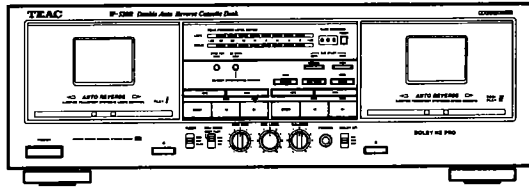


TEAC®



SERVICE MANUAL

W-520R

Stereo Double Cassette Deck

1 SPECIFICATIONS

Track System : 4-Track, 2-Channel Stereo

Heads : 1 Playback (Rotary, DECK I) 1 Erase and
1 Record/Playback (Rotary, DECK II)

Type of Tape :

Cassette tape C-60 and C-90 (Philips type)

Tape Speed :

4.76 cm/sec (1-7/8 ips), 9.5 cm/sec (3-3/4 ips) (High speed dubbing only)

Motors : 4 ; 2 DC servo motors and 2 DC motors
(2 ea. deck)

Wow and Flutter (WRMS) : 0.06 %

Frequency response (Overall, -20dB) :

25-19,000 Hz, Metal

25-18,000 Hz, CrO₂

25-17,000 Hz, Normal

Signal - to - Noise Ratio (Overall) :

59 dB (NR off, 3% THD level, Weighted)

69 dB (Dolby B NR on, over 5 kHz)

79 dB (Dolby C NR on, over 1 kHz)

Fast Winding Time :

Approximately 110 seconds for C-60

Line Input : 87 mV, 50 k ohms

Output : Line ; 0.46 V for load impedance of 50 k ohms
or more

Headphones ; 8 ohms

Power Requirements :

120 V AC, 60 Hz, 21 W (U.S.A./Canada model)

240 V AC, 50 Hz, 25 W (Australian model)

Dimensions (W × H × D) :

435 × 147 × 277 mm

(17-1/8" × 5-13/16" × 10-7/8")

Weight (net) : 4.9 kg (10-13/16 lbs.)

Standard Accessories :


Input-output connection cords

● Specifications were determined using metal tape except as noted.

● Improvements may result in specification or feature changing without notice.

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation.

HX Pro originated by Bang & Olufsen.

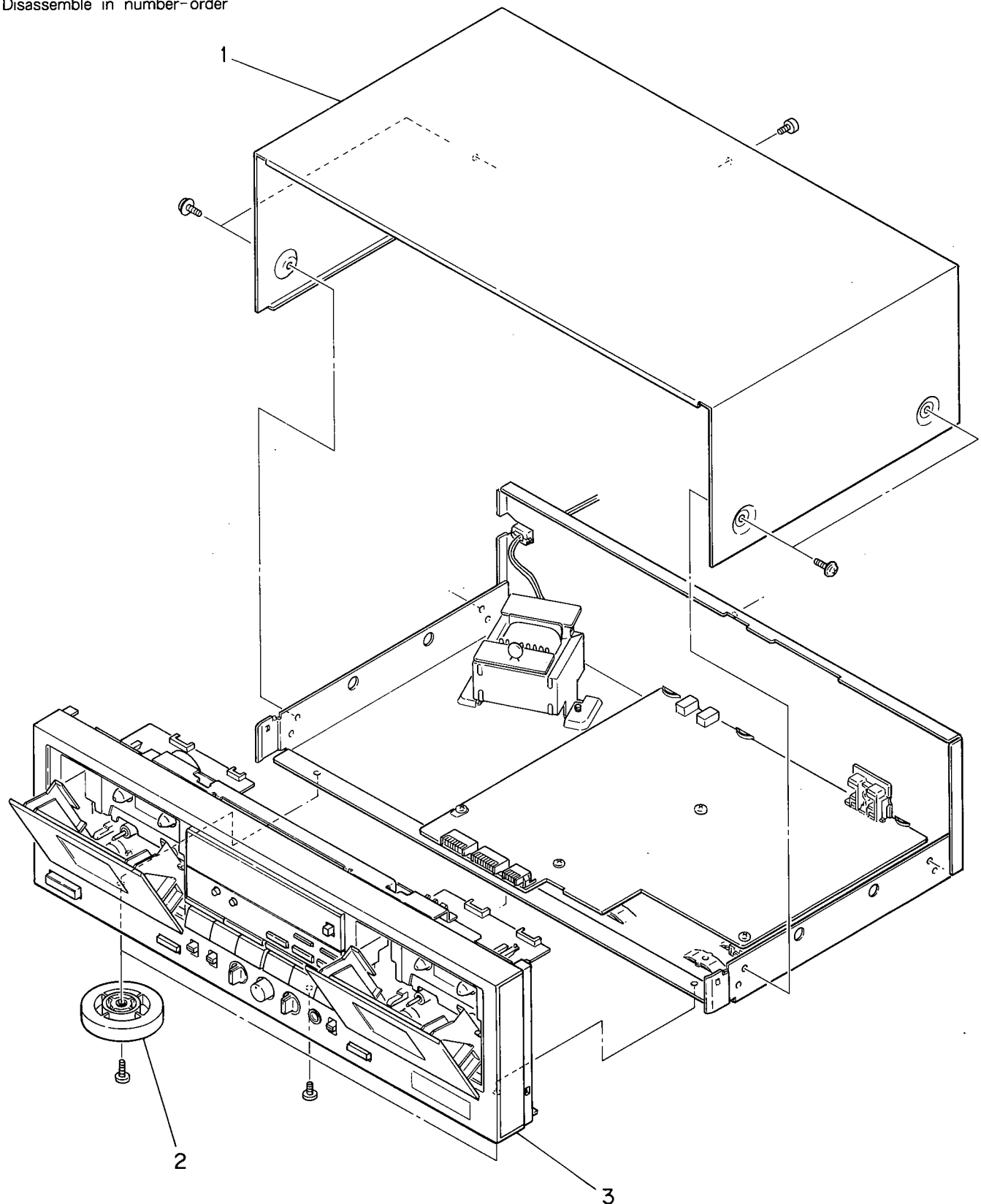
* "DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

CAUTION

⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components refer to the appropriate parts list and ensure exact replacement.

2 CASE AND FRONT PANEL REMOVAL

Disassemble in number-order



3 ADJUSTMENT AND CHECKS

3-1 MECHANICAL ADJUSTMENT AND CHECKS

3-1-1 Wow and flutter (playback method)

Note : In both FWD and REV play modes, these measurements should be made at the beginning, middle, and the end of the tape.

- 1) Connect a wow-and-flutter meter to the deck as shown in Fig. 3-1.
- 2) Load and play a TEAC MTT-111 test tape.
- 3) Check that the readings on the wow-and-flutter meter are as follows.

Specifications : 0.15 % JIS WRMS

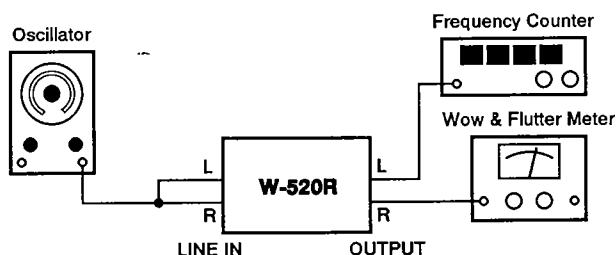


Fig. 3-1

3-1-2 Tape speed

- 1) Connect a frequency counter to the deck as shown in Fig. 3-1.
- 2) Simply press POWER switch to ON to rotate the motor, then continue the motor rotation for approx. 1 minute for warm-up.
- 3) As soon as the warm-up finishes, load a TEAC MTT-111 test tape with a 3,000Hz test tone and play in FWD direction the end of the test tape.
- 4) Adjust each variable resistor to get the following figures.

	Adjustment point		Adjustment value (Hz)
DECK I	HIGH speed	R03	6,020~6,040
	LOW speed	R01	3,010~3,020
DECK II	HIGH speed	R04	6,000~6,020
	LOW speed	R02	3,000~3,010

☐ HIGH speed : Test pin P4 shorted

- 5) In play mode, check that the following figures are obtained at the beginning and at the end of the tape.

	Speed deviation	Speed drifting
HIGH speed	6,000 ± 150Hz	Within 90Hz
LOW speed	3,000 ± 75Hz	Within 45Hz

3-1-3 Reel torque

- 1) Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values.

Take-up :

35 to 75g · cm (0.55 to 1.04 oz · inch)

Supply :

2.0 to 6.0g · cm (0.028 to 0.083 oz · inch)

F.F/REW :

70 to 160g · cm (0.97 to 2.22 oz · inch)

3-1-4 Lubrication

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.

Oil : TEAC spindle oil (from TEAC TZ-255 oil kit), Mobil D. T. E. oil light, or equivalent

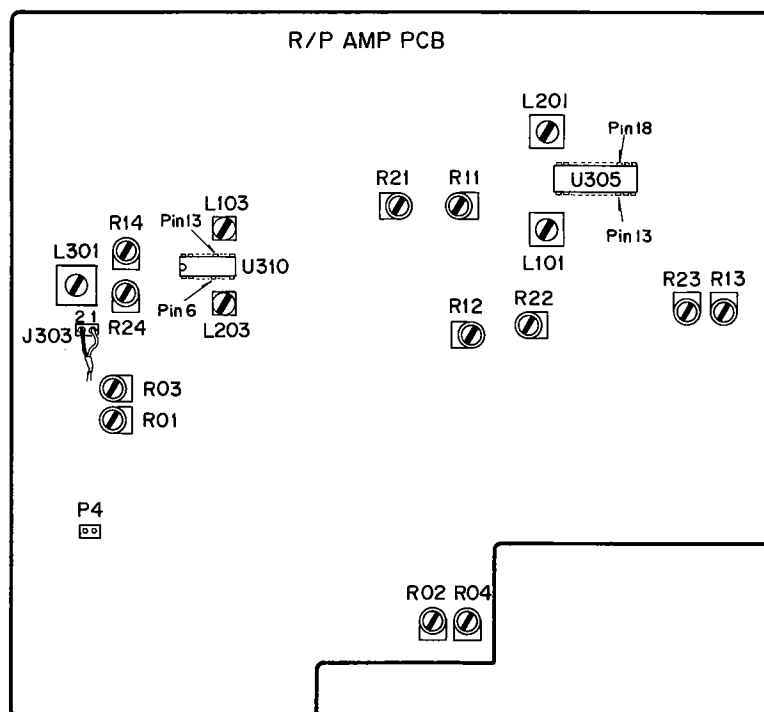
- 1) Apply a drop of oil with an oil applicator to a point about 1/4 the way down the shaft (from the free end) of flywheel, then insert the shaft into the capstan housing.

3-2 ELECTRICAL ADJUSTMENT AND CHECKS

3-2-1 Precautions

- 1) Before performing adjustments and checks clean and demagnetize the entire tape path.
- 2) In general, adjustments and checks are made in the order of Lch then Rch. Double REF. Nos. indicate Lch /Rch. (Example ; R11/R21)
- 3) 0dB is referenced to 0.775V. If an AC voltmeter that references 0dB to 1V is used, appropriate compensation should be made.
- 4) The AC voltmeter used in the procedures must have an input impedance of 1M Ω or more.
- 5) Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
- 6) Unless specified otherwise, adjustments and checks are made in FWD direction.
- 7) Input terminals and measuring points at each step are the same as previous step, otherwise specified.
- 8) Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.

3-2-2 Adjustment locations



R01/R03	Tape speed (LOW/HIGH) [DECK I]
R02/R04	Tape speed (LOW/HIGH) [DECK II]
R11/R21	Playback level [DECK I]
R12/R22	Playback level [DECK II]
R13/R23	Record level
R14/R24	Record bias
L101/L201	MPX filter
L103/L203	Step up coil
L301	Bias OSC frequency

Fig. 3-2

3-2-3 PLAYBACK PERFORMANCE

Deck settings :
DOLBY NR Switch : OFF

TEAC test tapes :
MTT-150 : For Dolby level calibration
MTT-25702 : For playback frequency response
check for NORMAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
1. REC/PLAY head azimuth	Connection : Fig. 3-5 Check/adjust in FWD, REV respectively	MTT-150	Check	OUTPUT : Phase : within 45°	Fig. 3-6
		MTT-25702 (12.5kHz)	Azimuth screws of R/P head (Fig. 3-4)	Max. output at L & Rch	
2. Specified output level	Connection : Fig. 3-3 FWD PLAY	MTT-150	R11/R21 [DECK I] R12/R22 [DECK II]	DOLBY T.P U305 Pin18/Pin13 : 338mV (−6dB)	Ref. level
	FWD/REV PLAY	MTT-150	Check	OUTPUT : −4.5dB ± 1dB (411mV~518mV)	
3. Meter level		MTT-150	Check	PEAK LEVEL METER: 0dB ± 1	
4. PHONES output level	Connection : Fig. 3-7	MTT-150	Check	PHONES : −19dB ± 3dB (61.5mV~123mV)	8 Ω load
5. Playback frequency response	Connection : Fig. 3-3	MTT-25702	Check	OUTPUT : Fig. 3-8	
6. Playback S/N ratio	Connection : Fig. 3-3	Leader tape with 120 μ (NORMAL) type case	Check	46dB min.	Ratio of ref. output of −4.5dB to noise

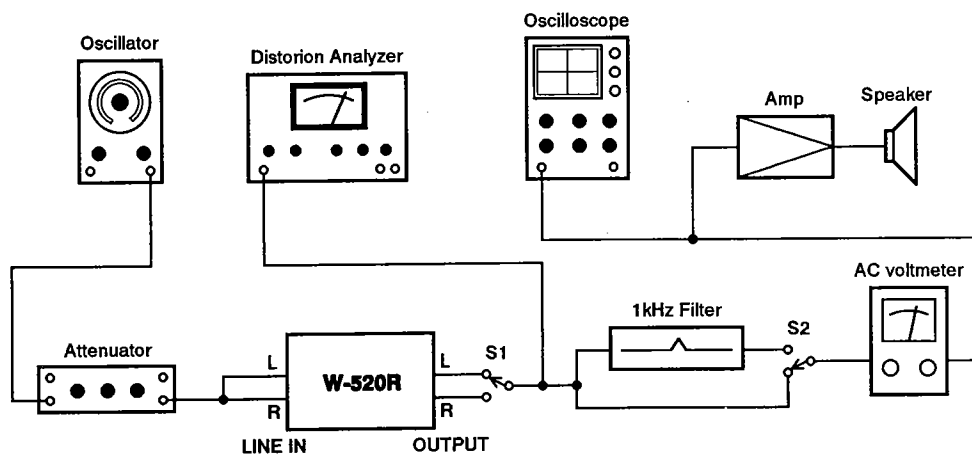


Fig. 3-3 Basic test setup

3-2-4 MONITOR PERFORMANCE

Deck settings :
DOLBY NR Switch : OFF

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
7. Min. LINE Input level	Connection : Fig. 3-3 REC LEVEL Control : MAX	LINE IN : 400Hz/ - 19dB (87mV)	Check	OUTPUT : - 4.5dB \pm 3dB (327mV~652mV)	
8. Specified LINE Input level	Connection : Fig. 3-3	LINE IN : 400Hz/ - 9dB (275mV)	REC LEVEL Control	OUTPUT : - 4.5dB (462mV)	After adjusting, do not move (Specific position)
9. Monitor S/N ratio	Connection : Fig. 3-3	LINE IN : No signal	Check	60dB min.	Ratio of ref. output of -4.5dB to noise

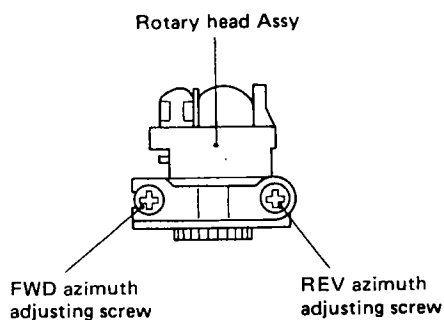


Fig. 3-4 Azimuth screw location

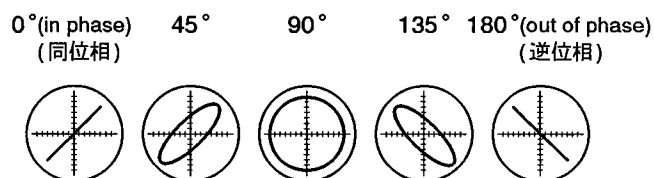


Fig. 3-6 Confirming phase relationship

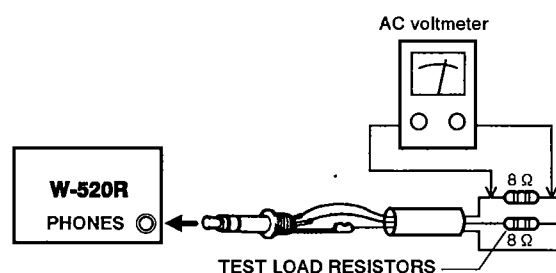


Fig. 3-7 Test setup for PHONES check

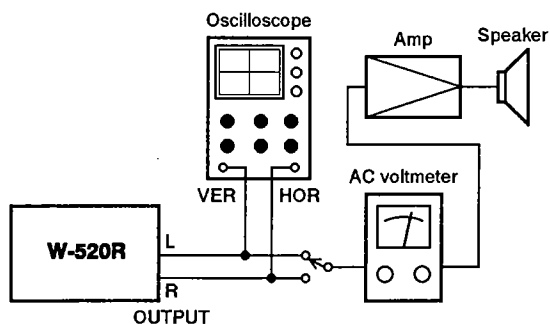


Fig. 3-5 Test setup for azimuth check

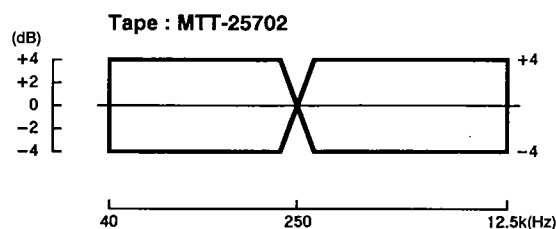


Fig. 3-8 Playback frequency response

3-2-5 RECORDING PERFORMANCE

Deck settings :

DOLBY NR Switch : OFF

REC LEVEL Control : Specified position (item8)

BIAS FINE Control : Center position

TEAC recording test tapes :

MTT-5511 : For NORMAL

MTT-5561 : For CrO₂

MTT-5571 : For METAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
10. Bias OSC	Connection : Fig. 3-9 TAPE : MTT-5511 Mode : RECORD	LINE IN : No signal	L301	J303-1 : 100kHz	Specified bias frequency
11. Step up coil	Connection : Fig. 3-9 TAPE : MTT-5571 Mode : RECORD	LINE IN : No signal	L103/L203	U310 Pin6/Pin13 : Min. DC voltage	
12. Record bias	Connection : Fig. 3-3 TAPE : MTT-5511 Mode : REC/PLAY	LINE IN : 250Hz/- 34dB 10kHz/- 34dB (15.5mV)	R14/R24	OUTPUT : Nearly equal level at both frequencies	
13. MPX filter	Connection : Fig. 3-3 Mode : REC-PAUSE	LINE IN : 19kHz ± 10Hz/ - 12dB (195mV)	L101/L201	30dB min.	Ratio of ref. output of -4.5dB to signal
14. Record level	Connection : Fig. 3-3 TAPE : MTT-5511 Mode : REC/PLAY	LINE IN : 400Hz/- 12dB (195mV)	R13/R23	OUTPUT : - 7.5dB ± 1dB (291mV~367mV)	
15. Total harmonic distortion	Connection : Fig. 3-3 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 400Hz/- 12dB (195mV)	Check	NORMAL : 2.0 % CrO ₂ : 2.5 % METAL : 2.5 %	
16. Overall frequency response	Connection : Fig. 3-3 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 40Hz~12.5kHz/ - 34dB (15.5mV)	Check	OUTPUT : Fig. 3-10	
17. BIAS FINE range	Connection : Fig. 3-3 TAPE : MTT-5511	LINE IN : 10kHz/- 34dB (15.5mV)	BIAS FINE control	3dB min.	Recorded signal level variation
18. Overall S/N ratio	Connection : Fig. 3-3 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : No signal	Check	NORMAL : 45dB min. CrO ₂ : 46dB min. METAL : 46dB min.	Ratio of ref. output of -4.5dB to noise
19. Erase efficiency	Connection : Fig. 3-3 1kHz B.P.F in TAPE : MTT-5571	LINE IN : 1kHz/+ 1dB (870mV)	Check	65dB min.	Find the difference between the 1kHz recorded portion and the erased portion.

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
20. REC MUTE function	Connection : Fig. 3-3 1kHz B.P.F in TAPE : MTT-5571	LINE IN : 1kHz/+ 1dB (870mV)	Check	55dB min.	Find the difference between the 1kHz portion and the "REC MUTE" portion.
21. Channel separation	Connection : Fig. 3-3 1kHz B.P.F in TAPE : MTT-5561	LINE IN : Lch 1kHz/- 9dB (275mV) Rch No signal	Check	35dB min.	Find the difference between the 1kHz recorded portion (Lch) and the no signal portion (Rch).
22. Adjacent track crosstalk	Connection : Fig. 3-3 TAPE : MTT-5571	LINE IN : Lch No signal Rch 125Hz/- 9dB (275mV)	Check	40dB min.	Invert tape and play Rch track. Check leakage level against the output reference of previously recorded portion.

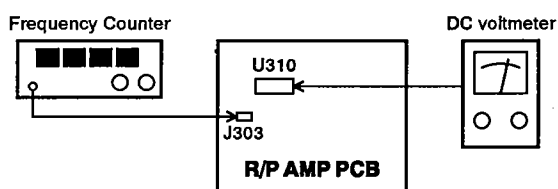


Fig. 3-9 Test setup for bias adjustment

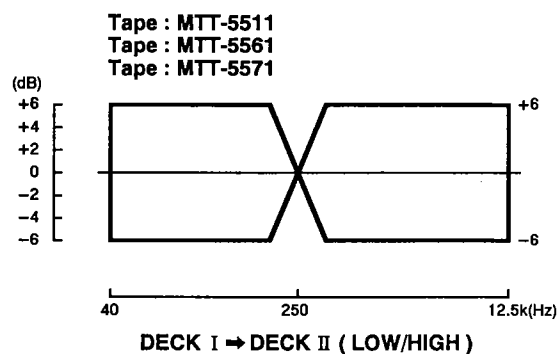
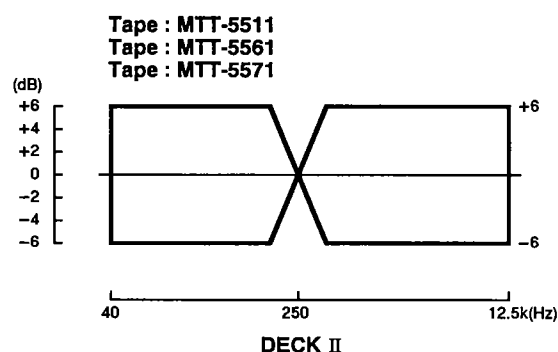
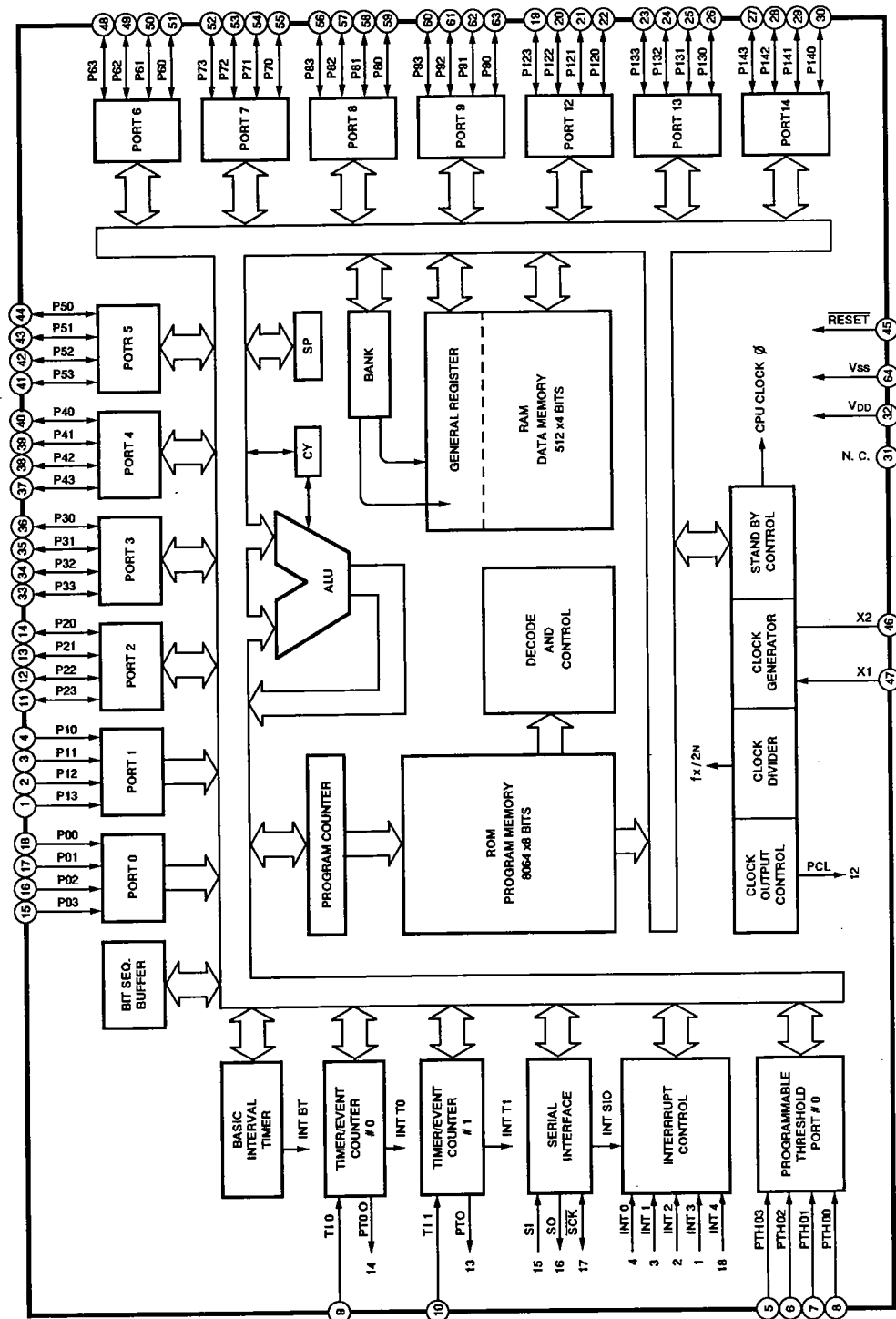
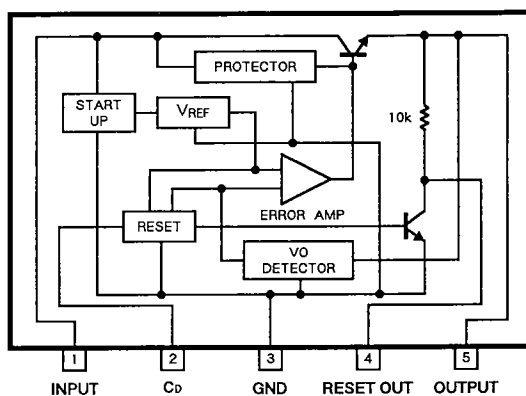


Fig. 3-10 Overall frequency response

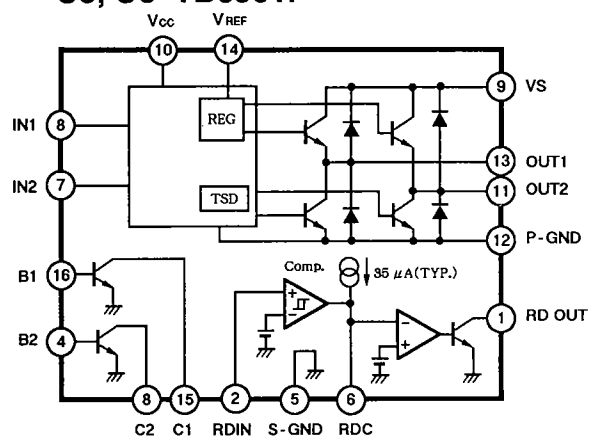
4 IC BLOCK DIAGRAMS

U4 μ PD75108CW

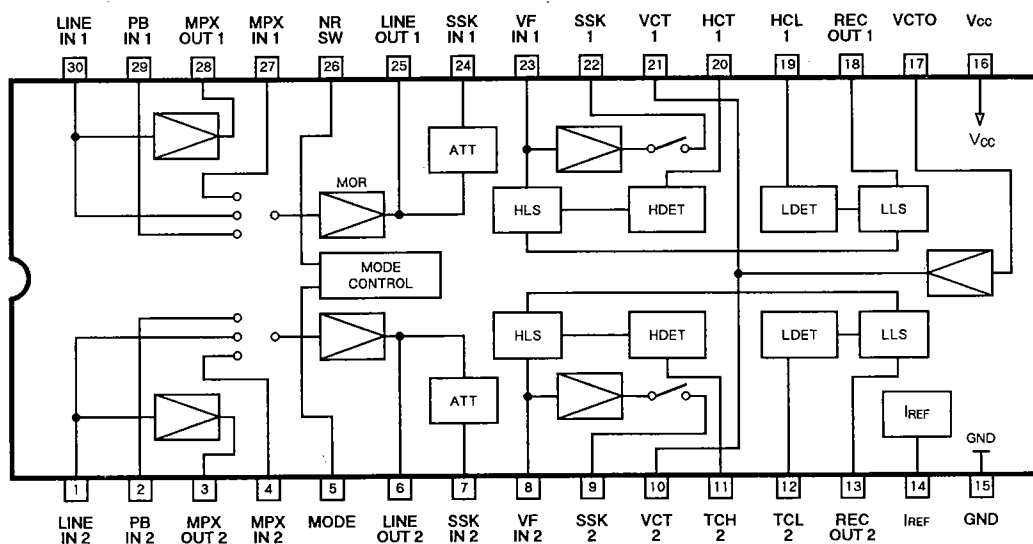
U3 78LR05



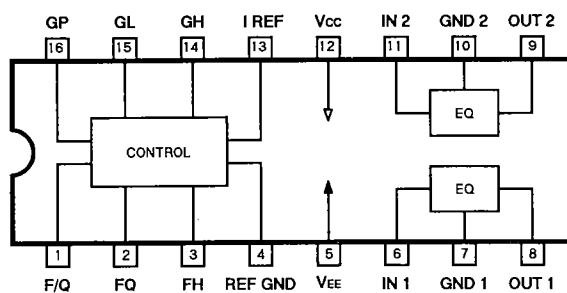
U5, U6 TB6501P



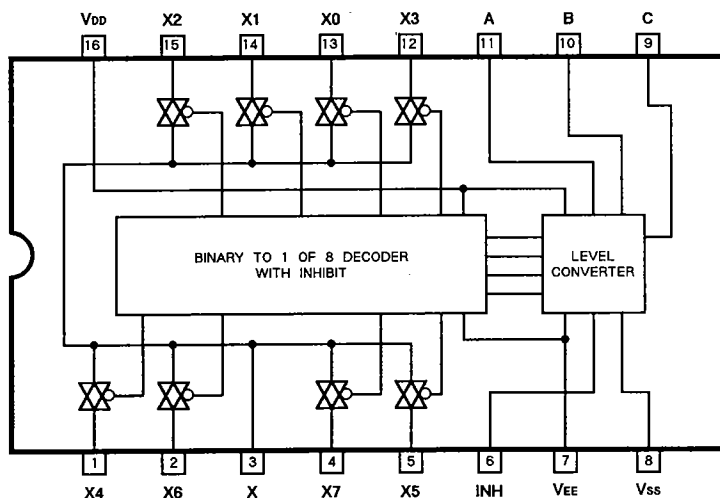
U305 CXA1331S



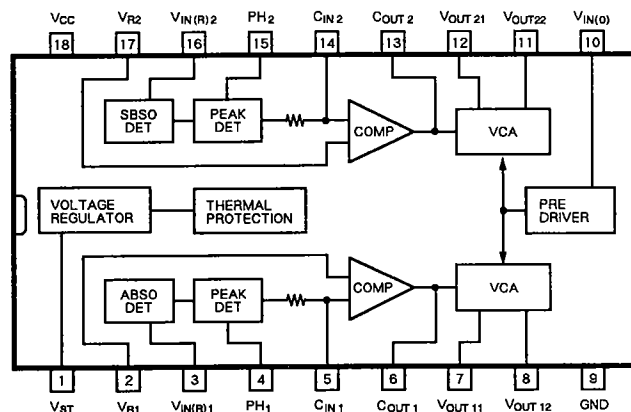
U308 CXA1198AP



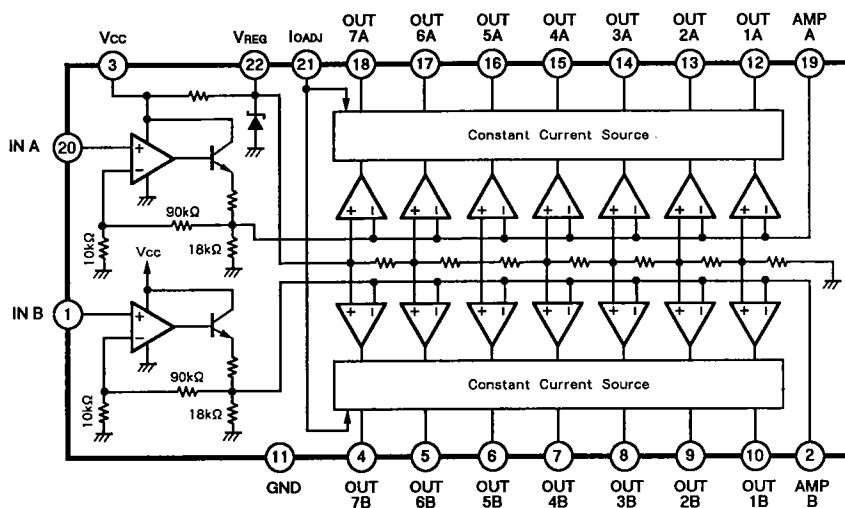
U309 BU4051B



U310 uPC1297CA



U312 IR2E28



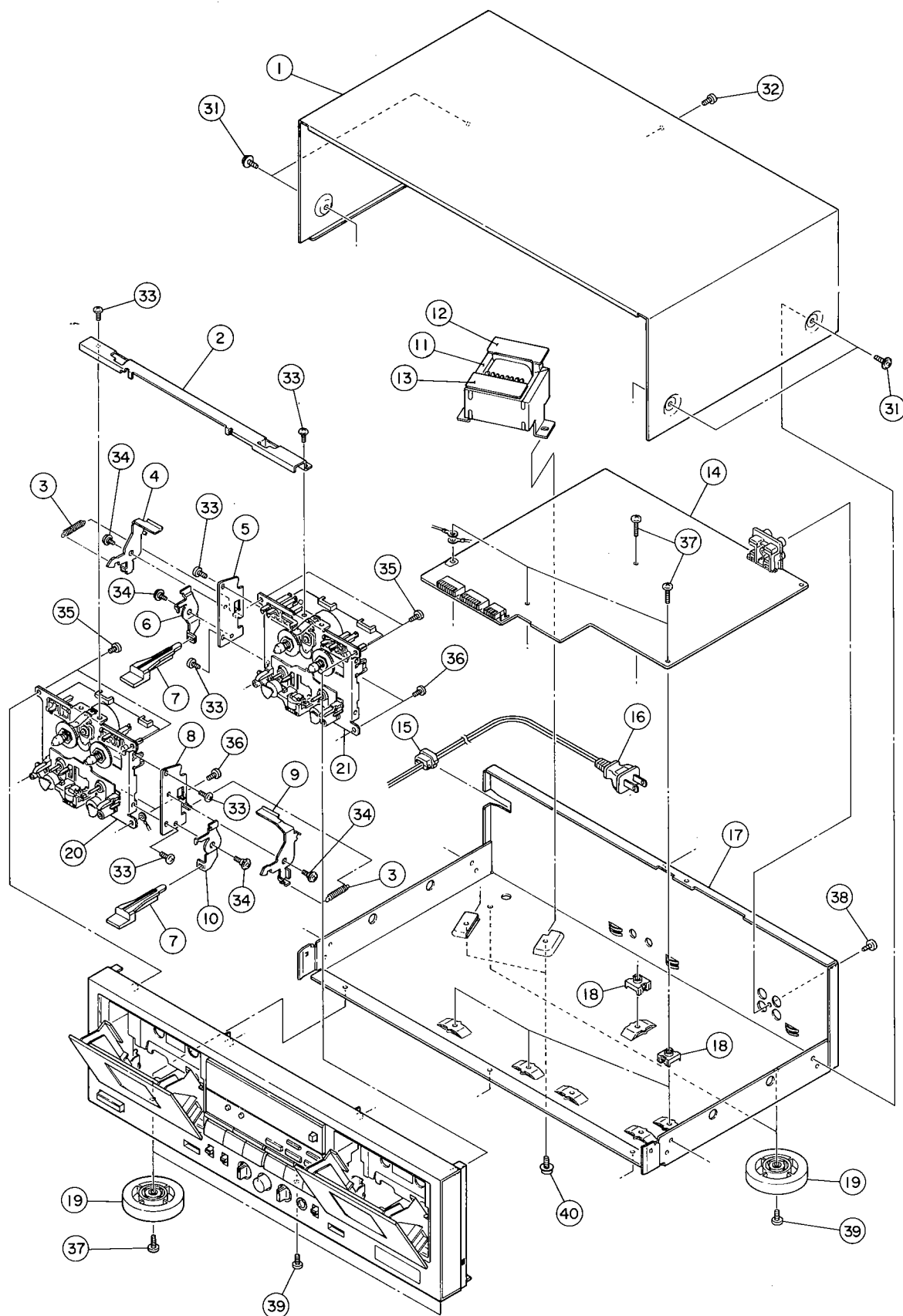
PARTS LISTS SECTION

NOTES

- PC boards shown viewed from parts side.
- Parts marked with *require longer delivery time.
- The mechanical parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- \triangle Parts marked with this sign are safety critical components. They must always be replaced with identical components refer to the appropriate parts list and ensure exact replacement.

5 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1



EXPLODED VIEW-I

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	*9260155900	BONNET	Ref. pages 20 & 22 Ref. pages 21 & 22
1- 2	*9260150501	MECH HOLDER	
1- 3	*9260151400	EJECT SPRING	
1- 4	*9260152201	LID HOOK R (2)	
1- 5	*9260152400	HOOK BASE R (2)	
1- 6	*9260152601	EJECT PLATE R (2)	
1- 7	*9260151201	EJECT BUTTON	
1- 8	*9260152300	HOOK BASE L (1)	
1- 9	*9260152101	LID HOOK L (1)	
1-10	*9260152501	EJECT PLATE L (1)	
1-11	△*9125087300	POWER TRANS. [A]	
	△*9125087400	POWER TRANS. [US,C]	
1-12	*9155096500	TRANS PCB (1) [US,C]	
1-13	*9145096601	TRANS PCB (2) ASSY	
1-14	*9145096124	R/P AMP PCB ASSY	
1-15	9121000100	BUSHING, #2271 [US,A]	
	9121000101	BUSHING, #2271 [C]	
1-16	△ 9109025800	AC CORD [US,C]	
	△ 9109026000	AC CORD [A]	
1-17	*9260152901	MAIN CHASSIS [US]	
	*9260158900	MAIN CHASSIS [C,A]	
1-18	9260151300	PCB SUPPORT	
1-19	9260113901	FOOT ASSY	
1-20		CASSETTE MECH.ASSY IPB CMAY2Z417A	
1-21		CASSETTE MECH.ASSY 2R/P CMAY2Z415A	
1-31	*9783053006	SCREW, CAP-S M3X6 (BLK)	
1-32	*9783593008	SCREW, C-TITE M3X8 (NI-BLK)	
1-33	*9783202605	SCREW, BTT-S M2.6X5	
1-34	*9260152700	SCREW, 4X1.3 S	
1-35	*9783603010	SCREW, BTT-P M3X10	
1-36	*9783203006	SCREW, BTT-S M3X6	
1-37	*9783203014	SCREW, BTT-S M3X14	
1-38	*9783613008	SCREW, BTT-P M3X8 (BLK)	
1-39	*9783203008	SCREW, BTT-S M3X8	
1-40	*9783294008	SCREW, SEMS BTB-S M4X8	

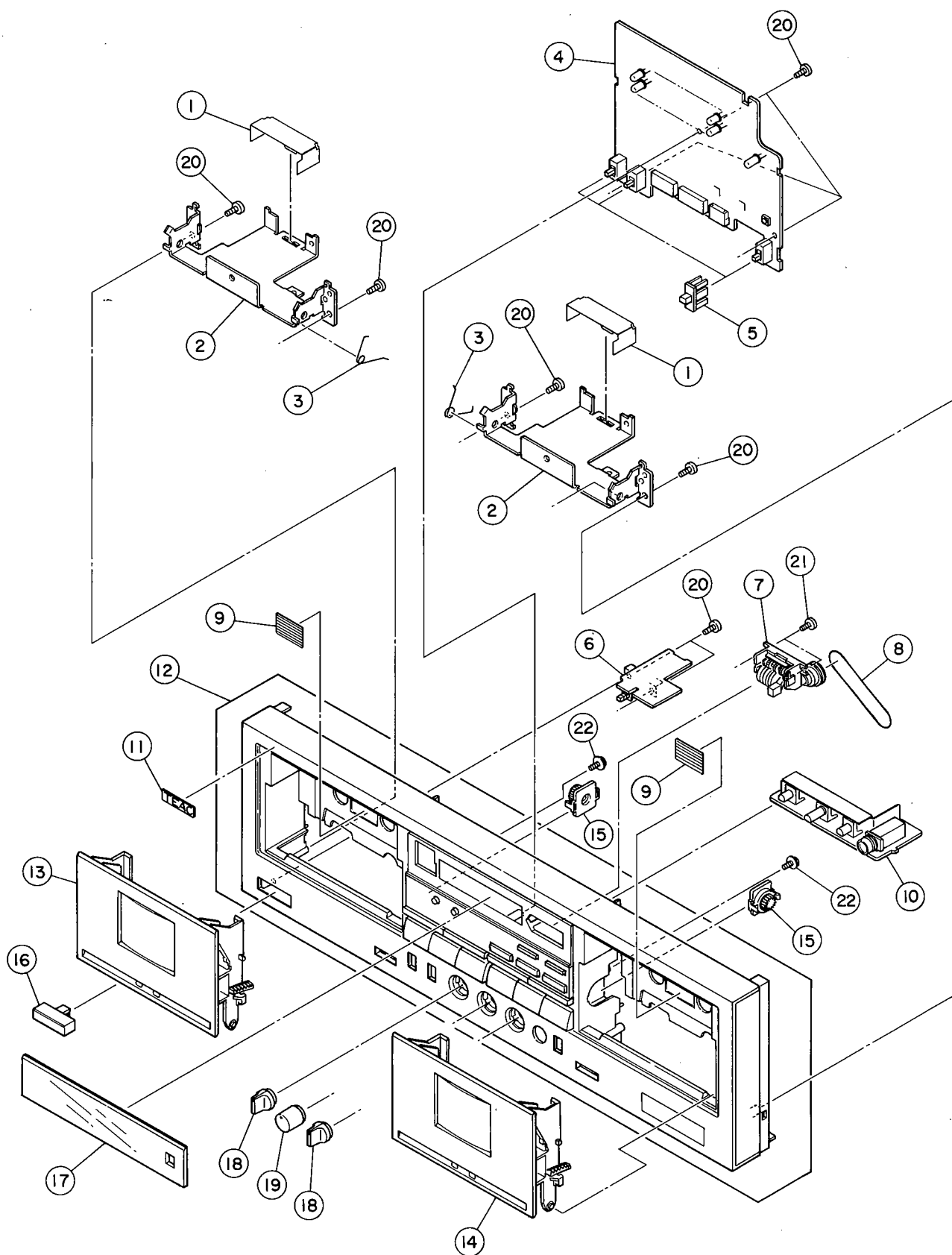
INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9101388000	OWNER'S MANUAL (E)	
	9109025100	CORD, IN-OUT	

Parts marked with *require longer delivery time.

[US]:U.S.A. [C]:CANADA [A]:AUSTRALIA

EXPLODED VIEW-2



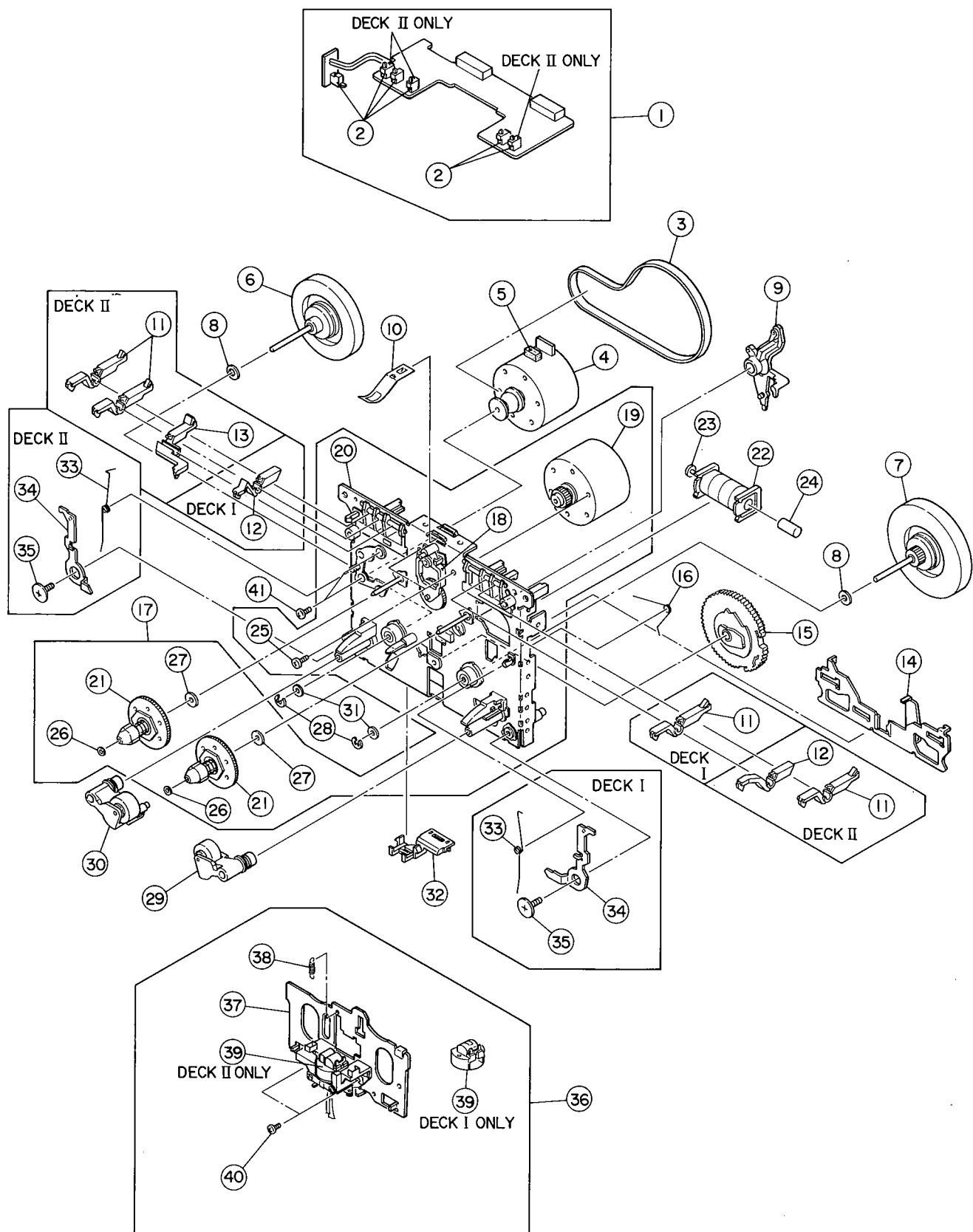
EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*9260151800	SHEALD PLATE (C)	Ref. pages 20 & 22
2- 2	*9260150401	LID HOLDER	
2- 3	*9260151500	HOLDE SPRING	
2- 4	*9145096221	KEY/METER PCB ASSY	
2- 5	*9260150801	SL KNOB	
2- 6	*9145096420	POWER SW PCB ASSY	Ref. pages 20 & 22
2- 7	*9260153700	TAPE COUNTER	
2- 8	*9260152000	COUNTER BLET	Ref. pages 20 & 22
2- 9	*5800822400	REFLECT TAPE	
2-10	*9145096320	VR PCB ASSY	
2-11	*9260150600	EMBLEM	
2-12	*9260153502	FRONT PANEL SUB ASSY	
2-13	*9260149301	LOADING CASE A	
2-14	*9260149200	LOADING CASE B	
2-15	*9260077301	DAMPER	
2-16	*9260132900	POWER BUTTON	
2-17	*9260150700	METER COVER 3	
2-18	*9260151000	PAN CAP KNOB	
2-19	*9260151100	REC KNOB	
2-20	*9783603008	SCREW, BTT-P M3X8	
2-21	*9783602608	SCREW, BTT-P M2.6X8	
2-22	*9783413008	SCREW, CAP-P M3X8 (BLK)	

Parts marked with *require longer delivery time.

[US]:U.S.A. [C]:CANADA [A]:AUSTRALIA

EXPLODED VIEW-3



EXPLODED VIEW-3

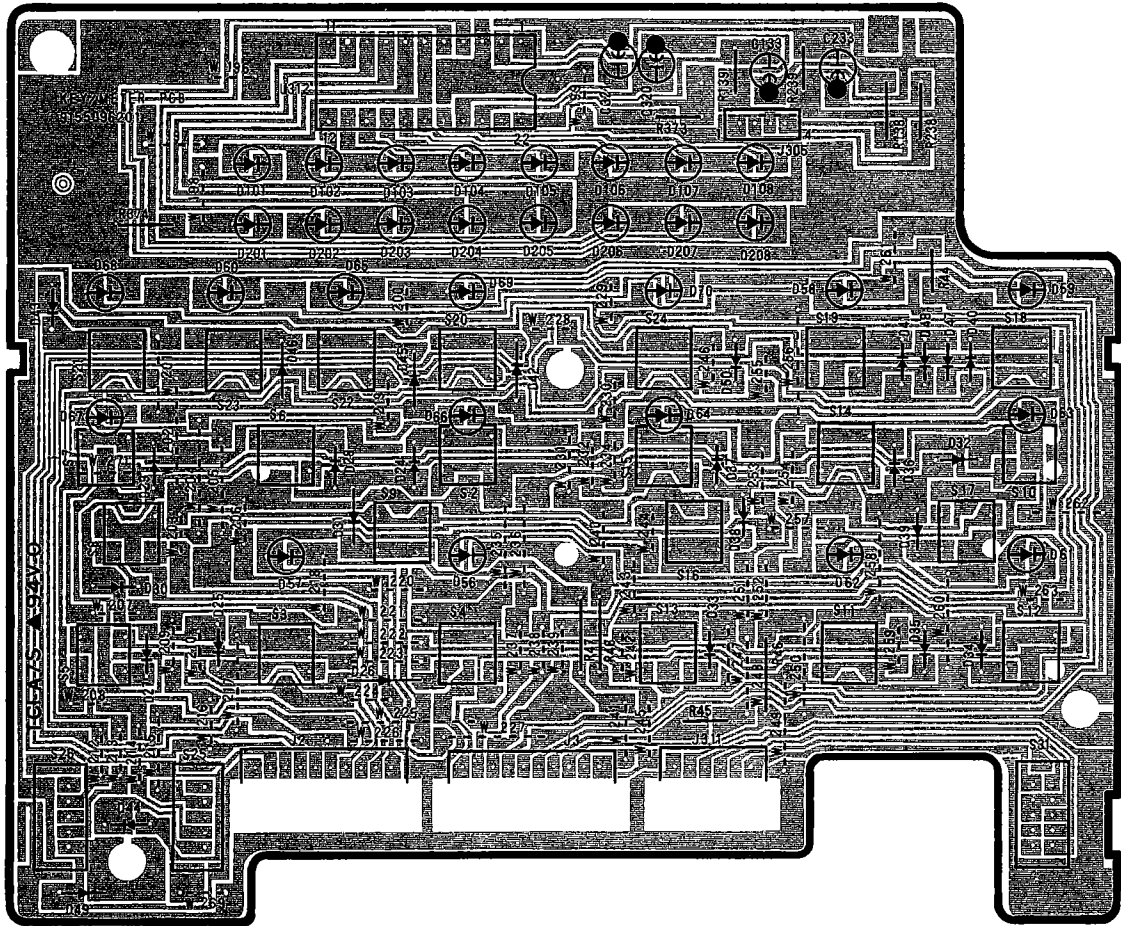
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5761848900	PCB CONTROL BLK	F567-438 [DECK 1]
	*5761848700	PCB CONTROL BLK	F567-436 [DECK 2]
3- 2	*5761748700	SW, PUSH	
3- 3	*5761790900	MAIN BELT	FF17G-31
3- 4	*5761794400	MOTOR MAIN BLK	F525-256
3- 5	*5761841000	HOLDER CUSHION (L)	FF17C-12
3- 6	*5761791400	F/W ASSY (2.0)	FR22E-13
3- 7	*5761791300	F/W ASSY (2.2)	FR22D-11
3- 8	*5761689200	POLYSLIDER	FJ111-30
3- 9	*5761849800	PLAY ARM	FD45G-13
3-10	*5761849600	CASSETTE HOLD SPRING	FC52H-13
3-11	*5761840500	REC SENS. LEVER	FD44T-14
3-12	*5761849900	PACK SENS. LEVER	FD44W-12 [DECK 1]
	*5761790700	PACK SENS. LEVER (L)	FD44Y-12 [DECK 2]
3-13	*5761790800	METAL SENS. LEVER	FD44V-12 [DECK 2]
3-14	*5761849700	SLIDE PLATE	FC52F-15
3-15	*5761840400	CAM GEAR (3R)	FD45B-15
3-16	*5761791200	SLIDE SP	FK28R-11
3-17	*5761847100	CHASSIS BLK	F511-506
3-18	*5761792200	IDLER BLK	F517-049
3-19	*5761792300	MOTOR REEL BLK	F564-280
3-20	*5761847200	CHASSIS BASE BLK	F612-145
3-21	*5761792600	REEL BASE BLK	F623-127
3-22	*5761792700	SOLENOID BLK	F765-263
3-23	*5761792900	SOLENOID	FL39K-12
3-24	*5761793000	SOLENOID PIN	FL39H-12A
3-25	*5761838900	SCREW, PAN 2.6X6.4	FG156-11A
3-26	*5761745600	POLYSLIDER	
3-27	*5761745500	POLYSLIDER	
3-28	*5761791900	E-RING	UG13U-15
3-29	*5761791500	PINCH ROLLER ASSY (R)	FR20L-21A
3-30	*5761850200	PINCH ROLLER ASSY (L)	FR20M-22
3-31	*5761791000	POLYSLIDER 2.6X0.5	FJ111-14
3-32	*5761790300	LEAD HOLDER	FD45H-15
3-33	*5761850100	EJECT PREVENT SP (R)	FK28L-16 [DECK 1]
	*5761791100	EJECT PREVENT SP (L)	FK28M-15 [DECK 2]
3-34	*5761849500	EJECT PREVENT ARM (R)	FC39M-68 [DECK 1]
	*5761849400	EJECT PREVENT ARM (L)	FC39L-70 [DECK 2]
3-35	*5761837000	SCREW, STEP	UG15S-11A
3-36	*5761847400	PLATE HD BLK	F513-494 [DECK 1]
	*5761847300	PLATE HD BLK	F513-493 [DECK 2]
3-37	*5761852200	HEAD BASE	FC52E-36
3-38	*5761793300	HB SP	FK26N-14
3-39	*5761848100	HADKH2513B	FU17V-61A [DECK 1]
	*5761848000	HADKH5557B	FU17N-61A [DECK 2]
3-40	*5761848200	SCREW, PAN TT2.0X5	UG19D-11
3-41	*5761791800	SCREW, PAN SW2.6X5	FG114-14

Parts marked with *require longer delivery time.

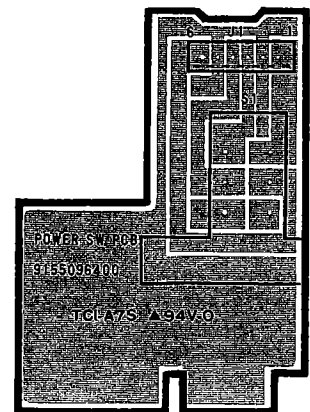
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6 PC BOARDS AND PARTS LIST

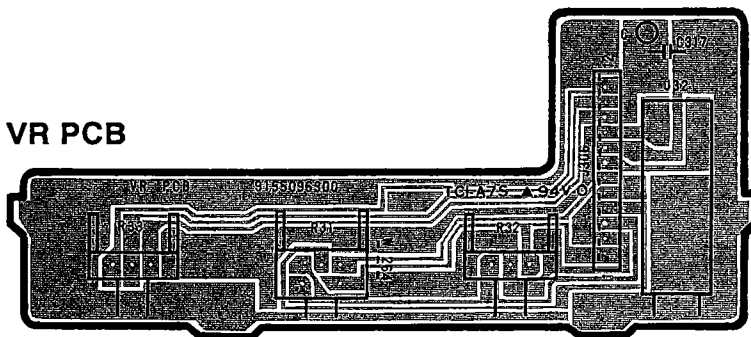
KEY/METER PCB



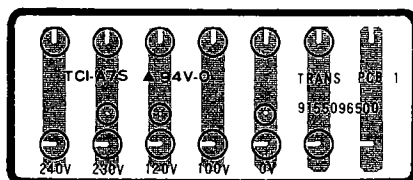
POWER SW PCB



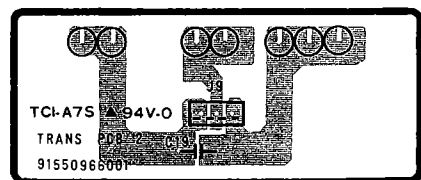
VR PCB



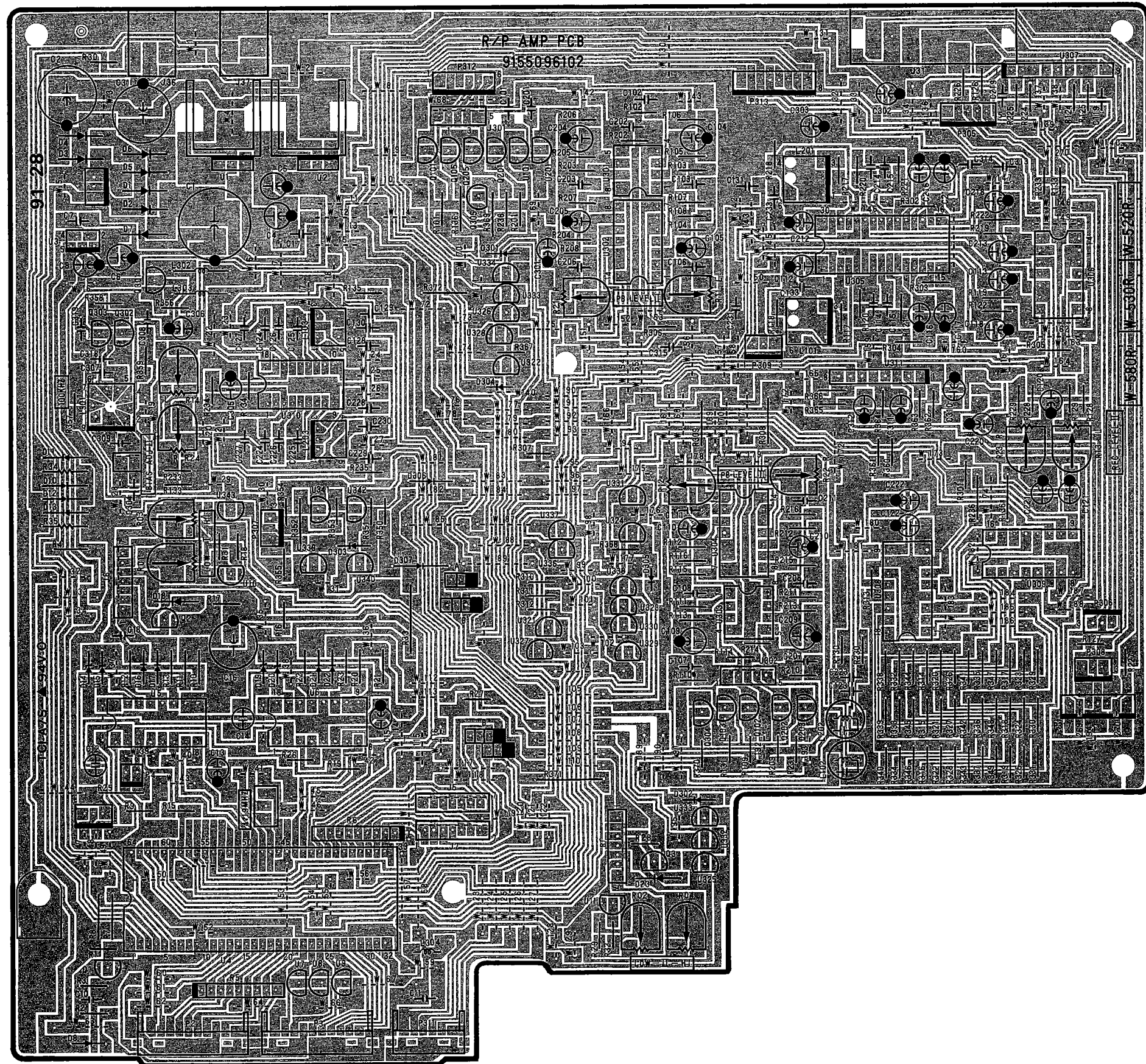
TRANS PCB 1



TRANS PCB 2



R/P AMP PCB



KEY/METER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145096221	KEY/METER PCB ASSY
	*9155096201	KEY/METER PCB
D 25- 27	9165022150	DIODE, ISS133T
D 30- 41	9165022150	DIODE, ISS133T
D 44- 46	9165022150	DIODE, ISS133T
D 49	9165022150	DIODE, ISS133T
D 56, 57	9174014220	LED, 5 SLR54YC-R (YEL)
D 58, 59	9174014320	LED, 5 SLR54VC-P (RED)
D 60- 63	9174014220	LED, 5 SLR54YC-R (YEL)
D 64, 65	9174014320	LED, 5 SLR54VC-P (RED)
D101,201	9174014220	LED, 5 SLR54YC-R (YEL)
D102,202	9174014220	LED, 5 SLR54YC-R (YEL)
D103,203	9174014220	LED, 5 SLR54YC-R (YEL)
D104,204	9174014220	LED, 5 SLR54YC-R (YEL)
D105,205	9174014220	LED, 5 SLR54YC-R (YEL)
D106,206	9174014320	LED, 5 SLR54VC-P (RED)
D107,207	9174014320	LED, 5 SLR54VC-P (RED)
D108,208	9174014320	LED, 5 SLR54VC-P (RED)
J 2, 3	5334076800	PLUG, CONNECTOR 10P
J311	5334076500	PLUG, CONNECTOR 6P
SW 3- 5	9136000502	SW, TACT
SW 8- 19	9136000502	SW, TACT
SW22, 23	9136000502	SW, TACT
SW25, 26	9134010400	SW, SLIDE 1-3
SW31	9135031700	SW, SLIDE 2-3
U312	5220446800	IC, 1R2E28

VR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145096320	VR PCB ASSY
	*9155096300	VR PCB
	*9260151900	SHEALD PLATE
J 32	9143248000	JACK, PHONE (YKB21-5138A)
R 31	9172019300	VR, REC 50KAX2
R 32	9172019400	VR, BLANCE 100KWX1
R 33	9172019500	VR, BIAS FINE 5KBX1

POWER SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145096420	POWER SW PCB ASSY
	*9155096400	POWER SW PCB
△ 9135031000		SW, POWER

TRANS PCB (2) ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145096601	TRANS PCB (2) ASSY
	*9155096601	TRANS PCB (2)
C 19	△ 9115818820	C, CERAMIC 0.01UF/50V

R/P AMP PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*9145096124	R/P AMP PCB ASSY
	*9155096102	R/P AMP PCB
	9229021000	EARTH PLATE (A)
	*9260069800	HEAT SINK
	*9783213008	SCREW, BTT-B M3X8
C 1	△ 9117302100	C, ELEC 3300UF/16V
C 2, 3	△ 9117273510	C, ELEC 2200UF/16V
C 16	9117258000	C, ELEC 1000UF/16V
C 17, 18	9115827120	C, CERAMIC 0.1UF/50V
D 1- 7	△ 9165020508	DIODE, IN4003
D 8	9165022150	DIODE, ISS133T
D 10- 13	9165022150	DIODE, ISS133T
D 14	9166030752	ZENER DIODE, MTJ7.5C
D 15	9166030952	ZENER DIODE, MTJ4.7C
D 16, 17	9165022150	DIODE, ISS133T
D 18	9165020508	DIODE, IN4003
D 19	9166030752	ZENER DIODE, MTJ7.5C
D 20	9166030952	ZENER DIODE, MTJ4.7C
D 21, 22	9165022150	DIODE, ISS133T
D 23	9165020508	DIODE, IN4003
D302,303	9165022150	DIODE, ISS133T
D305-307	9165022150	DIODE, ISS133T
J 1	9143229000	JACK, MINIATURE
J 2	9143312000	JACK, MINIATURE
J 31	5330506600	JACK, PIN 4P
L101,201	9173007000	LOW PASS FILTER MPX
L102,202	9122017600	COIL, BIAS TRAP 100KHZ
L103,203	9173007700	COIL, STEP UP
L301	9173007200	COIL, OSC 100KHZ
L302,303	9173006350	COIL, 220UH
L304	9173006300	COIL, 220UH
P 1	9143231000	PLUG, CONNECTOR 3P (WHT)
P 2, 3	5334076400	SOCKET, CONNECTOR 10P
P 4	9160013000	TP PIN 2P
P305	9143233000	PLUG, CONNECTOR 5P (WHT)
P306	9143231000	PLUG, CONNECTOR 3P (WHT)
P307	9143231000	PLUG, CONNECTOR 3P (WHT)
P308	9143231020	PLUG, CONNECTOR 3P (RED)
P309	9143231000	PLUG, CONNECTOR 3P (WHT)
P311	5334076100	SOCKET, CONNECTOR 6P
Q 1	9163309420	TR, 2SC1815GR
Q 2, 3	9163309820	TR, 2SC2120Y
Q102,202	9163309420	TR, 2SC1815GR
Q103,203	9163308821	TR, 2SC1845F
Q301	9163011320	TR, 2SA933LN-S

R/P AMP PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
Q302,303	9163309420	TR, 2SC1815GR
Q304	9163308821	TR, 2SC1845F
R 1, 2	9112017000	VR, SEMI-FIXED 20K (B)
R 3, 4	9112003000	VR, SEMI-FIXED 10K (B)
R 5, 6	9111244000	R, ARRAY 22KX8 (8R1M)
R 11, 21	9112003000	VR, SEMI-FIXED 10K (B)
R 12, 22	9112003000	VR, SEMI-FIXED 10K (B)
R 13, 23	9112017000	VR, SEMI-FIXED 20K (B)
R 14, 24	9112003000	VR, SEMI-FIXED 10K (B)
R 33	△ 9114101510	R, METAL OXIDE 2.2J 2W
U 1	△ 5220432200	IC, M5F78M07L
U 2	△ 5220432900	IC, M5F79M07L
U 3	△ 9167018500	IC, L78LR05D-MA
U 4	5220826000	IC, UPD75108CW-C55
U 5, 6	9167020000	IC, TB6501P
U 8- 11	9163011220	TR, DTA124ES
U101,201	9163310420	TR, DTC124ES
U301	9167014000	IC, UPC4570C
U302	9167009800	IC, TC4066BP
U303	9167014000	IC, UPC4570C
U304	9167009800	IC, TC4066BP
U305	9167019200	IC, CXA1331S
U306	9167009800	IC, TC4066BP
U307	9167012100	IC, NJM4558S
U308	9167019600	IC, CXA1198AP
U309	9167018900	IC, BU4051B
U310	9167012800	IC, UPC1297CA
U321-325	9163310420	TR, DTC124ES
U327-332	9163011220	TR, DTA124ES
U335-337	9163011220	TR, DTA124ES
U338-340	9163310420	TR, DTC124ES
U341,342	9163011220	TR, DTA124ES
U343	9163310420	TR, DTC124ES
X 1	5347017700	OSC, CERAMIC EFO-GC4194A4

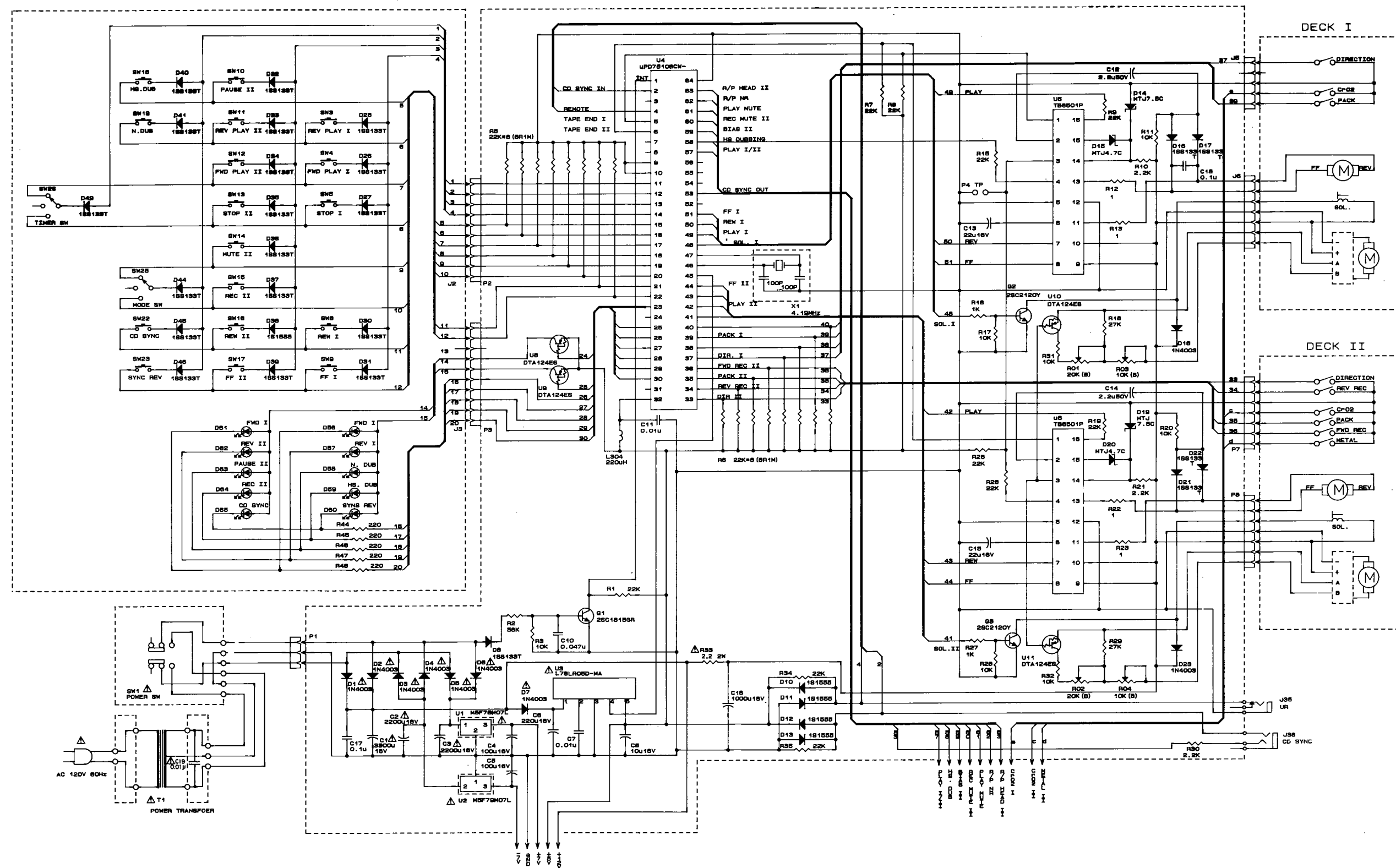
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Parts marked with *require longer delivery time.

[US]:U.S.A. [C]:CANADA [A]:AUSTRALIA

A
B
C
D
E



INSTRUCTIONS FOR SERVICE PERSONAL

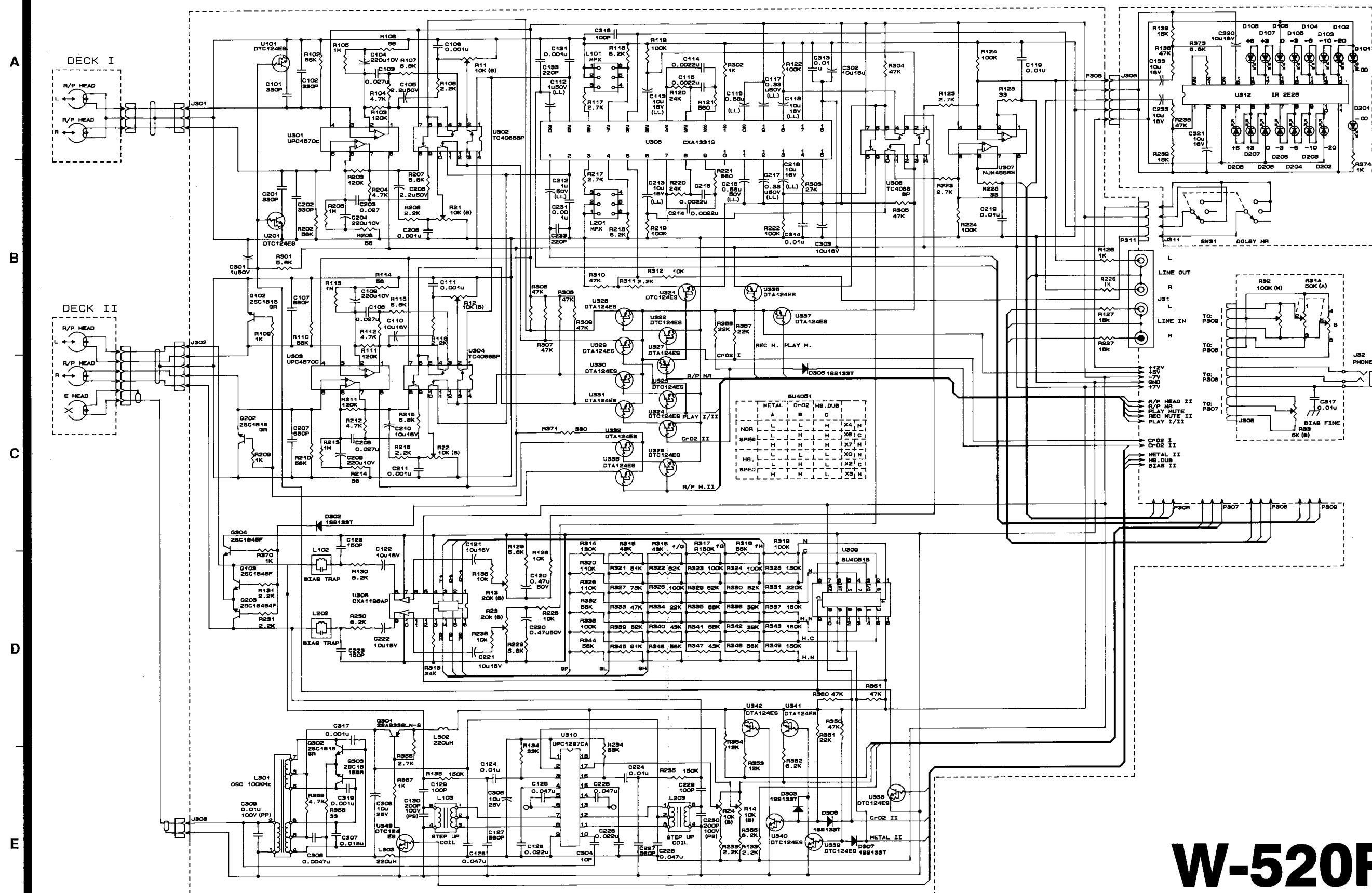
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:

1. Resistor values are in ohms (k = kilo-ohms, M = megohms).
2. Capacitor values are in microfarads (p = picofarads).
3. Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

W-520R

Stereo Double Cassette Deck



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W-520R

TEAC®

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