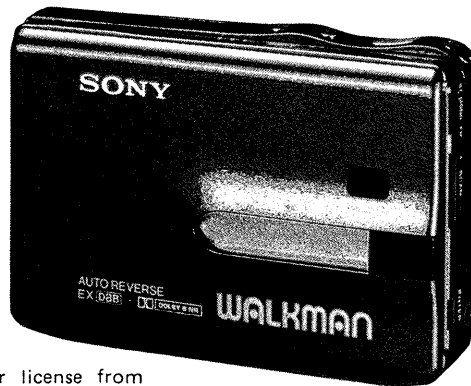



WM-FX70

SERVICE MANUAL



*US Model
Canadian Model
AEP Model
UK Model
E Model*

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	WM-EX60/EX70
Tape Transport Mechanism Type	MF-WMFX70-60

SPECIFICATIONS

Radio section

Frequency range	FM: 87.5 – 108.0 MHz (100 kHz step) (US, Canada)
	87.5 – 108.0 MHz (50 kHz step) (Other country)
MW:	530 – 1710 kHz (10 kHz step) (US, Canada)
	522 – 1611 kHz (9 kHz step) (IT)
	531 – 1602 kHz (9 kHz step) (Other country)
Antenna	FM: Ear receiver cord antenna
	AM: Built-in ferrite bar antenna

Tape player section and general

Frequency response (DOLBY NR off)	20-18,000 Hz (EIAJ*)
Output	Earphones (PHONES/REMOTE jack) load impedance 8-300Ω
Power output	5 mW + 5 mW at DC operation (EIAJ 16Ω)
Power requirements	1.5 V DC
Battery life (EIAJ)	Rechargeable battery
	One R6 (size AA) battery

Battery	Playback	Radio Reception
Rechargeable NC-6WM fully charged	Approx. 3.5 hours	Approx. 8 hours
Sony SUM-3 (NS)	Approx. 2.5 hours	Approx. 8 hours
Sony AM3 (N)	Approx. 9 hours	Approx. 25 hours
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 12.5 hours	Approx. 33 hours

For maximum performance we recommend the use of alkaline batteries.

Dimensions	Approx. 106 × 74.1 × 23.4 mm (w/h/d) not incl. projecting parts and controls (EIAJ) Approx. 108.8 × 76.5 × 26.3 mm (w/h/d) incl. projecting parts and controls (EIAJ)
Weight	Approx. 195 g incl. rechargeable battery, not incl. other accessories

Accessories supplied

Battery case (1) Rechargeable battery (1) Battery charger (1)
Button battery (1) Remote control unit(1) Stereo ear receiver (1)
Ear adaptors (2) If the earphones do not fit your ears, attach the ear adaptors (Except US, Canada, AEP). Carrying case (1)

Design and specifications subject to change without notice.

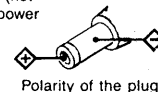
*(EIAJ) Electric Industries Association of Japan

Optional accessories

AC power adaptor AC-E15L, AC-E15AL (Use in conjunction with the supplied battery case)
Car battery cord DDC E115L
Rechargeable battery NC-6WM, NC-5WM
Battery charger BC-7A, Button battery CR 2016
Head cleaning pen CLH-5, Cleaning kit KK-4, KK-31
Ear receivers (Headphones) with micro plugs MDR-E565MP, MDR-E557MP, MDR-E555MP

Note on the AC power adaptor

Use only the AC-E15L AC power adaptor (not supplied) in Japan or the AC-E15AL AC power adaptor (not supplied) outside Japan.
Do not use any other AC power adaptor.



Polarity of the plug

FM/AM RADIO CASSETTE PLAYER
SONY®

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SECTION 1

SERVICING NOTE

This set detects reel rotation by PH701 (photo sensor). Reel rotation cannot be detected when the main board is removed, because PH701 is mounted on the main board. As a result, the auto-off circuit and tape end detection will misoperate. And, up and down of head and power supply of playback circuit cannot operate when the main board is removed, because S 703 (NR switch) is mounted to the main board (S703 is linked to on and off of the plunger solenoid.)

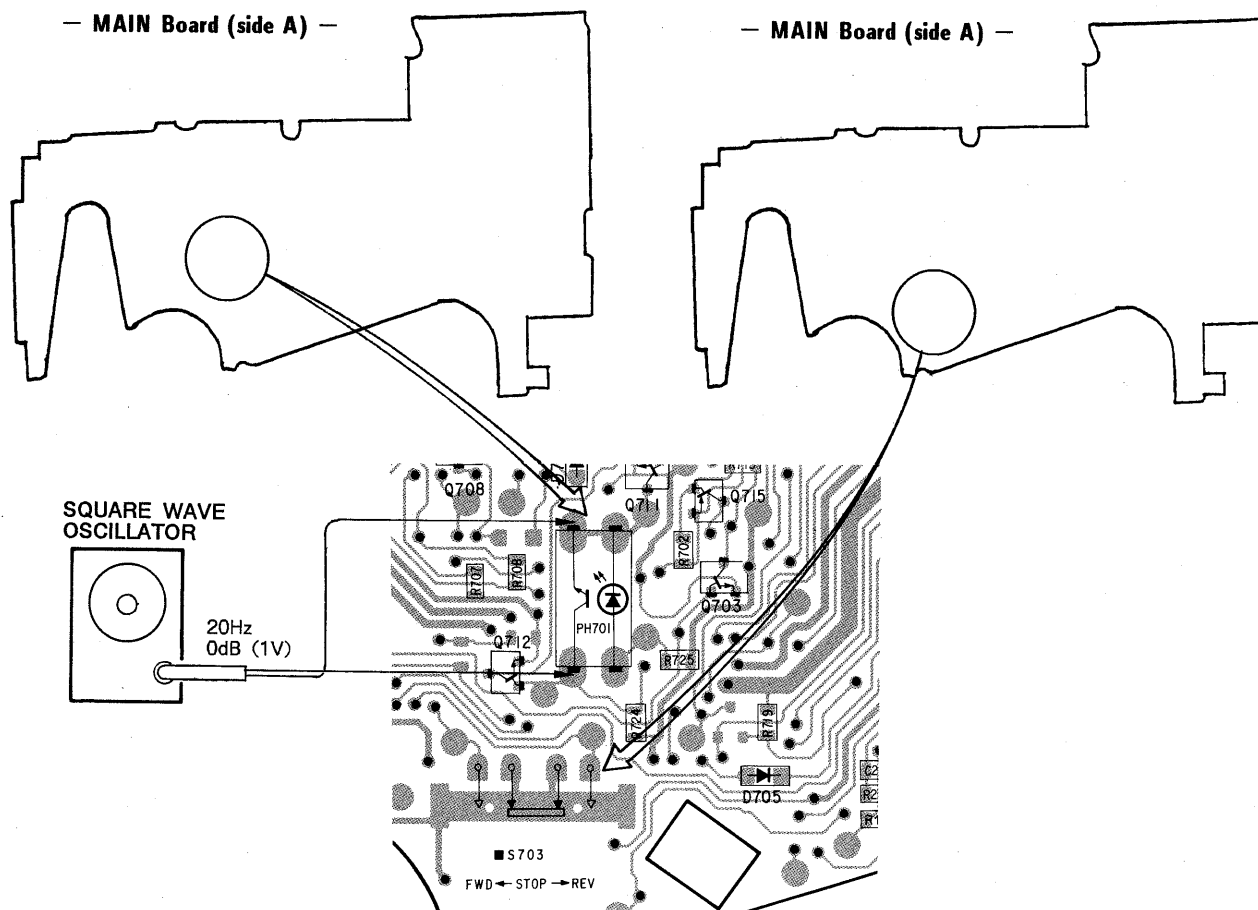
Therefore, operation check of the mechanism deck and voltage check can be performed by the method shown below.

FF/REW mode

- 1) Switch position S703 : STOP (Center)
- 2) Apply the square wave signal to the PH701.
- 3) Press the ◀ or ▶ key.

PLAY mode

- 1) Switch position S703 : STOP (Center)
- 2) Apply the square wave signal to the PH701.
- 3) Press the ▶ key.
- 4) Turn on S703 a few seconds later.

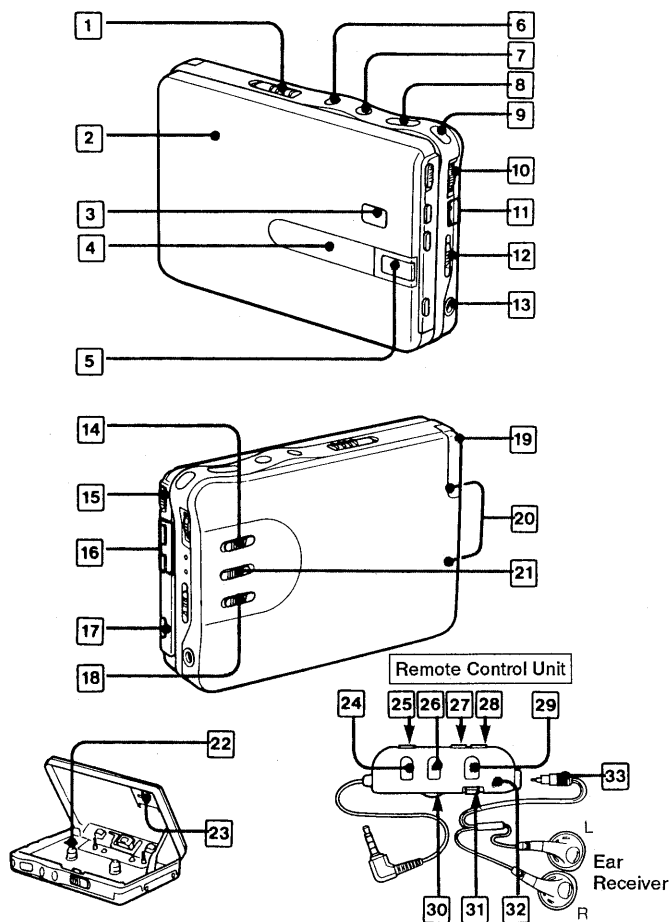


SECTION 2

GENERAL

Parts Identification

- 1 OPEN switch
- 2 Cassette holder
- 3 RADIO ON/BAND (radio on switch/band selector) button
- 4 Display window
- 5 PRESET TUNING (preset number) selector
- 6 REW (rewind) button
- 7 FF (fast-forward) button
- 8 \blacktriangle PLAY/DIR (playback/tape transport direction change) button
- 9 \blacksquare STOP/RADIO OFF button
- 10 VOL (volume) control
- 11 SIDE A/B indicator (battery indicator which also shows which side of the cassette is being played)
- 12 EX DBB (MEGA BASS) (dynamic bass boost) selector
- 13 Ω /REMOTE (ear receiver with remote control unit) jack
- 14 HOLD switch
Slide the HOLD switch in the direction of HOLD to avoid accidental operation of the unit and the remote control unit. Even if the switch is slid to HOLD on the unit, you can operate the unit with the remote control unit, and even if the switch is slid to HOLD on the remote control unit, you can operate the unit with the buttons on the unit.
- 15 DX/LOCAL selector (US, Canada)
ST/MONO (FM) (stereo/monaural FM) selector (Other country)
- 16 + SCAN - (tuning) button
- 17 ENTER button
- 18 $\Rightarrow \bullet \Leftarrow$ MODE (tape transport) selector
- 19 Battery compartment lid (for a rechargeable battery)
- 20 Battery connecting points
- 21 $\square\square$ Dolby NR (Dolby noise reduction) (ON/OFF) selector
- 22 REMOTE ON/OFF (plug selector) switch
- 23 Battery compartment for a button battery
- 24 \textcircled{B} (radio on/band selector) button
- 25 $\textcircled{1}$ (preset number) selector
- 26 \blacksquare (stop/radio off) button
- 27 REW (rewind) button
- 28 FF (fast-forward) button
- 29 \blacktriangle (playback/tape transport direction change) button
- 30 VOL (volume) control
- 31 HOLD switch
- 32 HOLD indicator
- 33 Micro plug



About the ear receiver with remote control unit

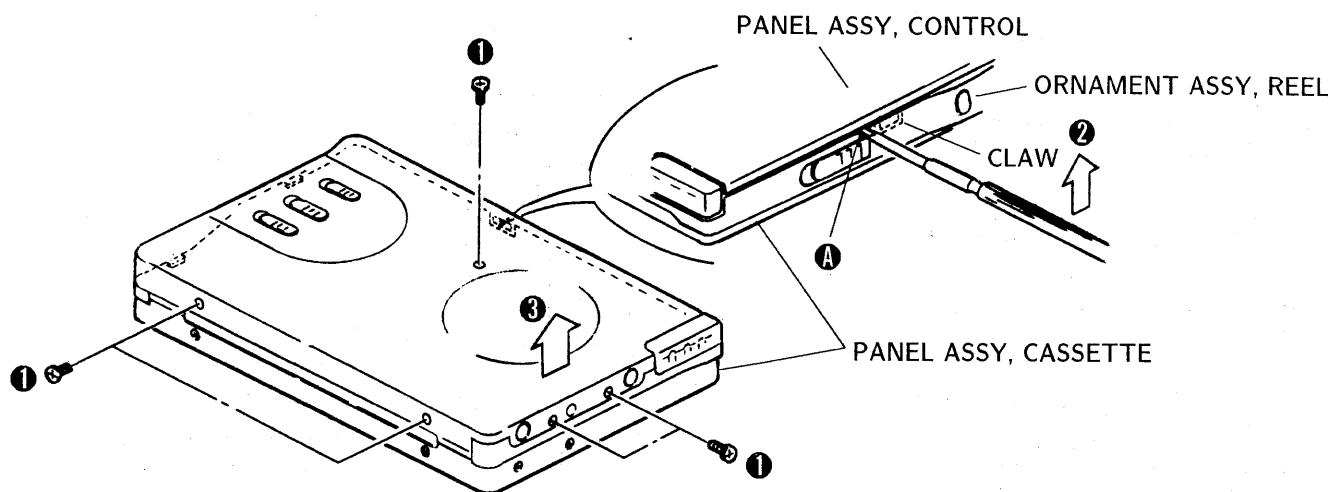
- The supplied ear receiver with remote control unit is to be used only with this unit.
- This unit cannot be operated with ear receivers supplied to other models though they may have the same plugs as that of the ear receiver supplied to this unit. Also other models cannot be operated with the ear receiver supplied to this unit. (But sound can be heard in either case.)
- Never plug in the micro plug into the Ω /REMOTE jack of the unit.
- Be sure to plug in the micro plug firmly, never pull it by the cord in order to detach it from the remote control unit.

SECTION 3 DISSASSEMBLY

3-1. PANEL ASSY, CONTROL REMOVAL

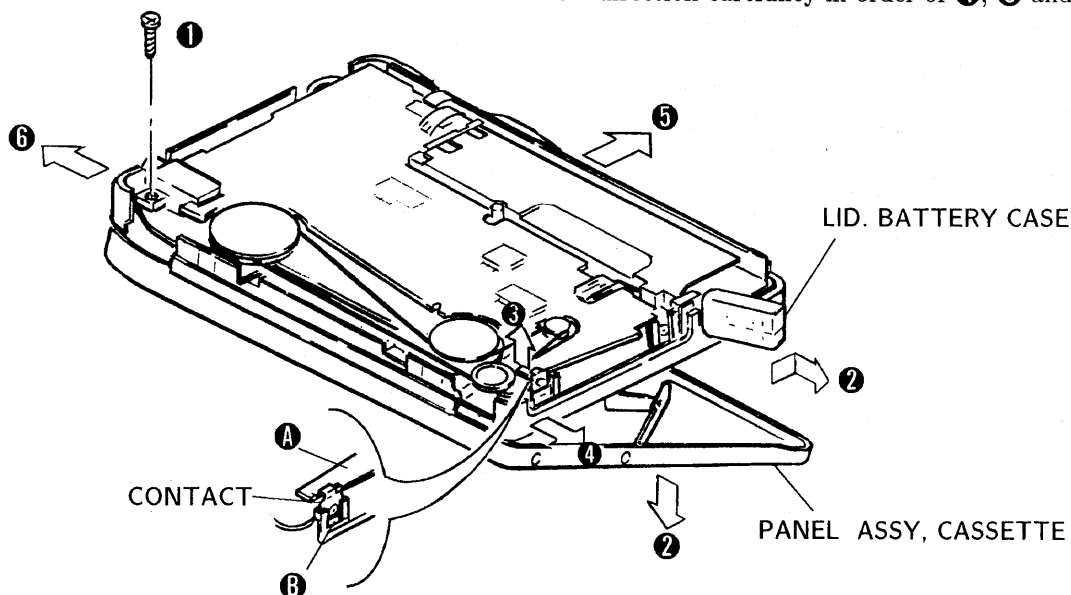
- ❶ Remove five SCREW, M1.4
- ❷ Insert 1.4mm flat-blade precision screwdriver vertically into clearance between PANEL ASSY, CONTROL and ORNAMENT ASSY, REEL (portion A).

Then, pull the precision screwdriver to the allow to release the PANEL ASSY, CONTROL from ORNAMENT ASSY, REEL.



3-2. ORNAMENT ASSY, CONTROL REMOVAL

- ❶ Remove SCREW, M1.4×3.5
- ❷ Open the PANEL ASSY, CASSETTE and also release the LID, BATTERY CASE.
- ❸ Pull up portion A printed wiring board to the allow direction carefully for release the CONTACT plate from portion B.
- ❹ ❺ ❻ Release the ORNAMENT ASSY, REEL to allow direction carefullly in order of ❹, ❺ and ❻.



SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

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

playback head	rubber belts
capstan	idlers
pinch roller	
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	20 - 40 g-cm (0.28 - 0.55 oz-inch)
FWD Back Tension		1.0 - 4 g-cm (0.02 - 0.04 oz-inch)
REV	CQ-102RB	20 - 40 g-cm (0.28 - 0.55 oz-inch)
REV Back Tension		1.0 - 3.5 g-cm (0.02 - 0.04 oz-inch)
FF	CQ-201B	more than 50 g-cm (more than 0.70 oz-inch)
REW		more than 50 g-cm (more than 0.70 oz-inch)

Tape Pulling Force Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 35 g
REV	CQ-403R	more than 35 g

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Power supply voltage : 1.3V
2. Switch position

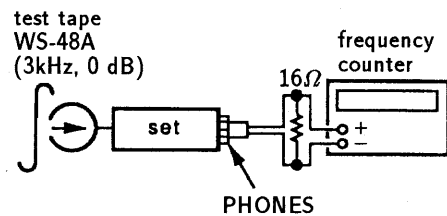
DOLBY NR switch	: OFF
DBB switch	: OFF

Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

TAPE SPEED ADJUSTMENT

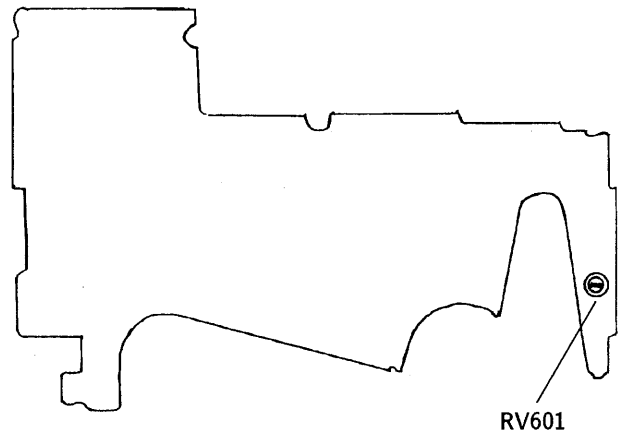
Procedure :



1. Play back WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads $3,000 \pm 15\text{Hz}$.
2. Play back WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.5% from the reading in step 1.

Adjustment Parts Location Diagram :

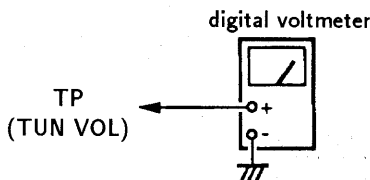
AUDIO BOARD — SIDE B —



Radio Section

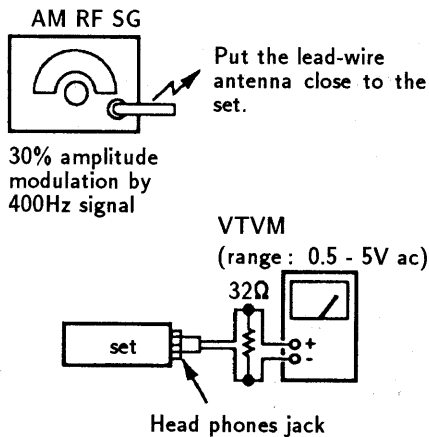
AM SECTION

BAND switch : AM



AM TUNING VOLTAGE ADJUSTMNET	
Adjust for following values on digital voltmeter	
Display indication	AM (530kHz), < 531kHz> , [522kHz]
Digital voltmeter reading	1.00±0.03V
Adjustment part	T2

AM Tracking Adjustment



- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

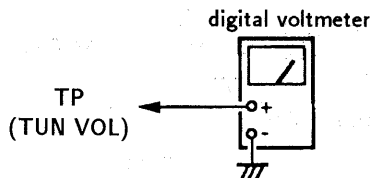
AM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
Display indication	(630kHz), < 621kHz> , [621kHz]	AM (1490kHz), < 1395kHz> , [1395kHz]
SG frequency		
Adjustment part	L8	CT3

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
Display indication	AM (1,710kHz), < 1,602kHz> , [1,611kHz]
SG frequency	
Adjustment part	T1

FM SECTION

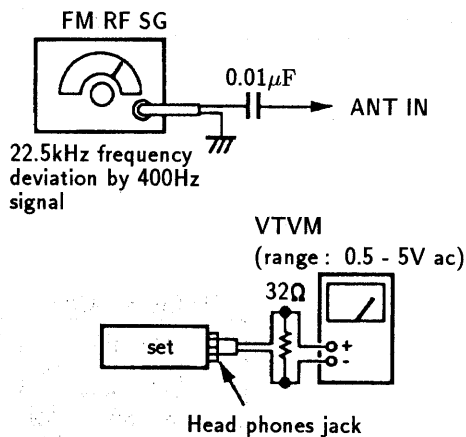
FM Tuning Voltage Adjustment

BAND switch : FM



FM TUNING VOLTAGE ADJUSTMNET	
Adjust for following values on digital voltmeter	
Display indication	FM 87.5MHz
Digital voltmeter reading	3.50±0.03V
Adjustment part	L4

FM Tracking Adjustment

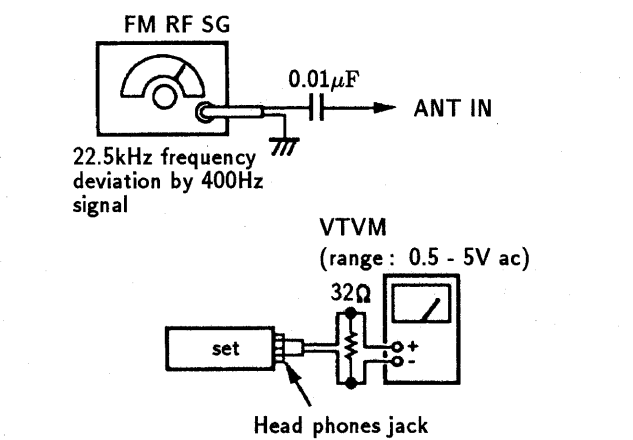


- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
Display indication	FM 87.5MHz	FM 108.00MHz
SG frequency	87.5MHz	108.00MHz
Adjustment part	L3	CT2

() : US, Canadian < > : AEP, E, UK [] : Italian

FM DET Adjustment

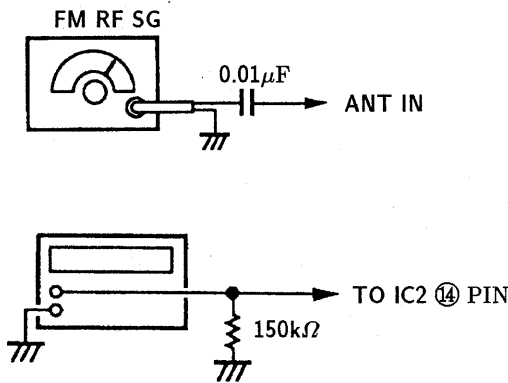


FM DET ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
Display indication	FM 87.5MHz
SG frequency	87.5MHz
Adjustment part	T4

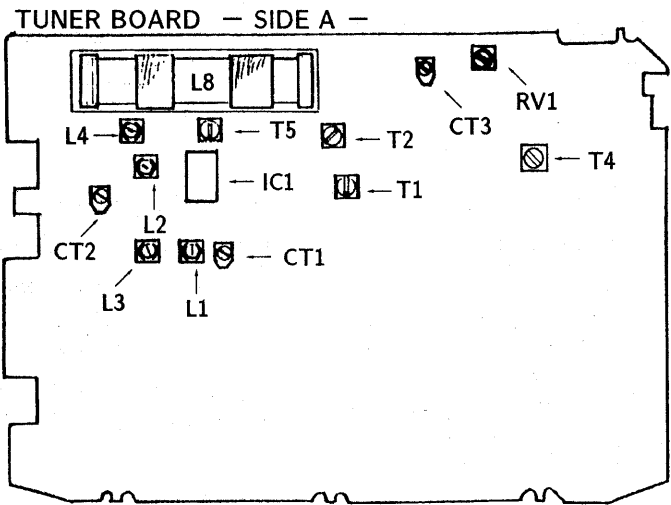
VCO Adjustment

Procedure :

BAND switch : FM (ST) : AEP, E, UK, Italian
FM (DX) : US, Canadian



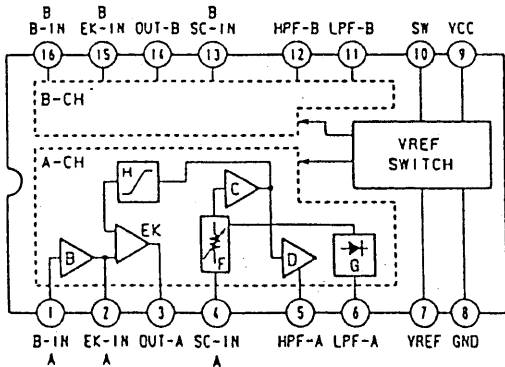
1. Tune the set to 87.50MHz
2. Adjust RV1 for 19kHz \pm 0.05kHz on the counter.



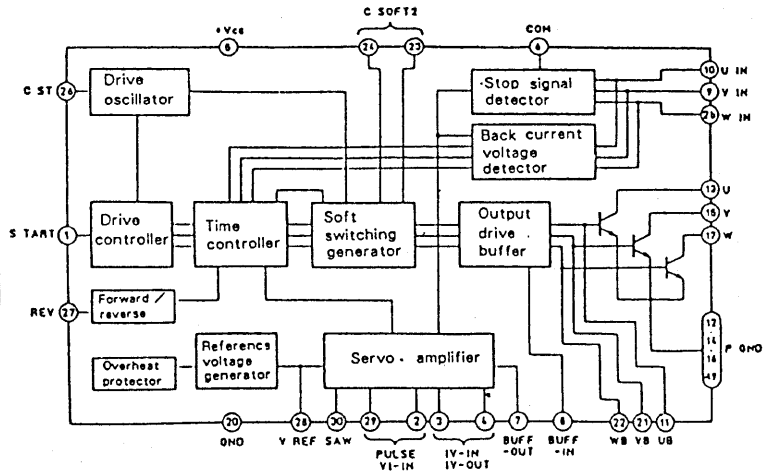
SECTION 5 DIAGRAMS

• IC Block Diagrams

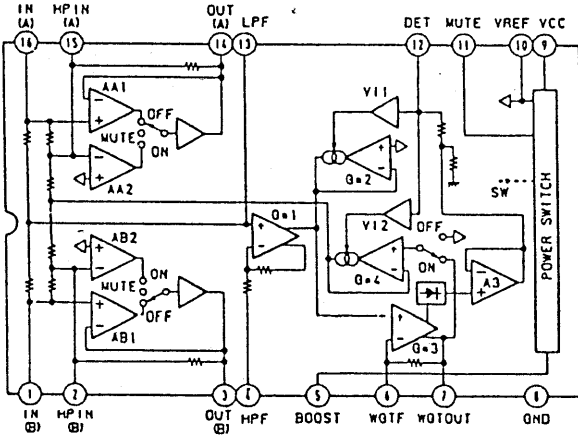
IC302 TA7793FN



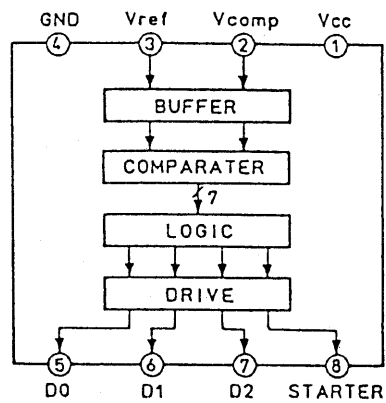
IC601 TLP326ADB



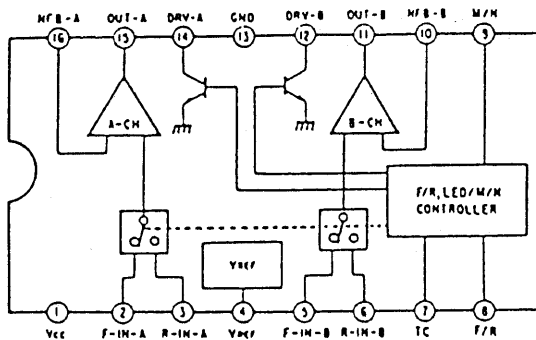
IC303 NJM2106M



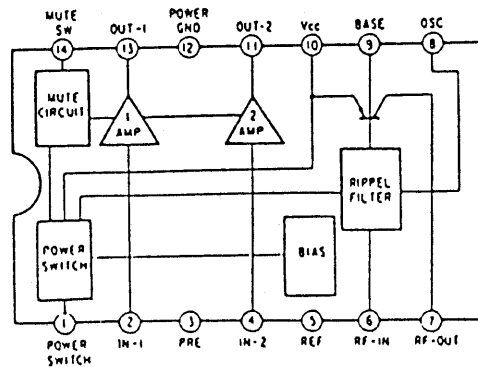
IC701 CXA1405M



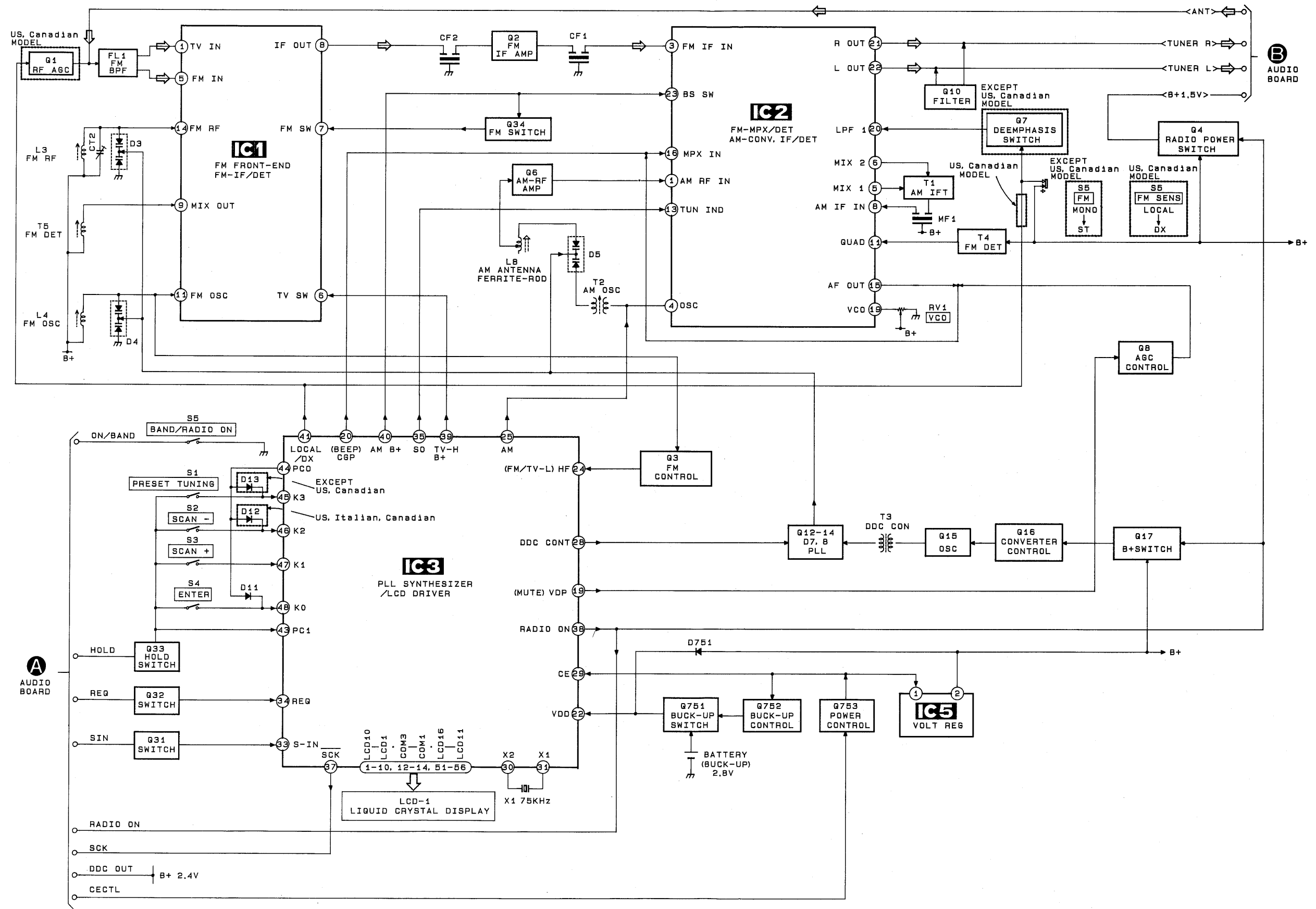
IC301 TA7795F



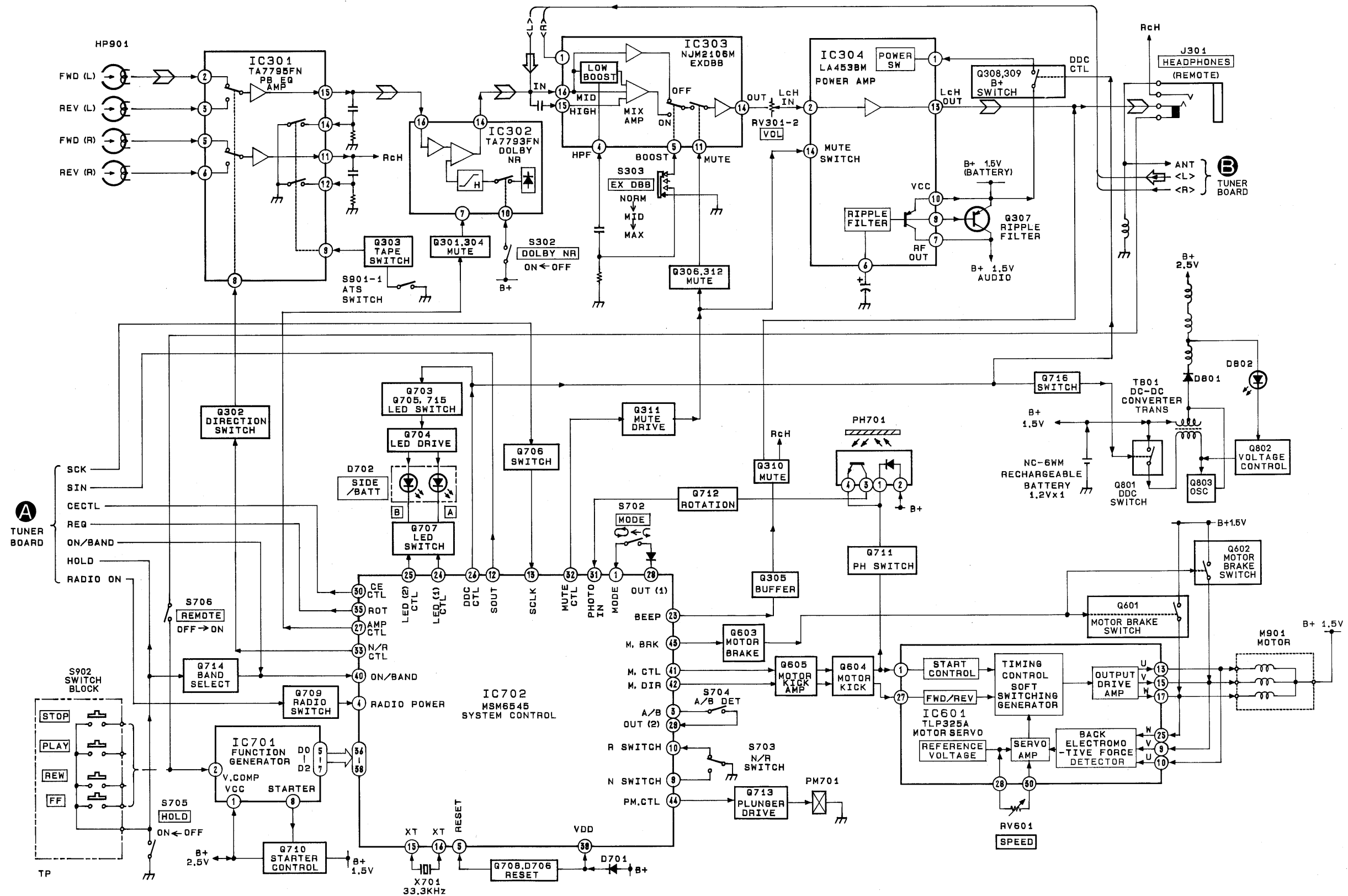
IC304 LA4538M



5-1. TUNER SECTION BLOCK DIAGRAM



5-2. AUDIO SECTION BLOCK DIAGRAM



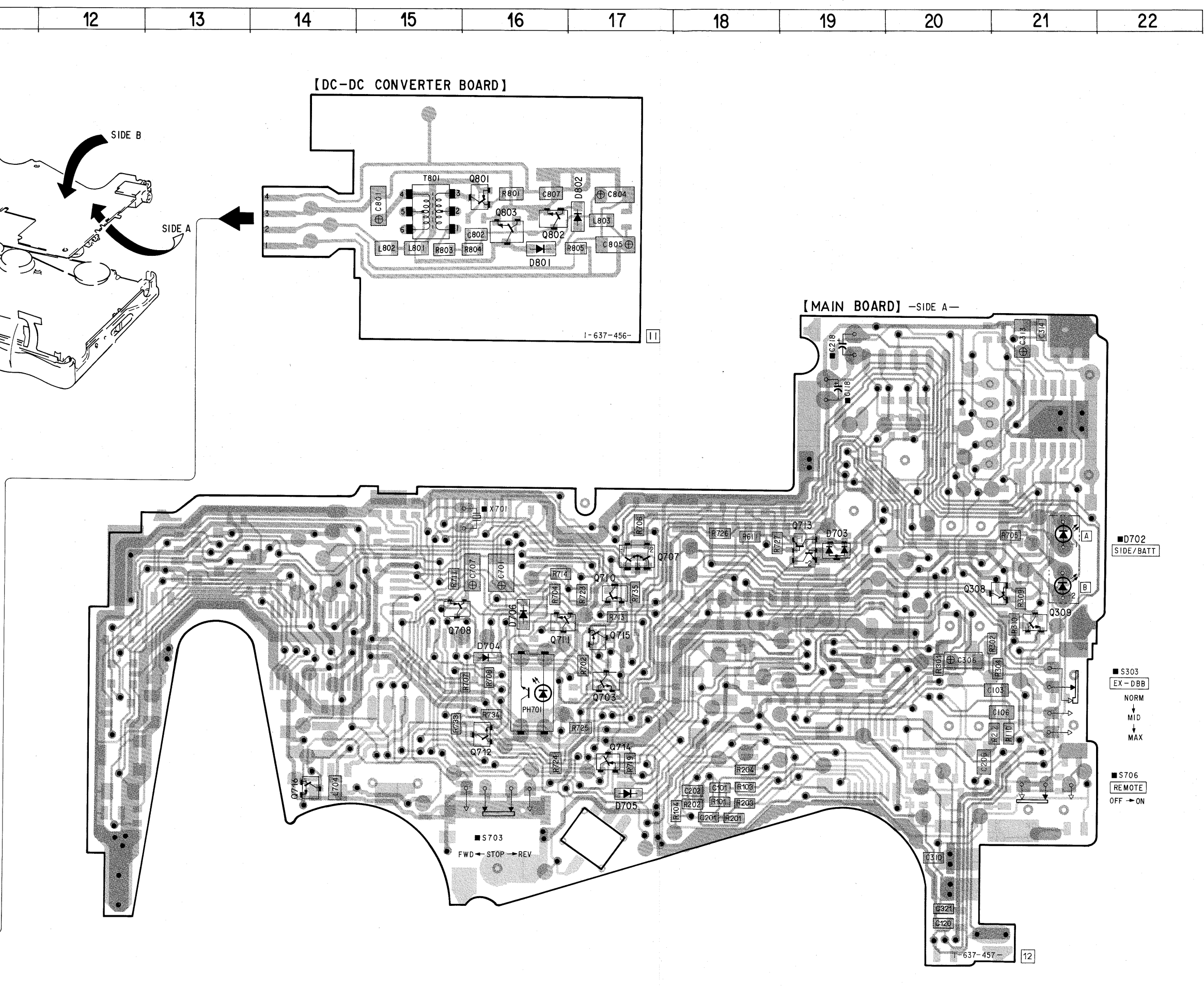
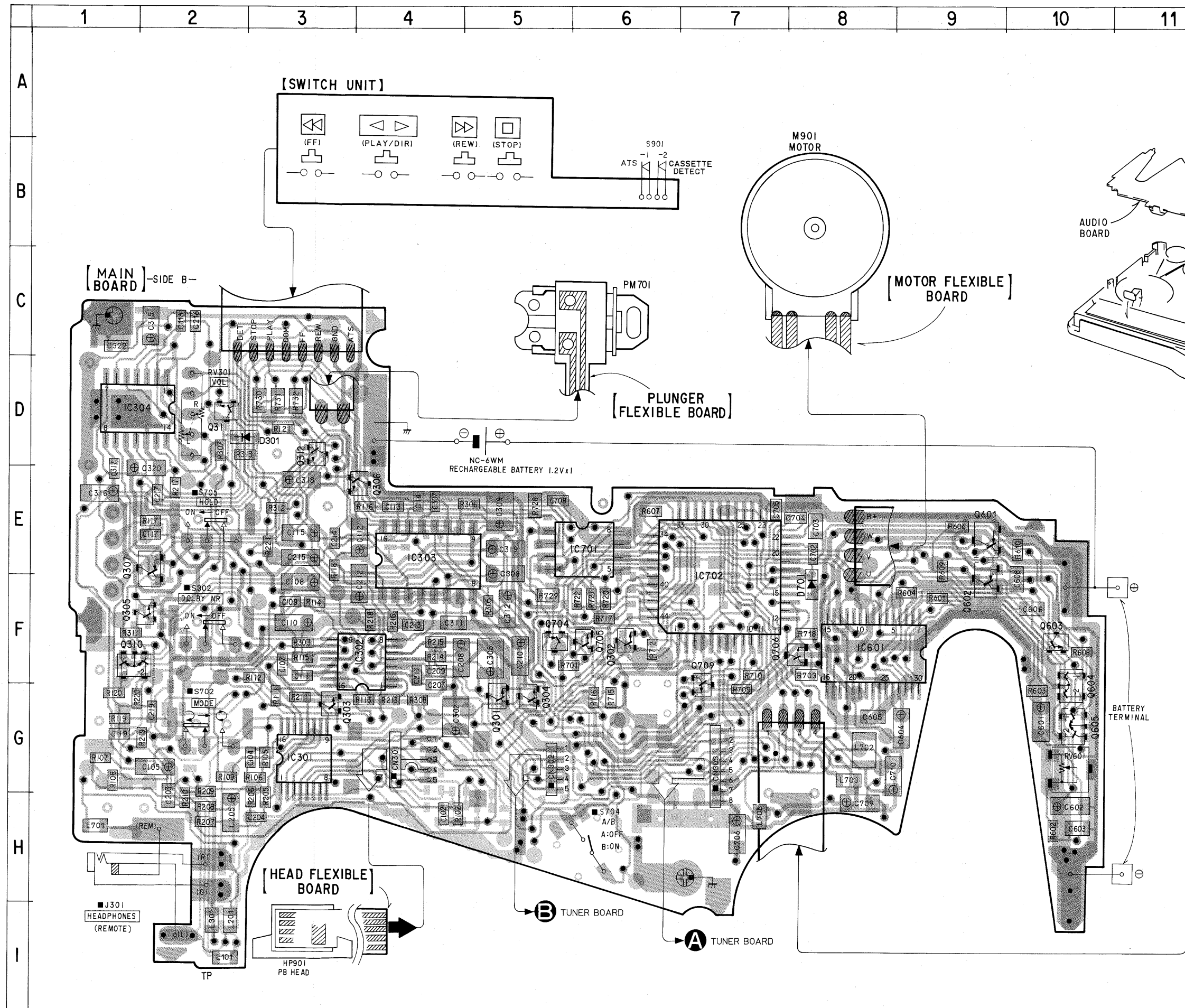
5-3. AUDIO SECTION PRINTED WIRING BOARDS

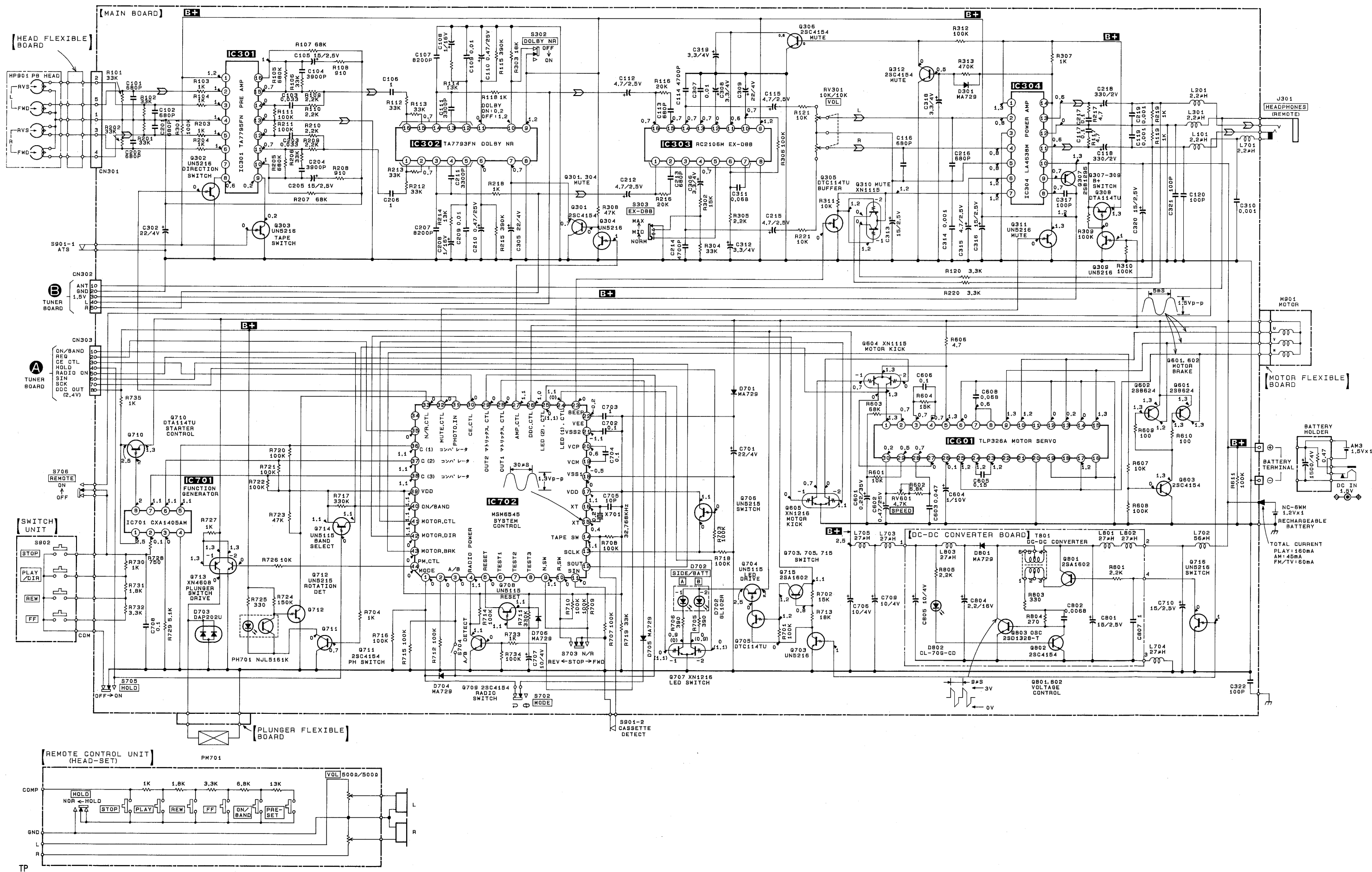
• Semiconductor Location

Ref. No.	Location
D301	D-3
D701	F-8
D702	E-21
D703	E-19
D704	F-16
D705	H-17
D706	F-16
D801	C-16
D802	B-17
IC301	G-3
IC302	F-4
IC303	E-4
IC304	D-1
IC601	F-8
IC701	E-6
IC702	F-7
Q301	G-5
Q302	F-6
Q303	G-3
Q304	G-5
Q305	F-2
Q306	E-4
Q307	E-2
Q308	F-21
Q309	F-21
Q310	F-1
Q311	D-2
Q312	D-3
Q601	E-9
Q602	F-9
Q603	F-10
Q604	G-10
Q605	G-10
Q703	G-17
Q704	F-5
Q705	F-6
Q706	F-8
Q707	E-17
Q708	F-16
Q709	G-7
Q710	F-17
Q711	F-16
Q712	G-16
Q713	E-19
Q714	G-17
Q715	F-17
Q716	H-14
Q801	B-16
Q802	B-16
Q803	B-16

Note:

- : parts mounted on the conductor side.
- : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

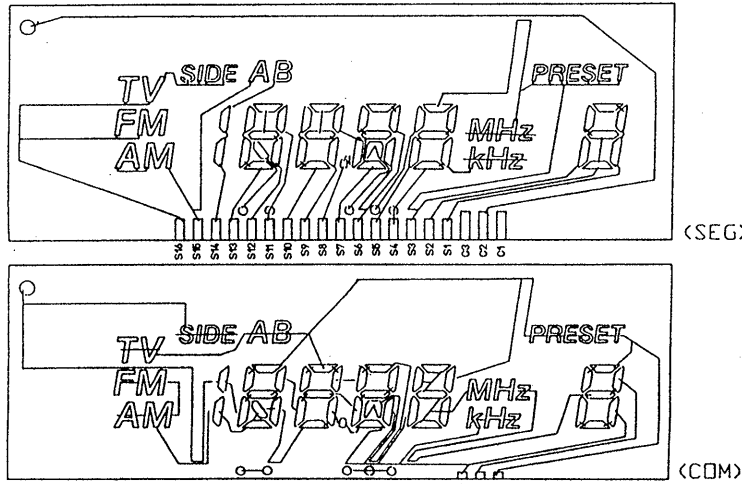




Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- **B+** : B+ Line.
- **ADJ** : adjustment for repair.
- Power voltage is dc 1.3 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- () : AM
- Voltages are taken with a VOM (10 M Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- \Rightarrow : FM

• LED1 INTERNAL CONNECTION

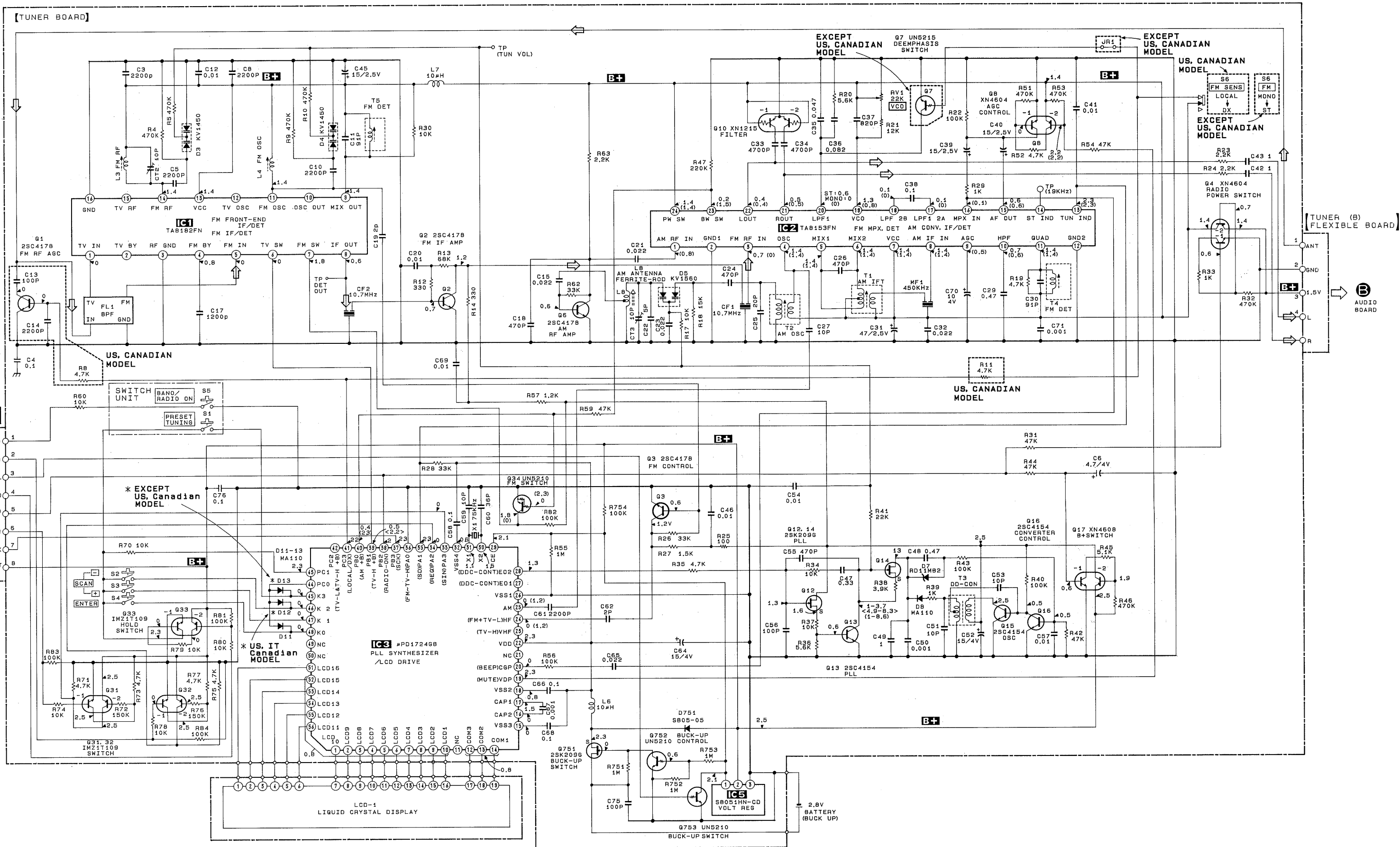


(SEG)

(COM)

[TUNER (A) FLEXIBLE BOARD]

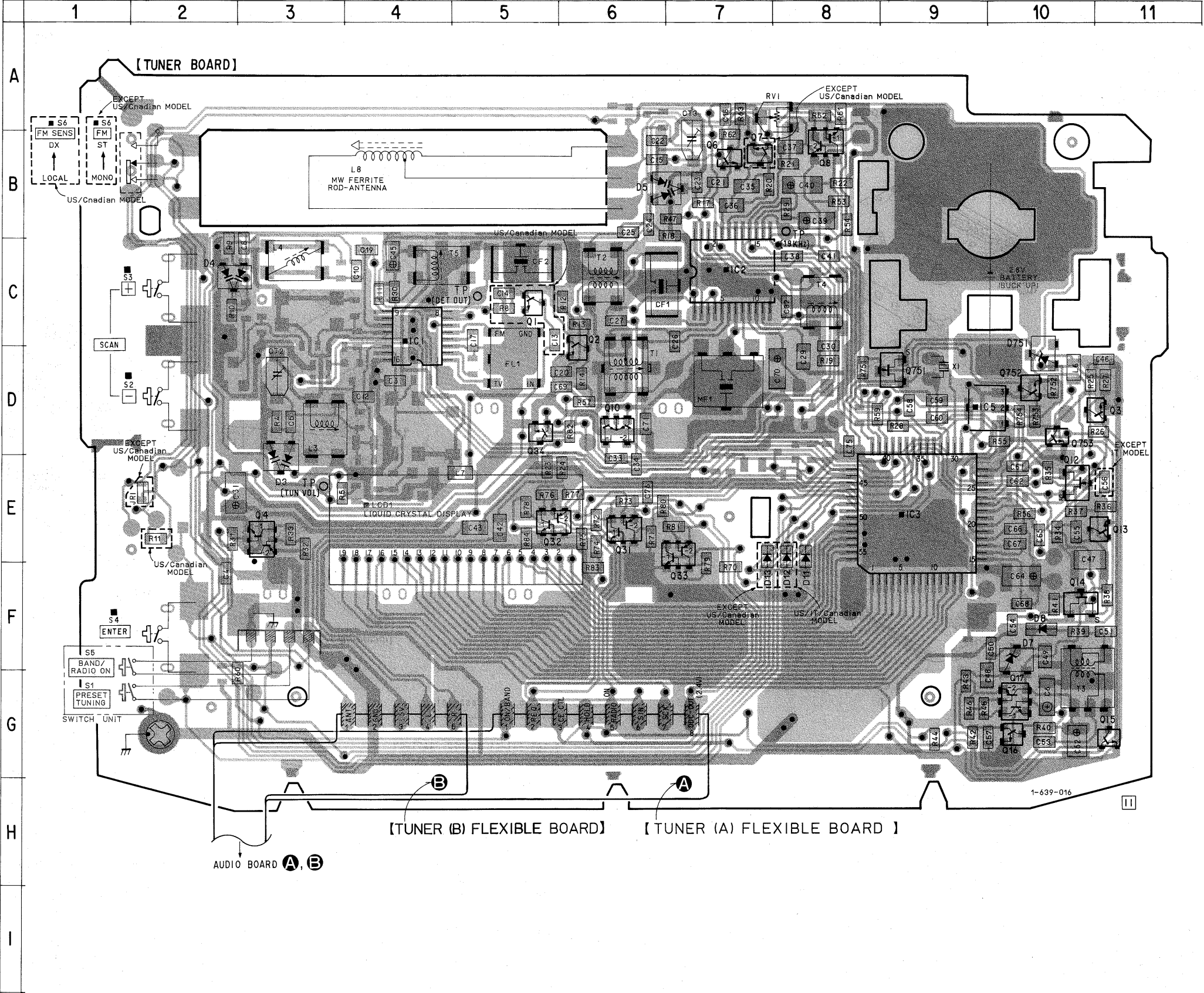
A AUDIO BOARD



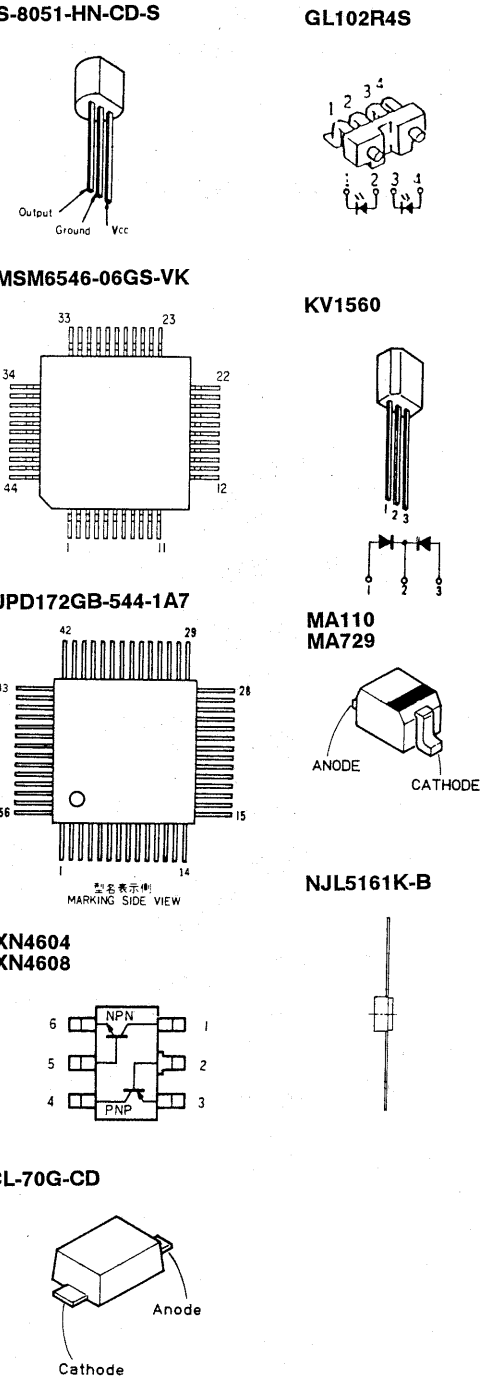
5-6. TUNER SECTION PRINTED WIRING BOARD

• Semiconductor Location

Ref. No.	Location
D3	E-3
D4	C-2
D5	B-6
D7	F-10
D8	F-10
D11	E-8
D12	E-8
D13	E-7
D751	D-10
IC1	C-4
IC2	
IC3	E-9
IC5	D-10
Q1	C-5
Q2	D-11
Q3	C-6
Q4	E-3
Q6	B-7
Q7	B-7
Q8	D-6
Q10	E-10
Q12	E-11
Q13	F-10
Q14	G-11
Q15	G-10
Q16	G-10
Q17	E-6
Q31	E-5
Q32	E-7
Q33	D-5
Q34	D-9
Q751	D-10
Q752	D-10
Q753	E-5



• Semiconductor Lead Layouts



Note:

- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ○ : Pattern of the rear side.

SECTION 6 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) ... (RED)

↑ ↑
Parts Color Cabinet's Color

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

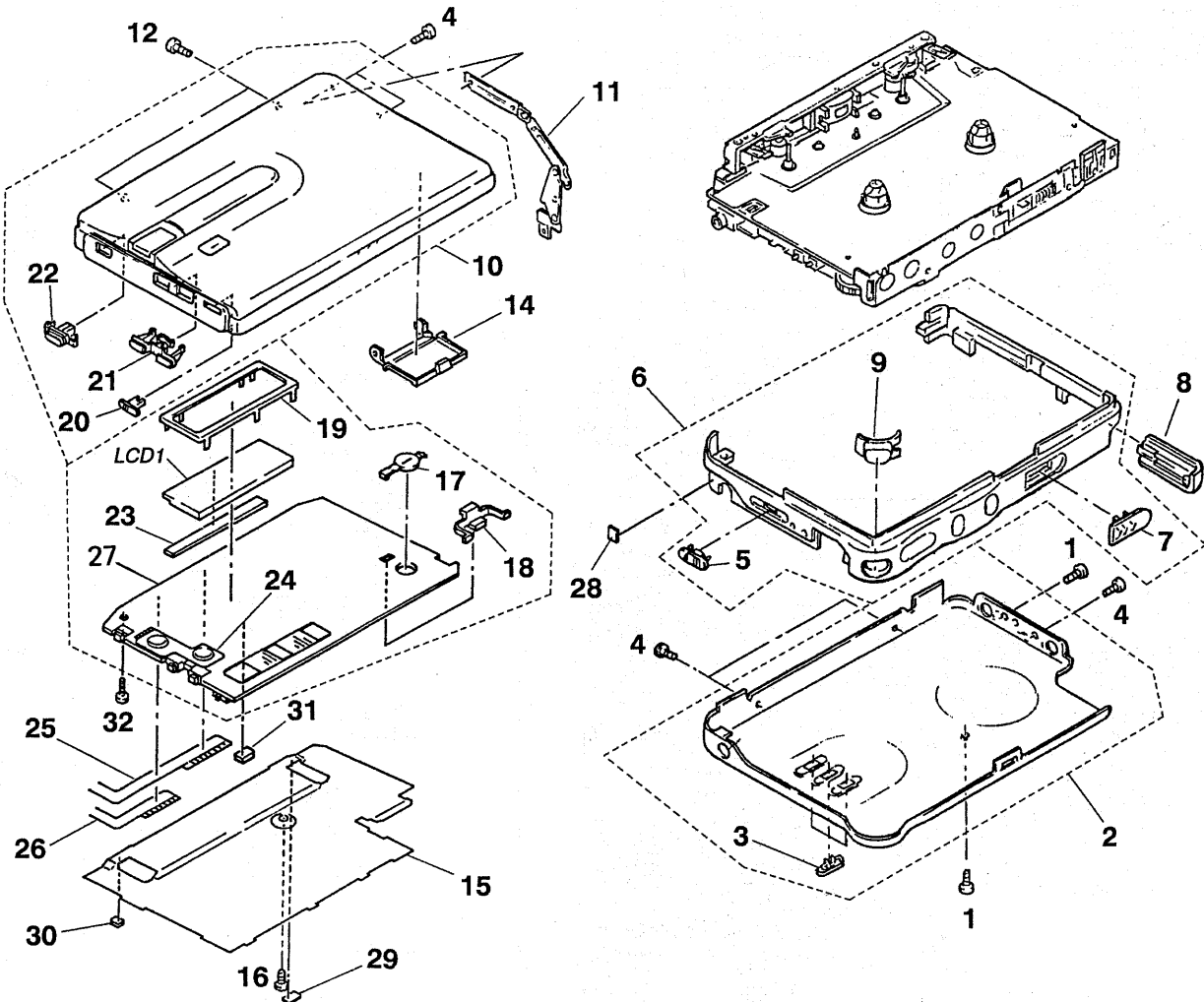
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

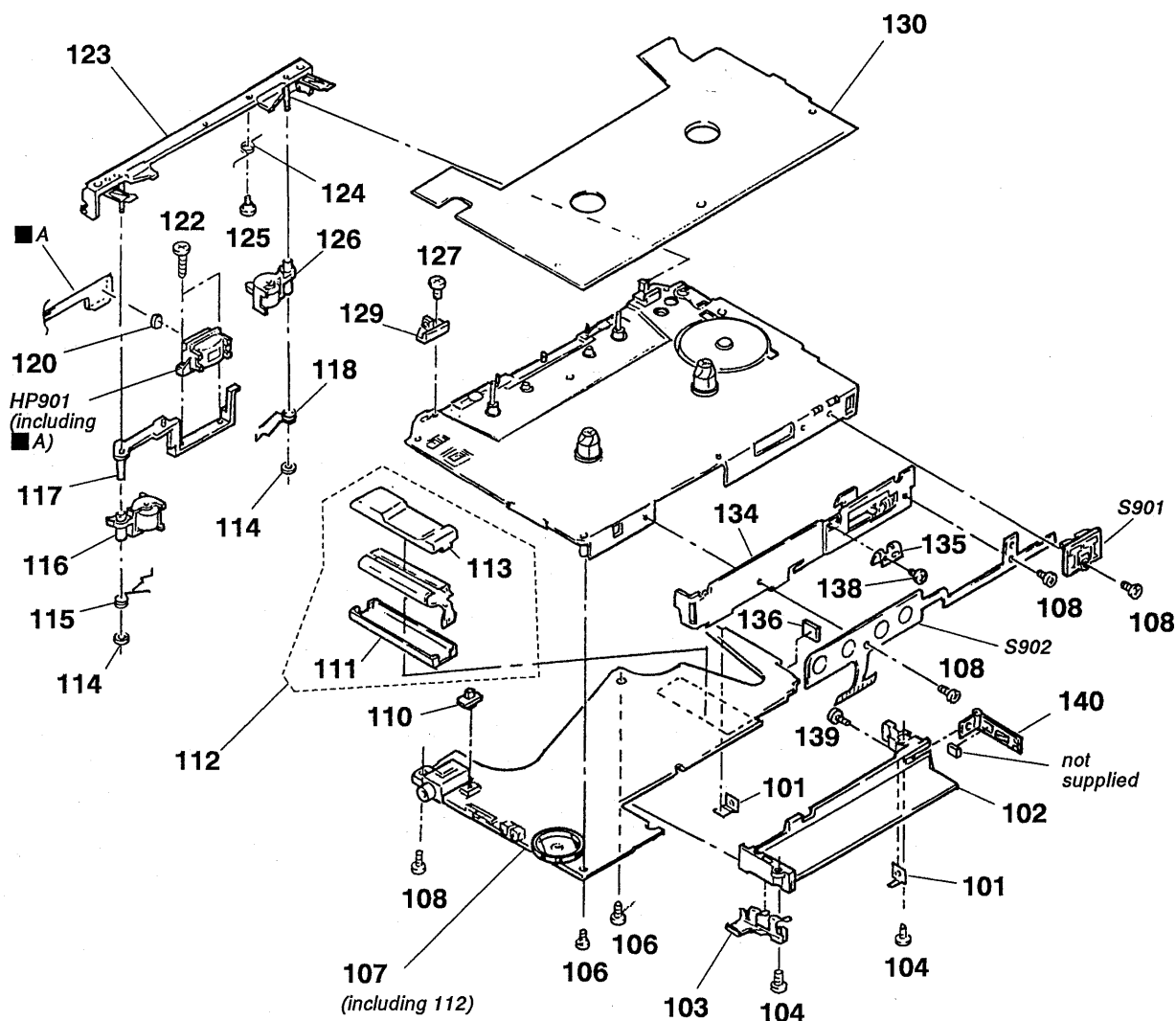
(1) CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-704-197-13	SCREW (M1.4X2.0), LOCKING	
2	X-3363-070-1	PANEL ASSY (G), CONTROL (GRAY) ... (GRAY)	
2	X-3363-071-1	PANEL ASSY (L), CONTROL (BLUE) ... (BLUE)	
2	X-3363-069-1	PANEL ASSY (B), CONTROL (BLK) ... (BLK)	
3	3-365-623-01	KNOB (DOLBY)	
4	3-704-197-03	SCREW (M1.4X1.6), LOCKING	
5	3-365-624-01	KNOB (DBB)	
6	X-3362-538-1	ORNAMENT ASSY (CF-B), REEL	
7	3-365-637-01	KNOB (OPEN)	
8	3-365-644-01	LID, BATTERY CASE	
9	3-365-651-01	BUTTON (STOP-CF)	
10	X-3363-072-1	PANEL ASSY (B), CASSETTE (BLACK) ... (BLACK) (AEP, IT, E)	
10	X-3363-073-1	PANEL ASSY (G), CASSETTE (GRAY) ... (GRAY) (AEP, UK, E)	
10	X-3363-074-1	PANEL ASSY (L), CASSETTE (BLUE) ... (BLUE) (E)	
10	X-3363-079-1	PANEL ASSY (B), CASSETTE (BLACK) ... (BLACK) (Canadian)	
10	X-3363-084-1	PANEL ASSY (G), CASSETTE (GRAY) ... (GRAY) (US)	
11	X-3362-516-1	ARM ASSY, CLICK	
12	3-365-630-11	SCREW (M1.4)	
14	3-365-650-01	LID (BACK UP), BATTERY CASE	
15	X-3362-514-1	COVER ASSY	

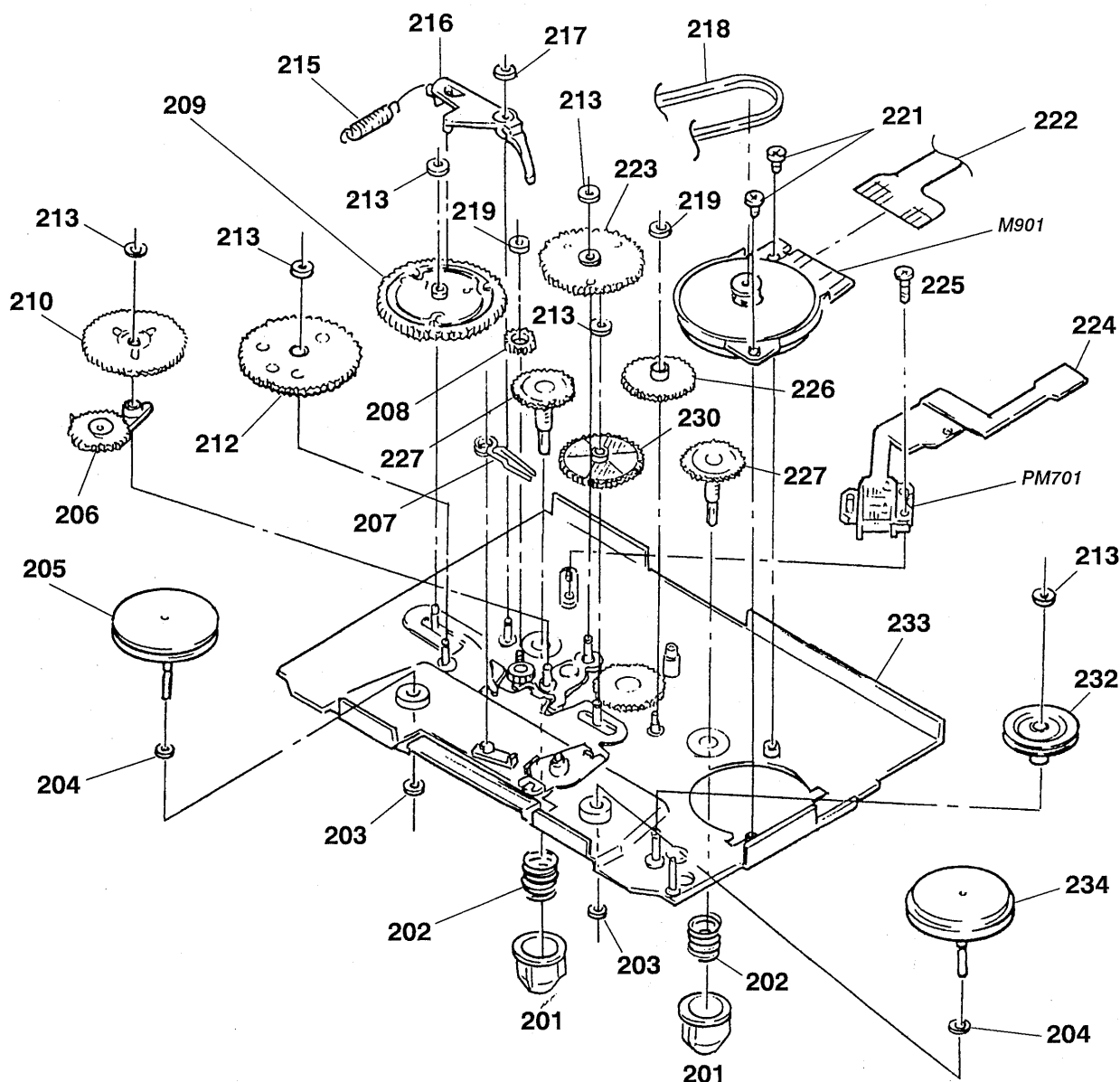
Ref. No.	Part No.	Description	Remark
16	3-318-382-61	SCREW (1.7X2.5), TAPPING	
17	3-350-955-01	TERMINAL BOARD (D), BATTERY	
18	3-350-954-01	TERMINAL BOARD (C), BATTERY	
19	3-365-648-01	CASE (LCD), SHIELD	
20	3-365-649-01	KNOB (M/S)	
21	3-365-654-01	BUTTON (SCAN)	
22	3-365-655-01	BUTTON (ENTER)	
23	1-535-880-11	CONDUCTOR, CONNECTION	
24	1-466-462-11	SWITCH UNIT	
25	1-637-534-11	PC BOARD, TUNER (B) FLEXIBLE	
26	1-637-503-11	PC BOARD, TUNER (A) FLEXIBLE	
27	A-3060-388-A	TIUNER BOARD, COMPLETE (IT)	
27	A-3016-069-A	TIUNER BOARD, ASSY (US, Canadian)	
27	A-3016-067-A	TIUNER BOARD, ASSY (AEP, UK, E)	
28	* 3-317-577-01	SPACER (Z)	
29	3-553-567-00	CUSHION	
30	3-303-999-01	SPACER, RUBBER	
31	9-911-839-XX	SPACER (C)	
32	7-627-852-37	PRECISION SCREW +P1.7X1.8TYPE3	
LCD1	1-809-240-11	DISPLAY PANEL, LIQUID CRYSTAL	

(2) MECHANISM SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-365-619-01	CONTACT		122	3-704-252-21	SCREW (M1.4X3.8)	
102	3-365-647-01	HOLDER, BATTERY		123	X-3362-630-1	HOLDER ASSY (CF)	
103	3-365-618-01	TERMINAL BOARD (-)		124	3-365-769-01	SPRING (H)	
104	3-704-197-01	SCREW (M1.4X1.6), LOCKING		125	3-328-436-02	SHAFT, LEVER (C), REC	
106	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK		126	X-3362-560-1	PUNCH LEVER (R) ASSY	
107	A-3015-953-A	AUDIO BOARD, COMPLETE		127	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
108	3-366-521-51	SCREW (M1.4X3.5)		129	3-365-789-01	GUIDE (N), HOLDER	
110	3-365-612-01	KNOB (RMT)		130	3-365-614-01	COVER, MD	
111	3-365-632-01	CASE (B), SHIELD		134	X-3362-517-1	BRACKET ASSY	
112	A-3041-428-A	CONVERTER ASSY, DC/DC		135	3-365-615-01	SPRING, CASSETTE RETAINER	
113	3-365-610-01	CASE (A), SHIELD		136	9-911-840-XX	SPACER, RUBBER	
114	3-349-859-11	WASHER		138	3-366-892-01	SCREW (M1.4X1.1)	
115	3-365-761-01	SPRING (P-N)		139	3-349-825-61	SCREW	
116	X-3362-559-1	PINCH LEVER (N) ASSY		140	X-3362-515-1	TERMINAL BOARD ASSY, BATTERY	
117	3-365-797-01	LEVER, HEAD		HP901	1-543-789-11	HEAD, MAGNETIC (PLAYBACK)	
118	3-365-762-01	SPRING (P-R)		S901	1-572-580-11	SWITCH, LEAF (ATS/DET)	
120	* 3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE		S902	1-466-454-11	SWITCH UNIT	

(3) MECHANISM SECTION-2



Ref. No.	Part No.	Description	Remark
201	3-365-801-01	TABLE, REEL	
202	3-366-058-01	SPRING, COMPRESSION	
203	3-331-007-21	WASHER	
204	3-354-407-11	WASHER	
205	X-3362-552-1	WHEEL (N) ASSY, CAPSTAN	
206	X-3362-555-1	FR ASSY	
207	3-365-785-01	SPRING (NR SELECTION)	
208	3-365-783-01	GEAR (E)	
209	3-365-800-01	GEAR, CAM	
210	3-365-754-01	GEAR (M)	
212	3-365-755-01	GEAR (K)	
213	3-349-859-11	WASHER	
215	3-365-766-01	SPRING (TRIGGER), TENSION	
216	3-365-802-01	LEVER (A), TRIGGER	
217	3-349-859-01	WASHER	

Ref. No.	Part No.	Description	Remark
218	3-365-765-01	BELT	
219	3-361-258-01	BUSHING (A)	
221	3-331-047-03	SCREW (M1.4X1.8), SPECIAL HEAD	
222	1-637-458-11	PC BOARD, MOTOR FLEXIBLE	
223	X-3362-554-1	CLUTCH ASSY	
224	1-637-459-11	PC BOARD, PLUNGER FLEXIBLE	
225	3-361-216-51	SCREW (M1.4X3.5)	
226	3-365-751-01	GEAR (A)	
227	3-365-750-01	GEAR (REEL)	
230	X-3362-553-1	GEAR (B) ASSY	
232	3-365-760-01	PULLEY (REVERSE)	
233	X-3362-562-1	CHASSIS ASSY	
234	X-3362-551-1	WHEEL (R) ASSY, CAPSTAN	
M901	1-541-856-11	MOTOR	
PM701	1-454-529-11	SOLENOID, PLUNGER	

SECTION 7

ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- **CAPACITORS**
uF: μ F
- **COILS**
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

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

When including parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-3015-953-A	AUDIO BOARD, COMPLETE		C206	1-164-346-11	CERAMIC CHIP 1uF	16V
		*****		C207	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V
	A-3016-044-A	DC-DC CONVERTER BOARD, COMPLETE		C208	1-135-091-00	TANTALUM CHIP 1uF	20% 16V
		*****		C209	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
	3-365-610-01	CASE (A), SHIELD		C210	1-135-145-11	TANTALUM CHIP 0.47uF	10% 25V
	3-365-632-01	CASE (B), SHIELD					
		< CAPACITOR >		C211	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V
C101	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C212	1-135-218-11	TANTAL CHIP 4.7uF	20% 2.5V
C102	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C213	1-162-963-11	CERAMIC CHIP 680PF	10% 50V
C103	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	C214	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C104	1-164-173-11	CERAMIC CHIP 0.0039uF	10% 50V	C215	1-135-218-11	TANTAL CHIP 4.7uF	20% 2.5V
C105	1-135-219-11	TANTAL CHIP 15uF	20% 2.5V				
				C216	1-162-963-11	CERAMIC CHIP 680PF	10% 50V
C106	1-164-346-11	CERAMIC CHIP 1uF	16V	C217	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C107	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V	C218	1-126-236-11	ELECT 330uF	20% 2V
C108	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	C219	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C109	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C302	1-135-202-21	TANTAL CHIP 22uF	20% 4V
C110	1-135-145-11	TANTALUM CHIP 0.47uF	10% 25V				
				C305	1-135-202-21	TANTAL CHIP 22uF	20% 4V
C111	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C306	1-135-221-11	TANTAL CHIP 3.3uF	20% 4V
C112	1-135-218-11	TANTAL CHIP 4.7uF	20% 2.5V	C307	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C113	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C308	1-135-221-11	TANTAL CHIP 3.3uF	20% 4V
C114	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	C309	1-135-202-21	TANTAL CHIP 22uF	20% 4V
C115	1-135-218-11	TANTAL CHIP 4.7uF	20% 2.5V				
				C310	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C116	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C311	1-163-833-00	CERAMIC CHIP 0.068uF	25V
C117	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C312	1-135-221-11	TANTAL CHIP 3.3uF	20% 4V
C118	1-126-236-11	ELECT 330uF	20% 2V	C313	1-135-219-11	TANTAL CHIP 15uF	20% 2.5V
C119	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C314	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C120	1-162-953-11	CERAMIC CHIP 100PF	5% 50V				
				C315	1-135-218-11	TANTAL CHIP 4.7uF	20% 2.5V
C201	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C316	1-135-219-11	TANTAL CHIP 15uF	20% 2.5V
C202	1-162-963-11	CERAMIC CHIP 680PF	10% 50V	C317	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
C203	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	C318	1-135-221-11	TANTAL CHIP 3.3uF	20% 4V
C204	1-164-173-11	CERAMIC CHIP 0.0039uF	10% 50V	C319	1-135-221-11	TANTAL CHIP 3.3uF	20% 4V
C205	1-135-219-11	TANTAL CHIP 15uF	20% 2.5V				
				C320	1-135-219-11	TANTAL CHIP 15uF	20% 2.5V
				C321	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
				C322	1-162-953-11	CERAMIC CHIP 100PF	5% 50V
				C601	1-135-072-21	TANTALUM CHIP 0.22uF	10% 35V

AUDIO

Ref.No.	Part No.	Description	Remark		
C602	1-135-145-11	TANTALUM CHIP	0.47uF	10%	25V
C603	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C604	1-135-208-11	TANTAL CHIP	1uF	20%	10V
C605	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C606	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C608	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C701	1-135-202-21	TANTAL CHIP	22uF	20%	4V
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C703	1-164-346-11	CERAMIC CHIP	1uF		16V
C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C705	1-162-941-11	CERAMIC CHIP	10PF	0.5PF	50V
C706	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C707	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C709	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C710	1-135-219-11	TANTAL CHIP	15uF	20%	2.5V
C801	1-135-219-11	TANTAL CHIP	15uF	20%	2.5V
C802	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C804	1-135-179-21	TANTAL CHIP	2.2uF	20%	16V
C805	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C807	1-164-346-11	CERAMIC CHIP	1uF		16V
< CONNECTOR >					
CN301	1-569-252-21	HOUSING, CONNECTOR 5P			
CN302	1-569-252-21	HOUSING, CONNECTOR 5P			
CN303	1-568-558-21	HOUSING, CONNECTOR (FPC) 8P			
< DIODE >					
D301	8-719-420-51	DIODE MA729			
D701	8-719-420-51	DIODE MA729			
D702	1-808-123-21	DIODE GL102R4S (BLOCK) (LED) (SIDE/BATT)			
D703	8-719-941-09	DIODE DAP202U			
D704	8-719-420-51	DIODE MA729			
D705	8-719-420-51	DIODE MA729			
D706	8-719-420-51	DIODE MA729			
D801	8-719-420-51	DIODE MA729			
D802	8-719-975-06	DIODE CL-70G-CD (LED)			
< IC >					
IC301	8-759-230-91	IC TA7795FN			
IC302	8-759-230-88	IC TA7793FN			
IC303	8-759-512-77	IC RC2106M			
IC304	8-759-805-02	IC LA4538M			
IC601	8-759-996-13	IC TLP326ADB			
IC701	8-752-051-55	IC CXA1405AM			
IC702	8-759-511-04	IC MSM6545-06GS-VK			
< JACK >					
J301	1-580-530-11	JACK 1P (HEADPHONES/REMOTE)			

Ref.No.	Part No.	Description	Remark
< COIL >			
L101	1-410-997-31	INDUCTOR CHIP	2.2uH
L201	1-410-997-31	INDUCTOR CHIP	2.2uH
L301	1-410-997-31	INDUCTOR CHIP	2.2uH
L701	1-410-997-31	INDUCTOR CHIP	2.2uH
L702	1-410-213-51	INDUCTOR CHIP	56uH
L703	1-412-011-31	INDUCTOR CHIP	27uH
L704	1-412-011-31	INDUCTOR CHIP	27uH
L705	1-412-011-31	INDUCTOR CHIP	27uH
L801	1-412-011-31	INDUCTOR CHIP	27uH
L802	1-412-011-31	INDUCTOR CHIP	27uH
L803	1-412-011-31	INDUCTOR CHIP	27uH
< PHOTO INTERRUPTER >			
PH701	8-759-710-35	DIODE, PHOTO NJL5161K-B	
< TRANSISTOR >			
Q301	8-729-602-21	TRANSISTOR 2SC4154-1	
Q302	8-729-421-26	TRANSISTOR UN5216QRS	
Q303	8-729-421-26	TRANSISTOR UN5216QRS	
Q304	8-729-421-26	TRANSISTOR UN5216QRS	
Q305	8-729-905-XX	TRANSISTOR DTC114TU	
Q306	8-729-602-21	TRANSISTOR 2SC4154-1	
Q307	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q308	8-729-905-96	TRANSISTOR DTA114TU	
Q309	8-729-421-26	TRANSISTOR UN5216QRS	
Q310	8-729-403-45	TRANSISTOR XN1115	
Q311	8-729-421-26	TRANSISTOR UN5216QRS	
Q312	8-729-602-21	TRANSISTOR 2SC4154-1	
Q601	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q602	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q603	8-729-602-21	TRANSISTOR 2SC4154-1	
Q604	8-729-403-45	TRANSISTOR XN1115	
Q605	8-729-421-23	TRANSISTOR XN1216	
Q703	8-729-421-26	TRANSISTOR UN5216QRS	
Q704	8-729-420-53	TRANSISTOR UN5115	
Q705	8-729-905-XX	TRANSISTOR DTC114TU	
Q706	8-729-420-50	TRANSISTOR UN5215	
Q707	8-729-421-23	TRANSISTOR XN1216	
Q708	8-729-420-53	TRANSISTOR UN5115	
Q709	8-729-602-21	TRANSISTOR 2SC4154-1	
Q710	8-729-905-96	TRANSISTOR DTA114TU	
Q711	8-729-602-21	TRANSISTOR 2SC4154-1	
Q712	8-729-420-50	TRANSISTOR UN5215	
Q713	8-729-402-16	TRANSISTOR XN4608	
Q714	8-729-420-53	TRANSISTOR UN5115	
Q715	8-729-602-36	TRANSISTOR 2SA1602-1	

AUDIO

Ref. No.	Part No.	Description	Remark		
Q716	8-729-421-26	TRANSISTOR UN5216QRS			
Q801	8-729-602-36	TRANSISTOR 2SA1602-1			
Q802	8-729-602-21	TRANSISTOR 2SC4154-1			
Q803	8-729-400-56	TRANSISTOR 2SD1328-T			
< RESISTOR >					
R101	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R102	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R103	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R104	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R105	1-216-855-11	METAL CHIP 680K	5%	1/16W	
R106	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R107	1-216-843-11	METAL CHIP 68K	5%	1/16W	
R108	1-218-457-11	METAL GLAZE 910	5%	1/16W	
R109	1-216-825-11	METAL CHIP 2.2K	5%	1/16W	
R110	1-216-825-11	METAL CHIP 2.2K	5%	1/16W	
R111	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R112	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R113	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R114	1-216-994-11	METAL GLAZE 13K	5%	1/16W	
R115	1-216-852-11	METAL CHIP 390K	5%	1/16W	
R116	1-218-292-11	METAL GLAZE 20K	5%	1/16W	
R117	1-216-793-11	METAL GLAZE 4.7	5%	1/16W	
R118	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R119	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R120	1-216-827-11	METAL CHIP 3.3K	5%	1/16W	
R121	1-216-833-11	METAL CHIP 10K	5%	1/16W	
R201	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R202	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R203	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R204	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R205	1-216-855-11	METAL CHIP 680K	5%	1/16W	
R206	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R207	1-216-843-11	METAL CHIP 68K	5%	1/16W	
R208	1-218-457-11	METAL GLAZE 910	5%	1/16W	
R209	1-216-825-11	METAL CHIP 2.2K	5%	1/16W	
R210	1-216-825-11	METAL CHIP 2.2K	5%	1/16W	
R211	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R212	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R213	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R214	1-216-994-11	METAL GLAZE 13K	5%	1/16W	
R215	1-216-852-11	METAL CHIP 390K	5%	1/16W	
R216	1-218-292-11	METAL GLAZE 20K	5%	1/16W	
R217	1-216-793-11	METAL GLAZE 4.7	5%	1/16W	
R218	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R219	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R220	1-216-827-11	METAL CHIP 3.3K	5%	1/16W	
R221	1-216-833-11	METAL CHIP 10K	5%	1/16W	
R301	1-216-845-11	METAL CHIP 100K	5%	1/16W	

Ref. No.	Part No.	Description	Remark		
R302	1-216-835-11	METAL CHIP 15K	5%	1/16W	
R303	1-216-836-11	METAL CHIP 18K	5%	1/16W	
R304	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R305	1-216-825-11	METAL CHIP 2.2K	5%	1/16W	
R306	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R307	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R308	1-216-841-11	METAL CHIP 47K	5%	1/16W	
R309	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R310	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R311	1-216-833-11	METAL CHIP 10K	5%	1/16W	
R312	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R313	1-216-853-11	METAL CHIP 470K	5%	1/16W	
R601	1-216-833-11	METAL CHIP 10K	5%	1/16W	
R602	1-216-831-11	METAL CHIP 6.8K	5%	1/16W	
R603	1-216-843-11	METAL CHIP 68K	5%	1/16W	
R604	1-216-835-11	METAL CHIP 15K	5%	1/16W	
R606	1-216-793-11	METAL GLAZE 4.7	5%	1/16W	
R607	1-216-833-11	METAL CHIP 10K	5%	1/16W	
R608	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R609	1-216-809-11	METAL CHIP 100	5%	1/16W	
R610	1-216-809-11	METAL CHIP 100	5%	1/16W	
R611	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R701	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R702	1-216-835-11	METAL CHIP 15K	5%	1/16W	
R703	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R704	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R705	1-216-816-11	METAL CHIP 390	5%	1/16W	
R706	1-216-816-11	METAL CHIP 390	5%	1/16W	
R707	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R708	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R709	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R710	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R711	1-216-851-11	METAL CHIP 330K	5%	1/16W	
R712	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R713	1-216-836-11	METAL CHIP 18K	5%	1/16W	
R714	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R715	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R716	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R717	1-216-851-11	METAL CHIP 330K	5%	1/16W	
R718	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R719	1-216-839-11	METAL CHIP 33K	5%	1/16W	
R720	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R721	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R722	1-216-845-11	METAL CHIP 100K	5%	1/16W	
R723	1-216-841-11	METAL CHIP 47K	5%	1/16W	
R724	1-216-847-11	METAL CHIP 150K	5%	1/16W	

AUDIO

TUNER

Ref. No.	Part No.	Description	Remark		
R725	1-216-815-11	METAL CHIP	330	5%	1/16W
R726	1-216-833-11	METAL CHIP	10K	5%	1/16W
R727	1-216-821-11	METAL CHIP	1K	5%	1/16W
R728	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R729	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R730	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R731	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R732	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R733	1-216-821-11	METAL CHIP	1K	5%	1/16W
R734	1-216-845-11	METAL CHIP	100K	5%	1/16W
R735	1-216-821-11	METAL CHIP	1K	5%	1/16W
R801	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R803	1-216-815-11	METAL CHIP	330	5%	1/16W
R804	1-216-814-11	METAL CHIP	270	5%	1/16W
R805	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

< VARIABLE RESISTOR >

RV301	1-241-327-11	RES. VAR 10K/10K (VOL)
RV601	1-238-675-21	RES. ADJ. METAL GLAZE 4.7K (SPEED)

< SWITCH >

S302	1-571-275-31	SWITCH, SLIDE (DOLBY NR)
S303	1-571-506-41	SWITCH, SLIDE (EX-DBB)
S702	1-571-275-31	SWITCH, SLIDE (MODE)
S703	1-572-581-11	SWITCH, SLIDE (REV/STOP/FWD)
S704	1-572-579-11	SWITCH, PUSH (A/B DET)
S705	1-571-275-31	SWITCH, SLIDE (HOLD)
S706	1-571-249-11	SWITCH, SLIDE (REMOTE)

< TRANSFORMER >

T801	1-449-466-21	TRANSFORMER, DC-DC CONVERTER
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< CRYSTAL >

X701	1-579-258-11	VIBRATOR, CRYSTAL (32.768kHz)
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A-3016-067-A TUNER BOARD, ASSY (AEP, UK, E)
A-3016-069-A TUNER BOARD, ASSY (US, Canadian)
A-3060-388-A TUNER BOARD, COMPLETE (IT)

1-466-462-11 SWITCH UNIT
1-535-880-11 CONDUCTOR, CONNECTION
3-350-954-01 TERMINAL BOARD (C), BATTERY
3-350-955-01 TERMINAL BOARD (D), BATTERY
3-365-648-01 CASE (LCD), SHIELD

Ref. No.	Part No.	Description	Remark		
< CAPACITOR >					
C3	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C4	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C5	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C6	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C8	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C10	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C11	1-164-382-11	CERAMIC CHIP	91PF	5%	50V
C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C13	1-162-953-11	CERAMIC CHIP	100uF	5%	50V (US, Canadian)
C14	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (US, Canadian)
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C18	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C19	1-162-932-11	CERAMIC CHIP	2PF	0.25PF	50V
C20	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C21	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C22	1-162-936-11	CERAMIC CHIP	5PF	0.25PF	50V
C23	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C24	1-164-315-11	CERAMIC CHIP	470PF	10%	50V
C25	1-164-160-11	CERAMIC CHIP	20PF	10%	50V
C26	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C27	1-162-941-11	CERAMIC CHIP	10PF	0.5PF	50V
C29	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C30	1-164-382-11	CERAMIC CHIP	91PF	5%	50V
C31	1-135-236-11	TANTAL CHIP	47uF	20%	2.5V
C32	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C33	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C34	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C35	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C36	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C37	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C38	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C39	1-135-219-11	TANTAL CHIP	15uF	20%	2.5V
C40	1-135-219-11	TANTAL CHIP	15uF	20%	2.5V
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C42	1-164-346-11	CERAMIC CHIP	1uF		16V
C43	1-164-346-11	CERAMIC CHIP	1uF		16V
C45	1-135-219-11	TANTAL CHIP	15uF	20%	2.5V
C46	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C47	1-164-006-11	CERAMIC CHIP	0.33uF	10%	16V
C48	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C49	1-164-346-11	CERAMIC CHIP	1uF		16V
C50	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C51	1-162-941-11	CERAMIC CHIP	10PF	0.5PF	50V
C52	1-135-158-21	TANTALUM CHIP	15uF	20%	4V

TUNER

Ref. No.	Part No.	Description	Remark
C53	1-162-941-11	CERAMIC CHIP 10PF 0.5PF 50V	
C54	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C55	1-162-962-11	CERAMIC CHIP 470PF 10% 50V	
C56	1-162-953-11	CERAMIC CHIP 100PF 5% 50V (EXCEPT IT)	
C57	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C58	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C59	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C60	1-164-238-11	CERAMIC CHIP 36PF 10% 50V	
C61	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C62	1-162-932-11	CERAMIC CHIP 2PF 0.25PF 50V	
C64	1-135-158-21	TANTALUM CHIP 15uF 20% 4V	
C65	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C66	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C67	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C68	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C69	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C70	1-135-201-11	TANTALUM CHIP 10uF 20% 4V	
C71	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C75	1-162-953-11	CERAMIC CHIP 100PF 5% 50V (EXCEPT IT)	
C76	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
< FILTER >			
CF1	1-579-214-21	FILTER, CERAMIC (10.7MHz)	
CF2	1-579-214-21	FILTER, CERAMIC (10.7MHz)	
< TRIMMER >			
CT2	1-141-327-11	CAP. VAR. TRIMMER (CHIP TYPE)	
CT3	1-141-327-11	CAP. VAR. TRIMMER (CHIP TYPE)	
< DIODE >			
D3	8-719-981-25	DIODE KV1450	
D4	8-719-981-25	DIODE KV1450	
D5	8-719-951-05	DIODE KV1560	
D7	8-719-106-62	DIODE RD11M-B2	
D8	8-719-404-46	DIODE MA110	
D11	8-719-404-46	DIODE MA110	
D12	8-719-404-46	DIODE MA110 (US, Canadian, IT)	
D13	8-719-404-46	DIODE MA110 (EXCEPT US, Canadian)	
D751	8-719-938-75	DIODE SB05-05CP	
< FILTER >			
FL1	1-236-981-21	FILTER, BAND PASS	
< IC >			
IC1	8-759-245-96	IC TA8182FN	
IC2	8-759-231-03	IC TA8153FN	
IC3	8-759-153-23	IC uPD1724GB-544-1A7	
IC5	8-759-947-95	IC S-8051HN-CD-S	

Ref. No.	Part No.	Description	Remark
< JUMPER >			
JR1	1-216-864-11	METAL CHIP 0 (EXCEPT US, Canadian)	
< COIL >			
L3	1-460-155-11	COIL (WITH CORE) (FM RF)	
L4	1-460-156-11	COIL (WITH CORE) (FM OSC)	
L6	1-412-006-31	INDUCTOR CHIP 10uH	
L7	1-412-006-31	INDUCTOR CHIP 10uH	
L8	1-402-282-11	ANTENNA, FERRITE-ROD (WM)	
< DISPLAY PANEL >			
LCD1	1-809-240-11	DISPLAY PANEL, LIQUID CRYSTAL	
< FILTER >			
MF1	1-577-261-21	FILTER, CERAMIC (450kHz)	
< TRANSISTOR >			
Q1	8-729-117-73	TRANSISTOR 2SC4178-F14 (US, Canadian)	
Q2	8-729-117-72	TRANSISTOR 2SC4178-F13	
Q3	8-729-117-72	TRANSISTOR 2SC4178-F13	
Q4	8-729-425-24	TRANSISTOR XN4604	
Q6	8-729-117-72	TRANSISTOR 2SC4178-F13	
Q7	8-729-420-50	TRANSISTOR UN5215 (EXCEPT US, Canadian)	
Q8	8-729-425-24	TRANSISTOR XN4604	
Q10	8-729-403-17	TRANSISTOR XN1215	
Q12	8-729-220-93	TRANSISTOR 2SK209-G	
Q13	8-729-602-21	TRANSISTOR 2SC4154-1	
Q14	8-729-220-93	TRANSISTOR 2SK209-G	
Q15	8-729-602-21	TRANSISTOR 2SC4154-1	
Q16	8-729-602-21	TRANSISTOR 2SC4154-1	
Q17	8-729-402-16	TRANSISTOR XN4608	
Q31	8-729-402-16	TRANSISTOR XN4608	
Q32	8-729-402-16	TRANSISTOR XN4608	
Q33	8-729-402-16	TRANSISTOR XN4608	
Q34	8-729-420-44	TRANSISTOR UN5210	
Q751	8-729-220-93	TRANSISTOR 2SK209-G	
Q752	8-729-420-44	TRANSISTOR UN5210	
Q753	8-729-420-44	TRANSISTOR UN5210	
< RESISTOR >			
R4	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R5	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R8	1-216-829-11	METAL CHIP 47K 5% 1/16W (US, Canadian)	
R9	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R10	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R11	1-216-829-11	METAL CHIP 47K 5% 1/16W (US, Canadian)	

TUNER

Ref. No.	Part No.	Description	Remark		
R12	1-216-815-11	METAL CHIP	330	5%	1/16W
R13	1-216-843-11	METAL CHIP	68K	5%	1/16W
R14	1-216-815-11	METAL CHIP	330	5%	1/16W
R17	1-216-833-11	METAL CHIP	10K	5%	1/16W
R18	1-216-835-11	METAL CHIP	15K	5%	1/16W
R19	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R20	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R21	1-216-834-11	METAL CHIP	12K	5%	1/16W
R22	1-216-845-11	METAL CHIP	100K	5%	1/16W
R23	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R24	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R25	1-216-809-11	METAL CHIP	100	5%	1/16W
R26	1-216-839-11	METAL CHIP	33K	5%	1/16W
R27	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R28	1-216-839-11	METAL CHIP	33K	5%	1/16W
R29	1-216-821-11	METAL CHIP	1K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
R31	1-216-841-11	METAL CHIP	47K	5%	1/16W
R32	1-216-853-11	METAL CHIP	470K	5%	1/16W
R33	1-216-821-11	METAL CHIP	1K	5%	1/16W
R34	1-216-833-11	METAL CHIP	10K	5%	1/16W
R35	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R36	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R37	1-216-833-11	METAL CHIP	10K	5%	1/16W
R38	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R39	1-216-821-11	METAL CHIP	1K	5%	1/16W
R40	1-216-845-11	METAL CHIP	100K	5%	1/16W
R41	1-216-837-11	METAL CHIP	22K	5%	1/16W
R42	1-216-841-11	METAL CHIP	47K	5%	1/16W
R43	1-216-845-11	METAL CHIP	100K	5%	1/16W
R44	1-216-841-11	METAL CHIP	47K	5%	1/16W
R45	1-218-272-11	METAL GLAZE	5.1K	5%	1/16W
R46	1-216-853-11	METAL CHIP	470K	5%	1/16W
R47	1-216-849-11	METAL CHIP	220K	5%	1/16W
R51	1-216-853-11	METAL CHIP	470K	5%	1/16W
R52	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R53	1-216-853-11	METAL CHIP	470K	5%	1/16W
R54	1-216-841-11	METAL CHIP	47K	5%	1/16W
R55	1-216-857-11	METAL CHIP	1M	5%	1/16W
R56	1-216-845-11	METAL CHIP	100K	5%	1/16W
R57	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R59	1-216-841-11	METAL CHIP	47K	5%	1/16W
R60	1-216-833-11	METAL CHIP	10K	5%	1/16W
R62	1-216-839-11	METAL CHIP	33K	5%	1/16W
R63	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R70	1-216-833-11	METAL CHIP	10K	5%	1/16W
R71	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R72	1-216-847-11	METAL CHIP	150K	5%	1/16W
R73	1-216-829-11	METAL CHIP	4.7K	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R74	1-216-833-11	METAL CHIP	10K	5%	1/16W
R75	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R76	1-216-847-11	METAL CHIP	150K	5%	1/16W
R77	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R78	1-216-833-11	METAL CHIP	10K	5%	1/16W
R79	1-216-833-11	METAL CHIP	10K	5%	1/16W
R80	1-216-833-11	METAL CHIP	10K	5%	1/16W
R81	1-216-845-11	METAL CHIP	100K	5%	1/16W
R82	1-216-845-11	METAL CHIP	100K	5%	1/16W
R83	1-216-845-11	METAL CHIP	100K	5%	1/16W
R84	1-216-845-11	METAL CHIP	100K	5%	1/16W
R751	1-216-857-11	METAL CHIP	1M	5%	1/16W
R752	1-216-857-11	METAL CHIP	1M	5%	1/16W
R753	1-216-857-11	METAL CHIP	1M	5%	1/16W
R754	1-216-845-11	METAL CHIP	100K	5%	1/16W

< VARIABLE RESISTOR >

RV1 1-237-928-11 RES. ADJ. CERMET 22K (VCO)

< SWITCH >

S2 1-570-204-21 SWITCH, KEY BOARD (SCAN -)
 S3 1-570-204-21 SWITCH, KEY BOARD (SCAN +)
 S4 1-570-204-21 SWITCH, KEY BOARD (ENTER)
 S6 1-571-275-11 SWITCH, SLIDE (FM)

< TRANSFORMER >

T1 1-404-940-21 TRANSFORMER, IF
 T2 1-406-401-21 COIL (OSC)
 T3 1-449-021-21 TRANSFORMER, DC-DC CONVERTER
 T4 1-404-941-21 COIL (DET)
 T5 1-404-941-21 COIL (DET)

< CRYSTAL >

X1 1-577-262-11 VIBRATOR, CRYSTAL (75kHz)

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

HP901	1-543-789-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-541-856-11	MOTOR	
PM701	1-454-529-11	SOLENOID, PLUNGER	
S901	1-572-580-11	SWITCH, LEAF (ATS/DET)	
S902	1-466-454-11	SWITCH UNIT	

ACCESSORY & PACKING MATERIAL

1-465-626-11 REMOTE CONTROLLER (CF)
 1-528-231-11 BATTERY, NICKEL CADMIUM (NC-6WM)
 1-528-321-11 CHARGER, BATTERY (BC-7AU) (US)
 1-528-322-11 CHARGER, BATTERY (BC-7AC) (Canadian)
 1-528-326-11 CHARGER, BATTERY (BC-7BP) (UK)
 1-528-327-11 CHARGER, BATTERY (BC-7BY) (AEP, IT)
 1-528-338-11 CHARGER, BATTERY (BC-7BT) (E)
 1-550-640-11 CASE, BATTERY
 3-365-641-01 CASE, CARRYING
 * 3-366-381-01 INDIVIDUAL CARTON
 * 3-366-383-01 CUSHION (UPPER)
 * 3-366-384-01 CUSHION (LOWER)
 3-752-888-11 MANUAL, INSTRUCTION
 (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
 (Canadian, UK, AEP, E)
 3-752-888-21 MANUAL, INSTRUCTION (ENGLISH) (US)
 3-752-888-51 MANUAL, INSTRUCTION
 (German, DUTCH, SWEDISH, ITALIAN)
 (AEP, IT)
 8-953-411-90 HEADPHONE MDR-E552PC SET (UK, IT, E)
 8-953-424-90 HEADPHONE MDR-A21MP SET
 (US, Canadian, AEP)
 X-3329-657-1 ATTACHMENT ASSY (UK, IT, E)