

AIWA® SERVICE MANUAL

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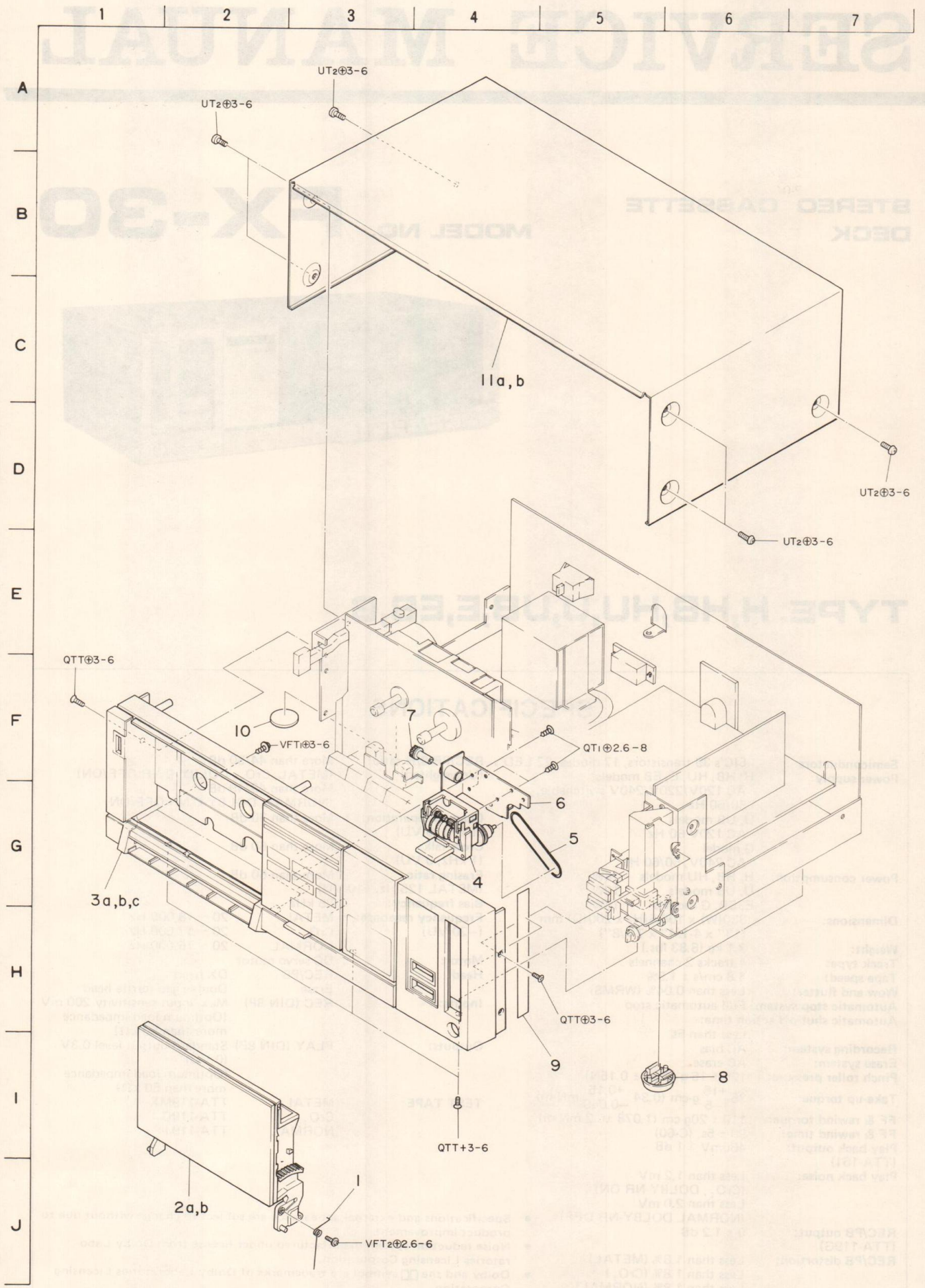
**STEREO CASSETTE
DECK****MODEL NO. FX-30****TYPE. H, HB, HU, U, UB, E, EB, G**

SPECIFICATIONS

Semiconductors:	5IC's 39 transistors, 17 diodes, 22 LED's	REC/PB S/N ratio:	More than 44/50 dB (METAL, CrO ₂ , DOLBY-C NR OFF/ON)
Power supply:	H, HB, HU, E, EB models AC 120V/220V/240V switchable, 50/60 Hz U, UB models AC 120V 60 Hz G model AC 240V, 50/60 Hz	(Unweighted)	More than 43/49 dB (NORMAL, DOLBY-C NR OFF/ON)
Power consumption:	H, HB, HU models 14W U, UB models 12W E, EB, G models 16W	Channel separation:	More than 30 dB
Dimensions:	330(W) x 106.5(H) x 200(D) mm (13" x 4-1/4" x 7-7/8")	(1 kHz, 0 VU)	
Weight:	3.1 kg (6.83 lbs.)	Cross talk:	More than 60 dB
Track type:	4 tracks 2 channels	(1 kHz, 0 VU)	
Tape speed:	4.8 cm/s ± 1.5%	Erasing ratio:	More than 60 dB
Wow and flutter:	Less than 0.04% (WRMS)	(METAL 125 Hz, +10 VU)	
Automatic stop system:	Full automatic stop	Bias frequency:	85 kHz
Automatic shut-off action time:	Less than 5s.	Frequency response:	METAL 20 ~ 18,000 Hz CrO ₂ 20 ~ 17,000 Hz NORMAL 20 ~ 16,000 Hz
Recording system:	AC bias	Motor:	DC servo motor
Erase system:	AC erase	Head:	REC/PB DX head Erase Double gap ferrite head
Pinch roller pressure:	125 ± 15 g (1.23 ± 0.15N)	Inputs:	REC (DIN 8P) Max. input sensitivity 200 mV (Optimum load impedance more than 50 kΩ)
Take-up torque:	35 ⁺¹⁵ -5 g-cm (0.34 ^{+0.15} -0.049 mN-m)	Outputs:	PLAY (DIN 8P) Standard output level 0.3V (0 VU) (Optimum load impedance more than 50 kΩ)
FF & rewind torque:	110 ± 20g-cm (1.078 ± 0.2 mN-m)	TEST TAPE:	METAL TTA-119MX CrO ₂ TTA-119G NORMAL TTA-119J
FF & rewind time:	90 ± 5s. (C-60)		
Play back output:	460mV ± 1 dB		
(TTA-161)			
Play back noise:	Less than 1.2 mV (CrO ₂ , DOLBY-NR ON) Less than 2.0 mV (NORMAL DOLBY-NR OFF)		
REC/PB output:	0 ± 1.2 dB		
(TTA-119G)			
REC/PB distortion:	Less than 1.8% (METAL) Less than 1.8% (CrO ₂) Less than 1.8% (NORMAL)		

- Specifications and external appearance are subject to change without due to product improvement.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- Dolby and the  symbol are trademarks of Dolby Laboratories Licensing Corporation.

EXPLODED VIEW-1



ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description
≪ MAIN CIRCUIT BOARD SECTION ≫		
PCB-A	*	Main circuit board
IC1	87-027-910-01	IC, μ PC1228H
Q1,2,3,4, 17,18	89-318-155-01	Transistor, 2SC1815 (GR)
Q5,6,7,8, 11,12,13, 14,15,16, 21,22,23, 25,26,27, 28,29,30, 33,35,36	89-318-154-01	Transistor, 2SC1815 (Y)
Q9,10,19,20	89-320-011-01	Transistor, 2SC2001 (K)
Q24,34,37, 38	89-110-154-01	Transistor, 2SA1015 (Y)
Q31	89-408-804-01	Transistor, 2SD880 (Y)
Q32	89-313-846-01	Transistor, 2SC1384 (R)
Q39	89-412-753-41	Transistor, 2SD1275
D1,2,3,4, 5,6,7,8, 9,11,12,17	87-027-097-01	Diode, 1S1555
D10	87-027-475-01	Zener diode, HZ-6B1
D13,14	87-027-393-01	Zener diode, HZ-4C2
D15	87-027-449-01	Zener diode, HZ15-3L
D16	87-027-376-01	Diode, 1B4B41
L1,2	82-192-616-01	Trap coil, 85k
L3,4	87-005-093-01	Micro inductor coil, 4.7mH
L5,6	87-003-051-01	Choke coil, 470 μ H
L7	82-192-615-01	OSC coil, 85k
J1	87-049-291-01	DIN jack, 8P
S101~106	82-192-610-01	(REC/PLAY/PLAYER SYNC)
S201,202, 301,302	82-192-611-01	Slide switch (REC/PB) Push switch (DOLBY-NR, B/C)
 F1	87-035-221-01	Fuse, "T" 800mA
	87-033-147-01	Fuse clamp
	82-499-677-31	Heatsink
SFR1,2	87-021-735-01	Semi-fixed resistor, 220 Ω -B
SFR3,4	87-021-745-01	Semi-fixed resistor, 47k Ω -B
SFR5,6	87-021-747-01	Semi-fixed resistor, 220k Ω -B
SFR7,8	87-021-743-01	Semi-fixed resistor, 22k Ω -B
	87-033-144-01	Pin, 1P
PIN1	87-049-146-01	Pin, 6P
PIN2	87-049-247-01	Pin, 2P
PIN3	87-049-148-01	Pin, 8P
PIN4	87-049-277-01	Pin, 7P
PIN5	87-049-278-01	Pin, 8P
PIN6	87-049-274-01	Pin, 4P
		< Resistor >
 R322,401	87-029-007-01	22 Ω $\frac{1}{4}$ W Fuse resistor
		< Capacitors >
C101,102	87-015-241-01	1 μ F 50V Electrolytic LL
C201,202	87-015-427-01	0.15 μ F 25V Aluminum solid
C403	87-014-128-01	1500pF 630V PP
≪ DOLBY-NR CIRCUIT BOARD SECTION ≫		
	87-027-905-01	Dolby-NR Unit, 2H (W/PCB-B)
IC1,2	87-027-862-01	IC, HA12038
L1,2	87-005-155-01	Coil, 36mH
PIN	87-049-117-01	Pin, 7P
PIN	87-049-119-01	Pin, 9P

Symbol No.	Part No.	Description
		< Resistors >
R9,10	87-025-271-01	5.1kΩ ¼W Metal film
R11,12	87-025-295-01	15kΩ ¼W Metal film
R35,36	87-025-296-01	56kΩ ¼W Metal film
		< Capacitors >
C15,16	87-015-617-01	10μF 16V Electrolytic LL
C21,22,23, 24,45,56	87-015-366-01	0.15μF 10V Aluminum solid
≪ INDICATOR CIRCUIT BOARD SECTION ≫		
PCB-C	82-192-628-01	Indicator Circuit board
IC1,2	87-027-879-01	IC, AN6882
D1,2,3,4, 5,6	87-027-653-01	LED, LN03202P (PEAK PROGRAM METER)
D7,8,9,10, 11,12,13, 14,15,16	87-020-011-01	LED, LN05302P (PEAK PROGRAM METER)
D17,19,22	87-020-008-01	LED, LN216RP (C-TYPE, RECORD, METAL)
D18,20	87-020-009-01	LED, LN316GP (NORMAL, B-TYPE)
D21	87-020-010-01	LED, LN416YP (CrO ₂)
≪ VOLUME-1 CIRCUIT BOARD SECTION ≫		
PCB-D	*	Volume-1 circuit board
VR301	82-192-612-01	Slide volume, 5kΩ-A (REC VOLUME)
≪ SWITCH CIRCUIT BOARD SECTION ≫		
PCB-E	*	Switch circuit board
S902	82-186-623-01	Push-switch (POWER)
≪ VOLUME-2 CIRCUIT BOARD SECTION ≫		
PCB-F	*	Volume-2 circuit board
VR401	82-192-613-01	Volume, 20kΩ-B (BIAS FINE)
≪ OUTLET CIRCUIT BOARD SECTION ≫ = "E, EB" mod		
 PCB-G	*	Outlet circuit board
 J2	87-049-014-01	AC outlet
 F2	87-035-222-01	Fuse, "T" 1A
	87-033-147-01	Fuse clamp
	82-304-743-01	1P terminal
≪ MISCELLANEOUS ≫		
 T1	82-192-602-01	Power transformer (H,HB,HU models only)
 T1	82-192-603-01	Power transformer (U,UB models only)
 T1	82-192-604-01	Power transformer (E,EB,G models only)
RPH	87-046-200-01	REC/PB head
EH	87-046-196-01	Erase head
M1	87-045-135-01	DC EG motor
S401,501	87-031-361-01	Leaf switch (LH/OTHER, CrO ₂ /MT)
S601	87-031-548-01	Leaf switch (MOTOR)
S701,801	87-031-615-01	Leaf switch (MUTING, F/R)
S901	87-031-491-01	Micro switch (BIAS)

Symbol No.	Part No.	Description
 S903	87-031-539-01	Slide switch (VOLTAGE SELECTOR) (H,HB,HU,E,EB models only)
	87-034-962-01	AC power cord (H,HB,HU models only)
	87-034-935-01	AC power cord (U,UB models only)
	82-788-674-01	AC power cord (E,EB models only)
	87-034-892-01	AC power cord (G model only)
 J2	87-049-017-01	AC outlet (H, HB, HU, U, UB models only)
 J2	87-032-996-01	AC outlet (G model only)
	87-085-184-01	AC power cord bushing D (H,HB,HU,U,UB models only)
	87-085-185-01	AC power cord bushing (E,EB,G models only)
CON1	82-192-632-01	Connector ass'y, 6P
CON3	82-192-633-01	Connector ass'y, 8P
CON4	82-192-631-01	Connector ass'y, 7P
CON5	82-192-634-01	Connector ass'y, 8P
CON6	82-192-630-01	Connector ass'y, 4P



 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.

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 82-192-620-11
(H, HB, HU, E, EB, G, models)

PCB-A	82-192-619-11
PCB-D	82-192-621-11
PCB-E	82-192-622-11
PCB-F	82-192-623-11
PCB-G	82-192-624-11 (E, EB models)

Combination circuit board 82-192-650-01
(U, UB, models)

PCB-A	82-192-651-01
PCB-D	82-192-652-01
PCB-E	82-192-653-01
PCB-F	82-192-654-01
PCB-G	82-192-655-01

- Ceramic capacitor

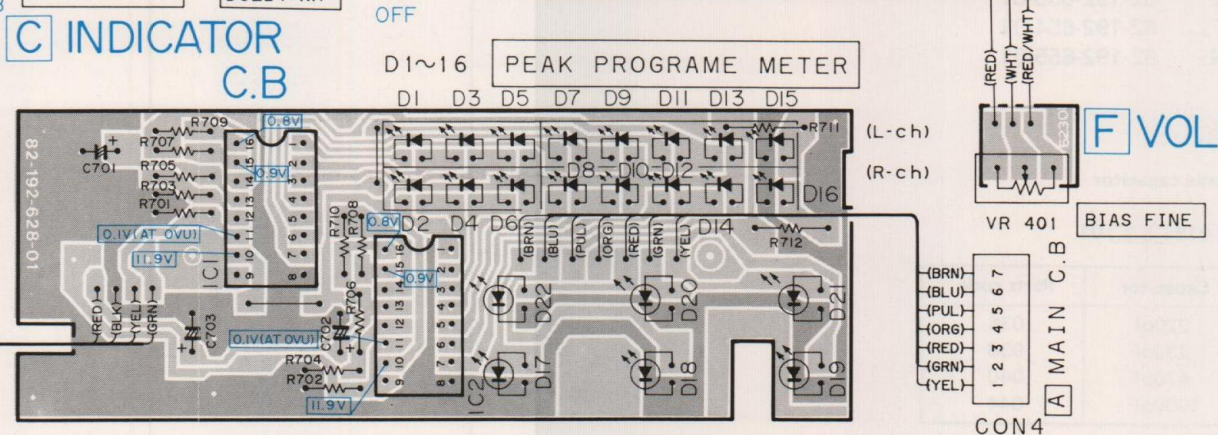
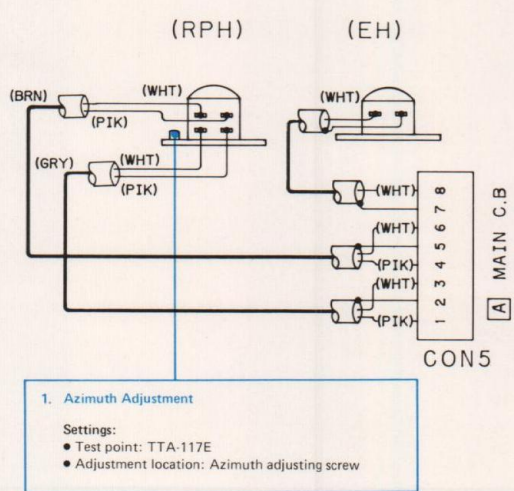
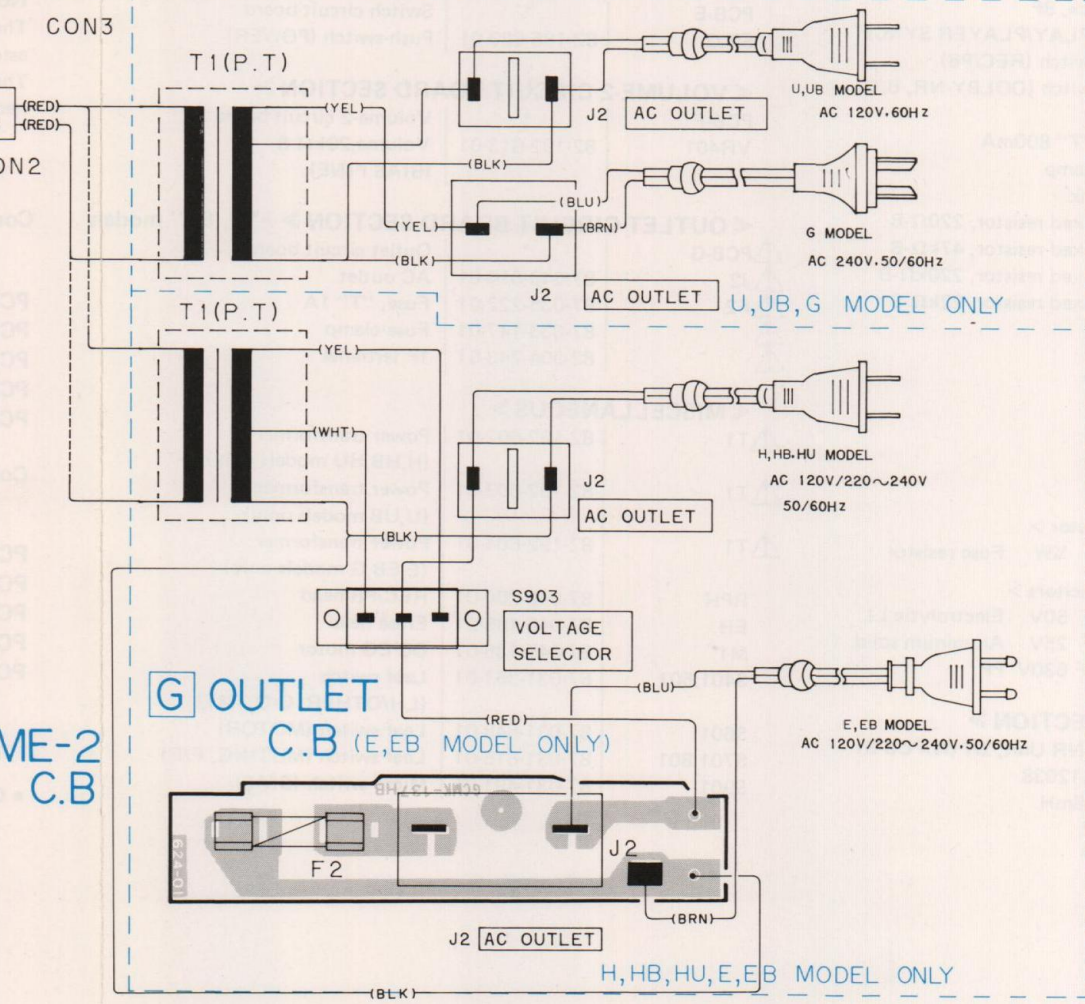
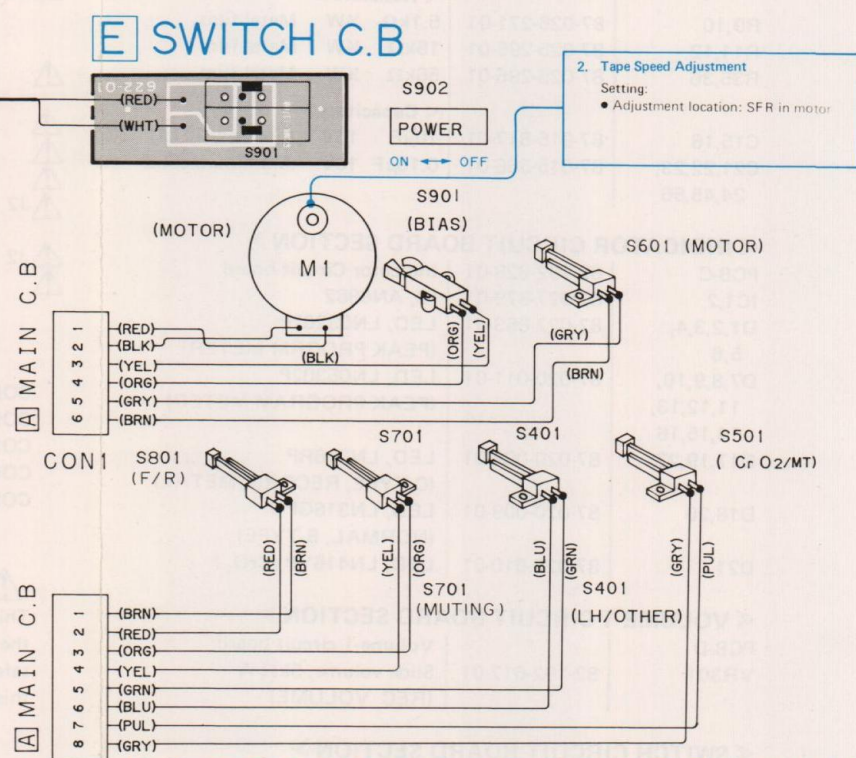
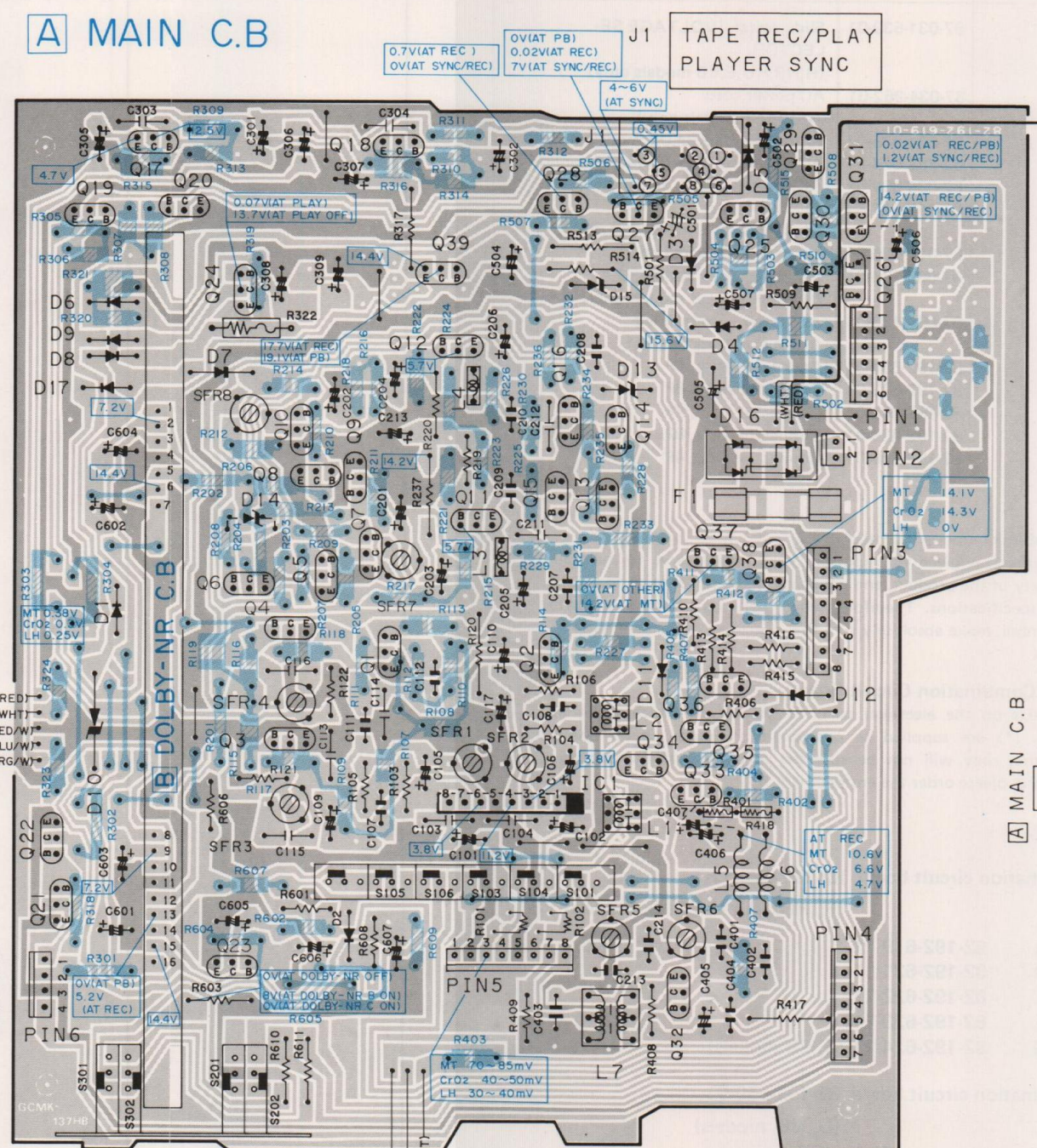
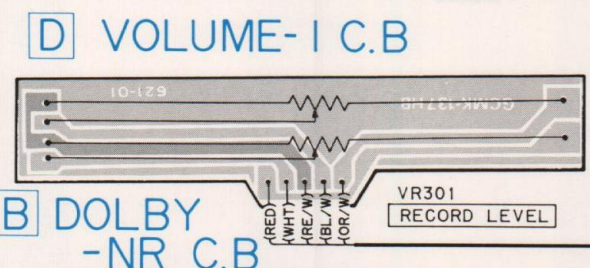
Capacitor	Parts code
220pF	036
330pF	038
470pF	040
1000pF	044

☆☆☆☆☆ MEMO ☆☆☆☆☆

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.
An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

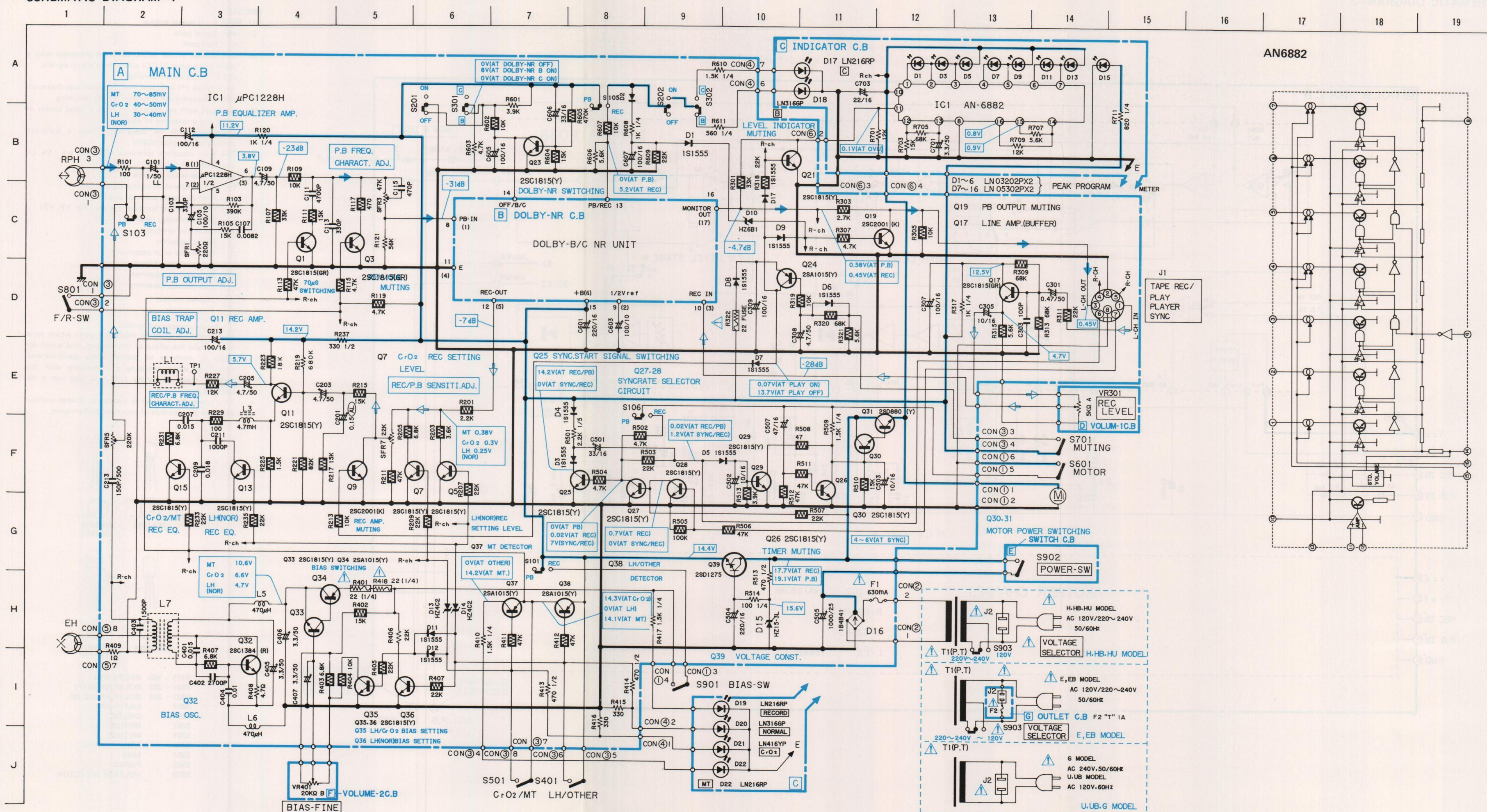
WIRING

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----

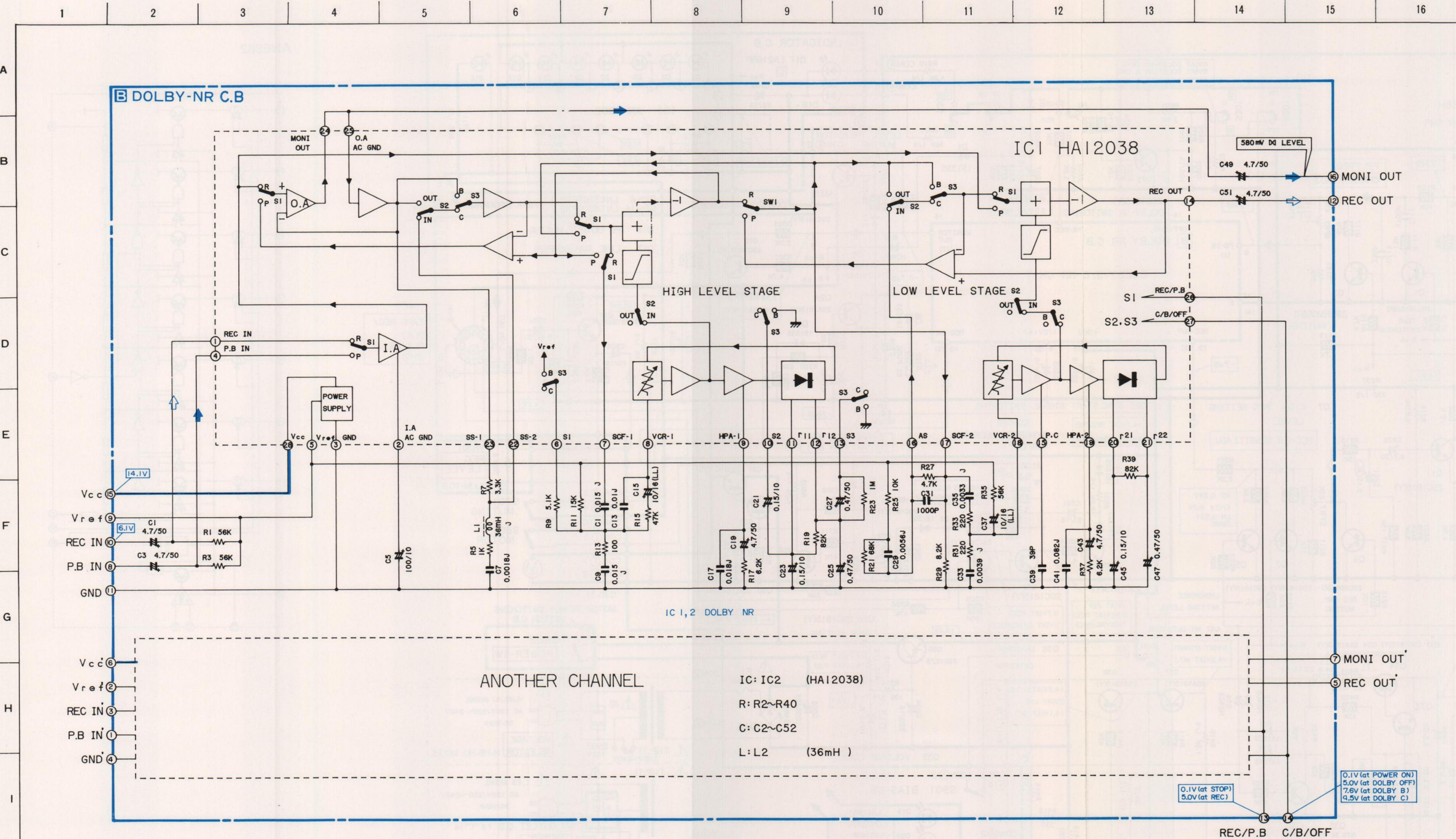


D22	METAL	D20	NORMAL	D21	CrO2
D17	C-TYPE	D18	B-TYPE	D19	RECORD

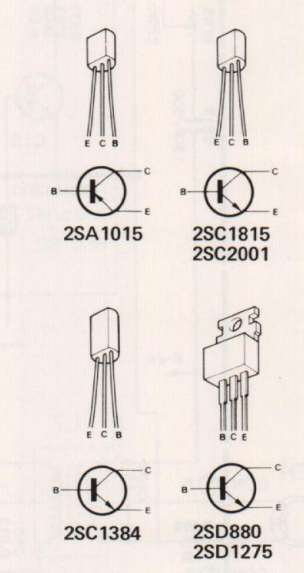
SCHEMATIC DIAGRAM-1



SCHEMATIC DIAGRAM-2

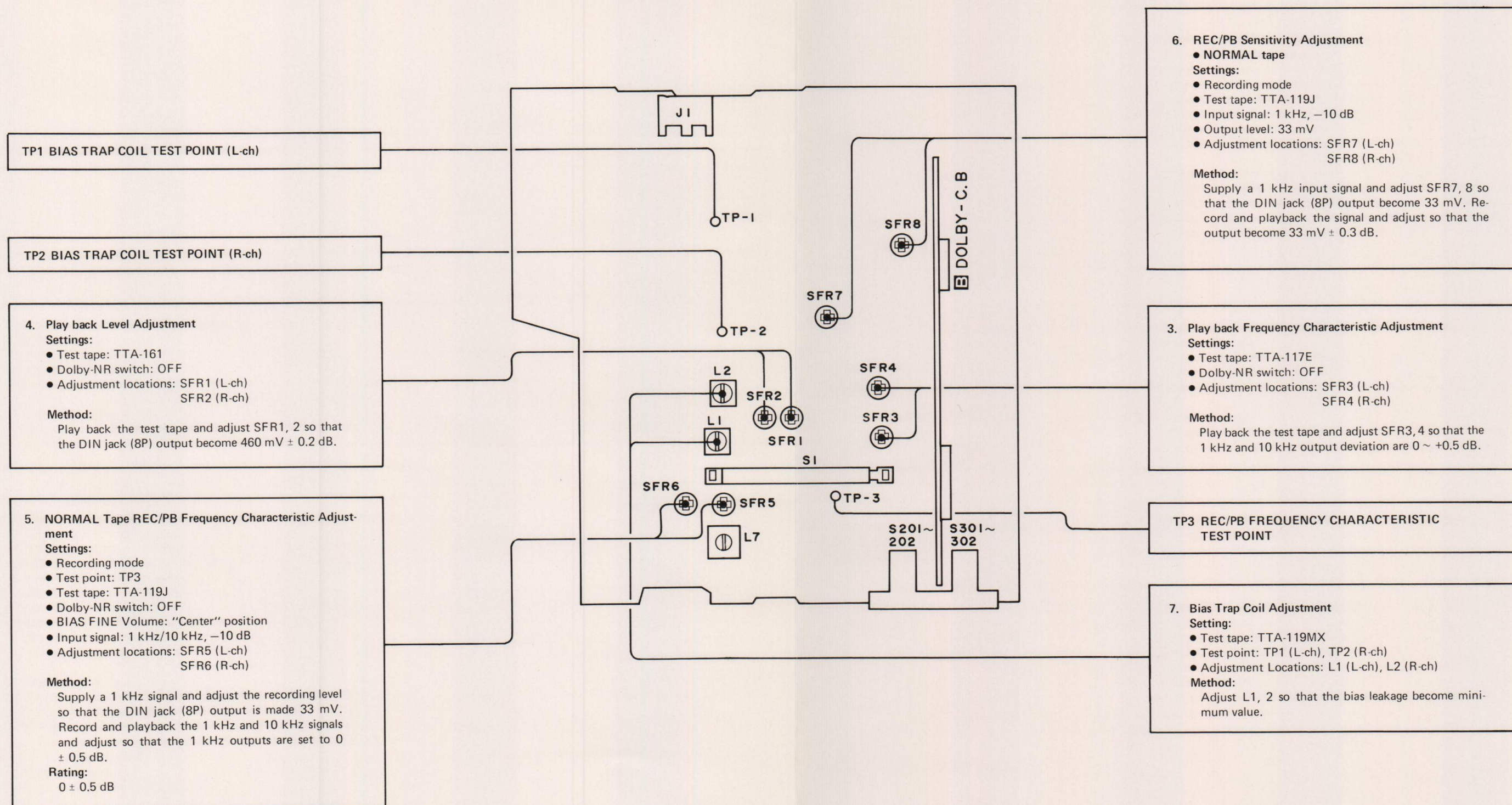


- NOTES:
- 1) B (+) power supply
 - 2) Signal path
 - 3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But () is with recording. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
 - 4) Resistors with no designation have a rated power of 1/8W and a tolerance of $\pm 5\%$.
 - 5) Capacitors with no designation have a dielectric strength of less than 50WV.
 - 6) The only capacitor tolerance indicated are $\pm 5\%$ (J) and $\pm 10\%$ (K).
 - 7) Ceramic capacitor symbols:
 - For temperature compensation (SL)
 - High dielectric constant system (YY)
 - High dielectric constant system (YW, YP, YZ)
 - Semiconductor ceramic
 - 8) Explanation of symbols
 - Mylar capacitor
 - Aluminum solid capacitor
 - Polypropylene film capacitor
 - Bi-polarized capacitor
 - Low-leakage capacitor
 - Printed resistor
 - Fuse resistor
- ⚠ 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.



- S101 ~ 105 REC/PB (PB)
S201 ~ 202 DOLBY-NR (OFF)
S301 ~ 302 DOLBY-NR B/C (B)
S401 LH/OTHER
S501 CrO₂/MT
S601 MOTOR
S701 MUTING
S801 F/R
S901 BIAS
S902 POWER
S903 VOLTAGE SELECTOR

Adjustment



PARTS LIST

MECHANICAL PARTS

■ * mark in this part list shows exclusive part
(S) = SILVER (B) = BLACK (C. G.) = CHAMPAGNE GOLD

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-1	82-192-212-01		T-spring Cassette box	*	1
1-2a	82-192-017-01		Cassette box ass'y [(S) H, HU, U, G (C. G.)E models only]	*	1
b	82-192-053-01		Cassette box ass'y B [(B) H, U, E models only]	*	1
1-3a	82-192-008-31		Front Cabinet ass'y [(S) H, HU, U, G models only]	*	1
b	82-192-058-11		Front Cabinet ass'y [(C. G.) E model only]	*	1
c	82-192-041-01		Front Cabinet ass'y B [(B) H, U, E models only]	*	1
1-4	87-040-165-01		Counter		1
1-5	82-429-228-01		Belt, Counter		1
1-6	82-192-208-01		Holder, Counter ass'y	*	1
1-7	82-534-264-01		Gear, Oil damp		1
1-8	87-085-186-01		Foot		3
1-9	82-192-223-01		Sheet	*	1
1-10	82-192-018-01		Foot	*	1
1-11a	82-189-003-01		Steel Cabinet [(S) H, HU, U, G (C. G.)E models only]	FX-70	1
b	82-192-077-01		Steel Cabinet B [(B) H, U, E models only]	*	1

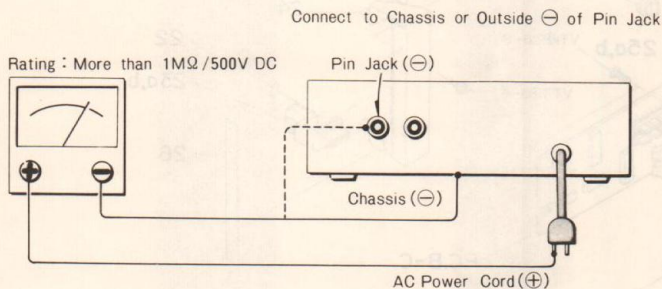
Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of service.

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 $1M\Omega$.

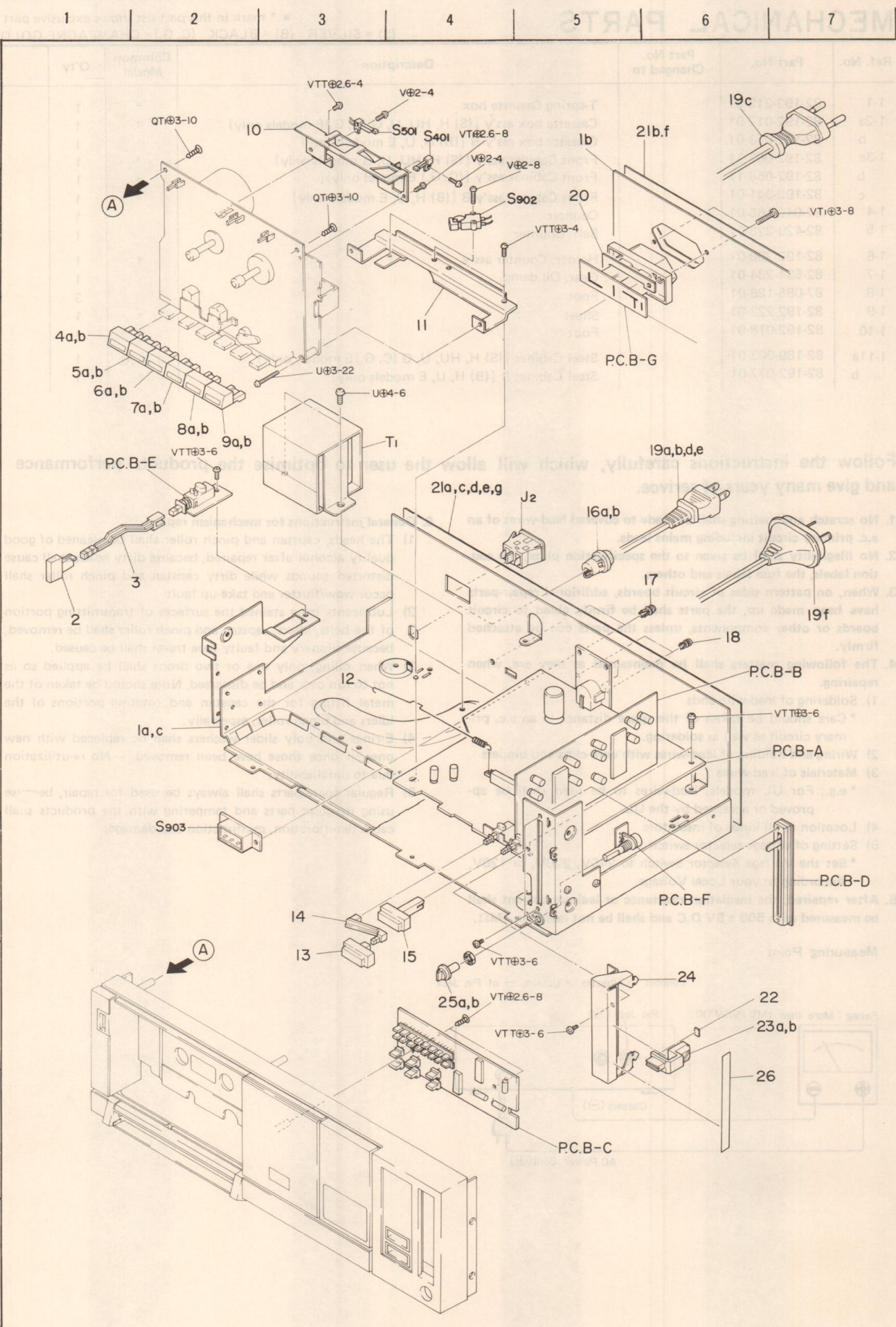
6. General instructions for mechanism repair

- 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.

Measuring Point

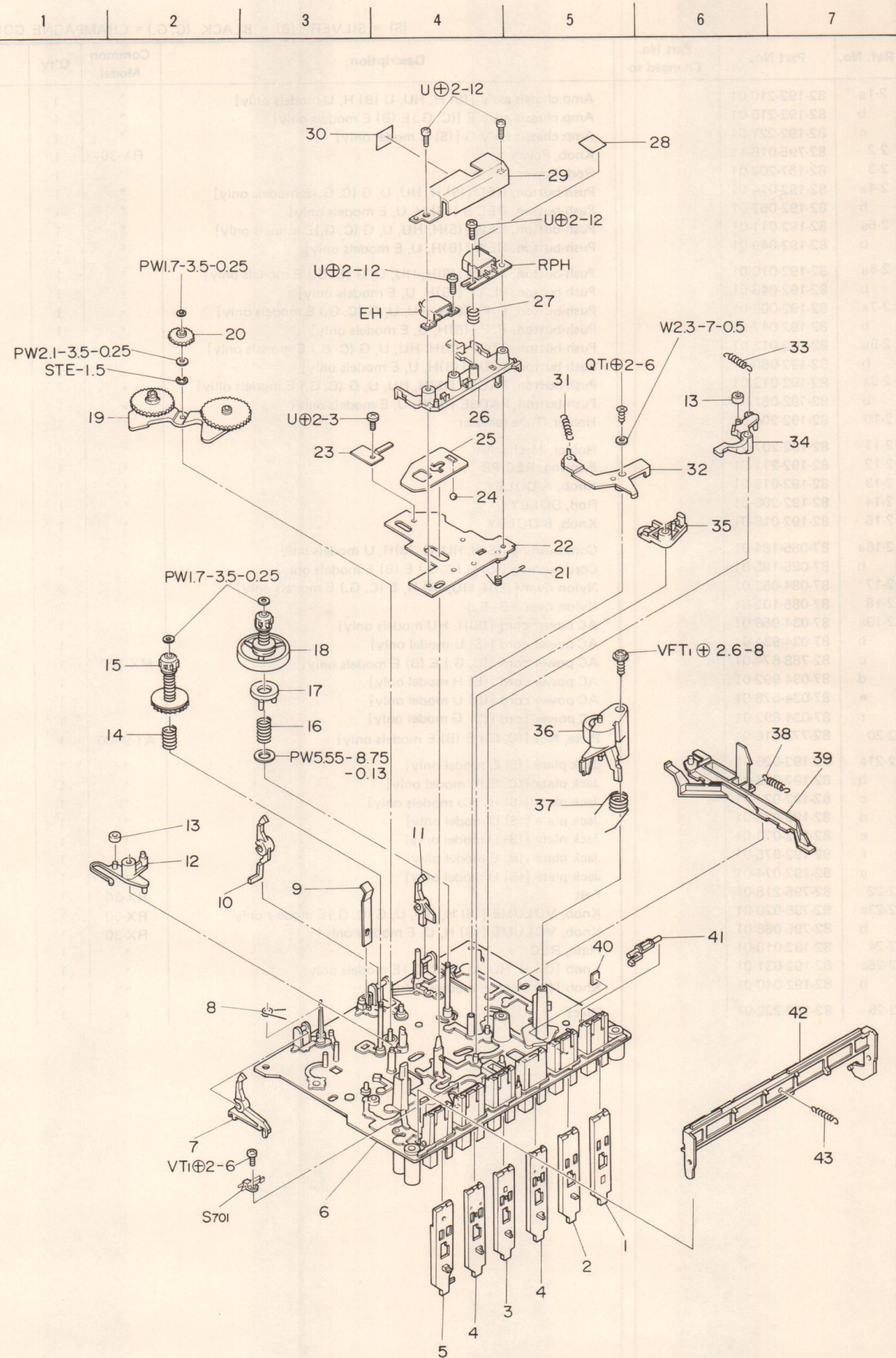


EXPLODED VIEW-2



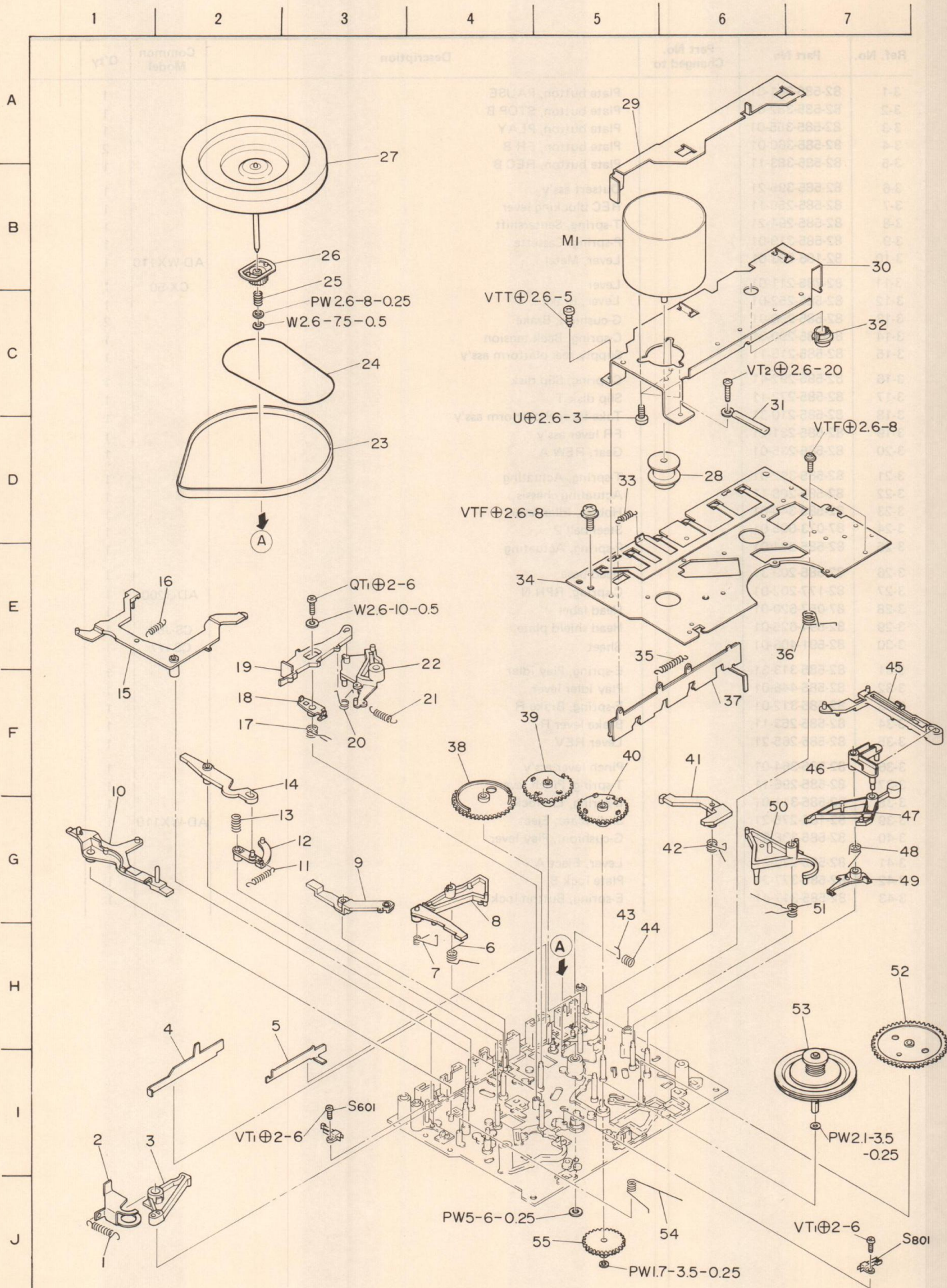
(S) = SILVER (B) = BLACK (C. G.) = CHAMPAGNE GOLD

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1a	82-192-210-01		Amp.chassis ass'y [(S) H, HU, U (B) H, U models only]	*	1
b	82-192-216-01		Amp.chassis ass'y E [(C. G.) E (B) E models only]	*	1
c	82-192-221-01		Amp.chassis ass'y G [(S) G model only]	*	1
2-2	82-795-018-11		Knob, Power	RX-30	1
2-3	82-157-208-01		Rod, Power	*	1
2-4a	82-192-014-01		Push-button, REC [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-052-01		Push-button, REC B [(B) H, U, E models only]	*	1
2-5a	82-192-011-01		Push-button, REW [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-049-01		Push-button, REW [(B) H, U, E models only]	*	1
2-6a	82-192-010-01		Push-button, PLAY [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-048-01		Push-button, PLAY [(B) H, U, E models only]	*	1
2-7a	82-192-009-01		Push-button, F. F [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-047-01		Push-button, F. F [(B) H, U, E models only]	*	1
2-8a	82-192-012-01		Push-button, STOP [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-050-01		Push-button, STOP [(B) H, U, E models only]	*	1
2-9a	82-192-013-01		Push-button, PAUSE [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-051-01		Push-button, PAUSE [(B) H, U, E models only]	*	1
2-10	82-192-204-01		Holder, Tape selector	*	1
2-11	82-192-207-01		Holder, Mechanism	*	1
2-12	82-192-211-01		E-spring, REC/PB	*	1
2-13	82-192-015-01		Knob, A DOLBY	*	1
2-14	82-192-206-01		Rod, DOLBY	*	1
2-15	82-192-016-01		Knob, B DOLBY	*	1
2-16a	87-085-184-01		Cord bushing [(S) H, HU, U (B) H, U models only]		1
b	87-085-185-01		Cord bushing [(S) G (C. G.) E (B) E models only]		1
2-17	87-084-063-01		Nylon rivet [(S) H, HU, (B) H, E (C. G.) E models only]		2
2-18	87-085-102-01		Nylon rivet 3.5-5.5		2
2-19a	87-034-956-01		AC power cord [(S) H, HU models only]		1
b	87-034-934-01		AC power cord [(S) U model only]		1
c	82-788-674-01		AC power cord [(C. G.) E (B) E models only]	MX-100	1
d	87-034-992-01		AC power cord [(B) H model only]		1
e	87-034-578-01		AC power cord [(B) U model only]		1
f	87-034-892-01		AC power cord [(S) G model only]		1
2-20	82-773-216-01		Plate, Nut [(C. G.) E (B) E models only]	AT-9500	1
2-21a	82-192-026-01		Jack plate [(S) G model only]	*	1
b	82-192-023-01		Jack plate [(C. G.) E model only]	*	1
c	82-192-022-01		Jack plate [(S) H, HU models only]	*	1
d	82-192-030-01		Jack plate [(S) U model only]	*	1
e	82-192-073-01		Jack plate [(B) H model only]	*	1
f	82-192-075-01		Jack plate [(B) E model only]	*	1
g	82-192-074-01		Jack plate [(B) U model only]	*	1
2-22	82-795-218-01		Felt	RX-30	1
2-23a	82-795-020-01		Knob, VOLUME [(S) H, HU, U, G (C. G.) E models only]	RX-30	1
b	82-795-068-01		Knob, VOLUME [(B) H, U, E models only]	RX-30	1
2-24	82-192-018-01		Plate, REC	*	1
2-25a	82-192-031-01		Knob [(S) H, HU, U, G (C. G.) E models only]	*	1
b	82-192-040-01		Knob [(B) H, U, E models only]	*	1
2-26	82-192-222-01		Sheet	*	1



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-585-361-01		Plate button, PAUSE		1
3-2	82-585-382-01		Plate button, STOP B		1
3-3	82-585-355-01		Plate button, PLAY		1
3-4	82-585-360-01		Plate button, FR B		2
3-5	82-585-383-11		Plate button, REC B		1
3-6	82-585-395-21		Outsert ass'y		1
3-7	82-585-255-11		REC blocking lever		1
3-8	82-585-294-21		T-spring, Sentershift		1
3-9	82-585-319-01		P-spring, Cassette		1
3-10	82-186-203-01		Lever, Metal	AD-WX110	1
3-11	82-785-211-01		Lever	CX-50	1
3-12	82-585-252-01		Lever, Brake L		1
3-13	82-585-286-01		G-cushion, Brake		2
3-14	82-585-290-01		C-spring, Back tension		1
3-15	82-585-215-11		Supply reel platform ass'y		1
3-16	82-585-292-41		C-spring, Slip disk		1
3-17	82-585-272-11		Slip disk T		1
3-18	82-585-210-31		Take-up reel platform ass'y		1
3-19	82-585-231-21		FR lever ass'y		1
3-20	82-585-235-01		Gear, REW A		1
3-21	82-585-392-01		T-spring, Actuating		1
3-22	82-585-208-11		Actuating chassis		1
3-23	82-585-349-01		Holder, Idler lever		1
3-24	87-073-005-01		Steel ball 2		1
3-25	82-585-284-01		P-spring, Actuating		1
3-26	82-585-209-31		Head base		1
3-27	82-177-202-01		C-spring, RPH N	AD-3200	1
3-28	87-057-620-01		Head label		1
3-29	82-594-625-01		Head shield plate	CS-J50	1
3-30	82-591-406-01		Sheet	CS-W7	1
3-31	82-585-313-31		E-spring, Play idler		1
3-32	82-585-446-01		Play idler lever		1
3-33	82-585-312-01		E-spring, Brake R		1
3-34	82-585-253-11		Brake lever R		1
3-35	82-585-265-21		Lever REV		1
3-36	82-585-364-01		Pinch lever ass'y		1
3-37	82-585-296-11		T-spring, Pinch lever		1
3-38	82-585-311-01		E-spring, Lid lock		1
3-39	82-186-275-21		Slide plate, Eject	AD-WX110	1
3-40	82-585-338-01		G-cushion, Play lever		1
3-41	82-585-279-21		Lever, Eject A		1
3-42	82-585-377-21		Plate lock B		1
3-43	82-585-317-41		E-spring, Button lock		1

EXPLODED VIEW-4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	82-585-384-01		E-spring, REC B		1
4-2	82-585-267-01		Lever, REC B		1
4-3	82-585-413-01		Lever, REC C		1
4-4	82-585-282-11		Slide plate, Motor switch		1
4-5	82-585-283-01		Slide plate, FR auto		1
4-6	82-585-306-11		T-spring, Play lever		1
4-7	82-585-307-01		T-spring, REC lever		1
4-8	82-585-428-01		Lever, PLAY B ass'y		1
4-9	82-585-258-11		Trigger lever, Play		1
4-10	82-585-387-11		Trigger lever, REC B		1
4-11	82-585-308-21		E-spring, REW lever		1
4-12	82-585-260-31		Lever, REW		1
4-13	82-439-369-11		Slip spring	TPR-300	1
4-14	82-585-259-11		Trigger lever, REW		1
4-15	82-585-257-21		Trigger lever, FF		1
4-16	82-585-301-01		E-spring, Trigger PLAY		1
4-17	82-585-297-01		T-spring, FR lever A		1
4-18	82-585-403-01		FR lever G		1
4-19	82-585-386-01		FR lever F		1
4-20	82-585-298-01		T-spring, FR lever B		1
4-21	82-585-311-01		E-spring, Lid lock		1
4-22	82-585-385-01		FR lever E		1
4-23	82-176-207-01		Main belt FW B	AD-3100	1
4-24	82-585-336-01		Rubber belt FR B		1
4-25	82-176-208-01		C-spring, Flywheel	AD-3100	1
4-26	82-585-243-01		Gear, Flywheel		1
4-27	82-585-229-21		Flywheel ass'y		1
4-28	82-585-242-11		Motor pulley		1
4-29	82-175-220-21		Slide plate ADMS	AD-3500	1
4-30	82-585-281-31		Holder, Motor		1
4-31	87-038-039-01		Wire binder		1
4-32	82-585-326-11		Thrust bearing B		1
4-33	82-585-332-01		E-spring, REC lock		1
4-34	82-585-442-01		Mechanism chassis C ass'y		1
4-35	82-175-289-01		E-spring, Slide plate	AD-3500	1
4-36	82-585-321-41		T-spring, Auto kick		1
4-37	82-585-327-11		Slide plate key ass'y		1
4-38	82-585-244-01		Gear, Play cam		1
4-39	82-585-246-01		Gear, Pause cam		1
4-40	82-585-245-21		Gear, FR cam		1
4-41	82-585-256-31		Trigger lever PAUSE		1
4-42	82-585-304-21		T-spring, Trigger pause		1
4-43	82-585-362-01		Shaft lock B		1
4-44	82-585-285-11		C-spring lock		1
4-45	82-585-270-51		Plate auto kick ass'y		1
4-46	82-585-269-01		Auto lever B		1
4-47	82-585-268-01		Auto lever A		1
4-48	82-585-299-01		T-spring, Auto eject		1
4-49	82-585-271-01		Auto eject lever		1
4-50	82-585-431-01		Lever, PAUSE B		1
4-51	82-585-300-11		T-spring, FR cam		1
4-52	82-585-247-11		Gear, Auto kick		1
4-53	82-585-217-41		Slip pulley FR ass'y		1
4-54	82-585-303-21		T-spring, Trigger REC		1
4-55	82-585-216-11		Gear, Drive		1

ACCESSORIES/PACKAGE LIST

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-192-853-01		Printed indiv., Packing	*	1
2	82-795-852-01		Cushion L, Printed indiv.	*	1
3	82-795-853-01		Cushion R, Printed indiv.	*	1
4	82-192-854-01		Outer carton (H, HB, HU, E, EB, G models only)	*	1/4
5	87-056-644-01		Poly-vinyl sack	*	1
6	82-192-855-01		Outer carton (U, UB models only)	*	1/2
7	82-192-904-01		Instructions booklet	*	1
8	87-051-171-11		Poly-vinyl sack	*	1
9	87-056-009-51		Distributors list (H, HB, E, EB, G models only)	*	1
10	87-056-045-01		Guarantee card (HU, U, UB models only)	*	1
11	87-056-057-01		Service station list (HU, U, UB models only)	*	1
12	87-056-059-01		Guarantee card (G model only)	*	1
13	87-056-050-01		Safety instruction (U, UB models only)	*	1
14	87-034-970-01		Connection cord CW-258FSK	*	1

AIWA Co., Ltd. Tokyo Japan