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TC-95°

General Export Model





SPECIFICATIONS

Power Requirements:

AC 100, 110-120, 220-240V 50/60 Hz, 5W

DC 6V, Four "C" size standard

Free service manuals

flashlight batteries, SONY rechargeable battery pack BP-16 or Car battery with SONY car battery

cord DCC-126, 3W

Track System:

Two-track mono

Tape Cassette:

SONY tape cassette or equivalent

Tape Speed:

1 7/8 ips (4.8 cm/s)

Playing Time:

2.0 hrs total

(with C-120 tape cassette)

Frequency Response: 50~10,000 Hz

Signal-to-Noise Ratio:

45 dB or better

Bias Frequency:

Approx. 85 kHz

Power Output:

1.5W maximum

Inputs: MIC

Impedance: low impedance

Maximum Sensitivity: 0.2 mV (-72 dB)

AUX

Impedance: $100 \, k\Omega$

Maximum Sensitivity: 60 mV (-22 dB)

Outputs: MONITOR

Impedance: 8Ω or more

Output level: 0.775V (0 dB) with 10 kΩ load

Speaker:

4" (100 mm) dynamic speaker

Voice coil impedance: 8Ω

Semiconductors:

1 IC, 3 transistors and 4 diodes

Dimensions:

9 15/16 (W) x 2 3/4 (H) x 8 1/4" (D)

(252 x 69 x 209 mm)

Weight: 51b 8 oz (2.5 kg) with batteries

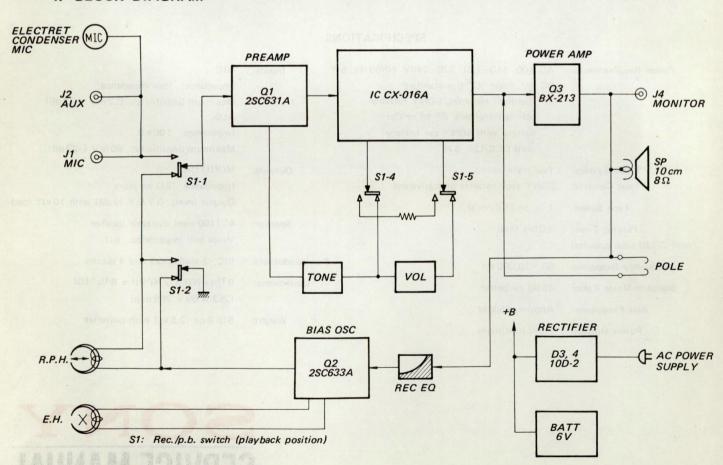


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1. BLOCK DIAGRAM



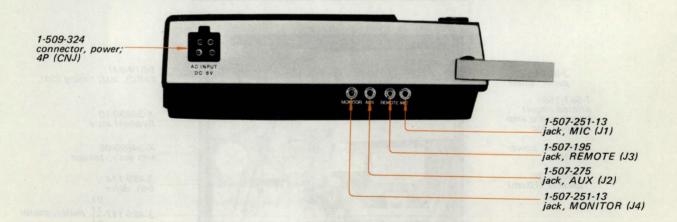
10/7/2016

2. CABINET - TOP VIEW -



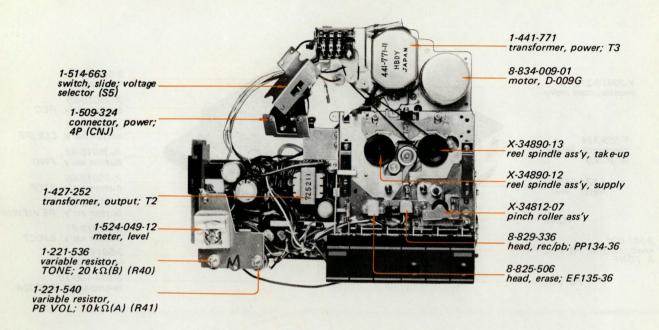


3. CABINET - SIDE VIEW -

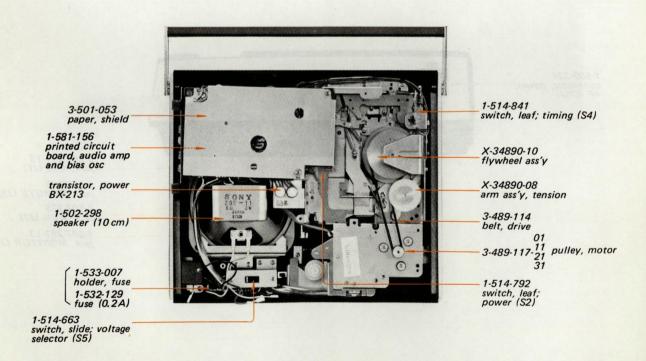


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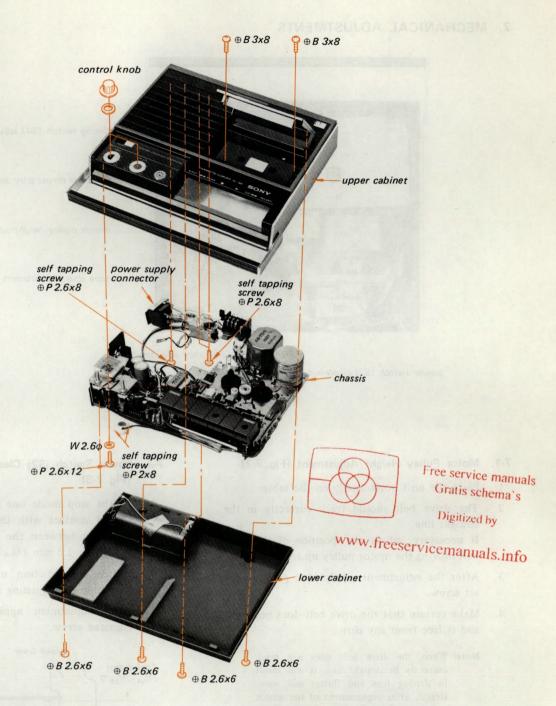
4. CHASSIS - TOP VIEW -



5. CHASSIS - BOTTOM VIEW -



6. DISASSEMBLY



6-1. Lower Cabinet Removal

Procedure:

- 1. Remove the four screws (# B 2.6x6).
- 2. Remove the three lead wires connected to battery box by pulling them out.
- 3. The lower cabinet will come free of the unit.

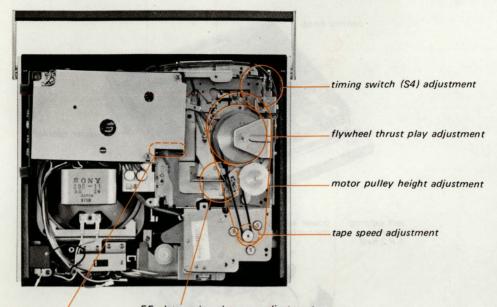
6-2. Upper Cabinet Removal

Procedure:

1. Pull out the two control knobs.

- 2. Remove the two screws (# B 3x8).
- 3. Remove the two self tapping screws (# P 2.6x8) securing the voltage selector.
- 4. Remove the two self tapping screws (# P 2x8) securing built-in microphone.
- 5. Remove the screw (⊕ PS 2.6×12).
- 6. Remove the self tapping screw (#P 2.6x8) securing power supply connector.
- Remove the two lead wires connected to speaker by pulling them out.
- 8. The upper cabinet will come free of the unit.

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FF plate spring clearance adjustment

Fig. 7-1. Adjusting parts location

7-1. Motor Pulley Height Adjustment (Fig. 7-2)

- 1. Place the unit horizontally on the table.
- 2. The drive belt should track correctly in the straight line.

If necessary, adjust the position of the drive belt moving the motor pulley up and down.

- After the adjustment, apply lock paint to the set screw.
- Make certain that the drive belt does not twist and is free from any dirt.

Note: When the drive belt does not track correctly in straight line, it will result in driving loss and flutter and wow. Hence, after replacement of the motor pulley or flywheel, be sure to perform the above adjustment.

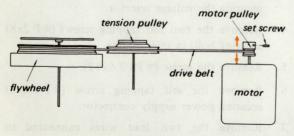
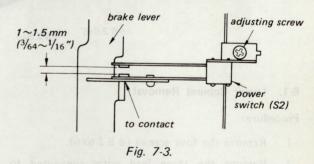


Fig. 7-2.

7-2. Power Switch (S2) Clearance Adjustment (Fig. 7-3)

- 1. In the stop mode one side of the leaf switch should contact with the brake lever and the clearance between the switch contacts should be 1.0 to 1.5 mm ($\frac{3}{64} \sim \frac{1}{16}$ ").
- 2. Adjust the position of the leaf switch by loosening the adjusting screw.
- 3. After adjustment apply lock paint to the adjusted screw.



7-3. Tape Speed Adjustment

Playing back the SONY alignment tape SPC-4
with 6V DC power supply or equivalent,
measure the output frequency at the
MONITOR jack with a frequency counter.

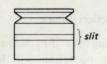
2. The frequency should be 980 to 1,025 Hz (1 kHz-2% to 1 kHz+2.5%).

Note: The frequency difference between the beginning and end portions of the tape should be within 10 Hz.

- If necessary, adjust by replacing the motor pulley with one of those in the following table.
- 4. After replacing the motor pulley, perform the Motor Pulley Height Adjustment on page 6.

MOTOR PULLEY

Part No.	Identification	Tape Speed
3-489-117-01	no slit	-2%
3-489-117-11	one slit	standard
3-489-117-21	two slits	+2%
3-489-117-31	three slits	-1%



7-4. Timing Switch (S4) Adjustment (Fig. 7-4)

- 1. Push and lock the record button.
- 2. One side of the leaf switch should contact with the record lever and the clearance between the switch contacts should be 1.0 to 1.5 mm $(3/64 \sim 1/16)$.

Adjust by loosening the adjusting screws.

After adjustment apply lock paint to the screws.

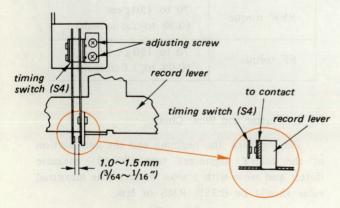
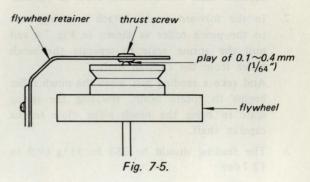


Fig. 7-4.

7-5. Flywheel Thrust Play Adjustment (Fig. 7-5)

Adjust the thrust screw for play of 0.1 to $0.4 \text{ mm} (\frac{1}{64})$ between the thrust screw and the flywheel.



7-6. FF Plate Spring Clearance Adjustment (Fig. 7-6 and Fig. 7-7)

- In the stop mode, clearance between the roller and the FF plate spring should be 0 to 0.5 mm (1/64") and the FF plate spring should be flush with the roller as shown in Fig. 7-7. If necessary, adjust the clearance by bending the portion "a" of the FF plate spring.
- After adjustment make certain that the takeup reel table begins to rotate before the FF button is locked.

Wider clearance will result in rotation of the take-up reel table after the FF button is locked.

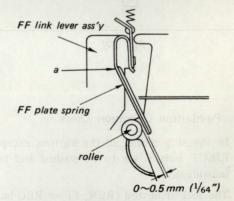


Fig. 7-6.

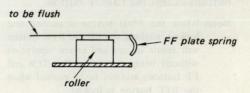


Fig. 7-7.

7-7. Check After Adjustment

7-7-1. Pinch Roller Pressure Check

- Make certain that the pinch roller and the capstan shaft contact each other in parallel.
- In the forward mode, attach a spring scale to the pinch roller as shown in Fig. 7-8 and pull the spring scale to separate the pinch roller from the capstan shaft.

And take a reading just when the pinch roller begins to rotate again, releasing the spring scale to bring the pinch roller close to the capstan shaft.

3. The reading should be 285 to 355g (9.9 to 12.7 oz).

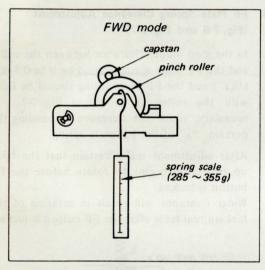


Fig. 7-8.

7-7-2. Pushbutton Operation Check

- In the stop mode, all the buttons except the EJECT button are to be pushed and locked individually.
- The locked button (REW, FF or REC button) is to be released by pushing one of the other buttons except the EJECT button.

Note: When the FWD button is pushed and locked, pushing the FF and REW button will result in cue and review operation without being released. The REW and FF buttons are not to be pushed when the REC button is locked.

- 3. The FWD and FF buttons are not to be locked simultaneously.
- The FWD and REW buttons are not to be locked simultaneously.
- 5. The REC and FF buttons are not to be locked simultaneously.
- 6. The REC and REW buttons are not to be locked simultaneously.

7-7-3. Review Function Check

When pushing the REW button slowly in the FWD mode, review operation will be performed according to the following sequence and when releasing the button, the review operation will be released according to the reverse sequence.

- 1. Pinch roller separates from capstan shaft.
- 2. Rotation of take-up reel spindle stops.
- 3. Supply reel table starts to rotate.

7-7-4. Cue Function Check

When pushing the FF button slowly in the FWD mode, cue operation will be performed according to the following sequence, and when releasing the button, the cue operation will be released according to the reverse sequence.

- 1. Pinch roller separates from capstan shaft.
- Take-up reel spindle rotates at the same speed as in the FF mode.

7-7-5. Torque Check

Each torque should meet the following value.

FWD torque	40 to 60 g·cm (0.56 to 0.85 oz·inch)
REW torque	70 to 150 g·cm (0.98 to 2.0 oz·inch)
FF torque	70 to 150 g·cm (0.98 to 2.0 oz·inch)

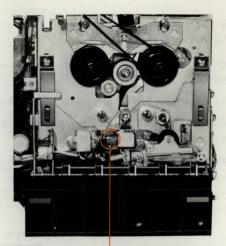
7-7-6. Flutter and Wow Check

Playing back the begining and the end portion of the SONY alignment tape (WS-48), measure flutter and wow with a wow meter. The measured value should be 0.35% RMS or less.

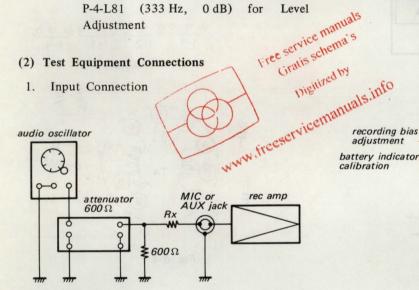
8. ELECTRICAL ADJUSTMENTS AND **MEASUREMENTS**

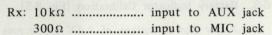
(1) Necessary Test Equipments

- Audio oscillator
- Attenuator (600Ω)
- **VTVM** 3.
- Resistors; 8Ω (10W), 300Ω (¼W), $10k\Omega$ (¼W)
- Blank tape cassette C-60 (completely erased with a bulk eraser)
- SONY alignment tapes P-4-A81 (6.3 kHz, -10 dB) for Azimuth Adjustment P-4-L81 (333 Hz, 0 dB) for Adjustment



PB head azimuth adjustment

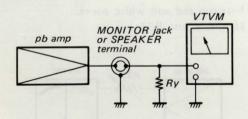




Precautions

- 1. Before adjustments, clean the heads with soft cloth moistened with denatured alcohol and demagnetize them using a head demagnetizer (SONY Model HE-2).
- 2. Adjustments should be performed in order.
- After adjustments, apply lock paint to the each adjusted part.
- Deliver input signals to the MIC jack with the TONE control turned extremely clockwise, unless otherwise specified.
- 5. Normal position of PB VOLume: Playing back the SONY alignment tape (P-4-L81) the PB VOLume is to be set at a position to obtain +2 dB reading on the VTVM connected between the speaker terminals.

Output Connection



Ry: 80 (10W) output from terminals 10kΩ (¼W) output from MONITOR jack

8-1. PB Head Azimuth Adjustment (Fig. 8-1 and Fig. 8-2)

- Set the PB VOLume to the prescribed normal position.
- 2. Play back the SONY alignment tape P-4-A81.
- 3. Adjust the azimuth adjusting screw for maximum reading on the VTVM.

Note: Several peaks may appear, adjust for the biggest peak as shown in Fig. 8-2.

Setup:

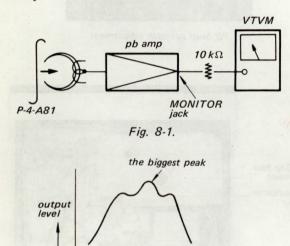


Fig. 8-2.

angle of turns

8-2. Recording Bias Adjustment (Fig. 8-3 and Fig. 8-4)

- Set the TONE control to the mechanical mid position.
- Deliver 1 kHz and 6 kHz signals of -80 dB (77 μV) to the MIC jack and record them on a blank tape cassette.
- When playing back the recorded portion the output of 6 kHz signal should be within 0± 2 dB against that of 1 kHz signal.
- 4. If necessary, repeat the above steps 2 and 3 changing the connection of tap of bias osc transformer as shown in Fig. 8-4.

 When the output of 6 kHz signal is higher than that of 1 kHz signal, connect the tap 9 in Fig. 8-4. When the former is lower than the later, connect the tap 7 in Fig. 8-4.

Setup:

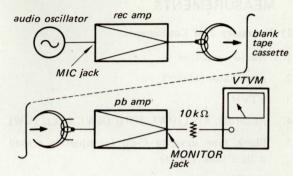


Fig. 8-3.

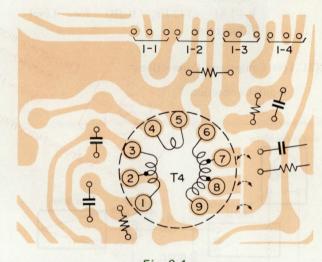


Fig. 8-4.

8-3. Battery Indicator Calibration (Fig. 8-5)

- 1. Apply power voltage of 4.4 V DC across the unit as shown in Fig. 8-5.
- When placing the unit in the playback mode, the indicator should indicate the boundary between red and white zones.
 If not, adjust R33.

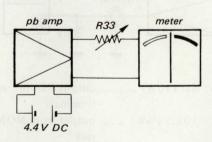


Fig. 8-5.

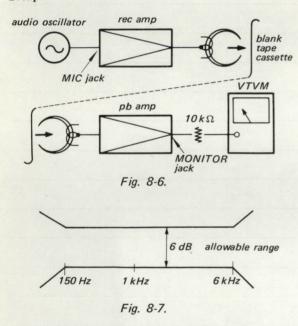
8-4. Check after Adjustments

8-4-1. Overall Frequency Response Measurement (Fig. 8-6 and Fig. 8-7)

- Deliver 1 kHz, 150 Hz, and 6 kHz signals of -80 dB (77 μV) to the MIC jack and record them on a blank tape cassette.
- 2. Playing back the recorded 1 kHz signal, set the PB VOLume for -10 dB (0.24 V) on the VTVM connected as shown in Fig. 8-6.
- Continue to play back the recorded portion and measure the output level of each frequency.
- The output level should meet the following specification in Fig. 8-7.

Note: TONE control is to be set at a proper position to meet the specification.

Setup:



8-4-2. Overall S/N Ratio Measurement (Fig. 8-8)

- Deliver a 1 kHz signal of -60 dB (0.77 mV) to the MIC jack and record it on a blank tape cassette.
- 2. Disconnect the audio oscillator and connect a dummy resistor of $300\,\Omega$ across the MIC jack.
- 3. Place the unit in the record mode with no input signal.

- 4. Set the PB VOLume in the prescribed normal position and play back the portion recorded in the step 1 and 3.
- 5. Check the difference between the two output levels using the VTVM.
- 6. The difference should be more than 40 dB when operated on batteries or more than 36 dB when operated on ac power supply.

Setup:

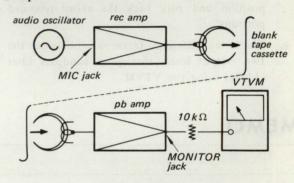


Fig. 8-8.

8-4-3. Overall Maximum Output Measurement (Fig. 8-9)

- Deliver a 1 kHz signal of -60 dB (0.77 mV) to the MIC jack and record it on a blank tape cassette.
- Playing back the recorded portion, measure the output level on the VTVM with the TONE and PB VOLume turned extremely clockwise.
- 3. The output should be more than 11 dB (2.75 V) when operated on batteries or more than 9 dB (2.2 V) when operated on ac power supply.

Setup:

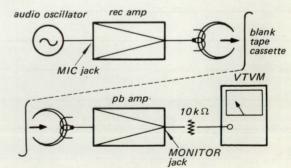


Fig. 8-9.

MEMO

8-4-4. Erase Ratio Measurement (Fig. 8-10)

- Deliver a 1 kHz signal of -30 dB (24.5 mV) to the MIC jack and record it on a blank tape cassette.
- 2. Rewind a half of the recorded portion of the tape, terminate the MIC jack with a dummy resistor of 300Ω and then erase the rewound portion (record mode with no input signal).
- Set the PB VOLume in the prescribed normal position and play back the above recorded portions.
- Check the difference (erase ratio) between the two output levels through a bandpass filter (1 kHz) using the VTVM.

5. The difference should be more than 60 dB.

Setup:

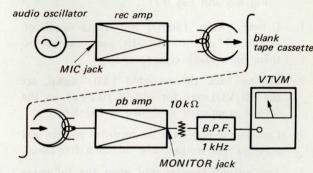


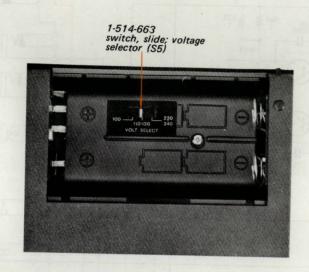
Fig. 8-10.

MEMO					
		••••••	 	•••••	
	2081				

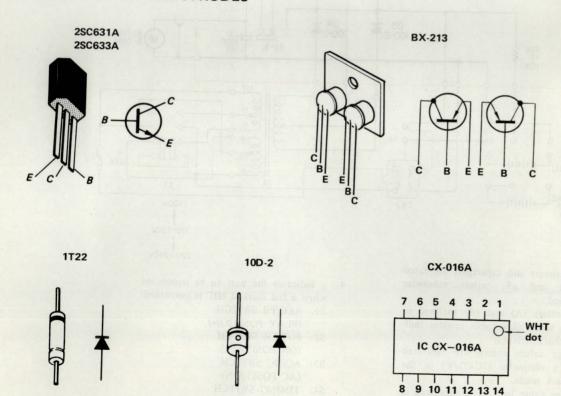
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VI when operated on as power supply.	. Squis8.	/993.0	Yanki Pig 87	(931 X
VI when operated on as power supply.	. Squis8.	/993.0	Yanki Pig 87	(931 X
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ylame mang se no beteredo noda (V)	igniss .	9 115 1 1 1 1 1 1	Fig. 8.7.	2012-000
ylame mang se no beteredo noda (V)	igniss .	9 115 1 1 1 1 1 1	Fig. 8.7.	2012-000

9. ADAPTATION TO THE LOCAL POWER LINE

To adapt the unit to your local power line voltage, take out batteries and slide the voltage selector located inside the battery box with a small screw driver and set it to your local power line voltage, 100, 110-120 or 220-240V.

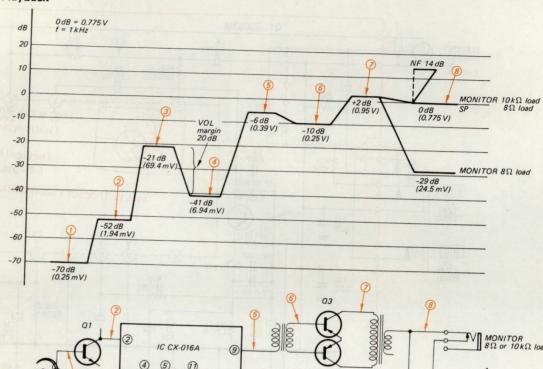


10. SEMICONDUCTOR ELECTRODES

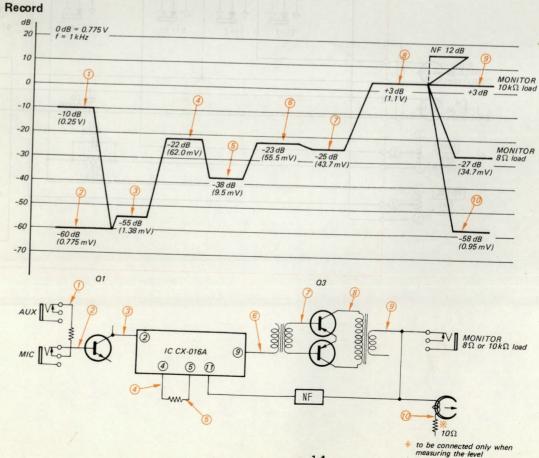


11. LEVEL DIAGRAM

11-1. Playback



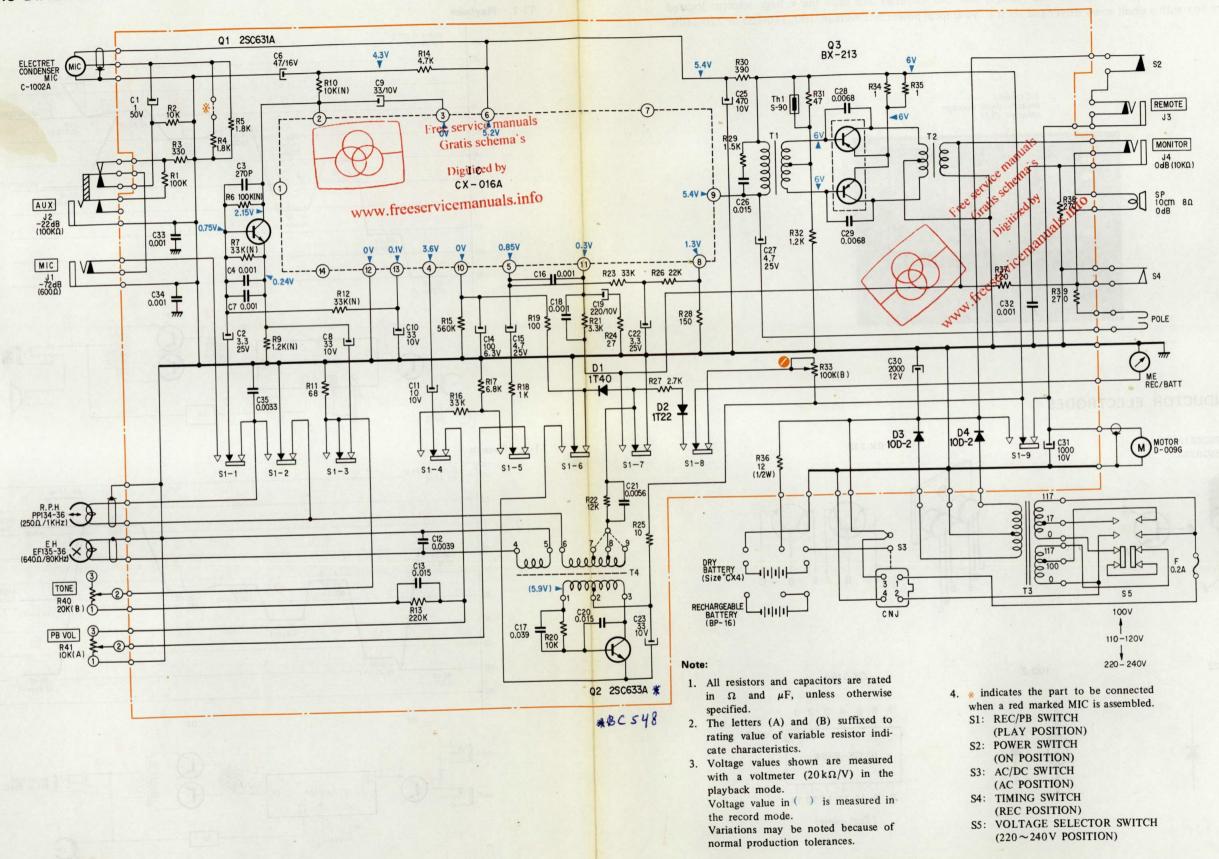
11-2. Record

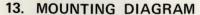


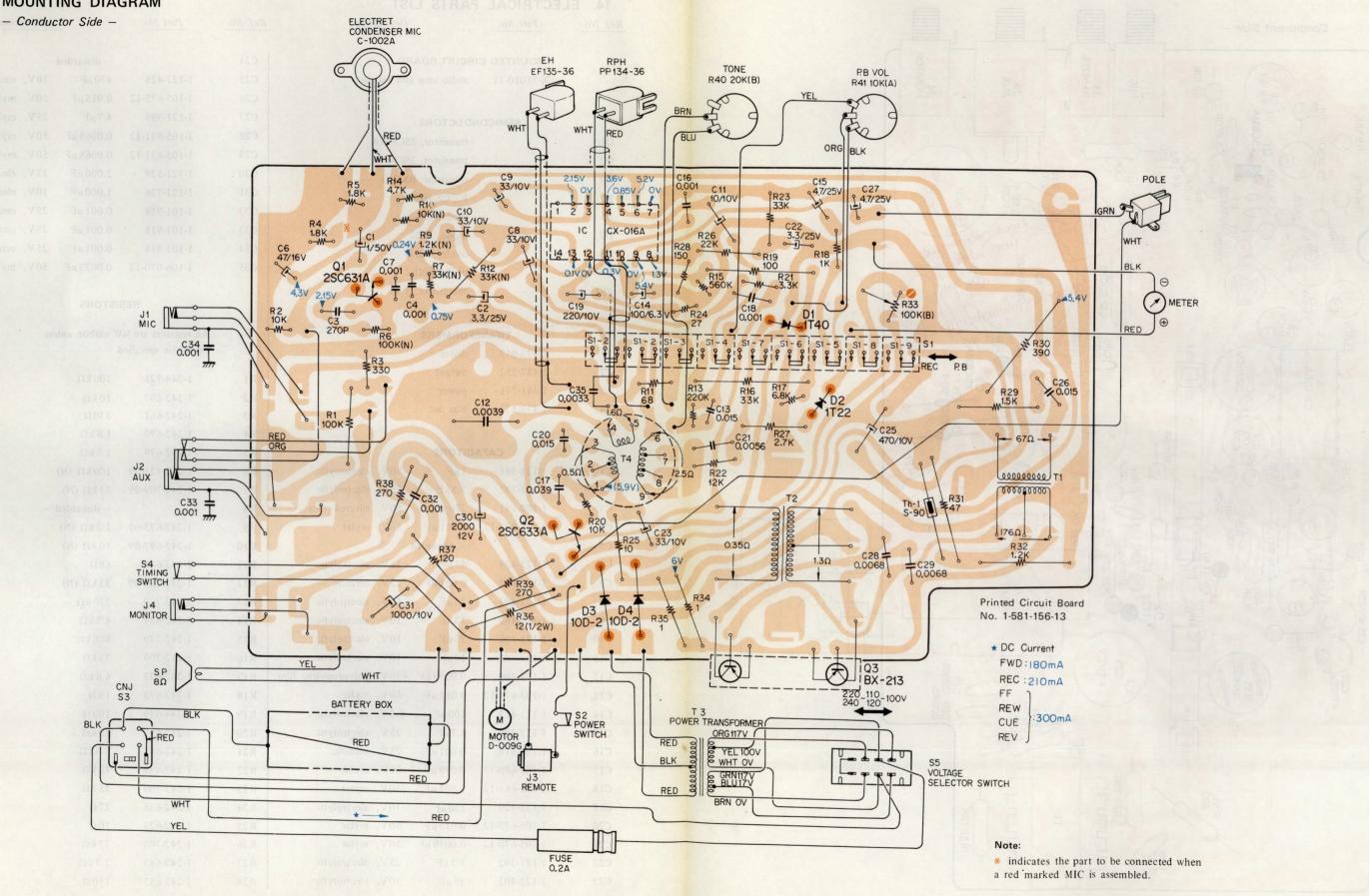
- 14 -

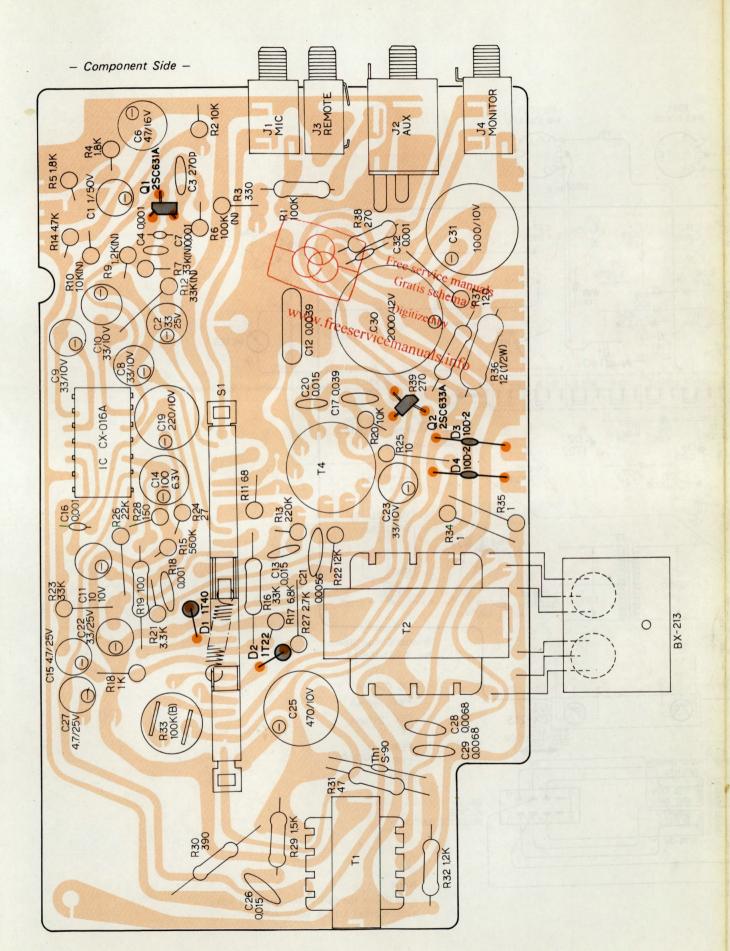
(Top view)

12. SCHEMATIC DIAGRAM









14. EI	LECTRICAL	PARTS L	IST						
Ref. No.	Part No.		Descrip	otion	Ref. No.	Part No.		Descrip	otion
	MOUNTED C	IRCUIT BOA	RD		C24		discarded	_	
	X-35010-21	audio amp	and bias	osc	C25	1-121-425	470 μF	10V,	electrolyt
					C26	1-105-675-12	0.015 μF	50V,	mylar
	CEMICO	NDUCTORS			C27	1-121-395	4.7 μF	25 V,	mylar
01	SEMICO	transistor,	25C631/	N. S.	C28	1-105-831-12	$0.0068\mu\mathrm{F}$	50V,	mylar
Q1		transistor, 2			C29	1-105-831-12	$0.0068\mu\mathrm{F}$	50V,	mylar
Q2		transistor, l			C30	1-121-529	2,000 µF	12V,	electrolyt
Q3 IC		IC, CX-016			C31	1-121-736	1,000 µF	10V,	electroly
D1		diode, 1T4			C32	1-101-918	$0.001\mu\mathrm{F}$	25 V,	ceramic
D2		diode, 1T2			C33	1-101-918	$0.001\mu\mathrm{F}$	25 V,	ceramic
D2		diode, 112			C34	1-101-918	$0.001\mu\mathrm{F}$	25 V,	ceramic
D3		diode, 10D			C35	1-106-070-12	$0.0033\mu\mathrm{F}$	50V,	mylar
Th1		thermistor,							
1111		thermistor,	3-90			RES	SISTORS		
	TRANS	SFORMERS			1/	All resistors are 1/4	W carbon unl	ess	
T1	1-423-049	driver			M	otherwise specified	i.		
Т2	1-427-252	output			R1	1-244-721	100 kΩ		
Т3	1-441-771	power							
T4	1-433-132	bias osc.			R2 R3	1-242-697 1-242-661	10 kΩ 330 Ω		
					R4	1-242-679	1.8 kΩ		
	CAP	ACITORS			R5	1-242-679	1.8 kΩ		
Cl	1-121-391	1 μF	50V	electrolytic	R6	1-242-079	1.0 kΩ (N)		
C2	1-121-391	3.3 µF		electrolytic	R7	1-242-709-09	33 kΩ (N)		
C2	1-121-392	270 pF		silvered mica	R8	1-242-709-09	- discarded		
C4	1-105-821-12	0.001 µF		mylar	R9	1-242-675-09	1.2 kΩ (N)		
C5	1 103 021 12	- discarded		my iai	R10	1-242-697-09	10kΩ (N)		
C6	1-121-409	47 μF		electrolytic	R11	1-242-645	68Ω		
C7	1-101-918	0.001 µF		ceramic	R12	1-242-709-09	33 kΩ (N)		
C8	1-121-402	33 μF		electrolytic	R13	1-242-729	220 kΩ		
C9	1-121-402	33 μF	ACCOUNT.	electrolytic	R14	1-242-689	4.7 kΩ		
C10	1-121-402	33 μF		electrolytic	R15	1-242-739	560 kΩ		
C11	1-121-469	10μF		electrolytic	R16	1-242-709	33 kΩ		
C12	1-129-709	0.0039 μF		polypropylene film	R17	1-242-693	6.8 kΩ		
C13	1-105-675-12	0.005 μF		mylar	R18	1-242-673	1 kΩ		
C14	1-121-413	100 μF		electrolytic	R19	1-244-649	100 Ω		
C15	1-121-395	4.7 μF		electrolytic	R20	1-242-697	10kΩ		
C16	1-101-918	0.001 µF		ceramic	R21	1-242-685	3.3 kΩ		
C17	1-105-680-12	0.039 µF		mylar	R22	1-242-699	12 kΩ		
C17	1-105-661-12	0.001 µF		mylar	R23	1-242-709	33 kΩ		
C19	1-121-420	220 μF		electrolytic	R24	1-242-635	27Ω		
C20	1-105-675-12	0.015 μF		mylar	R25	1-242-625	10Ω		
C21	1-105-670-12	0.0056 μF		mylar	R26	1-242-705	22 kΩ		
C22	1-121-392	3.3 μF		electrolytic	R27	1-242-683	2.7 kΩ		
C23	1-121-402	33 μF		electrolytic	R28	1-242-653	150Ω		
			,		120	1 2 1 2 0 0 0 0 1 11	1000		tor

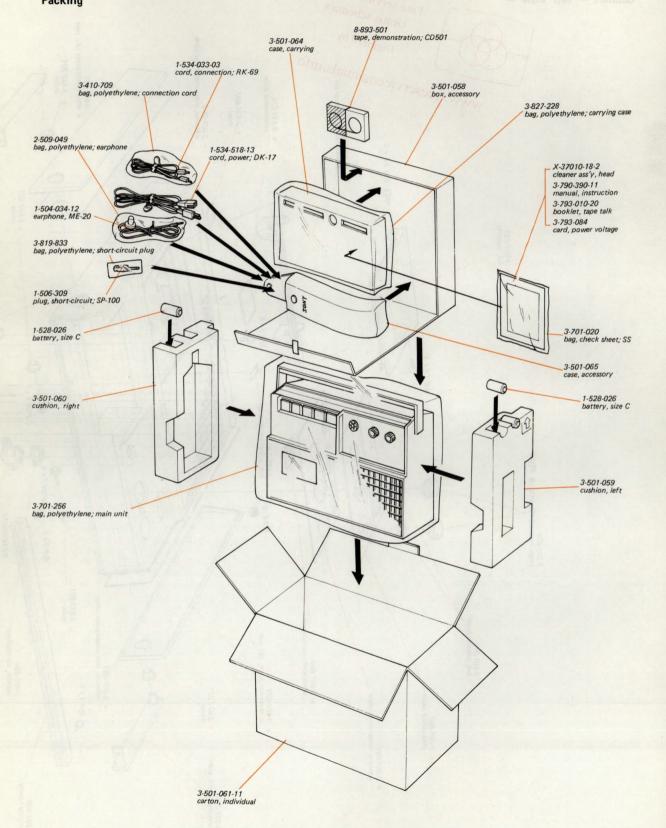
- 20 -

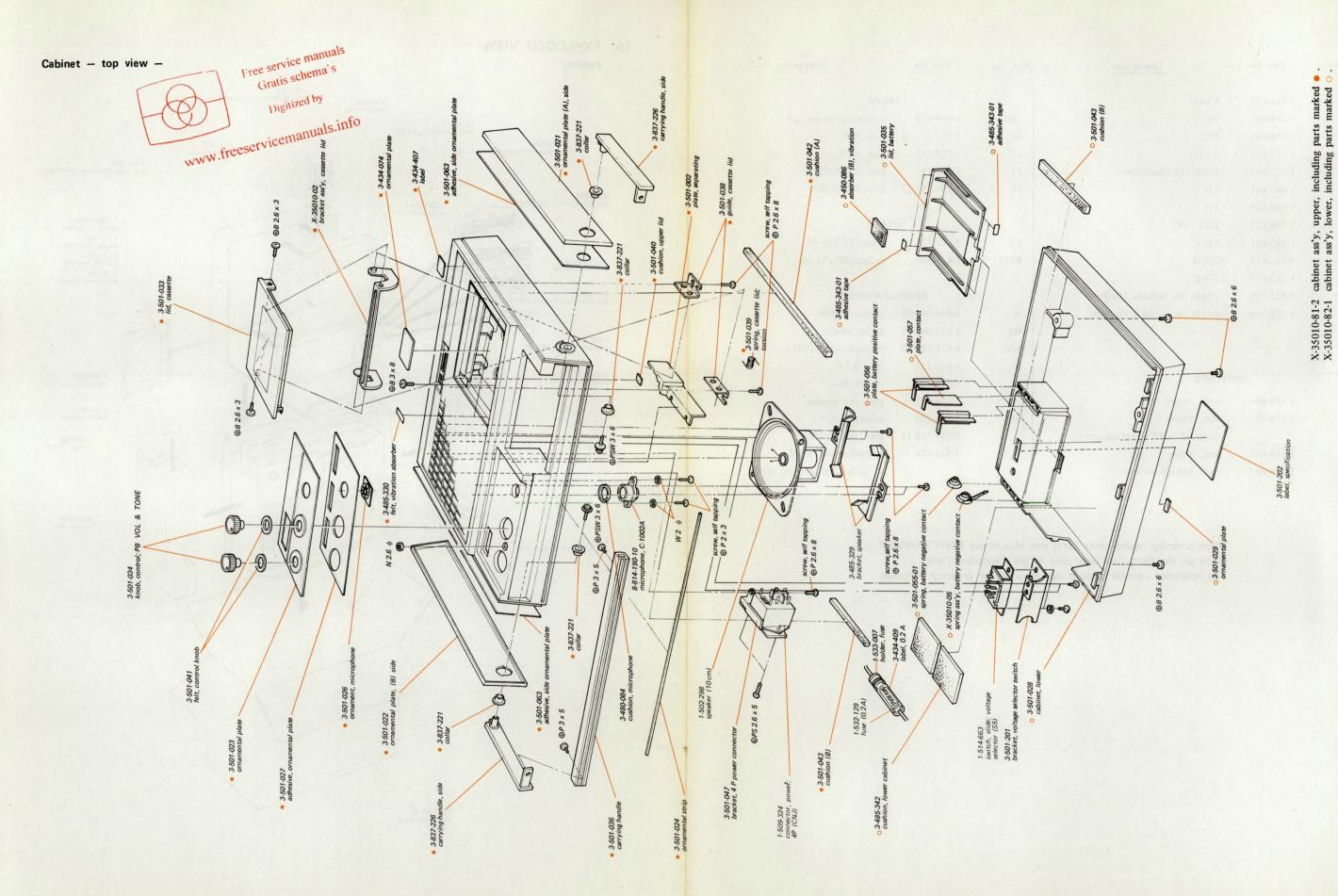
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R29	1-244-677	1.5 kΩ		J	ACKS
R30	1-244-663	390 Ω	CNJ	1-509-324	connector, power; 4P
R31	1-244-641	47Ω	J1	1-507-251-13	jack, MIC
R32	1-244-675	1.2 kΩ	J2	1-507-275	jack, AUX
R33	1-222-845	100 kΩ (B), semi-fixed	J3	1-507-195	jack, REMOTE
R34	1-242-601	1Ω	J4	1-507-251-13	jack, MONITOR
R35.	1-242-601	1Ω			
R36	1-244-827	12Ω, ½W		н	EADS
R37	1-242-651	120 Ω	EH	8-825-506	erase (EF 135-36)
R38	1-242-659	270 Ω	RPH	8-829-336	rec/pb (PP 134-36)
R39	1-242-659	270 Ω			
R40	1-221-536	20 kΩ (B), variable TONE		MISCE	LLANEOUS
R41	1-221-540	10kΩ (A), variable PB VOL	M	8-834-009-01	motor, D-009G
			ME	1-524-049-12	meter, level
			MIC	8-814-190-10	microphone, C-1002A
			F	1-532-129	fuse, 0.2A
	SV	VITCHES		1-533-007	holder, fuse
S1	1-514-454	slide, rec/pb		1-514-801	pole, end sensing
S2	1-514-792	leaf, power	SP	1-502-298	speaker (10 cm)
S3		included in 4P power connector		1-534-518-13	cord, power; DK-17
S4	1-514-841	leaf, timing		1-581-156	printed circuit board,
S5	1-514-663	slide, voltage selector	10)		audio amp and bias osc

When ordering replacement parts you should use PART NUMBER listed on the Parts List or shown in the Exploded View.

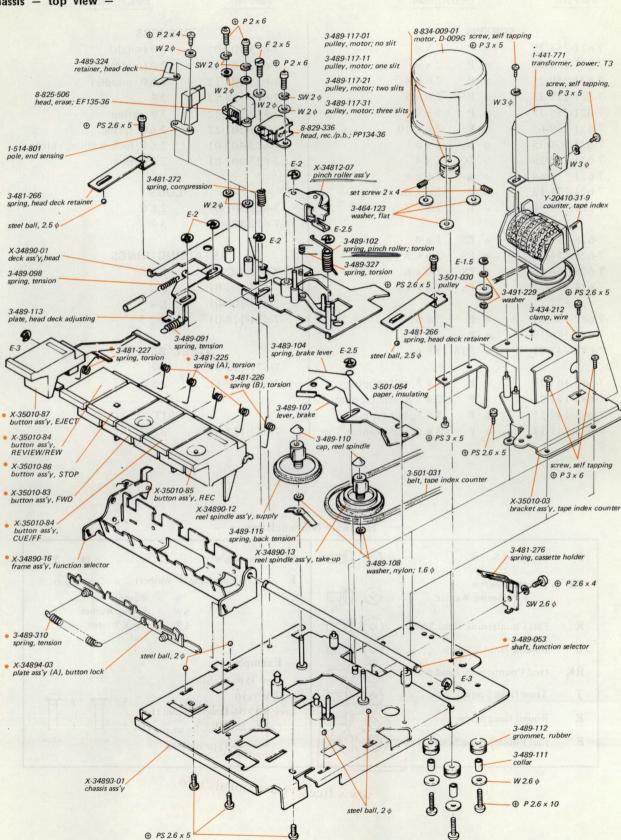
The reference number should not be used for ordering purposes.

15. EXPLODED VIEW Packing



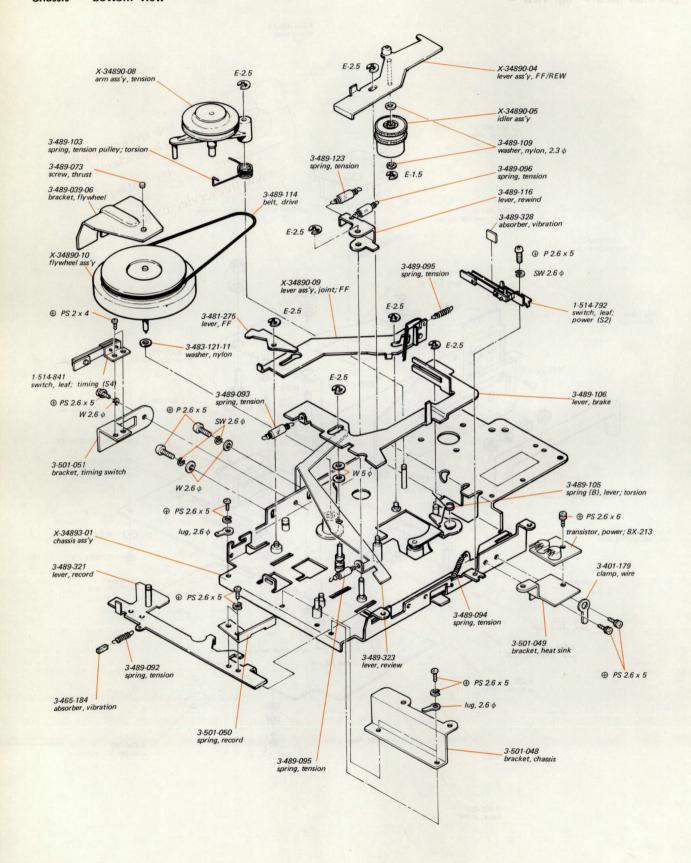


Chassis - top view -



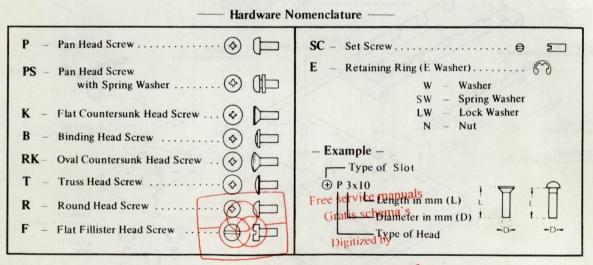
X-35010-04 pushbutton ass'y, complete; including parts marked .

Chassis - bottom view -



16. HARDWARES

Part No.	Desc	ription	Part No.	Description
	SCREWS		V	VASHERS
7-621-255-25	⊕ P	2 × 4	7-623-105-02	2ϕ (small)
7-621-255-45	⊕ P	2 x 6	7-623-105-12	2ϕ (middle)
7-621-259-25	⊕ P	2.6 x 4	7-623-107-12	2.6ϕ (middle)
7-621-259-33	⊕ P	2.6 x 5	7-623-108-12	3 φ
7-621-259-35	⊕ P	2.6 × 5	7-623-205-22	2ϕ , spring
7-621-259-65	⊕ P	2.6 x 10	7-623-207-22	2.6ϕ , spring
7-621-305-35	⊕ F	2 x 5	7-623-407-01	2.6ϕ , lock washer, external
7-621-710-39	⊕ SC	2 × 4	7-623-907-01	2.6ϕ , fiber
7-621-770-64	⊕ B	2.6 x 8	6	
7-621-771-13	⊕ B	2.6 x 6		LUGS
7-621-773-92	⊕ B	2.6 x 3	7-623-507-01	2.6ϕ
			7-623-508-11	3 φ
7-628-253-03	⊕ PS	2 × 4		
7-628-254-12	⊕ PS	2.6 x 5	RETAI	NING RINGS
7-628-254-15	⊕ PS	2.6 x 6	7-624-102-01	E-1.5
7-628-254-32	⊕ PS	2.6 x 10	7-624-104-01	E-2
			7-624-108-01	E-4
7-682-146-01	⊕ P	3 x 5	7-624-118-01	E-2.5
7-682-146-15	⊕ Р	3 x 5		
7-682-947-01	⊕ PSW	3 x 6	STE	EL BALLS
			7-671-112-01	2ϕ
7-685-105-21	⊕ P	2 x 8, self tapping	7-671-112-11	2.5ϕ
7-685-134-21	⊕ P	2.6 x 8, self tapping		
7-685-144-51	⊕ P	3 x 5, self tapping		NUT
7-685-145-51	⊕ P	3 × 6, self tapping	7-622-127-01	2.6 ¢



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