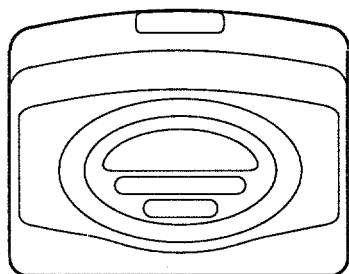


aiwa



HS-GS263



STEREO CASSETTE PLAYER

• BASIC TAPE MECHANISM: 3ZM-1 P4N

• TYPE: Y,YK,YH

SPECIFICATIONS

Maximum output:	15 mW + 15 mW (EIAJ 16 ohms) 12 mW + 12 mW (EIAJ 32 ohms)
Power source:	DC 3V using two R6 (size AA) batteries Y,YK: AC house current using an optional AC adaptor: aiwa AC-300/AC-302 YH: AC house current using an optional AC adaptor: aiwa AC-620/AC-302
Maximum dimensions (W x H x D):	113 x 88.5 x 35.5 mm (4 1/2 x 3 1/2 x 1 7/16 inches)
Weight:	Approx. 136g, 4.8oz (Excluding batteries)

• Design and specifications are subject to change without notice.

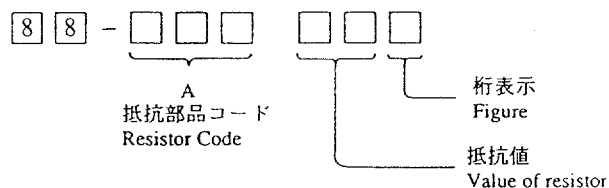
ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C142	87-016-492-080		C-CAP,S 0.33-16 FZ
	87-070-160-040		C-IC,MM1104AFFK	C143	87-016-462-080		C-CAP,S 1-16 F
TRANSISTOR				C144	87-016-462-080		C-CAP,S 1-16 F
	89-327-125-080		C-TR,2SC2712GR	C151	87-016-462-080		C-CAP,S 1-16 F<Y,YK>
	87-026-417-080		C-TR,RN1310	C152	87-010-501-080		CAP-E,47-4 M 5L<Y,YK>
	87-026-263-080		C-TR,RN1410				
	89-341-165-080		C-TR,2SC4116GR	C153	87-016-462-080		C-CAP,S 1-16 F<Y,YK>
DIODE				J101	87-099-816-010		JACK,3.5 ST
	87-020-339-080		C-DIODE,1SS226<Y,YK>	J102	87-A60-122-010		JACK,DC 3.8
	87-020-027-080		C-DIODE,1SS184	R126	87-022-656-080		M-RES,0.68-1/8W G
MAIN C.B				S101	87-036-360-010		SW,SL 2-2-2
				S103	87-036-145-010		C-SW,SLIDE 1-1-3<Y,YK>
				S104	87-036-110-010		PUSH SWITCH
				SFR101	87-024-050-010		SFR ,1KV VZ066H1
				TH101	87-026-256-090		THMS, HT-100
				VR101	87-024-555-010		VOL 20KAX2 DIA 14
				W1	88-HG9-602-010		F-CABLE,6P
				MSP C.B			
C101	87-010-181-080		C-CAP,S 1800P-50 K B	C303	87-010-184-080		C-CAP,S 3300P-50 K B
C102	87-010-181-080		C-CAP,S 1800P-50 K B	C304	87-010-184-080		C-CAP,S 3300P-50 K B
C103	87-010-428-080		C-CAP,S 0.015-25 B	C305	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-010-428-080		C-CAP,S 0.015-25 B	C306	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-501-040		CAP,E 47-4 M 5L	C307	87-016-462-080		C-CAP,S 1-16 F
C106	87-010-501-040		CAP,E 47-4 M 5L				
C107	87-010-195-080		C-CAP,S 0.068-25	C308	87-016-462-080		C-CAP,S 1-16 F
C108	87-010-195-080		C-CAP,S 0.068-25	C309	87-010-195-080		C-CAP,S 0.068-25 F
C111	87-010-503-040		CAP,E 220-4 M 5L	C310	87-010-195-080		C-CAP,S 0.068-25 F
C112	87-010-503-040		CAP,E 220-4 M 5L	C311	87-010-188-080		CAP,CHIP 6800P
C113	87-010-502-040		CAP E 100-4 M 5L	C312	87-010-188-080		CAP,CHIP 6800P
C114	87-010-503-080		CAP,E 220-4 M 5L				
C115	87-A10-264-080		C-CAP,S 0.1-16 Z F	C313	87-010-189-080		C-CAP,S 8200P-50 B
C116	87-A10-264-080		C-CAP,S 0.1-16 Z F	C314	87-010-189-080		C-CAP,S 8200P-50 B
C117	87-010-425-080		C-CAP,0.22-25 Z F	C315	87-016-436-080		C-CAP,TN 47-4(B2)
C118	87-016-462-080		C-CAP,S 1-16 F	C351	87-A10-368-080		C-CAP,S 2.2-10 Z F
C119	87-010-178-080		C-CAP,S 1000P-50 K B	S301	87-036-146-080		C-SLIDE SWITCH 1-1-4
C120	87-010-180-080		C-CAP,1500P-50 K B				
C121	87-010-180-080		C-CAP,1500P-50 K B	HEAD FLEX C.B			
C122	87-010-197-080		C-CAP,0.01-25 K B	PH1	87-A90-805-010		HEAD,ASSY PH
C123	87-010-178-080		C-CAP,S 1000P-50 K B	SW1	87-036-357-010		SW,SL 2-2-2(NC)
C124	87-010-178-080		C-CAP,S 1000P-50 K B				
C127	87-012-157-080		C-CAP,S 330P-50 J CH				
C128	87-012-157-080		C-CAP,S 330P-50 J CH				
C141	87-016-492-080		C-CAP,S 0.33-16 FZ				

○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

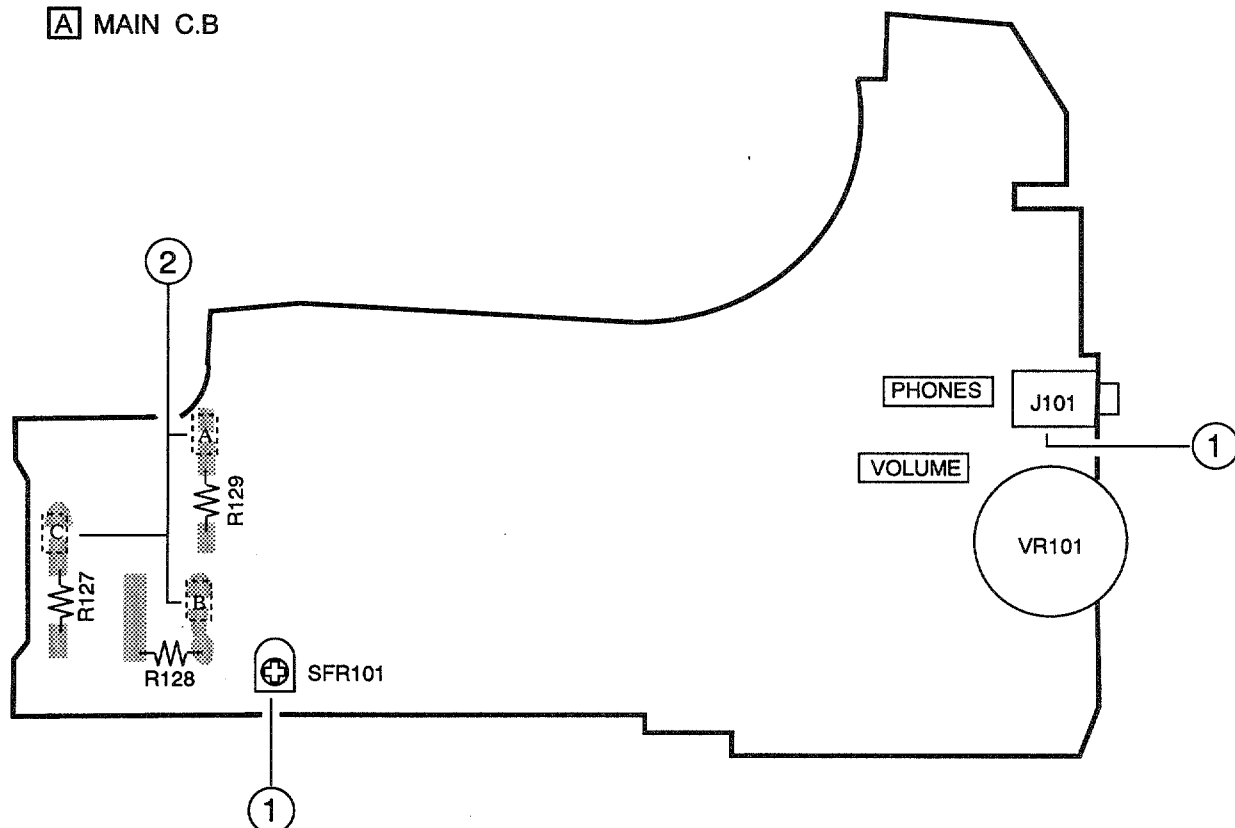


チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code: A
				外形／Form	L	W	t	
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

ADJUSTMENT

[A] MAIN C.B



<TAPE PLAYER SECTION>

1. Tape Speed Adjustment.

- Settings:
- Test tape : TTA-100 (TAPE CENTER)
 - Test point : PHONES JACK (J101)
 - Adjustment location : SFR101
 - Tape select : NORMAL
 - MSP : CLASSIC
 - Ear guard (Y, YK) : OFF
 - Direction : FWD&REV
 - Volume : MAX

Method: Play back the test tape, adjust for $3015 \pm 10\text{Hz}$ (FWD) and $3015 \pm 50\text{Hz}$ (REV).

6) Solder the resistor pattern according to the table below.

Pattern	(Procedure 1 above)	Step (1)	Step (2)
10Ω (A)	Open	Solder	Solder
5.6Ω (B)	Solder	Solder	Open
3.3Ω (C)	Solder	Solder	Solder

7) Finally re-check the tape speed.

Caution : Cool the pattern down to normal temperature after soldering. If the pattern remains heated, the governor circuit does not operate normally.

2. 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 (B) and (C) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.
- 2) Set the tape speed (using speed adjustment SFR101).
- 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 is running is smooth, no more adjustment is necessary.

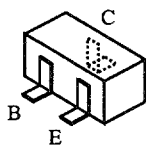
If wow continues for 1 to 2 seconds at the rise time, reduce the combined resistance according to procedure 6 and check that the tape starts running smooth.

PRACTICAL SERVICE FIGURE

<TAPE SECTION>

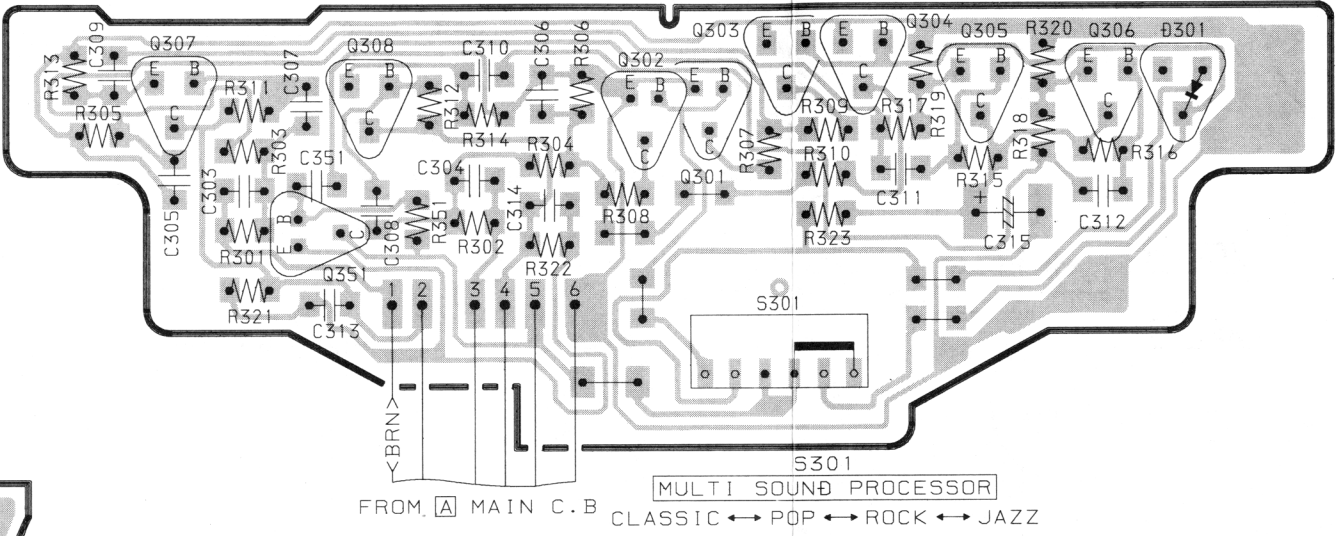
Tape speed :	3015Hz $\pm$ 50Hz
Wow & flutter :	Less than 0.52% (RMS)
Take-up torque :	25 ~ 45 g-cm (FWD, REV)
F.F torque :	More than 60 g-cm
Rew torque :	More than 60 g-cm
Back tension :	1.0 ~ 4.0 g-cm (FWD,REV)
S/N ratio :	More than 42dB (PB, DC)
Distortion :	Less than 3.0% (PB, DC)
Noise level :	Less than 3.5mV (Vol MAX, PB, DC)
Frequency response :	63Hz + 0 / - 8dB ~ 8kHz $\pm$ 4dB (NORMAL) 63Hz + 0 / - 8dB ~ 10kHz $\pm$ 4dB (CrO2, METAL)
Test tape :	TTA-100 TTA-210 TTA-320 (120 μ)/TTA-310 (70 μ)

TRANSISTOR ILLUSTRATION

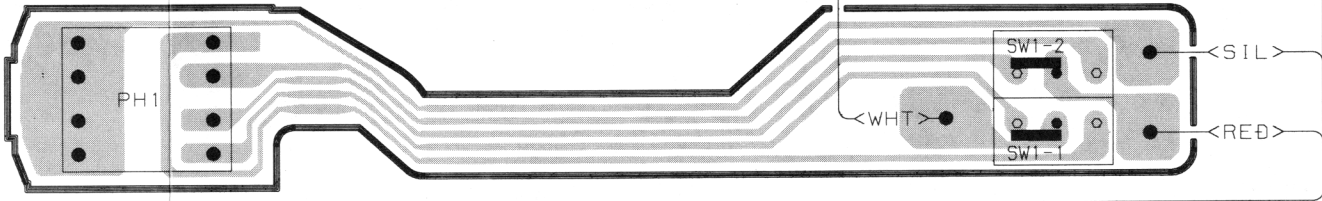


2SC2712
2SC4116
RN1310
RN1410

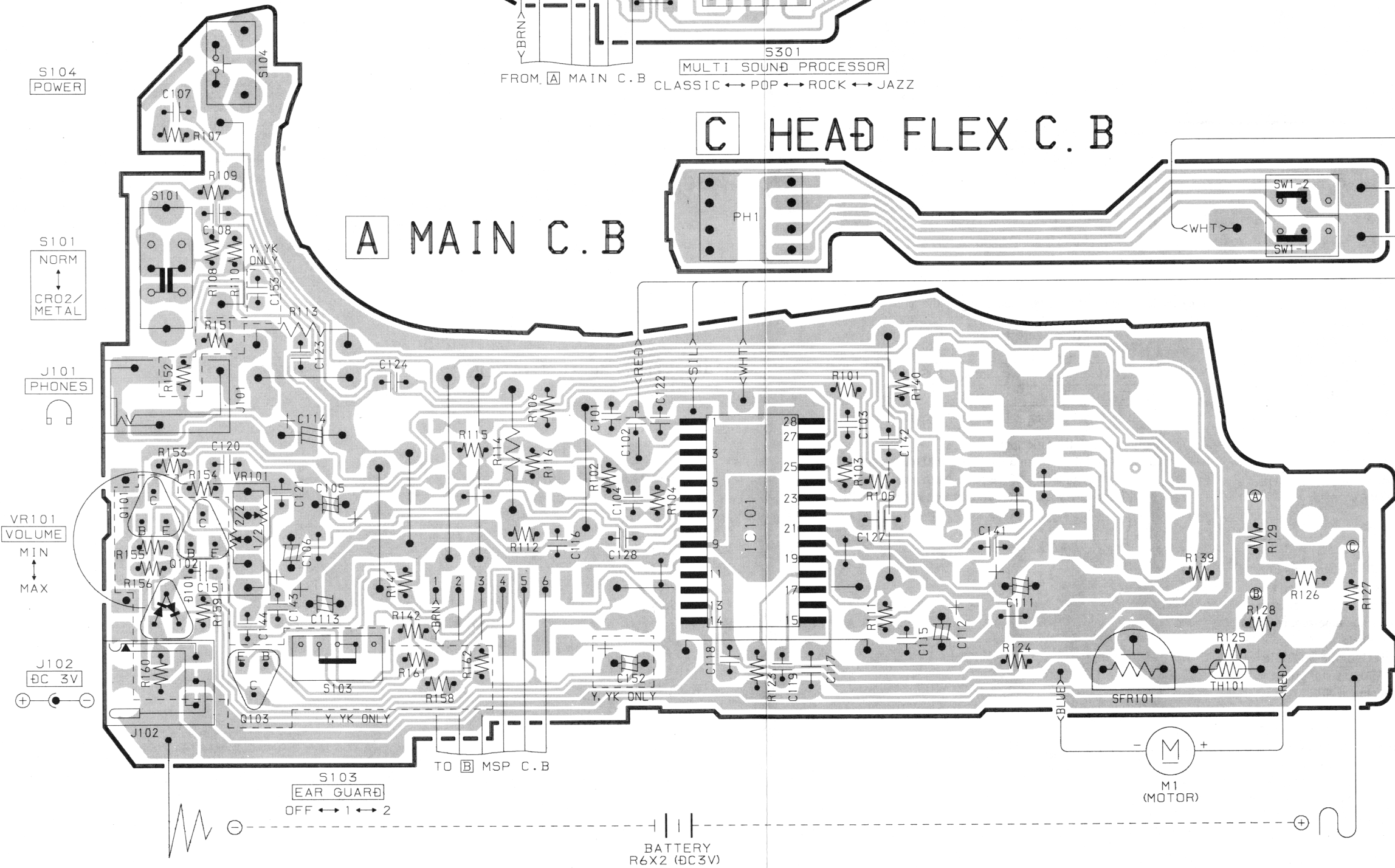
B MSP C.B



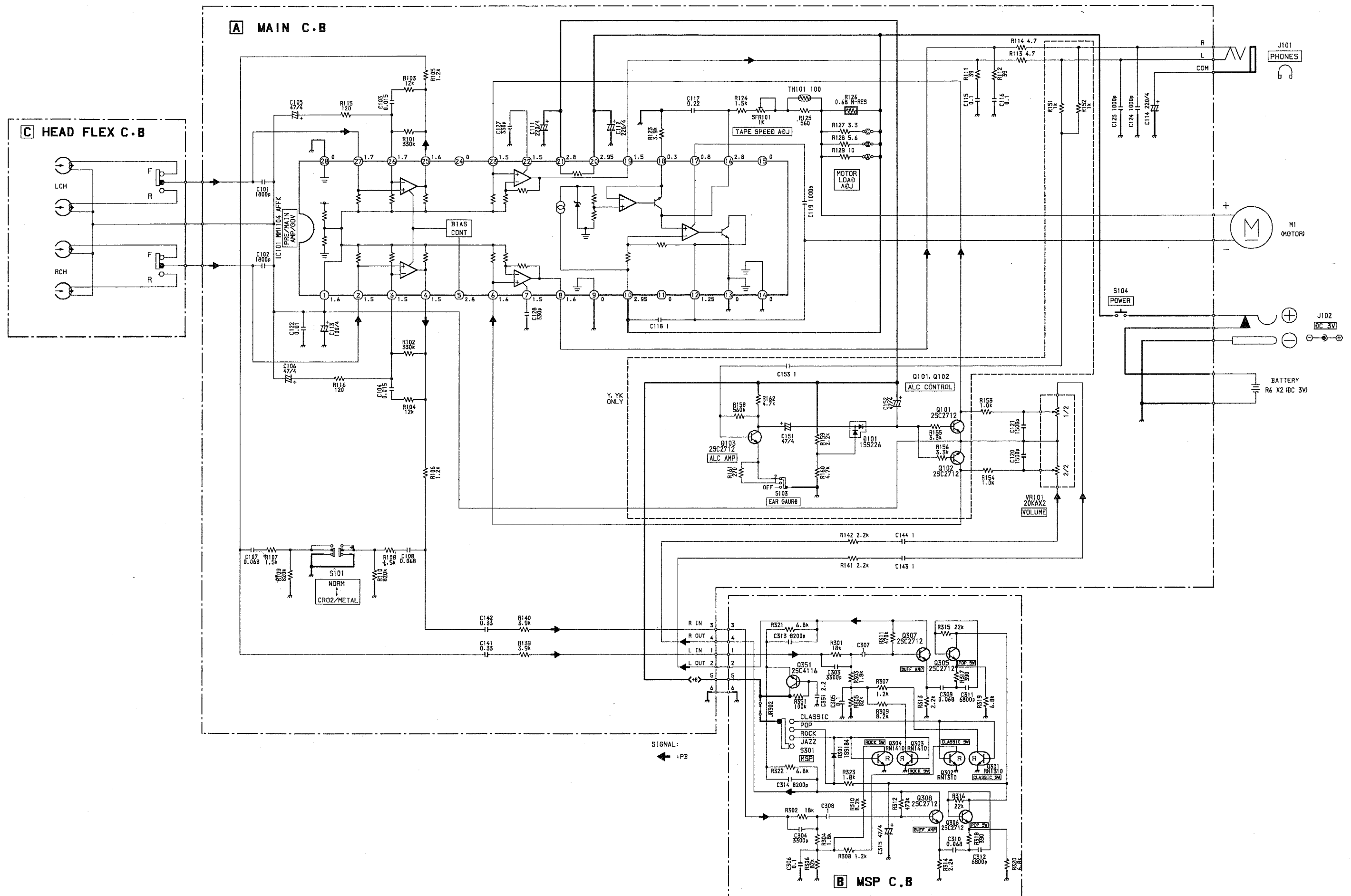
C HEAD FLEX C.B



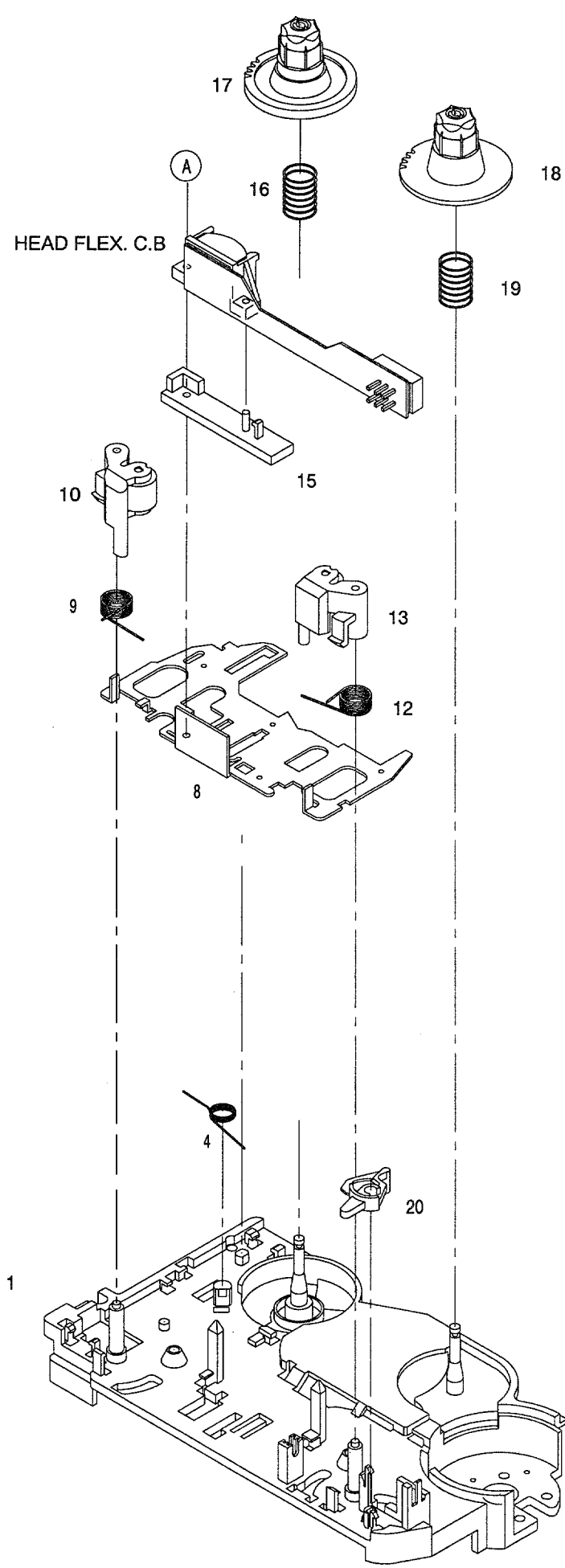
A MAIN C.B

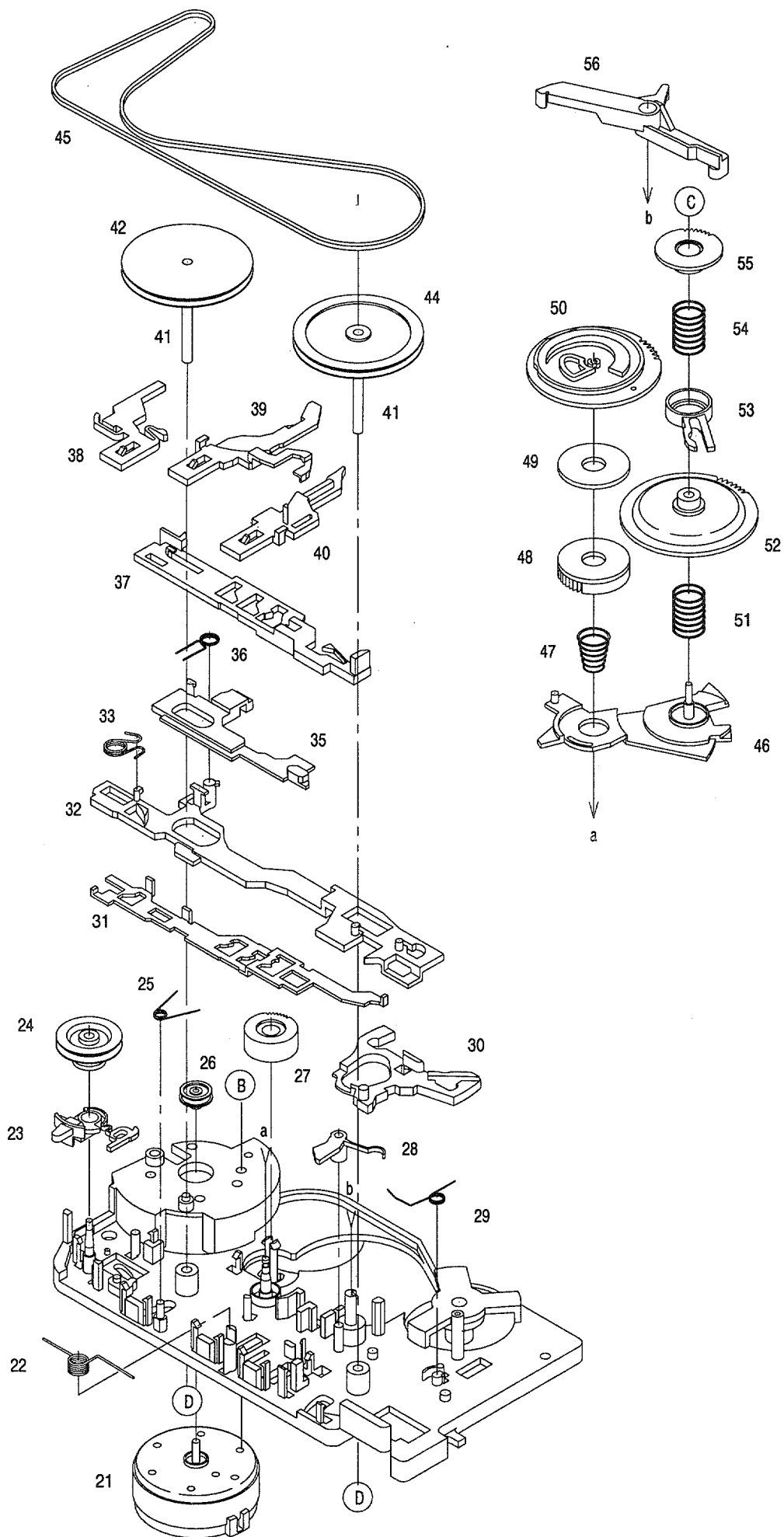


SCHEMATIC DIAGRAM



TAPE MECHANISM EXPLODED VIEW 1 / 1



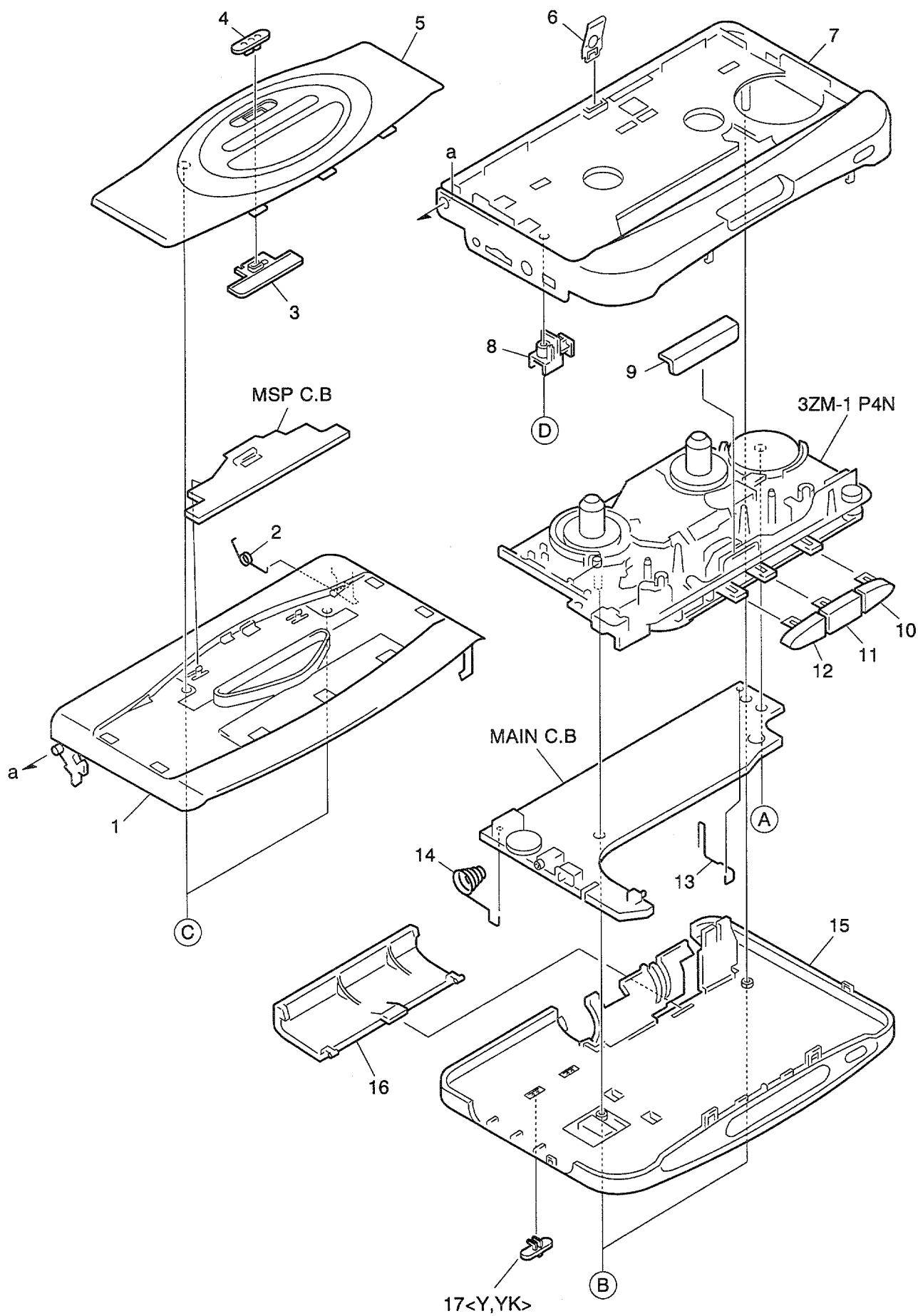


TAPE MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZM1-201-919		CHAS,MAIN	39	83-ZM1-207-119		LVR,BTN FF
4	83-ZM1-281-010		SPR-T,PLAY P	40	83-ZM1-208-119		LVR,BTN REW
8	83-ZM1-206-219		LVR,BTN PLAY	41	83-ZM1-278-010		SHAFT,CAP 2.0SEF
9	83-ZM1-244-019		SPR-T,PINCH L	42	83-ZM1-222-310		FLY-WHL,R
10	83-ZM1-302-010		LEVER ASSY,PINCH L	44	83-ZM1-225-310		FLY-WHL,L
12	83-ZM1-252-319		SPR-T,PINCH JR	45	83-ZM1-288-310		BELT,P
13	83-ZM1-301-010		LEVER ASSY,PINCH R	46	83-ZM1-217-219		LVR,PLAY
15	83-ZM1-286-119		GUIDE,HEAD	47	83-ZM1-230-319		SPR-C,SLIP
16	83-ZM1-269-119		SPR-C,BT L	48	83-ZM1-229-019		GEAR,SLIP
17	83-ZM1-235-41K		GEAR,REEL L	49	83-ZM1-228-119		FELT
18	83-ZM1-234-41K		GEAR,REEL R	50	83-ZM1-292-210		GEAR,AUTO 2
19	83-ZM1-240-119		SPR-C,BT R	51	83-ZM1-241-219		SPR-C,PLAY
20	83-ZM1-210-119		BTN DIR	52	83-ZM1-231-219		GEAR,PLAY
21	87-045-385-019		MOTOR (BCY3B11)	53	83-ZM1-218-219		LVR,SLIP
22	83-ZM1-247-119		SPR-T,FF REW	54	83-ZM1-265-019		SPR-C,AUTO
23	83-ZM1-266-219		BTN,MODE CHG	55	83-ZM1-232-119		GEAR,FR
24	83-ZM1-303-110		PULLEY,BELT 2	56	83-ZM1-273-019		LVR,AUTO 2
25	83-ZM1-264-019		SPR-T,LOCK	A	87-078-111-019		S-SCRW,V+1.7-6
26	83-ZM1-237-21K		PULLEY,MOTOR	B	87-078-100-019		S-SCRW,V+1.7-2.5
27	83-ZM1-233-119		GEAR,R	C	87-078-132-010		PW,1.2-3.5-0.25C-CUT
28	83-ZM1-267-119		LVR,DEF AUTO	D	87-078-086-019		SOMA,1.5-3.5-0.3 SLT
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				
35	83-ZM1-215-119		LVR,FR				
36	83-ZM1-246-119		SPR-T,R L				
37	83-ZM1-213-11K		LVR,SW				
38	83-ZM1-209-219		LVR,BTN STOP				

MECHANICAL EXPLODED VIEW 1 / 1

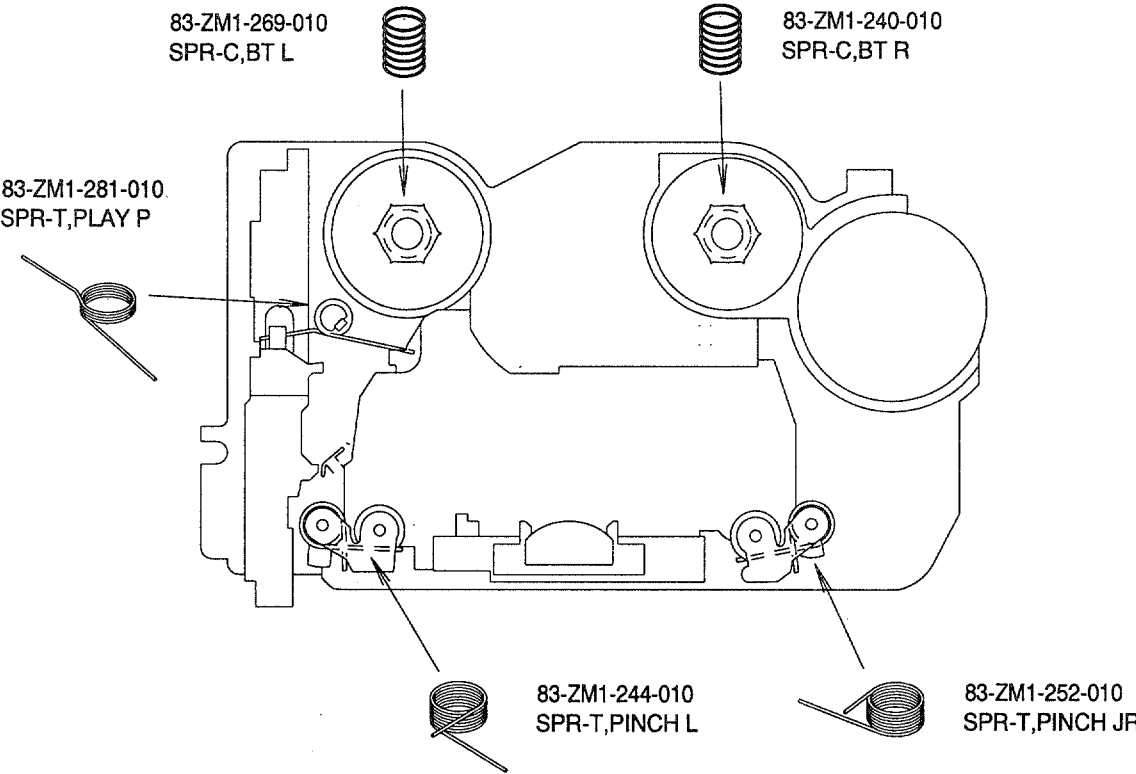
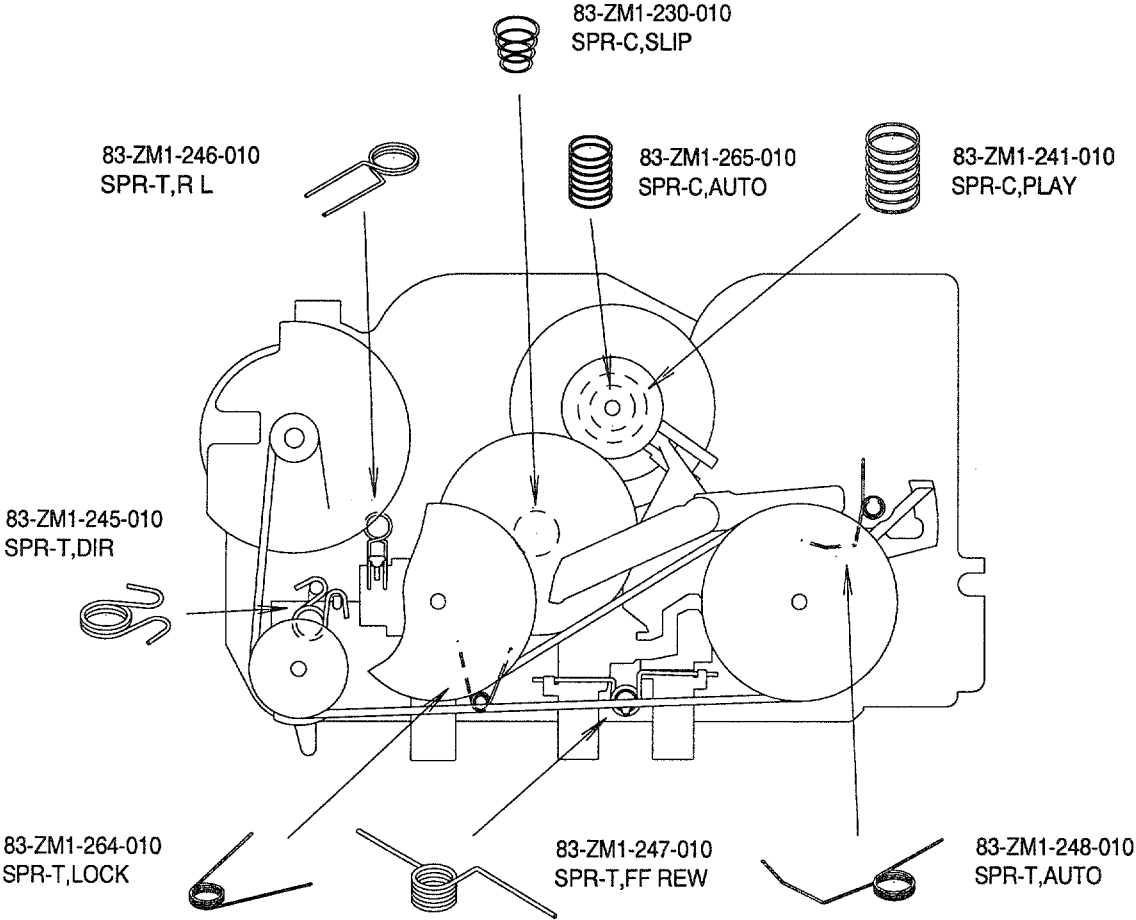


MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-HG9-001-010		LID,CASS GS263<YH>
1	88-HG9-008-010		LID,CASS GS263 EGS<Y,YK>
2	85-HG7-203-010		T-SPR,CASS
3	88-HG9-004-010		PLATE,INDI MSP
4	88-HG9-003-010		KNOB,SL MSP
5	88-HG9-002-010		PANEL,MSP
6	81-HK9-208-210		SPR-P,CASS A
7	88-HK9-006-010		FRAME,CENTER PS262
8	85-HG7-208-010		HLDL,JACK
9	88-HK9-009-010		BTN,PLAY PS262
10	88-HK9-012-010		BTN,STOP PS262
11	88-HK9-011-010		BTN,FF PS262
12	88-HK9-010-010		BTN,REW PS262
13	85-HG7-206-010		BATT-CONT(+)
14	85-HG7-207-010		BATT-CONT(-)
15	88-HK9-007-010		CABI,REAR PS262<YH>
15	88-HK9-017-010		CABI,REAR PS262 EGS<Y,YK>
16	88-HK9-008-010		LID,BAT PS262
17	88-HK9-016-010		KNOB,SL EGS<Y,YK>
A	87-266-529-310		SCREW, V+1.7-4
B	87-067-405-010		SCREW,VP+1.4-6HL
C	87-067-732-010		TAPPING SCREW, VT1.4-3
D	87-067-430-010		VT1.4-5 BLK

SPRING APPLICATION POSITION



ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-HG9-902-010		IB,EX-EC<YH>
1	88-HG9-901-010		IB,EX-EGFSI<Y, YK>
1	88-HG9-903-010		IB,EX-PHNCZ<Y>
2	87-B30-139-010		HEADPHONE,HP-M007(TL)
3	87-080-045-010		HLDR,BELT

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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