

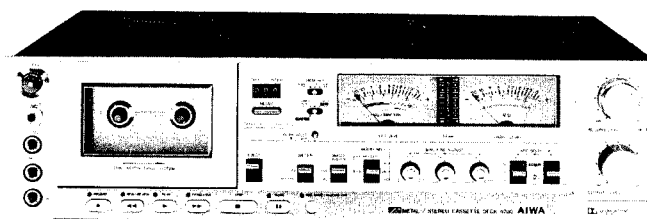
STEREO CASSETTE DECK WITH DOLBY NR SYSTEM

MODEL NO. AD-6700_{H,C,U,E,K,G}

AIWA®

【SERVICE MANUAL】

Code No. 04-670-000-52



Shown above is AD-6700H

DATE OF ISSUE 7/1979

SPECIFICATIONS

Semiconductors: 19 IC's, 81 transistors, 60 diodes, 12 FET's & 6 LED's

Power source: AC 110V/120V/220V/240V (H model)
AC 110~120V/220V/240V (E model)
AC 120V/240V (K,G model) (switchable) 50/60 Hz
AC 120V, 60 Hz (U, C model)

Power consumption: 45W

Dimensions: 450(W) x 120(H) x 327(D) mm (H,C,E,K,G model)
18.9/16"(W) x 4.3/4"(H) x 12.7/8"(D)
(472 x 120 x 327 mm) (U model)

Weight: 9.5 kg (H,C,E,K,G model)
22.5 lbs (10.2 kg) (U model)

Tracks system: 4-track 2-channel stereo

Tape speed: 4.8 cm/sec. $\pm 0.5\%$

Wow & flutter: Less than 0.04% (WRMS) at Pb

Automatic stop system: Full auto-stop

Automatic shut-off action time: 2 $\pm$ 0.5 s.

Pinch roller pressure: 350 $\pm$ 30 g (3.43 $\pm$ 0.29 N)

Take-up torque: 50 $\pm$ 10 g-cm (490 $\pm$ 98 mN·m)

FF & rewind torque: 155 $\pm$ 25 g-cm (1519 $\pm$ 245 mN·m)

FF & rewind time: 65 $\pm$ 8 s. (w/C-60 cassette)

Unattended recording acting time: 3 $\pm$ 1 s.

Playback output: 0.58 $\pm$ 0.06 V (LINE) (TTA-161)

Playback noise: Less than 3.5 mV (LH, DOLBY OFF)
Less than 1.0 mV (Fe-Cr, CrO₂, METAL, DOLBY ON)
0 VU $\pm$ 1.0 dB (LINE)

Rec./Pb output: (400 Hz 0 VU)

Rec./Pb distortion: (400 Hz 0 VU)
Less than 1.5% (LH, Fe-Cr)
Less than 2.5% (CrO₂)
Less than 1.3% (METAL)
More than 40/45 dB (LH, DOLBY OFF/ON)
More than 43/46 dB (Fe-Cr, CrO₂, METAL, DOLBY OFF/ON)

Rec./Pb S/N: (400 Hz 0 VU) (Un-Weighted)
More than 40/45 dB (LH, DOLBY OFF/ON)
More than 43/46 dB (Fe-Cr, CrO₂, METAL, DOLBY OFF/ON)

Channel separation: (1 kHz 0 VU)
More than 30 dB

Cross talk: (1 kHz 0 VU)
More than 60 dB

Erasing ratio: (400 Hz 0 VU + 10 dB)
More than 60 dB

VU meter display error: (0 VU)
0 VU $\pm$ 0.5 dB

Bias frequency: 105 kHz

Frequency response: LH tape, 20~16,000 Hz
25~15,000 Hz (± 2 / -3 dB)
Fe-Cr tape, 20~19,000 Hz
25~17,000 Hz (± 2 / -3 dB)

CrO₂ tape, 20~18,000 Hz
25~16,000 Hz (± 2 / -3 dB)

METAL tape, 20~19,000 Hz
25~17,000 Hz (± 2 / -3 dB)

Motor: 38 pulse FG servo motor (for capstan)
DC servo motor

Head: Sendust guard head (SGH) (for Rec./Pb)
Double gap ferrite head (for Erasure)

Input: MIC; Max. input sensitivity 0.25 mV
(200 Ω ~ 10 k Ω suitable)
LINE IN; Max. input sensitivity 75 mV
(More than 50 k Ω)
DIN; Max. input sensitivity 0.25 mV (50 k Ω) (H,E,K,G model)

Output: LINE OUT; Standard output level 0.41V (0 VU)
Optimum load impedance More than 50 k Ω
DIN; Standard output level 0.41 V (0 VU)
Optimum load impedance More than 50 k Ω (H,E,K,G model)

PHONES; 8 Ω ~ 150 Ω

Remote control unit specifications

Number of channels 7

Clock frequency 40 kHz $\pm 1\%$

Power requirements 4.5V UM-3 (size 'AA') x 3
500 mA (when transmitting)
5 μ A (during shutdown) under normal conditions

Current consumption

Transmission directivity About $\pm 45^\circ$

Coverage range About 8 meters

Semiconductors used 2 ICs, 5 transistors, 1 diodes, 2 LEDs

Usable temperature range +0°C to +35°C

Dimensions 50 (W) x 25 (H) x 150 (D) mm
2"(W) x 1"(H) x 5.15/16"(D)

Weight 163g 0.36 lbs

- Specifications and external appearance are subject to change without notice due to product improvement.
- Dolby Noise Reduction System is licensed from Dolby Laboratories Incorporated.
- The name "Dolby" and the "Double D" symbol are trademarks of Dolby Laboratories Incorporated.

DISASSEMBLY INSTRUCTIONS

1. To Remove Cassette Lid, Blinder and Cassette Plate

- 1) Remove the cassette lid.
- 2) Remove the blinder.
- 3) Remove 2 screws, securing the cassette plate in place.
(Refer to Fig. 1)

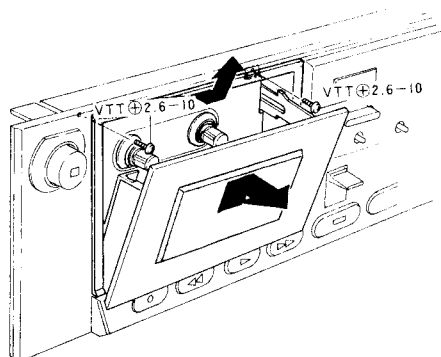


Fig. 1

2. To Remove Front Panel

- 1) Remove the connector.
- 2) Pull out the 13 knobs.
- 3) Remove 6 screws.
(Refer to Fig. 2)

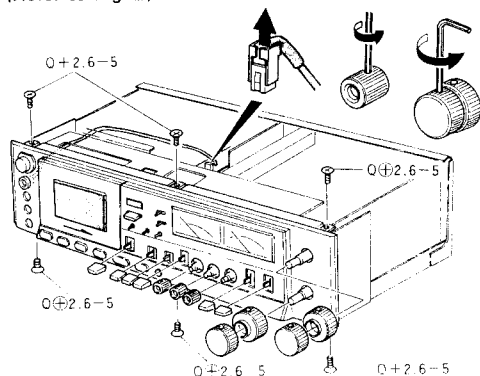


Fig. 2

3. To Remove Mechanism

- 1) Remove 2 screws, securing the player shync circuit board in place.
- 2) Remove 4 screws, securing the power transformer in place.
- 3) Remove 2 screws, securing the power switch holder in place.
- 4) Remove the counter belt and main belt.
- 5) Remove the rod stoppers and take out the selector rods.
(Refer to Fig. 3)

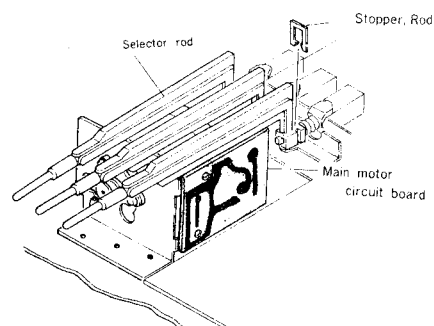


Fig. 3

- 6) Remove 10 screws.
(Refer to Fig. 4 and Fig. 5)

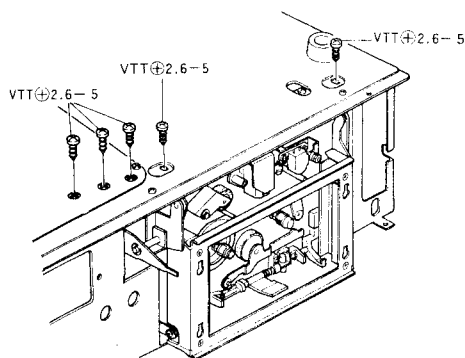


Fig. 4

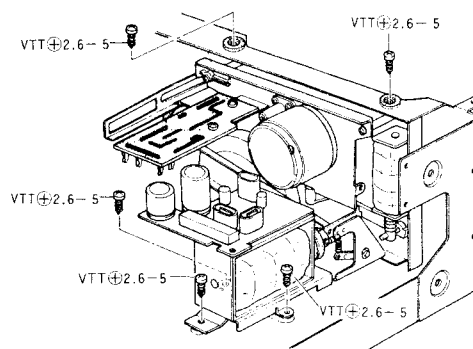
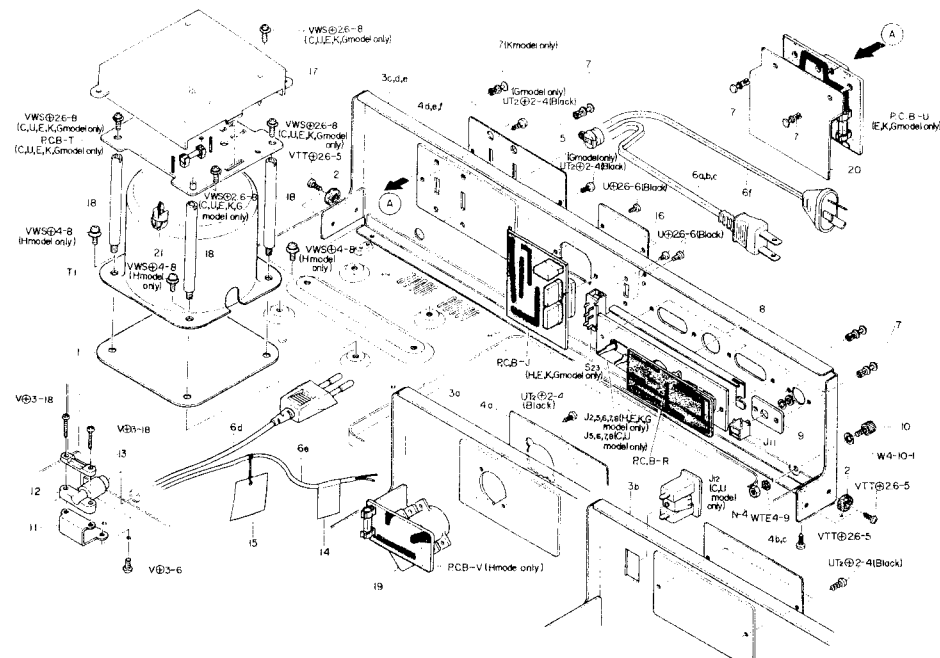


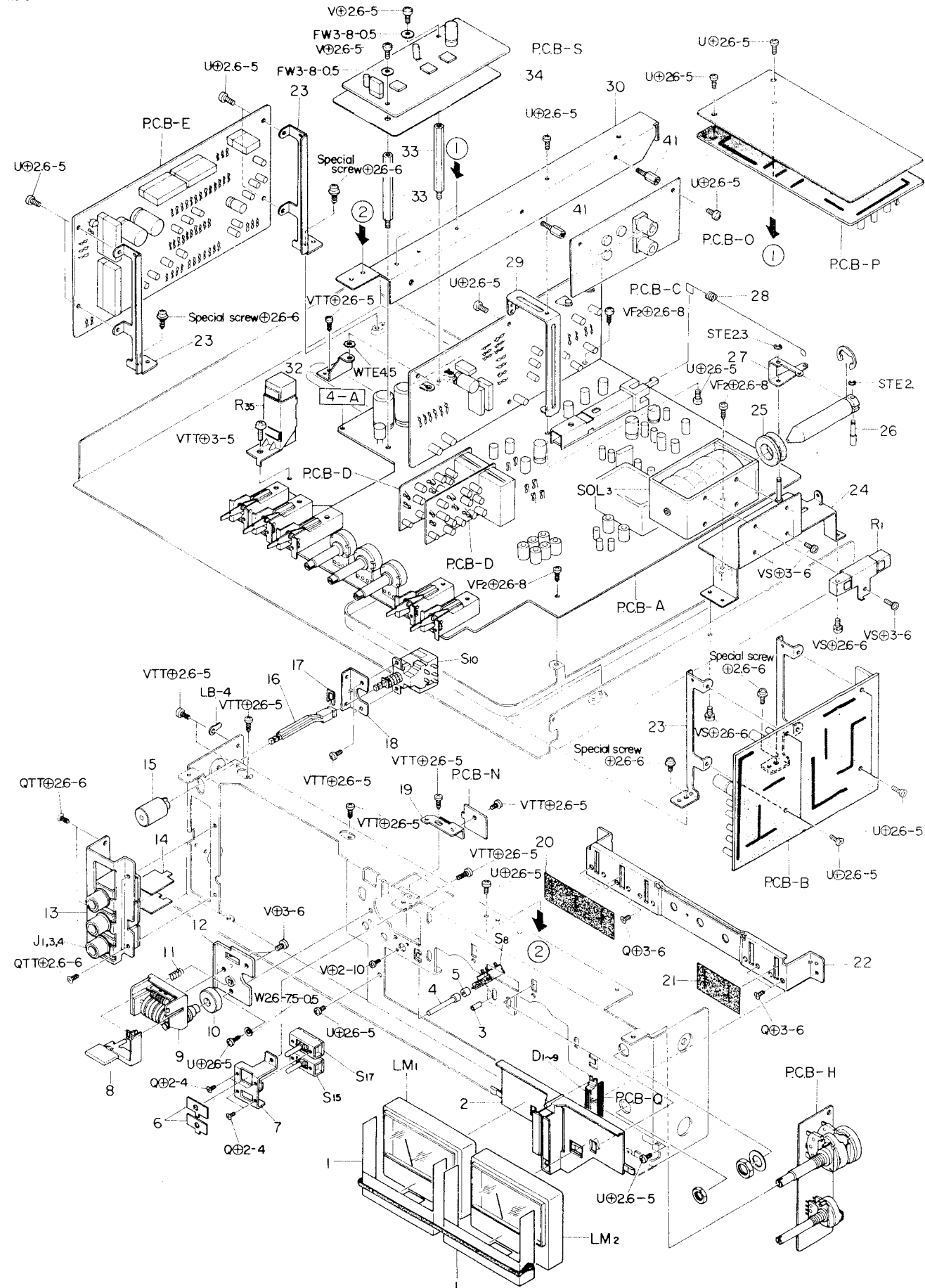
Fig. 5

EXPLODED VIEW-2



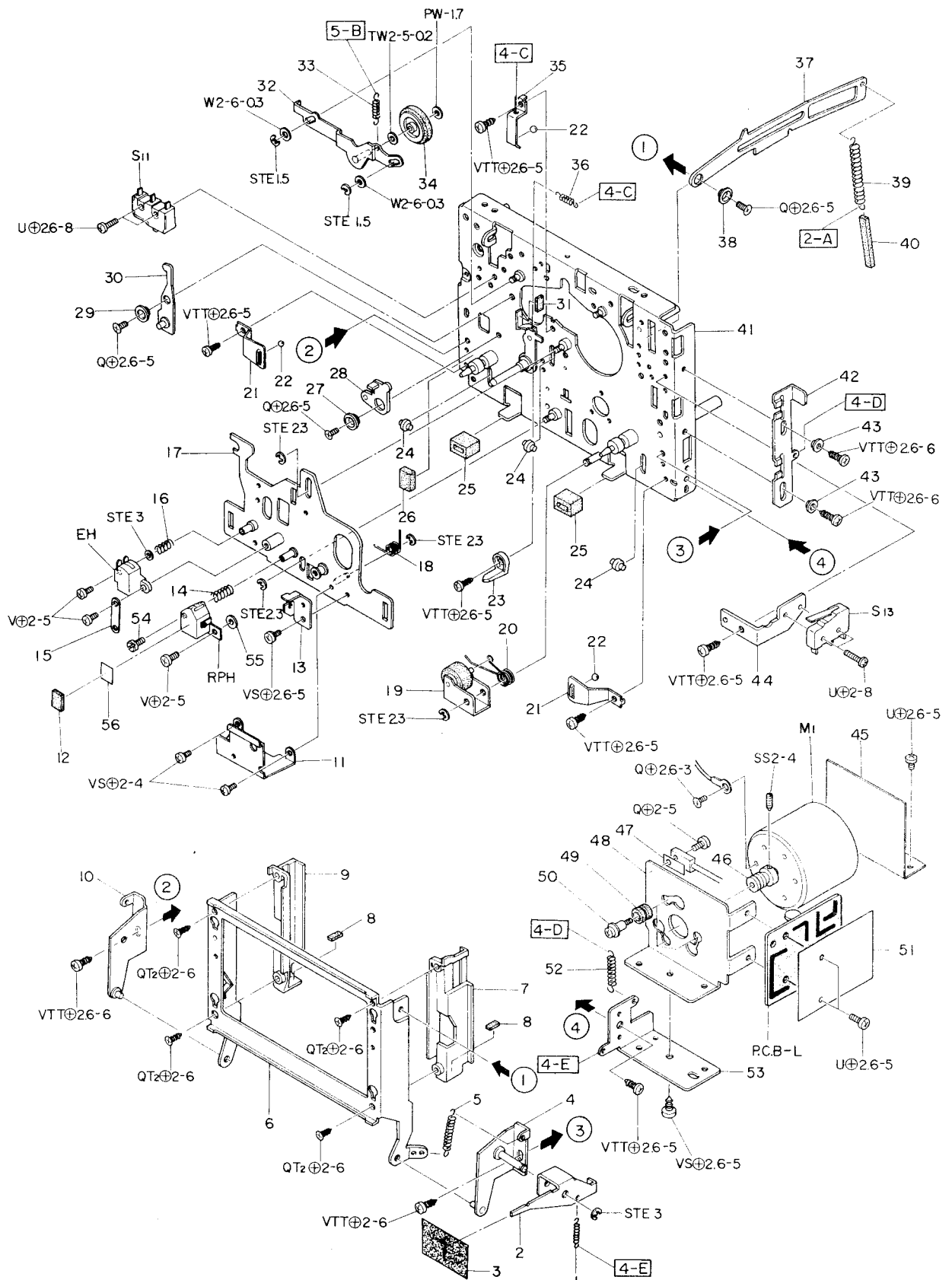
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-304-735-01		Shield plate, Power transformer	AD-6900	1
2-2	82-304-302-01		G cushion spacer	AD-6900	2
2-3a	82-307-031-01		Back panel (H model only)	*	1
2-3b	82-307-029-01		Back panel (C,U model only)	*	1
2-3c	82-307-032-01		Back panel (E model only)	*	1
2-3d	82-307-033-01		Back panel (K model only)	*	1
2-3e	82-307-034-01		Back panel (G model only)	*	1
2-4a	82-307-035-01		Name plate, Spec. (H model only)	*	1
2-4b	82-307-036-01		Name plate, Spec. (C model only)	*	1
2-4c	82-307-021-01		Name plate, Spec. (U model only)	*	1
2-4d	82-307-037-01		Name plate, Spec. (E model only)	*	1
2-4e	82-307-038-01		Name plate, Spec. (K model only)	*	1
2-4f	82-307-039-01		Name plate, Spec. (G model only)	*	1
2-5	87-085-101-01		Cord bushing (H,C,U,G model only)		1
2-6a	87-034-826-01		AC power cord (H model only)		1
2-6b	87-034-876-01		AC power cord (C model only)		1
2-6c	87-034-874-01		AC power cord (U model only)		1
2-6d	87-034-877-01		AC power cord (E model only)		1
2-6e	87-034-872-01		AC power cord (K model only)		1
2-6f	87-034-878-01		AC power cord (G model only)		1
2-7	87-085-102-01		Nylon rivet		1
					H,C,U:6 E:12 K,G:10
2-8	82-386-629-01		Shield plate, Jack	AD-1250	1
2-9	82-387-273-01		Holder, Jack	AD-6800	1
2-10	87-033-088-01		Earth terminal		1
2-11	82-397-244-01		Holder, AC power cord (E,K model only)	AD-6550	1
2-12	87-085-095-01		Holder B, AC power cord (E,K model only)		1
2-13	87-085-094-01		Holder A, AC power cord (E,K model only)		1
2-14	87-056-008-01		Label, AC power cord (K model only)		1
2-15	87-056-014-01		Tag, Main voltage (K model only)		1
2-16	82-307-028-01		Sheet, Blind	*	1
2-17	82-304-326-01		Shield case, Fuse (C,U,E,K,G model only)	AD-6900	1
2-18	82-304-325-01		Holder, Circuit board I (C,U,E,K,G model only)	AD-6900	4
2-19	82-488-234-01		Holder, Main voltage (H model only)	AX-7400	1
2-20	82-304-749-01		Insulation plate, V selector (E,K,G model only)	AD-6900	1
2-21	87-064-086-01		Holder, Circuit board		1

EXPLODED VIEW-3



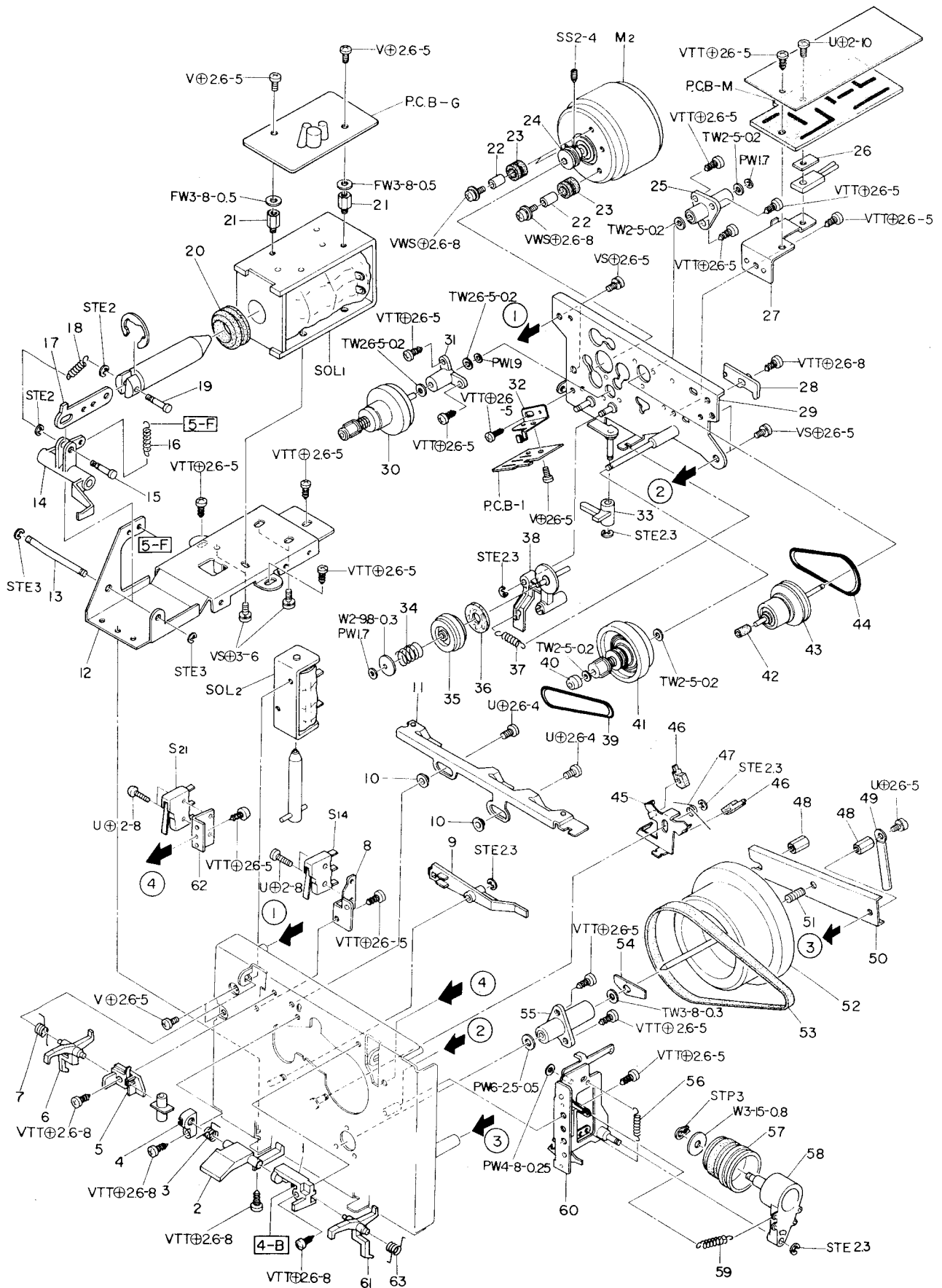
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-307-233-01		Meter cover sheet	*	2	
3-2	82-307-027-01		Frame, LED	*	1	
3-3	87-085-117-01		Bushing		2	
3-4	82-307-016-01		Push-button	*	1	
3-5	82-307-017-01		Collar, Push-button	*	1	
3-6	82-304-048-01		Selector cover	AD-6900	2	
3-7	82-304-205-01		Switch holder B	AD-6900	1	
3-8	82-304-027-01		Reset button	AD-6900	1	
3-9	87-040-100-01		Counter		1	
3-10	82-379-617-01		Ring magnet	AD-6550	1	
3-11	82-304-303-01		Spring, Reset	AD-6900	1	
3-12	82-304-206-01		Holder, Counter	AD-6900	1	
3-13	82-307-644-01		Jack plate ass'y	*	1	
3-14	82-304-647-01		Jack shield plate ass'y	AD-6900	1	
3-15	82-399-025-01		AC switch button ass'y	AD-6400	1	
3-16	82-304-210-01		Rod, Power	AD-6900	1	
3-17	82-385-383-01		Rod, Stopper	AD-6300	1	
3-18	82-304-258-01		Holder, Power	AD-6900	1	
3-19	82-397-269-01		Holder, Hall IC	AD-6550	1	
3-20	82-304-273-01		Himeron cloth, Selector A	AD-6900	1	
3-21	82-304-274-01		Himeron cloth, Selector B	AD-6900	1	
3-22	82-304-204-11		Switch holder A	AD-6900	1	
3-23	82-304-207-01		Holder A, Circuit board	AD-6900	4	
3-24	82-307-214-01		Holder, REC solenoid ass'y	*	1	
3-25	82-304-283-01		G cushion, Solenoid	AD-6900	1	
3-26	82-307-204-01		Shaft, REC solenoid	*	1	
3-27	82-307-203-01		REC lever	*	1	
3-28	82-307-206-01		E spring, REC lever	*	1	
3-29	82-304-262-01		Holder D, Circuit board	AD-6900	1	
3-30	82-307-232-01		Holder C, Circuit board	*	1	
3-31	82-307-229-01		Holder A, Circuit board	*	2	
3-32	82-304-306-01		Holder F, Circuit board	AD-6900	1	
3-33	82-307-236-01		Holder B, Circuit board	*	2	
3-34	82-307-654-01		Shield sheet, Remote control	*	1	

EXPLODED VIEW-4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
4-1	82-304-426-01		E spring, Eject lever	AD-6900	1	
4-2	82-304-236-01		Lever, Eject key	AD-6900	1	
4-3	82-304-275-01		Himeron cloth, Eject key	AD-6900	1	
4-4	82-304-205-01		Holder, Cassette box R ass'y	AD-6900	1	
4-5	82-304-252-01		E spring, Lid	AD-6900	1	
4-6	82-304-212-01		Cassette box ass'y	AD-6900	1	
4-7	82-304-046-01		Holder R, Cassette	AD-6900	1	
4-8	82-304-284-01		G cushion, Cassette	AD-6900	1	
4-9	82-304-047-01		Holder L, Cassette	AD-6900	1	
4-10	82-304-219-01		Holder, Cassette box L ass'y	AD-6900	1	
4-11	82-307-226-01		Shield plate	*	1	
4-12	82-304-327-01		M cushion, shield plate	AD-6900	1	
4-13	82-303-294-01		T spring, Holder		1	
4-14	82-392-347-01		C spring, Head	AD-6550	1	
4-15	82-365-280-01		Holder, Wire		1	
4-16	82-307-212-01		C spring, EH	*	1	
4-17	82-307-217-01		Actuating chassis ass'y	*	1	
4-18	82-303-315-01		T spring, Actuating chassis		1	
4-19	82-303-260-01		Pinch roller ass'y		1	
4-20	82-307-222-01		T spring, Pinch lever	*	1	
4-21	82-303-299-01		P spring, Actuating B		2	
4-22	82-215-341-01		Steel ball		3	
4-23	82-303-290-01		Guide, Cassette		1	
4-24	82-303-302-01		Actuating roller		3	
4-25	82-303-312-01		G cushion, Actuating		2	
4-26	82-303-367-01		G cushion, Actuating lock		1	
4-27	82-303-295-01		Fringe collar, Actuating lock		1	
4-28	82-303-288-01		Lever, Actuating lock		1	
4-29	82-303-303-01		Fringe collar, Idle lever		1	
4-30	82-303-337-01		Lever, Play idler B ass'y		1	
4-31	82-303-382-01		Felt, Sub brake		1	
4-32	82-303-342-01		Lever, Play idler ass'y		1	
4-33	82-303-325-01		E spring, Play idler		1	
4-34	82-303-274-01		Play idler ass'y		1	
4-35	82-303-298-01		P spring, Actuating A		1	
4-36	82-303-326-01		E spring, Back tension		1	
4-37	82-304-239-01		Lock plate, Lid	AD-6900	1	
4-38	82-304-287-01		Fringe collar, Lid	AD-6900	1	
4-39	82-304-318-01		T spring, Lock plate	AD-6900	1	
4-40	82-304-323-01		S cushion	AD-6900	1	
4-41	82-307-216-01		Mechanism chassis ass'y	*	1	
4-42	82-304-237-01		Slide plate, Eject	AD-6900	1	
4-43	82-304-241-01		Fringe collar, Eject	AD-6900	2	
4-44	82-304-235-01		Holder, Lid switch	AD-6900	1	
4-45	82-304-736-01		Shield plate, Motor	AD-6900	1	
4-46	82-303-387-01		Motor pulley, Flywheel B		1	
4-47	82-304-701-01		Spacer, Insulation	AD-6900	1	
4-48	82-304-256-01		Holder A, Motor	AD-6900	1	
4-49	87-087-029-01		Rubber cushion		3	
4-50	87-081-483-01		Motor screw M2.6		3	
4-51	82-307-635-01		Shield sheet, Motor	*	1	
4-52	82-304-265-01		E spring, Eject	AD-6900	1	
4-53	82-304-257-01		Holder, Motor B	AD-6900	1	
4-54	82-439-373-01		Shaft, REC/Pb head adjuster	TPR-300	1	
4-55	82-392-354-01		G cushion, Head	AD-6550	1	
4-56	87-057-576-01		Label, Head		1	

EXPLODED VIEW-5



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
5-1	82-303-285-01		Guide, Cassette R		1	
5-2	82-303-347-01		Lever, Cassette holder		1	
5-3	82-303-355-01		T spring, Cassette holder		1	
5-4	82-303-348-01		Holder, Cassette case		1	
5-5	82-303-289-01		Guide, Cassette L		1	
5-6	82-303-346-01		REC blocking lever		1	
5-7	82-303-354-01		T spring, REC blocking		1	
5-8	82-303-350-01		REC blocking holder		1	
5-9	82-303-286-01		Lever, Brake		1	
5-10	82-304-286-01		Collar B, Frange	AD-6900	2	
5-11	82-304-238-01		Slide lever, Cassette holder	AD-6900	1	
5-12	82-304-233-01		Holder, Plunger	AD-6900	1	
5-13	82-304-244-01		Shaft, Play lever	AD-6900	1	
5-14	82-304-232-01		Play lever	AD-6900	1	
5-15	82-304-243-01		Shaft B, Plunger	AD-6900	1	
5-16	82-304-248-01		E spring, Plunger	AD-6900	1	
5-17	82-304-234-01		Slide plate, PLAY	AD-6900	1	
5-18	82-304-249-01		E spring, Actuating	AD-6900	1	
5-19	82-304-242-01		Shaft A, Plunger	AD-6900	1	
5-20	82-304-283-01		G cushion, Plunger	AD-6900	1	
5-21	82-304-307-01		Brass post, Circuit board	AD-6900	2	
5-22	87-085-135-01		Bushing		3	
5-23	87-087-029-01		Rubber cushion		3	
5-24	82-303-300-01		Motor pulley, FR		1	
5-25	82-303-340-01		Shaft bearing ass'y		1	
5-26	82-304-701-01		Spacer, Insulation	AD-6900	1	
5-27	82-304-259-01		Holder, Motor circuit board	AD-6900	1	
5-28	82-304-260-01		Guide, Lock plate	AD-6900	1	
5-29	82-303-233-01		Mechanism chassis sub ass'y		1	
5-30	82-307-207-01		Supply reel platform	*	1	
5-31	82-303-396-01		Shaft bearing B ass'y		1	
5-32	82-307-208-01		Holder, SDME	*	1	
5-33	82-303-292-01		FR eject lever		1	
5-34	82-303-322-01		C spring, FR idler		1	
5-35	82-303-271-01		Idler pulley FR ass'y		1	
5-36	82-303-335-01		Felt		1	
5-37	82-303-353-01		E spring, FR lever		1	
5-38	82-303-277-01		FR lever ass'y		1	
5-39	82-304-247-01		Rubber belt, Counter	AD-6900	1	
5-40	82-392-352-01		Cap, Take-up reel platform	AD-6550	1	
5-41	82-303-249-01		Take-up reel platform ass'y		1	
5-42	82-303-309-01		Driver rubber		1	
5-43	82-303-330-01		Slip pulley ass'y		1	
5-44	82-303-385-01		Rubber belt, FRB		1	
5-45	82-303-297-01		Brake slide plate		1	
5-46	82-439-426-01		Brake shoe A	TPR-300	2	
5-47	82-303-318-01		T spring, Brake		1	
5-48	82-303-314-01		Nut		2	
5-49	87-038-039-01		Wire binder		1	
5-50	82-303-291-01		Flywheel plate		1	
5-51	82-385-311-01		Thrust screw	AD-6300	1	
5-52	82-303-246-01		Flywheel ass'y		1	
5-53	82-303-310-01		Rubber belt, Flywheel		1	
5-54	82-303-224-01		P spring, Flywheel		1	
5-55	82-392-256-01		Shaft bearing ass'y	AD-6550	1	
5-56	82-304-251-01		E spring, Lock lever	AD-6900	1	
5-57	82-397-265-01		Drum oil ass'y	AD-6550	1	
5-58	82-397-271-01		Idler oil ass'y	AD-6550	1	
5-59	82-397-302-01		Spring oil	AD-6550	1	
5-60	82-304-221-01		Lock lever ass'y	AD-6900	1	
5-61	82-303-349-01		Lever CrO ₂		1	
5-62	82-303-351-01		Holder, CrO ₂		1	
5-63	82-303-356-01		T spring, CrO ₂		1	

ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
« REC/PB CIRCUIT BOARD SECTION »			« VTP CIRCUIT BOARD SECTION »		
PCB-A	82-307-604-51	REC/PB circuit board	PCB-C	82-307-646-11	VTP circuit board
IC1,2	82-304-682-01	IC, TA7220P	IC1	87-027-235-01	IC, NJM-4558D
Q1,2	89-107-505-01	Transistor, 2SA750 (E)	IC3,4	87-027-261-01	IC, LB-1405
Q3,4	89-314-005-01	Transistor, 2SC1400 (E)	Q1	89-309-455-61	Transistor, 2SC945L (P,Q)
Q5,6,9,10, 13,14	89-312-222-01	Transistor, 2SC1222 (E)	Q2,4,5,6 7,8	89-107-335-01	Transistor, 2SA733 (K)
Q7,8,11,12 19,20,25,26	89-402-275-01	Transistor, 2SD227 (V)	Q3,11,12 13,14	89-309-455-01	Transistor, 2SC945L (Q)
Q15,16,17,18 23,31,32,33 34,35,36,37 38,39,40	89-309-455-61	Transistor, 2SC945L (P,Q)	D1	87-027-365-01	Diode, S5277B
Q21	89-404-143-01	Transistor, 2SD414 (Q)	D3,4,11,12	87-027-097-01	Diode, 1S1555
Q22	89-311-734-01	Transistor, 2SC1173 (Y)	D5	87-026-066-01	Diode, M8513A (O)
Q24	89-107-335-61	Transistor, 2SA733 (K,P)	D6	87-027-416-01	Zener diode, HZ3C2
Q27	89-318-154-51	Transistor, 2SC1815 (Y)	D7	87-027-220-01	Zener diode, WZ-182
Q28	89-316-347-01	Transistor, 2SC1634 (7)	D8,9,10,13 14	88-052-188-11	Diode, 1S188 (FM)
Q29	89-405-712-01	Transistor, 2SD571 (L)	D17	87-027-140-01	Zener diode, 05Z-6.2
D5,12,15,16 17	87-027-097-01	Diode, 1S1555	SFR1,2	87-021-478-01	Semi-fixed resistor, 10kΩ-B
D4	87-027-140-01	Zener diode, 05Z-6.2	SFR3,4	87-021-477-01	Semi-fixed resistor, 4.7kΩ-B
D6	82-372-631-01	Zener diode, XZ-315	SFR5	87-021-480-01	Semi-fixed resistor, 47kΩ-B
D7,8,11,13	87-027-163-01	Encapsulated diode, 1B4B1	SFR6	87-021-476-01	Semi-fixed resistor, 1kΩ-B
D9,10	87-027-199-01	Zener diode, 05Z-15U	PIN	87-032-633-11	Pin, 3P
D14	87-027-436-01	Zener diode, HZ11B1	PIN	87-032-639-01	Pin, 9P
L1,2	82-306-642-01	Coil, 6.8 mH	PIN-17	87-032-903-01	Pin, 3P
L3,4,5,6	82-306-641-01	Coil, 4.7 mH	PIN-14	87-032-904-01	Pin, 4P
L7,8	82-304-701-01	Coil, 22 mH	PIN-16	87-032-906-01	Pin, 6P
OSC UNIT	82-307-652-01	OSC unit	PIN-15	87-032-910-01	Pin, 10P
TC1,2	85-708-604-21	Trimmer, 30pF			< Capacitors >
VR5,6,7	82-307-602-01	Volume, 50kΩ-K (BIAS ADJUST)	C2	87-015-328-01	0.22μF 50V Electrolytic LL
S1	82-307-606-01	Slide switch (REC/PB)	C4	87-019-080-01	1μF 35V Tantalum
S2,6	82-304-627-01	Lever switch (INPUT SELECTOR, METER)			« DOLBY-NR CIRCUIT BOARD SECTION »
S3,4,5	82-304-628-01	Lever switch (DOLBY-NR, BIAS, EQ)	PCB-D	87-033-157-11	Dolby-NR circuit board
SFR1,2,3,4,5	87-021-363-01	Semi-fixed resistor, 47kΩ-B	IC1	87-027-381-01	IC, LM101 (N)
SFR11,12,13 14	87-021-366-01	Semi-fixed resistor, 10kΩ-B	LPF1	87-030-060-01	Low pass filter
SFR6,7,9,10	87-021-422-01	Semi-fixed resistor, 22kΩ-B	PIN	87-032-640-01	Pin, 10P
		< Resistors >			< Resistor >
R29,30	82-379-675-01	7.32kΩ 1/4W ±2%	R2	87-025-209-01	3.3kΩ 1/4W ±1%
⚠ R183,184	87-029-017-01	10Ω 1/4W Fuse resistor			< Capacitors >
⚠ R181	87-029-016-01	22Ω 1/2W Fuse resistor	C1	87-015-241-01	1μF 50V Electrolytic LL
		< Capacitors >	C6	82-371-643-01	4700pF ±2% PP
C9,10	87-015-242-01	2.2μF 50V Electrolytic LL	C2	82-371-642-01	5600pF ±2% PP
C27,28	87-015-246-01	4.7μF 25V Electrolytic LL	C7	82-371-641-01	0.027μF ±2% PP
C13,14	87-014-053-01	680pF PP			« MICROPROCESSOR CIRCUIT BOARD SECTION »
C73,74	87-968-410-01	100pF 500V Dipped mica	PCB-E	82-319-602-21	Microprocessor circuit board
		« MIC/REC LOGIC CIRCUIT BOARD SECTION »	IC1	87-027-425-01	IC, μPD-546C-66
PCB-B	82-307-647-11	MIC/REC logic circuit board	IC2,3,4	87-027-426-01	IC, IR-2403
IC1,2	87-027-182-01	IC, μPC1023H	Q1,2,3,4, 5,6,10,12	89-309-455-01	Transistor, 2SC945L (Q)
Q4,8,11	89-309-455-61	Transistor, 2SC945L (P,Q)	Q7,9,11	89-404-143-01	Transistor, 2SD414 (Q)
Q9,10	89-404-143-01	Transistor, 2SD414 (Q)	Q8	89-402-344-01	Transistor, 2SD234 (Y)
D2	87-027-140-01	Zener diode, 05Z-6.2	Q13	89-309-457-01	Transistor, 2SC945L (K)
D3	87-027-365-01	Diode, S5277B	D1	88-052-188-11	Diode, 1S188 (FM)
PIN-1	87-032-897-01	Pin, 3P	D2,3,4,6, 7,8,9,11, 12,16,18	87-027-097-01	Diode, 1S1555
PIN-2	87-032-906-01	Pin, 6P			

Symbol No.	Part No.	Description
D5	87-027-416-01	Zener diode HZ3C2
D10	87-026-069-01	Zener diode, WZ-052
D13,14	87-027-365-01	Diode, S5277B
D15	87-027-140-01	Zener diode, 05Z-6.2U
D17	87-027-171-01	Zener diode, RD2.7E
RY1,S18	82-304-651-01	Relay, L
RY2,S19	84-196-630-01	Relay, BR211AD
X1	87-008-186-01	Ceramic, CSB400RI
PIN-7	87-032-904-01	Pin, 4P
PIN-6,22	87-032-905-01	Pin, 5P
PIN-5	87-032-906-01	Pin, 6P
PIN-9	87-032-908-01	Pin, 8P
PIN-8	87-032-909-01	Pin, 9P
PIN-4	87-032-910-01	Pin, 10P
PIN-10	87-032-912-01	Pin, 12P
< Resistor >		
R51	87-029-015-01	10Ω 1/4W Fuse resistor (E,K,G model only)
« TERMINAL CIRCUIT BOARD SECTION »		
PCB-G	82-304-753-01	Terminal circuit board
Q1	82-309-455-01	Transistor, 2SC945L (Q)
D1	87-027-365-01	Diode, S5277 (B)
D2	88-052-188-11	Diode, 1S188 (FM)
« VOLUME CIRCUIT BOARD SECTION »		
PCB-H	82-307-616-21	Volume circuit board
Q1,2	89-402-275-01	Transistor, 2SD227 (V)
D1	87-026-069-01	Zener diode, WZ-052
VR1,2	82-304-680-11	Volume, 20kΩ-A (RECORD LEVEL)
VR3,4	82-307-605-01	Volume, 10kΩ-A (OUTPUT LEVEL)
« DME CIRCUIT BOARD-2 SECTION »		
PCB-I	82-307-637-01	DME circuit board-2
DME	82-397-642-11	DM-101A
« REMOTE CONTROL CIRCUIT BOARD SECTION »		
PCB-J	82-307-653-11	Remote control circuit board
J9	82-307-669-01	Connector
« SWITCH CIRCUIT BOARD SECTION »		
PCB-K	82-304-740-11	Switch circuit board ass'y
D1,6	87-026-112-01	Light emitting diode, SEL-1033 (RED)
D2,3,4,5	87-026-113-01	Light emitting diode, SEL-303E (GRN)
« DME CIRCUIT BOARD-1 SECTION »		
PCB-N	82-307-655-01	DME circuit board-1
DME	82-397-642-11	DM-101A
« METAL CIRCUIT BOARD SECTION »		
PCB-O	82-304-752-01	Metal circuit board
L1,2	82-304-715-01	Coil, 3.9 mH
RY1	84-184-612-01	Relay,
SFR1,2	87-021-366-01	Semi-fixed resistor, 10kΩ-B
PIN-19	87-032-903-01	Pin, 3P
PIN-18,20	87-032-904-01	Pin, 4P
« PEAK HOLD CIRCUIT BOARD SECTION »		
PCB-P	82-307-649-11	Peak hold circuit board
IC1,2	87-027-298-01	IC, C-MOS, TC4001P-NOR
IC3	87-027-299-01	IC, C-MOS, TC4030P, EXC-OR
Q1,2,3,4	89-309-455-61	Transistor, 2SC945L (P,Q)
Q5,6,7,8	89-107-335-01	Transistor, 2SA733 (K)

Symbol No.	Part No.	Description
« PEAK LED CIRCUIT BOARD SECTION »		
PCB-Q	82-307-648-01	Peak LED circuit board
D1~9	87-027-260-01	Light emitting diode, MULTI (-15, -7, -3, 0, 2, 4, 5, 6, 7)
« JACK CIRCUIT BOARD SECTION »		
PCB-R	82-307-622-01	Jack circuit board
D2	87-027-097-01	Diode, 1S1555
RY1,S7	84-184-612-01	Reed Relay (LINE OUT MUTING)
« RX CIRCUIT BOARD SECTION »		
PCB-S	82-307-640-21	RX circuit board
IC1	87-027-355-01	IC, LF357
IC2	87-027-235-01	IC, 4558
IC3	87-027-300-01	IC,555 TIMER
Q1	89-309-455-61	Transistor, 2SC945L (P,Q)
D2	88-052-188-11	Diode, 1S188 (FM)
D3	87-027-097-01	Diode, 1S1555
PIN-21	87-032-903-01	Pin, 3P
« FUSE CIRCUIT BOARD SECTION »		
PCB-T	82-304-731-01	Fuse circuit board (C,U,E,K,G model only)
F1	87-035-117-01	Fuse, "T" 1.25A (C model only)
	87-098-165-01	Fuse caution label (C model only)
F1	87-035-298-01	Fuse, 1.25A (U model only)
	87-098-166-01	Fuse caution label (U model only)
F3,5,6	87-035-107-01	Fuse, "T" 315 mA (E,K,G model only)
	87-098-011-01	Fuse label, "T" 315 mA (E,K,G model only)
F4	87-035-063-01	Fuse, "T" 630 mA (E,K,G model only)
	87-098-014-01	Fuse label, "T" 630 mA (E,K,G model only)
F7,8	87-035-117-01	Fuse, "T" 1.25A (E,K,G model only)
	87-098-017-01	Fuse label, "T" 1.25A (E,K,G model only)
	87-033-147-01	Fuse clamp
< Capacitors >		
C1	87-019-096-01	0.01μF 250V Linecapacitor (E model only)
C1,2	87-019-096-01	0.01μF 250V Linecapacitor (K,G model only)
« VOLTAGE SELECTOR CIRCUIT BOARD SECTION » = E,K,G model		
PCB-U	82-304-730-01	Voltage selector circuit board
S22	87-031-364-01	Slide switch (VOLTAGE SELECTOR) (K,G model only)
S22-1,2	87-031-364-01	Slide switch (VOLTAGE SELECTOR) (E model only)
F1	87-035-075-01	Fuse, "T" 500 mA
	87-098-013-01	Fuse label, "T" 500 mA
F2	87-035-107-01	Fuse, "T" 315 mA (K,G model only)
	87-098-011-01	Fuse label, "T" 315 mA (K,G model only)
	87-032-744-01	Fuse clamp

Symbol No.	Part No.	Description
« VOLTAGE SELECTOR CIRCUIT BOARD SECTION » = H model only		
PCB-V	82-304-733-11	Voltage selector circuit board
S22	82-304-732-01	Rotary switch (VOLTAGE SELECTOR)
F1	87-035-075-01	Fuse, "T" 500 mA
	87-098-013-01	Fuse label "T" 500 mA
	87-032-744-01	Fuse clamp
« MISCELLANEOUS »		
T1	82-307-663-01	Power transformer (H model only)
T1	82-307-643-01	Power transformer (C,U model only)
T1	82-307-662-01	Power transformer (E model only)
T1	82-307-665-01	Power transformer (K,G model only)
D1	87-027-366-01	PIN diode M133HLF AW
RPH	87-046-171-01	REC/PB head
EH	87-046-173-01	Erase head
M1,PCB-L	82-304-637-11	Main motor, DC-EG
M2,PCB-M	82-304-638-01	Sub motor, DC-EG
SOL1,3	82-304-639-01	Plunger (FWD,REC)
SOL2	82-304-640-11	Plunger (FR)
J1,3,4	82-307-644-01	Jack ass'y (PHONES, LINE IN, MIC)
J2,5,6,7,8	82-304-737-01	Pin jack, 4P W/DIN (DIN, LINE OUT, LINE IN) (H,E,K,G model only)
J5,6,7,8	82-307-623-01	Pin jack, 4P (LINE OUT, LINE IN) (C,U model only)
J11	87-032-882-01	Jack, 2.5φ (PLAYERS SYNC)
J12	87-032-674-01	Jack (AC OUTLET) (C,U model only)
PL3	82-304-718-01	Pilot lamp 8V (CASSETTE WINDOW)
LM1	82-307-608-01	Level meter A (VU/TAPE TIME)
LM2	82-307-609-01	Level meter B (VU)
CP1	87-019-081-01	Compound capacitor 0.033μF 120Ω (C model only)
CP1	87-028-036-01	Compound capacitor 0.033μF 120Ω (U model only)
S8	82-307-634-01	Push switch (PEAK HOLD)
S10	87-031-408-01	Push switch (POWER) (H,E,K,G model only)
S10	87-031-480-01	Push switch (POWER) (C,U model only)
S11	82-304-723-01	Micro switch (PLAY DETECTION)
S13,14,21	82-304-724-01	Micro switch (CASSETTE DETECTION, ERASE PREVENTION DETECTION, CrO ₂ AUTO)
S15,17	82-304-630-01	Slide switch (TIMER, MEMORY)
S23	82-375-623-01	Slide switch (DIN OUTPUT LEVEL) (H,E,K,G model only)
F9	87-035-107-01	Fuse, "T" 315 mA (E,K,G model only)
	87-098-011-01	Fuse, label, "T" 315 mA (E,K,G model only)
	87-033-161-01	Fuse holder, 1P

Symbol No.	Part No.	Description
	87-034-826-01	(E,K,G model only) AC power cord (H model only)
	87-034-874-01	AC power cord (C,U model only)
	87-034-877-01	AC power cord (E model only)
	87-034-872-01	AC power cord (K model only)
	87-034-878-01	AC power cord (G model only)
	87-085-101-01	Cord bushing (H,C,U,G model only)
CON-1	82-304-703-01	Connector ass'y, 3P
CON-17	82-307-661-01	Connector ass'y, 3P
CON-19	82-307-658-01	Connector ass'y, 3P
CON-21	82-307-650-11	Connector ass'y, 3P
CON-7	82-328-617-01	Connector ass'y, 4P
CON-13	82-304-668-01	Connector ass'y, 4P
CON-14	82-307-626-01	Connector ass'y, 4P
CON-18	82-307-656-01	Connector ass'y, 4P
CON-20	82-307-657-01	Connector ass'y, 4P
CON-6	82-328-613-01	Connector ass'y, 5P
CON-12	82-304-669-01	Connector ass'y, 5P
CON-22	82-307-668-01	Connector ass'y, 5P
CON-3	82-307-660-01	Connector ass'y, 6P
CON-5	82-328-619-01	Connector ass'y, 6P
CON-11	82-304-670-01	Connector ass'y, 6P
CON-16	82-307-627-01	Connector ass'y, 6P
CON-9	82-328-620-01	Connector ass'y, 8P
CON-8	82-328-609-01	Connector ass'y, 9P
CON-4	82-328-618-01	Connector ass'y, 10P
CON15	82-307-610-01	Connector ass'y, 10P
CON-10	82-328-610-01	Connector ass'y, 12P
< Resistors >		
R35	82-304-738-01	47Ω 10W ±5% Cement resistor
R1	82-307-625-01	56Ω 10W ±5% Cement resistor
< Capacitor >		
C1	87-019-096-01	0.01μF 250V Line capacitor (H model only)

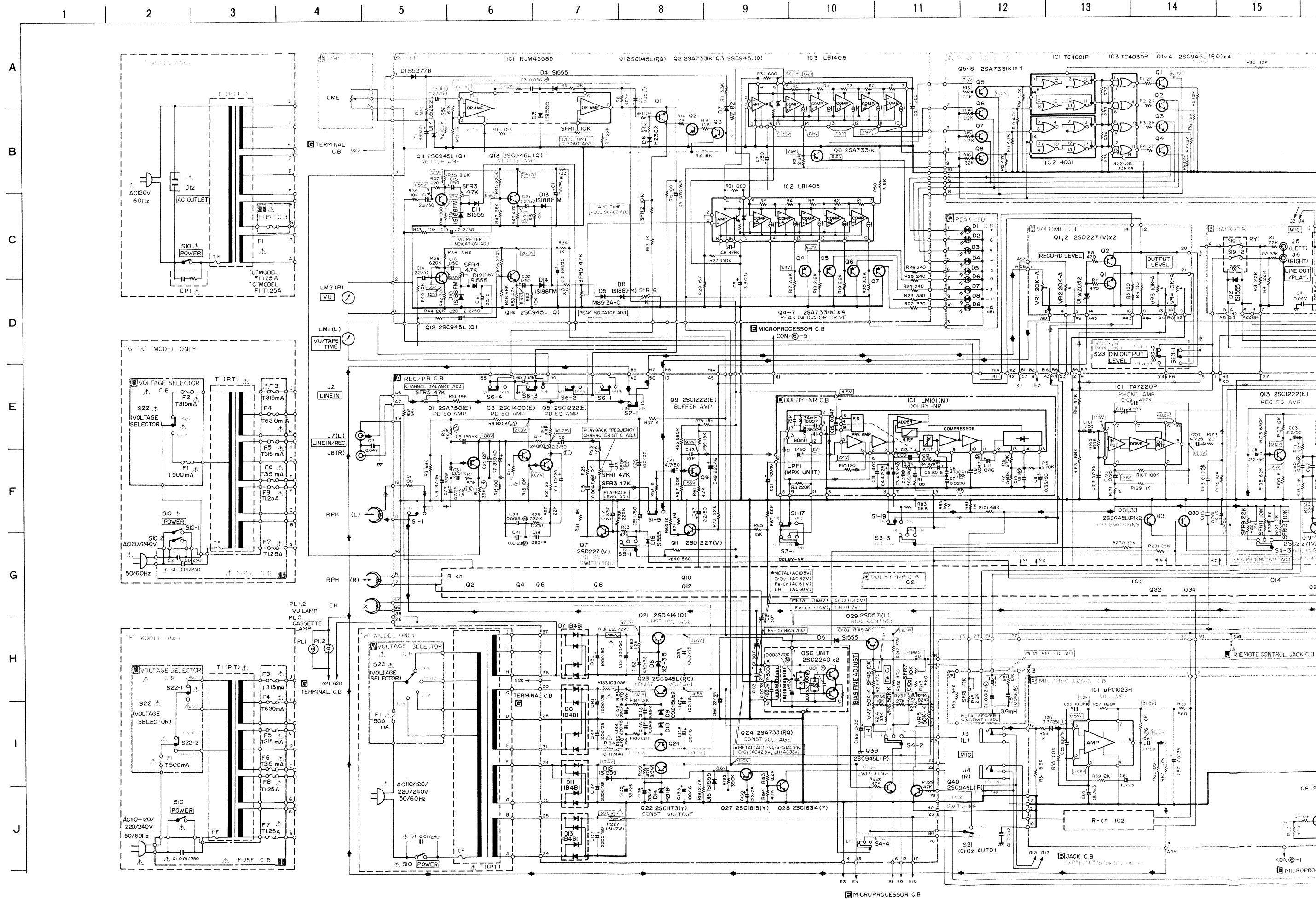
Safety component symbol

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.

[RC-100 REMOTE CONTROL SECTION]

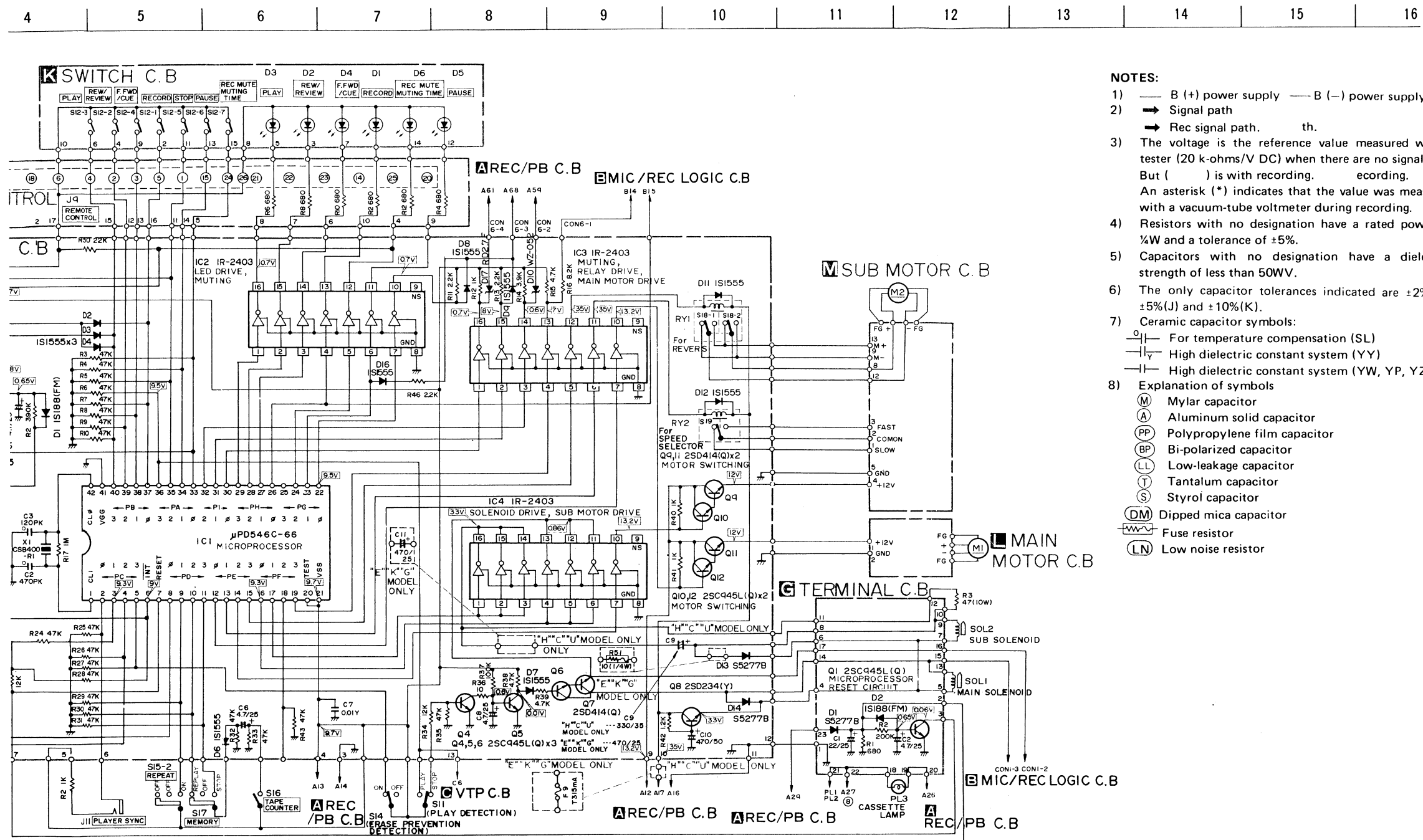
Symbol No.	Part No.	Description
« REMOTE CONTROL CIRCUIT BOARD SECTION »		
PCB-A	82-307-639-01	Remote control circuit board
« TX CIRCUIT BOARD SECTION »		
PCB-B	82-307-638-11	TX circuit board
IC1	87-027-421-01	IC, TC4028
IC2	87-027-424-01	IC, M58484
Q1~4	89-309-455-61	Transistor, 2SC945L (P,Q)
Q5	89-404-673-01	Transistor, 2SD467 (C)
D1	87-027-363-01	Light emitting diode, GL-520
D2	87-027-097-01	Diode, 1S1555
D3	87-027-356-01	Light emitting diode, GL-9P
X1	87-008-191-01	Ceramic, SFB-455R

SCHEMATIC DIAGRAM -1





[illegible]



NOTES:

- 1) — B (+) power supply — B (-) power supply

2) $\Rightarrow$ Signal path
 $\Rightarrow$ Rec signal path. th.

3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But () is with recording. e recording.
 An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

4) Resistors with no designation have a rated power of $\frac{1}{4}W$ and a tolerance of $\pm 5\%$.

5) Capacitors with no designation have a dielectric strength of less than 50WV.

6) The only capacitor tolerances indicated are $\pm 2\%(G)$, $\pm 5\%(J)$ and $\pm 10\%(K)$.

7) Ceramic capacitor symbols:

$\begin{array}{c} \text{O} \\ | \\ \text{—|—} \end{array}$ For temperature compensation (SL)
 $\begin{array}{c} \text{—|—} \\ | \\ \text{Y} \end{array}$ High dielectric constant system (YY)
 $\begin{array}{c} \text{—|—} \\ | \\ \text{Y} \end{array}$ High dielectric constant system (YW, YP, YZ)

8) Explanation of symbols

 - (M) Mylar capacitor
 - (A) Aluminum solid capacitor
 - (PP) Polypropylene film capacitor
 - (BP) Bi-polarized capacitor
 - (LL) Low-leakage capacitor
 - (T) Tantalum capacitor
 - (S) Styrol capacitor

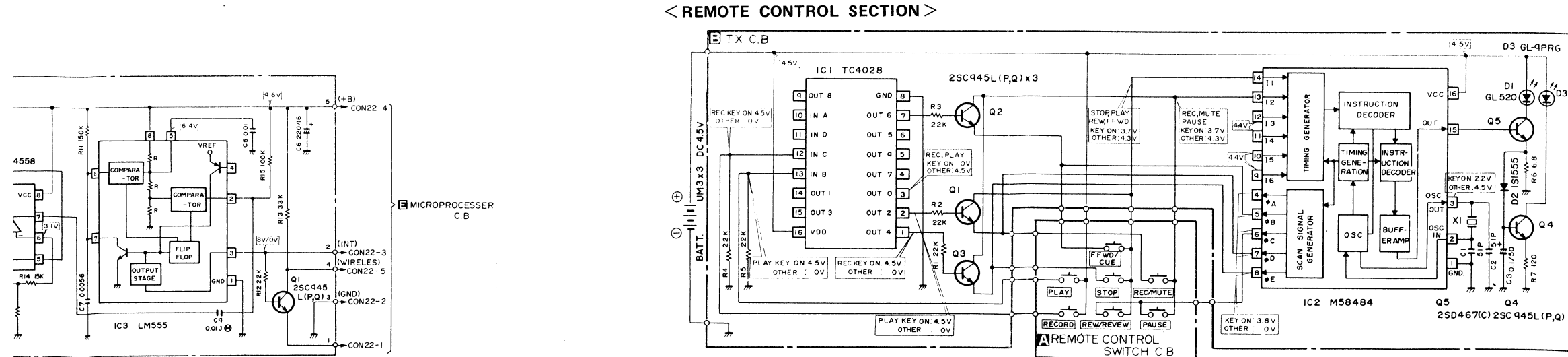
9) Switches are set to the following positions.

S1-1 ~ 20	PLAY/REC (PLAY)
S2-1 ~ 4	INPUT SELECTOR (MIC)
S3-1 ~ 4	DOLBY NR (OFF)
S4-1 ~ 4	TAPE SELECTOR-BIAS (LH)
S5-1 ~ 4	TAPE SELECTOR-EQ (LH)
S6-1 ~ 4	METER (VU)
S7-1, 2	LINE OUT MUTING (OFF)
S8	PEAK HOLD
S9	
S10	POWER (OFF)
S11	PLAY DETECTION (STOP)
S12-1 ~ 7	LOGIC CONTROL BUTTONS
S13	CASSETTE DETECTION (ON)
S14	ERASE PREVENTION (ON)
S15-1, 2	TIMER (PLAY)
S16	TAPE COUNTER
S17	MEMORY (STOP)
S18-1, 2	SUB MOTOR SELECTOR
S19	SUB MOTOR SPEED SELECTOR (SLOW)
S20-1 ~ 2	PHONES MUTING (OFF)
S21	CrO ₂ AUTO (OFF)
S22	VOLTAGE SELECTOR
S23-1 ~ 2	DIN OUTPUT LEVEL (FIXED) (VARIABLE)

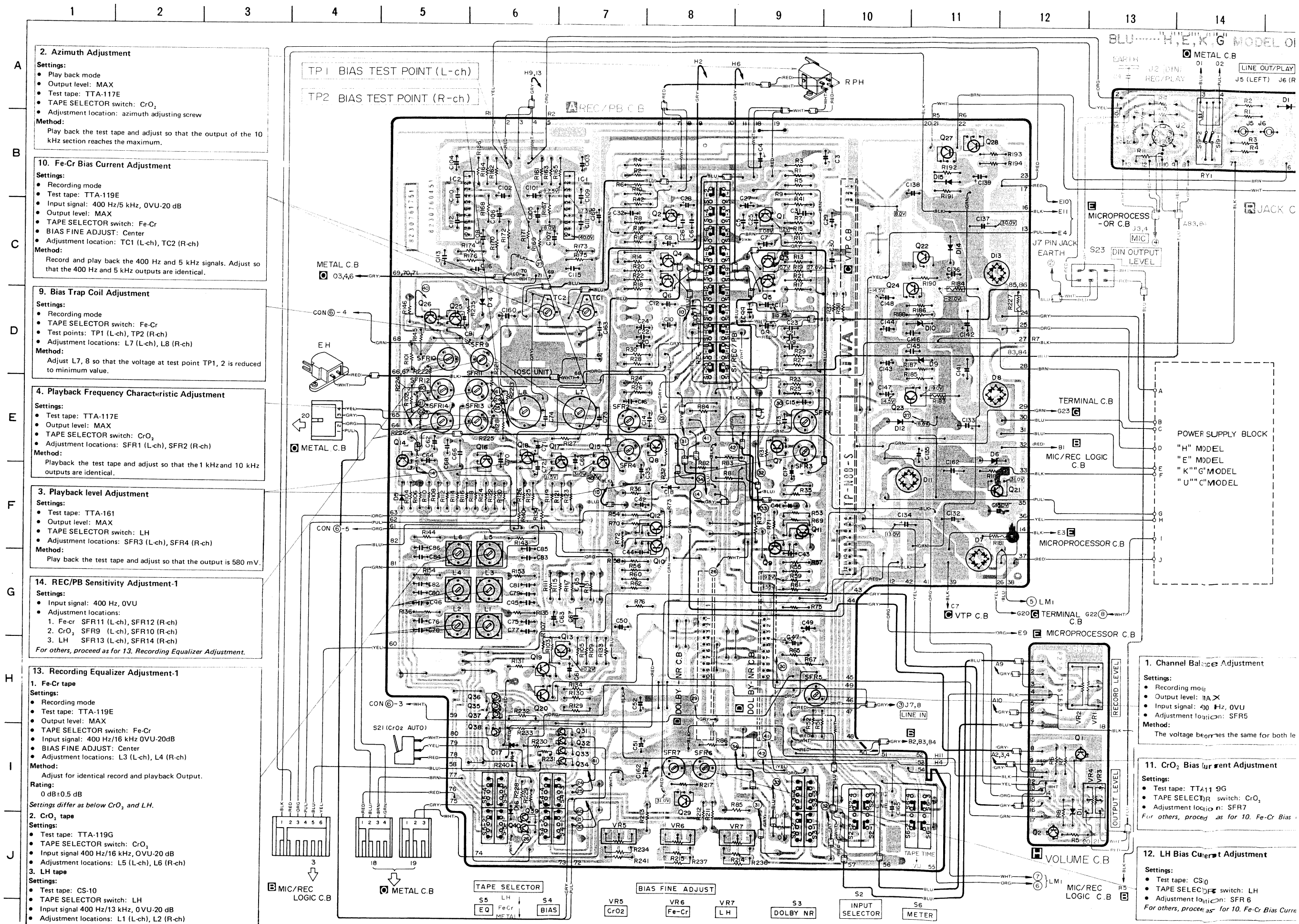
 **Safety component symbol**

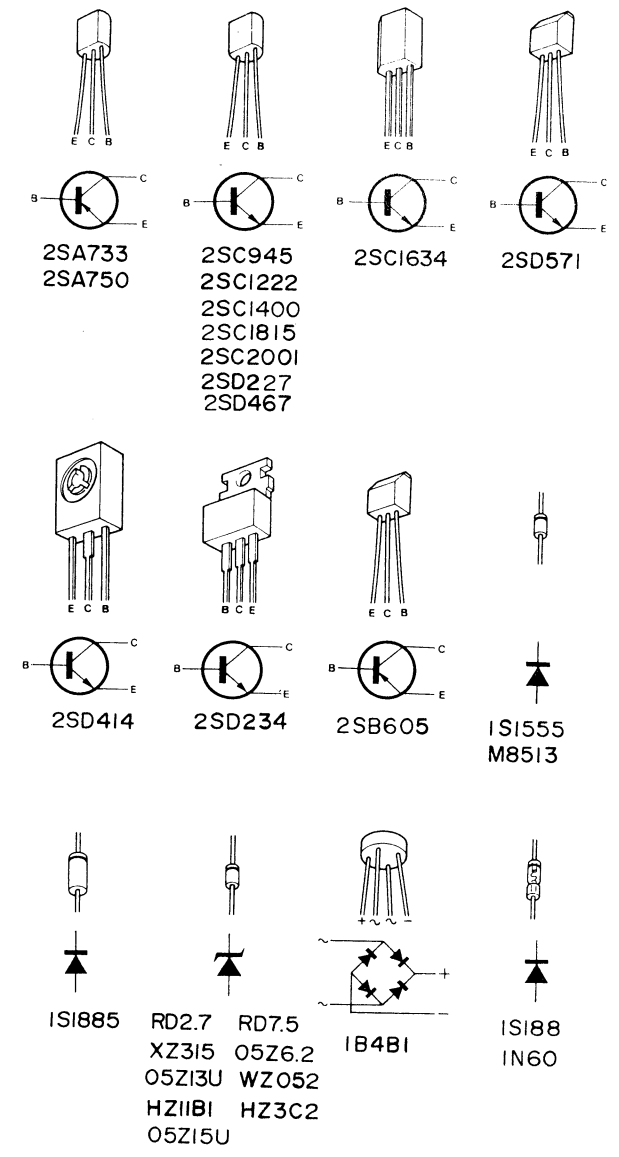
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

- This schematic diagram is subject to change without notice in the interests of improved performance.



WIRING-1





Settings:

- Recording mode
- Output level: MAX
- Input signal: 400 Hz, 0VU
- Adjustment location: SFR5

Method:

The voltage becomes the same for both left and right channels.

Settings:

- Test tape: TTA-119G
- TAPE SELECTOR switch: CrO₂
- Adjustment location: SFR7

For others, proceed as for 10. Fe-Cr Bias Current Adjustment.

Settings:

- Test tape: CS-10
- TAPE SELECTOR switch: LH
- Adjustment location: SFR 6

For others, proceed as for 10. Fe-Cr Bias Current Adjustment.

(1) B(+) Pattern B(−) Pattern Others pattern

(2) The voltage is the reference value measured with a tester
(20 K ohms/V DC) when there are no signals.
An asterisk (*) indicates that the value was measured with
a vacuum-tube voltmeter during recording.

WIRING-2

1

2

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4

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15

5. VU Meter Indication Adjustment

Settings:

- Recording mode
- Output level: MAX
- Input signal: 400 Hz, -16 dB
- Adjustment locations: SFR3 (L-ch), SFR4 (R-ch)

Method:

Adjust the RECORD LEVEL so that the output of 410 mV. Adjust so that VU meter indication is 0VU.

6. Peak Indicator Adjustment-1

Settings:

- Output level: MAX
- Input signal: 400 Hz -16 dB
- Adjustment locations: SFR5

Method:

Adjust the RECORD LEVEL so that the VU meter indication is 0VU.
Following adjust SFR5 so that the 0VU LED lights up.

7. Tape Time 0 Point Adjustment

Settings:

- TAPE SELECTOR switch: Fe-Cr
- METER: TAPE TIME
- Test tape: AIWA Fe-Cr C-60
- Adjustment location: SFR1

Method:

Run the test tape for 90 seconds beginning at the magnetic substance of the tape. (from the RPH passing point)
Then turn the tape over and adjust so that the indicator points to "0" within 30-60 seconds from that point.

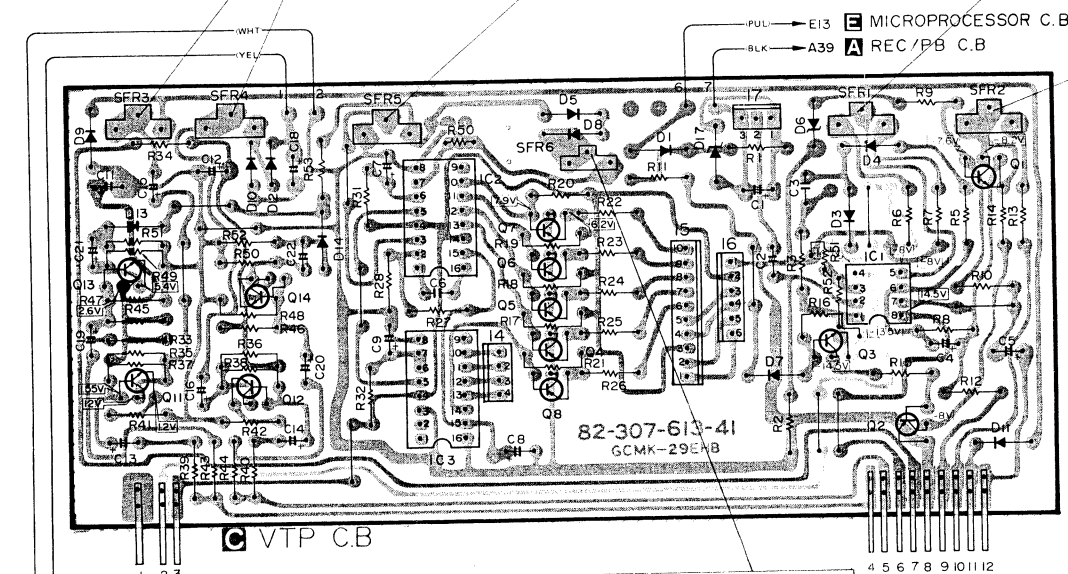
8. Tape Time Full scale Adjustment

Settings:

- TAPE SELECTOR switch: Fe-Cr
- METER: TAPE TIME
- Test tape: AIWA Fe-Cr C-60
- Adjustment location: SFR2

Method:

Adjust SFR2 so that the indicator points to "Full Scale" when first starting to wind the test tape.



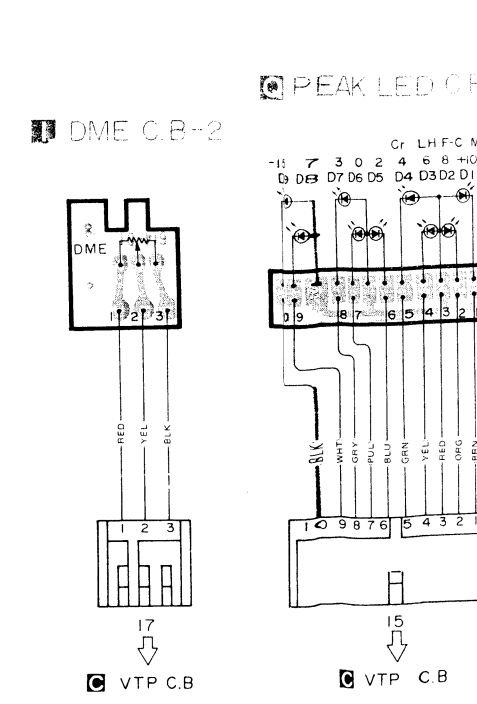
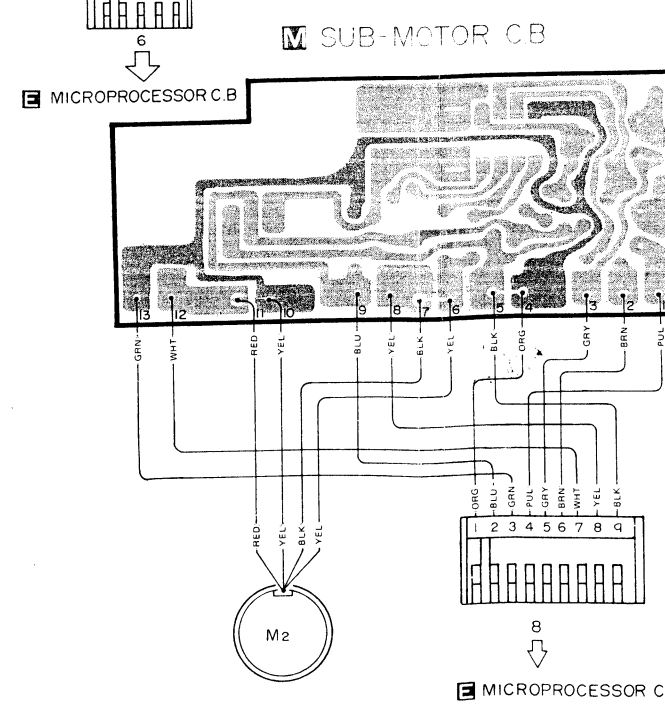
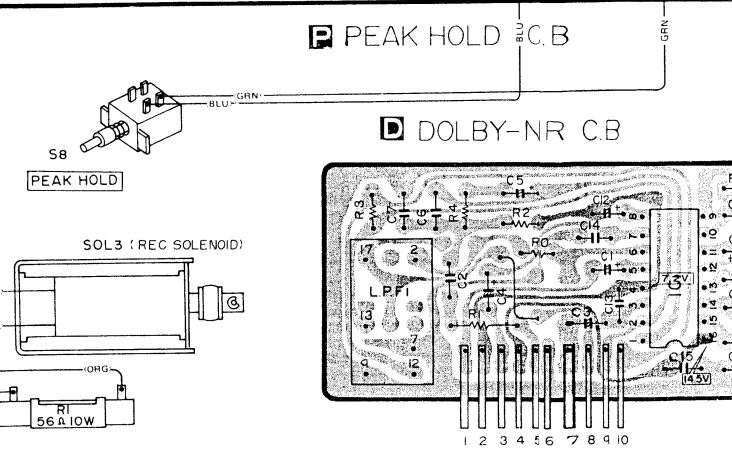
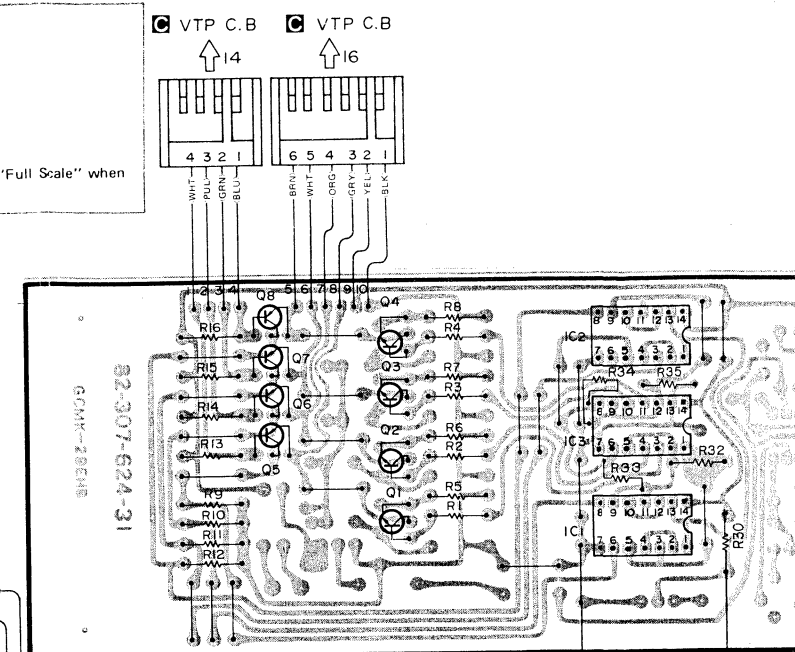
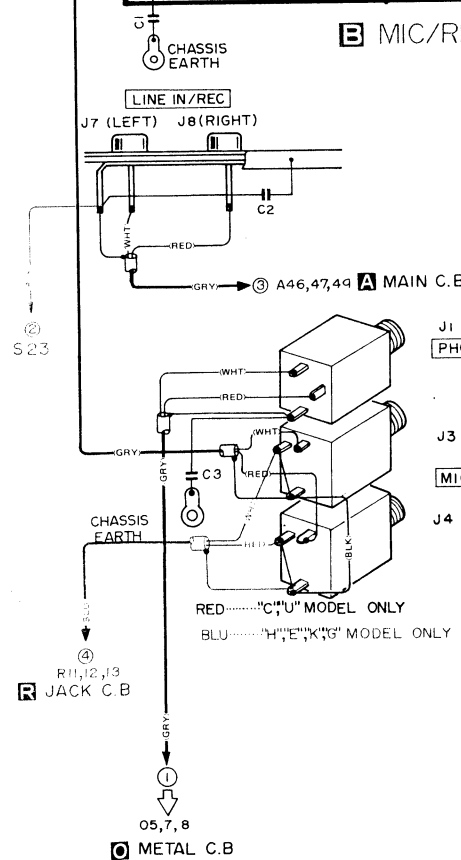
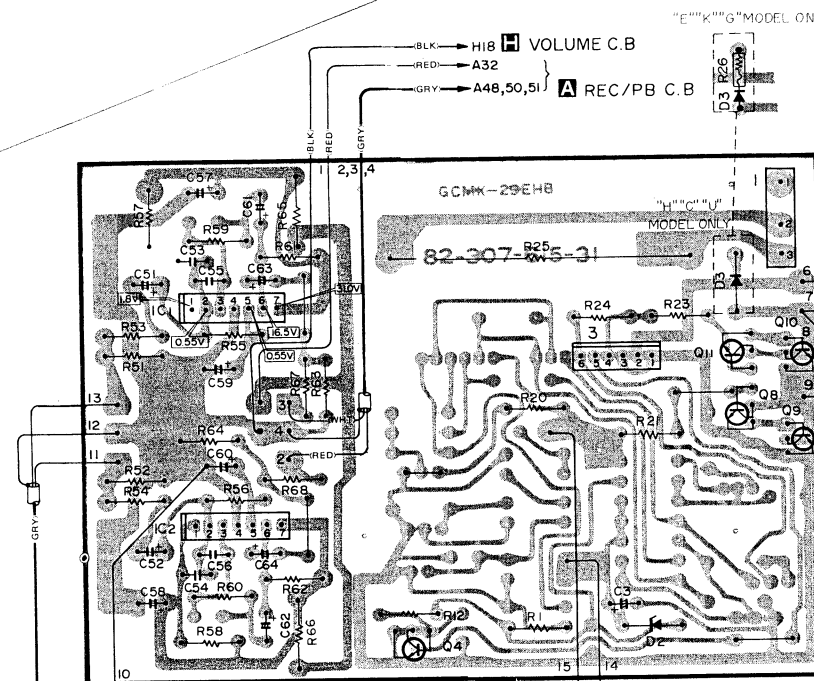
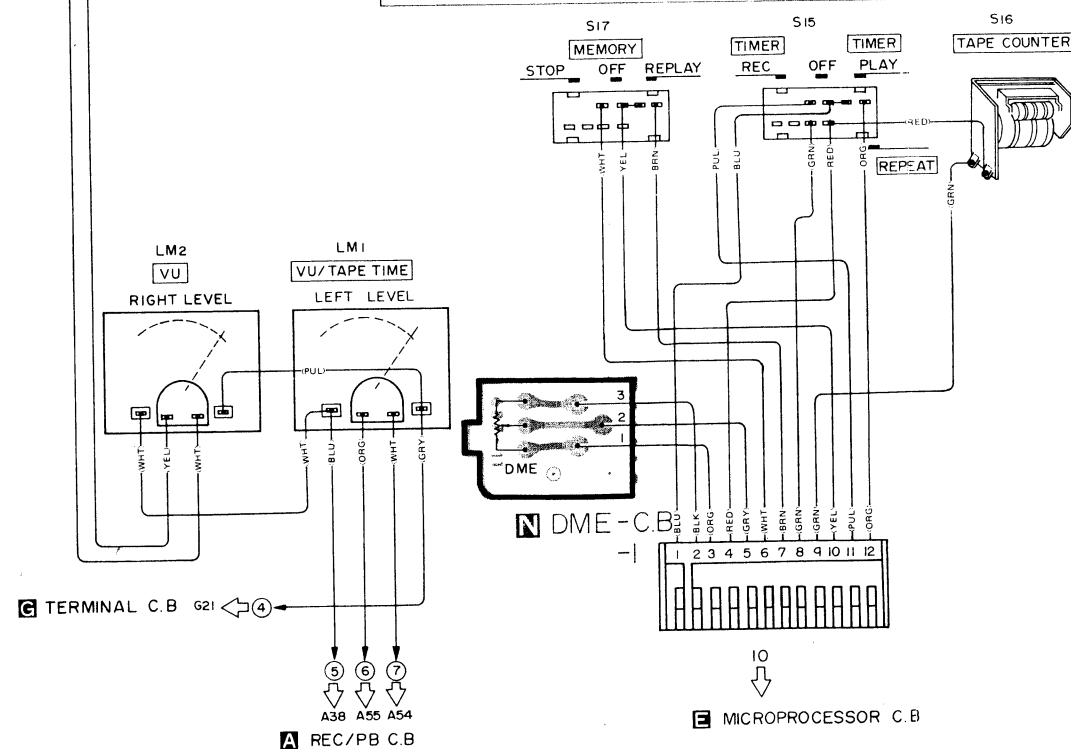
6. Peak Indicator Adjustment-2

Settings:

- Input signal: 400 Hz, 0VU +10 dB
- Adjustment location: SFR6

Method:

Adjust SFR6 so that the +10 dB LED lights up.
Finally +10 dB LED put out when input signal decrease by 5 dB.



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Indicator Adjustment-1

Level: MAX
 Signal: 400 Hz - 16 dB
 Adjustment locations: SFR5

Turn the RECORD LEVEL so that the VU meter indication

adjust SFR5 so that the 0VU LED lights up.

7. Tape Time 0 Point Adjustment

Settings:

- TAPE SELECTOR switch: Fe-Cr
- METER: TAPE TIME
- Test tape: AIWA Fe-Cr C-60
- Adjustment location: SFR1

Method:

Run the test tape for 90 seconds beginning at the magnetic substance of the tape. (from the RPH passing point)
 Then turn the tape over and adjust so that the indicator points to "0" within 30 - 60 seconds from that point

8. Tape Time Full scale Adjustment

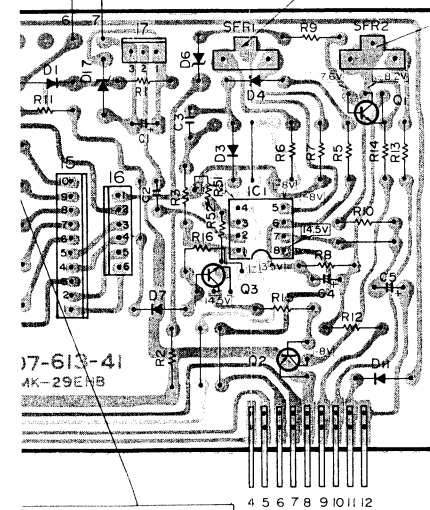
Settings:

- TAPE SELECTOR switch: Fe-Cr
- METER: TAPE TIME
- Test tape: AIWA Fe-Cr C-60
- Adjustment location: SFR2

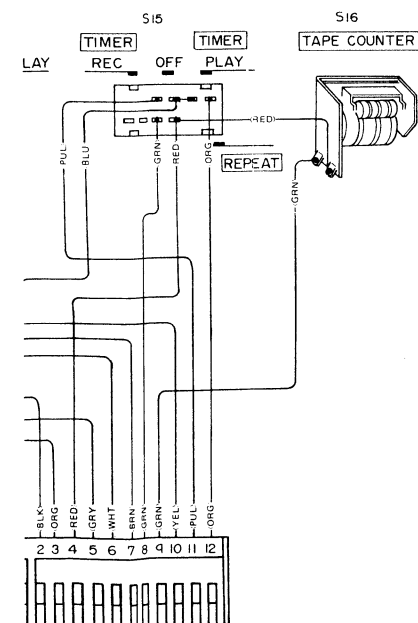
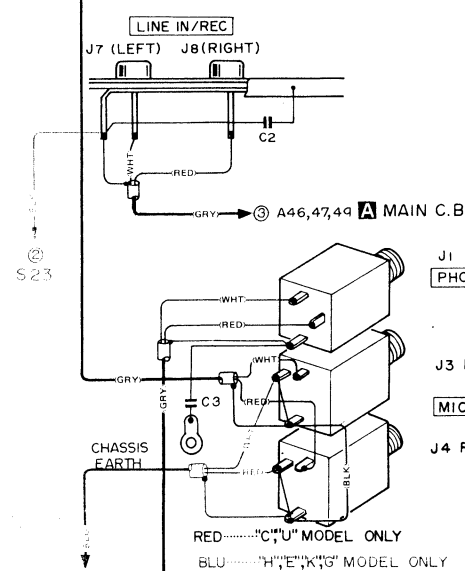
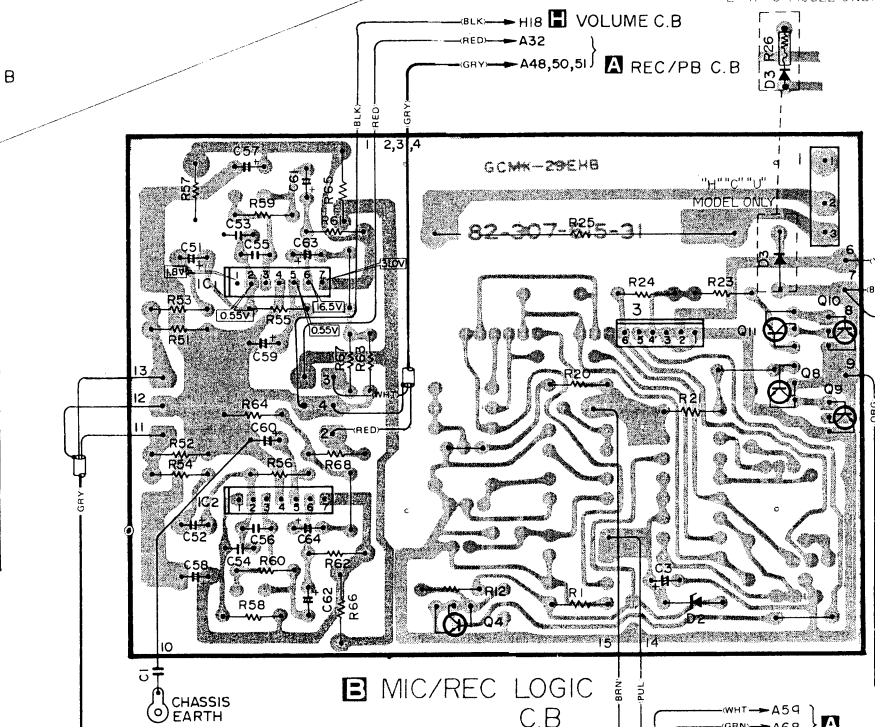
Method:

Adjust SFR2 so that the indicator points to "Full Scale" when first starting to wind the test tape.

PUL → E13 **E** MICROPROCESSOR C.B.
 BLK → A39 **A** REC/PB C.B.



D lights up.
 Input signal decrease by 5 dB.

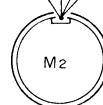
**E** MICROPROCESSOR C.B.**R** JACK C.B.**O** METAL C.B.

"E" "K" "G" MODEL ONLY

E MIC/REC LOGIC C.B.**M** SUB-MOTOR C.B.**E** MICROPROCESSOR C.B.**J1** PHONES**J3** L**MIC****J4** R

RED "C" "U" MODEL ONLY

BLU "H" "E" "K" "G" MODEL ONLY

**E** MICROPROCESSOR C.B.**C** VTP C.B. **C** VTP C.B.

↑14 ↑16

4 3 2 1 6 5 4 3 2 1

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

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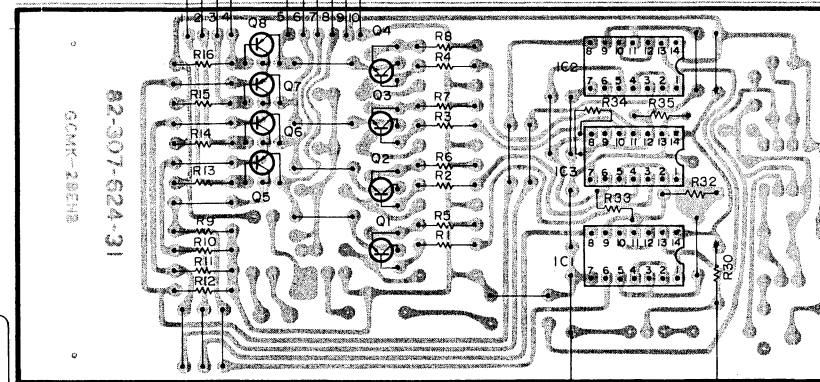
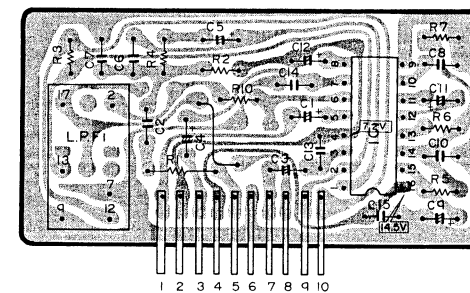
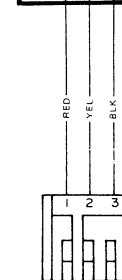
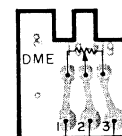
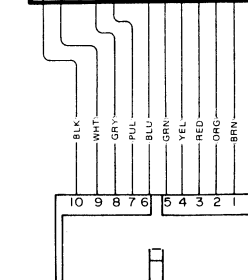
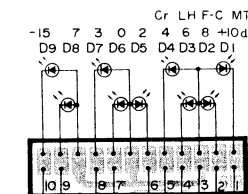
PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

PUL BLU BRN WHT GRN YEL BLK

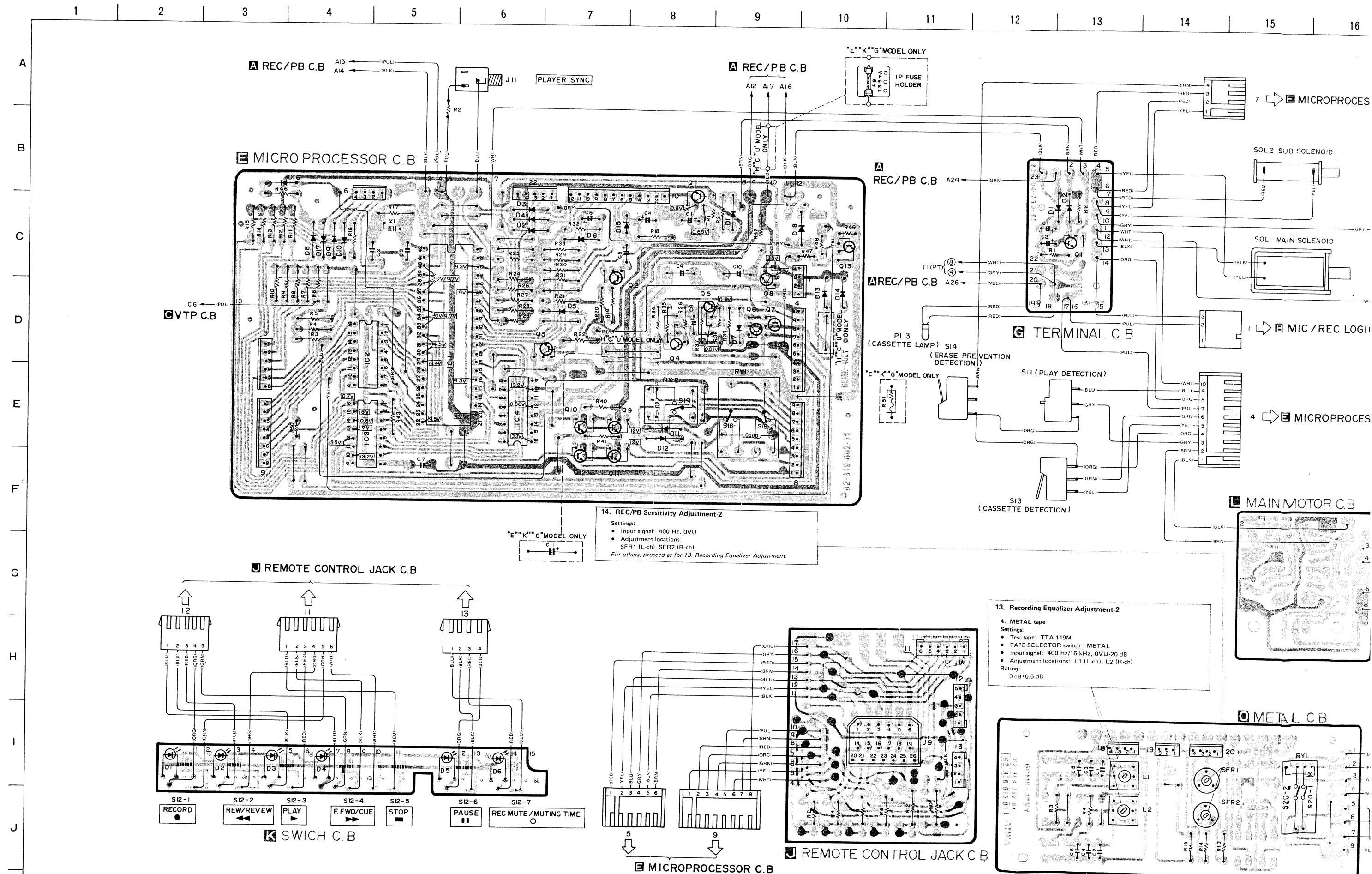
**P** PEAK HOLD C.B.**D** DOLBY-NR C.B.**A** PEAK LED C.B.**B** DME C.B.-2**C** VTP C.B.**C** VTP C.B.

NOTES

- (1) B(+) Pattern B(-) Pattern Others pattern
- (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

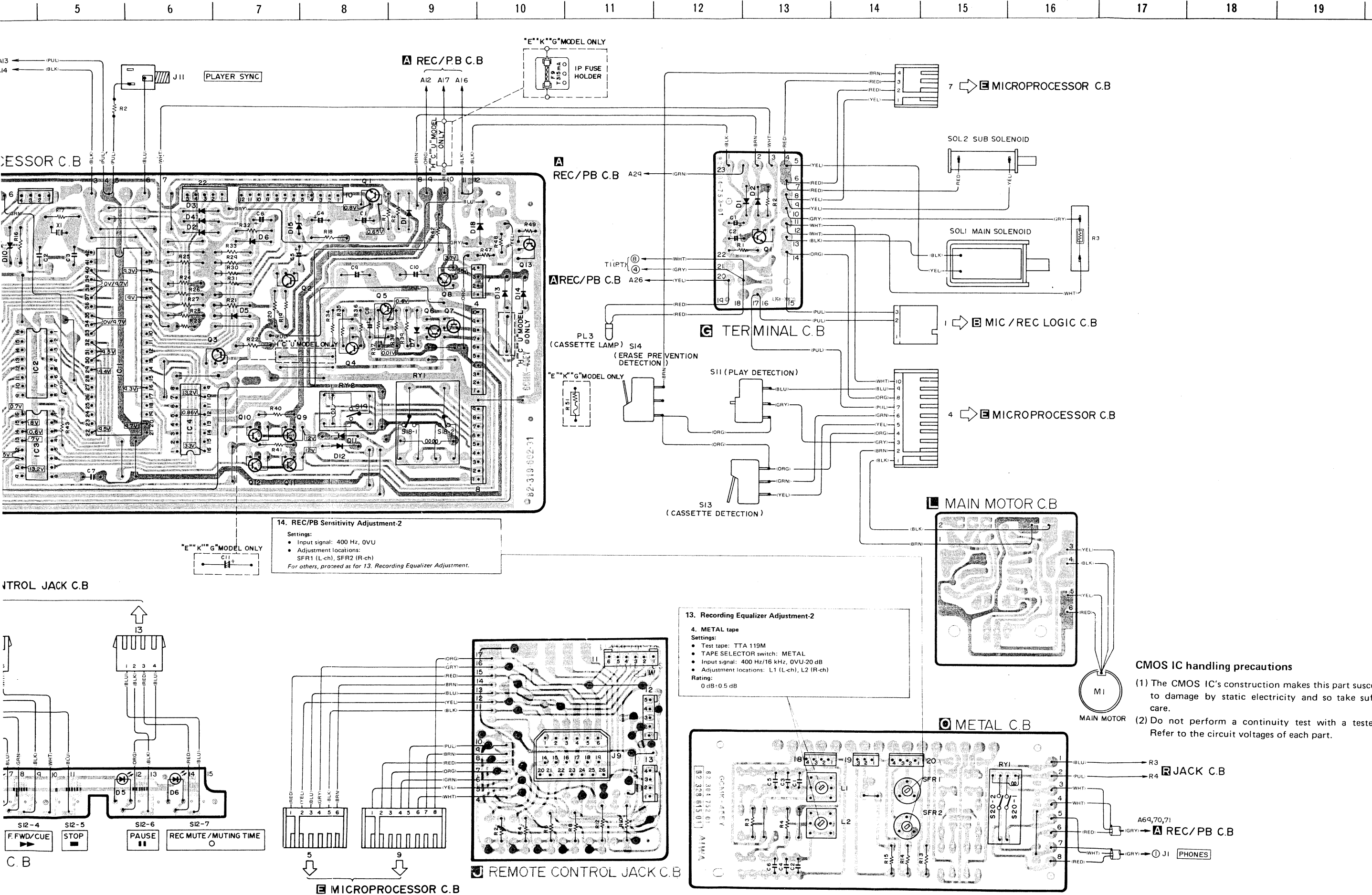
CMOS IC handling precautions

- (1) The CMOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care.
- (2) Do not perform a continuity test with a tester, etc. Refer to the circuit voltages of each part.

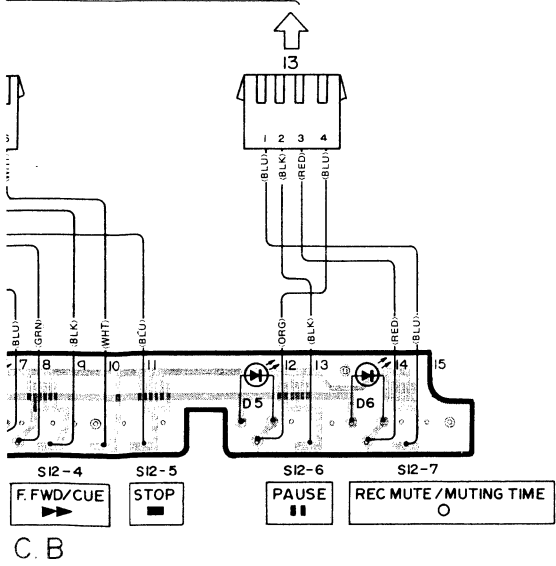


NOTES

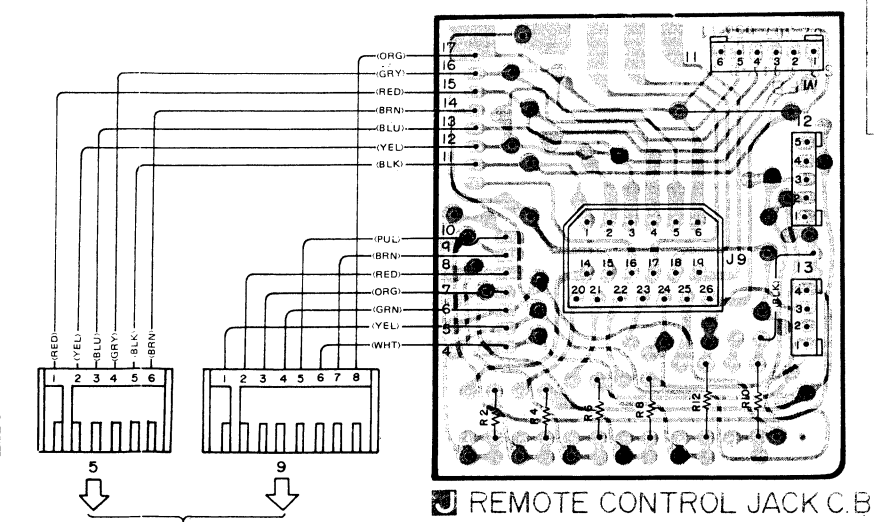
- (1) B(+) Pattern Component side pattern Others pattern
- (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.



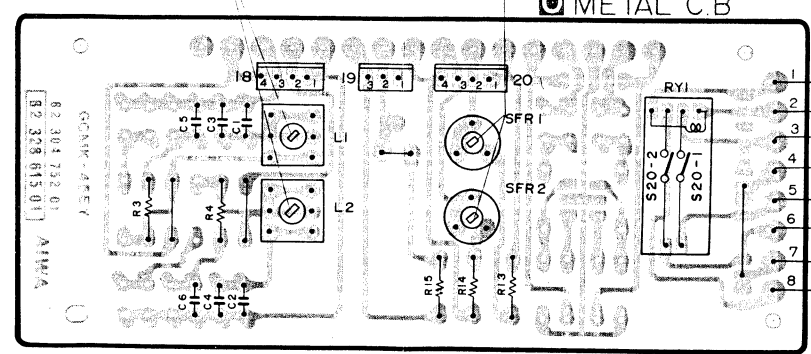
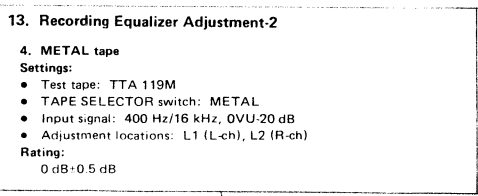
CONTROL JACK C.B.



C.B.



REMOTE CONTROL JACK C.B.



METAL C.B.

CMOS IC handling precautions

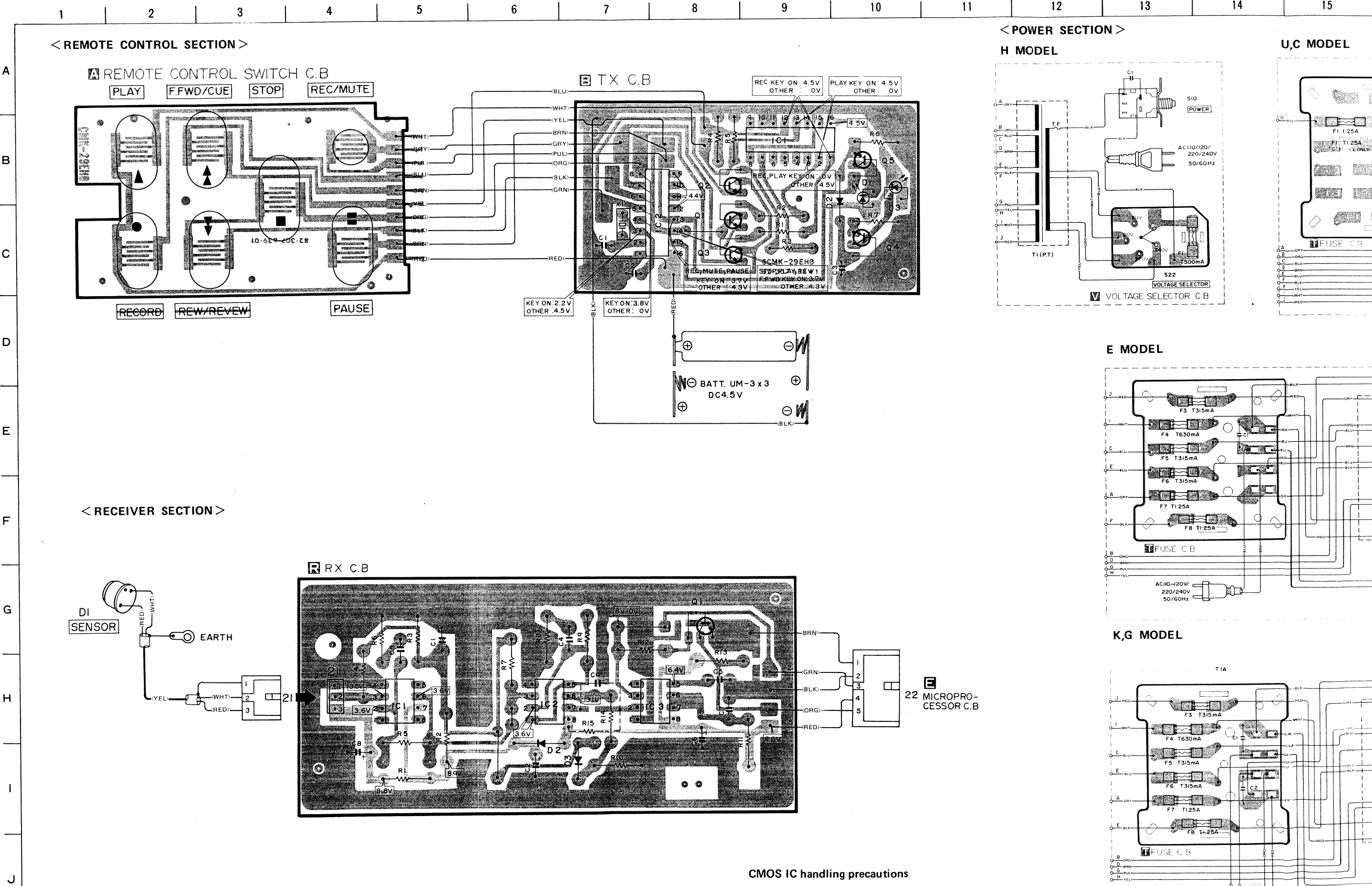
(1) The CMOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care.

(2) Do not perform a continuity test with a tester, etc. Refer to the circuit voltages of each part.

ment side pattern Others pattern

measured with a tester (20 K ohms/V DC) when there are no signals.

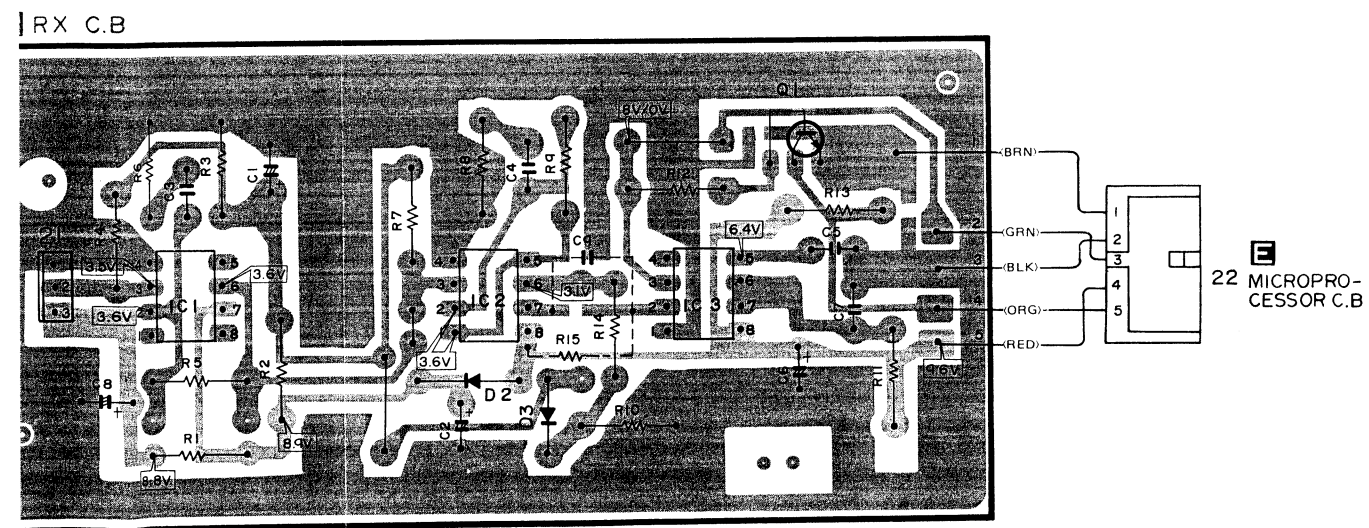
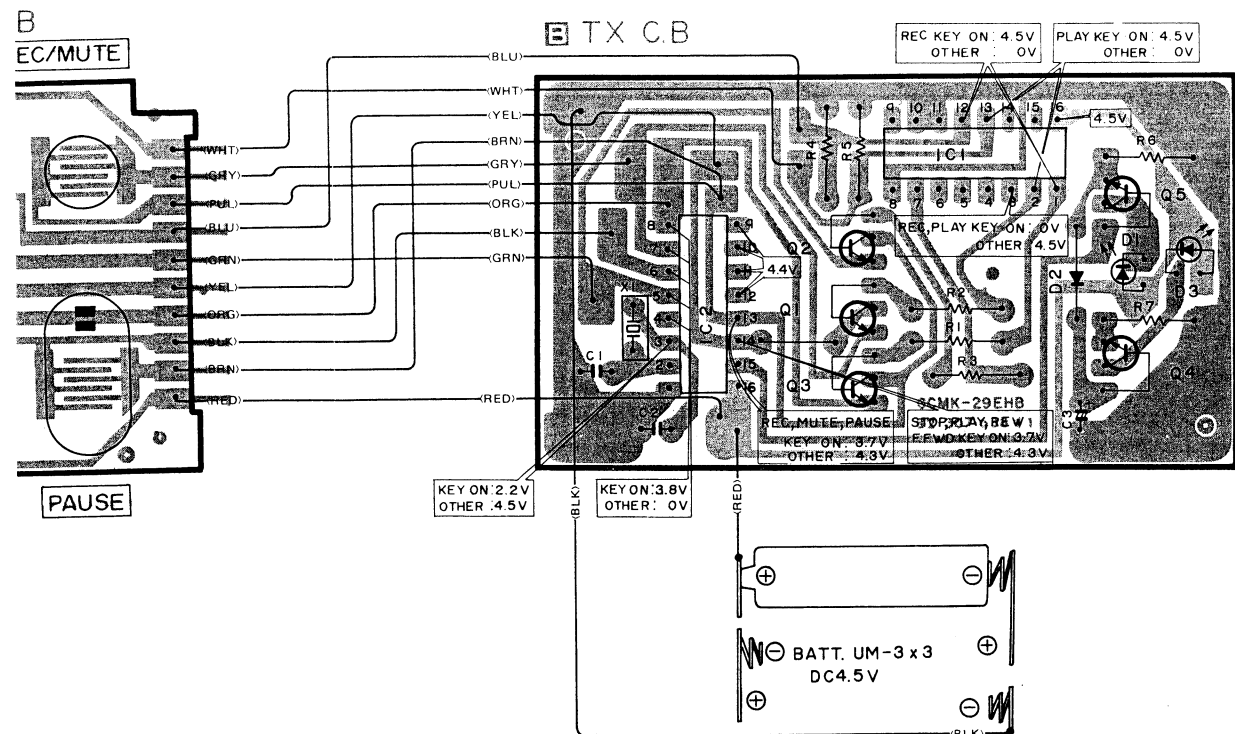
WIRING-4



- NOTES
- (1) B(+) Pattern Others pattern
- (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

- CMOS IC handling precautions
- (1) The CMOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care.
- (2) Do not perform a continuity test with a tester, etc. Refer to the circuit voltages of each part.

4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----

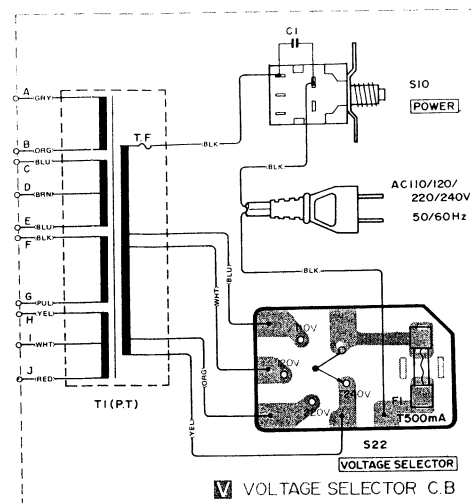


CMOS IC handling precautions

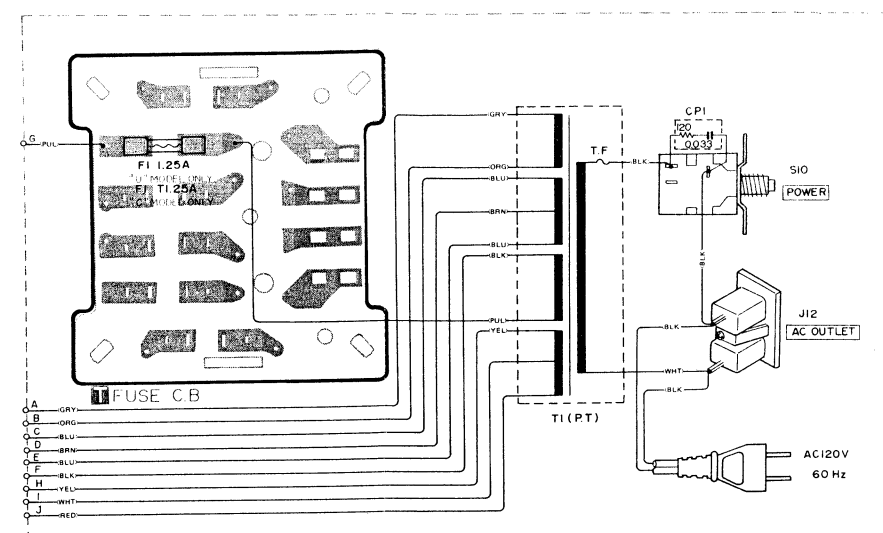
- (1) The CMOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care.
- (2) Do not perform a continuity test with a tester, etc. Refer to the circuit voltages of each part.

< POWER SECTION >

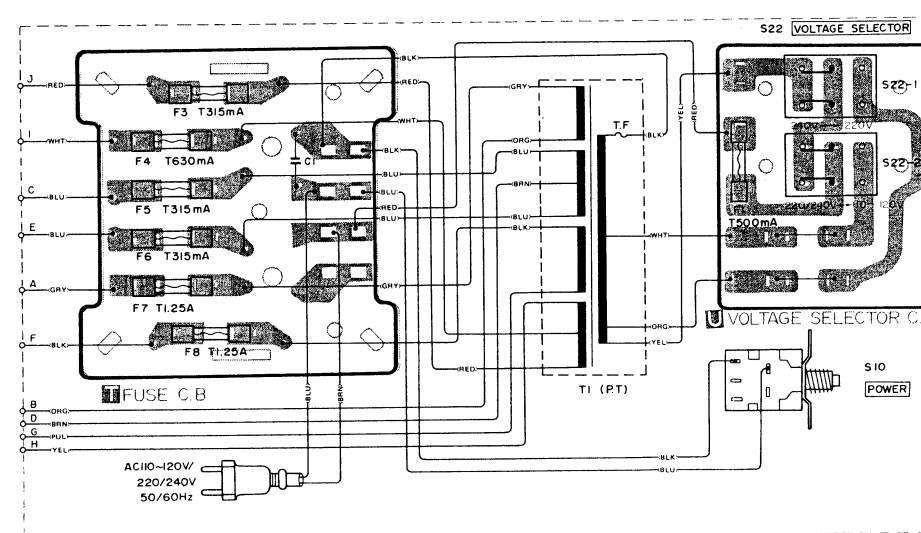
H MODEL



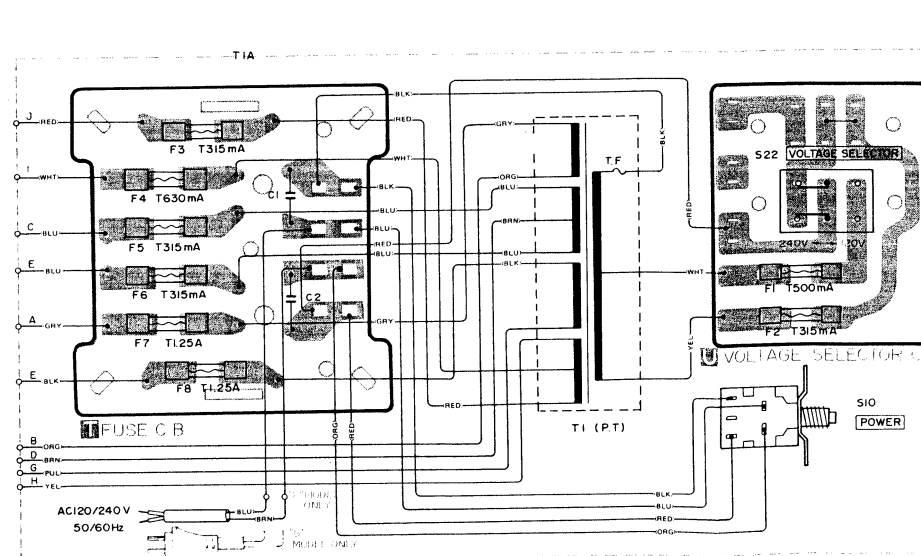
U,C MODEL



E MODEL



K,G MODEL



nttern
measured with a tester (20 K ohms/V DC) when there are no signals.

1. Logic control system

Pins are provided, as indicated below, for these control operations.

- ## 2. Initialization when microprocessor power is switched on

Once the microprocessor is reset, the internal program counter is set to "0" and the output ports are set to OFF, or in other words to OPEN.

Fig. 1 Reset circuit

Fig. 2 Waveforms at points A and B

The timer's REC/PLAY functions are checked first by the micro-processor and part of the power supply of the reset circuit is used.

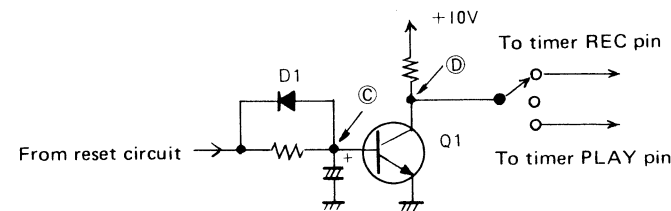


Fig. 3 Timer REC/PLAY circuit

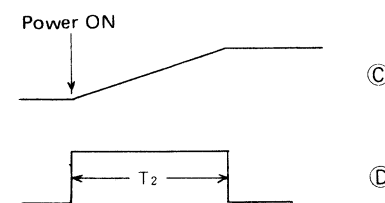


Fig. 4 Waveforms at points C and D

A diagram of a rectangular pulse. The pulse has a constant value of T_2 over a certain duration and a constant value of T_1 (where $T_1 < T_2$) over another duration. The pulse is shown as a solid line for the T_2 portion and a dashed line for the T_1 portion.

Fig. 5

The diagram shows a circuit for a DME receiver. A ring magnet is connected to a DME input. The circuit includes a 10V supply, a diode D1, a resistor R1, and two transistors Q2 and Q3. The output is connected to the DME input pin.

Fig. 6 DEM amp circuit for auto stop detection


(E)

H
 L
 
(F)

Fig. 7 Waveforms at points E and F

The plunger goes to ON with a command of the main plunger ON, and when the play detection switch which is coupled with the activation chassis goes to ON, the voltage is reduced over a fixed time interval.

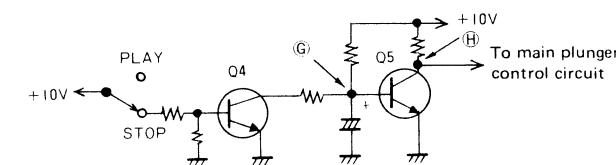
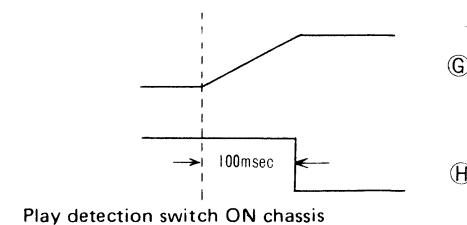


Fig. 8 Reduced voltage shift circuit



Slide chassis continuous switch ON

Fig. 9 Waveforms at points G and H

The operation symbols stand for the following:

Mode	Out put	Display					Mechanism						Muting				
		Q	$\triangleleft\triangleleft$	$\triangleright$	$\triangleright\triangleright$	$\square\square$	Q _M	Main- wav	Sub- note	Sub- FAST	Re- lay	Main- plus- g _{or}	Sub- Bum- ger	REC- AMP	REC- OSC	REC- mute	PLAY- AMP
$\triangleright$				1			1	1			1			1	1		
$\triangleright\triangleright$					1			1	1			1	1	1			1
$\triangleleft\triangleleft$		1						1	1	1		1	1	1			1
$\triangleright\triangleright\triangleright$				1	1		1	1				1	1	1			
$\triangleright\triangleleft\triangleleft$		1	1				1	1		1		1	1	1			
$\triangleright\square\square$				1		1	1							1	1		1
Q	1																
Q $\triangleleft$	1		1				1	1			1						
Q $\triangleleft\triangleleft$	1				1												
Q $\triangleleft\triangleleft\triangleleft$	1		1		1		1										
Q $\triangleleft\triangleleft\triangleleft$ Q _M	1		1			1	1	1			1					1	

Fig. 10

- * Fig. 11 gives the response to the mode prior to the function keys.
- * Fig. 12 gives the response to the double depressing of the function keys.
- * Fig. 13 shows the mechanism timing and audio muting timing with respect to the above operations.
- * Fig. 14 gives the responses to the peripheral switches.

Current mode	Input	Q	Q ₁	Q ₂	Q ₃	Q ₄	Q ₅	Q ₆	Q ₇	Q ₈	Q ₉	Q ₁₀	Q ₁₁	Q ₁₂	Q ₁₃	Q ₁₄	Q ₁₅	Q ₁₆	Q ₁₇	Q ₁₈	Q ₁₉	Q ₂₀	Q ₂₁	Q ₂₂	Q ₂₃	Q ₂₄	Q ₂₅	Q ₂₆	Q ₂₇	Q ₂₈	Q ₂₉	Q ₃₀	Q ₃₁	Q ₃₂	Q ₃₃	Q ₃₄	Q ₃₅	Q ₃₆	Q ₃₇	Q ₃₈	Q ₃₉	Q ₄₀	Q ₄₁	Q ₄₂	Q ₄₃	Q ₄₄	Q ₄₅	Q ₄₆	Q ₄₇	Q ₄₈	Q ₄₉	Q ₅₀	Q ₅₁	Q ₅₂	Q ₅₃	Q ₅₄	Q ₅₅	Q ₅₆	Q ₅₇	Q ₅₈	Q ₅₉	Q ₆₀	Q ₆₁	Q ₆₂	Q ₆₃	Q ₆₄	Q ₆₅	Q ₆₆	Q ₆₇	Q ₆₈	Q ₆₉	Q ₇₀	Q ₇₁	Q ₇₂	Q ₇₃	Q ₇₄	Q ₇₅	Q ₇₆	Q ₇₇	Q ₇₈	Q ₇₉	Q ₈₀	Q ₈₁	Q ₈₂	Q ₈₃	Q ₈₄	Q ₈₅	Q ₈₆	Q ₈₇	Q ₈₈	Q ₈₉	Q ₉₀	Q ₉₁	Q ₉₂	Q ₉₃	Q ₉₄	Q ₉₅	Q ₉₆	Q ₉₇	Q ₉₈	Q ₉₉	Q ₁₀₀	Q ₁₀₁	Q ₁₀₂	Q ₁₀₃	Q ₁₀₄	Q ₁₀₅	Q ₁₀₆	Q ₁₀₇	Q ₁₀₈	Q ₁₀₉	Q ₁₁₀	Q ₁₁₁	Q ₁₁₂	Q ₁₁₃	Q ₁₁₄	Q ₁₁₅	Q ₁₁₆	Q ₁₁₇	Q ₁₁₈	Q ₁₁₉	Q ₁₂₀	Q ₁₂₁	Q ₁₂₂	Q ₁₂₃	Q ₁₂₄	Q ₁₂₅	Q ₁₂₆	Q ₁₂₇	Q ₁₂₈	Q ₁₂₉	Q ₁₃₀	Q ₁₃₁	Q ₁₃₂	Q ₁₃₃	Q ₁₃₄	Q ₁₃₅	Q ₁₃₆	Q ₁₃₇	Q ₁₃₈	Q ₁₃₉	Q ₁₄₀	Q ₁₄₁	Q ₁₄₂	Q ₁₄₃	Q ₁₄₄	Q ₁₄₅	Q ₁₄₆	Q ₁₄₇	Q ₁₄₈	Q ₁₄₉	Q ₁₅₀	Q ₁₅₁	Q ₁₅₂	Q ₁₅₃	Q ₁₅₄	Q ₁₅₅	Q ₁₅₆	Q ₁₅₇	Q ₁₅₈	Q ₁₅₉	Q ₁₆₀	Q ₁₆₁	Q ₁₆₂	Q ₁₆₃	Q ₁₆₄	Q ₁₆₅	Q ₁₆₆	Q ₁₆₇	Q ₁₆₈	Q ₁₆₉	Q ₁₇₀	Q ₁₇₁	Q ₁₇₂	Q ₁₇₃	Q ₁₇₄	Q ₁₇₅	Q ₁₇₆	Q ₁₇₇	Q ₁₇₈	Q ₁₇₉	Q ₁₈₀	Q ₁₈₁	Q ₁₈₂	Q ₁₈₃	Q ₁₈₄	Q ₁₈₅	Q ₁₈₆	Q ₁₈₇	Q ₁₈₈	Q ₁₈₉	Q ₁₉₀	Q ₁₉₁	Q ₁₉₂	Q ₁₉₃	Q ₁₉₄	Q ₁₉₅	Q ₁₉₆	Q ₁₉₇	Q ₁₉₈	Q ₁₉₉	Q ₂₀₀	Q ₂₀₁	Q ₂₀₂	Q ₂₀₃	Q ₂₀₄	Q ₂₀₅	Q ₂₀₆	Q ₂₀₇	Q ₂₀₈	Q ₂₀₉	Q ₂₁₀	Q ₂₁₁	Q ₂₁₂	Q ₂₁₃	Q ₂₁₄	Q ₂₁₅	Q ₂₁₆	Q ₂₁₇	Q ₂₁₈	Q ₂₁₉	Q ₂₂₀	Q ₂₂₁	Q ₂₂₂	Q ₂₂₃	Q ₂₂₄	Q ₂₂₅	Q ₂₂₆	Q ₂₂₇	Q ₂₂₈	Q ₂₂₉	Q ₂₃₀	Q ₂₃₁	Q ₂₃₂	Q ₂₃₃	Q ₂₃₄	Q ₂₃₅	Q ₂₃₆	Q ₂₃₇	Q ₂₃₈	Q ₂₃₉	Q ₂₄₀	Q ₂₄₁	Q ₂₄₂	Q ₂₄₃	Q ₂₄₄	Q ₂₄₅	Q ₂₄₆	Q ₂₄₇	Q ₂₄₈	Q ₂₄₉	Q ₂₅₀	Q ₂₅₁	Q ₂₅₂	Q ₂₅₃	Q ₂₅₄	Q ₂₅₅	Q ₂₅₆	Q ₂₅₇	Q ₂₅₈	Q ₂₅₉	Q ₂₆₀	Q ₂₆₁	Q ₂₆₂	Q ₂₆₃	Q ₂₆₄	Q ₂₆₅	Q ₂₆₆	Q ₂₆₇	Q ₂₆₈	Q ₂₆₉	Q ₂₇₀	Q ₂₇₁	Q ₂₇₂	Q ₂₇₃	Q ₂₇₄	Q ₂₇₅	Q ₂₇₆	Q ₂₇₇	Q ₂₇₈
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Tab not broken out for REC
(recording is possible)

Fig. 11

8. How to use the microprocessor check pin 18

Square waves with a fixed period are made available at this pin and the period changes in accordance with the operations.

A GO/NO GO evaluation of the microprocessor can be performed by observing these waveforms.

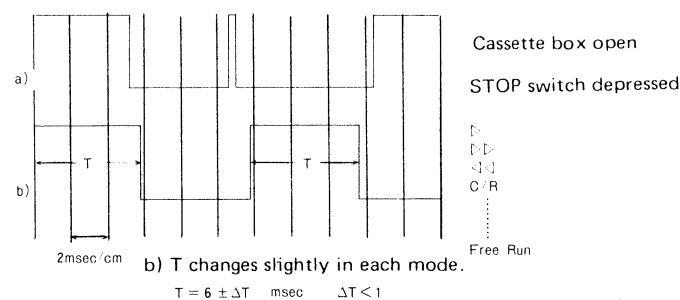


Fig. 16

2. Wireless remote control system

Outline

The contents of the key operation of the remote control unit (RC-100) are converted into a 6-bit transmission code, and pulses which are pulse-code-modulated by the 40kHz carrier are transmitted by the infrared light-emitting diode.

These pulses are received by the PIN diode sensor and the contents of the wireless signals are decoded by the builtin microprocessor.

The range over which these pulses can be transmitted in a straight line is about 8 meters, and the range with an allowable angle of $\pm 45^\circ$ is about 4 meters.

1. Transmitter

Block diagram

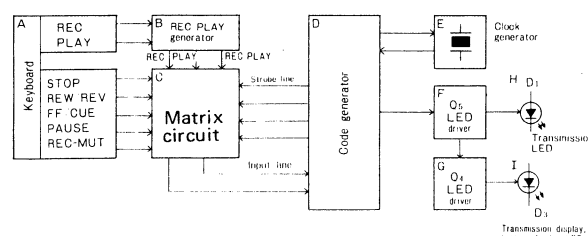


Fig. 17

A. Keyboard

Among the seven key switches, the REC and PLAY switches are double keys which set the unit to the recording mode. This means that their output is sent via the REC/PLAY generator to the matrix circuit and that the outputs of the other key switches are sent straight to the matrix circuit.

B. REC/PLAY generator

Along with the operation of the REC and PLAY keys, the generator generates REC, PLAY and REC/PLAY signals which are fed into the matrix circuit. This employs the TC-4028 decoder IC, B/C are used as inputs while A/D are grounded and set to the "L" level. During play only B goes to "H" while C/A/D go to "L" and output "2" goes to "H". During recording only C goes to "H" and "4" goes to "H". With the REC/PLAY (double key) B/C go to "H" and "6" goes to "H". By applying this output to the base of the matrix circuit transistor, the transistor's mode is switched.

C. Matrix circuit

The output signals of the eight keys generated under A and B are converted into a 4 x 2 matrix, and they are fed into the code generator from the strobe line and input line.

* Key scan strobe signal

In order to locate the contact point of the key matrix, $\phi B - \phi E$ are sent with the waveforms in the figure on the under by the sweep pulses applied at fixed time and intervals.

(Key scan strobe signal)

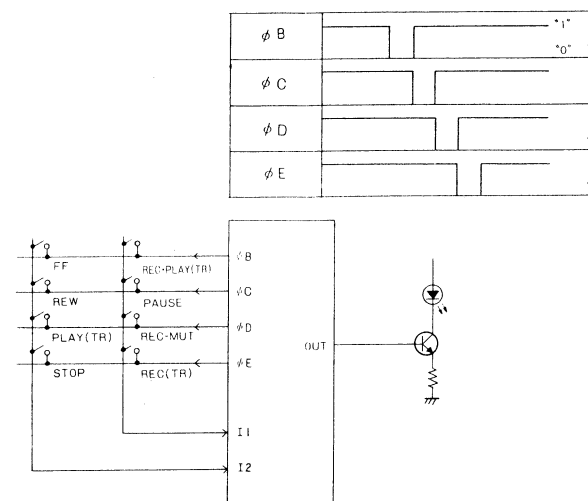


Fig. 18

* Key matrix figure

	$\bar{I}_1$	$\bar{I}_2$
ϕB	FF	REC • PLAY
ϕC	REW	PAUSE
ϕD	PLAY	REC • MUT
ϕE	STOP	REC

If I_1 is "0" when ϕB is "0", it means that the FF key is depressed.

D. Code generator

The data which is fed in from the matrix is converted into the designated pulse code modulation (PCM mode and it then enters the transmission LED driver. The figure below shows the relationship between the key and code.

Mode	D1	D2	D3	D4	D5	D6	Matrix
STOP	0	0	0	0	1	0	$\bar{I}_1 \cdot \phi E$
PLAY	1	0	0	0	1	0	$\bar{I}_1 \cdot \phi D$
REC	0	0	1	0	1	0	$\bar{I}_2 \cdot \phi E$
REW/REV	0	1	0	0	1	0	$\bar{I}_1 \cdot \phi C$
FF/CUE	1	1	0	0	1	0	$\bar{I}_1 \cdot \phi B$
REC • PLAY	1	1	1	0	1	0	$\bar{I}_2 \cdot \phi B$
PAUSE	0	1	1	0	1	0	$\bar{I}_2 \cdot \phi C$
REC • MUT	1	0	1	0	1	0	$\bar{I}_2 \cdot \phi D$

2. Receiver

Block diagram

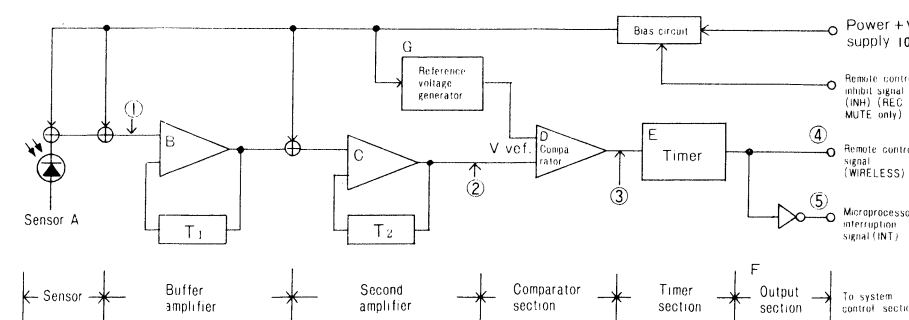


Fig. 20

The transmission signal carrier is 40kHz. A single pulse is made of 20 and its width is 500 μ sec. Differentiation between bit "0" and "1" is performed by period where $2T = "0"$ and $4T = "1"$. To use the FF as an example, the code is 110010 and so:

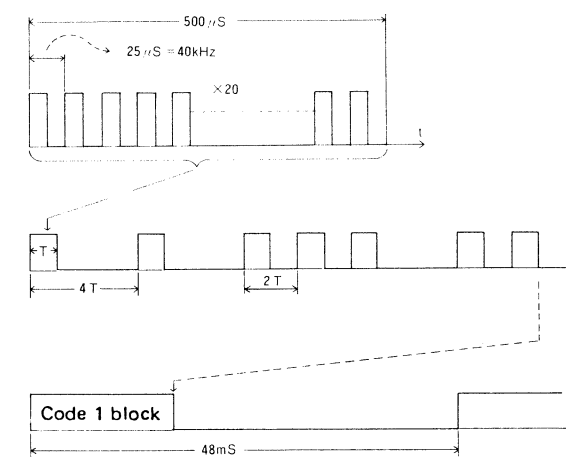


Fig. 19

One block of the transmission signal code is composed of six bits and a block is made up of seven pulses. Here the key has been entered and the pulses are transmitted by a 48 msec period.

E. Clock generator

This generates the reference sync signal (clock) that controls the code generator. The frequency of the signal is 455kHz.

F. Q5 LED driver

This drives the transmission LED.

G. Q6 LED driver

The output from the Q5 emitter is detected by D2 and C3, it is applied to the Q6 base, and the during transmission display and battery display LED is driven.

H. D1

This transmits the infrared light using pulse code modulation by means of the transmission LED.

I. D3

This is the LED for transmission display and battery display.

A. Sensor

The sensor uses a PIN diode and it transmits signals from the transmitter.

B. Buffer amplifier

This amplifier amplifies the signals from the sensor and it is configured as a bypass filter by T1 (time constant feedback circuit).

C. Second amplifier

This amplifies the signals from B to a level at which the comparator D can compare them with the designated Vref voltage (reference voltage). It is configured as a bypass filter by T2.

D. Comparator

This compares the signals from C with the Vref reference voltage, shapes them into ON or OFF signals and feeds out a trigger pulse for the timer start.

E. Timer

The remote control signals use the 40kHz pulse series (20 pulses and their intervals) as signals and so the 20 pulses are masked by the timer.

This makes it possible to set to the microprocessor processing speed when the microprocessor is decoding.

F. Output section

This handles the remote control signals and the reverse outputs, and it feeds out a remote control interruption signal.

G. Reference voltage generator

This generates the reference voltage that determines whether the voltage received has exceeded the Vref reference voltage.

[Waveforms at each section]

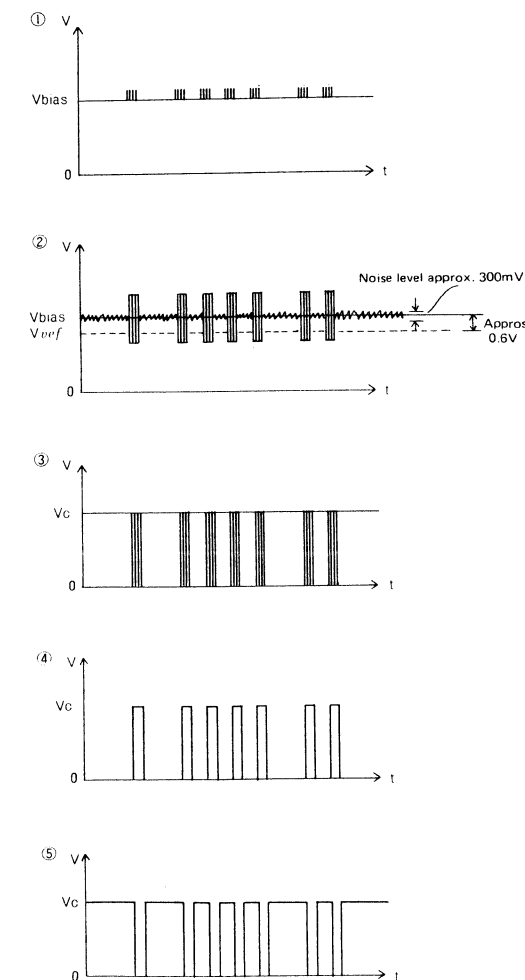


Fig. 21

(Key scan strobe signal)

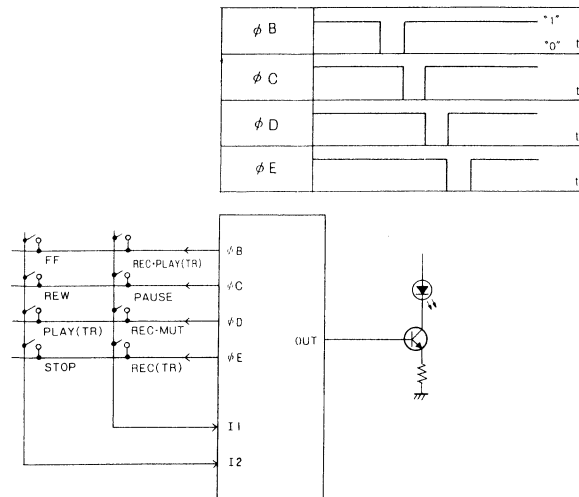


Fig. 18

* Key matrix figure

	I ₁	I ₂
ϕ_B	FF	REC·PLAY
ϕ_C	REW	PAUSE
ϕ_D	PLAY	REC·MUT
ϕ_E	STOP	REC

If I₁ is "0" when ϕ_B is "0", it means that the FF key is depressed.

D. Code generator

The data which is fed in from the matrix is converted into the designated pulse code modulation (PCM) mode and it then enters the transmission LED driver. The figure below shows the relationship between the key and code.

Mode	D ₁	D ₂	D ₃	D ₄	D ₅	D ₆	Matrix
STOP	0	0	0	0	1	0	$\bar{I}_1 \cdot \bar{\phi}_E$
PLAY	1	0	0	0	1	0	$\bar{I}_1 \cdot \bar{\phi}_D$
REC	0	0	1	0	1	0	$\bar{I}_2 \cdot \bar{\phi}_E$
REW/REV	0	1	0	0	1	0	$\bar{I}_1 \cdot \bar{\phi}_C$
FF/CUE	1	1	0	0	1	0	$\bar{I}_1 \cdot \bar{\phi}_B$
REC·PLAY	1	1	1	0	1	0	$\bar{I}_2 \cdot \bar{\phi}_B$
PAUSE	0	1	1	0	1	0	$\bar{I}_2 \cdot \bar{\phi}_C$
REC·MUT	1	0	1	0	1	0	$\bar{I}_2 \cdot \bar{\phi}_D$

2. Receiver

Block diagram

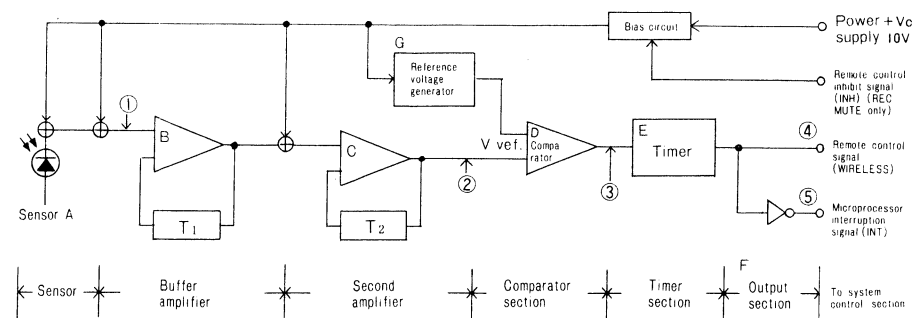


Fig. 20

The transmission signal carrier is 40kHz. A single pulse is made of 20 and its width is 500 μ sec. Differentiation between bit "0" and "1" is performed by period where 2T = "0" and 4T = "1". To use the FF as an example, the code is 110010 and so:

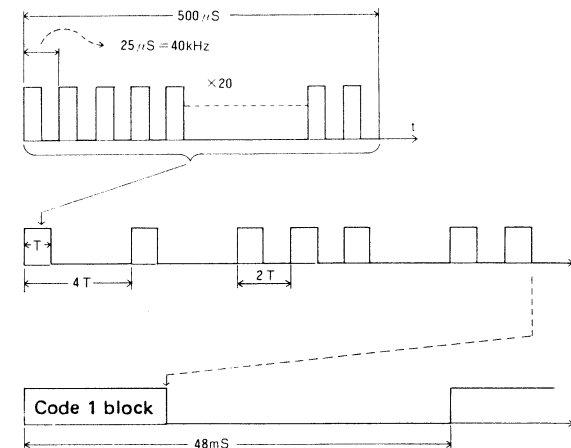


Fig. 19

One block of the transmission signal code is composed of six bits and a block is made up of seven pulses. Here the key has been entered and the pulses are transmitted by a 48 msec period.

E. Clock generator

This generates the reference sync signal (clock) that controls the code generator. The frequency of the signal is 455kHz.

F. Q5 LED driver

This drives the transmission LED.

G. Q6 LED driver

The output from the Q5 emitter is detected by D2 and C3, it is applied to the Q6 base, and the during transmission display and battery display LED is driven.

H. D1

This transmits the infrared light using pulse code modulation by means of the transmission LED.

I. D3

This is the LED for transmission display and battery display.

A. Sensor

The sensor uses a PIN diode and it transmits signals from the transmitter.

B. Buffer amplifier

This amplifier amplifies the signals from the sensor and it is configured as a bypass filter by T1 (time constant feedback circuit).

C. Second amplifier

This amplifies the signals from B to a level at which the comparator D can compare them with the designated Vref voltage (reference voltage). It is configured as a bypass filter by T2.

D. Comparator

This compares the signals from C with the Vref reference voltage, shapes them into ON or OFF signals and feeds out a trigger pulse for the timer start.

E. Timer

The remote control signals use the 40kHz pulse series (20 pulses and their intervals) as signals and so the 20 pulses are masked by the timer.

This makes it possible to set to the microprocessor processing speed when the microprocessor is decoding.

F. Output section

This handles the remote control signals and the reverse outputs, and it feeds out a remote control interruption signal.

G. Reference voltage generator

This generates the reference voltage that determines whether the voltage received has exceeded the Vref reference voltage.

[Waveforms at each section]

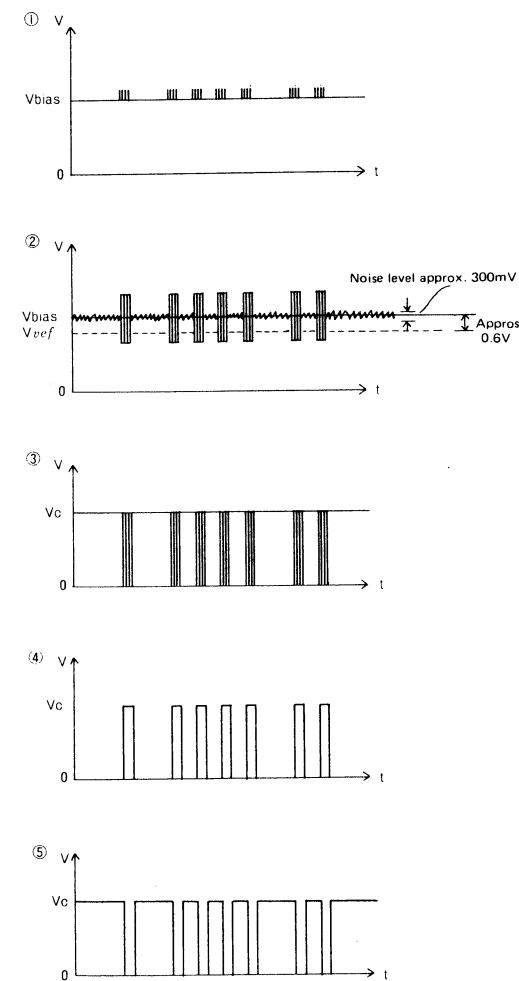


Fig. 21

The comparator output is normally fed out at +Vc but if an input signal with a voltage lower than the reference is supplied, an output such as that in Fig. ③ is fed out only during that interval.

The 40kHz pulses are masked by the timer and so the 20, 40kHz pulses are treated in the same way as for one pulse.

Output ④ is inverted by the Q1 inverter and this becomes the interruption signal of the microprocessor.

[Example of code decoding]

Pulse series	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇
Code							
D ₁	→						2T = 1
D ₂	→						T = 0
D ₃	→						T = 0
D ₄	→						T = 0
D ₅	→						2T = 1
D ₆	→						T = 0

"100010" indicates "PLAY"

Fig. 22

3. Relationship between wireless remote control and microprocessor

when the timer audio muting timer for the input timing is activated during the 3.6 seconds when the power is switched on in the AD-6700, the wireless interruption signal is not received. It is received at all other times.

* Wireless decoding

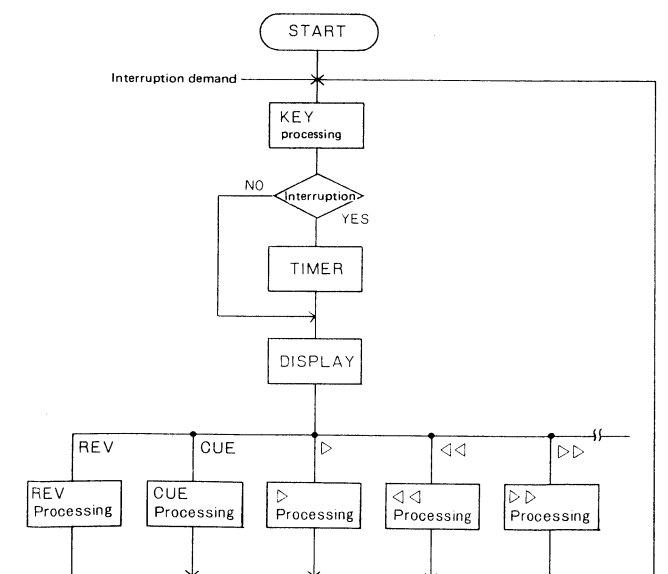
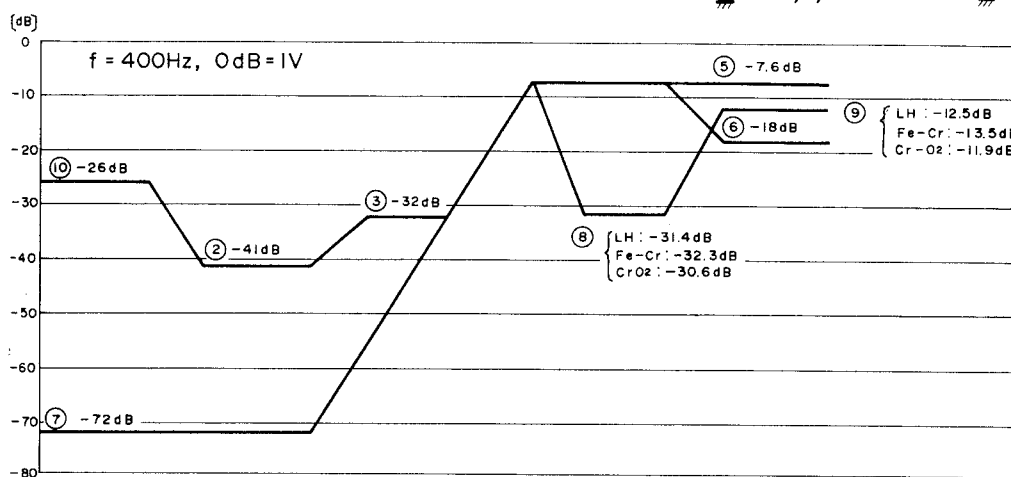
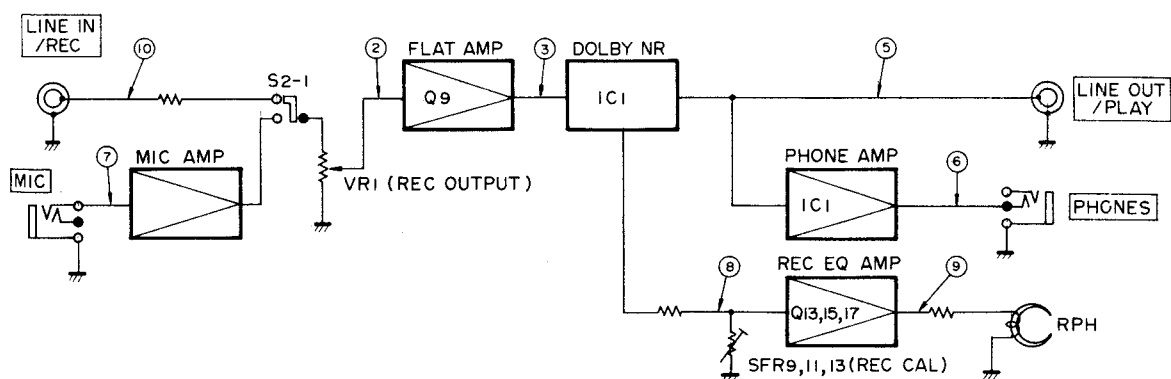


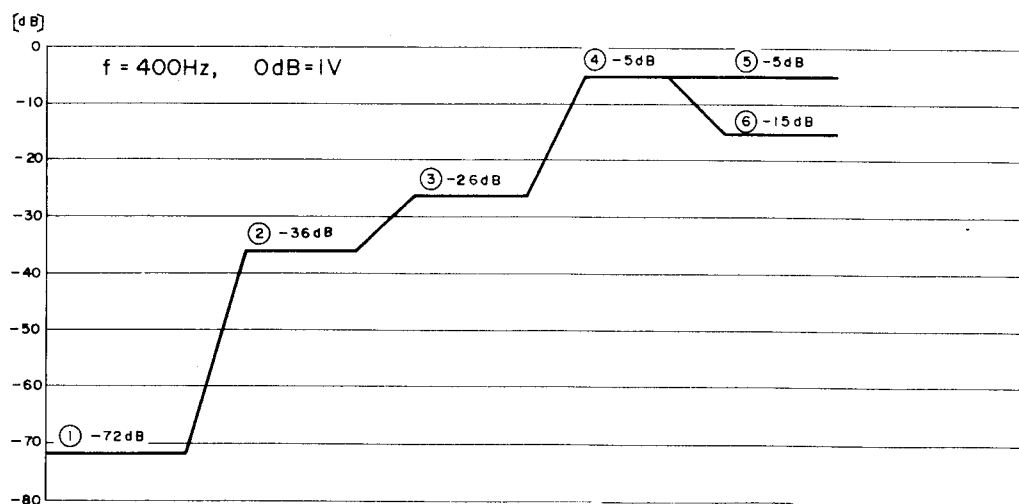
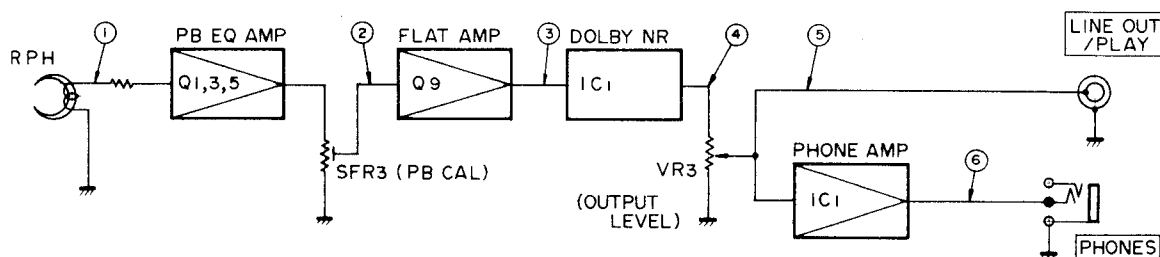
Fig. 23

LEVEL DIAGRAM

• RECORD



• PLAYBACK



ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1a	82-307-859-01		Printed indiv., Packing (H,E,K,G model only)	*	1	
1b	82-307-860-01		Printed indiv., Packing (C model only)	*	1	
1c	82-307-854-01		Printed indiv., Packing (U model only)	*	1	
2a	82-304-852-01		Cushion L, Printed indiv. (H,C,U,E,K model only)	AD-6900	1	
2b	82-304-852-11		Cushion L, Printed indiv. (G model only)	AD-6900	1	
3a	82-304-853-01		Cushion R, Printed indiv. (H,C,U,E,K model only)	AD-6900	1	
3b	82-304-853-11		Cushion R, Printed indiv. (G model only)	AD-6900	1	
4	87-051-135-11		Poly-vinyl sack (for AC power cord)		1	
5	87-056-564-01		Curl stopper		2	
6	87-056-607-01		Poly-vinyl sack (for case)		1	
7	82-307-858-01		Sub cushion, Rear	*	1	
8	82-304-080-01		Label, Timer caution	AD-6900	1	
9a	82-307-907-01		Instructions booklet (H model only)	*	1	
9b	82-307-908-01		Instructions booklet (C model only)	*	1	
9c	82-307-906-01		Instructions booklet (U model only)	*	1	
9d	82-307-909-01		Instructions booklet (E model only)	*	1	
9e	82-307-910-01		Instructions booklet (K model only)	*	1	
9f	82-307-911-01		Instructions booklet (G model only)	*	1	
10	87-051-175-01		Poly-tube A (for instruction)		1	
11	87-051-132-01		Poly-vinyl sack		1	
12	87-056-009-41		Distributors list (H,C,E,K,G model only)		1	
13	87-056-008-11		Label, AC power cord (K model only)		1	
14	87-056-016-01		Tag, Main voltage (K model only)		1	
15	87-056-013-01		Guarantee card (C model only)		1	
16	87-056-036-01		Guarantee card (U model only)		1	
17	87-056-032-01		Guarantee card (G model only)		1	
18	87-056-034-01		Service station list (U model only)		1	
19	87-056-035-01		Card, Limited warranty (U model only)		1	
20	87-051-155-01		Poly-vinyl sack (for guarantee card)		1	
21	86-121-100-01		Remote control unit RC-100		1	
22a	86-944-619-01		Connection cord, CW-129KS (H,C,U model only)		2	
22b	86-925-006-01		Connection cord, CW-115KS (E,K model only)		1	
22c	86-944-012-01		Connection cord, CW-129BSK		2	
23	87-047-063-01		Battery, SUM-3(AE)		3	
24	87-058-023-01		Cord binder		1	
25	87-058-024-01		Head cleaning pole ass'y		1	
26	87-032-845-01		Siemens plug (H model only)		1	

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