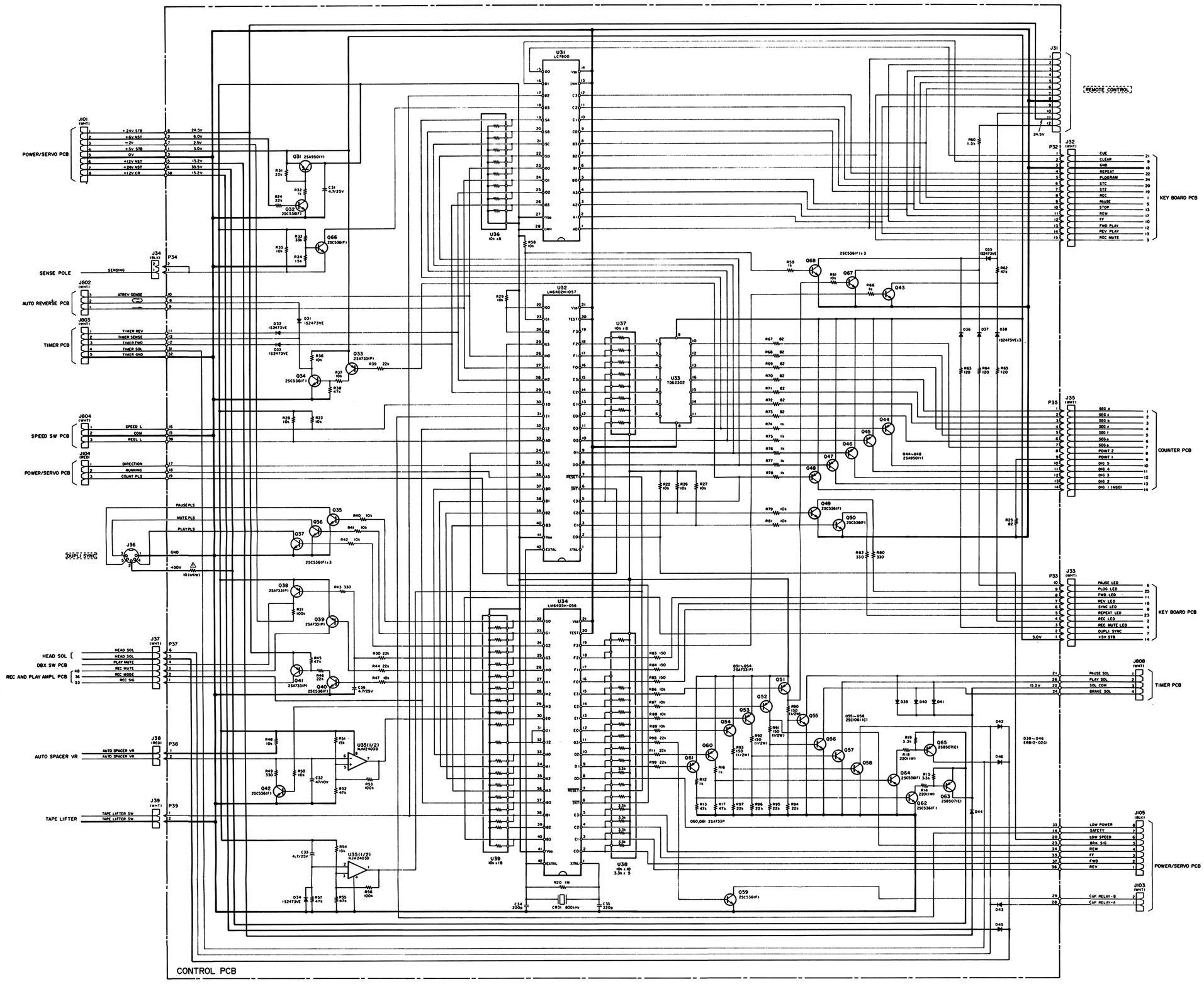
X-1000R

Stereo Tape Deck



NOTES

1. Schematic diagram shown for left channel except for some of the components.
2. All resistors are ¼ watt, ±5%, unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
3. All capacitor values are in microfarads (p = picofarads).
4. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the TEAC parts list and ensure exact replacement.
5. Voltage and level values are for reference only.
   0dB = 0.775V
   Indicated values are those existing when the meter indicates 0VU.
6. ▭ : front panel indication
7. ┄┄ : rear panel incication
8. ——— +B power supply circuit.

POWER / SERVO PCB

TENSION SENSOR PCB

TENSION SENSOR PCB

CONTROL PCB

ROLLER SENSOR PCB

VR PCB

REW TENSION ADJ.

FF TENSION ADJ.

FWD PLAY TENSION ADJ.

REV PLAY TENSION ADJ.

FF, REW SEED ADJ.

WHEN TAPE STOP : L
WHEN BOTH 10" REELS AN EQUAL AMOUNT OF TAPE, TAPE TENSION 50g.

TRANSISTOR PCB

TRANSISTOR PCB

REEL MOTOR (L)

REEL MOTOR (R)

CAPSTAN SERVO PCB

CONTROL PCB

REC AND PLAY AMPL PCB

CONTROL PCB

TRANSISTOR (B) PCB

DIODE PCB

U103	HD14584B	Q102	2SC1318(S)	Q201	2SC1815(GR)	D101 ~ D106	ERB12-02GI	D201 ~ D213	IS2473HJ
U104 , U105	HD14011B	Q103	2SC536(F)	Q202	2SA1015(GR)	D108	EQA01-06S	D214	ERB12-02GI
		Q151	2SB507(E)	Q203	2SC1815(GR)	D109 , D110	ERB12-02GI	D215, D216	IS2473HJ
U201 ~ U203	LM2904N	Q152	2SC1318(S)	Q204	2SA1015(GR)			D217	ERB12-02GI
U204	HD14066B	Q154	2SB507(E)	Q205	2SC1815(GR)			D218, D219	WZ90
U205 , U206	TD62504P	Q155	2SC1318(S)	Q206	2SA1015(GR)			D220	ERB12-02GI
		Q156 , Q157	2SA1015(GR)	Q207	2SK68(A)			D221 ~ D224	IS2473HJ
		Q158 , Q159	2SC1815(GR)						

VOLTAGE SELECTOR (TOP VIEW)

JAPAN

AUSTRALIA

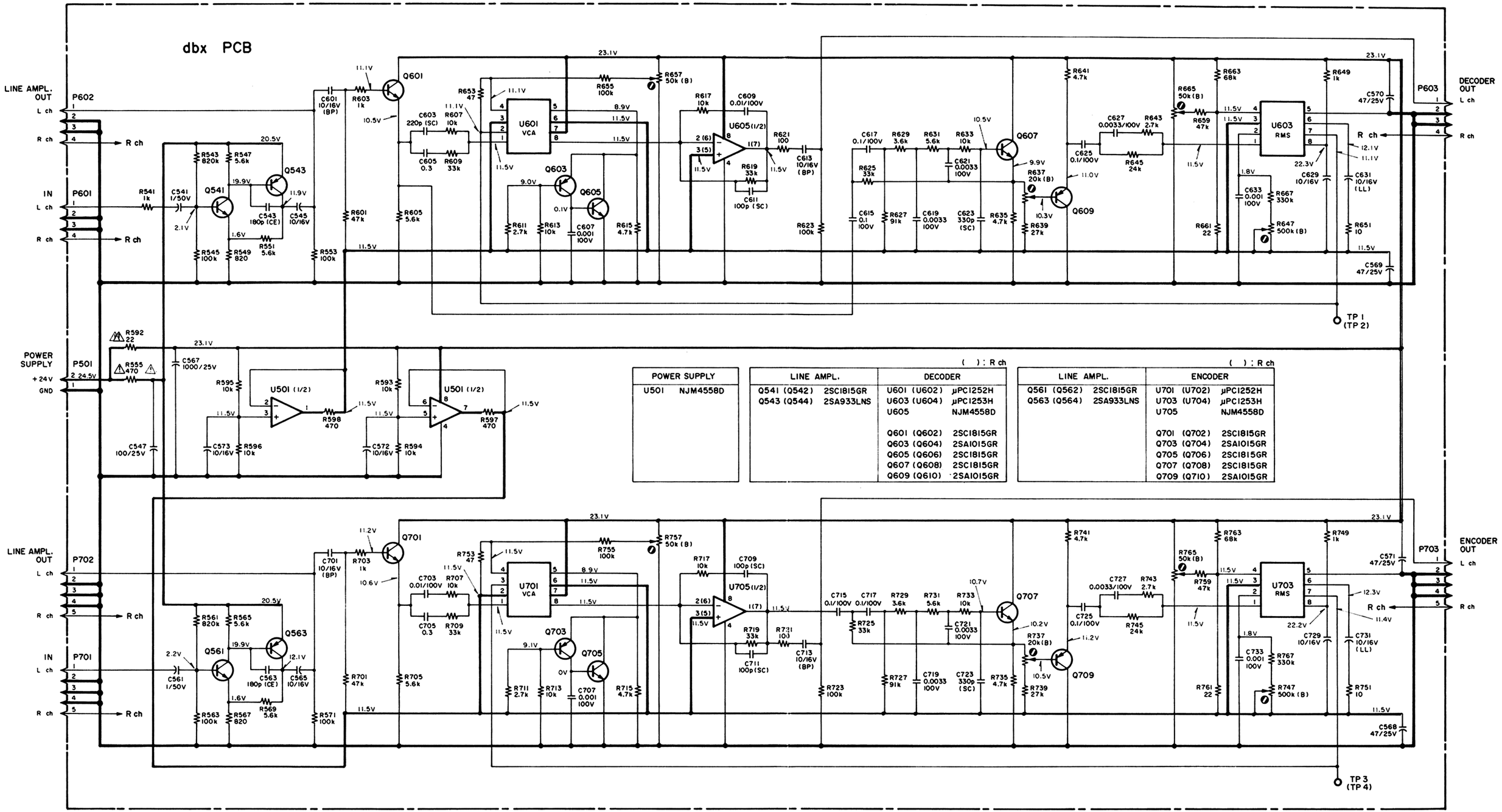
U.S.A., CANADA

GENERAL EXPORT

U.K.

EUROPE

FUSE PCB



POWER SUPPLY	
U501	NJM4558D

( ) : R ch

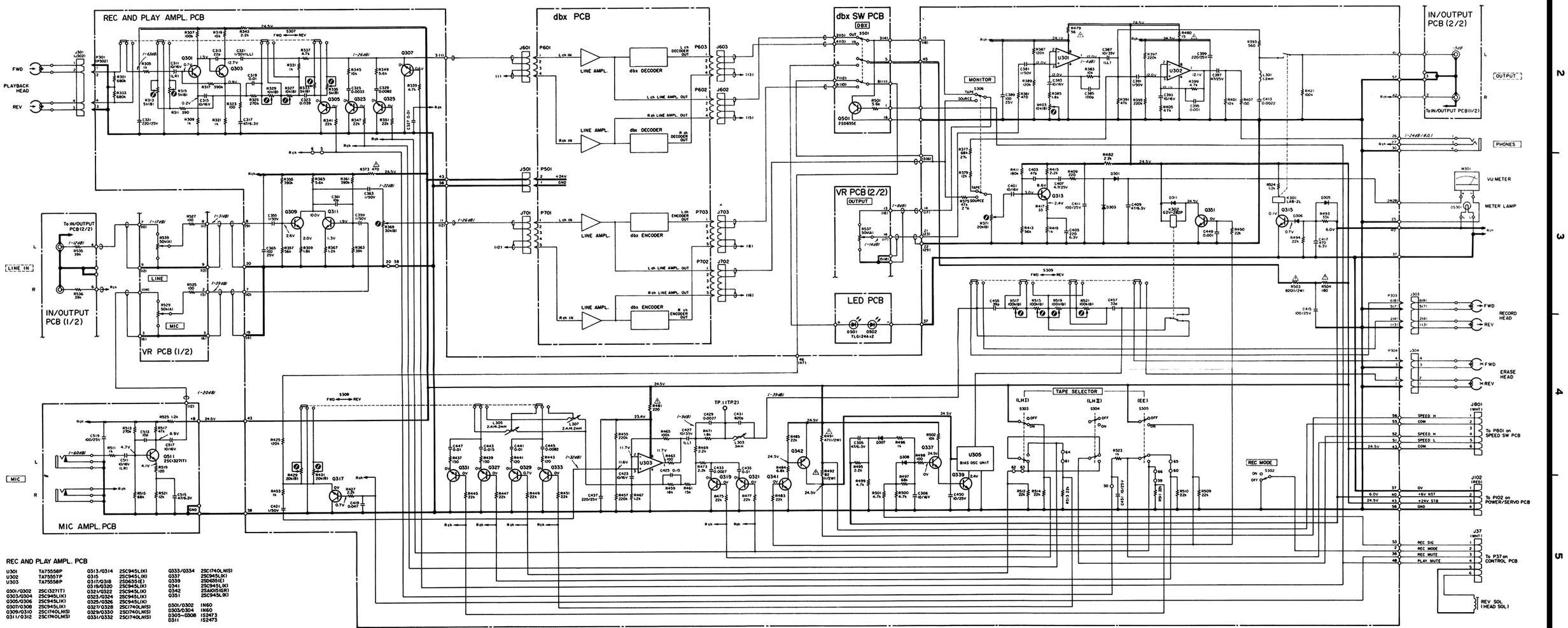
LINE AMPL.		DECODER	
Q541 (Q542)	2SC1815GR	U601 (U602)	μPC1252H
Q543 (Q544)	2SA933LNS	U603 (U604)	μPC1253H
		U605	NJM4558D
		Q601 (Q602)	2SC1815GR
		Q603 (Q604)	2SA1015GR
		Q605 (Q606)	2SC1815GR
		Q607 (Q608)	2SC1815GR
		Q609 (Q610)	2SA1015GR

( ) : R ch

LINE AMPL.		ENCODER	
Q561 (Q562)	2SC1815GR	U701 (U702)	μPC1252H
Q563 (Q564)	2SA933LNS	U703 (U704)	μPC1253H
		U705	NJM4558D
		Q701 (Q702)	2SC1815GR
		Q703 (Q704)	2SA1015GR
		Q705 (Q706)	2SC1815GR
		Q707 (Q708)	2SC1815GR
		Q709 (Q710)	2SA1015GR

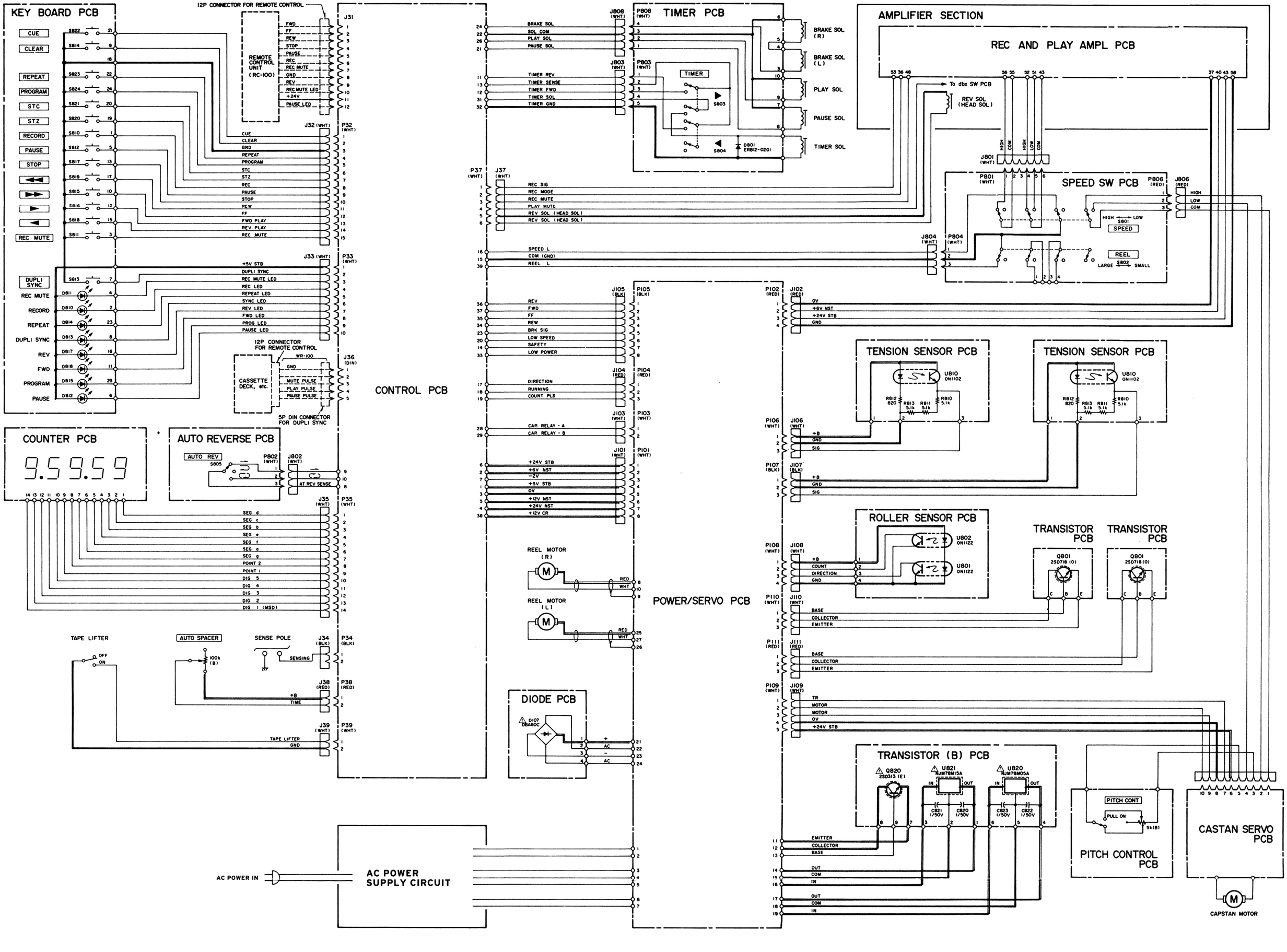
NOTES

1. Servo-Amp voltage values are reference values measured in PLAY mode at 19 cm/sec (7½ ips) and are subject to variation according to setting of sensor output.
2. Voltage values, depending on circuit section, may not always conform to indicated values during F.F./REW modes.
3. All resistors are ¼ watt, ±5%, unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
4. All capacitor values are in microfarads (p = picofarads).
5. ⚠ Parts markedwith this sign are safety critical components. They must always be replaced with identical components-refer to the TEAC parts list and ensure exact replacement.
6. [ ] : front panel indication
7. [ ] : rear panel indication
8. ——— +B power supply circuit.



REC AND PLAY AMPL. PCB

U301	TA75558P	Q313/Q314	2SC945L(K)	Q333/Q334	2SC1740L(N,S)
U302	TA75557P	Q315	2SC945L(K)	Q337	2SC945L(K)
U303	TA75558P	Q317/Q318	2SD655(E)	Q339	2SD655(E)
		Q319/Q320	2SC945L(K)	Q341	2SC945L(K)
Q301/Q302	2SC1327(T)	Q321/Q322	2SC945L(K)	Q342	2SA1015(GR)
Q303/Q304	2SC945L(K)	Q323/Q324	2SC945L(K)	Q351	2SC945L(K)
Q305/Q306	2SC945L(K)	Q325/Q326	2SC945L(K)		
Q307/Q308	2SC945L(K)	Q327/Q328	2SC1740L(N,S)	D301/D302	IN60
Q309/Q310	2SC1740L(N,S)	Q329/Q330	2SC1740L(N,S)	D303/D304	IN60
Q311/Q312	2SC1740L(N,S)	Q331/Q332	2SC1740L(N,S)	D305~D308	IS2473
				D311	IS2473


KEY BOARD PCB
CUE
CLEAR
REPEAT
PROGRAM
STC
STZ
RECORD
PAUSE
STOP
REC MUTE
DUPLI SYNC
REC MUTE
RECORD
REPEAT
DUPLI SYNC
REV
FWD
PROGRAM
PAUSE
12P CONNECTOR FOR REMOTE CONTROL
REMOTE CONTROL UNIT (RC-100)
FWD
FF
REW
STOP
PAUSE
REC
REC MUTE
GND
REV
REC MUTE LED
+24V
PAUSE LED
J31
J32 (WHT)
P32 (WHT)
CUE
CLEAR
GND
REPEAT
PROGRAM
STC
STZ
REC
PAUSE
STOP
REW
FF
FWD PLAY
REV PLAY
REC MUTE
J33 (WHT)
P33 (WHT)
+5V STB
DUPLI SYNC
REC MUTE LED
REC LED
REPEAT LED
SYNC LED
REV LED
FWD LED
PROG LED
PAUSE LED
12P CONNECTOR FOR REMOTE CONTROL
CASSETTE DECK, etc.
WR-100
GND
MUTE PULSE
PLAY PULSE
PAUSE PULSE
J36 (DIN)
5P DIN CONNECTOR FOR DUPLI SYNC
COUNTER PCB
9.59.59
AUTO REVERSE PCB
AUTO REV
S805
P802 (WHT)
J802 (WHT)
AT REV SENSE
J35 (WHT)
P35 (WHT)
SEG d
SEG c
SEG b
SEG e
SEG f
SEG a
SEG g
POINT 2
POINT 1
DIG 5
DIG 4
DIG 3
DIG 2
DIG 1 (MSD)
TAPE LIFTER
OFF
ON
AUTO SPACER
100k (B)
SENSE POLE
SENSING
J34 (BLK)
P34 (BLK)
J38 (RED)
P38 (RED)
+B
TIME
J39 (WHT)
P39 (WHT)
TAPE LIFTER
GND
CONTROL PCB
J808 (WHT)
P808 (WHT)
TIMER PCB
BRAKE SOL
SOL COM
PLAY SOL
PAUSE SOL
J803 (WHT)
P803 (WHT)
TIMER REV
TIMER SENSE
TIMER FWD
TIMER SOL
TIMER GND
TIMER
S803
S804
D801 ERB12-02G1
BRAKE SOL (R)
BRAKE SOL (L)
PLAY SOL
PAUSE SOL
TIMER SOL
AMPLIFIER SECTION
REC AND PLAY AMPL PCB
To dbx SW PCB
REV SOL (HEAD SOL)
J801 (WHT)
P801 (WHT)
SPEED SW PCB
P806 (RED)
J806 (RED)
HIGH
LOW
COM
S801
SPEED
REEL
LARGE
S802
SMALL
J804 (WHT)
P804 (WHT)
P37 (WHT)
J37 (WHT)
REC SIG
REC MODE
REC MUTE
PLAY MUTE
REV SOL (HEAD SOL)
REV SOL (HEAD SOL)
SPEED L
COM (GND)
REEL L
J105 (BLK)
P105 (BLK)
REV
FWD
FF
REW
BRK SIG
LOW SPEED
SAFETY
LOW POWER
J104 (RED)
P104 (RED)
DIRECTION
RUNNING
COUNT PLS
J103 (WHT)
P103 (WHT)
CAP. RELAY - A
CAP. RELAY - B
J101 (WHT)
P101 (WHT)
+24V STB
+6V NST
−2V
+5V STB
0V
+12V NST
+24V NST
+12V CR
REEL MOTOR (R)
REEL MOTOR (L)
RED
WHT
DIODE PCB
D107 D6A60C
AC POWER IN
AC POWER SUPPLY CIRCUIT
POWER/SERVO PCB
P102 (RED)
J102 (RED)
0V
+6V NST
+24V STB
GND
TENSION SENSOR PCB
U810 ON1102
R812 820
R813 5.1k
R811 5.1k
R810 5.1k
P106 (WHT)
J106 (WHT)
+B
GND
SIG
P107 (BLK)
J107 (BLK)
ROLLER SENSOR PCB
U802 ON1122
U801 ON1122
P108 (WHT)
J108 (WHT)
+B
COUNT
DIRECTION
GND
TRANSISTOR PCB
Q801 2SD718 (O)
C
B
E
P110 (WHT)
J110 (WHT)
BASE
COLLECTOR
EMITTER
P111 (RED)
J111 (RED)
P109 (WHT)
J109 (WHT)
TR
MOTOR
MOTOR
0V
+24V STB
TRANSISTOR (B) PCB
Q820 2SD313 (E)
U821 NJM78M15A
U820 NJM78M05A
IN
OUT
C821 1/50V
C820 1/50V
C823 1/50V
C822 1/50V
EMITTER
COLLECTOR
BASE
OUT
COM
IN
PITCH CONT
PULL ON
5k(B)
PITCH CONTROL PCB
CASTAN SERVO PCB
CAPSTAN MOTOR