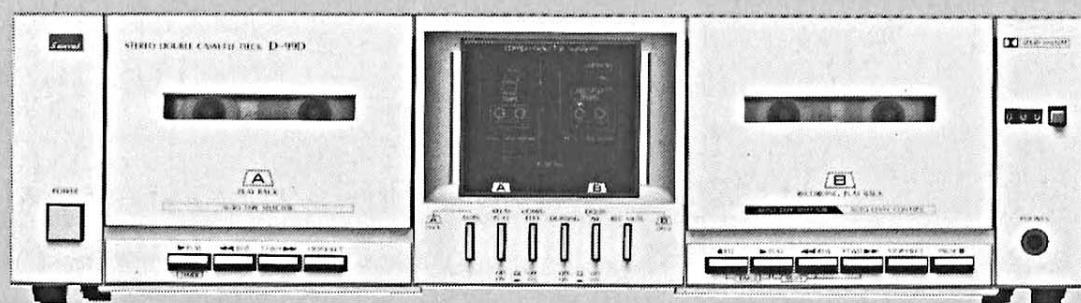


SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

SANSUI D-99D

(Silver & Black Model)



• SPECIFICATIONS

Track	4-Track (2-Channel Stereo)
Tape Speed	4.8 cm/sec. (1-7/8 ips)
Motor	Electronically Controlled DC Motor
Wow and flutter	within 0.07 % WRMS
Fast wind time	approximately 100 seconds (C-60)
Frequency response (Record/Playback)	
Normal Tape (LH) (-20 VU)	
.....	20 to 15,000 Hz (30 to 14,000 Hz ± 3 dB)
Metal Tape (-20 VU)	
.....	20 to 16,000 Hz (30 to 15,000 Hz ± 3 dB)
(0 VU)	30 to 12,000 Hz ± 3 dB
Signal noise ratio (Record/Playback)	
Metal Tape (without Dolby Noise Reduction Effect)	
.....	better than 58 dB (weighted)
(With Dolby Noise Reduction)	
.....	better than 68 dB (above 5 kHz)
Erase factor (Metal Tape)	
.....	more than 70 dB at 1,000 Hz
Input sensitivity and impedance (0 VU, 1,000 Hz)	
LINE IN (REC)	150 mV/47 k Ω
Output level (0 VU, 1,000 Hz)	
LINE OUT (PLAY)	
.....	240 mV
Power requirements	
Power voltage	120/220/240 V (50/60 Hz)
For U.S.A. and Canada	
.....	120 V (60 Hz)
Power consumption	
.....	13 W
Dimensions	
.....	430 mm (16-15/16") W 118 mm (4-11/16") H 223 mm (8-13/16") D
Weight	
.....	4.2 kg (9.3 lbs) net 5.0 kg (11.0 lbs) packed

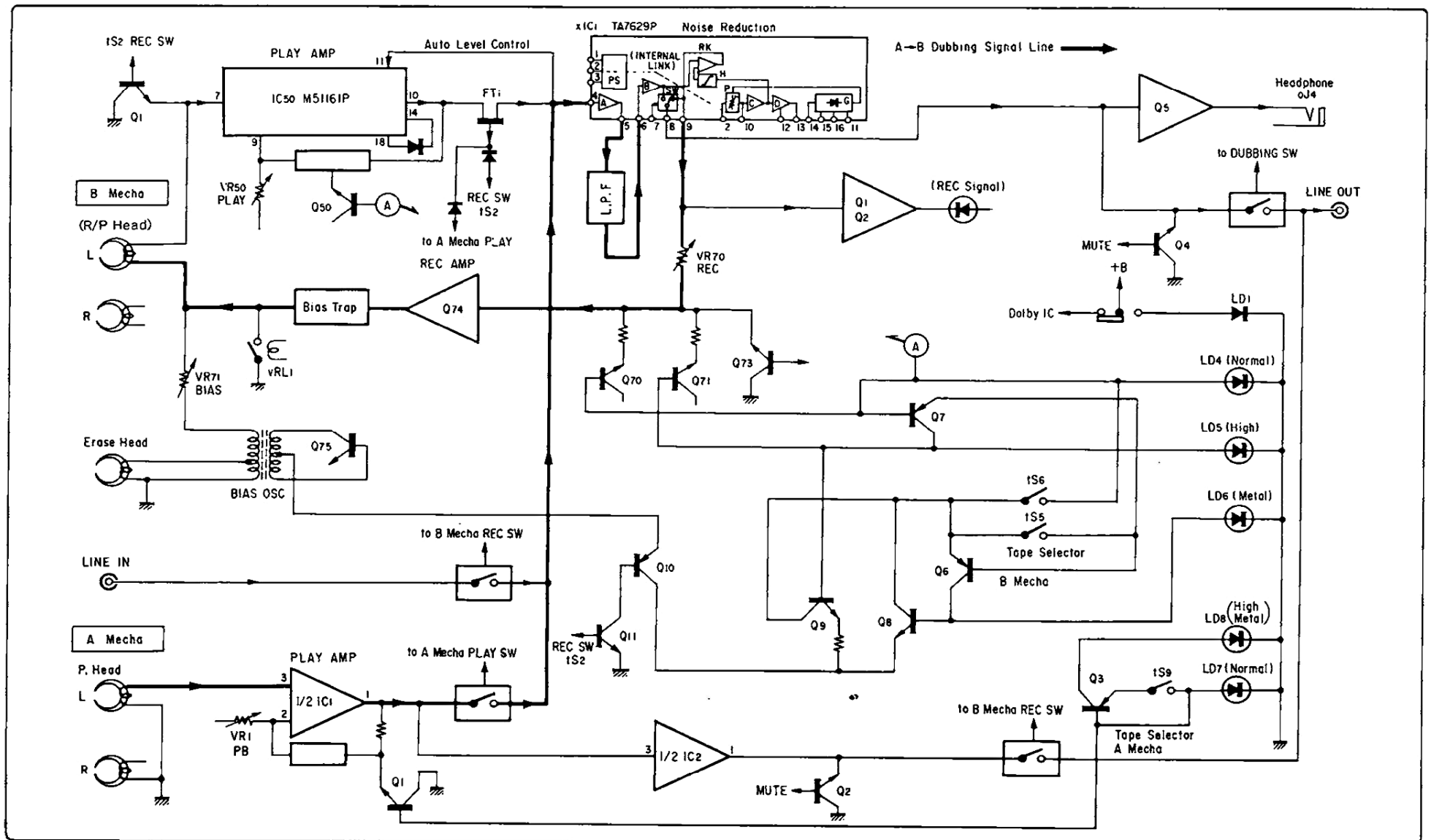
- * Design and specifications subject to changes without notice for improvements.
- * In order to simplify the explanation illustrations may sometimes differ from the originals.
- * Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Sansui

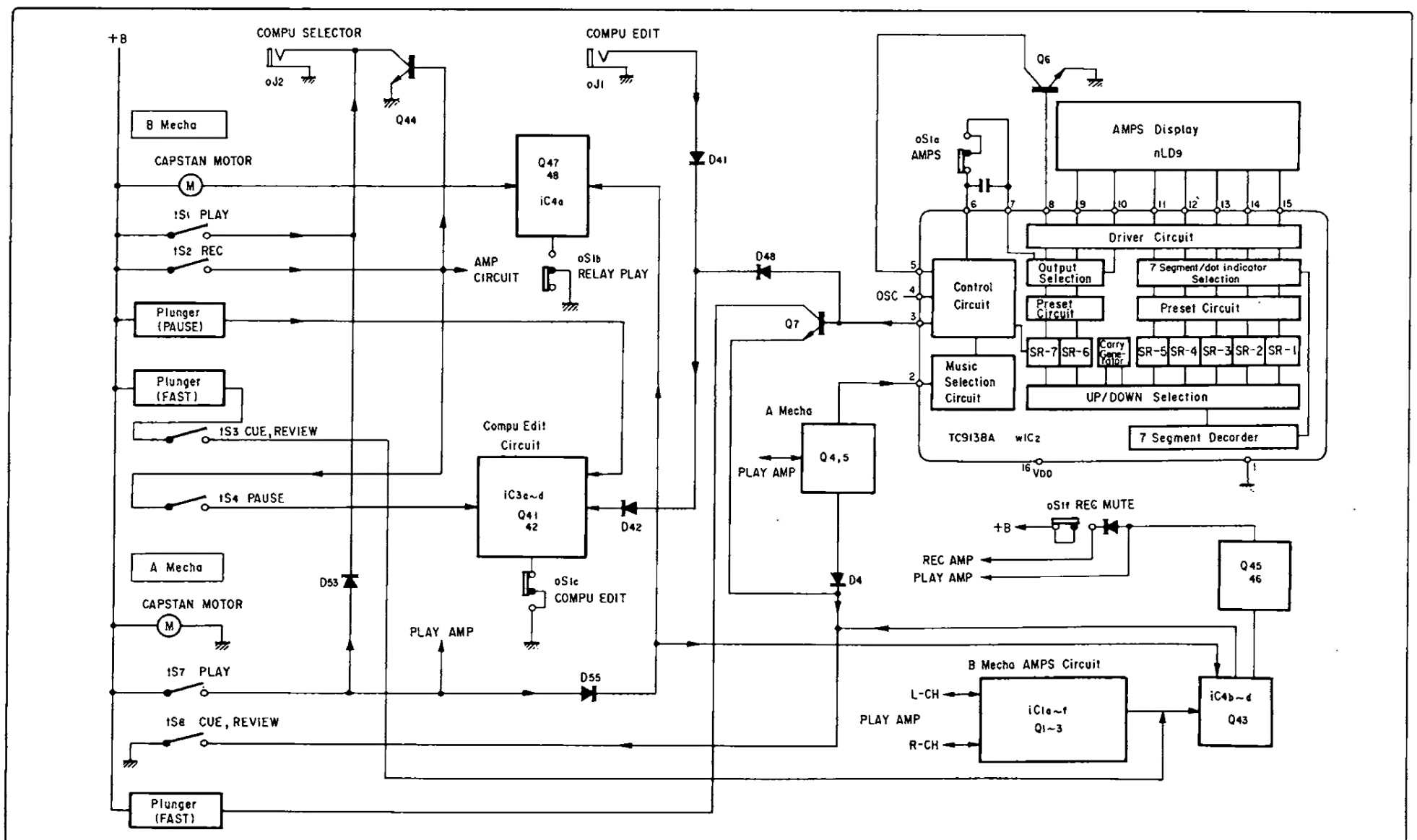
SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM

1-1. REC & PLAY Amp. Section



1-2. Mechanism Logic Control Section



2. MAIN OPERATION OF MECHANISM LOGIC CIRCUIT

● A-Side Mechanism

1. When the power supply is turned on, the capstan motor begins to rotate.
2. When the PLAY button is depressed, the head base comes up by a rotational force of the capstan flywheel.
3. In the PLAY operation, the leaf switch ts7 is turned on, so that a voltage develops at the computer selector terminal via the diode D53.
4. In the FF or REW operation, with AMPS switch ON, the leaf switch ts8 is turned on, the pin No. 2 of the iC2 becomes a state ready for receiving a signal outputted from the PLAY amplifier. The pin No. 3 of the iC2 is at a L-voltage level usually; however, when a desired music interval is detected by the AMPS system, the pin No. 3 of the iC2 changes to a H-voltage level to turn on the transistor Q7. As a result, the FAST plunger is energized to lift the head base for the PLAY operation. At the same time, the leaf switch ts8 is turned off. Further, the AMPS system provided for the A-side mechanism has a capacity to store nine music intervals.

● B-Side Mechanism

1. When the power supply is turned on, the capstan motor begins to rotate.
2. When the PLAY button is depressed, the head base comes up by a rotational force of the capstan flywheel.

3. When the RELAY PLAY switch OS1b is depressed, the capstan motor for the B-side mechanism stops rotating via the iC4a and Q48. When the RELAY PLAY switch is depressed with both the A-side and B-side mechanism set to the PLAY operation, the tape for the A-side mechanism stops running, and the capstan for the B-side mechanism begins rotating via the fs7, iC4a and Q48, so that the PLAY operation begins.
4. When the A-side and B-side mechanisms are required to operate at the same time, both the PLAY switches should be depressed. In this case, however, the PLAY amplifier in the B-side mechanism becomes inoperative via the leaf switch ts7.
5. If an input signal develops at the computer edit terminal in the REC PAUSE state, the pause plunger is deenergized via the computer edit circuit to activate the RIC. When the operation of the A-side Mechanism is changed from PLAY to FF, REW or STOP during the B-side Mechanism is in the REC operation, the operation of the B-side Mechanism changes to PAUSE after a while.
6. The AMPS system for the B-side mechanism can detect only a signal music interval. When a signal is cut off at the music interval, the amplifier for the B-side mechanism deenergizes the FAST plunger via the CUE, REVIEW switch fs3 to start the PLAY operation.

◆ OPERATION MODE OF LINE OUT, DOLBY CIRCUIT, PHONE OUT, & REC HEAD (See Block Diagram 1-1 on page 1)

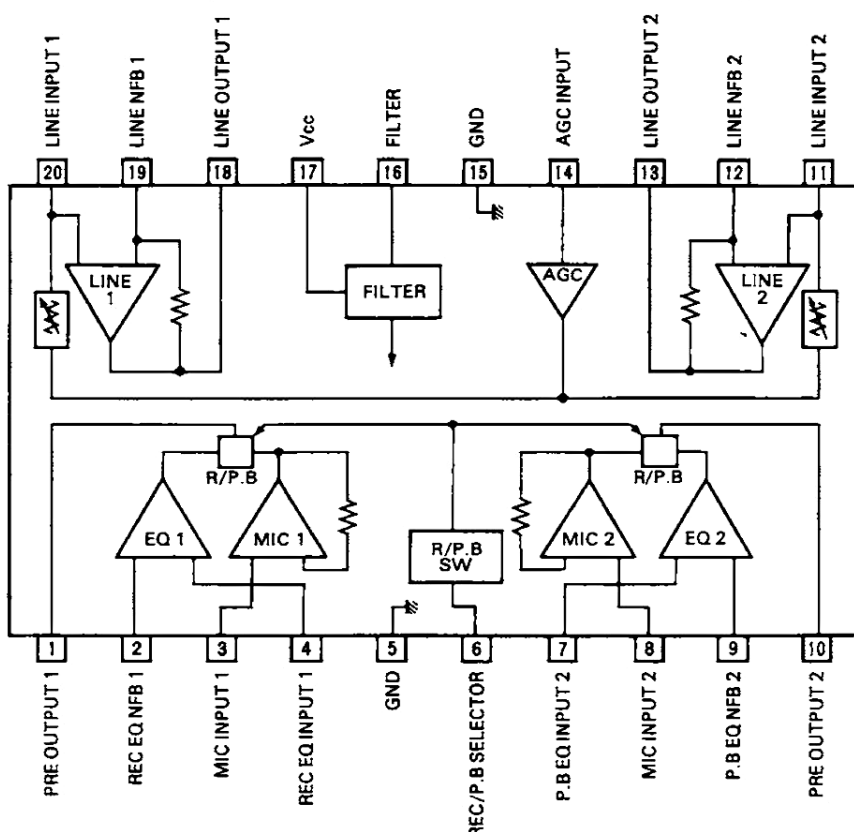
	Operation of Double Cassette	LINE OUT Signal	DOLBY CIRCUIT	PHONE OUT Signal	REC Head
1	A Mecha . . . PLAY	A	A	A	
2	B Mecha . . . PLAY	B	B	B	
3	B Mecha . . . REC	C	C	C	
4	A Mecha . . . PLAY B Mecha . . . REC (Dubbing SW ON)	A	A	A	A

	Operation of Double Cassette	LINE OUT Signal	DOLBY CIRCUIT	PHONE OUT Signal	REC Head
5	A Mecha . . . PLAY B Mecha . . . REC (Dubbing SW OFF)	A	NOT	NOT	
6	A Mecha . . . PLAY B Mecha . . . PLAY	A	A	A	

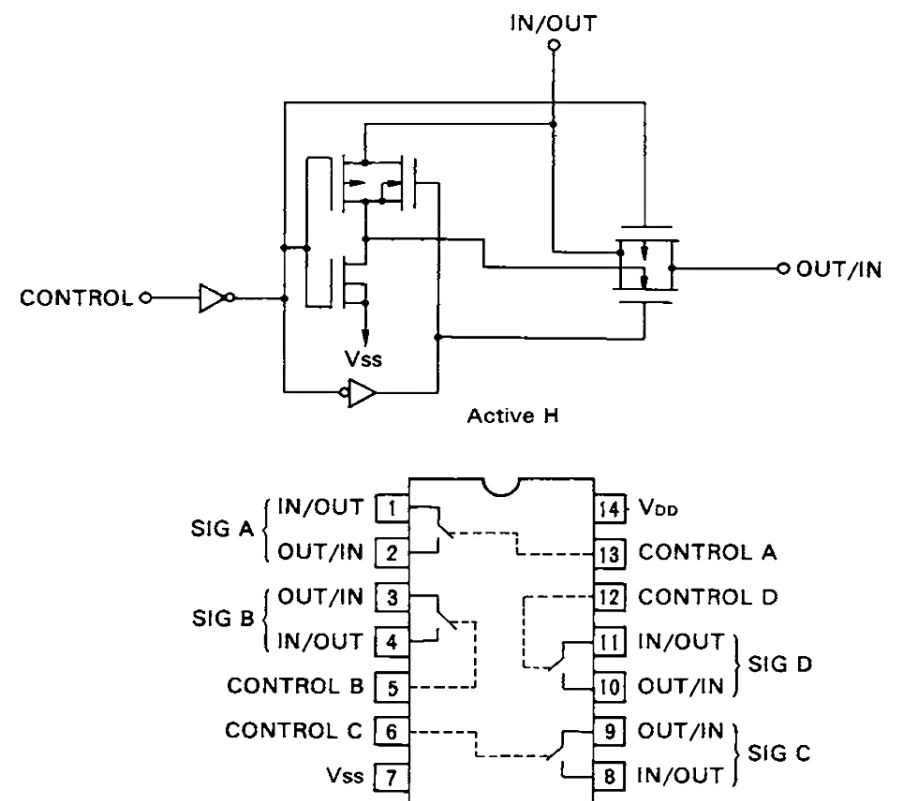
Note: A A Mecha Play Signal
B B Mecha Play Signal
C B Mecha Record Signal

3. INTERIOR BLOCK DIAGRAM OF IC

● M51161P (MIC Amp. & PLAY EQ. Amp. IC)



● MSM4066RS (Analog Switch)



4. ADJUSTMENTS

4-1. Tape Speed Adjustment

Note: 1. Use Sansui Test Tape, SCT-3SK
(3 kHz signals are recorded on the tape).
2. Connections are shown in Fig. 4-1.

Fig. 4-1

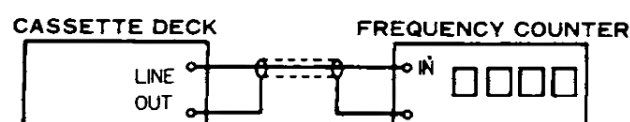
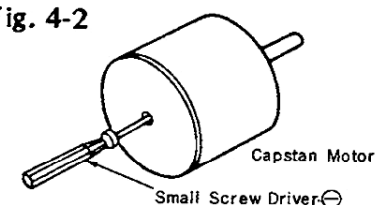


Fig. 4-2



STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	A Side Mecha.	LINE OUT Frequency counter	Playback the TEST TAPE SCT-S3K. A Side Mecha	Turn semi-variable resistor of A Side Mecha. as Fig. 4-2	3000Hz \pm 45Hz	Use small screw driver.
2.	B Side Mecha.		Playback the TEST TAPE SCT-S3K. B Side Mecha.	Turn semi-variable resistor of B Side Mecha. as Fig. 4-2.		

4-2. Playback Adjustment

Note: 1. Before this adjustment, clean REC/P.B. head surface.
2. For this adjustment, use Sansui Test Tape, SCT-F10K, SCT-L400N and SCT-F1K.
3. Set the Dolby NR switch to be OFF.
4. Connections are shown in Fig. 4-3.

Fig. 4-3

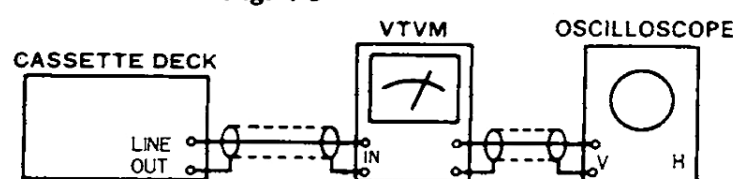
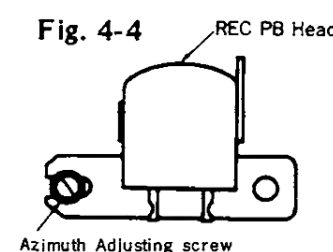


Fig. 4-4



1) A-Side Mecha. Adjustment

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	P.B. Head Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-F10K	Adjust the azimuth adjusting screw in Fig. 4-4.	MAX. Output both channels.	Refer to removal of Lid Ass'y on Page 9. After this adjustment, lock the screw with paint.
2.	Playback Level Adj.	Same as above	Playback the TEST TAPE SCT-L400	Adjust each; VR1 on L-CH and R-CH. (F-3888)	320mV \pm 2 dB	See Top View on Page 12.
3.	High Frequency Equalization Check	Same as above	Playback the TEST TAPE SCT-F1K.	—	—	Read output levels on both channels.
			Playback the TEST TAPE SCT-F10K	—	—	Confirm that the output levels are within \pm 3 dB comparing with the above readings.

2) B-Side Mecha. Adjustment

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	REC/P.B. Head Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-F10K	Adjust the azimuth adjusting screw in Fig. 4-4	MAX. Output both channels.	Refer to removal of Lid Ass'y on Page 9. After this adjustment, lock the screw with paint.
2.	Playback Level Adj.	Same as above	Playback the TEST SCT-L400	Adjust each vVR50 on L-CH and R-CH. (F-3816)	320mV \pm 2 dB	See Top View on Page 12.
3.	High Frequency Equalization Check	Same as above	Playback the TEST TAPE SCT-F1K.	—	—	Read output levels on both channels.
			Playback the TEST TAPE SCT-F10K	—	—	Confirm that the output levels are within \pm 3 dB comparing with the above readings.

4-3. Recording Adjustment

1) Bias Adjustment <B Side Mecha. only>

- Perform this adjustment, when replacing bias osc circuit, variable resistor for bias adjustment or REC/PB head.

Note: 1. For this adjustment, use Sansui Test Tape, SCT-SA.
2. Set the Dolby NR Switch to be OFF.
3. Connections are shown in Fig. 4-5.

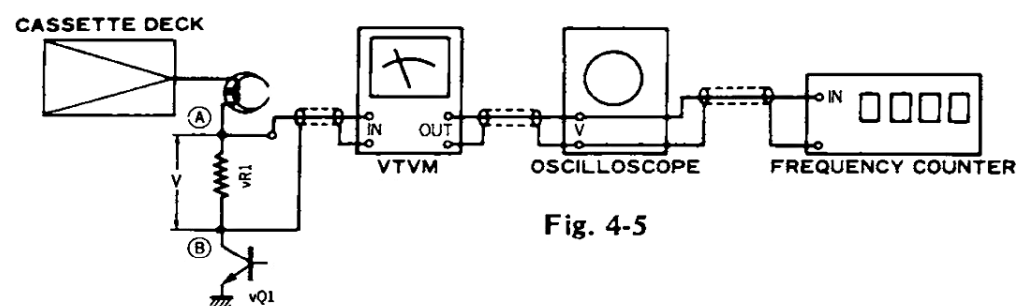


Fig. 4-5

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	Recording Bias Adj.	Between A & B points of each vR1 (F-3888) VTVM, Scope, Frequency Counter	Load the TEST TAPE SCT-SA. Depress PAUSE, REC buttons.	Adjust vVR71L for L-CH and vVR71R for R-CH. (F-3818)	3.8mV	See Top View on Page 12.
			Load the TEST TAPE SCT-AD. Depress PAUSE and REC buttons.	_____	_____	Confirm the indication on VTVM shows 3.2mV.
			Load the TEST TAPE SCT-MA. Depress PAUSE and REC buttons.	_____	_____	Confirm the indication on VTVM shows 6.4mV.
2.	Bias Frequency Check	Same as above	Load the TEST TAPE SCT-SA. Depress PAUSE and REC buttons.	_____	_____	Confirm that the Frequency Counter shows 85kHz ± 10 kHz.

2) REC Level & Frequency Response Adjustment

Note: 1. Connections are shown in Fig. 4-6.
2. Set the Dolby NR switch to be OFF.

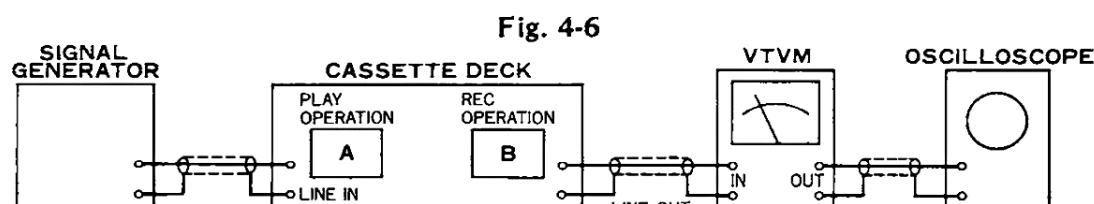


Fig. 4-6

STEP	SUBJECT	INPUT SIGNAL	MEASURE OUTPUT	SETTING	ADJUSTMENT	REMARKS
1.	REC Level adj.		LINE OUT VTVM and Scope	Load the TEST TAPE SCT-F1K to A side Mecha. Load the TEST TAPE SCT-SA to B side Mecha. Dubbing switch ON. 1. Depress PLAY button of A side Mecha. 2. Depress REC button of B side Mecha. 3. Playback the 1kHz signal (TEST TAPE SCT-SA) or B side Mecha.	Adjust vVR70 (L-CH, R-CH) until playback level of the A side Mecha. and B side Mecha. will be equal.	vVR70 are shown in Top View on Page 12.
2.	Frequency Response Adj. <B side Mecha. only>	Feed 1kHz 15mV and 13kHz 15mV from SG into LINE IN	LINE OUT VTVM and Scope	Load the TEST TAPE SCT-SA. Dubbing switch OFF. 1. Record the 1kHz and 13kHz signals from S.G. 2. Playback the 1kHz and 13kHz signals, then confirm 13kHz signal level in less than 1kHz signal level ± 2 dB on VTVM.	1. If not, adjust vVR71 (L-CH, R-CH) (F-3818) slightly until the 13kHz signal level in less than 1kHz signal level ± 2 dB on VTVM.	As vVR71 are previously adjusted, turn them slightly, if necessary.

◆ List of Sansui Test Tape

Name of TEST TAPE	Recorded Frequency	Description	Equivalent To
SCT-F40	40 Hz	Playback Frequency Response Check	—
SCT-F1K	1 kHz	High Frequency Equalization Check	—
SCT-F10K	10 kHz	REC/PB Head Adjustment	—
SCT-L400N	400 Hz	Playback Level and Indicator Level Adjustment	—
SCT-S3K	3 kHz	Speed Check and Wow & Flutter Check	—
*SCT-AD NORMAL (LH)	—	Recording Bias Adjustment	TDK AD
*SCT-SA HIGH (CrO ₂)	—	REC/PB Level Adjustment	TDK SA
*SCT-MA (METAL)	—	Frequency Response Check	TDK MA

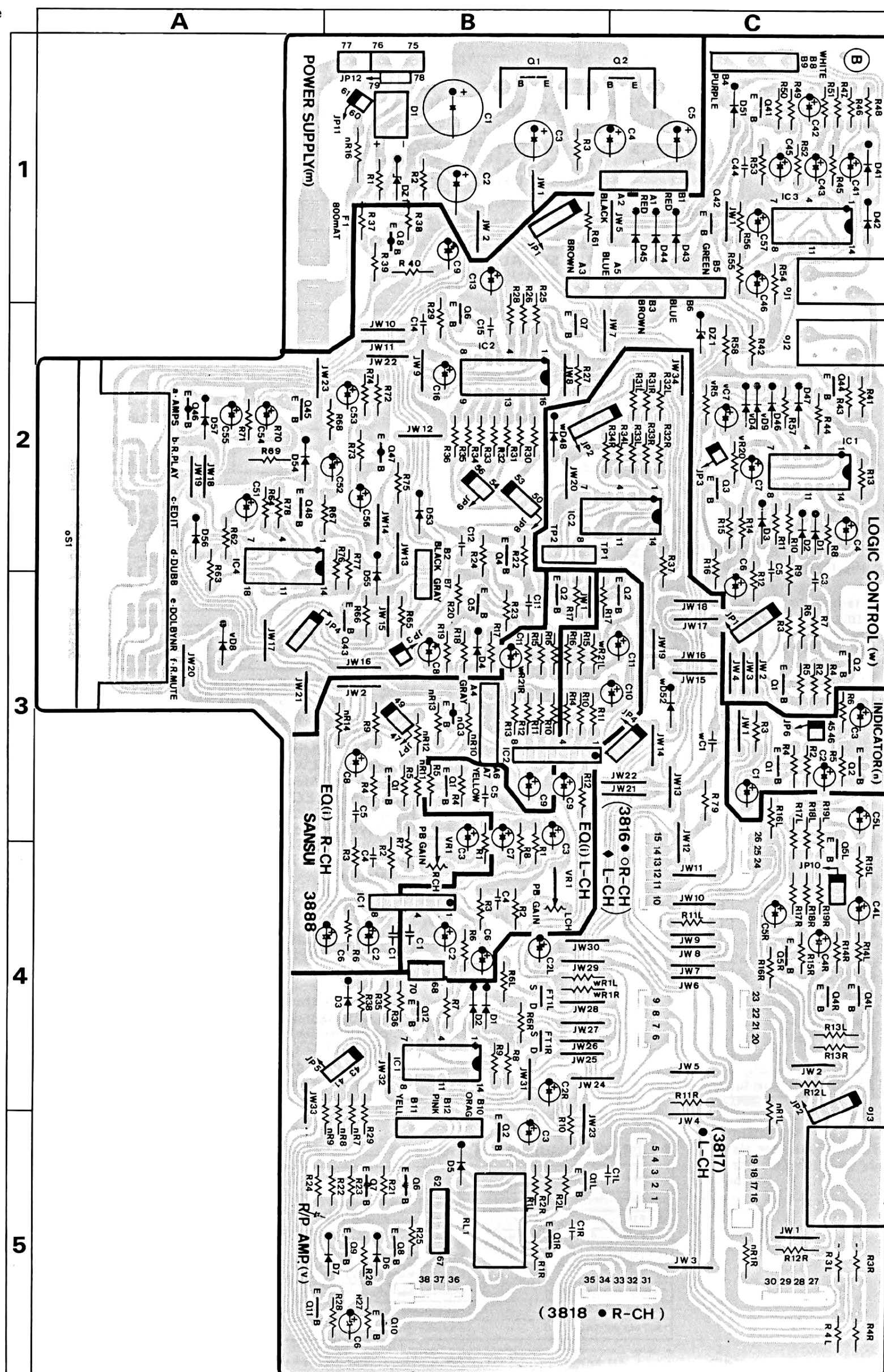
Note: Some reference tapes marked * are not supplied.
As these are equivalent to ones indicated above, please obtain these blank tapes on your side as possible.

5. PARTS LOCATION & PARTS LIST

5-1. F-3888 Motor & Logic Control Circuit Board (Stock No. 00714501)

• Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

Component Side



Parts List <F-3888>

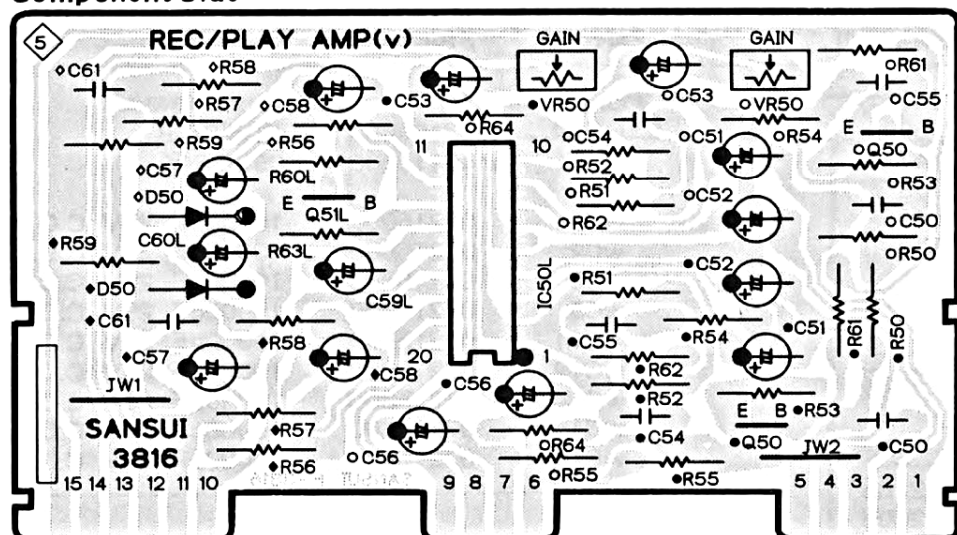
Parts No.	Stock No.	Description
●Transistor		
iQ1	46367101	2SC2603
	or 46391901	2SC2785
iQ2	46367101	2SC2603
	or 46391901	2SC2785
●IC		
iIC1	46078900	M5218L
iIC2	46078900	M5218L
iC4	07215900	12000pF 25V C.C.
iC5	07215800	10000pF 25V C.C.
iVR1	10370500	P.B Level VR 2k Ω
●Transistor		
mQ1, 2	03086101	2SD357
●Diode		
mD1	46273600	DBB10-B
mD2	03111600	1S2473D
●Zener Diode		
mDZ1	46113800	05Z12-X
●Transistor		
nQ1	46367101	2SC2603
	or 46391910	2SC2785
nQ2	46367101	2SC2603
	or 46391901	2SC2785
nQ3	46367001	2SA1115
	or 46392001	2SA1175
oS1	46368400	Push SW., accessory (Dolby etc.)
oJ1	46411800	Jack
oJ2	46411800	Jack
oJ3	46363800	4P Terminal
●Transistor		
vQ1	46367101	2SC2603
	or 46391901	2SC2785
vQ2	46367101	2SC2603
	or 46391901	2SC2785
vQ4	46367101	2SC2603
vQ5	46367101	2SC2603
	or 46391901	2SC2785
vQ6	46367001	2SA1115
	or 46392001	2SA1175
vQ7	46367001	2SA1115
	or 46392001	2SA1175
vQ8	46367100	2SC2603
	or 46391901	2SC2785
vQ9	46367101	2SC2603
	or 46391901	2SC2785
vQ10	46367001	2SA1115
	or 46392001	2SA1175
vQ11, 12	46367101	2SC2603
	or 46391901	2SC2785
●FET		
vFT1	46421201	2SJ103
●IC		
vIC1	07264600	MSM4066RS
vIC2	07264600	MSM4066RS
●Diode		
vD1	03117600	1S2473
	or 46086000	1S1588
vD2	03117600	1S2473
	or 46086000	1S1588
vD3	03117600	1S2473
	or 46086000	1S1588
vD4	03117600	1S2473
	or 46086000	1S1588
vD5	03117600	1S2473
	or 46086000	1S1588

Parts No.	Stock No.	Description
vD6	03117600	1S2473
	or 46086000	1S1588
vD7	03117600	1S2473
	or 46086000	1S1588
vD8, 9	03117600	1S2473
	or 46086000	1S1588
vDZ1, 2	03183600	RD5.6E-B
vRL1	11504700	Relay
●Transistor		
wQ1	46367101	2SC2603
	or 46391901	2SC2785
wQ2	46367101	2SC2603
	or 46391901	2SC2785
wQ3	46134200	2SD1111
wQ4	46367101	2SC2603
	or 46391901	2SC2785
wQ5	46367101	2SC2603
	or 46391901	2SC2785
wQ6	46367101	2SC2603
	or 46391901	2SC2785
wQ7	46134200	2SD1111
wQ8	46367001	2SA1115
	or 46392001	2SA1175
wQ41	46367101	2SC2603
	or 46391901	2SC2785
wQ42	46134200	2SD1111
wQ43	46367101	2SC2603
	or 46391901	2SC2785
wQ44	46367101	2SC2603
	or 46391901	2SC2785
wQ45	46367101	2SC2603
	or 46391901	2SC2785
wQ46	46367001	2SA1115
	or 46392001	2SA1175
wQ47	46367001	2SA1115
	or 46392001	2SA1175
wQ48	46134200	2SD1111
●IC		
wIC1	03605700	MSM4069RS
wIC2	46369800	TC9138AP
wIC3	03604000	MSM4011RS
wIC4	03604000	MSM4011RS
●Diode		
wD1	03117600	1S2473
	or 46086000	1S1588
wD2	03117600	1S2473
	or 46086000	1S1588
wD3	03117600	1S2473
	or 46086000	1S1588
wD4	03117600	1S2473
	or 46086000	1S1588
wD41	03117600	1S2473
	or 46086000	1S1588
wD42	03117600	1S2473
	or 46086000	1S1588
wD43	03117700	10E-2
wD44	03117700	10E-2
wD45	03117700	10E-2
wD46	03117600	1S2473
	or 46086000	1S1588
wD47, 48	03117600	1S2473
	or 46086000	1S1588
wD51	03117600	1S2473
	or 46086000	1S1588
wD52	03117600	1S2473
	or 46086000	1S1588
wD53	03117600	1S2473
	or 46086000	1S1588
wD54	03117600	1S2473
	or 46086000	1S1588
wD55	03117600	1S2473
	or 46086000	1S1588
wD56, 57	03117600	1S2473
	or 46086000	1S1588

Parts No.	Stock No.	Description
●Zener Diode		
wDZ1	03183600	RD5.6E-B
	or 46111500	05Z5.6-Y
wC1	07215800	10000pF 25V C.C.
wC2	07215800	10000pF 25V C.C.
wC3	07215800	10000pF 25V C.C.
wC5	07215800	10000pF 25V C.C.
wC11	07215800	10000pF 25V C.C.
wC12	07215800	10000pF 25V C.C.
wC14	07215800	10000pF 25V C.C.
wC15	07215800	10000pF 25V C.C.
wC44	07215800	10000pF 25V C.C.

5-2. F-3816 MIC/P.B. Amp. Circuit Board (Stock No. 00714201)

Component Side



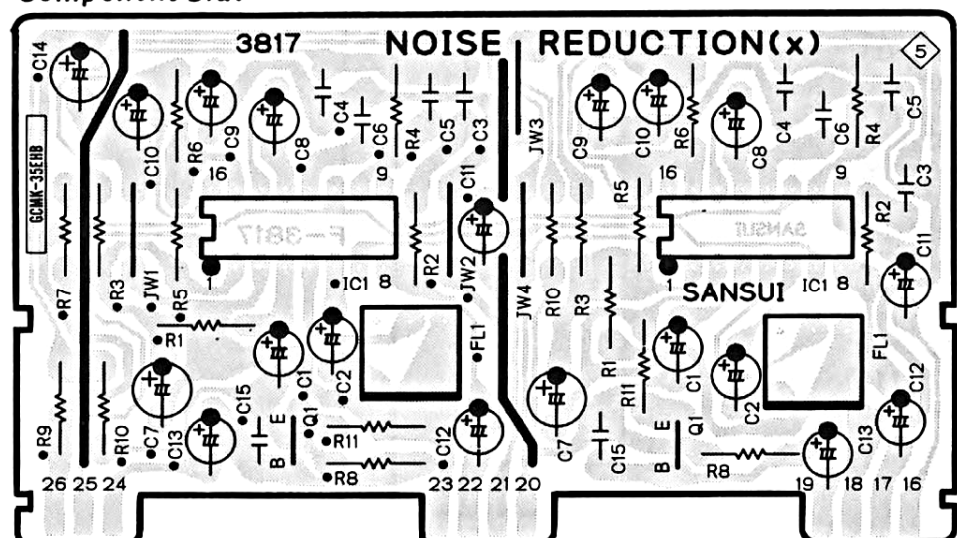
* Note: On this circuit board, the left channel is specified by "•, ♦" mark on top of the parts No.

Parts List

Parts No.	Stock No.	Description
• Transistor		
vQ50	46367101	2SC2603
	or 46391901	2SC2785
vQ51	46367101	2SC2603
	or 46391901	2SC2785
• IC		
vIC50	46362100	M51161P
• Diode		
vD50	03117600	1S2473
	or 46086000	1S1588
vC50	07215000	2200pF 25V C.C.
vC54	07216400	33000pF 25V C.C.
vC55	07216200	22000pF 25V C.C.
vC61	07216300	27000pF 25V C.C.
vVR50	07261500	500Ω S.V.R. P.B. Gain

5-3. F-3817 Noise Reduction Circuit Board (Stock No. 00714301)

Component Side



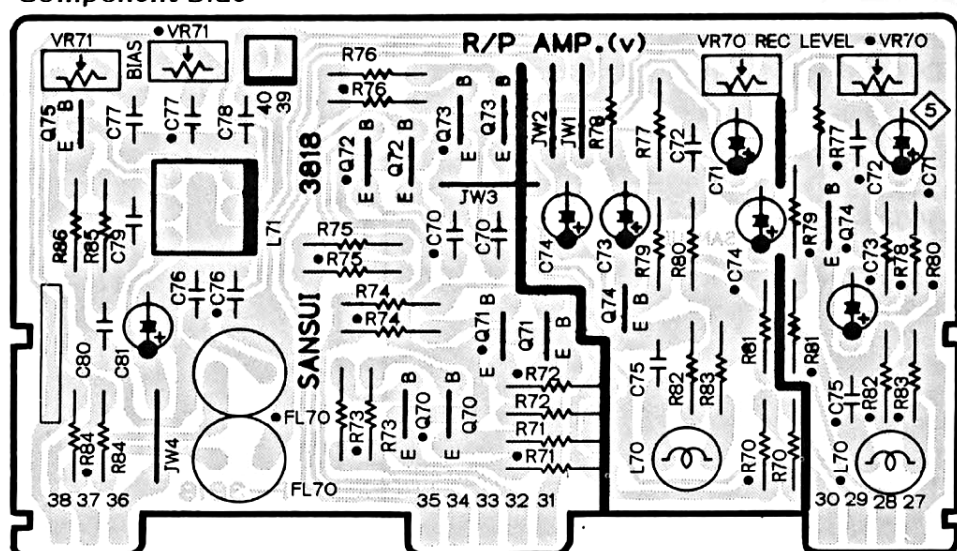
Parts List

Parts No.	Stock No.	Description
• Transistor		
xQ1	46367101	2SC2603
	or 46391901	2SC2785
• IC		
xIC1	46128200	TA7629P
xC3	07215500	5600pF 25V C.C.
xC4	07216300	27000pF 25V C.C.
xC5	07215400	4700pF 25V C.C.
xC6	07216600	47000pF 25V C.C.
xFL1	46438200	Dolby Filter

* Note: On this circuit board, the left channel is specified by "•" mark on top of the parts No.

5-4. F-3818 REC Amp. Circuit Board (Stock No. 00714401)

Component Side



* Note: On this circuit board, the right channel is specified by "•" mark on top of the parts No.

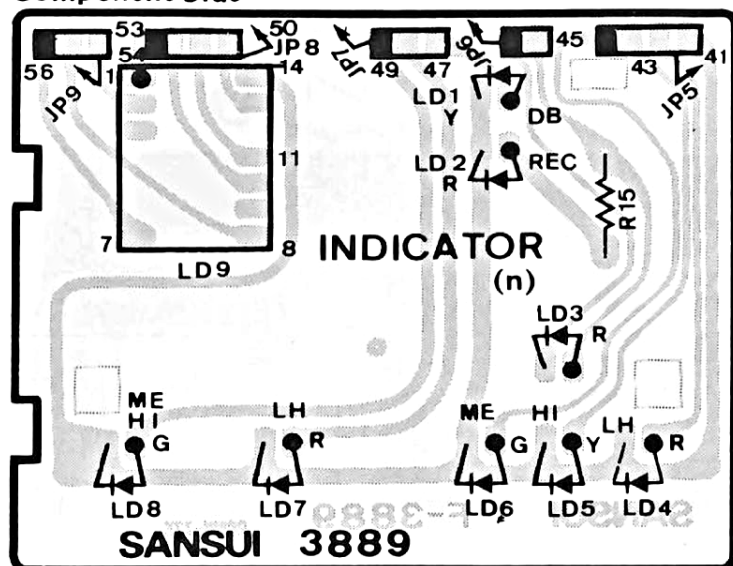
Parts List

Parts No.	Stock No.	Description
• Transistor		
vQ70	46367101	2SC2603
	or 46391901	2SC2785
vQ71	46367101	2SC2603
	or 46391901	2SC2785
vQ72	46367101	2SC2603
	or 46391901	2SC2785
vQ73	46367101	2SC2603
	or 46391901	2SC2785
vQ74	46367101	2SC2603
	or 46391901	2SC2785
vQ75	46362301	2SC1627A
vC70	07211700	1000pF 25V C.C.
vC75	07216300	27000pF 25V C.C.
vC78	00405200	0.0039μF 100V F.C.
vC79	07215400	4700pF 25V C.C.
vC80	07215400	4700pF 25V C.C.
vFL70	42904400	Trap Coil
vL70	46090500	Inductor 2.7mH
	or 46313900	Inductor 2.7MHz
vL71	46362200	BIAS OSC Coil
vVR70	07262100	50kΩ S.V.R., Rec level
vVR71	07262200	100kΩ S.V.R., Rec level

- Note: The circuit boards, F-3889, F-3890, F-3891 & F-3892 are not supplied as the assembled. However, the individual parts on the circuit boards are provided for orders.

5-5. F-3889 Indicator Circuit Board

Component Side

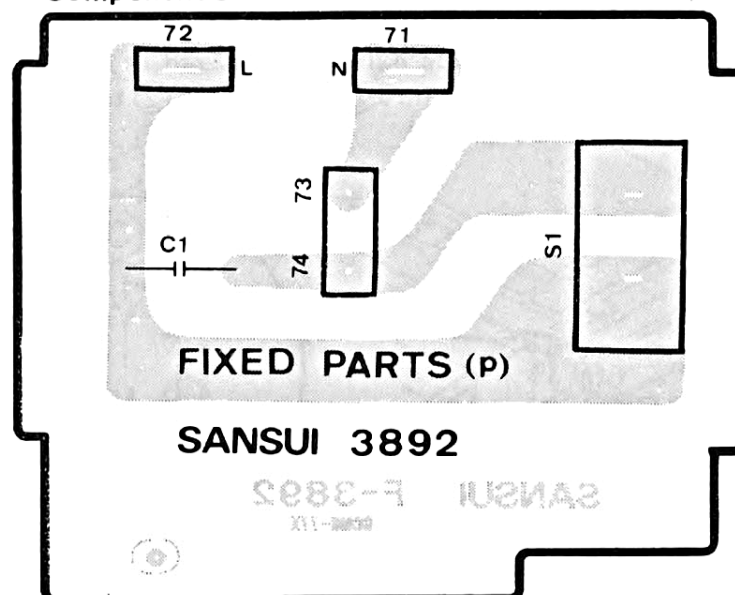


Parts List

Parts No.	Stock No.	Description
•LED		
nLD1	07251000	TLY-123
nLD2	46176900	TLS-123
nLD3	46176900	TLS-123
nLD4	46176900	TLS-123
nLD5	07251000	TLY-123
nLD6	07250900	TLG-123
nLD7	46176900	TLS-123
nLD8	07250900	TLG-123
nLD9	46367800	SEL-511

5-6. F-3892 AC Switch Circuit Board

Component Side



Parts List

Parts No.	Stock No.	Description
pC1	46425800	10000pF 400V C.C.
pS1	46360300	Push SW., AC SW.

5-7. F-3890 Headphone Circuit Board

Parts List

Parts No.	Stock No.	Description
oJ4	46265700	Jack

5-8. F-3891 Pilot Lamp Circuit Board

Parts List

Parts No.	Stock No.	Description
nPL1	46315900	Pilot Lamp 12V 0.15A

• Abbreviations

C.R. : Carbon Resistor
 S.R. : Solid Resistor
 Ce.R. : Cement Resistor
 M.R. : Metal Film Resistor
 F.R. : Fusing Resistor
 N.I.R. : Non-Inflammable Resistor
 C.C. : Ceramic Capacitor
 C.T. : Ceramic Capacitor, Temperature Compensation
 E.C. : Electrolytic Capacitor
 E.L. : Low Leak Electrolytic Capacitor

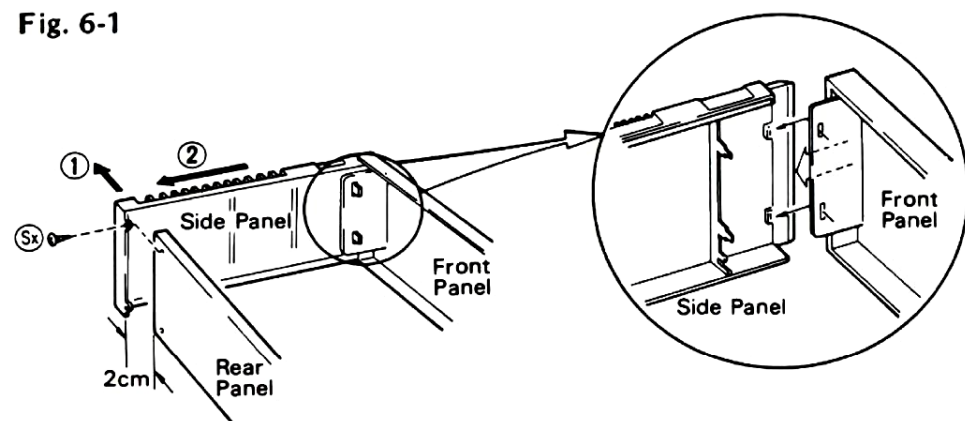
E.B. : Bi-Polar Electrolytic Capacitor
 E.B.L. : Low Leak Bi-Polar Electrolytic Capacitor
 Ta.C. : Tantalum Capacitor
 F.C. : Film Capacitor
 M.P. : Metalized Paper Capacitor
 P.C. : Polystyrene Capacitor
 G.C. : Gimmic Capacitor
 V.R. : Variable Resistor
 S.V.R. : Semi Variable Resistor
 SW. : Switch

6. MAIN PARTS REPLACEMENT

A. Replacement of Left (Right) Side Panel

- 1) Remove bonnet and bottom plate.
- 2) Remove the screw (Sx) fixing side panel L (R) from rear panel side.
- 3) Shift the position of the side panel L (R) 2 cm in the arrow direction ① and then pull it the arrow direction ② to remove the side panel L (R). (See Fig. 6-1)

Fig. 6-1



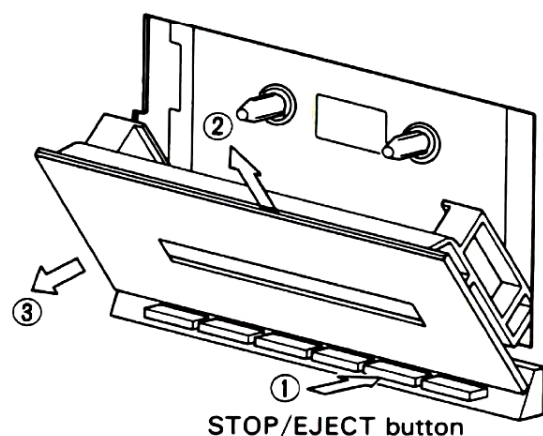
B. Replacement of Front Panel Ass'y

- 1) Remove bonnet, bottom plate, and side panel.
- 2) Remove A, B Side Mechanism Ass'y and F-3889, F-3890.
- 3) Remove the tension wire ③. (See Top View on Page 12).

C. Removal and Attachment of Lid Ass'y

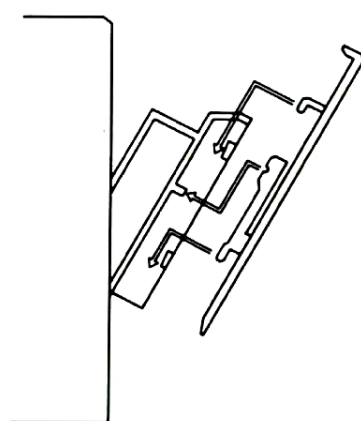
Depress the STOP/EJECT button to open the cassette case, and pull the lid up and then toward you to remove it as shown figure.

Fig. 6-2



Re-attach the cover to the cassette case by following the procedure for its removal in reverse.

Fig. 6-3



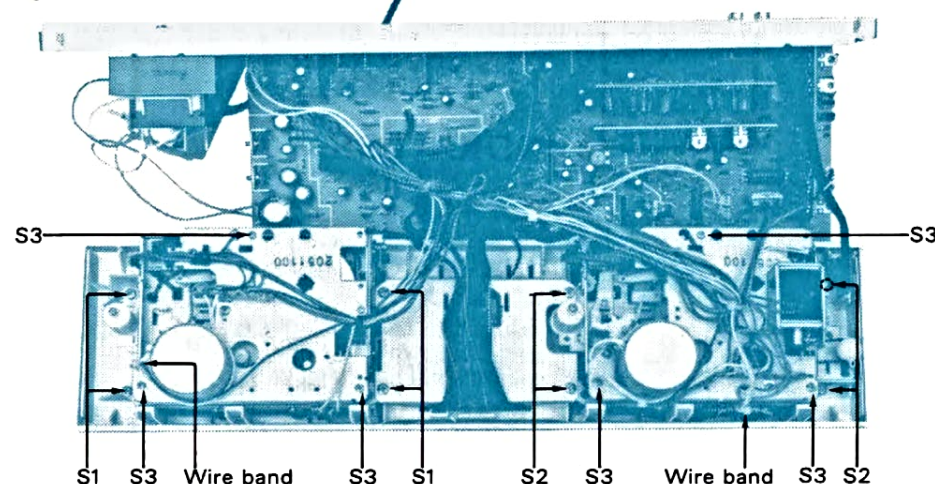
D. Replacement of A Side Mechanism Ass'y

- 1) Remove bonnet, bottom plate, left side panel, and cassette lid Ass'y.
- 2) Loosen four screws (S1) fixing mechanism Ass'y. (See Fig. 6-4)

E. Replacement of B Side Mechanism Ass'y

- 1) Remove bonnet, bottom plate, right side panel, and cassette lid Ass'y.
- 2) Loosen four screws (S2) fixing mechanism Ass'y.

Fig. 6-4

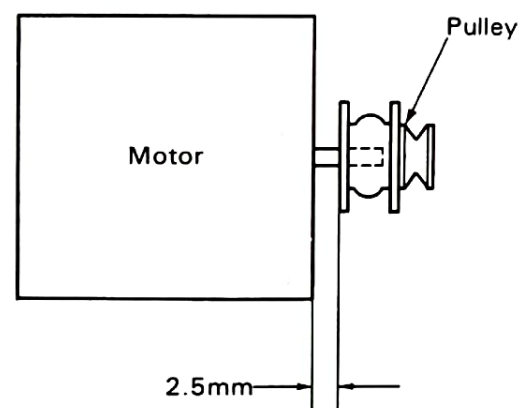


F. Replacement of Capstan Motors

- 1) Remove bonnet and bottom plate.
- 2) Cut the wire from motor.
- 3) Cut the wire band.
- 4) Loosen three screws (S3) fixing mechanism holder (55).
- 5) Loosen three screws (60) fixing motor Ass'y. (See Fig. 6-4 & Exploded View on Page 10, 11)
- 6) Pluck out pulley (52) from motor.

Note: When installing the pulley to the motor, adjust the gap between the motor and the pulley so as to be about 2.5 mm (See Fig. 6-5).

Fig. 6-5



G. Replacement of Tension Belt (91) and Capstan Belt (93) (See Exploded View on Page 10, 11)

- 1) Reform items 1) ~ 4) "F. Replacement of Capstan Motors" first.
- 2) Take out tension belt and capstan belt.

H. Replacement of counter Belt (46) (See Exploded View on Page 10, 11)

- 1) Remove cassette lid Ass'y of B Mecha.
- 2) Loosen two screw (S4) to remove mechanism cover (44).
- 3) Take out counter belt from relay pulley and take up reel hub (14).

I. Replacement of Supply Reel Hub (12) and Take-up Reel Hub (14)

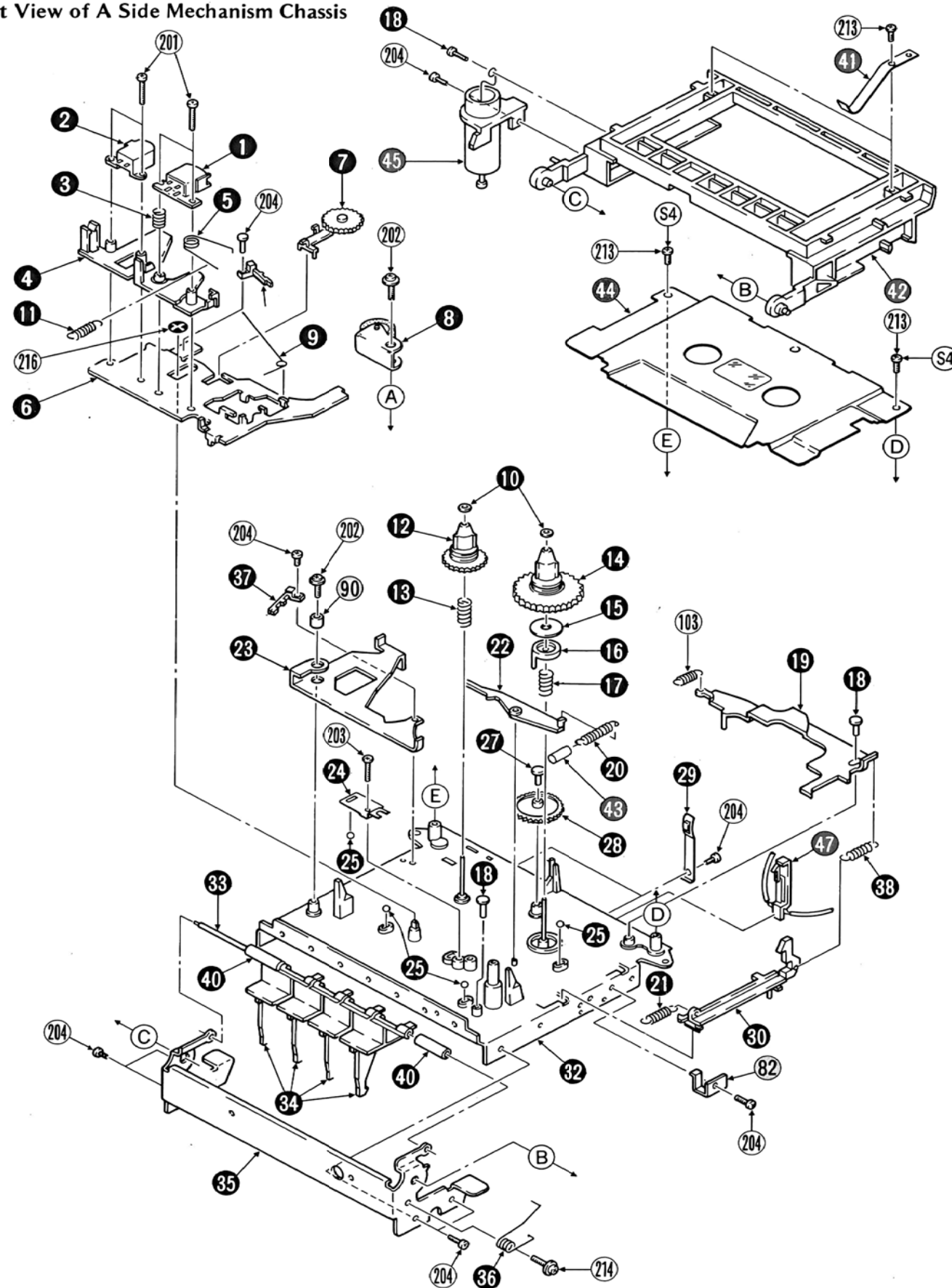
- 1) Remove cassette lid Ass'y.
- 2) Loosen two screw (S4) to remove mechanism cover (44).
- 3) Take out ply-washer (10) to remove supply reel hub or take-up reel hub.

J. Replacement of Control Button (34) and REC Button (44)

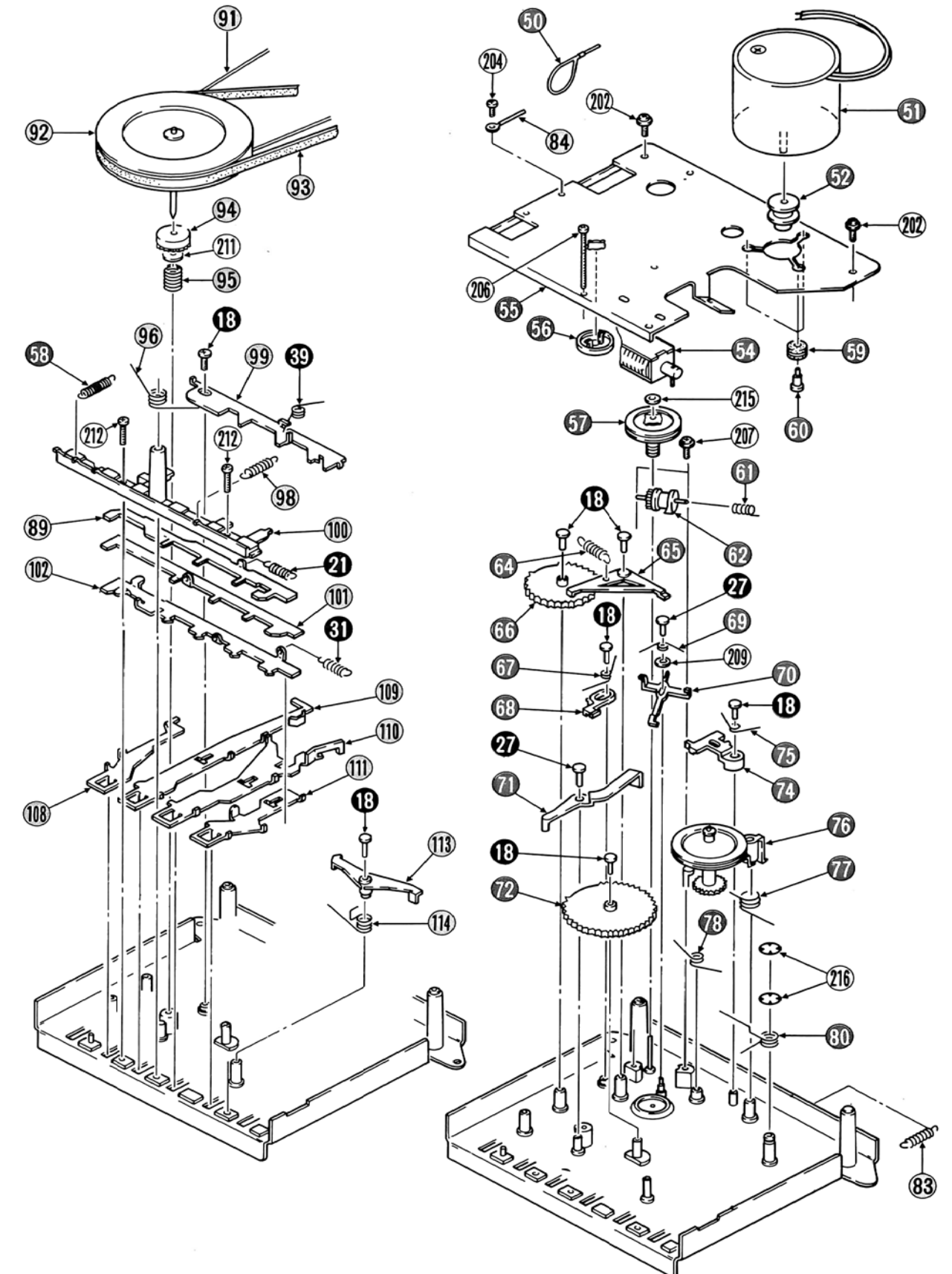
- 1) Remove mechanism Ass'y.
- 2) Take out the button (34) or (49) from button shaft (33).

7. EXPLODED VIEW OF MECHANISM Ass'y & PARTS LIST

7-1. Front View of A Side Mechanism Chassis



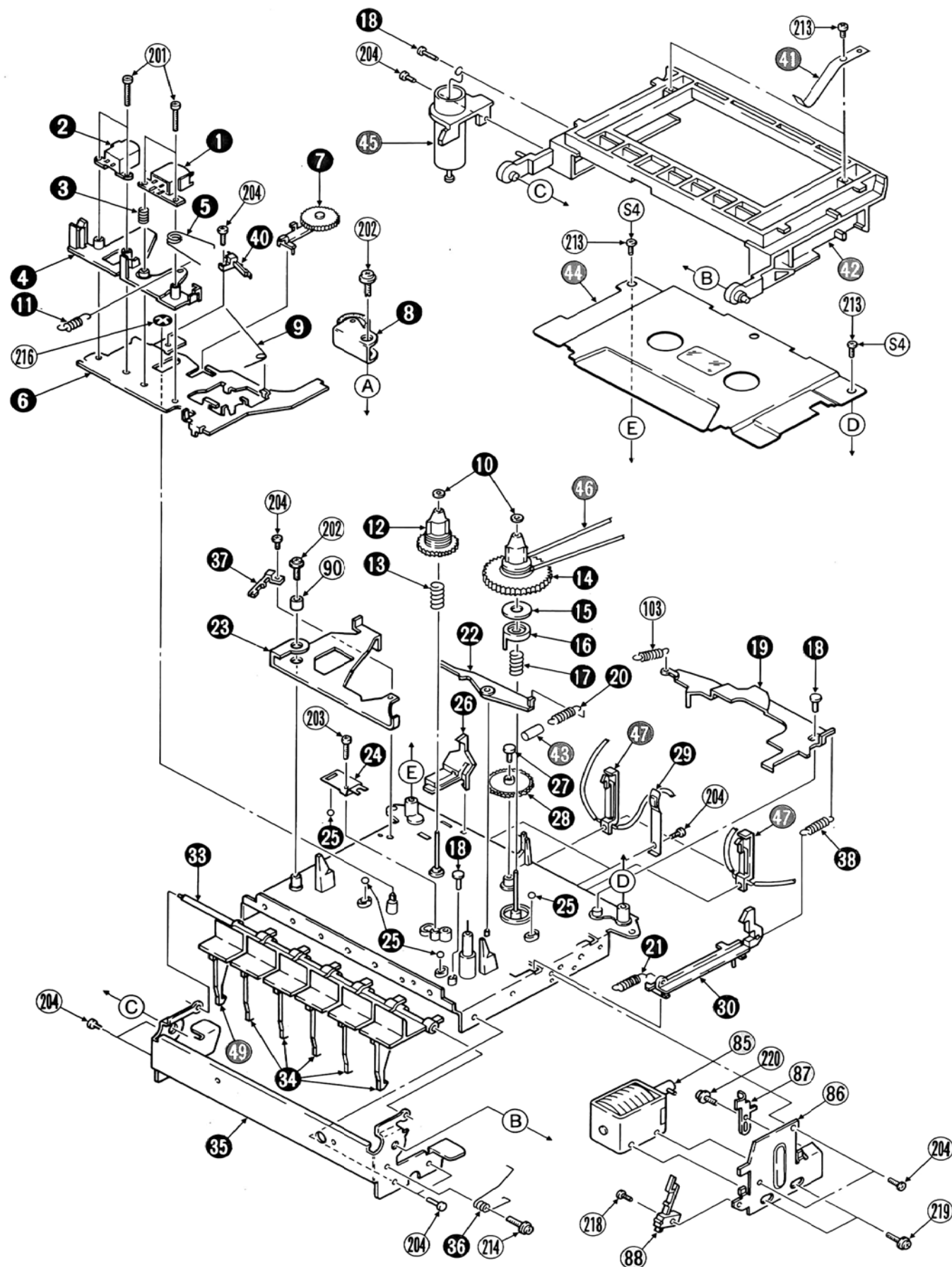
7-2. Rear View of A Side Mechanism Chassis



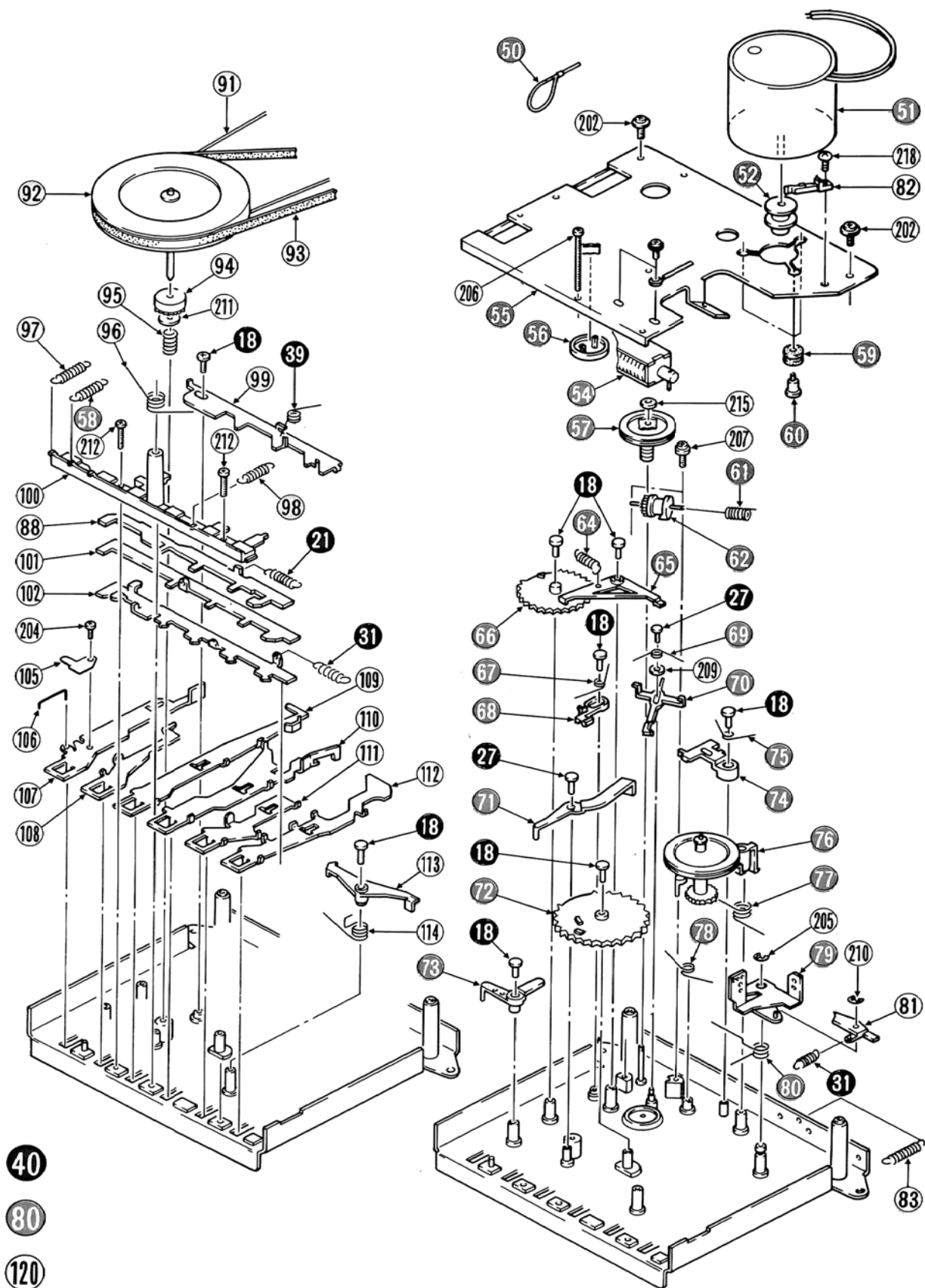
• Though every part included in mechanism ass'y is numbered in exploded view, part unlisted in the parts list are not supplied.

1 ~ 40
41 ~ 80
81 ~ 120
201 ~ 220

7-3. Front View of B Side Mechanism Chassis



7-4. Rear View of B Side Mechanism Chassis



• Though every part included in mechanism ass'y is numbered in exploded view, part unlisted in the parts list are not supplied.

- 1 ~ 40
41 ~ 80
81 ~ 120
201 ~ 220

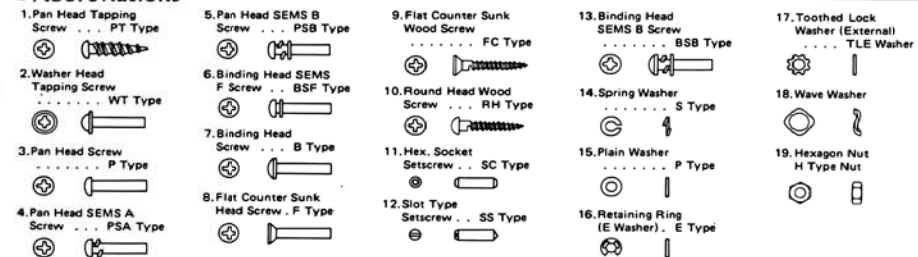
Parts List <7-1, 7-2, 7-3, 7-4>

Parts No.	Stock No.	Description
1	07997300	REC/P.B. Head
2	07997400	Erase Head (B Mecha)
	47076100	Dummy Head (A Mecha)
3	09409700	C. Spring
4	07997500	Head Stand
5	07997600	Spring
7	47076200	Idler Ass'y
8	07997800	Pinch Roller Arm Ass'y
9	07997900	Spring
10	09417300	Washer
11	07998000	T. Spring
12	09410100	Supply Reel Hub
13	47076300	S Brake Spring
14	07998100	Take Up Reel Hub Ass'y
15	09425100	Friction Plate
16	07998200	Clutch Plate
17	09425100	C. Spring
18	07998300	Rivet
19	07998400	Brake
20	07998500	T. Spring
21	09409500	T. Spring
22	07998600	Pause Arm
24	07998800	Holder Plate
25	65400300	Steel Ball
26	07998900	REC Sensor Lever (B Mecha only)
27	07999000	Rivet
28	07999100	Idler Gear
29	07999200	Cassette Holder
30	07999300	Latch Lever
31	07999400	T. Spring
34	07999600	Control Button Lever (Black)
	07999700	Control Button Lever (Silver)
36	07999900	Spring
37	47000400	Leaf Switch
38	47076500	T. Spring
39	47000000	Spring
40	09413600	Leaf Switch
41	09416100	Keep Plate
42	47000100	Cassette Case
44	47000200	Mechanism Cover
45	47000300	Cylinder Ass'y
46	47077200	Belt, Counter (B Mecha only)
47	47000500	Leaf Switch
49	07999800	Control Button Lever (Orange)
		(B Mecha only)
51	07721100	Motor
52	47000600	Pulley
54	47076600	Solenoid
56	47000800	Capstan Support
57	47000900	Worm Gear
58	47001000	T. Spring
59	47001100	Rubber Cushion
60	47001200	SD Screw
61	09410800	C. Spring
62	47001300	AS Cam

Parts No.	Stock No.	Description
64	47001400	REW Spring
65	47076800	Start Lever B
66	47001600	Assist Gear C
67	47001700	Spring
68	47001800	Eject Sub Plate
69	47001900	Spring
70	47002000	Sensor
71	47002100	Stop Arm
72	47076900	Assist Gear A
73	47002300	Start Lever C (B Mecha only)
74	47002400	Sensor Arm
75	47002500	Spring
76	47002600	Tension Ass'y
77	47002700	Spring
78	47002800	Spring
80	47002900	Spring
81	47003000	Change Plate B (B Mecha only)
82	47077300	Leaf Switch (B Mecha only)
83	47003200	T. Spring
85	47076700	Solenoid (B Mecha only)
88	47077400	Leaf Switch (B Mecha only)
91	47003300	Belt, Tension
92	47003400	Flywheel
93	47003500	Belt, Capstan
94	47003600	Flywheel Gear
95	47003700	C. Spring
96	47003800	Spring
97	47003900	T. Spring (B Mecha only)
98	47004000	T. Spring
100	47004100	Lever Holder
103	47077000	T. Spring
105	47004200	Pause Plate Spring (B Mecha only)
106	47004300	Lock Pin (B Mecha only)
113	47004400	Start Lever A
114	47004500	Spring
201	09416700	B-Type Screw, M2 x 11
202	47004600	FT-Type Screw, M2.6 x 8
203	09416400	PD-Type Screw, M2.6 x 10
204	07710600	PD-Type Screw, M2.6 x 5
205	00489300	E-Type Washer, D4 (B Mecha only)
206	47004700	PD-Type Screw, M2.6 x 30
207	09416500	WT-Type Screw, M2.6 x 6
208	47077100	Screw, M2.6 x 3
209	51825000	T-Type Washer, FT3.0 x 0.25
210	08322600	E-Type Washer, D2.5 (B Mecha only)
211	47004800	P-Type Washer
212	00440500	PT-Type Screw, M2.6 x 8
213	09418300	BT-Type Screw, M2 x 5
214	47031200	FT-Type Screw, M2.6 x 4
215	47004900	T-Type Washer
216	51832300	CS-Type Washer
217	00421300	DT Screw
218	00420700	DT Screw (B Mecha only)
219	00449100	Screw M3 x 5 (B Mecha only)
220	47077500	Screw (B Mecha only)

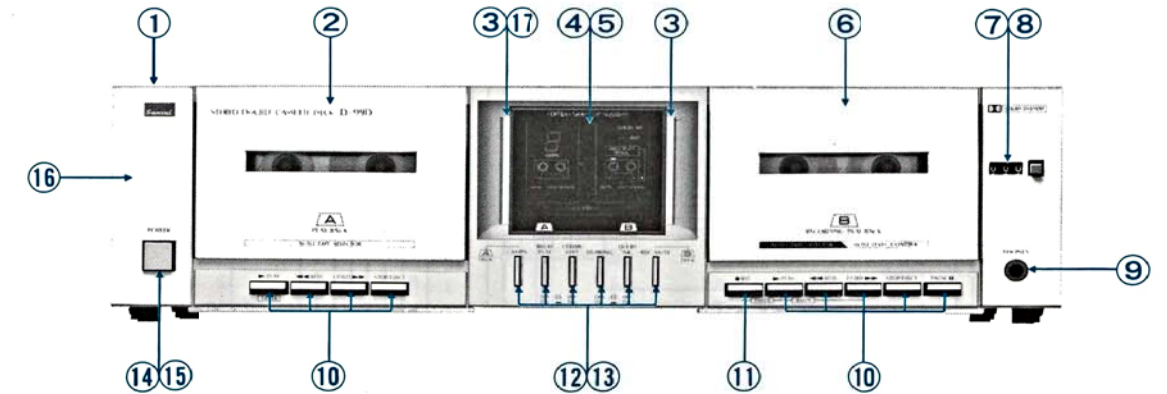
* FT-Type: Flange Head Tapping
PD-Type: Pan Head Deltite

● Abbreviations

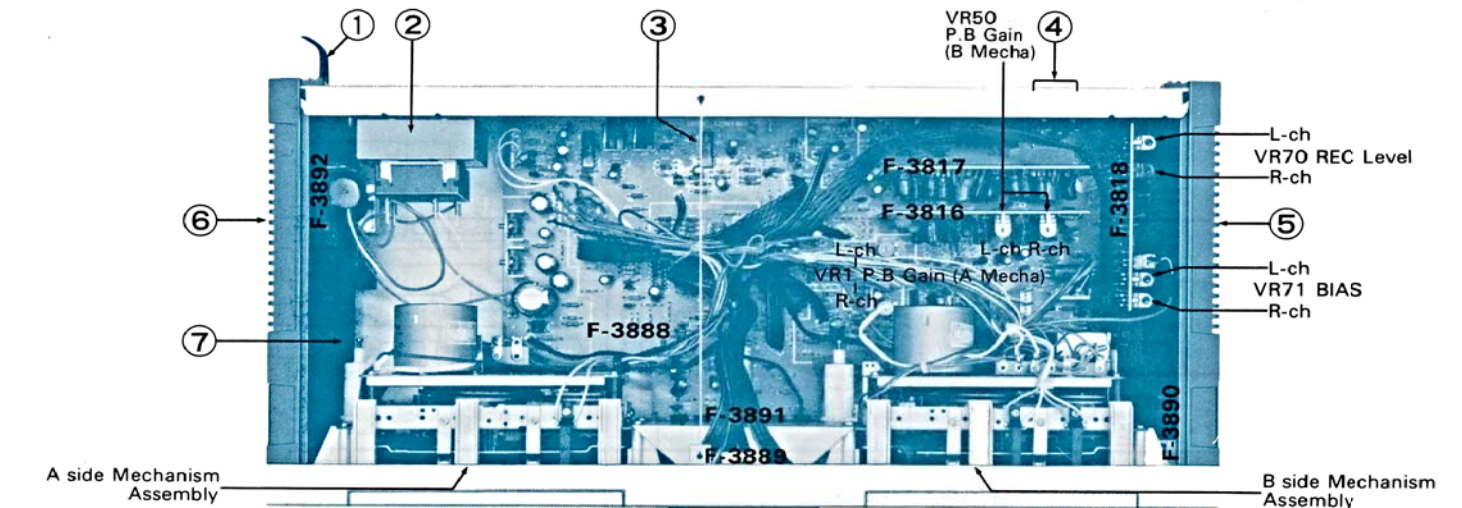


8. OTHER PARTS

8-1. Front View



8-2. Top View



Parts List <Front View>

Parts No.	Stock No.	Description
<Common Parts>		
1	07966900	Bonnet
3	07946800	Dress Knob
4	07946900	Display Cover (Smoked Plate)
5	07947000	Display Holder
7	46424300	Tape Counter
8	07976700	Tape Counter Belt
9	46265700	Headphone Jack
11	07998800	Control Lever (orange) (B Mecha)
12	46368400	Push SW., accessory
14	46360300	Push SW., POWER

<Silver Model>

Parts No.	Stock No.	Description
2	07966100	Cassette Lid Ass'y (A Mecha)
6	07966200	Cassette Lid Ass'y (B Mecha)
10	07999700	Control Lever
13	07910900	Push SW., Knob, accessory (DOLBY etc.)
15	07971200	Power SW., Knob
16	07987100	Front Panel
17	47029000	Display Panel

<Black Model>

Parts No.	Stock No.	Description
2	07966300	Cassette Lid Ass'y (A Mecha)
6	07966400	Cassette Lid Ass'y (B Mecha)

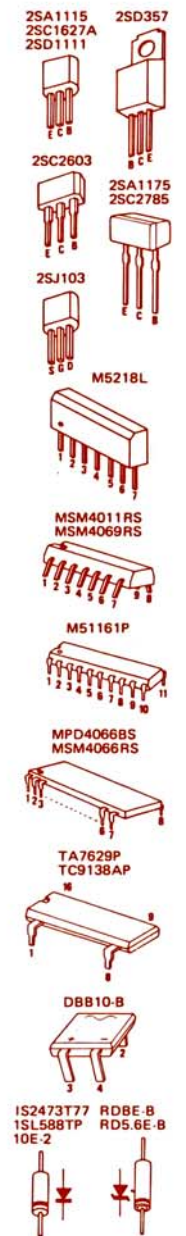
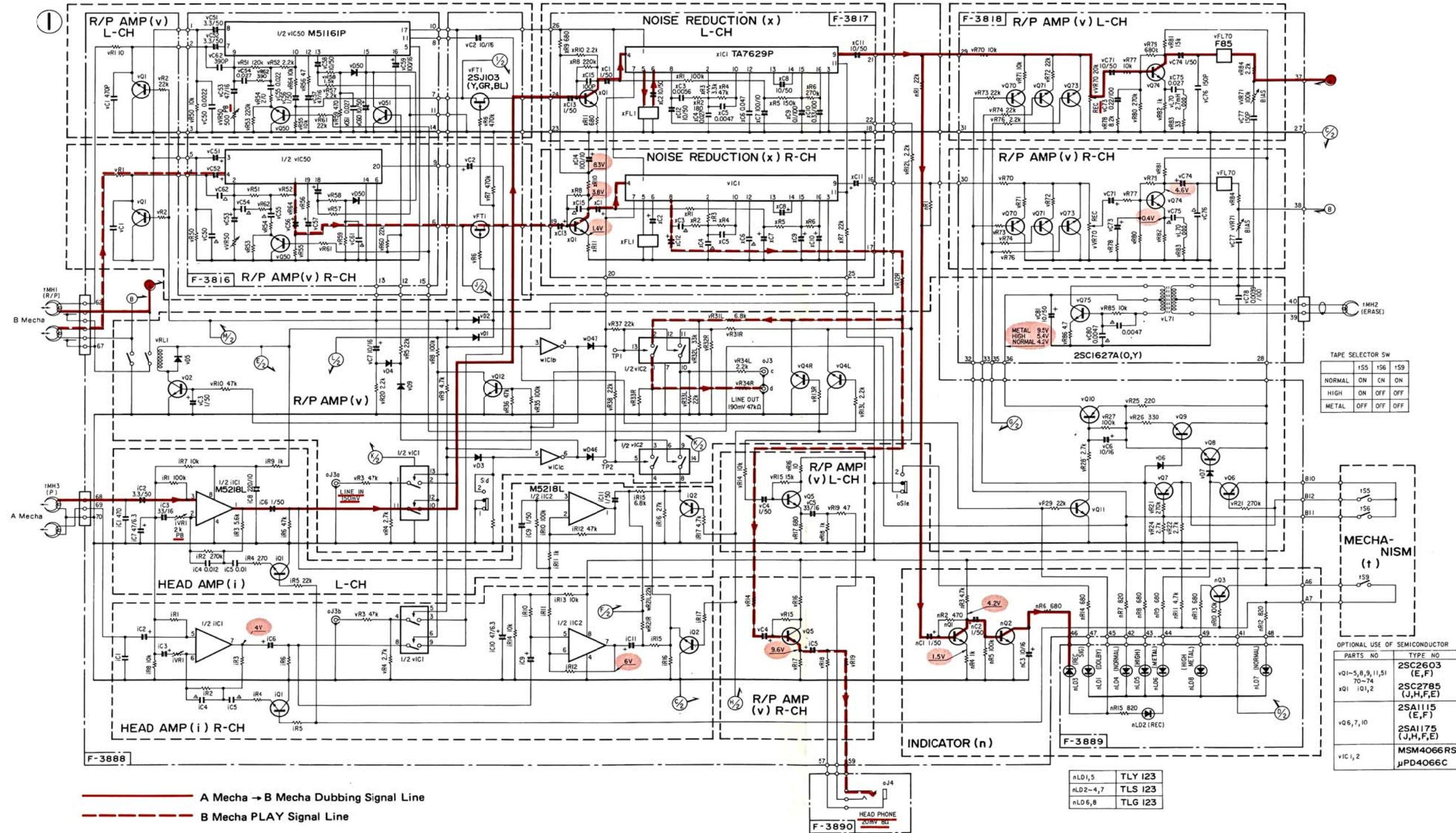
Parts No.	Stock No.	Description
10	07999600	Control Lever
13	07911000	Push SW., Knob, accessory (DOLBY etc.)
15	07911200	Power SW., Knob
16	07987200	Front Panel
17	07967400	Display Panel

Parts List <Top View>

Parts No.	Stock No.	Description
1	38005400	Power Supply Cord
2	15009001	Power Transformer
3		Tension Wire
4	46363800	4P Input Terminal, REC/PLAY
5	07952700	Side Panel Ass'y (Right)
6	07952600	Side Panel Ass'y (Left)
7	07920700	Joint Shaft, power SW.

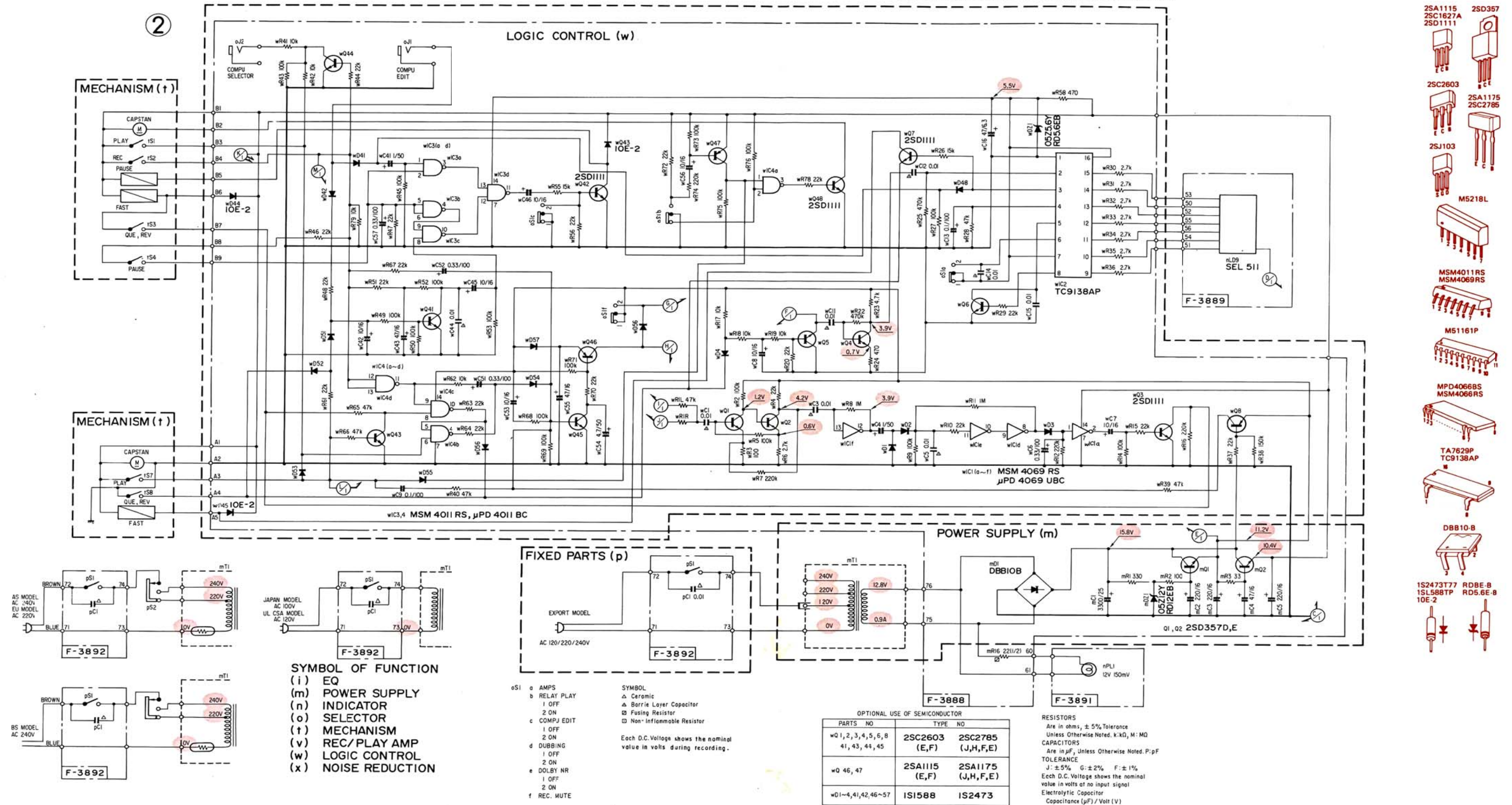
9. SCHEMATIC DIAGRAM 9-1. REC & PLAY Amplifier Section

*Design and specifications subject to change without notice for improvement.
 *La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 *Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



9-2. Mechanism Logic Control Section

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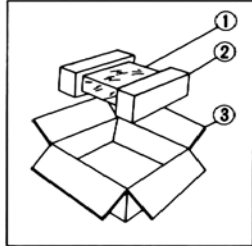


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D-99D

10. PACKING LIST

Parts No.	Stock No.	Description
1	91263810	Bivyl Bag
2	07949000	Styrofoam Packing
3	47028800	Carton Case (Silver)
	47028700	Carton Case (Black)



11. ACCESSORY LIST

Stock No.	Description
38103300	Pinplug Cord
46267300	Compu Edit. & Compu Selector Cord
94300500	Head Cleaner
46357400	Operating Instruction



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