

Tuner: ST-HD81, Compact Disc Changer: SL-HD81, Amplifier: SE-HD81, Cassette Deck: RS-HD81, Speakers: *SB-HD81

Notes: *..... Made in PAES

AWARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



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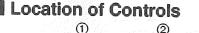
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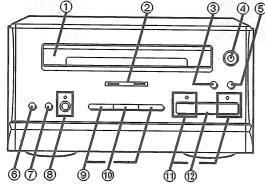
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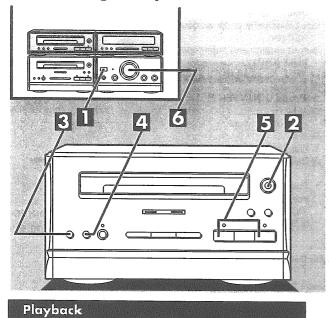
NOTE:

Refer to the service manual for Model No. SE-HD81 (ORDER No. AD9802028C2) and SE-HD51 (ORDER No. AD9802031C2) for information on "ACCESSORIES", "INSTALLATION", "CONNECTIONS" and "PACKAGING".





Listening to Tapes



Type of tape which can be played correctly: The unit automatically identifies the type of tape.

Normal position/TYPE I	0				
High position/TYPE II	0				
Metal position/TYPE IV	0				

- ① Cassette holder
- ② Fast forward/rewind indicators (HIGH SPEED FF/REW)
- ③ Counter reset button (COUNTER RESET)
 ④ Cassette tray open/close button
- (5) Display button (DISPLAY)
- Dolby noise reduction button (DOLBY NR)
- ⑦ Reverse mode select button (REV MODE)
- Record pause button and indicator (
 REC PAUSE)
 Fast forward/rewind/tape program sensor buttons
- ([TPS] ◀◀, ▶▶ [TPS]) (1) TPS skip button (TPS SKIP)
- If a stap button (IFS SKIP)
 Playback buttons and indicators (◀, ►)
- 12 Stop button (III)

Switch on the power.

Press ▲ OPEN/CLOSE on deck, and then insert the tape.

Load a tape with the exposed side facing the cassette holder's insertion part.

Insert the cassette tape until it touches the back of the compartment.

Press \triangleq OPEN/CLOSE once again to close the cassette holder. Note

Keep your fingers out of the cassette tray so that you do not get pinched when it closes.

To listen to a tape recorded in Dolby B NR

Press DOLBY NR and check "DD"is displayed. When playing back a tape which was not recorded on Dolby NR system, press DOLBY NR so that indications go off.

- Press REV MODE to select the reverse mode.
 - Each time you press REV MODE, one of the indicators will appear.
 - The deck plays one side only, and then stops automatically.
 - The deck plays both sides, and then stops automatically.
 The deck plays both sides 8 times, and then stops automatically.

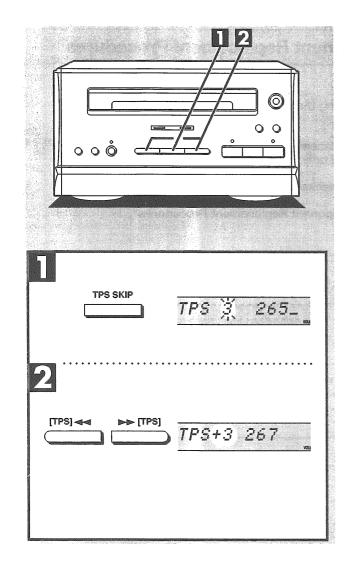
5 Press ◀ or ▶.

- \blacktriangleright : The forward side will play.
- ◄: The reverse side will play.

Adjust the volume level as you like.

To stop tape playback: Press .

- 2 -



To find the beginning of a program (TPS: tape program sensor)

The number of programs corresponding to the number of times TPS SKIP was pressed will be skipped, and the desired program is located (up to 9 programs before or after the program now heard).

Press TPS SKIP until selecting the numbers of tracks you want to skip.

Each time you press this button, the display will change as follows:

 $\operatorname{TPS}_{\uparrow} 1 \rightarrow 2 \rightarrow 3...8 \rightarrow 9 \rightarrow TAPE$

Press [TPS] ◄◀ or ▶▶ [TPS].

If the forward side (▶) is playing: ▶▶ [TPS]: Skips forward by the number of tracks correspond-

ing to the number you select in step 1. ("+" lights.) [TPS] ◀◀: Skip backward by the number of tracks correspond-

ing to the number you select in step 1. ("-" lights.) When you select "TPS 1", the deck will skip back to the beginning of the track you are currently listening to and will start playing it again.

The illustration shows an example when you select "TPS 3" while the forward side (\triangleright) is playing.

If the reverse side (<) of the tape is playing:

The reverse operation will take place.

Notes

- •To change the setting (the number of the programs to be skipped, the tape travel direction, etc.) while TPS skip is activated, press III to stop the deck first.
- If the number of TPS skips specified is larger than the number of songs recorded on the tape, the unit may stop at the end of the tape or otherwise fail to operate correctly.

For your reference:

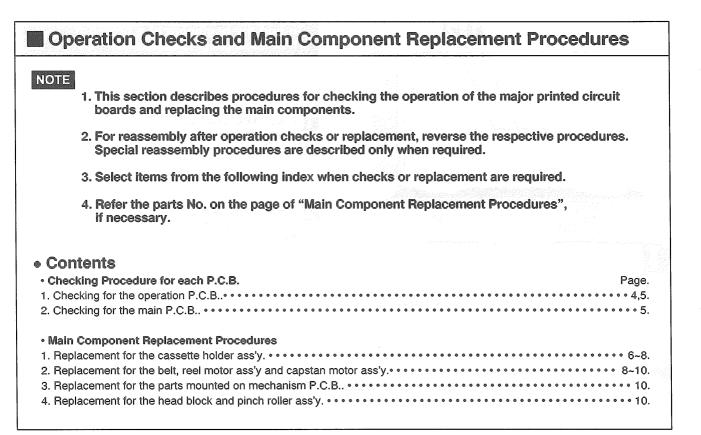
To skip to the next track or back to the beginning of the track you are currently listening to, perform only above step 2.

Notes

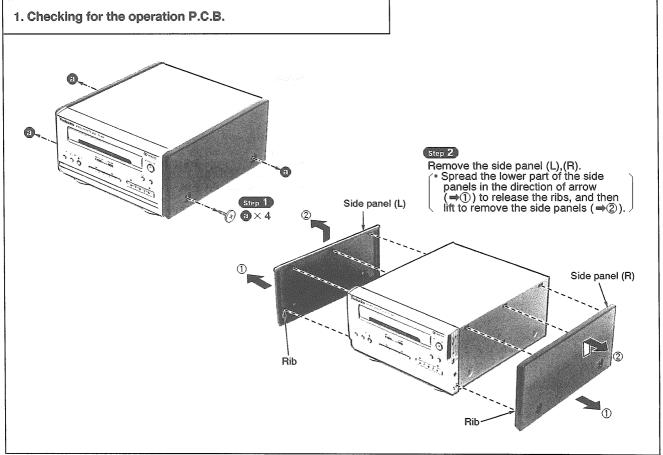
TPS is the function that searches for the silent passage in a tape program. So, it may sometimes fail to operate correctly in the following situations:

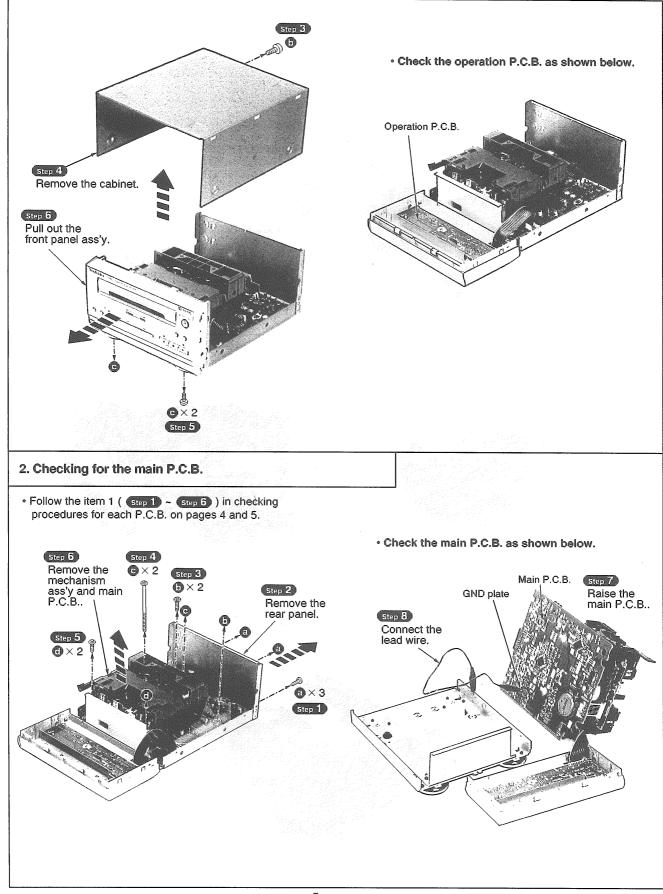
• When the interval between programs is less than 4 seconds

- •When there is a particular low-level passage in a program (for example, classical music)
- •When the program is less than 10 seconds, or when it is less than 10 seconds from the listening point to the beginning of the next tune
- When a tape recorded with fade-ins or fade-outs



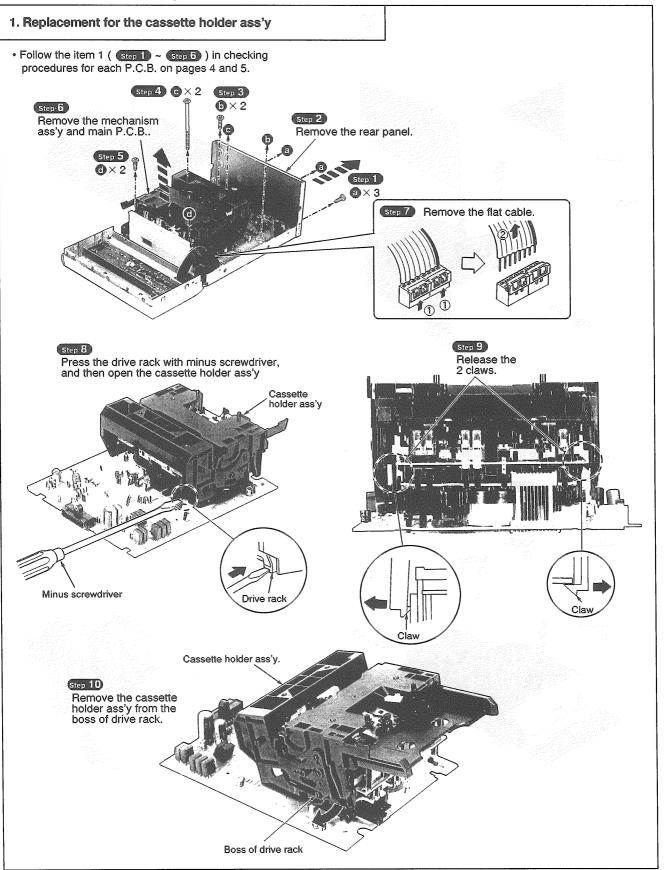
Checking Procedure for each P.C.B.



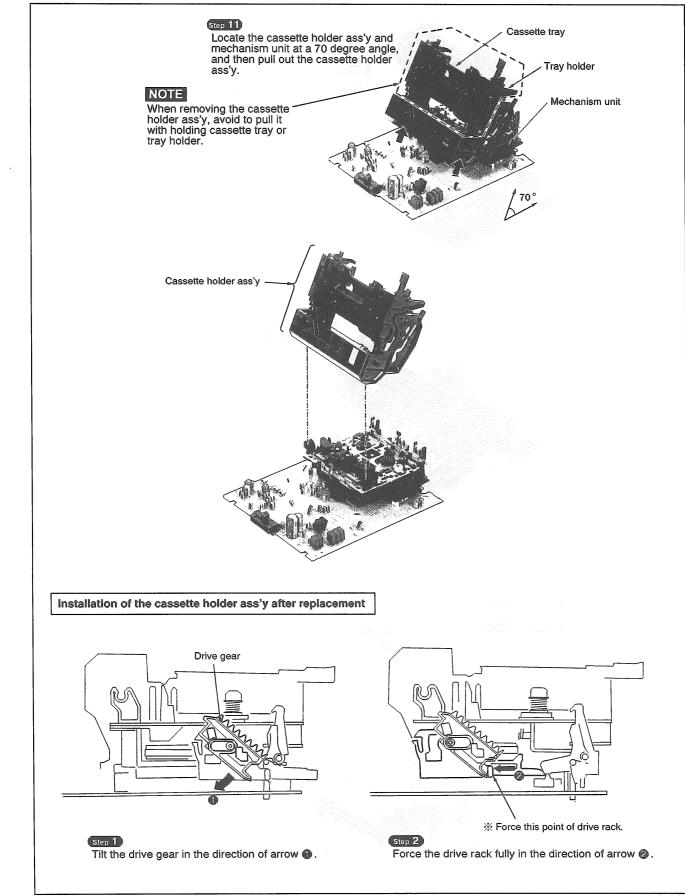


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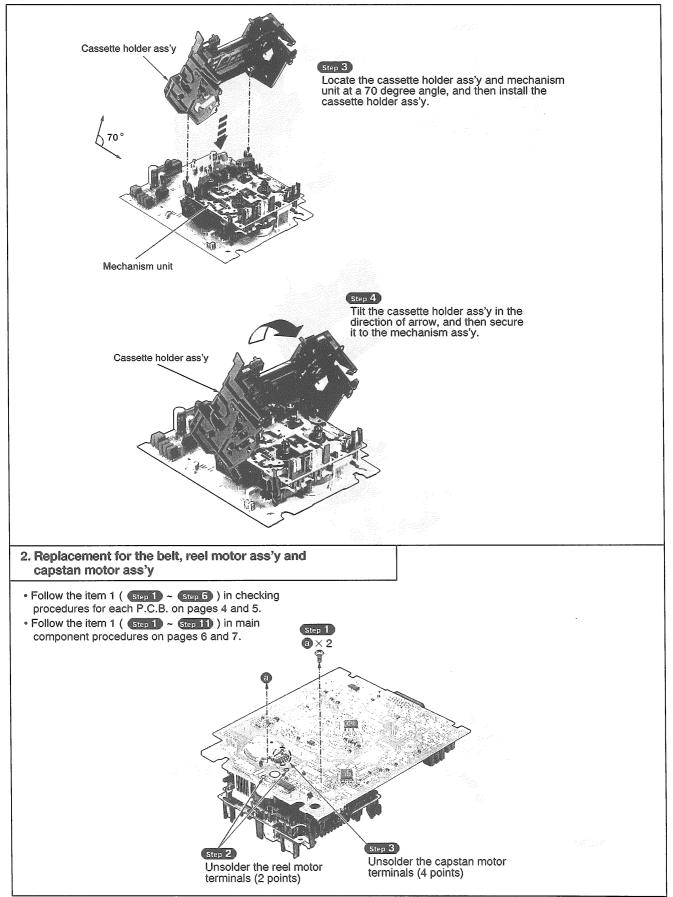
Main Component Replacement Procedures



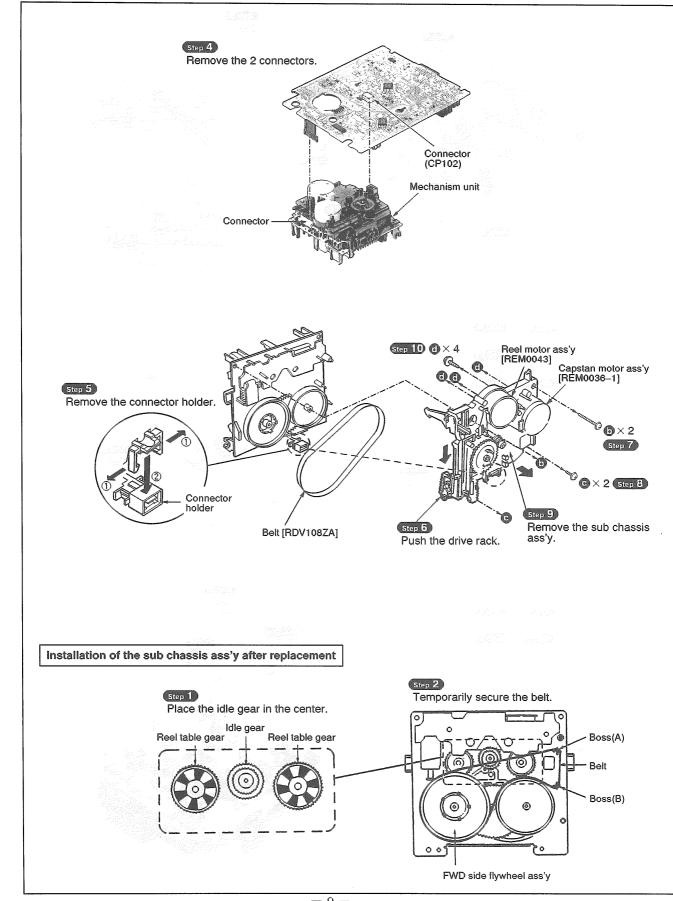
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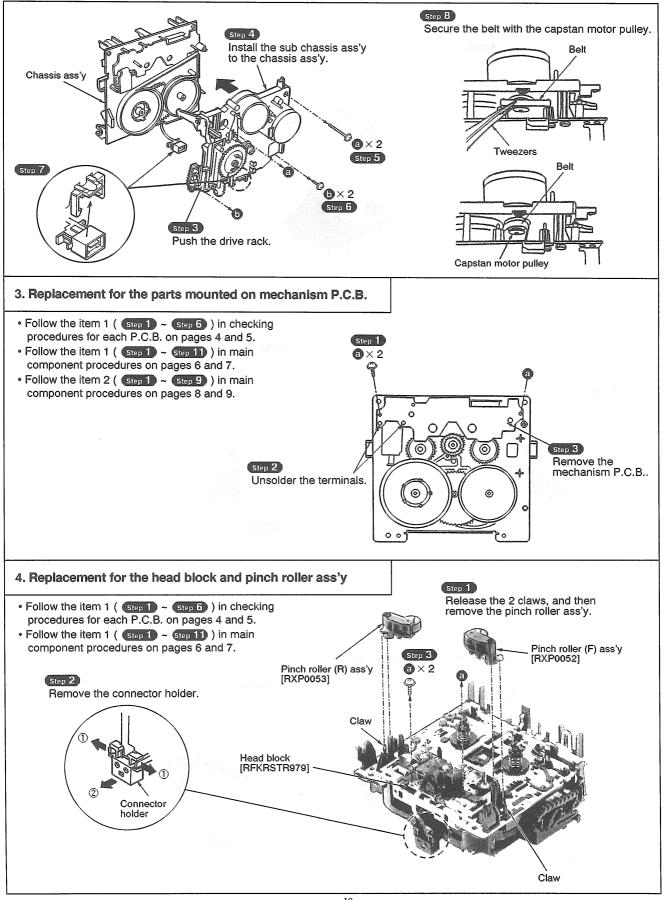
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- 8 -



- 9 -

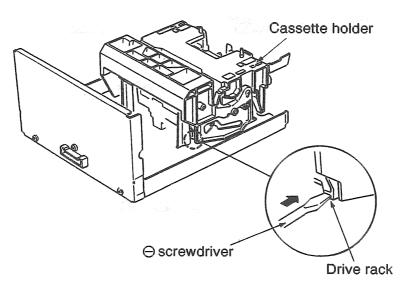


• Manually opening and closing the cassette holder assembly

• Follow the item 1 (Step 1 ~ Step 5) in checking procedures for each P.C.B. on pages 4 and 5.

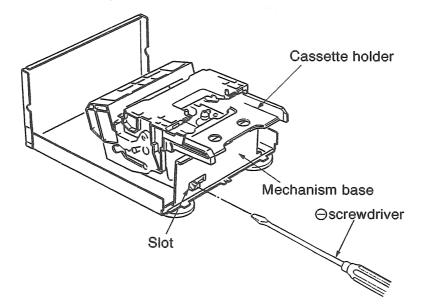
OPENING

Push the drive rack in the direction of the arrow with a \bigcirc screwdriver.



CLOSING

Push the drive rack back into position by inserting a \bigcirc screwdriver into the holes on the P.C.B.



Measurements and Adjustments

This unit RS-HD81 is designed to operate on power supplied from the Amplifier (SE-HD51 or SE-HD81) through Tuner (ST-HD51 or ST-HD81).

When connecting the unit to other system components, do not connect to the Amplifier (SE-HD81) directly. Be sure to connect this unit through the Tuner (ST-HD51 or ST-HD81).

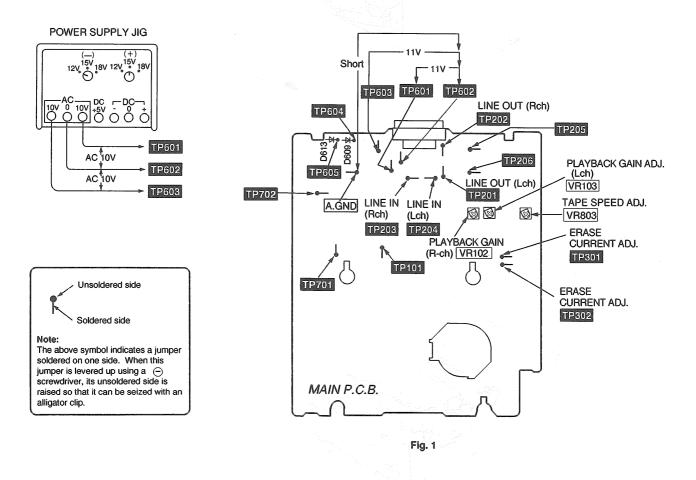
When operating the unit RS-HD81 alone for testing and servicing, without having power supplied from the Amplifier (SE-HD51 or SE-HD81) and Tuner (ST-HD51 or ST-HD81), use the following method.

To Supply Power Source

- 1. Short three sections the test points TP602, A. GND, and TP702
- 2. Apply 11 AC power to test points between 12601 and 12602 (GND), and 12603 and 12602 (GND). Note: When operated alone, this unit automatically enter the TEST mode, causing indicators to blink.

To Check Signals

Connect an oscilloscope or a built-in amplifier speaker between line output for Lch (TP201) and jumper (J118) A. GND, and line out for Rch (TP202) and jumper (J118) A. GND and check if the signals are outputting from this unit.



Measurement Condition

- Dolby NR switch; OFF
- Make sure heads are clean.

Make sure capstan and pressure roller are clean.

Judgeable room temperature 20 ± 5°C (68± 9°F)

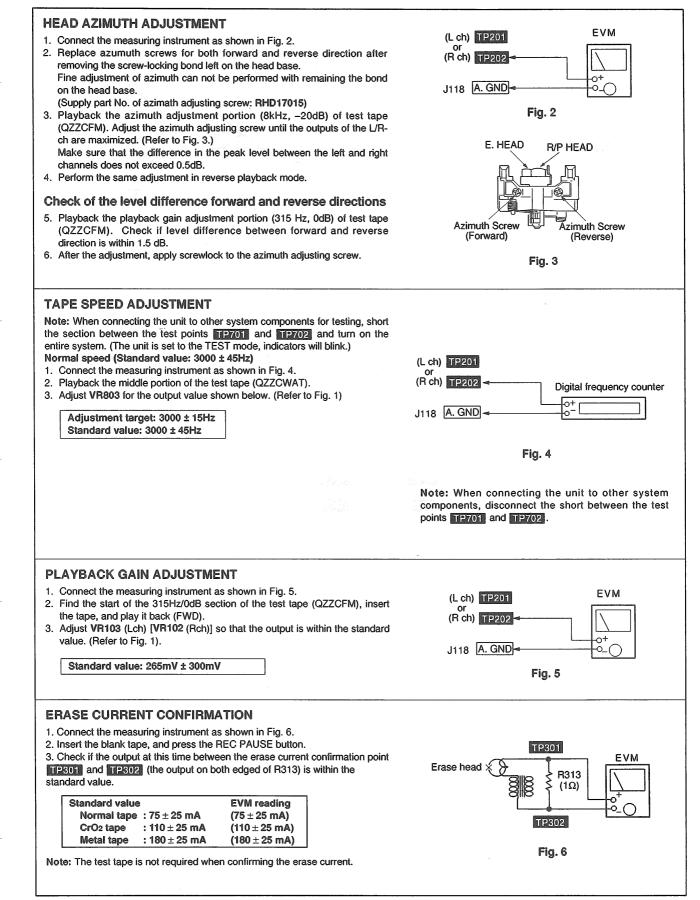
Measuring instrument

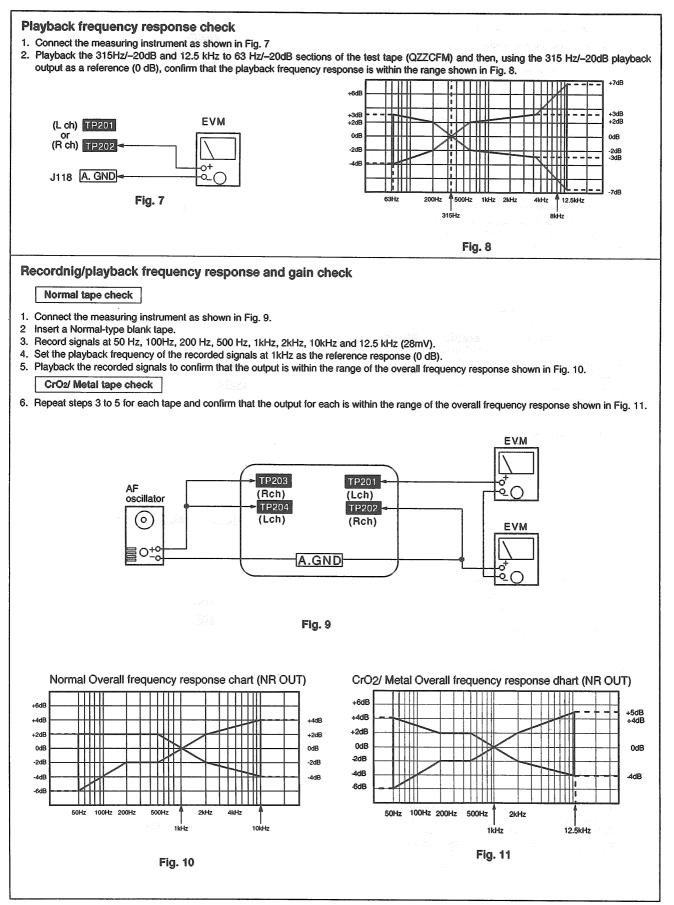
- EVM (Electronic Voltmeter)
- AF oscillator

Digital frequency counter

Test Tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Recording/ playback frequency response adjustment;
- QZZCFM (315Hz/0dB, 315Hz/-20dB, 12.5kHz~63Hz/-20dB) Normal blank tape CrO2 blank tape
- Metal blank tape





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STOP

@ @ (O

DOLBYNR

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Service Mode Function of Cassette Mechanism

This unit is equipped with a service mode function of cassette mechanism using the LED indicators [R. PLAY (\triangleleft), F. PLAY (\triangleright), REW ($\triangleleft \triangleleft$), FF($\triangleright \triangleright$)]. Use this function during maintenance to check faults of the items below.

Cassette tapes to be prepared

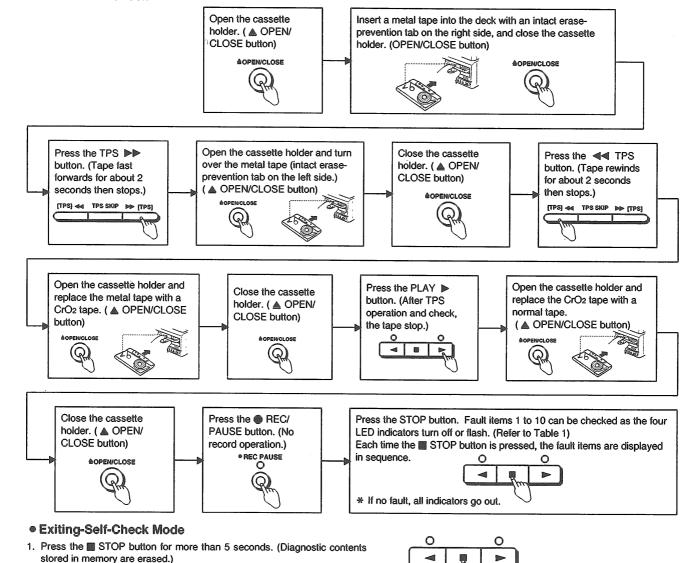
Metal tape: Recorded music tape with only one erase-prevention tab intact (use middle portion of the tape).

Normal tape: } Recorded music tape with both erase-prevention tabs intact (use middle CrO2 tape: } portion of the tape).

Selecting Service Mode

- 1. Turn on the power to the unit. (If RS-HD81 unit is removed from system, turn it on according to the procedure on page 12.)
- Check that no tape is inserted in the cassette deck.
 Press the DOLBY NR button for about 2 seconds, and keep pressing it, also press the STOP button for about 2 seconds. (Service mode cannot be selected with a tape inserted in the cassette deck.)
- 3. The LED indicator for REC PAUSE flashes, the service mode has been activated.

Mechanism Check



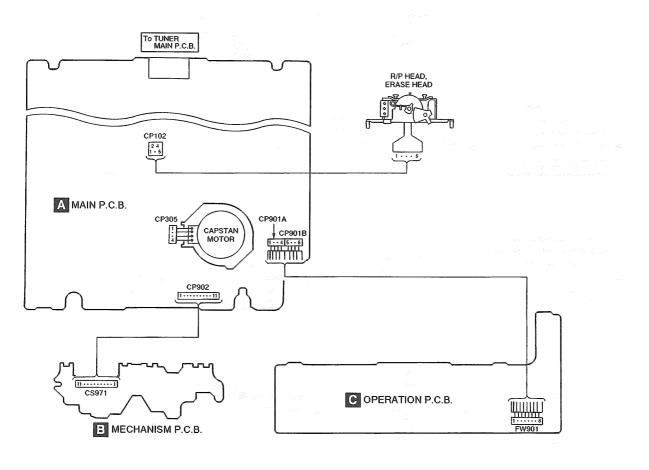
- Remove the cassette tape from the cassette holder.
- 3. Turn off the unit.

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No.	LED i	ndicator sta	atus (off/fla	shing)	- Fault location
INO.			44		
1.	-	.	— — , - , - , - , - , - , - , - , - , -	57 O . 68	MODE detect switch
2.	-	_	۲	_	REC prevention switch
3.	_	_	۲		Half detect switch
4.	_		_	_	Deck OPEN switch
5.	-		_		Deck CLOSE switch
6.	—			_	CrO2 tape detect switch
7.	_				Metal tape detect switch
8.	۲		_	-	Reel pulse detect system (Hall IC, etc.)
9.	۲	_	_		TPS operation
10.		-		_	Reel motor

Table 1: Service Mode Diagnostic Items

Wiring Connection Diagram



Notes:

"
 " : Flashing
 "--": off * If no fault, all indicators go out.

Schematic Diagram (Parts list on pages 28 ~ 30.)	
 This schematic diagram may be modified at any time with development of new technology. 	
	Page
	18~20
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C OPERATION CIRCUIT	

Notes:

- \$803: Cassette holder open detection switch in "off" position.
- S804: Cassette holder close detection switch in "off" position.
- S900: Stop (IIII) switch.
- S901: Dolby noise-reduction switch (DOLBY NR).
- S902: Rewind tape program sensor switch (**4** [TPS]).
- S903: Reverse-side playback switch (◀).
- \$904: TPS skip switch (TPS SKIP).
- S905: Forward-side playback switch (>).
- S906: Fast forward tape program sensor switch (▶▶ [TPS]).
- \$909: Rec pause switch (
 REC PAUSE).
- S910: Cassette holder open/ close switch (🎍 OPEN/ CLOSE).
- S911: Counter display switch (DISPLAY).
- S912: Counter reset switch (RESET).
- S915: Reverse-mode select switch (REV. MODE).
- S971: Mode switch in "off" position.
- \$972: Half switch in "off" position.
- \$973: ATS (CrO2) switch in "off" position.
- S974: Reverse rec. inhibit switch in "off" position.
- \$975: Forward rec. inhibit switch in "off" position.
- S976: ATS (Metal) switch in "off" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise. 1K=1,000 (Ω), 1M=1,000 (Ω)
- · Capacity are in micro-farads (µF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
 ().....Voltage values at record mode.
- For measurement us EVM.
- Voltage values and waveforms are measured as indicated in the schematic diagram when test points between TP602 and TP605, and between A. GND and TP602 are shorted.

Important safety notice:

Components identified by A mark have special characteristics important for safety.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

- Positive voltage line

Caution!

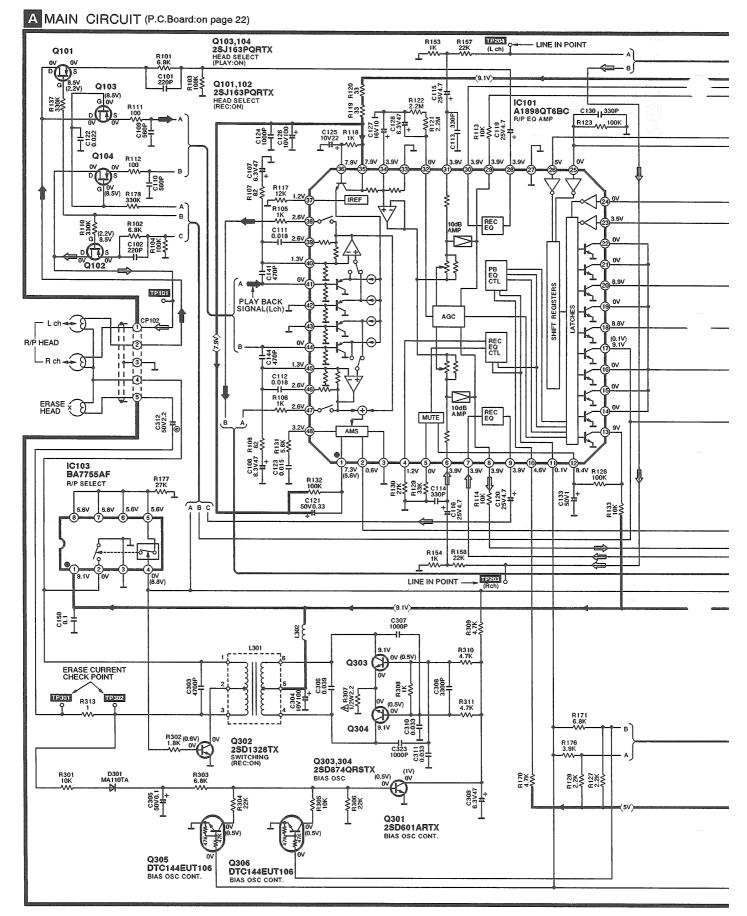
IC and LSI are sensitive to static electricity.

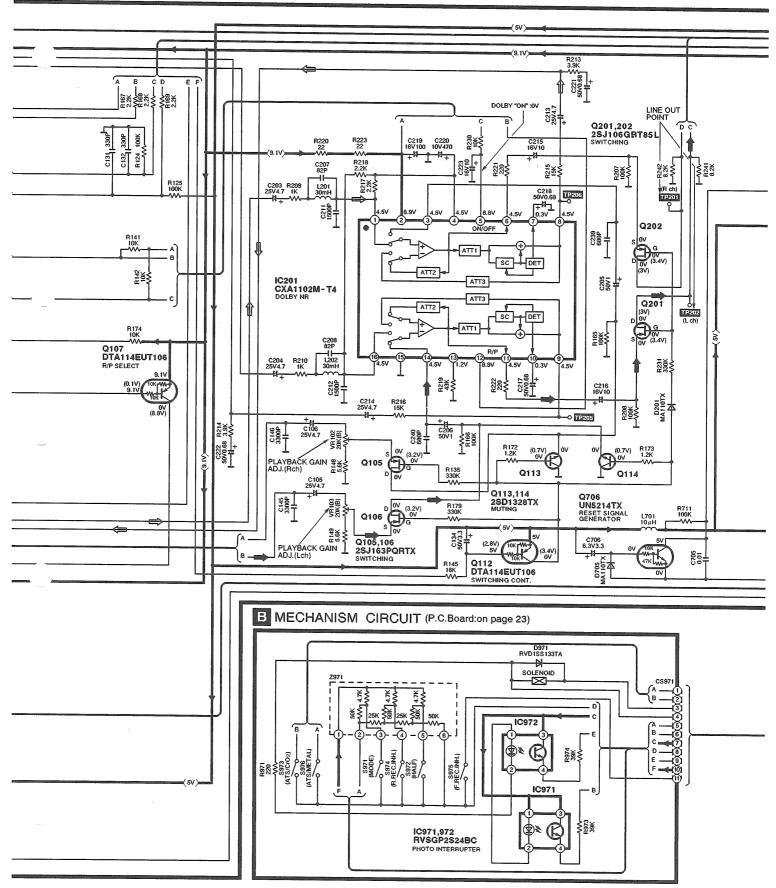
Secondary trouble can be prevented by taking care during repair.

· Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

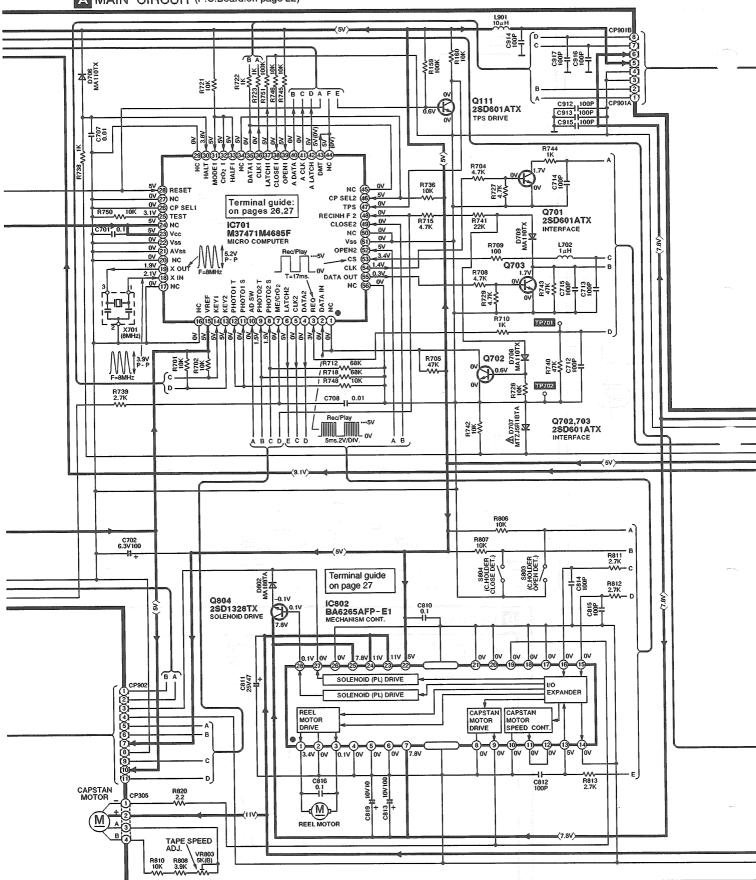
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.





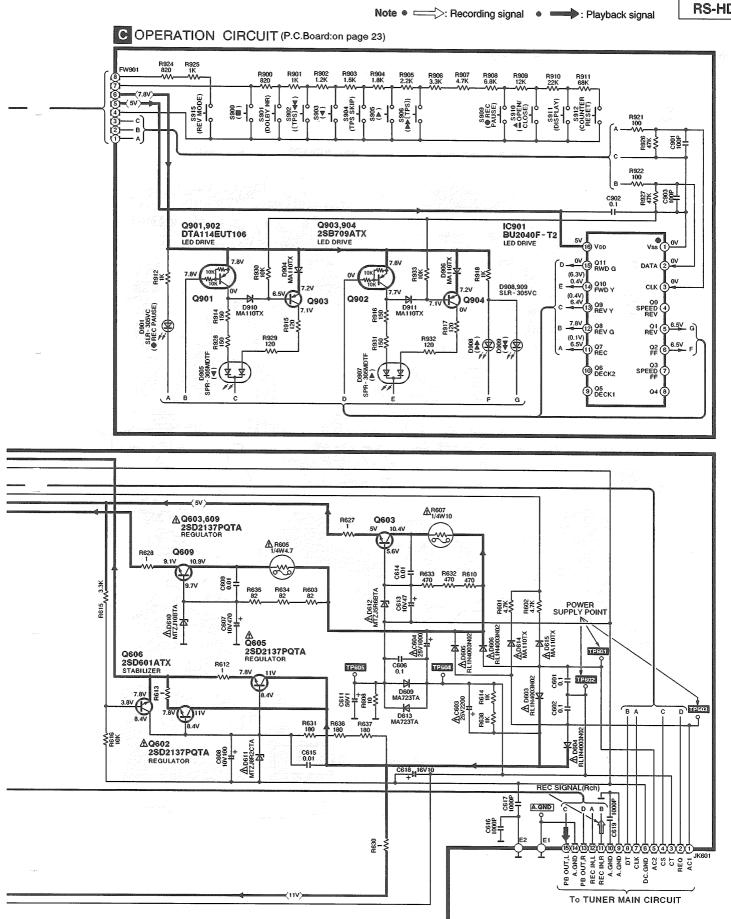
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RS-HD81



A MAIN CIRCUIT (P.C.Board:on page 22)

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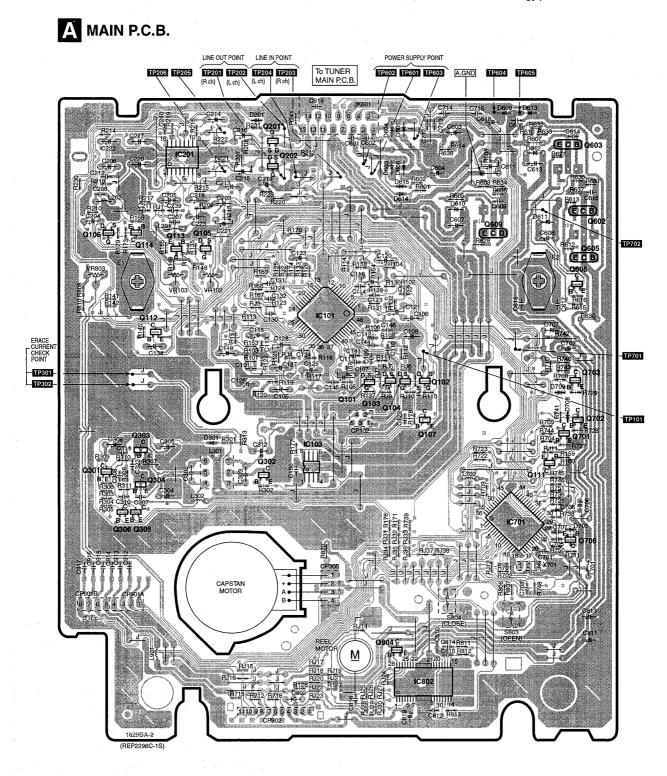


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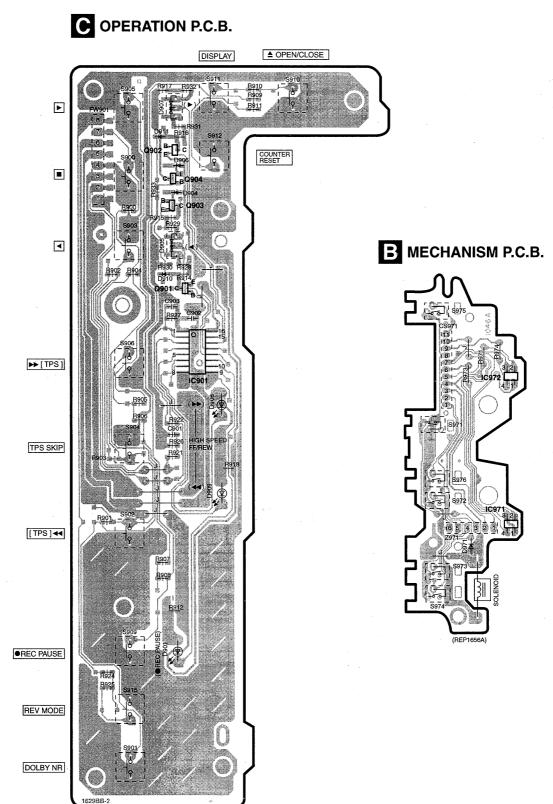
RS-HD81

Printed Circuit Board Diagram

(This printed circuit board diagram may be modified at any time with the development of new technology.)

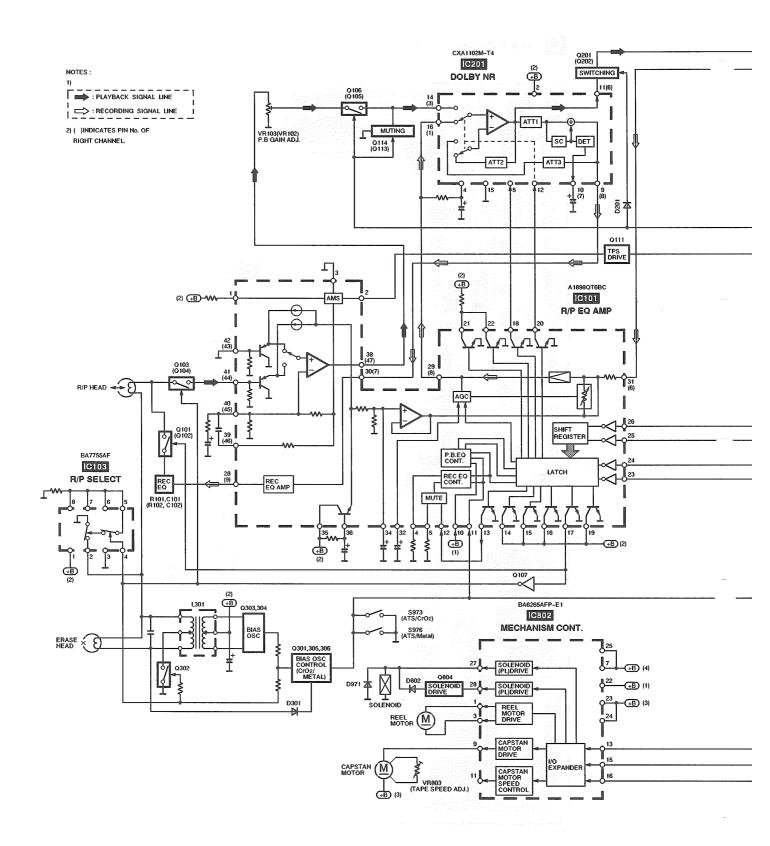


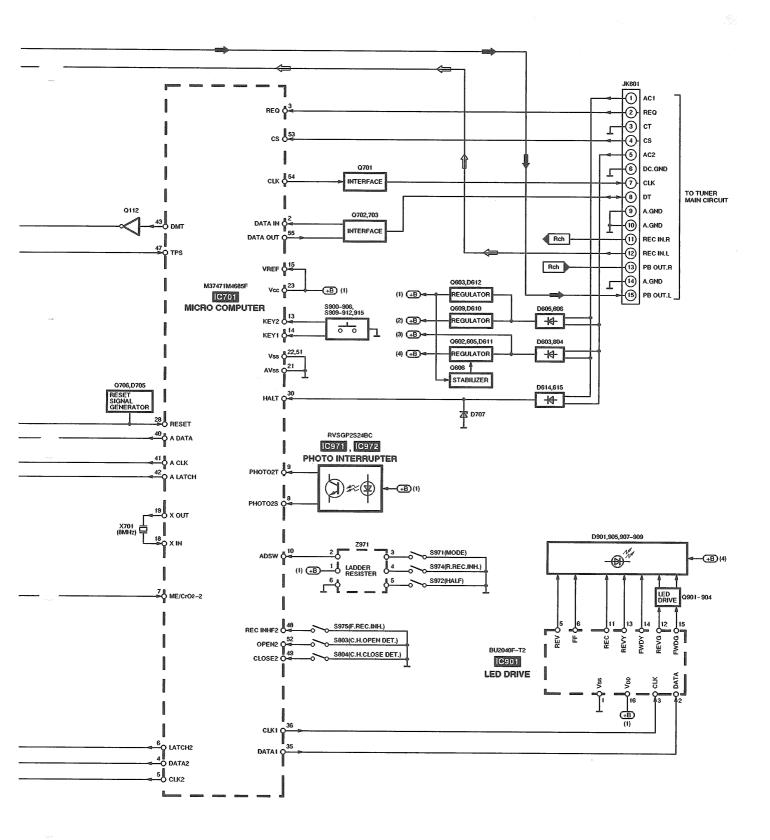
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(REP2296B-2S)

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Terminal Function of IC's

● IC701 (M37471M4685F): MICRO COMPUTER

Pin No.	Mark	vo	Function		
1	NC	-	Not used		
2	DATA IN	I	Serial data input		
3	REQ	I	Request signal input		
4	DATA2	0	Mechanism control data output		
5	CLK2	0	Mechanism control clock output		
6	LATCH2	0	Mechanism control latch signal output		
7	ME/CrO2-2	1	Tape select switch input		
8	PHOTO2_S	I	Reverse side reel pulse input		
9	PHOTO2_T	ł	Forward side reel pulse input		
10	AD_SW	Ĺ	Mechanism switch signal input		
11	PHOTO1_S	I	Reverse side reel pulse input		
12	PHOTO1_T	I	Forward side reel pulse input		
13	KEY2	1			
14	KEY1	I	Key switch signal input		
15	VREF	I	Reference voltage input		
16	NC	-	Not used		
17	NC	-	Not used		
18	XIN	I	Clock input		
19	XOUT	0	Clock output		
20	NC	-	Not used		
21	AVSS		Connect to GND		
22	VSS	-	Connect to GND		
23	VCC		Power supply (+5V)		
24	NC	-	Not used		
25	TEST	I	Test mode select (Not used)		
26	CP_SEL1	-	Not used		
27	NC	_	Not used		
28	RESET	1	Reset signal input		

Pin No.	Mark	1/0	Function
29	NC	-	Not used
30	HALT	I	AC power source detect signal input
31	MODE1	I	Mode detect switch signal input
32	CrO2-1	I	Tape select switch signal input
33	HALF1	1	Half detect switch signal input
34	NC	-	Not used
35	DATA1	0	Control data output
36	CLK1	0	Control clock output
37	LATCH1	0	Mechanism control latch signal output
38	CLOSE1	1	Cassette holder close detect switch signal input
39	OPEN1	I	Cassette holder open detect switch signal input
40	A DATA	0	Serial data output
41	A CLK	0	Serial clock output
42	A LATCH	0	Latch signal output
43	DMT	0	Muting control signal output
44	NC	-	Not used
45	NC	-	Not used
46	CP_SEL2	-	Not used
47	TPS	I	TPS signal input
48	RECINH F_2	I	Record prevention tab detect switch signal input
49	CLOSE2	1	Cassette holder close detect switch signal input
50	NC	-	Not used
51	VSS	-	GND terminal
52	OPEN2	1	Cassette holder open detect switch signal input
53	CS	I	Serial data control signal input
54	CLK	0	Serial clock output
55	DATA OUT	0	Serial data output
56	NC	-	Not used

• IC802 (BA6265AFP-E1): MECHANISM CONTROL

Pin No.	Mark	vo	Function				
1	RM(−)	0	Reel motor drive (-) output terminal				
2	RNF	-	GND terminal				
3	RM(+)	0	Reel motor drive (+) output terminal				
4	NC						
5	NC	-	Not used, connected to GND				
6	NC						
7	VCC2	1	Power supply terminal				
8	CPM GND	-	GND terminal				
9	СРМ	0	Capstan motor drive output terminal				
10	NC	-	Not used, connected to pin11				
11	CPM SW	0	Capstan speed select SW output terminal				
12	NC	-	Not used, connected to pin 11				
13	LATCH	I	I/O expander latch signal input terminal				
14	S0	0	I/O expander serial output terminal				

Pin No.	Mark	1/0	Function
15	DATA	I	I/O expander data signal input terminal
16	CLK	1	I/O expander clock signal input terminal
17	NC	-	
18	NC	-	Not used, connected to GND
19	NC	-	Not used, connected to pin 9
20	GND	-	GND terminal
21	GND	_	GND terminal
22	VCC1	1	Power supply terminal
23	VCC3	1	Power supply terminal
24	VCC3	I	Power supply terminal
25	NC	-	Not used, connected to power supply
26	GND	-	GND terminal
27	PL 15V	0	Plunger output terminal(15V)
28	PL 7.5V	0	Plunger output terminal(7.5V)

Type Illustrations of IC's Transistors and Diodes

		· ·			
BA7755AF	CXA1102M-T4 BU2040F-T2	BA6265AFP-E1	A1898QT6BC	M37471M4685F	RVSGP2S24BC
1 4 8 5	16 1 1 8	28 1 1 7 8 14	25 24 13 37 48 1 12	44 45 56 1 28 17 16	
DTA114EUT106 DTC114EUT106		2SB709ATX	2SJ106GBT85L 2SJ163PQRTX	2SD874QRSTX	2SD2137PQTA
BCE	B E C	2SD1328TX 2SD601ARTX 2SD601ATX UN5214TX	s of the second se	BCE	B C E
RL1N4003N02 Ca Cathode Anode	MA188TA Ca Cathode Anode	MA723TA RVD1SS133TA Ca Cathode	Ca Cathode A Anode	MTZJ10BTA MTZJ5R1BTA MTZJ5R6BTA MTZJ8R2CTA	MA110TX Cathode Anode A
SLR-305VC	SPR-305MDTF				
Anode Cathode A	Anode A Cathode Anode Ca A				

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Replacement Parts List

Notes: * Important safety notice:

Components identified by ▲ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.

*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)

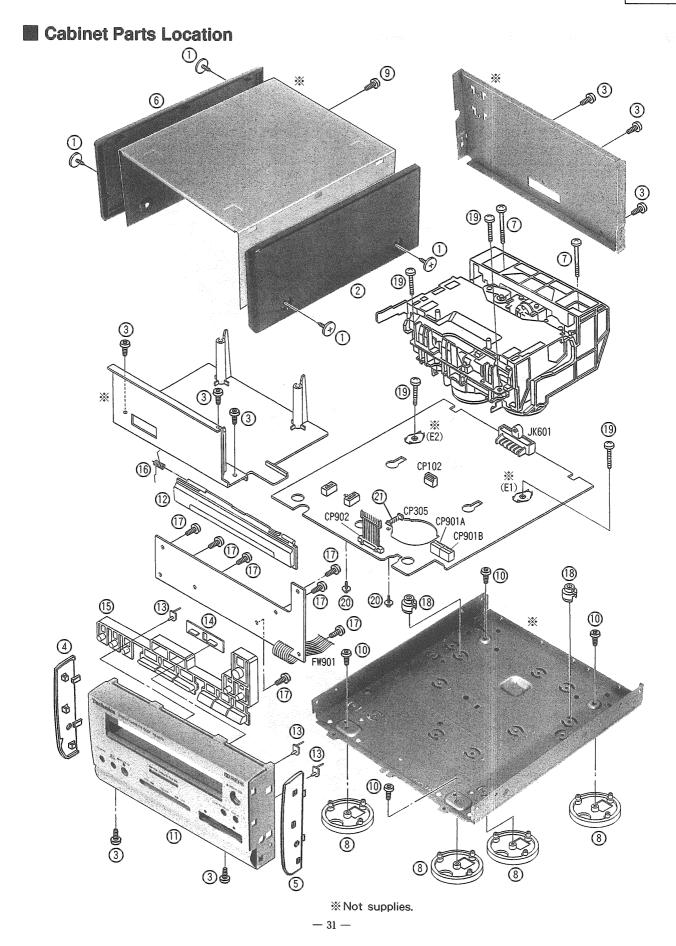
*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

					C150	ECUV1E104ZFN		0.10	1	
					C203,04	ECEA1EKA4R7B	25V	4. 7U	2	
					C205,06	ECEA1HKA010B		10	2	
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	C207,08	ECUV1H820JCN	50V	82P	2	
					C211, 12	ECUV1H152KBN		1500P	2	
1	RHD30073-K	SCREW	4		C213, 14	ECEA1EKA4R7B	25V	4. 7U	2	
2		SIDE PANEL (R)	1		C215, 16	RCE1CKA100BG	167	100	2	
3	XTBS3+8JFZ1	SCREW	8		C217,18	ECEA1HKAR68B	50V	0.68U	2	
4	RGK0810-N3	SIDE ORNAMENT(L)	1		C219	ECEA1CKA101B	16V	1000	1	
5	RGK0811-N3	SIDE ORNAMENT (R)	1		C220	ECA1AM471B	16V	4700	1	
6	RGK0808-1M	SIDE PANEL(L)	1	addrawin 64	C221,22	ECEA1HKAR68B	50V	0.68U	2	Station and Astron
7	RHD30069	SCREW	2		C223	RCE1CKA100BG	16V	100	1	
8	RKA0076-N	FOOT	4		C239, 40	ECUV1H681KBN	50V	680P	2	
9	XTBS3+10JFZ1	SCREW	1		C303	ECQP2E472JZT	250V	4700P	1	
10	XTB3+6G	SCREW	4		C304	RCE1AKA101BG	107	1000	1	
11	RFKGRSHD81-S	FRONT PANEL ASS'Y	1		C305	ECEA1HKA0R1B	50V	0.10	1	1
12	RFKRSHD7-N	CASSETTE DOOR ASS'Y	1		C306	ECQB1H393JF3	50V	0.0390	1	
13	RGL0331-Q	PANEL LIGHT (A)	3		C307	ECUV1H102KBN	50V	1000P	1	
14	RGL0332-Q	PANEL LIGHT (B)	1	75a, 5	C308	ECUV1H332KBN	50V	3300P	1	
15	RGU1391-S	BUTTON	1	ter and	C309	ECEA0JKA470B	6.3V	47UF	1	
16	RMB0478	CASSETTE DOOR SPRING	1		C310, 11	ECUV1E333KBN	25V	0.033U	2	
17	XTBS26+8J	SCREW	7		C312	ECEA1HKN2R2B	50V	2.2U	1	1
18	SHE170-2	P.C.B. SUPPORT	2		C323	ECUV1H102KBN	507	1000P	1	
19	XTB3+12JFZ	SCREW	4		C601,02	ECUV1E104ZFN	25V	0. 1U	2	
20	XTW2+6S	SCREW	2		A C603	ECA1EM222E	25V	2200U	1	1
21	RJR0113	CONNECTOR (4P) (CP305)	1		A C604	ECA1EM102B	25V	1000U	1	
206	RFKRSTR979	HEAD BLOCK ASS' Y	1		C606	ECUV1E104ZFN	25V	0. 1U	1	
206-1	RHD17015	AZIMUTH SCREW	2		C607	ECA1AM471B	10V	470UF	1	
206-2	RMB0352-1	SPRING	1		C608	RCE1AKA101BG	107	1000	1	
206-3	RMQ0360A	CONNECTOR HOLDER	1		C609	ECUV1H103KBN	50V	0.010	1	
207	RDV108ZA	BELT	1		C611	ECEA1HKA010B	50V	10	1	
208	RDK0019A-1J	MAIN GEAR	1		C613	RCE1AKA470BG		47U	1	
220	RXG0036	REEL TABLE GEAR	2		C614, 15	ECUV1H103KBN		0.01U	2	
221	RXL0106	IDLER LEVER	1		C616, 17	ECUV1H102KBN		1000P	2	
222	RXP0052	PINCH ROLLER (F) ASS'Y	1		C618	RCE1CKA100BG		100	1-1	1
222-1	RMB0259	SPRING	1		C619	ECUV1H102KBN		1000P		
223	RXP0053	PINCH ROLLER (R) ASS' Y	1		C701	ECUV1E104ZFN		0.10	1	
223-1	RMB0260	SPRING	1		C702	ECEA0JKA101B		1000		
224	RDG0206-1	GEAR	1		C705	ECUV1H103KBN		0.01U	$\frac{1}{1}$	
225	RDG0209A	GEAR	- <u>i</u>		C706	ECST0JY335RR		3.30		
226	REM0036-1	CAPSTAN MOTOR ASS' Y			C707.08	ECUV1H103KBN		0.010	2	,
227	REMOD43	REEL MOTOR ASS' Y	1		C712-15	ECUVIHIOIKON		100P	1-	
228	RHD26013	SCREW	4		C810	ECUVIAIOTACN		0.10	14	
229	RMQ0537	DRIVE GEAR	4		C810 C811	ECEA1EKA470B			H.	
LLJ	1000001	DRIVE GEAR				ECEATERA4708	250	47U	1	
						J			1.	

Part Name & DescriptionPcs Part No. Remarks Ref.No. 231 RXG0037 GEAR ASS' Y 1 232 RMQ0536 DRIVE RACK CASSETTE HOLDER RYF0334B-K3 233 RMC0310 SPRING 233-1 2 233-2 RMB0397 SPRING 1 239 XTW2+6S SCREW 2 2 2 REEL TABLE 240 RXR0018 241 XTW2+5L SCREW C101,02 ECUV1H221KBN 2 50V 220P C105,06 ECEA1EKA4R7B 25V 4.7U C107,08 ECEA0JKA470B 6.3V 47UF 2 C109, 10 ECUV1H561KBN 50V 560P 2 C111, 12 ECUV1E183KBN 25V 0.0180 2 C113,14 ECUV1H331KBN 50V 330P 2 2 C115.16 ECEA1EKA4R7B 25V 4.7U C119, 20 ECEA1EKA4R7B 25V 4.70 2 1 C121 ECEA1HKAR33B 50V 0.33UF C122 ECUV1E223KBN 25V 0.022U 1 C123 ECUVIE153KBN 25V 0.0150 1 C124 ECUV1H102KBN 50V 1000P 1 C125 ECEA1AKA220B 10V 2211 1 C126 RCE1AKA101BG 10V 1000 1 C127 RCE1CKA100BG 16V 100 1 C128 ECEA0JKA470B 6.3V 47UF 1 C130-32 ECUV1H331KBN 50V 330P 3 C133 ECEA1HKA010B 50V 10 1 C134 RCE1HKA3R3BG 50V 3. <u>3</u>U 1 C141 ECUV1H471KBN 50V 470P 1 1 C144 ECUV1H471KBN 50V 470P C145,46 ECUV1H332KBN 50V 3300P 2

<u>Ref.No.</u> C812	Part No.	Part Name & Description	Pcs Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C812 C813	ECUV1H101KCN RCE1AKA101BG	50V 100P 10V 100U		Q901,02	DTA114EUT106		2	
			1	Q903, 04	2SB709ATX	TRANSISTOR	2	
C814, 15 C816	ECUV1H101KCN ECUV1E104ZFN	50V 100P	2					
C819		25V 0.1U	1	R101,02	ERJ6GEYJ682V		2	
C901	ECST1AX106RR	10V 10U	1	R103,04	ERJ6GEYJ104V		2	
C901		50V 100P	1	R105,06	ERJ6GEYJ102Z		2	
	ECUV1E104ZFN	25V 0.1U	1	R107,08	ERJ6GEYJ820V		2	
C903	ECUV1H101KCN	50V 100P	1	R110	ERJ6GEYJ334V		_1	
C912-17	ECUV1H101KCN	50V 100P	6	R111,12	ERJ6GEYJ101Z	1/10W 100	2	
				R113,14	ERJ6GEYJ103V	1/10W 10K	2	
CP102	RJS2A0205-2S	CONNECTOR (5P)	1	R117	ERJ6GEYJ123V	1/10W 12K	1	
CP901A	RJS1A1704	CONNECTOR (4P)	1	R118	ERJ6GEYJ102Z	1/10W 1K	1	
CP901B	RJS1A1704	CONNECTOR (4P)	1	R119,20	ERJ6GEYJ330V	1/10W 33	2	
CP902	RJT071H11A	CONNECTOR (11P)	1	R121,22	ERJ6GEYJ225V		2	
				R123-26	ERJ6GEYJ104V		4	
CS971	RJU071H11M	CONNECTOR (11P)	1	R127, 28	ERJ6GEYJ222V		2	
				R129	ERJ6GEYJ333V		1	
D201	MA110TX	DIODE	1	R130	ERJ6GEYJ273V		1	
D301		DIODE	1	R131	ERJ6GEYJ562V		1	
1 D603-06		DIODE	4					
D609	MA723TA	DIODE	1	R132	ERJ6GEYJ104V			
			1	R133	ERJ6GEYJ103V		1	
1 D610		DIODE	1	R135	ERJ6GEYJ334V		1	
A D611		DIODE	1	R137	ERJ6GEYJ334V		1	
1 D612		DIODE	1	R141, 42	ERJ6GEYJ103V		2	
D613		DIODE	1	R145	ERJ6GEYJ183V	1/10W 18K	1	
🚹 D614, 15		DIODE	2	R148,49	ERJ6GEYJ562V	1/10W 5.6K	2	
D705,06	MA110TX	DIODE	2	R153,54	ERJ6GEYJ102Z	1/10W 1K	2	
∱ D707	MTZJ5R1BTA	DIODE	1	R157,58	ERJ6GEYJ223V		2	
D708,09	MA11OTX	DIODE	2	R159	ERJ6GEYJ104V		1	· · · · · · · · · · · · · · · · · · ·
D802	MA188TA	DIODE	1	R160	ERJ6GEYJ103V		1	
D901	SLR-305VC	L. E. D.	1	R165,66	ERJ6GEYJ104V		2	
D904		DIODE	1	R167-69	ERJ6GEYJ222V		3	
D905	SPR-305MDTF	L.E.D.		R170	ERJ6GEYJ472V		3	
D906		DIODE		R170	ERJ6GEYJ682V		1	
D907	SPR-305MDTF	L.E.D.	1	1			1	
				R172,73	ERJ6GEYJ122V		2	
D908, 09	SLR-305VC	L.E.D.	2	R174	ERJ6GEYJ103V		1	
D910,11		DIODE	2	R176	ERJ6GEYJ392V		1	
D971	RVD1SS133TA	DIODE	1	R177	ERJ6GEYJ273V	1/10W 27K	1	
				R178,79	ERJ6GEYJ334V	1/10W 330K	2	
FW901	REZ0885	FLAT CABLE(8P)	1	R207,08	ERJ6GEYJ104V	1/10W 100K	2	
				R209,10	ERJ6GEYJ102Z	1/10W 1K	2	
IC101	A1898QT6BC	IC	1	R213,14	ERJ6GEYJ392V		2	
IC103	BA7755AF	IC	1	R215,16	ERJ6GEYJ153V		2	
1C201	CXA1102M-T4	IC	1	R217,18	ERJ6GEYJ222V		2	· · · · · · · · · · · · · · · · · · ·
IC701	M37471M4685F	IC	1	R219	ERJ6GEYJ433V		1	
1C802	BA6265AFP-E1	IC	1	R220	ERJ6GEYJ220V		1	
10001	BU2040F-T2	IC	1	1	ERJ6GEYJ221V		2	
10301	RVSGP2S24BC	IC	2	R221, 22				
103/1,12	RVJUFZJZ4DU	10	<u> </u>	R223	ERJ6GEYJ220V		1	
	D. 170051445			R230	ERJ6GEYJ103V		1	
JK601	RJT065K15	SYSTEM CONNECTOR (15P)	1	R231	ERJ6GEYJ334V		_1	
				R241,42	ERJ6GEYJ822V		2	
L201,02		COIL	2	R301	ERJ6GEYJ103V	1/10W 10K	1	
L301		COIL	1	R302	ERJ6GEYJ182V	1/10W 1.8K	1	
	RLQZB470KT-D	COIL	1	R303	ERJ6GEYJ682V	1/10W 6.8K	1	
L701		COIL	1	R304	ERJ6GEYJ223V		1	
L702	RLQZP1R0KT-Y	COIL	1	R305	ERJ6GEYJ103V		1	
L901	~	COIL	1	R306	ERJ6GEYJ223V		t	
				A R300	ERDS1FJ2R2	1/2W 2.2	1	
Q101-06	2SJ163PQRTX	TRANSISTOR	6		ERJ6GEYJ102Z		1	
Q107	DTA114EUT106		1	R308 R309-11			<u>.</u>	
Q111	2SD601ATX				ERJ6GEYJ472V		3	
		TRANSISTOR	1	R313	ERJ6GEYJ1R0V		1	
Q112	DTA114EUT106		1	R601,02	ERJ6GEYJ472V		2	
Q113, 14	2SD1328TX	TRANSISTOR	2	R603	ERJ6GEYJ820V		1	
Q201,02	2SJ106GBT85L		2	A R605	ERD2FCJ4R7	1/4W 4.7	1	
Q301		TRANSISTOR	1	<u>∕</u> № R607	ERD2FCG100	1/4W 10	1	
Q302	2SD1328TX	TRANSISTOR	1	R608	ERJ6GEYJ100V	1/10₩ 10	1	
Q303, 04	2SD874QRSTX	TRANSISTOR	2	R610	ERJ6GEYJ471V	1/10W 470	1	······
Q305,06	DTC144EUT106	TRANSISTOR	2	R612,13	ERJ6GEYJ1R0V	1/10₩ 1	2	
A Q602, 03	2SD2137PQTA	TRANSISTOR	2	R614	ERJ6GEYJ102Z		1	
<u>∧</u> Q605		TRANSISTOR	1	R615	ERJ6GEYJ332V		1	
Q606	2SD601ATX	TRANSISTOR	1	R616	ERJ6GEYJ103V			
1 Q609		TRANSISTOR	1	R627,28			-	
Q701-03	2SD601ATX	TRANSISTOR	3		ERJ6GEYJ1ROV		2	
A101-03	UN5214TX			R630	ERDS2TJ1R0T	1/4₩ 1	1	
0706	100/02/14/1	TRANSISTOR	1	R631	ERJ6GEYJ181V		1	
Q706		TRANCISTOR	•					
Q706 Q804	2SD1328TX	TRANSISTOR	1	R632,33	ERJ6GEYJ471V	1/10W 470	2	

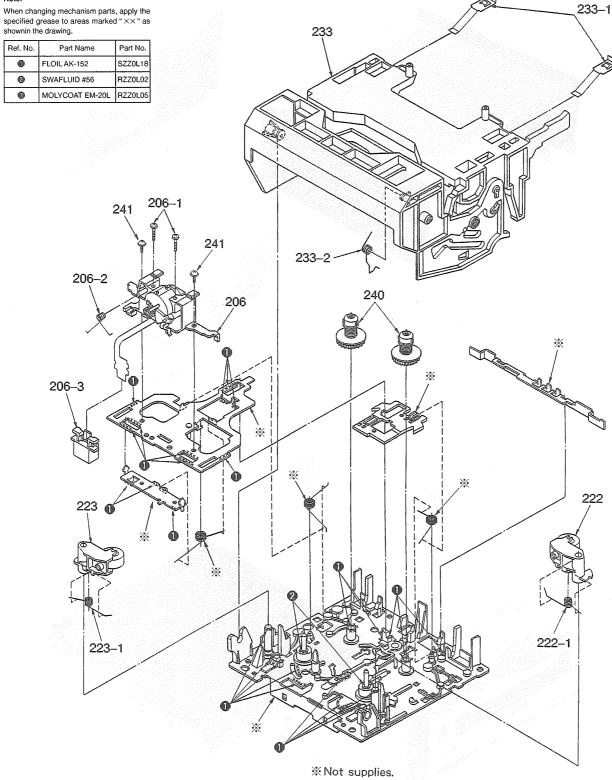
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Ref.No.	Part No.	Part Name & Description	Pc.s	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
the second s	ERJ6GEYJ820V		2	Nomer ne	SA1	QZZCFM	TEST TAPE	1	
	ERJ6GEYJ181V		2		SA2	QZZCWAT	TEST TAPE	1	
	ERJ6GEYJ102Z		1		SA3	SZZOL18	FLOIL AK-152	1	
	ERJ6GEYJ103V		2		SA4	RZZOLO2	SWAFLUID #56	1	1
	ERJ6GEYJ472V		1		SA5	RZZOLOS	NOLYCOAT EM-20L	1	
R705	ERJ6GEYJ473V		1					<u> </u>	-
R708	ERJ6GEYJ472V		1		VR102_03	EVNDXAA00B24	V R	2	
R709	ERJ6GEYJ101Z		1			EVNDXAA00B53			
R710	ERJ6GEYJ102Z		-1		11000	LINDAAROODSO		+ ·	· · · · · · · · · · · · · · · · · · ·
R711	ERJ6GEYJ104V		-1		X701	EF0EC8004T4	OSCILLATOR	1	
R712	ERJ6GEYJ683V		-1			EFUEC000414	OSCIELATOR	⊢-'	
R712 R715	ERJ6GEYJ472V		-'		Z971	EVOLET JUCCAN	COMBINATION PARTS	Η,	
R718	ERJ6GEYJ683V		-1		2311	EXDFUESO0STV	CONDINATION PARTS	-	
R721	ERJ6GEYJ103V		-1						
	ERJ6GEYJ102Z		2						
	ERJ6GEYJ472V		-1					-	
					l				
R728	ERJ6GEYJ103V		1		L			-	
R729	ERJ6GEYJ472V		1		I				
R736	ERJ6GEYJ103V		1						
R738	ERJ6GEYJ102Z		1					-	
R739	ERJ6GEYJ272V		-1					⊢	
R740	ERJ6GEYJ473V		-1		I			 	<u> </u>
R741	ERJ6GEYJ223V		1					+	
R742	ERJ6GEYJ103V		_1			ļ			
R743	ERJ6GEYJ473V		1						
R744	ERJ6GEYJ102Z		_1					-	
R745, 46	ERJ6GEYJ103V		2		L				+
R748	ERJ6GEYJ103V		1		L	ļ		-	
R750	ERJ6GEYJ103V		1					-	
R751	ERJ6GEYJ104V		1						
R806,07	ERJ6GEYJ103V		2					_	
R808	ERJ6GEYJ392V		1						
R810	ERJ6GEYJ103V		1					-	
R811-13	ERJ6GEYJ272V		3					ļ	
R820	ERDS2FJ2R2	1/4W 2.2	1					_	
R900	ERJ6GEYJ821V		1						
R901	ERJ6GEYJ102Z		1						
R902	ERJ6GEYJ122V		1					ļ	
R903	ERJ6GEYJ152V		1					-	
R904	ERJ6GEYJ182V		1					┢	
R905	ERJ6GEYJ222V		1					+-	
R906	ERJ6GEYJ332V		1						
R907 R908	ERJ6GEYJ472V		1						
R908 R909	ERJ6GEYJ682V ERJ6GEYJ123V		1						
R910	ERJ6GEYJ223V		1					+	
R910	ERJ6GEYJ223V ERJ6GEYJ683V		1		I				
R912	ERJ6GEYJ102Z		1		·				
R914	ERJ6GEYJ151V						· · · · · · · · · · · · · · · · · · ·	-	
R914 R915	ERJ6GEYJ121V		1						
R915 R916	ERJ6GEYJ121V ERJ6GEYJ151V		1					-	
R916 R917	ERJ6GEYJ121V		1					+	+
R917	ERJ6GEYJ102Z		1					+	†
	ERJ6GEYJ101Z		2					+	
R924	ERJ6GEYJ821V		1			<u> </u>		+	+
R925	ERJ6GEYJ102Z							+	+
R926, 27	ERJ6GEYJ473V		2			1		+	1
R928	ERJ6GEYJ151V							+	1
R929	ERJ6GEYJ121V		1					+	1
R930	ERJ6GEYJ103V		1				1	\uparrow	1
R931	ERJ6GEYJ151V		1					+	1
R932	ERJ6GEYJ121V							+	†
R933	ERJ6GEYJ103V		1					t	
R971	ERDS2TJ221T	1/4W 220	1					$^{+}$	1
R973.74	ERDS2FJ393	1/4W 39K	2					\uparrow	1
	1		Ē					\uparrow	1
RJ1-38	ERJ6GEY0R00Z	CHIP JUMPER	38		ļ	·····	·····	+	+
						<u> </u>		+	1
S803.04	RSH1A024-U	SW	2			1		1-	
\$900-06	EVQPTD05Q	SW	7					+	
S909-12	EVQPTD05Q	SW	4	······································	 		+	+	1
S915	EVQPTD05Q	SW	1		 			+	
S971	RSH1A018-1U	SW	H					+-	-
\$972-76	RSH1A019-2U	SW	5			1		+	+
3312-10	10117019-20	v#	⊢ ′				<u> </u>	+	
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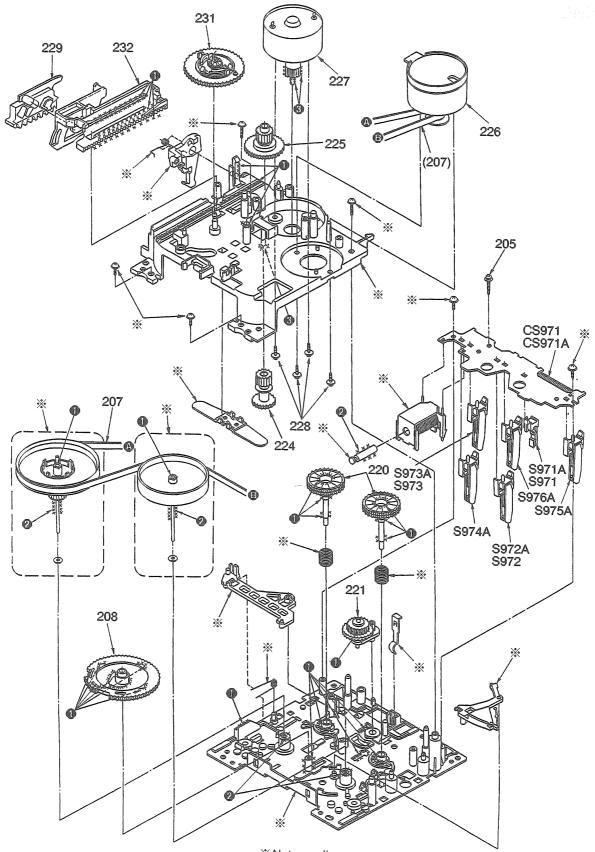
Loading Mechanism Parts Location

Note:

	5		
Ref. No.	Part Name	Part No.	
•	FLOIL AK-152	SZZ0L18	
0	SWAFLUID #56	RZZ0L02	
Ø	MOLYCOAT EM-20L	RZZ0L05	



-32-



ℜNot supplies.

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