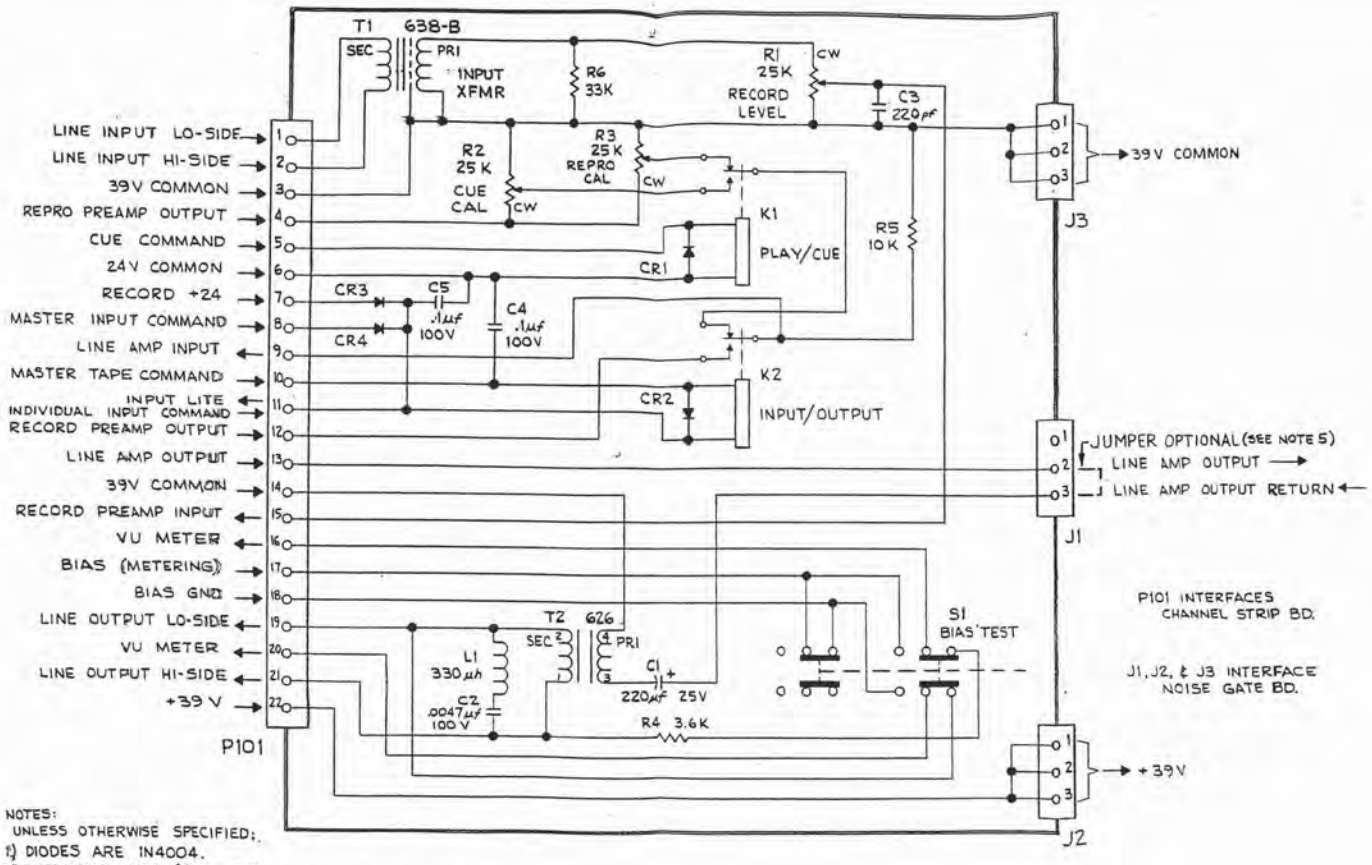
.001 R52 R51 TO LOWER HIGH FREQ





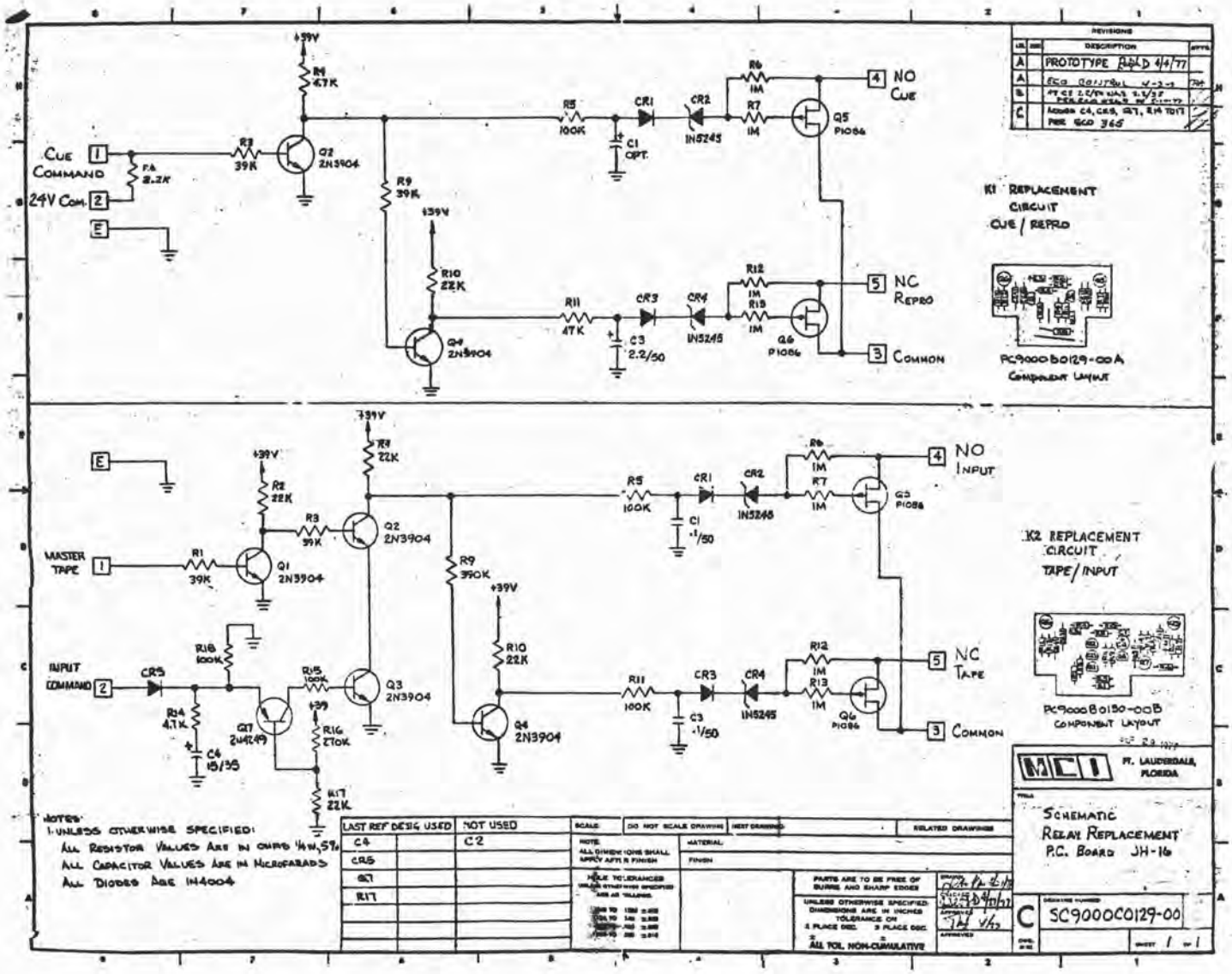
BIAS CARD — PIN 10 IS ERASE HIGH PIN 11 IS RECORD HIGH

MM1200



NOTES:
UNLESS OTHERWISE SPECIFIED:
1) DIODES ARE IN4004.
2) RESISTORS ARE ½ W. 5%.
3) RELAYS ARE SHOWN IN DE-ENERGIZED POSITION.
4) ARROW INDICATES DIRECTION OF SIGNAL, CONTROL, OR POWER FLOW.
5) JUMPER MUST BE USED WHEN THERE IS NO NOISE GATE.
6) P.C. BOARD: PC9000C0005.
7) P.C. BD. ASSY: AS9000C0006.
8) P.C. BD. SILKSCREEN: SS9000C0007.

Figure 8-4. JH-16 Control Card.



REVISIONS			
LTR	DSC	DESCRIPTION	APPD
A		PROTOTYPE RELD 4/4/77	
A		ECO 001758 4-2-79	JH
B		ADDED C4, CR5, Q7, R14 TO17 PER ECO 365	
C			

NOTES:
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTOR VALUES ARE IN OHMS 1/4W, 5%
ALL CAPACITOR VALUES ARE IN MICROFARADS
ALL DIODES ARE IN4004

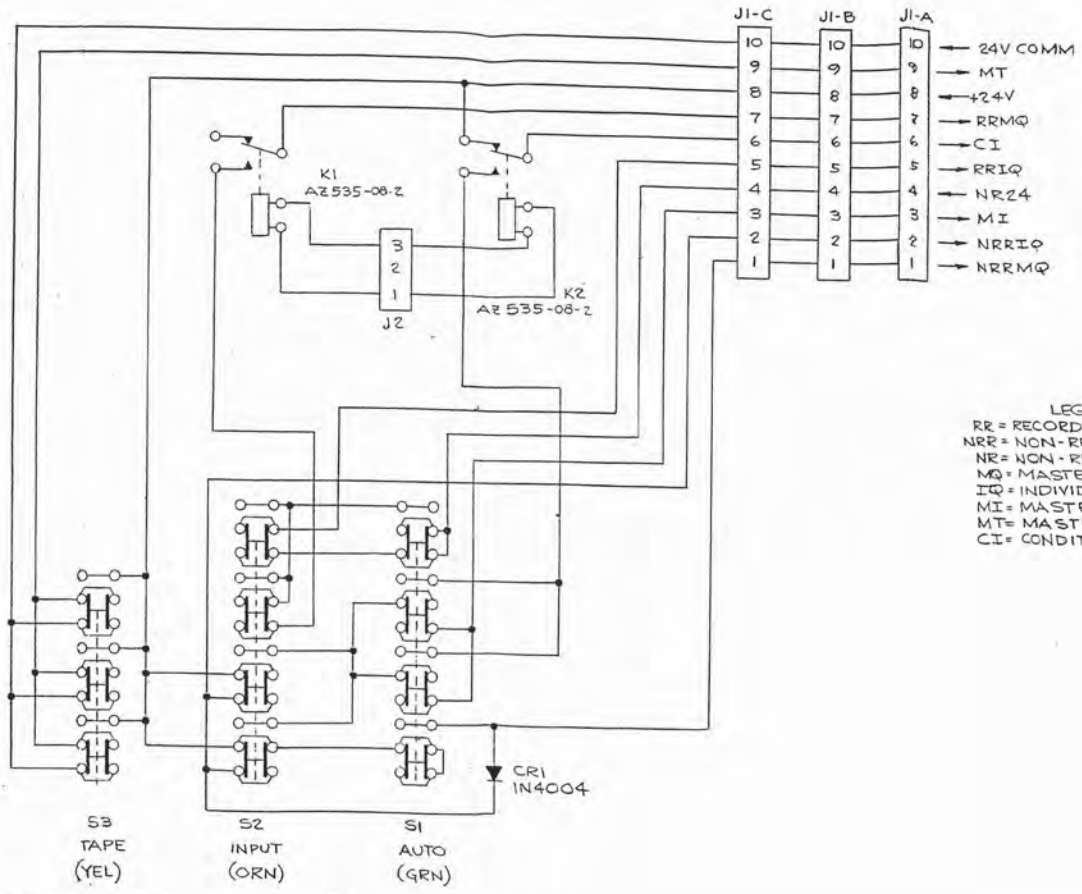
LAST REF DESIG USED	NOT USED
C4	C2
CR5	
Q7	
R17	

MCI FT. LAUDERDALE, FLORIDA

SCHEMATIC RELAY REPLACEMENT P.C. BOARD JH-16

SC90000130-00 C

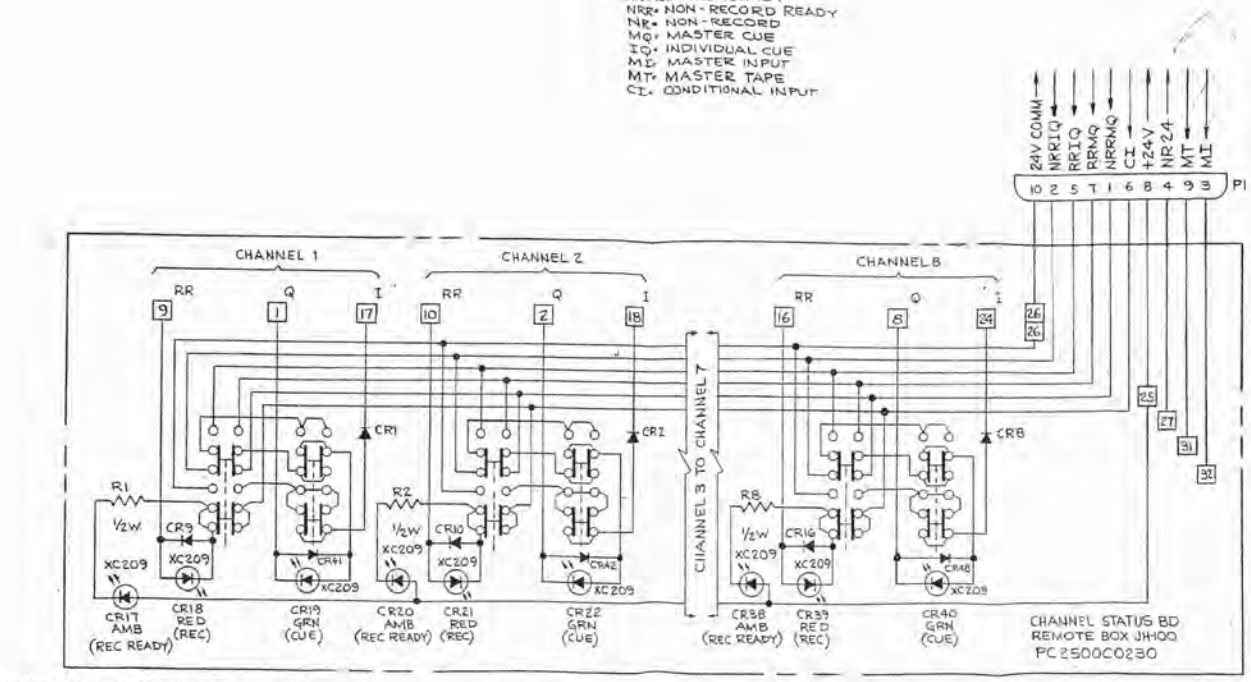
SHEET 1 OF 1



LEGEND
RR = RECORD READY
NRR = NON-RECORD READY
NR = NON-RECORD
MQ = MASTER CUE
IQ = INDIVIDUAL CUE
MI = MASTER INPUT
MT = MASTER TAPE
CI = CONDITIONAL INPUT

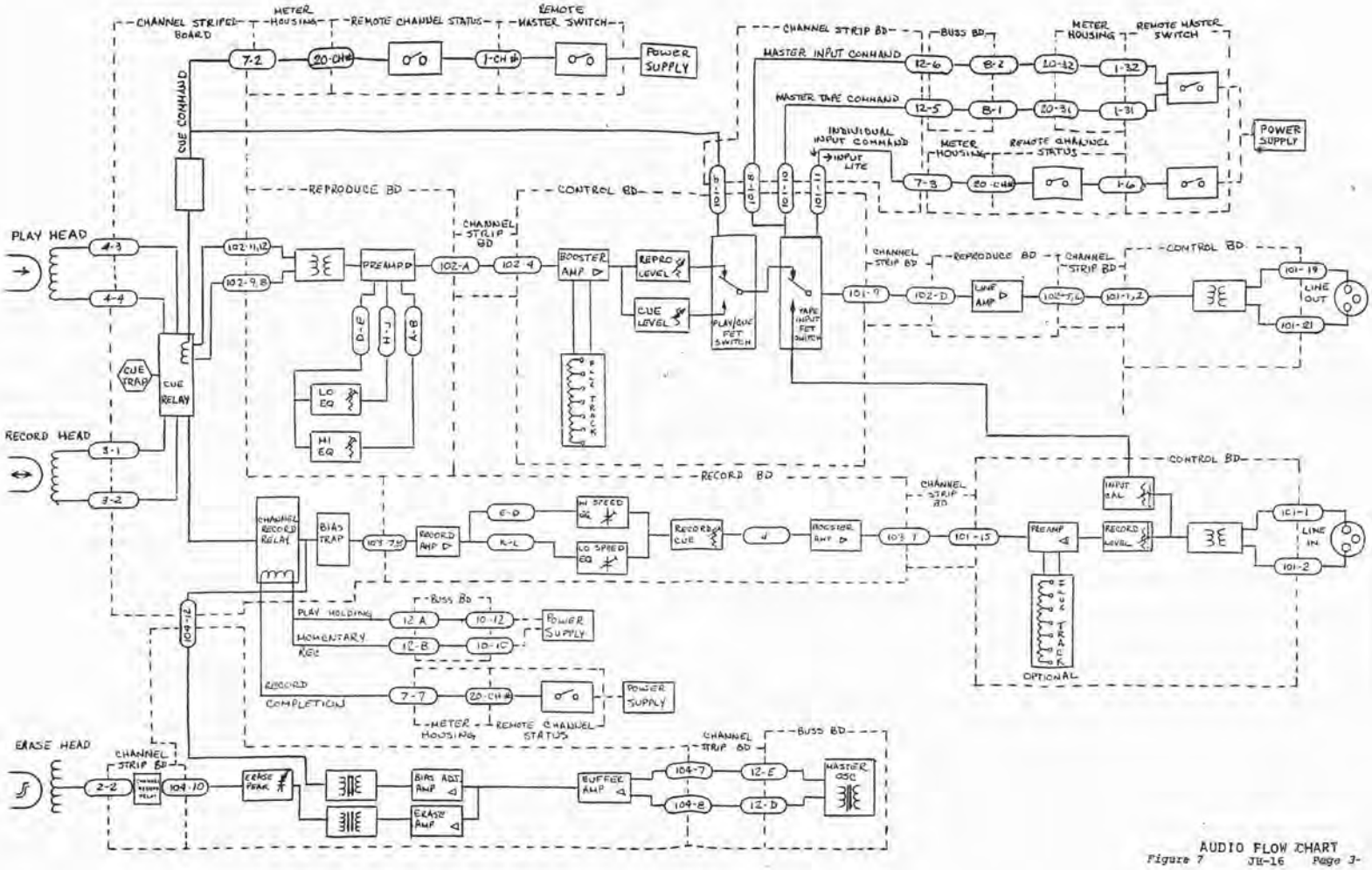
NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL SWITCHES ARE SHOWN IN THE NON-ENGAGED POSITION.
2. ARROWS INDICATE DIRECTION OF CONTROL OR POWER FLOW.
3. INTERFACE CONNECTOR CODING IS DERIVED BY COMBINING LEGEND FUNCTIONS.

MASTER SWITCHING BOARD 25C231
Figure 36



NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL DIODES ARE IN 4004.
2. ALL SWITCHES ARE SHOWN IN THE NON-ENGAGED POSITION.
3. ARROWS INDICATE DIRECTION OF CONTROL OR POWER FLOW.
4. □ = EYELETS ON CHANNEL STATUS BD.
5. INTERFACE CONNECTOR CODING IS DERIVED BY COMBINING LEGEND FUNCTIONS.

CHANNEL STATUS BOARD 25C230
Figure 35



AUDIO FLOW CHART

Figure 7 JE-16 *Page 3-*

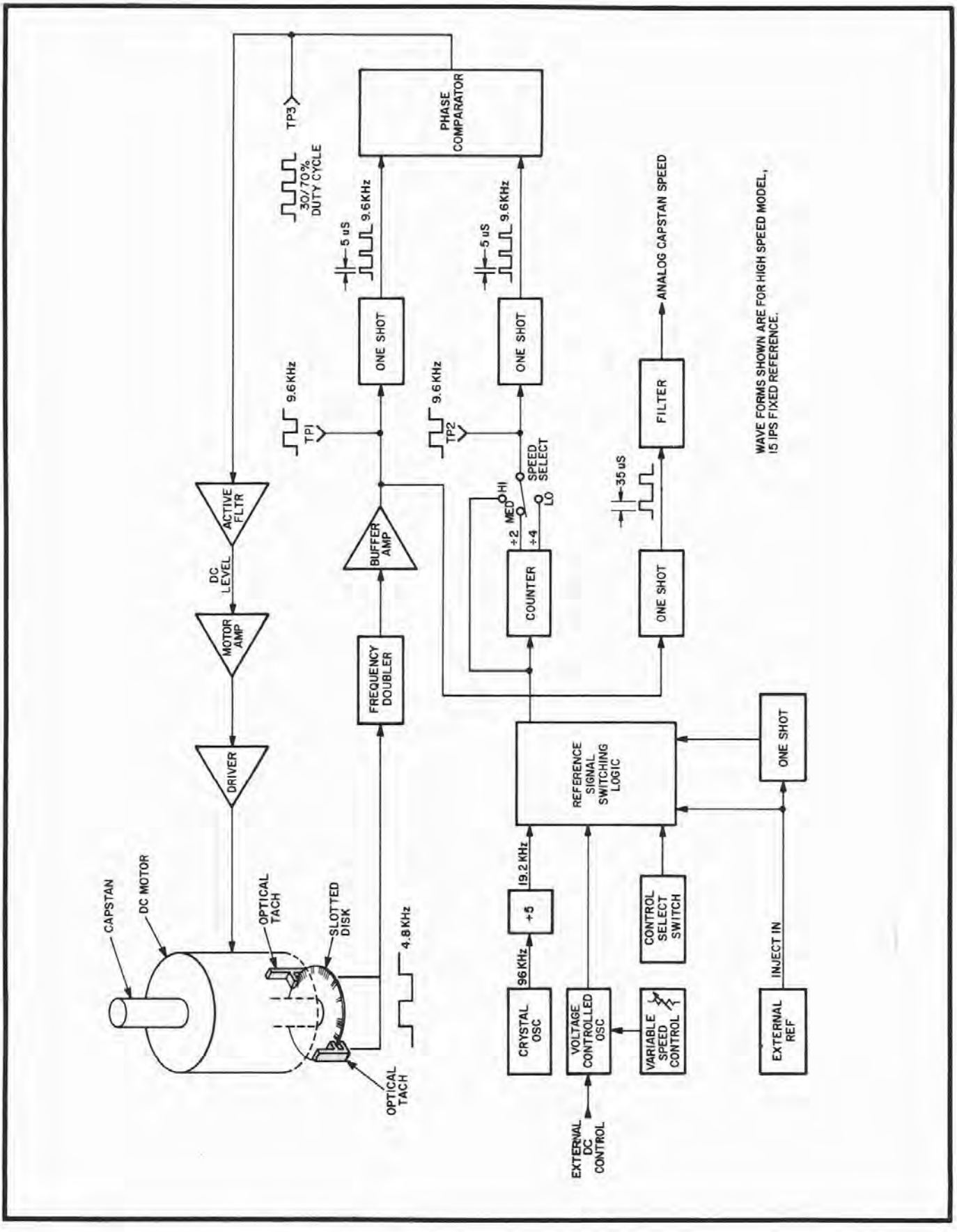


Figure 3-8 Phase Locked Loop Block Diagram

SECTION 8
TROUBLESHOOTING

8.1 Introduction

Do not attempt to troubleshoot or repair this tape machine unless you have a thorough understanding of its operation and circuitry. To familiarize yourself with the tape transport's operation, read this manual and use the block diagrams to follow the signal flow through the schematics.

MCI conducts training seminars at its production facilities covering the theory of operation, alignment, and troubleshooting procedures for all current MCI products. We suggest that technicians involved in the maintenance and repair of MCI equipment attend our training seminar. Contact the Customer Service Department for information on class schedules and enrollment.

It is essential that you have the proper tools and test equipment in order to properly maintain your tape transport. These are listed in Section 3. But remember, the most important troubleshooting tool available is your knowledge of the equipment.

8.2 Control Logic Board

The Control Logic Board comes equipped with its own troubleshooting aid, the Logic Annunciator Board, PC-2500-0177-00. LEDs on this board indicate the logic level of the output commands from the control logic. Each LED is labeled; the following list gives the command signal name corresponding to the abbreviation printed on the PC board.

Table 8-1

Logic Annunciator Board LEDs

Al Enab	Autolocator enable command
DMVC	Deck manual velocity control
RMVC	Remote manual velocity control (always off)
MVC	Main manual velocity control command
F Fet	Fast FET command
Lifter	Tape Lifter out command
Rw Cmd	Rewind command
Rw Lt	Rewind light command
FF Cmd	Fast forward command
FF Lt	Fast forward light command
Bks	Brake release command
Stop	Stop command
R Idle	Right reel motor idle command
PP Lt	Play preset light command
P Lft	Play left reel motor command
P Rt	Play right reel motor command
Rec	Record command
Rec Mom	Record momentary command
Edit	Edit command
Sh	Shield down command
Sh Lt	Shield light command

A truth table, Table 8-2, summarizes the operation of the Logic Annunciator Board. Each column corresponds to one of the LEDs. To use the board, press the transport control, or remote control, to place the machine in each of the modes listed. In each mode check the condition of the LEDs with

the truth table. Any mismatch between the truth table and the LEDs indicates a problem. Table 8-3 can direct you to the IC on the Control Logic Board which is probably malfunctioning.

The logic diagrams in Section 3, Figures 3-2 through 3-7, detail the logic flow for every control mode. Also, the schematic of the Control Logic Board, SC2500-D-027, indicates the function of each IC chip. Using the logic diagrams and the schematic you can easily trace back from the missing command signal to the faulty IC.

Table 8-2

Logic Annunciator Truth Table

LED / COMMAND	Al Enab	DMVC	RMVC	MVC	F Fet	Lifter	Rw Cmd	Rw Lt	FF Cmd	FF Lt	Bks	Stop	Ridle	PP Lt	P Lft	P Rt	Rec	Rec Mom	Edit	Sh[1]	Sh Lt[1]
RWD	on	on			on	on	on	on			on									on	
FWD	on	on			on	on			on	on	on									on	
STOP	on[2]	on									on	on	on							on	
PLAY	on	on									on			on	on	on					
RECORD	on	on									on			on	on	on	on	[3]			
EDIT		on									on		on		on				on	on	on
MVC		on		on	on						on										
LATCHED MVC	on	on		on	on	on					on									on	
AUTOLOCATE	on	on			on	on		on		on	on									on	
NO TAPE		on																			
MANUAL TAPE LIFTER OUT	on	on									on									on	

[1] Always on if shield is latched.
[2] Off while STOP is pressed down.
[3] On while RECORD is pressed down.

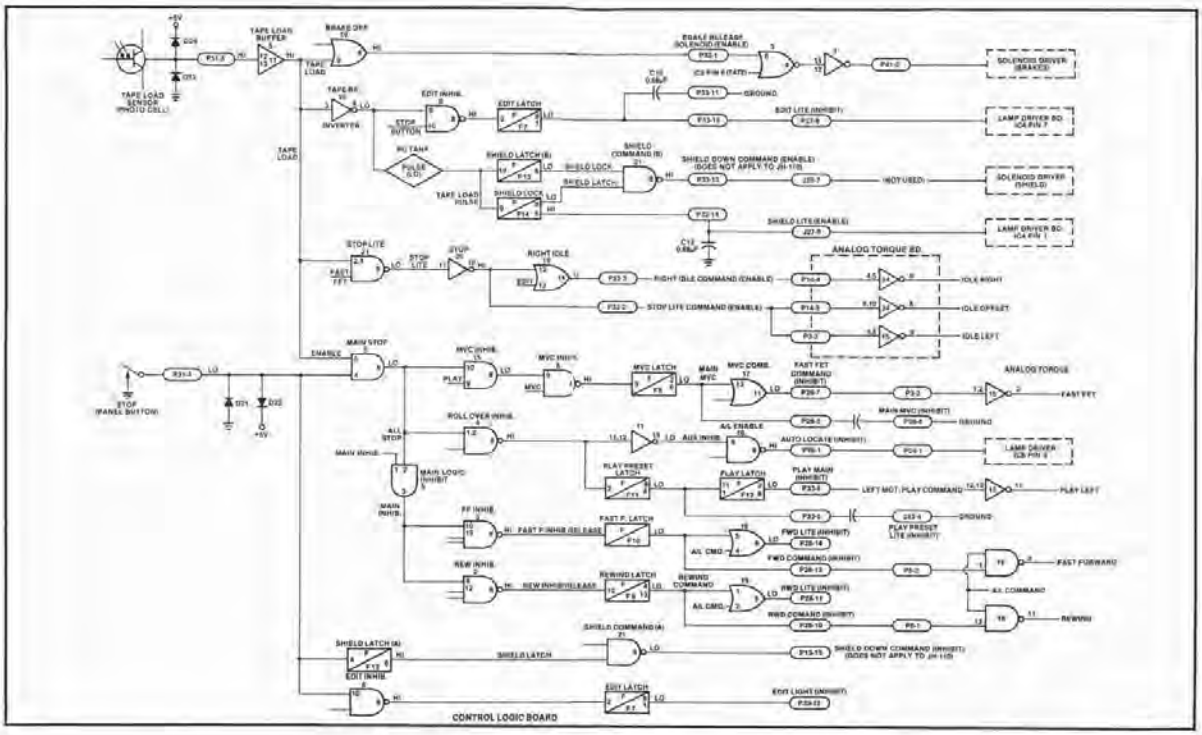


Figure 3-2 Stop Mode Logic

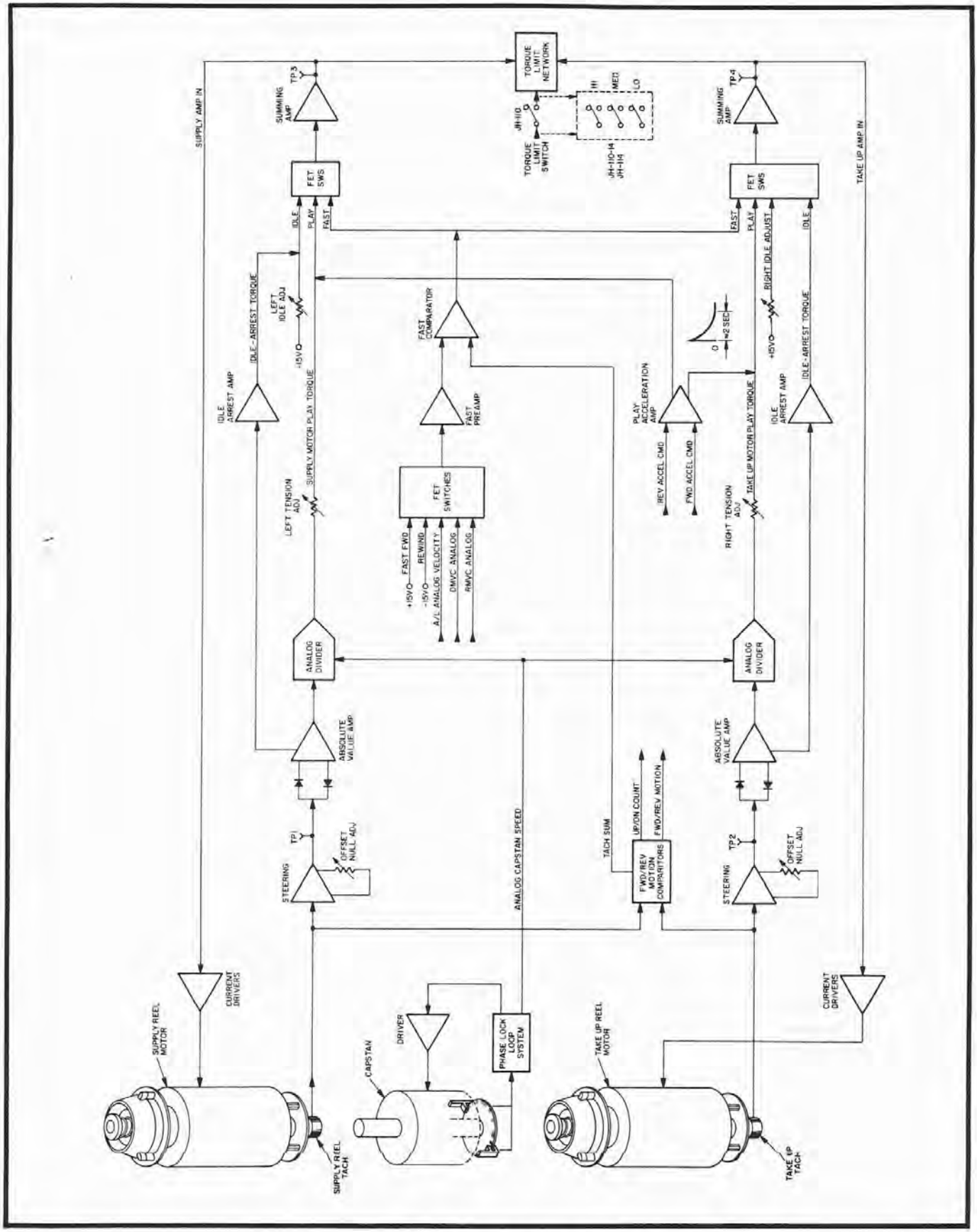
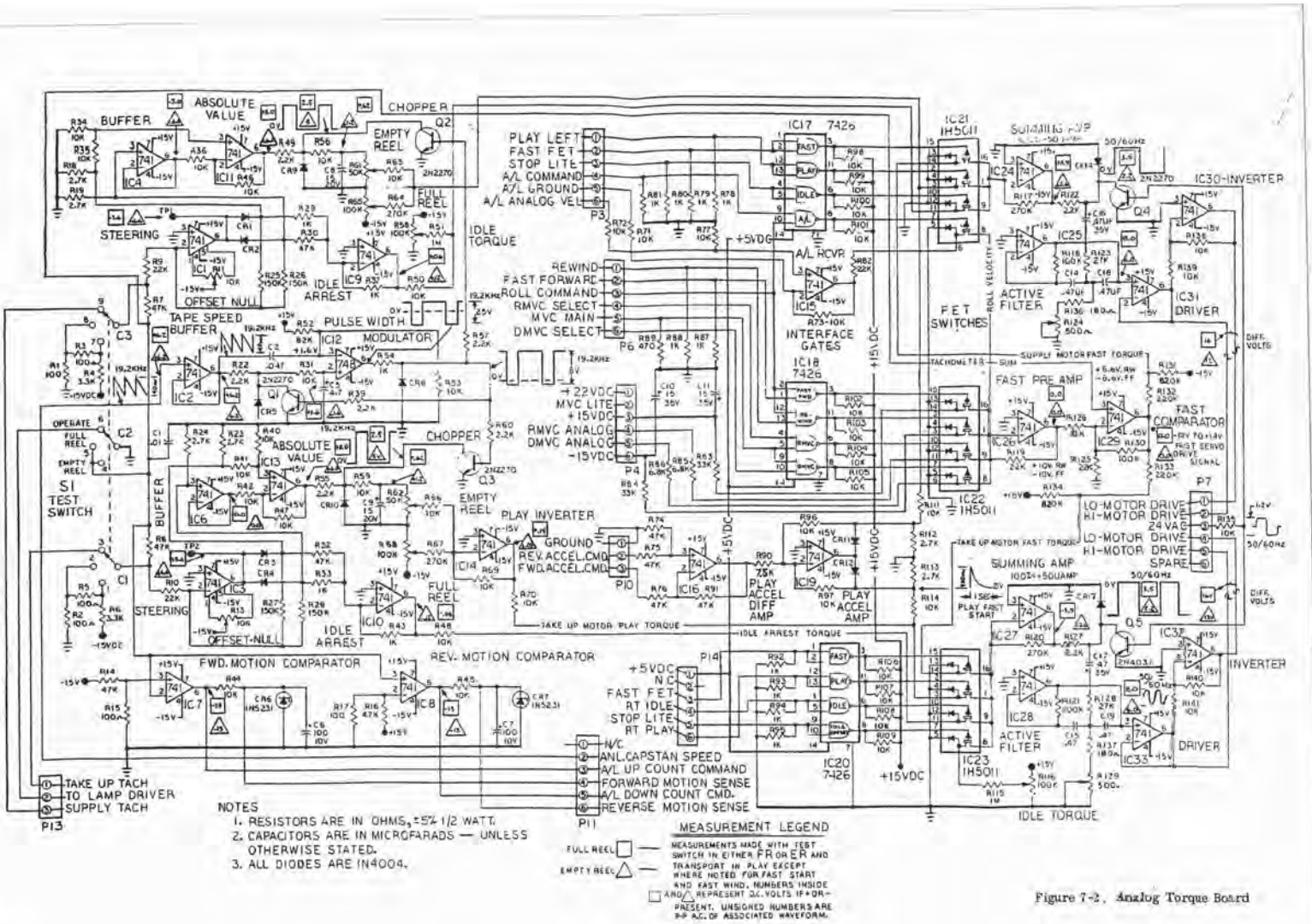


Figure 3-13 Tape Tension Servo Block Diagram



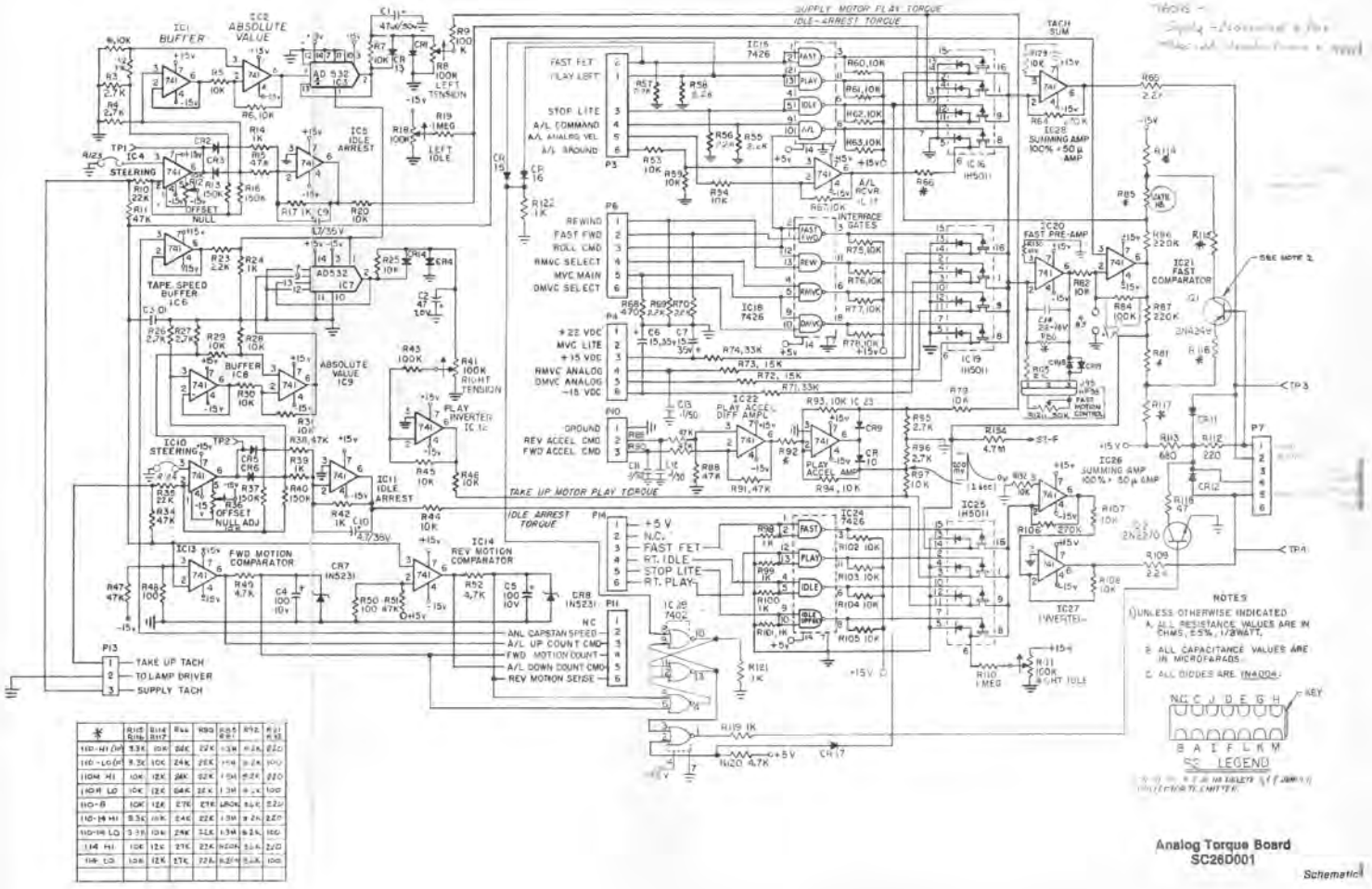
NOTES
1. RESISTORS ARE IN OHMS, ±5% 1/2 WATT.
2. CAPACITORS ARE IN MICROFARADS — UNLESS OTHERWISE STATED.
3. ALL DIODES ARE IN4004.

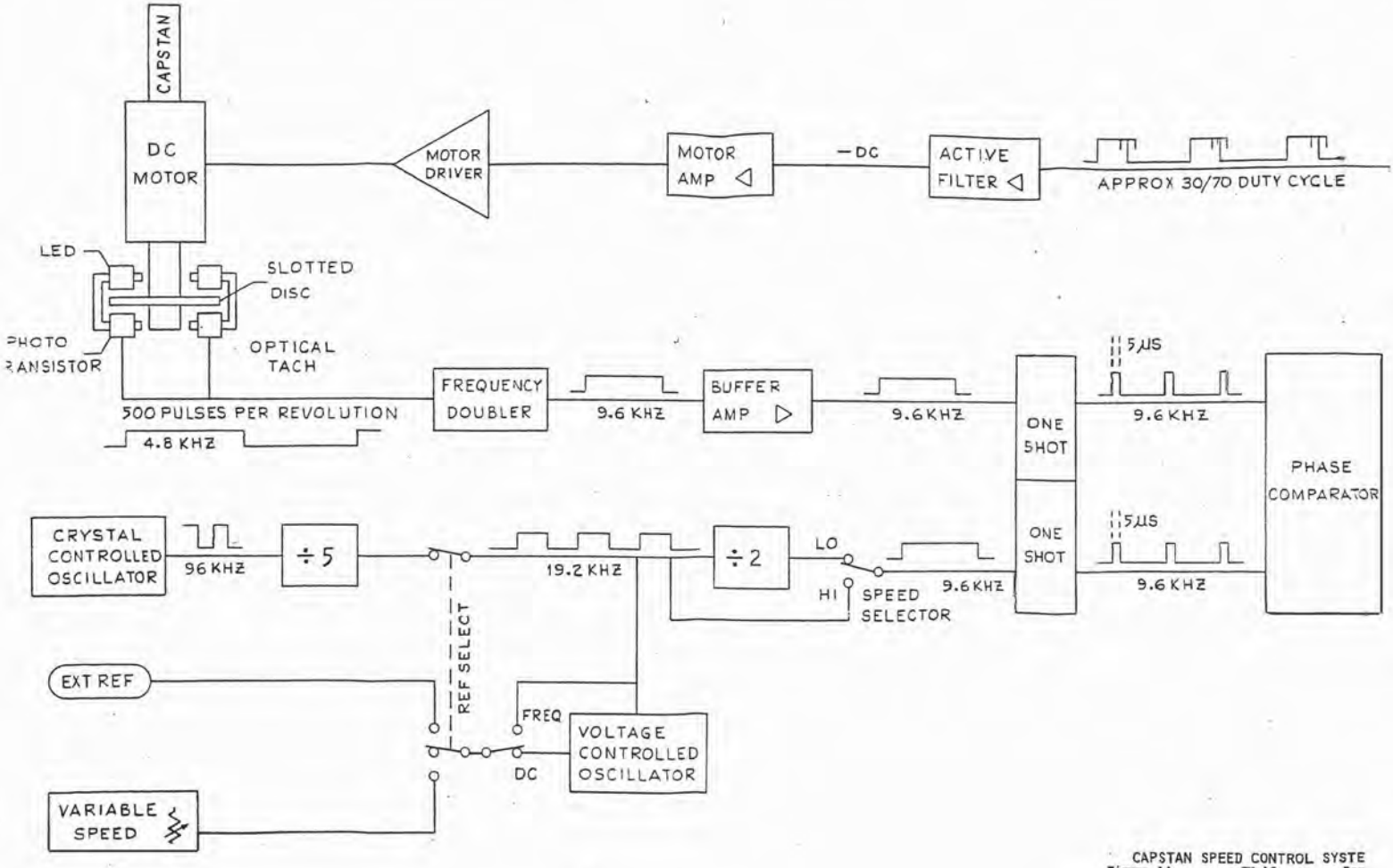
MEASUREMENT LEGEND

FULL REEL □ — MEASUREMENTS MADE WITH TEST SWITCH IN EITHER FR OR ER AND TRANSPORT IN PLAY EXCEPT WHERE NOTED FOR FAST START AND FAST WIND. NUMBERS INSIDE □ AND △ REPRESENT DC VOLTS IF + OR − PRESENT. UNSIGNED NUMBERS ARE P-P AC OF ASSOCIATED WAVEFORM.

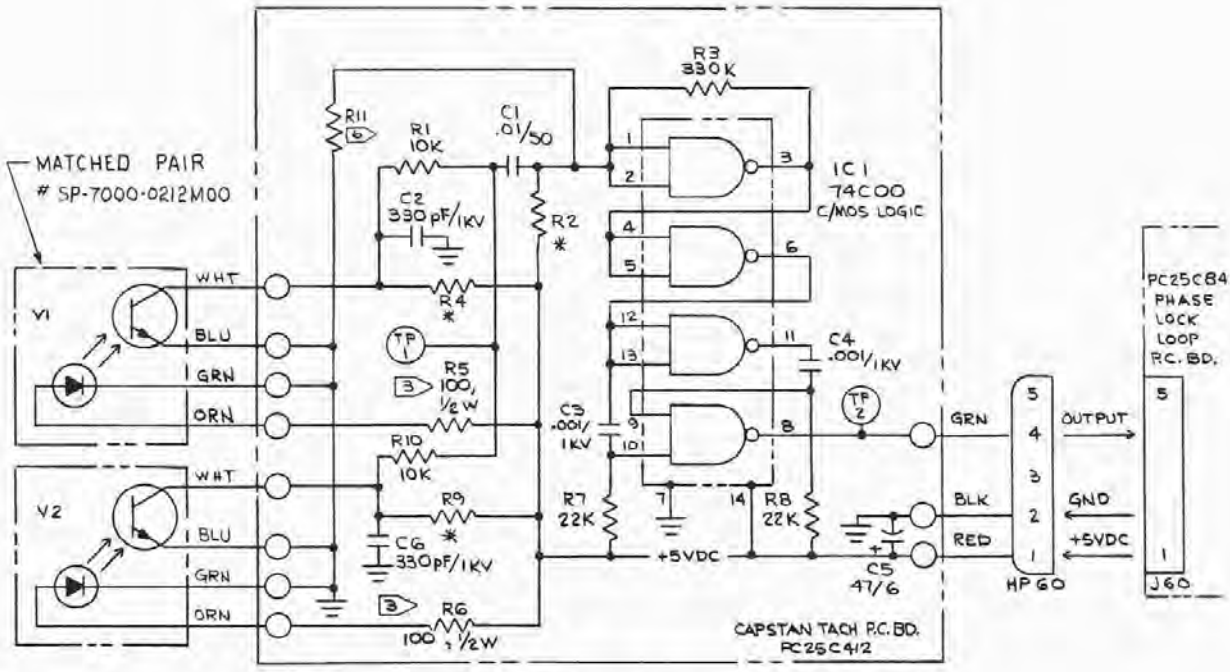
EMPTY REEL △ — MEASUREMENTS MADE WITH TEST SWITCH IN EITHER FR OR ER AND TRANSPORT IN PLAY EXCEPT WHERE NOTED FOR FAST START AND FAST WIND. NUMBERS INSIDE □ AND △ REPRESENT DC VOLTS IF + OR − PRESENT. UNSIGNED NUMBERS ARE P-P AC OF ASSOCIATED WAVEFORM.

Figure 7-2. Analog Torque Board


IC1 BUFFER
IC2 ABSOLUTE VALUE
SUPPLY MOTOR PLAY TORQUE
IDLE-ARREST TORQUE
TACH SUM
IC28 SUMMING AMP 100% +50 μ AMP
IC20 FAST PRE-AMP
IC21 FAST COMPARATOR
IC26 SUMMING AMP 100% + 50 μ AMP
IC27 (INVERTER)
IC5 IDLE ARREST
IC6 TAPE SPEED BUFFER
IC7 AD532
IC8 BUFFER
IC9 ABSOLUTE VALUE
IC10 STEERING
IC11 IDLE ARREST
IC12 PLAY INVERTER
IC13 FWD MOTION COMPARATOR
IC14 REV MOTION COMPARATOR
IC15 A/L RCVR.
IC16 IH5011
IC17 A/L RCVR.
IC18 7426
IC19 IH5011
IC22 PLAY ACCEL DIFF AMP
IC23 PLAY ACCEL AMP
IC24 7426
IC25 IH5011
IC29 7402
STEERING
OFFSET NULL
TAPE SPEED BUFFER IC6
PLAY INVERTER IC 12
RIGHT TENSION
LEFT TENSION
LEFT IDLE
FWD MOTION COMPARATOR
REV MOTION COMPARATOR
TAKE UP MOTOR PLAY TORQUE
IDLE ARREST TORQUE
FAST FET
PLAY LIFT
STOP LITE
A/L COMMAND
A/L ANALOG VEL
A/L GROUND
REWIND
FAST FWD
ROLL CMD
RMVC SELECT
MVC MAIN
DMVC SELECT
+22 VDC
MVC LITE
+15 VDC
RMVC ANALOG
DMVC ANALOG
-15 VDC
GROUND
REV ACCEL CMD
FWD ACCEL CMD
+5 V
NC
FAST FET
RT. IDLE
STOP LITE
RT. PLAY
ANL CAPSTAN SPEED
A/L UP COUNT CMD
FWD MOTION COUNT
A/L DOWN COUNT CMD
REV MOTION SENSE
TAKE UP TACH
TO LAMP DRIVER
SUPPLY TACH
INTERFACE 3 GATES
FAST PRE-AMP
FAST MOTION CONTROL
NOTES
1) UNLESS OTHERWISE INDICATED
A. ALL RESISTANCE VALUES ARE IN OHMS, ±5%, 1/2WATT.
B. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
C. ALL DIODES ARE IN4004.
SC LEGEND
Analog Torque Board
SC26D001
Schematic

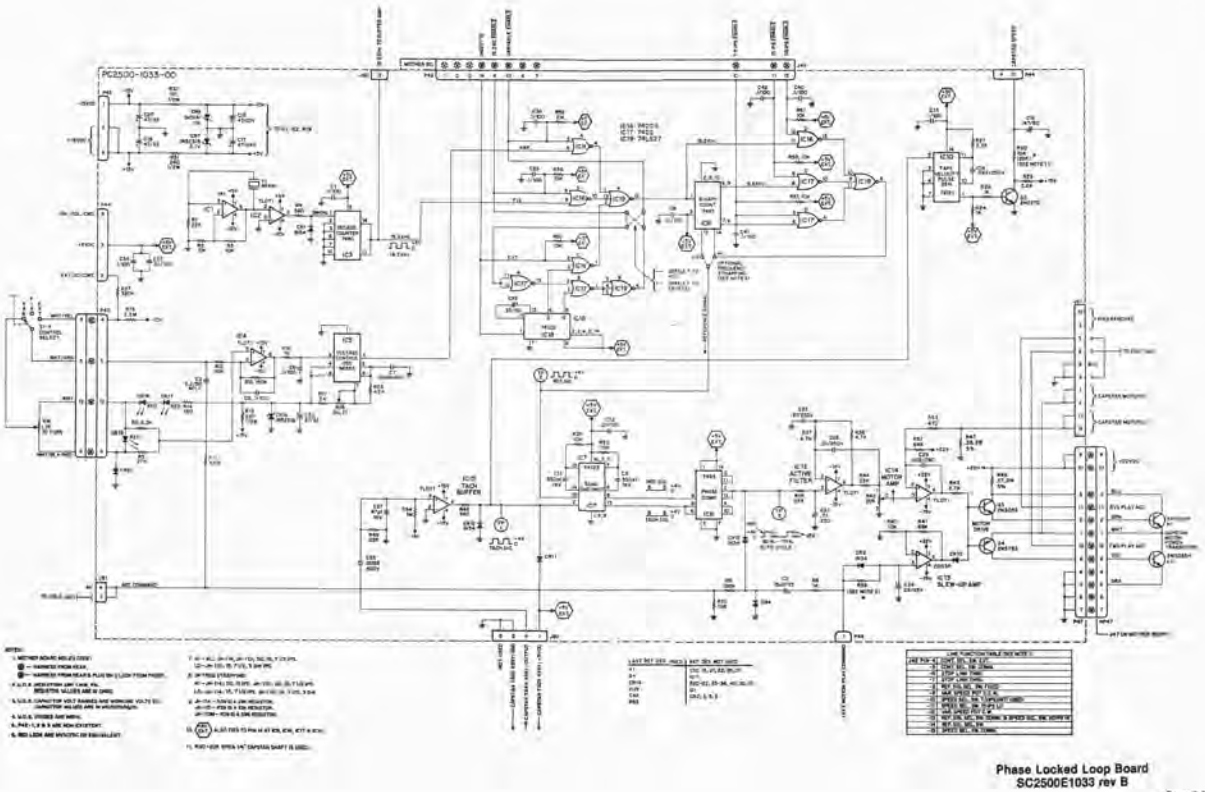


CAPSTAN SPEED CONTROL SYSTE
Figure 14 JH-16 *Pag*

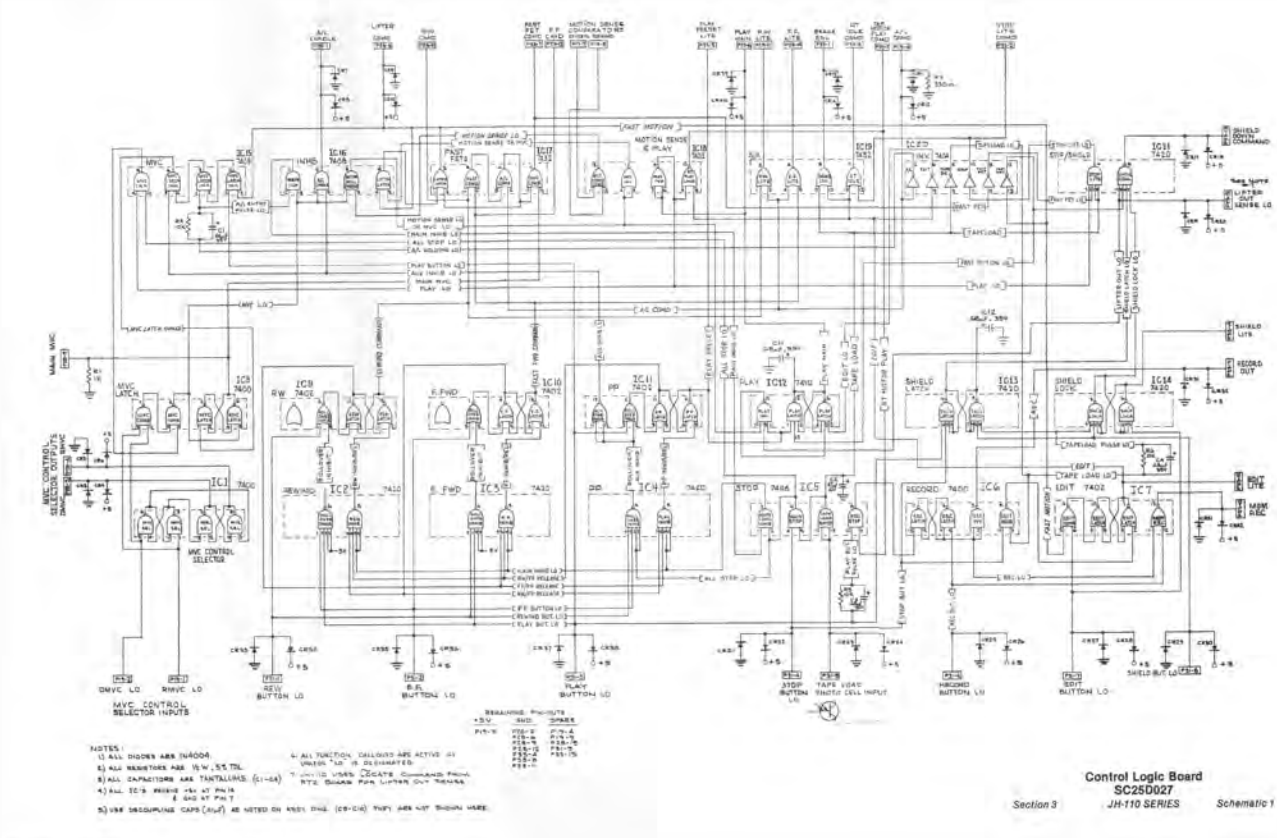


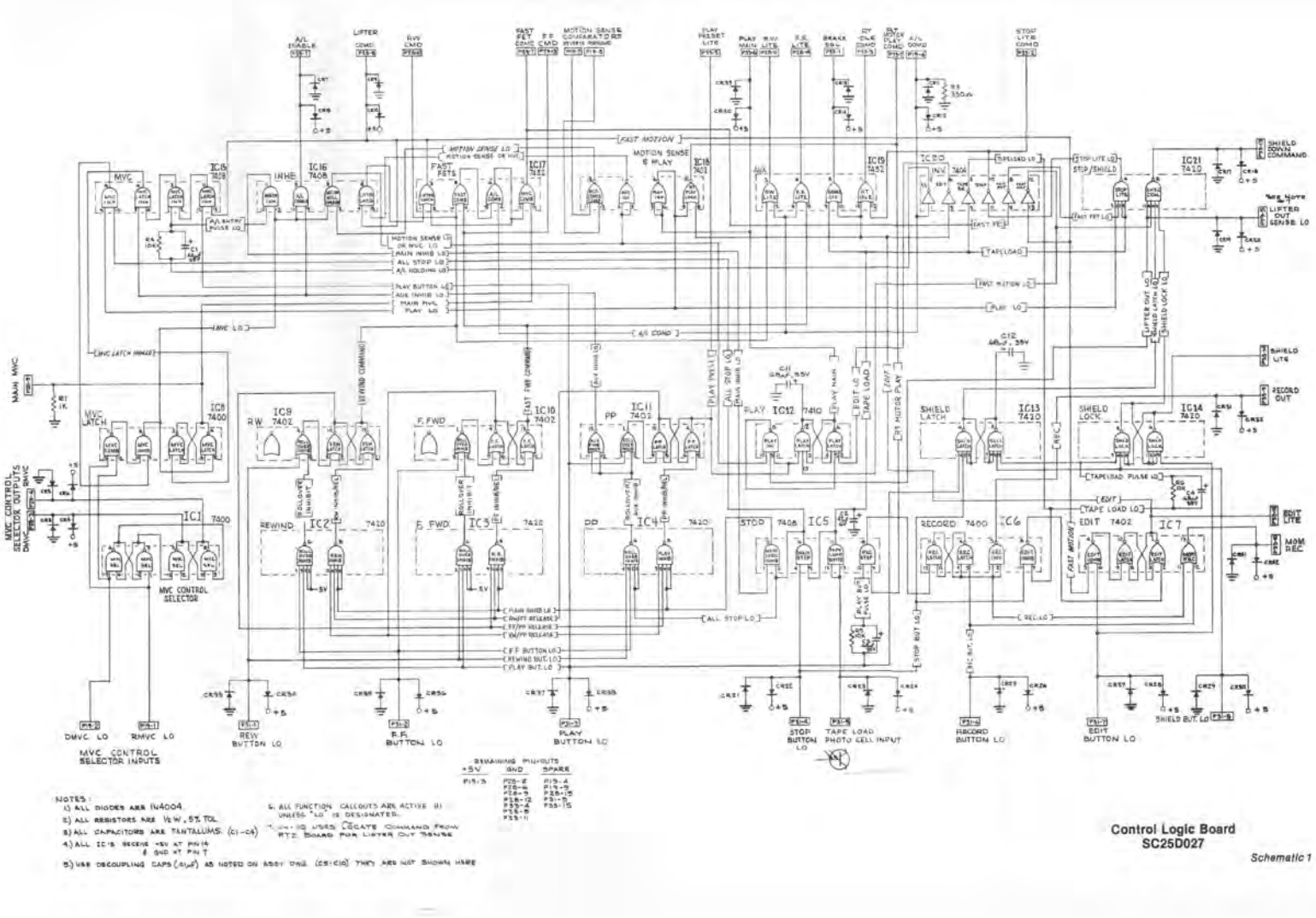
NOTES:

1) UNLESS OTHERWISE SPECIFIED:
   ALL RESISTOR VALUES ARE IN OHMS 1/4W, 5%.
   ALL CAPACITOR VALUES ARE IN MICROFARADS/VOLTS.
2) TP1 & TP2 ARE SWAGED TERM POSTS.
3) R5 & R6 ARE NOMINAL VALUES; MAY CHANGE AT FINAL CHECKOUT.
4) USE LEADS AS SUPPLIED WITH V1 & V2.
5) WIRES TO HP60 ARE 22 AWG, 7 STRAND
6) VALUE SELECTED AT FINAL CHECKOUT
7) * R4, R9 & R2 SELECTIVE TEST COMPONENTS



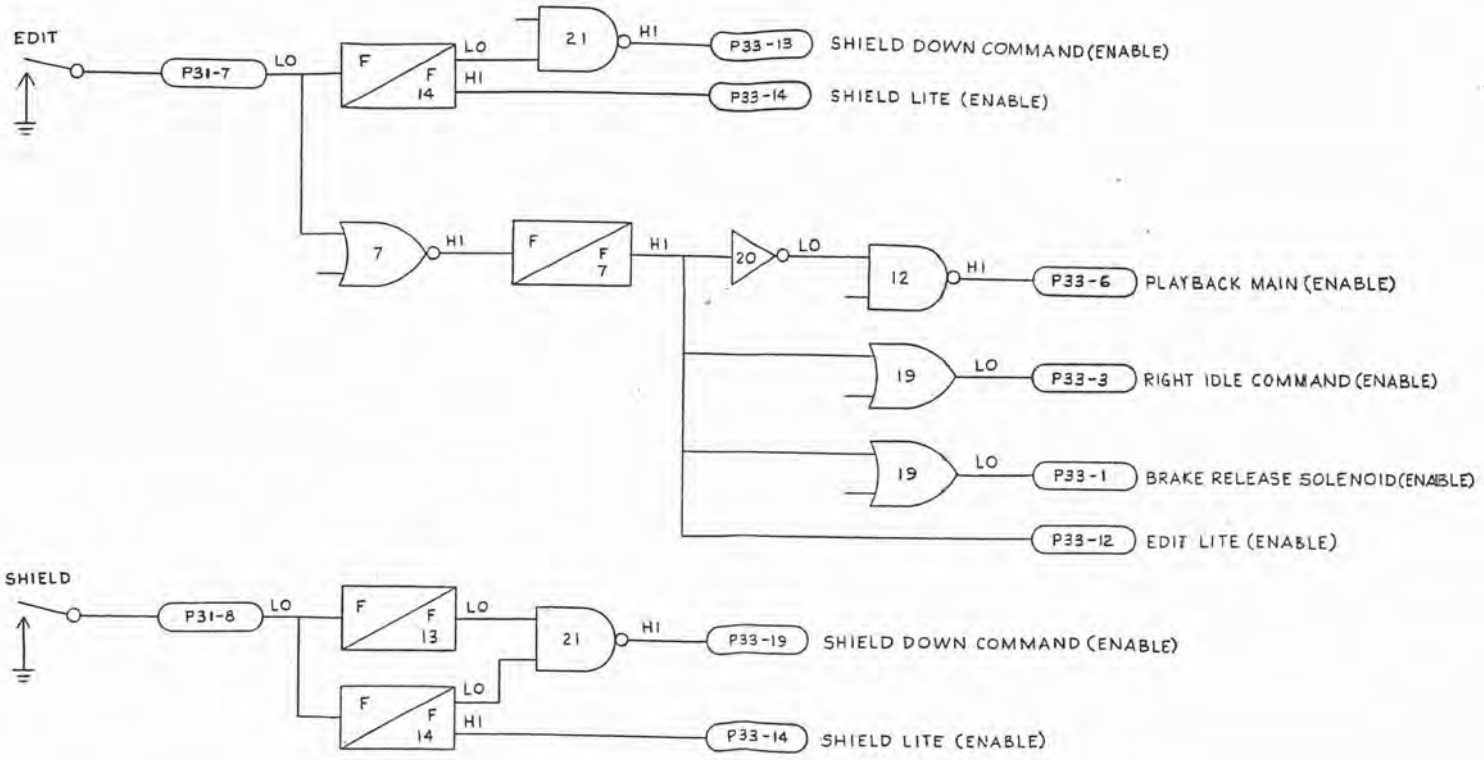
Phase Locked Loop Board
SC2500E1033 rev B


MVC CONTROL SELECTOR INPUTS
NOTES:
1) ALL DIODES ARE IN4004.
2) ALL RESISTORS ARE ½ W, 5% TOL.
3) ALL CAPACITORS ARE TANTALUMS. (C1-C6)
4) ALL IC'S RECEIVE +5V AT PIN 14 & GND AT PIN 7
5) VBB DECOUPLING CAPS (.01μF) AS NOTED ON KEY1 PWB. (C8-C10) THEY ARE NOT SHOWN HERE.
Control Logic Board
SC25D027
Section 3
JH-110 SERIES
Schematic 1

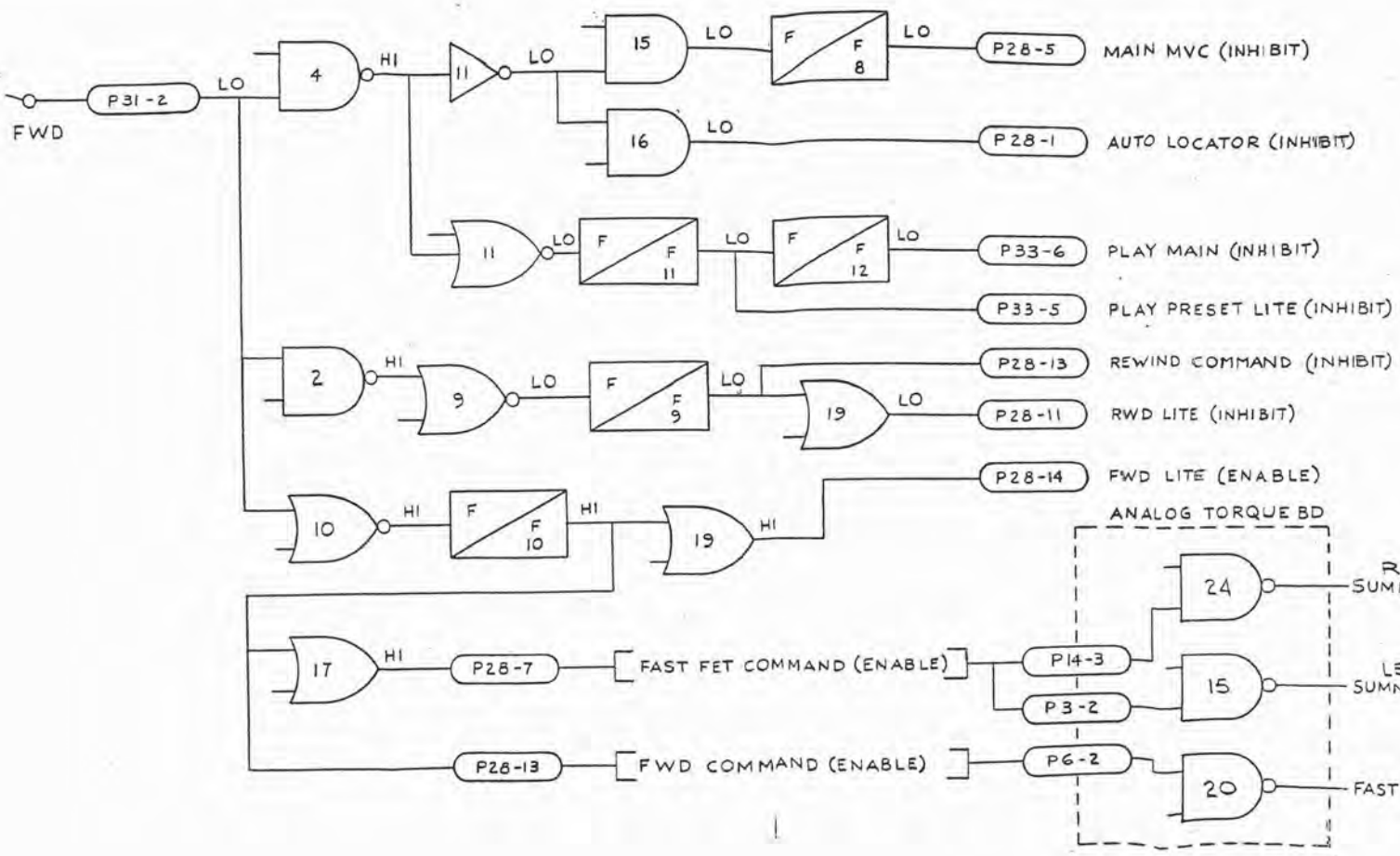


Control Logic Board
SC25D027

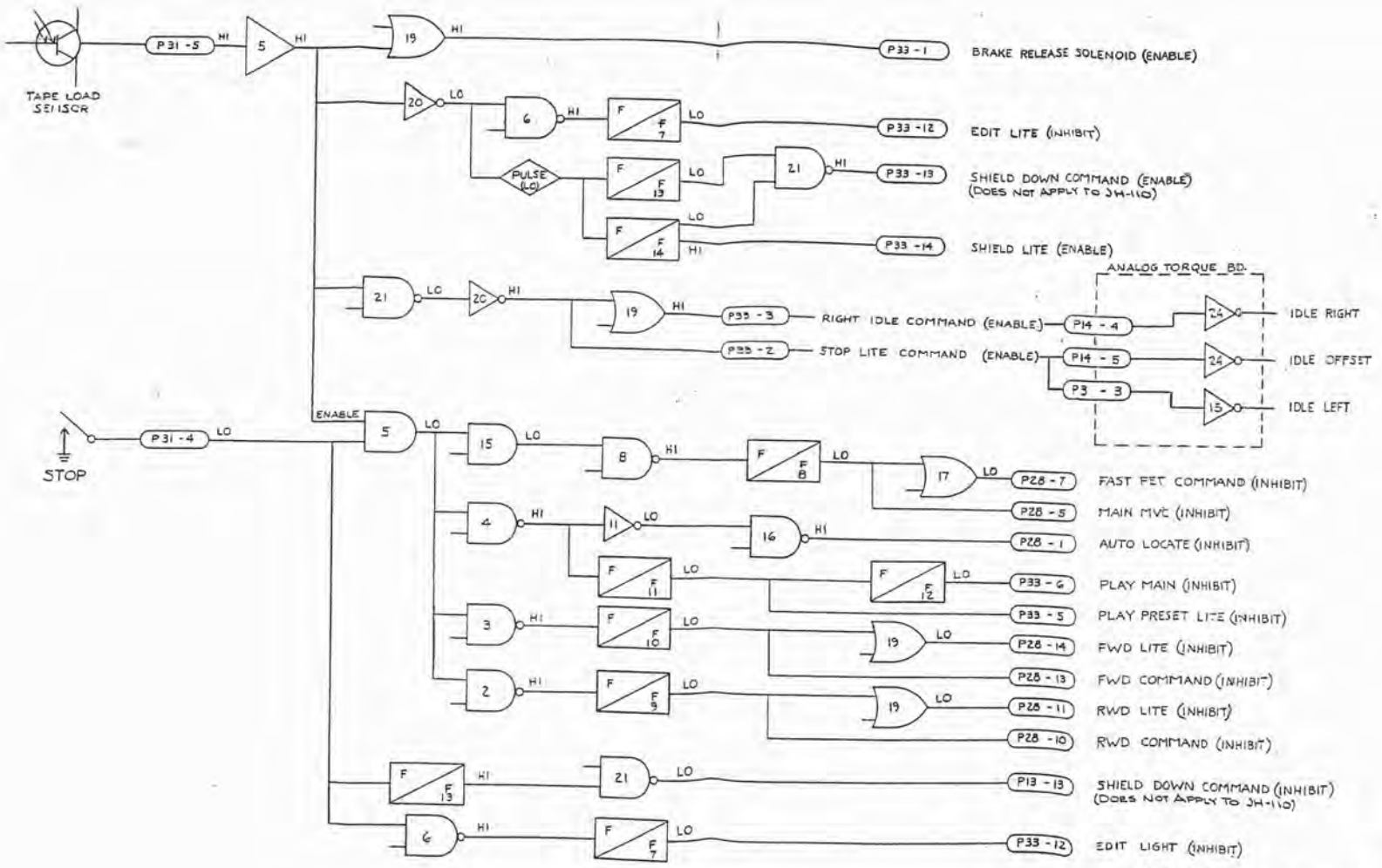
Schematic 1



EDIT AND SHIELD COMMAND
Figure 12 JH-16 *Page 3-1*

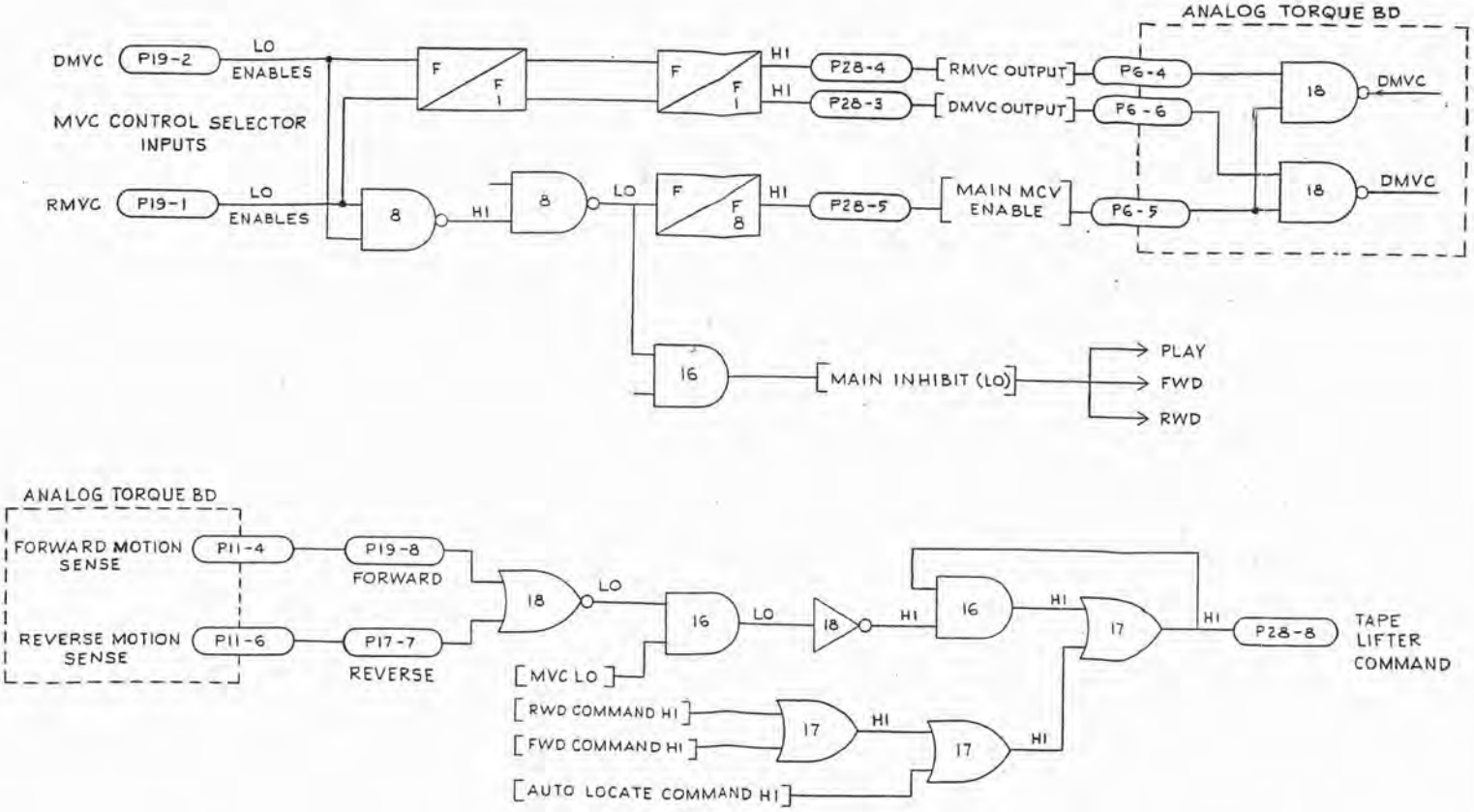


FAST FORWARD COMMAND
Figure 10 JH-16 Page 3-1



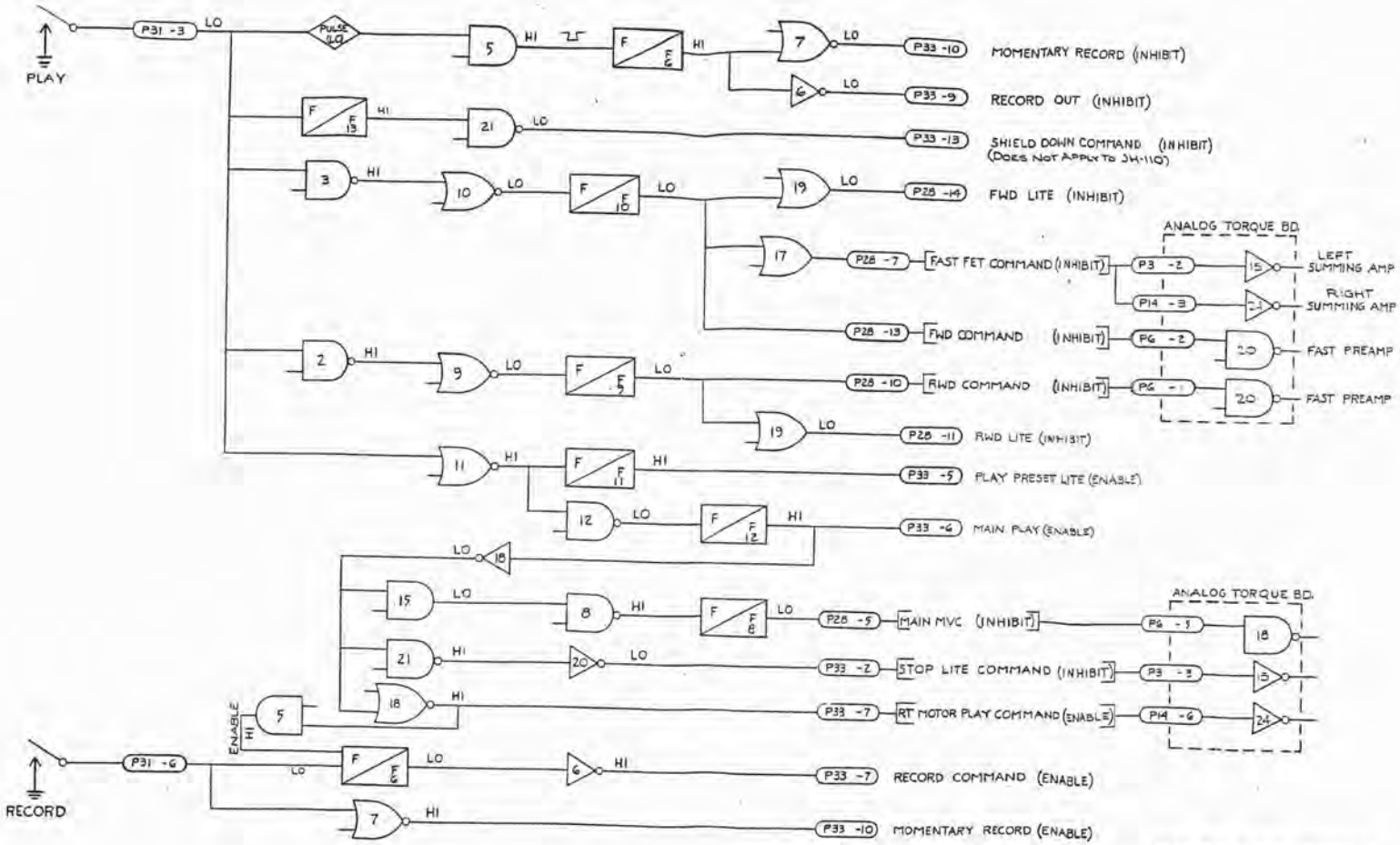
TAPE LOAD AND STOP COMMANDS

Figure 8 JH-16 Page 3-



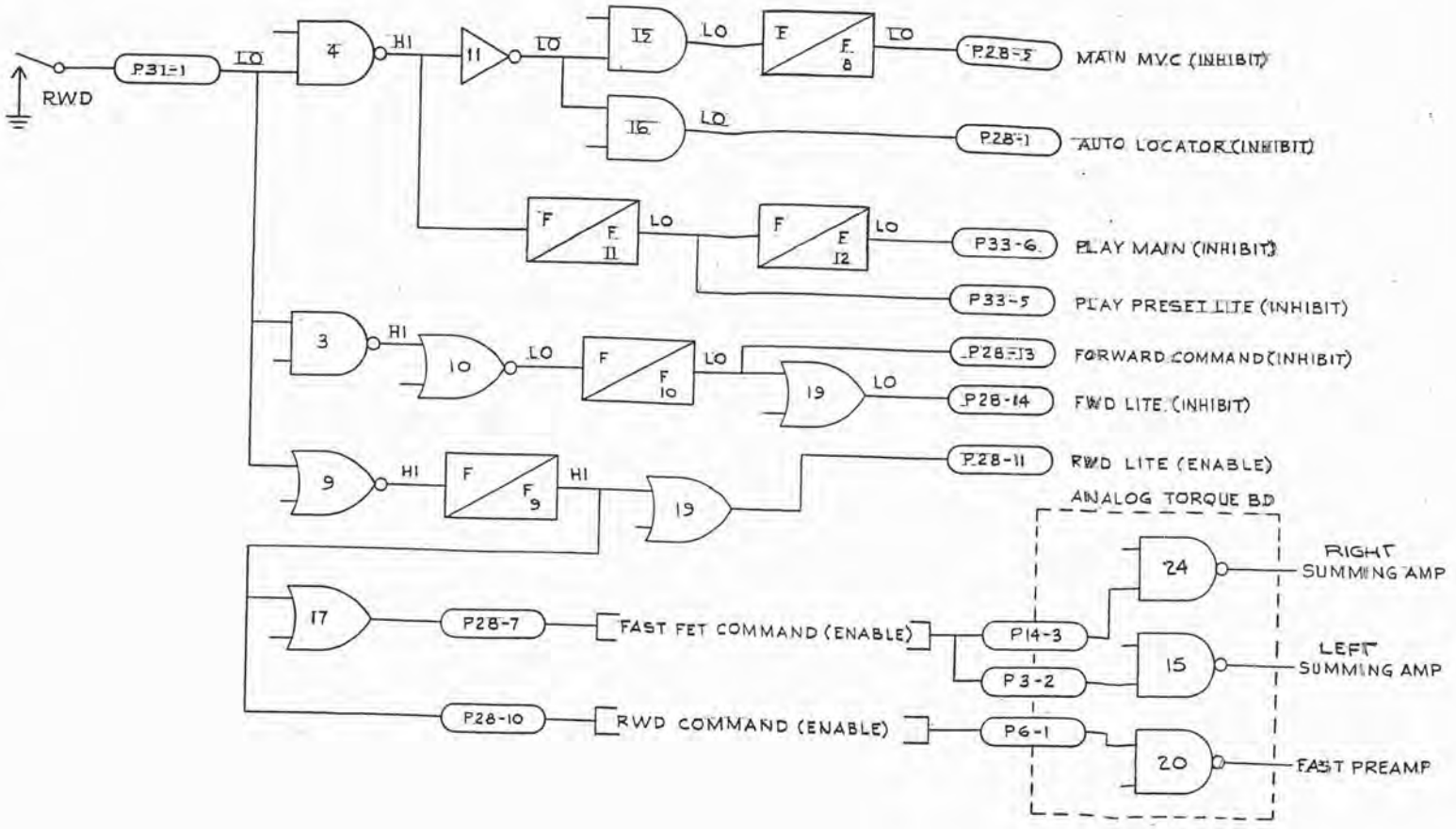
MVC CONTROL SELECTOR AND TAPE LIFTER COMMAND

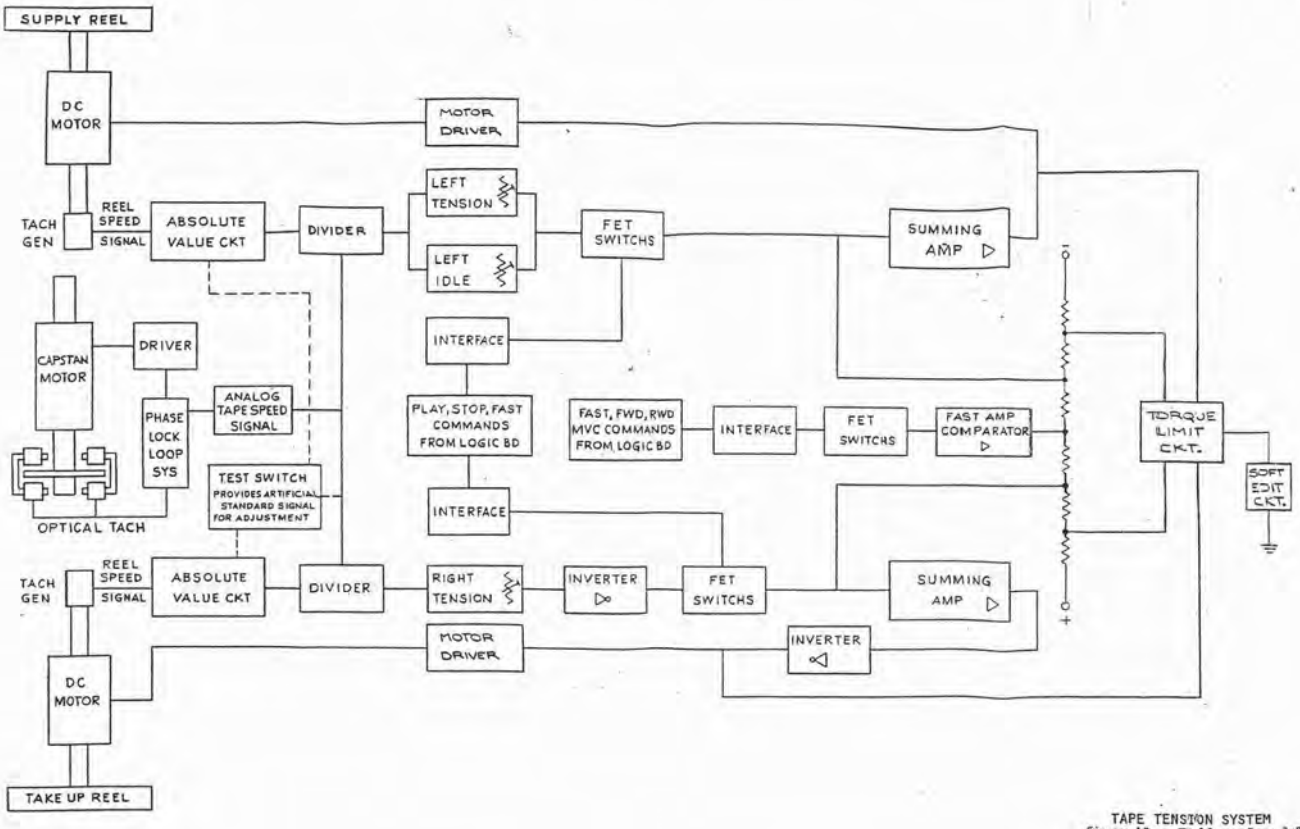
Figure 13 JH-16 *Page 3-17*



PLAY AND RECORD COMMANDS

Figure 9


RWD
P31-1
LO
4
HI
11
LO
12
LO
F
F 8
LO
P28-5
MAIN MVC (INHIBIT)
16
LO
P28-1
AUTO LOCATOR (INHIBIT)
F
F 11
LO
F
F 12
LO
P33-6
PLAY MAIN (INHIBIT)
P33-5
PLAY PRESET LITE (INHIBIT)
3
HI
10
LO
F
F 10
LO
P28-13
FORWARD COMMAND (INHIBIT)
19
LO
P28-14
FWD LITE (INHIBIT)
9
HI
F
F 9
HI
19
P28-11
RWD LITE (ENABLE)
ANALOG TORQUE BD
17
P28-7
FAST FET COMMAND (ENABLE)
P14-3
24
RIGHT SUMMING AMP
P3-2
15
LEFT SUMMING AMP
P28-10
RWD COMMAND (ENABLE)
P6-1
20
FAST PREAMP



TAPE TENSION SYSTEM
figure 18 JH-16 Page 3-29

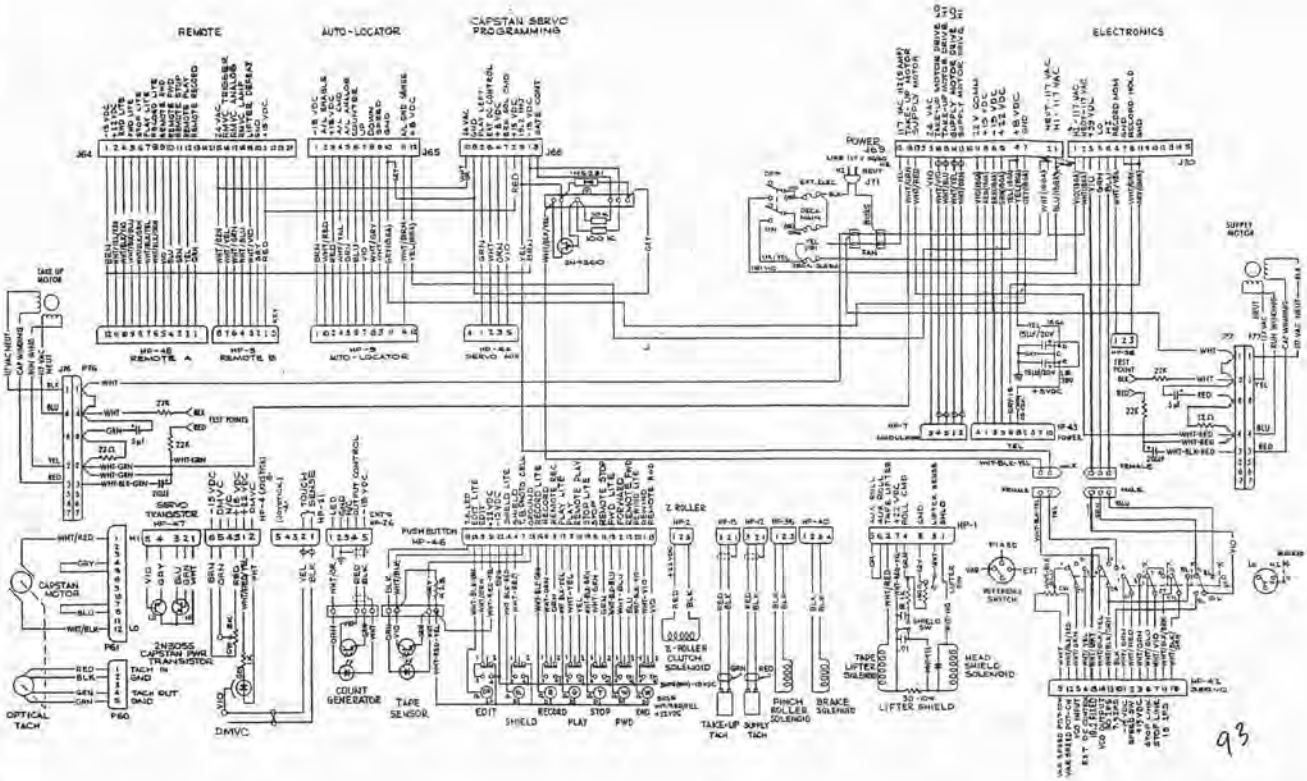
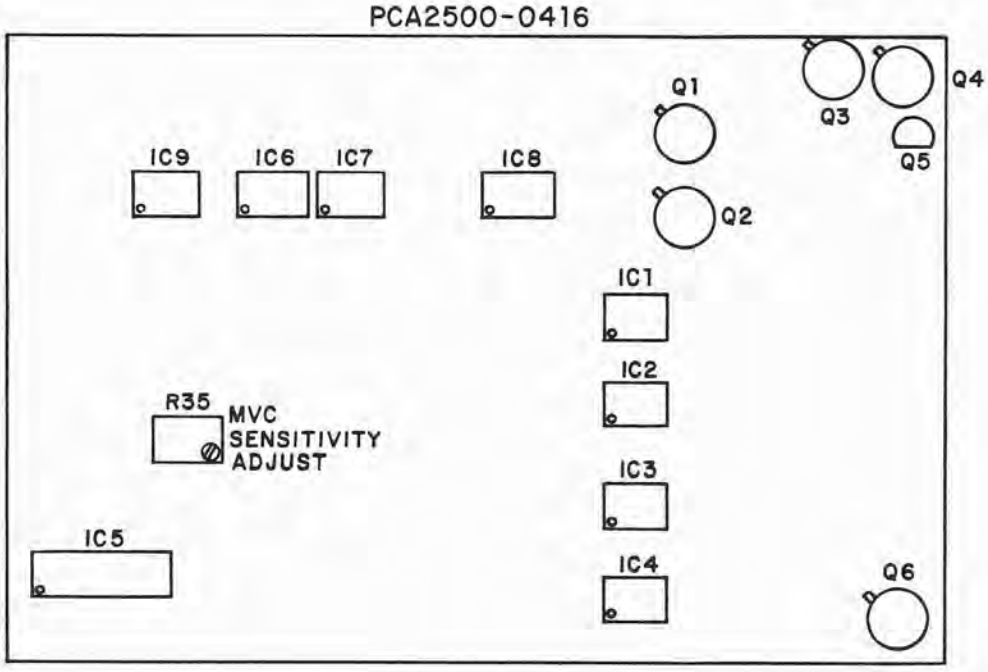


Figure 7-7. Interconnect Harnessing


PCA2500-0416
Q1
Q3
Q4
Q5
IC9
IC6
IC7
IC8
Q2
IC1
IC2
R35
MVC
SENSITIVITY
ADJUST
IC3
IC5
IC4
Q6

LAMP DRIVER

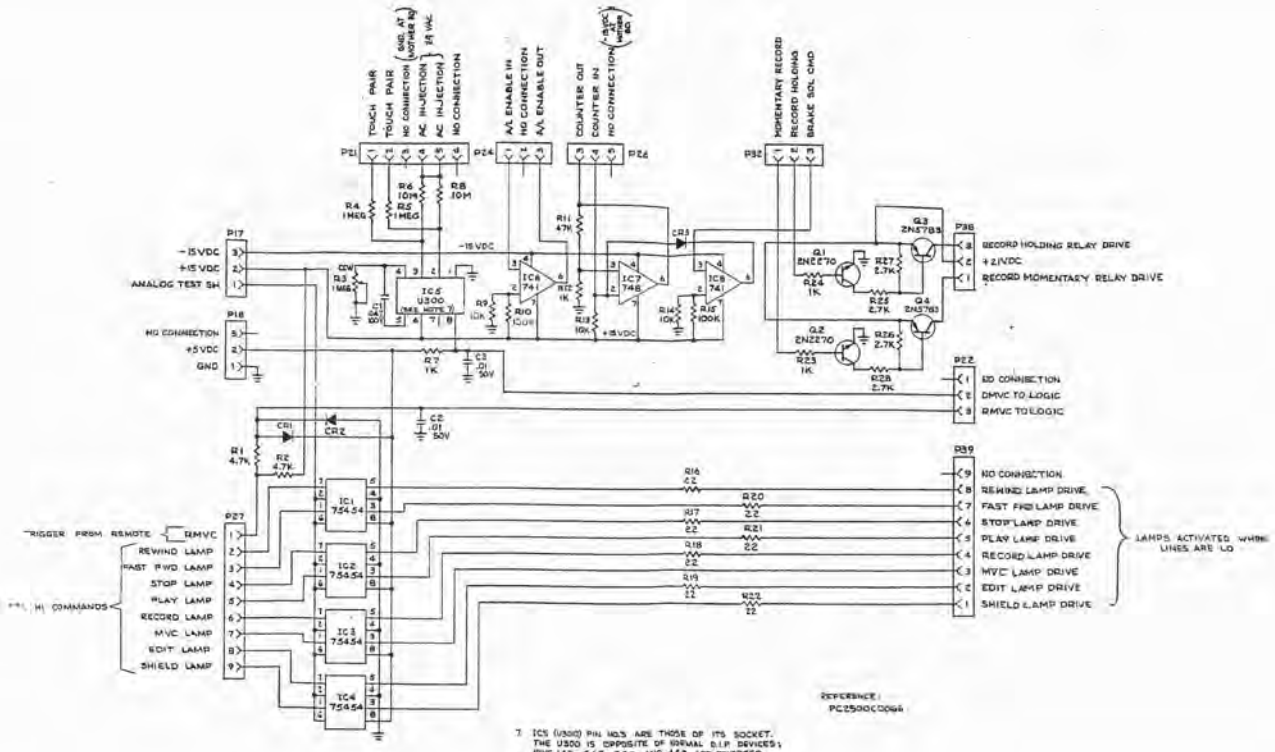
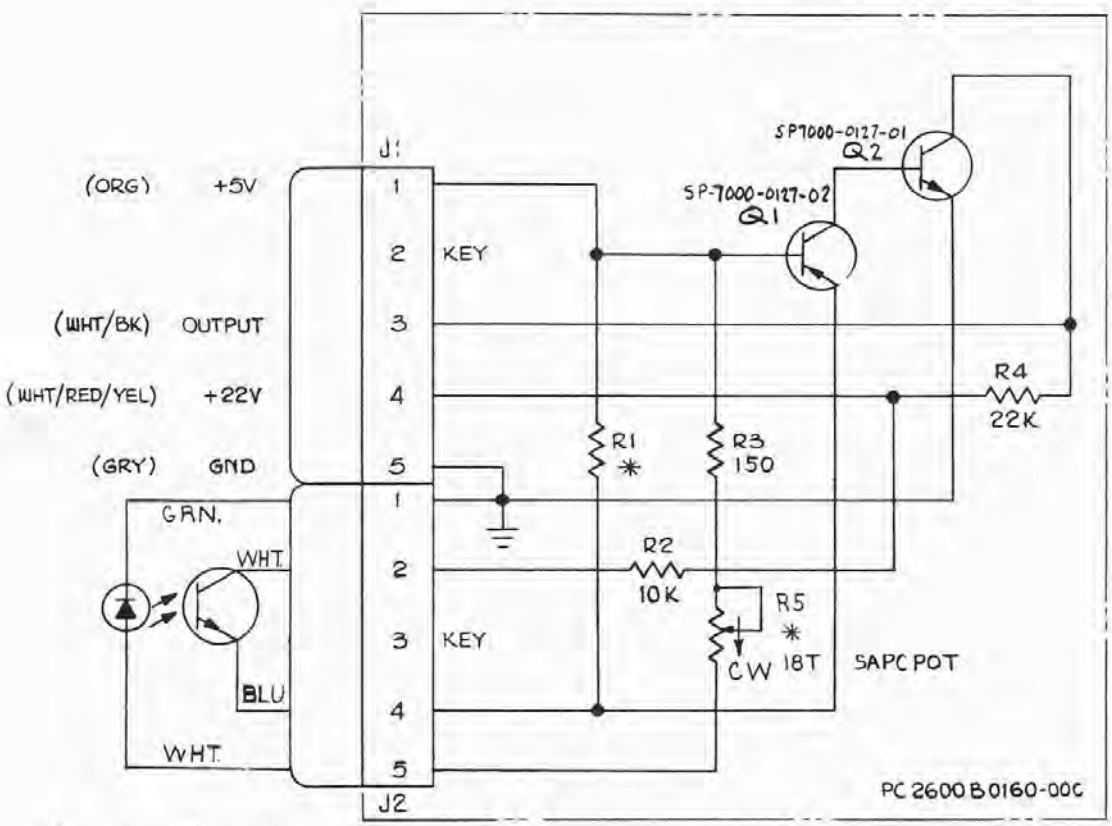


Figure 7-3. Lampdriver/Interface Board



*	-00	-10
R1	6800	1000
R5	2000	5000

NOTE:

1. ALL RESISTOR VALUES ARE IN OHMS, 1/4 W, 5%.
2. -10 FOR JH-24 TAPE MACHINE ONLY

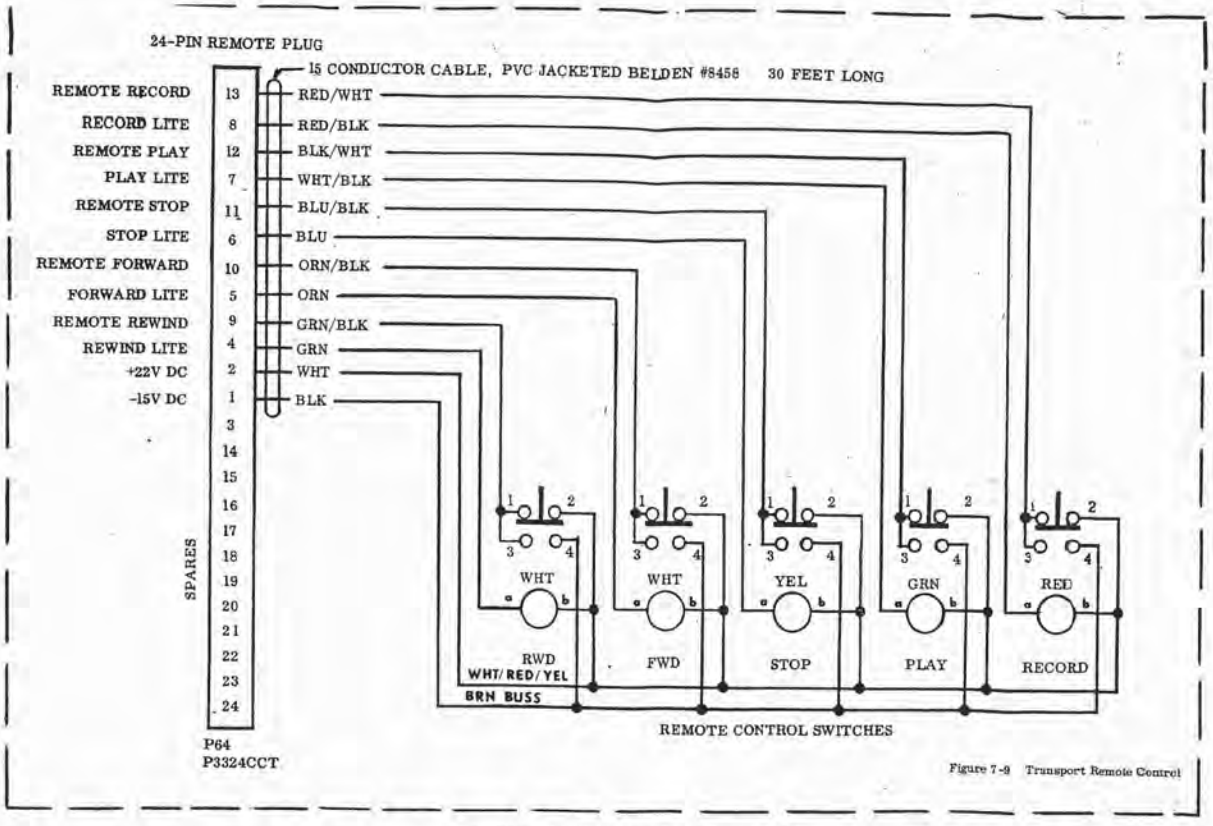
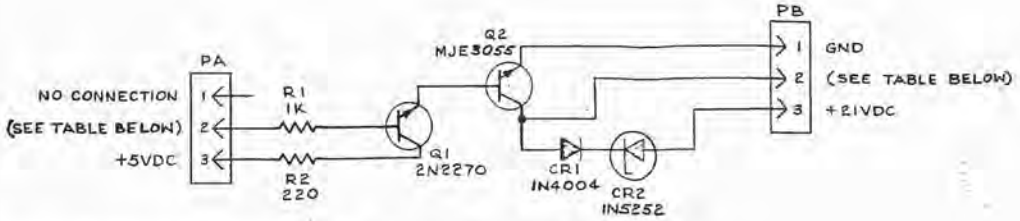


Figure 7-9 Transport Remote Control

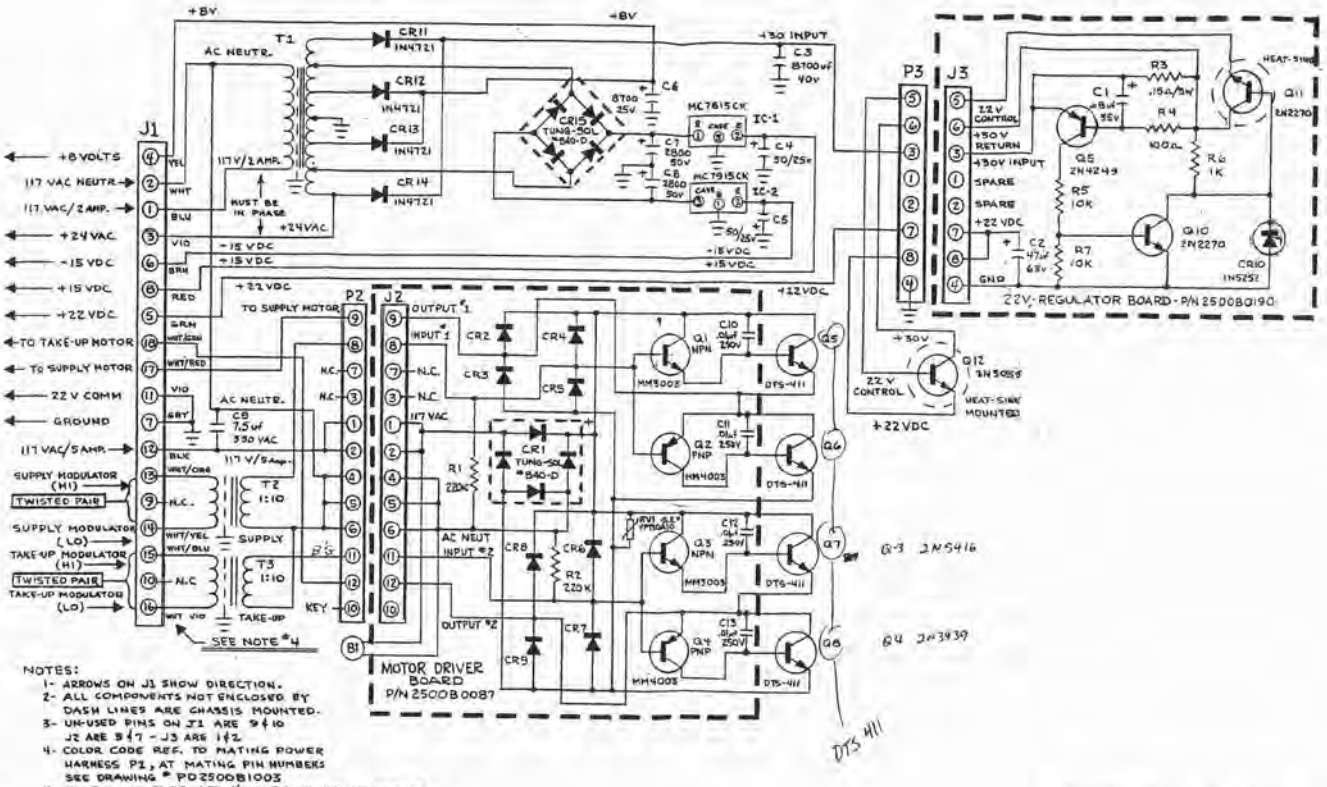
REMOTE II MOTION CONTROL SCHEMATIC



DRIVER BD	PA	PA-2 FUNCTION	PB	PB-2 FUNCTION
BRAKE SOL.	P20	BRAKE LOGIC COMM.	P16	BRAKE SOL. DRIVE
PLAY SOL.	P25	PLAY LOGIC COMMAND	P23	PLAY SOL. DRIVE
2" ROLLER SOL.	P30	2" ROLLER LOGIC COMM.	P29	2" ROLLER SOL. DRIVE
LIFTER SOL.	P35	LIFTER LOGIC COMM.	P34	LIFTER SOL. DRIVE
SHIELD SOL.	P41	SHIELD LOGIC COMM.	P37	SHIELD SOL. DRIVE

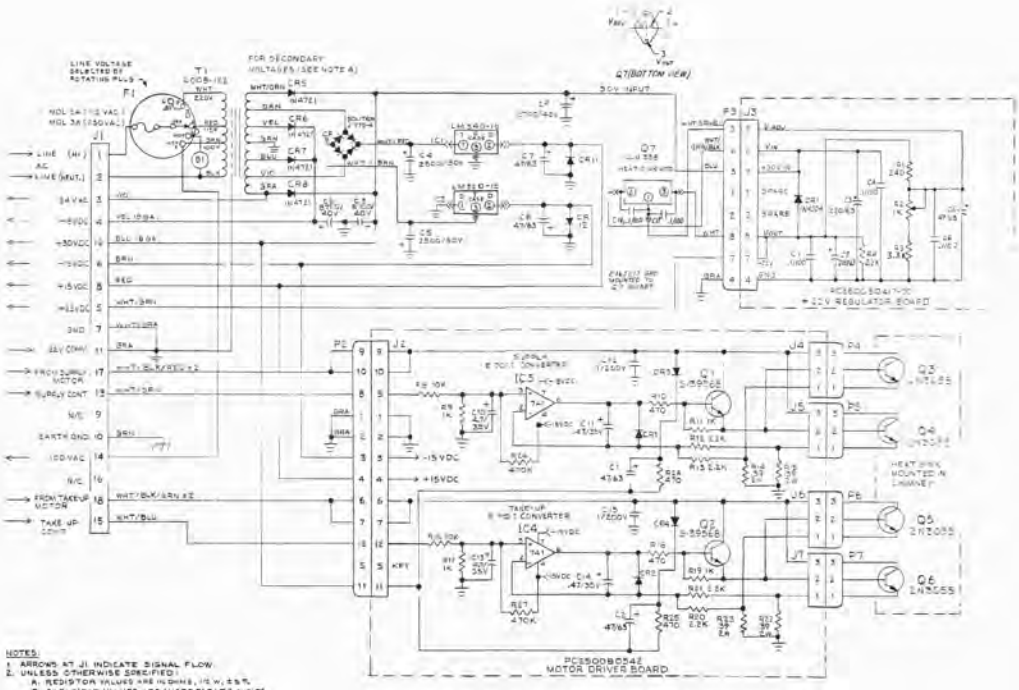
NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS IN OHMS, ± 5%, 1/2W.

Figure 7-4. Solenoid Driver Board



NOTES:
1- ARROWS ON J1 SHOW DIRECTION.
2- ALL COMPONENTS NOT ENCLOSED BY DASH LINES ARE CHASSIS MOUNTED.
3- UN-USED PINS ON J1 ARE 9 & 10
J2 ARE 5 & 7 - J3 ARE 1 & 2
4- COLOR CODE REF. TO MATING POWER HARNESS P1, AT MATING PIN NUMBERS SEE DRAWING # PD2500B1003
5- U.O.S., RESISTORS ARE ½W, 5%; VALUES ARE IN OHMS.
6- U.O.S., CAP. VALUES ARE IN MICROFARADS.
7- U.O.S., DIODES ARE IN4004

Figure 7-8. Transport Power Supply.


LINE VOLTAGE SELECTED BY ROTATING PLUG
FOR SECONDARY VOLTAGES (SEE NOTE 4)
T1
50CB-183
F1
MOL 5A (115 VAC)
MOL 3A (230VAC)
J1
LINE (HI)
AC LINE (NEUT.)
24 VAC
-15VDC
+30VDC
-15VDC
+15VDC
+22VDC
GND
22V COM
FROM SUPPLY MOTOR
SUPPLY CONT
N/C
EARTH GND
100 VAC
N/C
FROM TAKE-UP MOTOR
TAKE-UP CONT
CR5
CR6
CR7
CR8
WHT/ORN
YEL
GRN
BLU
VIO
BRN
RED
WHT/BRN
WHT/BLK/GRN #2
WHT/BLU
BRA
KEY
C2
C3
C4
2500/50V
C5
2500/50V
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
LM340-15
LM320-15
LM340-22
Q7
HEATSINK MTD
P3
J3
P2
J2
P4
J4
P5
J5
P6
J6
P7
J7
Q1
Q2
Q3
Q4
Q5
Q6
2N3055
IC3
IC4
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
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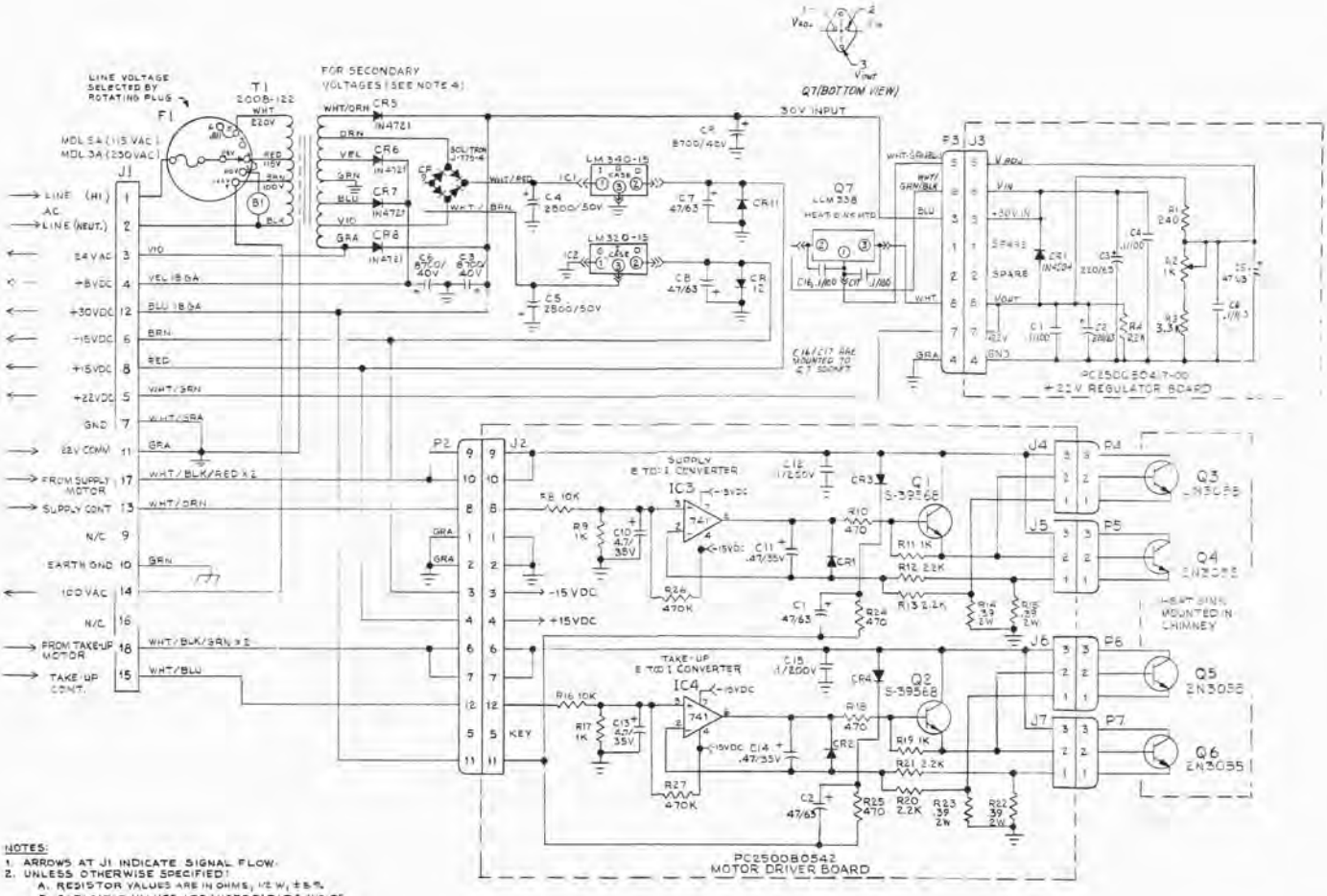
D40



NOTES:
1. ARROWS AT J1 INDICATE SIGNAL FLOW.
2. UNLESS OTHERWISE SPECIFIED:
   A. RESISTOR VALUES ARE IN OHMS, 1/2 W, ±5%.
   B. CAPACITOR VALUES ARE MICROFARADS/VOLTS
   C. DIODES ARE IN4004.
   D. WIRE GAUGE IS 22GA.
3. ALL ⏚ SYMBOLS ARE CARRIED AS INDIVIDUAL WIRES TO A COMMON TIE POINT.
4. 48 VAC = WHT/ORN & GRA LEADS.
   32 VAC = ORN & VIO. LEADS.
   18 VAC = YEL & BLU LEADS.

SECTION 6

POWER SUPPLIES

6.1 General Description

The JH-24 contains two power supplies, the JH-114PS tape transport power supply and the JH-24D audio electronics power supply. Each power supply is housed in its own chassis. All connections to the power supplies are made via multipin connectors.

Input power for both supplies comes from the transport chassis. A single power cord plugs into the transport chassis at the rear of the cabinet. From the power cord, the input voltage is wired to two fuses in parallel; one is labeled DECK, the other is labeled AUDIO. Both fuses connect to the transport's power switch. Turning the power switch to ON applies the line voltage to both power supplies.

Input power to the JH-114PS is applied at the POWER connector on the transport chassis. The regulated and unregulated outputs from the power supply also enter the transport via this connector. Input power to the JH-24D is applied at the ELECTRONICS connector. The output voltages and control signals to the audio electronics arrive at the channel electronics via cables which are part of the Bus Boards. There is one cable harness for each set of eight channels.

Figure 6-1, the power distribution diagram, shows the interconnections between the transport and both power supplies. The internal harnessing of the power supplies is also shown. For detailed information of the circuitry of the power supplies, refer to the schematics at the end of this section.

6.2 JH-114PS Power Supply

The JH-114 PS is located toward the right side of the transport cabinet as viewed from the back of the machine. The fuse holder plug on the power supply chassis plugs in to select the available line voltage. For 115 and 100vac operation, the holder must contain a 5 amp fuse; for the 230vac operation the holder must contain a 3 amp fuse.

Power for the fan is obtained from the transformer's primary. The 115vac for the fan is also brought back to the two fan outlets on the transport chassis. The cabinet fan plugs into one of these outlets.

The power supply fan is part of the chimney assembly. The entire chimney assembly can be removed from the power supply by turning the four quick release fasteners. Sufficient cable slack is provided so that the power supply can be operated with the chimney removed. The inside of the chimney assembly contains the reel motor driver printed circuit board and four heat sink mounted transistors. These are not shown in the power distribution diagram since they are part of the reel motor servo circuitry. These components are, however, shown on the power supply's schematic.

The transformer's secondary windings feed four full wave rectifier circuits and supply the 24vac signal for the MVC touch sense. The 8 volt rectified output is not regulated. It is sent to the 5 volt regulator on the mother board frame. The 8 volt output also goes to the AutoLocator III via connectors J65 and J66.

The +15 and −15 volt rectifier outputs are regulated by LM 340 and LM 320 devices respectively. These regulators are mounted on the back of the power supply chassis. The 30 volt rectifier output is sent directly to the supply and take-up reel motors (+30vdc unreg) and to the 22 volt regulator board. This printed circuit board is mounted inside the back cover of the power supply chassis. The pass transistor for the 22 volt regulator is mounted on the heat sink just below the circuit board. Over current protection is provided by this regulator. The 30 volt input to the regulator is shunted to ground if the current exceeds approximately 5 amps.

6.3 JH-24D Power Supply

The JH-24D power supply is located in the left side of the transport cabinet. It, like the JH-114PS, has a fuse holder plug which selects the available line voltage. For 100 and 115vac operation the fuse holder must contain a 6.25 amp fuse; for 220vac operation the fuse holder must contain a 4 amp fuse. Three more fuse holders are also mounted on the power supply front panel. For all voltage ranges these must be 10 amp fuses.

The audio power supply contains three printed circuit boards, the ±18 volt regulator PC board, the +24 volt regulator board, and the relay and power distribution board. The ±18 volt PC board is mounted on the chimney assembly. The chimney assembly, just as the one in the JH-114PS, removes from the power supply by turning the four quick release fasteners. Located inside the chimney are four series pass transistors mounted on heat sinks. The 24 volt regulator PC board mounts on the inside of the rear panel directly behind the chimney assembly. The pass transistors for this regulator are mounted on the rear panel. The relay board is fastened to the power supply's top cover. In order to access the relays on this board you must remove the top cover. The ±18 volt regulator receives its input from two full wave rectifiers. Each output from the rectifier is fused, these fuses are located on the front panel. Both are 10 amp fuses.

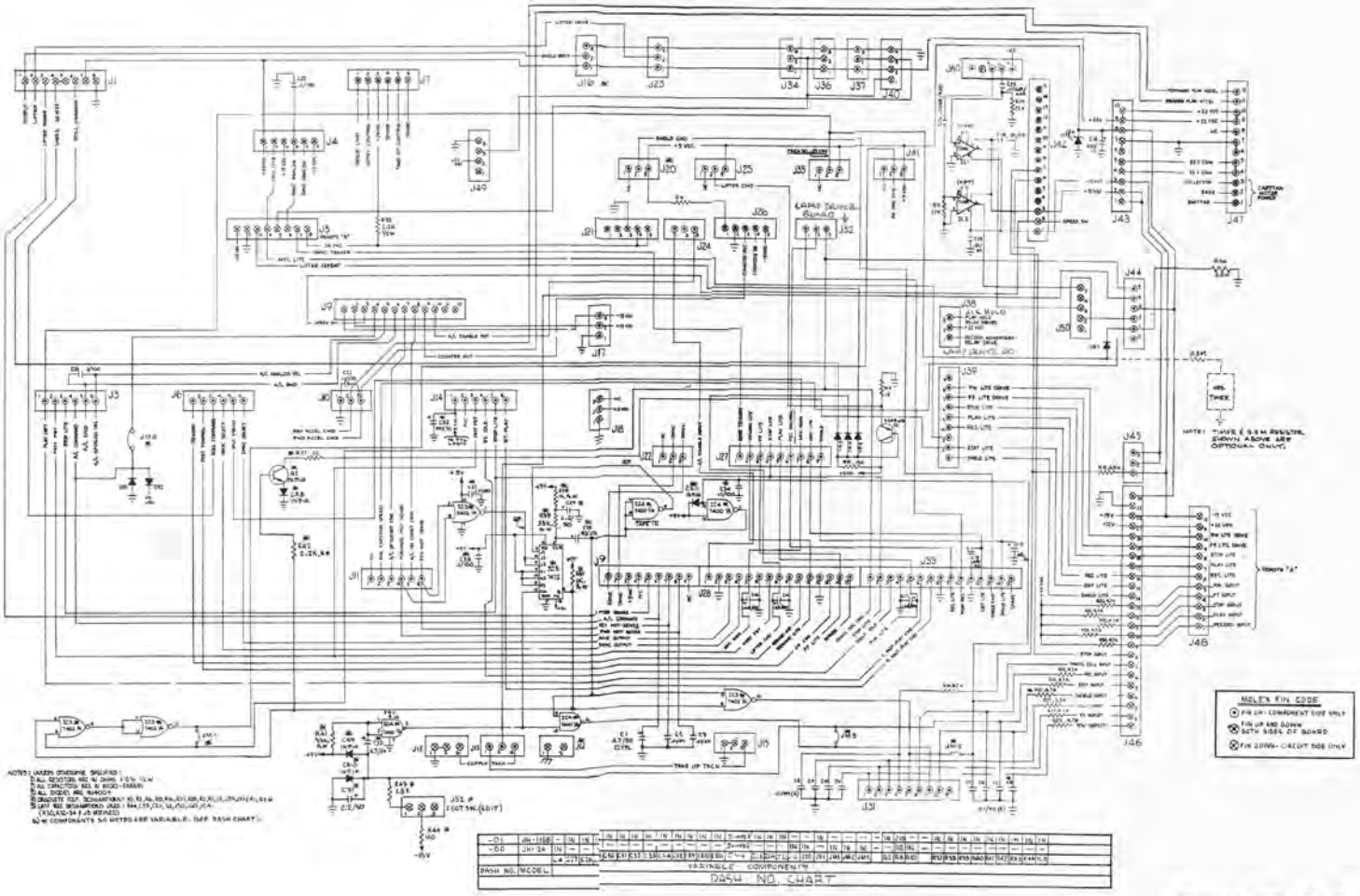
The reference voltage for the 18 volt regulators is provided by a zener diode and resistor network. Potentiometer R6, located near the center of the board, sets the reference voltage used by the comparators in both the +18 volt regulator and the −18 volt regulator. R6 adjusts both the positive and negative output voltage levels.

Both 18 volt regulators are over current limited. A current limiting transistor prevents the output current from exceeding 8 amps. Over voltage protection is provided by crowbar SCRs at both outputs. The SCRs fire if the regulated output voltage exceeds 24 volts. Once the SCR fires, the transport must be powered down to reset it.

An internal harness carries the +18 volt and −18 volt outputs to the relay and distribution board. The +18 volt output goes to the transport's speed select switch. This is the source of the high speed and low speed equalization signals. The regulated output voltages reach the audio bus boards via cable harnesses that are part of the bus board assemblies. These harnesses plug into connectors on the top cover of the power supply. The connections to all three connectors are identical.

The 24 volt regulator receives approximately 39 volts from a rectifier through a ten amp fuse located on the front panel. Its regulated output goes to the relays on the relay and distribution board. The relays, record hold and momentary record, switch the regulated 24 volts to the audio bus boards in response to signals from the Interface/Lamp Driver Board.

A zener diode and a resistor divider network provide the reference for the comparator in the regulator. Potentiometer R2, located near the bottom of the circuit board, adjusts the regulated output voltage. The ±18 volt chimney assembly must be removed to reach the voltage adjustment.



Transport Mother Board
SC2500E0085 rev AE

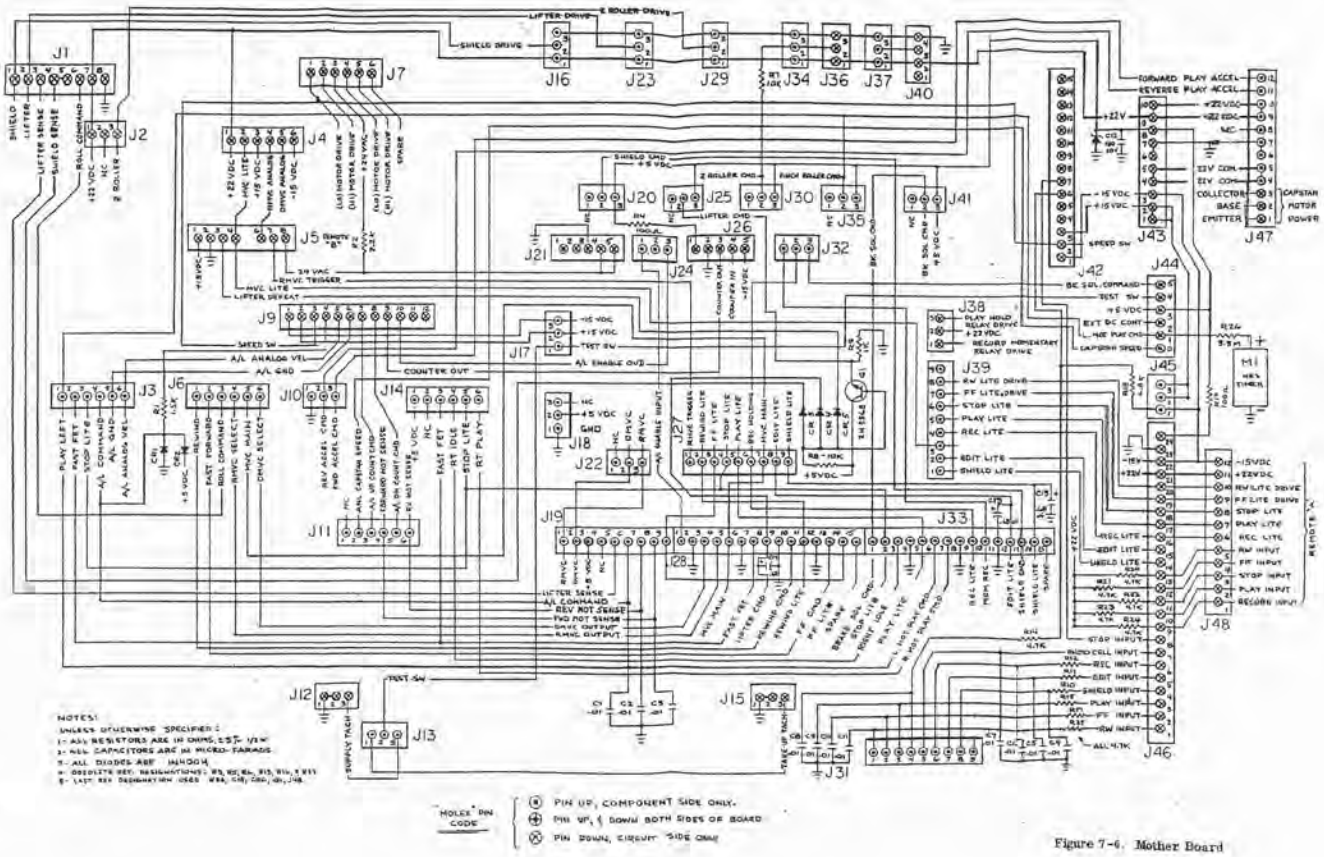
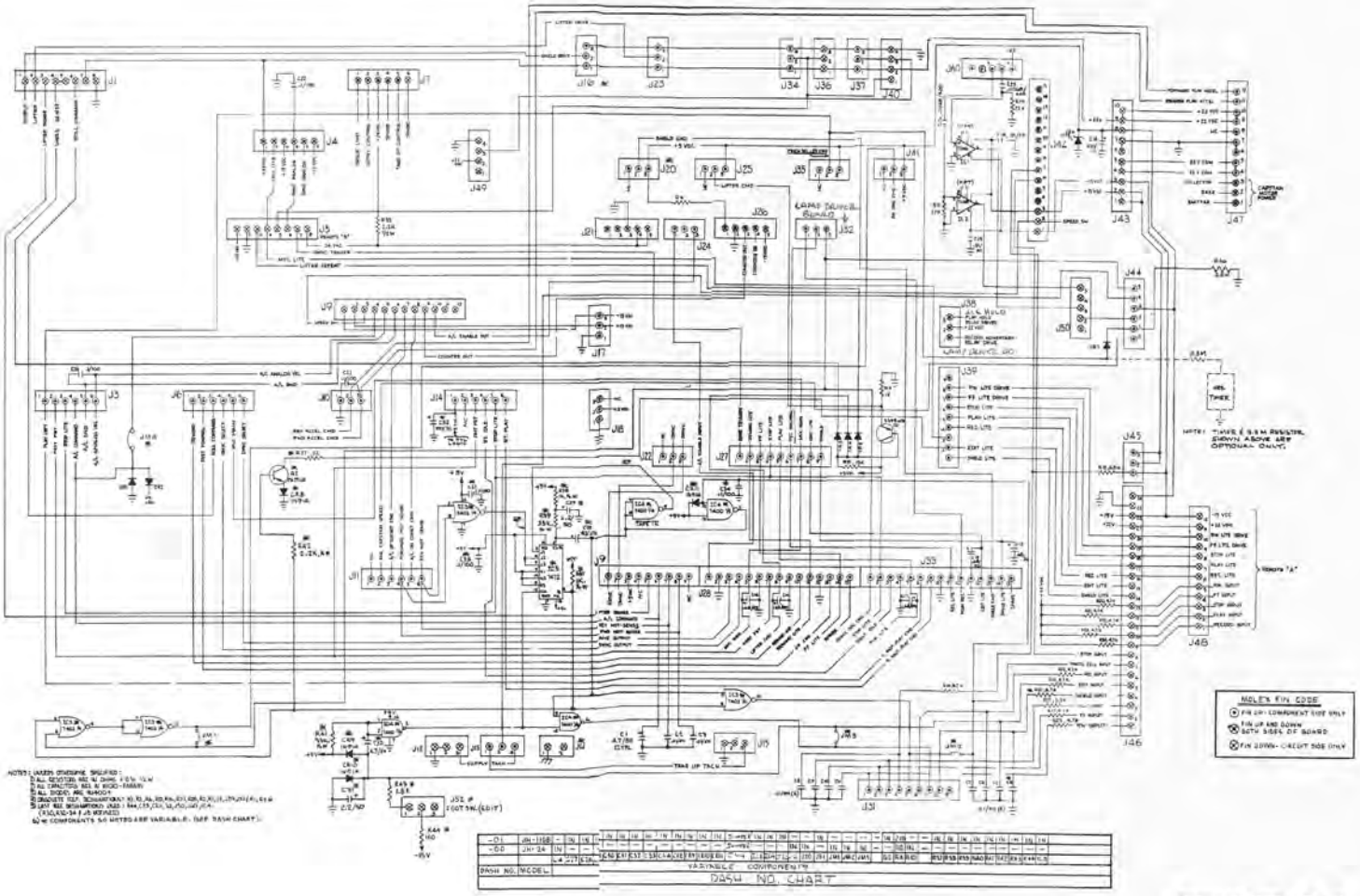
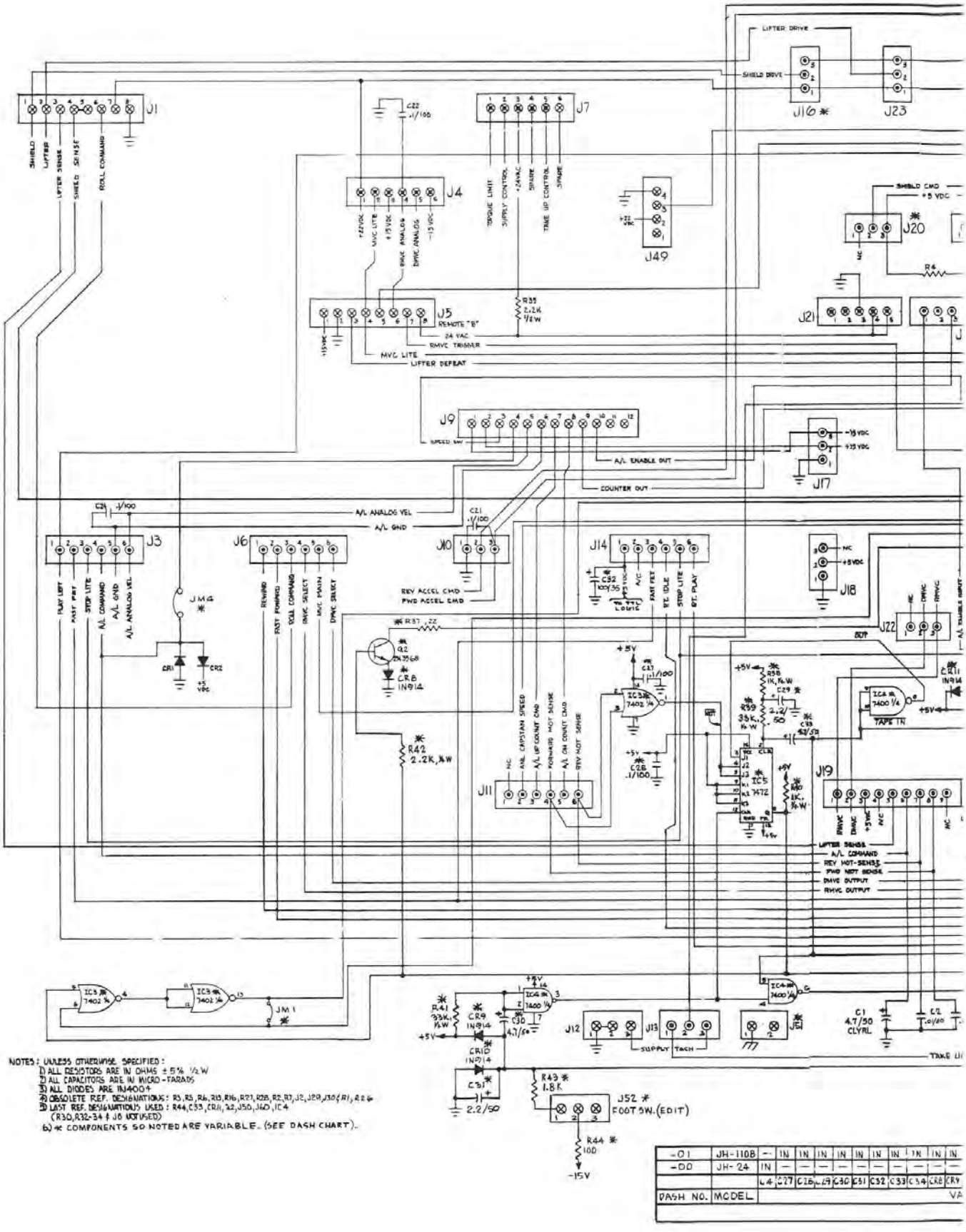


Figure 7-6. Mother Board



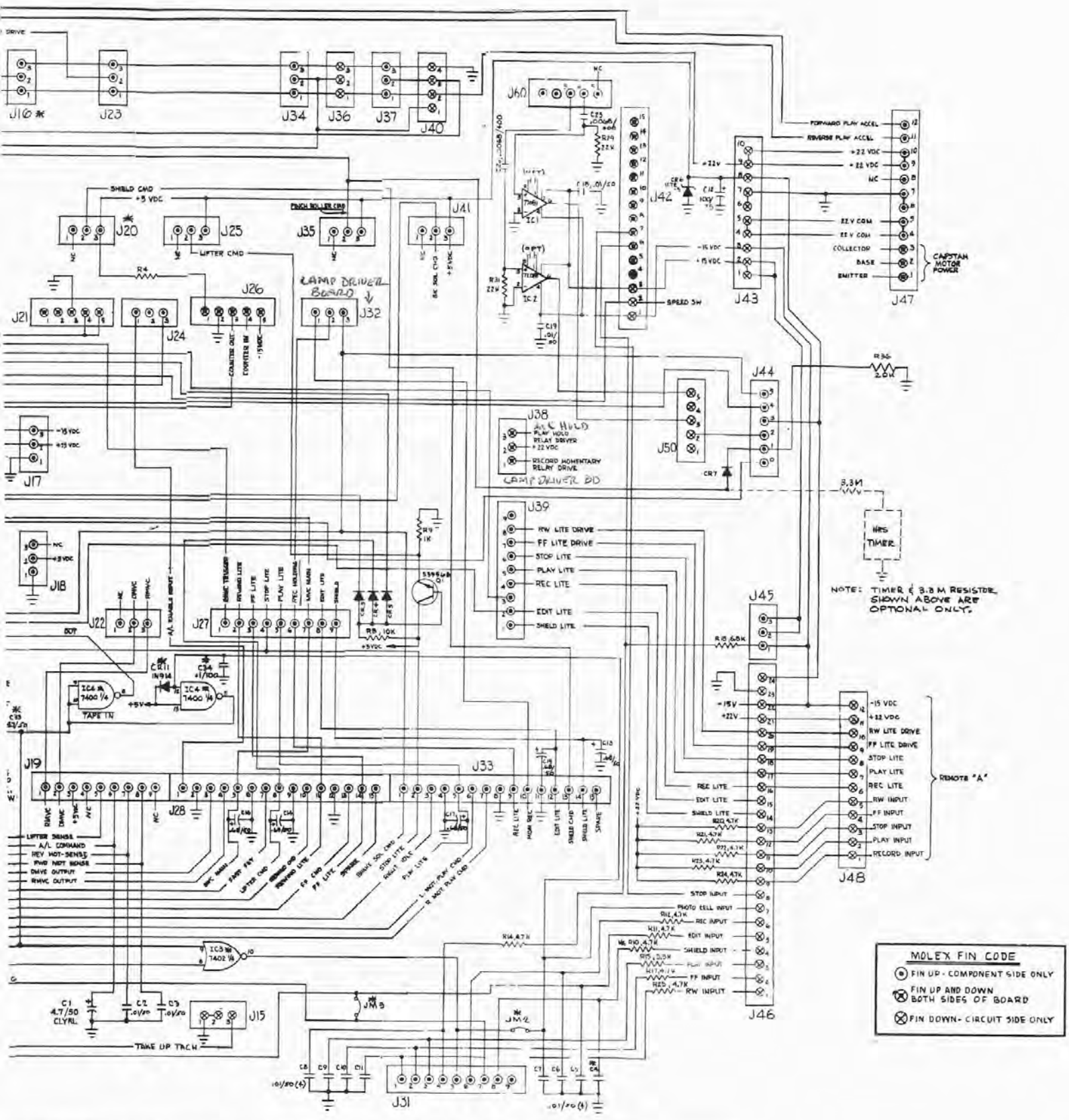
Transport Mother Board
SC2500E0085 rev AE



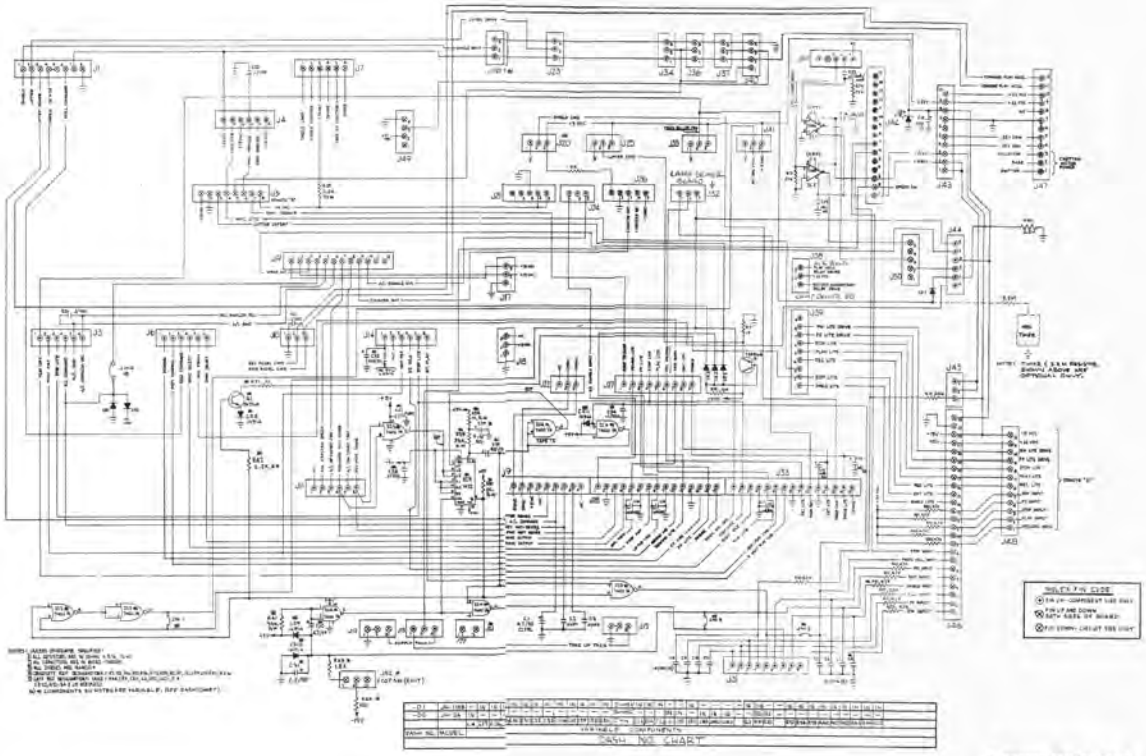
NOTES: UNLESS OTHERWISE SPECIFIED:
1) ALL RESISTORS ARE IN OHMS ± 5% 1/2 W
2) ALL CAPACITORS ARE IN MICRO-FARADS
3) ALL DIODES ARE IN4004
4) OBSOLETE REF. DESIGNATIONS: R3, R5, R6, R15, R16, R27, R28, R2, R7, J2, J29, J30, R1, R24
5) LAST REF. DESIGNATION(S) USED: R44, C33, CR11, J2, J50, J60, IC4
(R30, R32-34 & J6 NOT USED)
6) * COMPONENTS SO NOTED ARE VARIABLE. (SEE DASH CHART).

-01	JH-1108	-	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
-00	JH-24	IN	–	–	–	–	–	–	–	–	–	–	–
		L4	C27	C28	L9	C30	C31	C32	C33	C34	CR8	CR9	
DASH NO.	MODEL												VA

XPORT MOTHER BOARD


J10
J23
J34
J36
J37
J40
J60
J42
J43
J47
J20
J25
J35
J41
J21
J24
J26
J32
J44
J38
J50
J17
J18
J22
J27
J39
J45
J46
J48
J19
J33
J28
J31
J15
SHIELD CMD
+5 VDC
LIFTER CMD
LAMP DRIVER BOARD
FORWARD PLAY ACCEL
REVERSE PLAY ACCEL
+22 VDC
+22 VDC
NC
22 V COM
22 V COM
COLLECTOR
BASE
EMITTER
CAPSTAN MOTOR POWER
-15 VDC
+15 VDC
SPEED SW
+22v
R36
2.0M
3.3M
HRS TIMER
NOTE: TIMER & 3.3 M RESISTOR SHOWN ABOVE ARE OPTIONAL ONLY.
RW LITE DRIVE
FF LITE DRIVE
STOP LITE
PLAY LITE
REC LITE
EDIT LITE
SHIELD LITE
REMOTE "A"
RW INPUT
FF INPUT
STOP INPUT
PLAY INPUT
RECORD INPUT
PHOTO CELL INPUT
REC INPUT
EDIT INPUT
SHIELD INPUT
TAPE IN
TAKE UP TACH
LIFTER SENSE
A/L COMMAND
REV MOT-SENSE
FWD MOT SENSE
DRIVE OUTPUT
RWVC OUTPUT
JM3
JM2
MOLEX PIN CODE
PIN UP - COMPONENT SIDE ONLY
PIN UP AND DOWN BOTH SIDES OF BOARD
PIN DOWN - CIRCUIT SIDE ONLY

| | | |



Transport Mother Board
SC2500E0085 rev AE