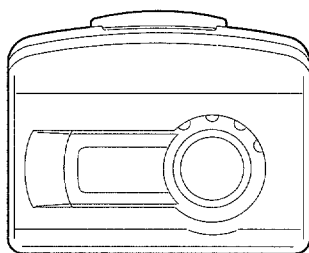


aiwa



HS-EM40 HS-GS183



STEREO CASSETTE PLAYER

- BASIC TAPE MECHANISM : 4ZM-2 P1NC
4ZM-2 P3NC
4ZM-2 P4NC

- TYPE: Y,Y1,YH,YJ,YK,
YU,YZF,YZ<40>

SPECIFICATIONS

Maximum output:	15 mW + 15 mW (EIAJ/16Ω)<Except [B]YZF,[L]YZF> 12 mW + 12 mW (EIAJ/32Ω)
Power source:	DC 3V using two size AA (R6) batteries AC house current using an optional AC adaptor Aiwa AC-620/AC-302<YH>
Maximum dimensions: (W x H x D):	116.8(W) x 92(H) x 36.3(D) mm (4 ⁵ / ₈ x 3 ⁵ / ₈ x 1 ⁷ / ₁₆ in.)
Weight:	Approx. 118 g (4.1oz) (excluding batteries)

- Design and specifications are subject to change without notice.

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-HG8-903-010		IB,EGFSID<YK,Y1,[S]YZ,[L]YZ,[G]YZ,Y>
1	88-HG8-904-010		IB,ESC<YJ>
1	88-HG8-906-010		IB,ESC-YH<YH>
1	88-HG8-907-010		IB,EX-EP<[B]YZF,[L]YZF>
1	88-HG8-901-010		IB,EX-ESF<YU>
1	88-HG8-905-010		IB,EX-PHNCZ<Y1,[S]YZ,[L]YZ,[G]YZ,Y>
2	84-447-019-110		CLIP, BELT
3	87-B30-123-010		HEADPHONE,HP-M006(T)<YH,Y1,YJ,[S]YZ>
3	87-B30-156-010		HEADPHONE,HP-M006G(T)<[G]YZ>
3	87-B30-080-010		HEADPHONE,HP-M009(F)<[B]YZF,[L]YZF,YU,YK,Y>
3	87-B30-155-010		HEADPHONE,HP-M006BL(T)<[L]YZ>

ELECTRICAL MAIN PARTS LIST

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

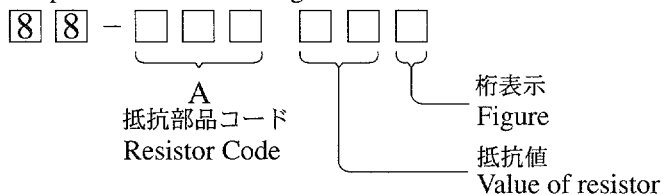
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C133	87-010-178-080		CHIP CAP 1000P
				C140	87-A10-264-080		C-CAP,S 0.1-16ZF
	87-A20-461-040	IC,MM1336DF		C143	87-010-178-080		CHIP CAP 1000P
				C313	87-010-189-080		C-CAP,S 8200P-50 B
				C314	87-010-189-080		C-CAP,S 8200P-50 B
TRANSISTOR				C315	87-010-501-040		E/CAP GAS 47-4
	87-026-475-080	C-TR,RN1607		J101	85-HRL-623-010		JACK,3.5 ST BLK
	87-026-467-080	TR,HN1C01F (0.3W)		J102	87-A60-122-010		JACK,DC 3.8<YH>
				R134	87-025-400-010		PTR XJ1/8W 0.68/4300
				S1	87-A90-133-010		SW LEAF LSA1120JAU
DIODE				S101	87-036-123-080		CHIP SLIDE SWITCH,1-1-2
	87-020-125-080	DIODE,1SS181 (100MA)		S201	87-036-145-080		CHIP SWITCH SLIDE 1-1-3
							<Except YU,YH,YJ>
				SPR101	87-024-197-010		SEMI-FIXED RESISTOR, 1K
MAIN C.B				TH101	87-026-256-090		THERMISTOR, HT-100
	88-HG8-603-010	F-CABLE,7P		VOL101	83-HRC-609-010		VOL 20KAX2
C101	87-010-180-080	CHIP CAP 1500P					
C102	87-010-180-080	CHIP CAP 1500P					
C103	87-010-501-040	E/CAP GAS 47-4	MSP C.B				
C104	87-010-501-040	E/CAP GAS 47-4					
				C303	87-010-184-080		CHIP CAPACITOR 3300P(K)
C105	87-010-197-080	CAP, CHIP 0.01 DM		C304	87-010-184-080		CHIP CAPACITOR 3300P(K)
C106	87-010-197-080	CAP, CHIP 0.01 DM		C305	87-016-669-080		C-CAP,S 0.1-25 K B
C107	87-015-695-040	E/CAP 1UF 50V TAPG		C306	87-016-669-080		C-CAP,S 0.1-25 K B
C108	87-015-695-040	E/CAP 1UF 50V TAPG		C307	87-016-462-080		C-CAP,S 1-16 F
C109	87-010-197-080	CAP, CHIP 0.01 DM					
				C308	87-016-462-080		C-CAP,S 1-16 F
C110	87-010-503-040	CAP,E 220-4 GAS		C309	87-010-195-080		C-CAP,S 0.068-25 F
C111	87-015-695-040	E/CAP 1UF 50V TAPG		C310	87-010-195-080		C-CAP,S 0.068-25 F
C112	87-015-695-040	E/CAP 1UF 50V TAPG		C311	87-010-188-080		CAP,CHIP 6800P
C121	87-010-182-080	C-CAP,S 2200P-50 B		C312	87-010-188-080		CAP,CHIP 6800P
C122	87-010-182-080	C-CAP,S 2200P-50 B					
				S301	87-036-146-080		C-SLIDE SWITCH 1-1-4
C123	87-015-674-040	CAP E 22-6.3M SRA					
C124	87-015-674-040	CAP E 22-6.3M SRA					
C125	87-010-197-080	CAP, CHIP 0.01 DM					
C126	87-010-197-080	CAP, CHIP 0.01 DM					
C127	87-015-691-040	CAP,E0.1-50 SRA					
C128	87-010-194-080	CAP, CHIP 0.047					
C129	87-010-503-040	CAP,E 220-4 GAS					
C130	84-439-620-010	CAP, ELECT 470-4					
C131	87-015-695-040	E/CAP 1UF 50V TAPG					
C132	87-A10-264-080	C-CAP,S 0.1-16ZF					

CHIP RESISTOR PART CODE

○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

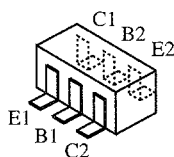
Chip Resistor Part Coding



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

TRANSISTOR ILLUSTRATION



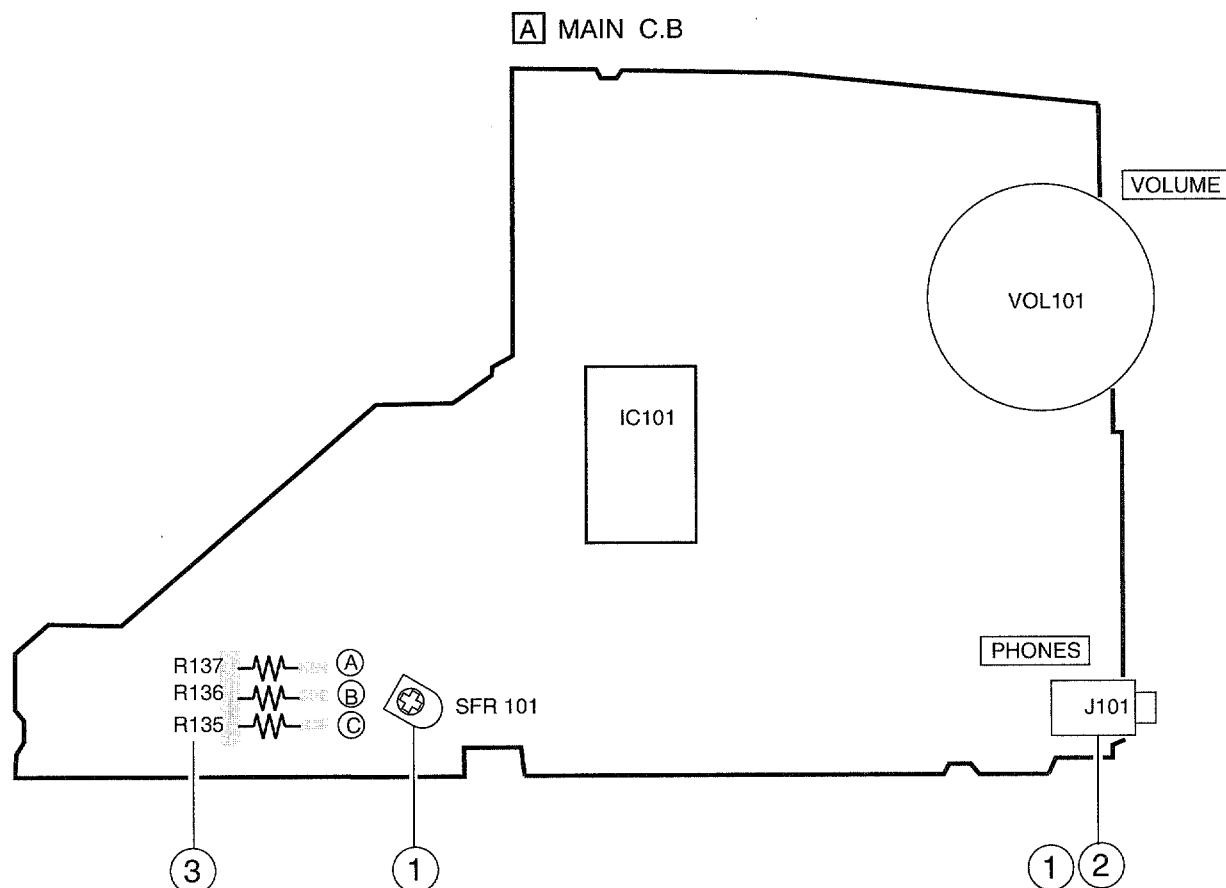
HN1C01
RN1607

PRACTICAL SERVICE FIGURE

<TAPE SECTION>

Tape speed :	3000Hz ± 60Hz
Wow & flutter :	Less than 0.5% (RMS)
Take-up torque :	35 ~ 50g-cm (FWD)
F.F torque :	More than 36g-cm
Rew torque :	60~170g-cm
Back tension :	1.5~4.5g-cm(FWD)
S/N ratio :	More than 42dB (PB, DC)
Distortion :	Less than 3.0% (PB, DC)
Noise level :	Less than 5.0mV (Vol MAX, PB, DC) Less than 0.3mV (Vol MIN, PB, DC)
Frequency response :	63Hz+0/-8dB ~ 8kHz+4/-4dB(NORM) 63Hz+0/-8dB ~ 10kHz+4/-4dB(CRO2)
Test tape :	TTA-210 TTA-320(NORM) TTA-330 TTA-100

ADJUSTMENT



<TAPE PLAYER SECTION>

1. Tape Speed Adjustment

Settings : • Test tape : TTA-100 (TAPE CENTER)

• Test point : PHONES JACK (J101)

• Adjustment location : SFR101

Method : Play back the test tape and adjust for $3000\text{Hz} \pm 10\text{Hz}$.

2. Azimuth Adjustment

Settings : • Test tape : TTA-320 (TTA-3.30)

• Test point : PHONES JACK (J101)

• Adjustment location : Head azimuth adjustment screw

Method : Play back the test tape and adjust screw so that the 8kHz signal output is maximum.

3. GOVERNOR 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 beginning of the tape-run, perform this adjustment following the procedures below.

- 1) Solder both resistors 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 beginning of the tape-run.

5) When the rise of tape running is smooth, no more adjustment is necessary.

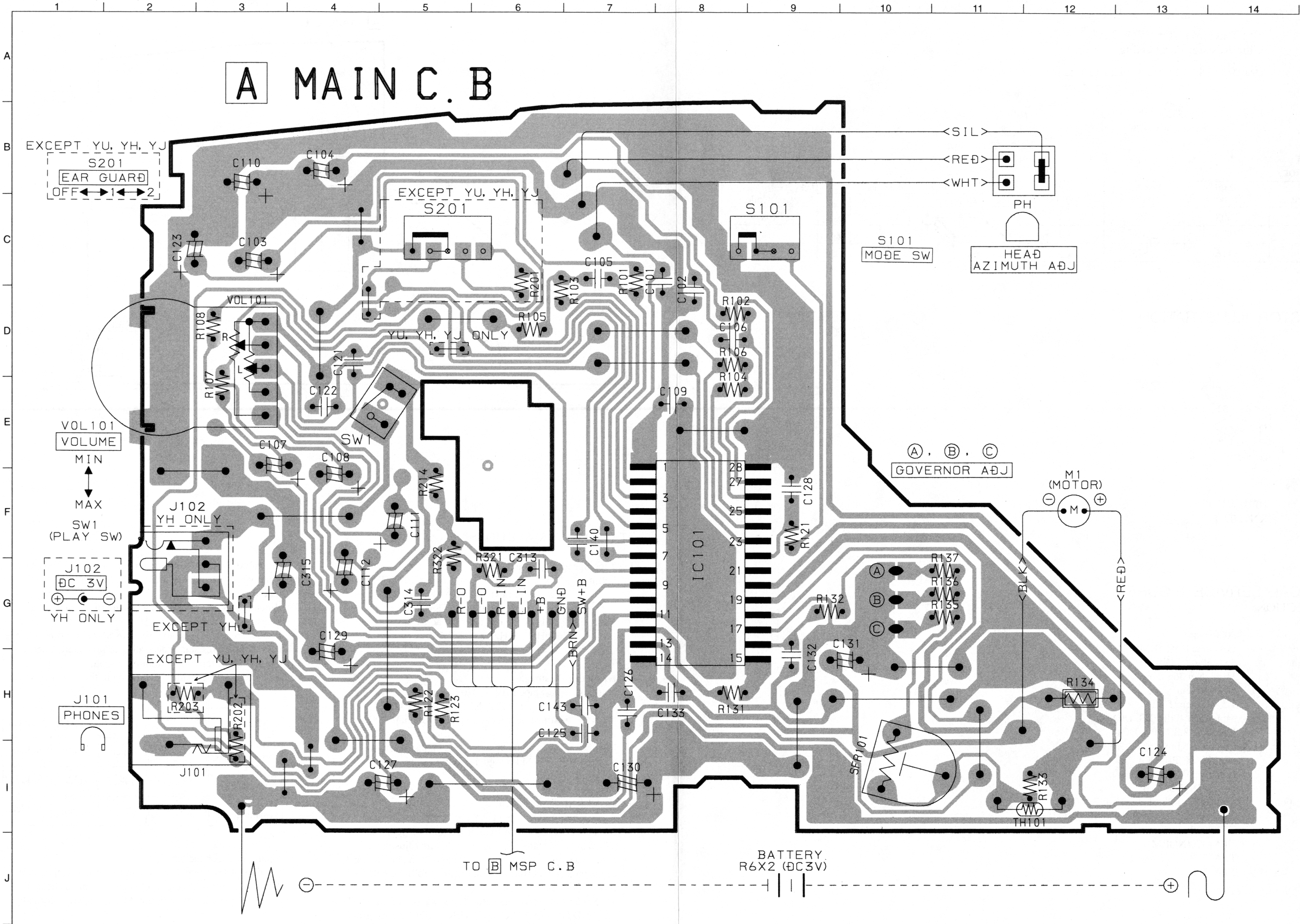
If wow continues for 1 to 2 seconds at the rise time, change the combined resistance according to procedure 6 and check that the tape starts running smooth.

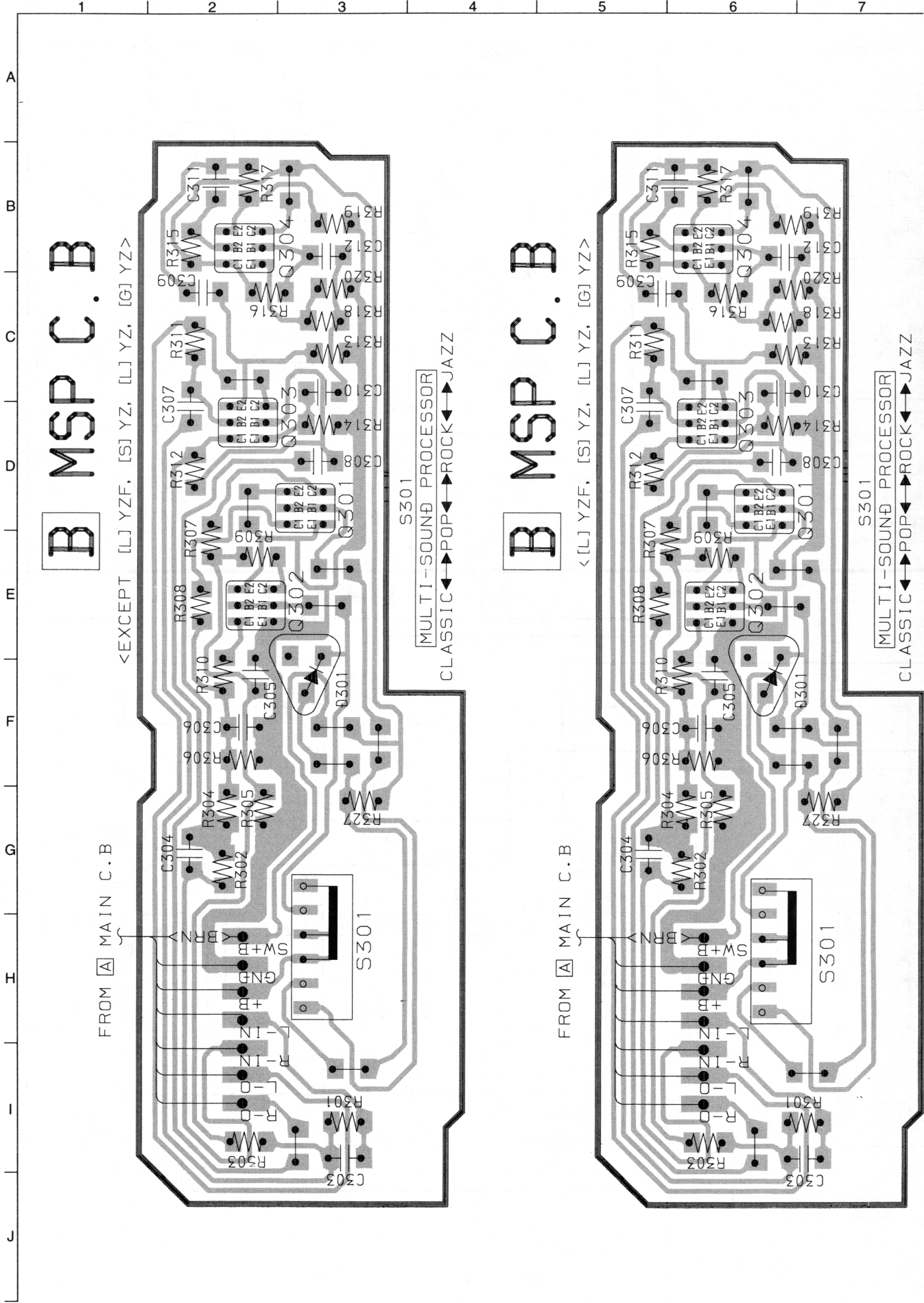
6) Solder the resistor pattern according to the table below

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

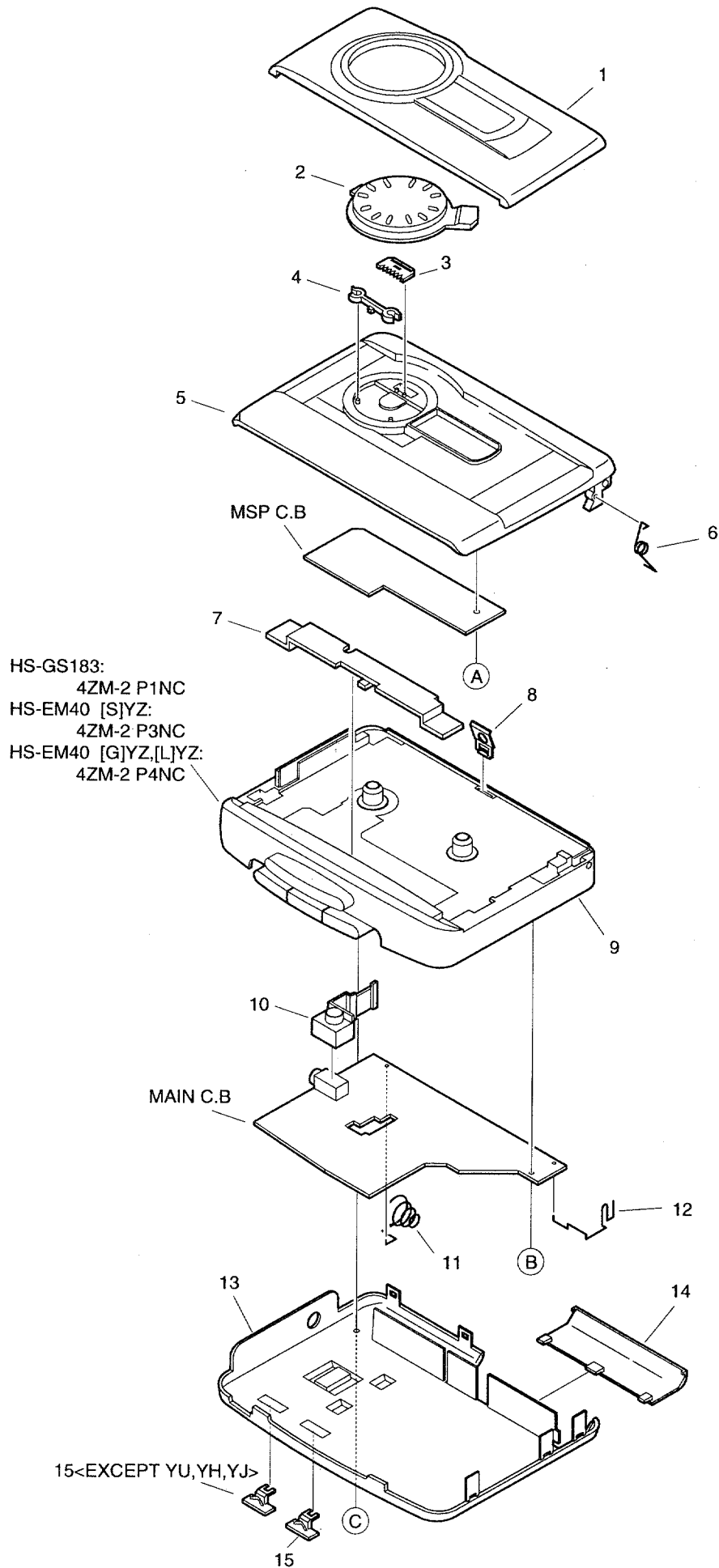
7) Finally re-check the tape speed.

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





MECHANICAL EXPLODED VIEW 1 / 1

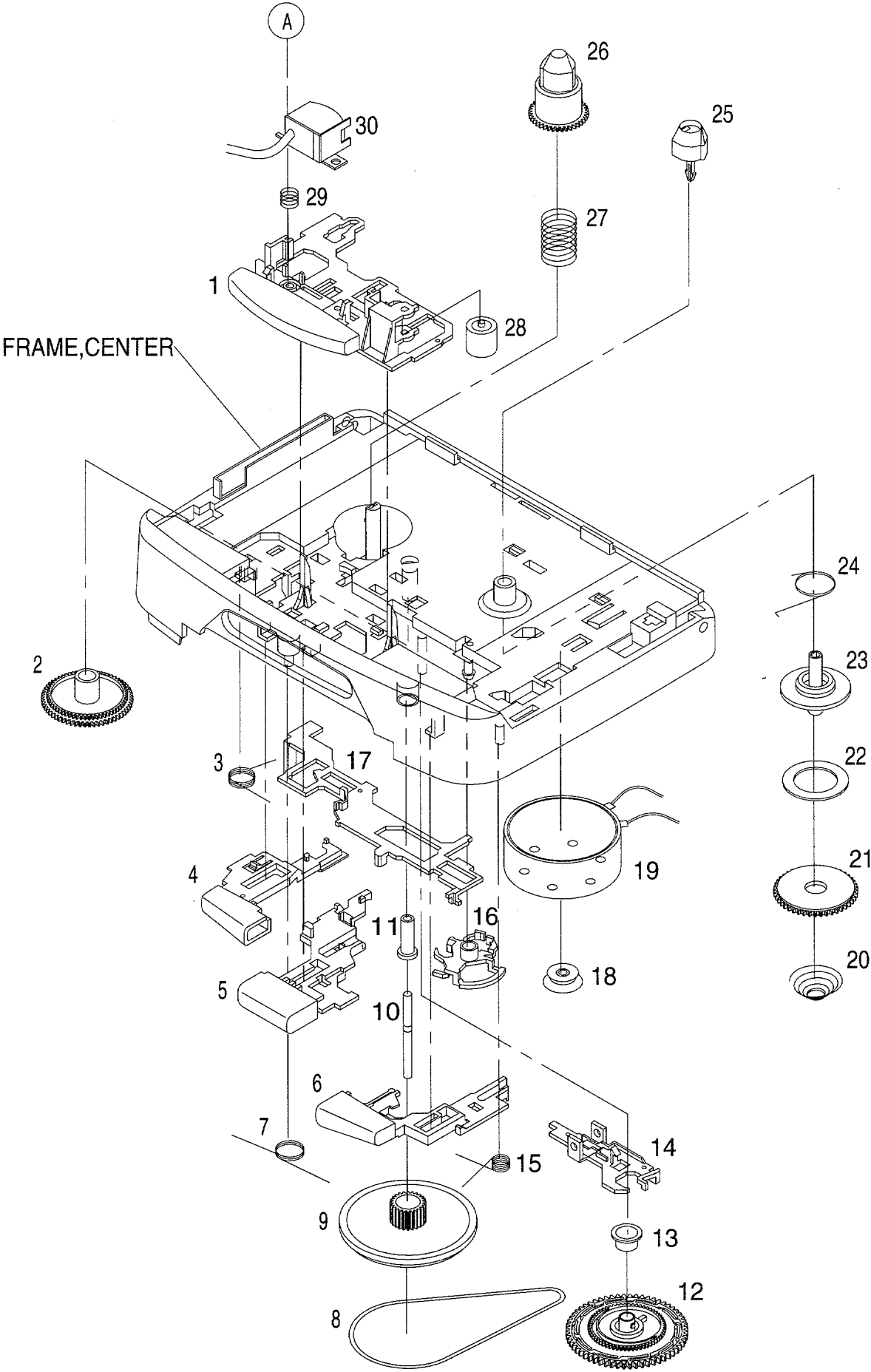


MECHANICAL PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-HG8-002-010		PANEL,MSP<YU,YH,YJ>
1	88-HG8-006-010		PANEL,MSP EGS<[B]YZF,[L]YZF,YK,Y1,Y>
1	88-HG8-022-010		PANEL,MSP EM40 BLU<[L]YZ>
1	88-HG8-017-010		PANEL,MSP EM40 GRN<[G]YZ>
1	88-HG8-029-010		PANEL,MSP EM40 SIL<[S]YZ>
2	88-HG8-003-010		KNOB,RTRY MSP<[B]YZF,YU,YK,YH,Y1,YJ,Y>
2	88-HG8-013-010		KNOB,RTRY MSP EM40<[L]YZF,[S]YZ,[L]YZ,[G]YZ>
3	88-HG8-201-010		RACK,MSP
4	87-HG8-213-010		SPR,CLICK A
5	88-HG8-001-010		LID,CASS<[B]YZF,YU,YK,YH,Y1,YJ,Y>
5	88-HG8-021-010		LID,CASS EM40 BLU<[L]YZ>
5	88-HG8-016-010		LID,CASS EM40 GRN<[G]YZ>
5	88-HG8-026-010		LID,CASS EM40 SIL<[S]YZ>
5	88-HG8-012-010		LID,CASS J-133B<[L]YZF>
6	86-HRM-205-010		SPR-T,CLICK
7	87-HRM-201-010		PLATE,HEAD GRAY<Except [S]YZ,[L]YZ,[G]YZ>
7	88-HG8-204-010		PLATE,HEAD J-034N<[S]YZ>
7	88-HG8-203-010		PLATE,HEAD J-240B<[L]YZ>
7	88-HG8-202-010		PLATE,HEAD J-266G<[G]YZ>
8	81-HK9-208-210		SPR-P,CASS A
9	87-HKB-018-010		FRAME,CENTER BLK<Except [S]YZ,[L]YZ,[G]YZ>
9	88-HG8-031-010		FRAME,CENTER J-034N<[S]YZ>
9	88-HG8-023-010		FRAME,CENTER J-240B<[L]YZ>
9	88-HG8-018-010		FRAME,CENTER J-266G<[G]YZ>
10	88-HKB-203-010		HLDR,DCJACK<YH>
10	86-HKA-201-010		HLDR,JACK<Except YH>
11	86-HKA-203-010		BAT-CONTACT, (-)
12	86-HKA-202-010		BAT-CONTACT, (+)
13	88-HG8-005-010		CABI,REAR<YU,YJ>
13	88-HG8-004-010		CABI,REAR DC<YH>
13	88-HG8-011-010		CABI,REAR EGS<[B]YZF,YK,Y1,Y>
13	88-HG8-027-010		CABI,REAR EGS J-089N<[S]YZ>
13	88-HG8-019-010		CABI,REAR EGS J-129G<[G]YZ>
13	88-HG8-014-010		CABI,REAR EGS J-133B<[L]YZF>
13	88-HG8-024-010		CABI,REAR EGS J-224B<[L]YZ>
14	88-HG8-007-010		LID,BAT GRY<[B]YZF,YU,YK,YH,Y1,YJ,Y>
14	88-HG8-015-010		LID,BATT BLU J-133B<[L]YZF>
14	88-HG8-028-010		LID,BATT J-089N<[S]YZ>
14	88-HG8-020-010		LID,BATT J-129G<[G]YZ>
14	88-HG8-025-010		LID,BATT J-224B<[L]YZ>
15	87-HG8-004-010		KNOB,SL EGS<[B]YZF,YU,YK,YH,Y1,YJ,Y>
15	87-HG8-038-010		KNOB,SL EGS J-089N<[S]YZ>
15	87-HG8-036-010		KNOB,SL EGS J-129G<[G]YZ>
15	87-HG8-039-010		KNOB,SL EGS J-133B<[L]YZF>
15	87-HG8-037-010		KNOB,SL EGS J-224B<[L]YZ>
A	87-067-732-010		TAPPING SCREW, VT1.4-3
B	87-264-525-310		SCREW, V+1.7-2.5
C	87-067-691-010		SCREW VT+1.7-6

TAPE MECHANISM EXPLODED VIEW 1 / 1 (4ZM-2 P1NC)
HS - GS183 : Y, Y1, YH, YJ, YK, YU, YZF



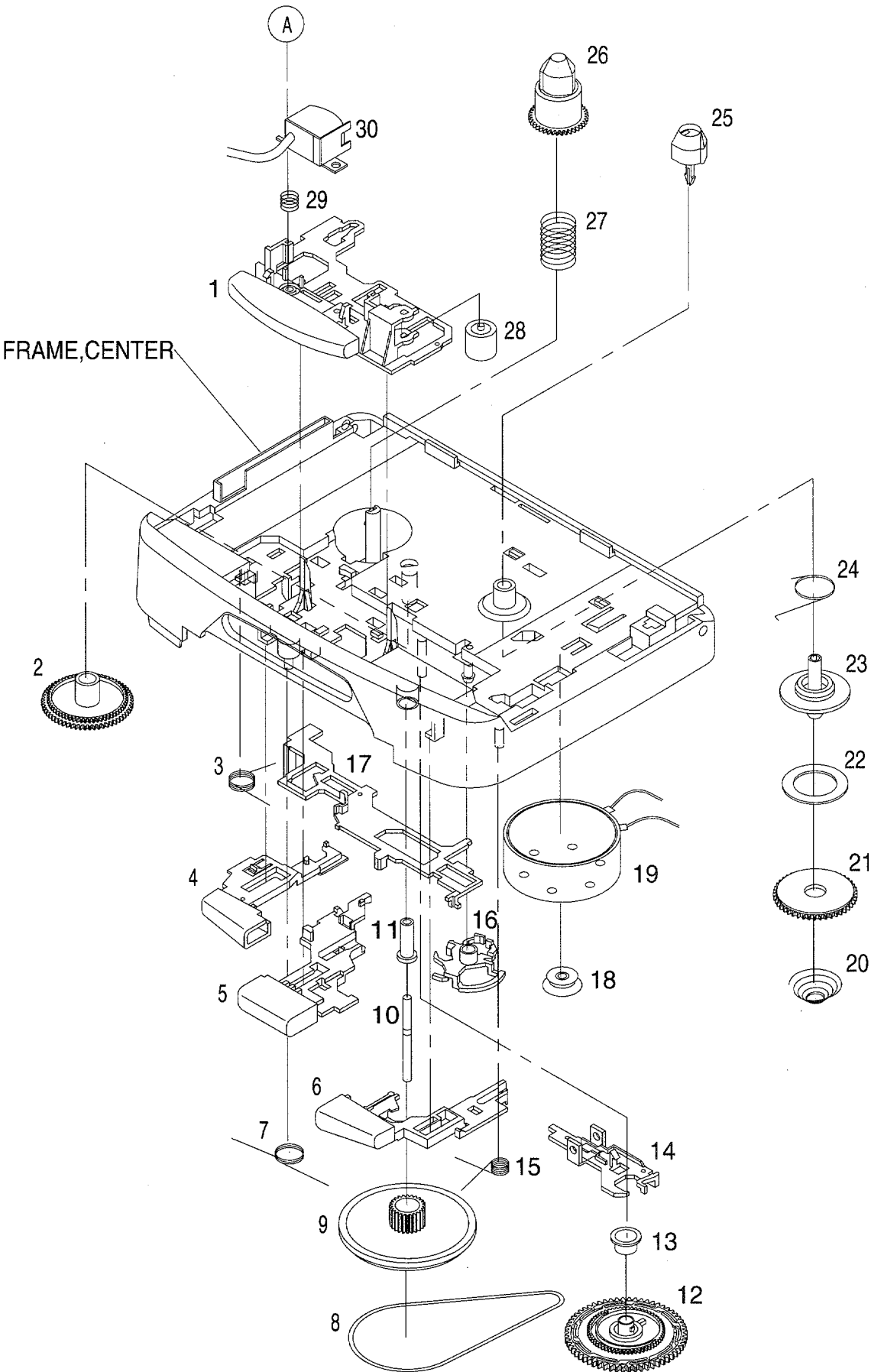
TAPE MECHANISM PARTS LIST 1 / 1 (4ZM – 2 P1NC)

HS – GS183 : Y, Y1, YH, YJ, YK, YU, YZF

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZM2-002-01K		LEVER, PLAY
2	84-ZM2-211-01K		GEAR, CONNECT
3	84-ZM2-222-010		SPR-T, PLAY
4	84-ZM2-005-01K		LEVER, STOP
5	84-ZM2-004-01K		LEVER, REW
6	84-ZM2-003-01K		LEVER, FF
7	84-ZM2-223-010		SPR-T, REW STOP
8	84-ZM2-232-010		BELT, MAIN
9	84-ZM2-214-01K		FLY-WHL, P
10	84-ZM2-230-010		CAPSTAN, P 1.8-25
11	84-ZM2-220-01K		BRG, P
12	84-ZM2-210-01K		GEAR, AUTO
13	84-ZM2-218-01K		CAP, GEAR AUTO
14	84-ZM2-208-01K		LEVER, SHIFT
15	84-ZM2-224-010		SPR-T, FF LOCK
16	84-ZM2-207-01K		LEVER, AUTO
17	84-ZM2-206-01K		LEVER, LOCK
18	84-ZM2-219-01K		PULLEY, MOTOR
19	87-045-385-019		MOT (BCY3B11)
20	84-ZM2-226-010		SPR-C, CLUTCH
21	84-ZM2-212-01K		GEAR, CLUTCH
22	84-ZM2-231-019		FELT, CLUTCH
23	84-ZM2-217-01K		SHAFT, REEL
24	84-ZM2-225-010		SPR-T, AUTO FIND
25	84-ZM2-216-01K		REEL TABLE, R
26	84-ZM2-215-01K		REEL TABLE, L
27	84-ZM2-228-010		SPR-C, BT
28	84-ZM2-233-110		PINCH ROL ASSY
29	84-ZM2-227-010		SPR-C, AZIMUTH
30	87-A90-272-010		HEAD, PH MS25P ETH
A	84-ZM2-242-019		S-SCREW, AZIMUTH-2-5.9

TAPE MECHANISM EXPLODED VIEW 1 / 1 (4ZM - 2 P3NC)
HS - EM40 : [S]YZ



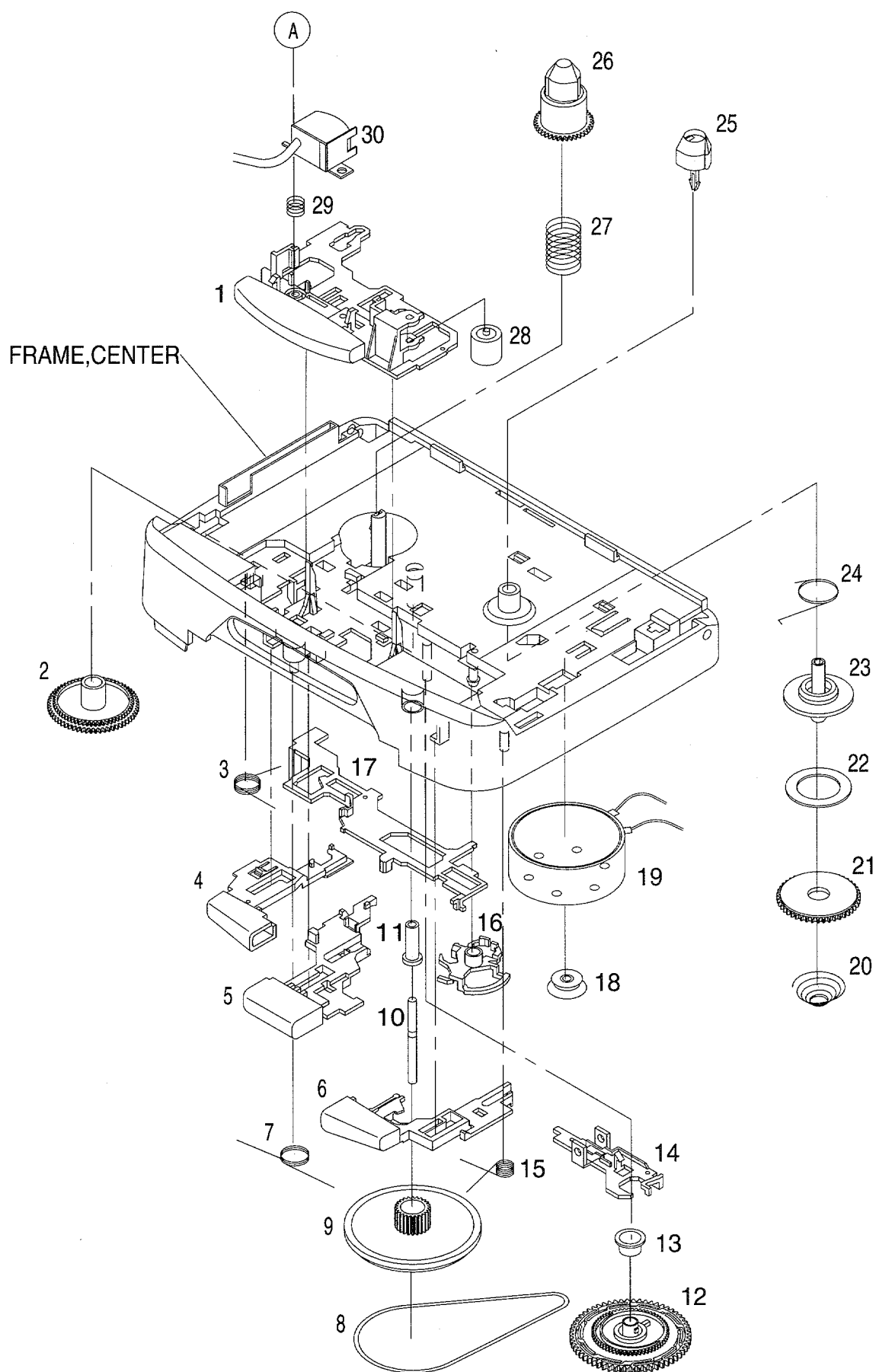
TAPE MECHANISM PARTS LIST 1 / 1 (4ZM - 2 P3NC)

HS - EM40 : [S]YZ

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	84-ZM2-012-010		LEVER, PLAY G	21	84-ZM2-212-01K		GEAR, CLUTCH
2	84-ZM2-211-01K		GEAR, CONNECT	22	84-ZM2-231-019		FELT, CLUTCH
3	84-ZM2-222-010		SPR-T, PLAY	23	84-ZM2-217-01K		SHAFT, REEL
4	84-ZM2-015-010		LEVER, STOP G	24	84-ZM2-225-010		SPR-T, AUTO FIND
5	84-ZM2-014-010		LEVER, REW G	25	84-ZM2-216-01K		REEL TABLE, R
6	84-ZM2-013-010		LEVER, FF G	26	84-ZM2-215-01K		REEL TABLE, L
7	84-ZM2-223-010		SPR-T, REW STOP	27	84-ZM2-228-010		SPR-C, BT
8	84-ZM2-232-010		BELT, MAIN	28	84-ZM2-233-110		PINCH ROL ASSY
9	84-ZM2-221-010		FLY-WHL, P2	29	84-ZM2-227-010		SPR-C, AZIMUTH
10	84-ZM2-230-010		CAPSTAN, P 1.8-25	30	87-A90-272-010		HEAD, PH MS25P ETH
11	84-ZM2-220-01K		BRG, P	A	84-ZM2-242-019		S-SCREW, AZIMUTH-2-5.9
12	84-ZM2-210-01K		GEAR, AUTO				
13	84-ZM2-218-01K		CAP, GEAR AUTO				
14	84-ZM2-208-01K		LEVER, SHIFT				
15	84-ZM2-224-010		SPR-T, FF LOCK				
16	84-ZM2-207-01K		LEVER, AUTO				
17	84-ZM2-206-01K		LEVER, LOCK				
18	84-ZM2-219-01K		PULLEY, MOTOR				
19	87-045-385-019		MOT (BCY3B11)				
20	84-ZM2-226-010		SPR-C, CLUTCH				

TAPE MECHANISM EXPLODED VIEW 1 / 1 (4ZM - 2 P4NC)
 HS - EM40 : [G]YZ, [L]YZ

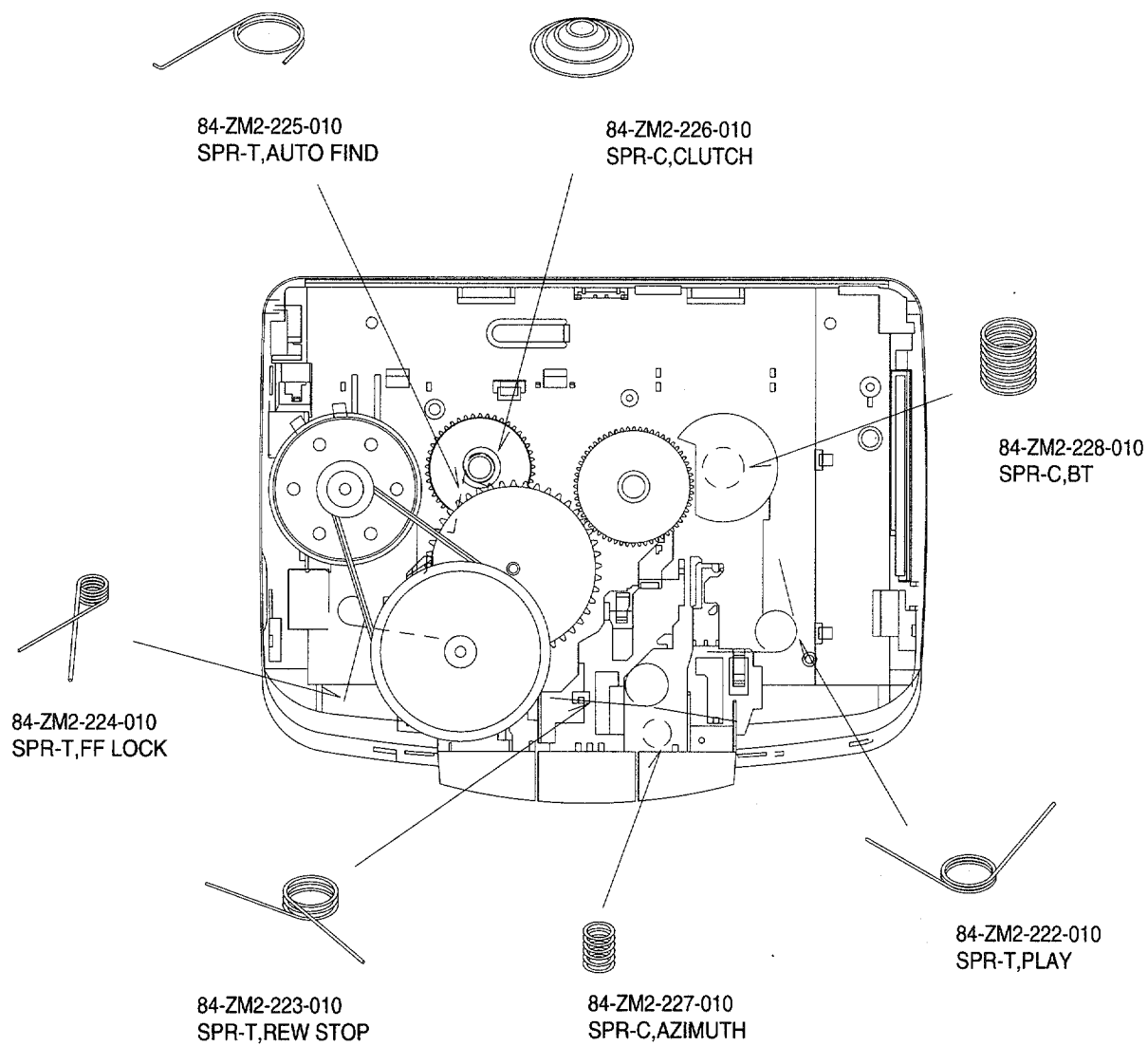


TAPE MECHANISM PARTS LIST 1 / 1 (4ZM - 2 P4NC)
HS - EM40 : [G]YZ, [L]YZ

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION			
1	84-ZM2-022-010		LEVER, PLAY L BLK	21	84-ZM2-212-010	GEAR, CLUTCH
2	84-ZM2-211-010		GEAR, CONNECT	22	84-ZM2-231-110	FELT, CLUTCH
3	84-ZM2-222-110		SPR-T, PLAY	23	84-ZM2-217-210	SHAFT, REEL
4	84-ZM2-025-010		LEVER, STOP L BLK	24	84-ZM2-225-010	SPR-T, AUTO FIND
5	84-ZM2-024-010		LEVER, REW L BLK	25	84-ZM2-216-210	REEL TABLE, R
6	84-ZM2-023-010		LEVER, FF L BLK	26	84-ZM2-215-110	REEL TABLE, L
7	84-ZM2-223-110		SPR-T, REW STOP	27	84-ZM2-228-210	SPR-C, BT
8	84-ZM2-244-010		BELT, MAIN Y	28	84-ZM2-233-110	PINCH ROL ASSY
9	84-ZM2-221-110		FLY-WHL, P2	29	84-ZM2-227-310	SPR-C, AZIMUTH
10	84-ZM2-230-110		CAPSTAN, P 1.8-25	30	87-A90-272-010	HEAD, PH MS25P ETH
11	84-ZM2-220-110		BRG, P	A	84-ZM2-252-010	S-SCREW, AZI-2-6.4 C
12	84-ZM2-210-210		GEAR, AUTO			
13	84-ZM2-218-00K		CAP, GEAR AUTO			
14	84-ZM2-208-310		LEVER, SHIFT			
15	84-ZM2-224-110		SPR-T, FF LOCK			
16	84-ZM2-207-310		LEVER, AUTO			
17	84-ZM2-206-410		LEVER, LOCK			
18	84-ZM2-219-010		PULLEY, MOTOR			
19	87-045-385-110		MOT (BCY3B11)			
20	84-ZM2-226-510		SPR-C, CLUTCH			

SPRING APPLICATION POSITION (4ZM - 2 P1NC / P3NC / P4NC)



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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