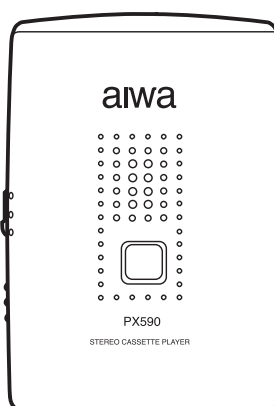




HS-PX590 [L] AH

HS-PX997 AE



SERVICE MANUAL

STEREO CASSETTE PLAYER

BASIC TAPE MECHANISM : 7ZM-1 P1

aiwa
S/M Code No. 09-996-405-2R3

REVISION

SPECIFICATIONS

Maximum output:	4 mW + 4 mW (EIAJ/32Ω) <LAH> 4 mW + 4 mW (EIAJ/32Ω) <AE>
Load impedance:	16 – 32 ohms
Power sources:	DC 1.2 V using supplied rechargeable battery NB-5G, DC 1.5 V using an R6 (AA) dry cell battery, AC house current using the optional AC adaptor
Maximum dimensions:	80 (W) x 112.9 (H) x 18.9 (D) mm ($3\frac{1}{4}$ x $4\frac{1}{2}$ x $\frac{3}{4}$ in.)
Weight	Approx. 158 g, (5.5 oz) (including the rechargeable battery, excluding the battery case)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
“DOLBY” and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

ELECTRICAL MAIN PARTS LIST

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
IC	87-A21-179-010	C-IC,TA2123AF	
	87-A21-061-010	C-IC,ML63512-120	
	87-A21-050-040	C-IC,S-80810ANNP-E70-T2	
	87-A20-603-140	C-IC,RN5RK241A	
	87-A20-961-040	C-IC,MM1279XV	
	87-A20-818-040	C-IC,NJM2185AV<AE>	
TRANSISTOR	89-113-625-080	TR,2SA1362GR	
	87-026-535-080	C-TR,RN4907	
	87-026-418-080	TR,RN1311	
	89-342-132-080	TR,2SC4213B	
	87-026-417-080	TR,RN1310	
	89-341-165-080	C-TR,2SC4116GR	
	87-026-481-080	C-TR,RN4607<AE>	
DIODE	87-001-553-080	C-DIODE 1SS322	
MAIN C.B	C101	87-012-273-080	C-CAP,U 820P-50 B
	C102	87-012-273-080	C-CAP,U 820P-50 B
	C103	87-012-273-080	C-CAP,U 820P-50 B
	C104	87-012-273-080	C-CAP,U 820P-50 B
	C105	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C106	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C107	87-016-114-080	C-CAP,U0.01-25B
	C108	87-016-114-080	C-CAP,U0.01-25B
	C109	87-010-828-080	CHIP CAPACITOR,U 0.033-
	C110	87-010-828-080	CHIP CAPACITOR,U 0.033-
	C111	87-A10-025-080	C-CAP,U 0.22-16Z F
	C112	87-A10-031-080	C-CAP,U 0.01-25 KB
	C113	87-A10-263-080	C-CAP,U 0.1-16ZF
	C114	87-A11-056-080	C-CAP,U 1-10 Z F
	C115	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C116	87-A11-244-080	C-CAP,TN 47-4 A MCM
	C117	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C118	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C119	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C120	87-A10-704-080	C-CAP,TN 100-2.5 M B2
	C121	87-A10-704-080	C-CAP,TN 100-2.5 M B2
	C122	87-010-424-080	CAPACTOR,TANTAL 4.7-4
	C123	87-A11-063-080	C-CAP,S 4.7-10 Z F
	C124	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C125	87-A10-263-080	C-CAP,U 0.1-16ZF
	C126	87-A10-263-080	C-CAP,U 0.1-16ZF
	C127	87-A10-031-080	C-CAP,U 0.01-25 KB
	C128	87-A10-031-080	C-CAP,U 0.01-25 KB
	C129	87-016-462-080	C-CAP,S 1-16 F
	C130	87-016-462-080	C-CAP,S 1-16 F
	C131	87-012-274-080	CHIP CAP,U 1000P-50B
	C132	87-012-274-080	CHIP CAP,U 1000P-50B
	C133	87-A10-025-080	C-CAP,U 0.22-16Z F
	C134	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C135	87-A11-056-080	C-CAP,U 1-10 Z F
	C136	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C137	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C138	87-A11-063-080	C-CAP,S 4.7-10 Z F
	C139	87-A10-025-080	C-CAP,U 0.22-16Z F
	C140	87-A11-062-080	C-CAP,S 2.2-16 Z F
	C141	87-A11-063-080	C-CAP,S 4.7-10 Z F
	C142	87-016-317-080	C-CAP,TN 2.2-6.3
	C143	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C151	87-016-462-080	C-CAP,S 1-16 ZF<AE>
	C152	87-016-462-080	C-CAP,S 1-16 ZF<AE>
	C153	87-012-274-080	C-CAP,U 1000P-50 KB<AE>
	C154	87-010-746-080	C-CAP,TN 10-4 M 125<AE>
	C155	87-016-526-080	C-CAP,S 0.47-16 BK<AE>
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	C158	87-016-460-080	C-CAP,S 0.22-16 KB<AE>
	C159	87-010-746-080	C-CAP,TN 10-4 M 125<AE>
	C160	87-016-462-080	C-CAP,S 1-16 F<AE>
	C161	87-016-462-080	C-CAP,S 1-16 F<AE>
	C201	87-016-462-080	C-CAP,S 1-16 Z F
	C202	87-010-505-080	CAP,CHIP TANTALUM 1-16
	C203	87-A10-263-080	C-CAP,U 0.1-16ZF
	C204	87-A10-263-080	C-CAP,U 0.1-16ZF
	C205	87-A11-056-080	C-CAP,U 1-10 Z F
	C206	87-A11-056-080	C-CAP,U 1-10 Z F
	C207	87-A10-263-080	C-CAP,U 0.1-16ZF
	C208	87-A10-263-080	C-CAP,U 0.1-16ZF
	C209	87-010-787-080	CAP, U 0.022-25
	C210	87-A10-263-080	C-CAP,U 0.1-16 Z F
	C211	87-012-276-080	CHIP CAP,U 1500P-50B<AH>
	C211	87-012-270-080	CHIP CAP,U 470P-50B<AE>
	C212	87-012-276-080	CHIP CAP,U 1500P-50B<AH>
	C212	87-012-270-080	CHIP CAP,U 470P-50B<AE>
	C214	87-012-274-080	CHIP CAP,U 1000P-50B
	C215	87-A10-263-080	C-CAP,U 0.1-16 Z F
	C216	87-A10-263-080	C-CAP,U 0.1-16 Z F
	C251	87-016-462-080	C-CAP,S 1-16 F
	C252	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C253	87-A10-263-080	C-CAP,U 0.1-16 Z F
	C254	87-A10-953-080	C-CAP,TN 47-4 M B2 MCM
	C255	87-A10-034-080	C-CAP,TN 33-10 (B2)
	C256	87-A10-263-080	C-CAP,U 0.1-16ZF
	C257	87-A10-952-080	C-CAP,TN 22-4 M A MCM
	C261	87-A11-062-080	C-CAP,S 2.2-16 ZF
	C271	87-A11-062-080	C-CAP,S 2.2-16 ZF
	C301	87-A10-031-080	C-CAP,U 0.01-25 KB
	C302	87-A10-260-080	C-CAP,U 0.1-16 K B
	C303	87-A11-063-080	C-CAP,S 4.7-10 Z F
	C304	87-A10-263-080	C-CAP,U 0.1-16ZF
	C305	87-A10-707-080	C-CAP,U 0.47-10 ZF
	C306	87-A10-707-080	C-CAP,U 0.47U-16 F Z
	C307	87-A10-031-080	C-CAP,U 0.01-25 KB
	C308	87-A10-031-080	C-CAP,U 0.01-25 KB
	C309	87-A10-031-080	C-CAP,U 0.01-25 KB
	D201	87-A90-278-080	C-LED,SML-210VT RED
	J101	85-HK3-605-010	JACK,DIA3.5 ST 5P
	JR159	87-016-462-080	C-CAP,S 1-16 F Z<AH>
	JR160	87-016-462-080	C-CAP,S 1-16 F Z<AH>
	L200	87-003-375-080	C-COIL,1608 10UH K MLF1608
	L251	87-A50-352-080	C-COIL, 100UH NP 05DB101M
	PS261	87-A91-374-080	C-SNSR,PHOTO, NJL5194KN
	PS271	87-A91-374-080	C-SNSR,PHOTO, NJL5194KN
	R103	87-022-279-080	CHIP RES,U 470-1/16W F<AE>
	R104	87-022-279-080	CHIP RES,U 470-1/16W F<AE>
	R105	87-022-215-080	CHIP RES,U 1K-1/16W F<AE>
	R106	87-022-215-080	CHIP RES,U 1K-1/16W F<AE>
	R107	87-022-243-080	CHIP RES,U 15K-1/16W F
	R108	87-022-243-080	CHIP RES,U 15K-1/16W F
	R109	87-022-292-080	CHIP RES U 330K-1/16W F
	R110	87-022-292-080	CHIP RES U 330K-1/16W F
	R151	87-022-252-080	CHIP RES,U 36K-1/16W F<AE>
	R214	87-022-243-080	CHIP RES,U 15K-1/16W F
	R215	87-022-243-080	CHIP RES,U 15K-1/16W F
	S101	8Z-HK4-606-010	SW,LEAF 7ZM-1
	S201	87-A90-330-080	C-SW,SL 1-1-2 SSSS81
	S202	87-A90-330-080	C-SW,SL 1-1-2 SSSS81
	S203	87-A90-665-180	C-SW,TACT LS7A2M
	S204	87-A90-665-180	C-SW,TACT LS7A2M
	S205	87-A90-665-180	C-SW,TACT LS7A2M
	S206	87-A90-665-180	C-SW,TACT LS7A2M
	S207	87-036-237-080	CHIP SWICH PUSH
	S208	87-036-237-080	CHIP SWICH PUSH
	S209	8Z-HK4-607-010	SW,LID 7ZM-1
	SFR301	87-A91-092-080	C-SFR,68K RH03APA

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
TH301	87-A91-190-080	C-THMS,10K (2125)NSF2103J	
VR101	87-024-686-080	C-VR,20KAX2 DIA14	
X201	87-A70-151-110	VIB,XTAL 32.768KHZ VT-	

HEAD FLEX C.B

PH1	87-ZM1-601-010	HEAD ASSY, 7ZM-1
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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

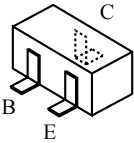
Chip Resistor Part Coding



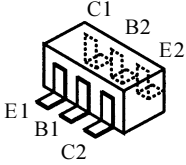
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
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

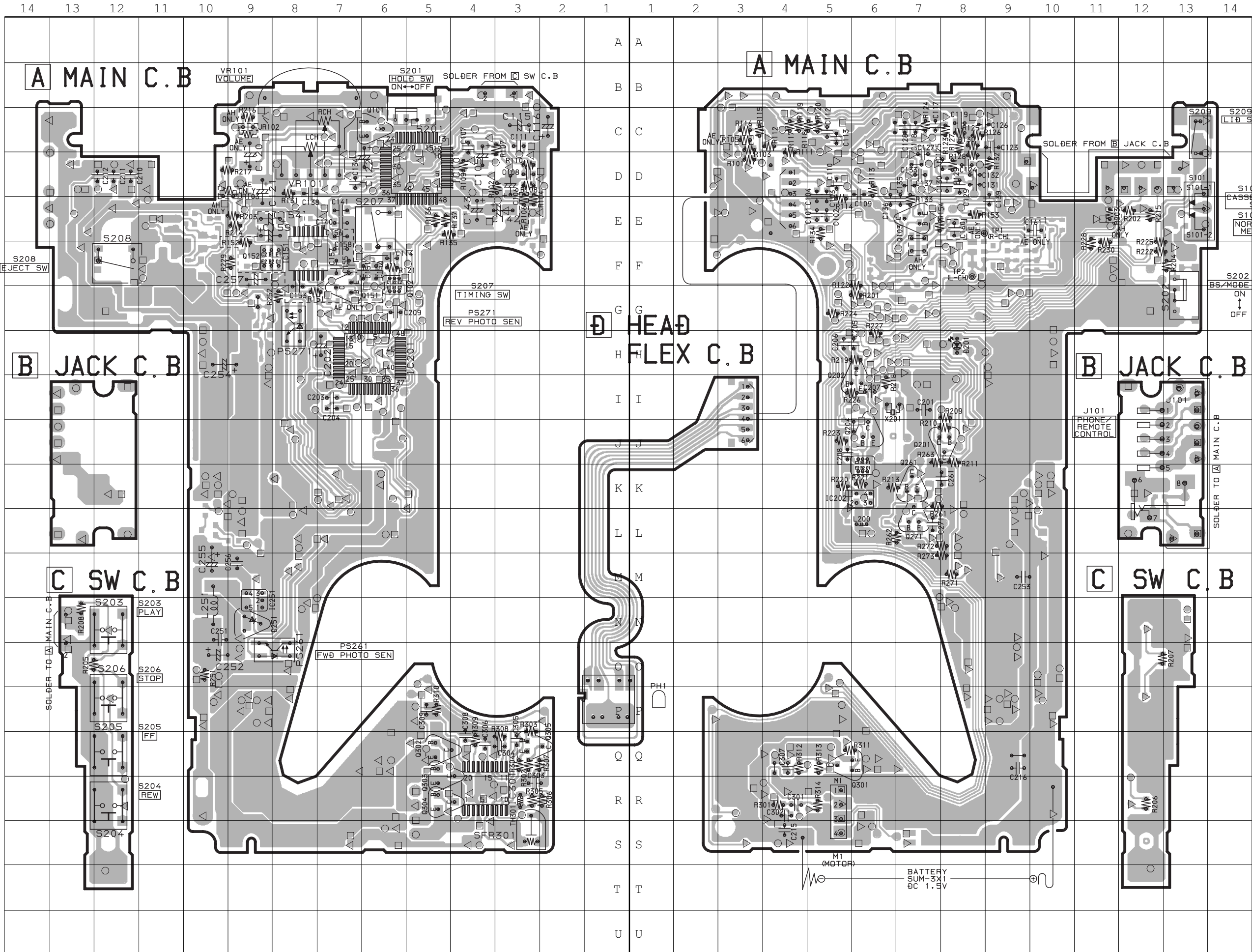
TRANSISTOR ILLUSTRATION



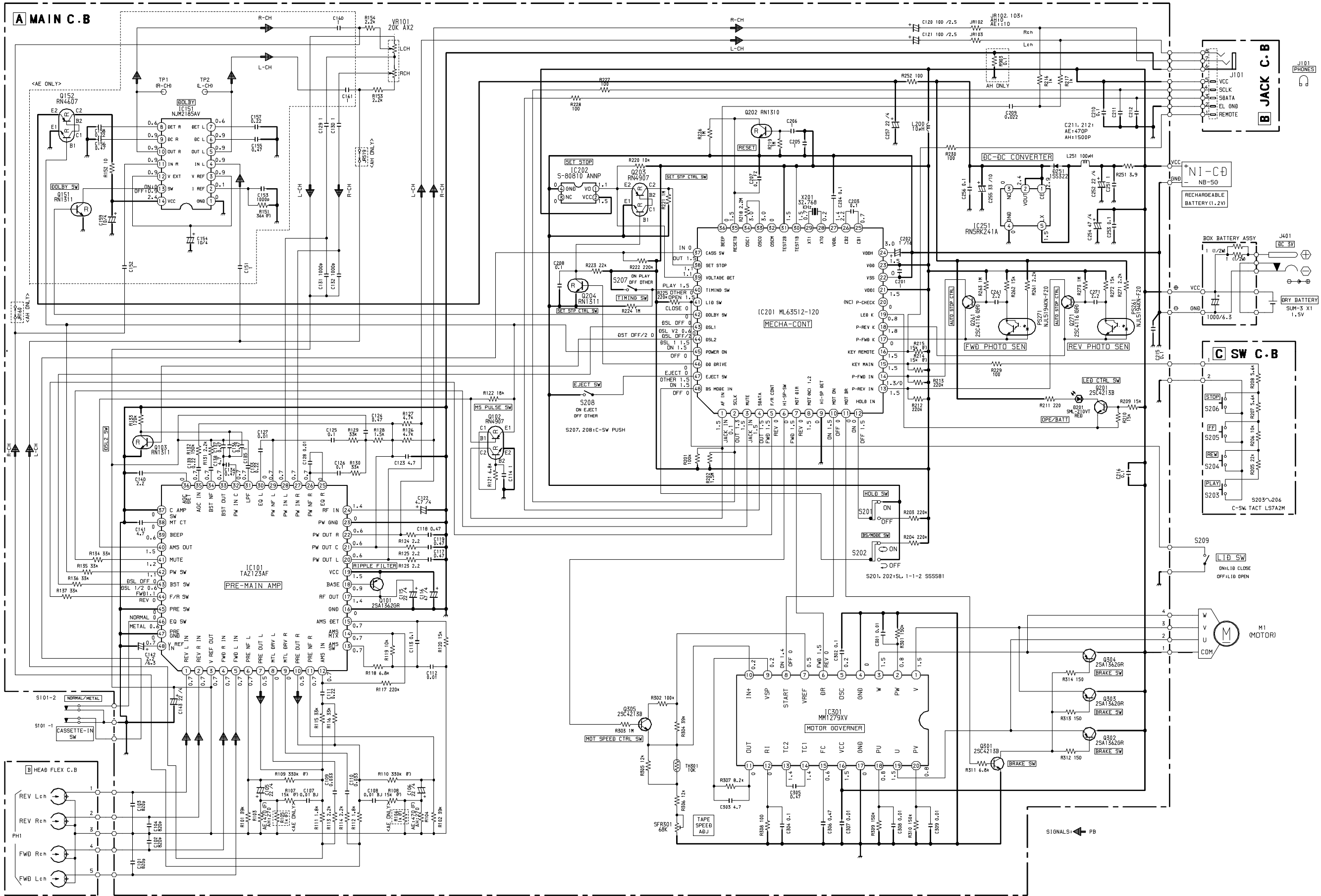
RN1310
RN1311
2SC4213B
2SC4116GR
2SA1362GR



RN4907
RN4607



SCHEMATIC DIAGRAM



IC DESCRIPTION

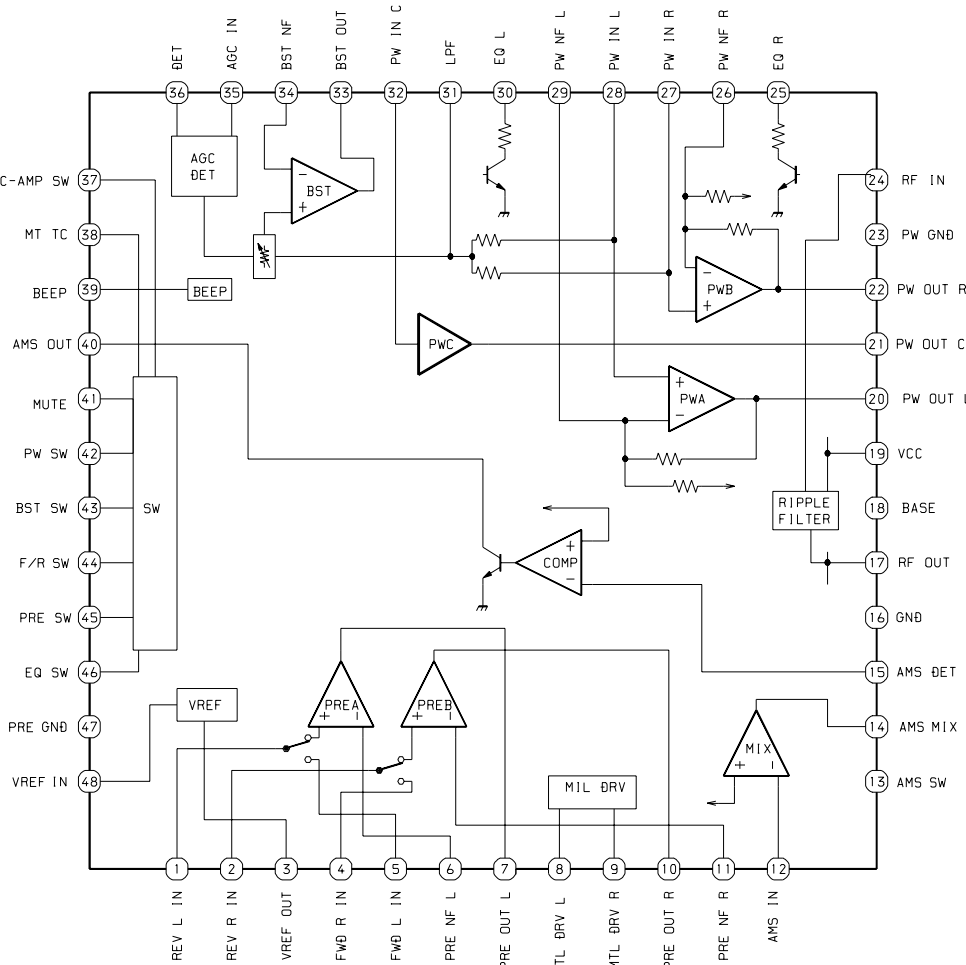
IC,ML63512-120

Pin No.	PinName	I/O	Description
1	AF IN	I	‘H’: Exist music, ‘L’: Not exist music.
2	SCLK	I	Serial clock input terminal.
3	MUTE	O	‘H’: MUTE OFF, ‘L’: MUTE ON.
4	SDATA	O	Serial data output terminal.
5	F/R CONT	O	‘H’: FWD direction, ‘L’: REV direction.
6	HI-SP-SW	O	‘H’: Motor HI speed.
7	MOT DIR	O	‘H’: Motor counterclockwise (FWD), ‘L’: Motor clockwise (REV).
8	MOTOR 1. 2(NC)	O	Motor normal speed. (Not connected)
9	HI-SP DET	I	‘H’: No exist DD drive output, ‘L’: Exist DD drive output.
10	MOT ON	O	‘H’: Motor ON, ‘L’: Motor OFF.
11	MOT BR	O	‘H’: Motor brake ON, ‘L’: Motor brake OFF.
12	HOLD IN	I	‘H’: Hold OFF, ‘L’: Hold ON.
13	P-REV IN	I	Photo sensor input terminal (REV side).
14	P-FWD IN	I	Photo sensor input terminal (FWD side).
15	KEY MAIN	I	Key input terminal (Main unit).
16	KEY REMOTE	I	Key input terminal (Remote controller).
17	P-FWD K	O	Output for photo sensor control (FWD side).
18	P-REV K	O	Output for photo sensor control (REV side).
19	LED K	O	OPE battery LED control output.
20	P-CHECK (NC)	O	Photo sensor puls checking output. (Not connected)
21	VDDI	-	Interface power supply terminal for external equipment.
22	VSS	-	Negative power supply terminal.
23	VDD	-	Positive power supply terminal.
24	VDDH	-	Boost power supply for backup.
25 ~ 26	CB1 ~ CB2	-	Connected to power supply booster capacitor.
27	VDDL	-	Positive power supply for internal logic circuit.
28 ~ 29	XT0 ~ XT1	-	Clock oscilktor terminals (Low speed side). Connected to 32.768 kHz crystal oscillator.
30 ~ 31	TEST1B ~ TEST2B	-	Test terminals.
32	OSCM	-	Connected to capacitor for high speed clock.
33 ~ 34	OSC0 ~ OSC1	-	Clock oscilktor terminals (high speed side).
35	RESETB	I	Reset input.
36	BEEP	O	Alarm sound output.
37	CASS SW	I	‘H’: Exist cassette, ‘L’: Not exist cassette.
38	SET STOP	I	‘H’: Normal operation, ‘L’: Mechanism stop.
39	VOLTAGE DET	I	Input terminal for control motor speed.
40	TIMING SW	I	Input terminal for detect mechanism operation.
41	LID SW	I	‘H’: Cassette case OPEN, ‘L’: Cassette case CLOSE.
42	DOLBY SW	I	‘H’: Dolby ON, ‘L’: Dolby OFF.
43	DSL1	O	Output: DSL1 OFF, Stop: DSL1 ON.
44	DSL2/EGS	O	‘H’: DSL2/EGS OFF, ‘L’: DSL2/EGS ON.

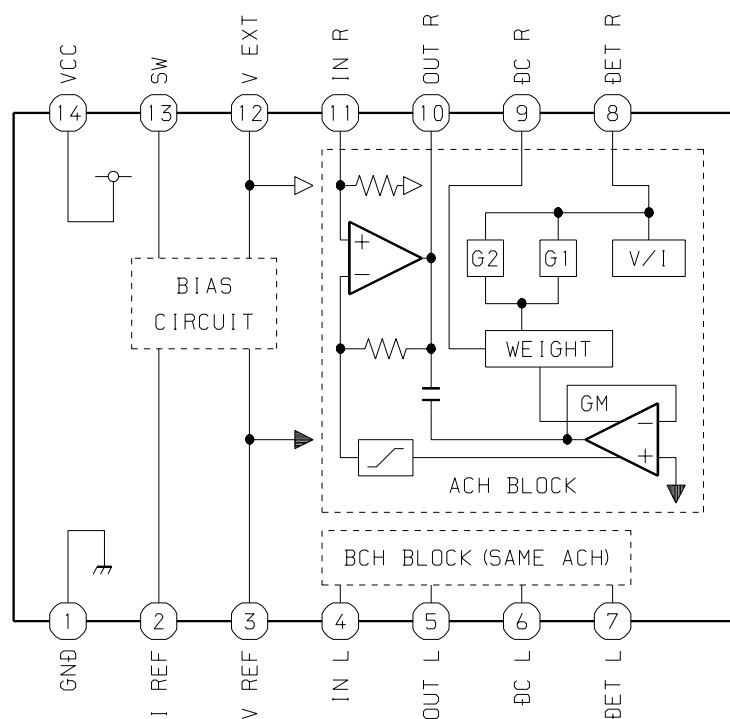
Pin No.	Pin Name	I/O	Description
45	POWER ON	O	"H" : Power ON, "L" : Power OFF.
46	DD DRIVE	O	Output terminal for control DC-DC converter.
47	EJECT SW	I	Input terminal for detect EJECT operation. "L" : Wait.
48	BS / MODE IN	I	"H" : Continuous playback / BS enable, "L" : Auto reverse playback / BS disable.

IC BLOCK DIAGRAM

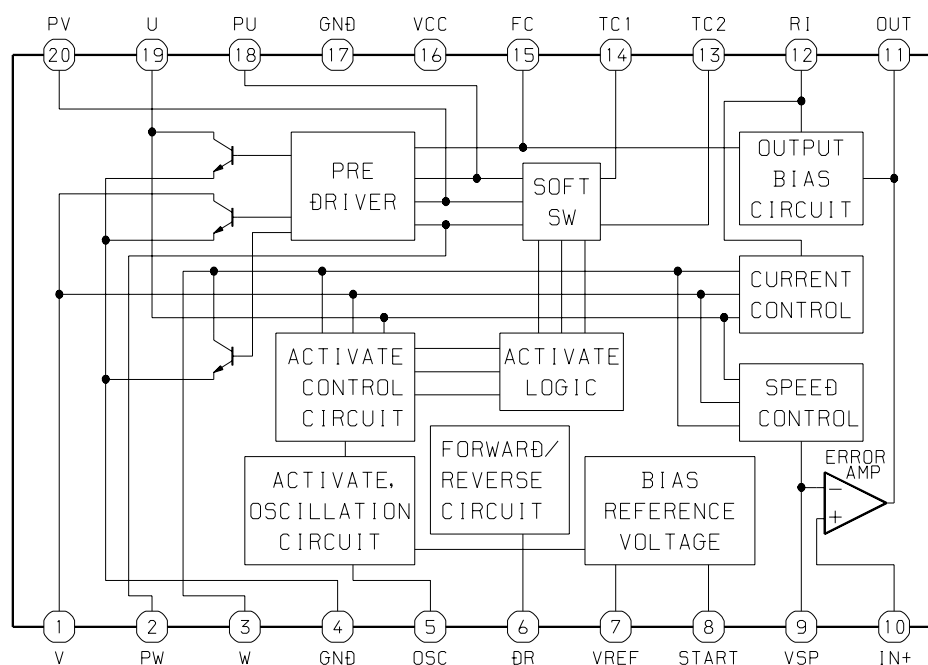
IC, TA2123AF



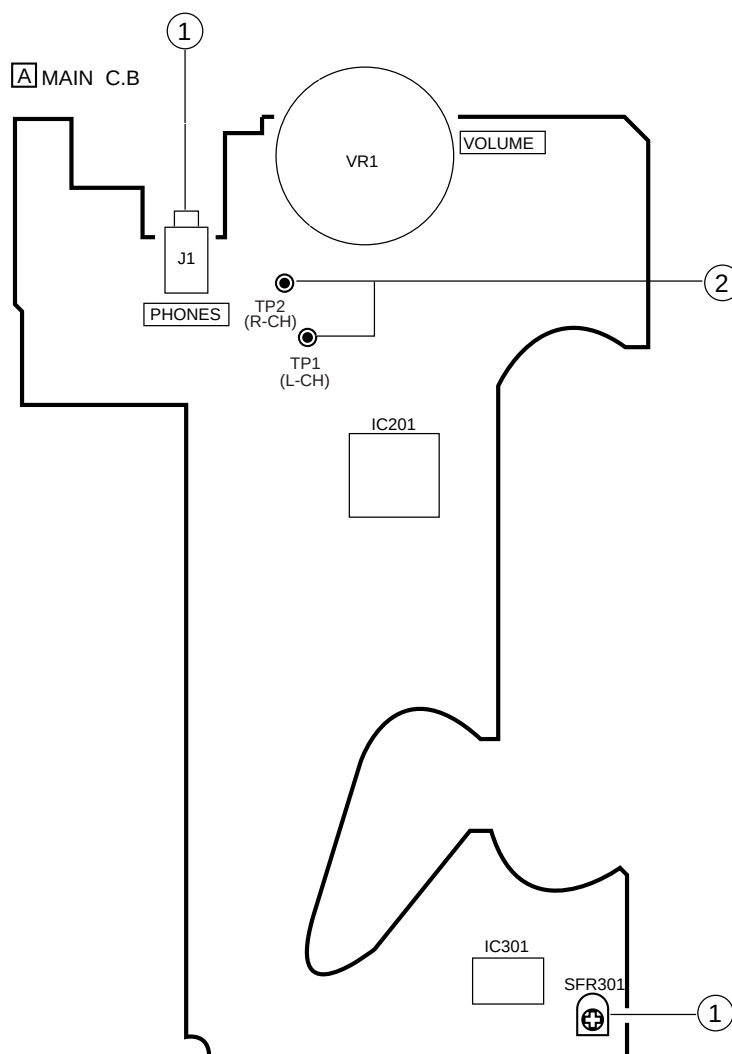
IC, NJM2185AV



IC, MM1279XV



ADJUSTMENT



<TAPE PLAYER SECTION>

1. Tape Speed Adjustment

- Settings:
- Test tape : TTA-100 (Tape center)
 - Test point : PHONES (J101)
 - Adjustment location : SFR301
 - MSP : CLASSIC
 - TAPE SELECTOR : NORM
 - VOLUME : MAX
- Method : Play back (FWD) the test tape and adjust SFR301 so that the frequency becomes $3015\text{Hz} \pm 10\text{Hz}$. Then confirm WOW is less than 0.50%.

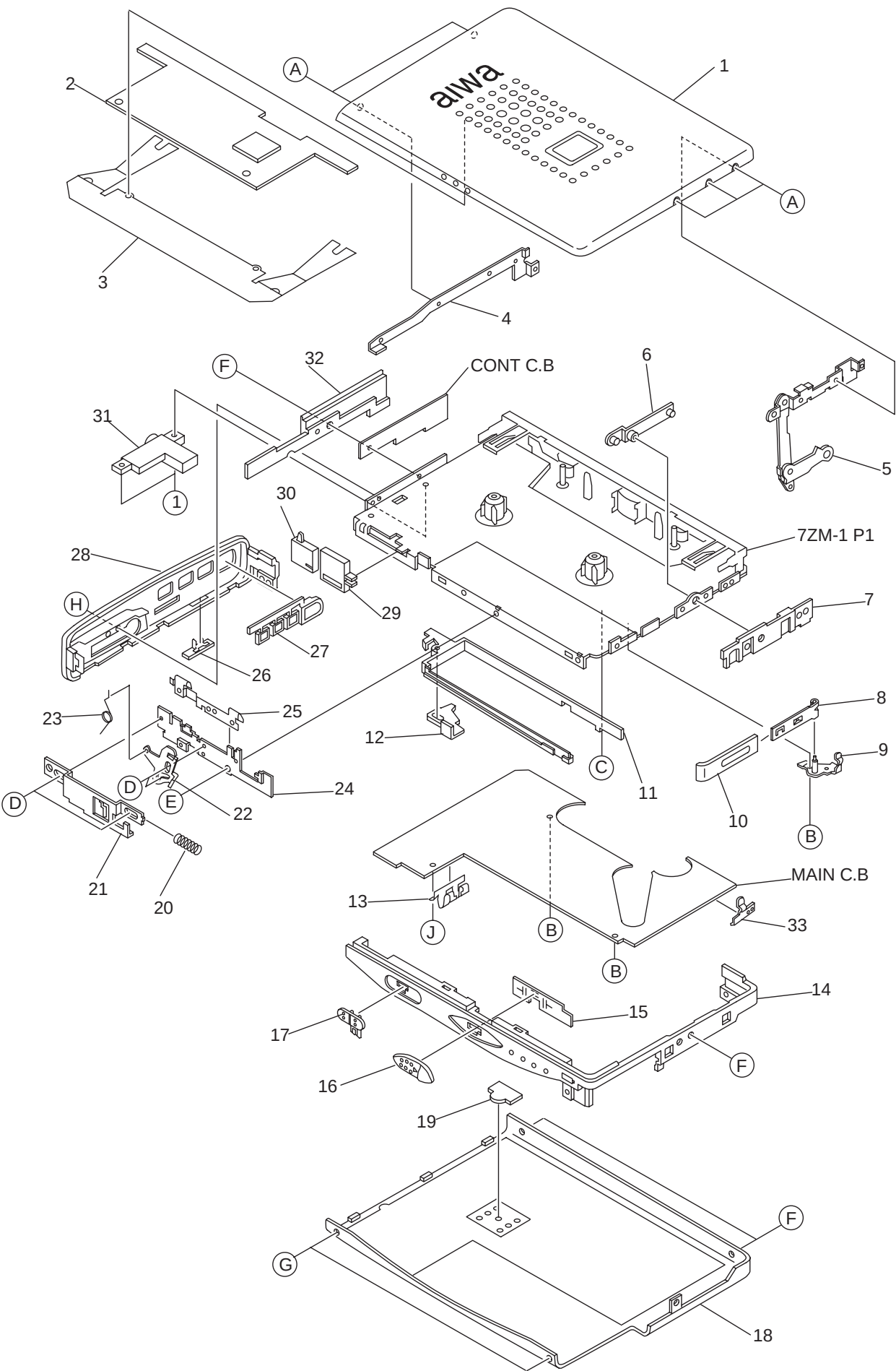
2. Dolby level check

- Settings:
- Test tape : TTA-200
 - Test point : Dolby test point TP1(L-CH) TP2(R-CH)
 - DOLBY SW : OFF
 - DSL : OFF
 - TAPE SELECTOR : NORM(auto)
 - VOLUME : MIN
- Method : Connected an electrolytic capacitor (10uF/16V) to measured equipment and TP1, check the voltage for $32 \pm 1.0\text{dB}$.

PRACTICAL SERVICE FIGURE

<TAPE SECTION>

- Tape speed : $3015\text{Hz} \pm 50\text{Hz}$
- Wow : Less than 0.5% (RMS)
- Take-up torque : $13 \sim 22\text{g-cm}$ (FWD)
- F.F torque : $45 \sim 80\text{g-cm}$
- REW torque : $45 \sim 80\text{g-cm}$
- Back tension : $1.0 \sim 2.5\text{g-cm}$ (FWD)
- S/N ratio : More than 45dB (PB, DC)
- Distortion : Less than 3.0% (PB, DC)
- Noise level : Less than 3.0mV (Vol MAX, PB, DC)
- Less than 0.3mV (Vol MIN, PB, DC)
- Frequency response : $63\text{Hz} + 4 / - 4\text{dB} \sim 8\text{kHz} + 4 / - 4\text{dB}$ (NORMAL)
- $63\text{Hz} + 4 / - 4\text{dB} \sim 10\text{kHz} + 4 / - 6\text{dB}$ (CrO2)
- Test tape : TTA - 100
- TTA - 200
- TTA - 320(NORMAL)
- TTA - 310(CrO2)

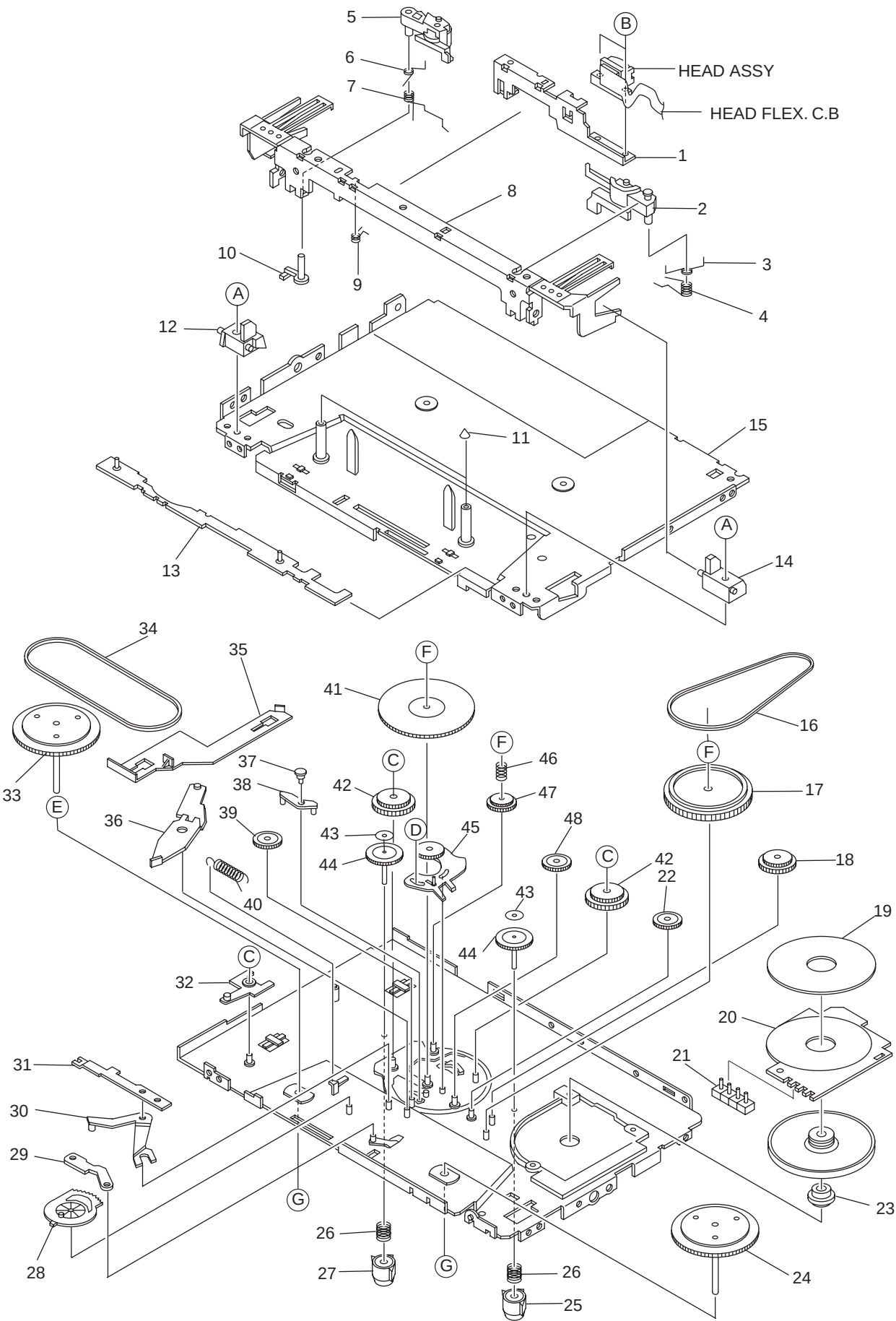


REF.NO.	PART.NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART.NO.	KANRI NO.	DESCRIPTION
1	8Z-HK4-023-010		LID,CASS BLU ASSY<[L]AH>	22	8Z-HK4-218-010		PLATE,LOCK
1	8Z-HK4-027-010		LID,CASS SIL ASSY 997<AE>	23	8Z-HK4-219-010		SPR-T,LOCK
2	8Z-HK4-006-010		WINDOW,CASS	24	8Z-HK4-216-010		BASE,LOCK
3	8Z-HK4-228-010		SPR-P,LID	25	8Z-HK4-221-010		SPR-P,CASS
4	8Z-HK4-205-010		HLDR,LID	26	8Z-HK4-016-010		KNOB,SL HOLD BLU
5	8Z-HK4-206-010		HLDR,ARM ASSY	27	8Z-HK4-008-010		KEY,CONT
6	8Z-HK4-210-010		NUT, B-BOX	28	8Z-HK4-014-010		FRAME,CONT BLU<[L]AH>
7	8Z-HK4-204-110		HLDR,CONT	28	8Z-HK4-031-010		FRAME,CONT D-BLU<AE>
8	8Z-HK4-212-010		BAT-CONTACT, (+)	29	8Z-HK4-606-010		SW,LEAF 7ZM-1
9	8Z-HK4-229-010		SHAFT,ASSY	30	8Z-HK4-607-010		SW,LID 7ZM-1
10	8Z-HK4-007-110		LID,BAT<AE>	31	85-HK3-605-010		JACK,DIA3.5 ST 5P
10	8Z-HK4-026-110		LID,BAT BLU<[L]AH>	32	8Z-HK4-203-010		HLDR,PWB
11	8Z-HK4-201-010		HLDR,BAT	33	8Z-HK4-232-010		BAT-CONTACT,BOX(-) S
12	8Z-HK4-215-010		LEVER,EJECT	A	87-HK5-237-010		S-SCREW,1.4-2 CR NL
13	8Z-HK4-211-010		BAT-CONTACT, (-)	B	87-067-732-010		TAPPING SCREW, VT1.4-3
14	8Z-HK4-015-010		FRAME,CTR BLU<[L]AH>	C	87-067-511-010		SCREW,V+1.4-2 BK
14	8Z-HK4-032-010		FRAME,CTR D-BLU<AE>	D	87-078-206-010		S-SCRW,1.4-0.6 B NL
15	8Z-HK4-225-010		PLATE,KNOB	E	87-078-183-010		SCRW-SR,1.4-1.4 BL
16	8Z-HK4-011-010		KNOB,SL OPEN	F	85-HK3-241-010		SCRW-SR,1.4-3CR L
17	8Z-HK4-017-010		KNOB,SL BLS BLU	G	8Z-HK4-231-010		S-SCREW,SERR+1.4-5.0 SWCH/CR
18	8Z-HK4-025-010		CABI,REAR BLU<[L]AH>	H	87-067-429-010		SCREW1.4-2.5
18	8Z-HK4-029-010		CABI,REAR SIL DOLBY<AE>	I	87-067-480-010		SPECIAL SCREW +1.4-3
19	8Z-HK4-012-010		LENS,LED	J	8Z-HK4-227-010		S-SCREW,SERR+1.4-4.8 SWCH/CR
20	8Z-HK4-230-010		SPR-C, OPEN				
21	8Z-HK4-217-010		PLATE,OPEN				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW



TAPE MECHANISM PARTS LIST 1/1

REF.NO.	PART.NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART.NO.	KANRI NO.	DESCRIPTION
1	87-ZM1-230-010		HLDR, HEAD	31	87-ZM1-265-010		HLDR, CAM
2	87-ZM1-254-010		ARM ASSY, PINCH R	32	87-ZM1-261-010		LEVER, SW
3	87-ZM1-287-010		SPR-T, PINCH BACK R	33	87-ZM1-250-010		FLY-WHL ASSY, R
4	87-ZM1-285-010		SPR-T, PINCH R	34	87-ZM1-272-010		BELT, FLY-WHL
5	87-ZM1-252-010		ARM ASSY, PINCH L	35	87-ZM1-260-010		LEVER, DIR OFF
6	87-ZM1-286-010		SPR-T, PINCH BACK L	36	87-ZM1-231-010		LEVER, CAM CONNECT
7	87-ZM1-284-010		SPR-T, PINCH L	37	87-ZM1-207-010		SHAFT, CONTROL
8	87-ZM1-225-010		HLDR ASSY, CASSET	38	87-ZM1-262-010		LEVER, FR CONTROL
9	87-ZM1-275-010		SPR-T, HEAD BACK	39	87-ZM1-246-010		GEAR, CAM C
10	87-ZM1-269-010		SHAFT, PINCH	40	87-ZM1-282-010		SPR-E, CAM
11	87-ZM1-267-010		CAP, CAPSTAN	41	87-ZM1-237-010		GEAR ASSY, SLIP
12	87-ZM1-263-010		HLDR, CASSET HLD L	42	87-ZM1-241-010		GEAR, IDL A
13	87-ZM1-221-010		LEVER ASSY, DIR	43	87-ZM1-290-010		SH, AUTO 7ZM-1
14	87-ZM1-264-010		HLDR, CASSET HLD R	44	87-ZM1-236-010		GEAR, REEL
15	87-ZM1-201-010		CHAS ASSY, OUT-SERT P	45	87-ZM1-217-010		LEVER ASSY, T-UP
16	87-ZM1-271-010		BELT, MOT	46	87-ZM1-281-010		SPR-C, FR
17	87-ZM1-234-010		GEAR, PULLY	47	87-ZM1-245-010		GEAR, FF/REW
18	87-ZM1-244-010		GEAR, IDL D	48	87-ZM1-242-010		GEAR, IDL B
19	87-ZS1-201-010		YOKE, ROTARY 7ZS1A	A	87-ZM1-273-010		S-SCREW, 1.7-5
20	87-ZS1-205-010		COIL, FP 7ZS1A	B	87-ZM1-274-010		S-SCREW, HEAD 7ZM-1
21	87-ZS1-209-010		PIN ASSY, 7ZS1A	C	87-B10-136-010		W-P, 1.09-3.1-0.4
22	87-ZM1-243-010		GEAR, IDL C	D	87-B10-228-010		W-P, 0.95-2-0.2
23	87-ZS1-202-010		BRG ASSY, 7ZS1A	E	87-ZM1-292-010		W, 1.55-2.62-0.2
24	87-ZM1-248-010		FLY-WHL ASSY, L	F	87-ZM1-291-010		W-P, 0.86-3-0.25
25	80-ZM4-230-310		REAL CAP, L	G	87-ZM1-294-010		W-L, 1.03-2.6-0.188
26	85-ZM2-269-010		SPR-C GEAR REEL				
27	80-ZM4-231-210		REAL CAP, R				
28	87-ZM1-232-010		GEAR, CAM				
29	87-ZM1-266-010		HLDR, DIR				
30	87-ZM1-268-010		LEVER, CAM 2				

ACCESSORIES / PACKAGE LIST

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	8Z-HK4-905-010		IB, H (ECH) <AH>
1	8Z-HK4-907-010		IB, E (EGFSI) 997 <AE>
1	8Z-HK4-908-010		IB, E (EDPHNCZ) 997 <AE>
2	87-B30-253-010		HEADPHONE, HP-M041 <AE>
2	87-B30-273-010		HEADPHONE, HP-M040B <AH>
3	8Z-HK4-951-010		RC UNIT, RC590 <AH>
3	8Z-HK4-952-010		RC UNIT, RC997 <AE>
4	87-B30-038-010		BAT, NB-5G
5	87-B30-137-110		CHARGER, RB-107 H <AH>
5	87-B30-083-010		CHARGER, RB-107 E <AE>
6	8Z-HK4-090-010		BOX, BAT ASSY SIL <AE>
6	8Z-HK4-091-010		BOX, BAT ASSY BLU <AH>
7	82-HK3-951-010		CARRYING, CASE <AE>

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A4 ▶

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