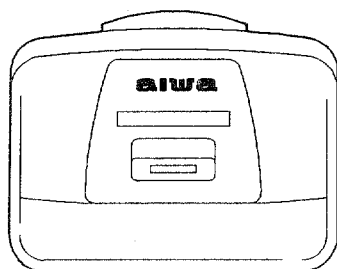


aiwa



HS-PS171



STEREO CASSETTE PLAYER

• BASIC TAPE MECHANISM: 4ZM-2 P1N

• TYPE: YU.YJ1.YZ.Y

MANUAL
SERVICE

SPECIFICATIONS

Maximum output	20 mW + 20 mW (EIAJ 16 Ω) 15 mW + 15 mW (EIAJ 32 Ω)
Power source	DC 3V using two size AA (R6) batteries
Maximum dimensions	116.8 (W) x 92.5 (H) x 35 (D) mm
Weight	(4 ⁵ / ₈ x 3 ³ / ₄ x 1 ⁷ / ₁₆ inches) Approx. 115 g (4.0 oz) (excluding batteries)

The specifications and external appearance of this unit are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

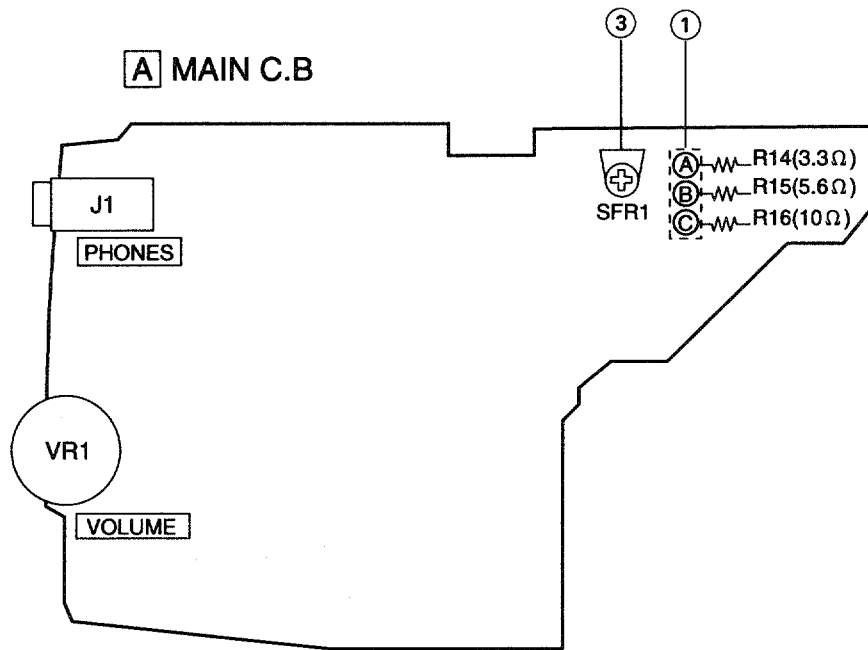
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-447-019-310		CLIP, BELT
2	87-B30-078-010		HEADPHONE, HP-M006<YJ1>
2	87-B30-081-010		HEADPHONE, HP-M009(S)<EXCEPT YJ1>
3	87-HKB-903-010		IB, EX-EGFSI-S<EXCEPT YU, YJ1>
3	87-HKB-907-010		IB, EX-ESC-B<YJ1>
3	87-HKA-901-010		IB, EX-ESF-S<YU>

ELECTRICAL MAIN PARTS LIST

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C28	87-010-493-040		CAP,E 0.47-50 GAS
	87-070-160-040	IC,MM1104AFFK		J1	85-HRL-623-010		JACK,3.5 ST BLK
				R13	87-022-657-080		RES,K34G 0.68
				SFR1	87-024-197-010		SEMI-FIXED RESISTOR, 1K
				SW1	87-A90-133-010		SW LEAF LSA1120JAU
MAIN C.B				TH1	87-026-256-090		THERMISTOR, HT-100
C3	87-010-501-040	E/CAP GAS 47-4		VR1	83-HRC-609-010		VOL 20KAX2
C4	87-010-501-040	E/CAP GAS 47-4					
C15	87-010-503-040	CAP,E 220-4 GAS		S-BASS C.B			
C16	87-010-503-040	CAP,E 220-4 GAS		SW2	87-036-384-080		C-SW,SL SSSS7 2-2
C17	87-010-502-040	CAP ELECT GAS 100/4					
C18	87-010-502-040	CAP ELECT GAS 100/4					
C19	87-016-350-040	CAP,E 470-4 MA GAS					
C20	87-010-494-040	CAP,E 1-50 GAS					
C22	87-018-209-080	CAP, CER 0.1-50V					
C27	87-010-493-040	CAP,E 0.47-50 GAS					

ELECTRICAL ADJUSTMENT



<TAPE PLAYER>

1. Motor Load Adjustment

Perform the STOP → PLAY after the motor is replaced. When the tape starts running smooth, this adjustment is not necessary. This adjustment following the procedure below.

- 1) Solder only medium resistor pattern (B) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.
- 2) Set the tape speed (using speed adjustment SFR).
- 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, 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(C)	Open	Open	Solder	Open
Medium resistance(B)	Solder	Open	Open	Solder
Low resistance(A)	Open	Solder	Solder	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.

2. Azimuth Adjustment

Settings : Test tape : TTA-320 (TTA-330)
Test point : PHONES JACK (J1)
Adjustment location : Azimuth adjustment screw

TAPE SELECTOR : CrO₂
VOLUME : MAX

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

3. Tape Speed Adjustment

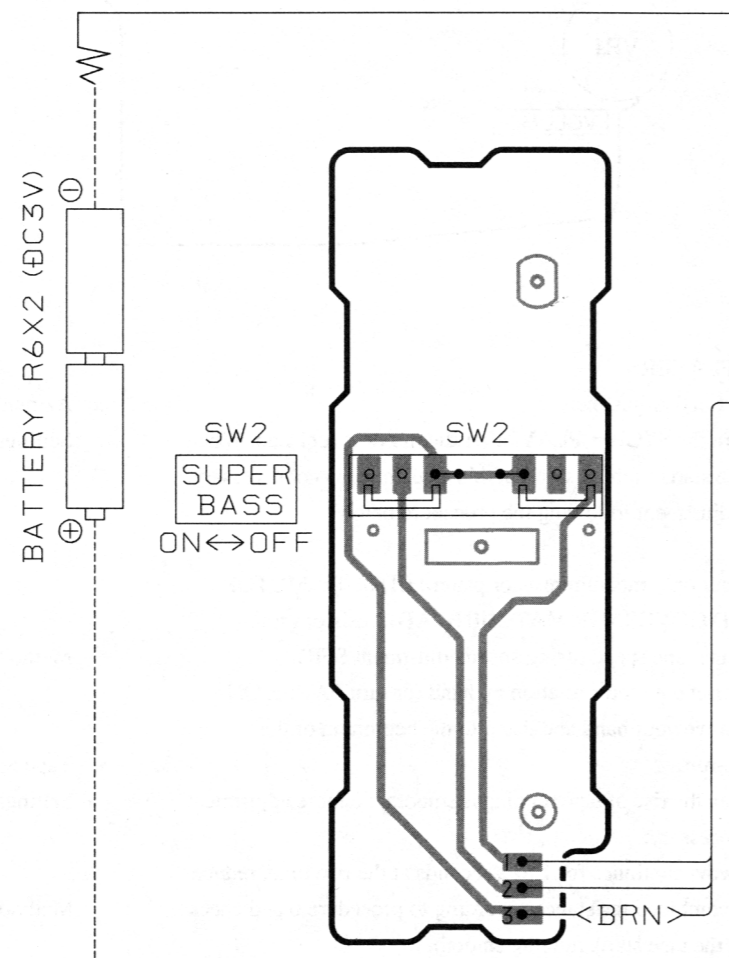
Settings : Test tape : TTA-100(TTA-111S)
Test point : PHONES JACK (J1)
Adjustment location : SFR1

Method : Play back the test tape and adjust for 3000Hz ± 10Hz.

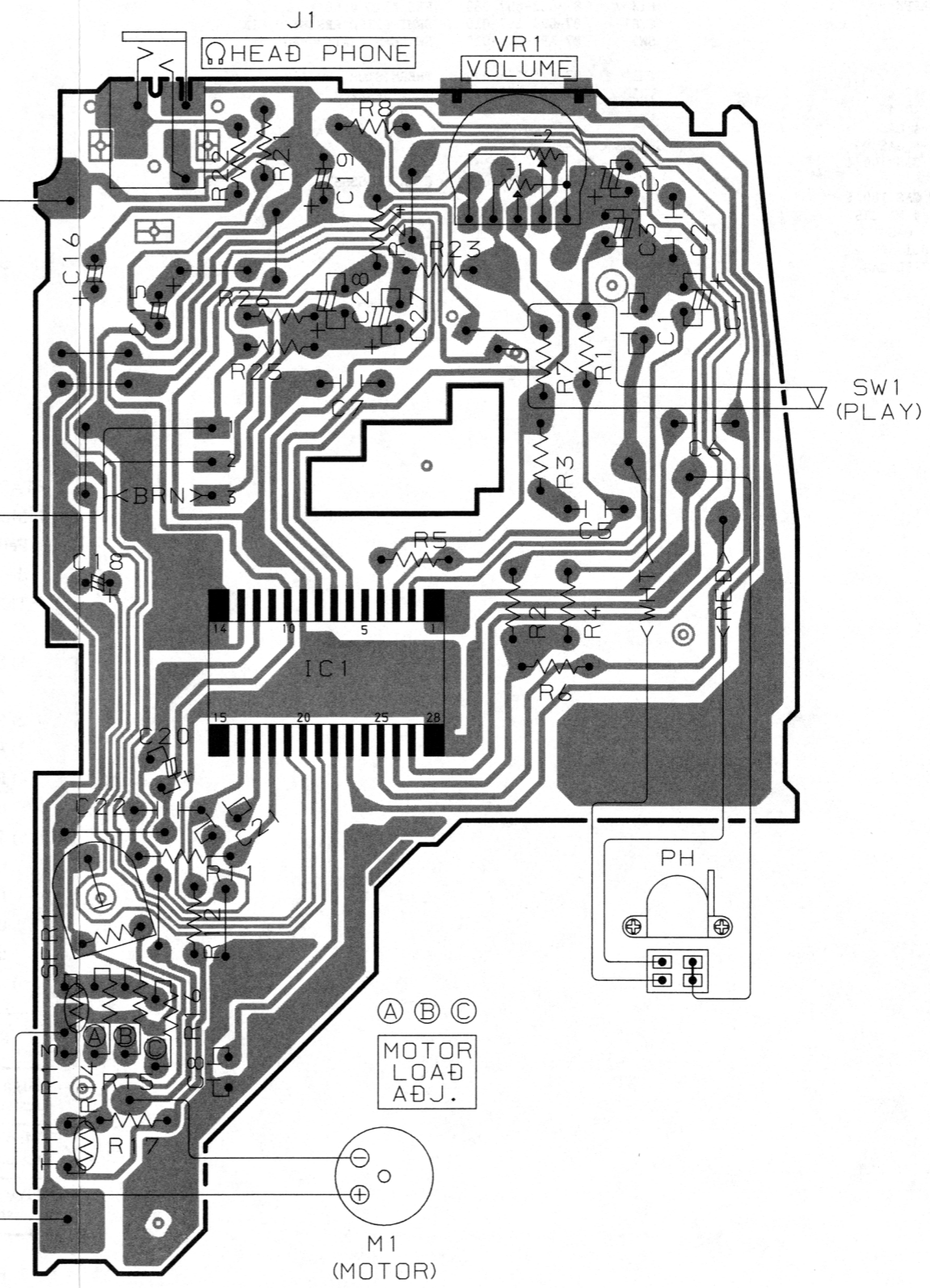
PRACTICAL SERVICE FIGURE

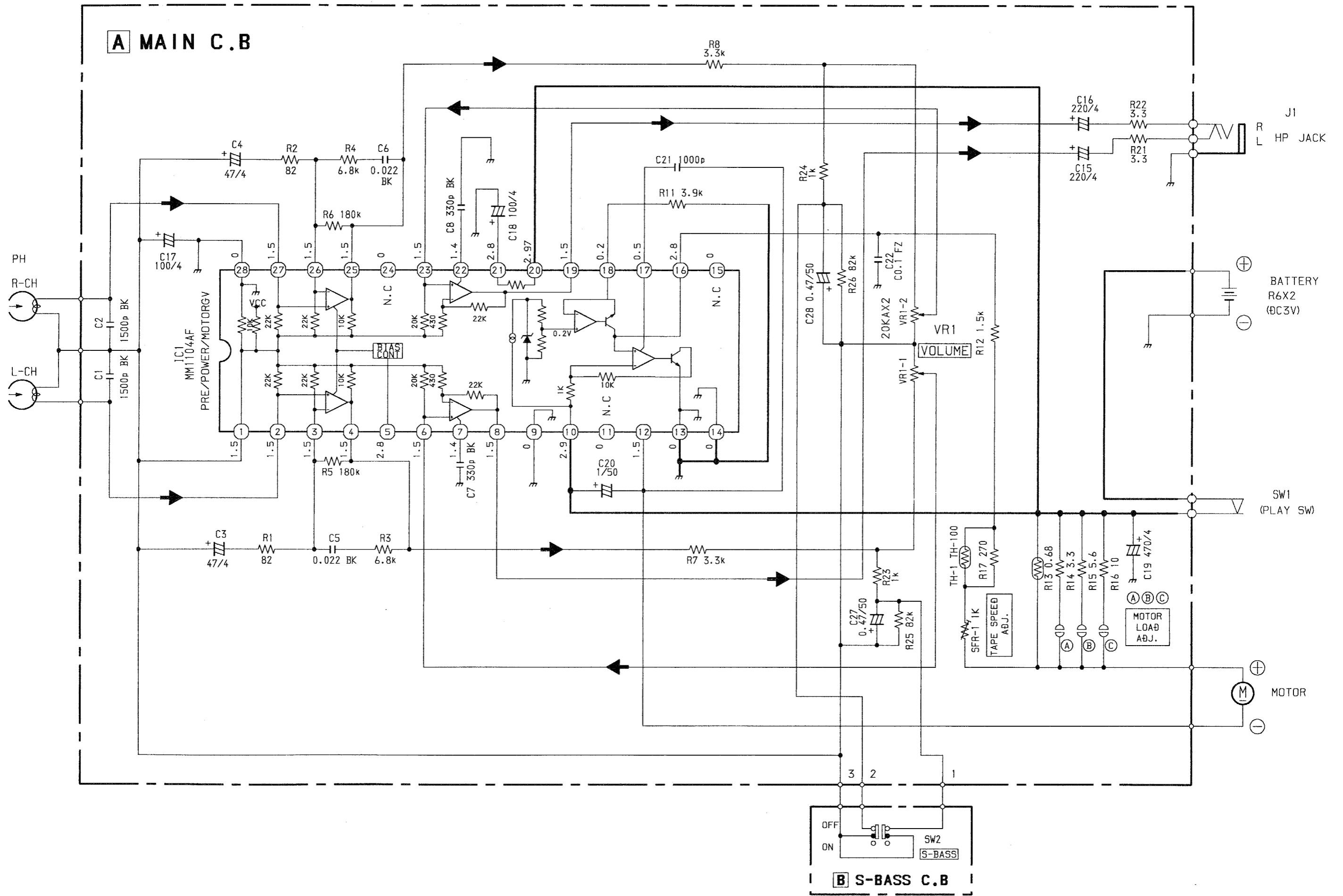
Tape speed : 3000Hz ± 60Hz
Wow & flutter : Less than 0.5 % (RMS)
Take - up torque : 35 ~ 50 g-cm
F. F torque : More than 36 g-cm
REW torque : 60 ~ 170 g-cm
Back tension : 1.5 ~ 4.5 g-cm
S/N ratio : More than 42 dB
Distortion : Less than 3.0 %
Noise level : Less than 5.0 mV
(Vol MAX)

A MAIN C.B

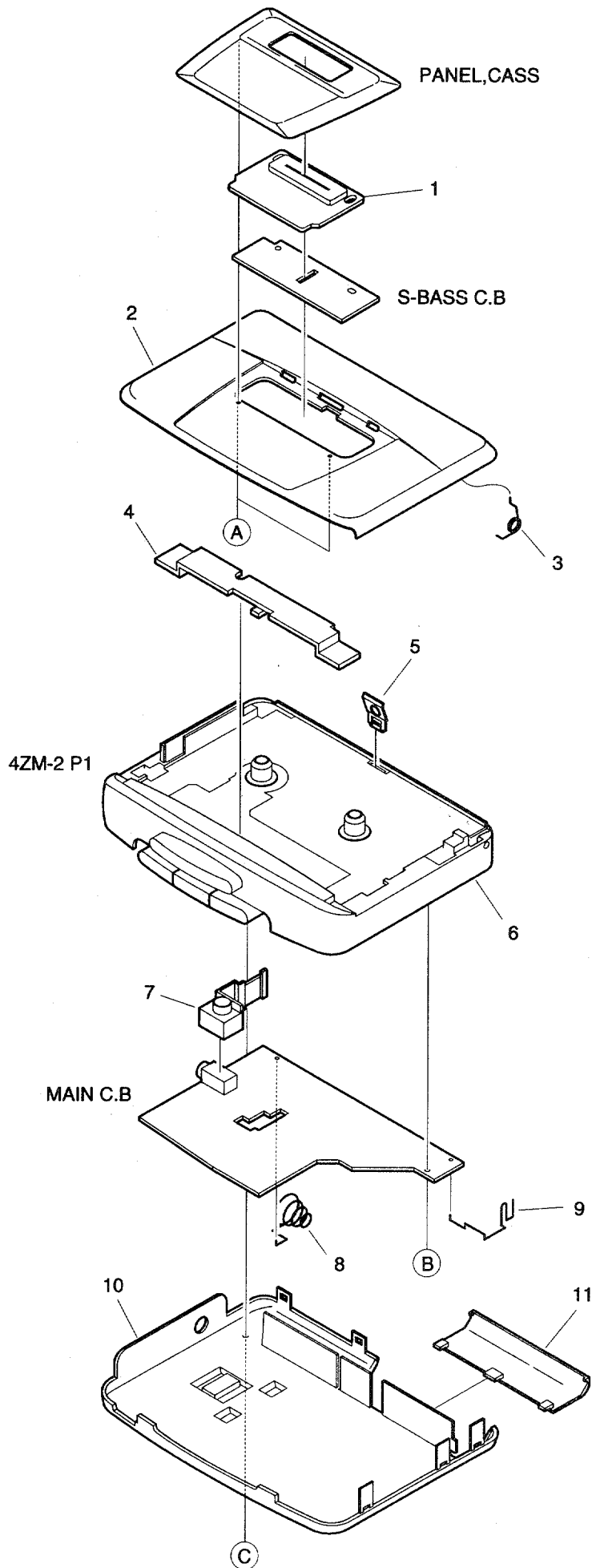


B S-BASS C.B





MECHANICAL EXPLODED VIEW 1/1

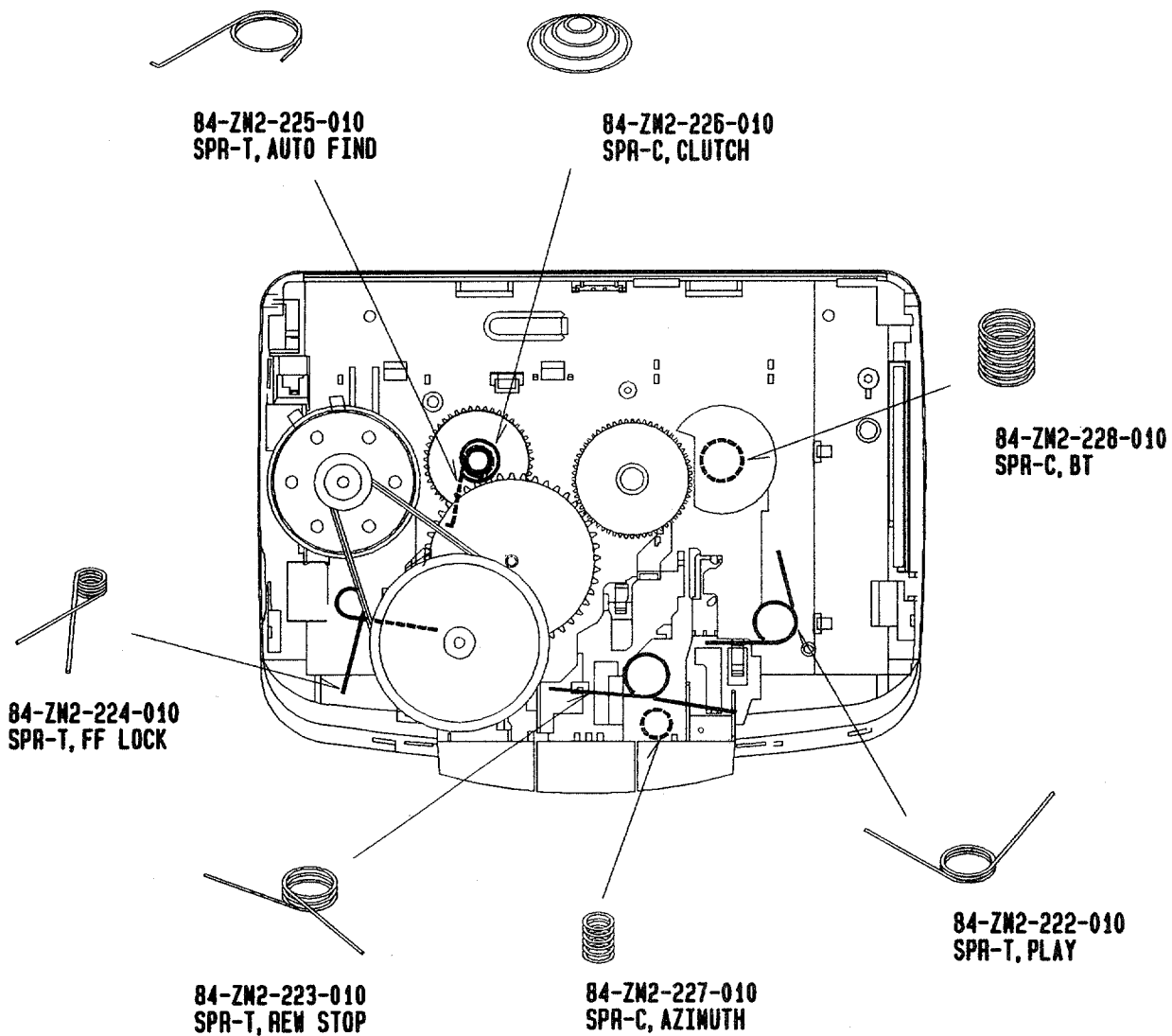


MECHANICAL PARTS LIST 1/1

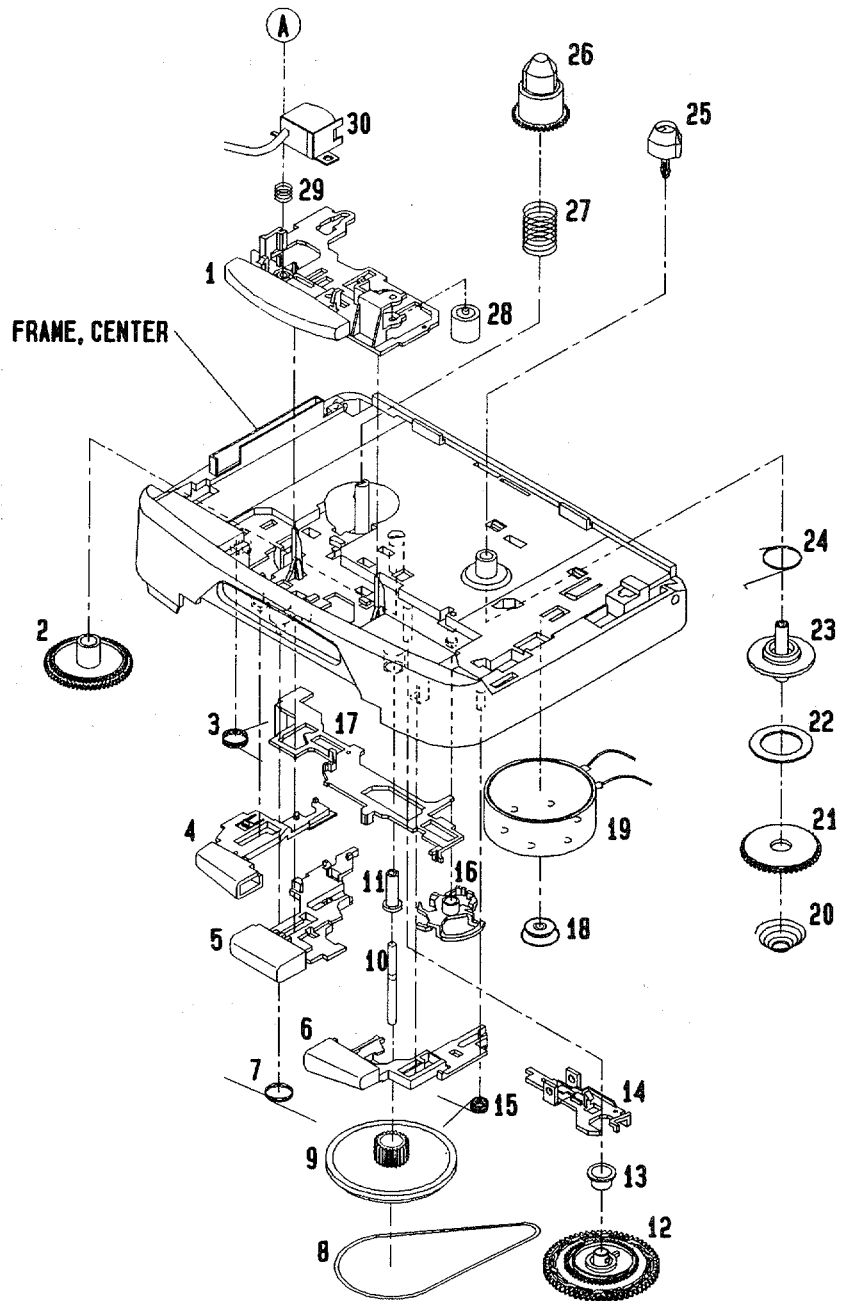
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 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-HKB-003-010		KNOB, SL S-BASS	10	87-HKB-005-010		CABI, REAR<[B]YU, [B]Y, [B]YZ>
2	87-HKB-001-010		LID, CASS<[B]YU, [B]Y, [B]YZ [B]YJ1>	10	87-HKB-010-010		CABI, REAR BLU<[L]Y, [L]YZ>
2	87-HKB-009-010		LID, CASS BLU<[L]Y, [L]YZ>	10	87-HKB-013-010		CABI, REAR C<[B]YJ1>
2	87-HKB-011-010		LID, CASS GRN<[G]Y>	10	87-HKB-012-010		CABI, REAR GRN<[G]Y>
2	87-HKB-006-010		LID, CASS RED<[R]YZ>	10	87-HKB-020-010		CABI, REAR SIL<[ST]YZ>
2	87-HKB-019-010		LID, CASS SIL<[ST]YZ>	11	87-HKA-005-010		LID, BAT<[B]YU, [B]Y, [B]YZ, [B]YJ1>
3	86-HRM-205-010		SPR-T, CLICK	11	87-HKA-030-010		LID, BAT BLU<[L]Y, [L]YZ>
4	86-HRM-206-010		PLATE, HEAD<[ST]YZ, [L]Y, [G]Y, [L]YZ [R]YZ>	11	87-HKA-031-010		LID, BAT GRN<[G]Y>
4	87-HRM-201-010		PLATE, HEAD GRAY<[B]YU, [B]Y, [B]YZ [B]YJ1>	11	87-HKB-008-010		LID, BAT RED<[R]YZ>
5	81-HK9-208-210		SPR-P, CASS A	11	87-HKB-022-010		LID, BAT SIL<[ST]YZ>
6	87-HKB-018-010		FRAME, CENTER BLK<[B]YU, [B]Y, [B]YZ [B]YJ1>	A	87-067-384-010		SCREWVT1.4-3.5HL
6	87-HKB-017-010		FRAME, CENTER GRY<[ST]YZ, [L]Y, [G]Y [L]YZ, [R]YZ>	B	87-264-525-310		SCREW, V+1.7-2.5
7	86-HKA-201-010		HLD, JACK	C	87-067-691-010		SCREW VT+1.7-6
8	86-HKA-203-010		BAT-CONTACT, (-)				
9	86-HKA-202-010		BAT-CONTACT, (+)				

SPRING APPLICATION POSITION



TAPE MECHANISM EXPLODED VIEW 1/1



TAPE MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZM2-002-01K		LEVER, PLAY	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-ZM2-005-01K		LEVER, STOP	24	84-ZM2-225-010		SPR-T, AUTO FIND
5	84-ZM2-004-01K		LEVER, REW	25	84-ZM2-216-01K		REEL TABLE, R
6	84-ZM2-003-01K		LEVER, FF	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-ZM2-214-01K		FLY-WHL, P	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				

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
TRIMMER	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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