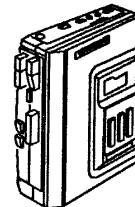


AIWA®

SERVICE MANUAL

**HS-T40/T40A
HS-T30/T30A
HS-T28
HS-RD7/RD7A**



HS - T30

STEREO RADIO CASSETTE PLAYER

- BASIC TAPE MECHANISM : α - 1MK II

- TYPE. Y,YZ (T40/T30/T28/RD7)
YU (T40A/T30A/RD7A)

SPECIFICATIONS

Frequency range:

FM: 87.5—108 MHz
AM: 530—1705 kHz (U.S.A. model)
530—1605 kHz (Other models)

Maximum output:

20mW + 20mW (EIAJ/16Ω)
15mW + 15mW (EIAJ/32Ω)

Power source:

Battery DC 3V, R6P (LR6, SUM-3,
AA) × 2
Domestic AC power (using optional
AC adaptor: AIWA AC-620)

Battery life:

Using manganese batteries (R6P,
SUM-3, AA)
Approx. 5 hours (EIAJ, 1 mW
output, playback mode)
Using alkaline batteries (LR6,
AM-3, AA)
Approx. 10 hours (EIAJ, 1 mW
output, playback mode)

Maximum dimensions (W × H × D):

HS-T28/T30/T30A/RD7/RD7A:
92 × 120.5 × 37.5 mm
HS-T40/T40A: 92 × 120.5 × 38 mm

Weight: 265g (including batteries)

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby", the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
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AIWA Co., Ltd.

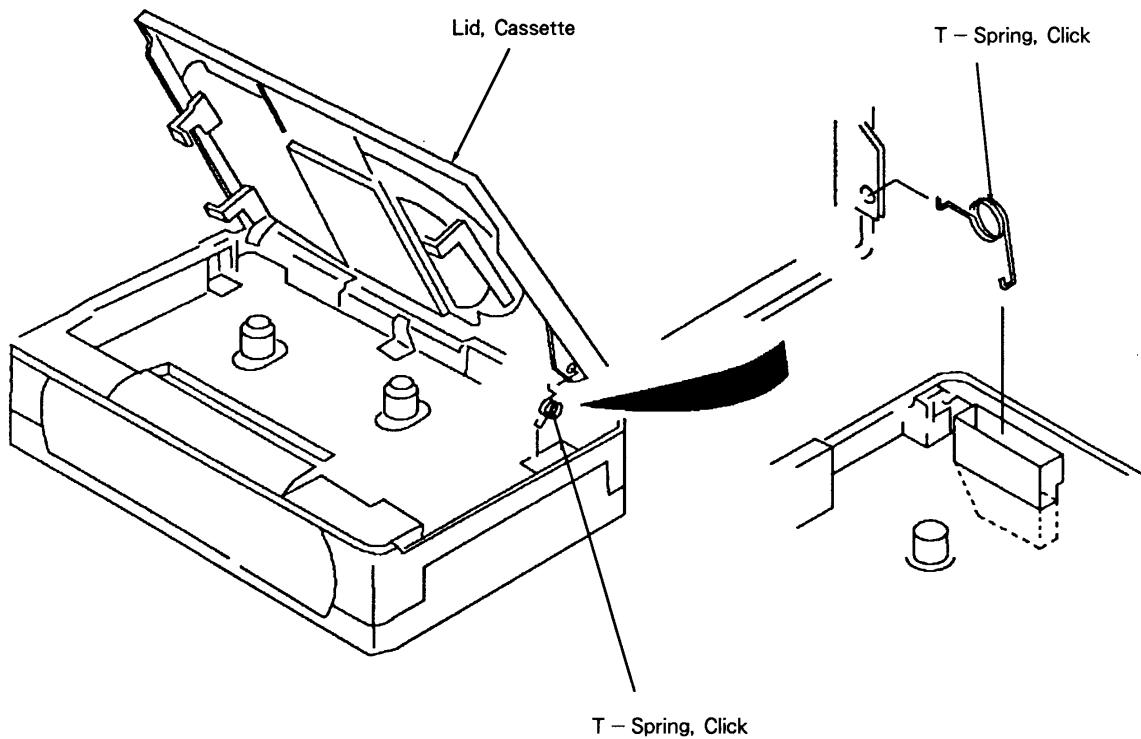
Tokyo Japan

Printed in Japan

DISASSEMBLY INSTRUCTIONS

To hook the Spring to the "Lid, Cassette"

- 1) When reinstalling hook the "T - Spring, Click" as shown in the figure.



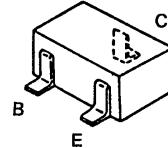
PRACTICAL SERVICE FIGURE

< RADIO SECTION >

Sensitivity :	FM $14 \pm 5\text{dB}$ (88MHz) (IHF THD 3%)
	12 $\pm 5\text{dB}$ (100 / 108MHz)
(S/N 10dB)	AM $55 \pm 4\text{dB}$ (Y,YZ 600kHz YU 630kHz)
	52 $\pm 4\text{dB}$ (1000kHz)
	51 $\pm 4\text{dB}$ (Y,YZ 1400kHz YU 1500kHz)

Intermediate frequency : FM $10.7 \pm 0.1\text{MHz}$
AM $468\text{kHz} \pm 3\text{kHz}$

FM stereo separation : FM $20 \pm 4\text{dB}$



2SA1296
2SC2712
2SC2714
RN1411
RN2407

< TAPE PLAYER SECTION >

Wow & flutter :	Less than 0.48 % (JIS,RMS)
Pinch roller pressure :	$180 \pm 20\text{g}$
Take-up torque :	$25 \sim 45\text{g}\cdot\text{cm}$ (FWD/REV)
F.F & Rew torque :	$120 \pm 25\text{g}\cdot\text{cm}$
Back tension :	$2.5 \pm 1\text{g}\cdot\text{cm}$ (FWD/REV)
S/N ratio :	46 $\pm 3\text{dB}$ (DC) (T40/T40A) More than 43dB (DC) (T30/T30A/ T28/RD7/RD7A)
Distortion :	Less than 3.0 %
Noise level :	Less than 4.0mV (VOL MAX AC)
Frequency response :	63Hz \sim 8kHz $\pm 4.5\text{dB}$ (NORMAL) 63Hz \sim 10kHz $\pm 4.5\text{dB}$ (CrO ₂ , METAL)

ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
---	---		C21	*87-010-193-019	CAP,CHIP S 0.033-25 F(T30)
---	IC		C22	*87-010-452-019	CAP,CHIP 1-16 F(T40)
	87-001-351-019	IC,AN6612S	C22	*87-010-493-019	CAP,ELECT 0.47-50 GAS(T28/RD7)
	87-001-934-019	IC,BA1106F(T30/T40)	C22	*87-010-193-019	CAP,CHIP S 0.033-25 F(T30)
	87-001-935-010	IC,LA4581M	C23	*87-010-186-019	CAP,CHIP S 4700P-50 B(T40)
	87-001-379-019	IC,TA8122AF	C23	*87-010-196-019	CAP,CHIP S 0.1-25 F(T30)
---	TRANSISTOR		C24	*87-010-186-019	CAP,CHIP S 4700P-50 B(T40)
	89-112-964-019	TRANSISTOR,2SA1296Y	C24	*87-010-196-019	CAP,CHIP S 0.1-25 F(T30)
	89-327-125-019	TRANSISTOR,2SC2712GR	C25	*87-010-193-019	CAP,CHIP S 0.033-25 F(T40)
	89-327-143-019	TRANSISTOR,2SC2714(0)	C25	*87-010-452-019	CAP,CHIP S 1-16 F(T30)
	87-026-264-019	TRANSISTOR,RN1411(T30/T40)	C26	*87-010-193-019	CAP,CHIP S 0.033-25 F(T40)
	87-026-267-019	TRANSISTOR,RN2407	C26	*87-010-452-019	CAP,CHIP S 1-16 F(T30)
---	DIODE		C27	*87-010-197-019	CAP,CHIP S 0.01 B(T40)
	87-020-027-019	DIODE,1SS184(T28/RD7)	C27	*87-010-503-019	CAP,ELECT 220-4 GAS(T30)
	87-020-339-019	DIODE,CHIP 1SS226	C28	*87-010-197-019	CAP,CHIP S 0.01 B(T40)
---	MAIN CIRCUIT BOARD SECTION		C28	*87-010-501-019	CAP,ELECT 47-4 GAS(T30)
BPF201	87-030-136-010	FILTER,BPMB8L7.0	C29	*87-010-193-019	CAP,CHIP S 0.033-25 F(T40)
C1	*87-010-177-019	CAP,CHIP S 820P-50 SL	C29	*87-010-197-019	CAP,CHIP S 0.01 B(T30)
C2	*87-010-177-019	CAP,CHIP S 820P-50 SL	C30	*87-010-193-019	CAP,CHIP S 0.033-25 F(T40)
C3	*87-010-501-019	CAP,ELECT 47-4 GAS(T30/T40)	C30	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T30)
C3	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T28/RD7)	C31	*87-010-196-019	CAP,CHIP S 0.1-25 F(T40)
C4	*87-010-501-019	CAP,ELECT 47-4 GAS(T30/T40)	C31	*87-010-498-019	CAP,ELECT 10-16 GAS(T30)
C4	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T28/RD7)	C32	*87-010-196-019	CAP,CHIP S 0.1-25 F(T40)
C5	*87-010-426-019	CAP,CHIP S 0.012-25 B(T30/T40)	C32	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T30)
C5	*87-010-186-019	CAP,CHIP S 4700P-50 B(T28/RD7)	C33	*87-010-503-019	CAP,ELECT 220-4 GAS(T30/T40)
C6	*87-010-426-019	CAP,CHIP S 0.012-25 B(T30/T40)	C34	*87-010-501-019	CAP,ELECT 47-4 GAS(T40)
C6	*87-010-186-019	CAP,CHIP S 4700P-50 B(T28/RD7)	C34	*87-010-495-019	CAP,ELECT 2.2-50 GAS(T30)
C7	*87-010-426-019	CAP,CHIP S 0.012-25 B(T30/T40)	C35	*87-010-452-019	CAP,CHIP 1-16 F(T40)
C7	*87-012-141-019	CAP,CHIP S 0.022-16 F(T28/RD7)	C35	*87-010-493-019	CAP,ELECT 0.47-50 GAS(T30)
C8	*87-010-426-019	CAP,CHIP S 0.012-25 B	C36	*87-010-196-019	CAP,CHIP 1-16 F(T40)
C8	*87-012-141-019	CAP,CHIP S 0.22-16 F(T28/RD7)	C36	*87-010-494-019	CAP,ELECT 1-50 GAS(T30)
C9	*87-010-179-019	CAP,CHIP S 1200P-50 B	C37	*87-010-196-019	CAP,CHIP S 0.1-25 F(T40)
C10	*87-010-179-019	CAP,CHIP S 1200P-50 B	C38	*87-010-196-019	CAP,CHIP S 0.1-25 F(T40)
C11	*87-012-141-019	CAP,CHIP S 0.22-16 F(T30/T40)	C39	*87-010-493-019	CAP,ELECT 0.47-50 GAS(T40)
C11	*87-010-452-019	CAP,CHIP S 1-16 F(T28/RD7)	C40	*87-010-494-019	CAP,ELECT 1-50 GAS(T40)
C12	*87-012-141-019	CAP,CHIP S 0.22-16 F(T30/T40)	C201	*87-010-315-019	CAP,CHIP S 27P-50 CH
C12	*87-010-452-019	CAP,CHIP 1-16 F(T28)	C202	*87-010-315-019	CAP,CHIP S 27P-50 CH
C13	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T40)	C203	*87-010-197-019	CAP,CHIP S 0.01 B
C13	*87-010-494-019	CAP,ELECT 1-50 GAS(T28/RD7)	C204	*87-010-314-019	CAP,CHIP S 22P-50 CH(T40)
C13	*87-010-452-019	CAP,CHIP 1-16 F(T30)	C204	*87-010-312-019	CAP,CHIP S 15P CH(T30/T28/RD7)
C14	*87-010-197-019	CAP,CHIP S 0.01 B(T28/RD7/T40)	C205	*87-010-452-019	CAP,CHIP 1-16 F
C14	*87-010-452-019	CAP,CHIP 1-16 F(T30)	C206	*87-010-197-019	CAP,CHIP S 0.01 B
C15	*87-010-495-019	CAP,ELECT 2.2-50 GAS(T40)	C207	*87-010-154-019	CAP,CHIP S 10P CH(EXCEPT U)
C15	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T28/RD7)	C207	*87-010-150-019	CAP,CHIP S 6P CH(U ONLY)
C15	*87-010-193-019	CAP,CHIP S 0.033-25 F(T30)	C208	*87-010-197-019	CAP,CHIP S 0.01 B
C16	*87-010-501-019	CAP,ELECT 47-4 GAS(T28/RD7/T40)	C209	*87-012-140-019	CAP,CHIP S 470P-50 CH
C16	*87-010-193-019	CAP,CHIP S 0.033-25 F(T30)	C210	*87-010-452-019	CAP,CHIP 1-16 F
C17	*87-010-499-019	CAP,ELECT 22-6.3 GAS(T40)	C211	*87-010-196-019	CAP,CHIP S 0.1-25 F
C17	*87-010-503-019	CAP,ELECT 220-4 GAS(T28)	C212	*87-010-195-019	CAP,CHIP S 0.068-25 F
C18	*87-010-495-019	CAP,ELECT 2.5-50 GAS(T28/RD7)	C213	*87-010-196-019	CAP,CHIP S 0.1-25 F
C18	*87-010-186-019	CAP,CHIP S 4700P-50 B(T30)	C214	*87-010-501-019	CAP,ELECT 47-4 GAS
C19	*87-010-452-019	CAP,CHIP 1-16 F(T40)	C215	*87-015-834-019	CAP,CHIP S 0.033-25
C19	*87-010-193-019	CAP,CHIP S 0.033-25 F(T28/RD7)	C216	*87-010-322-019	CAP,CHIP S 100P CH
C19	*87-010-197-019	CAP,CHIP S 0.01 B(T30)	C217	*87-010-197-019	CAP,CHIP S 0.01 B
C20	*87-010-496-019	CAP,ELECT 3.3-50 GAS(T40)	C218	*87-010-195-019	CAP,CHIP S 0.068-25 F
C20	*87-010-193-019	CAP,CHIP S 0.033-25 F(T28/RD7)	C219	*87-010-196-019	CAP,CHIP S 0.1-25 F
C20	*87-010-197-019	CAP,CHIP S 0.01 B(T30)	C220	*87-010-184-019	CAP,CHIP S 3300P-50 B(T30/T40)
C21	*87-010-452-019	CAP,CHIP 1-16 F(T40)	C220	*87-010-503-019	CAP,ELECT 220-4 GAS(T28/RD7)
C21	*87-010-494-019	CAP,ELECT 1-50 GAS(T28/RD7)	C221	*87-010-452-019	CAP,CHIP 1-16 F
C21	*87-010-494-019	CAP,ELECT 1-50 GAS(T28/RD7)	C222	*87-010-452-019	CAP,CHIP 1-16 F
C223	*87-010-191-019	CAP,CHIP S 0.015-50 F(T30/T40)	C223	*87-010-191-019	CAP,CHIP S 0.015-50 F(T30/T40)
C223	*87-010-177-019	CAP,CHIP S 820P-50 SL(T28/RD7)	C224	*87-010-191-019	CAP,CHIP S 0.015-50 F(T30/T40)
C224	*87-018-177-019	CAP,CHIP S 820P-50 SL(T28/RD7)	C224	*87-018-177-019	CAP,CHIP S 820P-50 SL(T28/RD7)

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION	
C225	*87-010-178-019	CAP,CHIP S 1000P-50 B	S4	87-036-109-019	PUSH SW(PLAY)(T28/RD7)	
C226	*87-010-318-019	CAP,CHIP S 47P-50 CH	S5	87-036-109-019	PUSH SW(PLAY)(T30/T40)	
C227	*87-010-149-019	CAP,CHIP S 5P-50 CH(EXCEPT U)	S201	87-036-021-010	SLIDE SW(BAND)	
C227	*87-010-145-019	CAP,CHIP S 1P CH(U ONLY)	SFR1	*87-024-197-019	SFR,1K	
C228	*87-010-503-019	CAP,ELECT 220-4 GAS(T30/T40)	SFR2	*87-024-197-019	SFR,1K(T30/T40)	
C228	*87-010-318-019	CAP,CHIP S 47P-50 CH(T28/RD7)	SFR3	*87-024-050-019	SFR,1K(T30/T40)	
C229	*87-010-318-019	CAP,CHIP S 47P-50 CH(T30/T40)	TH1	87-026-256-010	THERMISTER,HT-100	
CF201	87-008-444-019	FILTER,KIT FM 5RANK	VC201	87-011-231-019	TUN-CAP,5.5-20P(TUNING)	
CF203	+++	FILTER,KIT FM 5RANK	VC202	+++	TUN-CAP,5.5-20P(TUNING)	
CF202	87-008-284-019	FILTER,PFB 468J	VC203	+++	TUN-CAP,5.5-20P(TUNING)	
CF204	87-030-200-019	RESONATER,CERAMIC CSB 456 F16	VC204	+++	TUN-CAP,5.5-20P(TUNING)	
D2	87-020-520-019	LED,TLR226(OP/BAT)(T30/T28/RD7)	TC201	+++	TUN-CAP,5.5-20P	
D3	87-020-520-019	LED,TLR226(OP/BAT)(T40)	TC202	+++	TUN-CAP,5.5-20P	
J1	87-049-861-019	JACK,3.5 ST(PHONES)	TC203	+++	TUN-CAP,5.5-20P	
J2	87-009-022-019	DC JACK LONG(DC3V)	TC204	+++	TUN-CAP,5.5-20P	
L1	*87-003-143-019	COIL,4.7UH	VR1	87-024-326-019	VR,20KAX2(VOLUME)	
L2	*87-003-142-019	COIL,CHOKE 3.3UH	--- BBE CIRCUIT BOARD SECTION(HS-T40) ---			
L3	*87-003-141-019	COIL,CHOKE 1.2UH	80-HR6-601-010 BBE ASSY(W/PCB-B)			
L4	*87-003-089-019	COIL,47UH	--- HEAD CIRCUIT BOARD SECTION ---			
L201	*80-HJ6-603-019	COIL,RF FM	87-046-346-019 PH ASSY(W/PCB-C)			
L202	*80-HJ6-604-019	COIL,OSC FM	87-033-219-019 FLEXIBLE CIRCUIT BOARD			
L203	*80-HJ6-602-019	COIL,BAR-ANTENNA AM	PH1 87-046-333-019 P HEAD			
L204	*87-007-276-019	COIL,OSC AM	S1 86-567-601-019 SLIDE SWITCH(FWD/REV)			
L205	87-008-447-019	IFT,AM	--- GEQ CIRCUIT BOARD SECTION(HS-T30/T28/RD7) ---			
L206	*80-HJ6-605-019	COIL,LOADING	84-479-601-019 GEQ ASSY(W/PCB-D)			
R23	87-025-433-019	RES, PTR 0.51-4300 PPM (T28/RD7)	--- MISCELLANEOUS ---			
R28	87-025-433-019	RES, PTR 0.51-4300 PPM (T30)	M1 87-045-300-019 MOTOR(BDH3B)			
R40	87-025-433-019	RES, PTR 0.51-4300 PPM (T40)				
S2	87-036-204-010	SLIDE SW(TAPE/FM MODE)				
S3	87-036-204-010	SLIDE SW(DOLBY NR)(T30/T40)				
S3	87-036-020-010	SLIDE SW(FUNCTION)(T28/RD7)				
S4	87-036-020-010	SLIDE SW(FUNCTION)(T30/T40)				

NOTE :

T40 = HS - T40/T40A

T30 = HS - T30/T30A

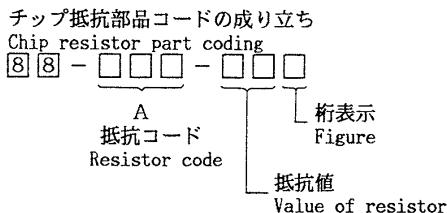
T28 = HS - T28

RD7 = HS - RD7/RD7A

EXCEPT U = HS - T40/T30/T28/RD7

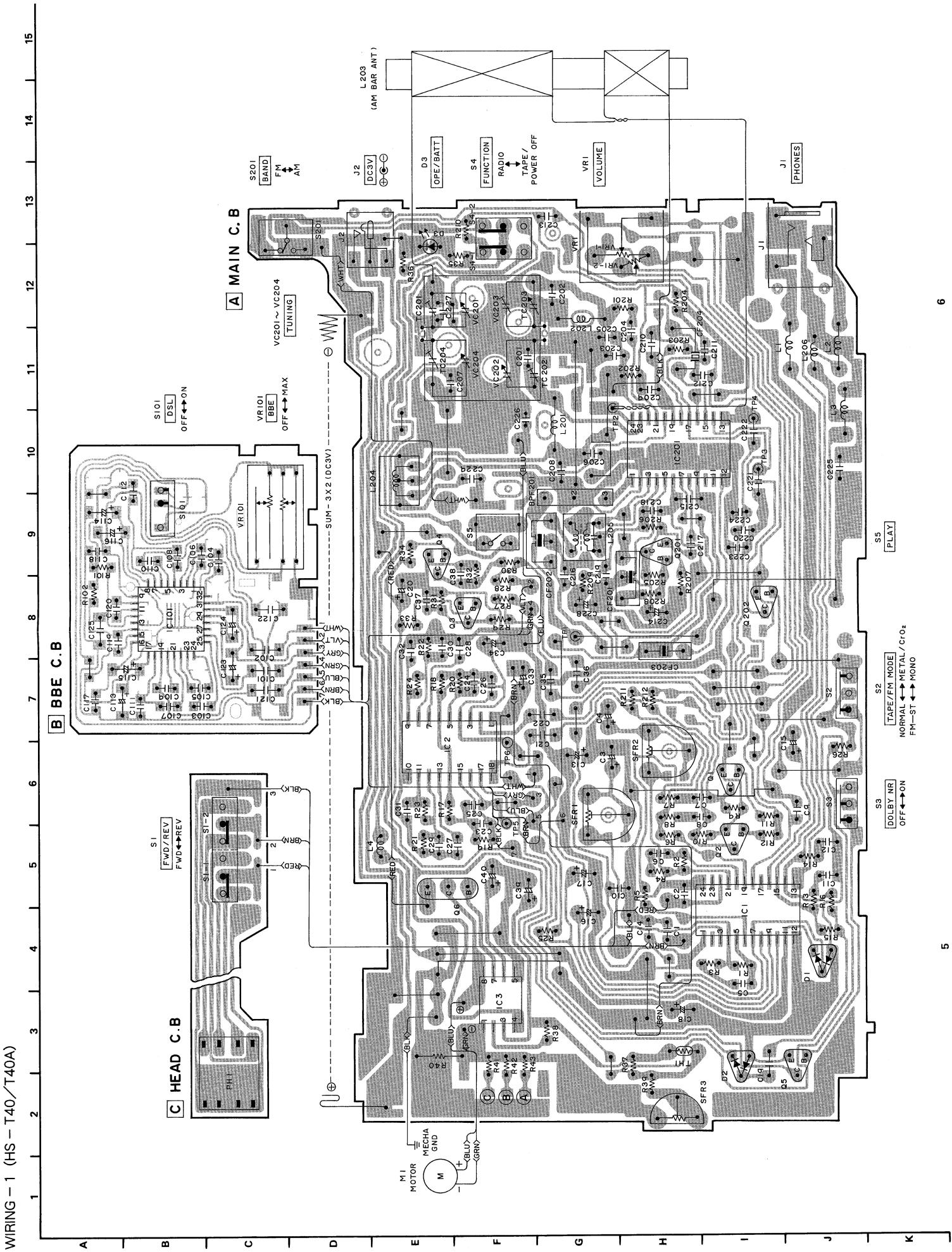
U ONLY = HS - T40A/T30A/RD7A

○チップ抵抗部品コード / CHIP RESISTOR PART CODE

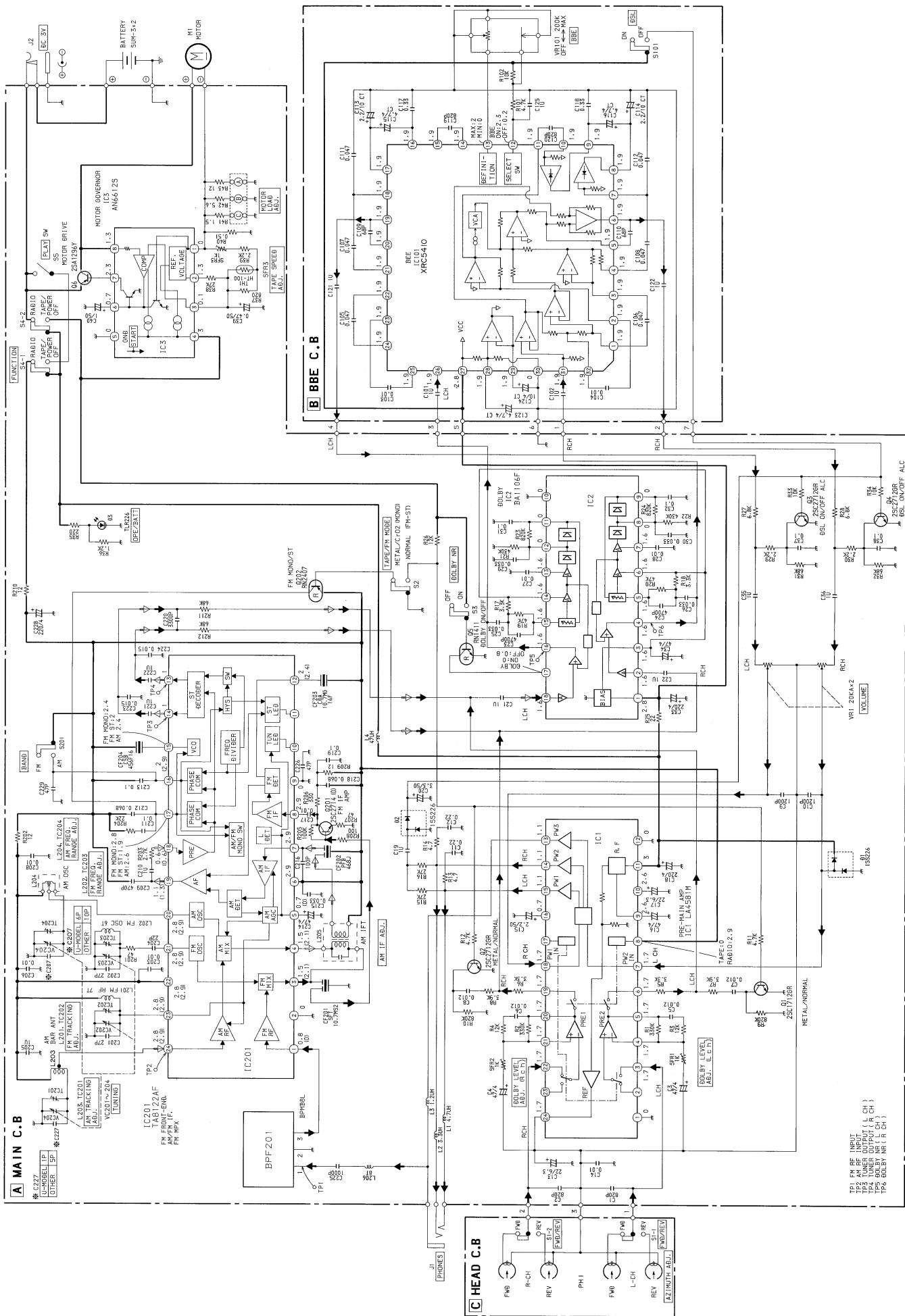


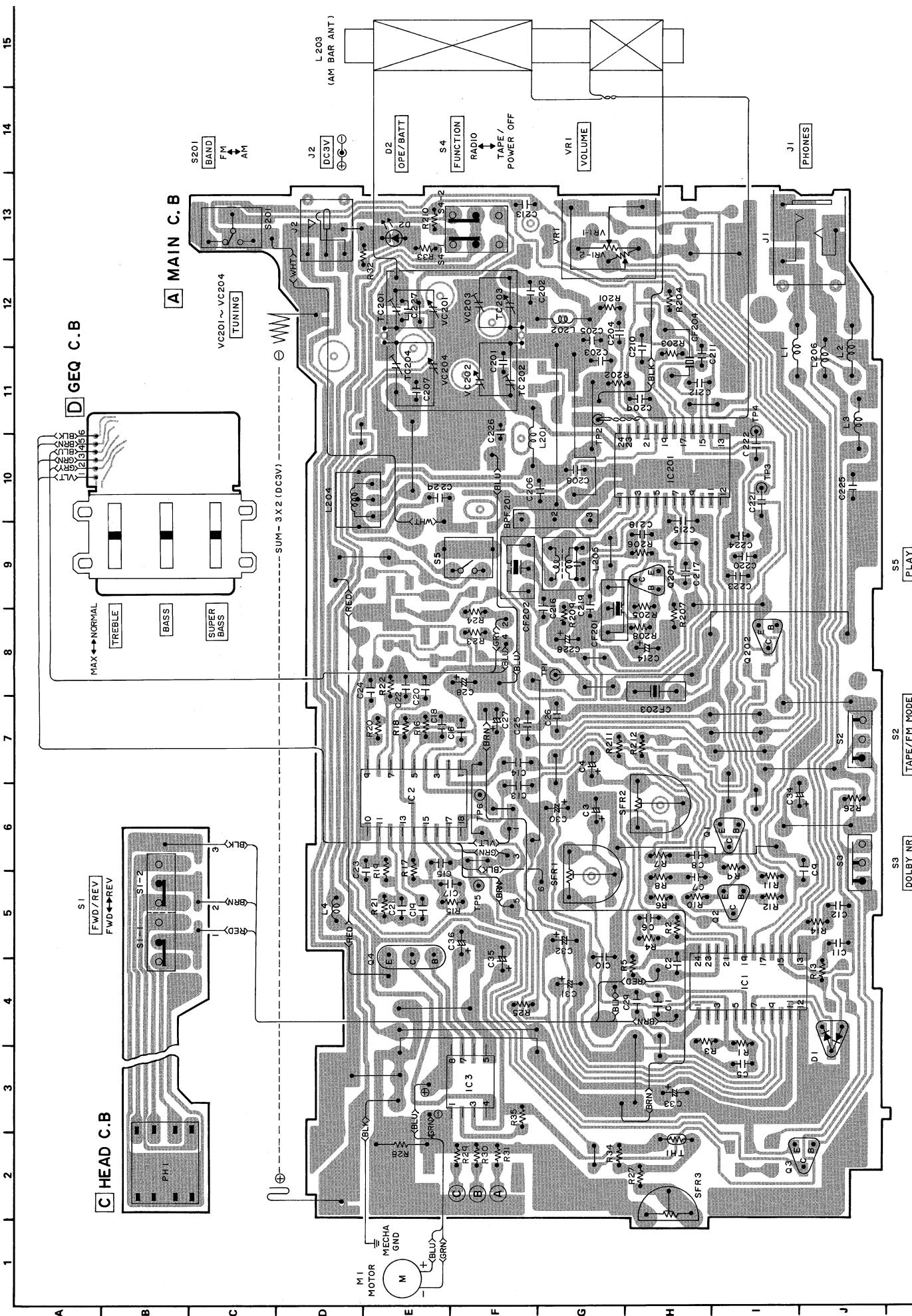
チップ抵抗 Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions / 尺寸(mm)			Resistor Code : A 抵抗コード : A
				Form/外形	L	W	
1/32W	1608	±5%	CJ		1.6	0.8	0.35 108
1/10W	2125	±5%	CJ		2	1.25	1.45 118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7 128

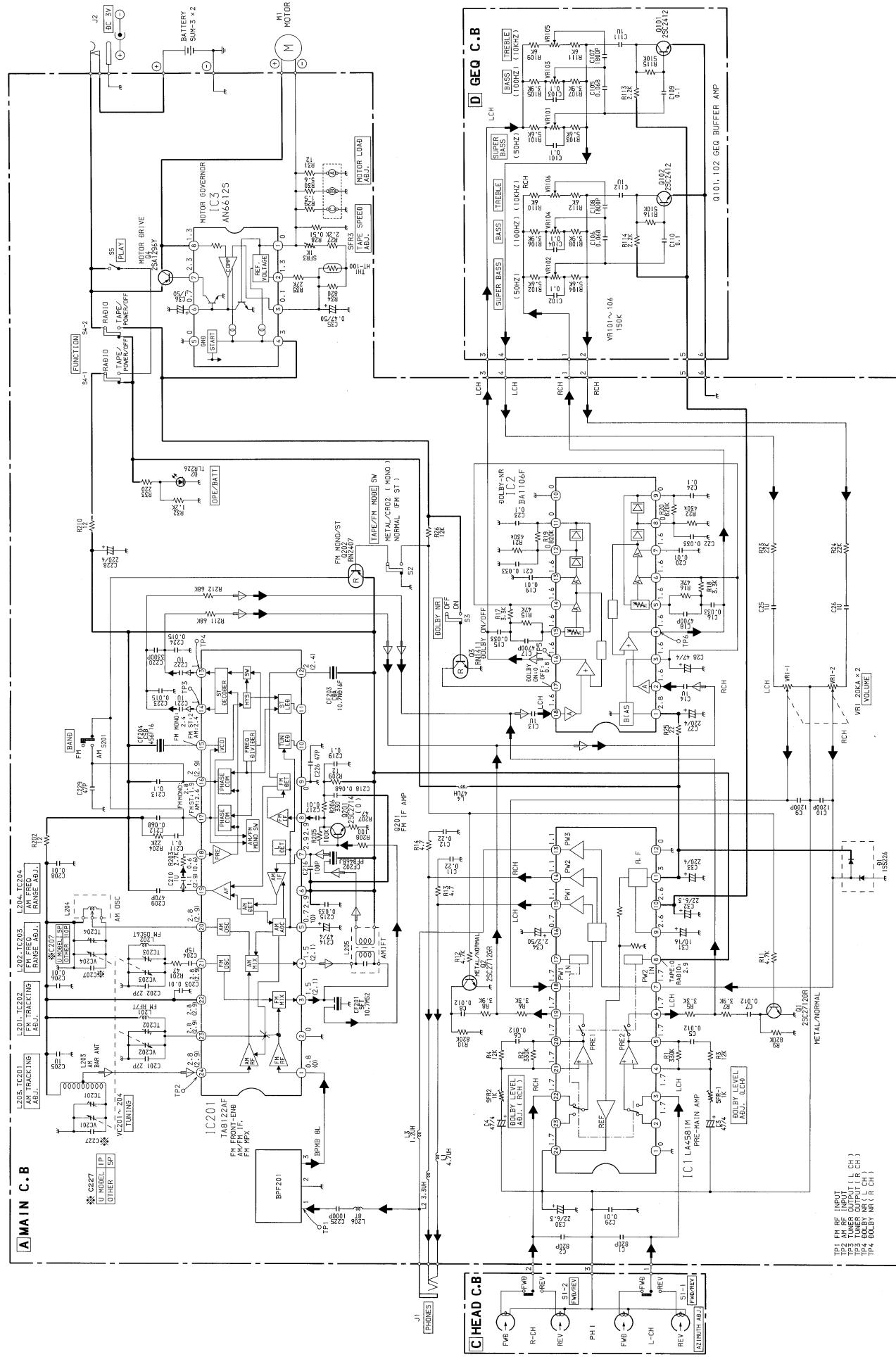


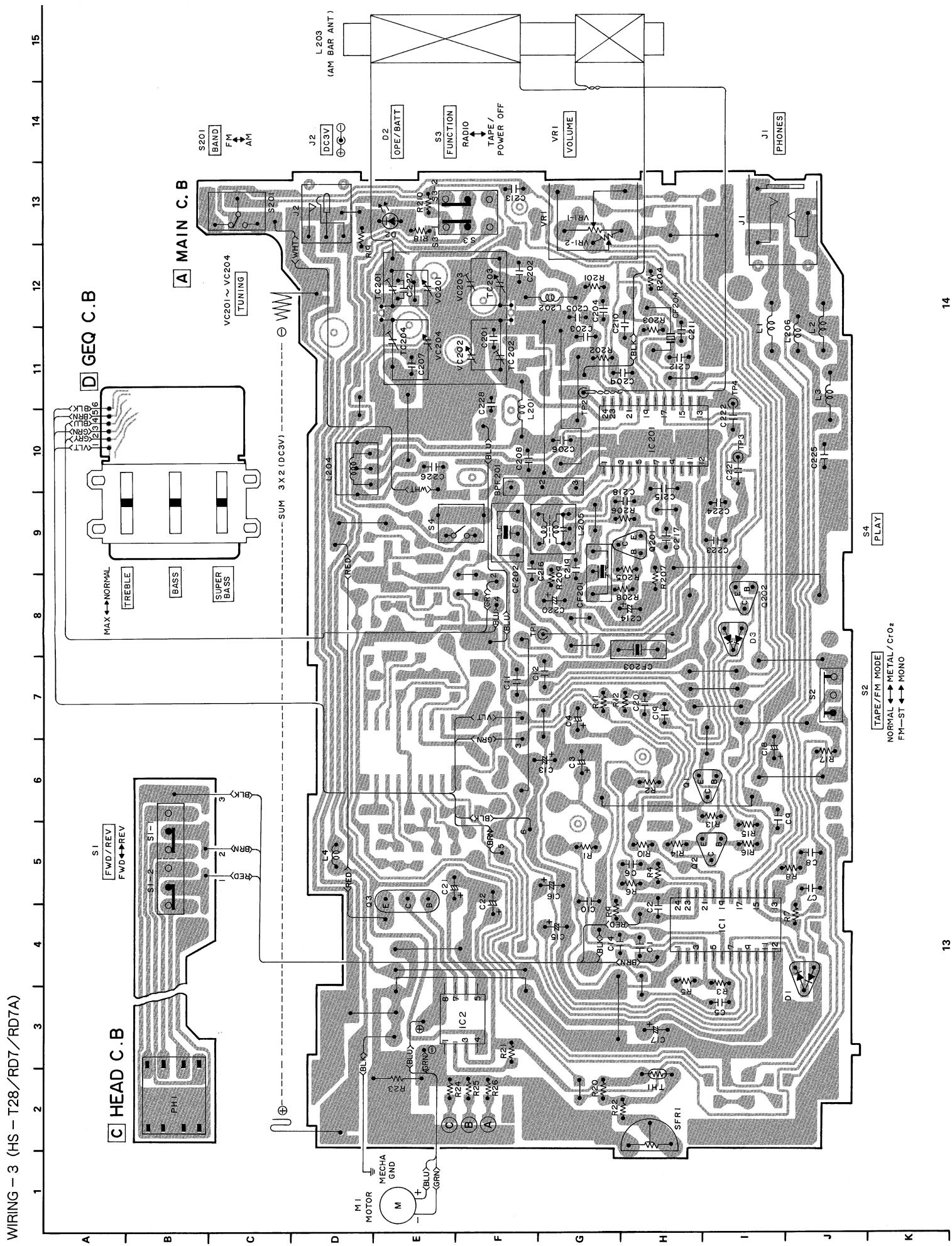
SCHEMATIC DIAGRAM - 1 (HS - T40/T40A)



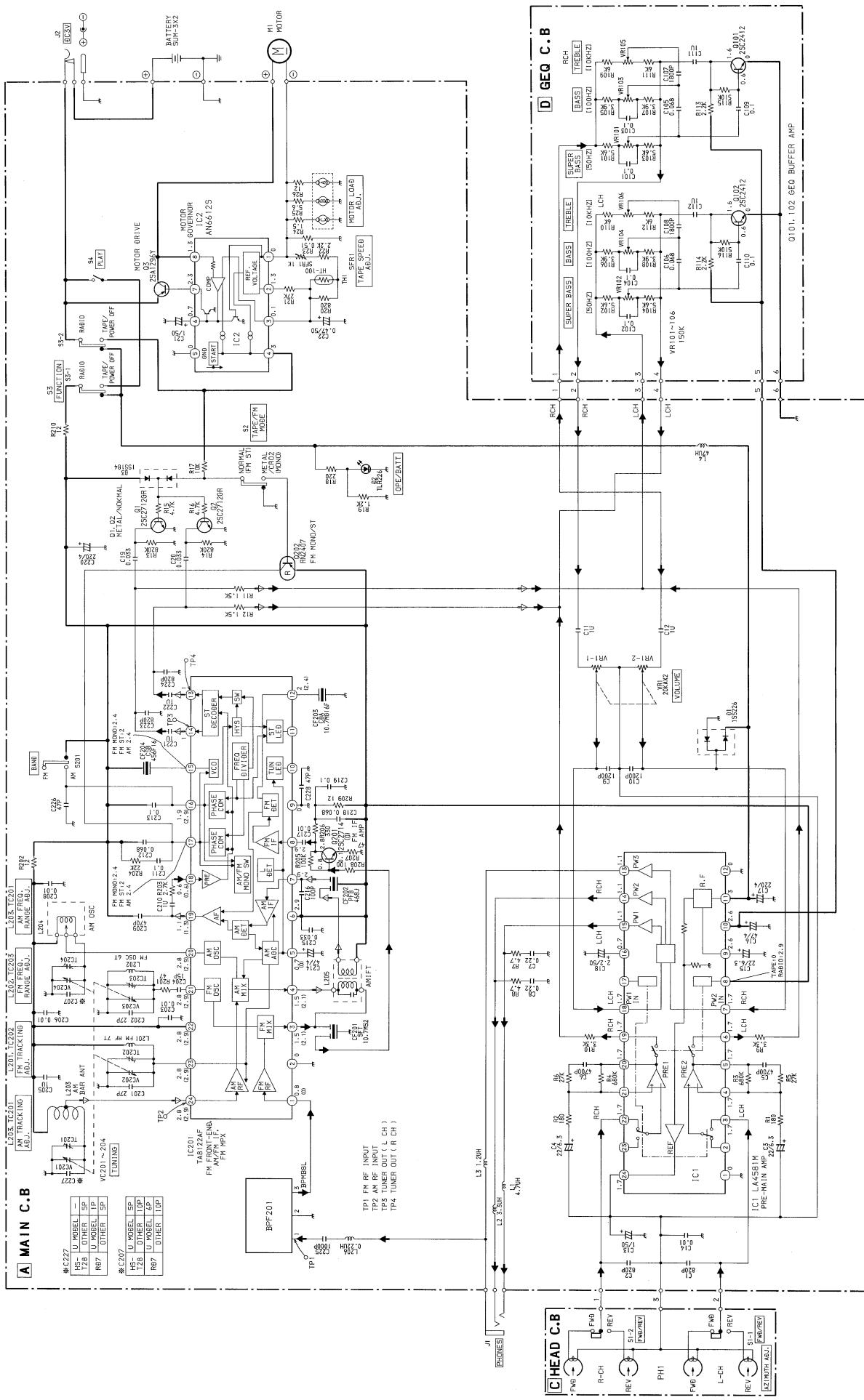


SCHEMATIC DIAGRAM – 2 (HS – T30/T30A)

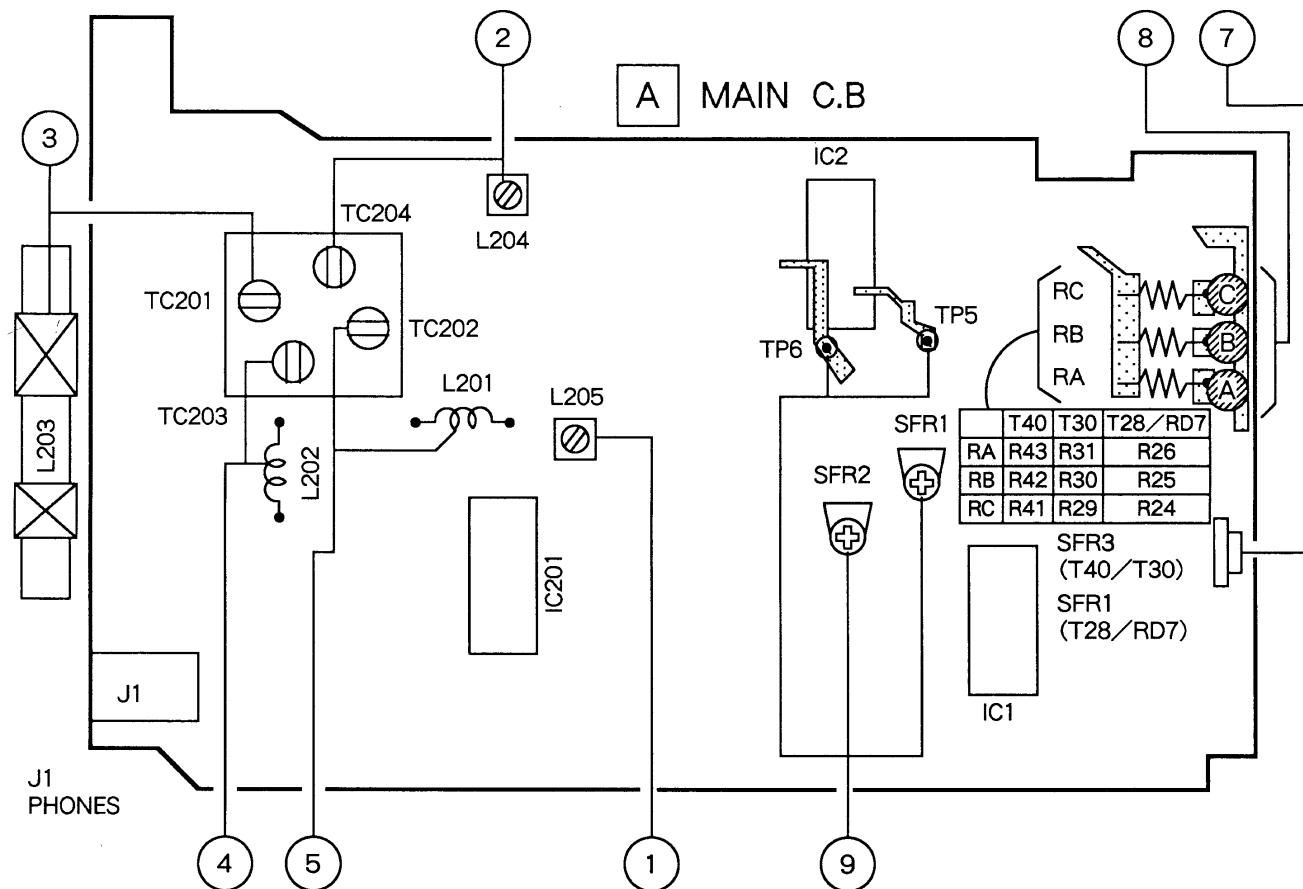




SCHEMATIC DIAGRAM - 3 (HS - T28/RD7/RD7A)



ADJUSTMENT



< RADIO SECTION >

1. AM IF Adjustment

L205 $468\text{kHz} \pm 2.5\text{kHz}$

2. AM Frequency Range Adjustment

L204 $515\text{kHz} \pm 5\text{kHz}$ (Y,YZ)

517kHz $\pm 8\text{kHz}$ (YU)

TC204 $1650\text{kHz} \pm 20\text{kHz}$ (Y,YZ)

$1750\text{kHz} \pm 30\text{kHz}$ (YU)

3. AM Tracking Adjustment

L203 600kHz (Y,YZ)

630kHz (YU)

TC201 1400kHz (Y,YZ)

1500kHz (YU)

4. FM Frequency Range Adjustment

L202 $87.0\text{MHz} \pm 0.5\text{MHz}$ (Y,YU)

$87.4\text{MHz} \pm 0.2\text{MHz}$ (YZ)

TC203 $108.5\text{MHz} \pm 0.2\text{MHz}$ (Y,YU)

$108.5\text{MHz} \pm 0.5\text{MHz}$ (YZ)

5. FM Tracking Adjustment

L201 87.0MHz (Y,YU)

87.4MHz (YZ)

TC202 108.5MHz (Y,YU)

108.3MHz (YZ)

< TAPE PLAYER SECTION >

6. Azimuth Adjustment

Settings : Test tape : TTS - 320 (TTA - 113B, TCC - 152)

- Test point : PHONES JACK (J1)

- Adjustment location : Azimuth adjustment screw

Method : Play back the 8kHz signal of the test tape, and adjust so that the output becomes maximum at FWD or REV mode.

7. Tape Speed Adjustment

Settings : Test tape : TTA - 100 (TTA - 111S)

- Test point : PHONES JACK (J1)

- Adjustment location : SFR1 (T28/RD7/RD7A)
SFR3 (T40/T40A/
T30/T30A)

Method : Play back the test tape, adjust for 3000Hz at FWD and $\pm 45\text{Hz}$ at REV.

8. Motor load Adjustment

Refer to the REF NO. SI - 88 - 037 - OP of service technical information.

9. Dolby Level Adjustment

(HS - T40/T40A/T30/T30A ONLY)

Settings : Test tape : TTS - 200 (TTA - 161, TCC - 130)

- Test point : TP5 (Lch), TP6 (Rch)

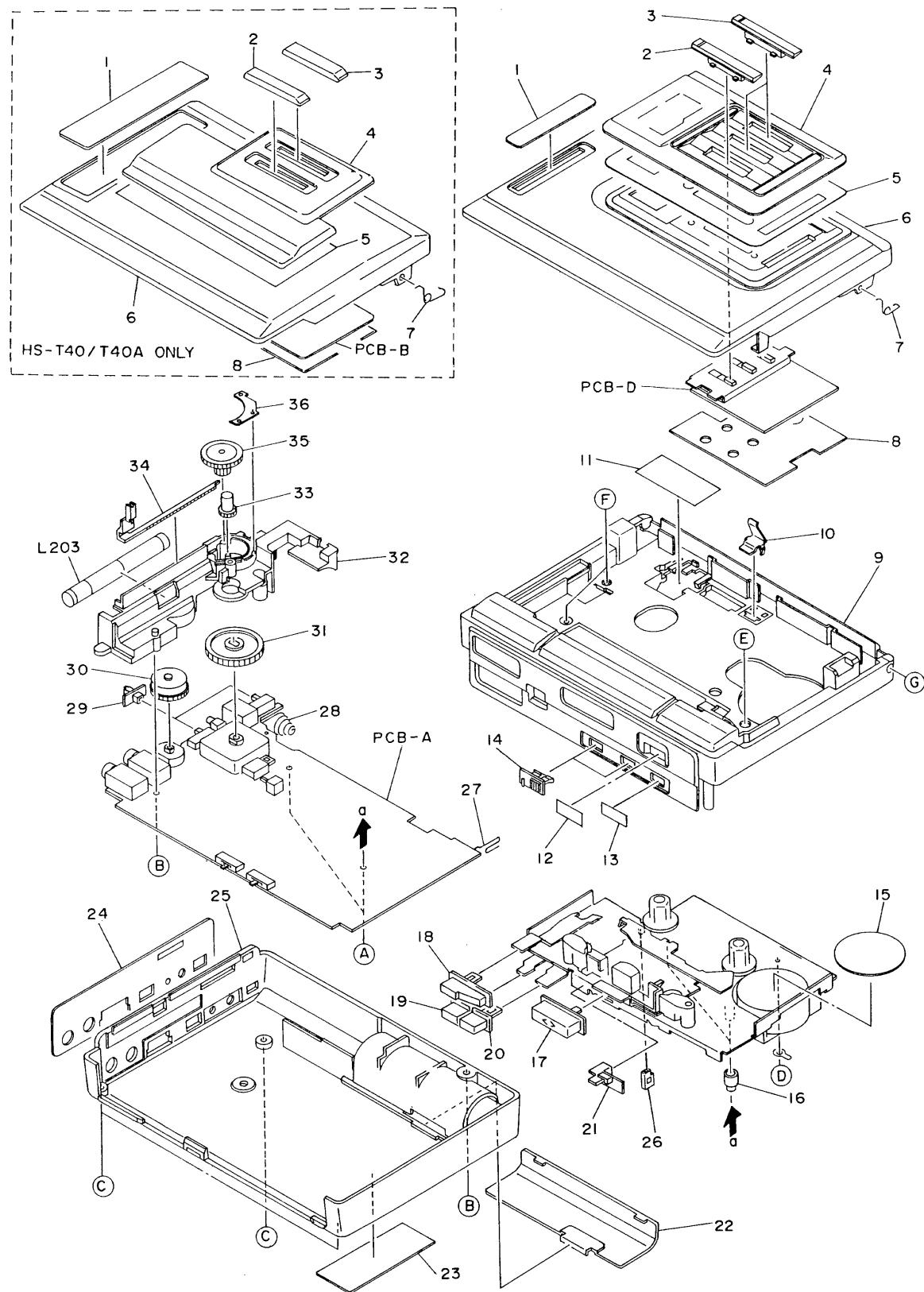
- Adjustment location : SFR1 (Lch), SFR2 (Rch)

- DOLBY SW : OFF

Method : Connect an electrolytic capacitor ($10 \mu\text{F}/16\text{V}$) to measured equipment and TP5 (6), adjust SFR1 (2) so that the voltage at TP5 (6) is $100\text{mV} \pm 10\text{mV}$.

EXPLODED VIEW – 1

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
A	87-067-442-019	VT _z +1.7-8(B)	D	87-358-525-319	VT _z +1.7-2.5	G	87-067-756-019	SCREW HINGE 1.4-4 HL
B	87-351-529-319	SCREW VT _z +1.7-4(B)	E	87-067-728-019	S-SCREW HINGE 1.7			
C	87-067-768-019	VT _z +1.7-7(B)	F	87-067-494-019	SCREW V+1.7-4			

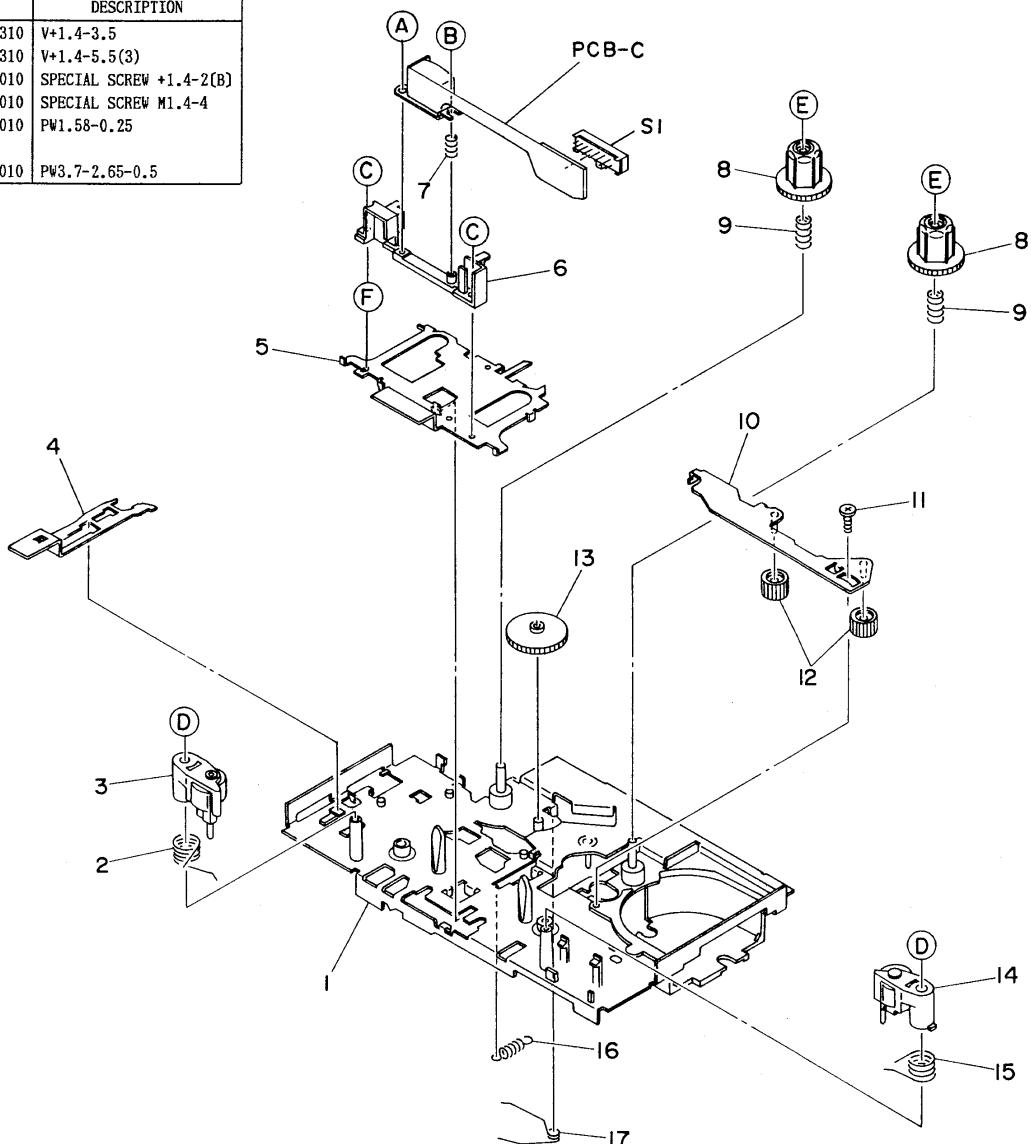


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
1-1		*80-HRB-003-019	PLATE,DIAL[B](T40)	*	1
1-1		*80-HRB-010-019	PLATE,DIAL[B]{T40A}	*	1
1-1		*80-HJ6-020-019	PLATE,DIAL[B]{EXCEPT T40,T40A}	1	
1-1		*80-HJ6-032-019	PLATE,DIAL[S]	1	
1-2		*80-HRB-004-019	KNOB,SLIDE C(T40,T40A)	*	1
1-2		*80-HJ6-014-010	KNOB,SLIDE C(EXCEPT T40,T40A)	1	
1-3		*80-HRB-005-019	KNOB,SLIDE D(T40,T40A)	*	1
1-3		*80-HJ6-024-010	KNOB,SLIDE D(EXCEPT T40,T40A)	2	
1-4		*80-HRB-002-019	WINDOW,CASSETTE(T40,T40A)	*	1
1-4		*80-HRC-003-019	WINDOW,CASSETTE(EXCEPT T40,T40A)	*	1
1-5		*80-HRB-201-019	ADHESIVE SHEET,WINDOW(T40,T40A)	*	1
1-5		*80-HJ6-212-019	ADHESIVE SHEET,WINDOW (EXCEPT T40,T40A)	1	
1-6		80-HRB-001-019	LID,CASSETTE[B](T40)	*	1
1-6		80-HRB-014-019	LID,CASSETTE[B]{T40A}	*	1
1-6		80-HRE-001-019	LID,CASSETTE[B](T30)	*	1
1-6		80-HRE-006-019	LID,CASSETTE[B]{T30A}	*	1
1-6		80-HRC-001-019	LID,CASSETTE[B]{T28}	*	1
1-6		80-HRE-007-019	LID,CASSETTE[S]{T30}	*	1
1-6		80-HRC-008-019	LID,CASSETTE[S]{T28}	*	1
1-6		80-HRF-001-019	LID,CASSETTE[S](RD 7)	*	1
1-6		80-HRF-004-019	LID,CASSETTE[S](RD 7A)	*	1
1-7		*80-HJ6-206-019	T-SPRING,CLICK	1	
1-8		*80-HRB-006-019	PLATE,PWB(T40,T40A)	*	1
1-8		*80-HJ6-022-019	PLATE,PWB(EXCEPT T40,T40A)	1	
1-9		*80-HJ6-004-019	FRAME,CASSETTE[B]	1	
1-9		*80-HR5-014-019	FRAME,CASSETTE[S]	1	
1-10		*84-506-210-010	P-SPRING,CASSETTE PUSH	1	
1-11		*80-HR5-022-019	SHEET,FRAME	1	
1-12		80-HR5-007-019	PLATE,B[B]	1	
1-12		80-HR5-016-019	PLATE,B[S]	1	
1-13		80-HR6-010-019	PLATE,C[B]{T40,T40A,T30,T30A}	1	
1-13		80-HR5-006-019	PLATE,A[B]{T28}	1	
1-13		80-HRE-010-019	PLATE,C[S]{T30}	*	1
1-13		80-HR5-015-019	PLATE,A[S]{T28,RD 7,RD 7A}	1	
1-14		*80-HJ6-012-019	KNOB,SLIDE A	2	
1-15		84-530-023-019	LABEL,MOTOR	1	
1-16		*80-HJ6-209-019	JOINT,PWB	2	
1-17		*80-HJ6-007-019	BUTTON,PLAY	1	
1-18		*80-HR5-004-019	BUTTON,STOP	1	
1-19		*80-HJ6-009-019	BUTTON,REW	1	
1-20		*80-HJ6-008-019	BUTTON,FF	1	
1-21		*80-HJ6-015-019	KNOB,SLIDE DIRECTION	1	
1-22		80-HJ6-005-019	LID,BATTERY[B](EXCEPT T28)	1	
1-22		80-HJ6-005-119	LID,BATTERY[B]{T28}	1	
1-22		80-HR5-012-019	LID,BATTERY[S]	1	
1-23		*80-HRB-009-019	LABEL,SPEC{T40}	*	1
1-23		*80-HRB-011-019	LABEL,SPEC{T40A}	*	1
1-23		*80-HRB-013-019	LABEL,SPEC{T40,YJ}	*	1
1-23		*80-HRE-002-019	LABEL,SPEC{T30}	*	1
1-23		*80-HRE-005-019	LABEL,SPEC{T30A}	*	1
1-23		*80-HRC-004-019	LABEL,SPEC{T28,Y,YZ}	*	1
1-23		*80-HRC-007-019	LABEL,SPEC{T28,YJ1}	*	1
1-23		*80-HRF-002-019	LABEL,SPEC{RD 7,Y,YZ}	*	1
1-23		*80-HRF-006-019	LABEL,SPEC(RD 7A)	*	1
1-23		*80-HRF-005-019	LABEL,SPEC(RD 7,YJ)	*	1
1-24		*80-HRB-008-019	PLATE,CABINET[B]	*	1
1-24		*80-HRC-009-019	PLATE,CABINET[S]	*	1
1-25		*80-HR6-008-019	CABINET,REAR[B](EXCEPT T28)	1	
1-25		*80-HR5-002-019	CABINET,REAR[B]{T28}	1	
1-25		*80-HRE-009-019	CABINET,REAR[S](T30)	*	1
1-25		*80-HR5-011-019	CABINET,REAR[S](T28,RD 7,RD 7A)	1	
1-26		*84-504-205-019	SPACER,SW	1	
1-27		*80-HJ6-204-019	BATTERY,CONTACT +	1	
1-28		*80-HJ6-205-019	BATTERY,CONTACT -	1	
1-29		*80-HJ6-013-019	KNOB,SLIDE B	2	
1-30		*84-506-028-019	KNOB,VOLUME	1	
1-31		*80-HJ6-202-019	GEAR,A	1	
1-32		*80-HJ6-201-019	CHASSIS,TUNING	1	
1-33		*80-HJ6-203-019	GEAR,B	1	
1-34		*80-HJ6-018-119	POINTER,TUNING	1	
1-35		*80-HJ6-017-019	KNOB,ROTARY TUNING	1	
1-36		*80-HJ6-207-019	PLATE,CHASSIS	1	

EXPLODED VIEW - 2

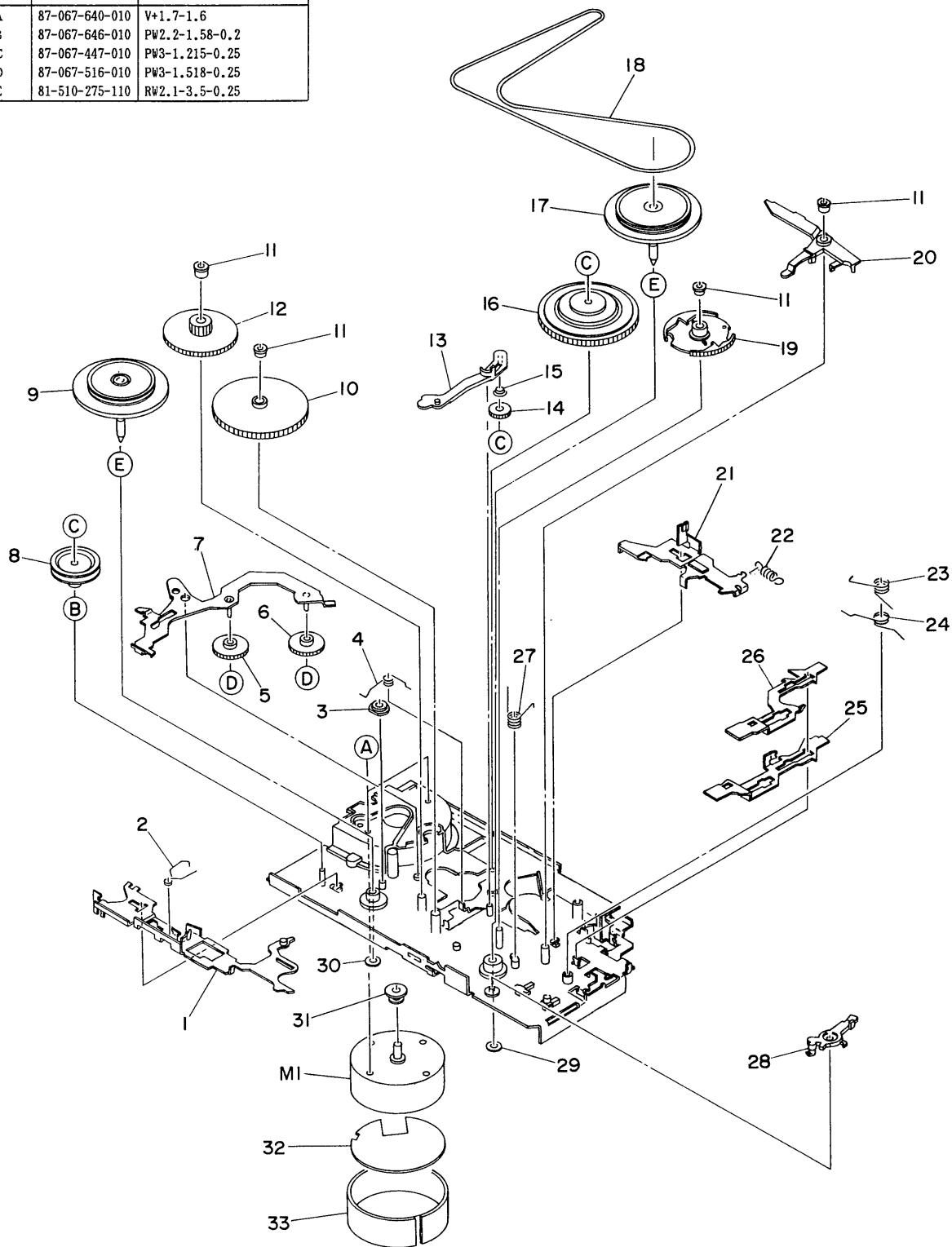
REF. NO.	PART NO.	DESCRIPTION
A	87-268-508-310	V+1.4-3.5
B	87-268-512-310	V+1.4-5.5(3)
C	87-067-511-010	SPECIAL SCREW +1.4-2(B)
D	87-067-517-010	SPECIAL SCREW M1.4-4
E	87-067-516-010	PW1.58-0.25
F	87-067-645-010	PW3.7-2.65-0.5



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
2-1		*86-567-241-110	OUTSERT ASSY P 2		1
2-2		*86-567-231-019	T-SPRING,PINCH RP		1
2-3		86-541-218-110	PINCH LEVER ASSY R		1
2-4		*86-567-216-010	PLATE,BUTTON STOP		1
2-5		*86-567-205-110	CHASSIS,SLIDE		1
2-6		*86-541-283-110	GUIDE,TAPE		1
2-7		*86-541-318-110	C-SPRING,AZIMUTH		1
2-8		*86-541-236-110	GEAR,REEL PLATFORM		2
2-9		*86-541-328-019	C-SPRING,REEL PLATFORM		2
2-10		*86-541-221-310	PLATE FR ASSY		1
2-11		*86-541-383-019	SCREW,FR		1
2-12		*86-541-244-010	GEAR,FR		2
2-13		*86-541-239-010	GEAR,REW		1
2-14		86-541-216-110	PINCH LEVER ASSY F		1
2-15		*86-567-230-019	T-SPRING,PINCH FP		1
2-16		*86-541-331-010	E-SPRING,SLIDE		1
2-17		*86-541-347-110	T-SPRING,FR LEVER		1

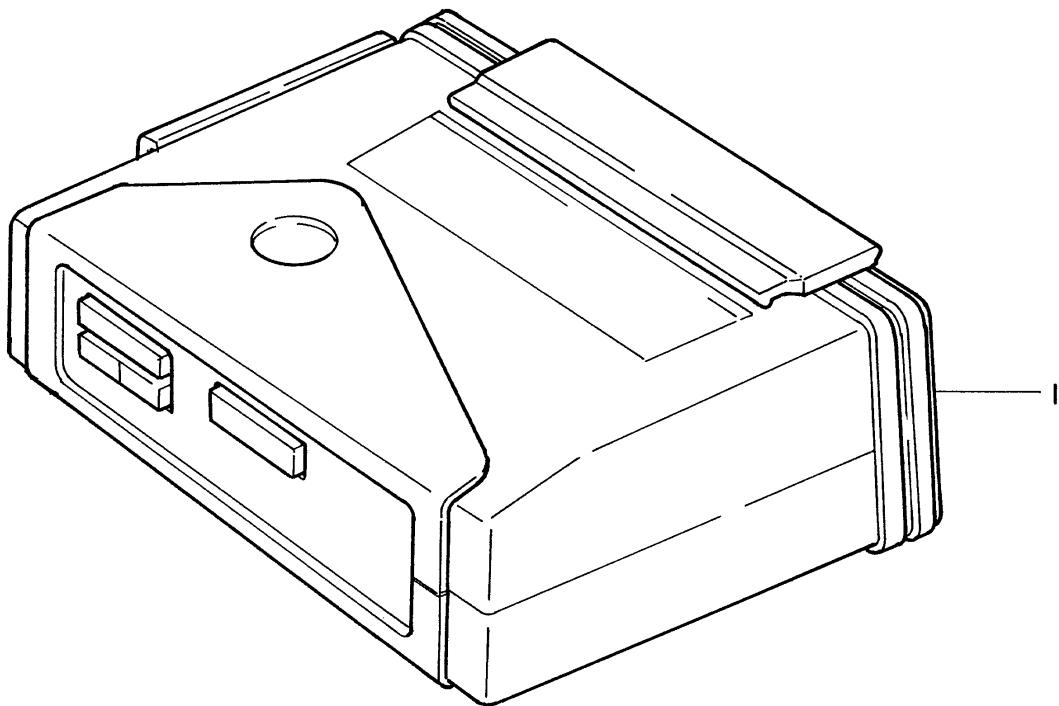
EXPLODED VIEW – 3

REF.NO.	PART NO.	DESCRIPTION
A	87-067-640-010	V+1.7-1.6
B	87-067-646-010	PW2.2-1.58-0.2
C	87-067-447-010	PW3-1.215-0.25
D	87-067-516-010	PW3-1.518-0.25
E	81-510-275-110	RW2.1-3.5-0.25



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
3-1		★86-541-222-410	PLATE PINCH SELECT ASSY		1
3-2		★86-541-320-610	T-SPRING,PLAY LEVER		1
3-3		★86-567-234-010	COLLAR,LV		1
3-4		★86-541-334-210	T-SPRING,AUTO LEVER		1
3-5		★86-541-477-110	GEAR,PLAY M		1
3-6		★86-541-242-210	GEAR,PLAY		1
3-7		★86-541-479-110	LEVER,PLAY ASSY M		1
3-8		★86-541-235-110	PULLEY,RELAY B		1
3-9		86-567-207-210	FLYWHEEL ASSY F		1
3-10		★86-541-237-110	GEAR,AUTO CAM		1
3-11		★86-541-376-110	COLLAR,PW-BOARD P		4
3-12		★86-541-448-010	GEAR,SLOW-DOWN B		1
3-13		★86-541-285-110	LEVER,AUTO		1
3-14		★86-541-241-010	GEAR,AUTO		1
3-15		★86-541-325-010	C-SPRING,AUTO GEAR		1
3-16		★86-553-208-010	GEAR,CLUTCH C		1
3-17		86-567-208-210	FLYWHEEL ASSY R		1
3-18		86-567-221-019	BELT		1
3-19		★86-541-249-410	GEAR,CAM P		1
3-20		★86-541-284-310	LEVER,TRIGGER		1
3-21		★86-567-206-010	PLATE,LOCK		1
3-22		★86-541-332-019	E-SPRING,PLATE LOCK		1
3-23		★86-541-349-019	T-SPRING,FR BUTTON		1
3-24		★86-567-214-019	T-SPRING,STOP		1
3-25		★86-567-217-110	PLATE,BUTTON FF		1
3-26		★86-567-218-010	PLATE,BUTTON REW		1
3-27		★86-541-345-110	T-SPRING,SELECT CAM		1
3-28		★86-541-286-010	LEVER,DIRECTION		1
3-29		★87-067-613-010	SHEET,SOMA 1.63-3.2-0.5		1
3-30		★87-067-612-010	SHEET,SOMA 3-1.5-0.5		1
3-31		★86-541-475-010	PULLEY,MOTOR M		1
3-32		---	SHIELD,BOARD B		1
3-33		---	SHIELD,BOARD		1

EXPLODED VIEW - 4



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
4-1		*80-HRF-951-010	CASE-RD7(RD7)	*	1

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q , TY
1	★ 80-HRB-901-219	INSTRUCTION BOOKLET, Y		※	1
2	★ 80-HRF-901-019	INSTRUCTION BOOKLET, Y (RD7/RD7A)		※	1
3	★ 80-HRF-951-010	CASE - RD7 (RD7/RD7A)		※	1
4	87-048-167-019	HP - 22BK (Y1,YJ1)			1
5	87-048-153-019	HP - M16 (EXCEPT RD7/RD7A,Y1/YJ1)			1
6	87-048-202-019	HP - RD7 (RD7/RD7A)			1
7	★ 87-080-025-019	CLIP,BELT ASSY			1