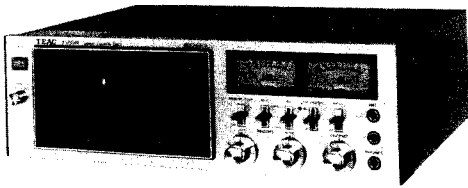


TEAC®



SERVICE MANUAL

A-550RX

Stereo Cassette Deck

1 SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo

2 Heads Erase and Record/Playback

Type of Tape Cassette tape, C-60 and C-90 (Philips type)

Tape Speed 4.8 cm/s (1-7/8 ips)

Input (level and impedance)

MIC: Specified input level; -57 dB (1.09 mV)/10 kohms

Min. input level; -67 dB (346 μ V)

LINE IN: Specified input level; -9 dB (275 mV)/50 kohms

Min. input level; -19 dB (86.9 mV)

DIN*¹: Min. input level; -35 dB (13.8 mV) (Europe Model only)

*¹ Pursuant to DIN standards

Outputs (level and load impedance)

OUTPUT: Max. output level; -2.5 dB (580 mV)/50 kohms

Specified output level; -5 dB (436 mV)

Headphones: Specified output level; -15 dB (138 mV)/8 ohms

Equalization

METAL: 3180 μ s+70 μ s

CO(CrO₂): 3180 μ s+70 μ s

NORMAL: 3180 μ s+120 μ s

Head Configuration

1/2-track, 1-channel Erase Head

1/4-track, 2-channel record/playback head

Motor FG servo controlled DC motor

Bias Frequency 100 kHz

Operation Position Horizontal

Power Requirements

100/117/220/240V AC, 50/60 Hz, 42W

(General Export Model)

117V AC, 60 Hz, 44W (U.S.A./Canada Model)

220V AC, 50 Hz 36W (Europe Model)

240V AC, 50 Hz 36W (U.K./Aus. Model)

Weight 9.5 kg (20-15/16 lbs.) net

12.0 kg (26-7/16 lbs.) net (Some

General Exp. Models have wood panels/case.)

Dimensions See Fig. 1-1.

SERVICE DATA

MECHANICAL

Tape Speed Deviation 3,000 Hz $\pm$ 45 Hz

Tape Speed Drift 45 Hz

Wow and Flutter

Playback: 0.07% (WRMS), 0.15% (RMS)

Record/Playback: 0.20% (RMS)

Pinch Roller Pressure 350 g to 450 g (12.3 oz. to 15.9 oz.)

Reel Torque

Take-up: 40 to 60 g.cm (0.6 to 0.8 oz.-inch)

Supply: 2 to 6 g.cm (0.03 to 0.08 oz.-inch)

Fast Forward: 80 to 150 g.cm (1.1 to 2.1 oz.-inch)

Rewind: 100 to 150 g.cm (1.4 to 2.1 oz.-inch)

Fast Winding Time

About 90 seconds for MTT-501 (C-60)

ELECTRICAL

Frequency Response

Playback Reference 315 Hz:

40 Hz $\sim$ 6.3 kHz $\pm$ 2 dB

10 kHz +2, -3 dB

14 kHz +2, -4 dB

Overall Reference 400 Hz:

METAL/CO (CrO₂)

40 Hz +2, -4 dB

63 Hz $\sim$ 10 kHz $\pm$ 2 dB

14 kHz +2, -4 dB

NORMAL

40 Hz +2, -4 dB

63 Hz $\sim$ 6.3 kHz $\pm$ 2 dB

10 kHz +2, -3 dB

12.5 kHz +2, -4 dB

Signal-to-Noise Ratio

PLAYBACK: NORMAL; 48 dB min.

OVERALL: Co(CrO₂) & METAL; 48 dB min. (NR-OUT),
65 dB min. (NR-dbx*²)

NORMAL; 46 dB min. (NR-OUT),
65 dB min. (NR-dbx)

S/N is improved by 5 dB at 1 kHz and 10 dB above 5 kHz
when Dolby*³ NR is used.

Erase Efficiency 65 dB min. at 1 kHz (measured with input 10
dB higher than the specified input level)

Channel Separation 30 dB min. (NR-OUT), 40 dB min.
(NR-dbx) at 1 kHz

Adjacent Track Crosstalk 40 dB min. at 125 Hz

Total Harmonic Distortion 2.0% or less (NR-OUT), 1.5% or less
(NR-dbx) at 400 Hz w/3 types of tape

- Improvements may result in SPECIFICATIONS AND SERVICE DATA changes
- Value of "dB" in the Data refers to 0 dB (0.775 V), except where specified.

*² dbx noise reduction system made under license from dbx, Incorporated. The word dbx and the Symbol are trademarks of dbx, Incorporated.

*³ Noise reduction circuit made under license from Dolby Laboratories. The word "Dolby" and the Double-D symbol are trademarks of Dolby Laboratories.

WARNING

⚠ 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.

2 PARTS LOCATION

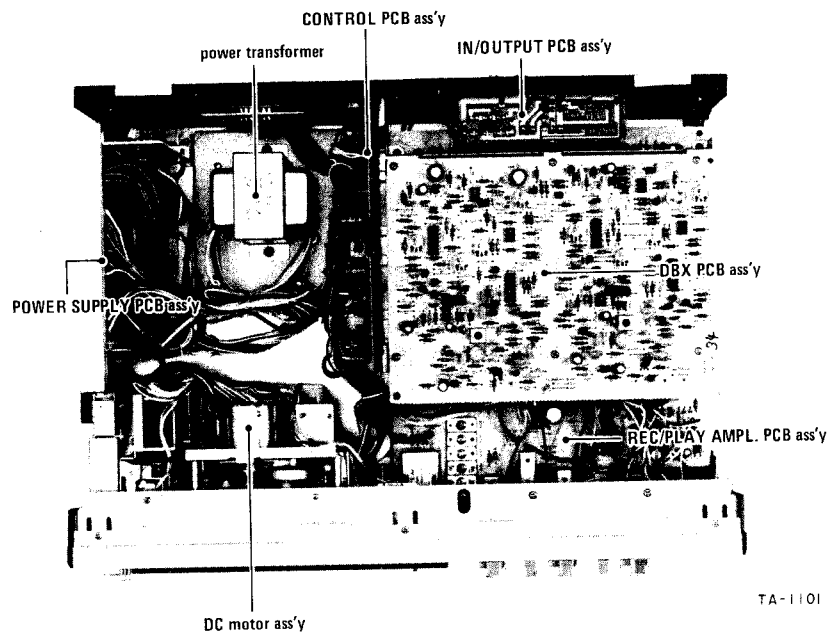


Fig. 2-1

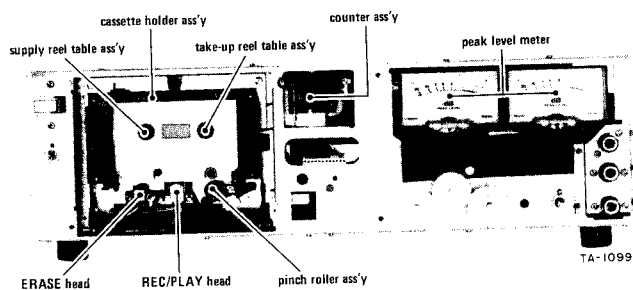
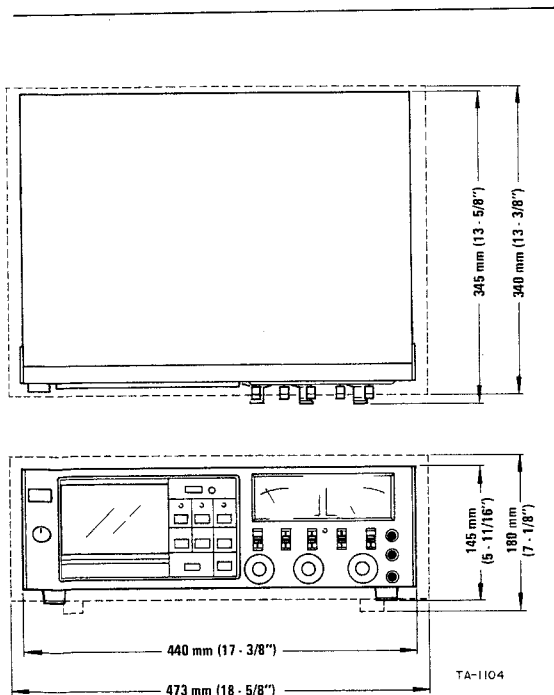


Fig. 2-2



Broken line indicates some General Export models.

Fig. 1-1

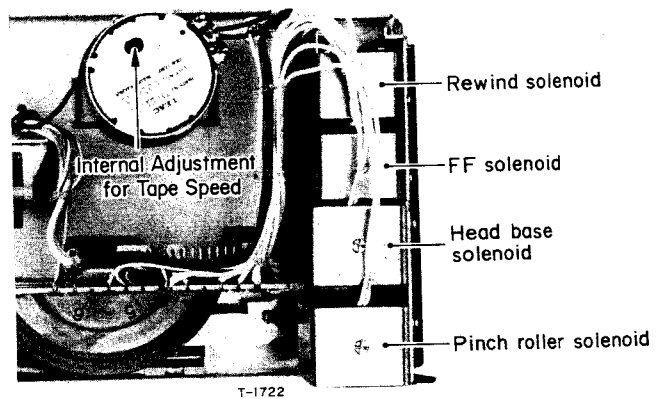
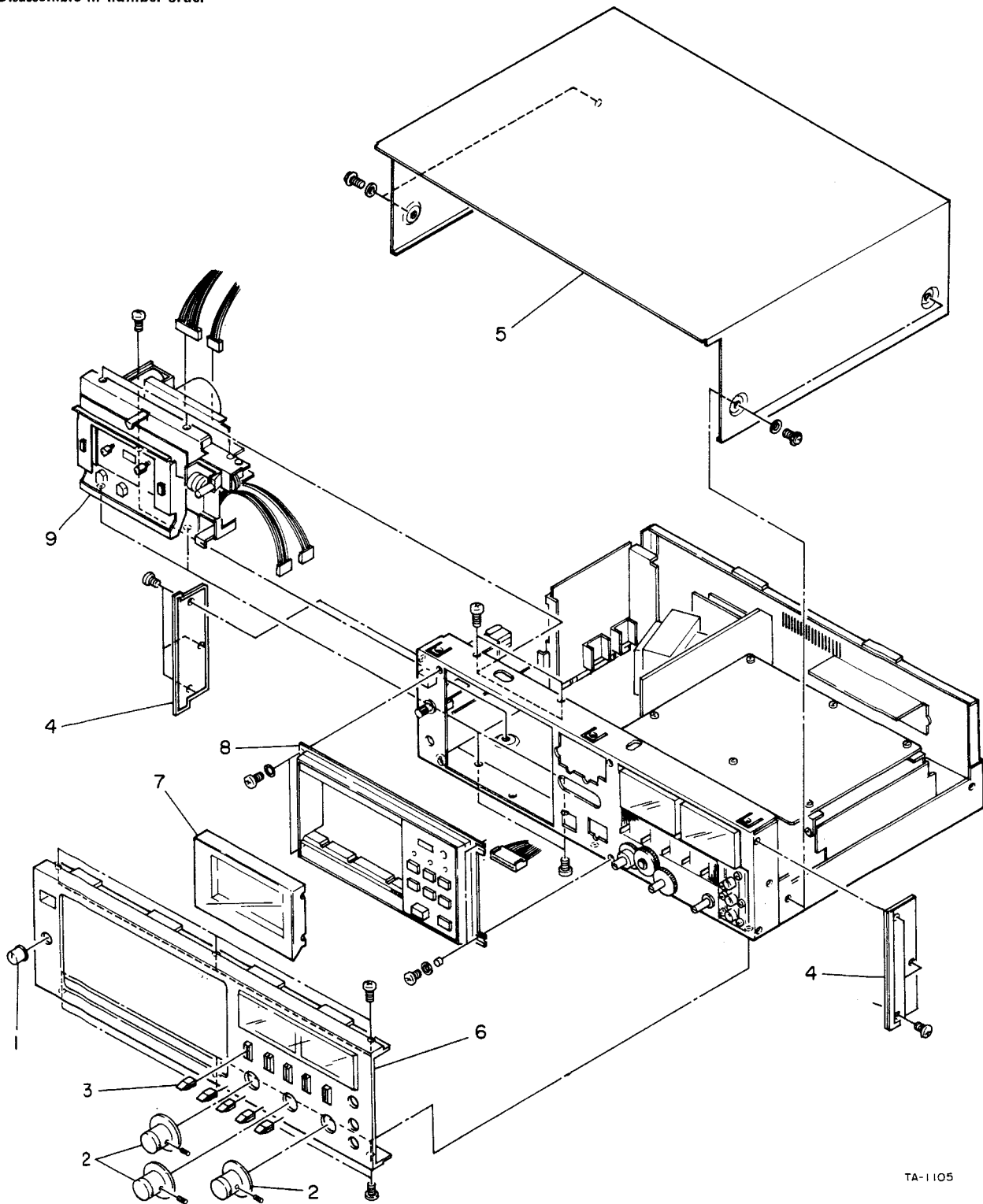


Fig. 2-3

3 CAGE AND FRONT PANEL REMOVAL

Disassemble in number-order



TA-1105

Fig. 3-1

4 MECHANICAL ADJUSTMENTS AND CHECKS

4-1 REEL TORQUE

Specifications:

Take-up:	40 to 60 g.cm (0.6 to 0.8 oz-inch)
Supply:	2 to 6 g.cm (0.03 to 0.08 oz-inch)
Fast Forward:	80 to 150 g.cm (1.1 to 2.1 oz-inch)
Rewind:	100 to 150 g.cm (1.4 to 2.1 oz-inch)

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape movement operation.

4-2 PINCH ROLLER PRESSURE

1. Place the deck in the PLAY mode with no tape loaded.
2. Attach the spring scale to the hole in the pinch roller ass'y as shown.
3. Draw the pinch roller away from the capstan shaft until the capstan shaft and the pinch roller are separated.
4. Return the scale back until the pinch roller just begins to rotate.

The scale should then be reading as per spec.

Specification: 350 g to 450 g (12.3 oz. to 15.9 oz.)

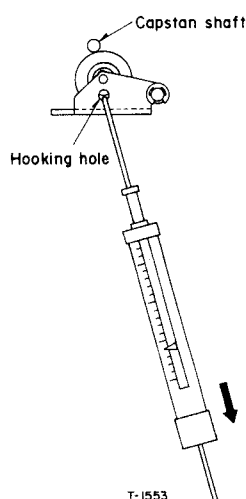


Fig. 4-1

4-3 CAPSTAN ASSEMBLY THRUST

Specification: 0.05 mm to 0.15 mm

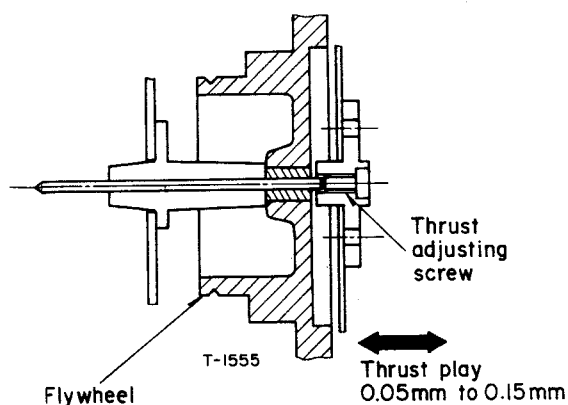


Fig. 4-2

4-4 HEAD BASE PLATE POSITIONING

1. Set the deck in the PLAY mode.
2. Push the Head Base Plate in the direction of the arrow by hand to check whether there is any clearance between the Head Base Plate and the stopper portion of the mechanism chassis.
3. If there is any clearance, loosen the two screws on the head base plate solenoid and position the solenoid so that there is no clearance. See Fig. 2-3.

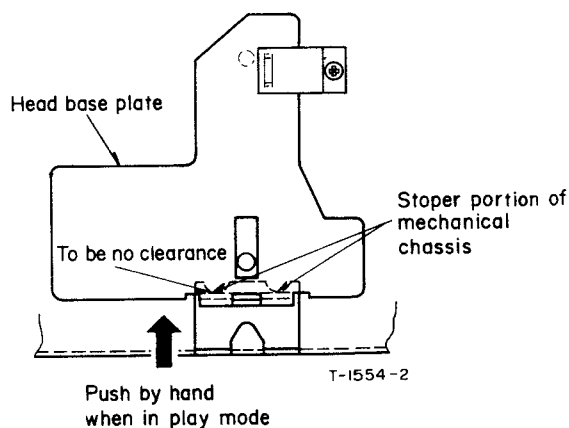


Fig. 4-3

4-5 MICRO SWITCH (A) ASSEMBLY CLEARANCE

1. Insert a blank cassette and close the cassette holder.
2. Loosen the two screws on the micro switch (A).
3. Move the switch so that actuator of the switch will contact the safety lever.
4. Adjust the switch position to get a clearance as shown.
5. Fasten the two screws.

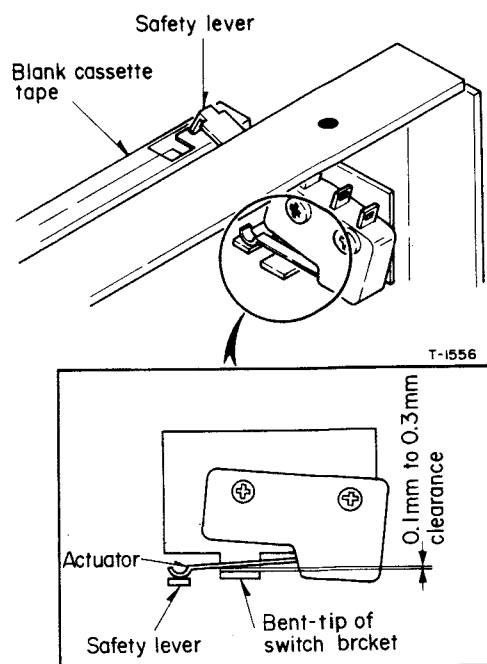


Fig. 4-4

4-6 MICRO SWITCH (B) ASSEMBLY CLEARANCE

1. Push the EJECT button to open the cassette holder.
2. Loosen the two screws on the micro switch (B).
3. Move the switch so that actuator of the switch contacts the bent-projecting portion of the eject lever.
4. Adjust the switch position to get a clearance as shown.
5. Fasten the two screws.

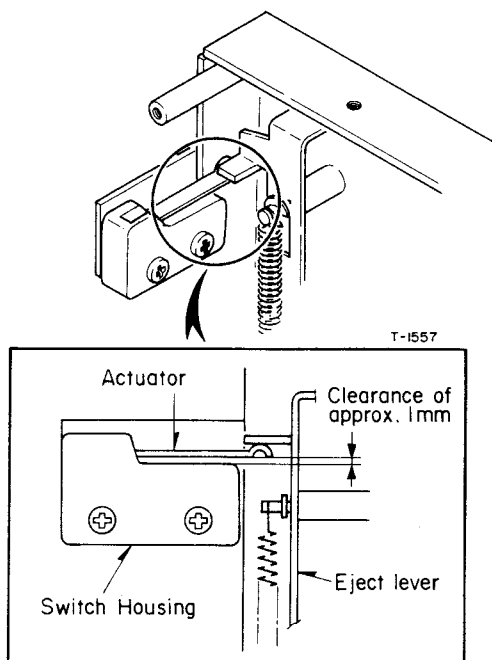


Fig. 4-5

4-7 TAPE SPEED

1. Load and play a TEAC MTT-111 test tape.
2. Using a common slotted screwdriver with a handle completely insulated from the screwdriver blade, adjust the control on the motor for a reading of $3,000 \pm 5$ Hz. See Fig. 2-3.
3. Check the followings at the beginning and the end of the tape.

Specifications:

Tape speed deviation $3,000 \text{ Hz} \pm 45 \text{ Hz}$

Tape speed drift 45 Hz

4. If the tape speed is out of spec., check the pinch roller pressure and the tape driving function for correctness, and make sure the tape path is clean.

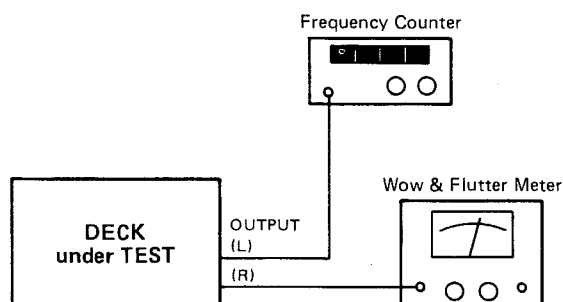


Fig. 4-6

4-8 LUBRICATION

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

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

Grease: ORE-LUBE G1/3 or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of the flywheel, then insert the shaft into the capstan housing.
2. Apply a suitable amount of light grease to the well of the flywheel bearing.

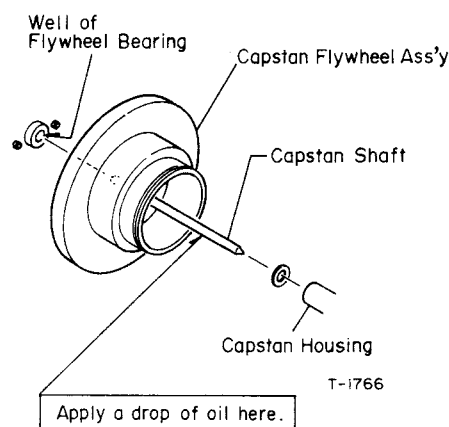


Fig. 4-7

4-9 VOLTAGE SELECTOR SETTING PROCEDURE (FOR GENERAL EXPORT MODELS)

1. Always disconnect the power line cord before making these adjustments.
2. Remove the top cover* of the deck by removing the screws from the sides.
3. Locate the voltage selector, shown in the illustration, to the front of the power transformer.
4. Loosen the two screws in the shorting bar and move the bar so that it shorts across the terminals marked with the required voltage (100, 117, 220 or 240).
5. Retighten the screws and replace the top cover*.

* Decks sold in some limited areas only have a wooden case which must be removed by the screws on the bottom of the deck before setting the voltage selector.

NOTE:

Since the A-550RX employs a DC servo motor, 50 Hz or 60 Hz operation is permitted without power line frequency adaptation.

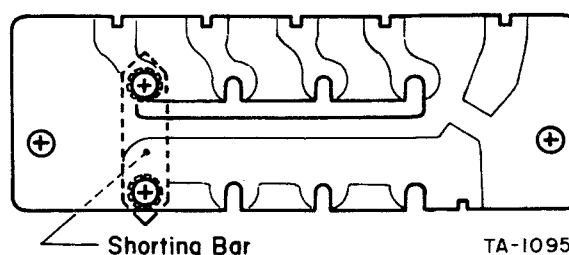


Fig. 4-8

5 ELECTRICAL ADJUSTMENTS AND CHECKS

NOTES

1. Before performing adjustments and checks, clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are done in the order of L-ch then R-ch. Double REF. Nos. indicate L-ch/R-ch. (Example: R11/R21)
4. The value of "dB" refers to 0 dB (0.775 V). If an AC voltmeter calibrated to 0 dB (1 V) is to be used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings must be used for all the checks or the chart unless explicitly stated otherwise.

5-1 POWER SUPPLY PCB ADJUSTMENT

1. Adjust R844 for +23 V DC at terminal 13 of the PCB to ground.
2. Adjust R845 for +15 V DC at terminal 23 to ground.
3. Check that there is -15 V DC at terminal 25 to ground.

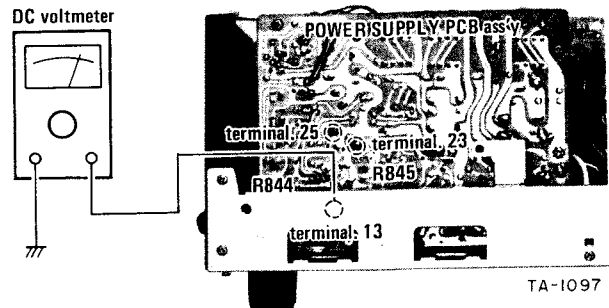


Fig. 5-1

5-2 BASIC TEST SETUP

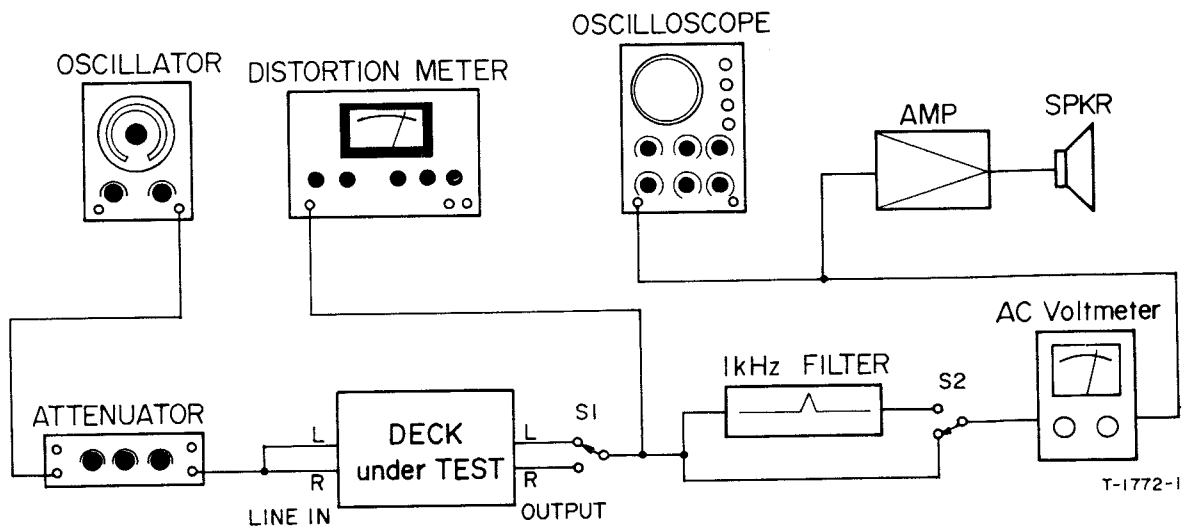


Fig. 5-2

-70 dB or more ... What does it mean?

Values in dB are often given like this: "-70 dB or more". This sometimes leads to confusion. Is -76 dB more than -70 dB or less? To put the record straight, the "more" refers to the absolute value. The absolute value of -70 is |70|. The absolute value of -76 is |76| which is 6 more than 70. So, -76 dB is "more" than -70 dB. -55 dB is "less" than -60 dB.

5-3 PLAYBACK PERFORMANCE

Deck settings:

EQ sw. — METAL
NR SYSTEM sw. — OUT

TEAC test tapes:

MTT-150: For Dolby level calibration
MTT-316: For playback frequency response check for METAL, Co (CrO₂).
MTT-216: For playback frequency response check for NORMAL

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
1. REC/PLAY head azimuth	Fig. 5-3	OUTPUT cont. — convenient level position	MTT-150	Check	Phase: within 45° on 'scope (Fig. 5-5)	
	"	"	MTT-316 (12.5 kHz/-20dB)	Azimuth adj. nut of head (Fig. 5-4)	Max. output on VTVM	
2. Output level	VTVM between TP1/TP2 (on R/P AMPL. PCB) and GND	NR SYSTEM — ☐	MTT-150	R12/R22	580 mV (-2.5dB)	
	VTVM between TP1L/TP1R (on DBX PCB) and GND	NR SYSTEM — OUT	"	VR101/VR201	"	
	Fig. 5-2	OUTPUT cont. — Max.	"	Check	-2.5 dB ±2 dB (461 mV ~ 731 mV)	Max. output level
	"	● Set OUTPUT cont. for -5dB output of ch. with lower reading	"	OUTPUT cont.	-5 dB (436 mV)	● Spec. output level ● Spec. PB condition IMPORTANT: After finishing, do not move OUTPUT cont. during any later process.
	"	● Adjust for ch. with higher reading	"	R13 or R23	"	
3. Peak level meter	Fig. 5-2	Spec. PB cond.	MTT-150	R15/R25	0 dB on peak level meter	
4. Frequency response	Fig. 5-2	Spec. PB cond. EQ-METAL ● Adjust for 10 kHz to be the same level as ref. signal	MTT-316	R11/R21	40Hz ~ 6.3kHz ±2 dB 10 kHz +2, -3 dB 14 kHz +2, -4 dB	Reference: 315 Hz
	"	EQ-NORMAL	" (10 kHz/-20 dB)	Check	10 kHz output should raise about 5 dB than above actual one	
5. Signal-to-noise ratio	Fig. 5-2	Spec. PB cond. EQ-NORMAL ● Use fully erased tape (Use bulk tape eraser)	MTT-501	Check	48 dB min. ratio	Ratio of spec. output -5 dB to noise
6. Headphone output level	Fig. 5-6	Spec. PB cond.	MTT-150	Check	-15 dB ±2 dB (109 mV ~ 173 mV)	● At phone jack ● 8Ω load

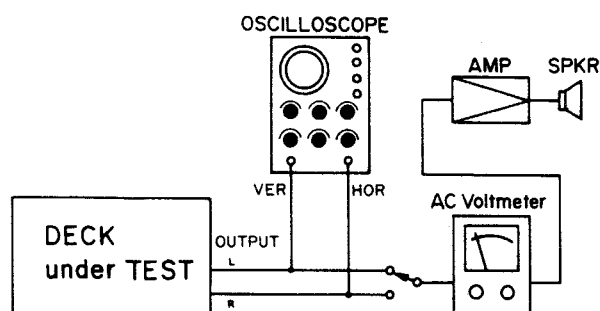


Fig. 5-3

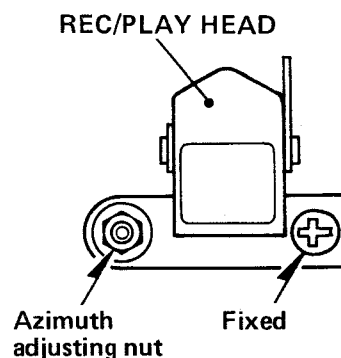


Fig. 5-4

Deck settings:

RECORD-PAUSE mode
NR SYSTEM sw. — OUT
INPUT sw. — LINE
OUTPUT cont — Spec. position (Item 2)

5-4 MONITOR PERFORMANCE

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
7. Min. input level	Fig. 5-2 But, LINE IN → MIC	RECORD cont. — Max. INPUT — MIC	400 Hz/—67 dB ± 3 dB (245 μ V ~ 489 μ V)	Check	—5 dB (436 mV)	NOTE: To prevent mismeasurements, any connection cords except these for each input check must be removed. MIC Min. input level DIN min. input level (for Europe model only) LINE IN min. input level By cutting, level can be raised 3 dB
	Fig. 5-2 But, LINE IN → DIN IN	INPUT—MIC	400 Hz/—35 dB ± 3 dB (9.75 mV ~ 19.5 mV)	"	"	
	Fig. 5-2	INPUT—LINE	400 Hz/—19 dB ± 3 dB (61.5 mV ~ 123 mV)	"	"	
	"	• If LINE input level difference between L and R is 2 dB or more, cut jumper (Fig. 5-12) on the lower reading ch.	"	"	"	
8. Spec. LINE input level	Fig. 5-2	—	400 Hz/—9 dB (275 mV)	RECORD cont.	—5 dB (436 mV)	• Spec. LINE input level • Spec. LINE input condition IMPORTANT: After this, do not move RECORD cont. during any later process
	OSC → ATT to LINE IN VTVM between TP1/TP2 (on R/P AMPL. PCB) and GND	Spec. LINE input cond.	"	Check	580 mV ± 1 dB (518 mV 652 mV)	
9. Peak level meter	Fig. 5-2	Spec. LINE input cond.	400 Hz/—9dB (275 mV)	Check	0 dB ± 1 dB on peak level meter	

NOTE: The bold arrows in the charts show the point up to which a particular control setting or condition must be maintained.

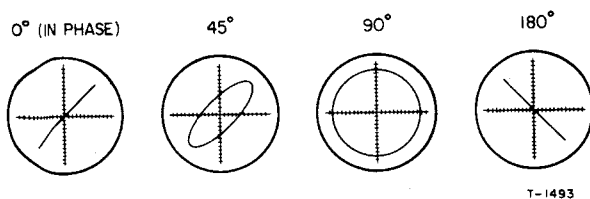


Fig. 5-5 Confirming Phase Relationship

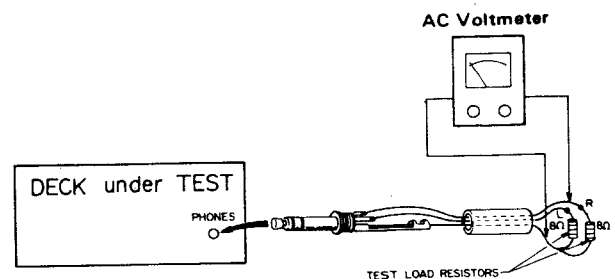


Fig. 5-6

5-5 RECORDING PERFORMANCE

Deck settings:

NR SYSTEM sw. — OUT
 INPUT sw. — LINE
 OUTPUT cont. — Spec. position
 (Item 2)
 RECORD cont. — Spec. position
 (Item 8)

TEAC test tapes:

MTT-506 or similar: For record test with
 Co (CrO₂)
 MTT-501 or similar: For record test with
 NORMAL
 METAL tape: For record test with METAL

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
10. Bias trap	VTVM between TP3/TP5 (on R/P ampl. PCB) and GND	Record-pause mode	No signal record.	L104/L204 (on R/P AMPL. PCB)	Min. reading	
	Fig. 5-2	"	"	L101/L201 (on DBX PCB)	"	
11. Record bias	Fig. 5-2	Spec. REC cond. { METAL/METAL Co(CrO ₂)/MTT-506 NORMAL/MTT-501	400 Hz & 10 kHz alternate-ly /-42 dB (6.15 mV)	VC101/VC201 VC102/VC202 VC103/VC203	Equal level at both freq.	Spec. REC condition ... Record cond. w/ RECORD cont. in spec. LINE input position (Item 8)
12. Record level	Fig. 5-2	Spec. REC cond. { METAL/METAL Co(CrO ₂)/MTT-506 NORMAL/MTT-501	400 Hz/-12 dB (195 mV)	R18/R28 R17/R27 R16/R26	-8 dB (308 mV)	
13. dbx encoding level	VTVM between TP1L/TP1R (on DBX PCB) and GND	Record-pause mode Spec. REC cond. NR SYSTEM - dbx	1 kHz/-9 dB (275 mV)	Check	580 mV (-2.5 dB)	Check steps 13 thru 16 only after you are sure that #5-6 is correct.
	VTVM between TP2L/TP2R (on DBX PCB) and GND	"	1 kHz/-14.5 dB (146 mV)	VR105/VR205	-8 dB (308 mV)	
14. dbx decoding level	Fig. 5-2	Same as above Co (CrO ₂)/MTT-506	400 Hz/-12 dB (195 mV)	VR106/VR206	-8 dB (308 mV)	Reference
	"	" , but NR SYSTEM -OUT	"	Check	0 ±0.5 dB deviates from ref.	
15. dbx distortion	Fig. 5-2	Spec. REC cond. NR SYSTEM - dbx ● Check w/ 3 types of tape	400 Hz/-12 dB (195 mV)	Check	1.5% or less distortion	
16. dbx signal-to-noise ratio	Fig. 5-2	Same as above	400 Hz/-9 dB (275 mV) then no signal record	Check	65 dB min. ratio	Ratio of spec. output -5 dB and noise
17. Total harmonic distortion	Fig. 5-2	Check w/ 3 types of tape	400 Hz/-12 dB (195 mV)	Check	2% or less distortion	
18. Frequency response	Fig. 5-2	Spec. REC cond. METAL/METAL	40 Hz~14 kHz/-42 dB (6.15 mV)	Check	40 Hz +2, -4 dB 63 Hz ~ 10 kHz ±2 dB 14 kHz +2, -4 dB	Reference: 400 Hz
	"	Co(CrO ₂)/MTT-506	"	"	"	
	"	NORMAL/MTT-501	40 Hz ~ 12.5 kHz/-42 dB (6.15 mV)	"	40 Hz +2, -4 dB 63 Hz ~ 6.3 kHz ±2 dB 10 kHz +2, -3 dB 12.5 kHz +2, -4 dB	
	If freq. response is wrong, recheck steps 11 and 17.					

NOTE: The bold arrows in the charts show the point up to which a particular control setting or condition must be maintained.

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
19. Signal-to-noise ratio	Fig. 5-2	Spec. REC cond. { METAL/METAL Co(CrO ₂)/MTT-506 NORMAL/MTT-501 }	1 kHz/-9 dB (275 mV) then no signal record.	Check	48 dB min. ratio 46 dB min. ratio	Ratio of spec. output -5 dB to noise
20. Erase efficiency	Fig. 5-2 Switch on 1 kHz filter	Spec. REC cond. METAL/METAL (or Co(CrO ₂)/MTT-506) ● Record 1 kHz. Re- wind tape to mid point of recorded portion. Do no signal recording. Get difference be- tween 1 kHz por- tion and its erased portion.	1 kHz/+1 dB (0.869 V) then no signal record.	Check	65 dB min. ratio	
21. REC MUTE function	Fig. 5-2 Switch on 1 kHz filter	Spec. REC cond. METAL/METAL (or Co(CrO ₂)/MTT-506) ● Record 1 kHz. Then push REC MUTE button for several sec. Rewind and play tape. Get difference between 1 kHz portion and the created no signal portion	1 kHz/+1 dB (0.869V) then no signal record.	Check	65 dB min. ratio	
22. Channel separation	Fig. 5-2 But use LINE IN (L) only as input, switch on 1kHz filter	Spec. REC cond. METAL/METAL (or Co(CrO ₂)/MTT-506) ● Set deck in record mode. Find differ- ences between 1 kHz recorded portion (L-ch) and no signal portion (R-ch).	1 kHz/-9 dB (275 mV)	Check	30 dB min. ratio	
23. Adjacent track crosstalk	Fig. 5-2 But use LINE IN(R) only as input, and OUTPUT(R) only as output	Spec. REC cond. METAL/METAL (or Co(CrO ₂)/MTT-506) ● Record 125 kHz on R-ch. Note output level of its recorded portion. Invert tape and play R-ch track. Check leakage level against the output ref. of previously recorded portion.	125 Hz/-9dB (275 mV)	Check	40 dB min. ratio	
24. Dolby NR effect	Fig. 5-2	Spec. REC cond. METAL/METAL (or Co(CrO ₂)/MTT-506) ● Record 1 kHz w/ NR SYSTEM sw. to OUT. Play its portion w/ sw., OUT and DOLBY. Get the output level differ- ence between OUT and DOLBY	1 kHz/-29 dB (27.5 mV)	Check	Variation 5.5 dB ±2.5 dB	
	"	● Repeat the above process for 10 kHz	10 kHz/-39 dB (8.69 mV)	"	Variation 10 dB ±2 dB	

5-6 DBX PCB ASSEMBLY CHECKS

5-6-1 CONNECTION

NOTE: If checks in this section are conducted, re-adjust the following:
 #5-3, ITEM 2, 2nd
 #5-5, ITEM 13
 #5-5, ITEM 14

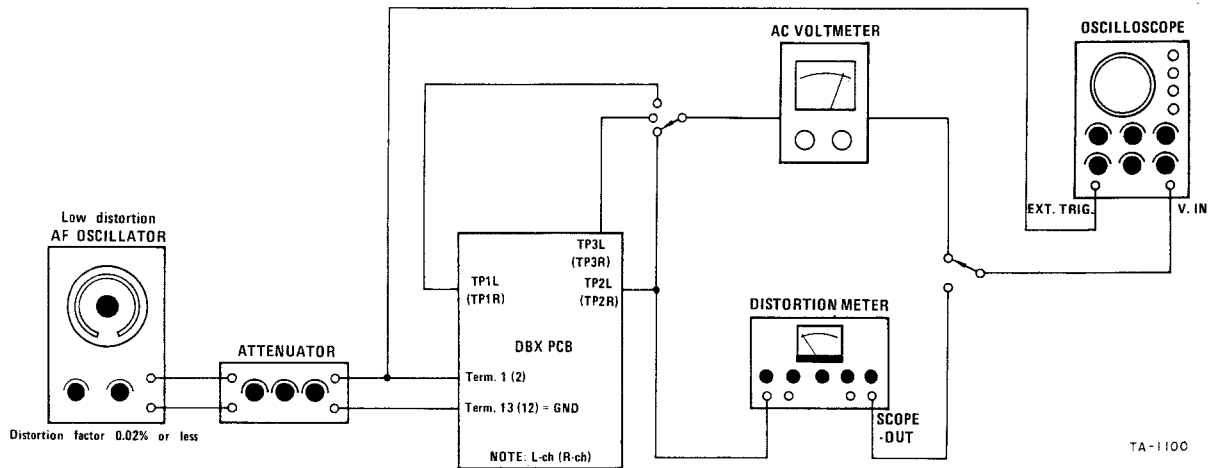


Fig. 5-7

5-6-2 DECODING CHECKS

Check in the play mode without loading tape, and with NR SYSTEM switch in OUT position.

STEP	SIGNAL SOURCE	ADJUST (or CHECK)	MEASURING POINT (on DBX PCB)	RESULT	REMARKS
1	1 kHz/−26.5 dB (36.7 mV)	VR101/VR201	TP1L/TP1R	−2.5 dB (580 mV)	
2	100 Hz/−32 dB (19.5 mV)	VR104/VR204	TP3L/TP3R	Clean 200 Hz sine-wave (*1) (on 'scope thru VTVM)	● RMS SYM adj. ● *1: 100 Hz x 2 ● Refer Fig's 5-8 & 5-9
3	100 Hz/−32 dB	Check	"	0.41 mV ±1 dB (0.365 mV ~ 0.460 mV)	
4	1 kHz/−32 dB	VR106/VR206	TP2L/TP2R	−8 dB (308 mV)	
5	1 kHz/−35 dB (13.8 mV)	VR102/VR202	"	Clean 3 kHz sine-wave (*2) (on 'scope thru distortion meter)	● VCA SYM adj. ● *2: Third harmonic of fundamental (1 kHz) ● Refer Fig's 5-10 & 5-11
6	1 kHz/−35 dB	Check	"	Min. distortion factor (0.1% or less)	
7	1 kHz/−30 dB (24.5 mV)	VR103/VR203	"	Clean 3 kHz sine-wave (*2) (on 'scope thru distortion meter)	● EM adj. ● Refer Fig's 5-10 & 5-11
8	1 kHz/−30 dB	Check	"	Min. distortion factor (0.1% or less)	
9	Repeat steps 4 through 8 until the best result is gotten.				
10	1 kHz/−32 dB (19.5 mV)	VR106/VR206	TP2L/TP2R	−8 dB (308 mV)	Ref. 1
11	100 Hz/−32 dB	Check	"	−1 dB ±1 dB varies from ref. 1	
12	10 kHz/−32 dB	"	"	+9.4 dB ±1 dB varies from ref. 1	
13	1 kHz/−62 dB (615 μV)	"	"	−68 dB ±1 dB (275 μV ~ 346 μV)	
14	1 kHz/−22 dB (61.5 mV)	"	"	+12 dB ±1 dB (2.75 V ~ 3.46 V) and 0.8% or less distortion	
15	1 kHz/−82 dB (61.5 μV)	"	"	−90 dB (24.5 μV) or more	

VR104/VR204 setting

Incorrect

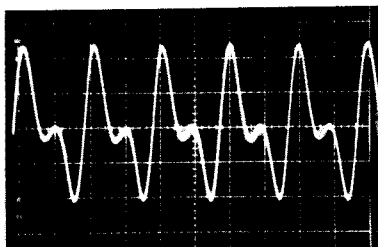


Fig. 5-8

Correct

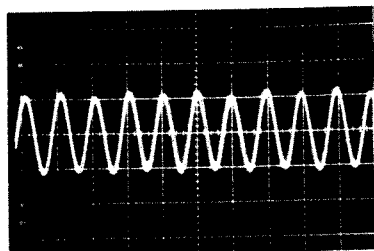


Fig. 5-9

VR102/VR202 and VR103/VR203 setting

Incorrect

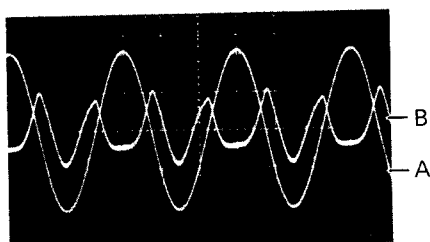


Fig. 5-10

Correct

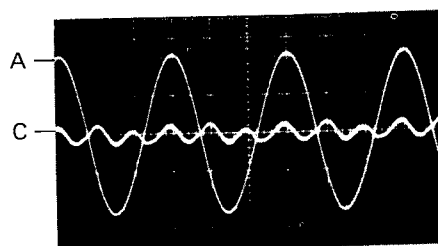


Fig. 5-11

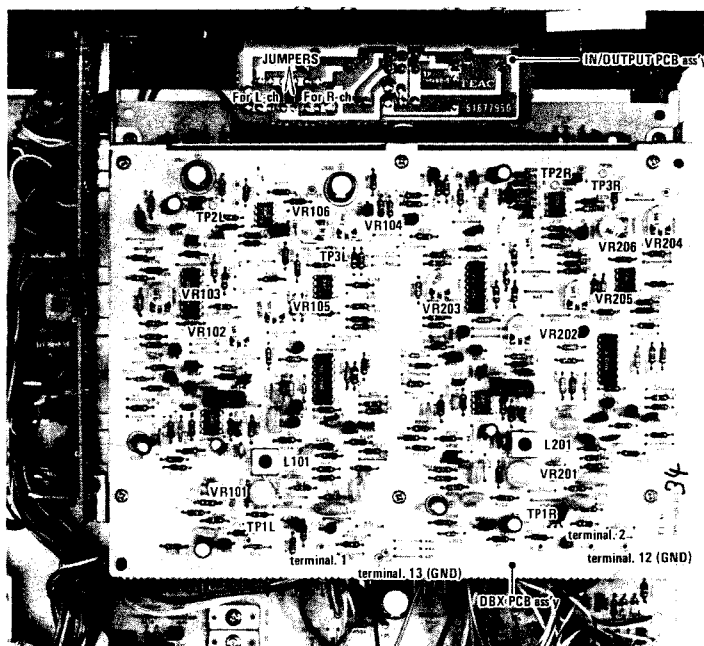
- A: 1 kHz sine-wave (fundamental)
- B: Distortion wave (2 kHz)
- C: 3 kHz sine-wave (third harmonic of fundamental)

5-6-3 ENCODING CHECKS

Check in the record-pause mode with NR SYSTEM switch in OUT position

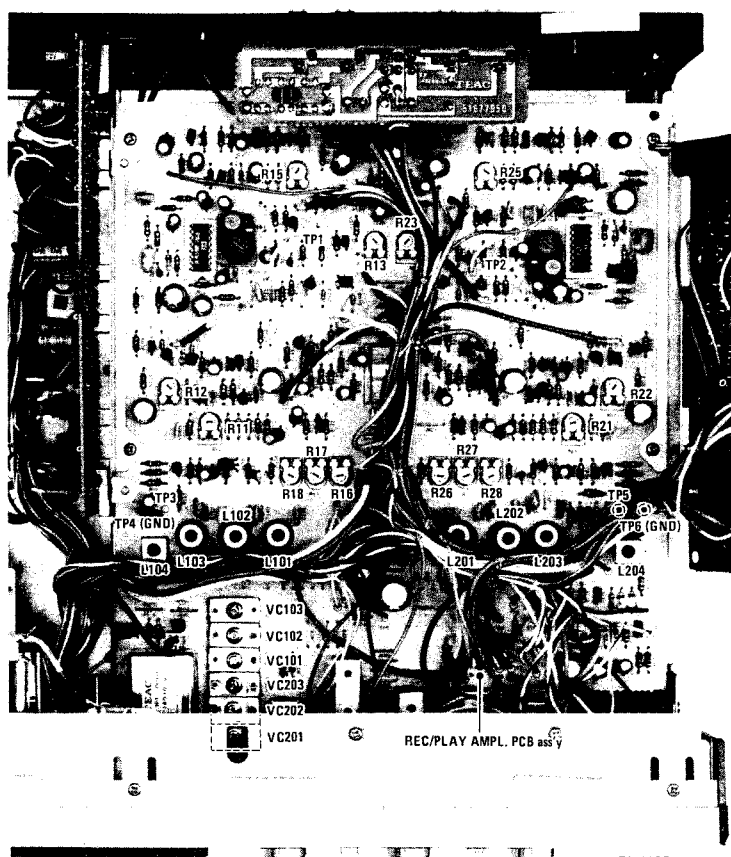
STEP	SIGNAL SOURCE	ADJUST (or CHECK)	MEASURING POINT (on DBX PCB)	RESULT	REMARKS
16	1 kHz/-32 dB (19.5 mV)	VR105/VR205	TP2L/TP2R	-8 dB (308 mV)	Ref. 2
17	100 Hz/-32 dB	Check	"	+0.5 dB $\pm$ 1 dB varies from ref. 2	
18	10 kHz/-32 dB	"	"	-4.7 dB $\pm$ 1 dB varies from ref. 2	
19	1 kHz/-92 dB (19.5 μ V)	"	"	-38 dB $\pm$ 0.5 dB (9.21 mV $\sim$ 10.3 mV)	
20	1 kHz/-12 dB (19.5 μ V)	"	"	+2 dB $\pm$ 0.5 dB (0.921V $\sim$ 1.03 V) and 0.7% or less distortion	

5-7 ADJUSTMENT AND TEST POINT LOCATIONS



TA-1102

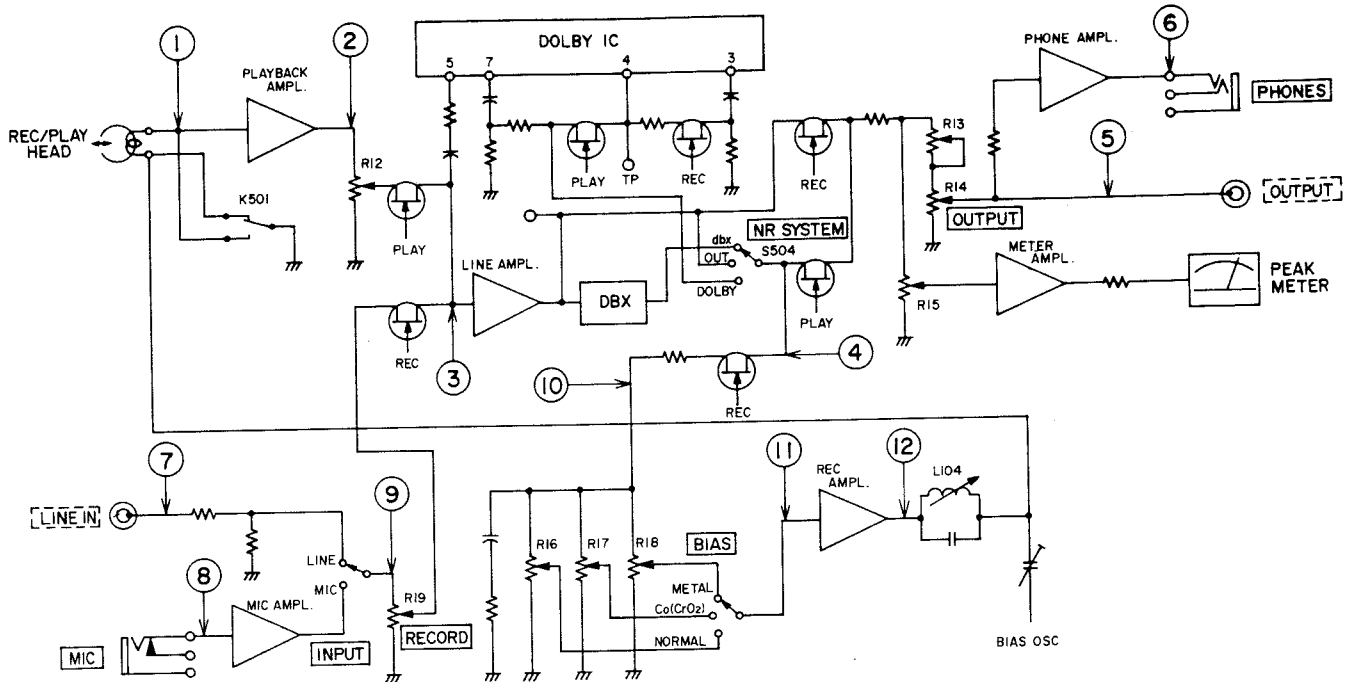
Fig. 5-12



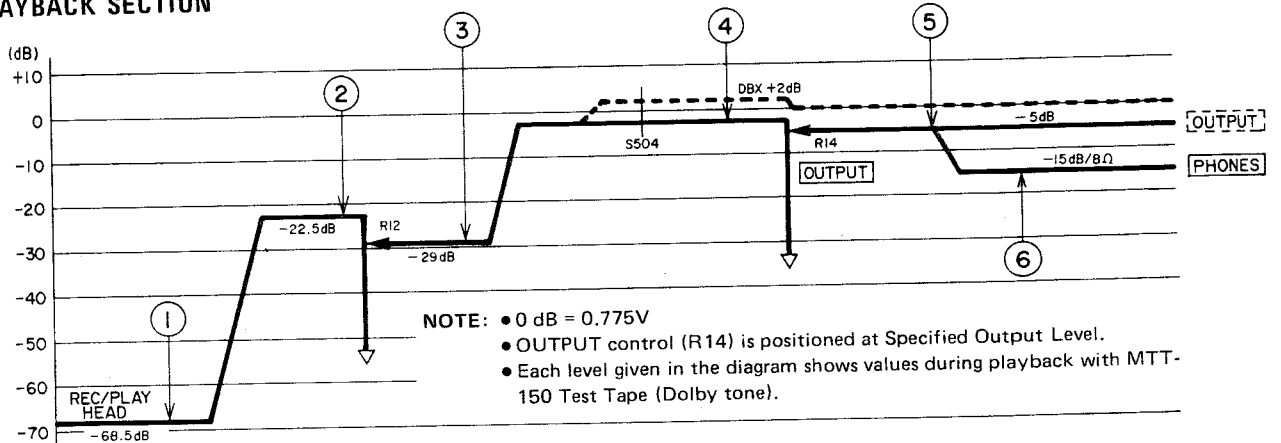
TA-1103

Fig. 5-13

5-8 LEVEL DIAGRAM



PLAYBACK SECTION



RECORDING SECTION

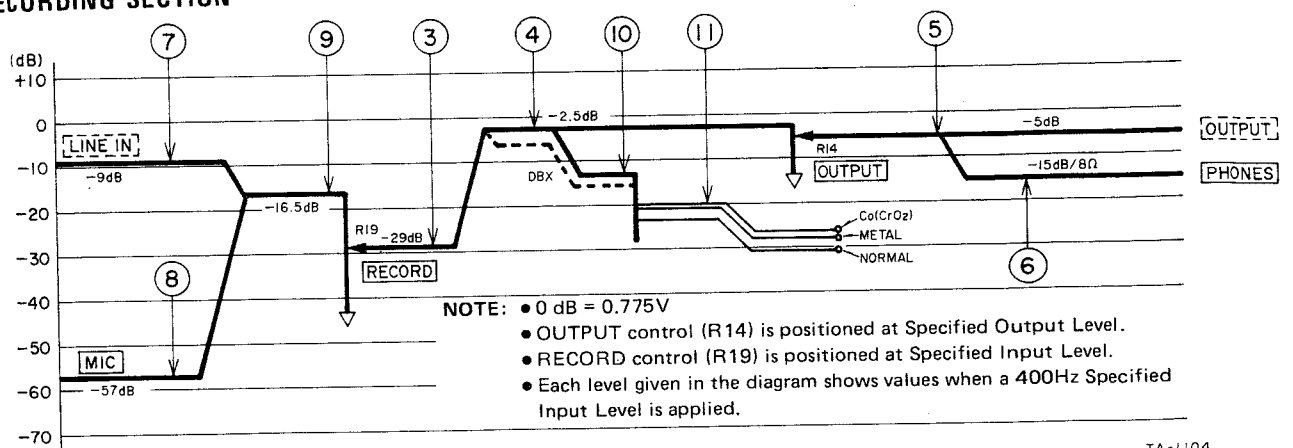
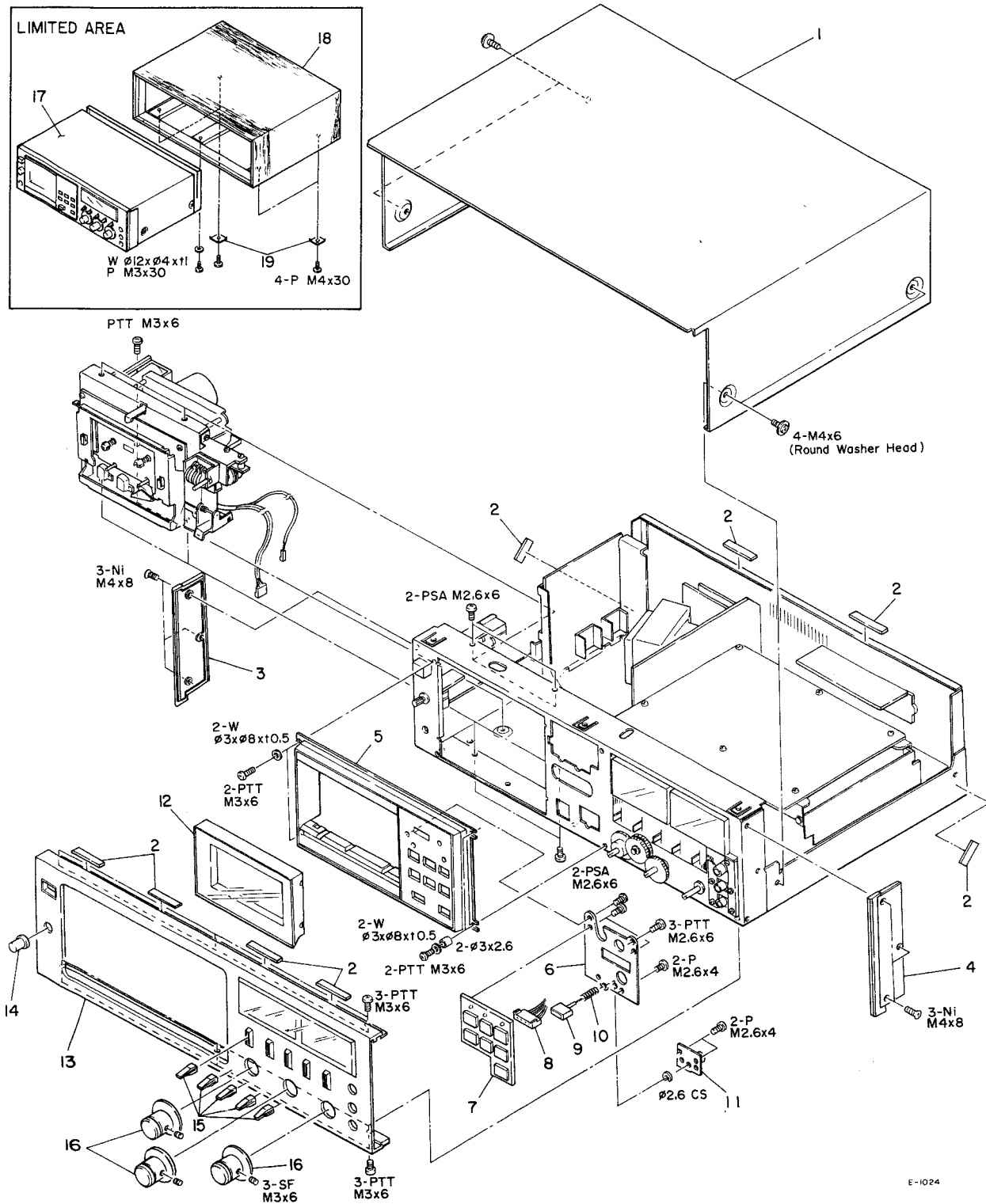


Fig. 5-14

TA-1104

6 EXPLODED VIEW S AND PARTS LIST

EXPLODED VIEW - 1



Parts marked with *require longer delivery time than regular parts.

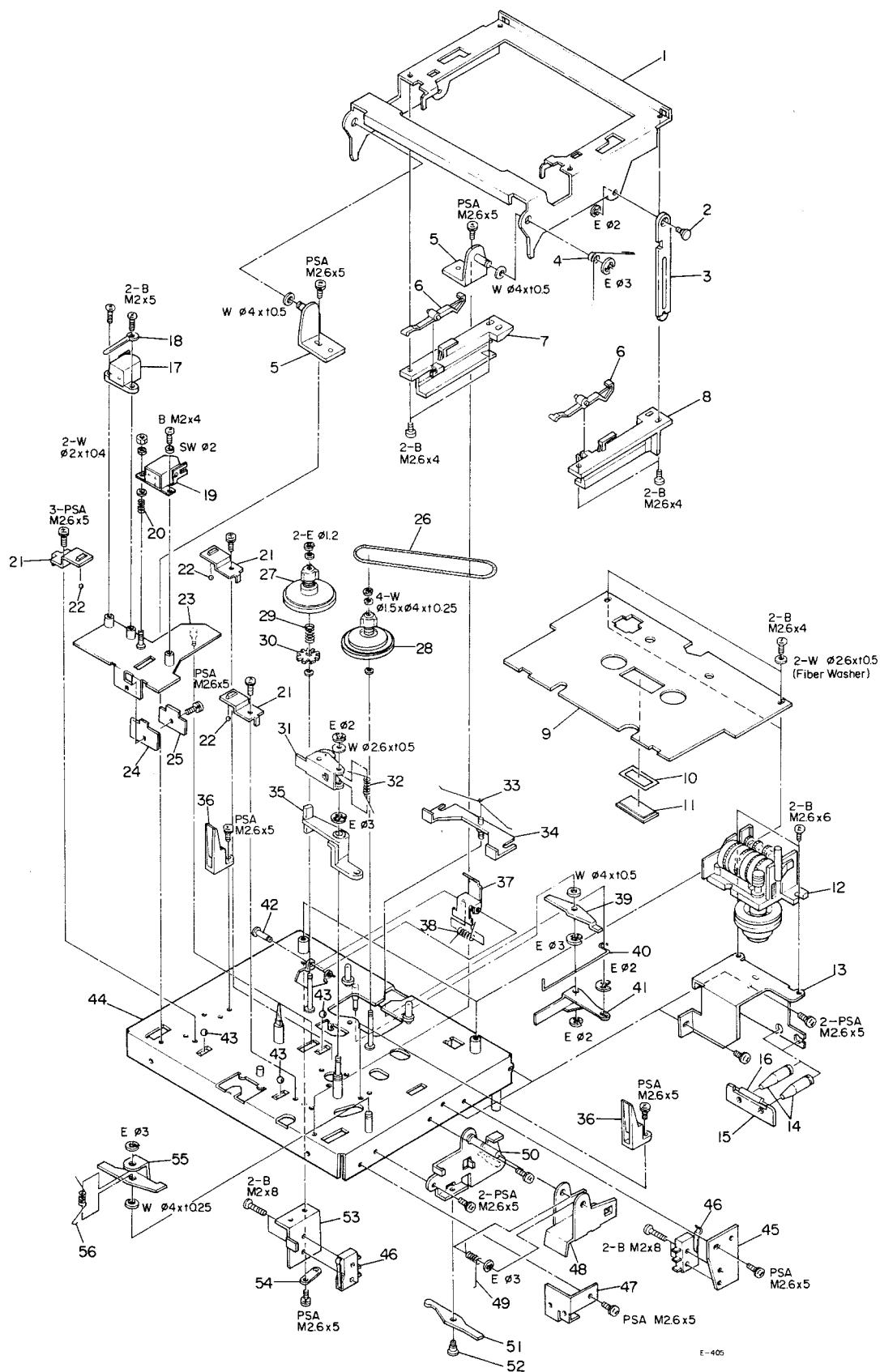
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	*5551032100	Cover, Top	
1 - 2	*5555570000	Cushion, Top Cover	
1 - 3	*5533172000	Sash, Side; B	
1 - 4	*5533171000	Sash, Side; A	
1 - 5	*5531034001	Escutcheon, Cassette	
1 - 6	*5555650000	Plate, Switch Pressure	
1 - 7	*5138009000	Key Unit	
1 - 8	*5122174000	Connector, Socket; 12P	
1 - 9	*5533183002	Button, Eject	
1 - 10	*5524206000	Spring, Switch	
1 - 11	*5534717000	Holder, Button	
1 - 12	5503187100	Cover Assy, Cassette	
1 - 13	5502261000	Panel Assy, Front; A	JAPAN
	5502262000	Panel Assy, Front; B	All except JAPAN
1 - 14	5504712000	Knob Assy, TIMER	
1 - 15	5533120000	Knob, Lever Switch	
1 - 16	5503190000	Knob Assy, C	
1 - 17	*5552383000	Cover, Shield	LIMITED AREA
1 - 18	*5502227000	Case Assy, Wooden	LIMITED AREA
1 - 19	*5555526000	Washer	LIMITED AREA

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5128065000	Cord, Input-output Connection	
	5101369000	Information Supplement, Cassette	JAPAN
	5101345000	Information Supplement, Cassette	U.S.A.
	5101495000	Information Supplement, Cassette	All except JAPAN, U.S.A.
	5101709000	f-550RX Owner's Manual	JAPAN
	5101710000	A-550RX Owner's Manual	U.S.A.
	5101711000	A-550RX Owner's Manual	All except JAPAN, U.S.A.

NOTE: The f-550RX is JAPAN domestic model of the A-550RX.

EXPLODED VIEW - 2



E-405

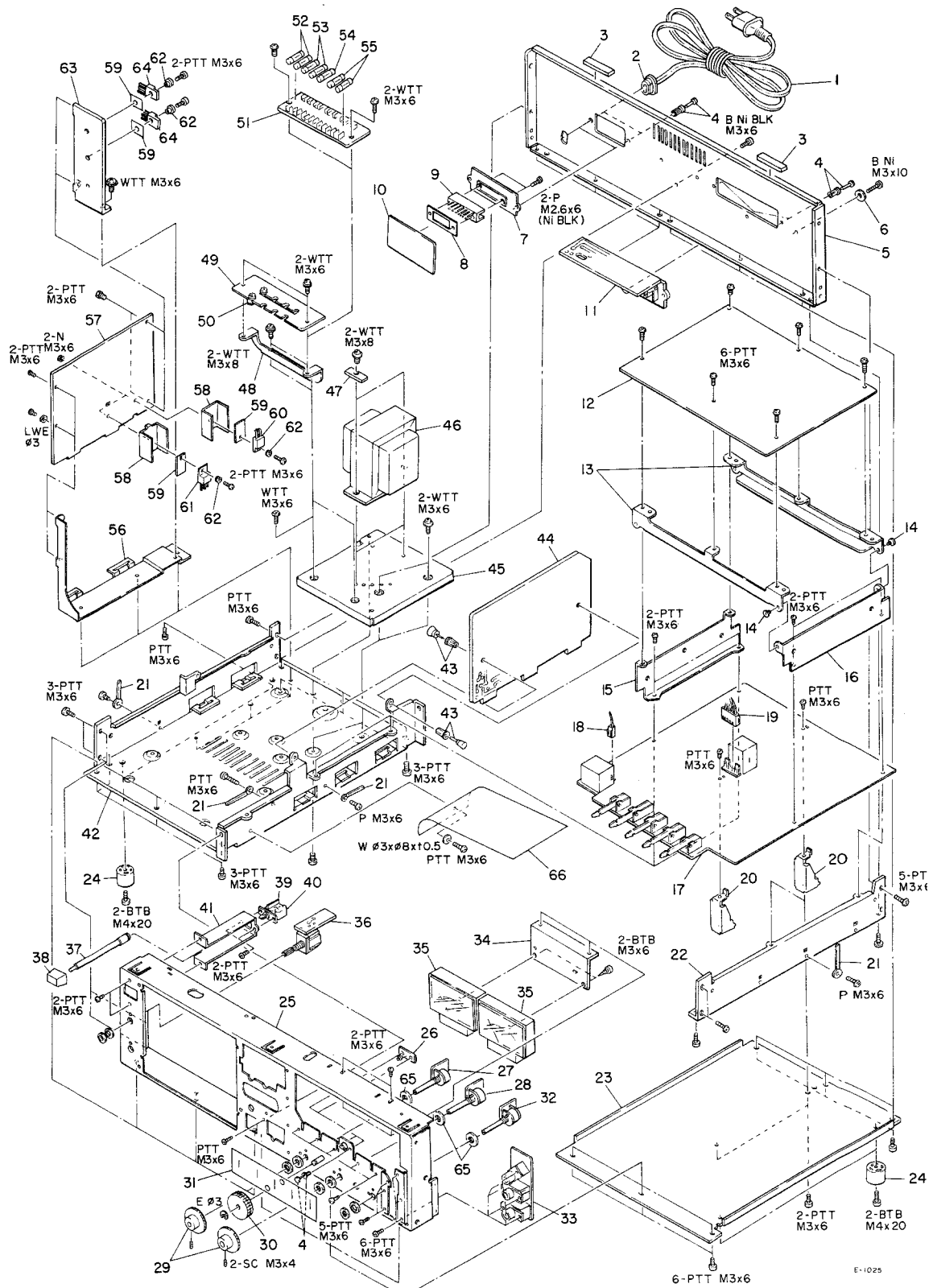
Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	*5553267100	Holder, Cassette	
2 - 2	*5544958000	Shaft, Lock Plate	
2 - 3	*5534612000	Plate, Lock	
2 - 4	*5524202000	Spring, Holder	
2 - 5	*5534615100	Lever, Cassette Pressure	
2 - 6	5534615000	Spring, Cassette Pressure	
2 - 7	5534614000	Guide, Cassette; R	
2 - 8	5534613000	Guide, Cassette; L	
2 - 9	*555554000	Plate, Cassette Holder	
2 - 10	*5555088000	Tape, Adhesive	
2 - 11	*5534443000	Lens, Lamp	
2 - 12	5504660001	Counter Assy	
2 - 13	*5555535000	Bracket, Counter Assy	
2 - 14	*5534448000	Cushion, Rubber	
2 - 15	*5168549000	PCB Assy, REED SWITCH	
	5167549000	PCB, REED SWITCH	Part of 2 - 15
2 - 16	*5138006000	Switch, Reed	Part of 2 - 15
2 - 17	5569613000	Head, Erase	
2 - 18	*5581062000	Clamper, Cord; E	
2 - 19	5569616000	Head, REC/PLAY	
2 - 20	5520002100	Spring, REC/PLAY Head	
2 - 21	*5555533000	Pressure Plate, Head Base Plate	
2 - 22	*5540055000	Steel Ball, $\phi 2$	
2 - 23	*5504656000	Plate Assy, Head Base	
2 - 24	*5555530000	Plate, Head Base; A	
2 - 25	*5555531000	Plate, Head Base; B	
2 - 26	5534617000	Belt, Counter	
2 - 27	5504465000	Reel Table Assy, Supply	
2 - 28	5504464000	Reel Table Assy, Take-up	
2 - 29	*5800016100	Spring, Friction Plate	
2 - 30	*5534304000	Plate, Friction	
2 - 31	5504828001	Arm Assy, Pinch Roller	
2 - 32	*5524193000	Spring, Pinch Roller	
2 - 33	*5520333000	Spring, Brake	
2 - 34	*5504669001	Plate Assy, Brake	
2 - 35	*5534606000	Arm Assy, Pinch Roller Actuating	
2 - 36	*5534444200	Guide, Cassette	
2 - 37	*5555544000	Lever, Safety; D	
2 - 38	*5524197000	Spring, Safety Lever	
2 - 39	*5555546000	Arm, Pressure; B	
2 - 40	*5524196000	Rod, Brake Actuating; A	
2 - 41	*5555541000	Arm, Brake Actuating	
2 - 42	*5544656000	Shaft, Safety Lever	
2 - 43	*5540056000	Steel Ball, $\phi 3$	
2 - 44	*5502206100	Chassis, Mechanism	
2 - 45	*5555548000	Bracket, Switch; B	
2 - 46	5130003000	Switch, Micro	
2 - 47	*5555556000	Angle, Spring	
2 - 48	*5555551000	Arm, Eject	
2 - 49	*5524201000	Spring, Eject Arm	
2 - 50	*5504671000	Holder Assy, Switch	
2 - 51	*5555552000	Arm, Eject	
2 - 52	*5581055000	Screw, Shoulder; D	
2 - 53	*5555543000	Bracket, Switch; A	
2 - 54	*5555197000	Clamper, Cord	
2 - 55	*5555549000	Arm, Eject Preventing	
2 - 56	*5524200000	Spring, Preventing Arm	

Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	7105132000	Motor Assy, DC	
3 - 2	*5581038000	Clamper, Cord; A	
3 - 3	*5555534000	Plate, DC Motor	
3 - 4	*5534277000	Bearing, Flywheel	
3 - 5	*5555555000	Bracket, Damper	
3 - 6	*5504673000	Holder Assy, Damper; C	
3 - 7	*5524203000	Spring, Damper	
3 - 8	*5534537000	Cushion, Rubber	
3 - 9	*5168802100	PCB Assy, JOINT	
3 - 10	*5122174000	Connector, Socket; 12P	
3 - 11	*5122167000	Connector, Socket; 5P	
3 - 12	5163040000	Solenoid, B	
3 - 13	5163039100	Solenoid, A	
3 - 14	*5503182000	Bracket Assy, Solenoid	
3 - 15	*5504666000	Lever Assy, Pause Actuating	
3 - 16	*5524195000	Spring, Pause Actuating	
3 - 17	*5534611000	Arm, Pause Actuating	
3 - 18	*5504665000	Lever Assy, Actuating	
3 - 19	*5524213000	Spring, Actuating; A	
3 - 20	*5534610000	Arm, Head Base Plate Actuating	
3 - 21	*5504668000	Lever Assy, FF; A	
3 - 22	*5555540000	Plate, Brake Actuating; B	
3 - 23	*5520332000	Spring, Lever; B	
3 - 24	5504662000	Arm Assy, FF; C	
3 - 25	*5524194000	Spring, FF Arm; B	
3 - 26	5504663000	Arm Assy, FF; D	
3 - 27	*5555197000	Clamper, Cord	
3 - 28	*5555542000	Bracket, Lamp; A	
3 - 29	5142089000	Lamp	
3 - 30	5504659000	Flywheel Assy, Capstan	
3 - 31	5534446000	Belt, Capstan Drive	
3 - 32	*5550031000	Washer, Thrust	
3 - 33	5534416000	Belt, Fast Wind	
3 - 34	5504091000	Housing Assy, Capstan	
3 - 35	*5534130000	Washer, Oil Retaining	
3 - 36	*5504667000	Lever Assy, Pause	
3 - 37	*5555545000	Arm, Pressure; A	
3 - 38	*5524198000	Spring, Pressure Arm	
3 - 39	5504466100	Pulley Assy, Tension	
3 - 40	5520330000	Spring, Tension	
3 - 41	*5524199000	Spring, Eject	
3 - 42	*5504670000	Lever Assy, Eject	

EXPLODED VIEW - 4



E-1025

Parts marked with *require longer delivery time than regular parts.

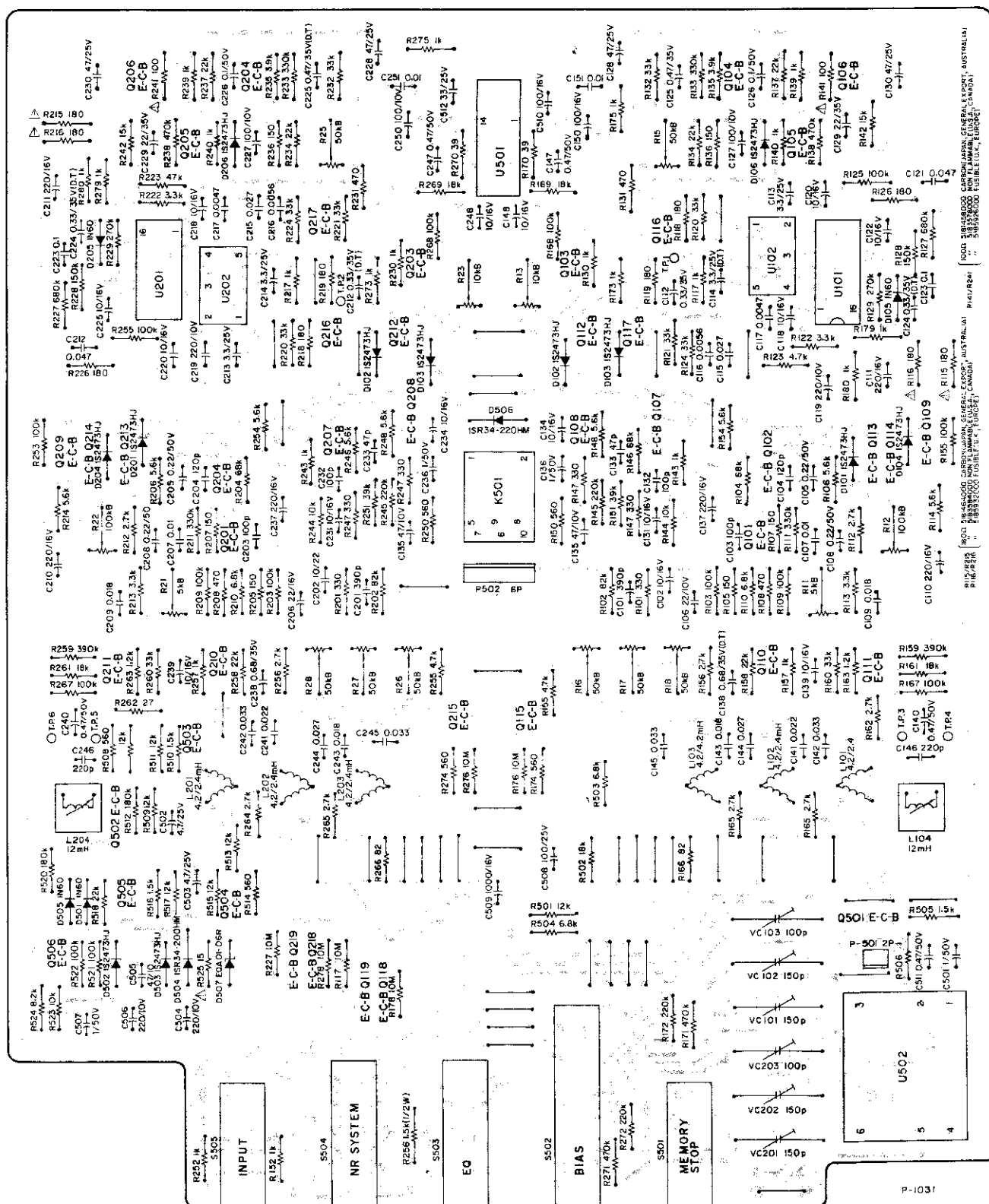
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	△ 5128034000	Cord, AC Power	JAPAN, GENERAL EXPORT
	△ 5128075000	Cord, AC Power	U.S.A., CANADA
	△*5128017000	Cord, AC Power	EUROPE
	△*5128036000	Cord, AC Power	U.K.
	△*5128035000	Cord, AC Power	AUSTRALIA
4 - 2	*5534661000	Strain Relief, AC Power Cord	U.K.
	*5534660000	Strain Relief, AC Power Cord	All except U.K., AUSTRALIA
4 - 3	*5555570000	Cushion, Top Cover; B	
4 - 4	*5534118000	Push Rivet	
4 - 5	*5552339000	Panel, Rear	
4 - 6	*5555063000	Washer GND	
4 - 7	*5534624000	Escutcheon, REMOTE	
4 - 8	*5555566000	Plate, Connector	
4 - 9	*5122336000	Connector, Socket; 12P	
4 - 10	*5168801000	PCB Assy, REMOTE CONTROL	
	*5167801000	PCB, REMOTE CONTROL	Part of 4 - 10
	*5181484000	Carbon Res., 1.2 k ohm ¼W 5%	Part of 4 - 10
4 - 11	*5158151000	PCB Assy, IN/OUTPUT (2)	All except EUROPE
	*5158150000	PCB Assy, IN/OUTPUT (1)	EUROPE
	*5157150000	Terminal Assy, In/Output; w/DIN	Part of 4 - 11, EUROPE
	*5181534000	Carbon Res., 68 k ohm ¼W 5%	Part of 4 - 11
	5126039000	Terminal Assy, In/Output	Part of 4 - 11
	*5181522000	Carbon Res., 47 k ohm ¼W 5%	Part of 4 - 11, EUROPE
4 - 12	*5158094000	PCB Assy, DBX	
4 - 13	*5555881000	Bracket, PCB; B	
4 - 14	*5581056000	Screw Shoulder; A	
4 - 15	*5555882000	Bracket, PCB; L	
4 - 16	*5555883001	Bracket, PCB; R	
4 - 17	*5158088000	PCB Assy, REC/PLAY AMPL.	
4 - 18	*5122164000	Connector, Socket; 2P	
4 - 19	*5122168000	Connector, Socket; 6P	
4 - 20	*5555565200	Bracket, PCB	
4 - 21	*5581038000	Clamper, Cord; A	
4 - 22	*5551031200	Chassis, Side	
4 - 23	*5552340100	Chassis, Bottom	
4 - 24	*5504676000	Foot	
4 - 25	*5503233000	Chassis, Front	
4 - 26	*5158101000	PCB Assy, LED	
	*5157101000	PCB, LED	Part of 4 - 26
	5143314000	LED (RED)	Part of 4 - 26
4 - 27	*5158156000	PCB Assy, INPUT VAR. RES.; (1)	
	*5157156000	PCB, Input VAR. RES.; 119	Part of 4 - 27
	*5150228000	Var. Res., 100 k ohm - A	Part of 4 - 27
4 - 28	*5158157000	PCB Assy, INPUT VAR. RES.; (2)	
	*5157157000	PCB, Input VAR. RES.; 120	Part of 4 - 28
	*5150228000	Var. Res., 100 k ohm - A	Part of 4 - 28
4 - 29	*5504677000	Gear Assy, A	
4 - 30	*5504678000	Gear Assy, Friction	
4 - 31	*5555885000	Mask, Switch	
4 - 32	*5158089000	PCB Assy, OUTPUT VAR. RES.	
	*5157089000	PCB, OUTPUT VAR. RES.	Part of 4 - 32
	5150255000	Var. Res., 20 k ohm - A x 2	Part of 4 - 32
4 - 33	*5158152000	PCB Assy, JACK; 105	All except EUROPE
	*5158090000	PCB Assy, JACK; 104	EUROPE
	*5157152000	PCB, JACK; 105	Part of 4 - 33
	*5157090000	PCB, JACK; 104	Part of 4 - 33, EUROPE
	*5124028100	Jack, MIC; L	Part of 4 - 33, EUROPE
	5124023000	Jack, MIC; R	Part of 4 - 33
	5124022000	Jack, PHONES	Part of 4 - 33
	*5183096000	Carbon Res., 10 k ohm ¼W 5%	Part of 4 - 33
4 - 34	*5555562000	Bracket, Meter	
4 - 35	5165059000	Meter, Peak	

(Continued on page 34)

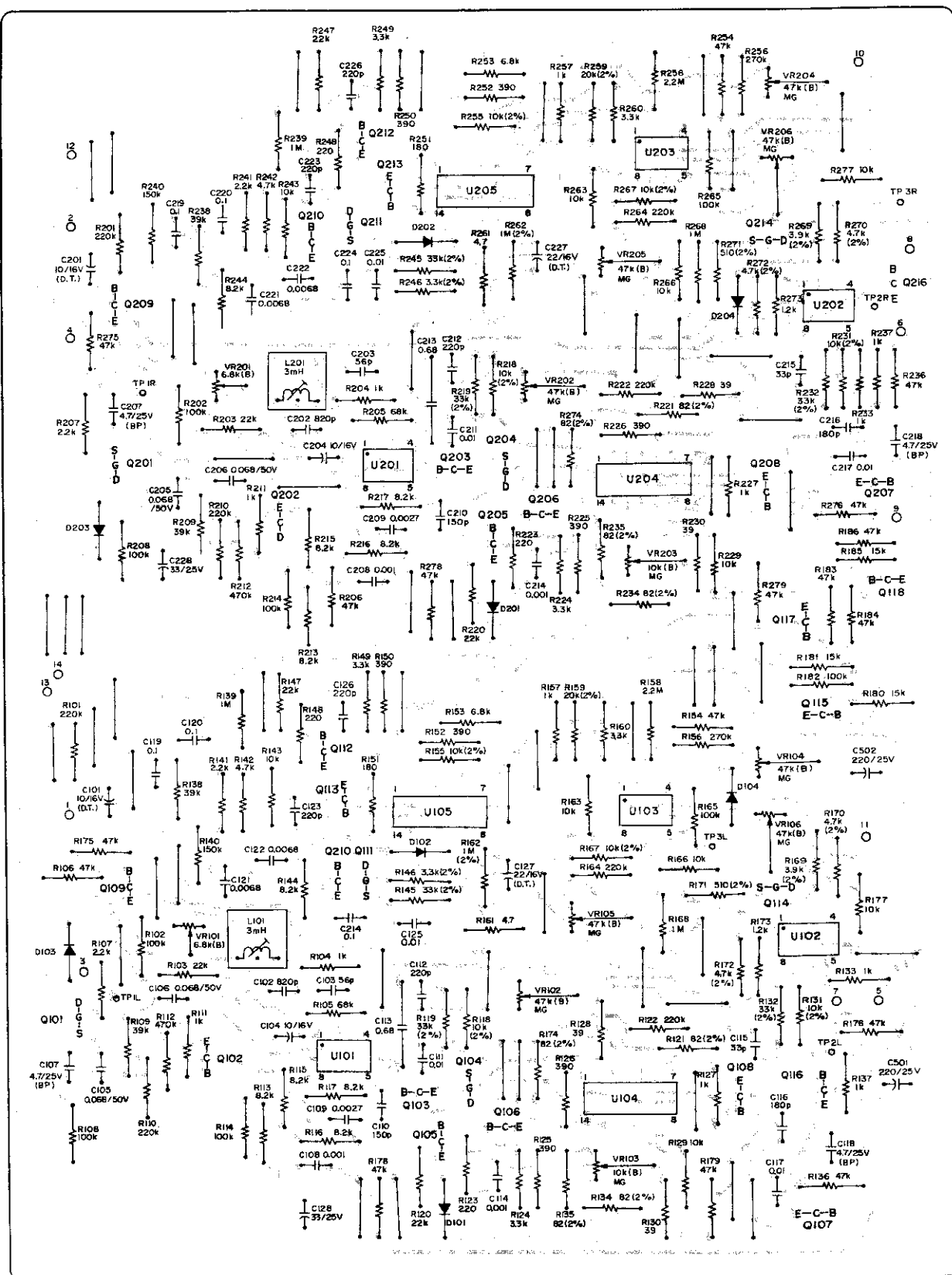
7 PC BOARDS AND PARTS LIST

PC Boards shown viewed from foil side.

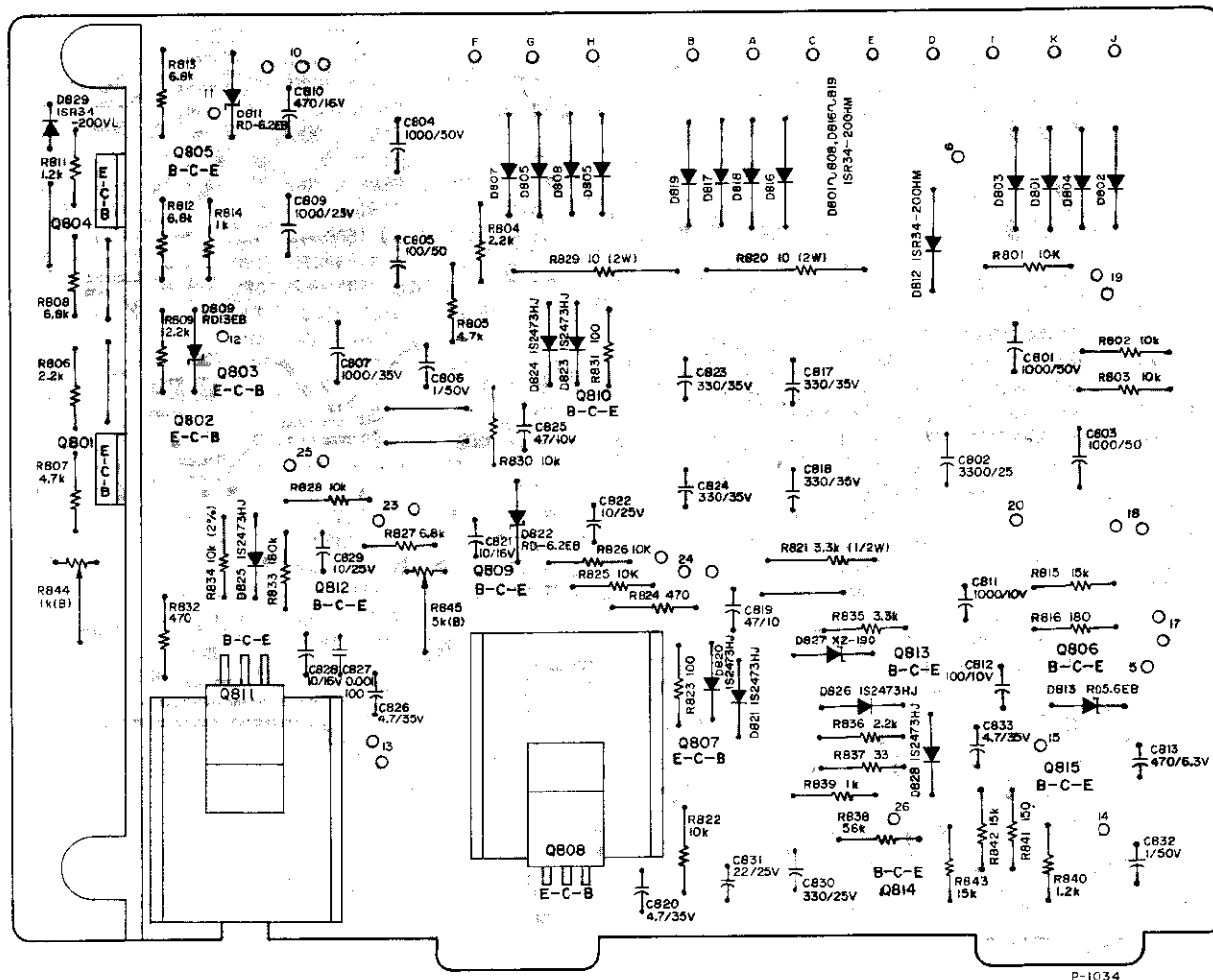
REC AND PLAY PCB ASSY



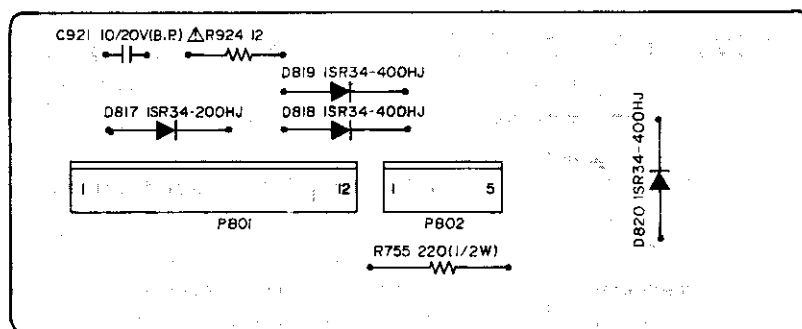
25



POWER SUPPLY PCB ASSY



JOINT PCB ASSY



REC AND PLAY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158088002	PCB Ass'y
	5157088000	PCB
	ICs	
U101, U201	5042728000	Dolby
U501	5147074000	Head phone
	TRANSISTORS	
Q101, Q201	5145034000	2SC900UA
Q102, Q202	5145034000	2SC900UA
Q103, Q203	5042549000	2SC1636-1
Q104, Q204	5145122000	2SC2021LNF(S)
Q105, Q205	5042549000	2SC1636-1
Q106, Q206	5042549000	2SC1636-1
Q107, Q207	5145034000	2SC900UA
Q108, Q208	5145122000	2SC2021LNF(S)
Q109, Q209	5042549000	2SC1636-1
Q110, Q210	5042549000	2SC1636-1
Q111, Q211	5145034000	2SC900UA
Q112, Q212	5042549000	2SC1636-1
Q113, Q213	5145102000	FET, 2SK68AL
Q114, Q214	5145102000	FET, 2SK68AL
Q115, Q215	5145102000	FET, 2SK68AL
Q116, Q216	5145102000	FET, 2SK68AL
Q117, Q217	5145102000	FET, 2SK68AL
Q118, Q218	5145102000	FET, 2SK68AL
Q119, Q219	5145102000	FET, 2SK68AL
Q501	5145098000	2SC1741Q
Q502	5145122000	2SC2021LNF(S)
Q503	5145123000	2SA786LNF(R)
Q504	5145122000	2SC2021LNF(S)
Q505	5145123000	2SA786LNF(R)
Q506	5145123000	2SA786LNF(R)
	DIODES	
D101, D201	5143118000	1S2473HJ
D102, D202	5143118000	1S2473HJ
D103, D203	5143118000	1S2473HJ
D104, D204	5143118000	1S2473HJ
D105, D205	5142213000	1N60
D106, D206	5143118000	1S2473HJ
D501	5042213000	1N60
D502	5143118000	1S2473HJ
D503	5143118000	1S2473HJ
D504	5143113000	1SR34-200HM
D505	5042213000	1N60
D506	5143113000	1SR34-200HM
D507	5143153000	Zener, EQA01-06R
	RESISTORS	
All resistors are rated $\pm 5\%$ tolerance, $\frac{1}{4}$ watt carbon resistors unless otherwise noted.		
R101, R201	5181470000	330 ohm
R102, R202	5181528000	82 k ohm
R103, R203	5181530000	100 k ohm
R104, R204	5181526000	68 k ohm
R105, R205	5181462000	150 ohm
R106, R206	5181500000	5.6 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R107, R207	5181462000	150 ohm
R108, R208	5181474000	470 ohm
R109, R209	5181530000	100 k ohm
R110, R210	5181506000	6.8 k ohm
R111, R211	5181542000	330 k ohm
R112, R212	5181492000	2.7 k ohm
R113, R213	5181494000	3.3 k ohm
R114, R214	5181500000	5.6 k ohm
R115, R215	△5181464000	180 ohm
R116, R216	△5181464000	180 ohm
R117, R217	5181482000	1 k ohm
R118, R218	5181464000	180 ohm
R119, R219	5181464000	180 ohm
R120, R220	5181518000	33 k ohm
R121, R221	5181518000	33 k ohm
R122, R222	5181494000	3.3 k ohm
R123, R223	5181522000	47 k ohm
R124, R224	5181518000	33 k ohm
R125, R225	5181530000	100 k ohm
R126, R226	5181464000	180 ohm
R127, R227	5181550000	680 k ohm
R128, R228	5181534000	150 k ohm
R129, R229	5181540000	270 k ohm
R130, R230	5181482000	1 k ohm
R131, R231	5181474000	470 ohm
R132, R232	5181518000	33 k ohm
R133, R233	5181542000	330 k ohm
R134, R234	5181514000	22 k ohm
R135, R235	5181496000	3.9 k ohm
R136, R236	5181462000	150 ohm
R137, R237	5181514000	22 k ohm
R138, R238	5181546000	470 k ohm
R139, R239	5181482000	1 k ohm
R140, R240	5181482000	1 k ohm
R141, R241	△5181458000	100 ohm
R142, R242	5181510000	15 k ohm
R143, R243	5181482000	1 k ohm
R144, R244	5181506000	10 k ohm
R145, R245	5181538000	220 k ohm
R146, R246	5181526000	68 k ohm
R147, R247	5181470000	330 ohm
R148, R248	5181500000	5.6 k ohm
R149, R249	5181470000	330 ohm
R150, R250	5181476000	560 ohm
R151, R251	5181520000	39 k ohm
R152, R252	5181482000	1 k ohm
R153, R253	5181530000	100 k ohm
R154, R254	5181500000	5.6 k ohm
R155, R255	5181498000	4.7 k ohm
R156, R256	5181492000	2.7 k ohm
R157, R257	5181482000	1 k ohm
R158, R258	5181514000	22 k ohm
R159, R259	5181544000	390 k ohm
R160, R260	5181518000	33 k ohm
R161, R261	5181512000	18 k ohm
R162, R262	5181444000	27 ohm
R163, R263	5181484000	1.2 k ohm
R164, R264	5181492000	2.7 k ohm
R165, R265	5181492000	2.7 k ohm
R166, R266	5181456000	82 ohm
R167, R267	5181530000	100 k ohm
R168, R268	5181530000	100 k ohm
R169, R269	5181512000	18 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R170, R270	5181448000	39 ohm
R171, R271	5181546000	470 k ohm
R172, R272	5181538000	220 k ohm
R173, R273	5181482000	1 k ohm
R174, R274	5181476000	560 ohm
R175, R275	5181482000	1 k ohm
R176, R276	5181568000	10 M ohm
R177, R277	5181568000	10 M ohm
R178, R278	5181568000	10 M ohm
R179, R279	5181482000	1 k ohm
R180, R280	5181482000	1 k ohm
R501	5181508000	12 k ohm
R502	5181512000	18 k ohm
R503	5181506000	6.8 k ohm
R504	5181506000	6.8 k ohm
R505	5181486000	1.5 k ohm
R506	5181410000	1 ohm
R507	5181508000	12 k ohm
R508	5181476000	560 ohm
R509	5181508000	12 k ohm
R510	5181486000	1.5 k ohm
R511	5181508000	12 k ohm
R512	5181536000	180 k ohm
R513	5181508000	12 k ohm
R514	5181476000	560 ohm
R515	5181508000	12 k ohm
R516	5181486000	1.5 k ohm
R517	5181508000	12 k ohm
R518	5181514000	22 k ohm
R520	5181536000	180 k ohm
R521	5181530000	100 k ohm
R522	5181530000	100 k ohm
R523	5181496000	10 k ohm
R524	5181504000	8.2 k ohm
R525	△5181828000	15 ohm Non Flammable
R526	5180086000	1.5 k ohm ½W

CAPACITORS

C101, R201	5172219000	Ceramic	390 pfd	50V
C102, C202	5173571800	Elec.	10 mfd	16V 20% (MD)
C103, C203	5172212000	Ceramic	100 pfd	50V
C104, C204	5172213000	Ceramic	120 pfd	50V
C105, C205	5173552800	Elec.	0.22 mfd	50V 20% (MD)
C106, C206	5173017800	Elec.	22 mfd	10V (USM)
C107, C207	5171856800	Mylar	0.01 mfd	100V 5%
C108, C208	5173552800	Elec.	0.22 mfd	50V (MD)
C109, C209	5171862800	Mylar	0.018 mfd	100V 5%
C110, C210	5173054800	Elec.	220 mfd	16V (USM)
C111, C211	5173054800	Elec.	220 mfd	16V (USM)
C112, C212	5170300100	Dip. Tant.	0.33 mfd	35V 10%
C113, C213	5173561800	Elec.	3.3 mfd	25V (MD)
C114, C214	5173561800	Elec.	3.3 mfd	25V (MD)
C115, C215	5171866800	Mylar	0.027 mfd	100V 5%
C116, C216	5170370800	Mylar	0.0056 mfd	100V 5%
C117, C217	5170368800	Mylar	0.0047 mfd	100V 5%
C118, C218	5173010800	Elec.	10 mfd	16V (USM)
C119, C219	5173053800	Elec.	220 mfd	10V (USM)
C120, C220	5173010800	Elec.	10 mfd	16V (USM)
C121, C221	5171872800	Mylar	0.047 mfd	100V 5%
C122, C222	5173010800	Elec.	10 mfd	16V (USM)
C123, C223	5171878800	Mylar	0.1 mfd	100V 5%
C124, C224	5170300100	Dip. Tant.	0.33 mfd	35V 10%

C125, C225	5054668100	Dip. Tant.	0.47 mfd	35V
C126, C226	5173550800	Elec.	0.1 mfd	50V (MD)
C127, C227	5173044800	Elec.	100 mfd	10V (USM)
C128, C228	5173037800	Elec.	47 mfd	25V (USM)
C129, C229	5173020800	Elec.	22 mfd	35V (USM)
C130, C230	5173037800	Elec.	47 mfd	25V (USM)
C131, C231	5173010800	Elec.	10 mfd	16V (USM)
C132, C232	5172212000	Ceramic	100 pfd	50V
C133, C233	5172208000	Ceramic	47 pfd	50V
C134, C234	5173010800	Elec.	10 mfd	16V (USM)
C135, C235	5173035800	Elec.	47 mfd	10V (USM)
C136, C236	5173556800	Elec.	1 mfd	50V (MD)
C137, C237	5173054800	Elec.	220 mfd	16V (USM)
C138, C238	5054669100	Dip. Tant.	0.68 mfd	35V 10%
C139, C239	5173010800	Elec.	10 mfd	16V (USM)
C140, C240	5173554800	Elec.	0.47 mfd	50V (MD)
C141, C241	5171862800	Mylar	0.018 mfd	100V 5%
C142, C242	5171866800	Mylar	0.027 mfd	100V 5%
C143, C243	5171864800	Mylar	0.022 mfd	100V 5%
C144, C244	5171868800	Mylar	0.033 mfd	100V 5%
C145, C245	5171868800	Mylar	0.033 mfd	100V 5%
C146, C246	5054745000	Dip. Mica	220 pfd	50V
C147, C247	5173554800	Elec.	0.47 mfd	50V (MD)
C148, C248	5173010800	Elec.	10 mfd	16V (USM)
C150, C250	5173045800	Elec.	100 mfd	16V (USM)
C151, C251	5171856800	Mylar	0.01 mfd	100V 5%
C501	5172992800	Elec.	1 mfd	50V (USM)
C502	5173564800	Elec.	4.7 mfd	25V (MD)
C503	5173564800	Elec.	4.7 mfd	25V (USM)
C504	5173054800	Elec.	220 mfd	16V (USM)
C505	5173035800	Elec.	47 mfd	10V (USM)
C506	5173053800	Elec.	220 mfd	10V (USM)
C507	5172992800	Elec.	1 mfd	50V (USM)
C508	5173046800	Elec.	100 mfd	25V (USM)
C509	5173081800	Elec.	1000 mfd	16V (USM)
C511	5173554800	Elec.	0.47 mfd	50V (MD)
C512	5173028800	Elec.	33 mfd	25V (USM)

VARIABLE RESISTORS

R11, R21	5150097000	Semi-fixed, 5 k ohm - B
R12, R22	5150096000	Semi-fixed, 100 k ohm - B
R13, R23	5150092000	Semi-fixed, 10 k ohm - B
R15, R25	5150094000	Semi-fixed, 50 k ohm - B
R16, R26	5150094000	Semi-fixed, 50 k ohm - B
R17, R27	5150094000	Semi-fixed, 50 k ohm - B
R18, R28	5150094000	Semi-fixed, 50 k ohm - B

T TRIMMER CAPACITORS

VC101, VC102	5170017000	150 pfd MAX
VC102, VC202	5170017000	150 pfd MAX
VC103, VC203	5170017000	150 pfd MAX

MISCELLANEOUS

U102, U202	5160060000	MPx Filter Unit
L101, L201	5056637000	Coil, Rec EQ; 4.2/24 mH
L102, L202	5056037000	Coil, Rec EQ; 4.2/24 mH
L103, L203	5056037000	Coil, Rec EQ; 4.2/24 mH
L104, L204	5056655000	Coil, Trap; 12 mH
S501,	5132037000	Switch, Lever; DPDT
S502	5132038000	Switch, Lever; 6P3T
S503	5132034000	Switch, Lever; 4P3T

REF. NO.	PARTS NO.	DESCRIPTION
S504	5132640000	Switch, Lever; 4P3T
S505	5132039000	Switch, Lever, 4PDT
U502	5040101000	Bias Oscillator Unit, 100 k Hz
K501	5061142000	Relay, DPDT
P501	5122126000	Connector, Plug; 2P
P502	5122130000	Connector, Plug; 6P

DBX PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158094000	PCB Assy
	5157094000	PCB
	ICs	
U101, U201	5147024000	4558DF
U102, U202	5147024000	4558DF
U103, U203	5147024000	4558DF
U104, U204	5147020000	BA651
U105, U205	5147021100	BA652

TRANSISTORS

Q101, Q202	5145103000	FET, 2SK68AM
Q102, Q202	5042495000	2SC1222E
Q103, Q203	5042549000	2SC1636-1
Q104, Q204	5042548000	FET, 2SK30A(0)
Q105, Q205	5042495000	2SC1222E
Q106, Q206	5145038000	2SA750E
Q107, Q207	5042549000	2SC1636-1
Q108, Q208	5042549000	2SC1636-1
Q109, Q209	5042549000	2SC1636-1
Q110, Q210	5042495000	2SC1222E
Q111, Q211	5042548000	FET, 2SK30A(0)
Q112, Q212	5042495000	2SC1222E
Q113, Q213	5145038000	2SA750E
Q114, Q214	5145103000	FET, 2SK68AM
Q115	5145092000	2SC1740LN(S)
Q116, Q216	5042549000	2SC1636-1
Q117	5145038000	2SA750E
Q118	5145092000	2SC1740LN(S)

DIODES

D101, D201	5143118000	1S2473HJ
D102, D202	5143118000	1S2473HJ
D103, D203	5143118000	1S2473HJ
D104, D204	5143118000	1S2473HJ

CARBON RESISTORS

All resistors are rated $\pm 5\%$ and $\frac{1}{4}$ watt unless otherwise noted.

R101, R201	5181538000	220 k ohm
R102, R202	5181530000	100 k ohm
R103, R203	5181514000	22 k ohm
R104, R204	5181482000	1 k ohm
R105, R205	5181526000	68 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R106, R206	5181522000	47 k ohm
R107, R207	5181490000	2.2 k ohm
R108, R208	5181530000	100 k ohm
R109, R209	5181520000	39 k ohm
R110, R210	5181538000	220 k ohm
R111, R211	5181482000	1 k ohm
R112, R212	5181546000	470 k ohm
R113, R213	5181504000	8.2 k ohm
R114, R214	5181530000	100 k ohm
R115, R215	5181504000	8.2 k ohm
R116, R216	5181504000	8.2 k ohm
R117, R217	5181504000	8.2 k ohm
R118, R218	5184956000	10 k ohm 2%
R119, R219	5184968000	33 k ohm 2%
R120, R220	5181514000	22 k ohm
R121, R221	5184906000	82 ohm 2%
R122, R222	5181538000	220 k ohm
R123, R223	5181466000	220 ohm
R124, R224	5181494000	3.3 k ohm
R125, R225	5181472000	390 ohm
R126, R226	5181472000	390 ohm
R127, R227	5181482000	1 k ohm
R128, R228	5181448000	39 k ohm
R129, R229	5181506000	10 k ohm
R130, R230	5181448000	39 ohm
R131, R231	5184956000	10 k ohm 2%
R132, R232	5184968000	33 k ohm
R133, R233	5181482000	1 k ohm
R134, R234	5184906000	82 ohm 2%
R135, R235	5184906000	82 ohm 2%
R136, R236	5181522000	47 k ohm
R137, R237	5181482000	1 k ohm
R138, R238	5181520000	39 k ohm
R139, R239	5181554000	1 M ohm
R140, R240	5181534000	150 k ohm
R141, R241	5181490000	2.2 k ohm
R142, R242	5181498000	4.7 k ohm
R143, R243	5181506000	10 k ohm
R144, R244	5181504000	8.2 k ohm
R145, R245	5184968000	33 k ohm 2%
R146, R246	5184944000	3.3 k ohm
R147, R247	5181514000	22 k ohm
R148, R248	5181466000	220 ohm
R149, R249	5181494000	3.3 k ohm
R150, R250	5181472000	390 ohm
R151, R251	5181464000	180 ohm
R152, R252	5181472000	390 ohm
R153, R253	5181502000	6.8 k ohm
R154, R254	5181522000	47 k ohm
R155, R255	5184956000	10 k ohm 2%
R156, R256	5181540000	270 k ohm
R157, R257	5181482000	1 k ohm
R158, R258	5181562000	2.2 M ohm
R159, R259	5184963000	20 k ohm 2%
R160, R260	5181494000	3.3 k ohm
R161, R261	5181426000	4.7 ohm
R162, R262	5185004000	1 M ohm 2%
R163, R263	5181506000	10 k ohm
R164, R264	5181538000	220 k ohm
R165, R265	5181530000	100 k ohm
R166, R266	5181506000	10 k ohm
R167, R267	5184956000	10 k ohm 2%
R168, R268	5181554000	1 M ohm
R169, R269	5184946000	3.9 k ohm 2%

CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
R170, R270	5184948000	4.7 k ohm
R171, R271	5184925000	510 ohm
R172, R272	5184948000	4.7 k ohm
R173, R273	5181484000	1.2 k ohm
R174, R274	5184906000	82 ohm 2%
R175, R275	5181522000	47 k ohm
R176, R276	5181522000	47 k ohm
R177, R277	5181506000	10 k ohm
R178, R278	5181522000	47 k ohm
R179, R279	5181522000	47 k ohm
R180	5181510000	15 k ohm
R181	5181510000	15 k ohm
R182	5181530000	100 k ohm
R183	5181522000	47 k ohm
R184	5181522000	47 k ohm
R185	5181510000	15 k ohm
R186	5181522000	47 k ohm

CAPACITORS

C101, C201	5054656100	Dip. Tant	10 mfd	16V
C102, C202	5173771000	Polyst.	820 pfd	100V 5%
C103, C203	5172209000	Ceramic	56 pfd	50V
C104, C204	5173010800	Elec.	10 mfd	16V (USM)
C105, C205	5171876800	Mylar	0.068 mfd	100V 5%
C106, C206	5171876800	Mylar	0.068 mfd	100V 5%
C107, C207	5055909000	Elec.	4.7 mfd	25V B.P.
C108, C208	5170352800	Mylar	0.001 mfd	100V 5%
C109, C209	5170362800	Mylar	0.0027 mfd	100V 5%
C110, C210	5172214000	Ceramic	150 pfd	50V
C111, C211	5171856800	Mylar	0.01 mfd	100V 5%
C112, C212	5172216000	Ceramic	220 pfd	50V
C113, C213	5173800000	Polyester	0.68 mfd	10V 10%
C114, C214	5170352800	Mylar	0.001 mfd	100V 5%
C115, C215	5172206000	Ceramic	33 pfd	50V
C116, C216	5172212500	Ceramic	180 pfd	50V
C117, C217	5181856800	Mylar	0.01 mfd	100V 5%
C118, C218	5055909000	Elec.	4.7 mfd	25V B.P.
C119, C219	5171878800	Mylar	0.1 mfd	100V 5%
C120, C220	5171878800	Mylar	0.1 mfd	100V 5%
C121, C221	5170372800	Mylar	0.0068 mfd	100V 5%
C122, C222	5170372800	Mylar	0.0068 mfd	100V 5%
C123, C223	5172216000	Ceramic	220 pfd	50V 5%
C124, C224	5171878800	Mylar	0.1 mfd	100V 5%
C125, C225	5171856800	Mylar	0.01 mfd	100V 5%
C126, C226	5182216000	Ceramic	220 pfd	50V
C127, C227	5054658100	Dip. Tant.	22 mfd	16V
C128, C228	5173028800	Elec.	33 mfd	25V (USM)
C501	5173055800	Elec.	220 mfd	25V (USM)
C502	5173055800	Elec.	220 mfd	25V (USM)

VARIABLE RESISTORS

VR101, VR201	5053358000	Semi-fixed, 6.8 k ohm - B
VR102, VR202	5150279000	Semi-fixed, 50 k ohm - B
VR103, VR203	5150274000	Semi-fixed, 10 k ohm - B
VR104, VR204	5150279000	Semi-fixed, 50 k ohm - B
VR105, VR205	5150279000	Semi-fixed, 50 k ohm - B
VR106, VR206	5150279000	Semi-fixed, 50 k ohm - B

MISCELLANEOUS

L101, L201	5056659000	Coil, Trap; 3 mH
TP	5544750000	Pin, Combination

CONTROL PCB ASSY

	5158098000	PCB Assy
	5167797200	PCB
	IC	
U601	5147047000	M-54410P
	TRANSISTORS	
Q601~Q603	5145092000	2SC1740LN(S)
Q604	5145133000	2SC1645(B)
Q605	5042549000	2SC1636-1
Q606, Q607	5145092000	2SC1740LN(S)
Q609	5145092000	2SC1740LN(S)
Q610	5145131000	2SA933LN(R)
Q611	5145092000	2SC1740LN(S)
Q613	5145098000	2SC1741Q
Q614	5145131000	2SA933LN(R)
Q615, Q616	5145087000	2SD313(E)
Q617, Q618	5145131000	2SA933LN(R)
Q619	5145092000	2SC1740LN(S)
Q620, Q621	5145087000	2SD313(E)
Q622, Q623	5145131000	2SA933LN(R)
Q624	5145087000	2SD313(E)
Q625	5145131000	2SA933LN(R)
Q626	5145087000	2SD313(E)
Q627~Q630	5145092000	2SC1740LN(S)
Q631	5145131000	2SA933LN(R)
R632, R633	5145092000	2SC1740LN(S)
Q636~Q640	5145092000	2SC1740LN(S)
Q641	5145131000	2SA933LN(R)
Q642	5145092000	2SC1740LN(S)

DIODES

D601~D612	5143118000	IS2473HJ
D614~D627	5143118000	IS2473HJ
D629	5143118000	IS2473HJ
D630, D631	5143113000	ISR34-200HM
D632~D634	5143118000	IS2473HJ
D635	5143113000	ISR34-200HM
D636~D641	5143118000	IS2473HJ
D643	5143129000	Zener, RD-5.6EB
D644~D649	5143118000	IS2473HJ

CARBON RESISTORS

All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}$ watt.

R601	5181488000	1.8 k ohm
R602~R609	5181446000	33 ohm
R610	5181498000	4.7 k ohm
R611	5181488000	1.8 k ohm
R612	5181476000	560 ohm
R613	5181506000	10 k ohm
R614	5181498000	4.7 k ohm
R615	5181482000	1 k ohm
R616	5181536000	180 k ohm
R617	5181498000	4.7 k ohm
R618	5181478000	680 ohm
R619	5181506000	10 k ohm
R620	5181498000	4.7 k ohm
R621	5181508000	12 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R622	5181506000	10 k ohm
R623	5181508000	12 k ohm
R624	5181506000	10 k ohm
R625	5181492000	2.7 k ohm
R626	5181502000	6.8 k ohm
R627	5181506000	10 k ohm
R628	5181492000	2.7 k ohm
R629	5181502000	6.8 k ohm
R630	5181506000	10 k ohm
R631	5181498000	4.7 k ohm
R632	5181502000	6.8 k ohm
R633	5181508000	12 k ohm
R634	5181486000	1.5 k ohm
R635	5181522000	47 k ohm
R636	5181508000	12 k ohm
R637, R638	5181482000	1 k ohm
R639	5181486000	1.5 k ohm
R640	5181502000	6.8 k ohm
R641	5181486000	1.5 k ohm
R642	5181508000	12 k ohm
R643	5181466000	220 ohm
R644	5181490000	2.2 k ohm
R645	5181510000	15 k ohm
R646	5181482000	1 k ohm
R647	5181486000	1.5 k ohm
R648	5181508000	12 k ohm
R649	5181462000	150 ohm
R650	5181482000	1 k ohm
R651	5181494000	3.3 k ohm
R652	5181510000	15 k ohm
R653	5181502000	6.8 k ohm
R654	5181488000	1.8 k ohm
R655	5181470000	330 ohm
R656	5181520000	39 k ohm
R657, R658	5181492000	2.7 k ohm
R659	5181476000	560 ohm
R660	5181492000	2.7 k ohm
R661	5181502000	6.8 k ohm
R662	5181470000	330 ohm
R653, R664	5181492000	2.7 k ohm
R665	5181476000	560 ohm
R666, R667	5181502000	6.8 k ohm
R668	5181488000	1.8 k ohm
R669	5181470000	330 ohm
R670, R671	5181492000	2.7 k ohm
R672	5181518000	33 k ohm
R673	5181486000	1.5 k ohm
R674	5181476000	560 ohm
R675	5181492000	2.7 k ohm
R676	5181502000	6.8 k ohm
R677	5181470000	330 ohm
R678	5181492000	2.7 k ohm
R679	5181476000	560 ohm
R680	5181492000	2.7 k ohm
R681	5181488000	1.8 k ohm
R682	5181470000	330 ohm
R683, R684	5181492000	2.7 k ohm
R685	5181476000	560 ohm
R686	5181492000	2.7 k ohm
R687	5181488000	1.8 k ohm
R688	5181470000	1.8 k ohm
R689, R690	5181492000	2.7 k ohm
R691	5181476000	560 ohm

REF. NO.	PARTS NO.	DESCRIPTION
R692	5181492000	2.7 k ohm
R693	5181502000	6.8 k ohm
R694	5181518000	33 k ohm
R695	5181462000	150 ohm
R696	5181514000	22 k ohm
R697	5181488000	1.8 k ohm
R698	5181518000	33 k ohm
R699	5181502000	6.8 k ohm
R700	5181494000	3.3 k ohm
R701	5181484000	1.2 k ohm
R702	5181502000	6.8 k ohm
R703	5181470000	330 ohm
R704	5181502000	6.8 k ohm
R705, R706	5181498000	4.7 k ohm
R707	5181514000	22 k ohm
R708	5181520000	39 k ohm
R709	5181486000	1.5 k ohm
R710	5181476000	560 ohm
R711	5181494000	3.3 k ohm
R712	5181496000	3.9 k ohm
R713	5181488000	1.8 k ohm
R718	5181514000	22 k ohm
R720	5181510000	15 k ohm
R721	5181462000	150 ohm
R722	5281466000	220 ohm
R723	5281508000	12 k ohm
R724	5181530000	100 k ohm
R725	5181522000	47 k ohm
R726	5181498000	4.7 k ohm
R727	5181514000	22 k ohm
R728	5181498000	4.7 k ohm
R729	5181514000	22 k ohm
R730	5181498000	4.7 k ohm
R731	5181514000	22 k ohm
R732~R734	5181462000	150 ohm
R740	5181462000	150 ohm

CAPACITORS

CAPACITOR NO.	PARTS NO.	DESCRIPTION
C601	5171314800	Elec. 10 mfd 16V
C602~C606	5171290800	Elec. 2.2 mfd 50V
C607	5171314800	Elec. 10 mfd 16V
C608, C609	5171290800	Elec. 2.2 mfd 50V
C610	5171573000	Elec. 47 mfd 10V
C611	5171568000	Elec. 22 mfd 16V
C612	5171582000	Elec. 0.33 mfd 50V
C613	5171560000	Elec. 2.2 mfd 50V
C614	5181569000	Elec. 22 mfd 25V
C616	5171569000	Elec. 22 mfd 25V
C617	5171306800	Elec. 4.7 mfd 35V
C618	5171298800	Elec. 3.3 mfd 50V
C619	5171567000	Elec. 10 mfd 50V
C620	5171569000	Elec. 22 mfd 25V
C621, C622	5171318800	Elec. 10 mfd 35V
C623	5171280800	Elec. 0.47 mfd 50V
C624	5171290800	Elec. 2.2 mfd 50V
C627	5171356800	Elec. 100 mfd 10V
C628	5171338800	Elec. 33 mfd 16V
C629	5171356800	Elec. 100 mfd 10V
C630	5171330800	Elec. 22 mfd 35V

POWER SUPPLY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158099000	PCB Assy
	5157099000	PCB
TRANSISTORS		
Q801	5145087000	2SD313(E)
Q802, Q803	5145092000	2SC1740LN(S)
Q804	5145087000	2SD313(E)
Q805	5145092000	2SC1740LN(S)
Q806	5145135000	2SD400MP(E)
Q807	5145095000	2SA826LN(S)
Q808	5145087000	2SD313(E)
Q809, Q810	5145092000	2SC1740LN(S)
Q811	5145129000	2SB507(E)
Q812	5145095000	2SA826LN(S)
Q813	5145092000	2SC1740LN(S)
Q814	5145095000	2SA826LN(S)
Q815	5145092000	2SC1740LN(S)
DIODES		
D801~D808	5143113000	1SR34-200HM
D809	5143108000	Zener, RD-13EB
D811	5042554000	Zener, RD-6.2EB
D812	5143113000	1SR34-200HM
D813	5143129000	Zener, RD-5.6EB
D816~D819	5143113000	1SR34-200HM
D820, D821	5143118000	1S2473HJ
D822	5042554000	Zener, RD-6.2EB
D823~D826	5143118000	1S2473HJ
D827	5042551000	Zener, XZ-190
D828	5143118000	1S2473HJ
D829	5143116000	1SR34-200VL
RESISTORS		
All resistors are rated $\pm 5\%$ tolerance, $\frac{1}{4}$ watt carbon type unless otherwise noted.		
R801~R803	5181506000	10 k ohm
R804	5181490000	2.2 k ohm
R805	5181498000	4.7 k ohm
R806	5181490000	2.2 k ohm
R807	5181498000	4.7 k ohm
R808	5181502000	6.8 k ohm
R809	5181490000	2.2 k ohm
R811	5181484000	1.2 k ohm
R812, R813	5181502000	6.8 k ohm
R814	5181482000	1 k ohm
R815	5181510000	15 k ohm
R816	5181464000	180 ohm
R820	△ 5184724000	10 ohm 2W Metal film
R821	5180094000	3.3 k ohm $\frac{1}{2}$ W Fusible
R822	5181506000	10 k ohm
R823	5181458000	100 ohm
R824	5181474000	470 ohm
R825, R826	5181506000	10 k ohm
R827	5181502000	6.8 k ohm
R828	5184956000	10 k ohm 2%
R829	△ 5184724000	10 ohm 2W Metal Film
R830	5181506000	10 k ohm
R831	5181458000	100 ohm

REF. NO.	PARTS NO.	DESCRIPTION
R832	5181474000	470 ohm
R833	5181536000	180 k ohm
R834	5184956000	10 k ohm 2%
R835	5181494000	3.3 k ohm
R836	5181490000	2.2 k ohm
R837	5181446000	33 ohm
R838	5181524000	56 k ohm
R839	5181482000	1 k ohm
R840	5181484000	1.2 k ohm
R841	5181462000	150 ohm
R842, R843	5181510000	15 k ohm
CAPACITORS		
C801	5173084800	Elec. 1000 mfd 50V (USM)
C802	5173094800	Elec. 3300 mfd 25V (USM)
C803, C804	5173084800	Elec. 1000 mfd 50V (USM)
C805	5173048800	Elec. 100 mfd 50V (USM)
C806	5172992800	Elec. 1 mfd 50V (USM)
C807	5173083800	Elec. 1000 mfd 35V (USM)
C809	5173082800	Elec. 1000 mfd 25V (USM)
C810	5173072800	Elec. 470 mfd 16V (USM)
C811	5173080800	Elec. 1000 mfd 10V (USM)
C812	5173044800	Elec. 100 mfd 10V (USM)
C813	5173070800	Elec. 470 mfd 6.3V (USM)
C817, C818	5173065800	Elec. 330 mfd 35V (USM)
C819	5173935800	Elec. 47 mfd 10V (USM)
C820	5173005800	Elec. 4.7 mfd 35V (USM)
C821	5173010800	Elec. 10 mfd 16V (USM)
C822	5173011800	Elec. 10 mfd 25V (USM)
C823, C824	5173065800	Elec. 330 mfd 35V (USM)
C825	5173035800	Elec. 47 mfd 10V (USM)
C826	5173005800	Elec. 4.7 mfd 35V (USM)
C827	5170401800	Mylar 0.001 mfd 100V
C828	5173010800	Elec. 10 mfd 16V (USM)
C829	5173011800	Elec. 10 mfd 25V (USM)
C830	5173064800	Elec. 330 mfd 25V (USM)
C831	5173019800	Elec. 22 mfd 25V (USM)
C832	5172992800	Elec. 1 mfd 50V (USM)
C833	5173005800	Elec. 4.7 mfd 35V (USM)

VARIABLE RESISTORS

R844	5053446000	Semi-fixed, 1 k ohm - B
R845	5150097000	Semi-fixed, 5 k ohm - B

MISCELLANEOUS

5023487000	Heat sink
5033295000	Tube, Insulating
5033291000	Plate, Insulating

JOINT PCB ASSY

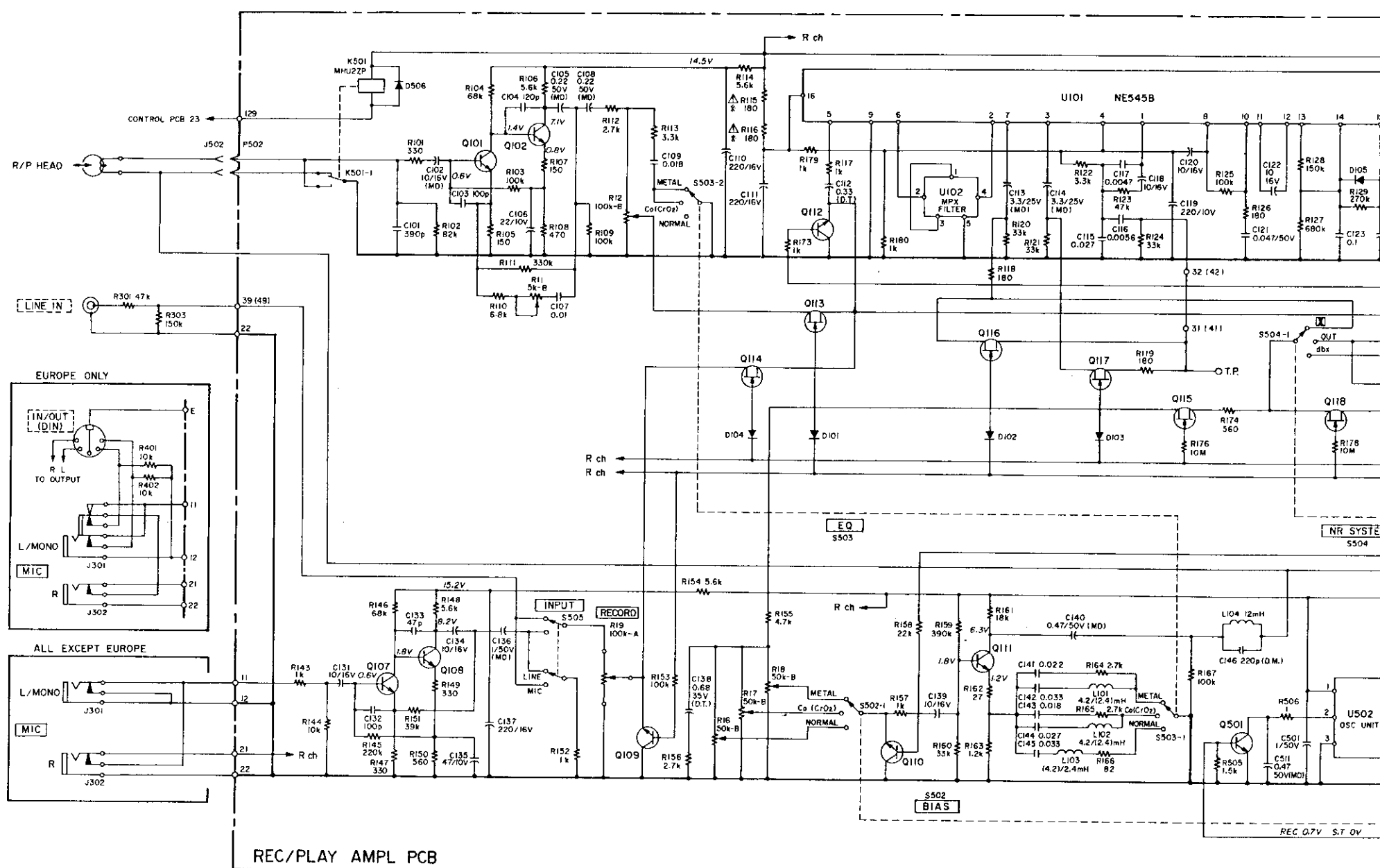
REF. NO.	PARTS NO.	DESCRIPTION
	5168802100	PCB Assy
	5167802100	PCB
D817	5143114000	Diode, 1SR34-400HM
D818	5143114000	Diode, 1SR34-400HM
D819	5143114000	Diode, 1SR34-400HM

REF. NO.	PARTS NO.	DESCRIPTION
D820	5143114000	Diode, 1SR34-400HM
R954	△5181828000	Resistor 15 ohm 1/4W 5% Non Flammable
R955	5180066000	Carbon Res., 220 ohm 1/4W
C951	5055946000	Elec. 10 mfd 50V B.P.
P801	5122136000	Connector, Plug; 12P
P802	5122129000	Connector, Plug; 5P

(Continued from page 23)

Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 36	*5158163000	PCB Assy, TIMER	Part of 4 - 36 Part of 4 - 36
	*5210000100	PCB, TIMER	
	*5133019000	Switch, Rotary; DP3T	
4 - 37	*5534422100	Rod, Power Switch	JAPAN, GENERAL EXPORT, AUSTRALIA EUROPE, U.K. U.S.A. CANADA JAPAN U.S.A. CANADA EUROPE, U.K. GENERAL EXPORT, AUSTRALIA
4 - 38	*5534431000	Button, B	
4 - 39	△*5134036000	Switch, Power	
	△*5134011000	Switch, Power	
	△*5134037000	Switch, Power	
	△*5134018000	Switch, Power	
4 - 40	△*5052905000	Spark Killer, 0.1 mfd +120 ohm 400 V AC	
	△*5052906000	Spark Killer, 0.033 mfd +120 ohm 125 V AC	
	△*5052911000	Spark Killer, 0.033 mfd +120 ohm 250 V AC	
	△*5052908000	Spark Killer, 4700 pfd 250 V AC	
	△*5052907000	Spark Killer, 0.01 mfd +300 ohm 400 V AC	
4 - 41	*5555561000	Bracket, Power Switch	JAPAN U.S.A., CANADA EUROPE, U.K., AUSTRALIA GENERAL EXPORT
4 - 42	*5551031200	Chassis, Amplifier	
4 - 43	*5534473000	Rivet, T-type	
4 - 44	*5158098000	PCB Assy, CONTROL	
4 - 45	*5553353100	Bracket, Transformer	
4 - 46	△*5152235000	Transformer, Power	
	△*5152236000	Transformer, Power	
	△*5152237000	Transformer, Power	
	△*5152238000	Transformer, Power	
4 - 47	*5555626000	Washer, Transformer	
4 - 48	*5555060000	Bracket, B	Part of 4 - 51 EUROPE, U.K., AUSTRALIA EUROPE, U.K., AUSTRALIA EUROPE, U.K., AUSTRALIA EUROPE, U.K., AUSTRALIA
4 - 49	△*5167548100	PCB, Voltage Selector	
4 - 50	△*5555062000	Bar, Shorting; A	
4 - 51	*5157100000	PCB Assy, FUSE	
	*5142087000	Holder, Fuse	
4 - 52	△*5142186000	Fuse, 800 mA 250V	
4 - 53	△*5142088000	Fuse, 250 mA 250V	
4 - 54	△*5041140000	Fuse, 1 AT 250V	
4 - 55	△*5142179000	Fuse, 100 mA 250V	
4 - 56	*5553354000	Bracket, PCB; A	
4 - 57	*5158099000	PCB Assy, POWER SUPPLY	
4 - 58	*5023487000	Heat Sink	
4 - 59	*5033291000	Plate, Insulating	
4 - 60	*5145129000	Transistor, 2SB507 (B)	
4 - 61	*5145087000	Transistor, 2SD313 (E)	
4 - 62	*5033295000	Tube, Insulating	
4 - 63	*5555564100	Heat Sink	
4 - 64	*5145087000	Transistor, 2SD313 (E)	
4 - 65	*5555884000	Washer, $\phi 7 \times \phi 12 \times t1.6$	
4 - 66	*5555563000	Paper, Shield	

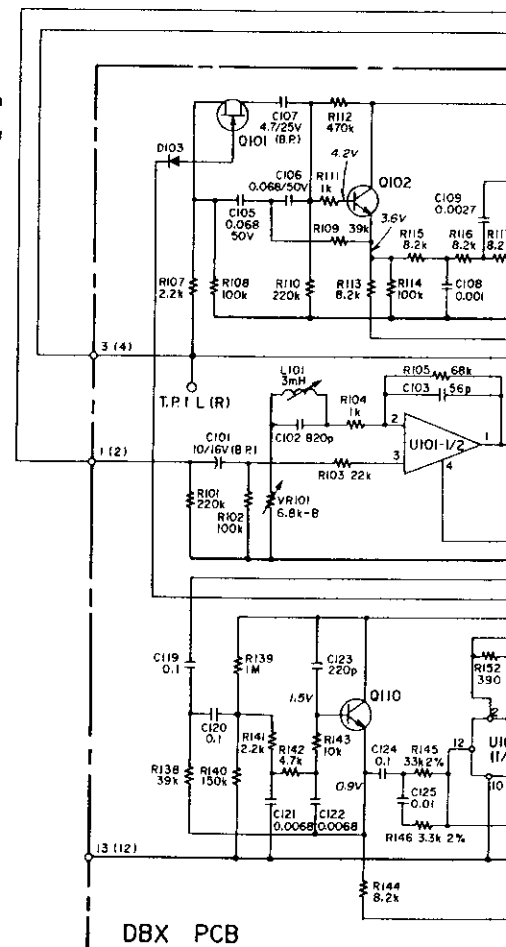


REC/PLAY AMPL PCB

U101	NE 545B	Q108	2SC2021LNF(S)	Q208	2SC2021LNF(S)	D101 ~ D104	1S2473HJ	D501	1N60
U501	LA4170	Q109, Q110	2SC1636-2	Q209, Q210	2SC1636-2	D105	1N60	D502, D503	1S2473HJ
U502	OSC UNIT	Q111	2SC900U(A)	Q211	2SC900U(A)	D106	1S2473HJ	D504	1SR34-200HM
Q101, Q102	2SC900U(A)	Q112	2SC1636-2	Q212	2SC1636-2	D201 ~ D204	1S2473HJ	D505	1N60
Q103	2SC1636-2	Q113 ~ Q119	2SK68A(L)	Q213 ~ Q219	2SK68A(L)	D205	1N60	D506	1SR34-200HM
Q104	2SC2021LNF(S)	Q201, Q202	2SC900U(A)	Q501	2SC1741Q	D206	1S2473HJ	D507	EOA01-06R
Q105, Q106	2SC1636-2	Q203	2SC1636-2	Q502	2SC2021LNF(S)				
Q107	2SC900U(A)	Q204	2SC2021LNF(S)	Q503	2SA786LNF(R)				
		Q205, Q206	2SC1636-2	Q504	2SC2021LNF(S)				
		Q207	2SC900U(A)	Q505, Q506	2SA786LNF(R)				

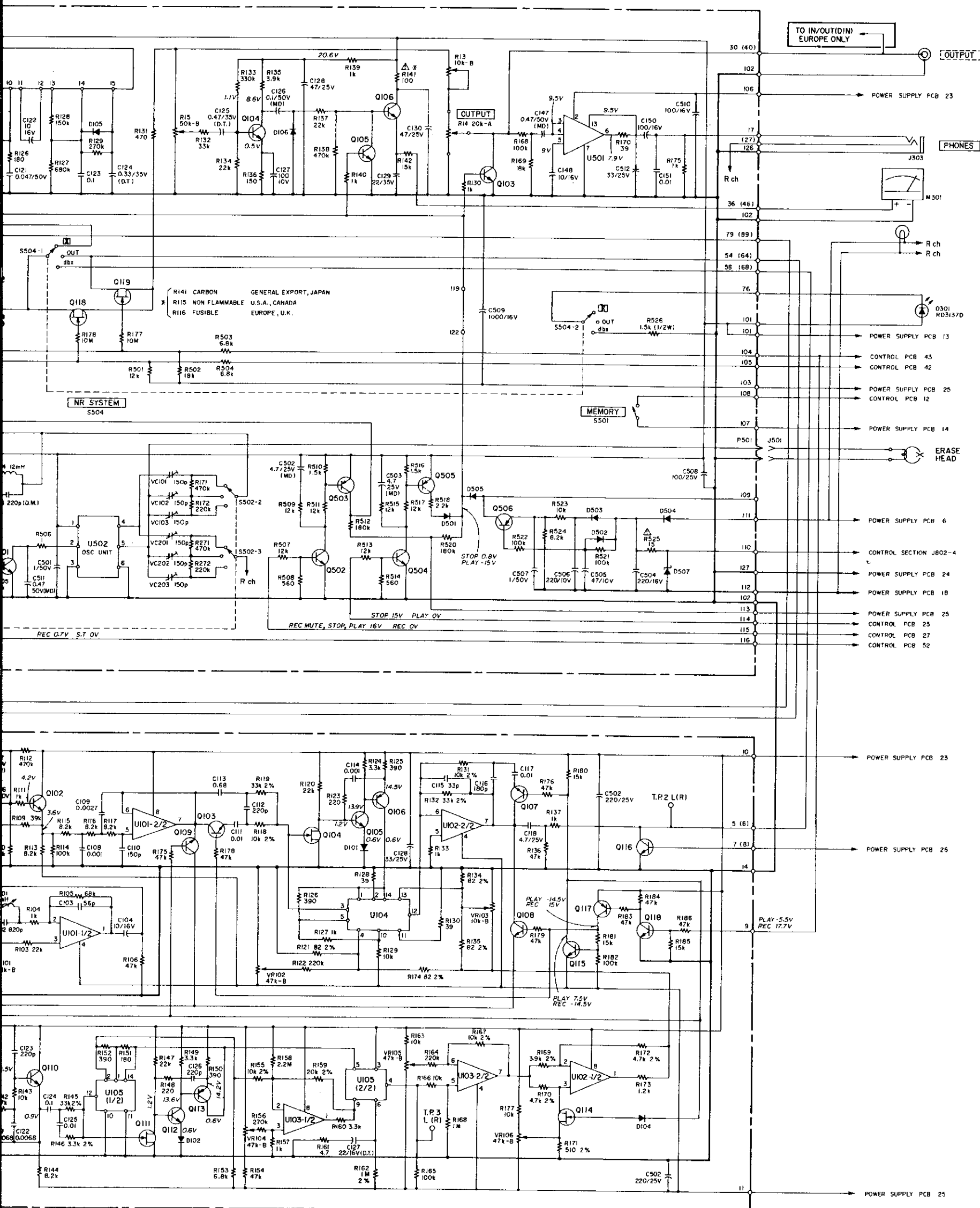
DBX PCB

U101 ~ U103	4558DF	Q107 ~ Q109	2SC1636-2	D101 ~ D104	1S2473HJ
U104	BA651	Q110	2SC1222E		
U105	BA652	Q111	2SK30A(I)		
Q101	2SK68AM	Q112	2SC1222E		
Q102	2SC1222E	Q113	2SA750E		
Q103	2SC1636-2	Q114	2SK68AM		
Q104	2SK30A(I)	Q115	2SC1740LNF(S)		
Q105	2SC1222E	Q116	2SC1636-2		
Q106	2SA750E	Q117	2SA750E		
		Q118	2SC1740LNF(S)		



NOTES

- ALL RESISTORS ARE 1/4 WATT, 5%, UNLESS OTHERWISE NOTED.
- RESISTOR VALUES ARE IN OHMS (K = 1,000, M = 1,000,000).
- ALL CAPACITOR VALUES ARE IN MICROFARADS (P = PICO, N = NANO, M = MICRO).
- SOME OF THE COMPONENTS.
- DC VOLTAGES WERE MEASURED DURING REPAIRS UNLESS OTHERWISE NOTED.
- APARTS MARKED WITH THIS SIGN ARE SAFETY CRITICAL. THEY MUST ALWAYS BE REPLACED WITH EXACT REPLACEMENT.



ATT, 5%, UNLESS MARKED OTHERWISE.
 N OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
 ARE IN MICROFARADS (p = PICO FARADS).
 DOWN FOR LEFT CHANNEL EXCEPT FOR
 TS.
 SURED DURING RECORD PAUSE MODE
 D.
 IS SIGN ARE SAFETY CRITICAL COM-
 WAYS BE REPLACED WITH IDENTICAL
 THE TEAC PARTS LIST AND ENSURE

A-550RX

Stereo Cassette Deck

1

2

3

4

5

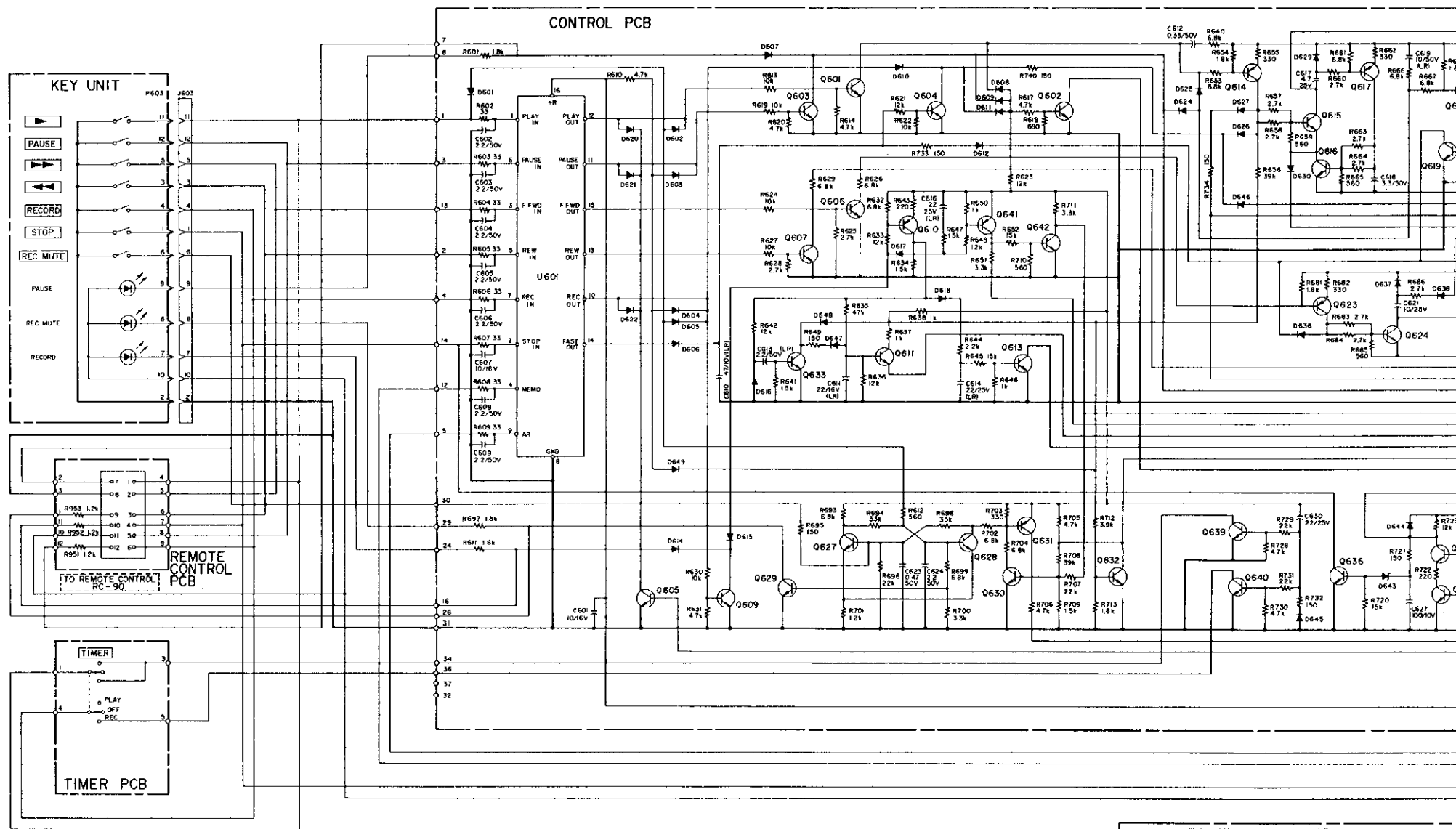
6

A

B

C

D

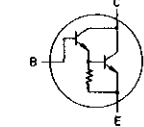


CONTROL PCB

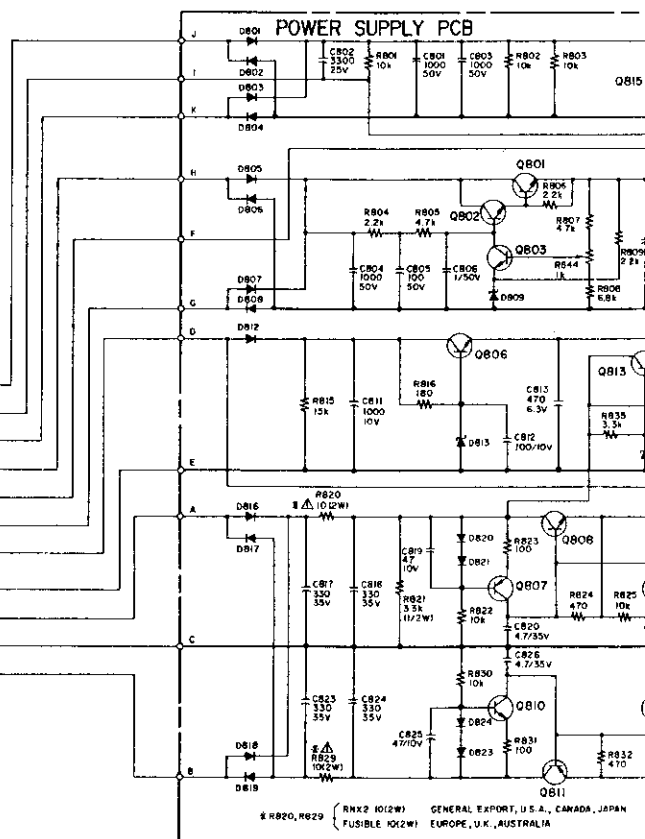
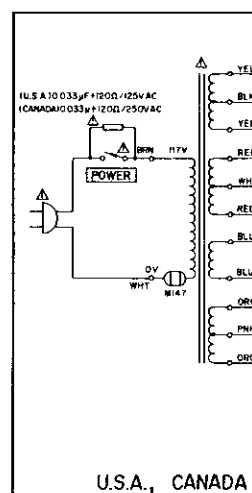
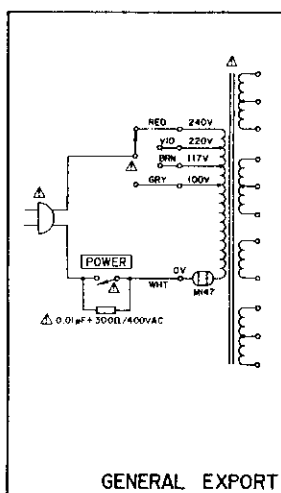
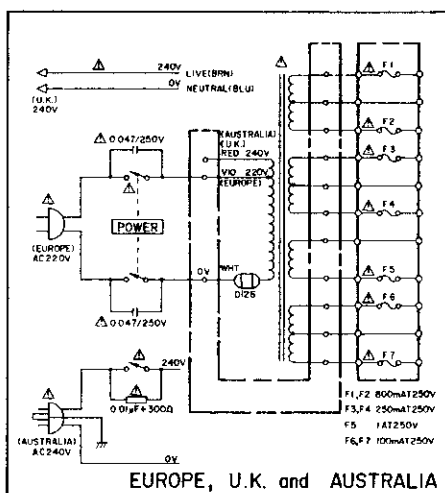
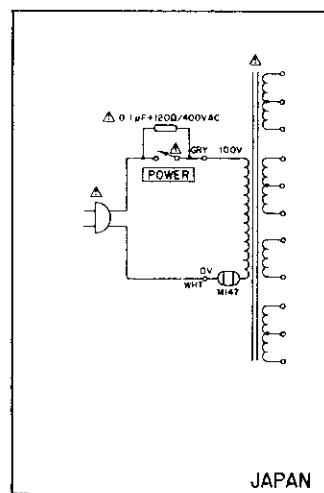
U601	M54410P	Q619	2SC1740LN (S)	D601 ~ D629	1S2473HJ
Q601 ~ Q603	2SC1740LN (S)	Q620, Q621	2SD313E	D630, D631	1SR34 200HM
Q604 (Darlington pair)	2SC1645 (S)	Q622, Q623	2SA833LN (R)	D632 ~ D634	1S2473HJ
Q605	2SC1635 (S)	Q624	2SD313E	D635	1SR34 200HM
Q606, Q607	2SC1740LN (S)	Q625	2SA833LN (R)	D636 ~ D642	1S2473HJ
Q609	2SC1740LN (S)	Q626	2SD313E	D643	RD 5.0E8
Q610	2SA833LN (R)	Q627 ~ Q630	2SC1740LN (S)	D644 ~ D649	1S2473HJ
Q611	2SC1740LN (S)	Q631	2SA833LN (R)		
Q613	2SC1741C	Q632, Q633	2SC1740LN (S)		
Q614	2SA833LN (R)	Q634 ~ Q640	2SC1740LN (S)		
Q615, Q616	2SD313 F	Q641	2SA833LN (R)		
Q617, Q618	2SA833LN (R)	Q642	2SC1740LN (S)		

POWER SUPPLY PCB

Q801	2SD313 (E)	D801 ~ D808	1SR34 200HM
Q802, Q803	2SC1740LN (S)	D809	RD 13E8
Q804	2SD313 (E)	D810	RD 6.2E8
Q805	2SC1740LN (S)	D811	1SR34 200HM
Q806	2SD400AMP (F)	D812	RD 5.0E8
Q807	2SA828LN (S)	D813	1SR34 200HM
Q808	2SD313 (E)	D816 ~ D819	1S2473HJ
Q809, D810	2SC1740LN (S)	D820, D821	1S2473HJ
Q811	2SD313 (E)	D822	RD 6.2E8
Q812	2SA828LN (S)	D823 ~ D826	1S2473HJ
Q813	2SC1740LN (S)	D827	XZ 100
Q814	2SA828LN (S)	D828	1S2473HJ
Q815	2SC1740LN (S)	D829	1SR34 200VL

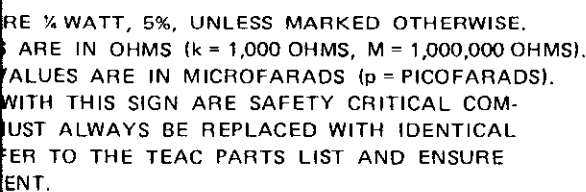


Connecting diagram of Q604



NOTES

- ALL RESISTORS ARE 1/4 WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
- ALL CAPACITOR VALUES ARE IN MICROFARADS (p = 1,000 pF).
- Δ PARTS MARKED WITH THIS SIGN ARE SAFETY CRITICAL COMPONENTS. THEY MUST ALWAYS BE REPLACED WITH IDENTICAL COMPONENTS - REFER TO THE TEAC PARTS LIST AND EXACT REPLACEMENT.



A-550RX

Stereo Cassette Deck

ASSEMBLING HARDWARE CODING LIST

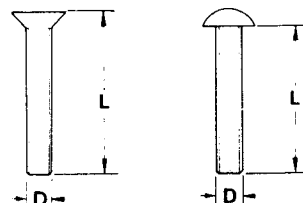
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted. ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

----- Length in mm (L)
 ----- Diameter in mm (D) *
 ----- Metric System
 ----- Nomenclature



* Inner dia. for washers and nuts

	Code	Name	Type		Code	Name	Type
MACHINE SCREW	R	Round Head Screw		TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	P	Pan Head Screw			BTB	Binding Head Tapping Screw(B Type)	
	T	Stove Head Screw (Truss)			RTA	Round Head Tapping Screw(A Type)	
	B	Binding Head Screw			RTB	Round Head Tapping Screw(B Type)	
	F	Flat Countersunk Head Screw		SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	O	Oval Countersunk Head Screw			SC	Hex Socket Setscrew(Cup Point)	
WOOD SCREW	RW	Round Head Wood Screw			SS	Slotted Socket Setscrew(Flat Point)	
TAPTITE SCREW	PTT	Pan Head Taptite Screw		WASHER	E	E-Ring (Retaining Washer)	
	WTT	Washer Head Taptite Screw			W	Flat Washer(Plain)	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)			SW	Lock Washer (Spring)	
	BSB	Binding Head SEMS Screw(B Type)			LWI	Lock Washer (Internal Teeth)	
	BSF	Binding Head SEMS Screw(F Type)			LWE	Lock Washer (External Teeth)	
	PSA	Pan Head SEMS Screw(A Type)			TW	Trim Washer (Countersunk)	
	PSB	Pan Head SEMS Screw(B Type)					
				NUT	N	Hex Nut	

A-550RX

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