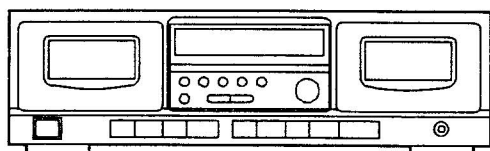


aiwa



AD-WX727

MANUAL SERVICE



STEREO CASSETTE DECK

• BASIC TAPE MECHANISM: 2ZM-1 P3N(D1)
2ZM-1 R3N(D2)

• TYPE: HE.U.EE.E.E1.K

REVISION PUBLISHING

SPECIFICATIONS

Type	Stereo cassette tape deck	Recording system	AC bias
Track format	4 tracks, 2 channels	Erase system	AC erase
Power requirements	AD-WX727HE AC 110-120V/220-240V switchable, 50Hz/60Hz AD-WX727E, E1, EE AC 230V, 50Hz AD-WX727K AC 230-240V, 50Hz AD-WX727U AC 120V, 60Hz	Motor	DC motor × 2
Power consumption	18 W	Playback/recording head	Permalloy head
Frequency response	Metal tape: 20 – 18,000Hz (– 20dB Recording) CrO ₂ tape: 20 – 17,000Hz (– 20dB Recording) Normal tape: 20 – 16,000Hz (– 20dB Recording)	Erase head	Double gap Ferrite head
Signal-to-noise ratio	78 dB (Dolby C NR ON above 5 kHz, metal tape, peak level)	Input	REC/LINE IN: 100 mV (input impedance 47 kΩ, 0 dB) *
Wow and flutter	0.09 % (WRMS)	Output	PLAY/LINE OUT: 510 mV (0 dB)* Optimum load impedance 47 kΩ or more PHONES: 0.25 mW (load impedance 32 Ω, 0 dB) *
		Outer dimensions	(W × H × D) 430 × 140 × 326.5 mm (17 × 5 5/8 × 12 7/8 in.)
		Weight	4.9 kg (10.8 lbs.)

* The "0 VU" of this unit is indicated as "– 4 dB" on the level meter.

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby", the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

CAUTION WHEN SERVICING

If the tape transport mechanisms are in the following state, an abnormal sound may be heard when the power switch is turned on and the mechanisms may not operate. In this case, turn the power switch off and then on again. The mechanisms will operate normally. (The microprocessor will be reset.)

Case : The PLAY solenoids in both decks 1 and decks 2 have drifted down from the normal positions and also the FR solenoid in one deck has drifted down from the normal position.

Case : The FR solenoids in both decks 1 and decks 2 have drifted down from the normal positions and also the PLAY solenoid in one deck has drifted down from the normal position.

■ ACCESSORIES/PACKAGE LIST

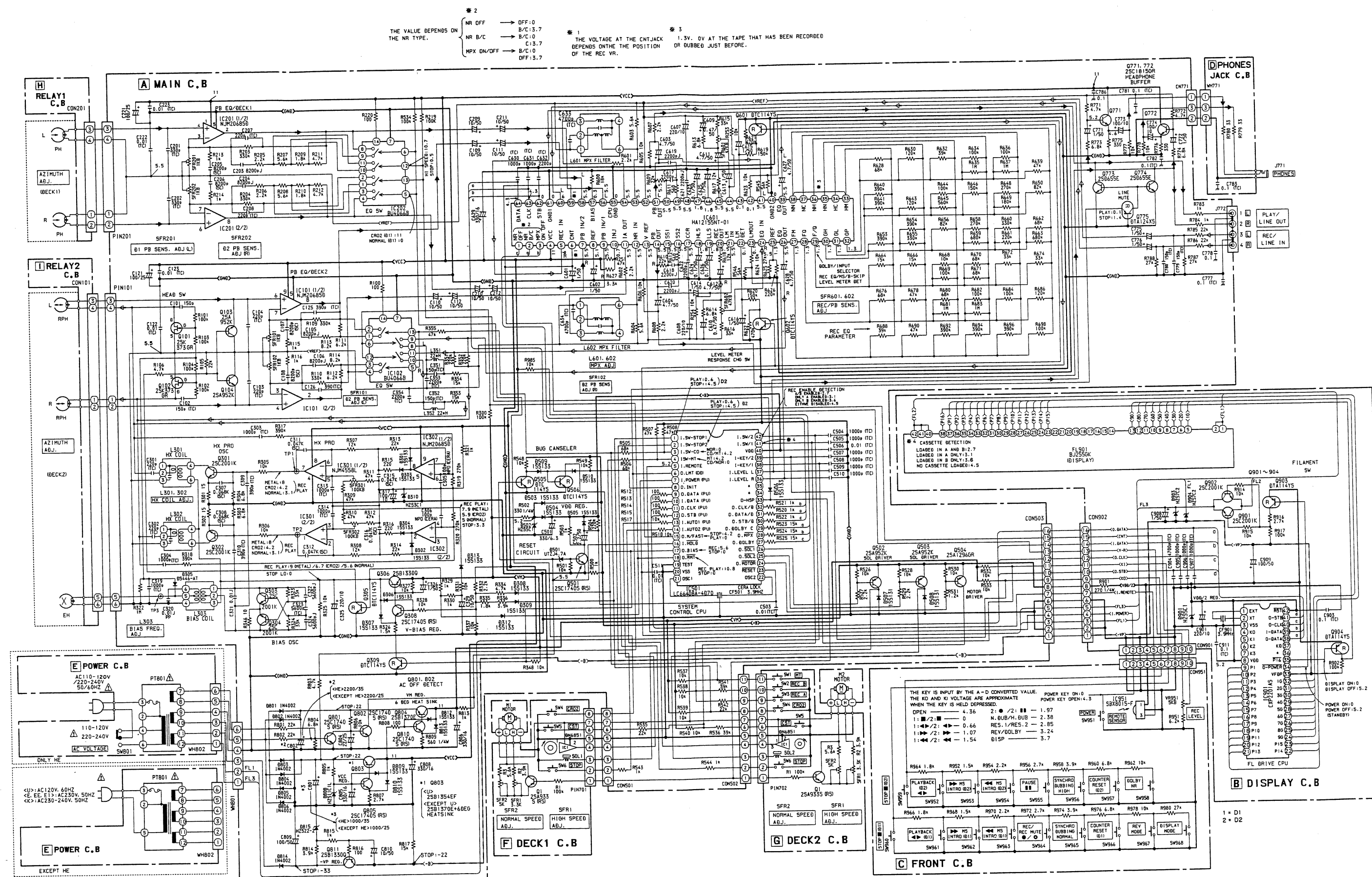
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If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	83-DW3-901-019		IB, EX(S) (EXCEPT U)
2	83-DW3-902-019		IB, U (S) (U)
3	83-DW3-022-019		RC, RC-W102 (U, E1)
4	87-009-725-019		PLUG, ADPTR IR40 (HE)
5	87-034-786-019		CORD PIN 189-0760

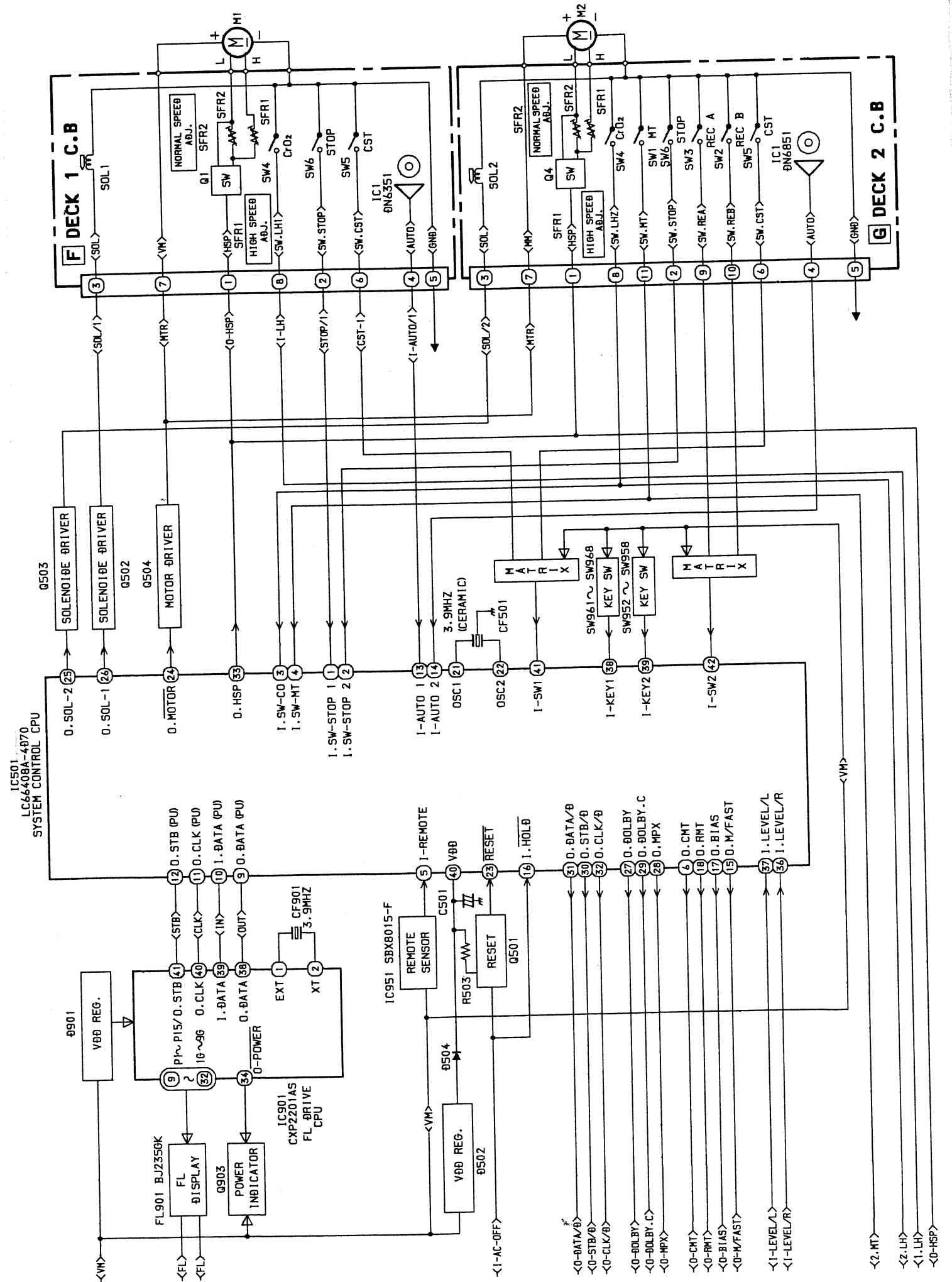
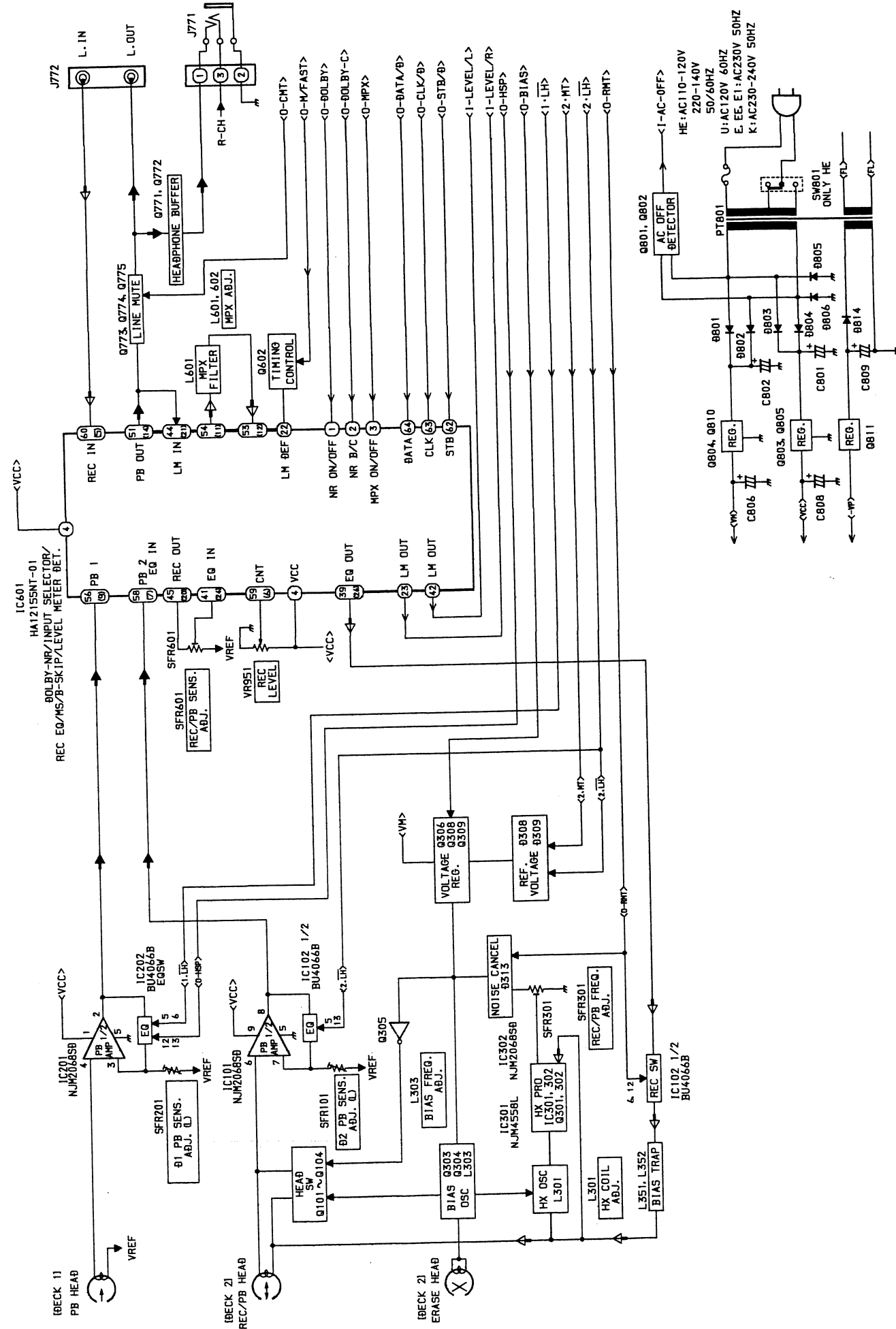
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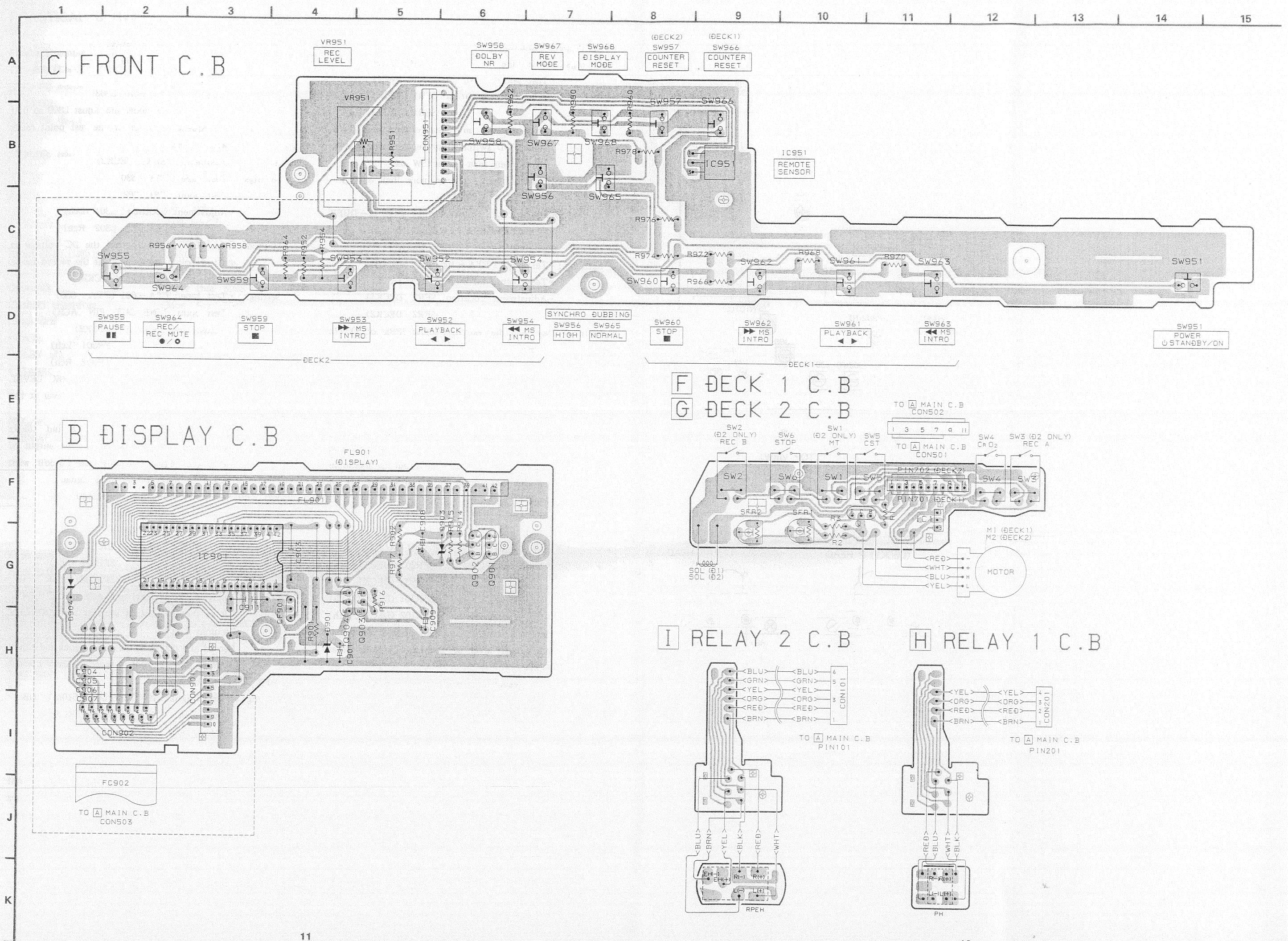
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	カッリ NO.			カッリ NO.	
C804	87-010-382-089	CAP, E 22-25 SME	△PT801	83-DW3-624-019	PT, UC(U)
C805	87-010-381-089	CAP, E 330-16 SME	△SW801	87-031-780-019	SW, SLIDE 1-1-2 (HE)
C806	87-010-381-089	CAP, E 330-16 SME			
C808	87-010-381-089	CAP, E 330-16 SME			
C809	87-010-247-089	CAP, E 100-50 SME			
			DECK 1 C. B		
C810	87-010-405-089	CAP, E 10-50 SME	SFR1	87-024-581-019	SFR, 3.3K DIA 6H KOA
CF501	89-MX1-704-089	CERALOCK (MJ) 3. 9MHZ	SFR2	87-024-331-019	SFR, 5K DIA6H KOA
J772	87-099-184-019	JACK, PIN 4P 6520-37	SOL1	87-ZM1-618-319	SOL ASSY, 27
L301	80-DS4-618-010	COIL, HX85K-4			
			SW4	87-036-110-019	SW, PUSH SPPB 62
L302	80-DS4-618-010	COIL, HX85K-4	SW5	87-036-110-019	SW, PUSH SPPB 62
L303	80-DS4-617-010	COIL, OSC 85K-4	SW6	87-036-110-019	SW, PUSH SPPB 62
L351	82-231-622-089	COIL, 22MH-J			
L352	82-231-622-089	COIL, 22MH-J	DECK 2 C. B		
L601	83-DS3-614-019	FILTR, MPX 85K			
			SFR1	87-024-581-019	SFR, 3.3K DIA 6H KOA
L602	83-DS3-614-019	FILTR, MPX 85K	SFR2	87-024-331-019	SFR, 5K DIA6H KOA
SFR101	87-024-168-089	SFR, 1K DIA6 V	SOL2	82-ZM1-618-319	SOL ASSY, 27
SFR102	87-024-168-089	SFR, 1K DIA6 V			
SFR201	87-024-168-089	SFR, 1K DIA6 V	SW1	87-036-110-019	SW, PUSH SPPB 62
SFR202	87-024-168-089	SFR, 1K DIA6 V	SW2	87-036-110-019	SW, PUSH SPPB 62
			SW3	87-036-110-019	SW, PUSH SPPB 62
SFR301	87-024-176-089	SFR, 100K DIA6 V	SW4	87-036-110-019	SW, PUSH SPPB 62
SFR302	87-024-176-089	SFR, 100K DIA6 V	SW5	87-036-110-019	SW, PUSH SPPB 62
SFR601	87-024-175-089	SFR, 47K DIA6 V	SW6	87-036-110-019	SW, PUSH SPPB 62
SFR602	87-024-175-089	SFR, 47K DIA6 V			
			RELAY 1 C. B		
DISPLAY C. B					
C901	87-010-248-089	CAP, E 220-10 SME	CON201	83-DW3-619-019	CONN ASSY, 4P HEAD
C903	87-018-214-089	CAP, TC-U 0.1-50F			
C904	87-018-133-089	CAP, TC-U 4700P-16 X	RELAY 2 C. B		
C905	87-018-131-089	CAP, TC-U 1000P-50 B			
			CON101	83-DW3-620-019	CONN ASSY, 6P HEAD
C906	87-018-131-089	CAP, TC-U 1000P-50 B			
C907	87-018-131-089	CAP, TC-U 1000P-50 B			
C908	87-010-401-089	CAP, E 1-50 SME			
C909	87-010-247-089	CAP, E 100-50 SME			
C911	87-018-214-089	CAP, TC-U 0.1-50F			
CF901	89-MX1-704-089	CERALOCK (MJ) 3. 9MHZ			
FL901	83-DW3-629-119	FL, BJ255GK			
FRONT C. B					
IC951	87-017-725-010	RC UNIT, SBX8015-F			
SW951	87-036-170-089	SW, TACT			
SW952	87-036-170-089	SW, TACT			
SW953	87-036-170-089	SW, TACT			
SW954	87-036-170-089	SW, TACT			
SW955	87-036-170-089	SW, TACT			
SW956	87-036-170-089	SW, TACT			
SW957	87-036-170-089	SW, TACT			
SW958	87-036-170-089	SW, TACT			
SW959	87-036-170-089	SW, TACT			
SW960	87-036-170-089	SW, TACT			
SW961	87-036-170-089	SW, TACT			
SW962	87-036-170-089	SW, TACT			
SW963	87-036-170-089	SW, TACT			
SW964	87-036-170-089	SW, TACT			
SW965	87-036-170-089	SW, TACT			
SW966	87-036-170-089	SW, TACT			
SW967	87-036-170-089	SW, TACT			
SW968	87-036-170-089	SW, TACT			
VR951	80-SP5-622-019	VR, 5K B			
PHONES JACK C. B					
C783	87-018-214-089	CAP, TC-U 0.1-50F			
J771	87-099-580-019	JACK, 6.3 ST/SW/4609G			
POWER C. B					
△PT801	83-DW3-622-019	PT, EZ (EE, E1, E)			
△PT801	83-DW3-621-019	PT, HE (HE)			
△PT801	83-DW3-623-019	PT, K (K)			

SCHEMATIC DIAGRAM

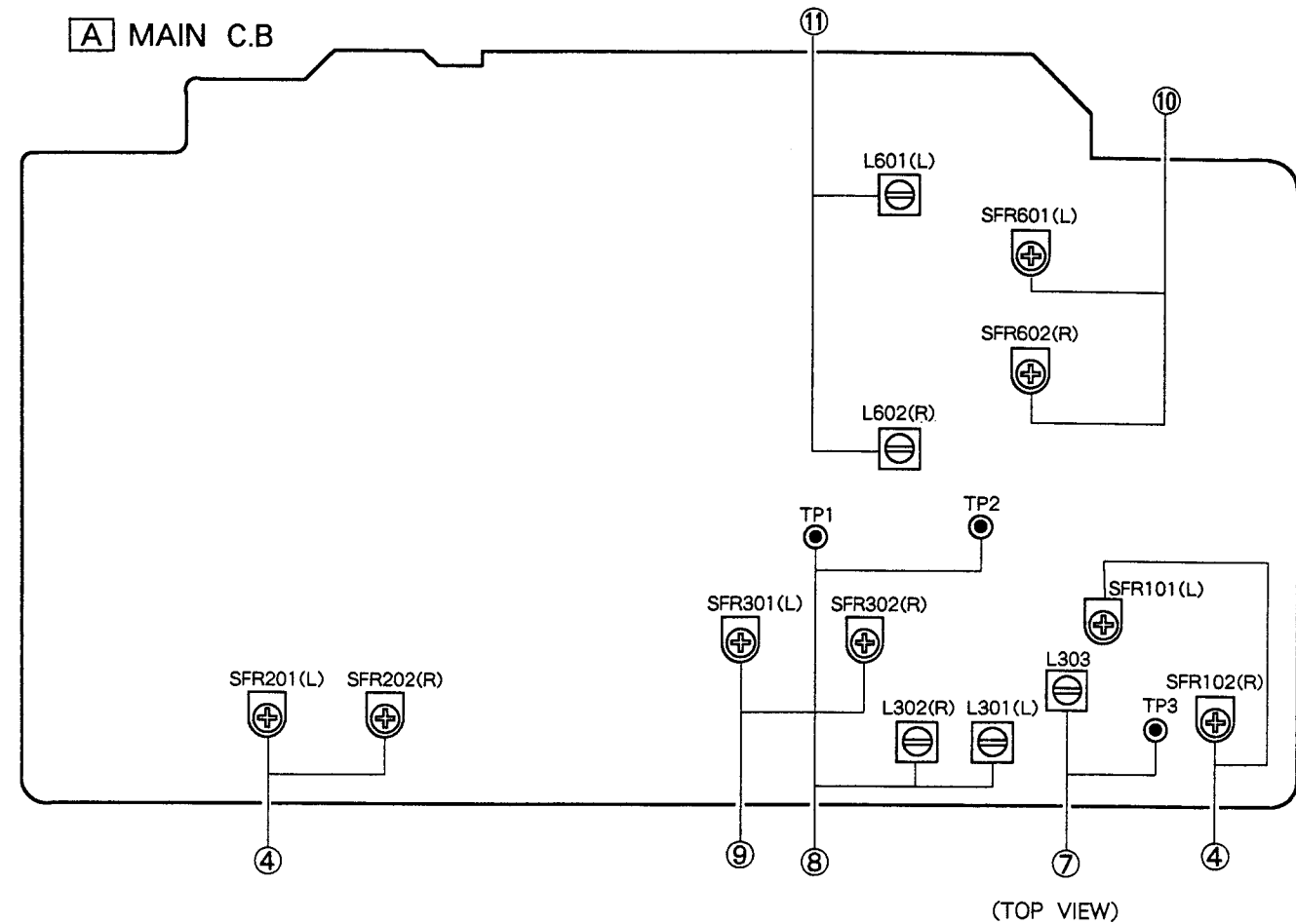




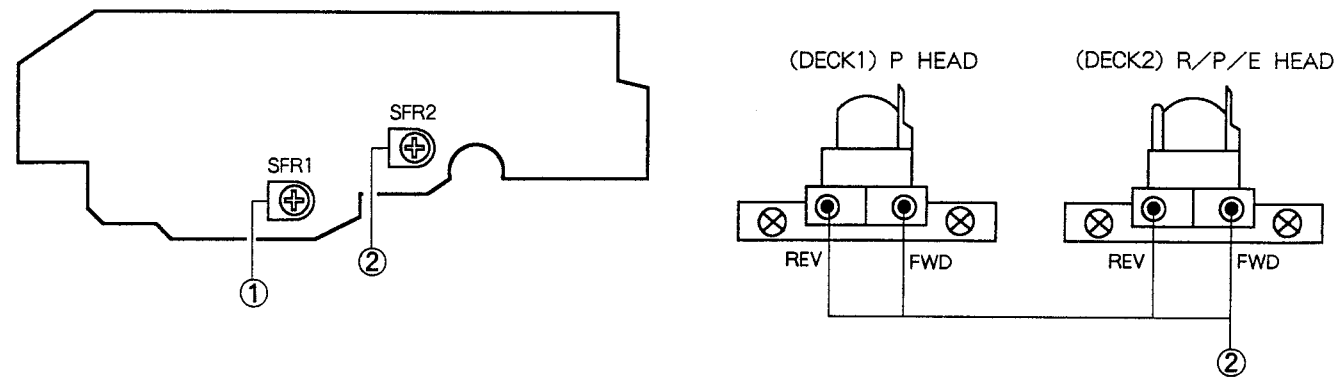




ADJUSTMENT



F DECK 1 C.B
G DECK 2 C.B



1. High Speed Adjustment (DECK1, DECK2)

- Settings : • Test tape : TTA - 100 (TTA - 111S)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : SFR1 (DECK1)
SFR1 (DECK2)

When doesn't put cassette tape in DECK2, make FWD switch of prevent recording lever to on, then turn Power SW on.
(hold the pushed lever more than 3 sec.)
(into TEST MODE)

Method : Play back the test tape, then push H - DUBB key and adjust SFRs for $6000\text{Hz} \pm 20\text{Hz}$.

2. Normal Speed Adjustment (DECK1, DECK2)

- Settings : • Test tape : TTA - 100 (TTA - 111S)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : SFR2 (DECK1)
SFR2 (DECK2)

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

3. Head Azimuth Adjustment (DECK1, DECK2)

- Settings : • Test tape : TTA - 310 (TTA - 317E)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : Head azimuth adjustment screw.

Method : Play back the 10kHz signal of test tape and adjust screw so that the output is maximum and the waveforms in the lissajours are in phase.

4. PB Sensitivity Adjustment (DECK1, DECK2)

- Settings : • Test tape : TTA - 200 (TTA - 161)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : SFR201 (DECK1, Lch)
SFR202 (DECK1, Rch)
SFR101 (DECK2, Lch)
SFR102 (DECK2, Rch)

Method : Play back the test tape, and adjust SFRs so that the output level of the test point becomes 460mV.

5. PB Frequency Response Check (DECK1, DECK2)

- Settings : • Test tape : TTA - 310 (TTA - 317E)
• Test point : LINE OUT (PIN JACK)

Method : Play back the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signals $0\text{dB} \pm 2\text{dB}$ with respect to that of the 315Hz signal.

6. Level Meter Check (DECK1, DECK2)

- Settings : • Test tape : TTA - 601

Method : Record set to make 510mV at LINE OUT.

Check the reading of the level meter.

- FL light on 0dB
- FL light off + 2dB

7. Bias Frequency Adjustment (DECK2)

- Settings : • Test tape : TTA - 630
• Test point : TP3
• Adjustment Location : L303

Method : Set to the record mode, and adjust L303 so that the frequency counter of the test point reads $86\text{kHz} \pm 1\text{kHz}$.

8. HX Coil Adjustment (DECK1, DECK2)

- Settings : • Test tape : TTA - 630
• Test point : TP1, TP2
• Adjustment Location : L301 (Lch)
L302 (Rch)

Method : Adjust L301, L302 so that the DC voltage at the test points is minimum at the record mode.

9. REC/PB Frequency Adjustment (DECK2)

- Settings : • Test tape : TTA - 601 (TTA - 630)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : (DECK2)

SFR301 (Lch)

SFR302 (Rch)

Method : Apply a 1kHz signal and adjust REC LEVEL VR attenuator so that the output level at the LINE OUT jack becomes 32mV.

Record and playback the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signal becomes $0\text{dB} \pm 0.5\text{dB}$ with respect to that of the 1kHz signal.

10. REC/PB Sensitivity Adjustment (DECK2)

- Settings : • Test tape : TTA - 601 (TTA - 630)
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : (DECK2)

SFR601 (Lch)

SFR602 (Rch)

Method : Apply a 1kHz signal and adjust REC LEVEL VR so that the output level at the LINE OUT becomes 32mV.

Record and playback the 1kHz signal and adjust SFRs so that the output becomes $32\text{mV} \pm 0.5\text{dB}$.

11. MPX Adjustment (DECK2)

- Settings : • Input signal : $19000\text{Hz} \pm 50\text{Hz}$ 510mV 0dB
• Test point : LINE OUT (PIN JACK)
• Adjustment Location : (DECK2)

L601 (Lch)

L602 (Rch)

Method : Apply a 19kHz signal and adjust Ls so that the output level at the LINE OUT becomes more than -30dB in DOLBY NR (B/C) on.

Notice : How to release TEST mode.

Turn Power SW off.

PRACTICAL SERVICE FIGURE

Playback output Level (TTA-200) (TTA-161, TCC-130)	: 460mV $\pm$ 0.5dB (LINE OUT)
REC/PB output (TTA-601)	: 320mV $\pm$ 1dB (LINE OUT)
REC/PB distortion	: Less than 2.0 % (NORM., CrO ₂ , MT)
Playback noise	: Less than 4.0/3.5mV (120 μ s/70 μ s, DOLBY NR OFF) Less than 1.8/1.5mV (120 μ s/70 μ s, DOLBY NR B, C)
Erase ratio (125Hz)	: (DECK2) More than 58dB
Crosstalk	: More than 60dB
Channel separation	: More than 30dB
Level drift (10kHz, TTA-300)	: Within 1dB
DOLBY effect (TTA-610)	: More than 8.5dB (DOLBY NR B) : More than 17dB (DOLBY NR C)
REC/PB S/N ratio (LINEAR)	: Less than 4.0/3.5mV (DOLBY NR OFF NORM./ MT, CrO ₂) : Less than 1.8/1.5mV (DOLBY NR B, C NORM./ MT, CrO ₂)
Recoding bias frequency	: (DECK2) 85kHz
Tape speed	: 3kHz $\pm$ 1.5 %
Wow & flutter (W.R.M.S)	: Less than 0.18 % (DECK1, 2)
Take-up torque	: 30~55g-cm (DECK 1, 2)
Fast forward torque	: 75~160g-cm (DECK 1, 2)
Rewind torque	: 75~160g-cm (DECK 1, 2)
Back-tension	: 2~6g-cm (DECK 1, 2)
Test tape	: METAL TTA-630 CrO ₂ TTA-610 (TTA-119H) NORMAL TTA-601

IC DESCRIPTION

IC, LC66408-4D70

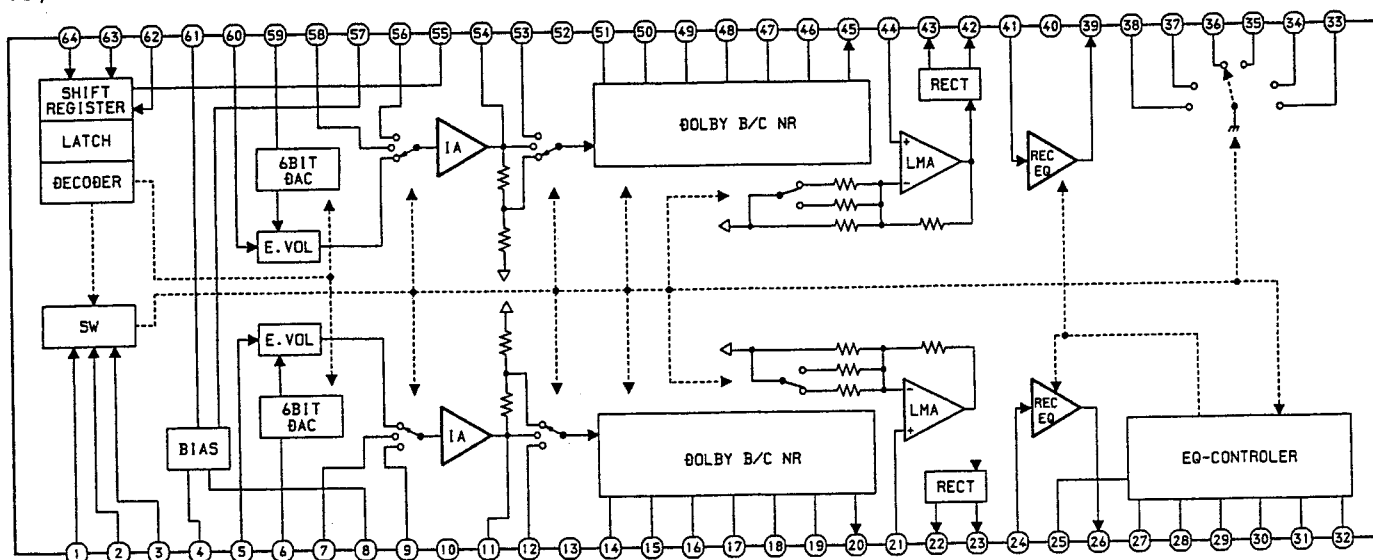
Pin No.	Pin Name	I/O	Description
1	SW-STOP1	I	STOP SW signal input of DECK1.
2	SW-STOP2	I	STOP SW signal input of DECK2.
3	SW-CO	I	CrO ₂ SW signal input of DECK2.
4	SW-MT	I	Metal SW signal input of DECK2.
5	REMOTE	I	Serial data input terminal of remote controller.
6	LMT (OD)	O	Output terminal for record/playback monitor output signal muting. "H" at muting.
7	POWER	I	POWER SW signal input.
8	INIT	O	Initial port.
9	DATA (PU)	O	Serial data output terminal for CXP-2201 (FL display).
10	DATA (PU)	I	Serial data input terminal for CXP-2201 (FL display).
11	CLK (PU)	O	Serial data clock signal for CXP-2201 (FL display).
12*	STB (PU)	O	Strobe signal for CXP-2201 (FL display).
13	AUTO1 (PU)	I	Reel pulse input terminal of DECK1.
14	AUTO2 (PU)	I	Reel pulse input terminal of DECK2.
15	M/FAST	O	Release timing control output of level meter.
16	HOLD	I	"L" when AC power turns off. Then the microcomputer is held.
17	BIAS	O	Bias oscillation output terminal for DECK2. "H" at recording/dubbing. "L" at resetting.
18	RMT	O	Muting output terminal for record input. "L" at record mute.
19	TEST	I	MPU test terminal. Connected to VSS.
20	VSS	-	Common terminal for MPU. (GND)
21	OSC1	-	3.9MHz Oscillation terminal.
22	OSC2	-	3.9MHz Oscillation terminal.
23	RESET	I	Reset input terminal. Active "L".
24	MOTOR	O	Main motor control output terminal for DECK1 and DECK2. "H" with both decks at STOP.
25	SOL2	O	Solenoid drive output terminal for DECK2. Active "L".
26	SOL1	O	Solenoid drive output terminal for DECK1. Active "L".
27	DOLBY	O	DOLBY NR ON/OFF switching output terminal. "H" at DOLBY NR ON.
28	MPX	O	Multiplex filter ON/OFF switching output terminal. "L" at MPX filter ON.
29	DOLBY C	O	DOLBY NR B/C switching output terminal. "H" at DOLBY NR C.
30	STB/D	O	Strobe signal for HA12155NT-01 (Dolby IC).
31	DATA/D	O	Serial data output terminal for HA12155NT-01 (Dolby IC).
32	CLK/D	O	Serial data clock signal for HA12155NT-01 (Dolby IC).
33	HSP	O	High-speed control output terminal for DECK1 and DECK2. "H" at HIGH SPEED DUBBING.
34	-	-	Not used.
35	-	-	Not used.
36	LEVEL R	I	R ch. music signal level input terminal.
37	LEVEL L	I	L ch. music signal level input terminal.
38	KEY/1	I	Key function control input terminal.
39	KEY/2	I	Key function control input terminal.
40	VDD	-	Power terminal. (+5V)
41	SW/1	I	Mechanism switch control input terminal.
42	SW/2	I	Mechanism switch control input terminal.

IC, CXP2201AS

Pin No.	Pin Name	I/O	Description
1	EXT	I	Ceramic connector for system clock oscillator use.
2	XT	O	
3	VSS	-	Connect to VSS.
4 5 7	NC	-	Not used.
8	VDD	-	Connect to VDD. (+5.2V)
9 5 23	P1 5 P15	O	Exclusive segment output (with built-in pull-down resistor).
24 5 32	9G 5 1G	O	Exclusive timing output (with built-in pull-down resistor).
33	VFDP	-	Load power supply for FDP.
34	POWER	O	FL power ON/OFF switching output terminal. "L" at power ON.
35	P16	O	Display ON/OFF switching output terminal. "L" at display ON.
36,37	NC	-	Not used.
38	DATA	O	Serial data output.
39	DATA	I	Serial data input.
40	CLK	O	Shift clock output.
41	STB	O	Strobe signal output.
42	RST	I	Reset (with built-in pull-up resistor and power-on reset circuit).

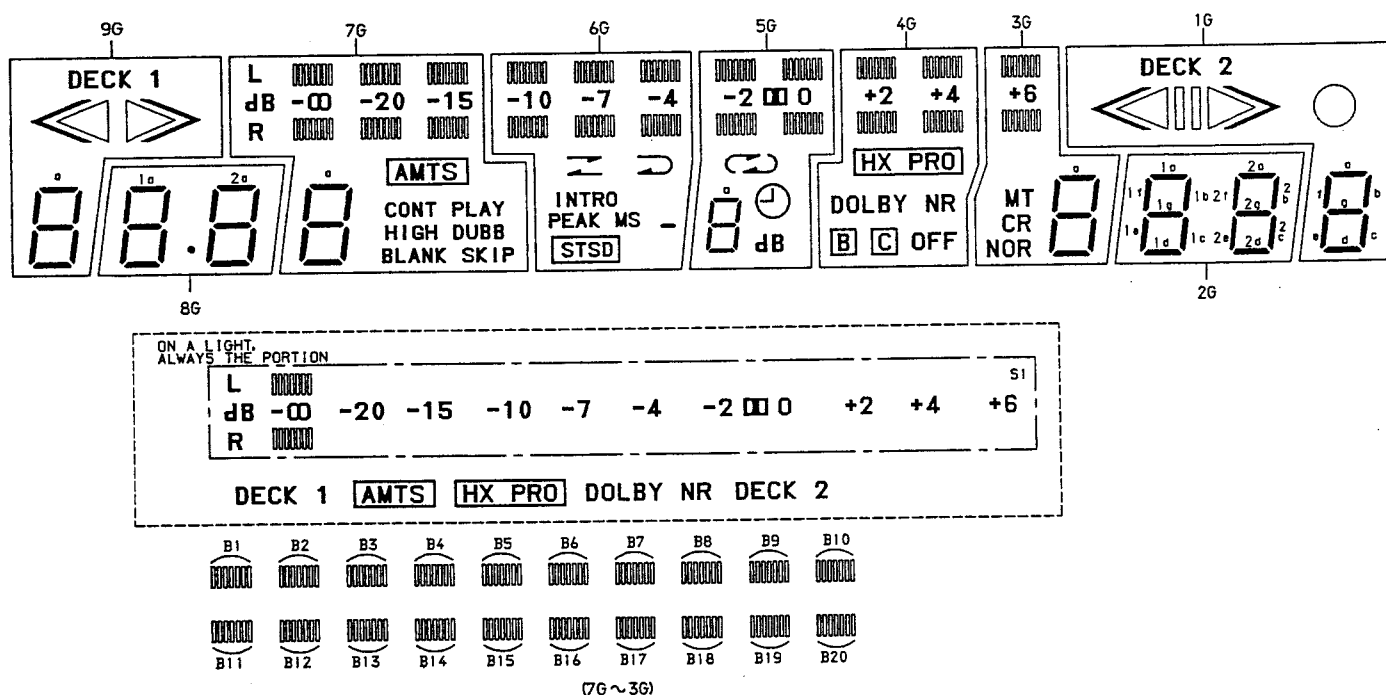
IC BLOCK DIAGRAM/FL (DISPLAY)

IC, HA12155NT - 01



FL901 (DISPLAY)

BJ255GK



ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	1a	a	PEAK	a	—	a	1a	a
P2	b	1b	b	MS	b	—	b	1b	b
P3	f	1f	f	—	f	—	f	1f	f
P4	g	1g	g	—	g	—	g	1g	g
P5	c	1c	c	STSD	c	—	c	1c	c
P6	e	1e	e	INTRO	e	—	e	1e	e
P7	d	1d	d	—	d	—	d	1d	d
P8	◀	o	B1	B3	B6	B8	B10	o	▶
P9	◀	2a	B2	B4	B7	B9	B20	2a	▶
P10	—	2b	B11	B5	B16	B18	MT	2b	
P11	▶	2c	B12	B13	B17	B19	CR	2c	◀
P12	▶	2d	BLANK SKIP	B14	dB	B	NOR	2d	▶
P13	—	2e	HIGH	B15	⊙	C	—	2e	○
P14	—	2f	DUBB	⌞	⌞	OFF	—	2f	—
P15	—	2g	CONT PLAY	⌞	—	—	—	2g	—
P16	DECK 1	—	S1 AMTS	S1	S1	S1 DOLBY BII	S1	—	DECK 2

TRANSISTOR ILLUSTRATION



ECB

2SA952
2SA1296
2SC1815
2SC2001
2SD655



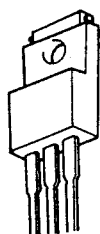
SGD

2SK373



BCE

2SA933
2SC1740
DTA114YS
DTA124XS
DTC114YS



BCE

2SB1370

Printed side



ECB

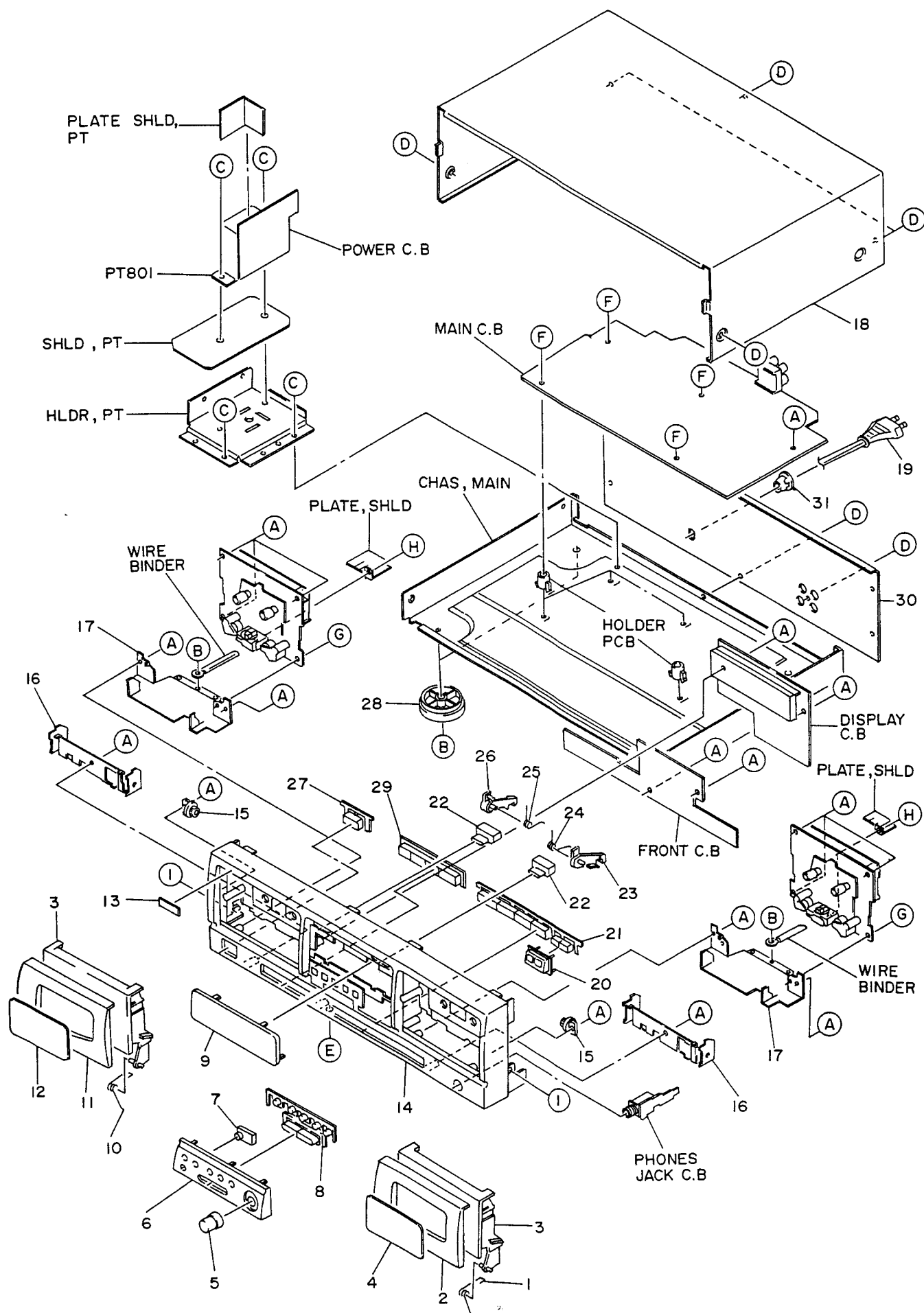
2SB1330



BCE

2SB1354

MECHANICAL EXPLODED VIEW 1/1

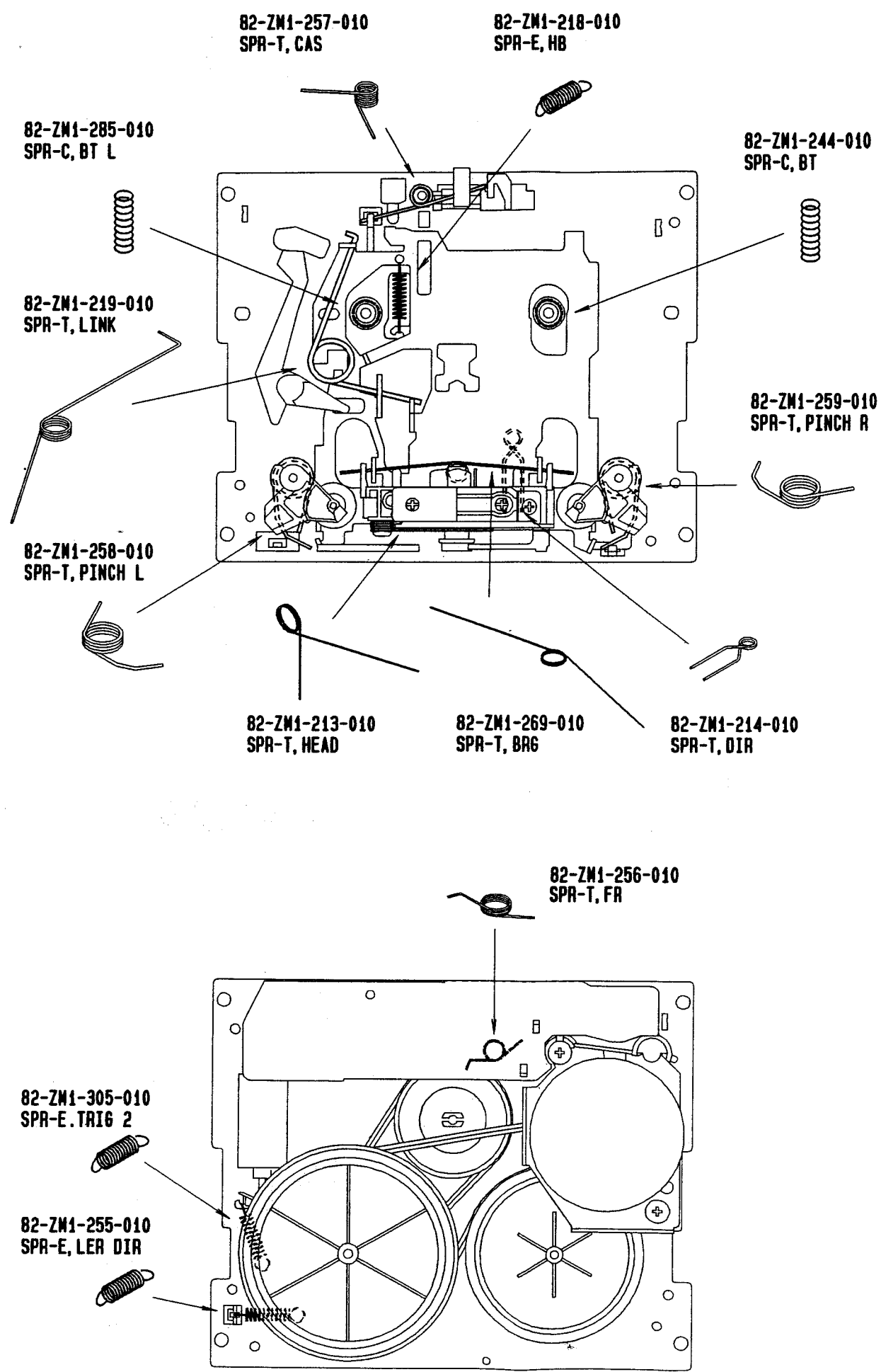


MECHANICAL PARTS LIST 1/1

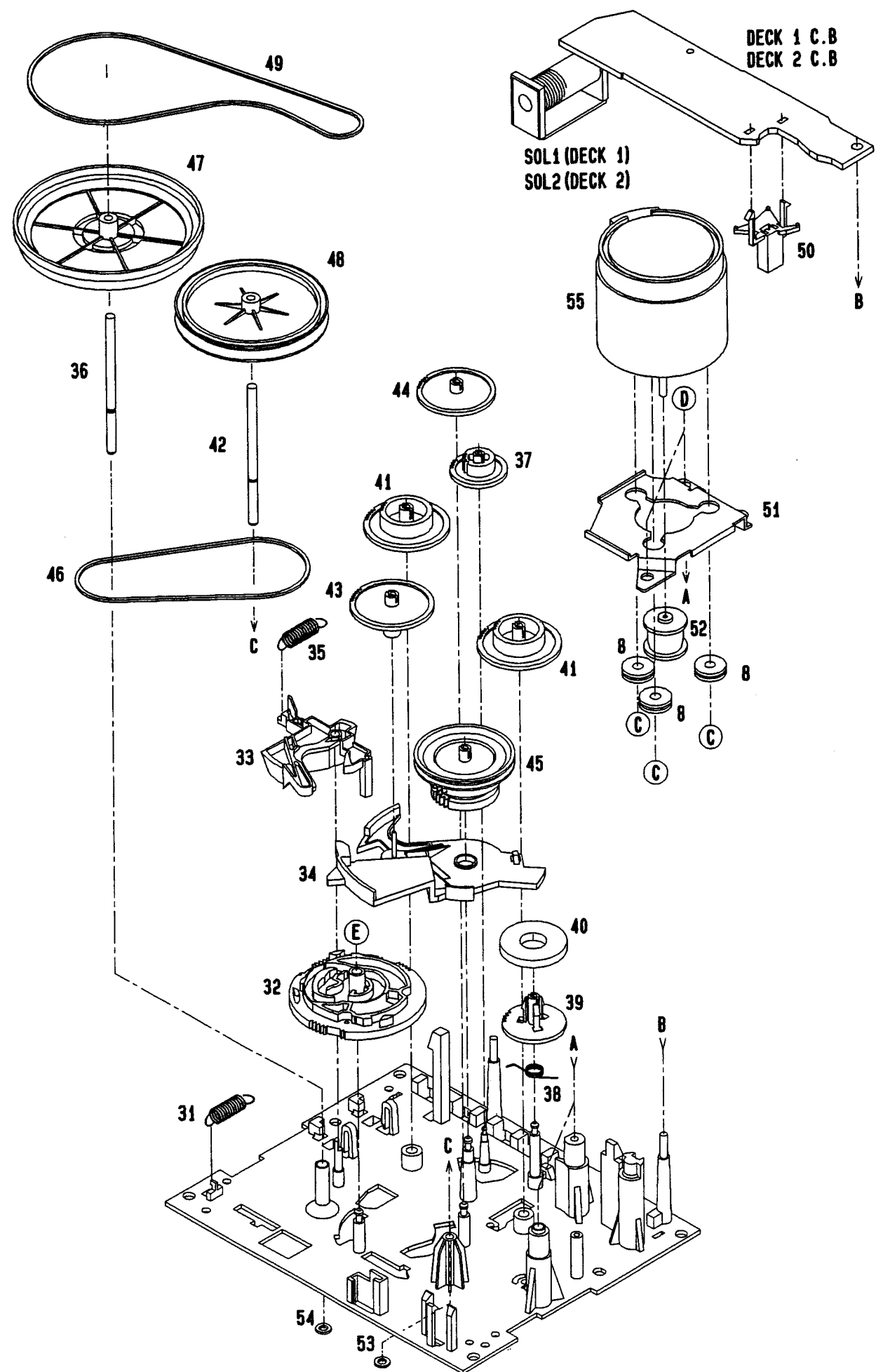
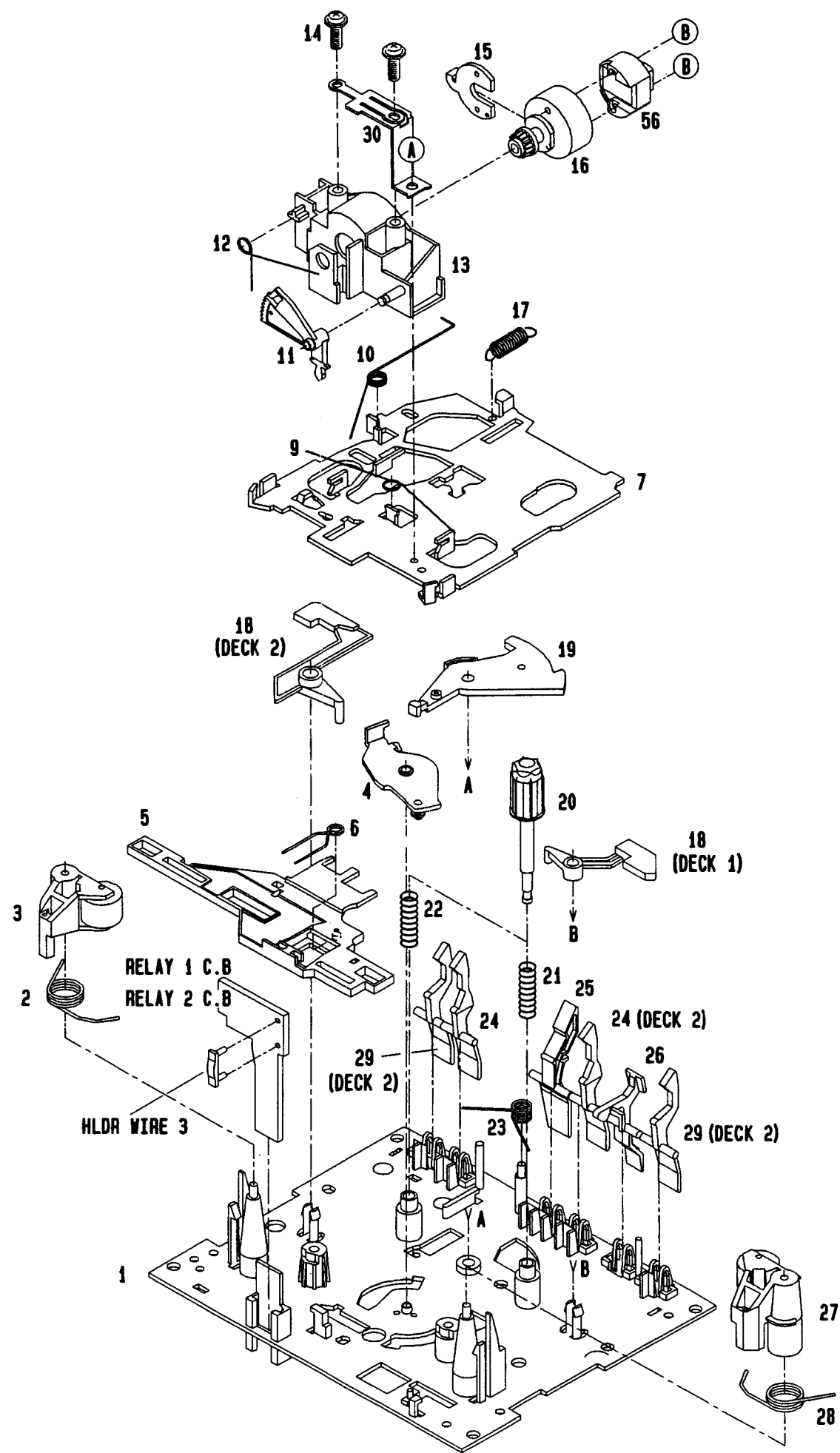
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REF. NO.	PART NO.	カリ NO.	DESCRIPTION
1	83-DW3-212-019		SPR-T, EJECT R
2	83-DW3-003-019		PANEL, CASS R
3	09-047-508-010		CASS. BOX 1 2 ASSY<EXCEPT U>
3	09-047-509-010		CASS. BOX 1 2 ASSY<U>
4	83-DW3-019-019		WINDOW, CASS R
5	83-DW3-011-019		KNOB, LEVEL
6	83-DW3-017-019		DUMMY, FR
7	82-DW1-015-019		WINDOW SENSOR
8	83-DW3-006-019		KEY, DUBB
9	83-DW3-004-019		WINDOW, DISP
10	83-DW3-211-019		SPR-T, EJECT L
11	83-DW3-002-019		PANEL, CASS L
12	83-DW3-005-019		WINDOW, CASS L
13	81-DS1-011-019		BADGE, AIWA N
14	83-DW3-001-019		CAB, FR<EXCEPT U>
14	83-DW3-020-019		CAB, FRU<U>
15	87-063-143-010		OIL-DMPR 75
16	83-DW3-201-019		HLD, BOX
17	83-DW3-202-019		HLD, MECHA
18	82-DW1-002-019		CAB, STEEL
△19	87-050-032-019		AC CORD ASSY K 3P S<K>
△19	87-050-034-019		AC CORD ASSY, E<HE, EE, E1, E>
△19	87-050-053-019		AC CORD ASSY, U-2<U>
20	83-DW3-018-019		DUMMY, KEY
21	83-DW3-009-019		KEY, DECK R
22	83-DW3-012-019		BTN, OPEN
23	83-DW3-206-019		LVR, OPEN (R)
24	83-DW3-210-019		SPR, OPEN (R)
25	83-DW3-207-019		SPR, OPEN (L)
26	83-DW3-205-019		LVR, OPEN (L)
27	83-DW3-007-019		KEY, POWER
28	82-AA1-029-119		FOOT (SG)
29	83-DW3-008-019		KEY, DECK L
30	83-DW3-013-019		PANEL, REAR EBN<EE, E1, E>
30	83-DW3-016-019		PANEL, REAR HE, JBN<HE>
30	83-DW3-014-019		PANEL, REAR KBN<K>
30	83-DW3-021-019		PANEL, REAR UBN<U>
31	87-085-185-010		BUSHING, AC CORD E<EXCEPT U>
31	87-085-189-010		BUSHING, CORD U<U>
A	87-067-579-019		BVT 2+3-8 W/O SLOT
B	87-067-584-019		BVT2+3-6 W/O SLOT
C	87-067-585-019		BVTT +4-6
D	87-067-660-019		BVT2+3-8 W/O SLOT BLK
E	87-067-673-019		BVTT +3-8 BLK
F	87-067-698-019		BVT 2+3-18 W/O SLOT
G	87-251-094-419		U+3-6
H	87-571-032-419		VIT+2-3
I	87-591-094-419		QIT+3-6 GOLD

SPRING APPLICATION POSITION



TAPE MECHANISM EXPLODED VIEW 1/1



TAPE MECHANISM PARTS LIST 1/1

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.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-ZM1-299-010		CHAS ASSY, R	35	82-ZM1-305-010		SPR-E, TRIG 2
2	82-ZM1-258-010		SPR-T, PINCH L	36	82-ZM1-239-010		CAPSTAN 2.2-41.7
3	82-ZM1-248-110		LVR ASSY, PINCH L	37	82-ZM1-223-010		GEAR, PLAY
4	82-ZM1-295-210		PLATE ASSY, LINK	38	82-ZM1-256-110		SPR-T, FR
5	82-ZM1-266-010		LVR, DIR	39	82-ZM1-220-110		GEAR, IDLER
6	82-ZM1-214-010		SPR-T, DIR	40	82-ZM1-316-010		RING MAGNET 3
7	82-ZM1-206-210		CHAS, HEAD	41	82-ZM1-216-210		GEAR, REEL
8	82-ZM1-308-019		CUSH-G, DIA3.7-9-3.2	42	82-ZM1-236-010		CAPSTAN 2-41.5
9	82-ZM1-269-010		SPR-T, BRG	43	82-ZM1-225-010		GEAR, FR
10	82-ZM1-219-010		SPR-T, LINK	44	82-ZM1-226-010		GEAR, REW
11	82-ZM1-210-010		GEAR, H T	45	82-ZM1-228-210		SLIP DISK ASSY
12	82-ZM1-213-010		SPR-T, HEAD	46	82-ZM1-328-010		BELT, FR 2
13	82-ZM1-325-110		GUIDE, TAPE H	47	82-ZM1-304-01K		FLY-WHL, RH
14	82-ZM1-283-310		S-SCREW, AZIMUTH	48	82-ZM1-303-01K		FLY-WHL, LH
15	82-ZM1-314-119		PLATE, HEAD	49	86-575-415-010		BELT, FLAT 0.55-217
16	82-ZM1-326-010		HLDR, HEAD H	50	82-ZM1-245-210		HLDR, IC
17	82-ZM1-218-010		SPR-E, HB	51	82-ZM1-321-01K		HLDR, MOTOR H
18	83-DW3-203-010		LVR, EJECT L (DECK 1)	52	82-ZM1-323-010		PULLEY, MOTOR H
18	83-DW3-204-010		LVR, EJECT R (DECK 2)	53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
19	82-ZM1-222-010		LVR, PLAY	54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
20	82-ZM1-217-110		REEL, TABLE	55	87-045-348-010		MOT, SHW 2L 70(M1, M2)
21	82-ZM1-244-110		SPR-C, BT	56	87-046-355-019		HEAD, PH HADKH2529 (PH)
22	82-ZM1-285-110		SPR-C, BT L	56	87-046-390-019		HEAD, RPEH HADKH5597A (RPEH)
23	82-ZM1-257-010		SPR-T, CAS	A	82-ZM1-315-010		S-SCREW, GUIDE TAPE
24	82-ZM1-241-110		LVR, MC	B	80-ZM6-207-010		V+1.6-7
25	82-ZM1-242-010		LVR, CAS	C	82-ZM1-309-010		S-SCREW, MOTOR
26	82-ZM1-243-010		LVR, STOP	D	87-741-073-410		UT2+2.6-6 GLD
27	82-ZM1-253-110		LVR ASSY, PINCH R	E	87-067-932-010		PW, 2.15-6.8-0.5 SLT
28	82-ZM1-259-010		SPR-T, PINCH R				
29	82-ZM1-240-110		LVR, REC (DECK 2)				
30	82-ZM1-298-010		SPR-P, EARTH				
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				

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
サーヂブレッサ	SERGESUPPRESSOR
セラコン	CAP, CERA

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, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING 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
ジグ-ム	ARM, SHAFT
ジグガイド	GUIDE, SHAFT
ストラップ	STRAP
トクバ	S-SCRW
ピンジ	HINGE
ピンジビス	S-SCRW
エキレート	SCRW, SERRART

サービス技術ニュース	
番号	連絡内容
G -	-
G -	-
G -	-

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