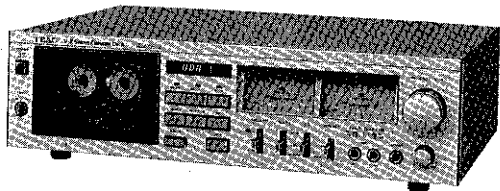


TEAC[®]



SERVICE MANUAL

V-7

Stereo Cassette Deck

1 SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo

3 Heads Erase, record and playback

Type of Tape Cassette tape, C-60 and C-90 (Phillips 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*: Min. input level: -45 dB (4.36 mV)
*Pursuant to DIN standards (Europe model only)

Output (level and load impedance)

OUTPUT: Spec. output level: -5 dB (436 mV)/50 kohms
Max. output level: -3.5 dB (518 mV)

PHONES: Spec. output level: -16 dB (123 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 head and playback head in a single housing

Motor 1 DC servo motor (for capstan drive)

1 DC motor (for reel drive)

Bias Frequency 100 kHz $\pm$ 5 kHz

Operation Position Horizontal

Power Requirements

100/117/220/240V AC, 50/60 Hz, 21W (General Export Model)

117V AC, 60 Hz, 21W (U.S.A./Canada Model)

220V AC, 50 Hz, 21W (Europe Model)

240V AC, 50 Hz, 21W (U.K./Australia Model)

Weight 7.0 kg (15-7/16 lbs.) net

Dimensions See Fig. 1-3

SERVICE DATA

MECHANICAL

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

Tape Speed Drift 45 Hz

Wow and Flutter

Playback: 0.07% (WRMS)

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 65 g-cm (0.56 to 0.90 oz-inch)

Supply: 2 to 6 g-cm (0.028 to 0.083 oz-inch)

F.F.: 120 to 170 g-cm (1.7 to 2.4 oz-inch)

REW: 120 to 170 g-cm (1.7 to 2.4 oz-inch)

Fast Wind Time

95 sec. or less for MTT-501 (C-60)

Auto End-stop Time 2 sec. or less

TIMER activate Time 2.3 sec. $\pm$ 1 sec.

ELECTRICAL

Frequency Response

Playback — Co (CrO₂), METAL

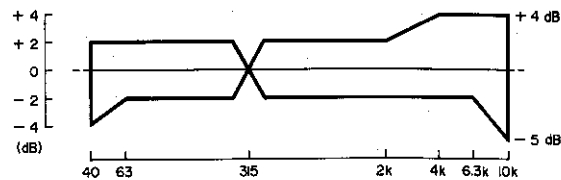


Fig. 1-1

Overall

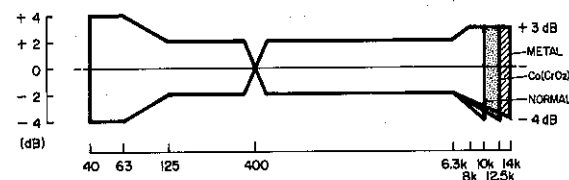


Fig. 1-2

Signal-to-noise Ratio

Playback NORMAL: 46 dB min.

Record/Playback

METAL, Co (CrO₂): 45 dB min.

NORMAL: 43 dB min.

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

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

Channel Separation 20 dB min. at 1 kHz

Adjacent Track Crosstalk 40 dB min. at 125 Hz

Total Harmonic Distortion 2.2% or less with METAL/Co (CrO₂)
2.5% or less with NORMAL

NOTES:

- 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.

** Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

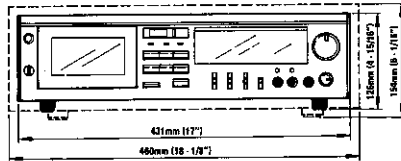
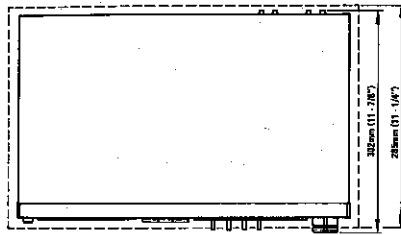
'Dolby' and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

CAUTION

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

2 REMOVAL OF EXTERNAL COMPONENTS

Disassemble in number-order



Broken line indicates some General Export models.

Fig. 1-3 Dimensions

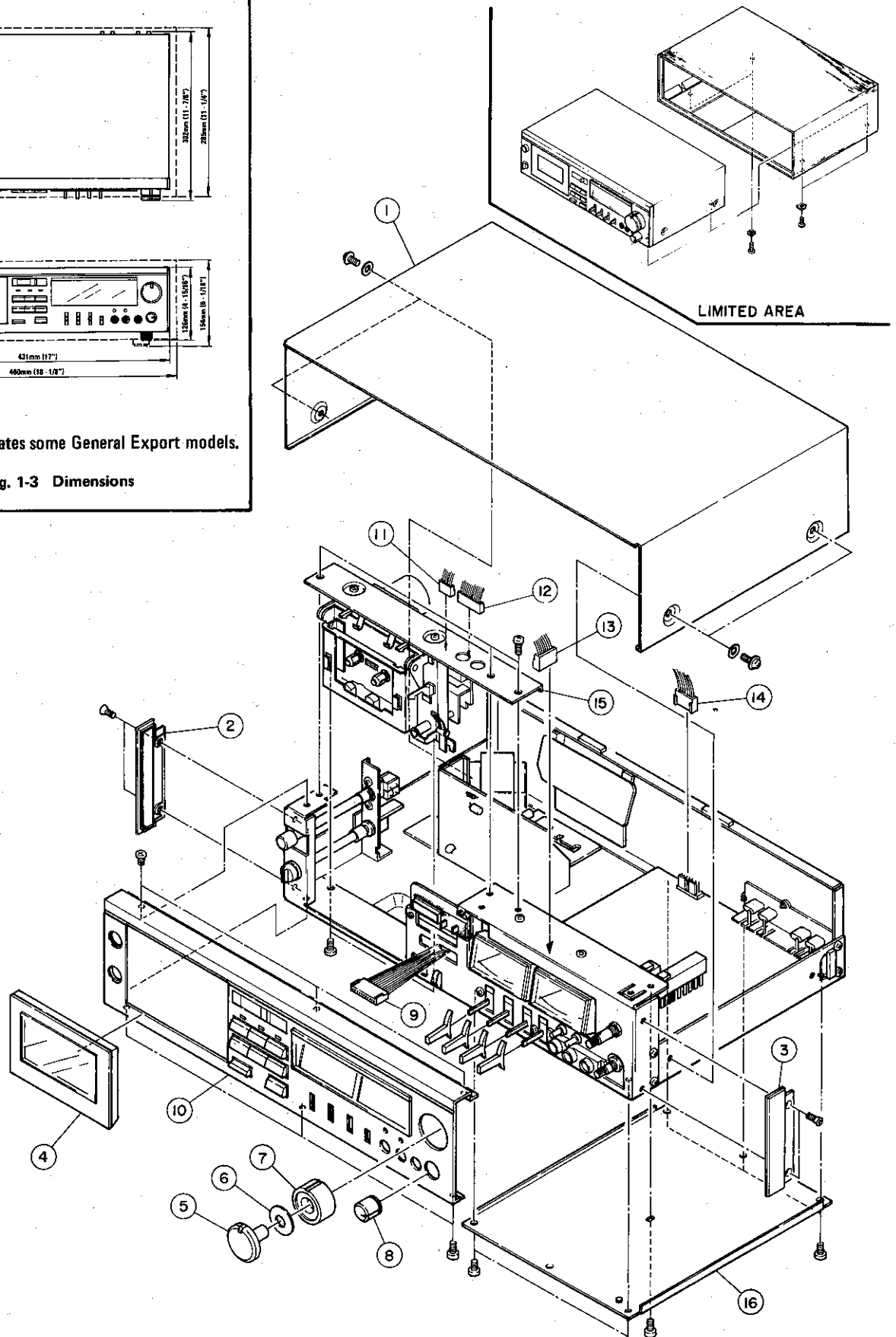


Fig. 2-1

3 PARTS LOCATION

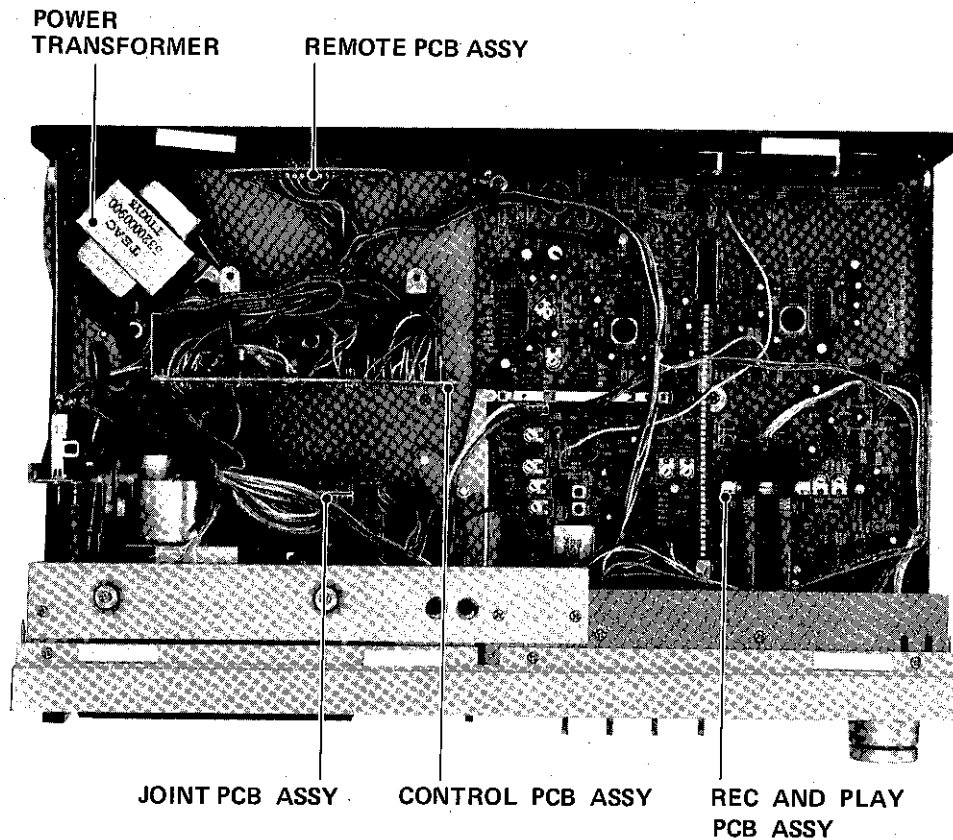


Fig. 3-1

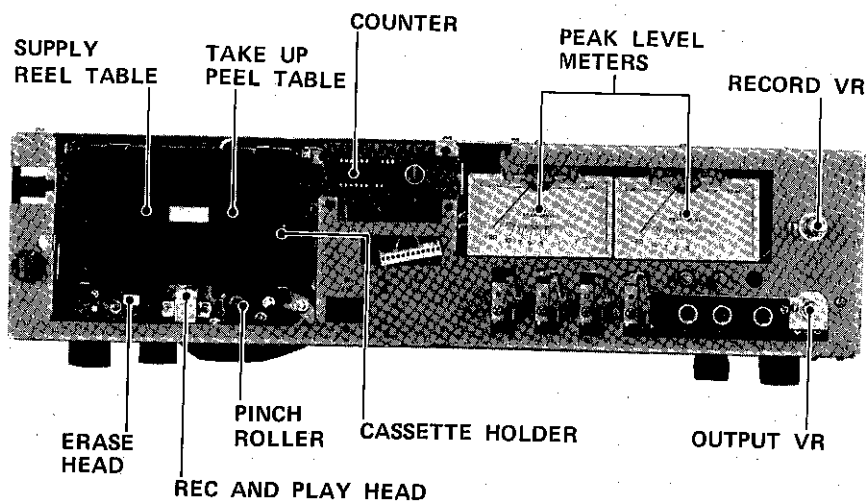


Fig. 3-2

4 MECHANICAL ADJUSTMENTS AND CHECKS

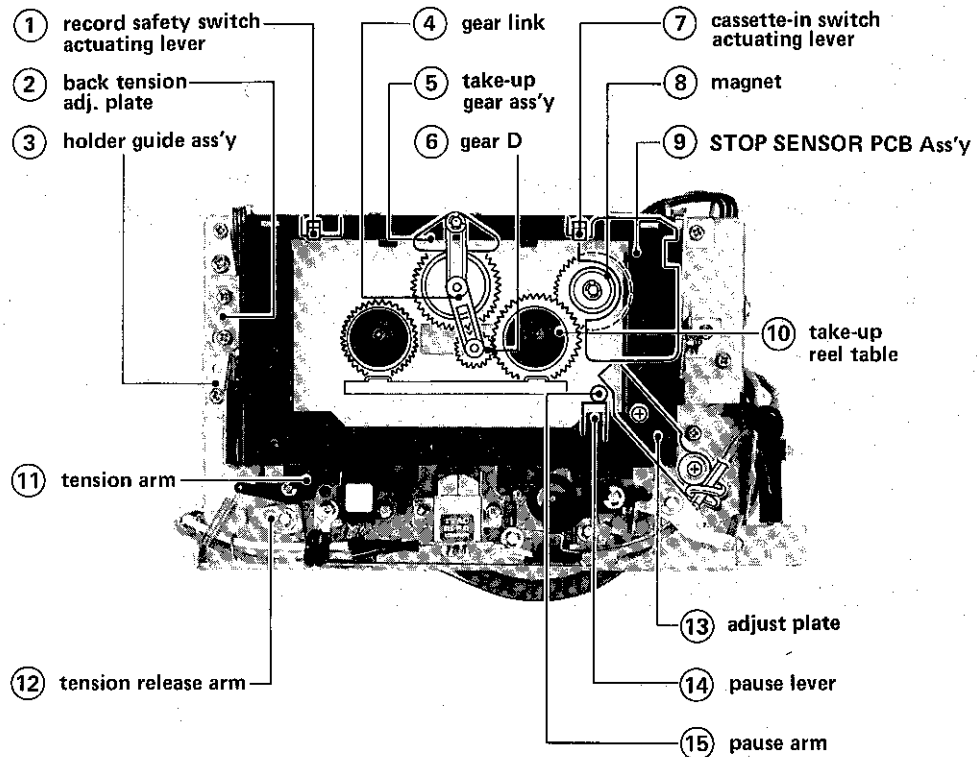


Fig. 4-1

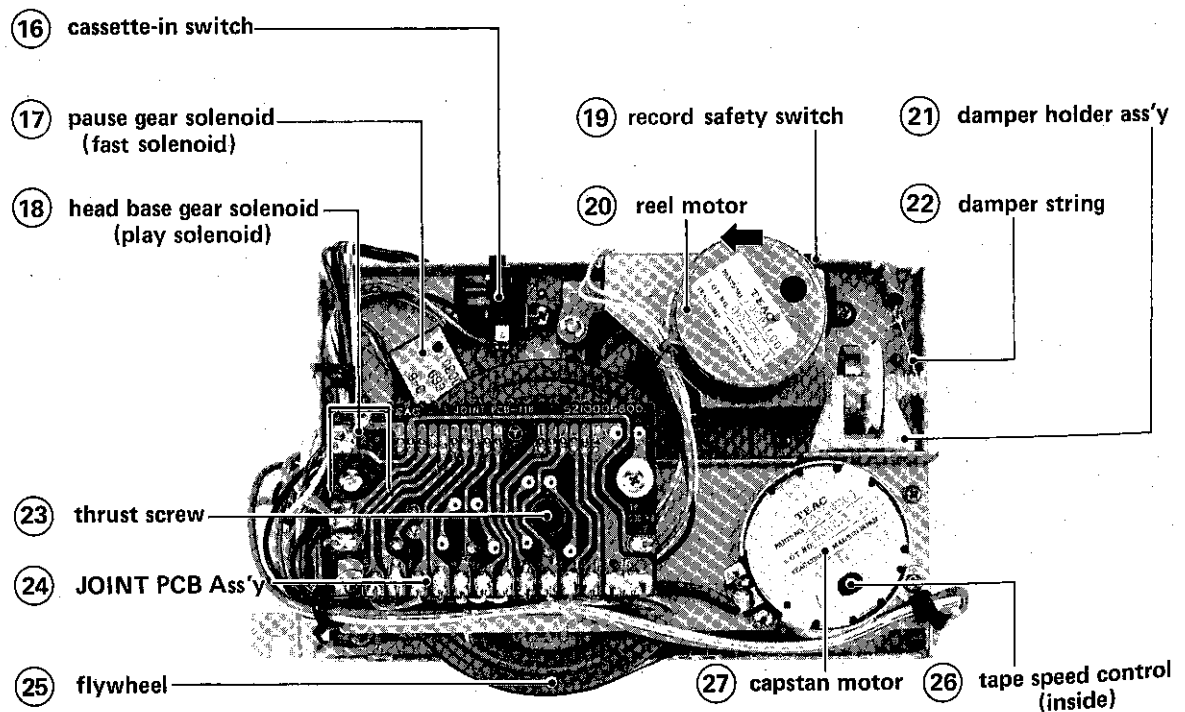


Fig. 4-2

Note: Numbers in brackets are references to corresponding items in Figs. 4-1 and 4-2.

4-1 CAPSTAN ASSEMBLY THRUST

Capstan shaft thrust value: 0.1 mm to 0.2 mm

1. Adjustment can be made by the thrust screw (23).
2. Secure the screw with locking paint.

4-2 PINCH ROLLER PRESSURE

1. With the cassette holder closed and no tape loaded, and while pushing the cassette-in switch's actuating lever (7) upwards, depress the PLAY button.
2. Measure the pinch roller pressure when the pinch roller just begins rotation after it is separated from the capstan shaft in a downward direction.

Pinch roller pressure: 350 g to 450 g (12.3 oz to 15.9 oz)

4-3 REEL TORQUE

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

Take-up: 40 to 65 g-cm (0.56 to 0.90 oz-inch)

Supply: 2 to 6 g-cm (0.028 to 0.083 oz-inch)*

F.F. & REW: 120 to 170 g-cm (1.7 to 2.4 oz-inch)

*Values within this range are acceptable; however, an ideal value would be from 3 to 4 g-cm (0.042 to 0.056 oz-inch).

It may be possible to achieve this value by adjusting the screws on the back tension adjusting plate (2).

4-4 TAPE SPEED

1. Load and play a TEAC MTT-111 test tape.
2. Using a common slotted screwdriver with the handle completely insulated from the screwdriver blade, adjust the control (26) on the capstan motor (27) (as far as possible) for a reading of 3,000 Hz (Spec: 3,000 Hz $\pm$ 5 Hz).

Note: This tape speed setting should be made after about 20 seconds of operating time.

3. Check the followings at any portion of the tape run.

Specifications:

Tape speed deviation: 3,000 Hz $\pm$ 45 Hz

Tape speed drift: 45 Hz

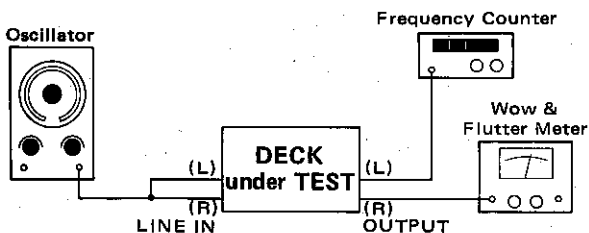


Fig. 4-3

4-5 WOW AND FLUTTER

Note: These measurements should be made at the beginning, middle and the end of the tape.

PLAYBACK METHOD

1. Play a TEAC MTT-111 test tape.
2. Check that the wow and flutter value is within 0.07% WRMS max.

RECORD/PLAYBACK METHOD

Note: Use the maximum wow-and-flutter obtained from repeated measuring, each time stopping then replaying the tape.

3. Load a TEAC MTT-501 test tape (blank).
4. Apply and record a 3,000 Hz signal.
5. Rewind and play this recorded section.
6. Check that the wow and flutter value is within 0.20% RMS max.

4-6 SOLENOIDS

Mount both the pause gear solenoid (17) and head base gear solenoid (18) so that they are positioned as far as possible in the direction of their respective plungers. (For an illustration of the pause gear and the head base gear, see Fig. 4-4).

4-7 TENSION ARM

1. Load a fully erased TEAC MTT-501 test tape fully wound onto the left (or right) reel.
2. Press the PROGRAM count button so that counter indicates any number between 2 to 19.
3. Press the F. FORWARD (▶▶) [or REWIND (◀◀)] button to engage the CPS search operation.
4. The clearance between the tension arm (11) and the moving tape should be 0 to 1 mm.
5. If not, adjust by bending the bent-tip portion of the tension release arm (12) to meet the required clearance value.

4-8 FLYWHEEL, HEAD BASE AND PAUSE GEARS

Position the capstan metal housing so that the flywheel gear (attached to the flywheel shaft) is positioned as far as possible towards the head base gear as shown in Fig. 4-4.

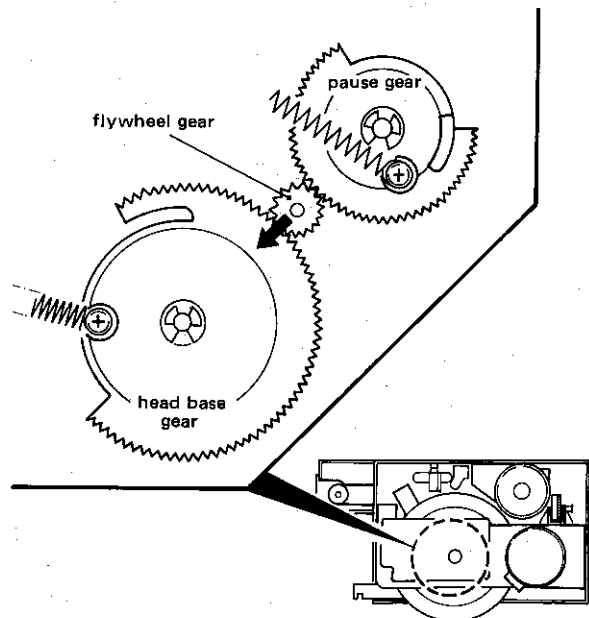


Fig. 4-4

4-9 PINCH ROLLER POSITION

1. By bending the pause lever's bent-tip portion, adjust the pinch roller position to meet the following conditions:
 - a. In the pause mode, the pinch roller/capstan clearance should be about 0.5 mm to 1 mm.
 - b. In play mode, there should be proper clearance between the pinch roller arm pin and the head base's bent-tip portion.

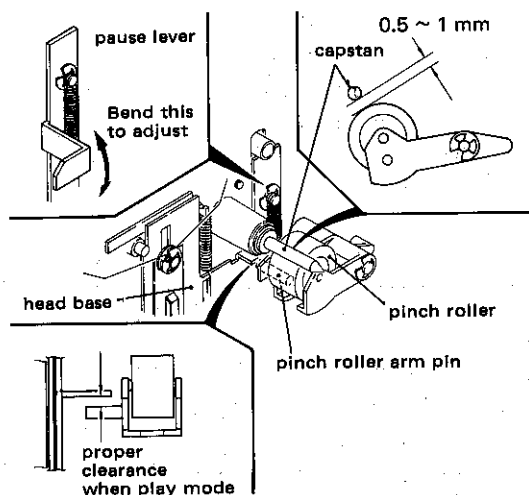


Fig. 4-5

4-10 RECORD SAFETY SWITCH

1. Adjust the record safety switch (19) position to meet the following requirements:
 - a. When any cassette with the corresponding record-protect tab in place is loaded, the deck can go into record mode.
 - b. When any cassette is loaded with the corresponding record-protect tab removed, recording is inhibited.

4-11 CASSETTE-IN SWITCH

1. Adjust the cassette-in switch (16) position to obtain a clearance as illustrated in Fig. 4-6 so that when a cassette is loaded, the transport mechanism is able to go into any tape motion mode.

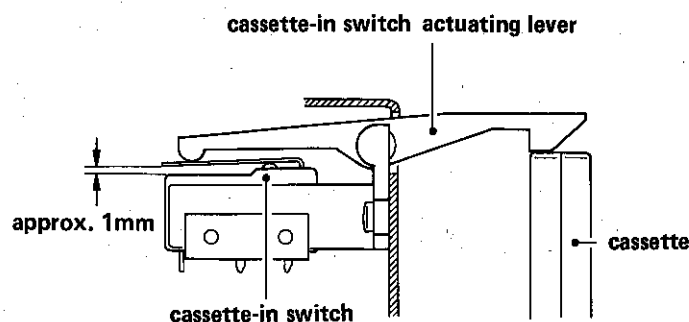


Fig. 4-6

4-12 TAKE-UP GEAR ASSEMBLY

Note: When the pause gear (refer to Fig. 4-4), pause arm (15), adjust plate (13), reel motor (20) and/or take-up gear assembly (5) are reinstalled or replaced, this adjustment must be made.

1. Position the reel motor as far as possible in the direction shown by the arrow in Fig. 4-2.
2. Set the deck to play mode.
3. Check that when pushing the gear link (4) towards the take-up reel table (10), gear D (6) moves 0.1 mm to 0.2 mm towards the reel table.
4. If not, adjust by positioning the adjust plate (13).
5. Check that when securing the take-up reel table, gear D does not disengage from the take-up reel table gear.

4-13 CASSETTE HOLDER

1. Adjust the holder guide assembly position so that when the cassette holder is closed, its back plate is parallel with the tape transport chassis.

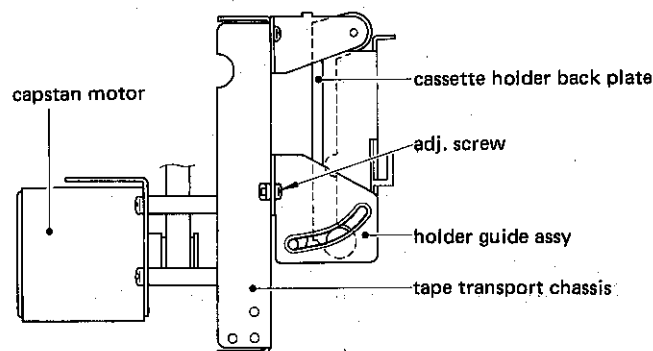


Fig. 4-7

4-14 STOP SENSOR ASS'Y (HALL IC) POSITION

1. Adjust by moving the STOP SENSOR PCB ass'y (9) so that the clearance shown in Fig. 4-8 is approximately 1 mm.
2. Be careful not to change only the position of the HALL IC when making this adjustment.

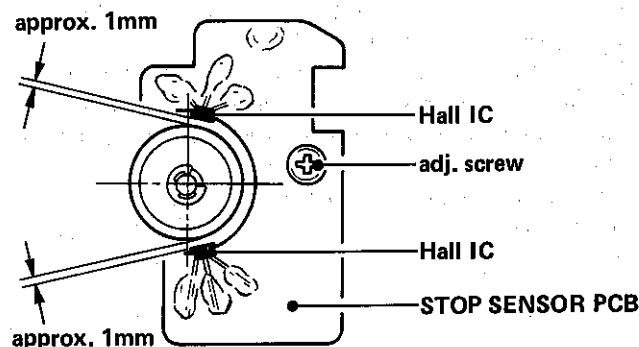


Fig. 4-8

4-15 DAMPER STRING

1. Always wrap the damper string (22) around the drum of the damper holder assembly (21) without twisting it.

4-16 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.

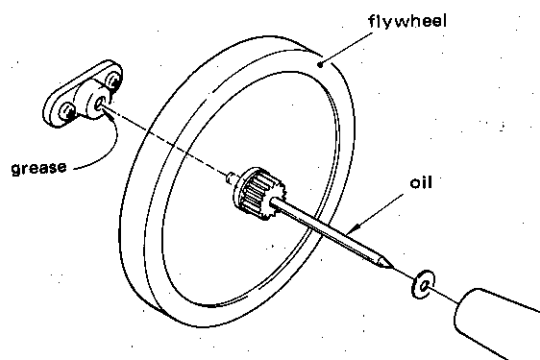


Fig. 4-9

4-17 VOLTAGE CONVERSION (FOR GENERAL EXPORT MODELS)

1. Always disconnect the power line cord before making this adjustment.
2. Remove the cover* of the deck by removing the screws from the sides.
3. Locate the voltage selector (See PARTS LOCATION).
4. Loosen the two screws in the jumper bar and move the bar so that it jumps the two terminals marked with the required voltage (100, 117, 220 or 240).
5. Retighten the screws and replace the cover*.

* Decks sold in certain areas have a wooden case which must be removed by removing the screws (not the feet) on the bottom of deck before adjusting the voltage.

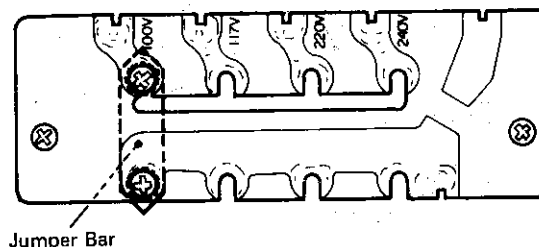


Fig. 4-10

5 ELECTRICAL ADJUSTMENTS AND CHECKS

PRECAUTIONS

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 made in the order of L-ch then R-ch, Double REF. NOs. and test point designations indicate L-ch/R-ch. (Example: R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all checks for a specific chart unless explicitly stated otherwise.

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

In reference to some specifications, you may come across an expression like: "-70 dB or more". This means that the lower the value of this specification, the greater the absolute value of the specification and the better the performance of the deck. For instance, a noise floor of -76 dB is better than -70 dB, because this means that the level of noise is lower. So in this case, "-70 dB or more" means at least as good a value as -70 dB and maybe even better, i.e., -71 dB.

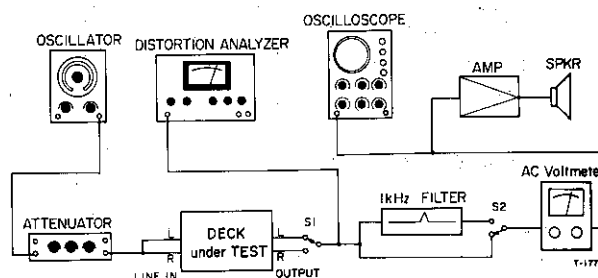


Fig. 5-1 Basic test setup

5-1 PLAYBACK PERFORMANCE

Deck settings:
EQ sw. — METAL
DOLBY NR sw. — OUT
MONITOR sw. — TAPE

TEAC test tapes:

MTT-150: For Dolby level calibration
MTT-316: For playback frequency response check
for METAL, Co (CrO₂)
MTT-501: For S/N check with NORMAL

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
1. Head azimuth	Conn. — Fig. 5-2 OUTPUT cont. — convenient output level position	MTT-150	Check	OUTPUT: • Phase: 45° max. on 'scope (Fig. 5-4)	
		MTT-316 (10 kHz)	Azimuth nut of R&P head (Fig. 5-3)	OUTPUT: • Phase: about 0° • Max. output at L-& R-ch's on VTVM	
2. Output level	—	MTT-150	R11/R21	DOLBY PLAYBACK TP 580 mV (−2.5 dB)	
	OUTPUT cont. — Max.	MTT-150	Check	OUTPUT: −3.5 dB ± 1 dB (461 mV ~ 581 mV)	Max. output level
	—	MTT-150	OUTPUT cont.	OUTPUT: −5 dB (436 mV)	• Spec. setting of OUTPUT cont. • Spec. output level
	IMPORTANT: Do not change the OUTPUT cont. setting after establishing the proper settings as above.				
3. PEAK LEVEL meter	—	MTT-150	R13/R23	PEAK LEVEL meter: 0 dB	
4. Frequency response	—	MTT-316	R12/R22	OUTPUT: See page 2	REF.: 315 Hz
	EQ sw. — NORMAL	MTT-316	Check	OUTPUT: At 10 kHz, should be about 4 dB higher than measured in above step.	
5. Signal-to-noise ratio	EQ sw. — NORMAL	Fully-erased MTT-501 tape (Use bulk tape eraser)	Check	OUTPUT: 46 dB min. ratio	Ratio of spec. output of −5 dB to noise

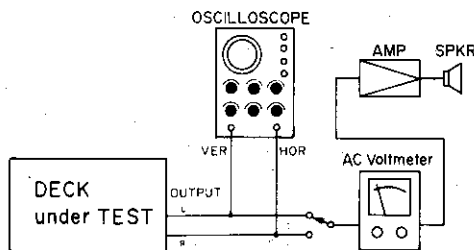


Fig. 5-2 Test setup for azimuth check

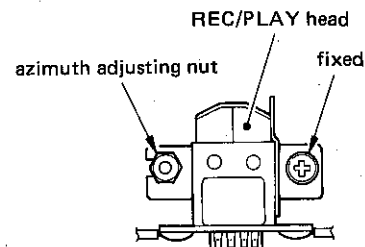


Fig. 5-3 Azimuth nut location

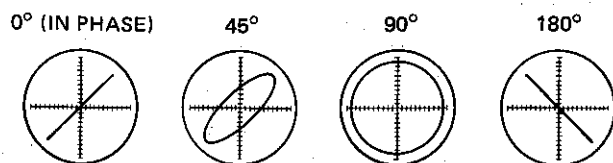


Fig. 5-4 Confirming phase relationship

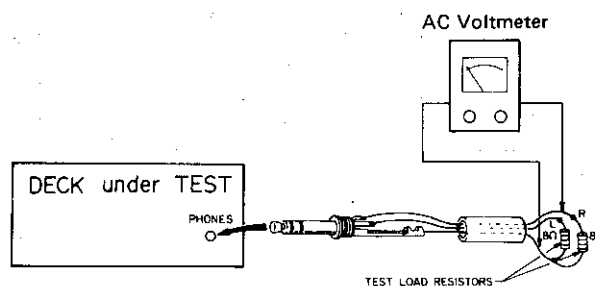


Fig. 5-5 Test setup for headphone check

Deck settings:
REC/PAUSE mode
DOLBY NR sw. —OUT
INPUT sw. —LINE
MONITOR sw. —SOURCE
OUTPUT cont. —Spec. position (item 2)

5-2 MONITOR PERFORMANCE

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
6. Min. input level	RECORD cont. — Max. INPUT sw. — MIC	MIC: 400 Hz/—67 dB (346 μ V)	Check	OUTPUT: —5 dB $\pm$ 3 dB (308 mV ~ 615 mV)	MIC min. input level
	INPUT sw. —MIC	DIN IN: 400 Hz/ —45 dB (4.36 mV)	Check	OUTPUT: —5 dB $\pm$ 3 dB (308 mV ~ 615 mV)	DIN min. input level (For European models)
	INPUT sw. — LINE	LINE IN: 400 Hz/— 19 dB (86.9 mV)	Check	OUTPUT: —5 dB $\pm$ 3 dB (308 mV ~ 615 mV)	LINE min. input level
7. LINE spec. input level	—	LINE IN: 400 Hz/—9 dB (275 mV)	Record cont.	DOLBY RECORD TP 580 mV (—2.5 dB)	Spec. setting of RECORD cont.
	—	LINE IN: 400 Hz/—9 dB (275 mV)	Check	OUTPUT: —5 dB $\pm$ 1 dB (388 mV ~ 489 mV)	
	IMPORTANT: Do not change the RECORD or, OUTPUT control settings after being adjusted above.				
8. PEAK LEVEL meter	—	LINE IN: 400 Hz/—9 dB (275 mV)	Check	PEAK LEVEL meter: 0 dB $\pm$ 1 dB	
9. Headphone output level	Conn. — Fig. 5-5	LINE IN: 400 Hz/—9 dB (275 mV)	Check	PHONES: —16 dB $\pm$ 3 dB (86.9 mV ~ 173 mV)	8 ohm load

Deck settings:
DOLBY NR sw. —OUT
INPUT sw. —LINE
OUTPUT cont. —Spec. position (item 2)
RECORD cont. —Spec. position (item 7)

TEAC test tapes:
MTT-5061: For recording test with Co (CrO₂)
MTT-501: For recording test with NORMAL
METAL: For recording test with METAL

5-3 RECORDING PERFORMANCE

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
10. Bias trap	Record-pause mode	LINE IN: no signal	L106/L206	BIAS TRAP TP: Min. reading	
11. Record bias	Co (CrO ₂)/MTT-5061 tape	LINE IN: 6.3 kHz/—42 dB (6.15 mV)	C163/C263	OUTPUT: —2.5 dB $\pm$ 1.5 dB from peak [in excessive bias position]	
12. Record level	Co (CrO ₂)/MTT-5061 tape	LINE IN: 400 Hz/—12 dB (195 mV)	R14/R24	OUTPUT: —8 dB (308 mV)	
	METAL/METAL tape NORMAL/MTT-501	LINE IN: 400 Hz/—12 dB (195 mV)	Check	OUTPUT: —8 dB $\pm$ 1.0 dB (275 mV ~ 346 mV)	
13. Total harmonic distortion	METAL/METAL tape Co (CrO ₂)/MTT-5061 NORMAL/MTT-501.....	LINE IN: 400 Hz/—12 dB (195 mV)	Check	OUTPUT: ... 2.2% or less distortion ... 2.5% or less distortion	

ITEM	INSTRUCTION	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
14. Frequency response	METAL/METAL tape Co (CrO ₂)/MTT-5061 NORMAL/MTT-501	LINE IN: Required signal/ -42 dB (6.15 mV)	METAL L104/L204 Co (CrO ₂) L103/L203 NORMAL check	OUTPUT: See: page 2	REF.: 400 Hz
15. Signal-to-noise ratio	METAL/METAL tape Co (CrO ₂)/MTT-5061 }... NORMAL/MTT-501 ...	LINE IN: 1 kHz/-9 dB (275 mV) ↓ no signal	Check	OUTPUT: 45 dB min. ratio 43 dB min. ratio	Ratio of spec. output of -5 dB to noise
16. Erase efficiency	• Connection is same as in Fig. 5-1, but engage 1-kHz filter. • Record a 1-kHz signal. Rewind tape to midpoint of recorded portion. Record a "no signal" portion. Find the difference between the 1-kHz portion and the "no-signal" portion.				
	METAL/METAL tape	LINE IN: 1 kHz/+1 dB (0.869V) ↓ no signal	Check	OUTPUT: 65 dB min. ratio	
17. REC MUTE function	• Connection: Fig. 5-1, but engage 1-kHz filter. • Record a 1-kHz signal. Push REC MUTE button for several seconds. Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion.				
	Co (CrO ₂)/MTT-5061	LINE IN: 1 kHz/+1 dB (0.869V) ↓ no signal	Check	OUTPUT: 65 dB min. ratio	
18. Channel separation	• Connection: Fig. 5-1, but do not connect LINE IN (R), and engage 1-kHz filter. • Set the deck to record mode. Find the difference between the 1-kHz recorded portion (L-ch) and the "no signal" portion (R-ch).				
	Co (CrO ₂)/MTT-5061	LINE IN: L-ch 1-kHz/-9 dB (275 mV) R-ch No signal	Check	OUTPUT: 20 dB min. ratio	
19. Adjacent track crosstalk	• Connection: Fig. 5-1, but do not connect LINE IN (L) and OUTPUT (L). • Record a 125-Hz signal on R-ch and note output level. Invert tape and play R-ch track. Check leakage level against the output reference of previously recorded portion.				
	Co (CrO ₂)/MTT-5061	LINE IN: L-ch No signal R-ch 125 Hz/-9 dB (275 mV)	Check	OUTPUT: 40 dB min. ratio	
20. Dolby NR effect	• Record a 1-kHz signal with Dolby NR switch OUT. Play this portion with Dolby NR switch set to OUT and set to IN. Obtain the difference in output level between OUT and IN positions. Repeat the above process using a 10-kHz signal.				
	Co (CrO ₂)/MTT-5061	LINE IN: 1 kHz/-29 dB (27.5 mV)	Check	OUTPUT: Variation 3 dB ~ 8 dB	
	Co (CrO ₂)/MTT-5061	LINE IN: 10 kHz/-39 dB (8.69 mV)	Check	OUTPUT: Variation 8 dB ~ 12 dB	

5-4 ADJUSTMENT AND TEST POINT LOCATIONS

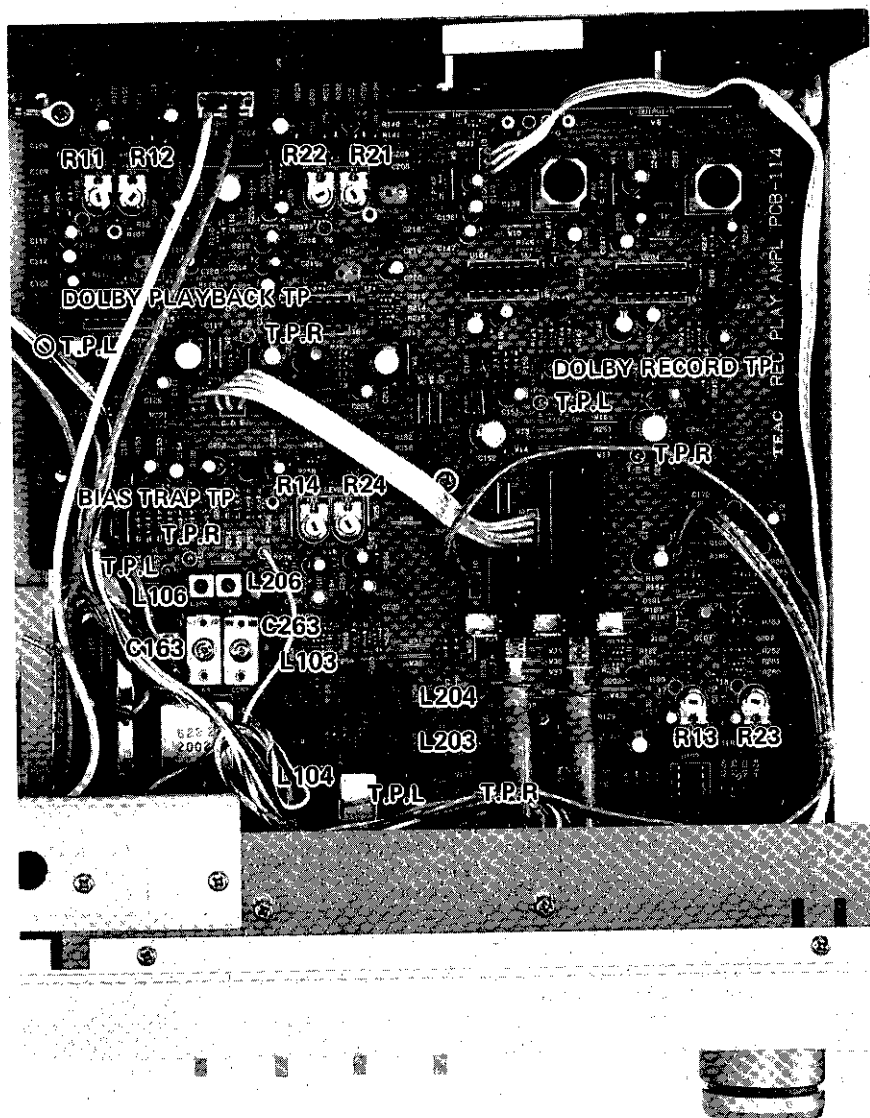


Fig. 5-6

C163/C263	Record bias [Co (CrO ₂)]
L103/L203	Record frequency response [Co (CrO ₂)]
L104/L204	Record frequency response [METAL]
L106/L206	Bias trap
R11/R21	Output level
R12/R22	Playback frequency response
R13/R23	Peak level meter
R14/R24	Record level [Co (CrO ₂)]

ASSEMBLING HARDWARE CODING LIST

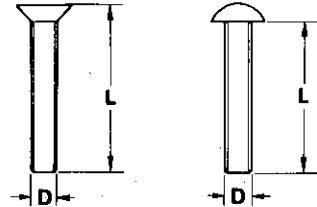
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

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

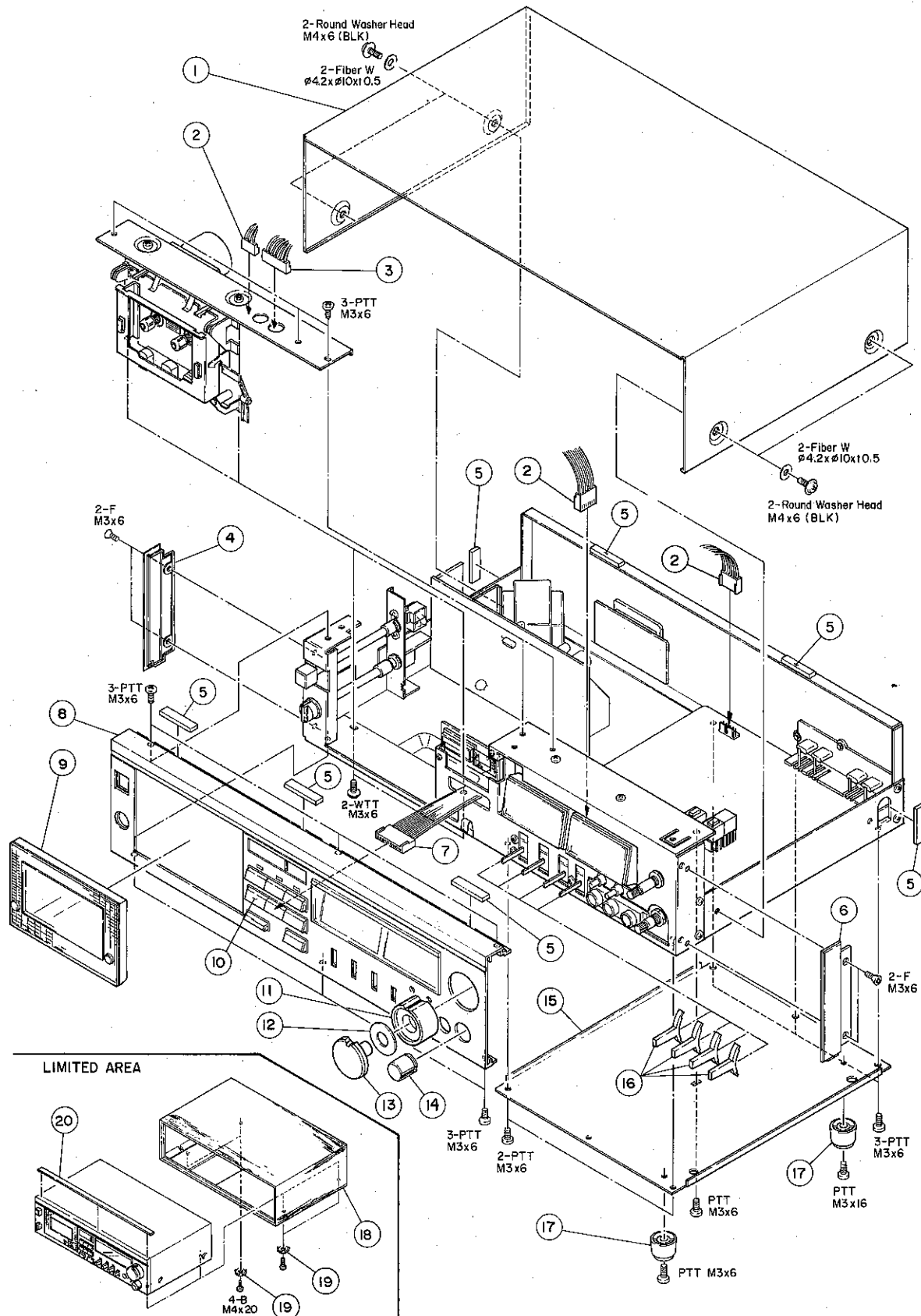


* Inner dia. for washers and nuts

	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	

6 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW - 1



EXPLODED VIEW - 1

Parts marked with *require longer delivery time.

REF. NO.	PART NO.	DESCRIPTION	REMARKS
1 - 1	*5800042600	Cover, Top [All except L]	A-660
	*5800056400	Cover, Top (Shield) [L]	A-660
1 - 2	*5122168000	Connector Socket, 6P	
1 - 3	*5122172000	Connector Socket, 10P	
1 - 4	*5800042700	Cover, Side, L	A-660
1 - 5	*5555570000	Cushion, Top Cover; B	A-500
1 - 6	*5800042800	Cover, Side, R	A-660
1 - 7	*5122174000	Connector Socket, 12P	
1 - 8	5640014700	Panel Assy, Front	
1 - 9	5640014900	Cover Assy, Cassette	
1 - 10	5301852600	Key Unit	
1 - 11	5800127800	Knob, REC; B	V-8
1 - 12	*5800025400	Washer, Felt	A-350
1 - 13	5800127700	Knob, REC; A	V-8
1 - 14	5800127600	Knob, VR	V-8
1 - 15	*5800038600	Cover, Bottom [All except L]	A-660
	*5800053300	Cover, Bottom [L]	A-660
1 - 16	*5800128300	Knob, Lever Switch	
1 - 17	*5730000200	Foot [All except L]	A-660
1 - 18	*5800055601	Cabinet Assy [L]	A-660
1 - 19	*5555526000	Washer [L]	A-601R
1 - 20	*5200143400	Cushion [L]	A-660

INCLUDED ACCESSORIES

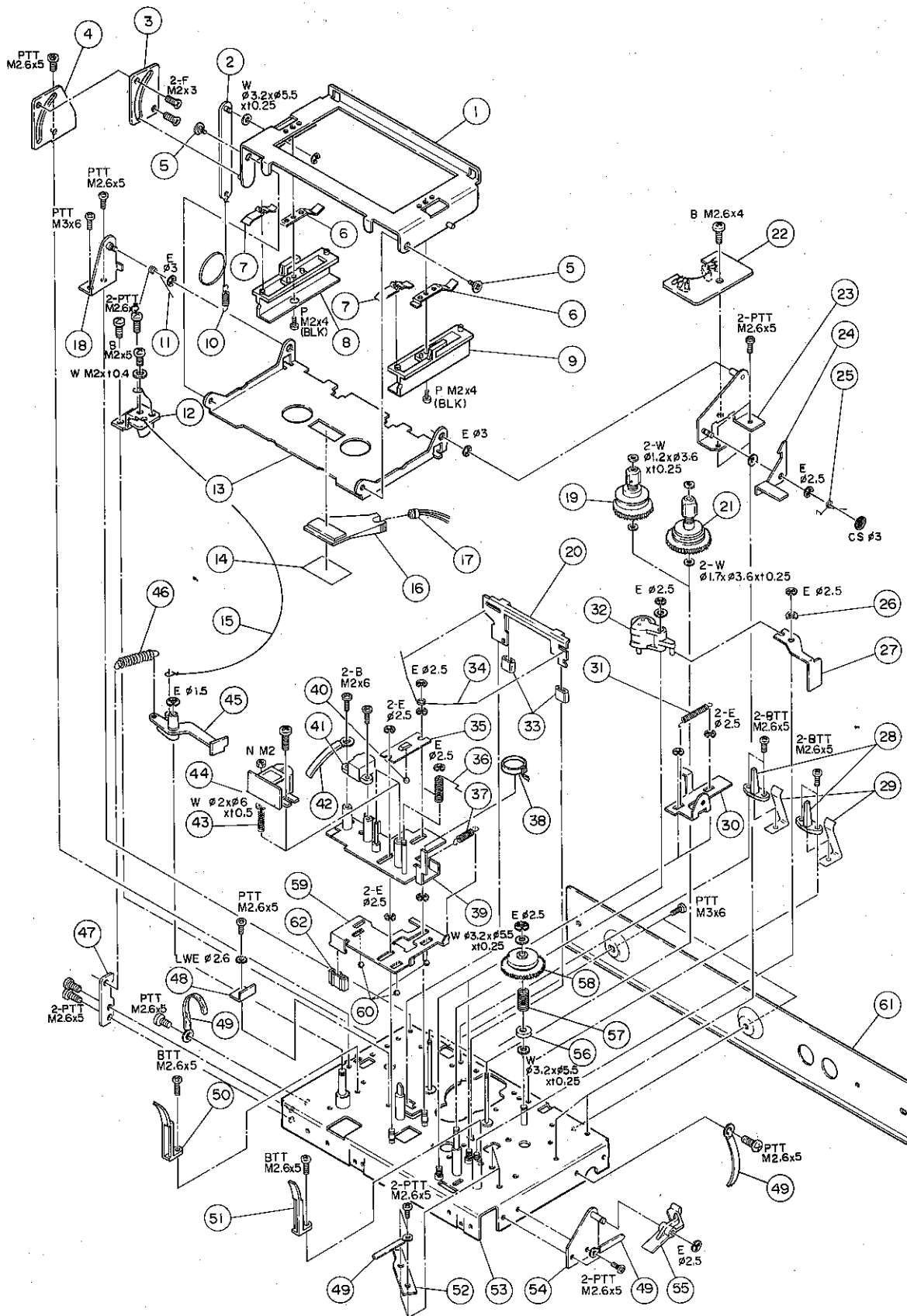
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5700012400	Owner's Manual [U]	
	5700012500	Owner's Manual [All except U, L]	
	5101345000	Information Supplement, Cassette [U]	
	5101495000	Information Supplement, Cassette [All except U, L]	
	5128107000	Cord, In-output Connection	

[U]: U.S.A.
[A]: AUSTRALIA
[L]: LIMITED AREA

[C]: CANADA
[E]: EUROPE

[GE]: GENERAL EXPORT
[UK]: U.K.

EXPLODED VIEW - 2



EXPLODED VIEW - 2

Parts marked with *require longer delivery time.

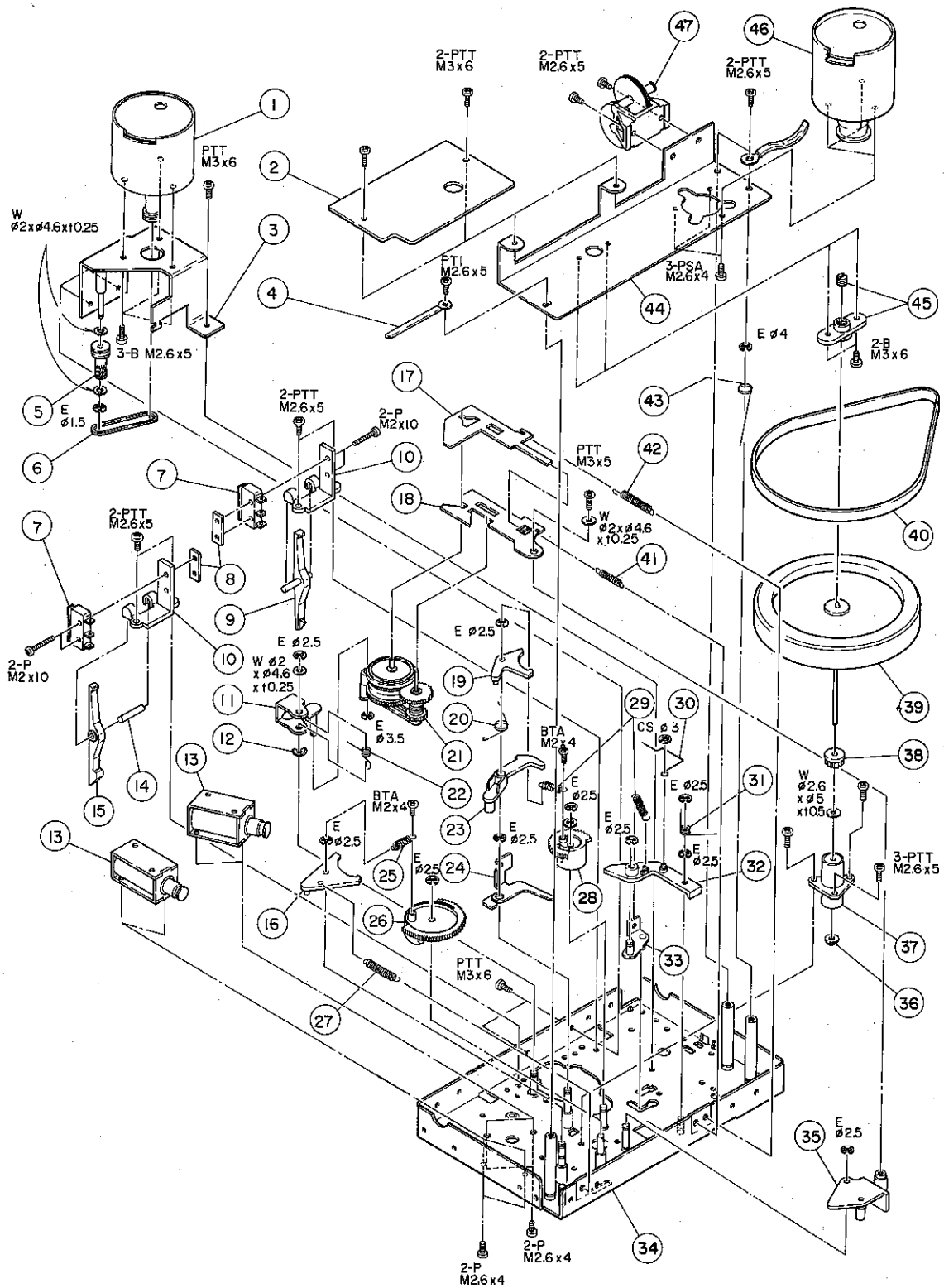
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	*5800030402	Holder Assy, Cassette	A-660
2 - 2	*5800030100	Plate Assy, Damper	A-660
2 - 3	*5800103200	Guide, Holder; B	
2 - 4	*5800103100	Guide, Holder; A	
2 - 5	*5545159000	Screw, Shoulder	C-2
2 - 6	*5800103400	Spring, Cassette Pressure; B	
2 - 7	*5800103300	Spring, Cassette Pressure; A	
2 - 8	5800034101	Guide, Cassette L	A-660
2 - 9	5800034001	Guide, Cassette R	A-660
2 - 10	*5524203000	Spring, Damper	A-500
2 - 11	*5800040801	Spring, Holder Push; L	A-660
2 - 12	*5800045000	Plate, Tension Adjusting	
2 - 13	*5800128400	Plate, Cassette	V-8
2 - 14	*5800002900	Plate, Reflective	C-2
2 - 15	*5788200200	Thread, Dial	
2 - 16	*5800033300	Lens, Lamp	A-660
2 - 17	5142201000	Lamp, DC 6V 65mA	
2 - 18	*5800027901	Bracket Assy, Holder; L	A-660
2 - 19	5800038401	Reel Table Assy, Supply	A-660
2 - 20	*5800103500	Plate, Brake; B	
2 - 21	5800025900	Reel Table Assy, Take-up	A-660
2 - 22	*5210037500	PCB, STOP SENSOR	
	*5143129000	D1D0E; Zener RD516EB	
	*5183070000	CARBON RESISTOR, 330Ω ±5%	
2 - 23	*5800027501	Bracket Assy, Holder; R	A-660
2 - 24	*5800033200	Plate, Holder Lock	A-660
2 - 25	*5800040601	Spring, Holder Lock	A-660
2 - 26	*5555352000	Washer, Wave	
2 - 27	*5800034301	Arm, Eject Preventing	A-660
2 - 28	*5800033500	Stopper, Cassette	A-660
2 - 29	*5800033400	Spring, Cassette Pressure	A-660
2 - 30	*5800035400	Lever, Pause	A-660
2 - 31	*5800040200	Spring, Pause Lever	
2 - 32	5800029600	Arm Assy, Pinch Roller	A-660
2 - 33	*5800103600	Shoe, Brake	A-660
2 - 34	*5800040000	Spring, Brake	A-660
2 - 35	*5800035700	Guide, Steel Ball	A-660
2 - 36	*5800123800	Spring, Pinch Roller; B	
2 - 37	*5800039401	Spring, Head Base Pressure	A-660
2 - 38	*5786720100	Clamper, Cord; BK-1 (BLK)	
2 - 39	*5800045200	Plate Assy, Head Base; A	A-660
2 - 40	5540055000	Steel Ball, φ2	
2 - 41	5378900300	Head, Erase	C-3
2 - 42	*5581062000	Clamper, Cord; E	
2 - 43	*5520002100	Spring, Head Adjusting	A-450
2 - 44	5569612100	Head, REC/PLAY	
2 - 45	*5533174000	Arm, Tension	
2 - 46	*5524208000	Spring, Tension	
2 - 47	*5800045100	Plate, Tension	
2 - 48	*5800035800	Stopper, Head Base	A-660
2 - 49	*5581038000	Clamper, Cord; A	
2 - 50	*5800102900	Guide, Cassette; L	
2 - 51	*5800103000	Guide, Cassette; R	
2 - 52	*5800089901	Plate, Adjust	A-660
2 - 53	*5800045700	Chassis Assy, Mechanism	
2 - 54	*5800029501	Plate Assy, Eject	A-660
2 - 55	*5800034400	Arm, Eject	A-660
2 - 56	*5800124200	Support, Spring	
2 - 57	*5800124300	Spring, Tension	
2 - 58	*5800124000	Gear Assy, Counter	
2 - 59	*5800035901	Sub Plate Assy, Head Base	A-660
2 - 60	5540056000	Steel Ball, φ3	A-450
2 - 61	*5800041002	Bracket, Mechanism	A-660
2 - 62	*5228700200	Hole IC, DN6838	

[U]: U.S.A.
[A]: AUSTRALIA
[L]: LIMITED AREA

[C]: CANADA
[E]: EUROPE

[GE]: GENERAL EXPORT
[UK]: U.K.

EXPLODED VIEW - 3



EXPLODED VIEW - 3

Parts marked with *require longer delivery time.

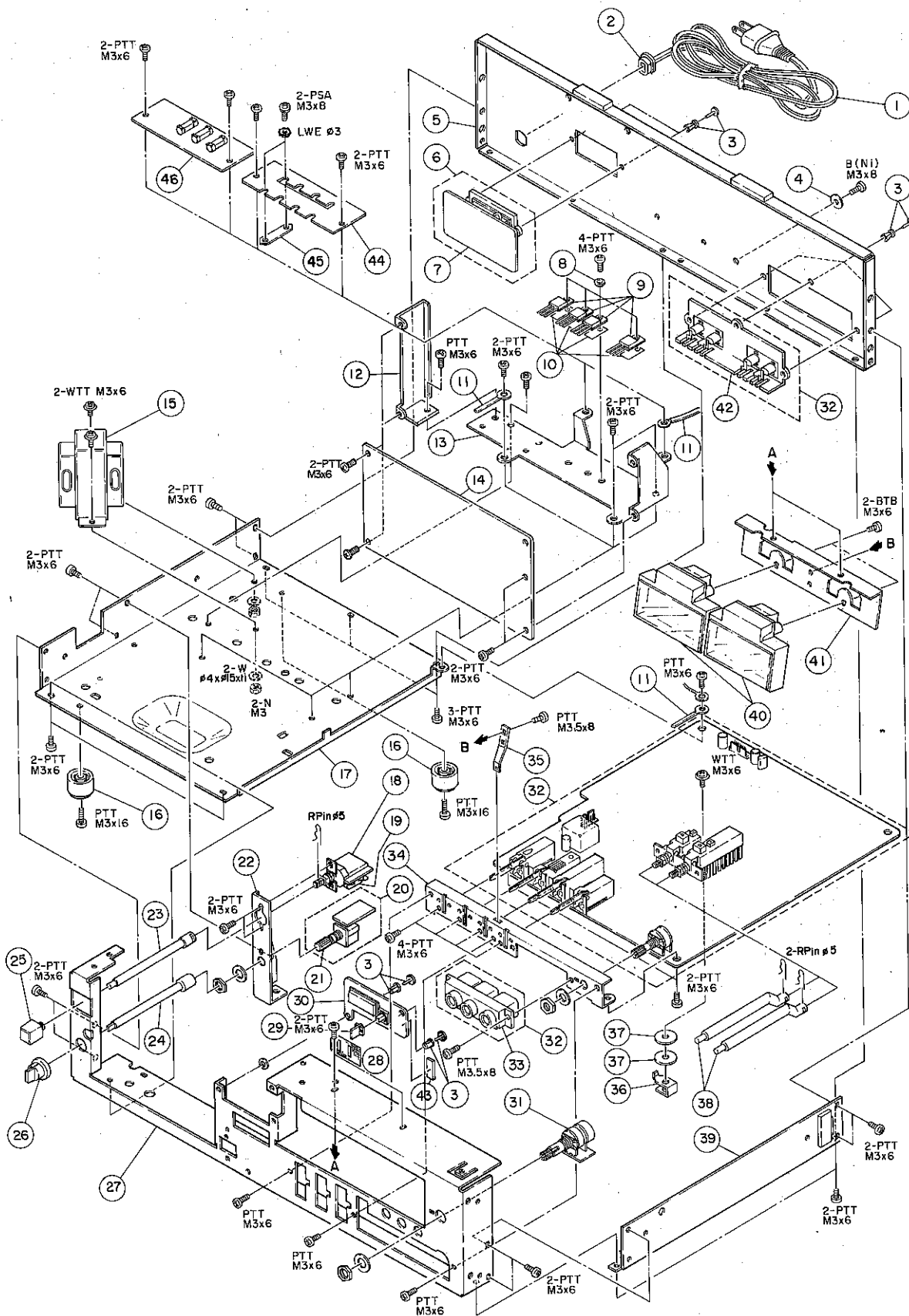
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	5370001000	Motor Assy, Reel	
3 - 2	*5200005800	PCB Assy, JOINT	
3 - 3	*5800082701	Bracket Assy, Reel Motor	A-660
3 - 4	*5581038000	Clamper, Cord; A	
3 - 5	5800123600	Pulley Assy, Relay	
3 - 6	5800104100	Belt, Reel	A-660
3 - 7	*5301455300	Switch, Micro	
3 - 8	*5554447000	Plate, Micro Switch	
3 - 9	*5800034600	Lever, Switch; A	A-660
3 - 10	*5800034500	Holder, Switch	A-660
3 - 11	*5800083101	Arm Assy, Relay Gear	A-660
3 - 12	*5555352000	Washer, Warv	
3 - 13	5213000301	Solenoid	
3 - 14	*5800055900	Shaft, Switch Lever	A-660
3 - 15	*5800034700	Lever, Switch; B	A-660
3 - 16	*5800037300	Arm, Play Lock	A-660
3 - 17	*5800036801	Plate, Gear Guide; B	
3 - 18	*5800036701	Plate, Gear Guide; A	
3 - 19	*5800037000	Arm, FF Lock	A-660
3 - 20	*5800045901	Spring, FF Lock	A-660
3 - 21	5800082302	Gear Assy, Take-up	A-660
3 - 22	*5800083300	Spring, Relay Pulley	A-660
3 - 23	*5800035301	Arm, Pause	A-660
3 - 24	*5800037402	Plate, Reel Gear Guide	A-660
3 - 25	*5800039501	Spring, Head Base Gear	A-660
3 - 26	5800037201	Gear, Head Base	A-660
3 - 27	*5800072300	Spring, Play Lock Arm	A-660
3 - 28	5800073102	Gear, Pause	A-660
3 - 29	*5800039600	Spring, Pause Gear	A-660
3 - 30	*5800035600	Bar, Brake Actuating	A-660
3 - 31	*5800045800	Spring, Brake Actuating Arm; A	A-660
3 - 32	*5800036600	Arm Assy, Brake Actuating; A	A-660
3 - 33	*5800028702	Arm Assy, Brake Actuating; B	A-660
3 - 34	*5800045700	Chassis Assy, Mechanism	A-660
3 - 35	*5800036901	Arm, Play	
3 - 36	*5534130000	Washer, Oil Retaining	A-660
3 - 37	5800028500	Housing Assy, Capstan	A-660
3 - 38	5800036000	Gear, Flywheel	A-660
3 - 39	5800029101	Flywheel Assy	C-1
3 - 40	*5534504000	Belt	A-660
3 - 41	*5800039701	Spring, Gear Plate; A	A-660
3 - 42	*5800039800	Spring, Gear Plate; B	A-660
3 - 43	*5800039301	Spring, Head Base	A-660
3 - 44	*5800036101	Bracket, Flywheel	
3 - 45	*5534277000	Bearing Assy, Thrust	
3 - 46	5870001600	Motor Assy, Capstan	V-8
3 - 47	*5800084300	Damper Assy	A-660

[U]: U.S.A.
 [A]: AUSTRALIA
 [L]: LIMITED AREA

[C]: CANADA
 [E]: EUROPE

[GE]: GENERAL EXPORT
 [UK]: U.K.

EXPLODED VIEW - 4



EXPLODED VIEW - 4

Parts marked with *require longer delivery time.

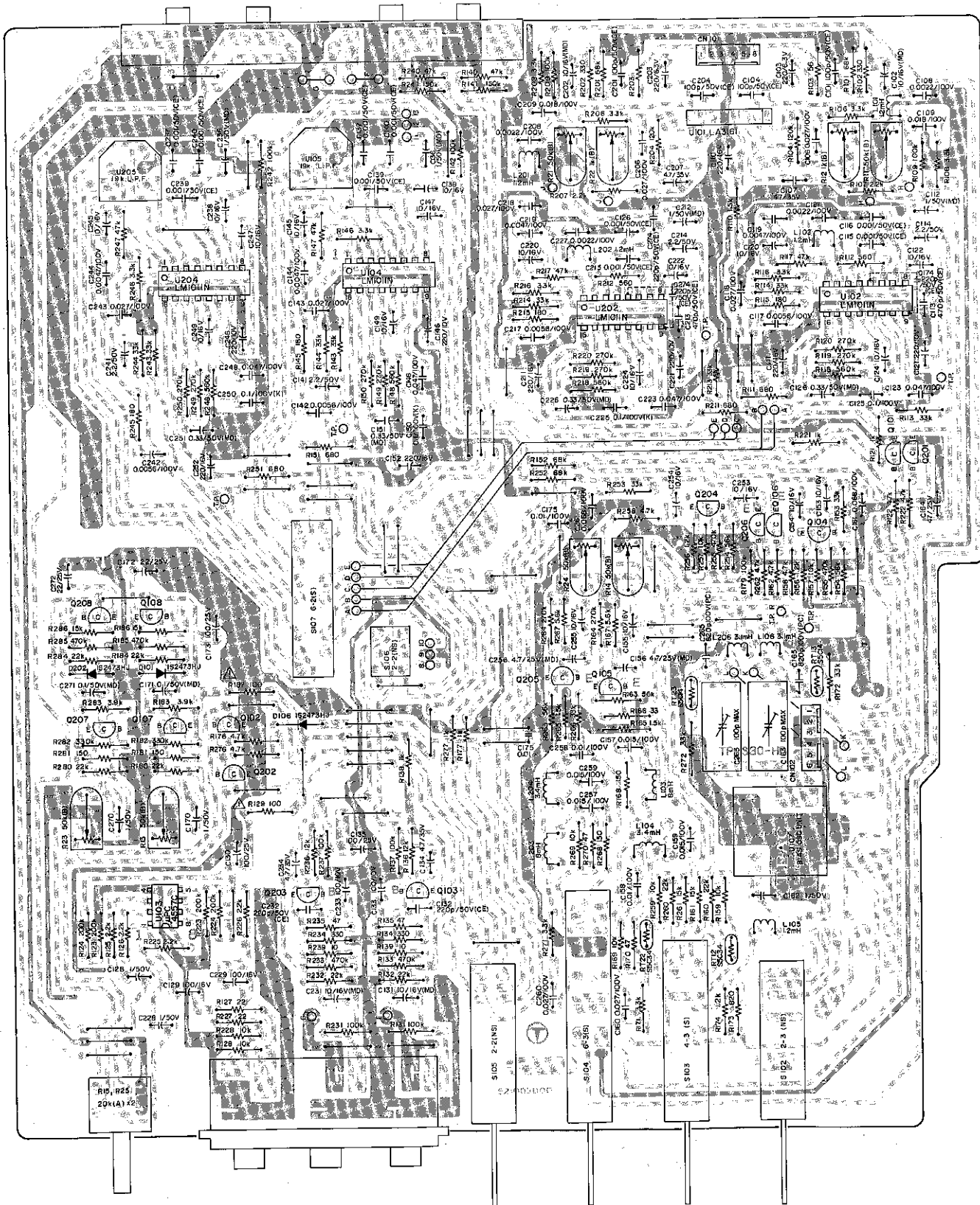
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	△ 5128034000 △ 5128036000 △ 5128075000 △ 5350008200 △ 5350008300	Cord, AC Power [GE, L] Cord, AC Power [UK] Cord, AC Power [U, C] Cord, AC Power [E] Cord, AC Power [A]	
4 - 2	*5534661000 *5534661000	Strain Relief, AC Cord [All except UK] Strain Relief, AC Cord [UK]	
4 - 3	*5534118000	Rivet, Push	A-400
4 - 4	*5555063000	Washer, GND	A-200
4 - 5	*5800038901	Panel, Rear	A-660
4 - 6	*5620010400	Connector Assy, REMOTE	
4 - 7	*5200008900	PCB Assy, REMOTE	
4 - 8	*5033295000	Tube, Insulating	
4 - 9	*5231755100	Transistor, 2SD-880Y	
4 - 10	*5033291000	Plate, Insulating	
4 - 11	*5581038000	Clamper, Cord; A	
4 - 12	*5800042501	Bracket, PCB; B	A-660
4 - 13	*5800042401	Bracket, PCB; A	A-660
4 - 14	*5620031800	PCB Assy, CONTROL	
4 - 15	△ *5320001000 △ *5320001100 △ *5320001200	Transformer, Power [GE, L] Transformer, Power [U, C] Transformer, Power [E, UK, A]	
4 - 16	5730000200	Foot [All except L]	
4 - 17	*5800038800 *5800053200	Chassis, Left [All except L] Chassis, Left [L]	
4 - 18	△ *5134018000 △ *5134009000 △ *5134011000	Switch, Push; Power [U, C] Switch, Push; Power [GE, L] Switch, Push; Power [E, UK, A]	
4 - 19	△ *5052905000 △ *5052910000 △ *5052911000 △ *5267702500	Spark Killer, 0.01μF + 120Ω/300V [GE, L] Spark Killer, 0.033μF + 120Ω/125V [T] Spark Killer, 0.033μF + 120Ω/250V [C] Spark Killer, 0.0047μF/250V [E, UK, A]	
4 - 20	*5200008800	PCB Assy, TIMER	
4 - 21	*5133019000	Rotary Switch, 2-3 Non Short	
4 - 22	*5800042300	Bracket, SW	A-660
4 - 23	*5800008300	Bar, Power Switch	A-350
4 - 24	*5800046900	Rod, B	A-660
4 - 25	5800127900	Knob, Power Switch	A-660
4 - 26	5800128200	Knob, Timer Switch	A-660
4 - 27	*5800039001	Chassis, Front	A-660
4 - 28	*5800124400	Mask, Switch	
4 - 29	5800129000	Knob Set	
4 - 30	*5200032000	PCB Assy, COUNTER	
4 - 31	*5200009200	PCB Assy, VR	
4 - 32	*5200031900	PCB Assy, REC/PLAY AMPL. [All except E]	
4 - 33	*5200031910	PCB Assy, REC/PLAY AMPL. [E]	
4 - 34	*5124063000	Jack Assy, 3-gang	
4 - 35	*5800042202	Bracket, Switch	A-660
4 - 36	*5800108600 *5555059100	Plate, Reinforcing Bracket, PCB	A-200
4 - 37	*5735254000	Washer, Bakelite; φ4 x φ12 x t1	
4 - 38	*5800042102	Knob, Select	A-660
4 - 39	*5800038701	Chassis, Right	A-660
4 - 40	5296002100	Meter, Peak Level	A-660
4 - 41	*5800041501	Bracket, Meter	A-660
4 - 42	*5126038000 *5126037000	Terminal Assy, In-output [All except E] Terminal Assy, In-output [E]	
4 - 43	*5800129900	Cushion, PCB	
4 - 44	*5168548100	PCB Assy, VOLTAGE SELECTOR [GE, L]	
4 - 45	*5555062000	Bar, Shorting; A [GE, L]	
4 - 46	*5200006000	PCB Assy, FUSE [UK, E]	

[U]: U.S.A.
[A]: AUSTRALIA
[L]: LIMITED AREA

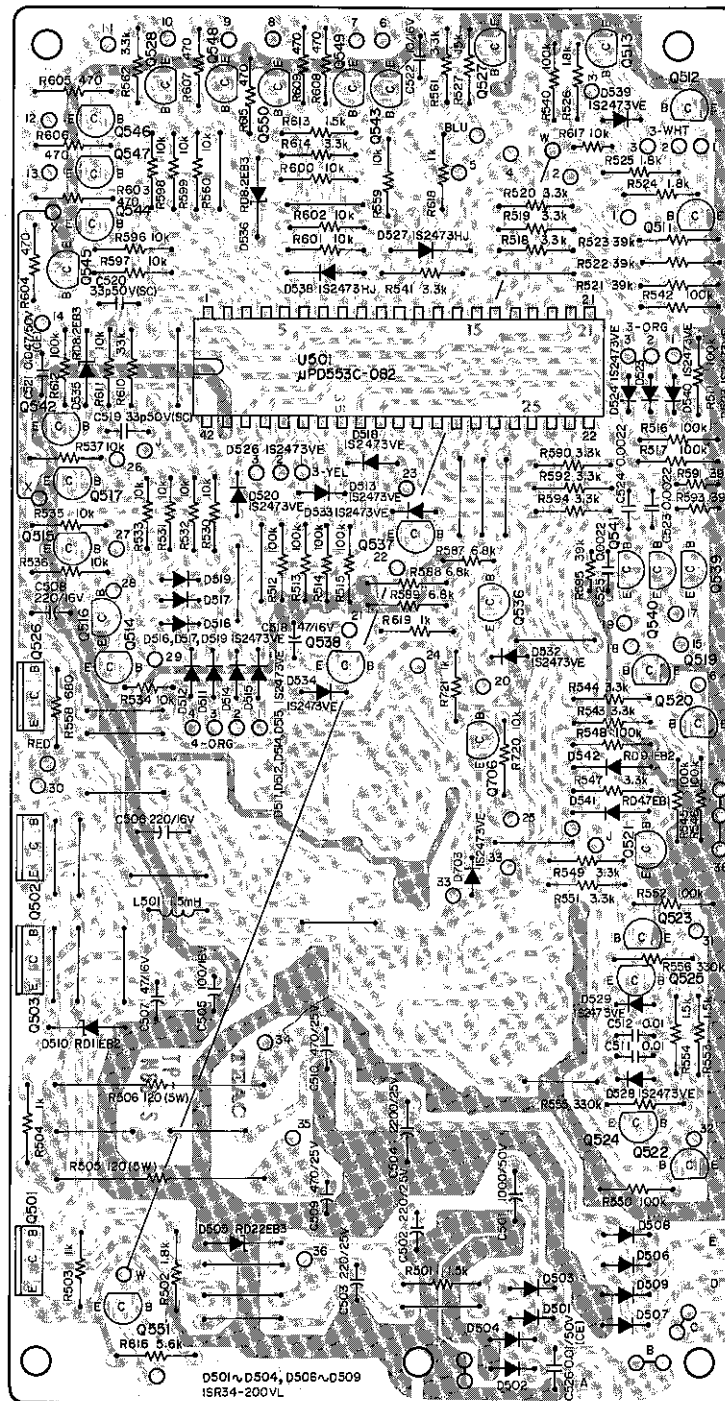
[C]: CANADA
[E]: EUROPE

[GE]: GENERAL EXPORT
[UK]: U.K.

7 PC BOARDS AND PARTS LIST



CONTROL PCB ASSY

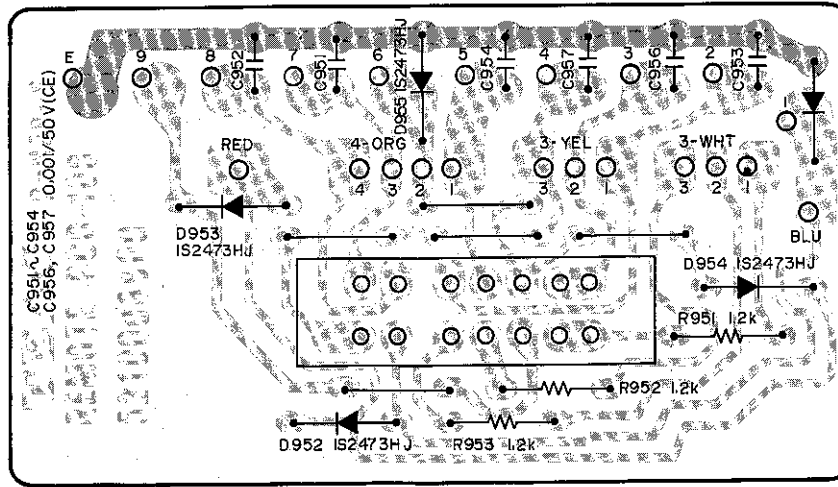


NOTES

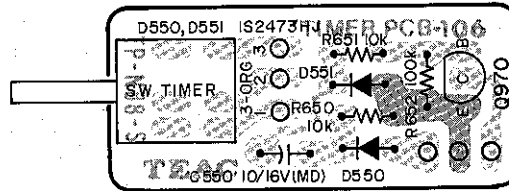
1. PC Boards shown viewed from foil side.
2. The colors used on the PCB illustrations have the following significance.

	: +B power supply circuit
	: GND
	: Other
3. Resistor values are in ohms (k = 1,000 ohms).
4. All capacitor values are in microfarads (p = picofarads).

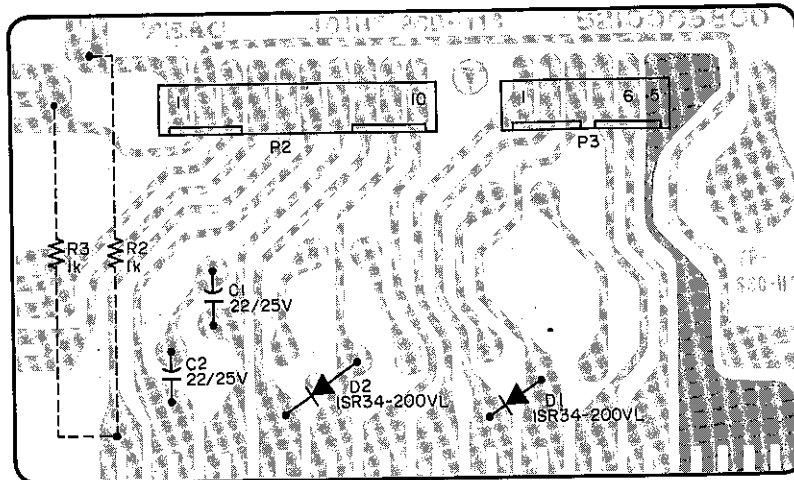
REMOTE PCB ASSY



TIMER PCB ASSY



JOINT PCB ASSY



PCB ASSY, REC/PLAY AMPL.

REF. NO.	PARTS NO.	DESCRIPTION
	5200031900	PCB Assy [All except E]
	5200031910	PCB Assy [E]
	5210031100	PCB
	IC's	
U101	5147062000	LA3161
U102, U202	5147077000	LM1011N
U103	5220405000	μPC4557C
U104, U204	5147077000	LM1011N
U105	5292802500	F350
	TRANSISTORS	
Q101, Q201	5231757000	2SD1012G
Q102, Q202	5231757000	2SD1012G
Q103, Q203	5145119000	2SD1844F
Q104, Q204	5042486000	2SC536G
Q105, Q205	5042486000	2SC536G
Q106, Q206	5231757000	2SD1012G
Q107, Q207	5042486000	2SC536G
Q108, Q208	5145086000	2SC16362
	DIODES	
D101, D201	5143118000	IS2473HJ
D106	5143118000	IS2473HJ
	RESISTORS	
All resistors are rated ±5% tolerance, ¼ watt, and of carbon type unless otherwise noted.		
R101, R201	5183126000	68kΩ
R102, R202	5183070000	330Ω
R103, R203	5183052000	56Ω
R104, R204	5183132000	120Ω
R106, R206	5183094000	3.3kΩ
R107, R207	5183090000	2.2kΩ
R108, R208	5183094000	3.3kΩ
R109, R209	5183130000	100kΩ
R110	5183086000	1.5kΩ
R111, R211	5183078000	680Ω
R112, R212	5183076000	560Ω
R113, R213	5183118000	33kΩ
R114, R214	5183118000	33kΩ
R115, R215	5183064000	180Ω
R116, R216	5183094000	3.3kΩ
R117, R217	5183122000	47kΩ
R118, R218	5183148000	560kΩ
R119, R219	5183140000	270kΩ
R120, R220	5183140000	270kΩ
R121, R221	5183083000	1kΩ
R122, R222	5183098000	4.7kΩ
R123, R223	5183137000	200kΩ
R124, R224	5183137000	200kΩ
R125, R225	5183090000	2.2kΩ
R126, R226	5183090000	2.2kΩ
R127, R227	5183042000	22Ω
R128, R228	5183106000	10kΩ
R129	Δ 5184249000	100Ω
R130, R230	5183106000	10kΩ
R131, R231	5183130000	100kΩ
R132, R232	5183114000	22kΩ
R133, R233	5183146000	470kΩ
R134, R234	5183070000	330Ω
R135, R235	5183050000	47Ω
R136, R236	5183108000	12kΩ

REF. NO.	PARTS NO.	DESCRIPTION
R137, R237	5183130000	100kΩ
R138	5183082000	1kΩ
R139, R239	5183034000	10Ω
R140, R240	5183122000	47kΩ
R141, R241	5183134000	150kΩ
R142, R242	5183130000	100kΩ
R143, R243	5183118000	33kΩ
R144, R244	5183118000	33kΩ
R145, R245	5183064000	180Ω
R146, R246	5183094000	3.3kΩ
R147, R247	5183122000	47kΩ
R148, R248	5183148000	560kΩ
R149, R249	5183140000	270kΩ
R150, R250	5183140000	270kΩ
R151, R251	5183078000	680Ω
R152, R252	5183126000	68kΩ
R153, R253	5183118000	33kΩ
R154, R254	5183124000	56kΩ
R155, R255	5183146000	470kΩ
R156, R256	5183084000	1.2kΩ
R157, R257	5183106000	10kΩ
R158, R258	5183098000	4.7kΩ
R159, R259	5183106000	10kΩ
R160, R260	5183114000	22kΩ
R161, R261	5183110000	15kΩ
R162, R262	5183098000	4.7kΩ
R163, R263	5183124000	56kΩ
R164, R264	5183140000	270kΩ
R165, R265	5183086000	1.5kΩ
R166, R266	5183046000	33kΩ
R167, R267	5183100000	5.6kΩ
R168, R268	5183062000	150Ω
R169, R269	5183106000	10kΩ
R170, R270	5183050000	47Ω
R171, R271	5183094000	3.3kΩ
R172, R272	5183118000	33kΩ
R173	5183080000	820Ω
R174	5183084000	1.2kΩ
R176, R276	5183098000	4.7kΩ
R177, R277	5183082000	1kΩ
R178, R278	5183082000	1kΩ
R179	5183130000	100kΩ
R180, R280	5183114000	22kΩ
R181, R281	5183062000	150Ω
R182, R282	5183142000	330kΩ
R183, R283	5183096000	3.9kΩ
R184, R284	5183114000	22kΩ
R185, R285	5183146000	470kΩ
R186, R286	5183110000	15kΩ
R187	Δ 5184249000	100Ω Nonflammable
	CAPACITORS	
C101, C201	5172312000	Ceramic 100pF 50V 10%
C102, C202	5173571800	Elec 10μF 16V
C103, C203	5173052800	Elec 220μF 6.3V
C104, C204	5172312000	Ceramic 100pF 50V 10%
C106, C206	5170435000	Mylar 0.027μF 100V 5%
C107, C207	5173005800	Elec 4.7μF 35V
C108, C208	5170409000	Mylar 0.0022μF 100V 5%
C109, C209	5170431000	Mylar 0.018μF 100V 5%
C110	5173054800	Elec 220μF 16V
C111, C211	5173054800	Elec 220μF 16V

[U]: U.S.A.
[A]: AUSTRALIA
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[E]: EUROPE

[GE]: GENERAL EXPORT
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REF. NO.	PARTS NO.	DESCRIPTION
C112, C211	5173556800	Elec 1μF 50V
C113, C213	5172320000	Ceramic 470pF 50V 10%
C114, C214	5172996800	Elec 2.2μF 50V
C115, C215	5172324000	Ceramic 0.001μF 50V 10%
C116, C216	5172324000	Ceramic 0.001μF 50V 10%
C117, C217	5170419000	Mylar 0.0056μF 100V 5%
C118, C218	5170435000	Mylar 0.027μF 100V 5%
C119, C219	5170417000	Mylar 0.0047μF 100V 5%
C120, C220	5173010800	Elec 10μF 16V
C121, C221	5173053800	Elec 220μF 10V
C122, C222	5173010800	Elec 10μF 16V
C123, C223	5170441000	Mylar 0.047μF 100V 5%
C124, C224	5173010800	Elec 10μF 16V
C125, C225	5170519000	Mylar 0.1μF 100V 10%
C126, C226	5173553800	Elec 0.33μF 50V
C127, C227	5170409000	Mylar 0.0022μF 100V 5%
C128, C228	5172992800	Elec 1μF 50V
C129, C229	5173045800	Elec 100μF 10V
C130	5173046800	Elec 100μF 25V
C131, C231	5173571800	Elec 10μF 16V
C132, C232	5172316000	Ceramic 220pF 50V 10%
C133, C233	5173044800	Elec 100μF 10V
C134, C234	5173005800	Elec 4.7μF 35V
C135	5173046800	Elec 100μF 25V
C136, C236	5173556800	Elec 1μF 50V
C137, C237	5172324000	Ceramic 0.01μF 50V 10%
C138, C238	5173010800	Elec 10μF 16V
C139, C239	5272324000	Ceramic 0.001μF 50V 10%
C140, C240	5172324000	Ceramic 0.001μF 50V 10%
C141, C241	5172996800	Elec 2.2μF 50V
C142, C242	5170419000	Mylar 0.0056μF 100V 5%
C143, C243	5170435000	Mylar 0.0027μF 100V 5%
C144, C244	5170417000	Mylar 0.0047μF 100V 5%
C145, C245	5173010800	Elec 10μF 16V
C146, C246	5173053800	Elec 220μF 10V
C147, C247	5173010800	Elec 10μF 16V
C148, C248	5170441000	Mylar 0.047μF 100V 50%
C149, C249	5173010800	Elec 10μF 16V
C150, C250	5170519000	Mylar 0.1μF 100V 10%
C151, C251	5173553800	Elec 0.33μF 50V
C152, C252	5173054800	Elec 220μF 16V
C153, C253	5173010800	Elec 10μF 16V
C154, C254	5173010800	Elec 10μF 16V
C155, C255	5173010800	Elec 10μF 16V
C156, C256	5173564800	Elec 47μF 25V
C157, C257	5170429000	Mylar 0.015μF 100V 5%
C158, C258	5170425000	Mylar 0.01μF 100V 5%
C159, C259	5170429000	Mylar 0.015μF 100V 5%
C160, C260	5170435000	Mylar 0.027μF 100V 5%
C161, C261	5170445000	Mylar 0.068μF 100V 5%
C162	5172992800	Elec 1μF 50V
C163, C263	5054704000	Trimmer 100pF
C164	5173037800	Elec 47μF 25V
C165, C265	5173731000	Polyst 820pF 100V 5%
C170, C270	5172992800	Elec 1μF 50V
C171, C271	5173550800	Elec 0.1μF 50V
C172, C272	5173019800	Elec 22μF 25V
C173	5173046800	Elec 100μF 25V
C174, C274	5172316000	Ceramic 220pF 50V 10%
C175	5170425000	Mylar 0.01μF 100V 5%

REF. NO.	PARTS NO.	DESCRIPTION
VARIABLE RESISTORS		
R11, R21	5280004002	Semi-fixed 50kΩ(B)
R12, R22	5280002802	Semi-fixed 1kΩ(B)
R13, R23	5280004002	Semi-fixed 50kΩ(B)
R14, R24	5280004002	Semi-fixed 50kΩ(B)
R15, R25	5282405602	Semi-fixed 20k(Ω) x 2
COILS		
L101, L201	5160107000	Choke 1200μF
L102, L202	5160107000	Choke 1200μF
L103, L203	5286000400	Choke 8mH Variable
L104, L204	5086000500	Choke 3.4mH Variable
L105	5160151000	Choke 1.2mH Variable
L106, L206	5286001000	Choke 3.1mH Variable
MISCELLANEOUS		
U107	5292200220	OSC Unit
S102	5132036000	Switch, Lever, 2-3
S103	5132034000	Switch, Lever, 4-3
S104	5132038000	Switch, Lever, 6-3
S105	5132037000	Switch, Lever, 2-2
S106, S107	5300018200	Switch, Push; DPDT (2-gang)
RT12, RT22	5143128000	Thermistor S5C-34
RT13, RT23	5143127000	Thermistor S5C-14
	5126038000	Terminal Assy, IN/OUT
		[All except E]
	5126037000	Terminal Assy, IN/OUT [E]
	5122130000	Connector Plug, 6P
	5122130000	Connector Plug, 6P
	5544750000	Pin, T.P. (6 used)

CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200032101	PCB Assy
	5210008701	PCB
IC'S		
U501	5220802700	μPD553C
TRANSISTORS		
Q501~Q503	5231755100	2SD880Y
Q511~Q517	5145151000	2SD1815GR
Q519, Q520	5145082000	2SC2060Q
Q521	5145151000	2SC1815GR
Q522, Q523	5145082000	2SC2060Q
Q522, Q525	5145084000	2SA934Q
Q526	5231755100	2SD880Y
Q527, Q528	5145151000	2SC1815GR
Q536~Q538	5145150000	2SA1015GR
Q539~Q550	5145151000	2SC1815GR
Q551	5145084000	2SA934Q

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REF. NO.	PARTS NO.	DESCRIPTION
DIODES		
D510~D504	5143116000	1SR34-200VL
D505	5224517500	Zener, RD22EB3
D506~D509	5143116000	1SR34-200VL
D510	5224518100	Zener, RD22EB3
D511~D526	5042517000	1S2473VE
D527	5143118000	1S2473HJ
D528~D530	5042517000	1S2473VE
D531	5042554000	Zener, RD6.2EB 3%
D532~D534	5042517000	1S2473VE
D535, D536	5224518000	Zener, RD8.2EB 3%
D537	5042554000	Zener, RD6.2EB 3%
D538	5143118000	1S2473HJ
D539, D540	5042517000	1S2473VE
D541	5224531501	Zener, RD4.7EB1
D542	5224531601	Zener, RD9.1EB2
RESISTORS		
All resistors are rated $\pm 5\%$ tolerance, $\frac{1}{4}$ watt, and of carbon type unless otherwise noted.		
R501	5183086000	1.5k Ω
R502	5183088000	1.8k Ω
R503, R504	5183082000	1k Ω
R505, R506	5184429000	120 Ω 5W 10% Cement
R511~R517	5183130000	100k Ω
R518~R520	5183094000	3.3k Ω
R521~R523	5183120000	39k Ω
R524~R526	5183088000	1.8k Ω
R527	5183130000	100k Ω
R530~R533	5183106000	10k Ω
R534	5240170600	10k Ω
R535~R537	5183106000	10k Ω
R540	5183130000	100k Ω
R541	5183094000	3.3k Ω
R542	5183130000	100k Ω
R543, R544	5183094000	3.3k Ω
R545, R546	5183130000	100k Ω
R547	5183094000	3.3k Ω
R548	5183130000	100k Ω
R549	5183094000	3.3k Ω
R550	5183130000	100k Ω
R551	5183094000	3.3k Ω
R552	5183130000	100k Ω
R553, R554	5183086000	1.5k Ω
R555, R556	5183142000	330k Ω
R558	5183078000	680 Ω
R559, R560	5183106000	10k Ω
R561, R562	5183094000	3.3k Ω
R567	5240170200	6.8k Ω
R588~R589	5183102000	6.8k Ω
R590	5183094000	3.3k Ω
R591	5240172000	39k Ω
R592	5183094000	3.3k Ω
R593	5240172000	39k Ω
R594	5183094000	3.3k Ω
R595	5240172000	39k Ω
R596~R602	5183106000	10k Ω
R603~R609	5183074000	470 Ω
R610	5183118000	33k Ω
R611	5183106000	10k Ω

REF. NO.	PARTS NO.	DESCRIPTION
R612	5183130000	100k Ω
R613	5183086000	1.5k Ω
R614	5183094000	3.3k Ω
R615	5183074000	470 Ω
R616	5183100000	5.6k Ω
R617	5240170600	10k Ω
R618, R619	5183062000	1k Ω
R720	5183106000	10k Ω
R721	5240168200	1k Ω
CAPACITORS		
C501	5172973800	Elec 1000 μ F 50V
C502, C503	5173055800	Elec 220 μ F 25V
C504	5172978800	Elec 2200 μ F 25V
C505	5173045800	Elec 100 μ F 16V
C506	5173054800	Elec 220 μ F 16V
C507	5173036800	Elec 47 μ F 16V
C508	5172943800	Elec 220 μ F 16V
C509, C510	5173073800	Elec 470 μ F 25V
C511, C512	5170425800	Mylar 0.01 μ F 100V 5%
C518	5173036800	Elec 47 μ F 16V
C519, C520	5172792000	Polyst, 33pF 50V 5%
C521	5173395000	Ceramic 0.047 μ F 50V 10%
C522	5173010800	Elec 10 μ F 16V
C523~C525	5170409800	Mylar 0.0022 μ F 100V 5%
C526	5172336000	Ceramic 0.01 μ F 50V 10%
MISCELLANEOUS		
L501	5286002100	Choke coil 1.5mH
	5033291000	Plate, Insul. (4 used)
	5033295000	Tube, Insul. (4 used)
	5800042401	Bracket, PCB; A
	5800042501	Bracket, PCB; B

REMOTE CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200008900	PCB Assy
	5210008900	PCB
D951~D955	5143118000	Diode, 1S2473HJ
R951~R953	5183084000	Resistor, Carbon 1.2k Ω $\frac{1}{4}$ W 5%
C951~C957	5172324000	Capacitor, Ceramic 0.001 μ F 50V 10%
	5122336000	Connector Socket, 12P
	5534866000	Escutcheon, Connector
	5555566000	Bracket, Connector

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TIMER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200008800	PCB Assy
	5210008800	PCB
Q970	5145151000	Transistor, 2SC1815GR
D550, D551	5042517000	Diode, 1S2473VE
C550	5173571800	Capacitor, Elec 10 μ F 16V
R650, R651	5240170600	Resistor, Carbon 10k Ω 1/4W 5%
R652	5240173000	Resistor, Carbon 100k Ω 1/4W 5%
	5133019000	Switch, Rotary; DP3T

COUNTER PCB ASSY (PC Board Omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200009300	PCB Assy
	5210009300	PCB
S5, S6	5225005300	LED SL1405
	6051083000	Switch, Tact

JOINT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5200005800	PCB Assy
	5210005800	PCB
D1, D2	5143116000	Diode, 1SR34-200VL
C1, C2	5173019800	Capacitor, Elec 22 μ F 25V
	5122149000	Connector Plug, 6P
	5122153000	Connector Plug, 10P

**VOLTAGE SELECTOR PCB ASSY [GE, L]
(PC Board Omitted)**

REF. NO.	PARTS NO.	DESCRIPTION
	5168548100	PCB Assy
	5167548101	PCB
	5555062000	Bracket A, Voltage Selector

VOLUME PCB ASSY (PC Board Omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200009200	PCB Assy
	5210009200	PCB
R15, R25	5282057000	Var Res. 100k Ω (B) x 2

FUSE PCB ASSY [E, UK] (PC Board Omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5200006000	PCB Assy
	5210006000	PCB
F1	5142087000	Holder, Fuse (6 used)
F2, F3	△ 5142183000	Fuse, T315mA 250V
	△ 5041140000	Fuse, T1A 250V

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