

AIWA®S/M Code No. 85-021 **W**

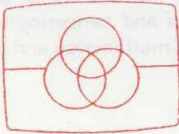
DATE OF ISSUE 5/1985

SERVICE MANUAL

STEREO CASSETTE RECIVER

MODEL NO.

CX-R10

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**TYPE. HB,EB,KB,GB**

SPECIFICATIONS

<Common>

Power requirements	CX-R10H: 120 V/220 V/240 V (switchable), 50/60 Hz CX-R10U: 120 V, 60 Hz CX-R10K,G: 240 V, 50/60 Hz CX-R10E: 220 V, 50/60 Hz
Power consumption	CX-R10E,K,G: 108 W CX-R10H: 45 W CX-R10U: 45 W
Dimensions	330(W)×210(H)×295(D)mm
Weight	5.9 kg
Accessories	FM feeder antenna AM loop antenna SW antenna (except U, C model)

<Amplifier section>

Power output	CX-R10E,G,K 20 W + 20 W (8 ohms, T.H.D. 1%, 1 kHz) CX-R10H 25 W + 25 W (8 ohms, EIAJ) FTC Rule U model only 20 Watts per channel, Min. RMS at 8 ohms, from 100 Hz — 20 kHz, with no more than 0.9% Total Harmonic Distortion. 45 Hz — 50 kHz
Frequency response (IHF)	AUX 1, AUX 2 : 85 dB
Signal-to-noise ratio	
Output terminals	
SPEAKERS	8 ohms
HEADPHONES	8 ohms
Input terminals	
(Sensitivity/impedance)	AUX 1: 300 mV/33 k ohms AUX 2: 440 mV/47 k ohms

<FM section> (IHF)

Frequency range	FM: 88 MHz to 108 MHz
Usable sensitivity (IHF)	6 μ V (300 ohms) 20.8 dBf
Alternate channel	
Selectivity	45 dB ($\pm$ 400 kHz)
Signal-to-noise ratio	76 dB (MONO)
Total harmonic distortion (1 kHz)	0.7% (MONO)
Frequency response	30 Hz to 15 kHz (+0.5, -1.5 dB)
Stereo separation	30 dB at 1 kHz
Antenna	75 ohms (unbalanced) 300 ohms (balanced)

<SW section> (except U,C model)

Frequency range	CX-R10H,G SW ₁ : 2.3 MHz to 7.0 MHz SW ₂ : 7.0 MHz to 22 MHz CX-R10E,K SW: 5.9 MHz to 18 MHz SW: 35 μ V SW ₁ : 300 μ V/m SW ₂ : 35 μ V
SW sensitivity	
Antenna	External antenna terminal

<MW (AM) section>

Frequency range	AM: 530 kHz to 1,605 kHz
MW (AM) sensitivity	CX-R10H,U,C,G 300 μ V/m CX-R10E,K 27 dB/9 kHz
Selectivity	53 dB (100 dB input)
Signal-to-noise ratio	Loop antenna
Antenna	External antenna terminals

<LW section> (E,K model only)

Frequency range	LW: 150 kHz to 285 kHz
LW sensitivity	800 μ V/m
Antenna	Loop antenna External antenna terminals

<Deck section>

Track format	4 tracks 2 channels
Frequency response	Normal tape: 40 — 13,000 Hz CrO ₂ tape: 40 — 15,000 Hz METAL tape: 40 — 16,000 Hz
Signal-to-noise ratio	54 dB (NORMAL tape DOLBY NR OFF)
Wow & flutter	0.2% (WRMS)
Tape speed	4.8 cm/sec. (1-7/8 ips)
Recording system	AC bias (frequency 85 kHz)
Erase system	AC erase
Motor	DC servomotor

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

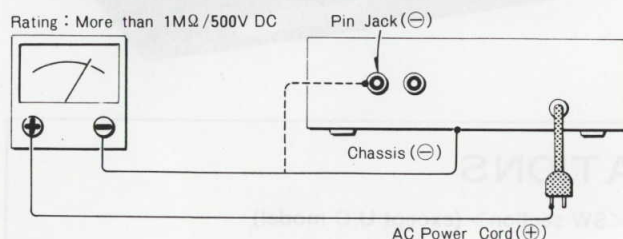
Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of service.

1. No scratch and melting shall be made to covered lead-wires of an a.c. primary circuit including mains leads.
2. No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.
3. When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.
4. The following matters shall be maintained as they are, when repairing.
 - 1) Soldering of lead-wire ends
 - * Care should be taken of the space distance in an a.c. primary circuit as well as soldering.
 - 2) Wiring and holding of lead-wires with wire-clips and binders
 - 3) Materials of lead-wires
 - * e.g.; For UL models, lead-wires to be used shall be approved or accepted by the UL.
 - 4) Location of all kinds of insulators
 - 5) Setting of voltage selector switch
 - * Set the Voltage Selector Switch to 240V, 220V, or 120V, According to your Local Voltage.
5. After repaired, the insulation resistance or leakage current shall be measured with $500 \pm 5V$ D.C and shall be not less than $1M\Omega$.

Measuring Point

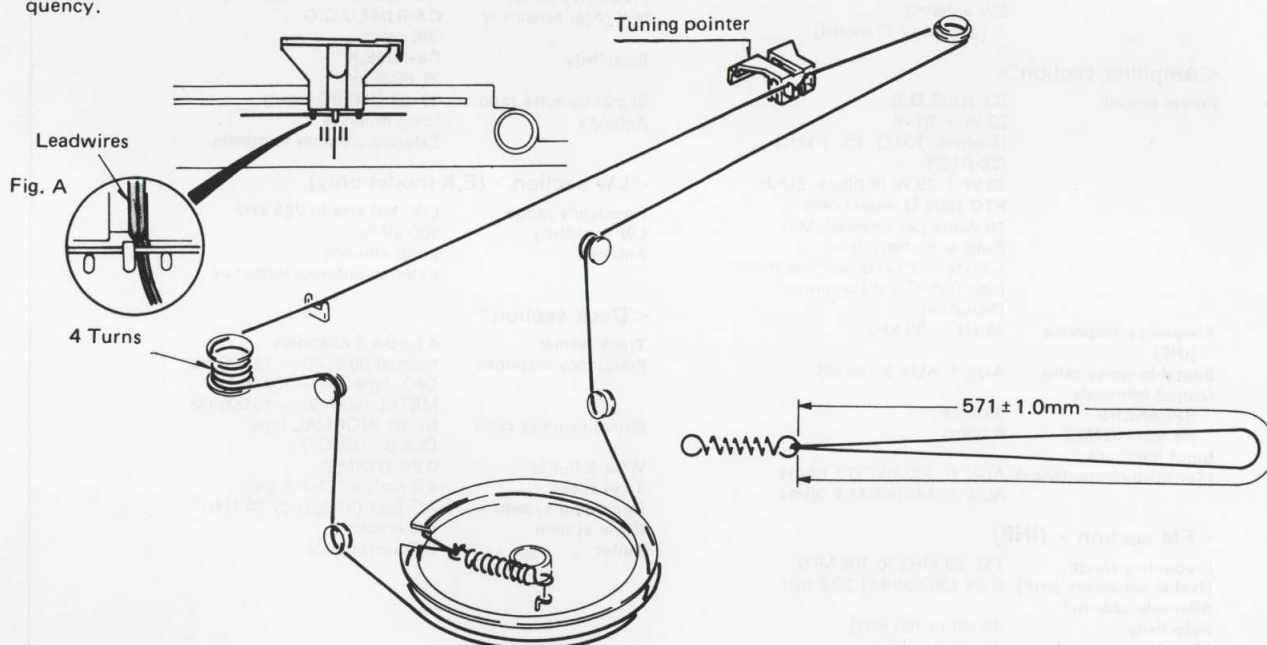
Connect to Chassis or Outside $\ominus$ of Pin Jack

Rating : More than $1M\Omega/500V$ DC



DIAL CORD STRINGING

Adjust the tuning pointer for the marking on the guide plate, putting the pointer leadwires in order as shown in Fig. A after turned the tuning dial to set the lowest frequency.



6. General instructions for mechanism repair

- 1) The heads, capstan and pinch roller shall be cleaned of good quality alcohol after repaired, because dirty heads shall cause distorted sounds while dirty capstan and pinch roller shall occur wow/flutter and take-up fault.
- 2) Lubricants been stained the surfaces of transmitting portion of the belts, idlers, capstan and pinch roller shall be removed, because slippery and faulty tape travel shall be caused.
- 3) When oiling, only one or two drops shall be applied so as not to run over and be dispersed. Note should be taken of the metal fitting for the capstan and rotating portions of the idlers and pinch roller, especially.
- 4) E-rings and poly slider washers shall be replaced with new ones, if once those have been removed. — No re-utilization due to unreliability.
- 5) Regular spare-parts shall always be used for repair, because using irregular parts and tampering with the products shall cause deterioration, malfunction and damage.

ELECTRICAL MAIN PARTS LIST

- +++ mark denotes a component of assembled part which part code is represented by a previously stated component.
- ★ -mark means less required items and availabilities may be limited.

CAPACITORS
No mark, U, U
P, PF

COILS
MMH: mH
UH : μ H

COILS	FUSE
MMH: mH	MMA: mA
UH : μ H	

FUSE

[illegible]

Note; Combination Circuit Board

The parts on the electrical parts list which are indicated by an asterisk (*) are supplied as one single combined circuit board. Therefore, they will not be supplied separately. If this becomes necessary, please order the entire circuit board.

Combination circuit board A 81-543-620

PCB-A 81-543-621

PCB-C 81-543-628

PCB-E 81-543-627

PCB-E 81-543-626

PCB-F	81-543-626
PCB-H	81-543-625

PCB-H 81-543-625
PCB-A 81-543-626

Combination circuit board B 81-744-651

PCB-B 81-744-652

PCB-L 81-744-654

Combination circuit board C 81-744-610

PCB-D 81-744-611

PCB-G 81-744-613

PCB-I 81-744-613

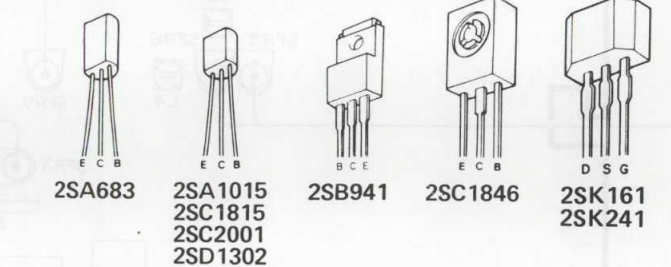
C-MOS IC handling precaution

The C-MOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260°C) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.
4. The ICs on the electrical parts which are indicated by an C-MOS IC symbol mark ().

 **Safety component symbol**

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.



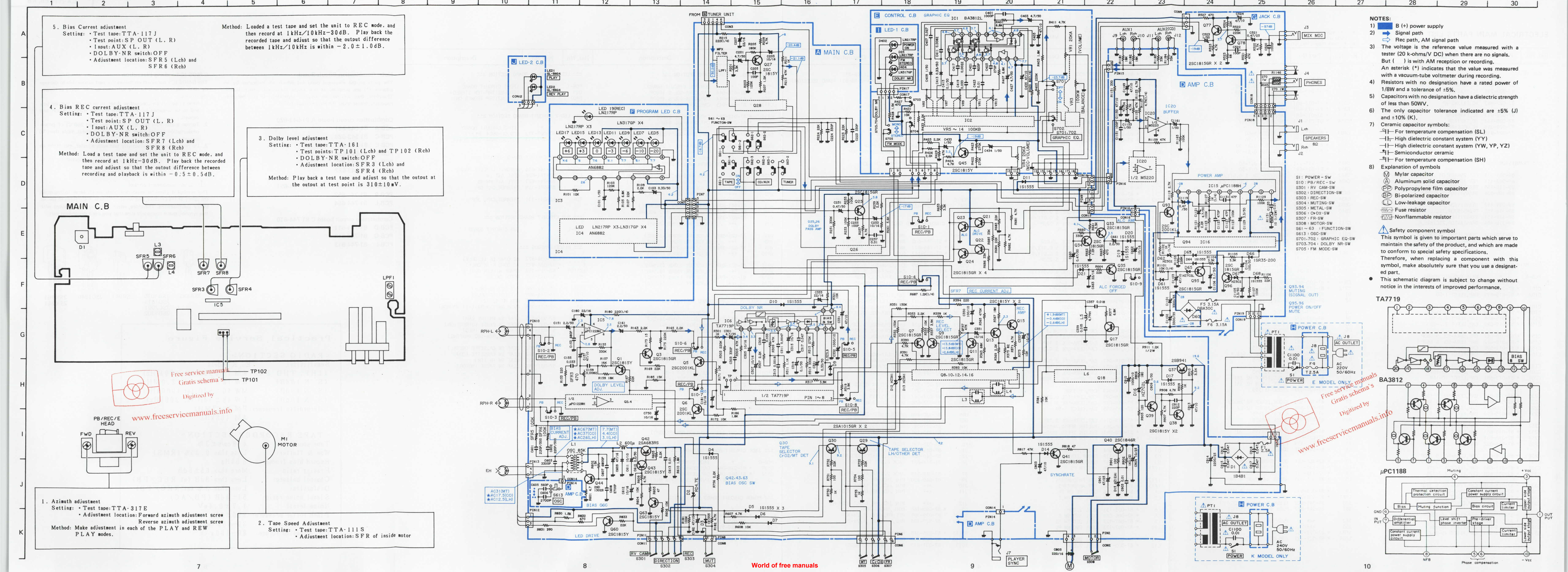
Practical Service Figure

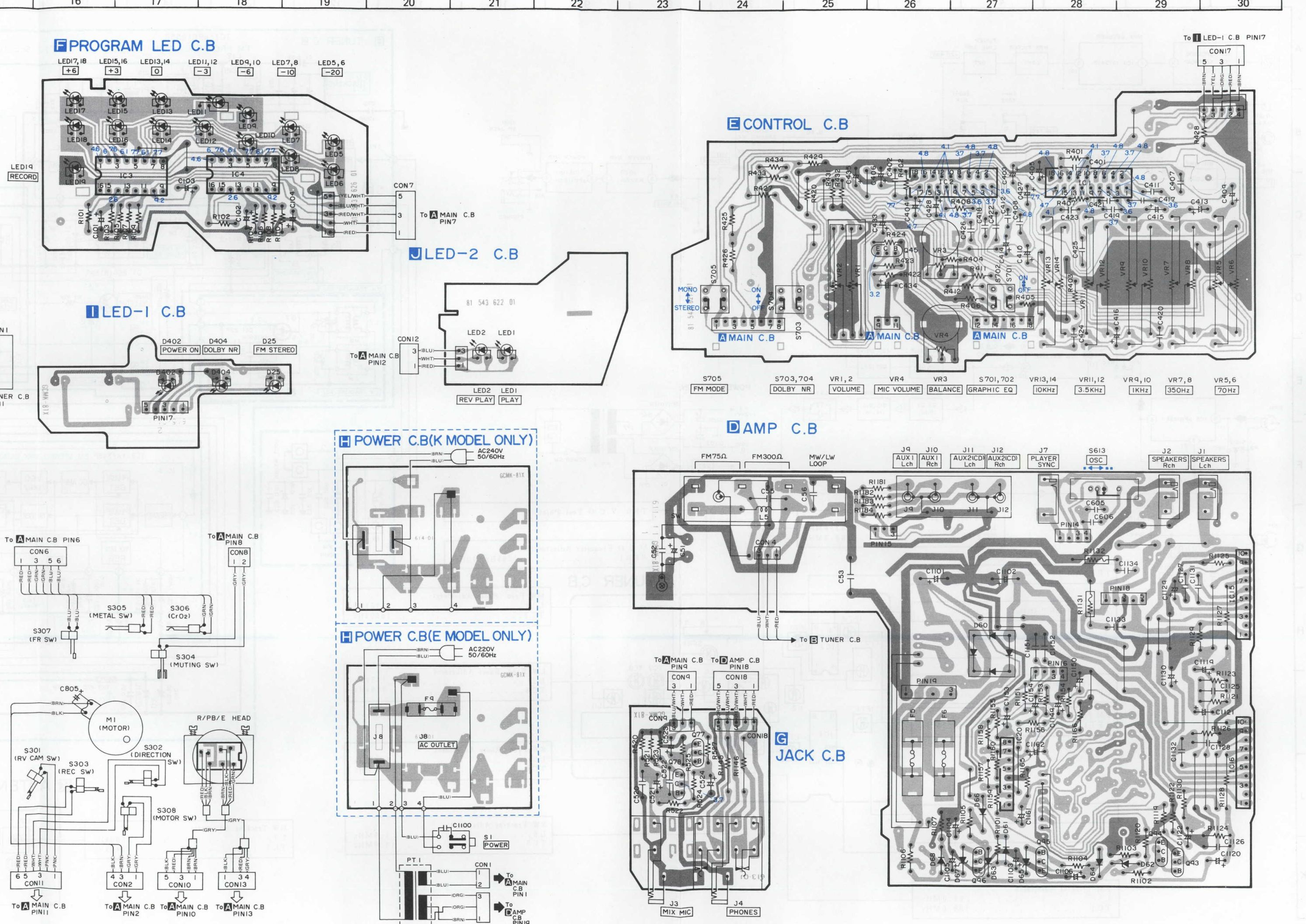
<RADIO SECTION>

Sensitivity:	E, K models
(1 HF, THD 3%)	FM 15 $\pm$ 5 dB (at 100 MHz)
(S/N 10 dB)	SW 18 $\pm$ 4 dB (at 12.0 MHz)
(S/N 10 dB)	MW 40 $\pm$ 5 dB (at 1000 kHz)
(S/N 10 dB)	LW 48 $\pm$ 5 dB (at 200 kHz)
Intermediate frequency:	FM 10.7 MHz
	AM 468 kHz

<TAPE RECORDER SECTION>

Tape speed:	4.8 cm/s ± 3%
Wow & flutter:	Less than 0.35% (RMS)
Record bias frequency:	85 kHz
Erasing ratio:	More than 65 ± 5 dB
Channel balance:	Less than 3 dB (at REC/PB)
Distortion:	Less than 3% (at REC/PB)
Signal noise ratio:	51 ± 4 dB (PB/AC)
Noise level:	1.7 ± 0.4 mV
Pinch roller pressure:	290 ± 30 g
Take up torque:	30~65 g-cm
FF & rewind torque:	80~180 g-cm





C-MOS IC handling precaution

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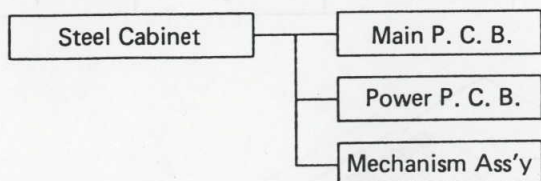
1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260℃) of power consumption for soldering. But do not overheat more than 10 second.

3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.
4. The ICs on the electrical parts which are indicated by an CMOS IC symbol mark ().



NOTES (1)  Earth pattern  Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
But () is with AM reception.

DISASSEMBLY INSTRUCTIONS



1. Removing Main P.C.B.

- 1) Remove the left and right holders (PCB-R and PCB-L) and remove the screw of the holder PCB-M. The holder PCB-R can be detached with together.
- 2) Remove the 3 screws on the ratio chassis (1-3). (See Figure-1)

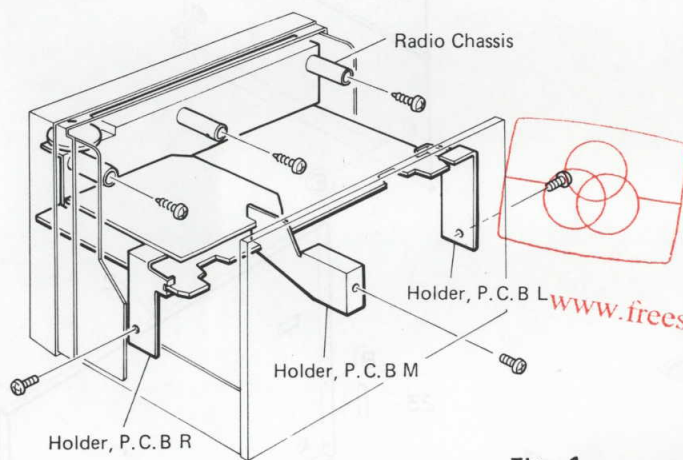


Fig.-1

- 3) Move the circuit board backward slightly and turn it over in the direction of the arrow. (See Figure-2)

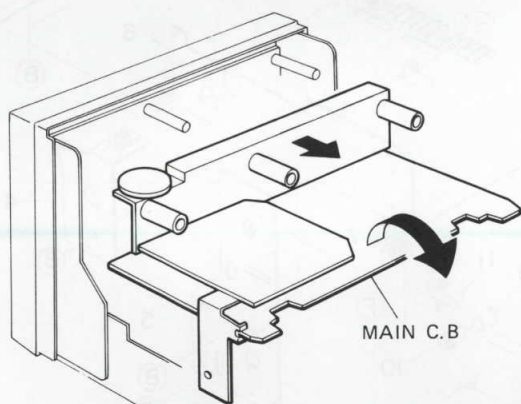


Fig.-2

2. Removing Power P.C.B.

- 1) Remove the screw on the holder PCB-M to detach the holder. (See Figure-1)
- 2) Remove the screw of the pin jack terminal and remove the 2 nylon rivets of the antenna terminal.
- 3) Remove the 5 screws and turn the heat-sink and circuit board with together in the direction of the arrow, then pull it out upward. (See Figure-3)

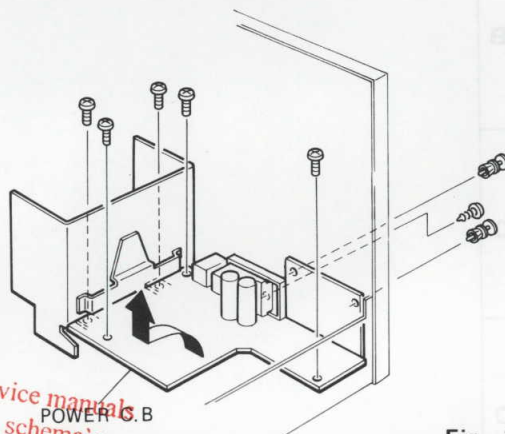


Fig.-3

3. Removing Mechanism Ass'y

- 1) Remove the 3 screws from the bottom of the front panel, and remove the 4 screws of the holders R and L. (See Figure-4)

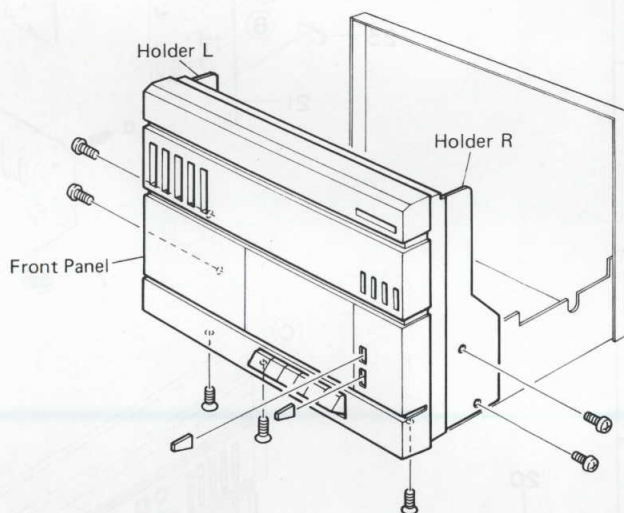


Fig.-4

- 2) Remove the 7 mechanism mounting screws. (See Figure-5)

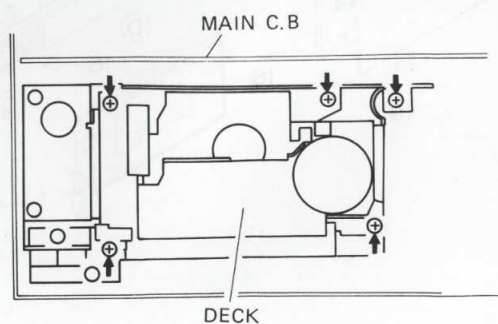
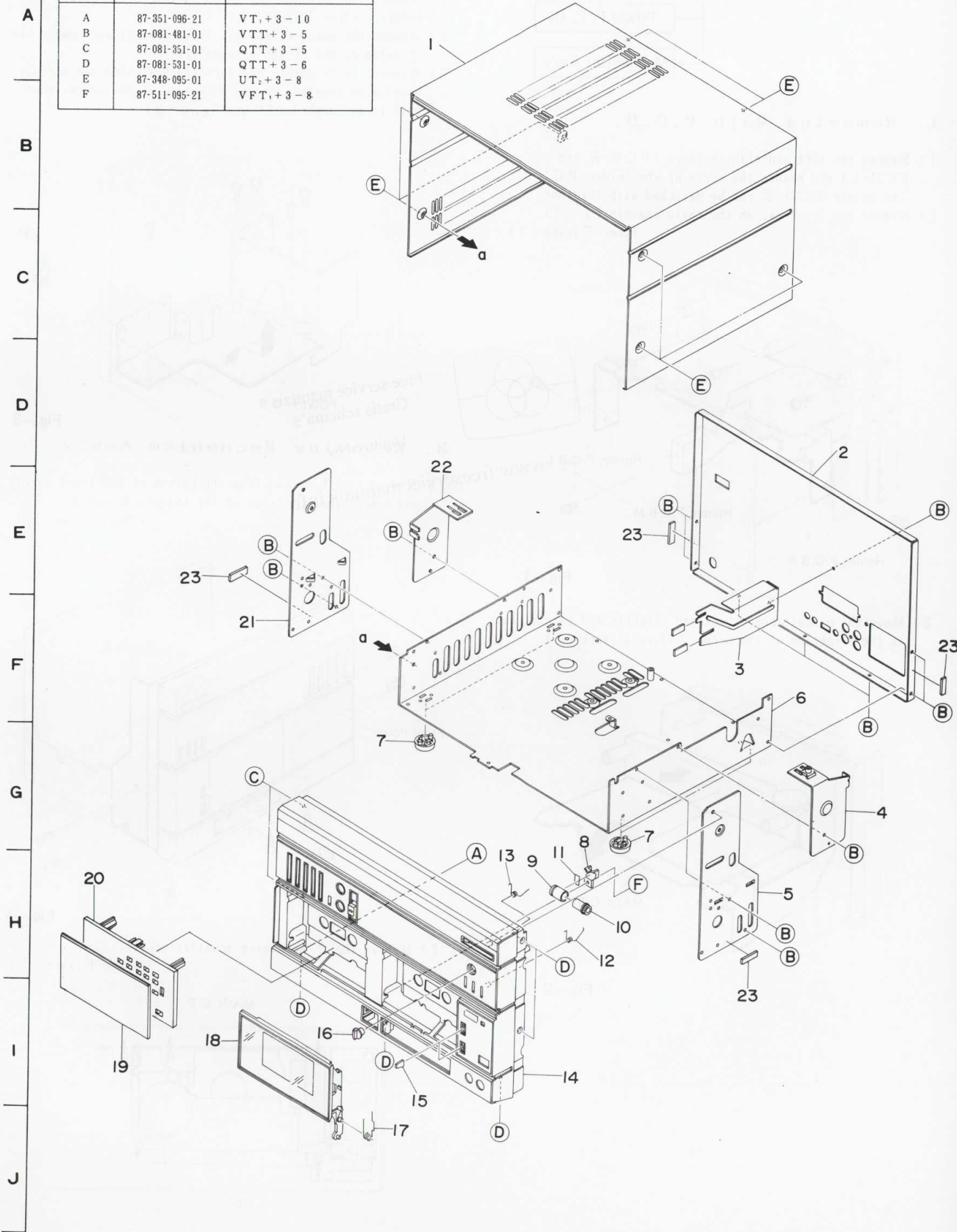


Fig.-5

EXPLODED VIEW - I

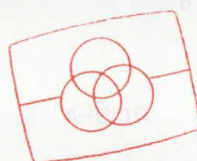
Ref. No.	Part No.	Description
A	87-351-096-21	VT ₁ +3-10
B	87-081-481-01	VTT+3-5
C	87-081-351-01	QTT+3-5
D	87-081-531-01	QTT+3-6
E	87-348-095-01	UT ₂ +3-8
F	87-511-095-21	VFT ₁ +3-8



MECHANICAL PARTS LIST

- * mark in this part list shows exclusive part.
- * mark means less required items availabilities may be limited.
- No availability part is marked with — in Part No. list.

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1-1	★81-744-015	STEEL CABINET	CX-W10	1
	1-2	—	REAR PANEL RH (H only)		1
		—	REAR PANEL RE (E only)		1
		—	REAR PANEL RK (K only)		1
		—	REAR PANEL RG (G only)		1
	1-3	—	HOLDER PCB (M) Ass'y		1
	1-4	—	HOLDER PCB (R) Ass'y EX		1
	1-5	—	HOLDER R		1
	1-6	—	AMP CHASSIS Ass'y		1
	1-7	★87-055-057	FOOT B		4
	1-8	★82-683-212	HOLDER OIL-DAMP (2)		1
	1-9	82-175-207	SHAFT BEARING, OIL-DAMP		1
	1-10	82-534-264	GEAR, OIL-DAMP		1
	1-11	—	HIMERON, OIL-DAMP		1
	1-12	★81-744-212	EARTH TOP	CX-W10	1
	1-13	★81-744-213	EARTH TOP	CX-W10	1
	1-14	★81-745-001	FRONT CABINET Ass'y (H, G only)	*	1
		★81-745-004	FRONT CABINET R Ass'y (E, K only)	*	1
	1-15	82-138-057	TOGGLE KNOB S	FX-W20	2
	1-16	81-518-078	KNOB, SELECTOR		1
	1-17	★81-744-220	T-SPRING, CASSETTE BOX	CX-W10	1
	1-18	81-745-008	CASSETTE BOX Ass'y RS	*	1
	1-19	★81-745-018	METER WINDOW M	*	1
	1-20	★81-542-204	LED GUIDE	CA-R80	1
	1-21	—	HOLDER L		1
	1-22	—	HOLDER PCB (L) Ass'y		1
	1-23	—	G CUSHION 6-4.5-2		4



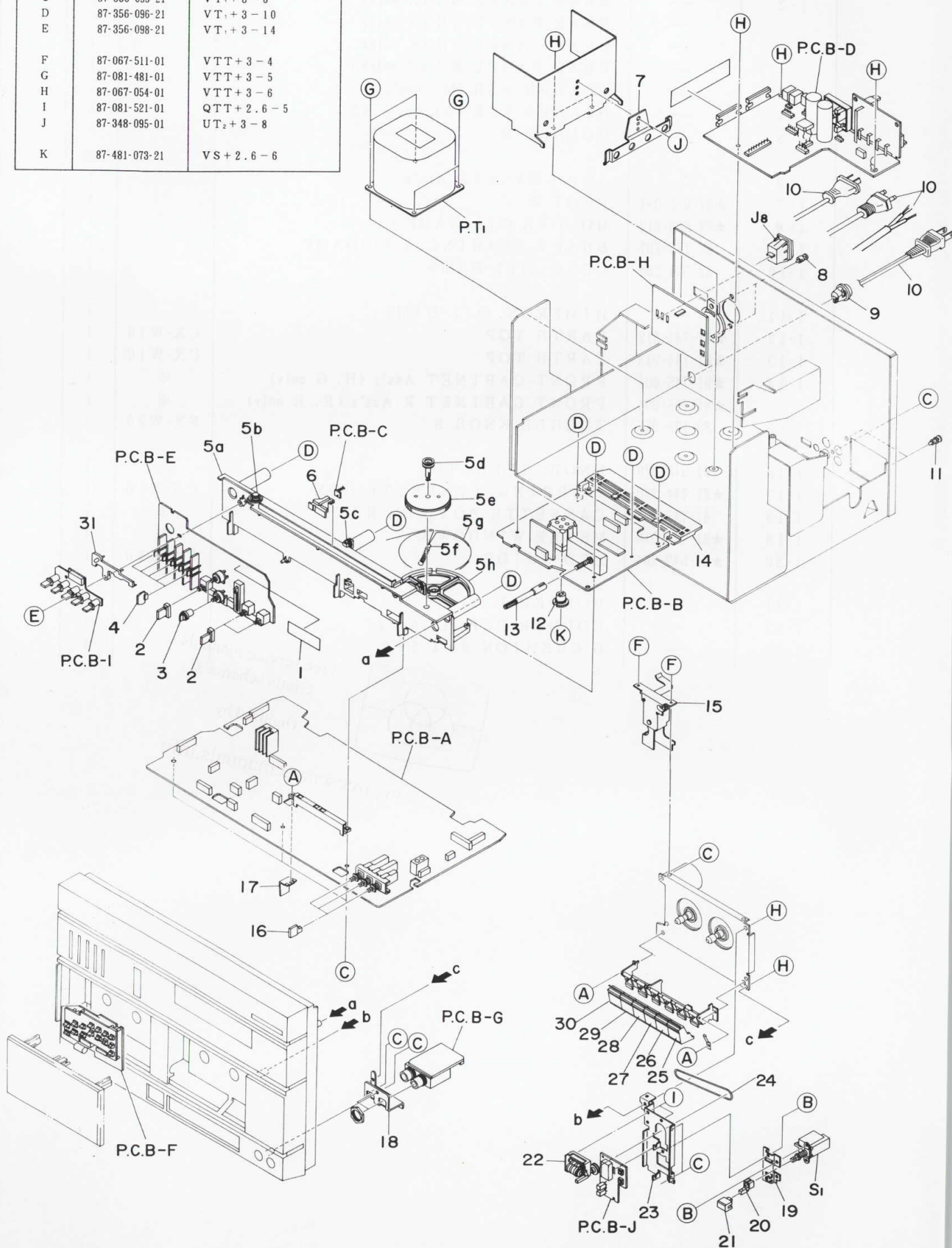
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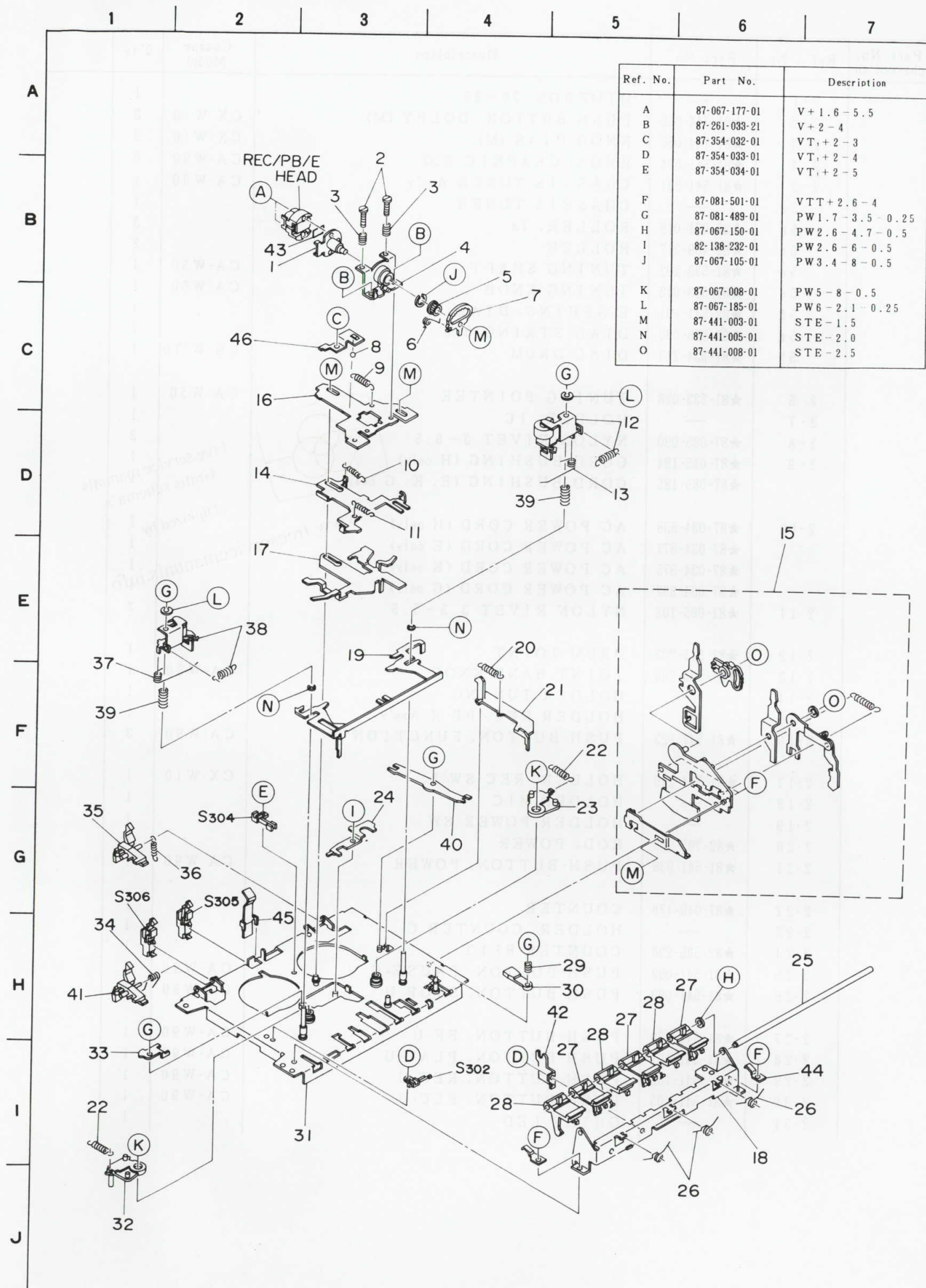
EXPLODED VIEW-2

Ref. No.	Part No.	Description
A	87-251-034-21	U + 2 - 5
B	87-261-093-21	V + 3 - 5
C	87-356-095-21	VT ₁ + 3 - 8
D	87-356-096-21	VT ₁ + 3 - 10
E	87-356-098-21	VT ₁ + 3 - 14
F	87-067-511-01	VTT + 3 - 4
G	87-081-481-01	VTT + 3 - 5
H	87-067-054-01	VTT + 3 - 6
I	87-081-521-01	QTT + 2.6 - 5
J	87-348-095-01	UT ₂ + 3 - 8
K	87-481-073-21	VS + 2.6 - 6



Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	2-1	—	HIMERON, 20-80		1
	2-2	★81-744-055	PUSH-BUTTON, DOLBY (M)	CX-W10	3
	2-3	★81-744-056	KNOB BIAS (M)	CX-W10	2
	2-4	★81-541-024	KNOB, GRAPHIC E.Q.	CA-W90	5
	2-5	★81-541-201	CHASSIS TUNER Ass'y	CA-W90	1
	5a	—	CHASSIS TUNER		1
	5b	★87-071-019	ROLLER, 7ø		3
	5c	★82-439-317	ROLLER		2
	5d	★81-533-202	TUNING SHAFT	CA-W50	1
	5e	★81-533-013	TUNING KNOB	CA-W50	1
	5f	★82-541-291	E-SPRING, DIAL		1
	5g	★87-096-090	DIAL STRING 0.3		1
	5h	★81-534-213	DIAL DRUM	CS-W770	1
	2-6	★81-533-028	TUNING POINTER	CA-W50	1
	2-7	—	HOLDER, IC		1
	2-8	★87-085-090	NYLON RIVET 3-6.5		2
	2-9	★87-085-184	CORD BUSHING (H only)		1
		★87-085-185	CORD BUSHING (E, K, G only)		1
	2-10	★87-034-958	AC POWER CORD (H only)		1
		★87-034-877	AC POWER CORD (E only)		1
		★87-034-975	AC POWER CORD (K only)		1
		★87-034-892	AC POWER CORD (G only)		1
	2-11	★87-085-102	NYLON RIVET 3.5-5.5		2
	2-12	★81-511-203	DRUM JOINT		1
	2-13	★81-533-286	JOINT BAND KNOB	CA-W50	1
	2-14	—	HOLDER TUNING		1
	2-15	—	HOLDER REC/PB R Ass'y		1
	2-16	★81-541-023	PUSH-BUTTON, FUNCTION	CA-W90	3
	2-17	★81-744-219	HOLDER, REC SW 2	CX-W10	1
	2-18	—	HOLDER MIC		1
	2-19	—	HOLDER POWER SW		1
	2-20	★82-795-206	ROD, POWER		1
	2-21	★81-541-038	PUSH-BUTTON, POWER	CA-W90	1
	2-22	★87-040-178	COUNTER		1
	2-23	—	HOLDER, COUNTER C		1
	2-24	★82-535-236	COUNTER BELT		1
	2-25	★81-541-098	PUSH-BUTTON, PAUSE-U	CA-W90	1
	2-26	★81-541-099	PUSH-BUTTON, STOP-U	CA-W90	1
	2-27	★81-541-100	PUSH-BUTTON, FF-U	CA-W90	1
	2-28	★81-541-101	PUSH-BUTTON, PLAY-U	CA-W90	1
	2-29	★81-541-102	PUSH-BUTTON, REW-U	CA-W90	1
	2-30	★81-541-103	PUSH-BUTTON, REC-U	CA-W90	1
	2-31	—	GUIDE LED		1

EXPLODED VIEW-3

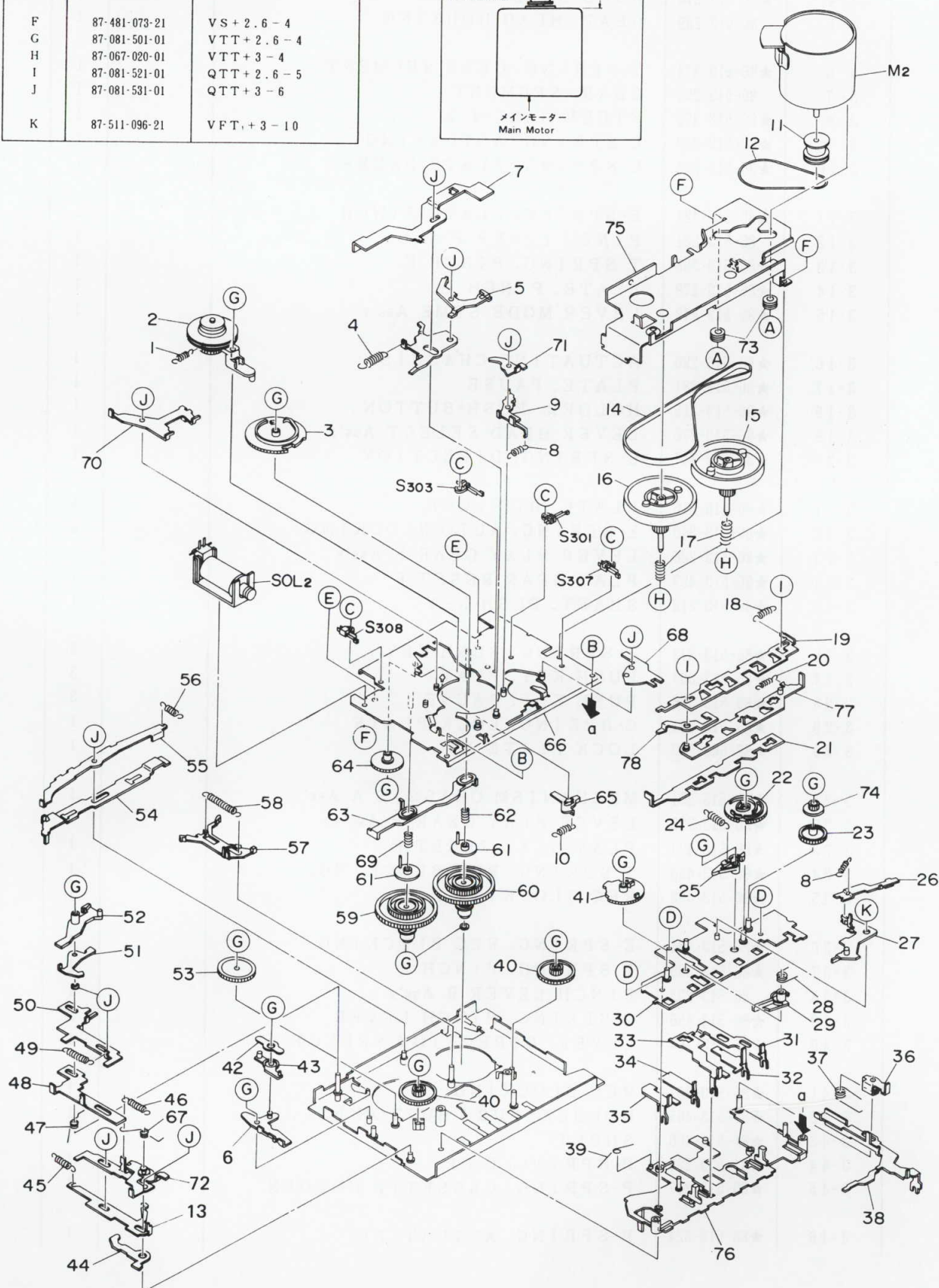
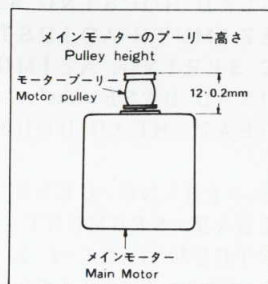


Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	3-1	★86-513-267	HEAD HOUSING Ass'y		1
	3-2	★81-506-230	AZIMUTH ADJUSTMENT SCREW		2
	3-3	★86-513-437	C-SPRING, AZIMUTH		2
	3-4	★86-513-270	HEAD BASE Ass'y		1
	3-5	86-513-299	GEAR, HEAD HOUSING		1
	3-6	★86-513-374	T-SPRING, GEAR SEGMENT		1
	3-7	86-513-298	GEAR, SEGMENT		1
	3-8	★86-513-376	STEEL BALL 1.2		1
	3-9	★86-513-332	E-SPRING, ACTUATING		1
	3-10	★86-513-334	E-SPRING, PLATE PAUSE		1
	3-11	★86-513-421	E-SPRING, PLATE PINCH		1
	3-12	86-513-231	PINCH LEVER F Ass'y		1
	3-13	★86-513-368	T-SPRING, PINCH F		1
	3-14	★86-513-279	PLATE, PINCH		1
	3-15	★86-513-448	LEVER MODE SEME Ass'y		1
	3-16	★86-513-280	ACTUATING CHASSIS		1
	3-17	★86-513-281	PLATE, PAUSE		1
	3-18	★86-513-315	HOLDER, PUSH-BUTTON		1
	3-19	★86-513-276	LEVER HEAD SELECT Ass'y		1
	3-20	★86-513-417	E-SPRING, DIRECTION		1
	3-21	★86-513-316	PLATE, RID LOCK		1
	3-22	★86-513-340	E-SPRING, AUTO BLOCKING		2
	3-23	★86-513-226	LEVER PLAY GEAR F Ass'y		1
	3-24	★86-513-423	PLAY GEAR RESET F		1
	3-25	★86-513-319	SHAFT, PUSH-KEY		1
	3-26	★86-513-372	T-SPRING, PUSH-KEY		3
	3-27	★86-513-307	PUSH-KEY, PLAY		3
	3-28	★86-513-306	PUSH-KEY, PAUSE		3
	3-29	★86-513-331	C-SPRING, LOCK PLATE		1
	3-30	★82-668-252	LOCK PLATE AB		1
	3-31	★86-513-201	MECHANISM CHASSIS A Ass'y		1
	3-32	★86-513-229	LEVER PLAY GEAR R Ass'y		1
	3-33	★86-513-424	PLAY GEAR RESET F		1
	3-34	★86-513-450	T-SPRING, REC BLOCKING		1
	3-35	★86-513-433	REC BLOCKING R		1
	3-36	★86-513-434	E-SPRING, REC BLOCKING		1
	3-37	★86-513-369	T-SPRING, PINCH R		1
	3-38	86-513-233	PINCH LEVER R Ass'y		1
	3-39	★86-513-456	C-SPRING, PINCH LEVER		2
	3-40	★86-513-364	LEVER, DIRECTION SELECT		1
	3-41	★86-513-367	REC BLOCKING		1
	3-42	★81-513-465	HOLDER, PUSH-BUTTON B		1
	3-43	★81-513-466	SHEET		1
	3-44	★81-539-236	P-SPRING, C-UP		1
	3-45	★86-513-323	P-SPRING, CASSETTE HOLDER		1
	3-46	★86-513-324	P-SPRING, ACTUATING		1

EXPLODED VIEW-4

1	2	3	4	5	6	7
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Ref. No.	Part No.	Description
A	87-251-034-21	V + 2 - 5
B	87-351-034-21	VT + 2 - 5
C	87-356-096-21	VT + 3 - 10
D	87-481-033-21	VS + 2 - 4
E	87-481-035-21	VS + 2 - 6
F	87-481-073-21	VS + 2.6 - 4
G	87-081-501-01	VTT + 2.6 - 4
H	87-067-020-01	VTT + 3 - 4
I	87-081-521-01	QTT + 2.6 - 5
J	87-081-531-01	QTT + 3 - 6
K	87-511-096-21	VFT + 3 - 10

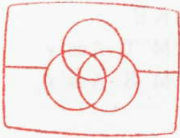


Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	4-1	★86-513-339	E-SPRING, FR LEVER		1
	4-2	86-513-246	FR PULLEY Ass'y		1
	4-3	86-513-291	GEAR, CAM PLAY		1
	4-4	★86-513-417	E-SPRING, DIRECTION		2
	4-5	★86-513-300	TRIGGER LEVER, PLAY		1
	4-6	★86-513-414	LEVER AUTO A Ass'y		1
	4-7	★86-513-317	LEVER, DIRECTION		1
	4-8	★86-513-418	E-SPRING, TRIGGER REVERSE		2
	4-9	★86-513-304	TRIGGER LEVER, REVERSE		1
	4-10	★86-513-340	E-SPRING, AUTO BLOCKING		2
	4-11	86-513-290	MOTOR PULLEY #7.5		1
	4-12	86-513-326	RUBBER BELT FR A		1
	4-13	★86-513-385	SLIDE PLATE, MODE B		1
	4-14	86-513-325	MAIN BELT A		1
	4-15	86-513-478	FLYWHEEL Ass'y R B		1
	4-16	86-513-482	FYLWHEEL Ass'y C		1
	4-17	★86-513-341	C-SPRING, FLYWHEEL		2
	4-18	★86-513-338	E-SPRING, PLATE LOCK		1
	4-19	★86-513-262	SLIDE PLATE LOCK		1
	4-20	★86-513-335	E-SPRING, PLATE MS B		1
	4-21	★86-513-265	SLIDE PLATE MS		1
	4-22	86-513-293	GEAR, REVERSE CAM		1
	4-23	86-513-295	GEAR, REVERSE B		1
	4-24	★86-513-333	E-SPRING, LEVER PLAY		1
	4-25	★86-513-309	LEVER, ACTUATING RESET		1
	4-26	★86-513-258	REC LEVER A		1
	4-27	★86-513-255	LEVER PLAY Ass'y		1
	4-28	★86-513-337	T-SPRING, LEVER PAUSE		1
	4-29	★86-513-310	LEVER, PAUSE		1
	4-30	★86-513-415	MECHANISM CHASSIS C Ass'y		1
	4-31	★86-513-288	PLATE BUTTON, REWD		1
	4-32	★86-513-287	PLATE BUTTON, PLAY		1
	4-33	★86-513-286	PLATE BUTTON, FF		1
	4-34	★86-513-285	PLATE BUTTON, STOP		1
	4-35	★86-513-282	PLATE BUTTON PAUSE Ass'y		1
	4-36	★86-513-305	LEVER REC B		1
	4-37	★86-513-373	T-SPRING, REC		1
	4-38	★86-513-289	PLATE BUTTON, REC		1
	4-39	★86-513-428	T-SPRING, FF BUTTON		1
	4-40	86-513-294	GEAR, PLAY		2
	4-41	86-513-292	GEAR, PAUSE CAM		1
	4-42	★86-513-489	P-SPRING, AUTO		1
	4-43	★86-513-314	LEVER, AUTO KICK		1
	4-44	★86-513-422	LEVER, MANUAL		1
	4-45	★86-513-402	E-SPRING, MODE B		1

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	4-46	★86-513-401	E-SPRING, MODE A		1
	4-47	★86-513-339	T-SPRING, REC BLOCKING C		1
	4-48	★86-513-351	SLIDE PLATE, REC BLOCKING C		1
	4-49	★86-513-400	E-SPRING, SLIDE PLATE REC		1
	4-50	★86-513-350	SLIDE PLATE, REC		1
	4-51	★86-513-387	LEVER, REC BLOCKING		1
	4-52	★86-513-365	LEVER, REC BLOCKING		1
	4-53	86-513-296	GEAR, AUTO STOP		1
	4-54	★86-513-356	SLIDE LEVER, REC BLOCKING		1
	4-55	★86-513-355	LEVER REC A		1
	4-56	★86-513-398	E-SPRING, REC A		1
	4-57	★86-513-308	SLIDE PLATE, BRAKE		1
	4-58	★86-513-371	E-SPRING, BRAKE		1
	4-59	86-513-239	REEL PLATFORM T Ass'y		1
	4-60	86-513-240	REEL PLATFORM S Ass'y		1
	4-61	86-513-313	SLIP DISK		2
	4-62	★86-513-453	C-SPRING, AUTO B		1
	4-63	★86-513-312	SLIDE PLATE AUTO		1
	4-64	86-513-297	GEAR, FF		1
	4-65	★86-513-311	LEVER AUTO EJECT		1
	4-66	★86-513-454	MECHANISM CHASSIS B Ass'y		1
	4-67	★86-513-403	T-SPRING, LEVER SLIDE PLATE		1
	4-68	★86-513-273	LEVER REVERSE Ass'y		1
	4-69	★86-513-381	C-SPRING, AUTO		1
	4-70	★86-513-301	LEVER, MUT SW		1
	4-71	★86-513-303	LEVER REVERSE BLOCKING		1
	4-72	★86-513-406	SLIDE PLATE MODE A Ass'y		1
	4-73	★86-513-441	COLLAR		2
	4-74	86-513-459	GEAR REVERSE C		1
	4-75	★86-513-475	MOTOR HOLDER SEME Ass'y		1
	4-76	★86-513-219	GUIDE, BUTTON		1
	4-77	★86-513-260	SLIDE PLATE MOTOR SW Ass'y		1
	4-78	★86-513-261	EJECT LEVER		1

ACCESSORIES/PACKAGE LIST

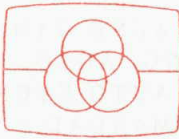
Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty
	1	★81-745-904	INSTRUCTION BOOKLET	※	1
	2	★82-795-670	LOOP ANT B (U) Ass'y		1
	3	★87-032-845	SIEMENS PLUG (HB only)		1
	4	★87-043-065	FM FEEDER ANTENNA (UB only)		1
	5	★87-043-084	FM 5M WIRE ANTENNA Ass'y (HB, EB, KB, GB only)		1



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