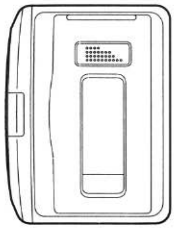
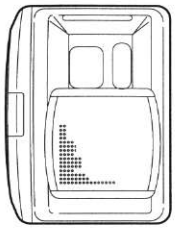
aiwa

aiwa SERVICE

HS-JS275
HS-JS275W
HS-JS375
HS-JS375W



HS-JS275/275W



HS-JS375/375W

STEREO RADIO CASSETTE RECORDER

SERVICE MANUAL

• BASIC TAPE MECHANISM: 3ZM–1 R1N

• TYPE: YJ,YH,YL,YZ(275,375) YU(275W,375W)

SPECIFICATIONS

Frequency range
YJ,YH,YL,YZ:
AM: 530 – 1605 kHz
FM: 87.5 – 108 MHz
YU:
AM: 530 – 1710 kHz
FM: 87.5 – 108 MHz

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

Power source
Battery DC 3V, R6 (size AA) X 2
YJ,YH,YL,YU: Domestic AC power (using the optional AC adaptor: AIWA AC – 620 / AC – 302)
YZ: Domestic AC power (using the optional AC adaptor: AIWA AC – 300 / AC – 302)

Speaker
Diameter 50 mm, 8Ω
(HS-JS375/375W ONLY)

Battery life
EIAJ, 1 mW output, playback
Approx. 4.5 hours using R6P (size AA) manganese batteries
Approx. 19 hours using LR6 (size AA) alkaline batteries
EIAJ, 10 mW output, playback (HS-JS375/375W)
Approx. 3.5 hours using R6P (size AA) manganese batteries
Approx. 15 hours using LR6 (size AA) alkaline batteries
EIAJ, recording
Approx. 2.5 hours using R6P (size AA) manganese batteries
Approx. 12 hours using LR6 (size AA) alkaline batteries

Maximum dimensions (W x H x D)
HS-JS275/275W: 119 x 89.5 x 34.5 mm ($4^3/_4$ x $3^5/_8$ x $1^3/_8$ inches)
HS-JS375/375W: 119 x 89.5 x 37 mm ($4^3/_4$ x $3^5/_8$ x $1^1/_2$ inches)

Weight (Including batteries)
HS-JS275/275W: Approx. 212 g (7 oz)
HS-JS375/375W: Approx. 226 g (8 oz)

• Design and specifications are subject to change without notice.

S/M Code No. 09–97A–222–4FP

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

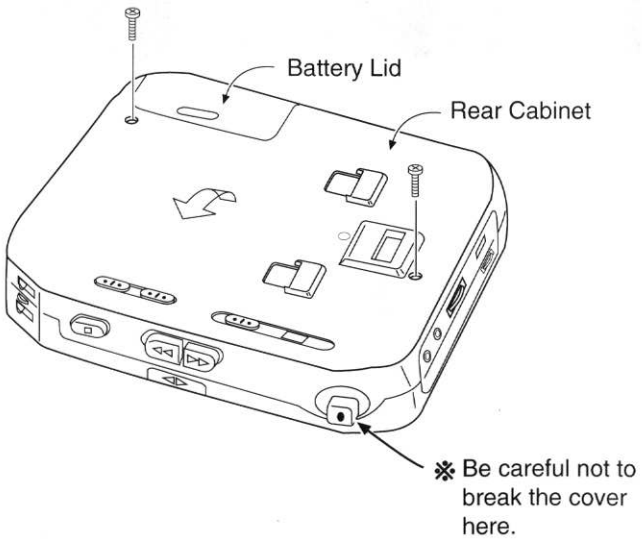
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ7-903-010		IB,Y(ESF)<375YZ>
1	87-HJ7-904-010		IB,Y(EGI)<375YZ>
1	87-HJ7-902-010		IB,YJ(ESC)<375YJ,375YH,375YL>
1	87-HJ7-901-010		IB,YU(ESF)<275WYU,375WYU>
1	87-HJ8-902-010		IB,YJ(ESC)<275YJ,275YH,275YL>
1	87-HJ8-903-010		IB,Y(ESF)<275YZ>
1	87-HJ8-904-010		IB,Y(EGI)<275YZ>
2	87-041-083-110		MIC,CM-S40A
3	84-447-019-310		CLIP,BELT
4	87-B30-081-010		HEADPHONE,HP-M009(S)<275WYU,375WYU>
4	87-B30-042-010		HEADPHONE,HP-24NSH<EXCEPT 275WYU,375WYU>

DISASSEMBLY INSTRUCTION

1. REAR CABINET REMOVAL

1) Remove the 2 screws and open the battery lid.

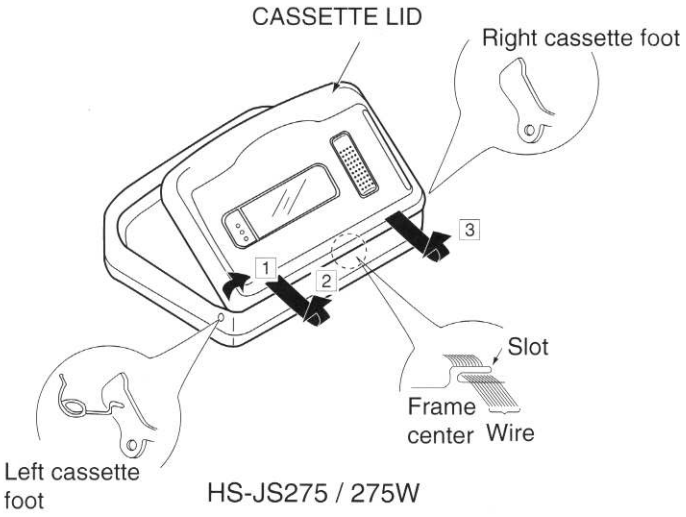
2) Remove the Rear Cabinet in the direction of the arrow.



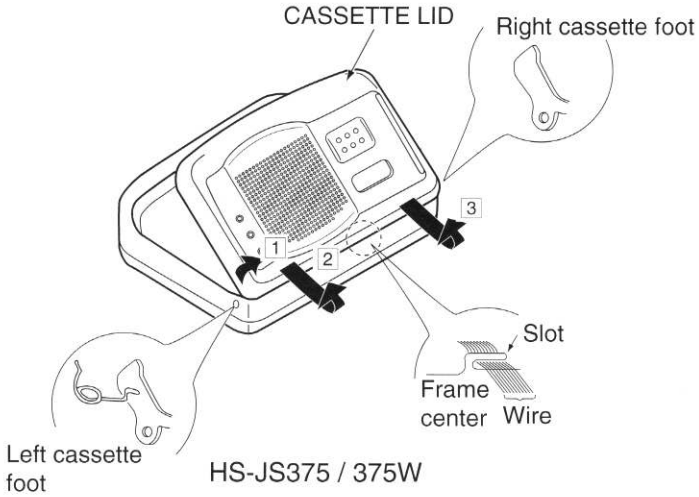
2. HOW TO REMOVE THE CASSETTE LID

Note: 1. Be careful not to break the cassette foots when removing the cassette lid.
2. To ensure the wires linked to the cassette lid are stressed-free, remove them from the wire slot on the frame centre before the following steps are performed.

1) Apply a little bit of force in direction 1 to the cassette lid and pull out the left boss of the left cassette foot.
2) Slide the cassette lid in the direction of arrow 2 to remove the right cassette foot.
3) By sliding the cassette lid in the direction of 3, the lid can be removed.



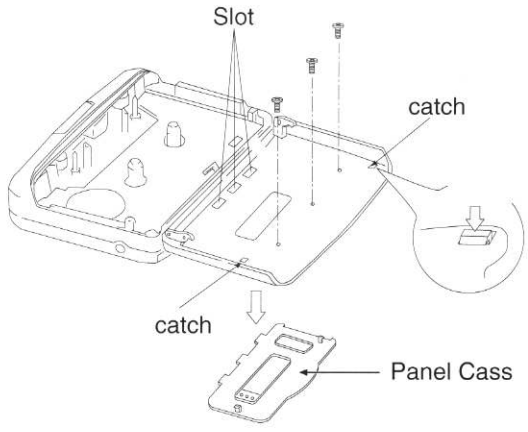
HS-JS275 / 275W



HS-JS375 / 375W

3. HOW TO REMOVE THE PANEL CASS (HS-JS275 / 275W)

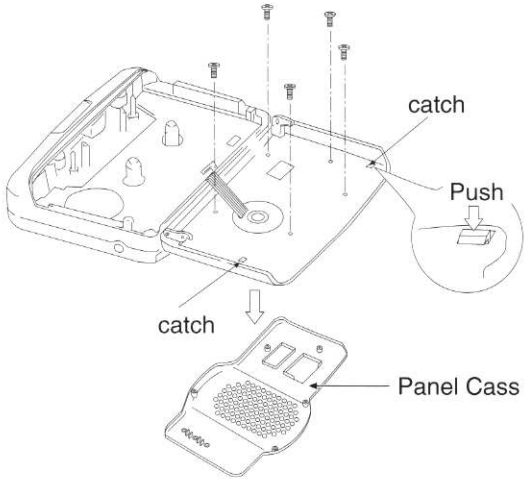
1) Remove the 3 screws.
2) Unhook the 2 catches.
3) Remove the Panel Cass from the slots.



HS-JS275 / 275W

3. HOW TO REMOVE THE PANEL CASS (HS-JS375 / 375W)

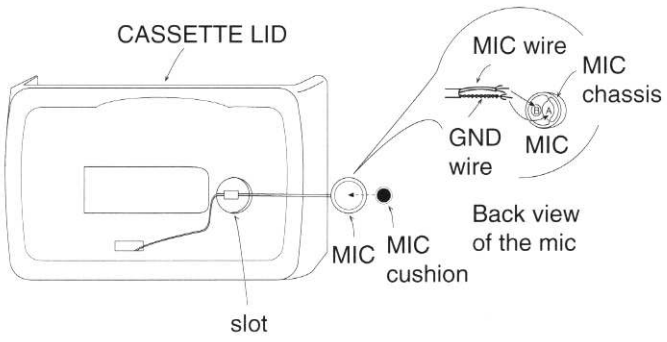
1) Remove the 5 screws.
2) Unhook the 2 catches & remove the Panel Cass from the front.



HS-JS375 / 375W

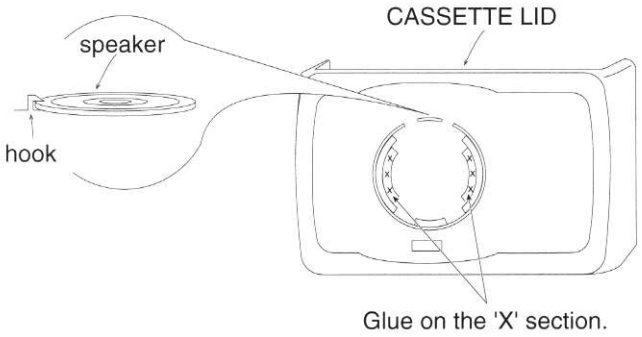
4. HOW TO REPLACE THE BUILT-IN MIC

1) As shown right, the MIC has two solder points, one point (A) is linked to the MIC chassis and the other point (B) is not.
   Solder the GND wire to point (A) and the MIC wire to point (B).
2) Replace the MIC cushion onto the MIC and make sure the MIC is Properly seated into the slot before assembling the Panel Cass.



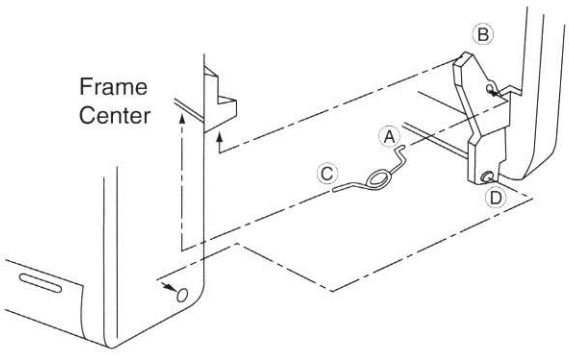
5. HOW TO REMOVE THE SPEAKER FROM THE CASSETTE LID (HS-JS375 / 375W).

1) Remove the hook that holds the speaker.
2) Remove the speaker carefully as glue was applied on the 'X' section as shown.



6. HOW TO REPLACE THE CASSETTE LID SPRING (T-SPRING).

1) Insert Ⓐ into the hole on the cassette foot.
2) Fix Ⓑ onto the Frame Center indicated by the arrow.
3) Fix Ⓒ in the direction of arrow.
4) Fix the boss Ⓓ into the Frame Center.

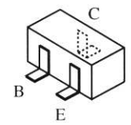


ELECTRICAL MAIN PARTS LIST

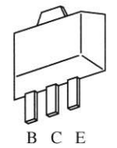
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-001-943-080		C-IC,TA8155F
	87-017-370-080		C-IC,MM1038AFF
	87-001-379-080		C-IC,TA8122AF
	87-017-643-080		C-IC,MM1206XFF
	87-002-232-080		C-IC,NJM2073M<375,375W>
	87-001-371-080		C-IC,LA4533M
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	89-327-125-080		C-TR,2SC2712GR
	89-111-625-080		C-TR,2SA1162GR(0.15W)
	89-112-134-040		C-TR,2SA1213Y1<375,375W>
	89-333-266-080		C-TR,2SC3326B
DIODE			
	87-020-027-080		C-DIODE,1SS184
	87-020-339-080		C-DIODE,1SS226<YZ>
MAIN C.B			
	87-030-314-010		FLTR,KIT 10.7M
BPF101	87-A90-609-010		FLTR,BPF GFMB7
C1	87-010-178-080		C-CAP,S 1000P-50 K B
C2	87-010-178-080		C-CAP,S 1000P-50 K B
C3	87-016-462-080		C-CAP,S 1-16 Z F
C4	87-016-462-080		C-CAP,S 1-16 Z F
C5	87-010-322-080		C-CAP,S 100P-50 CH
C6	87-010-322-080		C-CAP,S 100P-50 CH
C7	87-010-177-080		C-CAP,S 820P-50 SL
C8	87-010-177-080		C-CAP,S 820P-50 SL
C9	87-010-197-080		C-CAP,S 0.01-25 K B
C10	87-010-197-080		C-CAP,S 0.01-25 K B
C11	87-010-501-040		CAP,E 47-4 M 5L SRE
C12	87-010-501-040		CAP,E 47-4 M 5L SRE
C13	87-010-194-080		C-CAP,S 0.047-25 Z F
C14	87-010-194-080		C-CAP,S 0.047-25 Z F
C15	87-016-462-080		C-CAP,S 1-16 Z F
C16	87-016-462-080		C-CAP,S 1-16 Z F
C17	87-016-462-080		C-CAP,S 1-16 Z F
C18	87-016-462-080		C-CAP,S 1-16 Z F
C19	87-010-503-040		CAP,E 220-4 M 5L SRE
C20	87-010-179-080		C-CAP,S 1200P-50 K B
C21	87-010-179-080		C-CAP,S 1200P-50 K B
C22	87-016-462-080		C-CAP,S 1-16 Z F
C23	87-010-587-040		CAP,E 100-2
C24	87-016-462-080		C-CAP,S 1-16 Z F
C29	87-A10-422-080		C-CAP,TN 10-4 A TCF
C30	87-A10-422-080		C-CAP,TN 10-4 A TCF
C31	87-016-462-080		C-CAP,S 1-16 Z F
C32	87-016-462-080		C-CAP,S 1-16 Z F
C33	87-A10-418-080		C-CAP,TN 22-4 A TCF
C51	87-016-462-080		C-CAP,S 1-16 Z F
C52	87-010-178-080		C-CAP,S 1000P-50 K B
C53	87-010-196-080		C-CAP,S 0.1-25 Z F
C55	87-016-462-080		C-CAP,S 1-16 Z F
C101	87-010-146-080		C-CAP,S 2P-50 CH<YU>
C101	87-010-149-080		C-CAP,S 5P-50 CH<EXCEPT YU>
C102	87-012-159-080		C-CAP,S 24P-50 CH
C103	87-012-159-080		C-CAP,S 24P-50 CH<YU>
C103	87-010-315-080		C-CAP,S 27P-50 CH<EXCEPT YU>
C104	87-010-150-080		C-CAP,S 6P-50 CH<YU>
C104	87-010-152-080		C-CAP,S 8P-50 CH<EXCEPT YU>
C105	87-010-197-080		C-CAP,S 0.01-25 K B
C106	87-010-315-080		C-CAP,S 27P-50 CH
C107	87-010-805-080		C-CAP,S 1-16 Z F
C108	87-012-157-080		C-CAP,S 330P-50 CH
C109	87-010-196-080		C-CAP,S 0.1-25 Z F
C110	87-010-195-080		C-CAP,S 0.068-25 F
C111	87-010-196-080		C-CAP,S 0.1-25 Z F
C112	87-010-503-040		CAP,E 220-4 M 5L SRE
C113	87-010-213-080		C-CAP,S 0.015-50 K B
C114	87-010-213-080		C-CAP,S 0.015-50 K B
C115	87-010-194-080		C-CAP,S 0.047-25 Z F
C116	87-010-194-080		C-CAP,S 0.047-25 Z F
C117	87-010-178-080		C-CAP,S 1000P-50 K B
C118	87-010-178-080		C-CAP,S 1000P-50 K B
C119	87-010-500-040		CAP,E 33-4 M 5L SRE
C120	87-010-805-080		C-CAP,S 1-16 Z F
C128	87-010-318-080		C-CAP,S 47P-50 J CH
C401	87-012-142-080		C-CAP,S 0.33-16 Z F
C402	87-012-142-080		C-CAP,S 0.33-16 Z F
C403	87-010-452-080		C-CAP,S 1-16 Z F
C501	87-016-462-080		C-CAP,S 1-16 Z F<YZ>
C502	87-016-462-080		C-CAP,S 1-16 Z F<YZ>
C503	87-010-501-040		CAP,E 47-4 M 5L SRE<YZ>
C504	87-010-197-080		C-CAP,S 0.01-25 K B<YZ>
C601	87-010-503-040		CAP,E 220-4 M 5L SRE<375,375W>
C602	87-010-197-080		C-CAP,S 0.01-25 K B<375,375W>
C603	87-A10-422-080		C-CAP,TN 10-4 A TCF<375,375W>
C604	87-010-197-080		C-CAP,S 0.01-25 K B<375,375W>
C605	87-016-461-080		C-CAP,S 0.47-16 Z F<375,375W>
C606	87-010-195-080		C-CAP,S 0.015-25 K B<375,375W>
C607	87-010-184-080		C-CAP,S 3300P-50 K B<375,375W>
C608	87-010-805-080		C-CAP,S 1-16 F<375,375W>
C609	87-010-197-080		C-CAP,S 0.01-25 K B<375,375W>
C651	87-010-503-040		CAP,E 220-4 M 5L SRE
C652	87-010-503-040		CAP,E 220-4 M 5L SRE
C653	87-012-141-080		C-CAP,S 0.22-16 Z F
C654	87-012-141-080		C-CAP,S 0.22-16 Z F
C655	87-010-502-040		CAP,E 100-4 M 5L SRE
C656	87-010-503-040		CAP,E 220-4 M 5L SRE
C657	87-010-178-080		C-CAP,S 1000P-50 K B
C701	87-010-501-040		CAP,E 47-4 M 5L SRE
C702	87-A10-419-080		C-CAP,TN 1-16 A TCF
C703	87-A10-419-080		C-CAP,TN 1-16 A TCF
C704	87-010-188-080		C-CAP,S 6800P-50 K B
C705	87-010-188-080		C-CAP,S 6800P-50 K B
C706	87-016-462-080		C-CAP,S 1-16 Z F
C707	87-016-462-080		C-CAP,S 1-16 Z F
C708	87-010-498-040		CAP,E 10-16 M 5L SRE
C710	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-197-080		C-CAP,S 0.01-25 K B
C712	87-010-176-080		C-CAP,S 680P-50 J SL
C713	87-010-197-080		C-CAP,S 0.01-25 K B
C714	87-010-497-040		CAP,E 4.7-35 M 5L SRE
C715	87-010-180-080		C-CAP,1500P-50 K B
C716	87-010-197-080		C-CAP,S 0.01-25 K B
C717	87-010-184-080		C-CAP,S 3300P-50 K B
CF101	87-A90-530-010		FLTR,AM IF PFS455A
CR101	87-030-154-010		VIB,CER 456KHZ CSB F 16
J1	87-A60-122-010		JACK,DC 3.8 W/SW
J2	85-HRL-623-010		JACK,3.5 ST BLK
J701	87-A60-474-010		JACK,3.5MM 5PINSTEREO
L1	87-003-143-080		COIL,4.7 UH
L2	87-003-143-080		COIL,4.7 UH
L3	87-003-143-080		COIL,4.7 UH
L51	87-003-089-010		COIL,47UH FL5R200F
L52	87-003-089-010		COIL,47UH FL5R200F
L101	87-HJ7-603-010		BAR-ANT,MW
L102	87-HRL-605-010		COIL,RF FM EX
L103	85-HRE-607-010		COIL,OSC FM
L104	87-A50-188-010		COIL,AM OSC270UH
L105	87-A90-663-010		IFT,MW 5L H6.4
L601	87-003-089-010		COIL,47UH FL5R200F<375,375W>
L651	87-003-089-010		COIL,47UH FL5R200F
L701	87-007-189-010		COIL,OSC 50 KHZ
M701	82-TP3-609-010		ECM
PVC101	87-011-246-010		TUN-CAP,7.5-20P
R59	87-022-656-080		M-RES,0.68-1/8 W G
SFR51	87-024-050-010		SFR,1KV VZ066H1
SW1	87-036-322-010		C-SW,SL 2-2-3 SSSS22
SW2	87-036-123-010		C-SW,SL 1-1-2 SSSS81
SW3	87-036-110-010		SW,MICRO SPPB62
SW4	87-036-411-010		SW,LEAF
SW51	87-036-123-010		C-SW,SL 1-1-2 SSSS81
SW401	87-036-145-010		C-SW,SL 1-1-3 SSSS81
SW501	87-036-145-010		C-SW,SL 1-1-3 SSSS81<YZ>
SW701	87-036-082-010		SW,SL 2-2-2 MCS-2210
TH51	87-026-256-090		THMS,HT-100
VR1	83-HRC-609-010		VOL 20KAX2
W1	87-HJ8-602-010		F-CABLE,2P 0.05MM 128MM<275,275W)
W2	87-HJ7-607-010		F-CABLE,4P 0.05MM 106MM<375,375W>
FRONT C.B			
C451	87-016-462-080		C-CAP,S 1-16 F
LED451	87-A90-276-080		C-LED,SML-210MT GRN
LED452	87-A90-711-080		C-LED,SML-210YTT YEL
LED453	87-A90-278-080		C-LED,SML-210VT RED
HEAD FLEX C.B			
RPH1	87-046-408-010		HEAD ASSY,R PH
SW1	87-036-357-019		SW,SL 2-2-2(NC)

TRANSISTOR ILLUSTRATION



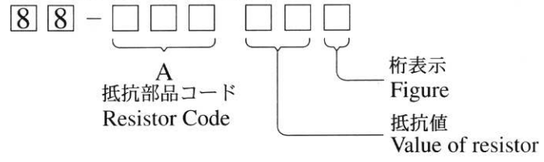
2SA1162
2SC2712
2SC3326
RN1410



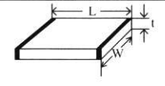
2SA1213

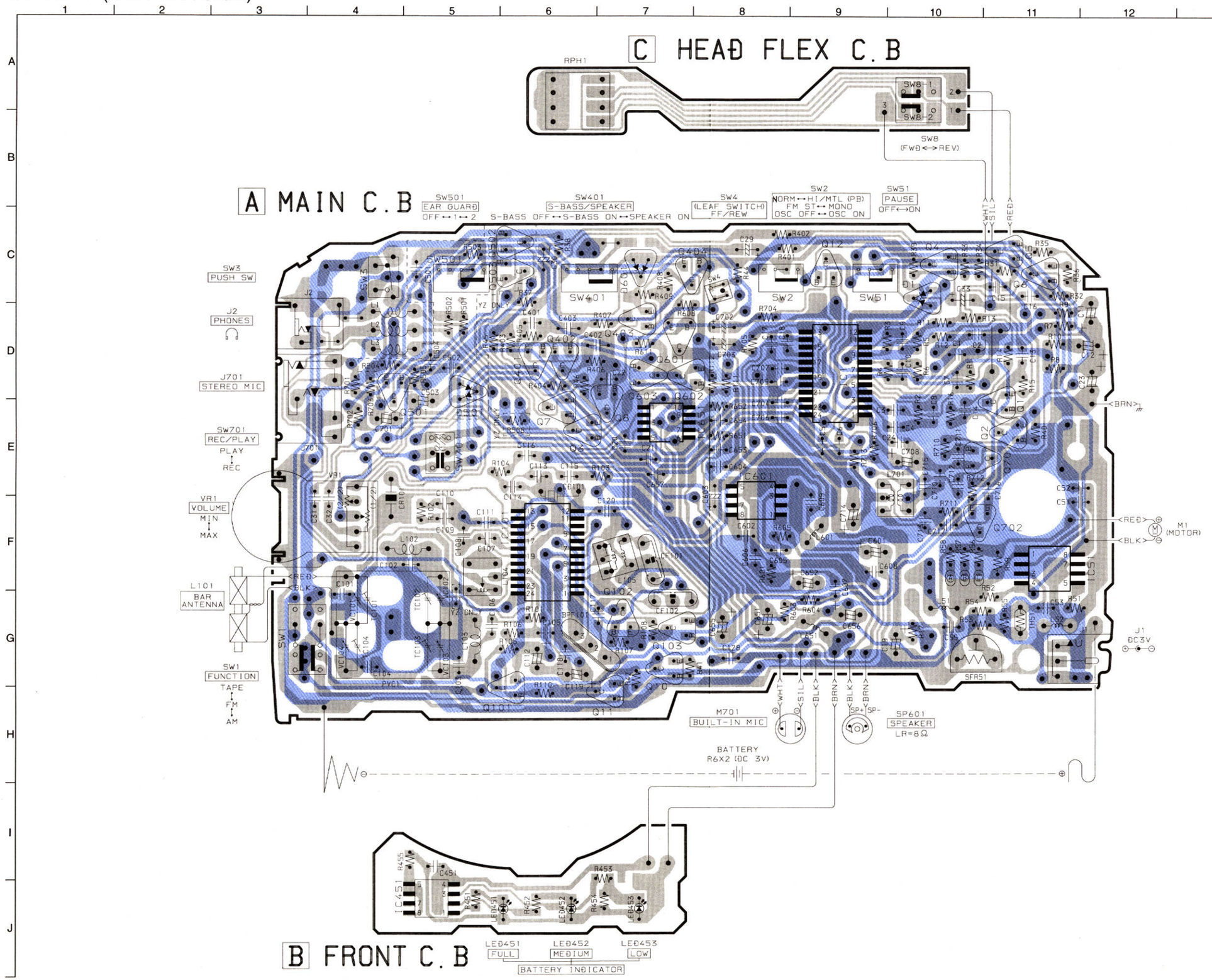
Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

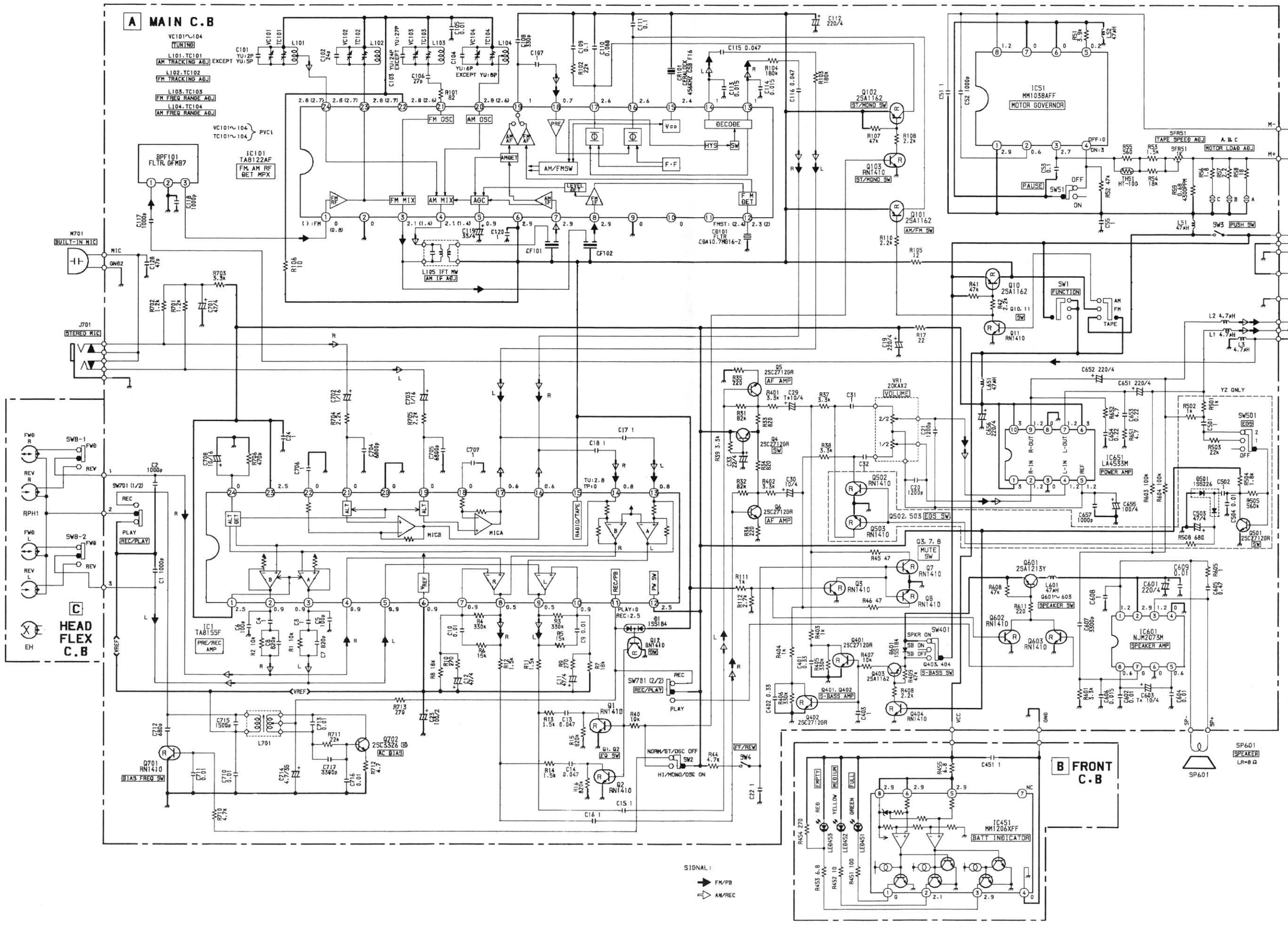


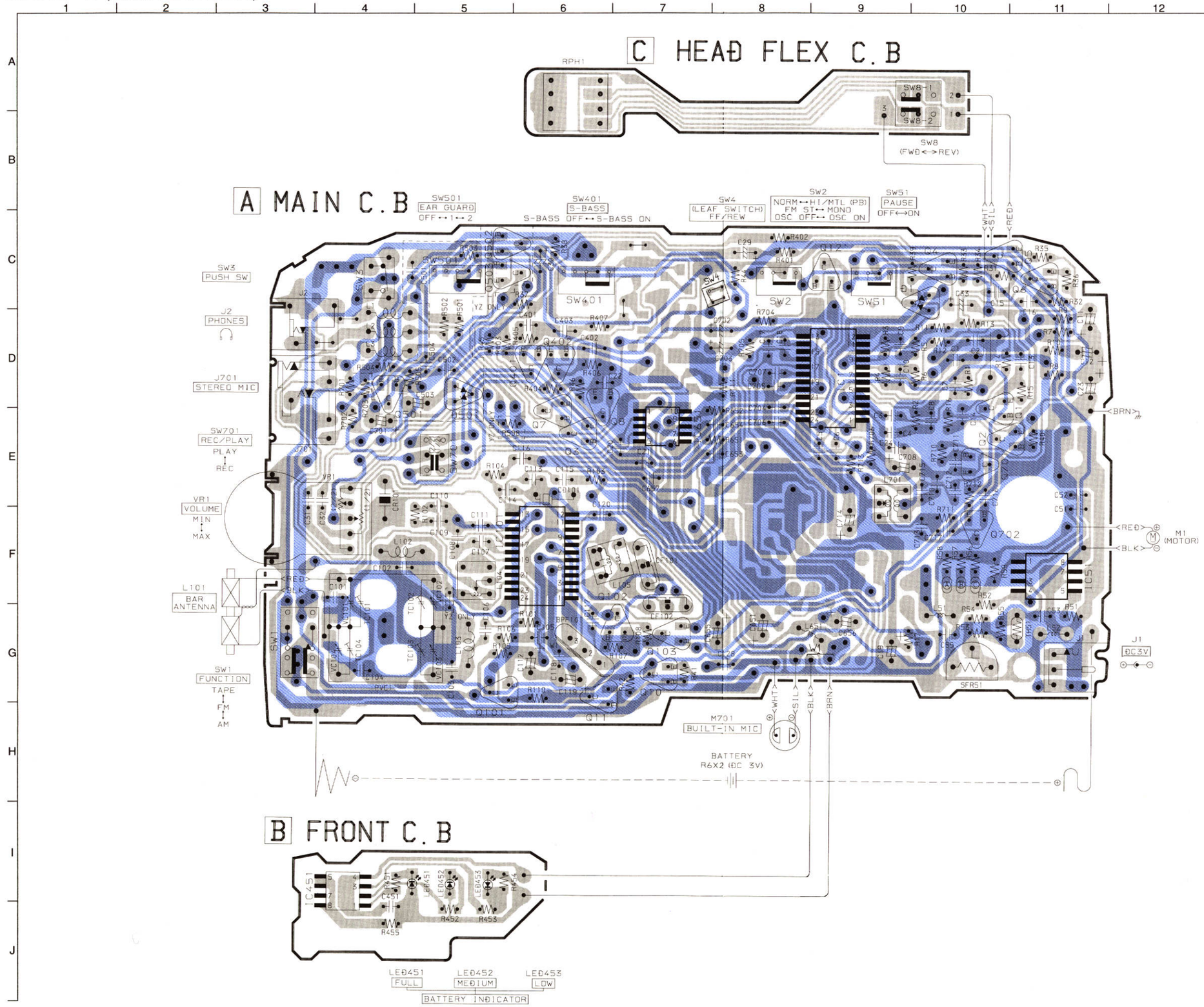
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

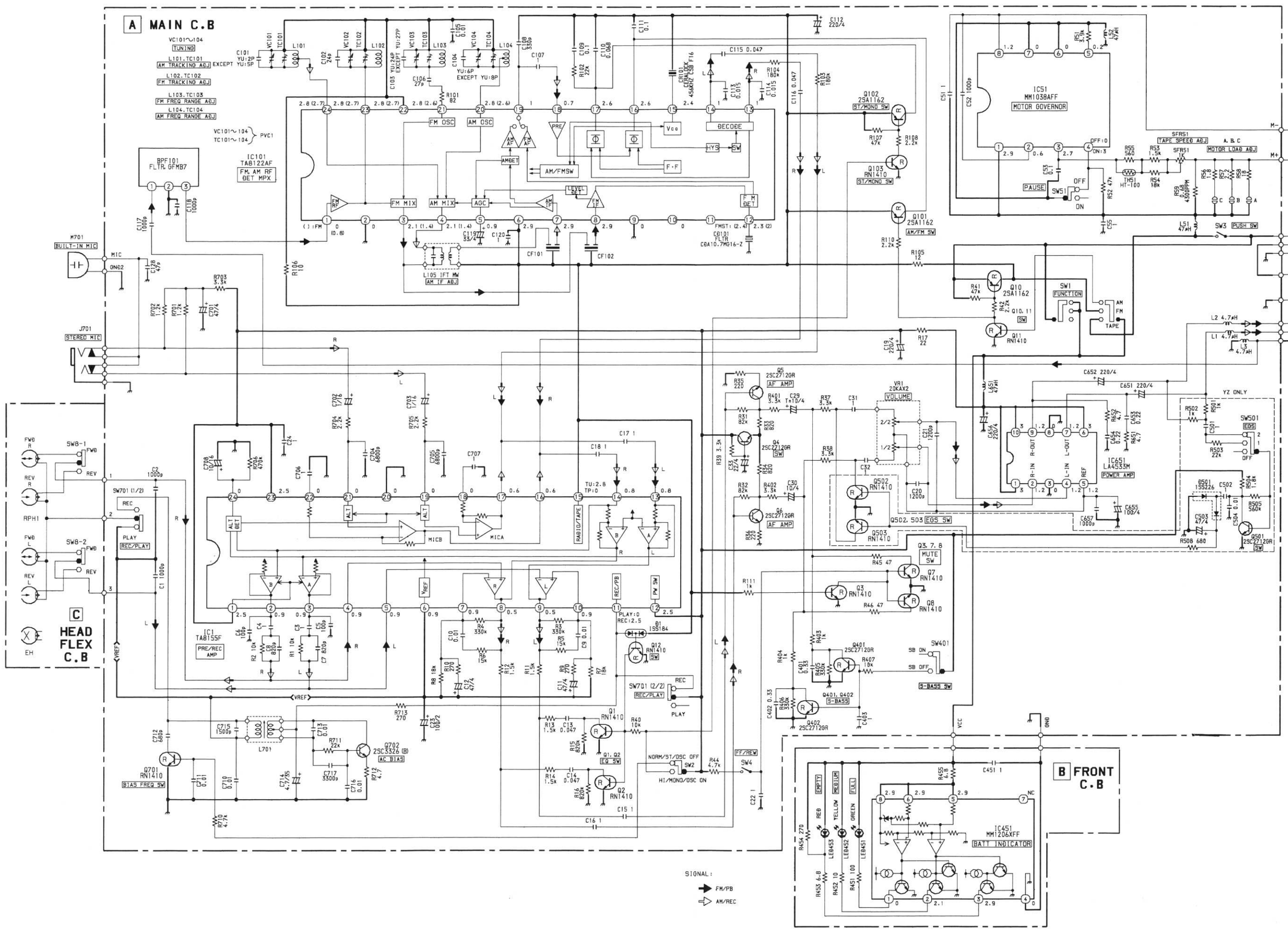

C HEAD FLEX C.B
RPH1
SW8-1
SW8-2
SW8
(FWD↔REV)
A MAIN C.B
Sw501
EAR GUARD
OFF↔1↔2
SW401
S-BASS/SPEAKER
S-BASS OFF↔S-BASS ON↔SPEAKER ON
SW4
(LEAF SWITCH)
FF/REW
SW2
NORM↔HI/MTL (PB)
FM ST↔MONO
OSC OFF↔OSC ON
SW51
PAUSE
OFF↔ON
WHT
SIL
RED
SW3
PUSH SW
J2
PHONES
J701
STEREO MIC
SW701
REC/PLAY
PLAY
REC
VR1
VOLUME
MIN
MAX
L101
BAR
ANTENNA
SW1
FUNCTION
TAPE
FM
AM
BRN
RED
BLK
M1
(MOTOR)
J1
DC3V
M701
BUILT-IN MIC
SP601
SPEAKER
LR=8Ω
BATTERY
R6X2 (DC 3V)
B FRONT C.B
LED451
FULL
LED452
MEDIUM
LED453
LOW
BATTERY INDICATOR

SCHEMATIC DIAGRAM – 1 (MAIN : 375 / 375W)



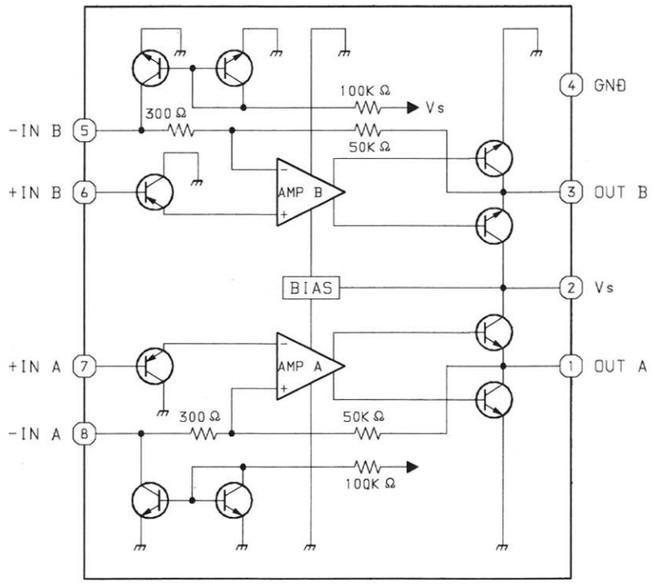

C HEAD FLEX C.B
RPH1
SW8-1
SW8-2
SW8
(FWD↔REV)
A MAIN C.B
SW501
EAR GUARD
OFF↔1↔2
SW401
S-BASS
S-BASS OFF↔S-BASS ON
SW4
(LEAF SWITCH)
FF/REW
SW2
NORM↔HI/MTL (PB)
FM ST↔MONO
OSC OFF↔OSC ON
SW51
PAUSE
OFF↔ON
SW3
PUSH SW
J2
PHONES
J701
STEREO MIC
SW701
REC/PLAY
PLAY
REC
VR1
VOLUME
MIN
MAX
L101
BAR
ANTENNA
SW1
FUNCTION
TAPE
FM
AM
WHT
SIL
RED
BRN
RED
BLK
M1
(MOTOR)
J1
DC3V
SFR51
M701
BUILT-IN MIC
BATTERY
R6X2 (DC 3V)
B FRONT C.B
IC451
LED451
LED452
LED453
FULL
MEDIUM
LOW
BATTERY INDICATOR

SCHEMATIC DIAGRAM – 2 (MAIN : 275 / 275W)

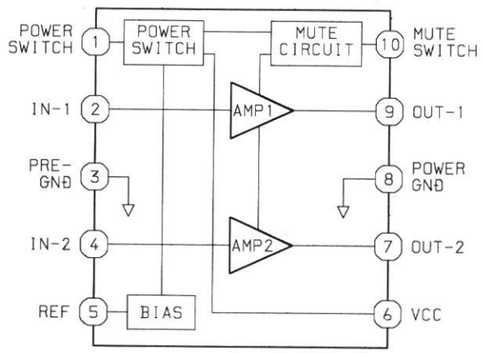


IC BLOCK DIAGRAM

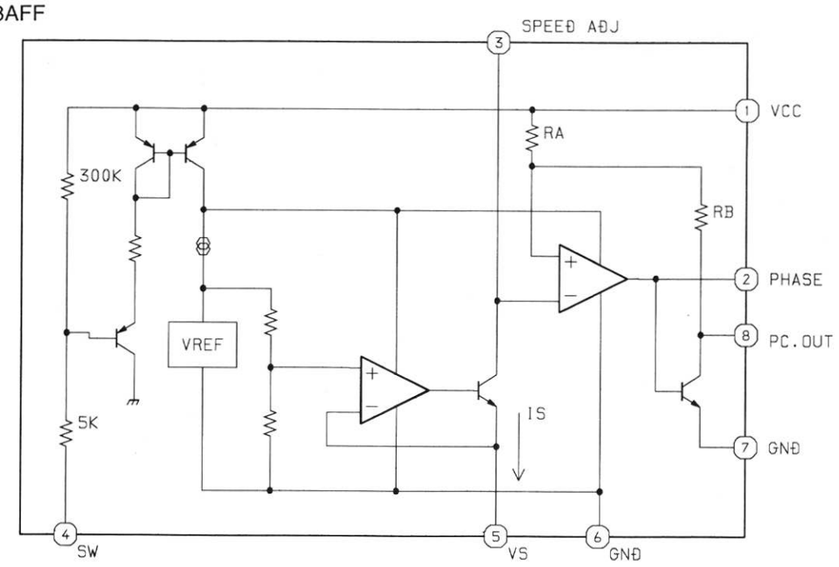
IC, NJM2073M



IC, LA4533M

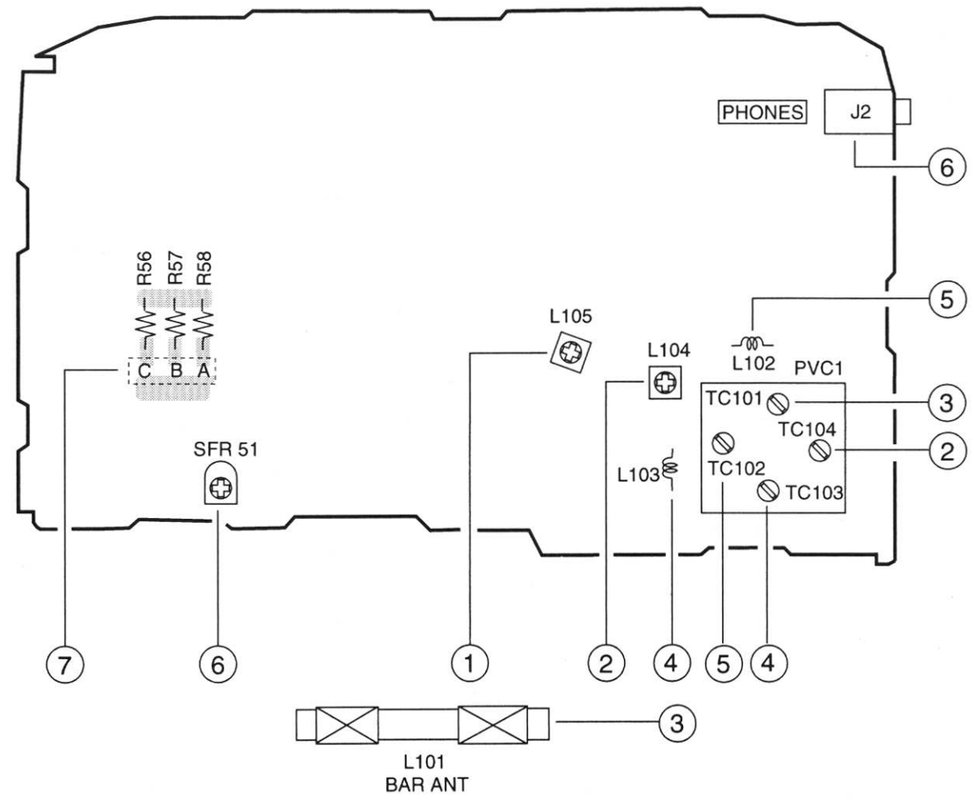


IC, MM1038AFF



ADJUSTMENT

A MAIN C.B



<RADIO SECTION>

1. AM IF Adjustment
   L105 ..... 450kHz

2. AM Frequency range Adjustment
   L104 ..... 517 ± 5kHz (YU ONLY)
   L104 ..... 515 ± 5kHz (EXCEPT YU)
   TC104 ..... 1775 ± 10kHz (YU ONLY)
   TC104 ..... 1670 ± 10kHz (EXCEPT YU)

3. AM Tracking Adjustment
   L101 ..... 600kHz
   TC101 ..... 1400kHz

4. FM Frequency range Adjustment
   L103 ..... 87.4 ± 0.1MHz (YZ ONLY)
   L103 ..... 87.0 ± 0.1MHz (EXCEPT YZ)
   TC103 ..... 108.3 ± 0.1MHz (YZ ONLY)
   TC103 ..... 109.0 ± 0.1MHz (EXCEPT YZ)

5. FM Tracking Adjustment
   L102 ..... 88.0MHz
   TC102 ..... 108.0MHz

<TAPE PLAYER SECTION>

6. Tape Speed Adjustment
   Settings :
   - Test tape : TTA–100
   - Test point : PHONES JACK (J2)
   - Adjustment location : SFR51
   - Super BASS : OFF
   - Tape/radio : TAPE
   - Tape select : NORM
   - Ear guard : OFF
   - Direction : FWD, REV
   - Volume : NON–CLIP (MAX -10dB DOWN)

   Method : Play back the test tape and adjust for 3015 ± 10Hz (FWD) and FWD SPEED ± 45Hz(REV).

7. Motor Load Adjustment
   Perform the STOP —> PLAY and REVERSE operations (or PAUSE ON —> OFF) after the motor is replaced. When the tape starts running smooth, this adjustment is not necessary. If wow is conspicuous at the begining of the tape-run, perform this adjustment following the procedure below.
   1) Solder both resistor pattern (A) and (B) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.
   2) Set the tape speed (using speed adjustment SFR51).

3) Restrict the motor rotation by hand (or turn PAUSE ON).
4) Remove your hand and listen to the begining of the tape-run.
5) When the rise of tape running is smooth, no more adjustment is necessary.
   If wow continues for 1 to 2 seconds at the rise time, reduce the combined resistance according to procedure 6 and check that the tape starts running smooth.
6) Solder the resistor pattern according to the table below:

Pattern	(Procedure 1 above)	Step (1)	Step (2)	Step (3)
High resistance (A)	Solder	Open	Open	Solder
Medium resistance (B)	Solder	Open	Solder	Open
Low resistance (C)	Open	Solder	Open	Solder

Pattern	Step (4)	Step (5)	Step (6)	Step (7)
High resistance (A)	Solder	Open	Open	Solder
Medium resistance (B)	Open	Solder	Open	Solder
Low resistance (C)	Open	Solder	Open	Solder

7) Finally re-check the tape speed.
   Caution : Cool the patterns down to normal temperature after soldering. If the pattern remains heated, the governor circuit does not operate normally.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

Sensitivity :		
(IHF, THD 3%)	FM	Less than 19dB [at 88 / 98 / 108MHz]
(S/N 10dB)	AM	Less than 59dB [at 600kHz]
		Less than 59dB [at 1000kHz]
		Less than 56dB [at 1400kHz]
Intermediate frequency :	FM	10.7MHz ± 0.1MHz
	AM	455kHz ± 3kHz
FM stereo separation :		More than 16dB [at 98.0MHz]

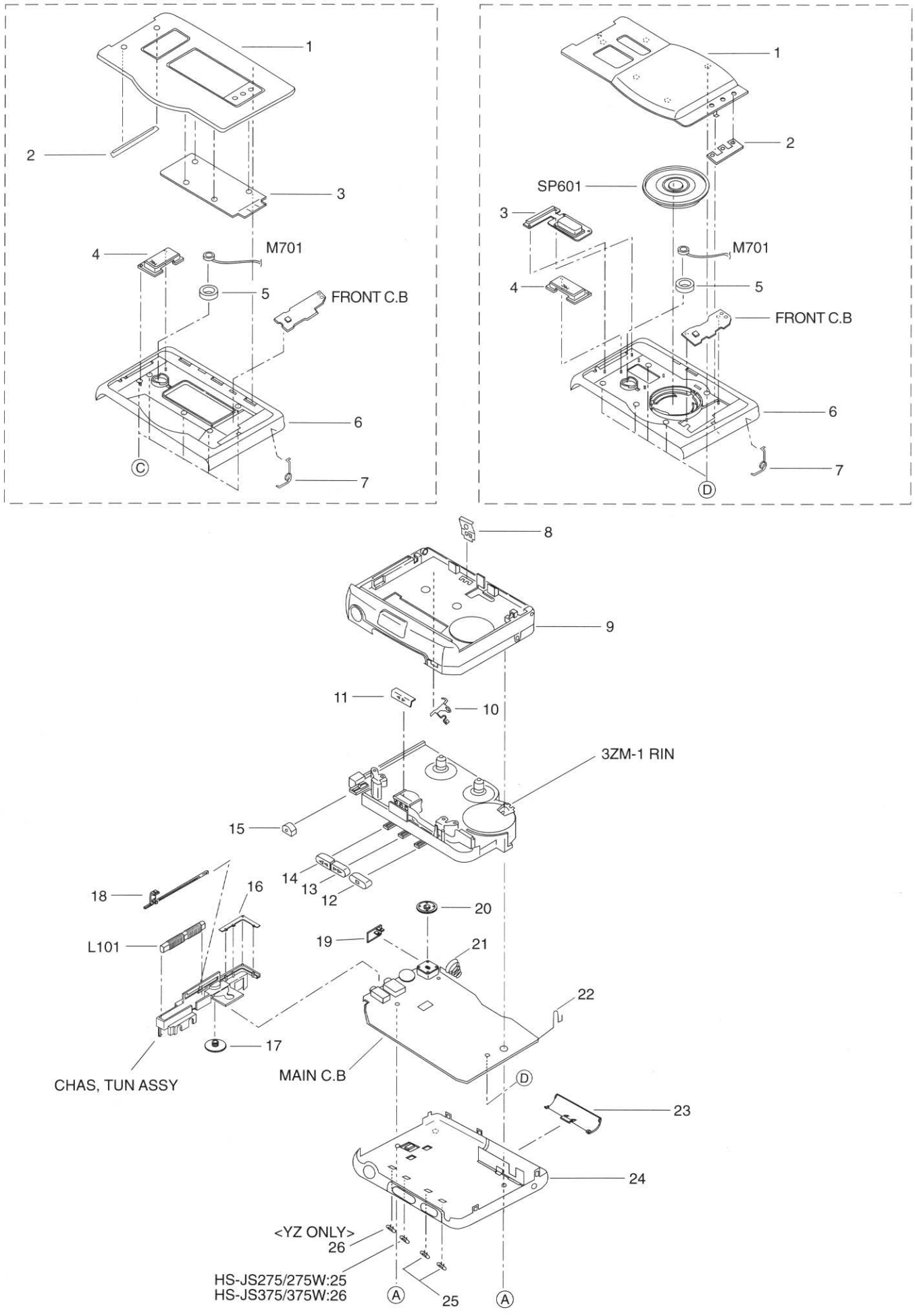
<TAPE SECTION>

Tape speed :	3015Hz ± 60Hz
Wow & flutter :	Less than 0.55% (RMS)
Pinch roller pressure :	150 ~ 180g (FWD)
	135 ~ 165g (REV)
Take-up torque :	25 ~ 45g-cm (FWD, REV)
F.F torque :	More than 60g-cm
Rew torque :	More than 60g-cm
Back tension :	1 ~ 4g-cm (FWD, REV)
S/N ratio :	More than 43dB (PB, DC)
	More than 30dB (REC/PB, DC)
Distortion :	Less than 2.5% (PB, DC)
	Less than 10.0% (REC/PB, DC)
Noise level :	Less than 7.0mV (Vol MAX, PB, DC)
	Less than 12.0mV (Vol MAX, REC/PB, DC)
Frequency response :	63Hz + 1/-6dB ~ 8kHz + 3/-4dB (NORMAL)
	63Hz + 1/-6dB ~ 10kHz + 3/-4dB (CrO2, METAL)
Test tape :	TTA-100
	TTA-210
	TTA-300
	TTA-320 (120μ)/310 (70μ)
	TTA-602

MECHANICAL EXPLODED VIEW 1 / 1

HS-JS275/275W

HS-JS375/375W

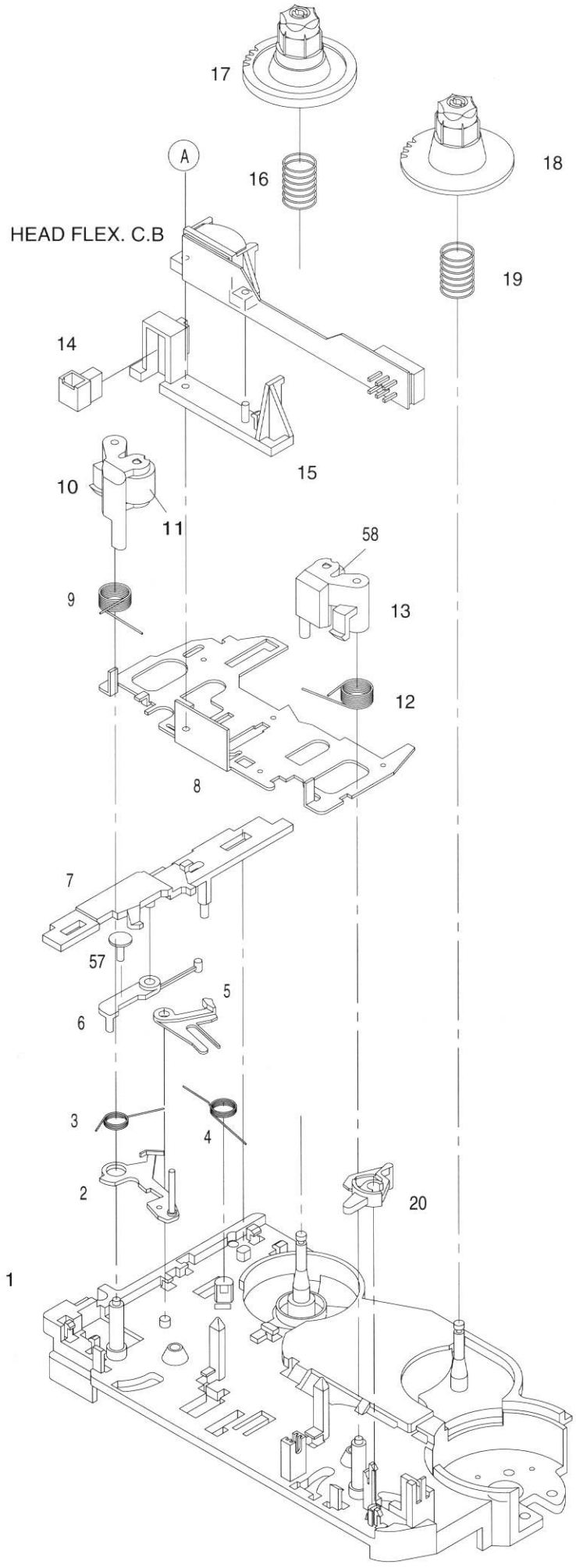


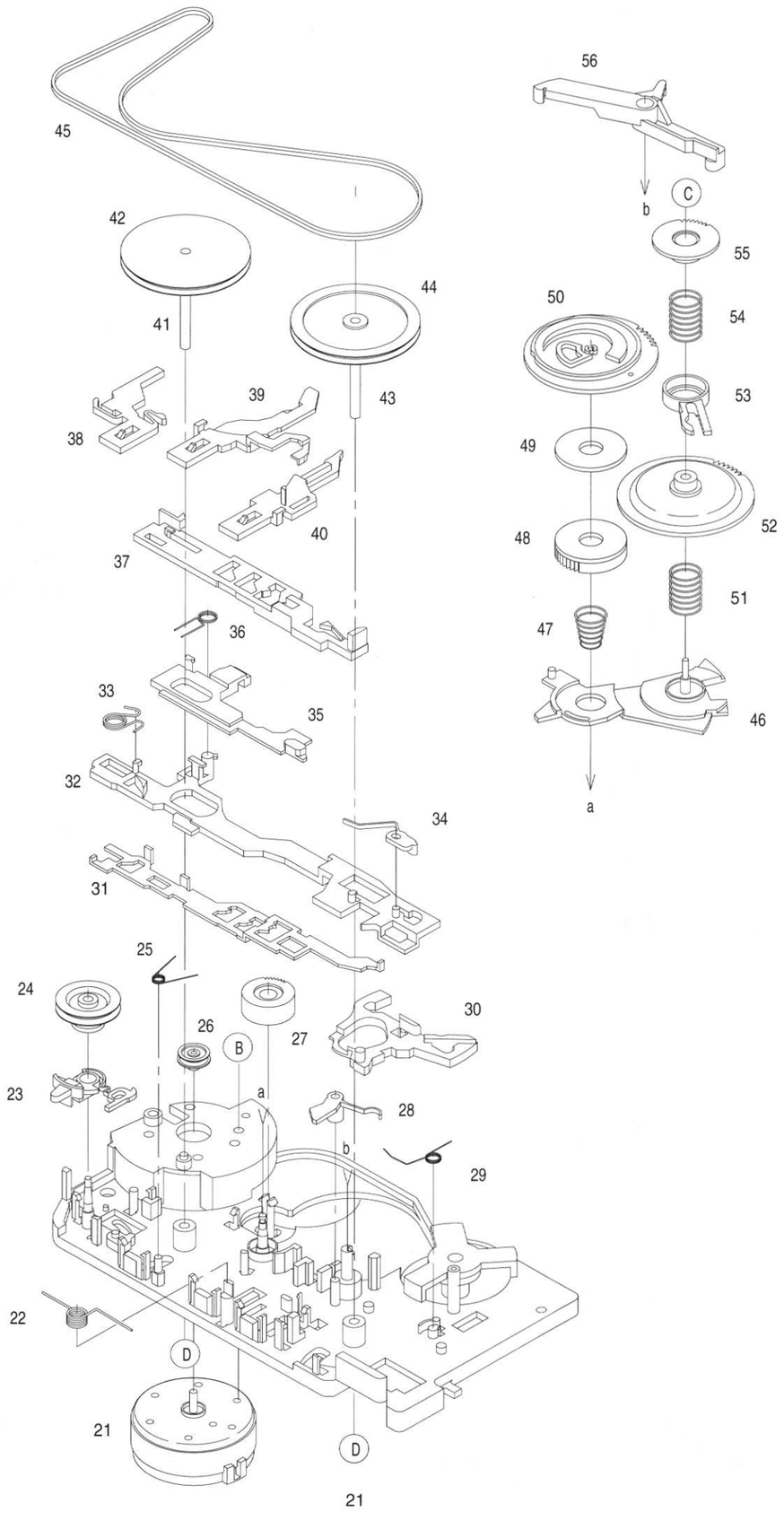
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ8-002-010		PANEL,CASS<275YH,275YL,275YJ>
1	87-HJ8-012-010		PANEL,CASS YU<275WYU>
1	87-HJ8-011-010		PANEL,CASS YZ<275YZ>
1	87-HJ7-005-010		PANEL,SPKR<375YH,375YL,375YJ>
1	87-HJ7-022-010		PANEL,SPKR YZ<375YZ>
1	87-HJ7-023-010		PANEL,SPKR YU<375WYU>
2	87-HJ8-005-010		WINDOW,TUN<275,275W>
2	87-HJ7-008-010		LENS,LED<375,375W>
3	87-HJ8-006-010		WINDOW,CASS<275,275W>
3	87-HJ7-007-010		WINDOW,CASS<375,375W>
4	87-HJ8-003-010		NET,MIC<275,275W>
4	87-HJ7-006-010		NET,MIC<375,375W>
5	87-HJ7-212-010		DMPR,MIC
6	87-HJ8-001-010		LID,CASS<275,275W>
6	87-HJ7-001-010		LID,CASS<375,375W>
7	83-HRJ-202-010		T-SP,CLICK
8	85-HRE-206-010		P-SP,CASS
9	87-HJ7-002-010		FRAME,CENTER
10	87-HJ7-203-010		LEVER,REC
11	87-HJ7-009-010		BTN,PLAY
12	87-HJ7-010-010		BTN,STOP
13	87-HJ7-011-010		BTN,FF
14	87-HJ7-012-010		BTN,REW
15	87-HJ7-013-010		BTN,REC
16	87-HJ7-207-010		COVER, TUN
17	87-HJ7-015-010		KNOB,RTRY TUN
18	87-HJ7-014-010		POINTER,TUN
19	87-HJ7-020-010		KNOB,SL RADIO
20	87-HJ7-204-010		GEAR,CAP
21	87-HJ7-206-010		BAT-CONTACT,-
22	87-HJ7-205-010		BAT-CONTACT,+
23	87-HJ7-004-010		LID,BATT
24	87-HJ8-009-010		CABI,REAR YJ<275YH,275YJ>
24	87-HJ8-010-010		CABI,REAR YL<275YL>
24	87-HJ8-007-010		CABI,REAR YU<275WYU>
24	87-HJ8-008-010		CABI,REAR YZ<275YZ>
24	87-HJ7-003-010		CABI,REAR YZ<375YZ>
24	87-HJ7-018-010		CABI,REAR YU<375WYU>
24	87-HJ7-019-010		CABI,REAR YJ<375YH,375YJ>
24	87-HJ7-021-010		CABI,REAR YL<375YL>
25	87-HJ7-017-010		KNOB,SL B
26	87-HJ7-016-010		KNOB,SL A
A	87-067-770-010		VT2+1.7-9(3) BLK
B	87-266-533-310		SCREW V+1.7-6
C	87-067-732-010		VT2+1.4-3 CR BLK HL<275,275W>
D	87-B10-074-010		VT2+1.7-3.5 (1) BLK<375,375W>

TAPE MECHANISM EXPLODED VIEW 1 / 1





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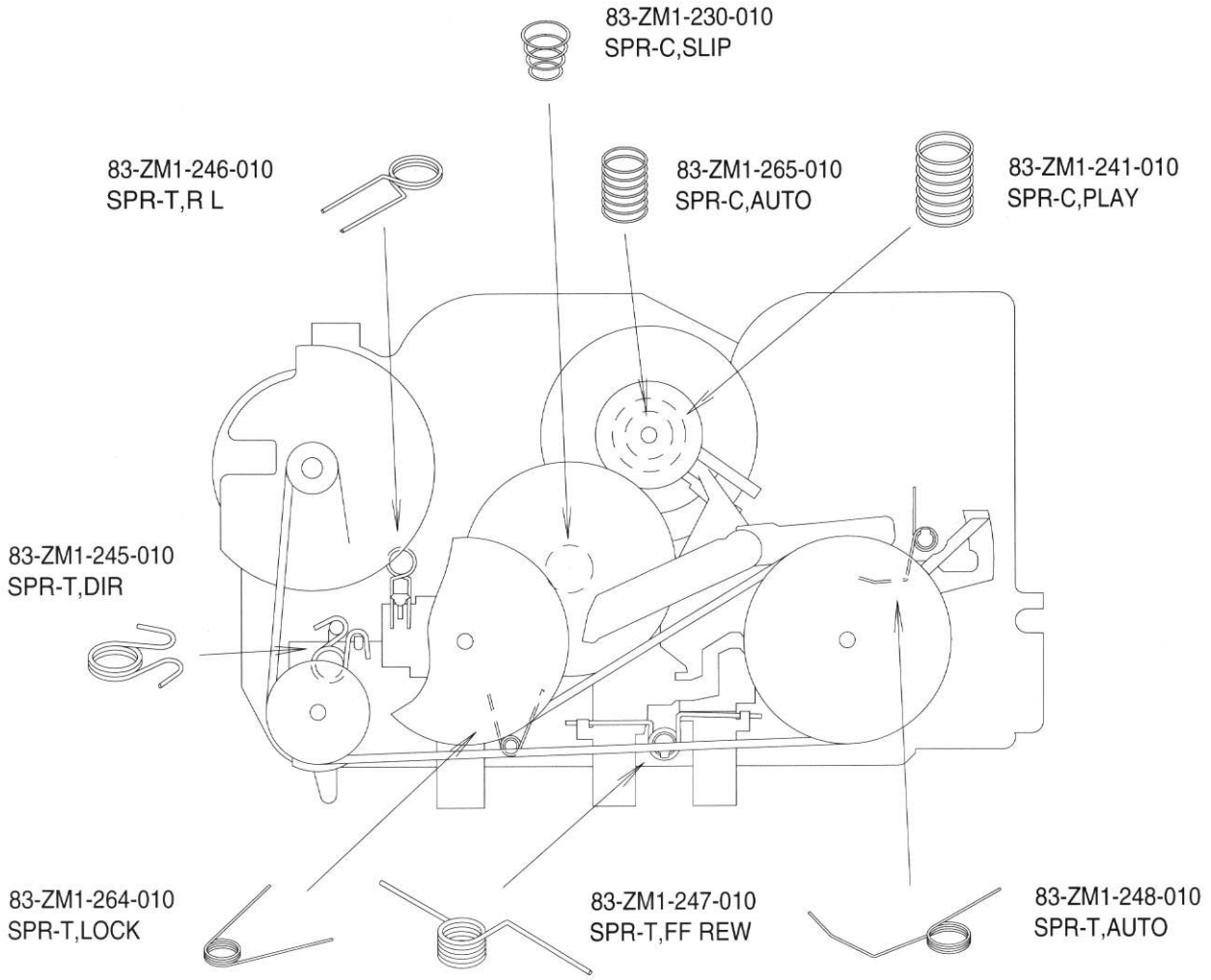
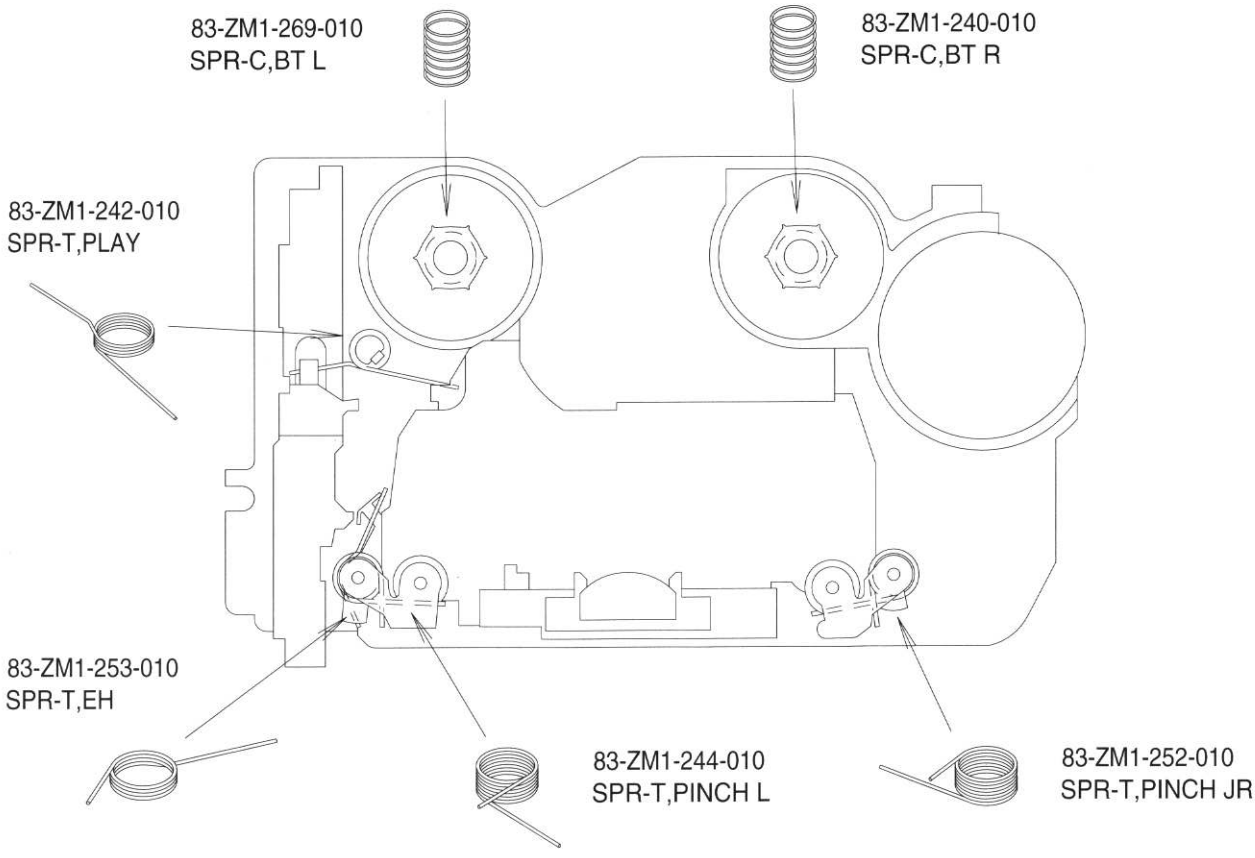
TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZM1-201-919		CHAS,MAIN
2	83-ZM1-272-11K		LVR ASSY,EH
3	83-ZM1-253-010		SPR-T,EH
4	83-ZM1-242-010		SPR-T,PLAY
5	83-ZM1-260-110		LVR,REC LOCK
6	83-ZM1-250-010		LVR,REC
7	83-ZM1-280-010		LVR,BTN REC
8	83-ZM1-206-219		LVR,BTN PLAY
9	83-ZM1-244-019		SPR-T,PINCH L
10	83-ZM1-220-219		LVR,PINCH L
11	83-ZM1-289-010		PINCH ROL ASSY,L
12	83-ZM1-252-319		SPR-T,PINCH JR
13	83-ZM1-219-119		LVR,PINCH R
14	86-541-559-010		EH 2
15	83-ZM1-263-01K		GUIDE,TAPE
16	83-ZM1-269-119		SPR-C,BT L
17	83-ZM1-235-41K		GEAR,REEL L
18	83-ZM1-234-41K		GEAR,REEL R
19	83-ZM1-240-119		SPR-C,BT R
20	83-ZM1-210-119		BTN DIR
21	87-045-385-019		MOTOR (BCY3B11)
22	83-ZM1-247-119		SPR-T,FF REW
23	83-ZM1-266-219		BTN,MODE CHG
24	83-ZM1-236-01K		PULLEY,BELT
25	83-ZM1-264-019		SPR-T,LOCK
26	83-ZM1-237-21K		PULLEY,MOTOR
27	83-ZM1-233-119		GEAR,R
28	83-ZM1-267-119		LVR,DEF AUTO
29	83-ZM1-248-019		SPR-T,AUTO
30	83-ZM1-211-110		LINK,AUTO
31	83-ZM1-216-419		LVR,LOCK
32	83-ZM1-214-419		LVR,DIR
33	83-ZM1-245-219		SPR-T,DIR
34	83-ZM1-268-010		LVR,REC AUTO
35	83-ZM1-215-119		LVR,FR
36	83-ZM1-246-119		SPR-T,R L
37	83-ZM1-261-010		LVR,CUE REV
38	83-ZM1-209-219		LVR,BTN STOP
39	83-ZM1-207-119		LVR,BTN FF
40	83-ZM1-208-119		LVR,BTN REW
41	83-ZM1-278-010		SHAFT,CAP 2.0SEF
42	83-ZM1-222-310		FLY-WHL,R
43	83-ZM1-282-010		SHAFT,CAP 2.0 RR
44	83-ZM1-225-310		FLY-WHL,L
45	83-ZM1-288-310		BELT,P
46	83-ZM1-217-219		LVR,PLAY
47	83-ZM1-230-319		SPR-C,SLIP
48	83-ZM1-229-019		GEAR,SLIP
49	83-ZM1-228-119		FELT
50	83-ZM1-227-31K		GEAR,AUTO
51	83-ZM1-241-219		SPR-C,PLAY
52	83-ZM1-231-219		GEAR,PLAY
53	83-ZM1-218-219		LVR,SLIP
54	83-ZM1-265-019		SPR-C,AUTO
55	83-ZM1-232-119		GEAR,FR
56	83-ZM1-273-019		LVR,AUTO 2
57	83-ZM1-283-010		SHAFT,REC H
58	83-ZM1-255-010		PINCH ROL ASSY
A	87-078-111-019		S-SCRW,V+1.7-6
B	87-078-100-019		S-SCRW,V+1.7-2.5
C	87-078-132-010		PW,1.2-3.5-0.25C-CUT
D	87-078-086-019		SOMA,1.5-3.5-0.3 SLT

SPRING APPLICATION POSITION





REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

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