

TC-V77FR

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Gratis schema's

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AEP Model
Canadian Model
E Model

SERVICE MANUAL



SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

Approx. 120 sec. (with C-60 cassette)

Bias frequency

105 kHz

Signal-to-noise ratio (NAB, at peak level)

Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)		58 dB	65 dB	71 dB
TYPE II (Sony UCX)		57 dB	64 dB	70 dB
TYPE I (Sony HF-S)		54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METALLIC cassette)

Frequency response

DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 13,000 Hz (± 3 dB, 0 VU recording)
30 - 15,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 15,000 Hz (DIN)
- With TYPE I cassette (Sony HF-S)
20 - 15,000 Hz
30 - 14,000 Hz (DIN)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Wow and flutter 0.06% WRMS (NAB)
 $\pm 0.2\%$ (DIN)

Inputs

Line inputs (phono jacks)
Sensitivity 77.5 mV (-20 dB)
Input impedance 50 k ohms

Outputs

Line outputs (phono jacks)
Rated output level 0.44 V (-5 dB) at load
impedance 50 k ohms
Load impedance over 10 k ohms

General

Power requirements

AEP model: 220 V ac, 50/60 Hz
Canadian model: 120 V ac, 60 Hz
E model: 120, 220 or 240 V ac adjustable,
50/60 Hz

Power consumption

AEP, E model: 20 watts
Canadian model: 19 watts

Dimensions

Approx. 355 x 80 x 245 mm (w/h/d)
(14 x 3 $\frac{5}{32}$ x 9 $\frac{21}{32}$ inches)

Weight

including projecting parts and controls
Approx. 4.6 kg (10 lbs 3 oz)

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

STEREO CASSETTE DECK
SONY®



FEATURES

- Auto-reverse recording and playback with rotobilateral record/playback head.
- Blank spaces at least 10 seconds long can be skipped with the blank skip function.
- With the music scan function, the beginning of each selection is played back in sequence.
- With the  /  DIRECTION MODE key engaged, both sides of the cassette can be played back five times in succession.
- Direct function* and remote control operation with the optional Sony ST-V77/V77L system control tuner.
- Synchronized operation with the optional Sony PS-FL770 or PS-LX550 turntable system.
- The C-type Dolby NR system reduces tape noise twice as effectively as the conventional B-type system.
- The AMS (Automatic Music Sensor) allows you to locate the desired selection easily.
- The automatic tape select system adjusts the cassette deck to achieve the optimum recording and playback characteristics for each tape type.
- The digital linear counter indicates the elapsed or remaining recording or playback time in minutes and seconds. The pre-end winker warns that the tape is about to run out during recording.
- The deck can be turned on and off using an optional timer.

*With the direct function, pressing any function key automatically changes the program in use. For example, if you want to switch to a taped program when you are listening to an FM broadcast, all you have to do is to press the  or  key. The function automatically changes to TAPE and tape playback starts.

PRE-END REVERSE FUNCTION

When the PRE-END REVERSE key is pressed (PER indicator illuminates), the deck detects a pause of 1.8 seconds or more in the program source during recording, or a blank space of 1.5 seconds or more on a recorded tape during playback when the tape approaches the end. The detection begins 2 to 3 minutes before the end of the tape for a C-60 cassette. The head reverses position automatically when such a pause or blank is detected, and recording or playback on the other side of the cassette begins.

If no pause is detected during recording up to the point where the remaining recording time is about one minute, the deck automatically makes a 1.8-second blank space in record muting mode, then reverses the head.

This function operates only in the direction from the upper side to the lower side.

To cancel the pre-end reverse function

Press to release the PRE-END REVERSE key so that the PER indicator goes off.

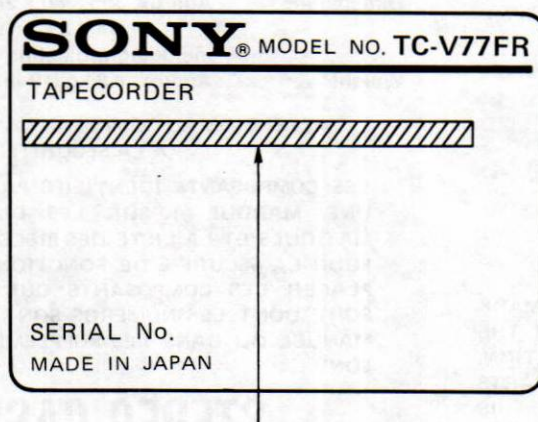
The head reverses the position at the very end of the tape.

Notes

- When the PRE-END REVERSE key is pressed, the available recording time on both sides of a cassette is 54 to 58 minutes for a C-60 cassette, and 80 to 86 minutes for a C-90 cassette.
- The pre-end reverse function does not operate when using a cassette whose hubs are very thick.
- The pre-end reverse function may malfunction with a selection fading in or fading out.
- Play back the cassettes recorded on another tape deck without the pre-end reverse function. Otherwise, the last selection on the side of the cassette may not be played back.

MODEL IDENTIFICATION

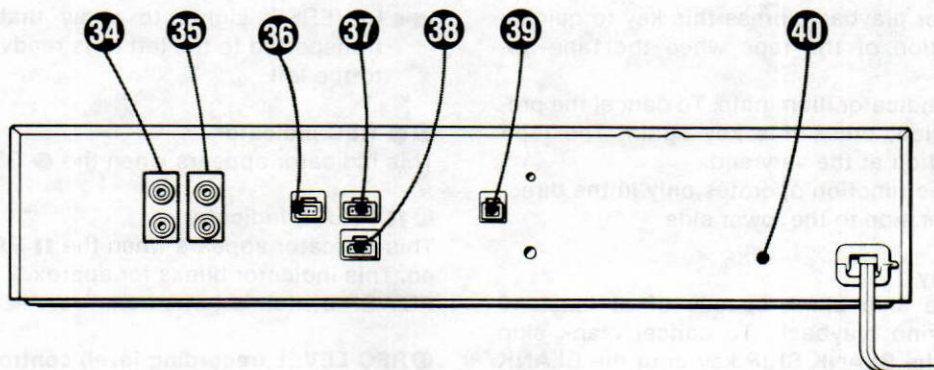
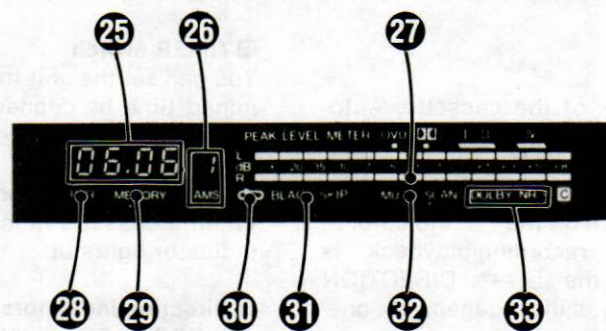
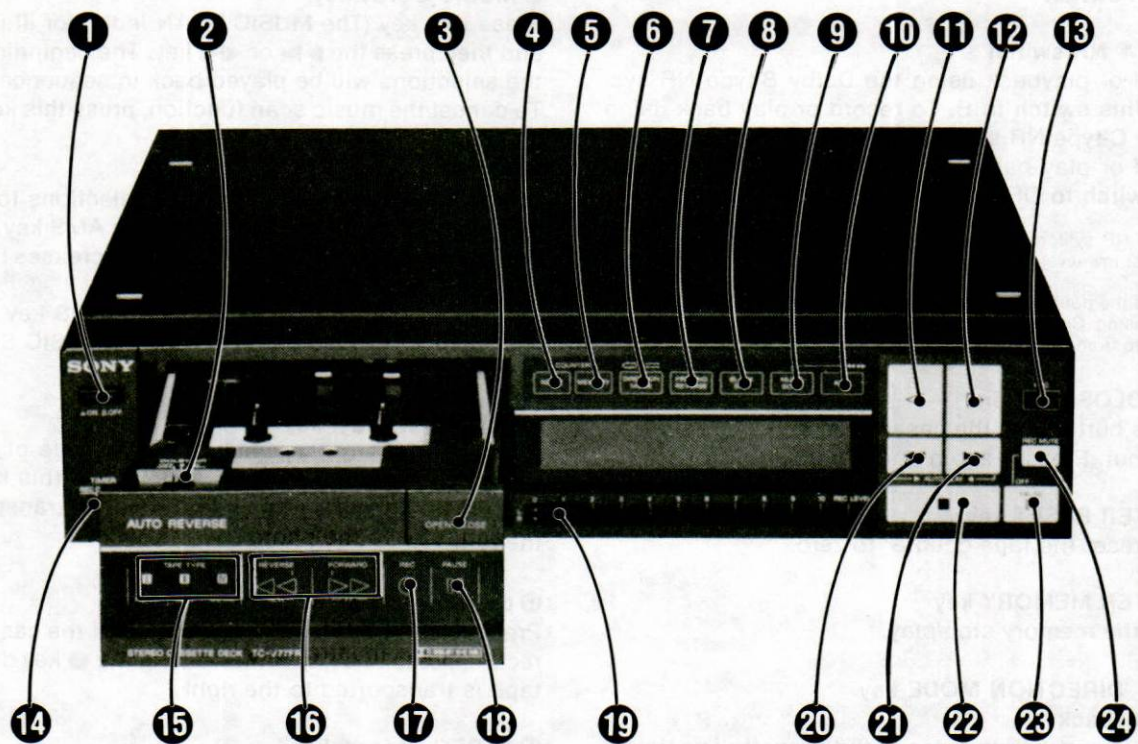
— Specification Label —



Canadian model: AC 120 V 60 Hz 19 W

AEP, G-AEP model: 220 V ~ 50/60 Hz 20 W

E model: 120, 220, 240 V ~ 50/60 Hz 20 W



FUNCTION OF CONTROLS

① POWER switch

② DOLBY* NR switch

To record or playback using the Dolby B-type NR system, set this switch to B. To record or play back using the Dolby C-type NR system, set the switch to C.

To record or play back without the Dolby NR process, set the switch to OFF.

*The Dolby NR system reduces tape hiss and improves the signal-to-noise ratio at low-level high-frequency signals.

"Dolby" and the double-D symbol are trade marks of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

③ OPEN/CLOSE button

Press this button and the cassette module automatically slides out. Press it again and the module closes.

④ COUNTER RESET key

Press to reset the tape counter to zero.

⑤ COUNTER MEMORY key

Used for the memory stop/play.

⑥ / DIRECTION MODE key

During playback

Press to play back both sides of the cassette five times. When playback is started from the lower side, the tape will stop at the end of the 5th playback of the lower side so the upper side will have been played back only four times.

Press again to disengage.

During recording

Press to record on both sides of the cassette. Auto-reverse recording operates only from the upper side to the lower side.

When the power switch is turned on the  indicator illuminates and auto-reverse recording/playback is engaged. To disengage, press the  /  DIRECTION MODE key again. When the key is disengaged,  one-direction playback/recording is possible.

⑦ PRE-END REVERSE key

During recording or playback, press this key to quickly reverse the direction of the tape when the tape approaches the end.

The PER and  indicator illuminate. To cancel the pre-end reverse function, press this key again. The tape reverses the direction at the very end.

The pre-end reverse function operates only in the direction from the upper side to the lower side.

⑧ BLANK SKIP key

Press this key to skip blank spaces of at least 10 seconds long during playback. To cancel blank skip operation, press the BLANK SKIP key until the BLANK SKIP indicator goes out.

⑨ MUSIC SCAN key

Press this key (The MUSIC SCAN indicator illuminates) and then press the  or  key. The beginnings of all the selections will be played back in sequence.

To cancel the music scan function, press this key again.

⑩ AMS key

Use this key to set the number of selections to be skipped in AMS operation. Every time the AMS key is pressed, the number of the AMS indicator increases by 1 up to 9, then goes off.

To cancel AMS operation, press the AMS key until the AMS indicator goes out or press the MUSIC SCAN key twice.

⑪ (reverse play) key

Press this key to play back the lower side of the cassette. To record on the lower side, press this key while holding the  key down. The tape will be transported to the left.

⑫ (forward) key

Press this key to play the upper side of the cassette. To record, press this key while holding the  key down. The tape is transported to the right.

⑬ REC (record) key

Press this key together with the  or  key to start recording. When this key is pressed for recording level adjustment, the deck will detect the tab of the cassette.

⑭ TIMER switch

You can set the unit to record or play back at a predetermined time by connecting any commercially available timer.

⑮ TAPE type indicator

When a cassette is inserted, the appropriate tape type indicator lights up.

⑯ Direction indicators

 FORWARD: Lights to show that the cassette is transported to the right or is ready to be transported to the right.

 REVERSE: Lights to show that the cassette is transported to the left or is ready to be transported to the left.

⑰ REC indicator

This indicator appears when the  REC key is pressed.

⑱ PAUSE indicator

This indicator appears when the  PAUSE key is pressed. This indicator blinks for approx. 2 seconds when the POWER switch is turned on.

⑲ REC LEVEL (recording level) controls

These controls adjust the recording level.

20 ◀◀ (fast-reverse) key

Press this key to advance the tape rapidly to the left. It is also used for the auto play, AMS and music scan functions.

21 ▶▶ (fast-forward) key

Press this key to advance the tape rapidly to the right. It is also used for the auto play, AMS and music scan functions.

22 ■ (stop) key

Press this key to stop the tape, or to disengage the ● key.

23 || PAUSE key

Press this key to stop the tape running for a moment during recording or playback.

24 ○ REC MUTE (record muting) key

Press this key to eliminate unwanted material and to insert a blank space during recording.

Display section**25 Digital linear counter**

Indicates the tape running time.

26 AMS indicator

This indicator appears when the AMS key is pressed. The figure shows how many selections will be skipped with the AMS system.

27 Peak level meters

These meters show the peak input level of each channel during recording, and recorded levels in the playback mode.

28 PER indicator

This indicator appears when the PRE-END REVERSE key is pressed and pre-end reverse function is engaged.

29 MEMORY indicator

When the MEMORY key is pressed, this indicator shows that the memory counter function is engaged.

30 ↺ indicator

This indicator appears when the ↺ / ↻ DIRECTION MODE key or the PRE-END-REVERSE key is pressed and cycle play function is engaged.

31 BLANK SKIP indicator

This indicator appears when the BLANK SKIP key is pressed and blank skip operation is engaged.

32 MUSIC SCAN indicator

This indicator appears when the MUSIC SCAN key is pressed and music scan function is engaged.

33 Dolby NR indicator

The selected Dolby NR B or C type is indicated here.

Rear panel**34 LINE OUT (line outputs) jacks (phono jack)**

Accepts tape inputs from an amplifier for playing back a tape and line inputs from another tape deck for dubbing a tape onto that unit.

35 LINE IN (line inputs) jacks (phono jack)

Accepts tape outputs from an amplifier for tape recording and line outputs from another tape deck when dubbing a tape from that unit.

36 SYNCHRO remote control connector (3-pin)

Connect the remote control cord supplied with the Sony PS-FL770 or PS-LX550 turntable system to synchronize the operation of the TC-V77FR with the turntable system.

37 R remote input connector (4-pin)

Use this connector for remote control operation of the total audio system. For details, refer to the Operating Instructions of the optional Sony ST-V77/V77L system control tuner.

38 R remote output connector (4-pin)

Use this connector for remote control operation of the total audio system. For details, refer to the Operating Instructions of the optional Sony ST-V77/V77L system control tuner.

39 Function control connector

For connecting to the TAPE RECORDER direct function connector of the optional Sony ST-V77/V77L system control tuner for direct function.

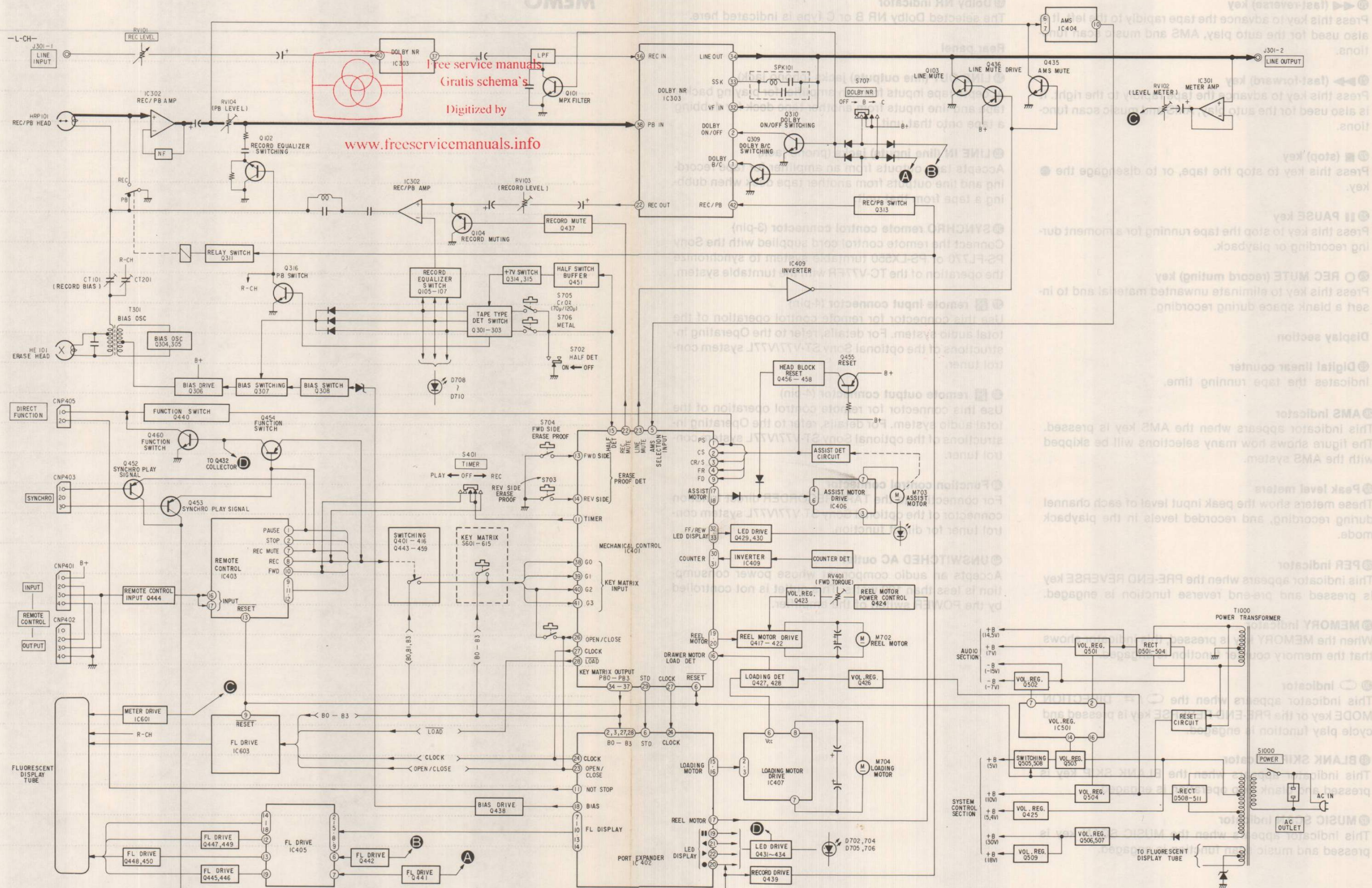
40 UNSWITCHED AC outlet

Accepts an audio component whose power consumption is less than 100 watts. This outlet is not controlled by the POWER switch of the amplifier.

MEMO

SECTION 1

BLOCK DIAGRAM



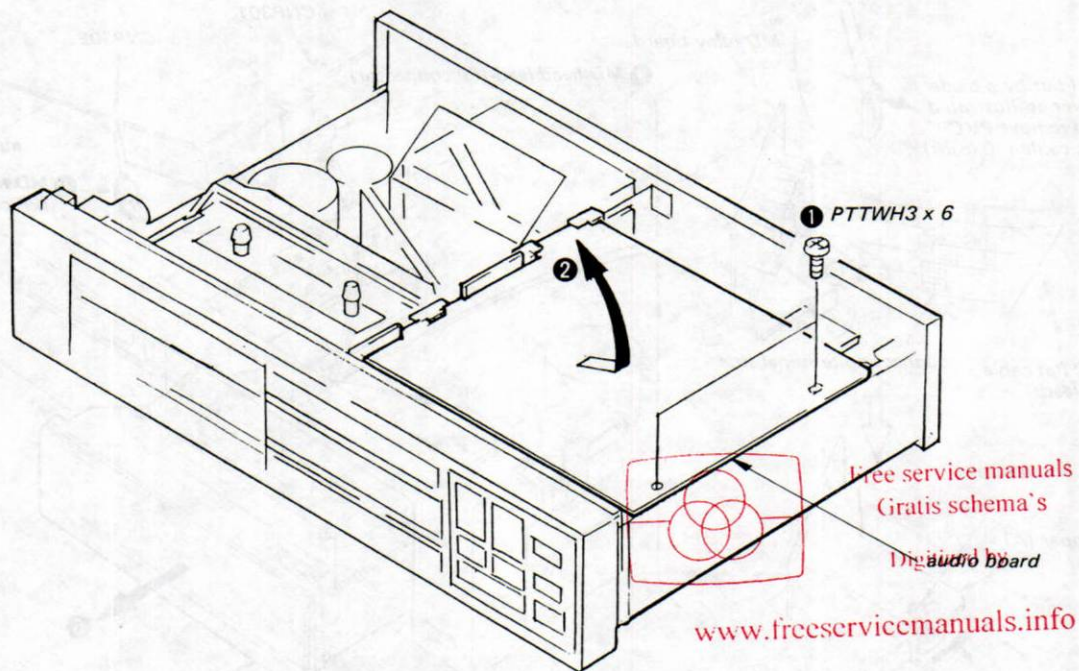
R-CH IS OMITTED : SAME AS L-CH

SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

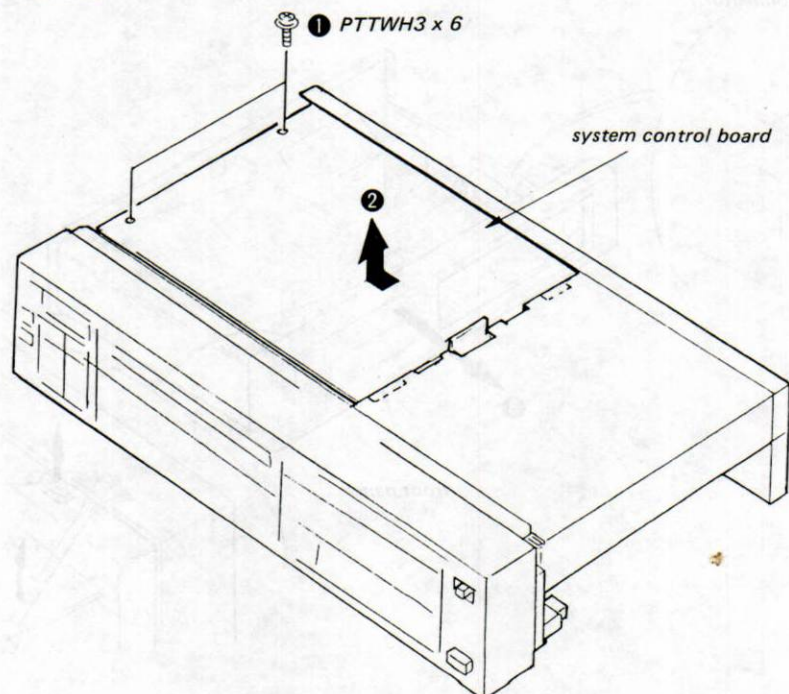
- Remove the case.
(4 case retaining screws with claw.)

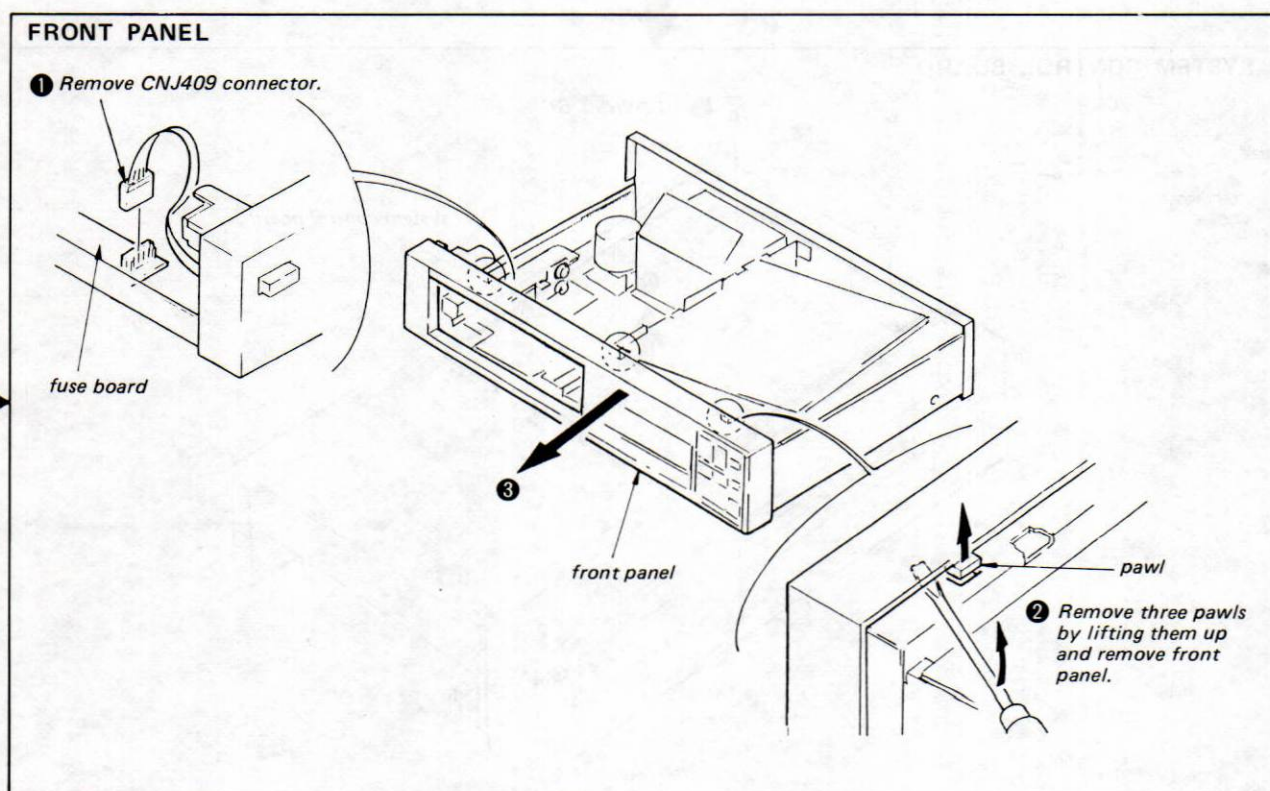
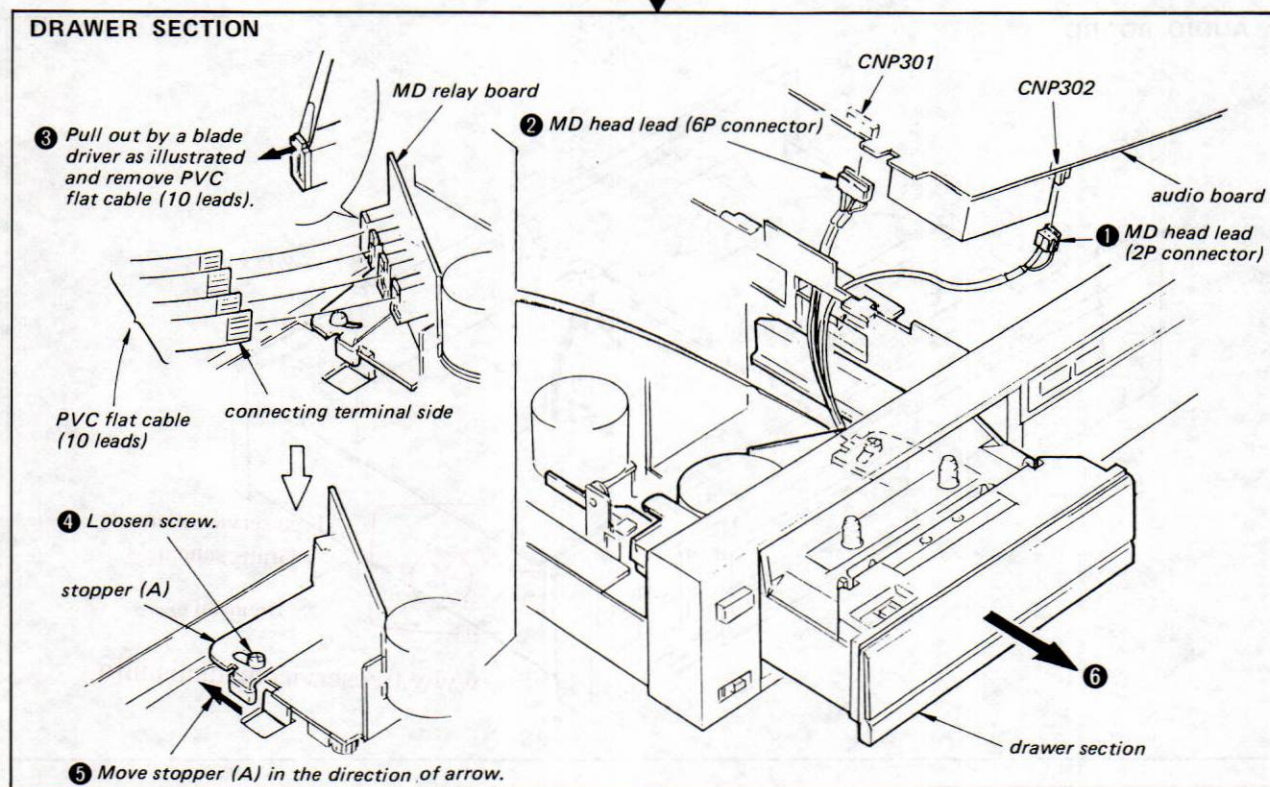
AUDIO BOARD

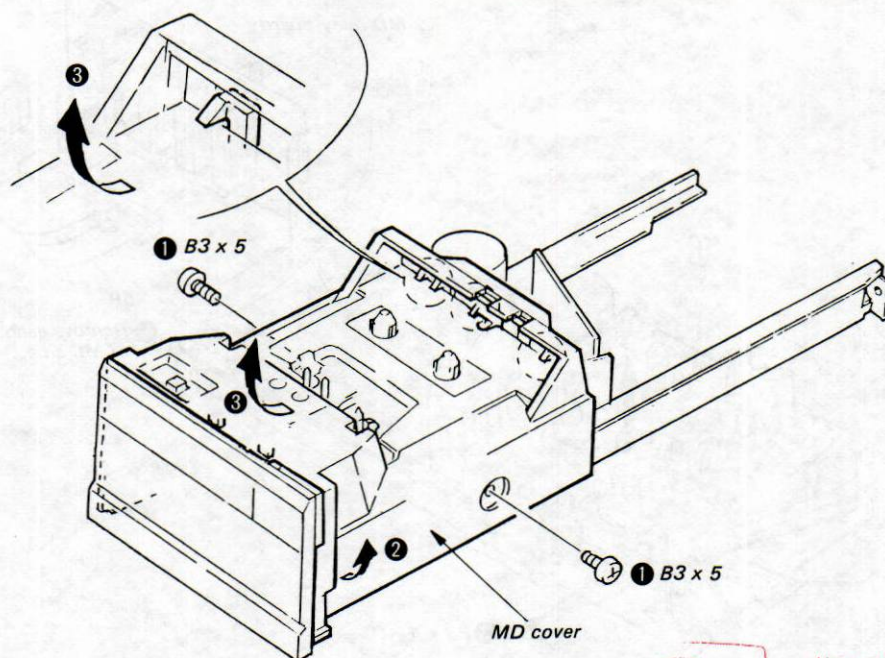


- Remove the bottom plate.
(+BVTT3 x 6 6 screws.)

SYSTEM CONTROL BOARD



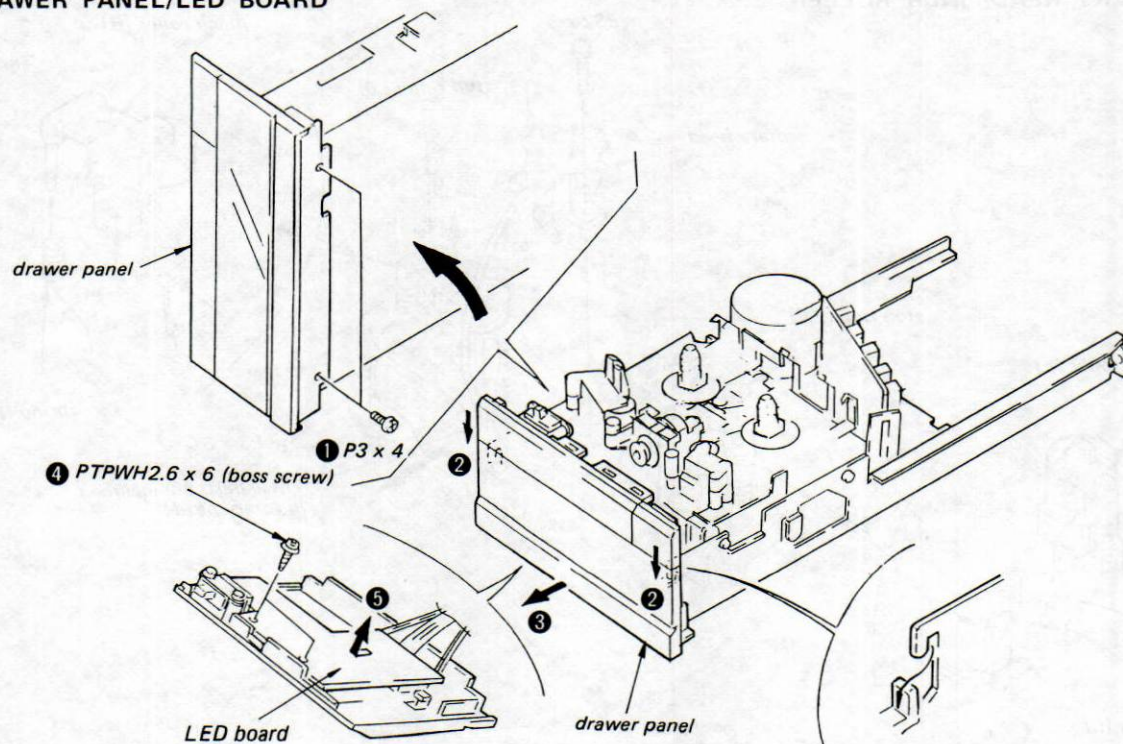


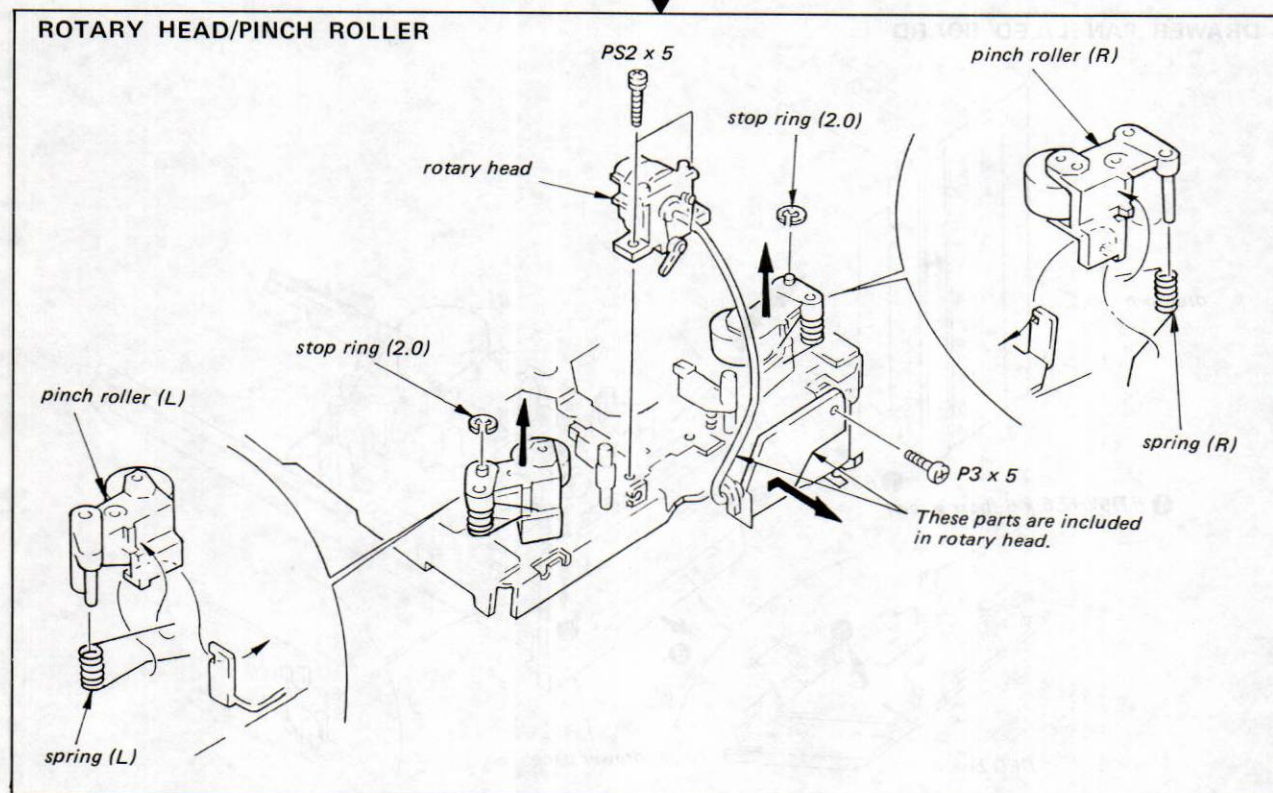
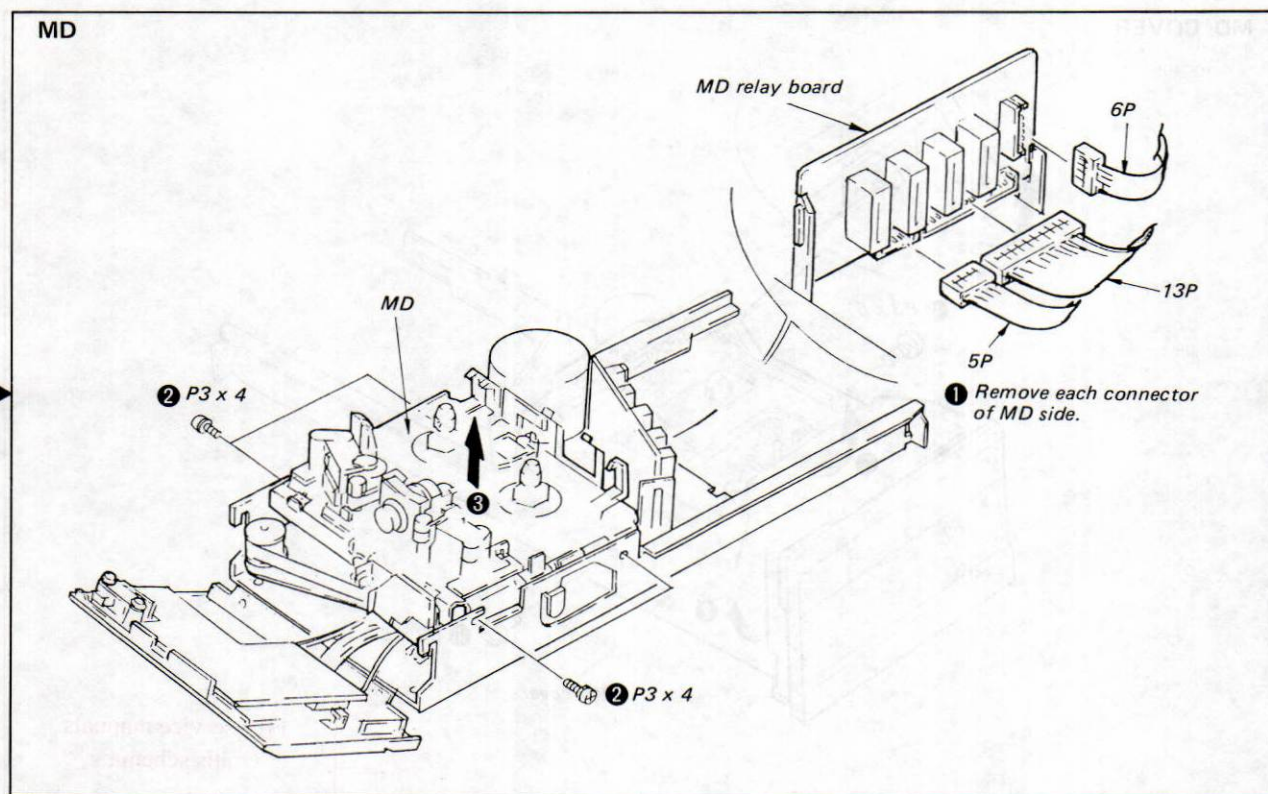
MD COVER

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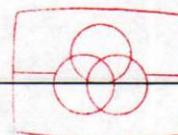
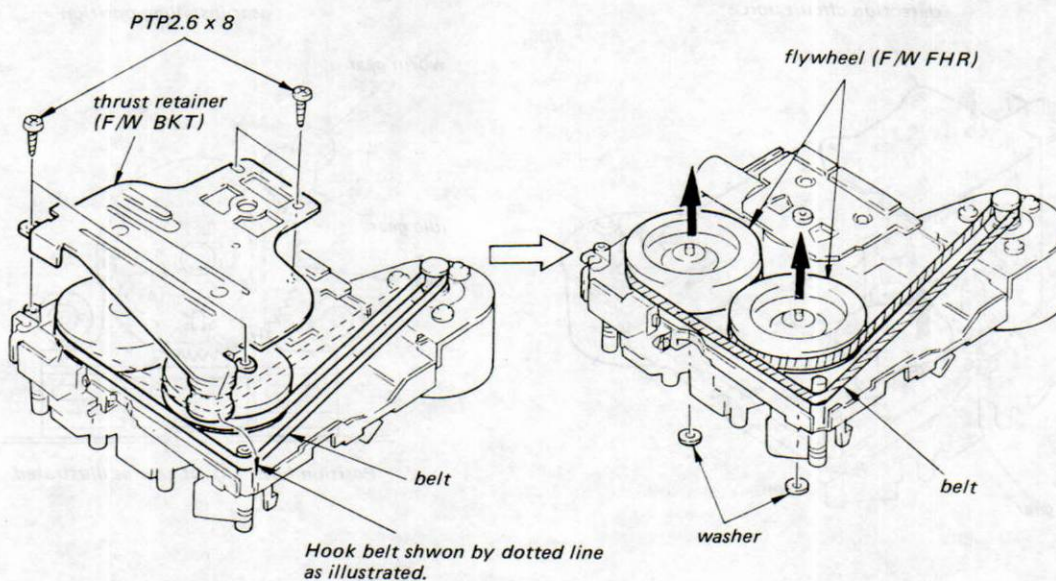
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DRAWER PANEL/LED BOARD



THRUST RETAINER (F/W BKT)

FLYWHEEL (F/W FHR)/BELT

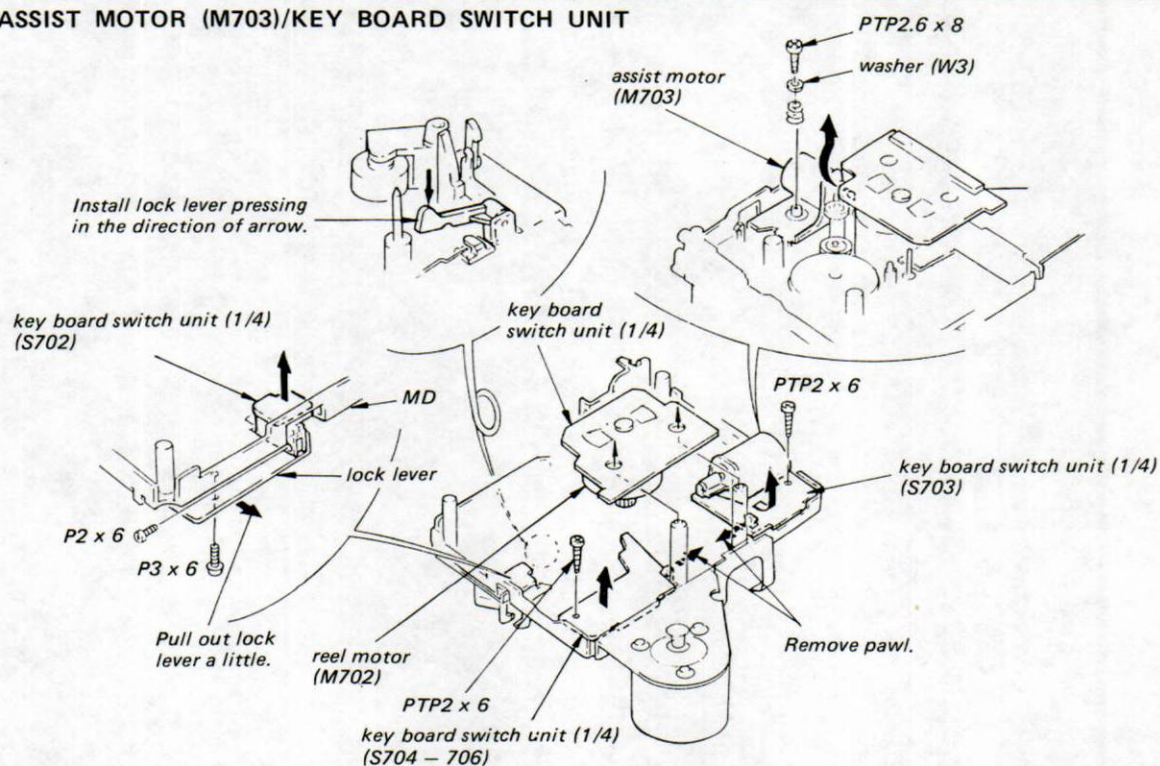


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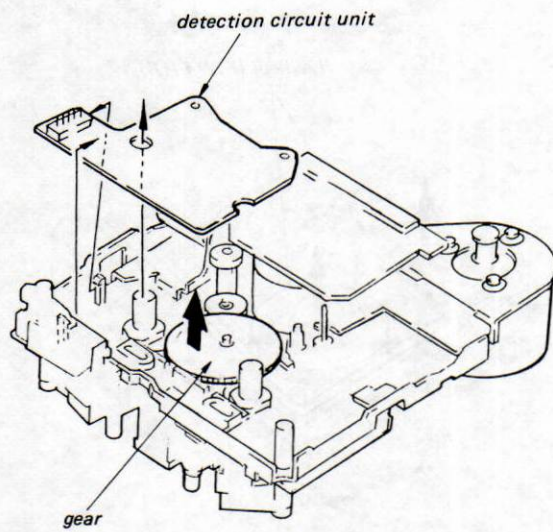
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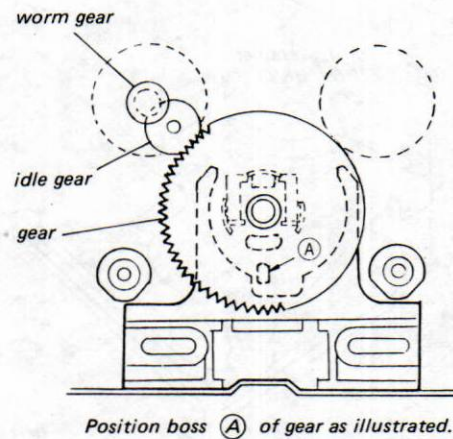
ASSIST MOTOR (M703)/KEY BOARD SWITCH UNIT



DETECTION CIRCUIT UNIT/GEAR

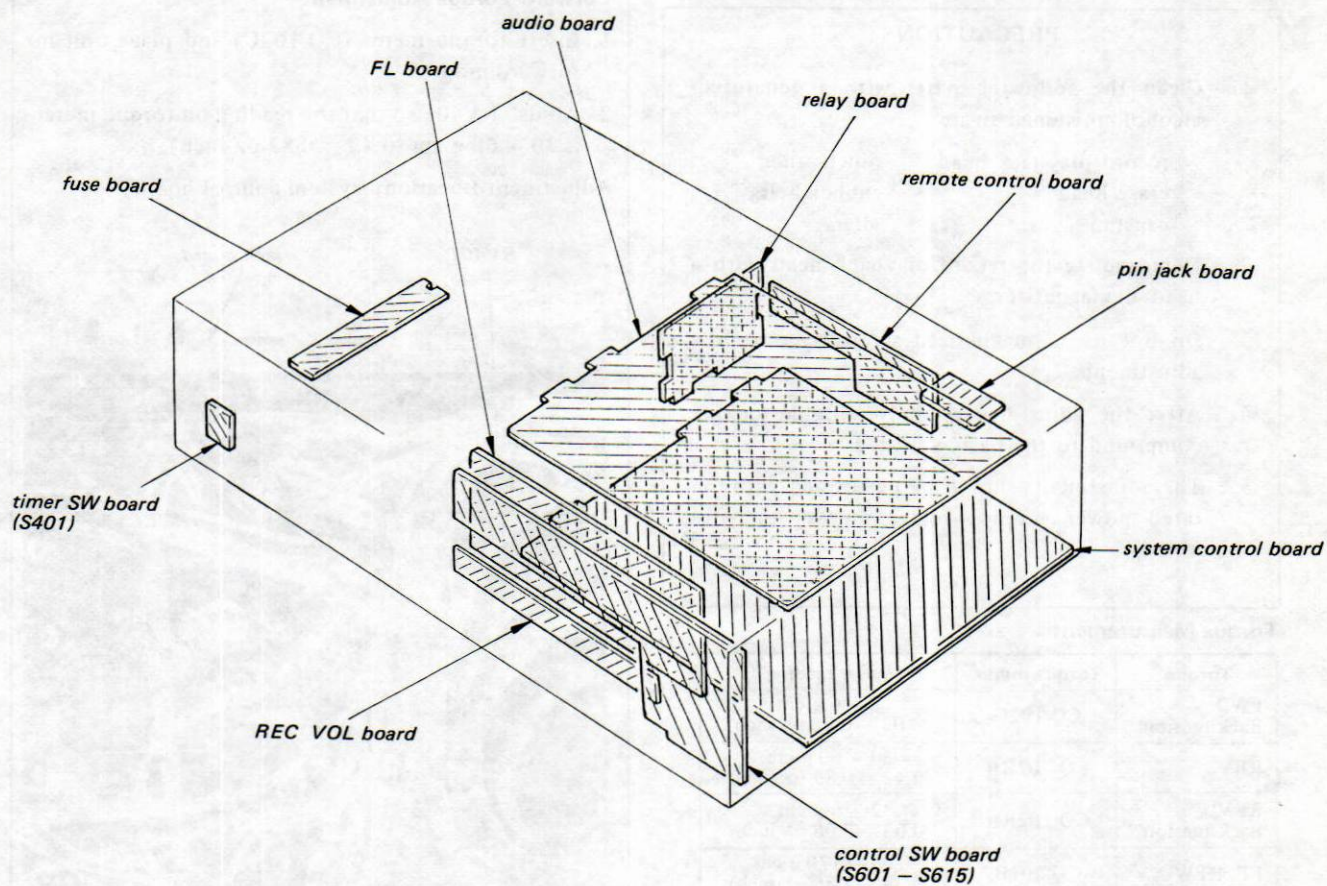


gear installing position

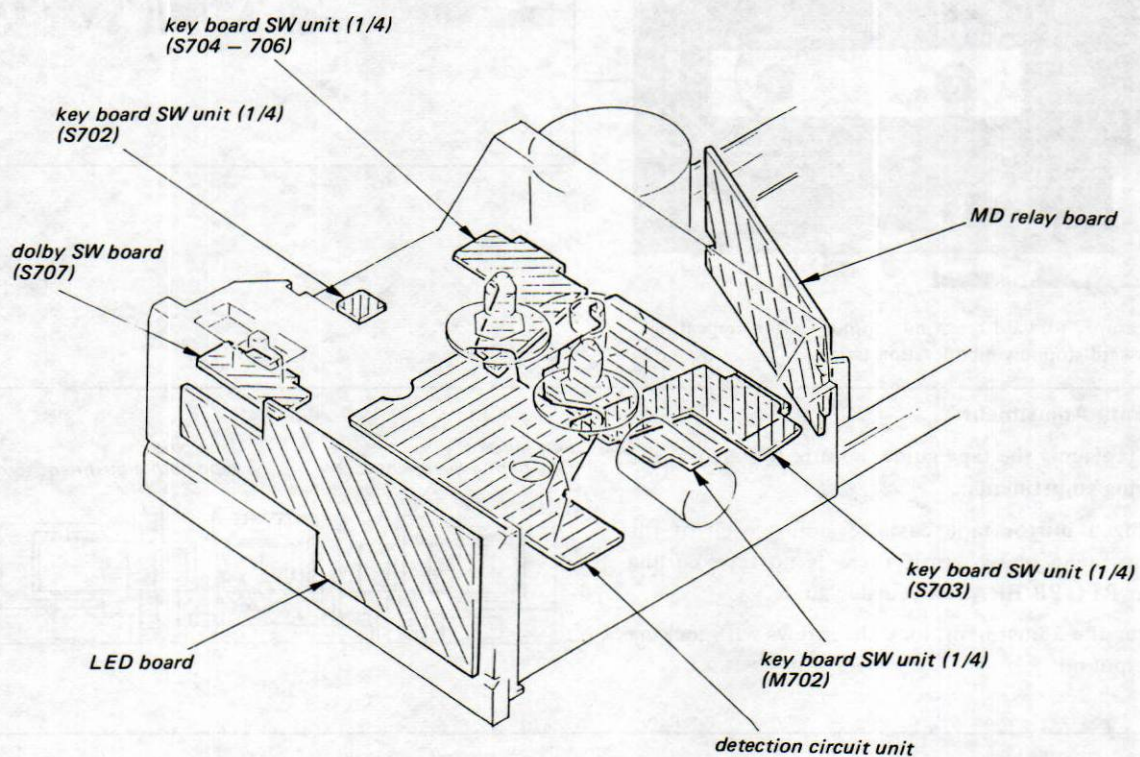


Position boss (A) of gear as illustrated.

PC BOARDS LAYOUTS



MECHANICAL SECTION



SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

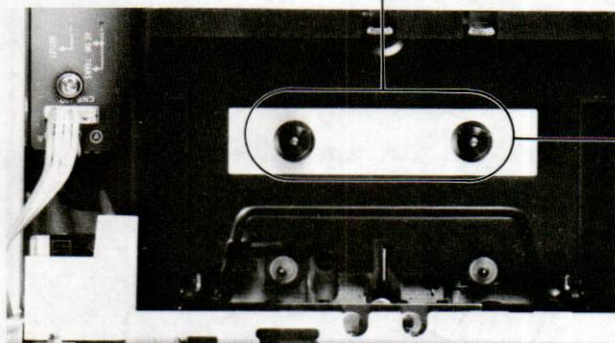
PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD Back tension	CQ-102C	2 – 6 g·cm (0.03 – 0.08 oz·inch)
REV Back tension	CQ-102RB	30 – 60 g·cm (0.42 – 0.83 oz·inch)
REV Back tension	CQ-102RB	2 – 6 g·cm (0.03 – 0.08 oz·inch)
FF, REW	CQ-201B	100 – 170 g·cm (1.39 – 2.36 oz·inch)

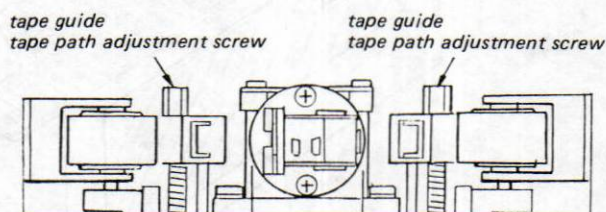


Note: Measure forward, rewind torque after repeating forward-stop-rewind operation twice.

Tape Path Adjustment

When replacing the tape guide, be sure to perform the following adjustments.

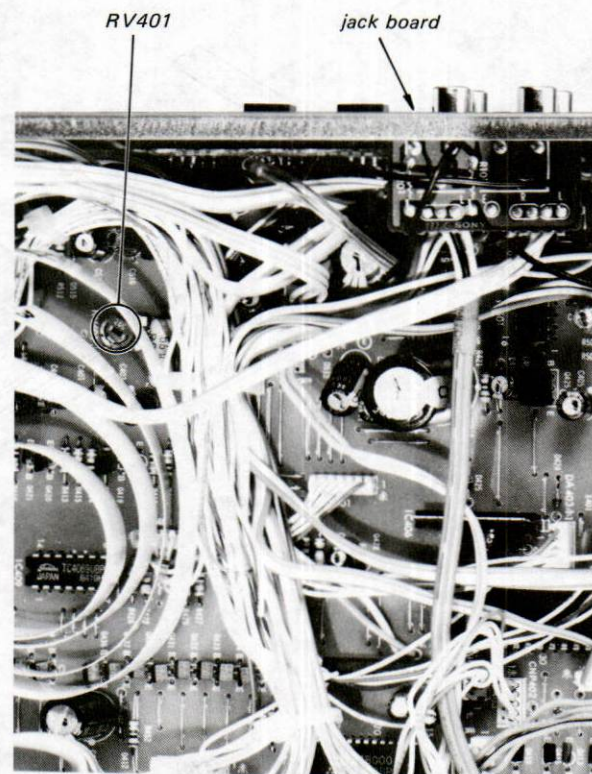
- Using a mirror tape cassette, adjust each of the adjustment screws until there is no tape curling near REC-PB/ERASE head side guide.
- After the adjustment, lock the screws with locking compound.



Forward Torque Adjustment

- Insert torque meter (CQ-102C) and place unit in forward mode.
- Adjust RV401 so that the reading on torque meter is 30 – 60 g·cm (0.42 – 0.83 oz·inch).

Adjustment Location: system control board



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE SELECT switches according to the tape as follows.

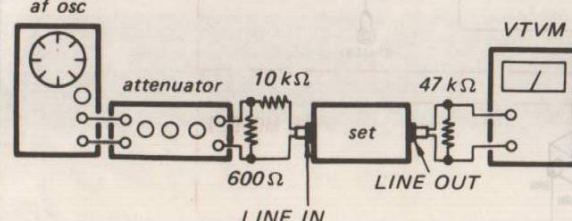
Tape	TAPE SELECT switch
CS-15	AUTO
CS-26	AUTO
CS-30	TYPE III (IV)
CS-40	TYPE III (IV)

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:	OFF
TAPE SELECT switch:	AUTO
TIMER switch:	OFF

- Standard Record:
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

— Record Mode —



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (−10 dB)

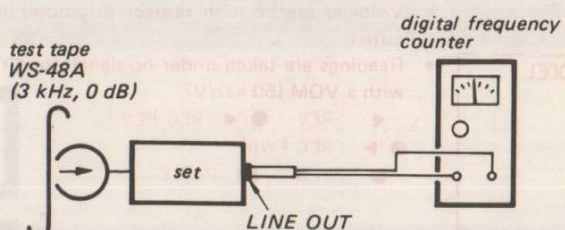
Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (−5 dB)

Tape Speed Adjustment

Procedure:

- Mode: forward playback



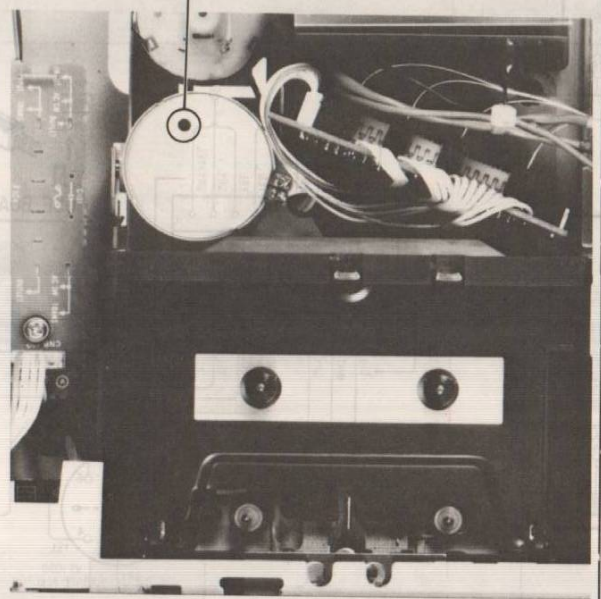
Play back the beginning of tape in forward mode, and adjust the adjustable resistor that built in motor for 2,995 – 3,025 Hz reading on the frequency counter.

- Play back at the tape position in the step 1 in reverse mode. Confirm that the frequency counter reading is 2,995 – 3,025 Hz at that time.

- Play back the beginning of opposite side of the tape in forward and reverse mode. Confirm that the frequency counter reading is 2,995 – 3,025 Hz at that time.

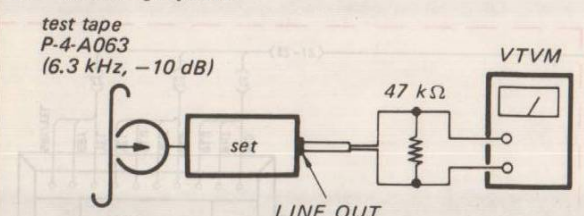
Adjustment Location: Motor (M701)

Built-in adjustable resistor
(Adjust the speed by using screwdriver.
When turning the screw clockwise,
speed is faster.)

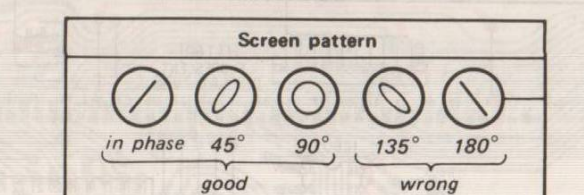
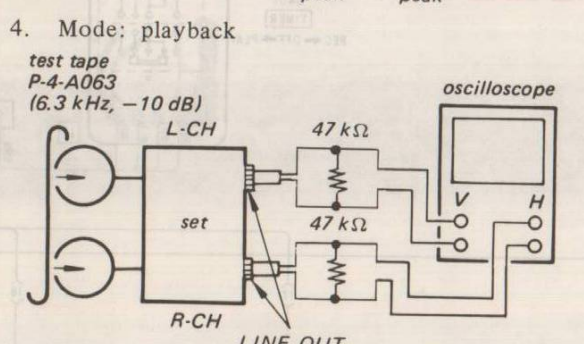
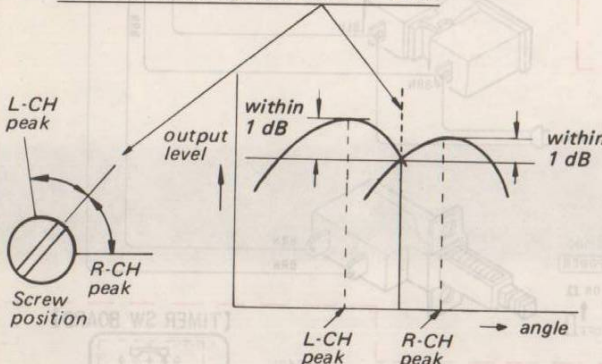
Forward Record/playback } Head Azimuth Adjustment
Reverse Record/playback }

Procedure:

- Forward playback
- Mode: playback



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



- After the adjustment, lock the screws with locking compound.

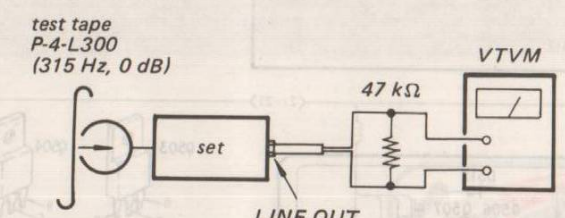
- Reverse playback.

- Perform step 2 – 5 similarly.

Playback Level Adjustment

Procedure:

- Mode: forward playback



Adjust the RV104 (L-CH) and RV204 (R-CH) so that the specification is met.

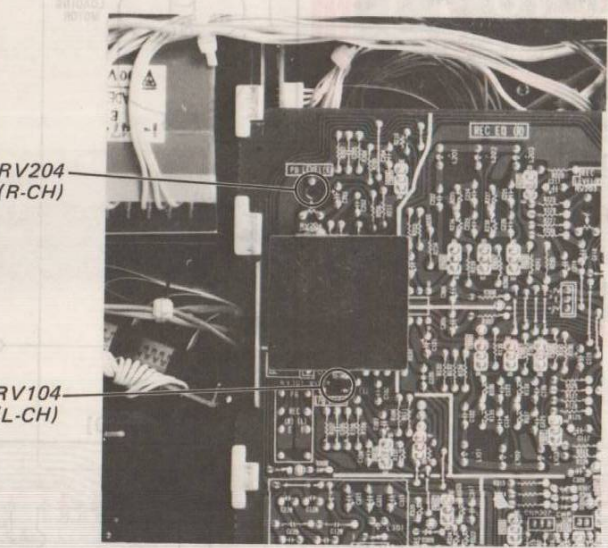
Specification:

LINE OUT level: 0.41 to 0.46 V
(−5.5 to −4.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio board



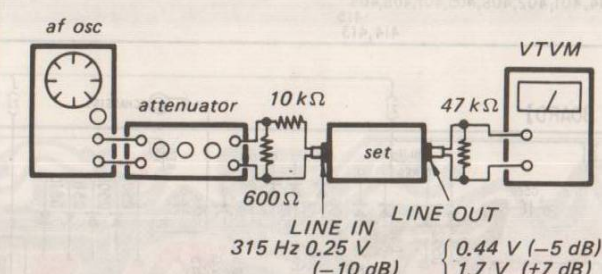
Adjustment Location:



Level Meter Calibration

Procedure:

- Mode: record



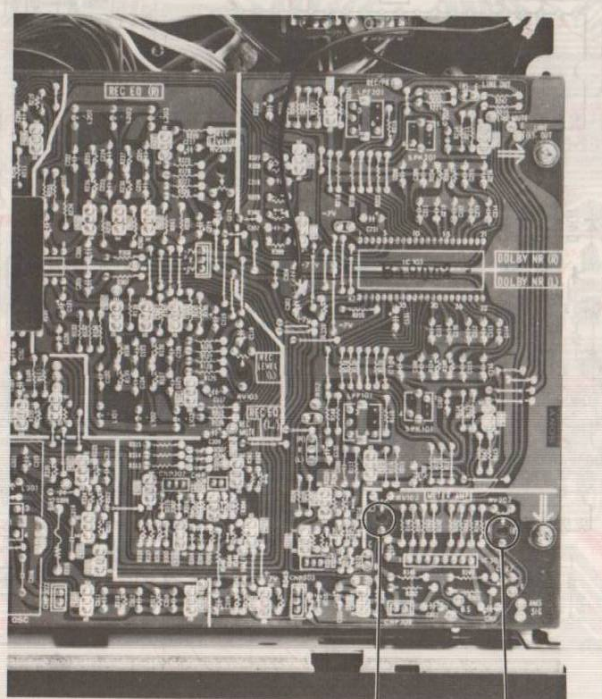
- Set the REC LEVEL control so that the LINE OUT level is 0.44 V (−5 dB).

- Adjust RV102 (L-CH), RV202 (R-CH) so that the 8th segment from leftside of the level meter goes on and again turn it slowly in the reverse direction until the segment just goes off.

Note: The adjustment should be made while decreasing the level.

- Set the REC LEVEL control so that the LINE OUT level is 1.7 V (+7 dB). Make sure that all the lights in the segments go on.

Adjustment Location: audio board



RV102 (L-CH)
RV202 (R-CH)

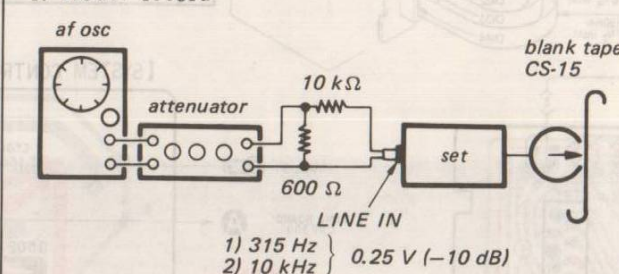
Record Bias Adjustment

Setting:

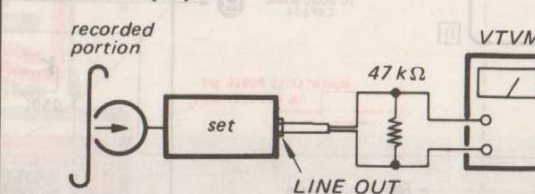
REC LEVEL control: standard record (See page 17.)

Procedure:

- Mode: record

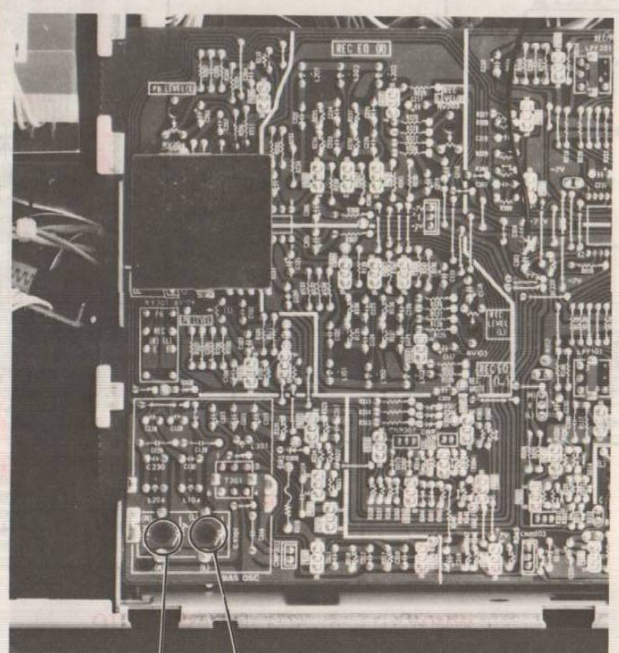


- Mode: playback



Confirm that the 10 kHz playback output is 0 dB relative to the 315 Hz output. If necessary, adjust CT101 (L-CH), CT201 (R-CH) and repeat the steps given above.

Adjustment Location: audio board



CT201 (R-CH)
CT101 (L-CH)

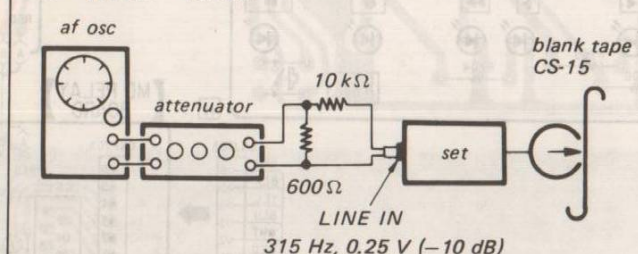
Record Level Adjustment

Setting:

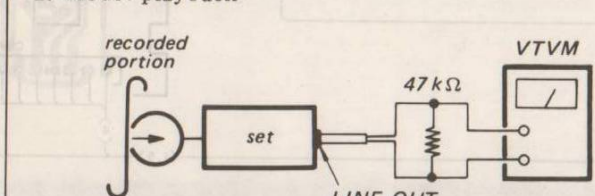
REC LEVEL control: standard record (See page 17.)

Procedure:

- Mode: record



- Mode: playback

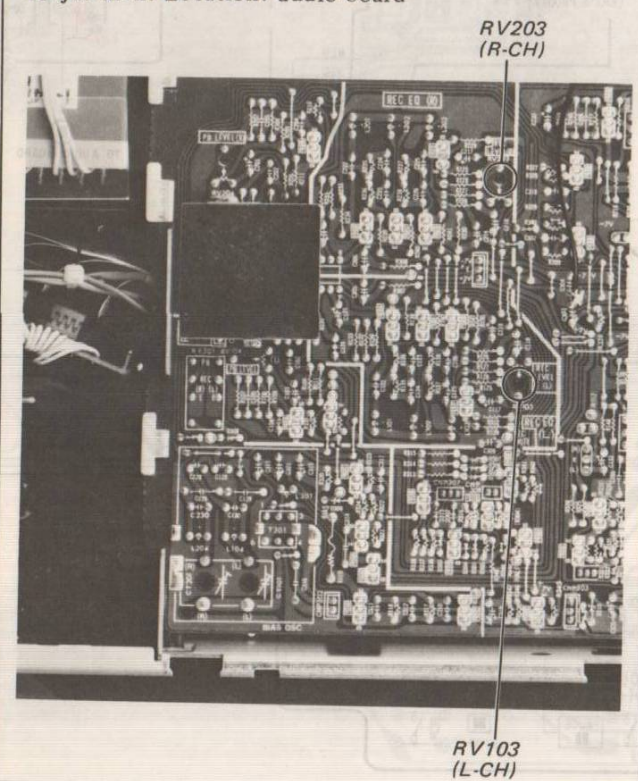


- Play back the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV103 (L-CH), RV203 (R-CH) and repeat the step 1-3.

Specification:

LINE OUT level: 0.41–0.46 V
(−5.5 to −4.5 dB)

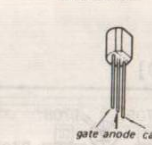
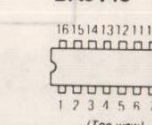
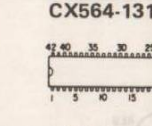
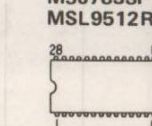
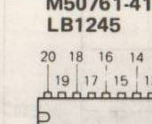
Adjustment Location: audio board



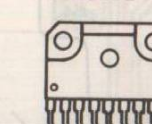
RV203 (R-CH)
RV103 (L-CH)

Semiconductor Lead Layouts

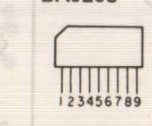
M5218L

CX10032A
CX10034
CX10035
BA6146CX20187
CX564-131M50783SP
MSL9512RSM50761-412P
LB1245

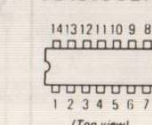
M54543L



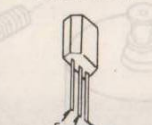
BA6208



TC4069UBP

2SC2603F
DTA114ES
DTC124XS
DTA124ES
DTC124ES2SD1020
2SC2785

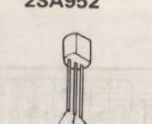
2SA1027R



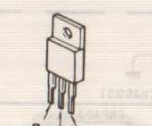
2SD774



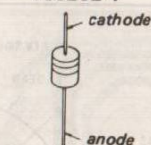
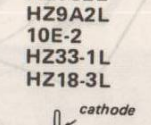
2SA952

2SD809
2SB548-R

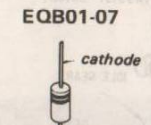
2SD1406



1SS202-1

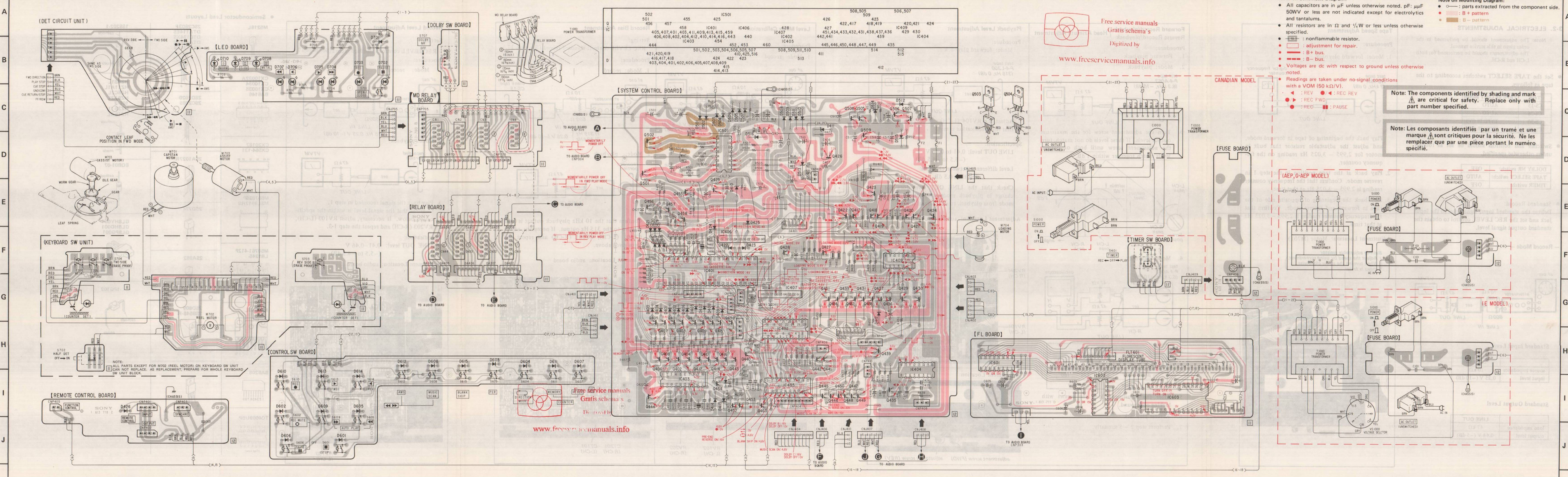
HZ6B1L
HZ11A1L
HZ6C2L
HZ2A2L
10E-2
HZ33-1L
HZ18-3L

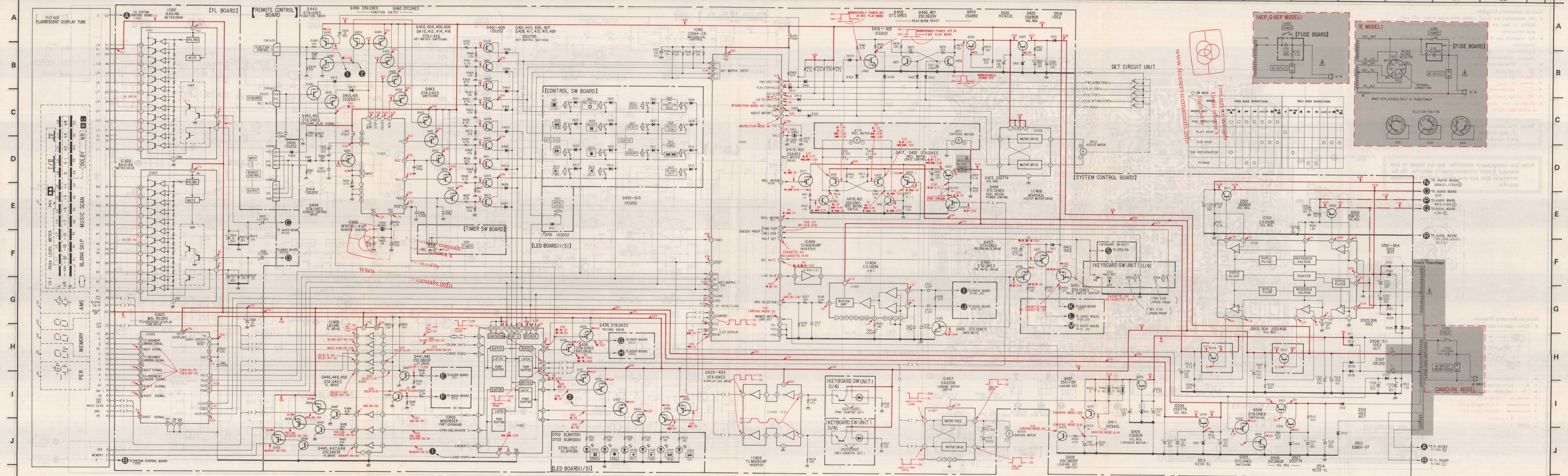
EQB01-07

GL8HY001
GL8HD001
GL8PG001

GL-1PG102







Note on Schematic Diagram:

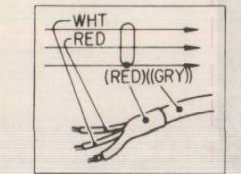
- All capacitors are in μF unless otherwise noted, pF : $\mu\text{M}\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from
 - Δ : internal component.
 -  : signal path.
 -  : B+ bus.
 -  : B- bus.
 -  : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).

Note: The components identified by shading and marked with  are critical for safety. Replace only with the part number specified.

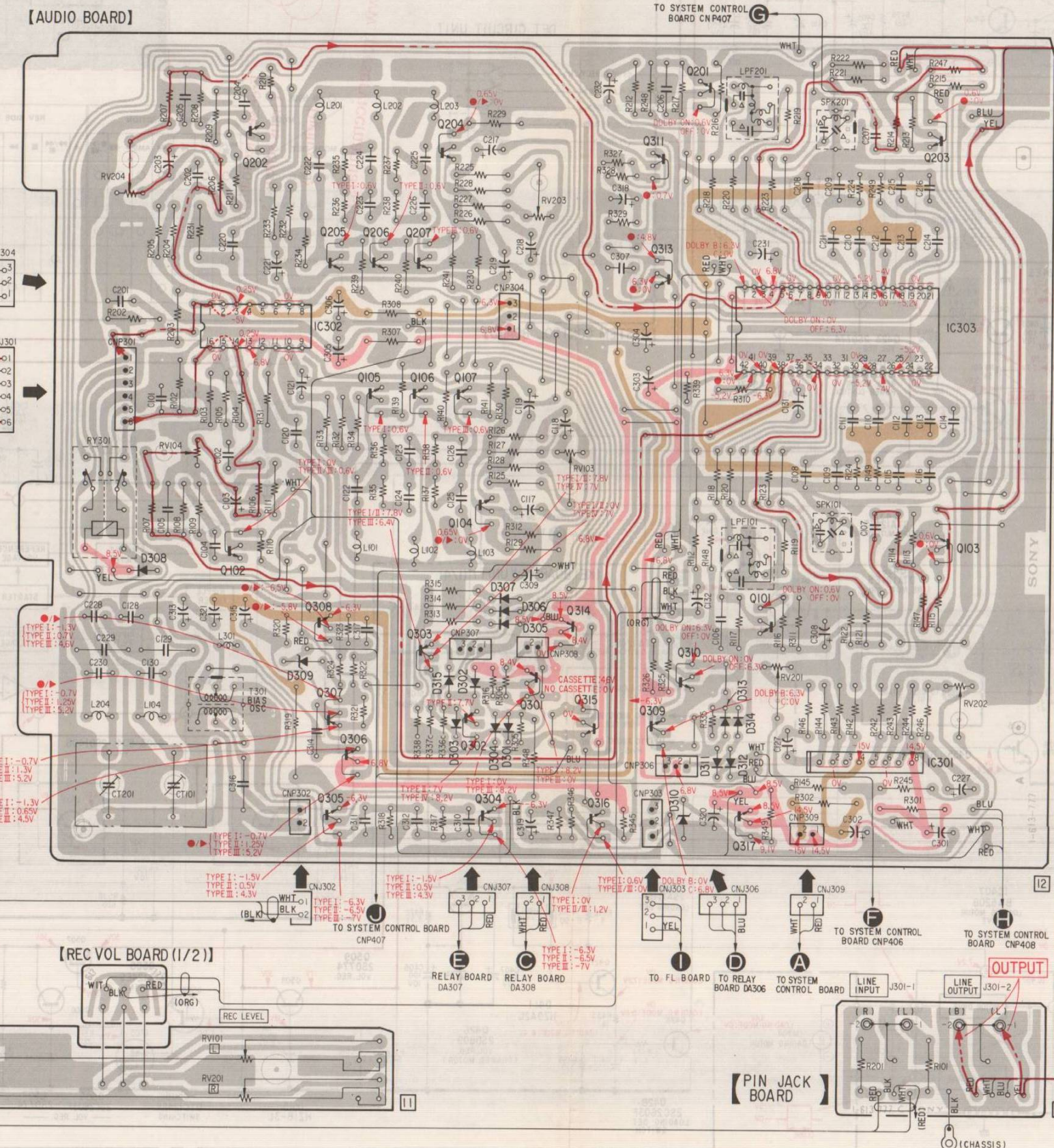
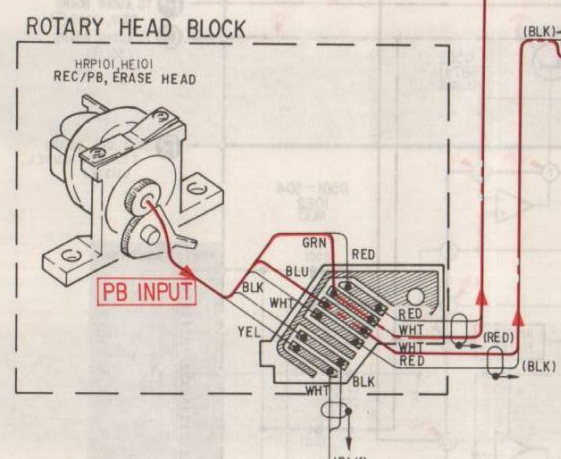
Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note on Mounting Diagram:

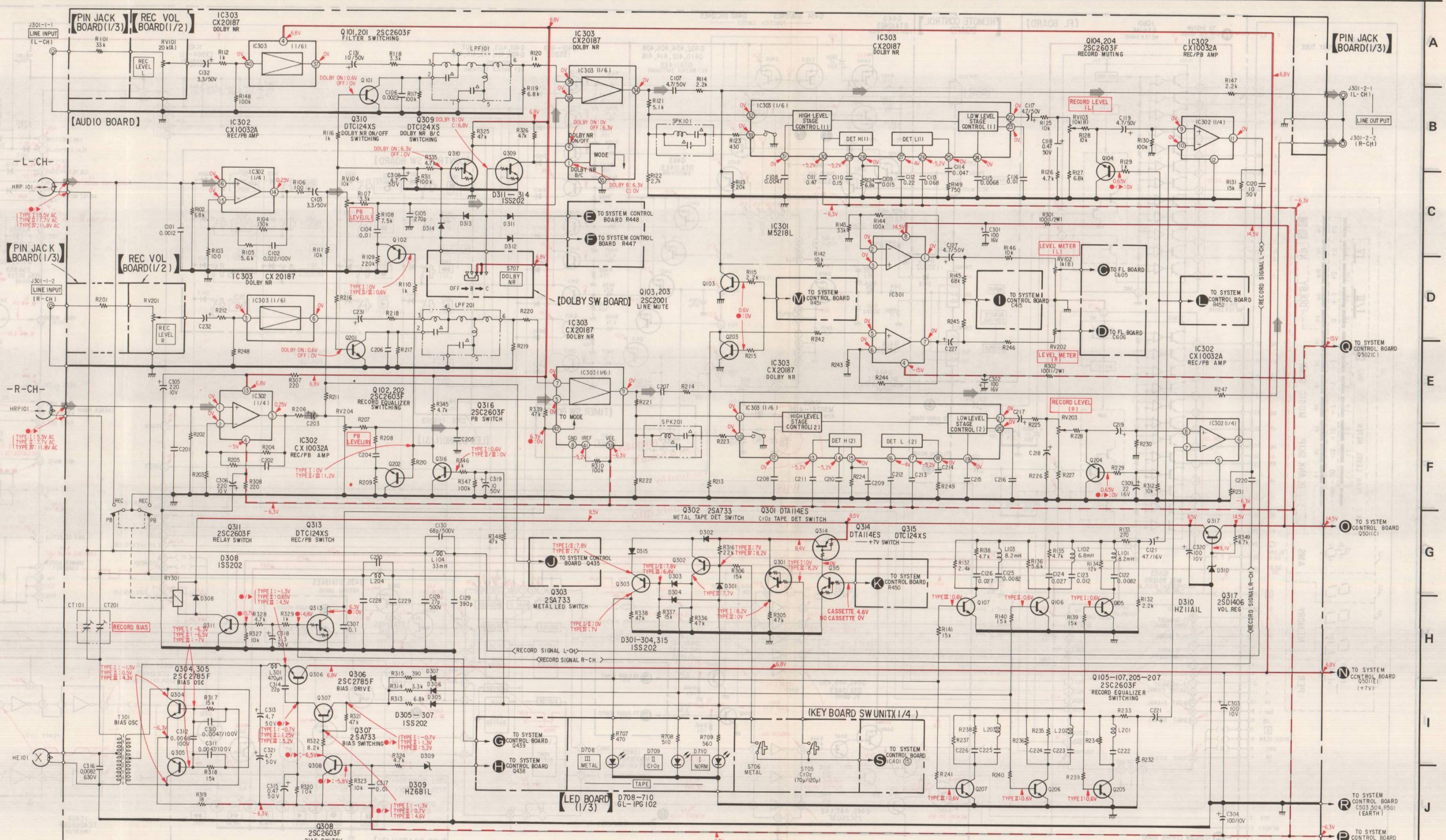
- Color code of sleeving over the end of the jacket.



- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.
- [] — : indicates side identified with part number.
- —→ : signal path
- —→ : L-CH signal path
- —→ : R-CH signal path
- B + pattern
- B - pattern



Q , IC	D
201	
202	
204 311	203
205,206,207	
313	
IC302 IC303	
105,106,107	
104	
102 103	
308	308
308 314 101	307
303	306
301 310	305
307 302 309	309
315	315 302
306 IC301	303,304,301
305,304,316 317	313,31
	311,31
	310



SECTION 5

EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

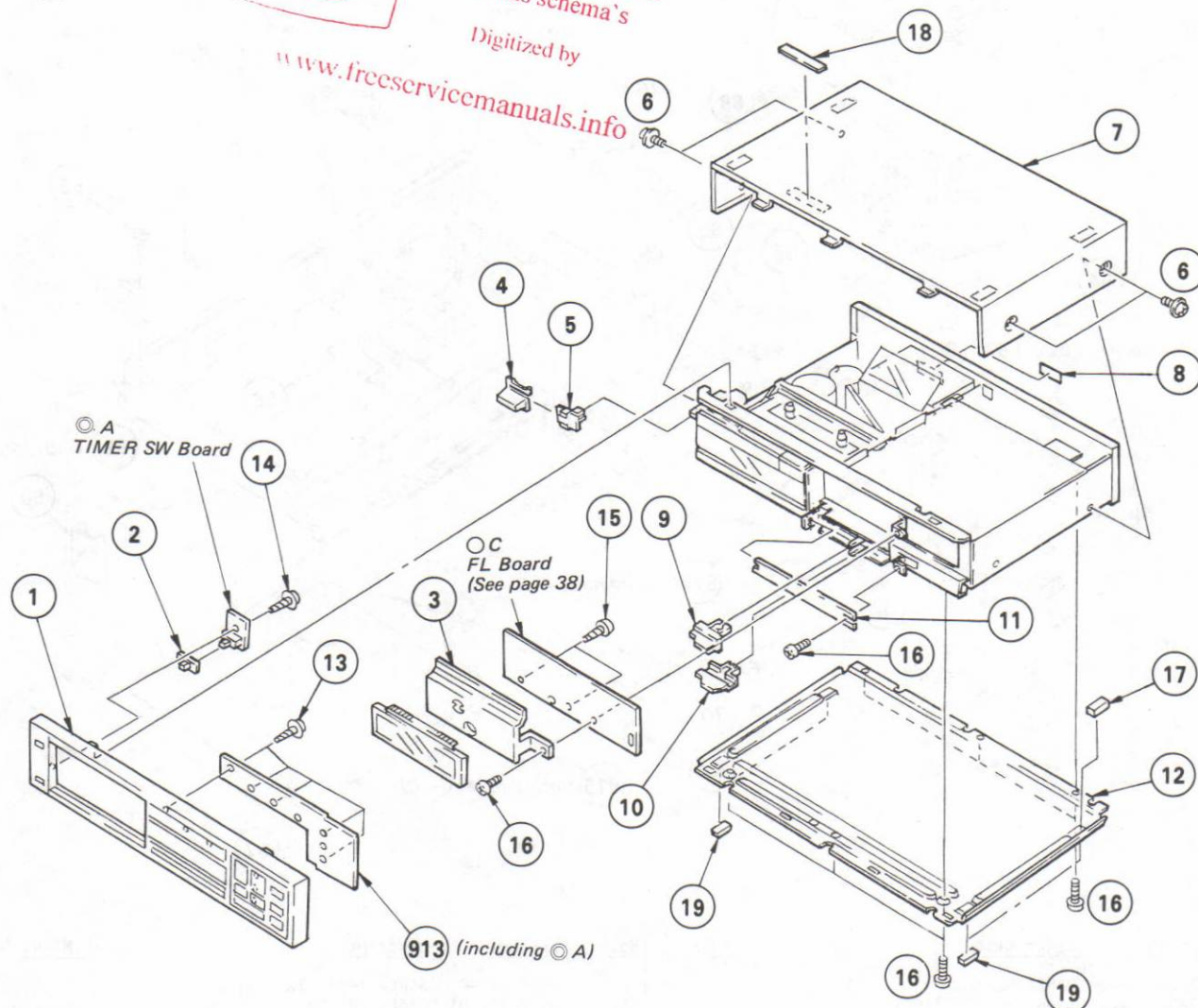
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)

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Gratis schema's
Digitized by

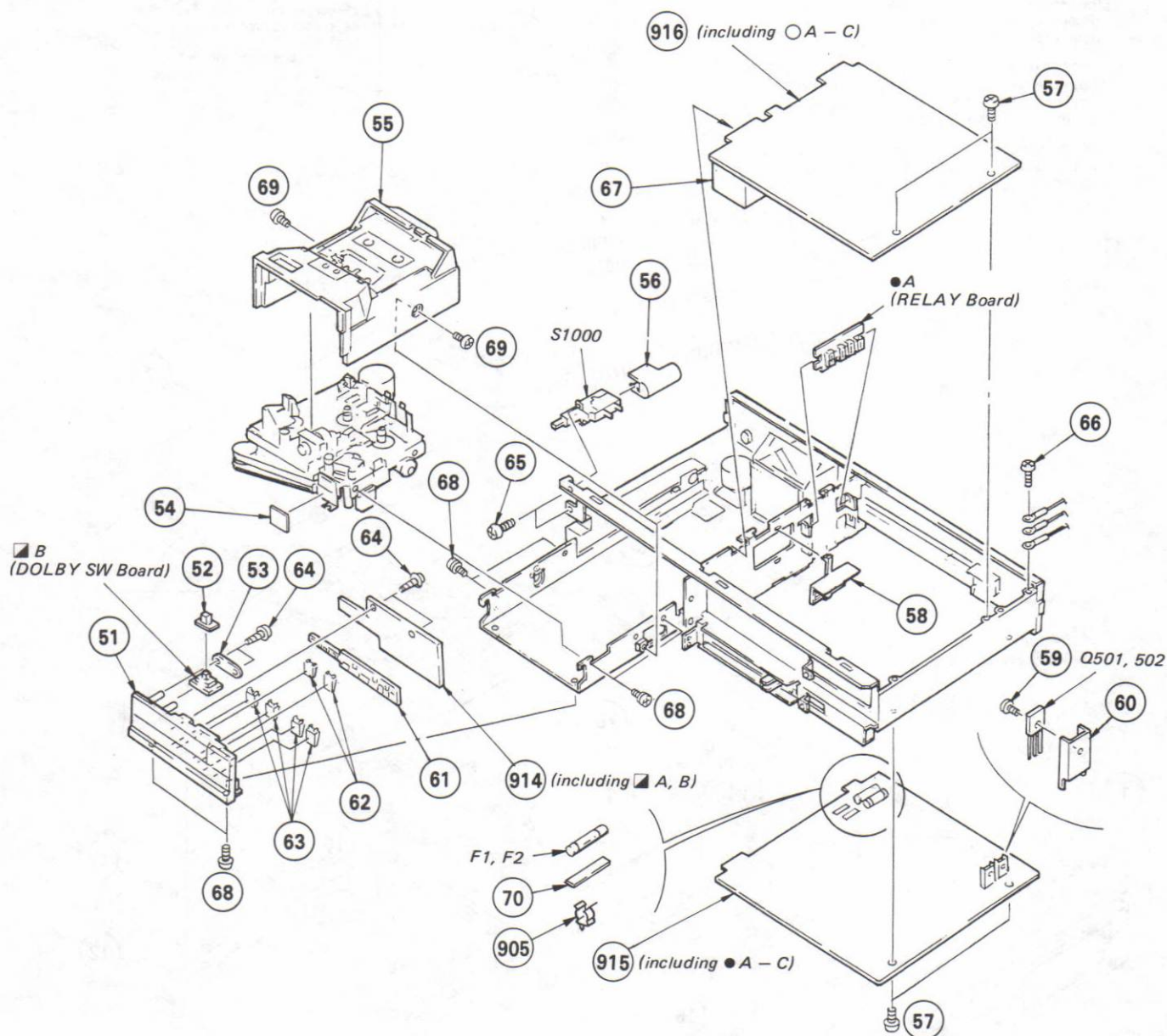
www.freesevicemanuals.info



No.	Part No.	Description	REMARKS
1	X-323-409-1	PANEL ASSY, FRONT	
2	3-323-415-01	KNOB, SWITCH TIMER	
3	*3-323-450-01	HOLDER, FL TUBE	
4	4-907-611-01	KNOB, POWER	
5	*4-875-466-00	JOINT (F2), KNOB	
6	4-886-821-01	SCREW, M3 CASE	
7	4-907-624-11	CASE	
8	*4-302-759-00	(Canadian,E)...LABEL, SERIAL NUMBER	
9	3-323-446-01	KNOB (LEFT), CONTROL	
10	3-323-447-01	KNOB (RIGHT), CONTROL	

No.	Part No.	Description	REMARKS
11	3-323-434-01	PLATE, ORNAMENTAL, CONTROL	
12	*3-323-422-01	PLATE, BOTTOM	
13	7-687-204-11	TOTSU PTPWH 2X6 NON-SLIT, TYPE2	
14	7-687-233-11	SCREW, TOTSU PTPWH 2.6X6, TYPE2	
15	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
16	7-685-871-01	SCREW +BVTT 3X6 (S)	
17	*3-323-474-01	CUSHION, RUBBER	
18	3-323-480-01	LABEL, CAUTION, DROWER	
19	3-323-476-01	FOOT	
913	*1-613-779-11	PC BOARD, SW	

(2)



No.	Part No.	Description	REMARKS
51	X-3323-408-1	PANEL ASSY	
52	3-323-415-01	KNOB, SWITCH TIMER	
53	3-323-443-01	STOPPER (B)	
54	3-323-471-01	PLATE (A), INSULATING	
55	X-3323-407-1	COVER ASSY, MD	
56	3-575-524-00	COVER, POWER SWITCH	
57	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
58	*3-323-448-01	GUIDE, CONNECTOR	
59	2-259-121-00	SCREW, TR	
60	*3-312-615-11	HEAT SINK	
61	3-323-445-01	HOLDER, LED	
62	3-323-457-11	PRISM	
63	3-323-457-01	PRISM	
64	7-687-233-11	SCREW, TOTSU PTPWH 2.6X6, TYPE2	
65	7-682-642-01	SCREW +PS 3X5. (S)	

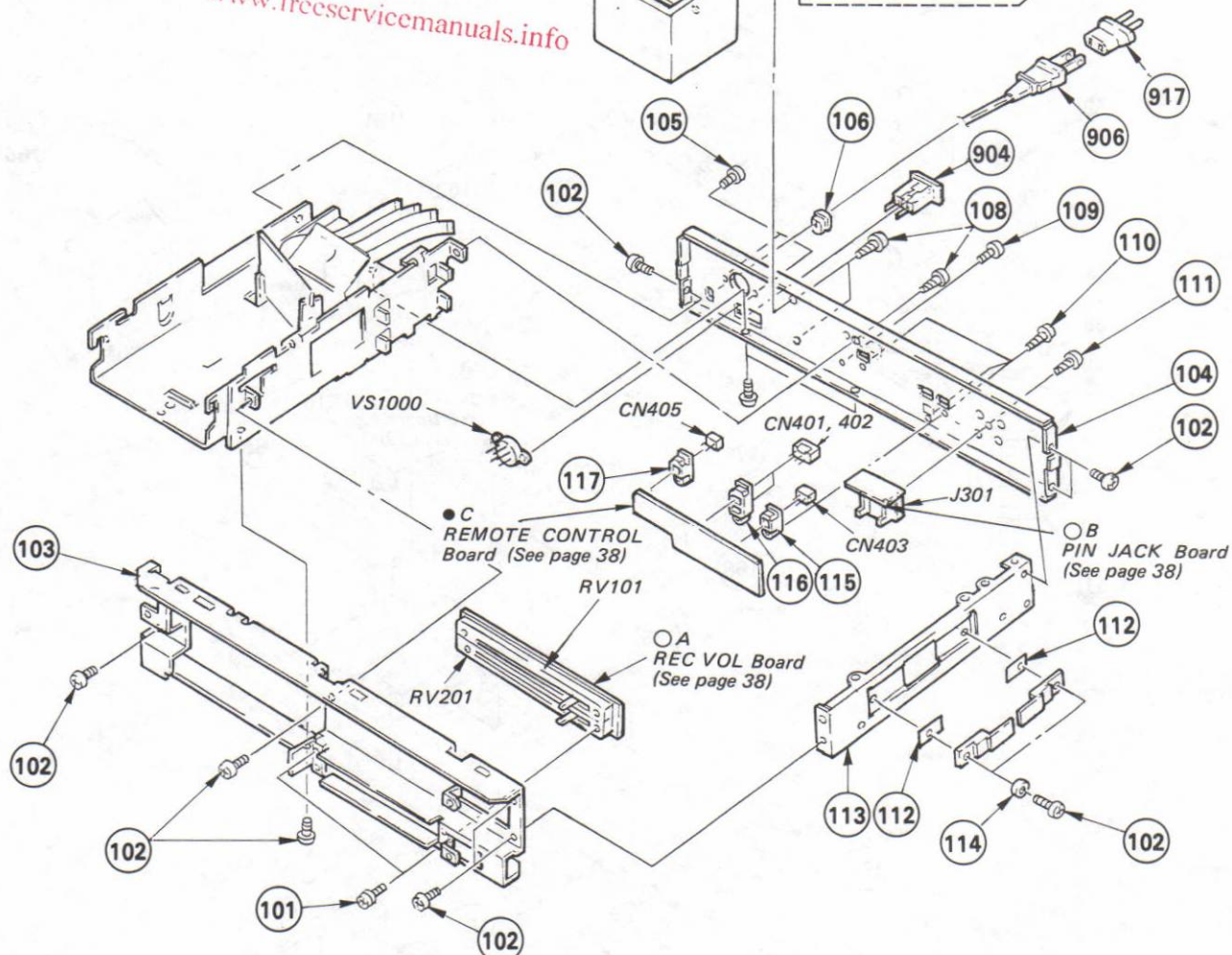
No.	Part No.	Description	REMARKS
66	7-685-871-01	SCREW +BVTT 3X6 (S)	
67	*3-323-444-01	CASE, SHIELD	
68	7-682-145-09	SCREW, +P 3X4	
69	7-682-546-09	SCREW, +B 3X5	
70	*3-701-948-16	LABEL, FUSE	
905	1-533-162-00	HOLDER, FUSE	
911	*1-613-777-11	PC BOARD, AUDIO/FL	
912	*1-613-778-11	PC BOARD, SYSTEM CONTROL	
914	*1-613-780-11	PC BOARD, LED	
915	*A-2056-259-A	(AEP,G-AEP,E)...PC BOARD ASSY, SYSTEM CONTROL	
	*A-2056-272-A	(Canadian).....PC BOARD ASSY, SYSTEM CONTROL	
916	*A-2056-258-A	PC BOARD ASSY, AUDIO/FL	

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A diagram of a rectangular box with a lid. The lid is open, revealing internal components. A label is attached to the inside of the lid. An arrow points to the label. The box is shown in a perspective view.

AEP, G-AEP model

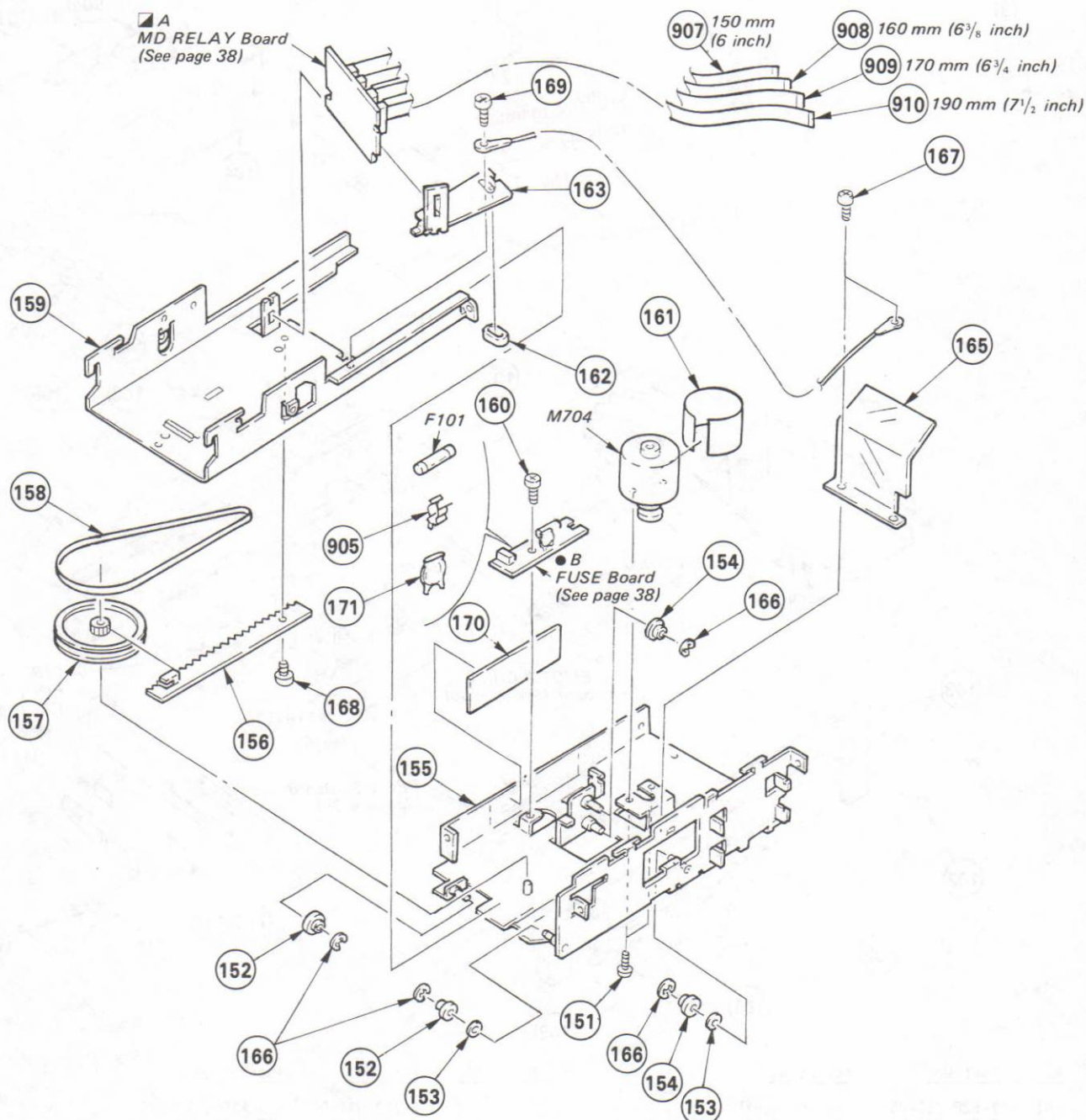
Diagram illustrating the removal of the front panel (104) from the AEP, G-AEP model. The panel is shown being lifted away from the main unit, revealing internal components. Callout 904 points to a small component on the panel, and callout 107 points to a rectangular plate.



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>REMARKS</u>
112	3-703-037-00	INSULATOR, T0-220	
113	*3-323-449-01	PLATE (RIGHT)	
114	2-371-561-00	BUSHING (P), INSULATING	
115	*3-322-819-01	HOLDER, CONNECTOR	
116	*3-322-818-01	HOLDER, CONNECTOR	
117	*3-323-401-01	HOLDER (2 PIN), CONNECTOR	
904	Δ.1-526-774-11	(E).....OUTLET, AC	
	Δ.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
	Δ.1-526-882-00	(Canadian)....OUTLET, AC	
906	Δ.1-551-427-11	(AEP,G-AEP)....CORD, POWER, EULO PLUG	
	Δ.1-551-472-00	(E).....CORD, POWER	
	Δ.1-557-579-11	(Canadian)....CORD, POWER	
917	Δ.1-526-565-00	(E3)....AC PLUG ADAPTOR	

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

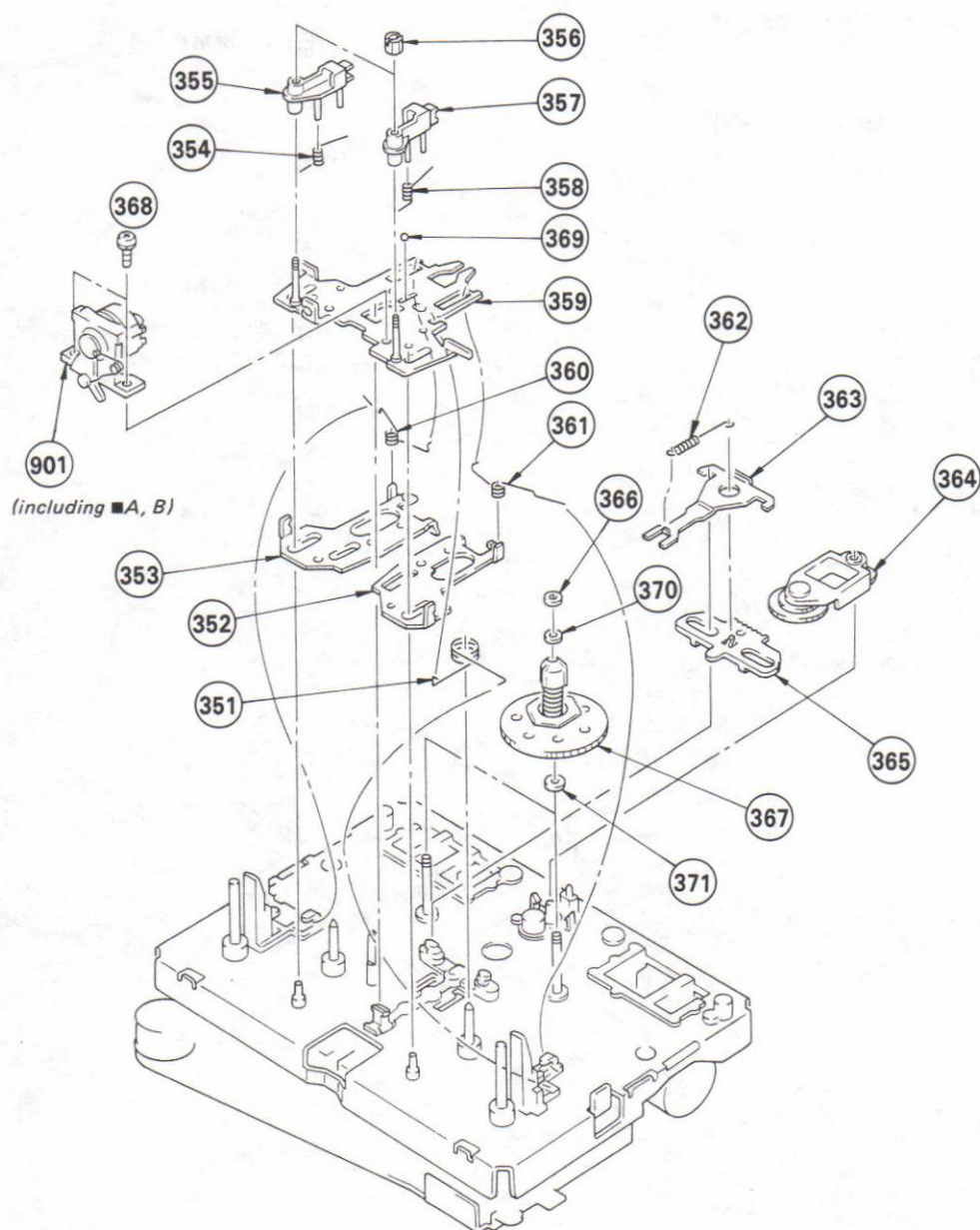
(4)



No.	Part No.	Description	REMARKS	No.	Part No.	Description	REMARKS
151	7-628-254-05	SCREW +PS 2.6X5		165	*3-323-464-01	INSULATOR	
152	3-323-469-01	ROLLER (B)		166	7-624-102-04	STOP RING 1.5, TYPE -E	
153	3-701-437-11	WASHER		167	7-685-870-01	SCREW, +BVTT 3X5 (S)	
154	3-323-436-01	ROLLER		168	7-682-546-09	SCREW, +B 3X5	
155	*X-3323-405-1	CHASSIS (L) ASSY		169	7-685-871-01	SCREW +BVTT 3X6 (S)	
156	3-323-438-01	RACK		170	9-911-863-XX	INSULATOR	
157	3-323-458-01	GEAR, LOADING		171	4-875-455-01	(AEP, G-AEP, E)..COVER (DIA.20), CAPACITOR	
158	3-642-545-00	BELTS, COUNTER		905	1-533-162-00	HOLDER, FUSE	
159	*3-323-453-01	HOLDER, MD		907	1-557-648-11	CORD, PVC (FLAT TYPE)(10 CORE)	
160	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6		908	1-557-648-21	CORD, PVC (FLAT TYPE)(10 CORE)	
161	3-575-457-00	PLATE (B), SHIELD, MOTOR		909	1-557-648-31	CORD, PVC (FLAT TYPE)(10 CORE)	
162	3-537-790-11	SUPPORT, TENSION ARM		910	1-557-648-41	CORD, PVC (FLAT TYPE)(10 CORE)	
163	*3-323-428-01	STOPPER (A)					

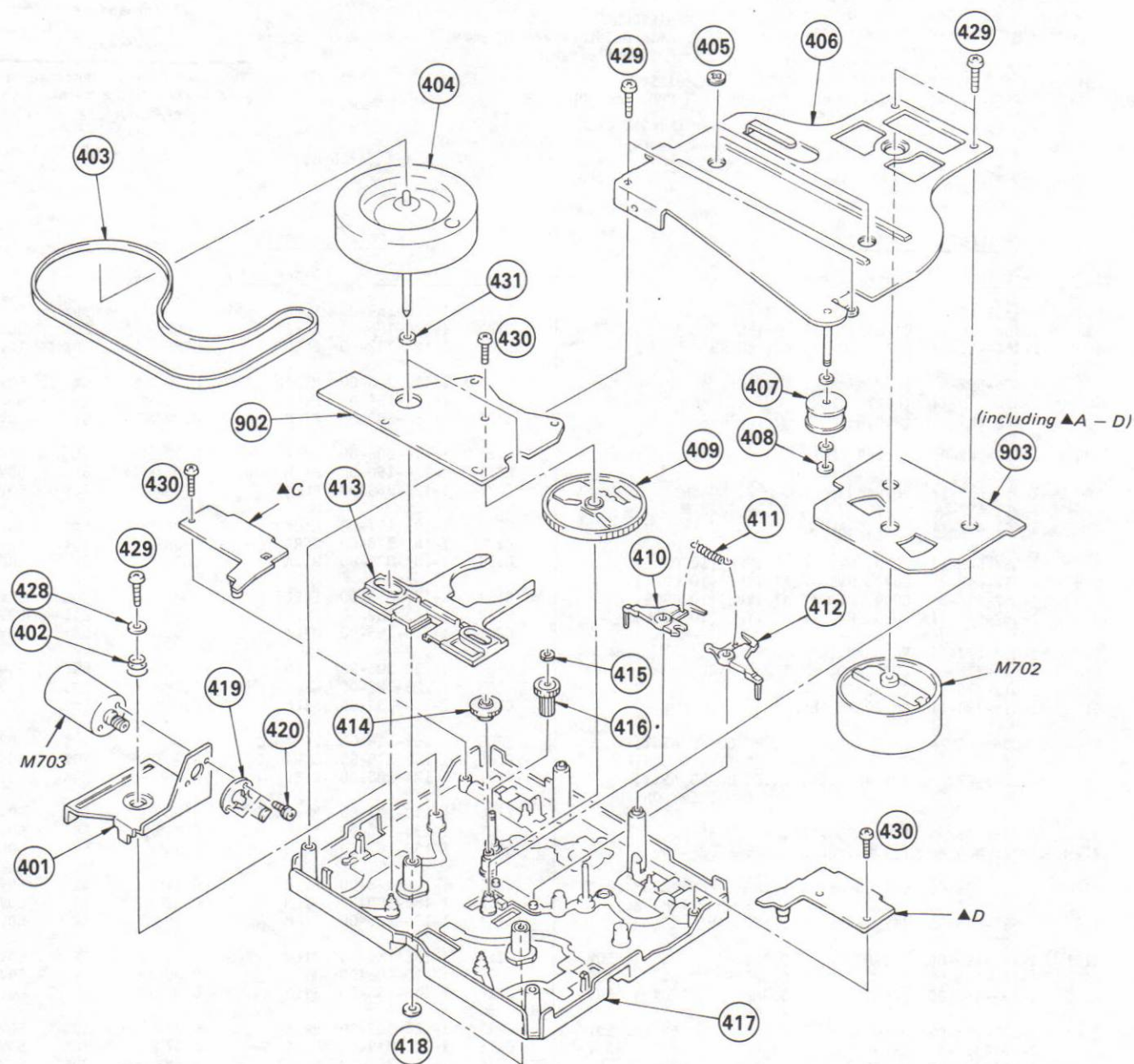
—41—

(6)



No.	Part No.	Description	REMARKS	No.	Part No.	Description	REMARKS
351	3-595-420-01	SPRING		363	*3-595-411-01	SPRING	
352	*3-595-414-01	BASE (RIGHT), SLIDE		364	X-3595-404-1	IDLER ASSY	
353	*3-595-413-01	BASE (LEFT), SLIDE		365	3-595-412-01	PLATE, SLIDE, C/R	
354	3-595-405-01	SPRING (LEFT)		366	3-595-418-01	WASHER	
355	3-595-403-01	HOLDER, SENSOR		367	X-3595-407-1	REEL ASSY, TAKE-UP	
356	3-595-402-01	NUT, ADJUSTMENT		368	7-628-253-15	SCREW +PS 2X5	
357	3-595-404-01	GUIDE, TAPE		369	7-671-151-01	STAINLESS, BALL 1/16INCH	
358	3-595-406-01	SPRING (RIGHT)		370	3-701-438-11	WASHER, 2.5	
359	3-595-407-01	PREPARATION, HEAD, PLATE		371	3-701-437-11	WASHER	
360	3-595-415-01	SPRING (LEFT)		901	X-3595-401-1	HEAD ASSY, ROTARY	HRP101,HE101
361	3-595-416-01	SPRING (RIGHT)					
362	3-595-410-01	SLIDE (SP), CR					

(7)



No.	Part No.	Description
401	*3-595-422-01	BKT (R), ASSIST MOTOR
402	3-595-424-01	SPRING
403	3-595-436-01	BELT
404	X-3595-414-1	F/W FHR ASSY
405	3-595-440-01	SCREW, WHEEL
406	*3-595-439-01	PREPARATION, F/W BKT
407	*3-595-438-01	PULLEY, MIDWAY
408	3-595-437-01	LOCK, WASHER
409	X-3595-411-1	GEAR ASSY
410	3-595-429-01	LEVER (RIGHT), BRAKE
411	3-595-431-01	BRAKE (SP)
412	3-595-430-01	LEVER (LEFT), BRAKE
413	3-595-425-01	SLIDE, SELECTION

REMARKS

No.	Part No.	Description
414	3-595-426-01	GEAR, IDLE
415	3-595-428-01	WASHER
416	3-595-427-01	GEAR, WORM
417	3-595-421-01	PREPARATION, CHASSIS
418	3-595-419-01	SEAL, OIL, WASHER
419	3-595-423-01	SPRING
420	3-595-441-01	SCREW, WASHER
428	7-688-003-11	W 3, MIDDLE
429	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT
430	7-685-104-14	SCREW +P 2X6 TYPE2 NON-SLIT
431	3-701-438-11	WASHER, 2.5
902	1-464-410-11	CIRCUIT UNIT, DETECTION
903	*1-464-411-11	SWITCH UNIT, KEY BOARD

REMARKS

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

• All resistors are in ohms.
• F : nonflammable

COILS

• MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA.... : μA..., UPA.... : μPA..., UPC.... : μPC,
UPD.... : μPD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	X-3595-401-1	HEAD ASSY, ROTARY
902	1-464-410-11	CIRCUIT UNIT, DETECTION
903	★1-464-411-11	SWITCH UNIT, KEY BOARD
904	 1-526-882-00	(Canadian)....OUTLET, AC
	 1-526-774-11	(E).....OUTLET, AC
	 1-526-794-11	(AEP,G-AEP)...OUTLET, AC
905	1-533-162-00	HOLDER, FUSE
906	 1-557-579-11	(Canadian)....CORD, POWER
	 1-551-472-00	(E).....CORD, POWER
	 1-551-472-11	(AEP,G-AEP)...CORD, POWER, EULO PLUG
907	1-557-648-11	CORD, PVC (FLAT TYPE)(10 CORE)
908	1-557-648-21	CORD, PVC (FLAT TYPE)(10 CORE)
909	1-557-648-31	CORD, PVC (FLAT TYPE)(10 CORE)
910	1-557-648-41	CORD, PVC (FLAT TYPE)(10 CORE)
911	★1-613-777-11	PC BOARD, AUDIO/FL
912	★1-613-778-11	PC BOARD, SYSTEM CONTROL
913	★1-613-779-11	PC BOARD, SW
914	★1-613-780-11	PC BOARD, LED
915	★A-2056-259-A	(AEP,G-AEP,E)...PC BOARD ASSY, SYSTEM CONTROL
	★A-2056-272-A	(Canadian).....PC BOARD ASSY, SYSTEM CONTROL
916	★A-2056-258-A	PC BOARD ASSY, AUDIO/FL
917	 1-526-565-00	(E)....AC PLUG ADAPTOR
918	★1-535-139-00	(AEP,G-AEP,E)...BASE POST 22MM (10MM PITCH) 2P
919	1-535-416-00	(AEP,G-AEP,E)...TERMINAL
C101	1-110-196-00	MYLAR 0.0012MF 5% 50V
C102	1-130-305-00	FILM 0.022MF 5% 100V
C103	1-123-382-00	ELECT 3.3MF 20% 50V
C104	1-136-153-00	FILM 0.01MF 5% 50V
C105	1-161-316-00	CERAMIC 270PF 10% 50V
C106	1-161-375-00	CERAMIC 0.0022MF 20% 50V
C107	1-124-185-00	ELECT 4.7MF 20% 50V
C108	1-110-203-00	MYLAR 0.0047MF 5% 50V
C109	1-136-155-00	FILM 0.015MF 5% 50V
C110	1-136-167-00	FILM 0.15MF 5% 50V
C111	1-136-173-00	FILM 0.47MF 5% 50V
C112	1-136-169-00	FILM 0.22MF 5% 50V
C113	1-136-163-00	FILM 0.068MF 5% 50V
C114	1-136-161-00	FILM 0.047MF 5% 50V
C115	1-110-205-00	MYLAR 0.0068MF 5% 50V
C116	1-136-153-00	FILM 0.01MF 5% 50V
C117	1-123-369-00	ELECT 4.7MF 20% 50V
C118	1-123-379-00	ELECT 0.47MF 20% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C119	1-123-369-00	ELECT 4.7MF 20% 50V
C120	1-124-186-00	ELECT 10MF 20% 50V
C121	1-123-332-00	ELECT 47MF 20% 16V
C122	1-110-206-00	MYLAR 0.0082MF 5% 50V
C123	1-136-154-00	FILM 0.012MF 5% 50V
C124	1-136-158-00	FILM 0.027MF 5% 50V
C125	1-110-206-00	MYLAR 0.0082MF 5% 50V
C126	1-136-158-00	FILM 0.027MF 5% 50V
C127	1-123-369-00	ELECT 4.7MF 20% 50V
C128	1-107-157-00	MICA 27PF 5% 500V
C129	1-161-318-00	CERAMIC 390PF 10% 50V
C130	1-107-036-00	MICA 68PF 5% 500V
C131	1-123-356-00	ELECT 10MF 20% 50V
C132	1-123-382-00	ELECT 3.3MF 20% 50V
C201	1-110-196-00	MYLAR 0.0012MF 5% 50V
C202	1-130-305-00	FILM 0.022MF 5% 100V
C203	1-123-382-00	ELECT 3.3MF 20% 50V
C204	1-136-153-00	FILM 0.01MF 5% 50V
C205	1-161-316-00	CERAMIC 270PF 10% 50V
C206	1-161-375-00	CERAMIC 0.0022MF 20% 50V
C207	1-124-185-00	ELECT 4.7MF 20% 50V
C208	1-110-203-00	MYLAR 0.0047MF 5% 50V
C209	1-136-155-00	FILM 0.015MF 5% 50V
C210	1-136-167-00	FILM 0.15MF 5% 50V
C211	1-136-173-00	FILM 0.47MF 5% 50V
C212	1-136-169-00	FILM 0.22MF 5% 50V
C213	1-136-163-00	FILM 0.068MF 5% 50V
C214	1-136-161-00	FILM 0.047MF 5% 50V
C215	1-110-205-00	MYLAR 0.0068MF 5% 50V
C216	1-136-153-00	FILM 0.01MF 5% 50V
C217	1-123-369-00	ELECT 4.7MF 20% 50V
C218	1-123-379-00	ELECT 0.47MF 20% 50V
C219	1-123-369-00	ELECT 4.7MF 20% 50V
C220	1-124-186-00	ELECT 10MF 20% 50V
C221	1-123-332-00	ELECT 47MF 20% 16V
C222	1-110-206-00	MYLAR 0.0082MF 5% 50V
C223	1-136-154-00	FILM 0.012MF 5% 50V
C224	1-136-158-00	FILM 0.027MF 5% 50V
C225	1-110-206-00	MYLAR 0.0082MF 5% 50V
C226	1-136-158-00	FILM 0.027MF 5% 50V
C227	1-123-369-00	ELECT 4.7MF 20% 50V
C228	1-107-157-00	MICA 27PF 5% 500V
C229	1-161-318-00	CERAMIC 390PF 10% 50V
C230	1-107-036-00	MICA 68PF 5% 500V
C231	1-123-356-00	ELECT 10MF 20% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C232	1-123-382-00	ELECT	3.3MF	20%	50V
C301	1-123-333-00	ELECT	100MF	20%	16V
C302	1-123-333-00	ELECT	100MF	20%	16V
C303	1-123-307-00	ELECT	100MF	20%	10V
C304	1-123-307-00	ELECT	100MF	20%	10V
C305	1-123-308-00	ELECT	220MF	20%	10V
C306	1-123-308-00	ELECT	220MF	20%	10V
C307	1-136-165-00	FILM	0.1MF	5%	50V
C308	1-123-369-00	ELECT	4.7MF	20%	50V
C309	1-123-330-00	ELECT	22MF	20%	16V
C310	1-130-289-00	FILM	0.0047MF	5%	100V
C311	1-130-289-00	FILM	0.0047MF	5%	100V
C312	1-130-293-00	FILM	0.0068MF	5%	100V
C313	1-123-369-00	ELECT	4.7MF	20%	50V
C314	1-102-959-00	CERAMIC	22PF	5%	50V
C315	1-123-379-00	ELECT	0.47MF	20%	50V
C316	1-129-713-00	FILM	0.0082MF	10%	630V
C317	1-136-153-00	FILM	0.01MF	5%	50V
C318	1-123-382-00	ELECT	3.3MF	20%	50V
C319	1-123-356-00	ELECT	10MF	20%	50V
C320	1-123-307-00	ELECT	100MF	20%	10V
C321	1-123-369-00	ELECT	4.7MF	20%	50V
C401	1-123-318-00	ELECT	33MF	20%	10V
C402	1-123-318-00	ELECT	33MF	20%	10V
C403	1-123-307-00	ELECT	100MF	20%	10V
C404	1-123-307-00	ELECT	100MF	20%	10V
C405	1-123-307-00	ELECT	100MF	20%	10V
C406	1-123-307-00	ELECT	100MF	20%	10V
C407	1-123-307-00	ELECT	100MF	20%	10V
C408	1-162-029-00	CERAMIC	47PF	5%	50V
C409	1-162-029-00	CERAMIC	47PF	5%	50V
C410	1-123-380-00	ELECT	1MF	20%	50V
C411	1-123-318-00	ELECT	33MF	20%	10V
C412	1-123-318-00	ELECT	33MF	20%	10V
C413	1-136-165-00	FILM	0.1MF	5%	50V
C414	1-136-161-00	FILM	0.047MF	5%	50V
C415	1-136-161-00	FILM	0.047MF	5%	50V
C416	1-123-380-00	ELECT	1MF	20%	50V
C417	1-123-307-00	ELECT	100MF	20%	10V
C418	1-123-299-00	ELECT	1000MF	20%	6.3V
C419	1-161-313-00	CERAMIC	150PF	10%	50V
C420	1-161-313-00	CERAMIC	150PF	10%	50V
C421	1-161-326-00	CERAMIC	0.0022MF	30%	50V
C422	1-123-307-00	ELECT	100MF	20%	10V
C423	1-161-319-00	CERAMIC	470PF	10%	50V
C424	1-161-319-00	CERAMIC	470PF	10%	50V
C425	1-161-319-00	CERAMIC	470PF	10%	50V
C426	1-161-319-00	CERAMIC	470PF	10%	50V
C427	1-123-380-00	ELECT	1MF	20%	50V
C428	1-161-494-00	CERAMIC	0.022MF	30%	25V
C429	1-123-356-00	ELECT	10MF	20%	50V
C431	1-161-049-00	CERAMIC	0.0068MF	20%	25V
C432	1-161-379-00	CERAMIC	0.01MF	20%	25V
C501	1-123-337-00	ELECT	1000MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C502	1-123-337-00	ELECT	1000MF	20%	25V
C503	1-123-306-00	ELECT	47MF	20%	10V
C504	1-123-321-00	ELECT	220MF	20%	16V
C505	1-123-321-00	ELECT	220MF	20%	16V
C506	1-123-306-00	ELECT	47MF	20%	10V
C507	1-123-369-00	ELECT	4.7MF	20%	50V
C508	1-123-381-00	ELECT	2.2MF	20%	50V
C509	1-123-324-00	ELECT	1000MF	20%	16V
C510	1-123-336-00	ELECT	470MF	20%	25V
C511	1-123-307-00	ELECT	100MF	20%	10V
C512	1-123-333-00	ELECT	100MF	20%	16V
C513	1-123-359-00	ELECT	47MF	20%	50V
C514	1-123-356-00	ELECT	10MF	20%	50V
C515	1-123-357-00	ELECT	22MF	20%	50V
C516	1-123-356-00	ELECT	10MF	20%	50V
C517	1-123-332-00	ELECT	47MF	20%	25V
C518	1-123-314-00	ELECT	4700MF	20%	10V
C601	1-136-159-00	FILM	0.033MF	5%	50V
C602	1-123-356-00	ELECT	10MF	20%	50V
C603	1-123-356-00	ELECT	10MF	20%	50V
C604	1-123-356-00	ELECT	10MF	20%	50V
C605	1-123-381-00	ELECT	2.2MF	20%	50V
C606	1-123-381-00	ELECT	2.2MF	20%	50V
C1000	1-161-744-00	CAP, CERAMIC	10000PF	FZ	400V
CN1	1-562-634-11	SOCKET, CONNECTOR			
CN2	1-562-634-11	SOCKET, CONNECTOR			
CN3	1-562-634-11	SOCKET, CONNECTOR			
CN4	1-562-634-11	SOCKET, CONNECTOR			
CN11	1-562-634-11	SOCKET, CONNECTOR			
CN22	1-562-634-11	SOCKET, CONNECTOR			
CN33	1-562-634-11	SOCKET, CONNECTOR			
CN44	1-562-634-11	SOCKET, CONNECTOR			
CN401	*1-560-039-00	PIN, CONNECTOR			
CN402	*1-560-039-00	PIN, CONNECTOR			
CN403	*1-560-280-00	CONNECTOR PIN 3P			
CN405	*1-560-286-00	CONNECTOR PIN 2P			
CNP301	*1-564-509-11	PLUG, CONNECTOR 6P			
CNP302	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP303	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP304	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP306	*1-564-337-00	PIN, CONNECTOR 3P			
CNP307	*1-564-337-00	PIN, CONNECTOR 3P			
CNP308	*1-564-336-00	PIN, CONNECTOR 2P			
CNP309	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP401	*1-564-507-11	PLUG, CONNECTOR 4P			
CNP402	*1-564-338-00	PIN, CONNECTOR 4P			
CNP403	*1-564-337-00	PIN, CONNECTOR 3P			
CNP404	*1-564-666-11	PIN, CONNECTOR 10P			
CNP405	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP406	*1-564-505-11	PLUG, CONNECTOR 2P			
CNP407	*1-564-508-11	PLUG, CONNECTOR 5P			
CNP408	*1-564-506-11	PLUG, CONNECTOR 3P			
CNP409	*1-564-507-11	PLUG, CONNECTOR 4P			
CNP410	*1-564-337-00	PIN, CONNECTOR 3P			
CNP411	*1-564-507-11	PLUG, CONNECTOR 4P			
CNP701	*1-564-516-11	PLUG, CONNECTOR 13P			
CNP702	*1-564-509-11	PLUG, CONNECTOR 6P			

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNP703*	1-564-508-11	PLUG, CONNECTOR 5P
CT101	1-141-225-00	CAP, TUNING, TRIMMER
CT201	1-141-225-00	CAP, TUNING, TRIMMER
D301	8-719-107-94	DIODE 1SS202-1
D302	8-719-107-94	DIODE 1SS202-1
D303	8-719-107-94	DIODE 1SS202-1
D304	8-719-107-94	DIODE 1SS202-1
D305	8-719-107-94	DIODE 1SS202-1
D306	8-719-107-94	DIODE 1SS202-1
D307	8-719-107-94	DIODE 1SS202-1
D308	8-719-107-94	DIODE 1SS202-1
D309	8-719-910-64	DIODE HZ6B1L
D310	8-719-910-11	DIODE HZ11A1L
D311	8-719-107-94	DIODE 1SS202-1
D312	8-719-107-94	DIODE 1SS202-1
D313	8-719-107-94	DIODE 1SS202-1
D314	8-719-107-94	DIODE 1SS202-1
D315	8-719-107-94	DIODE 1SS202-1
D401	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D407	8-719-107-94	DIODE 1SS202-1
D408	8-719-107-94	DIODE 1SS202-1
D409	8-719-107-94	DIODE 1SS202-1
D410	8-719-910-68	DIODE HZ6C2L
D411	8-719-910-92	DIODE HZ9A2L
D412	8-719-200-02	DIODE 10E-2
D413	8-719-107-94	DIODE 1SS202-1
D414	8-719-107-94	DIODE 1SS202-1
D415	8-719-107-94	DIODE 1SS202-1
D416	8-719-107-94	DIODE 1SS202-1
D417	8-719-107-94	DIODE 1SS202-1
D418	8-719-107-94	DIODE 1SS202-1
D419	8-719-107-94	DIODE 1SS202-1
D420	8-719-107-94	DIODE 1SS202-1
D421	8-719-107-94	DIODE 1SS202-1
D422	8-719-107-94	DIODE 1SS202-1
D423	8-719-107-94	DIODE 1SS202-1
D424	8-719-107-94	DIODE 1SS202-1
D425	8-719-107-94	DIODE 1SS202-1
D501	8-719-200-02	DIODE 10E-2
D502	8-719-200-02	DIODE 10E-2
D503	8-719-200-02	DIODE 10E-2
D504	8-719-200-02	DIODE 10E-2
D505	8-719-200-02	DIODE 10E-2
D506	8-719-200-02	DIODE 10E-2
D507	8-719-107-94	DIODE 1SS202-1
D508	8-719-200-02	DIODE 10E-2
D509	8-719-200-02	DIODE 10E-2
D510	8-719-200-02	DIODE 10E-2
D511	8-719-200-02	DIODE 10E-2

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D512	8-719-200-02	DIODE 10E-2
D513	8-719-931-07	DIODE EQB01-07
D514	8-719-913-31	DIODE HZ33-1L
D515	8-719-910-83	DIODE HZ18-3L
D516	8-719-200-02	DIODE 10E-2
D601	8-719-107-94	DIODE 1SS202-1
D602	8-719-107-94	DIODE 1SS202-1
D603	8-719-107-94	DIODE 1SS202-1
D604	8-719-107-94	DIODE 1SS202-1
D605	8-719-107-94	DIODE 1SS202-1
D606	8-719-107-94	DIODE 1SS202-1
D607	8-719-107-94	DIODE 1SS202-1
D608	8-719-107-94	DIODE 1SS202-1
D609	8-719-107-94	DIODE 1SS202-1
D610	8-719-107-94	DIODE 1SS202-1
D611	8-719-107-94	DIODE 1SS202-1
D612	8-719-107-94	DIODE 1SS202-1
D613	8-719-107-94	DIODE 1SS202-1
D614	8-719-107-94	DIODE 1SS202-1
D615	8-719-107-94	DIODE 1SS202-1
D701	8-719-107-94	DIODE 1SS202-1
D702	8-719-919-19	DIODE GL8HY001
D703	8-719-919-17	DIODE GL8HD001
D704	8-719-919-18	DIODE GL8PG001
D705	8-719-919-18	DIODE GL8PG001
D706	8-719-919-18	DIODE GL8PG001
D707	8-719-919-18	DIODE GL8PG001
D708	8-719-915-52	DIODE GL-1PG102
D709	8-719-915-52	DIODE GL-1PG102
D710	8-719-915-52	DIODE GL-1PG102
F1	△.1-532-259-00	(AEP,G-AEP,E)...FUSE, TIME-LAG 1.6A TIME LAG
F1	△.1-532-555-00	(Canadian)..FUSE, GLASS TUBE 1.6A NORMAL
F2	△.1-532-259-00	(AEP,G-AEP,E)...FUSE, TIME-LAG 1.6A TIME LAG
F2	△.1-532-555-00	(Canadian)..FUSE, GLASS TUBE 1.6A NORMAL
F101	△.1-532-078-00	(AEP,G-AEP)...FUSE, TIME-LAG 1.0A TIME LAG
FLT601	1-519-330-11	INDICATOR TUBE, FLUORESCENT
IC301	8-759-600-02	IC M5218L
IC302	8-759-101-55	IC CX10032A
IC303	8-752-018-70	IC CX20187
IC401	8-755-641-31	IC CX564-131
IC402	8-759-600-54	IC M50783SP
IC403	8-759-602-14	IC M50761-412P
IC404	8-759-700-46	IC CX10034
IC405	8-759-800-76	IC LB1245
IC406	8-759-600-24	IC M54543L
IC407	8-759-962-08	IC BA6208
IC409	8-759-240-69	IC TC4069UBP
IC501	8-759-700-47	IC CX10035
IC601	8-759-906-02	IC BA6146
IC602	8-759-906-02	IC BA6146
IC603	8-759-905-48	IC MSL9512RS
J301	1-507-907-11	JACK, PIN 4P

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
L101	1-408-256-00	MICRO INDUCTOR 8.2MMH
L102	1-408-255-00	MICRO INDUCTOR 6.8MMH
L103	1-408-256-00	MICRO INDUCTOR 8.2MMH
L104	1-408-930-00	MICRO INDUCTOR 33MMH
L201	1-408-256-00	MICRO INDUCTOR 8.2MMH
L202	1-408-255-00	MICRO INDUCTOR 6.8MMH
L203	1-408-256-00	MICRO INDUCTOR 8.2MMH
L204	1-408-930-00	MICRO INDUCTOR 33MMH
L301	1-407-177-XX	MICRO INDUCTOR 470UH
L401	1-408-080-00	MICRO INDUCTOR 100UH
L402	1-408-080-00	MICRO INDUCTOR 100UH
LPF101	1-231-388-00	FILTER, LOW PASS
LPF201	1-231-388-00	FILTER, LOW PASS
M701	X-3595-413-1	PREPARATION (MAIN MOTOR), MOTOR
M702	X-3595-412-1	PREPARATION (REEL MOTOR), MOTOR
M703	X-3595-410-1	PREPARATION, MOTOR
M704	X-3323-406-1	MOTOR ASSY, D
Q101	8-729-606-33	TRANSISTOR 2SC2603-F
Q102	8-729-606-33	TRANSISTOR 2SC2603-F
Q103	8-729-102-03	TRANSISTOR 2SD1020
Q104	8-729-606-33	TRANSISTOR 2SC2603-F
Q105	8-729-606-33	TRANSISTOR 2SC2603-F
Q106	8-729-606-33	TRANSISTOR 2SC2603-F
Q107	8-729-606-33	TRANSISTOR 2SC2603-F
Q201	8-729-606-33	TRANSISTOR 2SC2603-F
Q202	8-729-606-33	TRANSISTOR 2SC2603-F
Q203	8-729-102-03	TRANSISTOR 2SD1020
Q204	8-729-606-33	TRANSISTOR 2SC2603-F
Q205	8-729-606-33	TRANSISTOR 2SC2603-F
Q206	8-729-606-33	TRANSISTOR 2SC2603-F
Q207	8-729-606-33	TRANSISTOR 2SC2603-F
Q301	8-729-900-61	TRANSISTOR DTA114ES
Q302	8-729-612-77	TRANSISTOR 2SA1027R
Q303	8-729-612-77	TRANSISTOR 2SA1027R
Q304	8-729-178-54	TRANSISTOR 2SC2785
Q305	8-729-178-54	TRANSISTOR 2SC2785
Q306	8-729-178-54	TRANSISTOR 2SC2785
Q307	8-729-612-77	TRANSISTOR 2SA1027R
Q308	8-729-606-33	TRANSISTOR 2SC2603-F
Q309	8-729-900-83	TRANSISTOR DTC124XS
Q310	8-729-900-83	TRANSISTOR DTC124XS
Q311	8-729-606-33	TRANSISTOR 2SC2603-F
Q313	8-729-900-83	TRANSISTOR DTC124XS
Q314	8-729-900-61	TRANSISTOR DTA114ES
Q315	8-729-900-83	TRANSISTOR DTC124XS
Q316	8-729-606-33	TRANSISTOR 2SC2603-F
Q317	8-729-201-78	TRANSISTOR 2SD1406
Q401	8-729-606-33	TRANSISTOR 2SC2603-F
Q402	8-729-900-61	TRANSISTOR DTA114ES
Q403	8-729-606-33	TRANSISTOR 2SC2603-F
Q404	8-729-900-61	TRANSISTOR DTA114ES
Q405	8-729-606-33	TRANSISTOR 2SC2603-F
Q406	8-729-900-61	TRANSISTOR DTA114ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q407	8-729-606-33	TRANSISTOR 2SC2603-F
Q408	8-729-900-61	TRANSISTOR DTA114ES
Q409	8-729-606-33	TRANSISTOR 2SC2603-F
Q410	8-729-900-61	TRANSISTOR DTA114ES
Q411	8-729-606-33	TRANSISTOR 2SC2603-F
Q412	8-729-900-61	TRANSISTOR DTA114ES
Q413	8-729-606-33	TRANSISTOR 2SC2603-F
Q414	8-729-900-61	TRANSISTOR DTA114ES
Q415	8-729-606-33	TRANSISTOR 2SC2603-F
Q416	8-729-900-61	TRANSISTOR DTA114ES
Q417	8-729-900-63	TRANSISTOR DTA124ES
Q418	8-729-102-03	TRANSISTOR 2SD1020
Q419	8-729-195-23	TRANSISTOR 2SA952
Q420	8-729-195-23	TRANSISTOR 2SA952
Q421	8-729-102-03	TRANSISTOR 2SD1020
Q422	8-729-900-63	TRANSISTOR DTA124ES
Q423	8-729-177-43	TRANSISTOR 2SD774
Q424	8-729-900-36	TRANSISTOR DTC124ES
Q425	8-729-180-93	TRANSISTOR 2SD809
Q426	8-729-180-93	TRANSISTOR 2SD809
Q427	8-729-195-23	TRANSISTOR 2SA952
Q428	8-729-606-33	TRANSISTOR 2SC2603-F
Q429	8-729-900-63	TRANSISTOR DTA124ES
Q430	8-729-900-63	TRANSISTOR DTA124ES
Q431	8-729-900-63	TRANSISTOR DTA124ES
Q432	8-729-900-63	TRANSISTOR DTA124ES
Q433	8-729-900-63	TRANSISTOR DTA124ES
Q434	8-729-900-63	TRANSISTOR DTA124ES
Q435	8-729-900-36	TRANSISTOR DTC124ES
Q436	8-729-900-63	TRANSISTOR DTA124ES
Q437	8-729-900-63	TRANSISTOR DTA124ES
Q438	8-729-900-63	TRANSISTOR DTA124ES
Q439	8-729-900-63	TRANSISTOR DTA124ES
Q440	8-729-900-63	TRANSISTOR DTA124ES
Q441	8-729-606-33	TRANSISTOR 2SC2603-F
Q442	8-729-606-33	TRANSISTOR 2SC2603-F
Q443	8-729-900-61	TRANSISTOR DTA114ES
Q444	8-729-900-61	TRANSISTOR DTA114ES
Q445	8-729-606-33	TRANSISTOR 2SC2603-F
Q446	8-729-900-63	TRANSISTOR DTA124ES
Q447	8-729-606-33	TRANSISTOR 2SC2603-F
Q448	8-729-606-33	TRANSISTOR 2SC2603-F
Q449	8-729-900-63	TRANSISTOR DTA124ES
Q450	8-729-900-63	TRANSISTOR DTA124ES
Q451	8-729-900-63	TRANSISTOR DTA124ES
Q452	8-729-900-63	TRANSISTOR DTA124ES
Q453	8-729-900-63	TRANSISTOR DTA124ES
Q454	8-729-900-63	TRANSISTOR DTA124ES
Q455	8-729-195-23	TRANSISTOR 2SA952
Q456	8-729-606-33	TRANSISTOR 2SC2603-F
Q457	8-729-606-33	TRANSISTOR 2SC2603-F
Q458	8-729-900-36	TRANSISTOR DTC124ES
Q459	8-729-606-33	TRANSISTOR 2SC2603-F
Q460	8-729-900-36	TRANSISTOR DTC124ES
Q501	8-729-180-93	TRANSISTOR 2SD809
Q502	8-729-154-82	TRANSISTOR 2SB548-R
Q503	8-729-201-78	TRANSISTOR 2SD1406

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q504	8-729-201-78	TRANSISTOR 2SD1406			
Q505	8-729-900-36	TRANSISTOR DTC124ES			
Q506	8-729-606-33	TRANSISTOR 2SC2603-F			
Q507	8-729-177-43	TRANSISTOR 2SD774			
Q508	8-729-900-63	TRANSISTOR DTA124ES			
Q509	8-729-177-43	TRANSISTOR 2SD774			
R101	1-214-765-00	METAL	33K	1%	1/4W
R102	1-214-773-00	METAL	68K	1%	1/4W
R103	1-214-705-00	METAL	100	1%	1/4W
R104	1-246-524-00	CARBON	130K	5%	1/4W
R105	1-214-747-00	METAL	5.6K	1%	1/4W
R106	1-247-107-00	CARBON	100	5%	1/4W
R107	1-247-143-00	CARBON	3.3K	5%	1/4W
R108	1-247-152-00	CARBON	7.5K	5%	1/4W
R109	1-246-529-00	CARBON	220K	5%	1/4W
R110	1-247-831-00	CARBON	1K	5%	1/6W
R111	1-247-155-00	CARBON	10K	5%	1/4W
R112	1-247-131-00	CARBON	1K	5%	1/4W
R113	1-247-162-00	CARBON	20K	5%	1/4W
R114	1-214-737-00	METAL	2.2K	1%	1/4W
R115	1-247-139-00	CARBON	2.2K	5%	1/4W
R116	1-247-131-00	CARBON	1K	5%	1/4W
R117	1-247-179-00	CARBON	100K	5%	1/4W
R118	1-247-143-00	CARBON	3.3K	5%	1/4W
R119	1-247-151-00	CARBON	6.8K	5%	1/4W
R120	1-247-131-00	CARBON	1K	5%	1/4W
R121	1-247-148-00	CARBON	5.1K	5%	1/4W
R122	1-247-141-00	CARBON	2.7K	5%	1/4W
R123	1-247-122-00	CARBON	430	5%	1/4W
R124	1-247-851-00	CARBON	6.8K	5%	1/6W
R125	1-247-155-00	CARBON	10K	5%	1/4W
R126	1-247-147-00	CARBON	4.7K	5%	1/4W
R127	1-247-151-00	CARBON	6.8K	5%	1/4W
R128	1-247-155-00	CARBON	10K	5%	1/4W
R129	1-247-131-00	CARBON	1K	5%	1/4W
R130	1-247-179-00	CARBON	100K	5%	1/4W
R131	1-247-159-00	CARBON	15K	5%	1/4W
R132	1-247-139-00	CARBON	2.2K	5%	1/4W
R133	1-247-117-00	CARBON	270	5%	1/4W
R134	1-247-157-00	CARBON	12K	5%	1/4W
R135	1-247-847-00	CARBON	4.7K	5%	1/6W
R136	1-247-849-00	CARBON	5.6K	5%	1/6W
R137	1-247-840-00	CARBON	2.4K	5%	1/6W
R138	1-247-847-00	CARBON	4.7K	5%	1/6W
R139	1-247-159-00	CARBON	15K	5%	1/4W
R140	1-247-159-00	CARBON	15K	5%	1/4W
R141	1-247-159-00	CARBON	15K	5%	1/4W
R142	1-247-155-00	CARBON	10K	5%	1/4W
R143	1-247-167-00	CARBON	33K	5%	1/4W
R144	1-247-179-00	CARBON	100K	5%	1/4W
R145	1-247-175-00	CARBON	68K	5%	1/4W
R146	1-247-155-00	CARBON	10K	5%	1/4W
R147	1-247-139-00	CARBON	2.2K	5%	1/4W
R148	1-247-179-00	CARBON	100K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R149	1-247-828-00	CARBON	750	5%	1/6W
R201	1-214-765-00	METAL	33K	1%	1/4W
R202	1-214-773-00	METAL	68K	1%	1/4W
R203	1-214-705-00	METAL	100	1%	1/4W
R204	1-246-524-00	CARBON	130K	5%	1/4W
R205	1-214-747-00	METAL	5.6K	1%	1/4W
R206	1-247-107-00	CARBON	100	5%	1/4W
R207	1-247-143-00	CARBON	3.3K	5%	1/4W
R208	1-247-152-00	CARBON	7.5K	5%	1/4W
R209	1-246-529-00	CARBON	220K	5%	1/4W
R210	1-247-831-00	CARBON	1K	5%	1/6W
R211	1-247-155-00	CARBON	10K	5%	1/4W
R212	1-247-131-00	CARBON	1K	5%	1/4W
R213	1-247-162-00	CARBON	20K	5%	1/4W
R214	1-214-737-00	METAL	2.2K	1%	1/4W
R215	1-247-139-00	CARBON	2.2K	5%	1/4W
R217	1-247-179-00	CARBON	100K	5%	1/4W
R218	1-247-143-00	CARBON	3.3K	5%	1/4W
R219	1-247-151-00	CARBON	6.8K	5%	1/4W
R221	1-247-148-00	CARBON	5.1K	5%	1/4W
R222	1-247-141-00	CARBON	2.7K	5%	1/4W
R223	1-247-122-00	CARBON	430	5%	1/4W
R224	1-247-851-00	CARBON	6.8K	5%	1/6W
R225	1-247-155-00	CARBON	10K	5%	1/4W
R226	1-247-147-00	CARBON	4.7K	5%	1/4W
R227	1-247-151-00	CARBON	6.8K	5%	1/4W
R228	1-247-155-00	CARBON	10K	5%	1/4W
R229	1-247-131-00	CARBON	1K	5%	1/4W
R230	1-247-179-00	CARBON	100K	5%	1/4W
R231	1-247-159-00	CARBON	15K	5%	1/4W
R232	1-247-139-00	CARBON	2.2K	5%	1/4W
R233	1-247-117-00	CARBON	270	5%	1/4W
R234	1-247-157-00	CARBON	12K	5%	1/4W
R235	1-247-847-00	CARBON	4.7K	5%	1/6W
R236	1-247-849-00	CARBON	5.6K	5%	1/6W
R237	1-247-840-00	CARBON	2.4K	5%	1/6W
R238	1-247-847-00	CARBON	4.7K	5%	1/6W
R239	1-247-159-00	CARBON	15K	5%	1/4W
R240	1-247-159-00	CARBON	15K	5%	1/4W
R241	1-247-159-00	CARBON	15K	5%	1/4W
R242	1-247-155-00	CARBON	10K	5%	1/4W
R243	1-247-167-00	CARBON	33K	5%	1/4W
R244	1-247-179-00	CARBON	100K	5%	1/4W
R245	1-247-175-00	CARBON	68K	5%	1/4W
R246	1-247-155-00	CARBON	10K	5%	1/4W
R247	1-247-139-00	CARBON	2.2K	5%	1/4W
R248	1-247-179-00	CARBON	100K	5%	1/4W
R249	1-247-828-00	CARBON	750	5%	1/6W
R301	1-244-849-00	CARBON	100	5%	1/2W
R302	1-244-849-00	CARBON	100	5%	1/2W
R305	1-247-871-00	CARBON	47K	5%	1/6W
R306	1-247-859-00	CARBON	15K	5%	1/6W
R307	1-247-115-00	CARBON	220	5%	1/4W
R308	1-247-115-00	CARBON	220	5%	1/4W
R310	1-214-777-00	METAL	100K	1%	1/4W
R311	1-247-179-00	CARBON	100K	5%	1/4W
R312	1-247-155-00	CARBON	10K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R313	1-247-151-00	CARBON	6.8K	5%	1/4W
R314	1-247-143-00	CARBON	3.3K	5%	1/4W
R315	1-247-121-00	CARBON	390	5%	1/4W
R316	1-247-863-00	CARBON	22K	5%	1/6W
R317	1-247-859-00	CARBON	15K	5%	1/6W
R318	1-247-859-00	CARBON	15K	5%	1/6W
R319	1-247-089-00	CARBON	18	5%	1/4W
R320	1-247-855-00	CARBON	10K	5%	1/6W
R321	1-247-871-00	CARBON	47K	5%	1/6W
R322	1-247-853-00	CARBON	8.2K	5%	1/6W
R323	1-247-855-00	CARBON	10K	5%	1/6W
R324	1-247-847-00	CARBON	4.7K	5%	1/6W
R325	1-247-171-00	CARBON	47K	5%	1/4W
R326	1-247-171-00	CARBON	47K	5%	1/4W
R327	1-247-855-00	CARBON	10K	5%	1/6W
R328	1-247-847-00	CARBON	4.7K	5%	1/6W
R329	1-247-831-00	CARBON	1K	5%	1/6W
R335	1-247-847-00	CARBON	4.7K	5%	1/6W
R336	1-247-871-00	CARBON	47K	5%	1/6W
R337	1-247-859-00	CARBON	15K	5%	1/6W
R338	1-247-871-00	CARBON	47K	5%	1/6W
R339	1-247-871-00	CARBON	47K	5%	1/6W
R345	1-247-847-00	CARBON	4.7K	5%	1/6W
R346	1-247-831-00	CARBON	1K	5%	1/6W
R347	1-247-879-00	CARBON	100K	5%	1/6W
R348	1-247-871-00	CARBON	47K	5%	1/6W
R349	1-247-147-00	CARBON	4.7K	5%	1/4W
R401	1-247-847-00	CARBON	4.7K	5%	1/6W
R402	1-247-847-00	CARBON	4.7K	5%	1/6W
R403	1-247-847-00	CARBON	4.7K	5%	1/6W
R404	1-247-847-00	CARBON	4.7K	5%	1/6W
R405	1-247-847-00	CARBON	4.7K	5%	1/6W
R406	1-247-847-00	CARBON	4.7K	5%	1/6W
R407	1-247-847-00	CARBON	4.7K	5%	1/6W
R408	1-247-847-00	CARBON	4.7K	5%	1/6W
R409	1-247-847-00	CARBON	4.7K	5%	1/6W
R410	1-247-155-00	CARBON	10K	5%	1/4W
R411	1-247-131-00	CARBON	1K	5%	1/4W
R412	1-247-155-00	CARBON	10K	5%	1/4W
R413	1-247-155-00	CARBON	10K	5%	1/4W
R414	1-247-131-00	CARBON	1K	5%	1/4W
R415	1-247-131-00	CARBON	1K	5%	1/4W
R416	1-247-155-00	CARBON	10K	5%	1/4W
R417	1-247-131-00	CARBON	1K	5%	1/4W
R418	1-247-147-00	CARBON	4.7K	5%	1/4W
R419	1-247-143-00	CARBON	3.3K	5%	1/4W
R420	1-206-481-00	METAL OXIDE	56	5%	2W F
R421	1-247-127-00	CARBON	680	5%	1/4W
R422	1-247-143-00	CARBON	3.3K	5%	1/4W
R423	1-247-847-00	CARBON	4.7K	5%	1/6W
R424	1-247-847-00	CARBON	4.7K	5%	1/6W
R425	1-247-847-00	CARBON	4.7K	5%	1/6W
R426	1-247-115-00	CARBON	220	5%	1/4W
R427	1-247-115-00	CARBON	220	5%	1/4W

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R428	1-247-171-00	CARBON	47K	5%	1/4W
R429	1-247-171-00	CARBON	47K	5%	1/4W
R432	1-246-412-00	CARBON	3	5%	1/4W
R433	1-247-131-00	CARBON	1K	5%	1/4W
R434	1-247-147-00	CARBON	4.7K	5%	1/4W
R435	1-247-121-00	CARBON	390	5%	1/4W
R436	1-247-147-00	CARBON	4.7K	5%	1/4W
R437	1-247-167-00	CARBON	33K	5%	1/4W
R438	1-247-168-00	CARBON	36K	5%	1/4W
R439	1-247-147-00	CARBON	4.7K	5%	1/4W
R440	1-247-113-00	CARBON	180	5%	1/4W
R441	1-247-855-00	CARBON	10K	5%	1/6W
R442	1-247-855-00	CARBON	10K	5%	1/6W
R443	1-247-855-00	CARBON	10K	5%	1/6W
R444	1-247-855-00	CARBON	10K	5%	1/6W
R445	1-247-155-00	CARBON	10K	5%	1/4W
R446	1-247-155-00	CARBON	10K	5%	1/4W
R447	1-247-143-00	CARBON	3.3K	5%	1/4W
R448	1-247-143-00	CARBON	3.3K	5%	1/4W
R449	1-247-177-00	CARBON	82K	5%	1/4W
R450	1-247-107-00	CARBON	100	5%	1/4W
R451	1-247-107-00	CARBON	100	5%	1/4W
R452	1-247-107-00	CARBON	100	5%	1/4W
R453	1-246-545-00	CARBON	1M	5%	1/4W
R454	1-247-141-00	CARBON	2.7K	5%	1/4W
R455	1-247-147-00	CARBON	4.7K	5%	1/4W
R456	1-247-157-00	CARBON	12K	5%	1/4W
R457	1-247-161-00	CARBON	18K	5%	1/4W
R458	1-247-155-00	CARBON	10K	5%	1/4W
R459	1-247-155-00	CARBON	10K	5%	1/4W
R460	1-247-107-00	CARBON	100	5%	1/4W
R461	1-247-083-00	CARBON	10	5%	1/4W
R462	1-247-847-00	CARBON	4.7K	5%	1/6W
R463	1-247-847-00	CARBON	4.7K	5%	1/6W
R464	1-247-855-00	CARBON	10K	5%	1/6W
R465	1-247-855-00	CARBON	10K	5%	1/6W
R466	1-247-855-00	CARBON	10K	5%	1/6W
R467	1-247-855-00	CARBON	10K	5%	1/6W
R468	1-247-855-00	CARBON	10K	5%	1/6W
R469	1-247-855-00	CARBON	10K	5%	1/6W
R470	1-247-855-00	CARBON	10K	5%	1/6W
R471	1-247-855-00	CARBON	10K	5%	1/6W
R472	1-247-855-00	CARBON	10K	5%	1/6W
R473	1-247-855-00	CARBON	10K	5%	1/6W
R474	1-247-863-00	CARBON	22K	5%	1/6W
R475	1-247-155-00	CARBON	10K	5%	1/4W
R476	1-247-855-00	CARBON	10K	5%	1/6W
R477	1-247-855-00	CARBON	10K	5%	1/6W
R478	1-247-115-00	CARBON	220	5%	1/4W
R479	1-247-851-00	CARBON	6.8K	5%	1/6W
R480	1-247-847-00	CARBON	4.7K	5%	1/6W
R483	1-247-171-00	CARBON	47K	5%	1/4W
R484	1-247-171-00	CARBON	47K	5%	1/4W
R485	1-247-171-00	CARBON	47K	5%	1/4W
R486	1-247-855-00	CARBON	10K	5%	1/6W
R487	1-247-815-00	CARBON	220	5%	1/6W
R501	1-247-140-00	CARBON	2.4K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R502	1-247-158-00	CARBON 13K 5% 1/4W
R503	1-247-156-00	CARBON 11K 5% 1/4W
R504	1-247-137-00	CARBON 1.8K 5% 1/4W
R505	1-247-147-00	CARBON 4.7K 5% 1/4W
R506	1-247-126-00	CARBON 620 5% 1/4W
R507	1-247-138-00	CARBON 2K 5% 1/4W
R508	1-247-126-00	CARBON 620 5% 1/4W
R510	1-247-163-00	CARBON 22K 5% 1/4W
R511	1-247-115-00	CARBON 220 5% 1/4W
R512	1-247-141-00	CARBON 2.7K 5% 1/4W
R513	1-247-135-00	CARBON 1.5K 5% 1/4W
R601	1-247-855-00	CARBON 10K 5% 1/6W
R602	1-247-863-00	CARBON 22K 5% 1/6W
R603	1-247-863-00	CARBON 22K 5% 1/6W
R604	1-247-855-00	CARBON 10K 5% 1/6W
R605	1-247-855-00	CARBON 10K 5% 1/6W
R701	1-247-115-00	CARBON 220 5% 1/4W
R702	1-247-119-00	CARBON 330 5% 1/4W
R703	1-247-107-00	CARBON 100 5% 1/4W
R704	1-247-107-00	CARBON 100 5% 1/4W
R705	1-247-107-00	CARBON 100 5% 1/4W
R706	1-247-107-00	CARBON 100 5% 1/4W
R707	1-247-123-00	CARBON 470 5% 1/4W
R708	1-247-124-00	CARBON 510 5% 1/4W
R709	1-247-125-00	CARBON 560 5% 1/4W
RV101	1-230-314-00	RES, VAR, SLIDE 20K/20K(REC LEVEL/L)
RV102	1-226-233-00	RES, ADJ, CARBON 1K
RV103	1-226-236-00	RES, ADJ, CARBON 10K
RV104	1-226-236-00	RES, ADJ, CARBON 10K
RV201	1-230-314-00	RES, VAR, SLIDE 20K/20K(REC LEVEL/R)
RV202	1-226-233-00	RES, ADJ, CARBON 1K
RV203	1-226-236-00	RES, ADJ, CARBON 10K
RV204	1-226-236-00	RES, ADJ, CARBON 10K
RV401	1-226-235-00	RES, ADJ, CARBON 5K
RY301	1-515-473-00	RELAY
S401	1-553-751-00	SWITCH, SLIDE (TIMER)
S601	1-554-303-00	SWITCH, KEY BOARD (STOP)
S602	1-554-303-00	SWITCH, KEY BOARD (REC MUTE)
S603	1-554-303-00	SWITCH, KEY BOARD (PER)
S604	1-554-303-00	SWITCH, KEY BOARD (DIRECTION MODE)
S605	1-554-303-00	SWITCH, KEY BOARD (REW)
S606	1-554-303-00	SWITCH, KEY BOARD (PAUSE)
S607	1-554-303-00	SWITCH, KEY BOARD (RESET)
S608	1-554-303-00	SWITCH, KEY BOARD (MUSIC SCAN)
S609	1-554-303-00	SWITCH, KEY BOARD (FF)
S610	1-554-303-00	SWITCH, KEY BOARD (REC)
S611	1-554-303-00	SWITCH, KEY BOARD (MEMORY)
S612	1-554-303-00	SWITCH, KEY BOARD (AMS)
S613	1-554-303-00	SWITCH, KEY BOARD (FWD)
S614	1-554-303-00	SWITCH, KEY BOARD (REV)
S615	1-554-303-00	SWITCH, KEY BOARD (BLANK SKIP)
S701	1-554-303-00	SWITCH, KEY BOARD (OPEN/CLOSE)
S702	1-570-060-11	SWITCH, SLIDE (HALF DET)
S707	1-554-168-00	SWITCH, SLIDE (DOLBY NR)
S1000	1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
T301	1-433-291-11	TRANSFORMER, BIAS OSCILLATION
T1000	1-448-062-11	(Canadian)...TRANSFORMER, POWER
T1000	1-448-063-11	(AEP,G-AEP)...TRANSFORMER, POWER
T1000	1-448-064-11	(E).....TRANSFORMER, POWER
TH401	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK
TH402	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK
AVS1000	1-526-576-51	(E)...SELECTOR, POWER VOLTAGE
X401	1-567-160-00	OSCILLATOR, CERAMIC
X402	1-527-532-00	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-556-372-41	CORD, CONNECTION (4 CORE)
1-557-654-21	CORD, CONNECTION
3-312-970-00	SHEET, PROTECTION
3-323-468-01	CUSHION, ASSIST
3-323-470-01	SCREW (B3X6), (+ -)
3-323-479-01	(E)...INDIVIDUAL CARTON
3-323-479-11	(Canadian,AEP,G-AEP)...INDIVIDUAL CARTON
3-701-630-00	BAG, POLYETHYLENE
3-760-102-11	(Canadian,AEP,E)...MANUAL, INSTRUCTION
3-760-102-41	(AEP,G-AEP).....MANUAL, INSTRUCTION
*4-302-759-00	LABEL, SERIAL NUMBER
4-906-019-01	CUSHION (LEFT), LOWER
4-906-020-01	CUSHION (RIGHT), LOWER
4-906-021-01	CUSHION (LEFT), UPPER
4-906-022-01	CUSHION (RIGHT), UPPER

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.