

# AIWA®

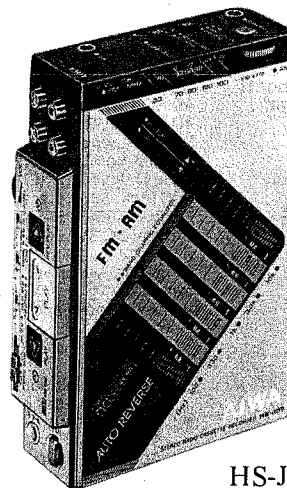
S/M Cord No. 86-037  
DATE OF ISSUE 6/1986-Z

# SERVICE MANUAL

## STEREO RADIO CASSETTE RECORDER

MODEL NO.

# HS-J09, J600



HS-J09, J600

## STEREO RADIO CASSETTE PLAYER

MODEL NO.

# HS-T09, T600



HS-T09, T600

## TYPE. Y

Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of service.

1. No scratch and melting shall be made to covered lead-wires of an a.c. primary circuit including mains leads.
2. No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.
3. When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.
4. The following matters shall be maintained as they are, when repairing.
  - 1) Soldering of lead-wire ends  
\* Care should be taken of the space distance in an a.c. primary circuit as well as soldering.
  - 2) Wiring and holding of lead-wires with wire-clips and binders
  - 3) Materials of lead-wires  
\* e.g.; For UL models, lead-wires to be used shall be approved or accepted by the UL.
  - 4) Location of all kinds of insulators

### 5. General instructions for mechanism repair

- 1) The heads, capstan and pinch roller shall be cleaned of good quality alcohol after repaired, because dirty heads shall cause distorted sounds while dirty capstan and pinch roller shall occur wow/flutter and take-up fault.
- 2) Lubricants been stained the surfaces of transmitting portion of the belts, idlers, capstan and pinch roller shall be removed, because slippery and faulty tape travel shall be caused.
- 3) When oiling, only one or two drops shall be applied so as not to run over and be dispersed. Note should be taken of the metal fitting for the capstan and rotating portions of the idlers and pinch roller, especially.
- 4) E-rings and poly slider washers shall be replaced with new ones, if once those have been removed. — No re-utilization due to unreliability.
- 5) Regular spare-parts shall always be used for repair, because using irregular parts and tampering with the products shall cause deterioration, malfunction and damage.



# DISASSEMBLY INSTRUCTIONS

## 1. External Parts Removal

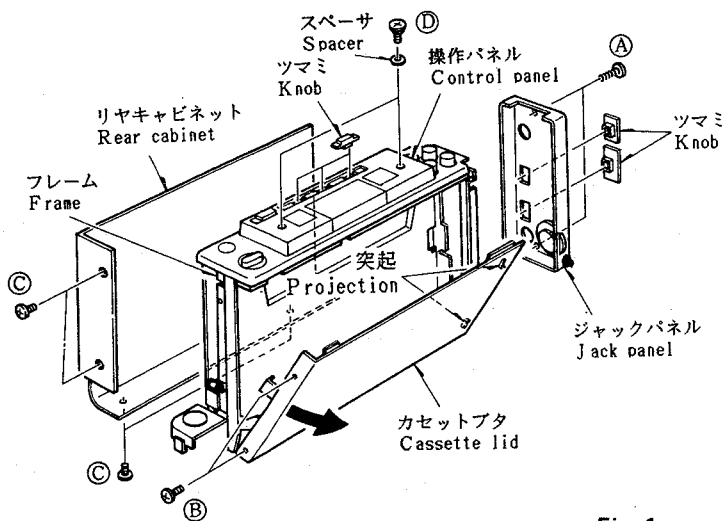
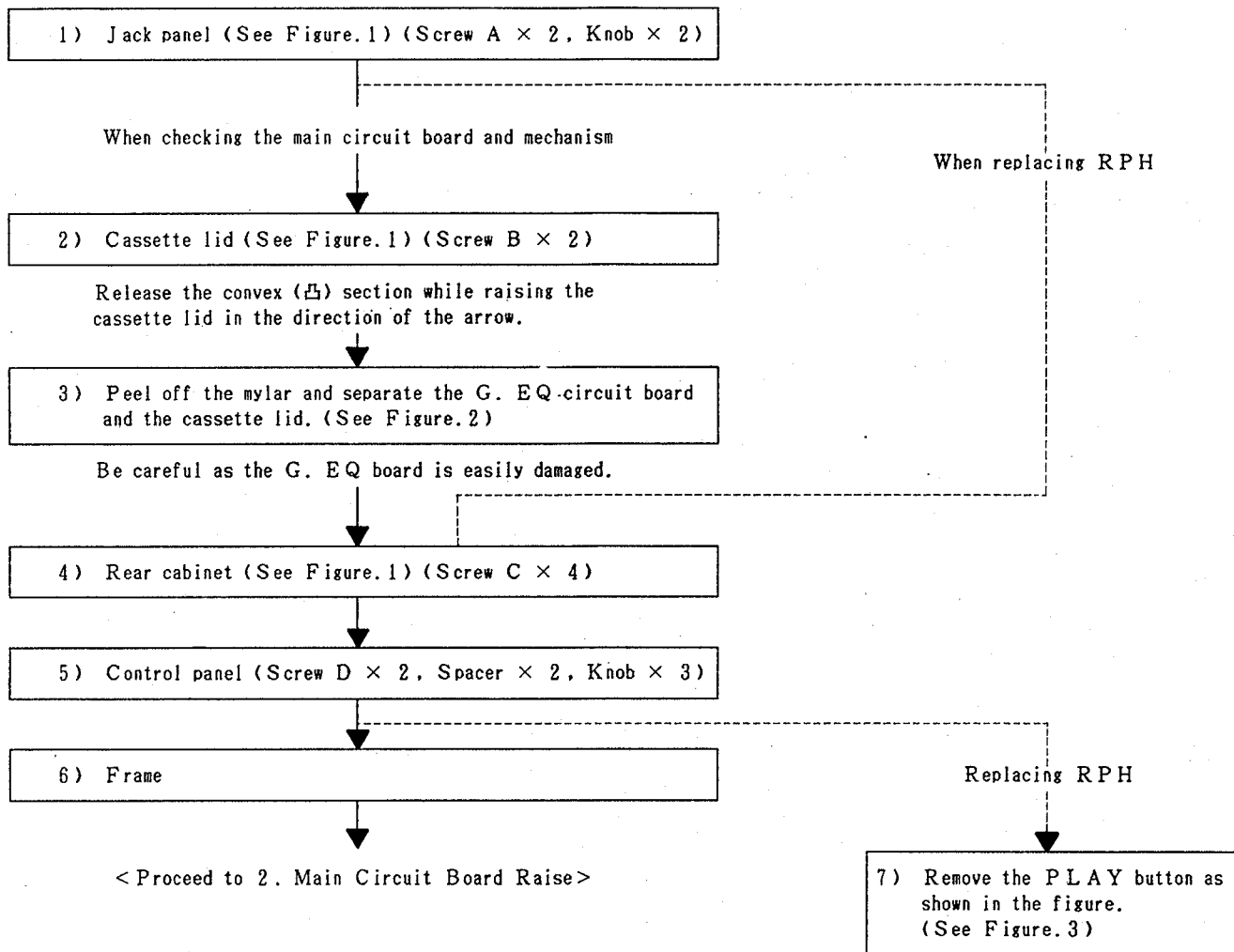


Fig. 1

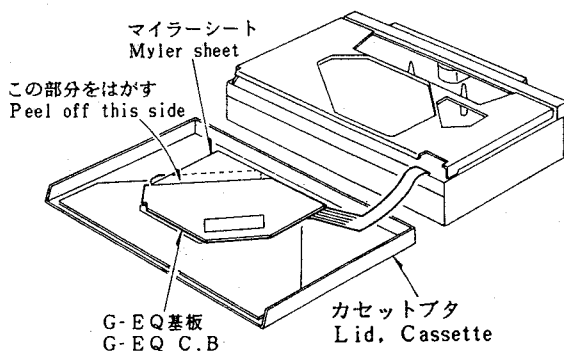


Fig. 2

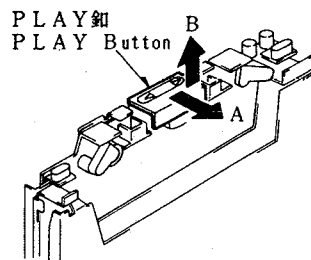


Fig. 3

## 2. Raising the Main Circuit Board (Motor Replacement, MIC-J/HP-J Replacement)

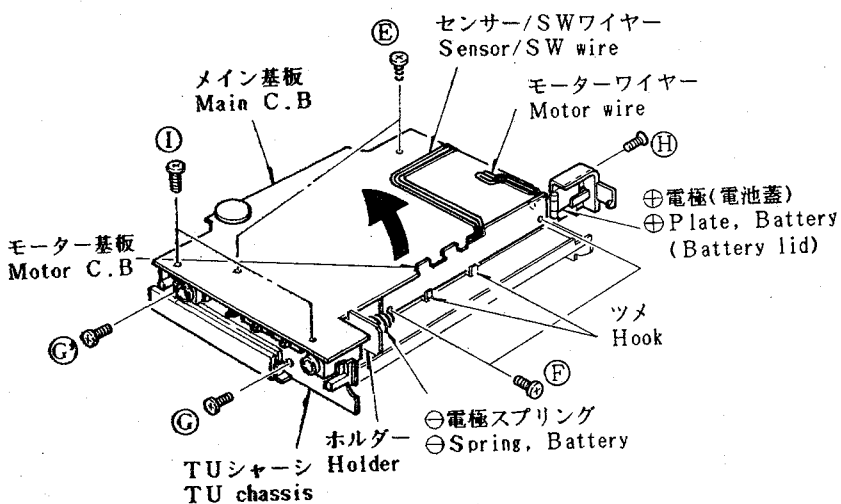
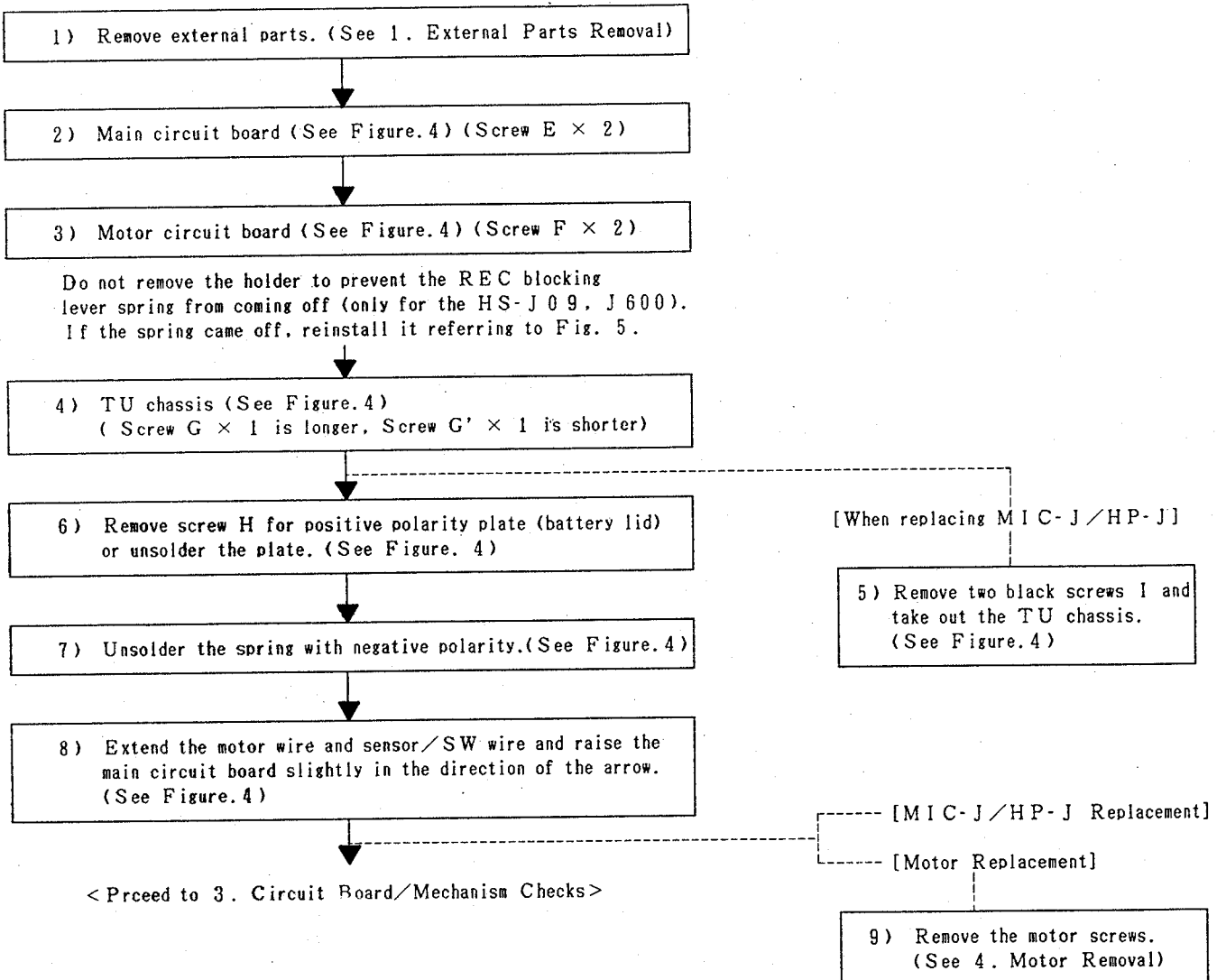


Fig. 4

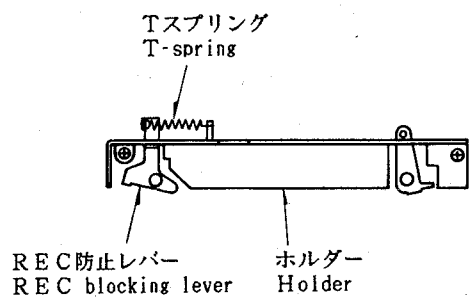


Fig. 5

### 3. Main Circuit Board Check and Mechanism Check (Turning over Main Circuit Board)

- 1) Raise the main circuit board slightly. (See 2. Main Circuit Board Raise)
- 2) Disconnect the connector for the sensor/SW wire. (See Figure. 6)  
Disconnect the connector by using tweezers, etc. Do not pull the wires themselves forcibly as they may be damaged.
- 3) Bend the motor circuit board slightly in the direction of arrow A and move the sensor/SW wire in the direction of arrow B to remove the connector from the board. (See Figure. 6)  
Be careful not to bend the motor board forcibly because the pattern may peel off.
- 4) Turn over the main circuit board. (See Figure. 7)
- 5) Reconnect the sensor/SW wires to the connector. (See Figure. 7)

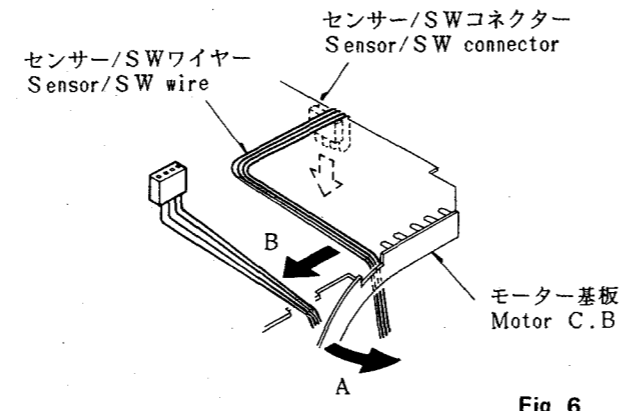


Fig. 6

### 4. Motor Removal

- 1) Remove the cassette lid. (See 1. External Parts Removal.)
- 2) Raise the main circuit board. (See 2. Raising the Main Circuit Board Raise.)
- 3) Remove the 2 motor screws as shown in the figure. (See Figure. 8)

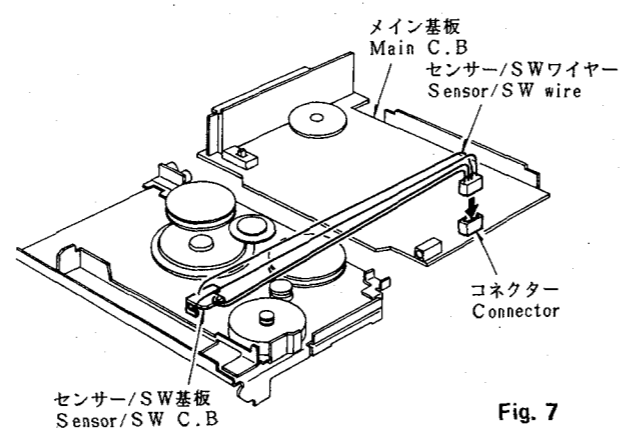


Fig. 7

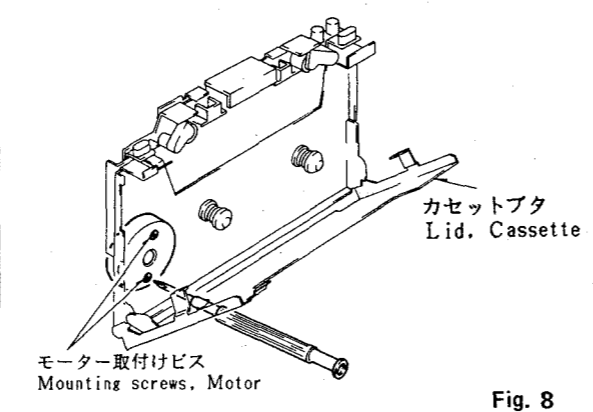


Fig. 8

### Cautions on reinstalling

1. Operation range of TU pointer  
The TU pointer has an operation range of the dial section on the jack panel shown in the figure. (See Figure-9)  
Note) Set the TU pointer to the lower limit.
2. Main circuit board
  - 1) Confirm the positions of the FWD/REV SW and R/P SW.
  - 2) Lay out the motor wires and sensor/SW wires correctly.

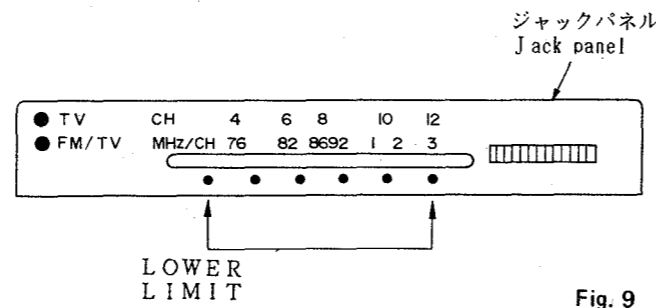
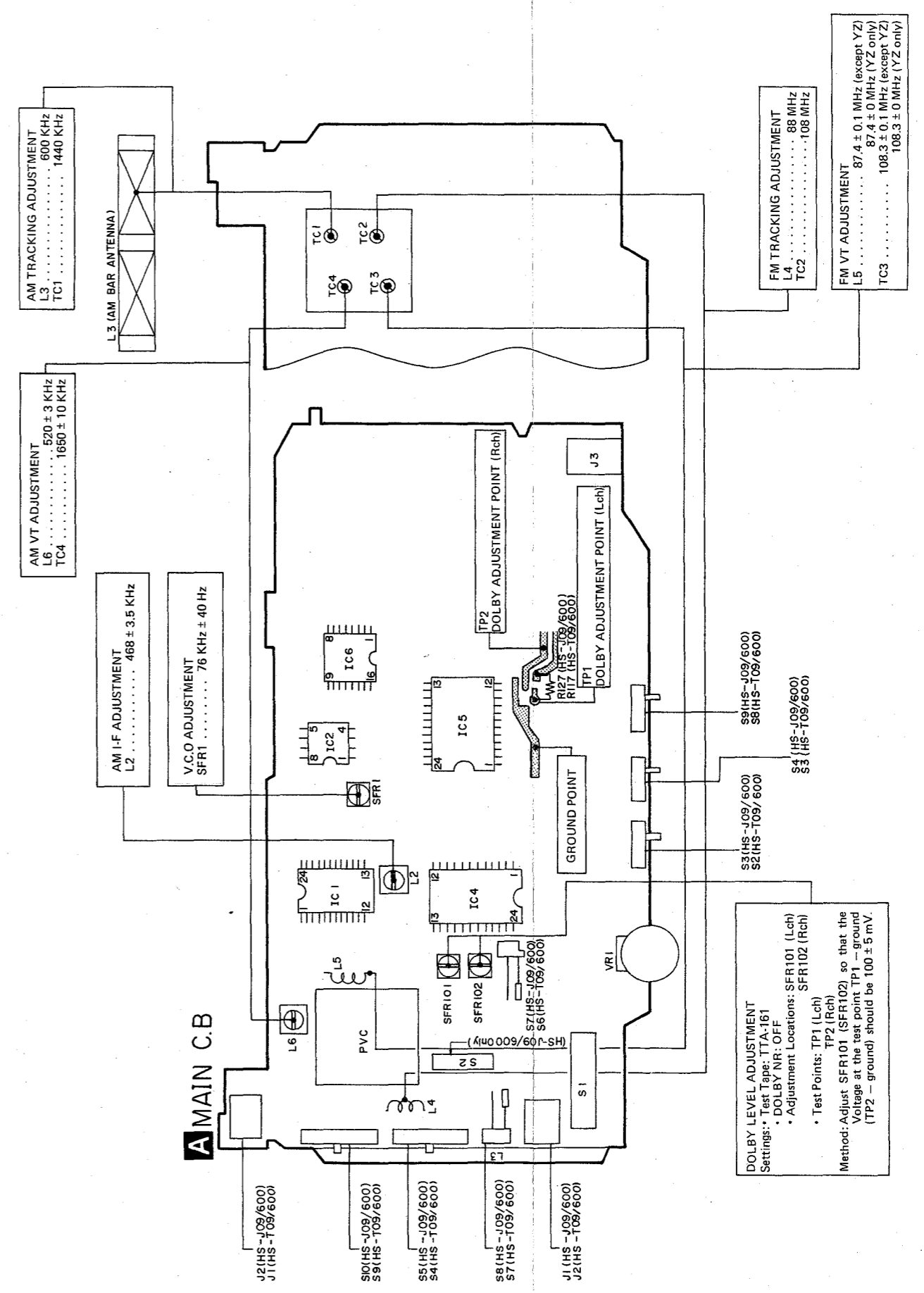


Fig. 9

### ADJUSTMENT (HS-J09/J600, HS-T09/T600)



AM TRACKING ADJUSTMENT	
L3	600 KHz
TC1	1440 KHz

AM VT ADJUSTMENT	
L6	520 ± 3 KHz
TC4	1650 ± 10 KHz

AM I.F. ADJUSTMENT	
L2	468 ± 3.5 KHz

V.C.O. ADJUSTMENT	
SFR1	76 KHz ± 40 Hz

DOLBY TRACKING ADJUSTMENT	
L4	88 MHz
TC2	108 MHz

FM VT ADJUSTMENT	
L5	87.4 ± 0.1 MHz (except YZ)
	87.4 ± 0 MHz (YZ only)
TC3	108.3 ± 0.1 MHz (except YZ)
	108.3 ± 0 MHz (YZ only)

**DOLBY LEVEL ADJUSTMENT**  
 Settings: • Test Tape: TTA-161  
 • DOLBY NR: OFF  
 • Adjustment Locations: SFR101 (Lch) TP1 (Lch) TP2 (Rch)  
 • Test Points: TP1 (Lch) TP2 (Rch)  
 Method: Adjust SFR101 (SFR102) so that the Voltage at the test point TP1 - ground (TP2 - ground) should be 100 ± 5 mV.

ELECTRICAL MAIN PARTS LIST (HS-J09/J600)

+++ mark denotes a component of assembled part which part code is represented by a previously stated component.
\*-mark means less required items and availabilities may be limited.

Table with columns: Ref. No., Part No., Description. Includes sections for IC, TRANSISTOR, MAIN CIRCUIT BOARD SECTION, and various component listings like C106, C107, etc.

CAPACITORS No mark, U, UF: μF P, PF : pF
COILS MMH: mH UH : μH
FUSE MMA: mA

Table with columns: Ref. No., Part No., Description. Includes sections for G-EQ CIRCUIT BOARD SECTION, SENSOR CIRCUIT BOARD SECTION, MOTOR CIRCUIT BOARD SECTION, HEAD CIRCUIT BOARD SECTION, MISCELLANEOUS, and various component listings like C171, C172, etc.

**ELECTRICAL MAIN PARTS LIST (HS-T09/T600)**

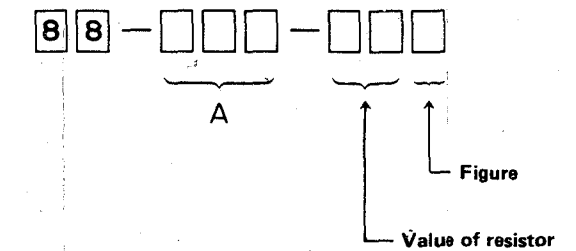
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
=== IC ===			C104	★ 84-417-618	CAP,CHIP 47-4	D111	87-020-027	DIODE CHIP 1SS184
	87-020-459	IC,BA1102F	C105	★ 87-010-198	CAP,CHIP 0.022	D112	87-020-339	DIODE CHIP 1SS226
	87-020-505	IC,CX20023	C106	★ 87-010-198	CAP,CHIP 0.022	D113	87-020-027	DIODE CHIP 1SS184
	87-020-460	IC,CX20111	C107	★ 87-015-785	CAP,CHIP 0.1	D114	★ 87-027-636	LED,TLR226 (OPE/BATT)
	87-020-447	IC,TA7373F						
	87-020-234	IC,TA7688F(S)	C108	★ 87-015-785	CAP,CHIP 0.1	D115	★ 87-020-027	DIODE CHIP 1SS184
=== TRANSISTOR ===			C109	★ 87-015-934	CAP,CHIP TANTALUM 2.2-4	J1	87-049-411	JACK 3.5 G (PHONES-A)
	89-502-094	FET,2SK209Y	C110	★ 87-015-934	CAP,CHIP TANTALUM 2.2-4	J2	87-049-411	JACK 3.5 G (PHONES-B)
	87-026-258	FET,2SK302Y	C111	★ 87-010-179	CAP,CHIP B1200P(K)	J3	87-049-549	JACK DC (DC-3V)
	87-026-233	TRANSISTOR,DTA114TK				L1	★ 87-007-179	COIL LOADING 1.5MMH
	87-026-230	TRANSISTOR,DTA114YK	C112	★ 87-010-179	CAP,CHIP B1200P(K)	L2	★ 87-008-321	IFT AM 5CDL
	87-026-213	TRANSISTOR,DTC114YK	C113	★ 87-010-179	CAP,CHIP B1200P(K)	L3	★ 87-006-110	COIL BAR ANT
	87-026-223	TRANSISTOR,DTC143TK	C114	★ 87-010-179	CAP,CHIP B1200P(K)	L4	★ 84-417-613	COIL ANT FM
	87-026-210	TRANSISTOR,DTC144EK	C115	★ 87-010-193	CAP,CHIP 0.033	L5	★ 84-417-614	COIL OSC FM
	89-111-624	TRANSISTOR,2SA1162Y(TE-85R)	C116	★ 87-010-193	CAP,CHIP 0.033	L6	★ 87-007-188	COIL OSC AM 5CDL
	89-327-124	TRANSISTOR,2SC2712Y	C117	★ 87-010-186	CAP,CHIP 4700P	L101	★ 87-005-259	COIL CHIP 3.3UH
	89-333-266	TRANSISTOR,2SC3326B	C118	★ 87-010-186	CAP,CHIP 4700P	L102	★ 87-005-259	COIL CHIP 3.3UH
=== MAIN CIRCUIT BOARD SECTION ===			C119	★ 87-010-074	CAP,ELECT 4.7-35	L103	★ 87-005-257	COIL CHIP 1.5UH
PCB-A	84-418-601	MAIN CIRCUIT BOARD	C120	★ 87-010-074	CAP,ELECT 4.7-35	L104	★ 87-003-089	COIL CHOKE 47UH
BPF1	★ 87-030-103	FILTER BPMB 8L	C121	★ 87-010-197	CAP,CHIP 0.01	L105	★ 87-003-089	COIL CHOKE 47UH
C1	★ 87-015-764	CAP,CHIP 100P	C122	★ 87-010-197	CAP,CHIP 0.01	S1	87-031-992	SLIDE SW (FWD/REV)
C2	★ 87-010-159	CAP,CHIP S 27P	C123	★ 87-010-193	CAP,CHIP 0.033	S2	87-036-016	SLIDE SW (TAPE SELECTOR)
C3	★ 87-010-177	CAP,CHIP S 820P SL	C124	★ 87-010-193	CAP,CHIP 0.033	S3	87-036-016	SLIDE SW (DOLBY NR)
C4	★ 87-010-148	CAP,CHIP S 4P	C125	★ 87-015-785	CAP,CHIP 0.1	S4	87-031-994	SLIDE SW (RADIO,TAPE/POWER OFF)
C5	★ 87-010-230	CAP,TANTALUM(489D)10-4	C126	★ 87-015-785	CAP,CHIP 0.1	S6	87-031-993	LEAF SW (DIRECTION,FF)
C6	★ 87-010-197	CAP,CHIP 0.01	C127	★ 87-010-452	CAP,CHIP 1U	S7	87-031-993	LEAF SW (DIRECTION,REW)
C7	★ 87-010-336	CAP,CHIP S 18P UJ	C128	★ 87-010-452	CAP,CHIP 1U	S8	87-036-016	SLIDE SW (PAUSE)
C8	★ 87-010-197	CAP,CHIP 0.01	C129	★ 87-010-174	CAP,CHIP S 470P	S9	87-031-945	SLIDE SW (BAND)
C9	★ 87-010-075	CAP,ELECT 10-16	C130	★ 87-010-174	CAP,CHIP S 470P	SFR1	★ 87-021-944	SFR CHIP 20K
C10	★ 87-010-197	CAP,CHIP 0.01	C131	★ 87-010-186	CAP,CHIP 4700P	SFR101	★ 87-021-983	SFR CHIP 5K
C11	★ 87-010-314	CAP,CHIP S 22P CH	C132	★ 87-010-186	CAP,CHIP 4700P	SFR102	★ 87-021-983	SFR CHIP 5K
C12	★ 87-010-197	CAP,CHIP 0.01	C133	★ 87-010-425	CAP,CHIP 0.22	VC1	★ 87-011-195	PVC 1.2
C13	★ 87-010-147	CAP,CHIP S 3P CH	C134	★ 87-010-425	CAP,CHIP 0.22	VC2	★ +++	PVC 1.2
C14	★ 87-015-149	CAP,CHIP S 5P	C135	★ 87-010-082	CAP,ELECT-N 220-4	VC3	★ +++	PVC 1.2
C15	★ 87-010-197	CAP,CHIP 0.01	C136	★ 87-010-082	CAP,ELECT-N 220-4	VC4	★ +++	PVC 1.2
C16	★ 87-010-424	CAP,CHIP TANTALUM 4.7-4V	C139	★ 87-010-226	CAP,TANTALUM 47-4	TC1	★ +++	PVC 1.2
C17	★ 87-010-452	CAP,CHIP 1.0	C140	★ 87-010-230	CAP,TANTALUM (489D)10-4	TC2	★ +++	PVC 1.2
C18	★ 87-010-174	CAP,CHIP S 470P	C142	★ 87-010-082	CAP,ELECT-N 220-4	TC3	★ +++	PVC 1.2
C19	★ 87-010-230	CAP,TANTALUM(489D)10-4	C144	★ 87-010-114	CAP,ELECT 47/4	TC4	★ +++	PVC 1.2
C20	★ 87-010-194	CAP,CHIP 0.047	C145	★ 87-010-076	CAP,ELECT H5 22U-6.3V	VR1	87-021-985	VOLUME 20KA S (VOLUME)
C21	★ 87-010-082	CAP,ELECT-N 220-4	C146	★ 87-010-114	CAP,ELECT 47/4			
C22	★ 87-010-196	CAP,CHIP 0.1	C147	★ 87-010-082	CAP,ELECT-N 220-4			
C23	★ 87-015-785	CAP,CHIP 0.1	C148	★ 87-010-082	CAP,ELECT-N 220-4	=== G-EQ CIRCUIT BOARD SECTION ===		
C24	★ 87-010-194	CAP,CHIP 0.047	C149	★ 87-010-230	CAP,TANTALUM (489D) 10-4	84-417-602	G-EQ ASSY (W/PCB-B)	
C25	★ 87-014-047	CAP,CHIP PP 390P	C150	★ 87-010-195	CAP,CHIP S F 0.068Z	84-417-603	FLEXIBLE CIRCUIT BOARD	
C26	★ 87-010-194	CAP,CHIP 0.047	C151	★ 87-010-224	CAP,TANTALUM 100-4	=== SENSOR CIRCUIT BOARD SECTION ===		
C27	★ 87-010-197	CAP,CHIP 0.01	C152	★ 87-010-195	CAP,CHIP SF 0.068Z	PCB-C	86-530-623	SENSOR CIRCUIT BOARD
C28	★ 87-010-197	CAP,CHIP 0.01	C153	★ 87-010-450	CAP,CHIP 0.47	PR1	87-022-507	PHOTO SENSOR SP1900(O)
C29	★ 87-010-194	CAP,CHIP 0.047	C154	★ 87-010-450	CAP,CHIP 0.47	=== MOTOR CIRCUIT BOARD SECTION ===		
C30	★ 87-010-197	CAP,CHIP 0.047	C155	★ 87-010-424	CAP,CHIP TANTALUM 4.7-4V	M1	86-530-636	MOTOR (R)ASSY(N)(W/PCB-D)
C31	★ 87-010-171	CAP,CHIP S 270P	C156	★ 87-010-425	CAP,CHIP 0.22		86-530-626	MOTOR (J)ASSY(N)(W/PCB-D)
C32	★ 87-010-171	CAP,CHIP S 270P	C157	★ 87-010-226	CAP,TANTALUM 47-4	=== HEAD CIRCUIT BOARD SECTION ===		
C33	★ 87-010-184	CAP,CHIP B 3300P(K)	C158	★ 87-010-190	CAP,CHIP 0.01	PH	86-530-621	PH ASSY(R)(W/PCB-E)
C34	★ 87-010-181	CAP,CHIP S 1800P	CF1	★ 84-417-623	FM IF KIT (10.7MS2Z)	PH	86-530-610	PH
C35	★ 87-010-194	CAP,CHIP 0.047					86-530-604	FLEXIBLE CIRCUIT BOARD
C36	★ 87-010-147	CAP,CHIP S 3PCH	CF2	★ +++	FM IF KIT (10.7MG1Z)	=== MISCELLANEOUS ===		
C37	★ 87-010-147	CAP,CHIP S 3PCH	D101	87-020-339	FILTER PFB 468J	S5	86-530-622	LEAF SW (PLAY)
C57	★ 87-010-169	CAP,CHIP S SL 180P(K)	D102	87-020-027	DIODE CHIP 1SS184			
C101	★ 87-010-177	CAP,CHIP S 820P SL	D103	87-020-125	DIODE CHIP 1SS181			
C102	★ 87-010-177	CAP,CHIP S 820P SL	D104	87-020-027	DIODE CHIP 1SS184			
C103	★ 84-417-618	CAP,CHIP 47-4	D105	87-020-027	DIODE CHIP 1SS184			
			D106	87-020-027	DIODE CHIP 1SS184			
			D107	87-020-027	DIODE CHIP 1SS184			
			D108	87-020-027	DIODE CHIP 1SS184			
			D109	87-020-125	DIODE CHIP 1SS181			
			D110	87-020-125	DIODE CHIP 1SS181			

**IC handling precaution**

IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260°C) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.

**Chip resistor part cord**

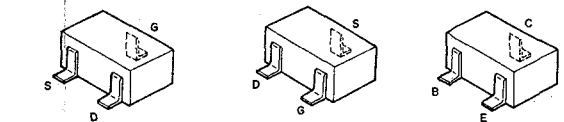


**Chip resistor**

Power value	Type	Dimensions (mm)			
		Form	L	W	t
1/10W	A:118		2	1.25	0.45
1/8W	A:129		3.2	1.6	0.5 ~0.7

**Example of chip resistor**

560Ω 88-129-561  
10kΩ 88-129-103



**FET2SK209**  
**FET2SK302**  
**DTA114**  
**DTC114**  
**DTC143**  
**DTC144**  
**2SA1162**  
**2SC2712**  
**2SC3326**  
**2SD1328**

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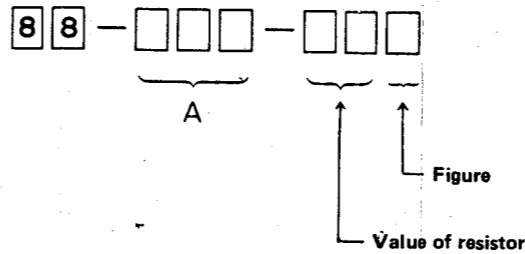
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C104	* 84-417-618	CAP,CHIP 47-4	D111	87-020-027	DIODE CHIP 1SS184
C105	* 87-010-198	CAP,CHIP 0.022	D112	87-020-339	DIODE CHIP 1SS226
C106	* 87-010-198	CAP,CHIP 0.022	D113	87-020-027	DIODE CHIP 1SS184
C107	* 87-015-785	CAP,CHIP 0.1	D114	* 87-027-636	LED,TLR226 (OPE/BATT)
C108	* 87-015-785	CAP,CHIP 0.1	D115	* 87-020-027	DIODE CHIP 1SS184
C109	* 87-015-934	CAP,CHIP TANTALUM 2.2-4	J1	87-049-411	JACK 3.5 G (PHONES-A)
C110	* 87-015-934	CAP,CHIP TANTALUM 2.2-4	J2	87-049-411	JACK 3.5 G (PHONES-B)
C111	* 87-010-179	CAP,CHIP B1200P(K)	J3	87-049-549	JACK DC (DC-3V)
C112	* 87-010-179	CAP,CHIP B1200P(K)	L1	* 87-007-179	COIL LOADING 1.5MMH
C113	* 87-010-179	CAP,CHIP B1200P(K)	L2	* 87-008-321	I FT AM 5CDL
C114	* 87-010-179	CAP,CHIP B1200P(K)	L3	* 87-006-110	COIL BAR ANT
C115	* 87-010-193	CAP,CHIP 0.033	L4	* 84-417-613	COIL ANT FM
C116	* 87-010-193	CAP,CHIP 0.033	L5	* 84-417-614	COIL OSC FM
C117	* 87-010-186	CAP,CHIP 4700P	L6	* 87-007-188	COIL OSC AM 5CDL
C118	* 87-010-186	CAP,CHIP 4700P	L101	* 87-005-259	COIL CHIP 3.3UH
C119	* 87-010-074	CAP,ELECT 4.7-35	L102	* 87-005-259	COIL CHIP 3.3UH
C120	* 87-010-074	CAP,ELECT 4.7-35	L103	* 87-005-257	COIL CHIP 1.5UH
C121	* 87-010-197	CAP,CHIP 0.01	L104	* 87-003-089	COIL CHOKE 47UH
C122	* 87-010-197	CAP,CHIP 0.01	L105	* 87-003-089	COIL CHOKE 47UH
C123	* 87-010-193	CAP,CHIP 0.033	S1	87-031-992	SLIDE SW (FWD/REV)
C124	* 87-010-193	CAP,CHIP 0.033	S2	87-036-016	SLIDE SW (TAPE SELECTOR)
C125	* 87-015-785	CAP,CHIP 0.1	S3	87-036-016	SLIDE SW (DOLBY NR)
C126	* 87-015-785	CAP,CHIP 0.1	S4	87-031-994	SLIDE SW (RADIO,TAPE/POWER OFF)
C127	* 87-010-452	CAP,CHIP 1U	S6	87-031-993	LEAF SW (DIRECTION,FF)
C128	* 87-010-452	CAP,CHIP 1U	S7	87-031-993	LEAF SW (DIRECTION,REW)
C129	* 87-010-174	CAP,CHIP S 470P	S8	87-036-016	SLIDE SW (PAUSE)
C130	* 87-010-174	CAP,CHIP S 470P	S9	87-031-945	SLIDE SW (BAND)
C131	* 87-010-186	CAP,CHIP 4700P	SFR1	* 87-021-944	SFR CHIP 20K
C132	* 87-010-186	CAP,CHIP 4700P	SFR101*	87-021-983	SFR CHIP 5K
C133	* 87-010-425	CAP,CHIP 0.22	SFR102*	87-021-983	SFR CHIP 5K
C134	* 87-010-425	CAP,CHIP 0.22	VC1	* 87-011-195	PVC 1.2
C135	* 87-010-082	CAP,ELECT-N 220-4	VC2	* +++	PVC 1.2
C136	* 87-010-082	CAP,ELECT-N 220-4	VC3	* +++	PVC 1.2
C139	* 87-010-226	CAP,TANTALUM 47-4	VC4	* +++	PVC 1.2
C140	* 87-010-230	CAP,TANTALUM (489D) 10-4	TC1	* +++	PVC 1.2
C142	* 87-010-082	CAP,ELECT-N 220-4	TC2	* +++	PVC 1.2
C144	* 87-010-114	CAP,ELECT 47/4	TC3	* +++	PVC 1.2
C145	* 87-010-076	CAP,ELECT H5 22U-6.3V	TC4	* +++	PVC 1.2
C146	* 87-010-114	CAP,ELECT 47/4	VR1	87-021-985	VOLUME 20KA S (VOLUME)
C147	* 87-010-082	CAP,ELECT-N 220-4			
C148	* 87-010-082	CAP,ELECT-N 220-4			
C149	* 87-010-230	CAP,TANTALUM (489D) 10-4			
C150	* 87-010-195	CAP,CHIP S F 0.068Z			
C151	* 87-010-224	CAP,TANTALUM 100-4			
C152	* 87-010-195	CAP,CHIP SF 0.068Z			
C153	* 87-010-450	CAP,CHIP 0.47			
C154	* 87-010-450	CAP,CHIP 0.47			
C155	* 87-010-424	CAP,CHIP TANTALUM 4.7-4V			
C156	* 87-010-425	CAP,CHIP 0.22			
C157	* 87-010-226	CAP,TANTALUM 47-4			
C158	* 87-010-190	CAP,CHIP 0.01			
CF1	* 84-417-623	FM IF KIT (10.7MS2Z)			
CF3	* +++	FM IF KIT (10.7MG1Z)			
CF2	* 87-008-284	FILTER PFB 468J			
D101	87-020-339	DIODE CHIP 1SS226			
D102	87-020-027	DIODE CHIP 1SS184			
D103	87-020-125	DIODE CHIP 1SS181			
D104	87-020-027	DIODE CHIP 1SS184			
D105	87-020-027	DIODE CHIP 1SS184			
D106	87-020-027	DIODE CHIP 1SS184			
D107	87-020-027	DIODE CHIP 1SS184			
D108	87-020-027	DIODE CHIP 1SS184			
D109	87-020-125	DIODE CHIP 1SS181			
D110	87-020-125	DIODE CHIP 1SS181			

**IC handling precaution**

IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260°C) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.

**Chip resistor part cord**

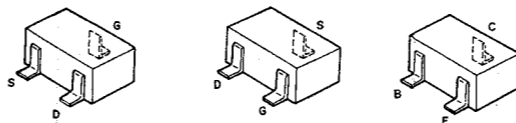


**Chip resistor :**

Power value	Type	Dimensions (mm)			
		Form	L	W	t
1/10W	A:118		2	1.25	0.45
1/8W	A:129		3.2	1.6	0.5 ~0.7

**Example of chip resistor**

560Ω 88-129-561  
10kΩ 88-129-103



FET2SK209

FET2SK302

DTA114

- DTC114
- DTC143
- DTC144
- 2SA1162
- 2SC2712
- 2SC3326
- 2SD1328

**NOTES:**

- 1) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But ( ) is recording. An asterisk (\*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
- 2) Resistors with no designation have a rated power of 1/8W and a tolerance of ±5%.
- 3) Capacitors with no designation have a dielectric strength of less than 50WV.
- 4) The only capacitor tolerance indicated are ±5% (J) and ±10% (K).
- 5) Ceramic capacitor symbols:
  - |—|— For temperature compensation (SL)
  - |—|— High dielectric constant system (YY)
  - |—|— High dielectric constant system (YW, YP, YZ)
  - |—|— Semiconductor ceramic
  - |—|— For temperature compensation (SH)
- 6) Explanation of symbols
  - Ⓜ Mylar capacitor
  - ⓐ Aluminum solid capacitor
  - Ⓟ Polypropylene film capacitor
  - Ⓡ Bi-polarized capacitor
  - Ⓛ Low-leakage capacitor
  - Ⓣ Tantalum capacitor
  - Ⓢ Styrol capacitor
  - ⓁN Low noise resistor

• This schematic diagram is subject to change without notice in the interests of improved performance.



IC2 ( ) : MONO

PIN No.	1	2	3	4	5	6	7	8
VOLTAGE	0.2	2.5	2.9	2.8 (2.9)	0	2.4 (2.9)	0.9	0.9

IC4 ( ) : REC

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	1.5	1.1	1.5	1.5	1.5	1.5	1.5	2.1	2.1	0	0	0
PIN No.	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	2.5	0.9	0.9 (2.9)	1.5	1.5	1.5	1.5	1.5	1.1	0	0

IC1

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12
F M	0	2.1	1.3	1.2	1.3	1.3	1.3	1.3	—	0.4	0	0.4
A M	0	2.6	1.3	1.1	1.3	1.3	1.3	1.3	—	0	0	0.2
PIN No.	13	14	15	16	17	18	19	20	21	22	23	24
F M	1.4	0	1.4	0	0	—	1.3	1.2	1.1	2.6	2.9	0
A M	0	0	1.4	0	0	—	1.6	1.1	0.9	2.6	2.9	0

IC6

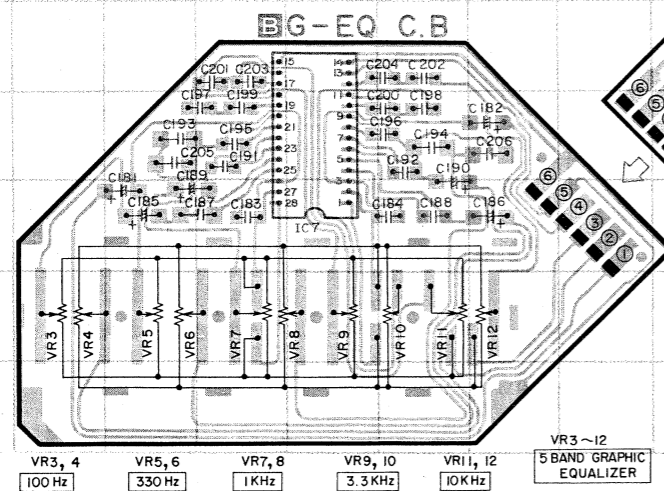
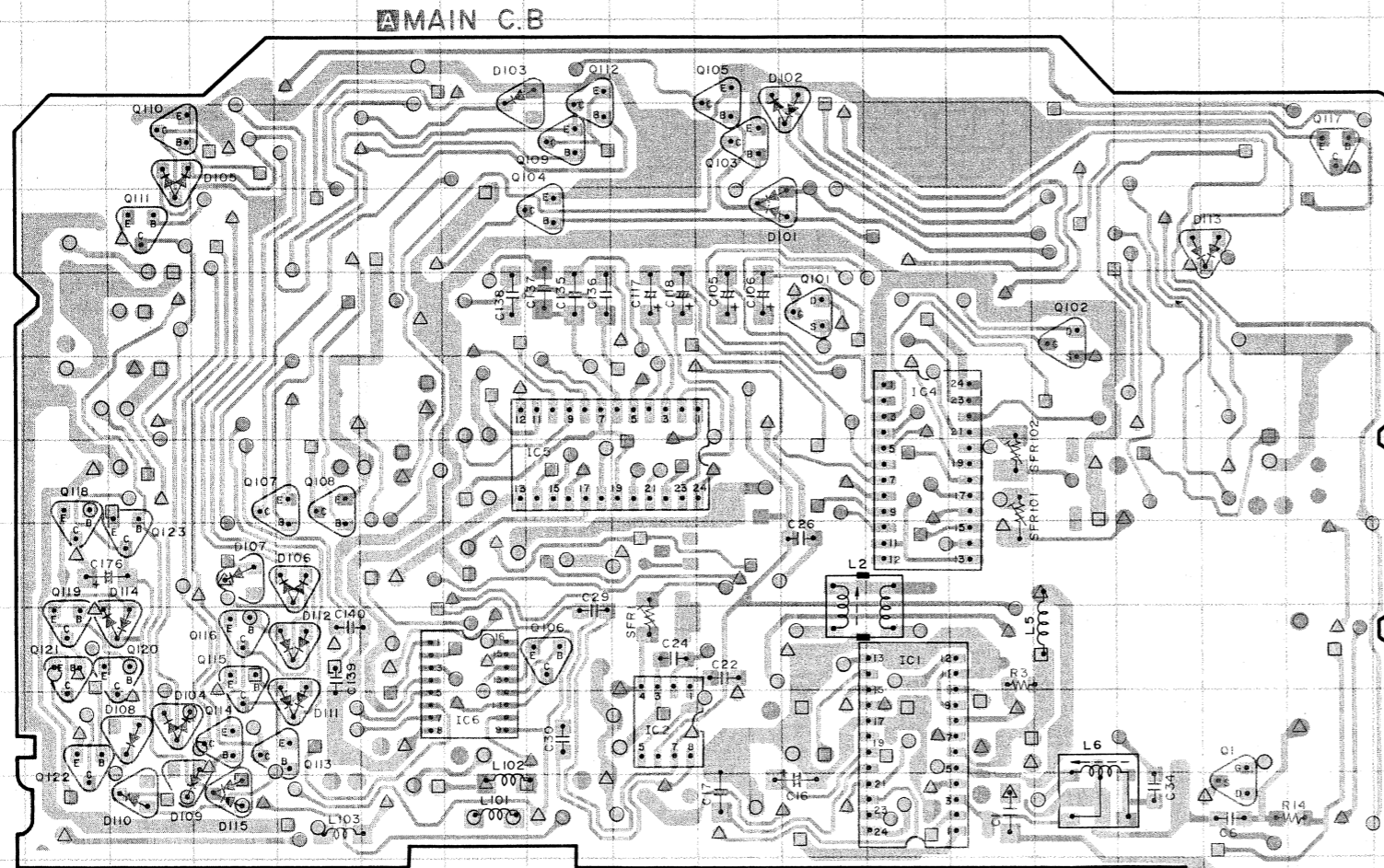
PIN No.	1	2	3	4	5	6	7	8
VOLTAGE	1.5	1.5	1.5	1.5	0.4	2.5	1.5	0
PIN No.	9	10	11	12	13	14	15	16
VOLTAGE	3.0	1.5	2.5	2.2	3.0	1.5	1.5	0

IC5

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	2.5	1.5	1.5	*1 1.5	1.5	1.5	1.5	1.5	1.5	1.5	0	0
PIN No.	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	*2 1.5	1.5	0

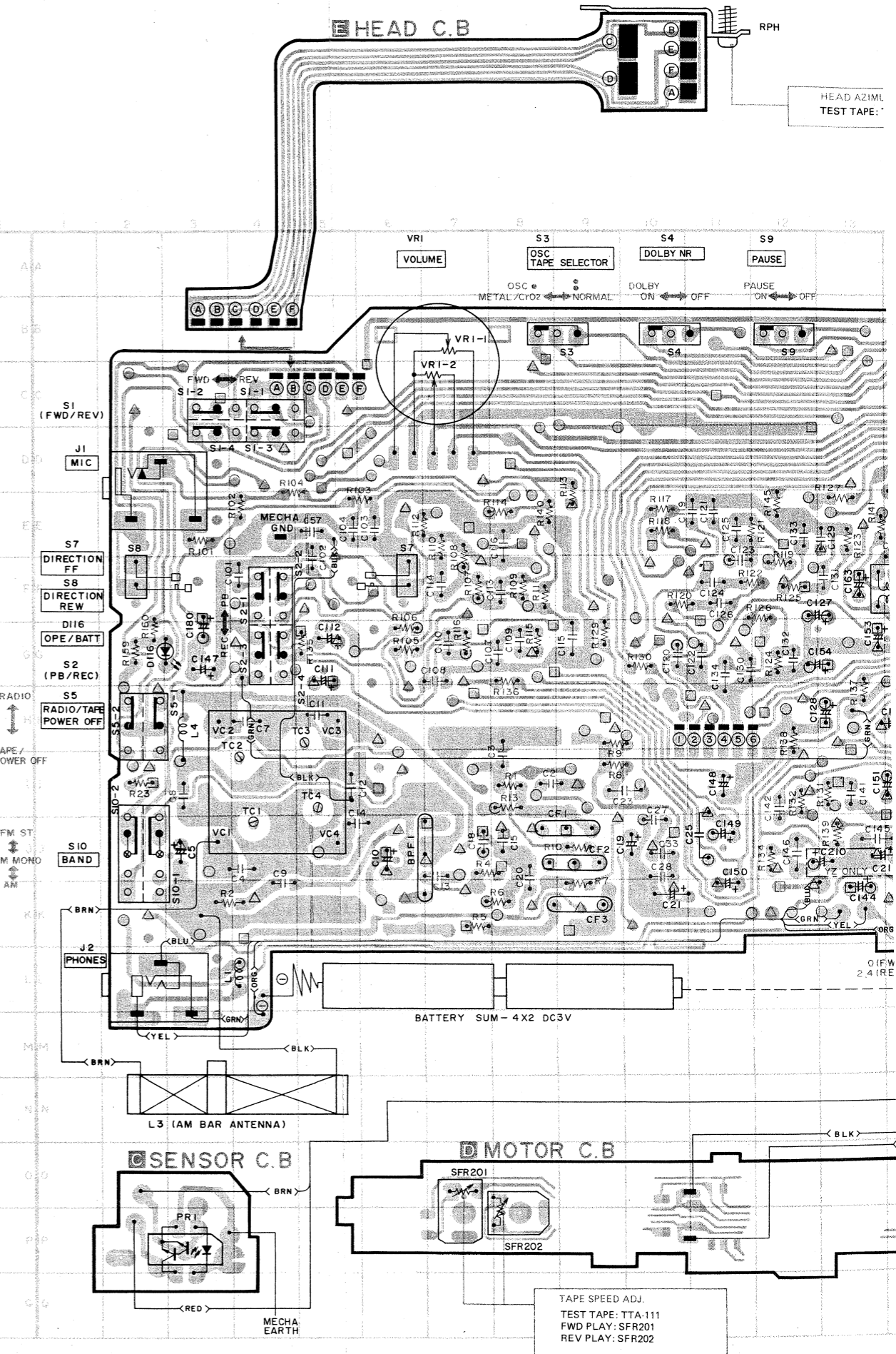
IC7

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLTAGE	1.25	1.26	1.27	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	0	0
PIN No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLTAGE	2.5	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.27	1.26	1.26	1.25



NOTE: — : Chip Jumper Connection  
○, △, □ : Through Hole Connection

To MAIN C.B.



TAPE SPEED ADJ.  
TEST TAPE: TTA-111  
FWD PLAY: SFR201  
REV PLAY: SFR202

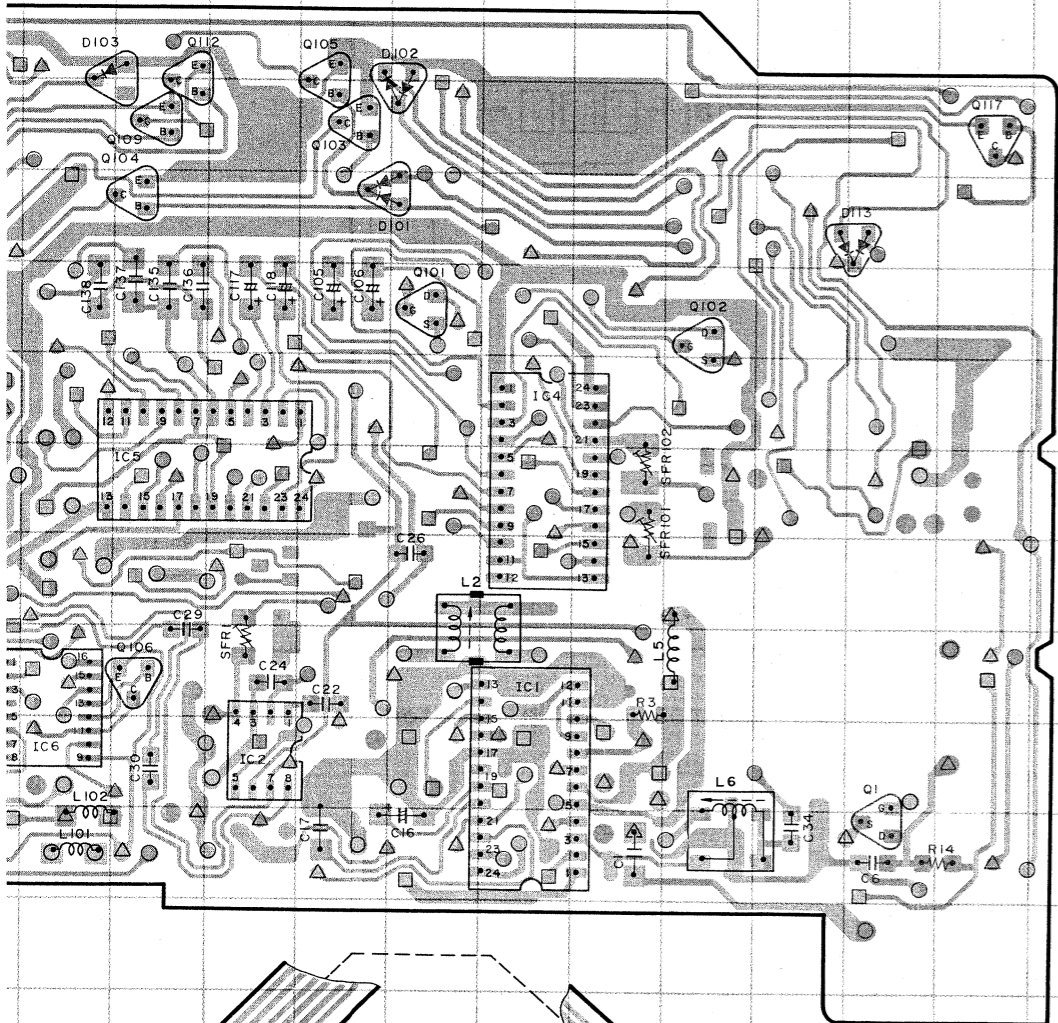
2	3	4	5	6	7	8	9	10	11	12
2.1	1.3	1.2	1.3	1.3	1.3	—	0.4	0	0.4	
2.6	1.3	1.1	1.3	1.3	1.3	—	0	0	0.2	
1.4	0	0	—	1.3	1.2	1.1	2.6	2.9	0	
0	1.4	0	0	—	1.6	1.1	0.9	2.6	2.9	0

IC5												
*1 0.04(TP) O(TU)												
*2 0(OH) 0.5(OFF)												
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0	0
PIN No.	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

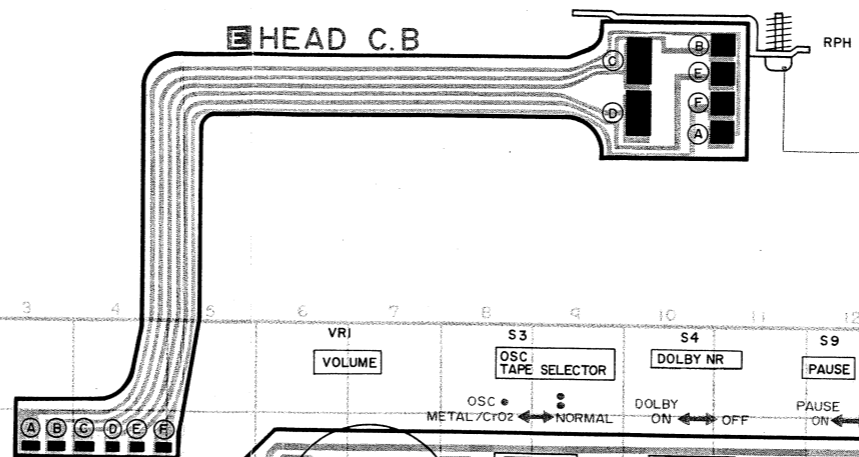
IC6								
PIN No.	1	2	3	4	5	6	7	8
VOLTAGE	1.5	1.5	1.5	1.5	0.4	2.5	1.5	0
PIN No.	9	10	11	12	13	14	15	16
VOLTAGE	3.0	1.5	2.5	2.2	3.0	1.5	1.5	1.5

IC7														
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLTAGE	1.25	1.26	1.26	1.27	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	0
PIN No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLTAGE	2.5	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.27	1.26	1.26	1.25

AIN C.B

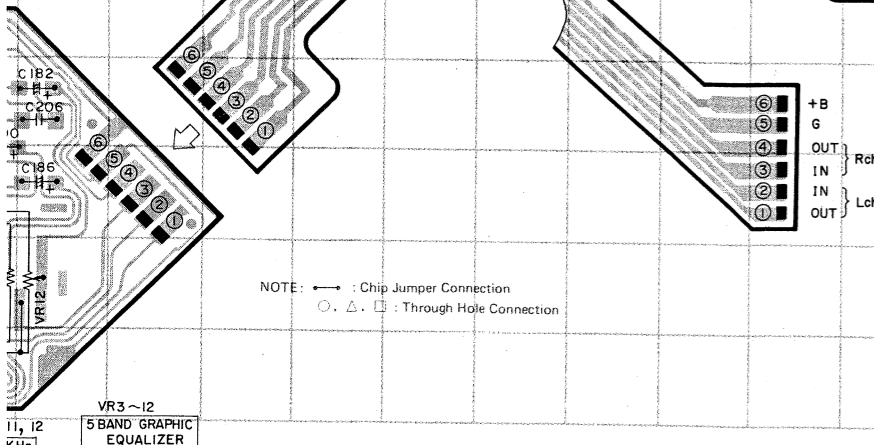
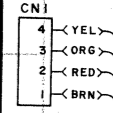
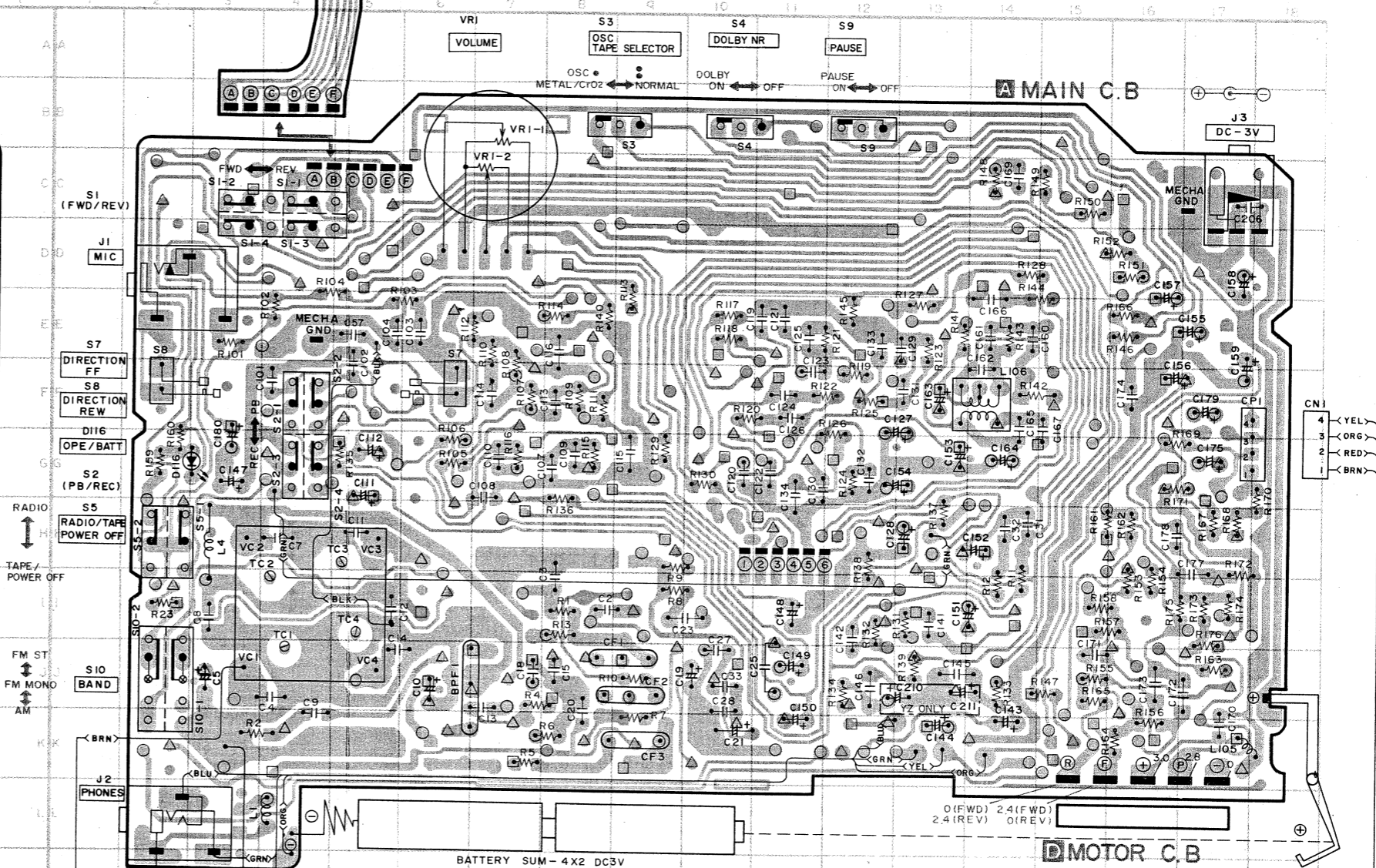


HEAD C.B



HEAD AZIMUTH ADJ  
TEST TAPE: TTA-113B

MAIN C.B



TO MAIN C.B

NOTE: — : Chip Jumper Connection  
○, △, □ : Through Hole Connection

VR3-12  
11, 12  
KHz  
5 BAND GRAPHIC  
EQUALIZER

BATTERY SUM-4X2 DC3V

L3 (AM BAR ANTENNA)

SENSOR C.B

MECHA EARTH

MOTOR C.B

S6 (PLAY)

MOTOR C.B

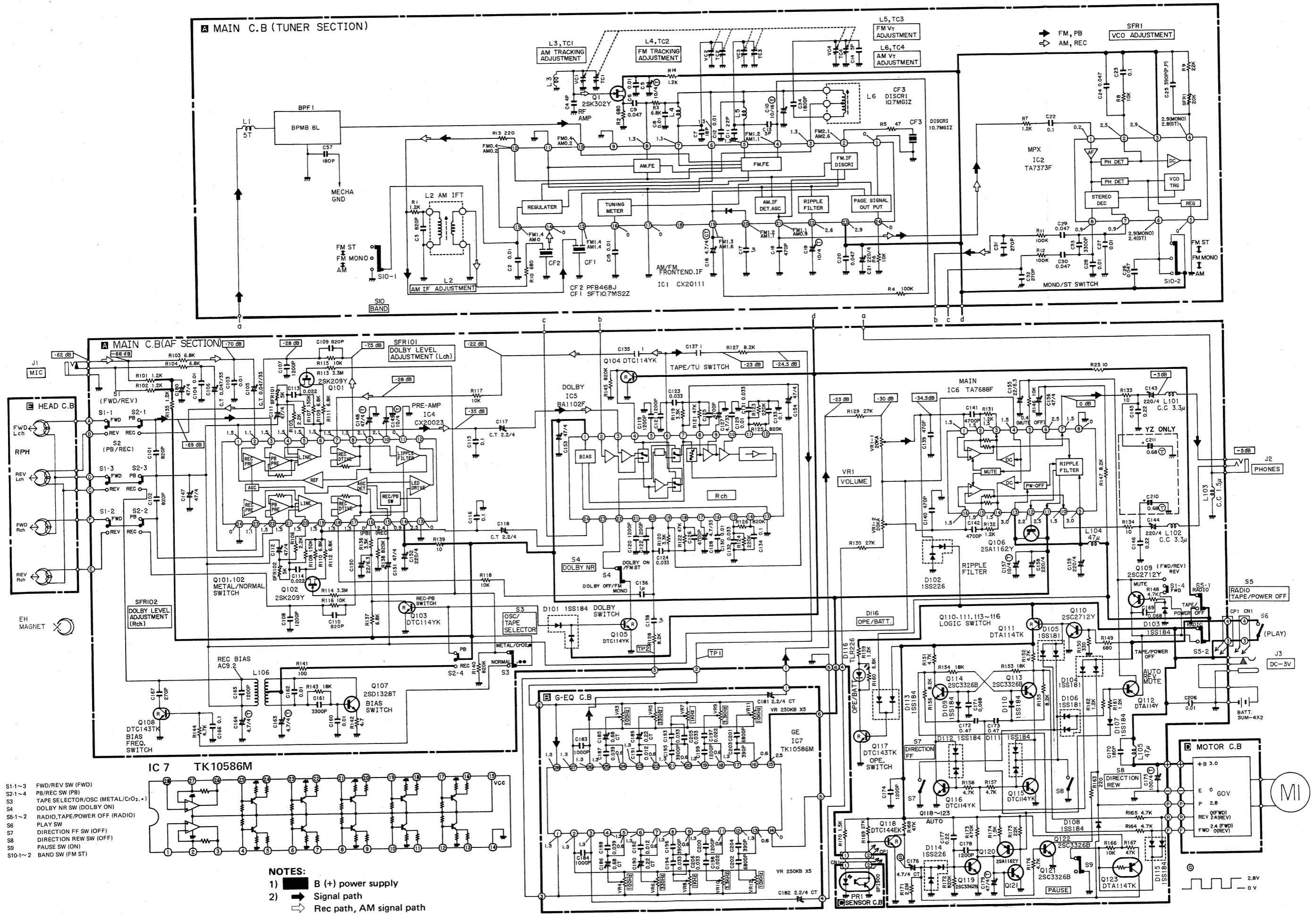
SFR201

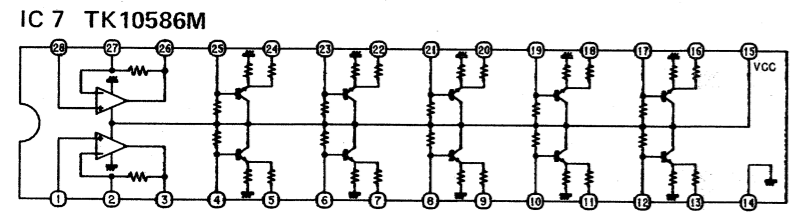
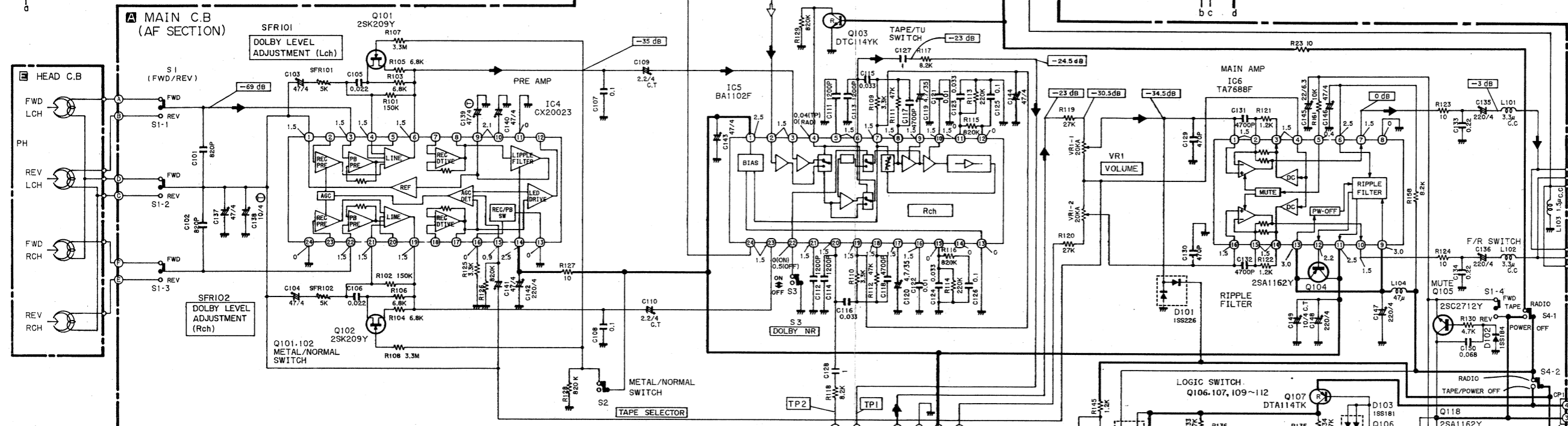
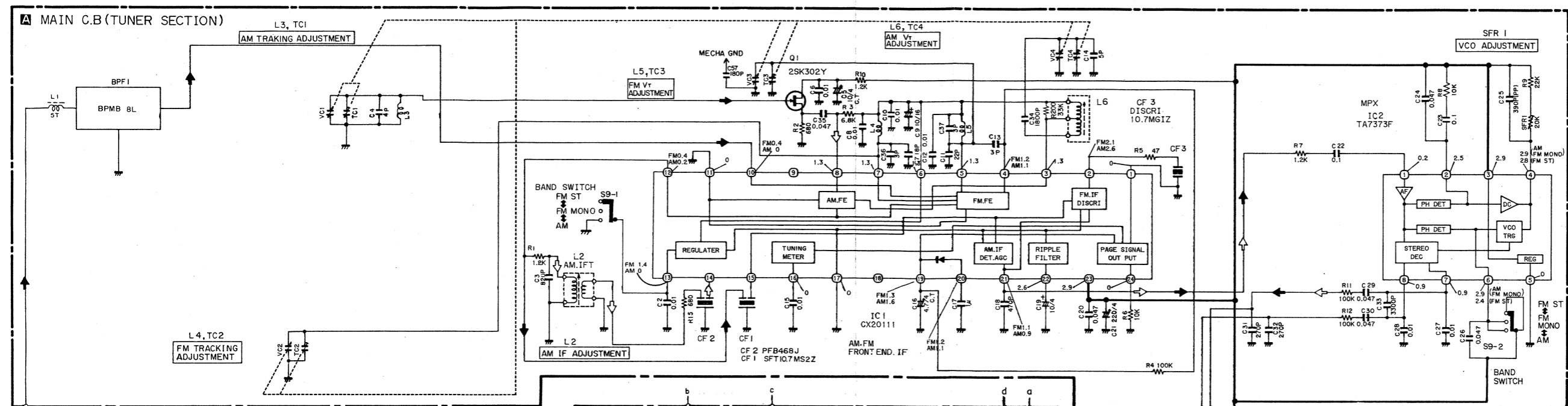
SFR202

TAPE SPEED ADJ.  
TEST TAPE: TTA-111  
FWD PLAY: SFR201  
REV PLAY: SFR202

MI (MOTOR)

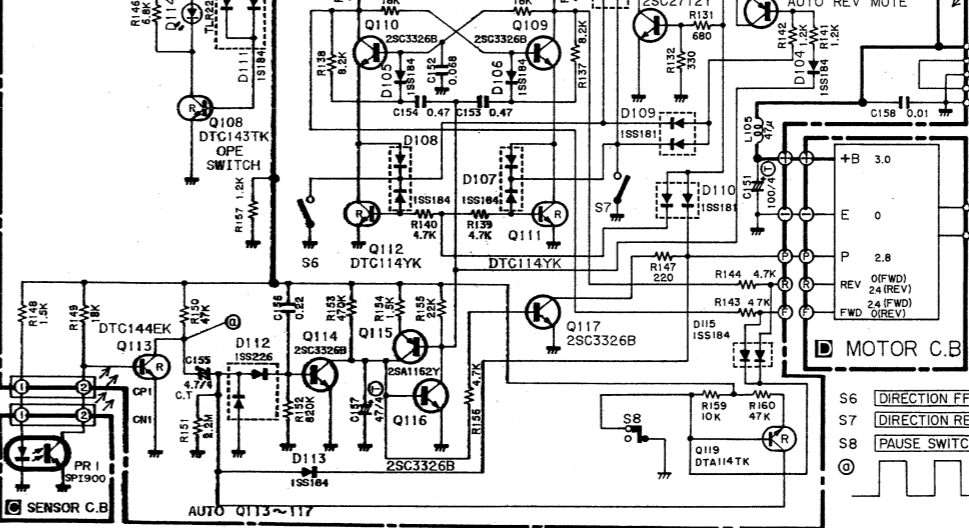
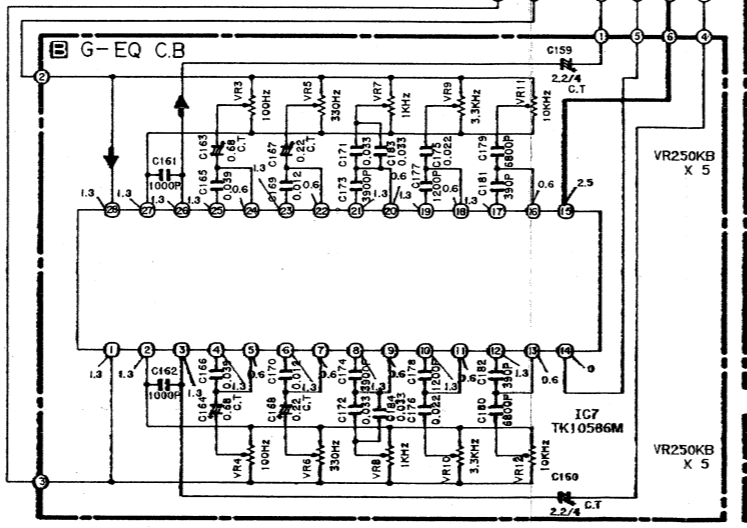
SCHEMATIC DIAGRAM-1 (HS-J09/J600)





- S1-1~4 FWD/REV SW(FWD)
- S2 TAPE SELECTOR (METAL)
- S3 DOLBY SW(ON)
- S4-1~2 RADIO, TAPE/POWER OFF (RADIO)
- S5 PLAY SW
- S6 DIRECTION FF SW(OFF)
- S7 DIRECTION REW SW(OFF)
- S8 PAUSE SW(ON)
- S9-1~2 BAND SW(FM ST)

**NOTES:**  
 1) B (+) power supply  
 2) Signal path  
 AM signal path



IC 2 ( ) : AM, FM MONO

PIN No	1	2	3	4	5	6	7	8
VOLTAGE	0.2	2.5	2.9	2.8 (2.9)	0	2.4 (2.9)	0.9	0.9

IC 4

PIN No	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	0	0
PIN No	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	2.5	0.9	0	0	1.5	1.5	1.5	0	0	0	0

IC 1

PIN No	1	2	3	4	5	6	7	8	9	10	11	12
FM	0	2.1	1.3	1.2	1.3	1.3	1.3	1.3	0.4	0	0.4	0.4
AM	0	2.6	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0.2	0.2
PIN No	13	14	15	16	17	18	19	20	21	22	23	24
FM	1.4	0	1.4	0	0	0	1.3	1.2	1.1	2.6	2.9	0
AM	1.4	0	1.4	0	0	0	1.6	1.1	0.9	0	0	0

IC 5 \*1 0.04(TP) 0(RAD) \*2 0(ON) 0.5(OFF)

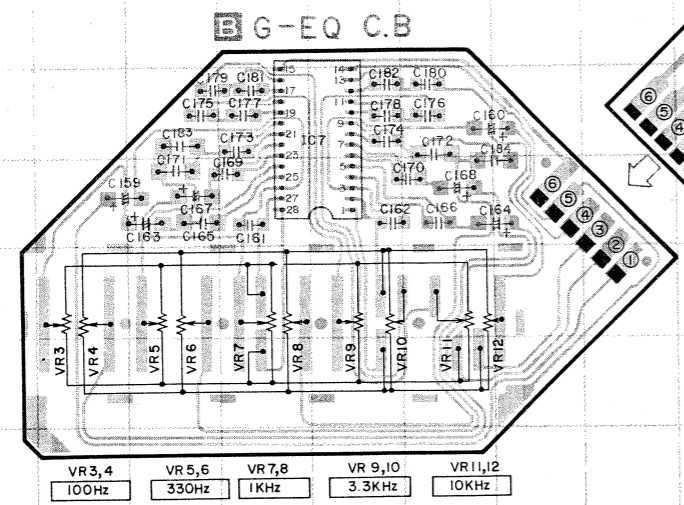
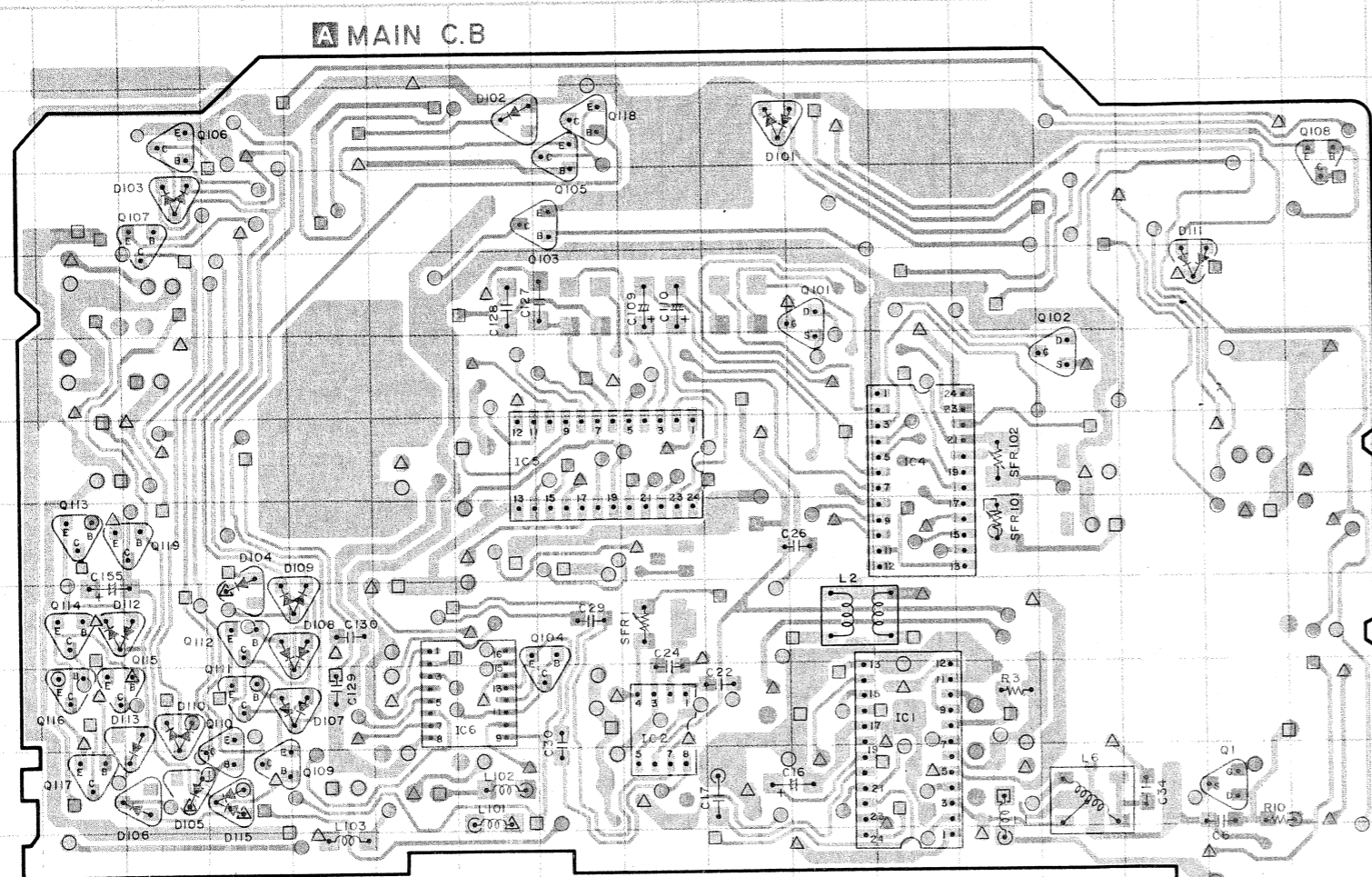
PIN No	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0	0
PIN No	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	0	0	1.5	1.5	1.5	1.5	1.5	1.5	*2	1.5	1.5

IC 6

PIN No	1	2	3	4	5	6	7	8
VOLTAGE	1.5	1.5	1.5	1.5	0.4	2.5	1.5	0
PIN No	9	10	11	12	13	14	15	16
VOLTAGE	3.0	1.5	2.5	2.2	3.0	1.5	1.5	1.5

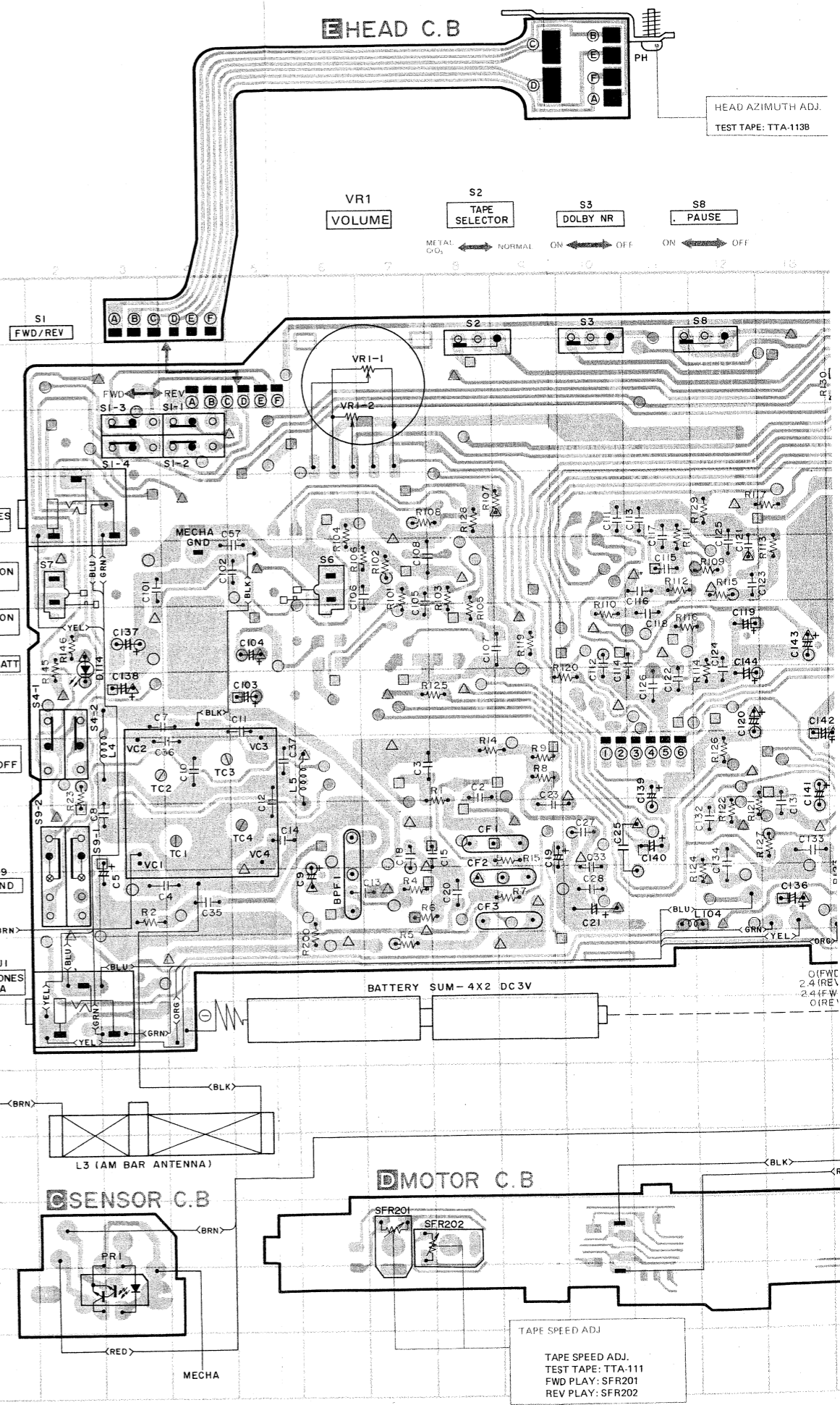
IC 7

PIN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLTAGE	1.25	1.26	1.26	1.27	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	0
PIN No	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLTAGE	2.5	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.27	1.26	1.26	1.25



NOTE  
 — : Chip Jumper Connection  
 ○, △, □ : Through Hole Connection

To MAIN C.B.



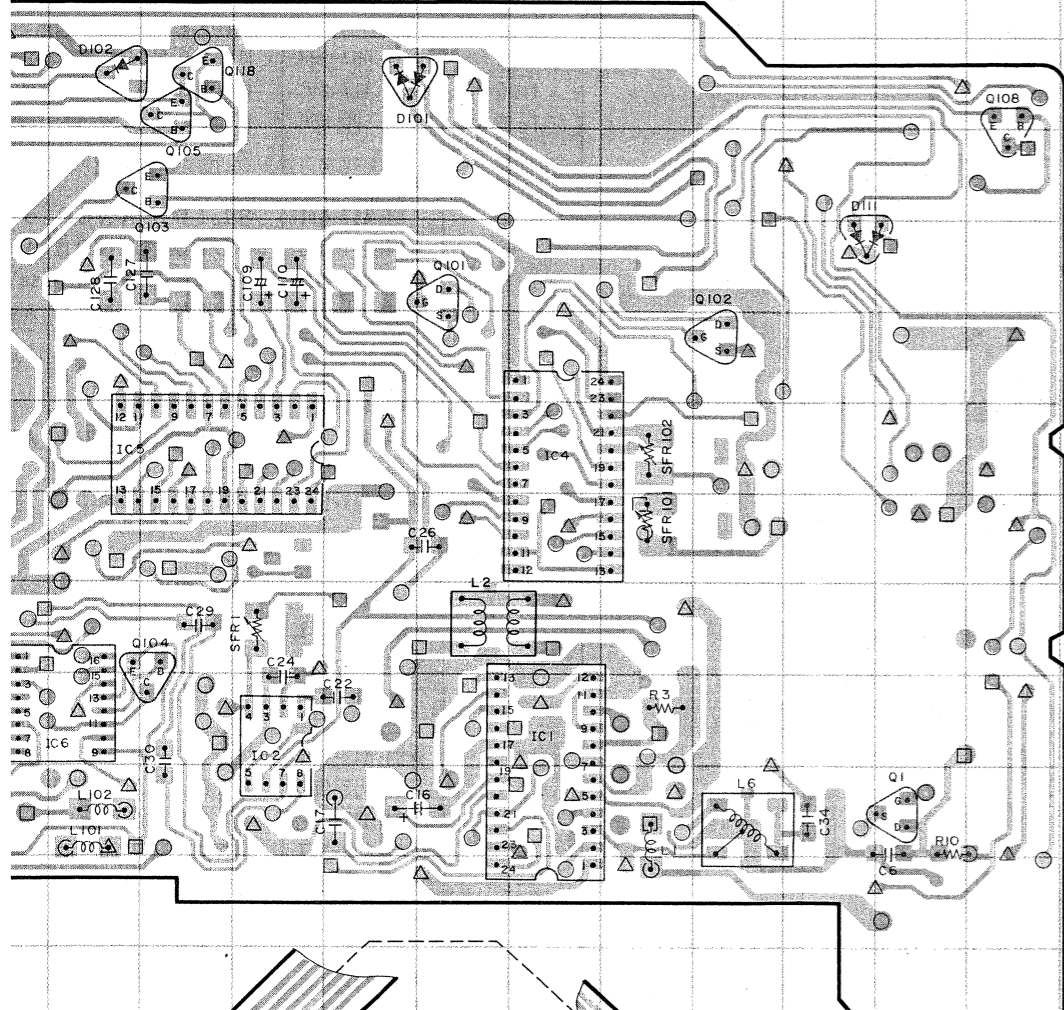
2	3	4	5	6	7	8	9	10	11	12
2.1	1.3	1.2	1.3	1.3	1.3	—	0.4	0	0.4	
2.6	1.1	1.1	1.1	1.1	1.1	—	0	0	0.2	
14	15	16	17	18	19	20	21	22	23	24
0	1.4	0	0	—	1.3	1.2	1.1	2.6	2.9	0
0	1.4	0	0	—	1.6	1.1	0.9			

IC 5												
*1 0.04(TP) O(RAD)												
*2 0(OH) 0.5(OFF)												
PIN No	1	2	3	4	5	6	7	8	9	10	11	12
VOLTAGE	2.5	1.5	1.5	*1	1.5	1.5	1.5	1.5	1.5	0	0	0
PIN No	13	14	15	16	17	18	19	20	21	22	23	24
VOLTAGE	0	0	0	1.5	1.5	1.5	1.5	1.5	*2	1.5	1.5	

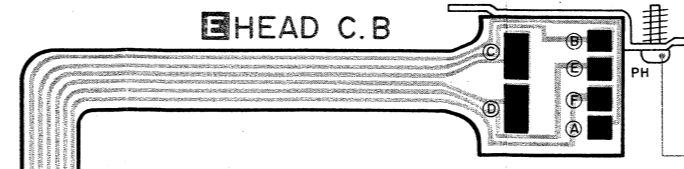
IC 6								
PIN No	1	2	3	4	5	6	7	8
VOLTAGE	1.5	1.5	1.5	1.5	0.4	2.5	1.5	0
PIN No	9	10	11	12	13	14	15	16
VOLTAGE	3.0	1.5	2.5	2.2	3.0	1.5	1.5	1.5

IC 7														
PIN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLTAGE	1.25	1.26	1.26	1.27	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.28	0.58	0
PIN No	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VOLTAGE	2.5	0.58	1.28	0.58	1.28	0.58	1.28	0.58	1.27	1.26	1.26	1.25		

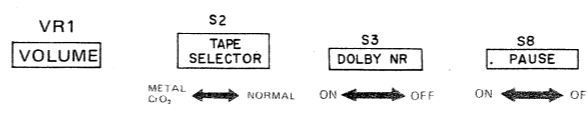
IC.B



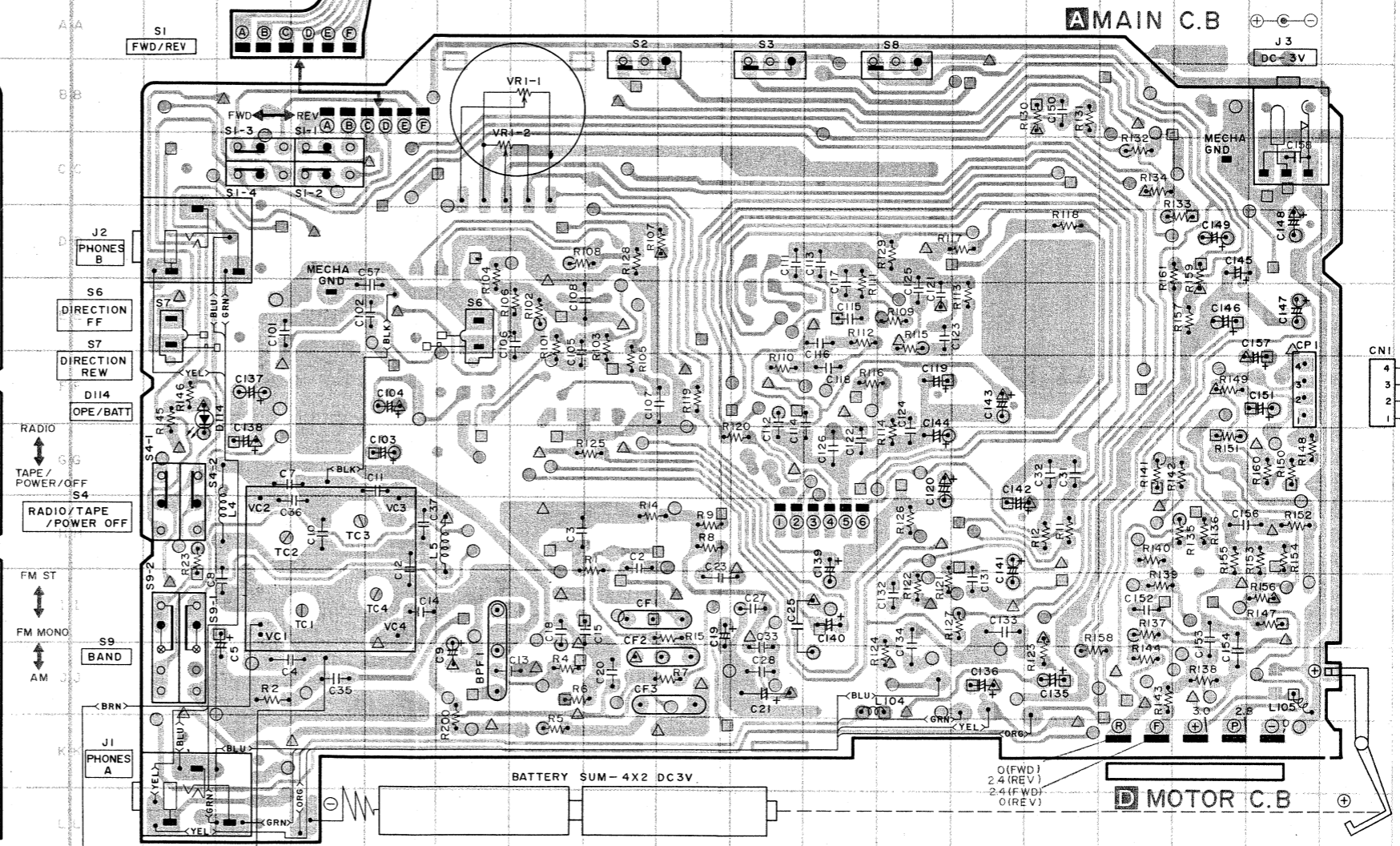
HEAD C.B



HEAD AZIMUTH ADJ.  
TEST TAPE: TTA-113B

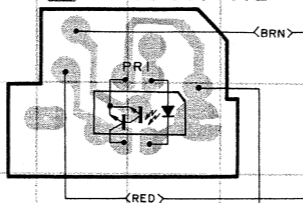


MAIN C.B

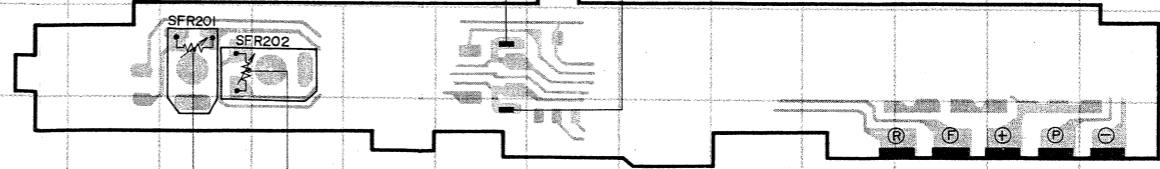


MOTOR C.B

SENSOR C.B



MOTOR C.B



TAPE SPEED ADJ.  
TEST TAPE: TTA-111  
FWD PLAY: SFR201  
REV PLAY: SFR202

To MAIN C.B

NOTE  
— : Chip Jumper Connection  
○, △, □ : Through Hole Connection

Practical Service Figure

<RADIO SECTION>

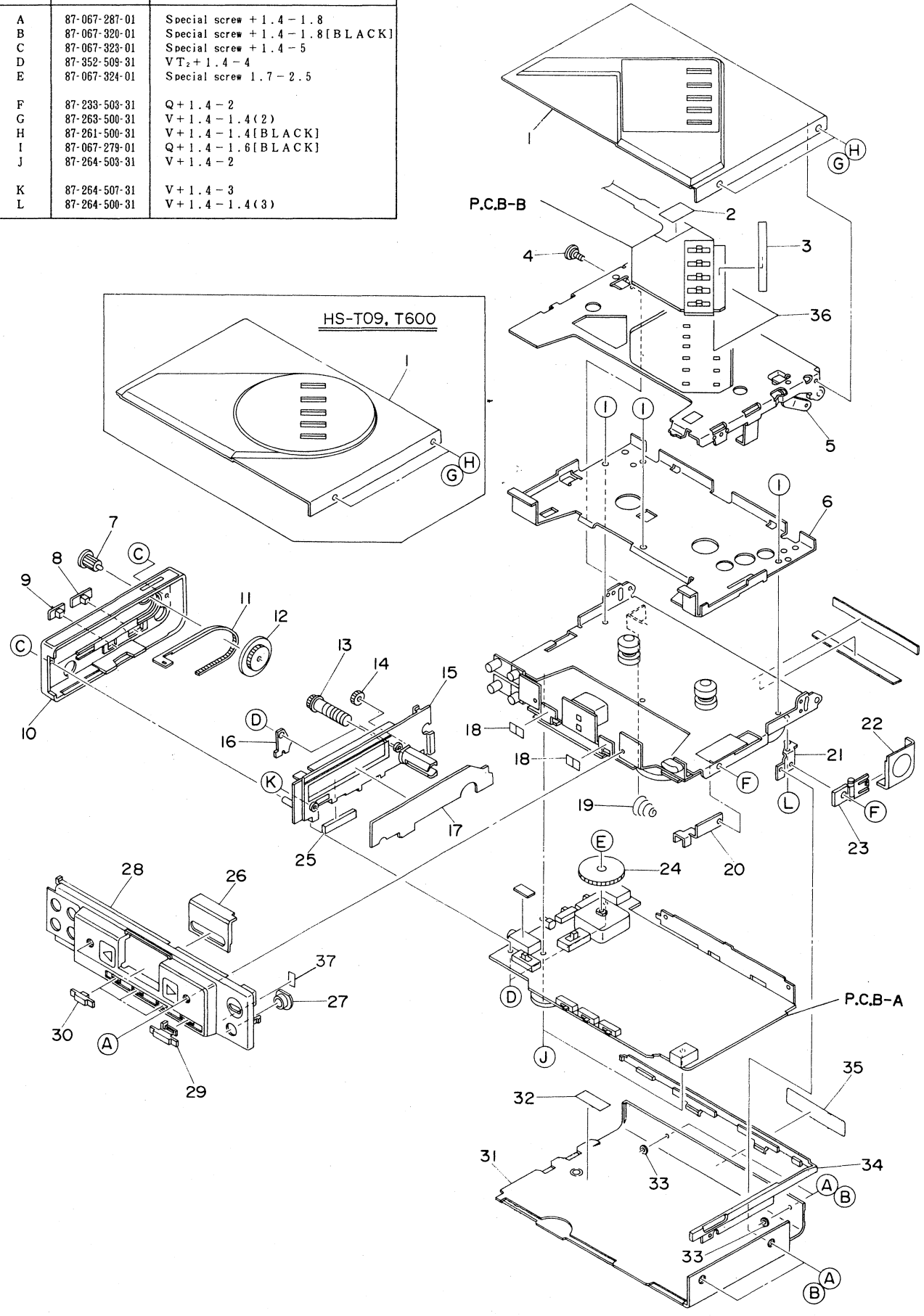
Sensitivity:  
 (IHF, THD 3%) FM  $17 \pm 5$  dB (at 98 MHz)  
 (HS-T09/T600)  
 FM  $15 \pm 5$  dB (at 96 MHz)  
 (HS-J09/J600)  
 (S/N 10dB) AM Less than 5.2 dB (at 1000 kHz)  
 Intermediate frequency: FM 10.7 MHz  
 AM 468 kHz

<TAPE SECTION>

Record bias frequency: 5.4 kHz (HS-J09/J600)  
 Erasing ratio: More than 5.5 dB  
 (HS-J09/J600)  
 Wow & flutter: Less than 0.45% (RMS)  
 Distortion: Less than 3% (PB)  
 Less than 10% (REC)  
 (HS-J09/J600)  
 Signal noise ratio:  $50 \pm 3$  dB (PB)  
 $35 \pm 8$  dB (REC)  
 (HS-J09/J600)  
 Noise level: Less than 5 mV  
 (DC, AC/MAX PB)  
 Less than 2.5 mV (DC MAX REC)  
 (HS-J09/J600)  
 Less than 2.7 mV (AC MAX REC)  
 (HS-J09/J600)  
 Pinch roller pressure:  $180 \pm 20$  g  
 Tape up torque: 2.5 ~ 3.5 g-cm (FWD)  
 2.5 ~ 4.0 g-cm (REV)  
 FF/rewind torque: 6.0 ~ 12.0 g-cm  
 Back tension: 1.5 ~ 3.0 g-cm  
 FM stereo separation:  $17 \pm 3$  dB (1 kHz)

EXPLODED VIEW - I (HS-J09/J600, HS-T09/T600)

Ref. No.	Part No.	Description
A	87-067-287-01	Special screw +1.4-1.8
B	87-067-320-01	Special screw +1.4-1.8 (BLACK)
C	87-067-323-01	Special screw +1.4-1.5
D	87-352-509-31	VT <sub>2</sub> +1.4-4
E	87-067-324-01	Special screw 1.7-2.5
F	87-233-503-31	Q+1.4-2
G	87-263-500-31	V+1.4-1.4(2)
H	87-261-500-31	V+1.4-1.4 (BLACK)
I	87-067-279-01	Q+1.4-1.6 (BLACK)
J	87-264-503-31	V+1.4-2
K	87-264-507-31	V+1.4-3
L	87-264-500-31	V+1.4-1.4(3)



MECHANICAL PARTS LIST  
 (HS-J09/J600, HS-T09/T600)

Part No. changed to	Ref. No.	Part No.	Description
	1-1	09-027-438	CASSETTE LID Ass'y
		09-027-439	CASSETTE LID Ass'y
		09-027-440	CASSETTE LID Ass'y
		09-027-441	CASSETTE LID Ass'y
		09-027-442	CASSETTE LID Ass'y
		09-027-443	CASSETTE LID Ass'y
		09-027-444	CASSETTE LID Ass'y
	1-2	---	MYLER 42-4
	1-3	---	SHEET 14-65-0.0
	1-4	★87-067-288	HINGE SCREW +1.4
	1-5	★84-417-211	CASSETTE HOLDER
	1-6	★86-530-006	DECORATION PLATE
	1-7	★84-417-024	TU CAP
	1-8	84-417-011	SLIDE KNOB B
	1-9	84-417-010	SLIDE KNOB A
	1-10	★09-027-435	JACK PANEL Ass'y (H)
		★09-027-434	JACK PANEL Ass'y (L)
	1-11	★84-417-006	TU POINTER
	1-12	★84-417-014	TU KNOB
	1-13	★84-417-203	TU SHAFT WOAM
	1-14	84-417-213	GEAR IDLER
	1-15	★84-417-201	TU CHASSIS
	1-16	---	HOLDER, TU WOAM
	1-17	---	PLATE, ANTENNA
	1-18	★84-420-011	SEAL, DIRECTION
	1-19	★84-417-206	BATTERY TERMINAL
	1-20	---	HOLDER, DC JACK
	1-21	★84-417-204	HOLDER, BATTERY
	1-22	84-417-007	LID, BATTERY S
		84-417-061	LID, BATTERY B
	1-23	★82-673-257	BATTERY TERMINAL
	1-24	★84-417-202	TU DRUM
	1-25	---	CUSHION, ANTENNA
	1-26	★86-530-001	PUSH-BUTTON, PLATE
	1-27	★84-420-019	SPACER, JACK (WH)
	1-28	★09-027-436	CONTROL PANEL Ass'y
		★09-027-437	CONTROL PANEL Ass'y
	1-29	★84-417-021	SLIDE KNOB, DIRE
	1-30	84-420-007	SLIDE KNOB
	1-31	★84-417-076	REAR PANEL S
		★84-417-077	REAR PANEL B
	1-32	---	MYLER SHEET 18x9
	1-33	---	MYLER WASHER 1.7-
	1-34	★84-417-005	FRAME
	1-35	---	PLATE, SPEC.
	1-36	---	SEAL, GE (HS-J09)
	1-37	---	MYLER 4-6-0.1

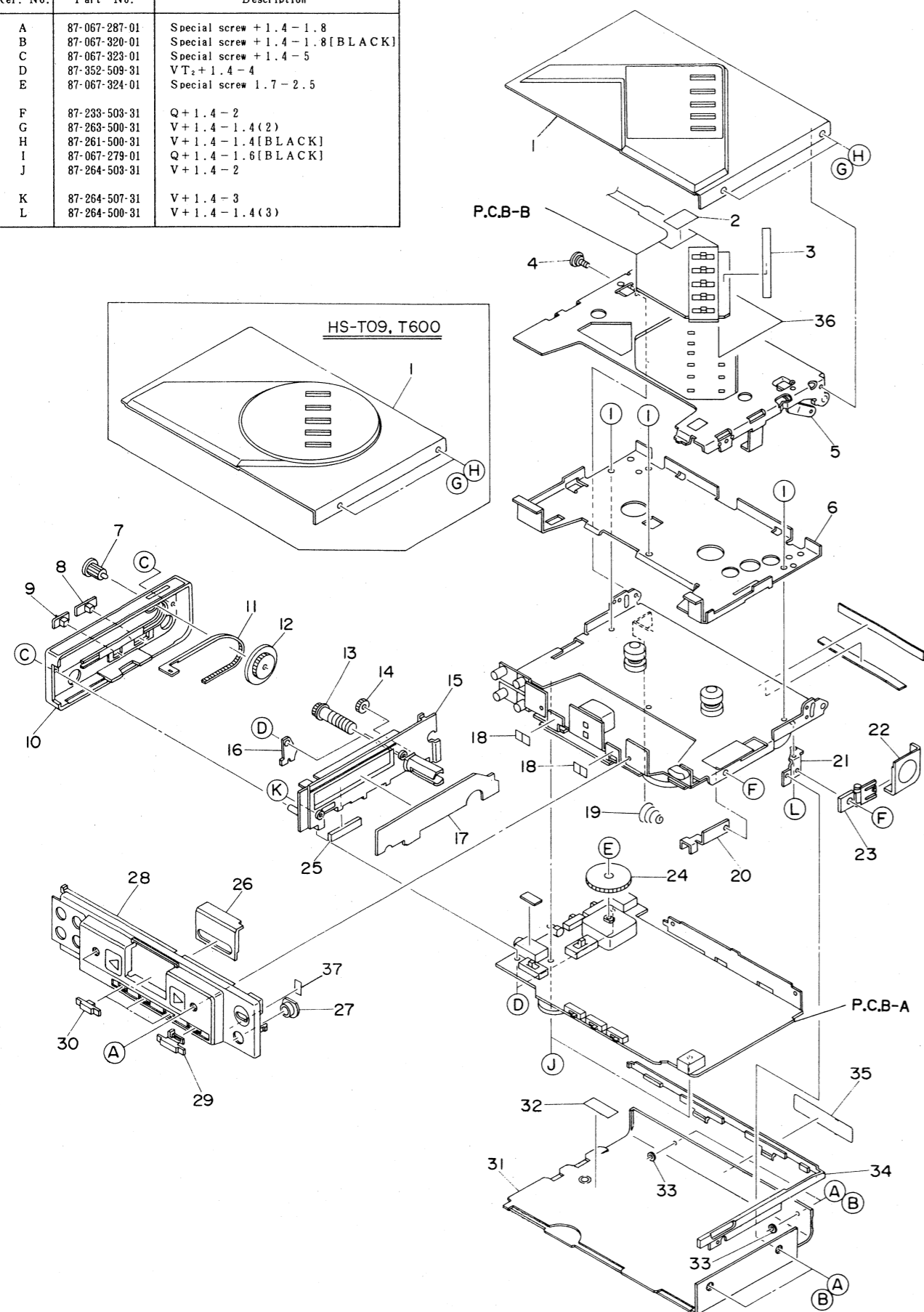
COLOR DESCRIPTION [S]=

# EXPLODED VIEW - I (HS-J09/J600, HS-T09/T600)

# MECHANICAL PARTS LIST (HS-J09/J600, HS-T09/T600)

• ※-mark in this part list shows exclusive part.  
 • ★-mark means less required items availabilities may be limited.  
 • No availability part is marked with --- in Part No. list.

Ref. No.	Part No.	Description
A	87-067-287-01	Special screw +1.4-1.8
B	87-067-320-01	Special screw +1.4-1.8[BLACK]
C	87-067-323-01	Special screw +1.4-5
D	87-352-509-31	VT <sub>2</sub> +1.4-4
E	87-067-324-01	Special screw 1.7-2.5
F	87-239-503-31	Q+1.4-2
G	87-263-500-31	V+1.4-1.4(2)
H	87-261-500-31	V+1.4-1.4[BLACK]
I	87-067-279-01	Q+1.4-1.6[BLACK]
J	87-264-503-31	V+1.4-2
K	87-264-507-31	V+1.4-3
L	87-264-500-31	V+1.4-1.4(3)



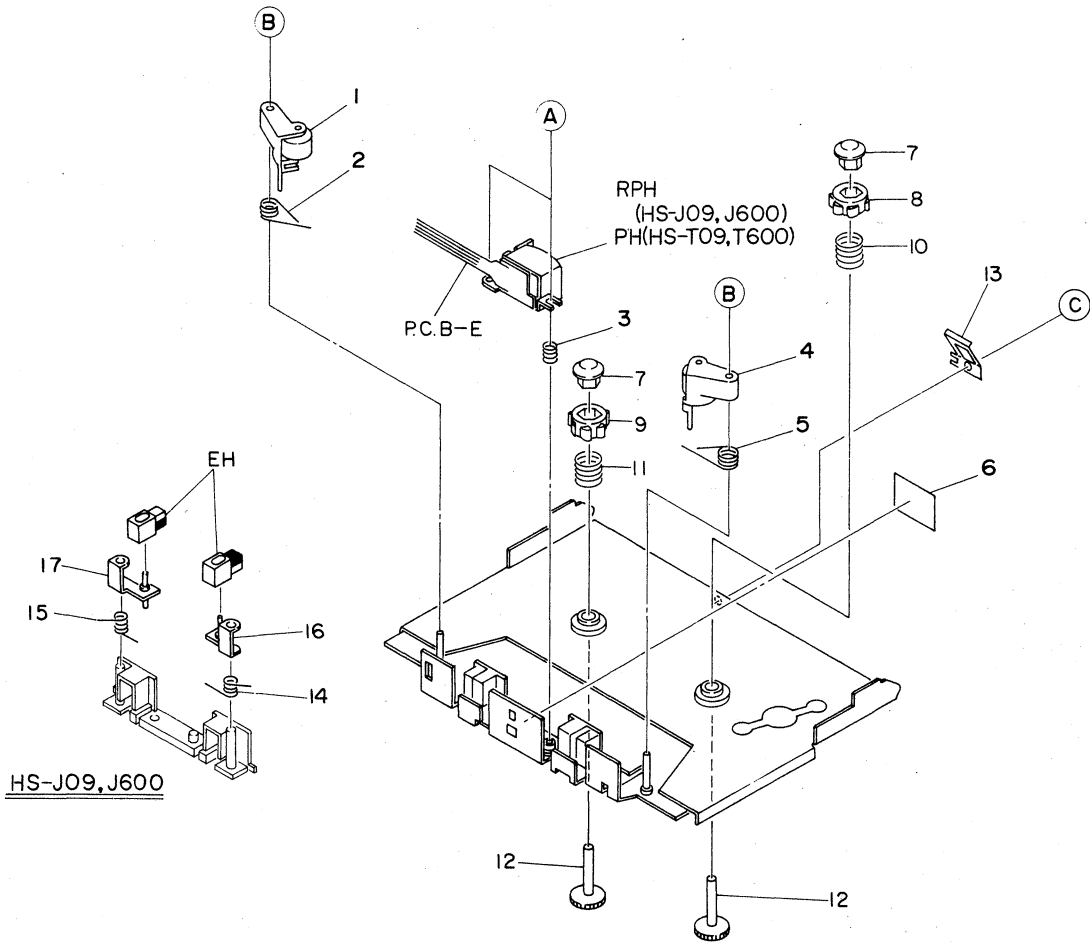
Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1-1	09-027-438	CASSETTE LID Ass'y YS (HS-J09)	※	1
		09-027-439	CASSETTE LID Ass'y YB (HS-J09)	※	1
		09-027-440	CASSETTE LID Ass'y YUS (HS-J600)	※	1
		09-027-441	CASSETTE LID Ass'y YUB (HS-J600)	※	1
		09-027-442	CASSETTE LID Ass'y YS (HS-T09)	※	1
		09-027-443	CASSETTE LID Ass'y YB (HS-T09)	※	1
		09-027-444	CASSETTE LID Ass'y YUB (HS-T600)	※	1
	1-2	---	MYLER 42-4		1
	1-3	---	SHEET 14-65-0.05		1
	1-4	★87-067-288	HINGE SCREW +1.4-1		1
	1-5	★84-417-211	CASSETTE HOLDER Ass'y	※	1
	1-6	★86-530-006	DECORATION PLATE		1
	1-7	★84-417-024	TU CAP	※	1
	1-8	84-417-011	SLIDE KNOB B	※	1
	1-9	84-417-010	SLIDE KNOB A	※	1
	1-10	★09-027-435	JACK PNEU Ass'y (HS-J09, J600)	※	1
		★09-027-434	JACK PANEL Ass'y (HS-T09, T600)	※	1
	1-11	★84-417-006	TU POINTER	※	1
	1-12	★84-417-014	TU KNOB	※	1
	1-13	★84-417-203	TU SHAFT WOAM	※	1
	1-14	84-417-213	GEAR IDLER	※	1
	1-15	★84-417-201	TU CHASSIS	※	1
	1-16	---	HOLDER, TU WOAM		1
	1-17	---	PLATE, ANTENNA		1
	1-18	★84-420-011	SEAL, DIRECTION	HS-P09	2
	1-19	★84-417-206	BATTERY TERMINAL ⊖	※	1
	1-20	---	HOLDER, DC JACK		1
	1-21	★84-417-204	HOLDER, BATTERY TERMINAL	※	1
	1-22	84-417-007	LID, BATTERY S	※	1
		84-417-061	LID, BATTERY B	※	1
	1-23	★82-673-257	BATTERY TERMINAL Ass'y	HS-P06	1
	1-24	★84-417-202	TU DRUM	※	1
	1-25	---	CUSHION, ANTENNA		1
	1-26	★86-530-001	PUSH-BUTTON, PLAY		1
	1-27	★84-420-019	SPACER, JACK (WHITE)	HS-P09	1
	1-28	★09-027-436	CONTROL PANEL Ass'y(HS-J09, J600)	※	1
		★09-027-437	CONTROL PANEL Ass'y(HS-T09, T600)	※	1
	1-29	★84-417-021	SLIDE KNOB, DIRECTION	※	1
	1-30	84-420-007	SLIDE KNOB	HS-P09	3
	1-31	★84-417-076	REAR PANEL S	※	1
		★84-417-077	REAR PANEL B	※	1
	1-32	---	MYLER SHEET 18×9		1
	1-33	---	MYLER WASHER 1.7-4-0.2		2
	1-34	★84-417-005	FRAME	※	1
	1-35	---	PLATE, SPEC.		1
	1-36	---	SEAL, GE (HS-J09, J600)		1
	1-37	---	MYLER 4-6-0.1		1

COLOR DESCRIPTION [S]=SILVER, [B]=BLACK



# EXPLODED VIEW-2

Ref. No.	Part No.	Description
A	87-264-508-31	V+1.4-3.5
B	87-067-228-01	PW1-2.6-0.25
C	87-263-500-31	V+1.4-1.4

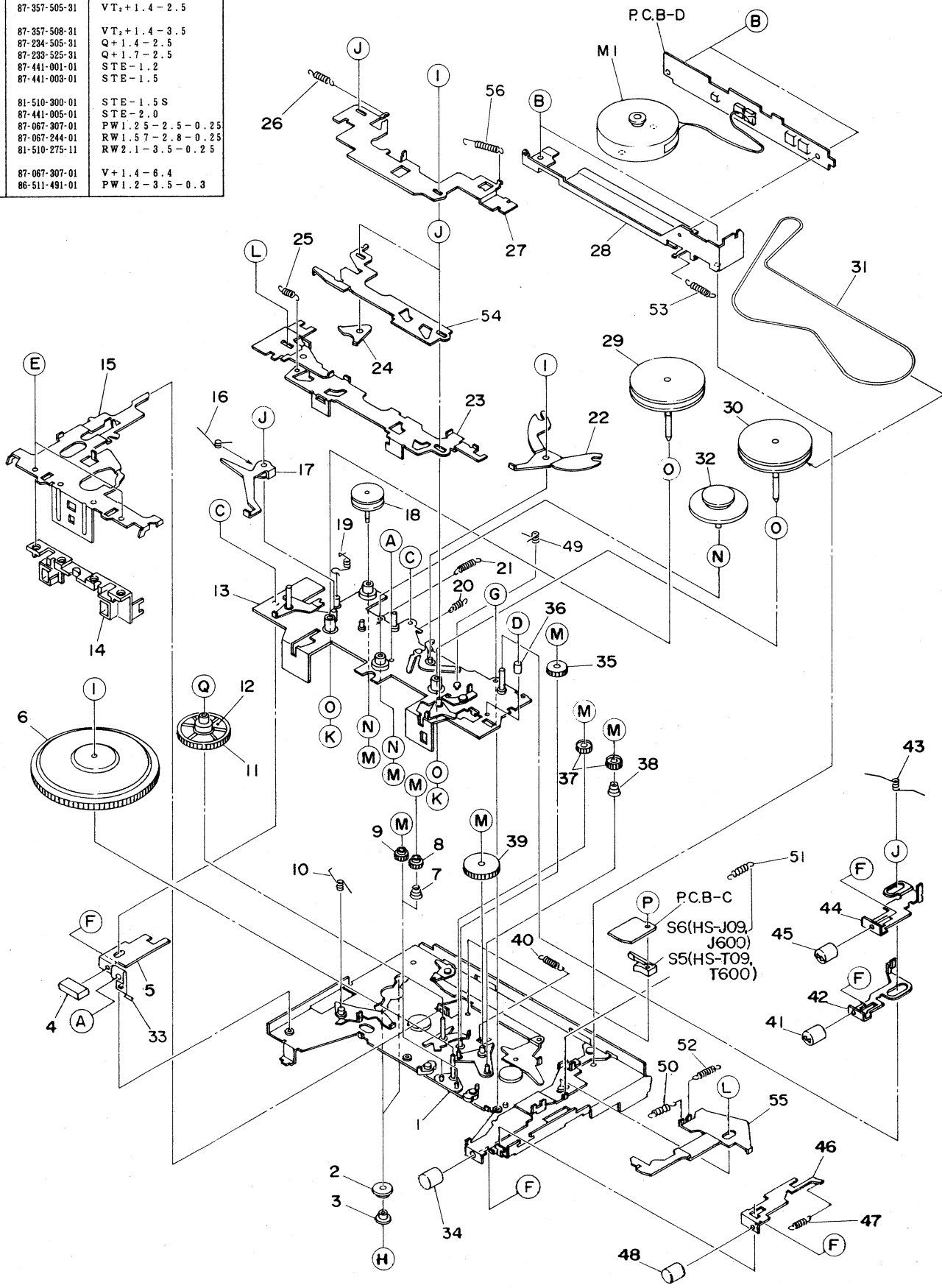


HS-J09, J600

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	2-1	86-530-294	PINCH LEVER Ass'y A		1
	2-2	★86-530-296	T-SPRING, PINCH LEVER A		1
	2-3	★86-530-356	C-SPRING, HEAD		1
	2-4	86-530-297	PINCH LEVER Ass'y B		1
	2-5	★86-530-299	T-SPRING, PINCH LEVER B		1
	2-6	★86-530-018	MYLER, HEAD		1
	2-7	★86-530-276	CAP, REEL PLATFORM		2
	2-8	★86-530-417	REEL SPINNER T		1
	2-9	★86-530-418	REEL SPINNER S		1
	2-10	★86-530-277	C-SPRING, REEL PLATFORM A		1
	2-11	★86-530-343	C-SPRING, REEL PLATFORM B		1
	2-12	★86-530-275	GEAR, REEL PLATFORM		2
	2-13	★86-530-012	P-SPRING, CASSETTE HOLDER		1
	2-14	★86-530-230	T-SPRING, EH-A (HS-J09, J600)		1
	2-15	★86-530-231	T-SPRING, EH-B (HS-J09, J600)		1
	2-16	★86-530-240	EH LEVER A Ass'y (HS-J09, J600)		1
	2-17	★86-530-243	EH LEVER B Ass'y (HS-J09, J600)		1

# EXPLODED VIEW-3

Ref. No.	Part No.	Description
A	87-067-300-01	V+1.4-1.1
B	87-263-500-31	V+1.4-1.4
C	87-264-503-31	V+1.4-2
D	87-263-505-31	V+1.4-2.5
E	87-357-505-31	VT,+1.4-2.5
F	87-357-508-31	VT,+1.4-3.5
G	87-234-505-31	Q+1.4-2.5
H	87-233-525-31	Q+1.7-2.5
I	87-441-001-01	STE-1.2
J	87-441-003-01	STE-1.5
K	81-510-300-01	STE-1.5 S
L	87-441-005-01	STE-2.0
M	87-067-307-01	PW1.25-2.5-0.25
N	87-067-244-01	RW1.57-2.8-0.25
O	81-510-275-11	RW2.1-3.5-0.25
P	87-067-307-01	V+1.4-6.4
Q	86-511-491-01	PW1.2-3.5-0.3



Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	3-1	---	CHASSIS Ass'y B		1
	3-2	★86-530-382	G CUSHION, MOTOR (N)		2
	3-3	★86-530-383	COLLAR, MOTOR (N)		2
	3-4	★86-530-007	PUSH-BUTTON, EJECT (J)		1
	3-5	★86-530-015	EJECT LEVER Ass'y		1
	3-6	★86-530-300	GEAR Ass'y A		1
	3-7	★86-530-314	C-SPRING, GEAR I		1
	3-8	★86-530-311	GEAR I		1
	3-9	★86-530-260	GEAR K		1
	3-10	★86-530-327	T-SPRING, EJECT BLOCKING LEVER		1
	3-11	★86-530-310	GEAR H		1
	3-12	★86-530-351	SHEET, GEAR H		1
	3-13	---	CHASSIS A Ass'y		1
	3-14	★86-530-227	TAPE GUIDE		1
	3-15	★86-530-224	HEAD CHASSIS Ass'y		1
	3-16	★86-530-329	T-SPRING, SELECTOR LEVER		1
	3-17	★86-530-331	ARM SELECT		1
	3-18	86-530-287	FW C Ass'y		1
	3-19	★86-530-325	T-SPRING, REVERSE LEVER C		1
	3-20	★86-530-322	E-SPRING, GEAR G LEVER		1
	3-21	★86-530-323	E-SPRING, HEAD CHASSIS		1
	3-22	★86-530-222	LEVER, REVERSE B		1
	3-23	★86-530-233	REVERSE LEVER C Ass'y		1
	3-24	★86-530-239	LEVER, FWD START		1
	3-25	★86-530-372	E-SPRING, LOCK EJECT A		1
	3-26	★86-530-316	E-SPRING, LOCK LEVER (J)		1
	3-27	★86-530-237	LEVER, LOCK (J) (HS-J09, J600)		1
		★86-530-423	LEVER, LOCK (R) (HS-T09, T600)		1
	3-28	---	HOLDER, BATTERY (J)		1
	3-29	86-530-286	FW B Ass'y		1
	3-30	86-530-282	FW A Ass'y		1
	3-31	86-530-293	BELT, MAIN		1
	3-32	86-530-290	FW D Ass'y		1
	3-33	★86-530-017	P-SPRING, EJECT		1
	3-34	★86-530-003	PUSH-BUTTON, REC C (HS-J09, J600)		1
	3-35	★86-530-308	GEAR F		1
	3-36	★86-530-375	COLLAR 1.7		1
	3-37	★86-530-306	GEAR D		2
	3-38	★86-530-312	C-SPRING, GEAR D		1
	3-39	★86-530-309	GEAR G		1
	3-40	★86-530-328	E-SPRING, FR RESTRICTION		1
	3-41	★86-530-002	PUSH-BUTTON, FF		1
	3-42	★86-530-219	LEVER, FF (J)		1
	3-43	★86-530-326	T-SPRING, FR LEVER		1
	3-44	★86-530-220	LEVER, REW (J)		1

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	3-45	★86-530-009	PUSH-BUTTON, REW		1
	3-46	★86-530-245	LEVER, STOP (J)		1
	3-47	★86-530-320	E-SPRING, STOP LEVER		1
	3-48	★86-530-005	PUSH-BUTTON, STOP (R) (HS-T09, T600)		1
		★86-530-004	PUSH-BUTTON, STOP (J) (HS-J09, J600)		1
	3-49	★86-530-385	T-SPRING, GEAR EJECT		1
	3-50	★86-530-317	E-SPRING, REC BLOCKING LEVER E (HS-J09, J600)		1
	3-51	★86-530-318	E-SPRING, REC LEVER A (HS-J09, J600)		1
	3-52	★86-530-324	E-SPRING, REC BLOCKING LEVER D (HS-J09, J600)		1
	3-53	★86-530-319	E-SPRING, REC BLOCKING LEVER A (HS-J09, J600)		1
	3-54	★86-530-238	LEVER, REC C (HS-J09, J600)		1
	3-55	★86-530-257	LEVER, REC BLOCKING E (HS-J09, J600)		1
	3-56	★86-530-321	E-SPRING, REC LOCK LEVER (HS-J09, J600)		1

## ■ ACCESSORIES/PACKAGE LIST

### HS-J09,J600

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1	★84-417-905	INSTRUCTION BOOKLET (HS-J09)	※	1
	2	★84-417-906	INSTRUCTION BOOKLET (HS-J600)	※	1
	3	★84-417-951	CARRYING CASE (B)	※	1
	4	★87-041-048	STEREO MIC		1
	5	★87-048-121	HP-M11 (EXCEPT AH1)		1
		★87-048-123	HEADPHONE HP-06 (AH1 ONLY)		1

### HS-T09,T600

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1	★84-418-905	INSTRUCTION BOOKLET (HS-T09)	※	1
	2	★84-418-906	INSTRUCTION BOOKLET (HS-T600)	※	1
	3	★84-417-951	CARRYING CASE	HS-J09/J600	1
	4	★87-048-121	HP-M11 (EXCEPT Y1)		1
	5	★87-048-123	HEADPHONE HP-06 (Y1 ONLY)		1

**AIWA Co., Ltd. Tokyo Japan**