

STEREO CASSETTE DECK WITH DOLBY-NR SYSTEM

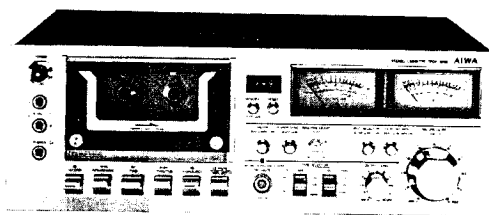
MODEL NO. AD-6600U, E, K

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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AIWA®

(SERVICE MANUAL)

Cord No.. 04-660-000-46



10732

DATE OF ISSUE 11/1978

SPECIFICATIONS

Semiconductors:	10 IC's, 57 transistors, 33 diodes, 2 LED's (U model) 10 IC's 69 transistors, 34 diodes, 2 LED's (E, K model)	Channel separation:	More than 28 dB (1 kHz, 0 VU)
Power source:	AC 120 V 60 Hz (U model) AC 110~120V/220~240V switchable 50/60 Hz (E model) AC 120V/240V switchable 50/60 Hz (K model)	Cross talk:	More than 60 dB (1 kHz, 0 VU)
Power consumption:	10W (U model) 14W (E, K model)	Erasing ratio:	More than 60 dB (400 Hz, 0 VU, +10 dB)
Dimensions:	17-3/4"(W) x 5-15/16"(H) x 13"(D) [450(W) x 150(H) x 330(D)mm] (U model) 420(W) x 150(H) x 330(D) mm (E, K model)	Level drift:	Less than 0.5 dB (10 kHz, 0 VU)
Weight:	18.7 lbs (8.5 kg) (U model) 7.5 kg (E, K model)	VU meter display error:	0 VU \pm 0.5 dB (0 VU)
Track type:	4 tracks 2 channel	Peak indicator hold time:	3 sec
Tape speed:	1-7/8 ips \pm 1% (4.76 cm/sec \pm 1%)	Bias frequency:	100 kHz
Automatic stop system:	Full auto stop	Frequency response:	LH tape 20 ~ 15,000 Hz 30 ~ 13,000 Hz (\pm 3 dB) Fe-Cr tape 20 ~ 17,000 Hz 30 ~ 15,000 Hz (\pm 3 dB) CrO ₂ tape 20 ~ 17,000 Hz 30 ~ 15,000 Hz (\pm 3 dB)
Automatic shut-off action time:	4 \pm 1 sec	Rec mute crosstalk:	More than 63 dB (1 kHz, 0 VU, +10 dB)
Pinch roller pressure:	375 \pm 30 g	Motor:	38 pulse FG servo motor
Take-up torque:	50 \pm 10 g-cm	Head:	Ferrite guard head (FGH)
FF & rewind torque:	125 \pm 25 g-cm	Input:	MIC: Max. input sensitivity 0.3 mV (200 Ω ~ 10 k Ω suitable)
FF & rewind time:	95 \pm 1.5 sec		LINE IN/REC: Max. input sensitivity 50 mV (More than 50 k Ω)
Unattended recording action time:	3.2 \pm 1.5 sec (at Power switch ON)	Output:	LINE OUT/PLAY: Standard output level 0.775V (Optimum load imped- ance more than 50 k Ω)
Play back output: (TTA-161)	1.05 \pm 0.05V (LINE)		PHONES: 0.175V (Load impedance 8 Ω) (U model) 0.110V (Load impedance 8 Ω) (E, K model)
Play back noise:	Less than 3.0/2.0 mV (CrO ₂ , Fe-Cr Dolby NR OFF/ON) Less than 4.0/2.5 mV (LH, Dolby NR OFF/ON)		
Rec./Pb. output:	0 VU \pm 1 dB		
Rec./Pb. distortion:	Less than 2.0% (CrO ₂ , LH) Less than 1.5% (Fe-Cr)		
Rec./Pb. SN ratio: (400 Hz, 0 VU) (Un-weighted)	More than 45/48 dB (CrO ₂ , Fe-Cr, Dolby NR OFF/ON) More than 43/45 dB (LH,		

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

DISASSEMBLY INSTRUCTIONS

1. To Remove Cabinet

- 1) Remove 7 screws. (Refer to Fig. 1)

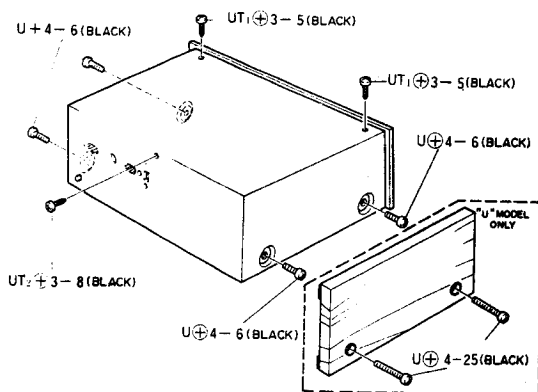


Fig. 1

2. To Remove Front Panel

- 1) Remove 2 screws, securing cassette window in place.
- 2) Pull out the control knobs.
- 3) Remove 7 screws. (Refer to Fig. 2)

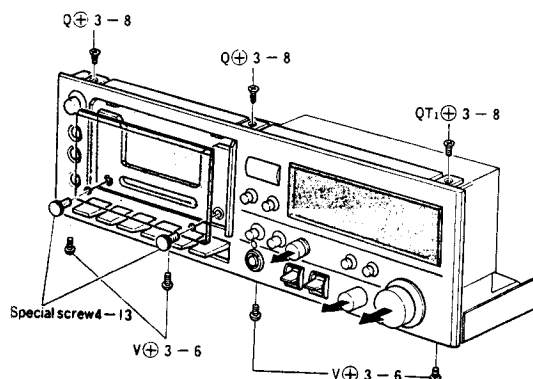


Fig. 2

3. To Remove Mechanism

- 1) Remove the counter belt.
- 2) Remove 7 screws. (Refer to Fig. 3)

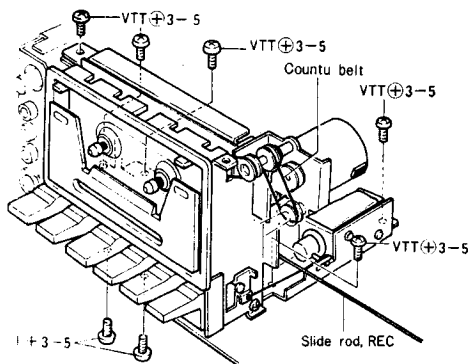


Fig. 3

4. To Remove Main Circuit Board

- 1) Remove the rod stoppers and take out the pus-rods. (Refer to Fig. 4)
- 2) Remove 2 screws. (Refer to Fig. 5)

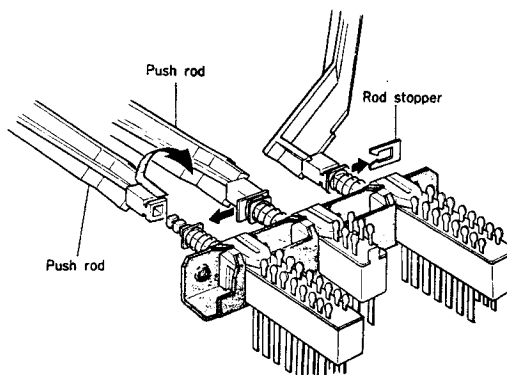


Fig. 4

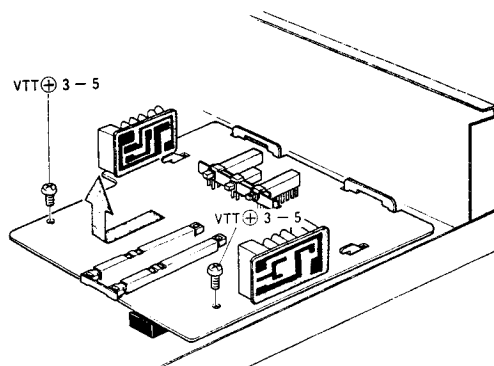


Fig. 5

5. To Remove Front Chassis

- 1) Remove the rod stoppers and take out the push-rods. (Refer to Fig. 4)
- 2) Remove 2 screws. (Refer to Fig. 6)

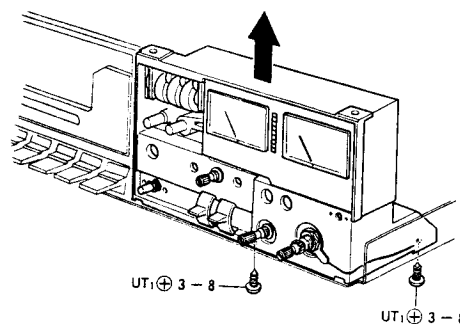


Fig. 6

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6. To Remove Switch Circuit Board.

- 1) Remove the rod stoppers and take out the push-rods.
(Refer to Fig. 4)
- 2) Remove the levers.
- 3) Remove 4 screws and mounting nut.
(Refer to Fig. 7)

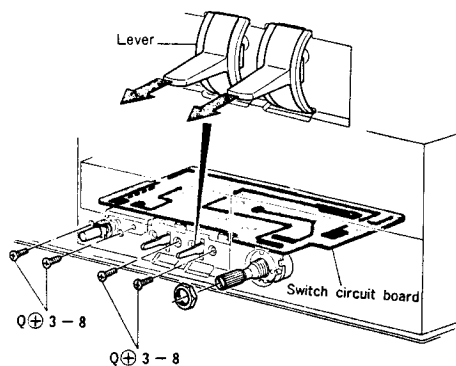


Fig. 7

9. To Remove LED (P) Circuit Board.

- 1) Remove mounting screws, securing meter plate in place.
- 2) Remove 2 screws.
(Refer to Fig. 10)

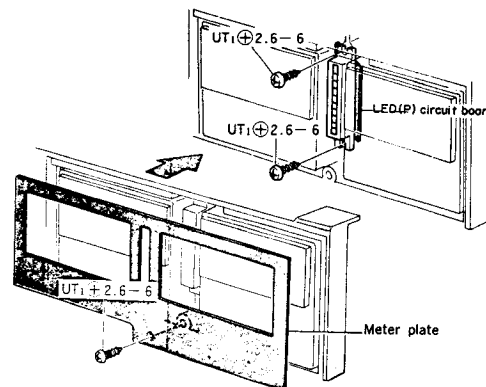


Fig. 10

7. To Remove Power Circuit Board.

- 1) Remove 3 screws. (Refer to Fig. 8)

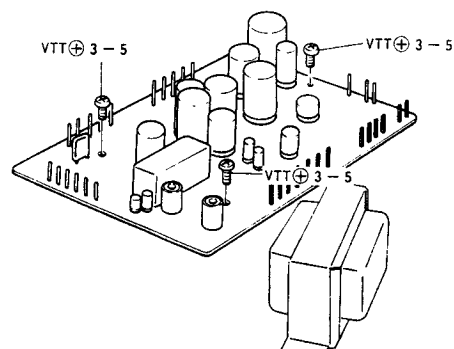


Fig. 8

10. To Remove Equalizer Circuit Board.

- 1) Remove the Circuit Board.
(Refer to Fig. 11)

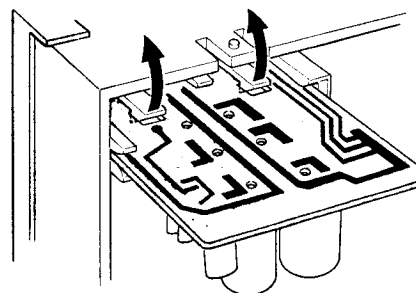
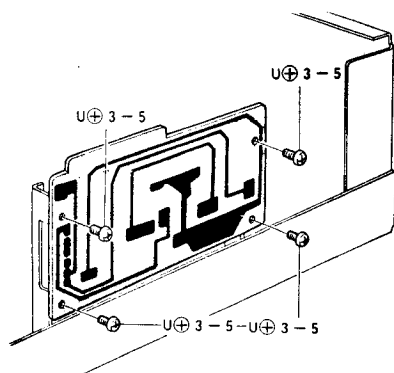


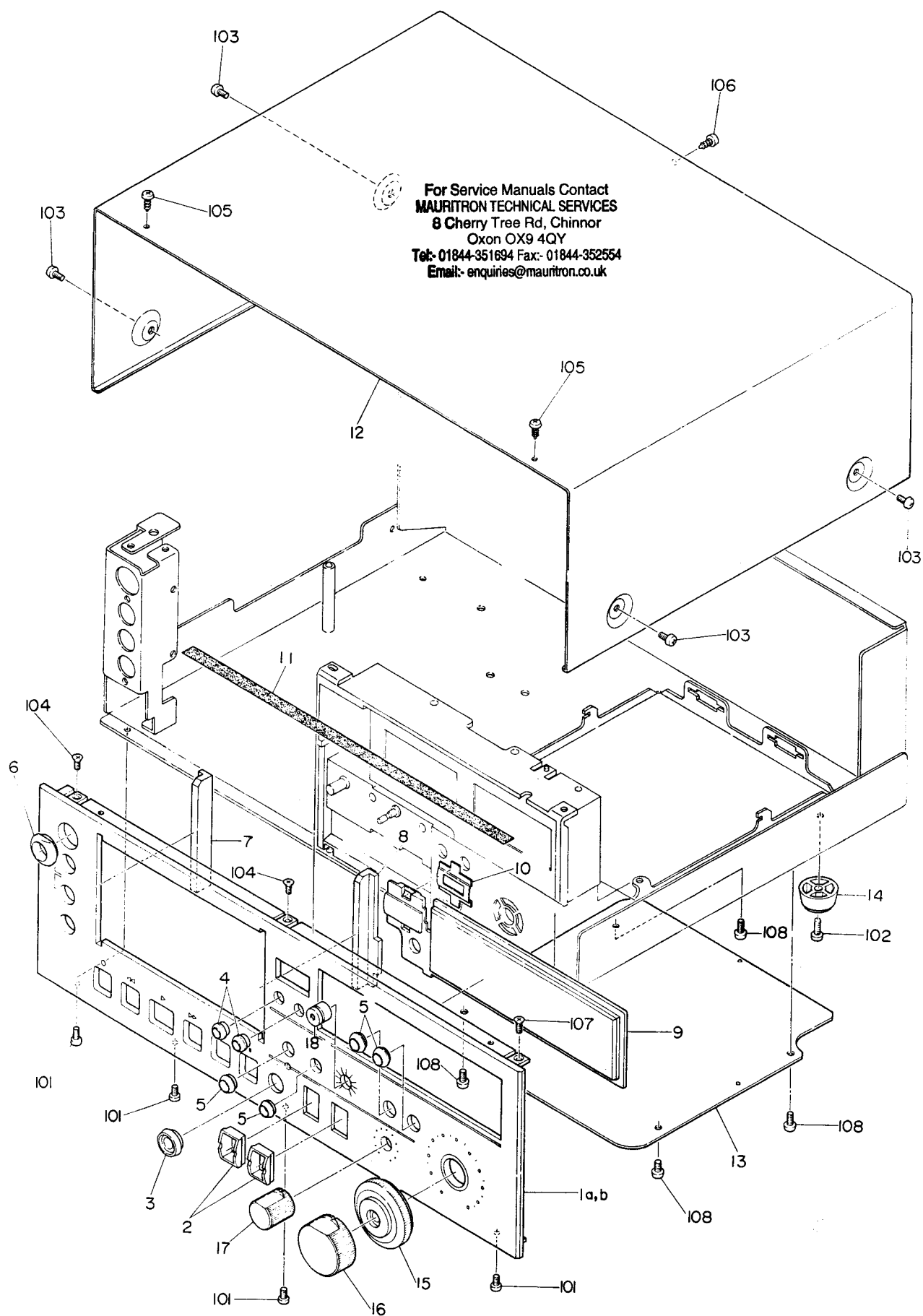
Fig. 11

8. To Remove Meter/Peak Circuit Board.

- 1) Remove 4 screws. (Refer to Fig. 9)



EXPLODED VIEW-1



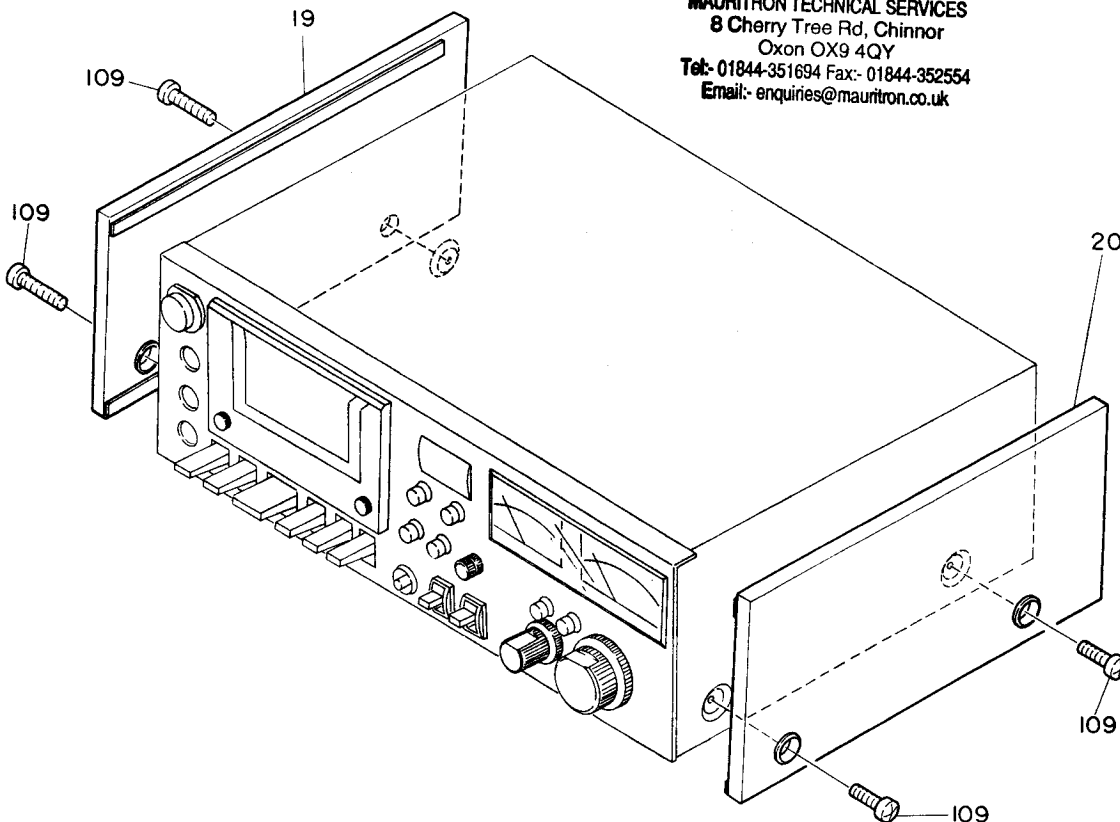
MECHANICAL PARTS

PARTS LIST

■ * mark in this part list shows exclusive part (which is used) for only Model AD-6600.

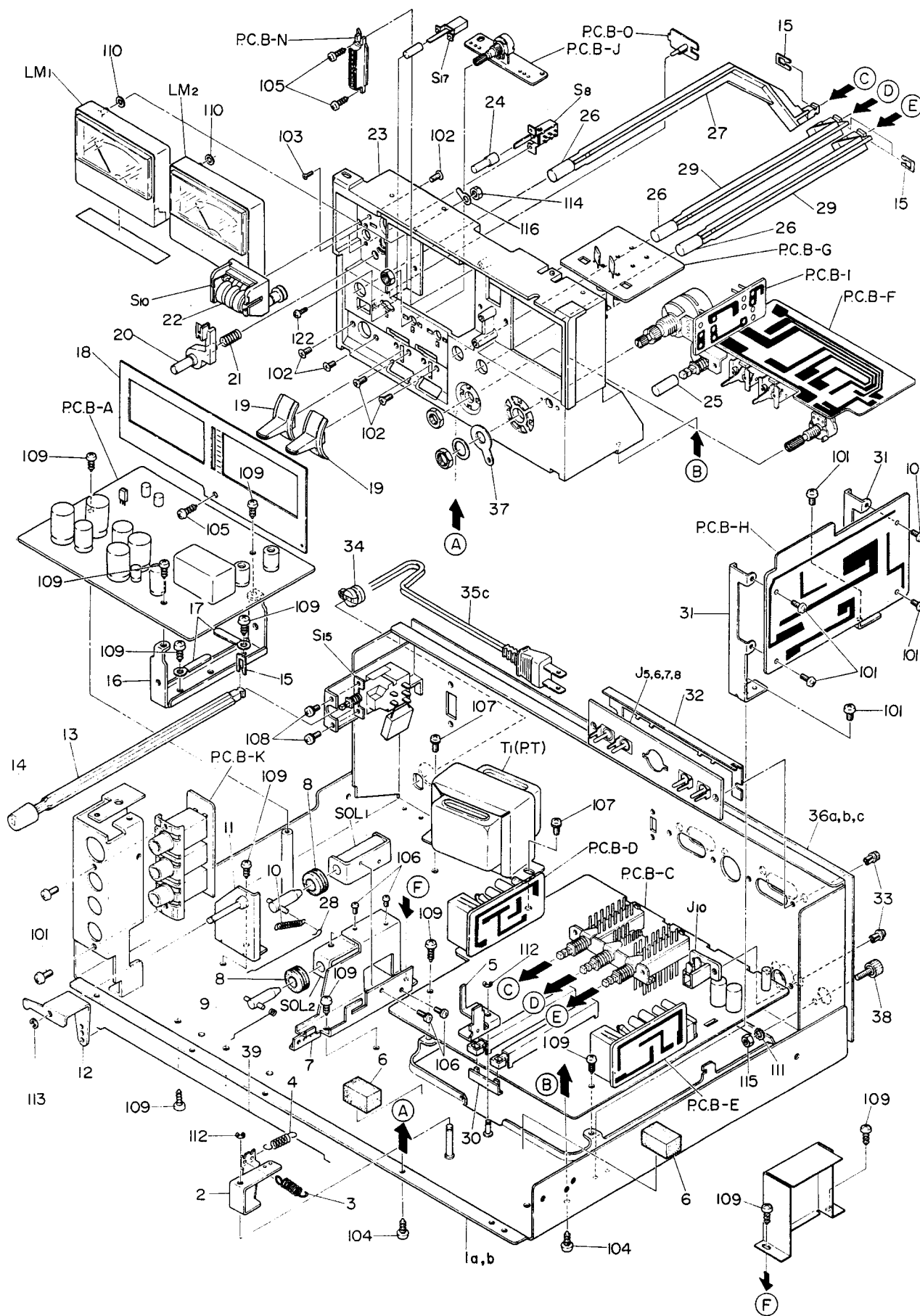
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1~11	09-047-125-01		Panel Assembly – "E, K" model			
1~11	09-047-124-01		Panel Assembly – "U" model			
1-1a	82-306-005-01		Panel E, Front (E, K model only)	*	1	
1-1b	82-306-026-01		Panel U, Front (U model only)	*	1	
1-2	82-305-018-01		Cover, Bias		2	
1-3	82-305-014-01		Ring, REC MUTE switch		1	
1-4	82-305-012-01		Ring, Counter switch		2	
1-5	82-305-016-01		Ring, Selector switch		4	
1-6	82-478-012-01		Ring, Power button		1	
1-7	82-305-004-01		Guide L, Cassette lid		1	
1-8	82-305-005-01		Guide R, Cassette lid		1	
1-9	82-305-006-01		Window, Meter		1	
1-10	82-305-009-01		Cover, Counter		1	
1-11	82-397-245-01		Himeron cloth, Cabinet	AD-6550	1	
1-12	82-302-044-01		Steel cabinet B		1	
1-13	82-399-029-01		Back cover	AD-6400	1	
1-14	87-085-161-01		Foot		4	
1-15	82-397-021-01		REC knob B ass'y	AD-6550	1	
1-16	82-397-019-01		REC knob A ass'y	AD-6550	1	
1-17	82-397-023-01		PB knob ass'y	AD-6550	1	
1-18	82-306-012-01		Knob, Bias	*	1	
1-19	87-052-090-01		Side panel L ass'y (U model only)		1	
1-20	87-052-110-01		Side panel R ass'y (U model only)		1	

EXPLODED VIEW-1 AD-6600U



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EXPLODED VIEW-2

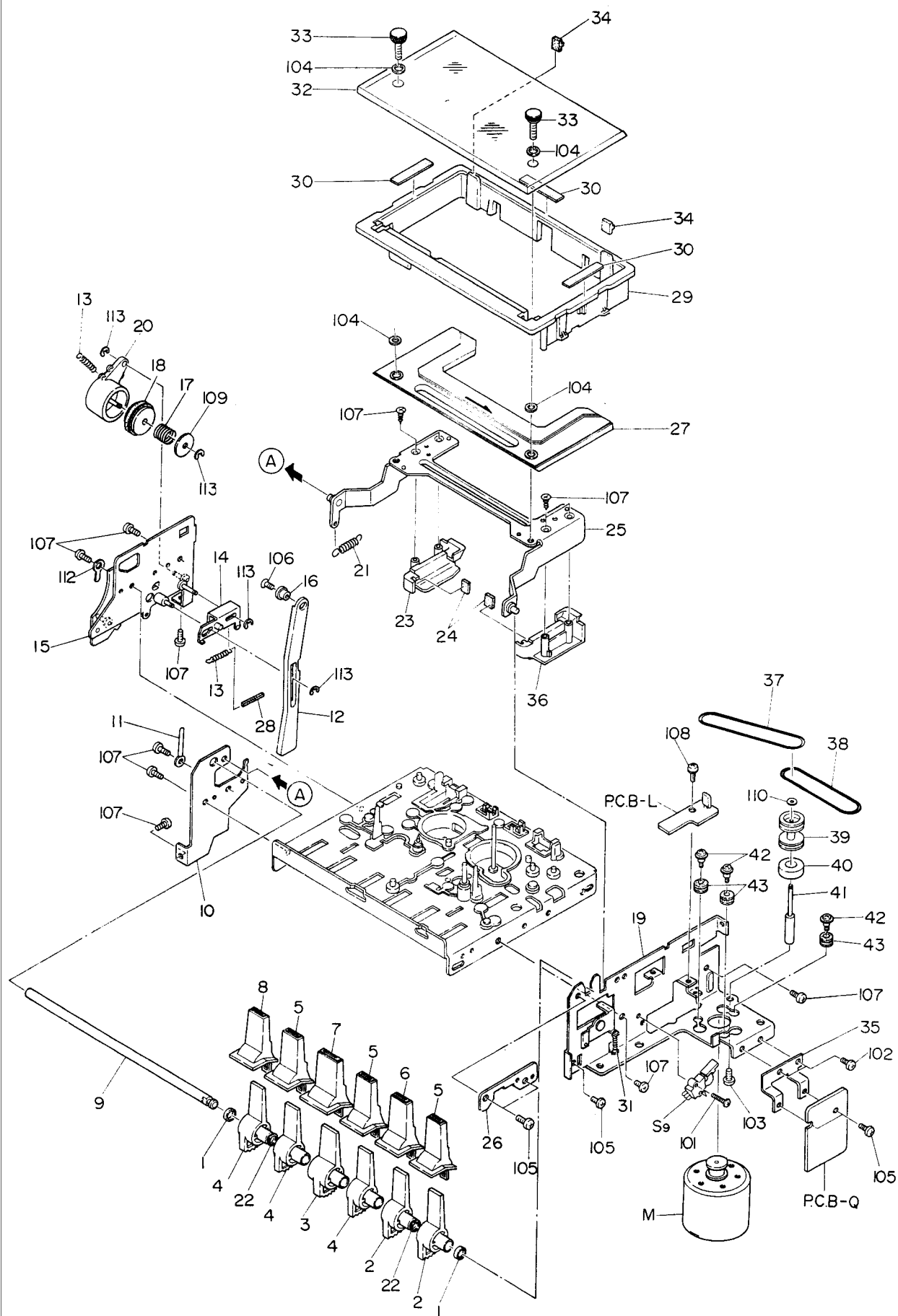


E.K model only

117
41
40
42
PC.B-R
33
35a
35b
46
45
121
43
119
120
118
FI-4
PC.B-B
PC.B-S

U model only

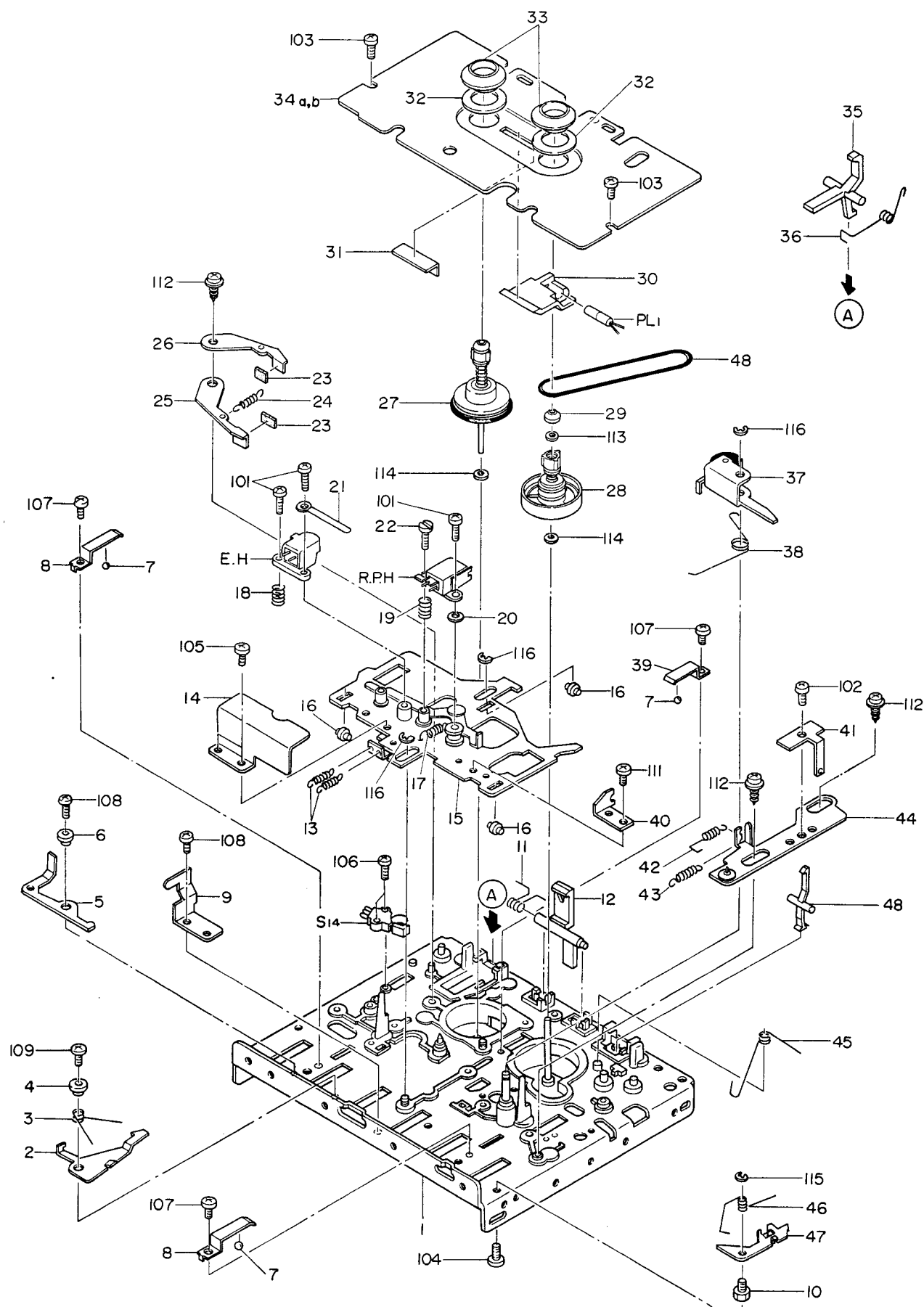
EXPLODED VIEW-3



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-397-279-01		Collar, Push-key	AD-6550	2	
3-2	82-397-276-01		Push-key lever, REW	AD-6550	2	
3-3	82-397-274-01		Push-key lever, PLAY	AD-6550	1	
3-4	82-397-275-01		Push-key lever, STOP	AD-6550	3	
3-5	82-397-046-01		Push-key, FF	AD-6550	3	
3-6	82-397-048-01		Push-key, STOP	AD-6550	1	
3-7	82-397-045-01		Push-key, PLAY	AD-6550	1	
3-8	82-397-047-01		Push-key, REC	AD-6550	1	
3-9	82-397-278-01		Shaft, Push-key	AD-6550	1	
3-10	82-397-252-01		Holder, Push-key	AD-6550	1	
3-11	87-038-039-01		Wire binder		1	
3-12	82-397-280-01		Lock plate, Cassette lid	AD-6550	1	
3-13	82-397-301-01		Spring	AD-6550	2	
3-14	82-397-261-01		Lock lever ass'y	AD-6550	3	
3-15	82-399-203-01		Frame chassis L ass'y	AD-6550	1	
3-16	82-397-281-01		Fringe collar, Cassette lid	AD-6550	1	
3-17	82-397-302-01		Spring, Oil	AD-6550	1	
3-18	82-397-271-01		Idler ass'y, Oil	AD-6550	1	
3-19	82-306-202-01		Frame chassis R ass'y		1	
3-20	82-397-265-01		Drum Oil ass'y	AD-6550	1	
3-21	82-399-215-01		Spring, Cassette lid arm		1	
3-22	87-081-574-01		Spacer, Button		1	
3-23	82-397-043-01		Cassette case L	AD-6550	1	
3-24	82-397-312-01		Cushion, Cassette case	AD-6550	2	
3-25	82-305-217-01		Cassette case proper ass'y		1	
3-26	82-397-270-01		Shaft, Stopper C	AD-6550	1	
3-27	82-305-022-01		Cassette lid ass'y		1	
3-28	87-063-109-01		Cushion		1	
3-29	82-397-044-01		Blinder	AD-6550	1	
3-30	82-397-313-01		Cushion, Blinder	AD-6550	3	
3-31	82-272-424-01		Spring, Brake		1	
3-32	82-305-003-01		Window, Cassette case		1	
3-33	82-397-040-01		Screw 4-13	AD-6550	2	
3-34	82-397-055-01		Cushion, Cassette lid	AD-6550	2	
3-35	82-397-647-01		Holder, Motor circuit board	AD-6550	1	
3-36	82-397-042-01		Cassette case R	AD-6550	1	
3-37	82-397-325-01		Rubber belt C	AD-6550	1	
3-38	82-397-314-01		Rubber belt A	AD-6550	1	
3-39	82-397-228-01		Relay pulley	AD-6550	1	
3-40	82-379-617-01		Ring magnet		1	
3-41	82-397-247-01		Shaft ass'y, Relay	AD-6550	1	
3-42	87-081-483-01		Motor screw		3	
3-43	87-087-029-01		Rubber cushion		3	

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EXPLODED VIEW-4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	82-392-202-01		Outsert chassis ass'y	AD-6550	1
4-2	82-397-320-01		Stopper, Actuating chassis	AD-6550	1
4-3	82-397-299-01		Spring, Stopper	AD-6550	1
4-4	82-397-323-01		Frang collar B	AD-6550	1
4-5	82-397-321-01		Lever, Actuating chassis	AD-6550	1
4-6	82-397-322-01		Frang collar A	AD-6550	1
4-7	82-215-341-01		Steel ball, 3/32		3
4-8	82-392-317-01		Spring, Actuating chassis B	AD-6550	2
4-9	82-397-289-01		Stopper B, Push-key shaft	AD-6550	1
4-10	82-392-211-01		Shaft, Lock plate	AD-6550	1
4-11	82-397-297-01		T spring, Cassette holder	AD-6550	1
4-12	82-397-286-01		Lever, Cassette holder	AD-6550	1
4-13	82-392-342-01		Return spring	AD-6550	2
4-14	82-397-291-01		Shield plate, Head	AD-6550	1
4-15	82-481-290-01		Actuating chassis ass'y		1
4-16	82-392-318-01		Rollar, Actuating chassis	AD-6550	3
4-17	82-392-343-01		Spring, Actuating	AD-6550	1
4-18	82-392-357-01		Spring, Erase head platform	AD-6550	1
4-19	82-392-347-01		Spring, Head	AD-6550	1
4-20	82-392-354-01		Cushion, Head	AD-6550	1
4-21	82-357-487-01		Lead holder D		1
4-22	82-439-373-01		Shaft, Rec./Pb head adjustment	TPR-300	1
4-23	82-392-350-01		Felt, Back tension	AD-6550	2
4-24	82-392-340-01		Spring, Back tension	AD-6550	1
4-25	82-392-359-01		Lever, Back tension C	AD-6550	1
4-26	82-392-360-01		Lever, Back tension D	AD-6550	1
4-27	82-397-326-01		Supply-reel platform ass'y	AD-6550	1
4-28	82-392-283-01		Take-up reel platform ass'y	AD-6550	1
4-29	82-392-352-01		Cap, Take-up reel platform	AD-6550	1
4-30	82-397-041-01		Guide, Light	AD-6550	1
4-31	82-397-345-01		Blinder, Light	AD-6550	1
4-32	82-397-290-01		Adhesive sheet, Ring	AD-6550	2
4-33	82-397-039-01		Ring, Reel platform	AD-6550	2
4-34a	82-397-030-01		Cassette plate (E, K model only)	AD-6550	1
4-34b	82-397-038-01		Cassette plate (U model only)	AD-6550	1
4-35	82-397-287-01		Rec-blocking lever	AD-6550	1
4-36	82-397-298-01		T spring, Blocking lever	AD-6550	1
4-37	82-392-363-01		Pinch roller ass'y	AD-6550	1
4-38	82-392-334-01		T spring, Pinch lever	AD-6550	1
4-39	82-392-317-01		Spring, Actuating chassis A	AD-6550	1
4-40	82-392-367-01		Plate	AD-6550	1
4-41	82-397-233-01		Auxiliary plate, PAUSE	AD-6550	1
4-42	82-392-375-01		Spring, Pause B	AD-6550	1
4-43	82-392-374-01		Spring, Pause A	AD-6550	1
4-44	82-392-280-01		Slide plate pause ass'y	AD-6550	1
4-45	82-392-333-01		T spring, Take-up	AD-6550	1
4-46	82-392-335-01		T spring, Lock plate	AD-6550	1
4-47	82-392-213-01		Lock plate	AD-6550	1
4-48	82-397-288-01		Lever, CrO ₂ selecting	AD-6550	1

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Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
5-1	82-418-318-01		REV. auxiliary lever ass'y		1	
5-2	82-392-331-01		T spring, REV. auxiliary	AD-6550	1	
5-3	82-392-235-01		Push-switch proper ass'y	AD-6550	1	
5-4	82-392-262-01		Take-up idler ass'y	AD-6550	1	
5-5	82-392-361-01		Lever, Main drive B	AD-6550	1	
5-6	82-392-346-01		Spring, FF	AD-6550	1	
5-7	82-392-313-01		Slide plate, FR	AD-6550	1	
5-8	82-392-256-01		Shaft bearing ass'y	AD-6550	1	
5-9	82-392-319-01		Belt, Main	AD-6550	1	
5-10	82-392-371-01		Flywheel ass'y	AD-6550	1	
5-11	82-331-107-01		Screw for thrust		1	
5-12	82-392-321-01		Plate, Flywheel	AD-6550	1	
5-13	82-397-240-01		Lever, MT switch	AD-6550	1	
5-14	82-397-236-01		MT switch holder ass'y	AD-6550	1	
5-15	82-374-248-01		Switch holder C		1	
5-16	82-397-242-01		Slider, MT switch	AD-6550	1	
5-17	82-372-417-01		Spring B, MT switch slider	AD-1500	1	
5-18	82-397-308-01		Holder, Memory switch	AD-6550	1	
5-19	82-397-269-01		Holder, Hall	AD-6550	1	
5-20	82-392-337-01		Spring, Center shifter	AD-6550	1	
5-21	82-397-283-01		Eject lever B	AD-6550	1	
5-22	82-397-300-01		Spring, Eject lever	AD-6550	1	
5-23	82-397-307-01		G cushion, Eject lever	AD-6550	1	
5-24	82-397-253-01		Eject lever A ass'y	AD-6550	1	
5-25	82-392-332-01		Spring, Brake	AD-6550	1	
5-26	82-439-260-01		Brake shoe	TPR-300	2	
5-27	82-392-320-01		Slide plate, Brake	AD-6550	1	
5-28	82-397-360-01		Ring magnet A ass'y	AD-6550	1	
5-29	82-392-353-01		Collar, Rewind shaft	AD-6550	1	
5-30	82-392-326-01		Slide plate, REW	AD-6550	1	
5-31	82-392-323-01		Slide plate, Brake S	AD-6550	1	
5-32	82-397-285-01		Slide plate, Eject	AD-6550	1	
5-33	82-392-330-01		T spring, FR lever	AD-6550	1	
5-34	82-392-295-01		FR lever ass'y	AD-6550	1	
5-35	82-392-315-01		Gear, REW	AD-6550	1	
5-36	82-392-305-01		FF pulley ass'y	AD-6550	1	
5-37	82-397-282-01		Slide plate, REC	AD-6550	1	
5-38	82-392-345-01		Spring, REC lock	AD-6550	1	
5-39	82-392-274-01		REC lock lever ass'y	AD-6550	1	
5-40	82-397-284-01		Eject lever C	AD-6550	1	
5-41	82-392-373-01		G cushion, FR	AD-6550	1	
5-42	82-397-303-01		Spring	AD-6550	1	
5-43	87-819-200-51		Vinyl tube		1	
5-44	87-038-039-01		Wire binder		1	
5-45	82-397-346-01		Holder, CrO ₂ switch	AD-6550	1	
5-46	82-397-347-01		Lever, CrO ₂	AD-6550	1	
5-47	82-397-350-01		T spring, CrO ₂	AD-6550	1	

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Ref. No.	Part No.	Description	Q'ty
1-101	87-261-094-21	V + 3-6	4
1-102	87-251-170-21	U + 4-8	4
1-103	87-257-169-01	U + 4-6(Black)	4
1-104	87-231-095-21	Q + 3-8	2
1-105	87-347-093-01	UT ₁ + 3-5(Black)	2

Ref. No.	Part No.	Description	Q'ty
1-106	87-481-402-01	UT ₁ + 3-8(Black)	1
1-107	87-321-295-11	QT ₁ + 3-8	1
1-108	87-081-481-01	VTT + 3-5	4
1-109	87-257-178-11	U + 4-25(Black) (U model only)	4

Ref. No.	Part No.	Description	Q'ty
2-101	87-251-093-21	U + 3-5	8
2-102	87-213-095-21	U + 3-8	6
2-103	87-231-034-21	U + 2-5	2
2-104	87-341-095-11	UT ₁ + 3-8	2
2-105	87-341-073-01	UT ₁ + 2.6-6	3
2-106	87-480-072-01	VS + 2.6-5	4
2-107	87-480-169-01	VS + 4-6	2
2-108	87-480-093-01	VS + 3-5	2
2-109	87-081-481-01	VTT + 3-5	13
2-110	87-081-255-01	FW3-8-1	4
2-111	87-433-906-01	WTIE-4	1
2-112	87-441-006-01	STE-2.3	2
2-113	87-441-009-01	STE-3	1

Ref. No.	Part No.	Description	Q'ty
2-114	87-391-717-11	N-3	4
2-115	87-391-724-11	N-4	1
2-116	87-450-414-01	LB-4	1
2-117	87-261-101-01	V + 3-18	2
2-118	87-253-093-01	U + 3-5	2
2-119	87-257-003-01	U + 2-4(Black) (U model only)	2
2-120	87-081-481-01	VTT + 3-5 (E,K model only)	2
2-121	87-257-257-01	U + 2-4(Black) (E,K model only)	2
2-122	87-261-034-21	V + 2-5	2

Ref. No.	Part No.	Description	Q'ty
3-101	87-253-036-01	U + 2-8	2
3-102	87-253-071-01	U + 2.6-4	2
3-103	87-253-072-01	U + 2.6-5	1
3-104	87-081-861-01	PW + 4.6-7.2-0.25	4
3-105	87-253-093-11	U + 3-5	5
3-106	87-233-074-01	Q + 2.6-8	1
3-107	87-326-036-01	UT ₁ + 2-8(Black)	4

Ref. No.	Part No.	Description	Q'ty
3-108	87-081-481-01	VTT + 3-5	8
3-109	87-480-072-01	VS + 2.6-5	1
3-110	87-410-318-01	W3-13-0.8	2
3-111	87-081-489-01	PW1.7-3.5-0.25	1
3-112	87-450-414-01	LB-4	1
3-113	87-441-006-01	STE-2.3	4





















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4-101	87-253-035-01	U + 2-6	3
4-102	87-251-071-21	U + 2.6-4	1
4-103	87-253-031-01	U + 2-2	2
4-104	87-253-032-01	U + 2-3	1
4-105	87-480-072-01	VS + 2.6-5	2
4-106	87-341-036-01	UT ₁ + 2-8	2
4-107	87-081-501-01	VTT + 2.6-4	3
4-108	87-081-480-01	VTT + 2.6-5	2

Ref. No.	Part No.	Description	Q'ty
4-109	87-081-503-01	VTT + 2.6-8	1
4-110	87-410-305-01	W2-6-0.4	1
4-111	87-480-071-01	VS + 2.6-4	1
4-112	87-510-074-01	VFT ₂ + 2.6-8	3
4-113	87-081-808-01	PW1.7-3.5-0.25	1
4-114	87-081-319-01	TW2.3-8-0.2	2
4-115	87-441-005-01	STE-2	1
4-116	87-441-006-01	STE-2.3	3


Ref. No.	Part No.	Description	Q'ty
5-101	87-253-072-01	U + 2.6-5	1
5-102	87-253-093-11	U + 3-5	2
5-103	87-253-036-01	U + 2-8	6
5-104	87-351-074-01	VT ₁ + 2.6-8	2
5-105	87-510-074-01	VFT + 2.6-8	2
5-106	87-341-037-01	UT ₁ + 2-10	2
5-107	87-870-095-01	UT ₁ + 3-8	2
5-108	87-480-072-01	VS + 2.6-5	3
5-109	87-081-480-01	VTT + 2.6-5	5
5-110	87-081-523-01	QTT + 2.6-8	1

Ref. No.	Part No.	Description	Q'ty
5-111	87-510-074-01	VFT ₂ + 2.6-8	5
5-112	87-410-312-01	W3-6-0.3	1
5-113	87-410-317-01	W3-10-0.8	5
5-114	87-081-489-01	PW1.7-3.5-0.25	3
5-115	82-416-358-01	PW6-2.5-0.5	1
5-116	87-442-005-01	STP-5	1
5-117	87-081-319-01	TW2.3-8-0.2	2
5-118	87-441-006-01	STE-2.3	5
5-119	87-374-035-01	SS2-6	1
5-120	87-341-034-01	UT ₁ + 2-5	2

HARDWARE NOMENCLATURE


V:	Pan head screw		SS:	Set screw	
U:	Binding head screw		WTIE:	Crown washer	
Q:	Flat countersunk head screw		N:	Nut	
VT1:	Pan head tapping screw		STE:	E ring	
UT1:	Binding head tapping screw		STP:	Powerful stop ring	
QT1:	Flat countersunk head tapping screw		W:	Washer	
VS:	Pan head screw with spring washer		FW:	Fiber washer	
VTT:	Pan head tap-tight screw		PW:	Poly-slider washer	
VTF:	Flange and Pan head tapping screw		TW:	Tefron washer	
VTF2:	Flange and Pan head tapping screw		LB:	Lug terminal plate	

Example:



V + 3 - 6
Length in mm
Diameter in mm
Type of Slot
Type of Head

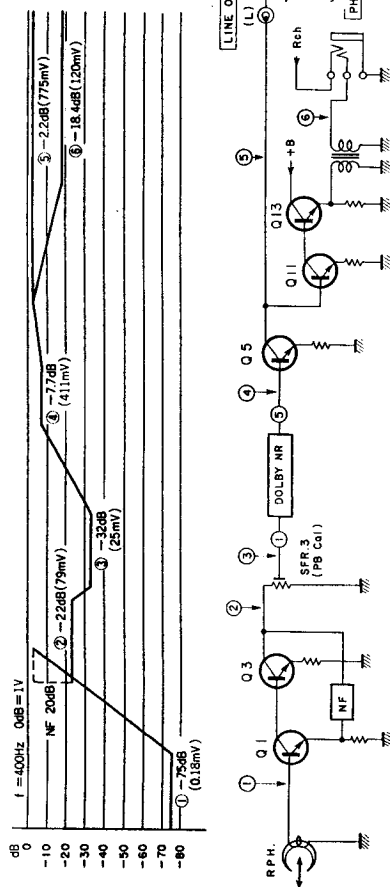
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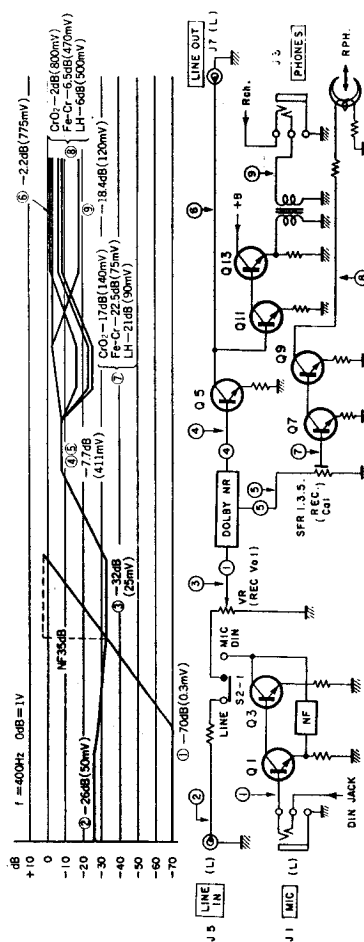
Q + 3 - 6
Length in mm
Diameter in mm
Type of Slot
Type of Head

LEVEL DIAGRAM

• PLAYBACK



• RECORD

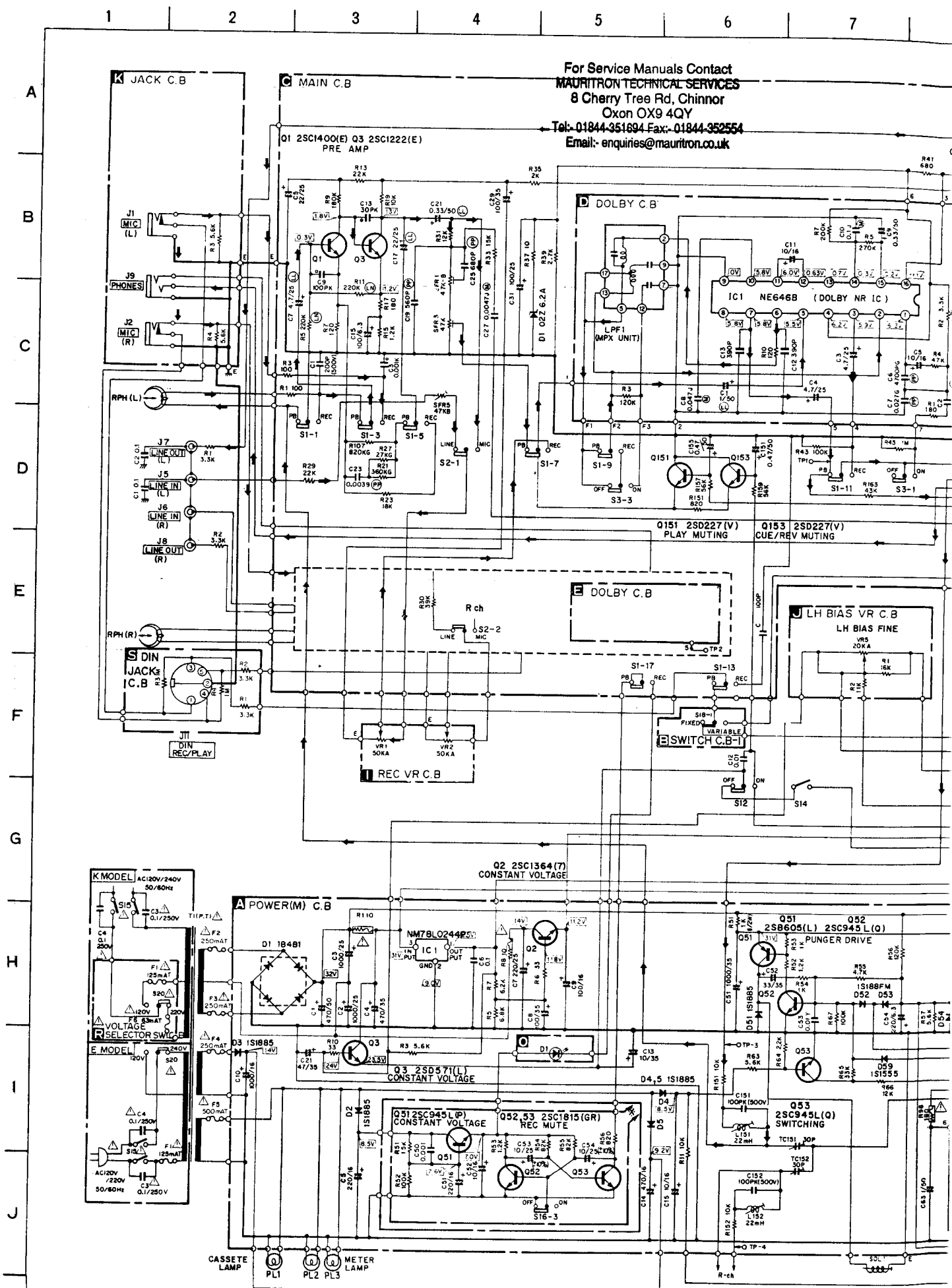


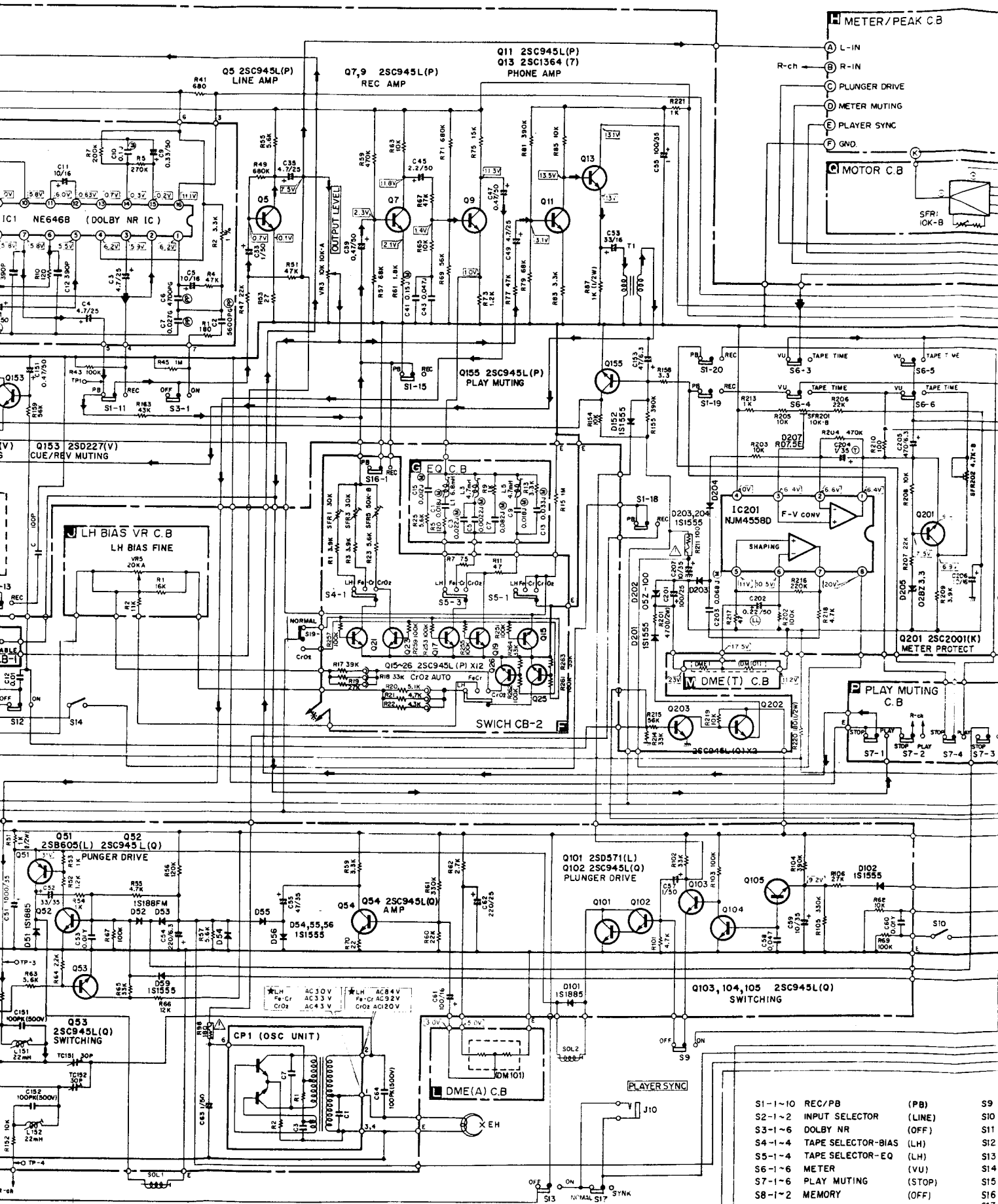
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

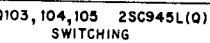
ACCESSORIES/PACKAGE













Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1a	82-306-854-01		Printed indiv., Packing (E, K model only)	*	1	
1b	82-306-856-01		Printed indiv., Packing (U model only)	*	1	
2a	82-306-859-01		Cushion L, Printed indiv. (E, K model only)	*	1	
2b	82-306-861-01		Cushion L, Printed indiv. (U model only)	*	1	
3a	82-306-860-01		Cushion R, Printed indiv. (E, K model only)	*	1	
3b	82-306-862-01		Cushion R, Printed indiv. (U model only)	*	1	
4	82-397-859-01		Pad, Cassette window		1	
5	87-051-135-01		Poly-vinyl sack		1	
6	87-056-564-01		Curl stopper		2	
7	87-056-607-01		Poly-vinyl sack		1	
8a	82-306-906-01		Instructions booklet (E model only)	*	1	
8b	82-306-907-01		Instructions booklet (K model only)	*	1	
8c	82-306-909-01		Instruction booklet (U model only)	*	1	
9	87-051-155-01		Poly-vinyl sack (U model only)		1	
10	87-051-175-01		Poly-tube A		1	
11	87-056-008-01		Label, AC power cord (K model only)		1	
12	87-056-009-01		Distributors list (E, K model only)		1	
13	82-056-016-01		Tag, Main voltage (K model only)		1	
14	87-056-034-01		Service station list (U model only)		1	
15	87-056-035-01		Card, Limited warranty (U model only)		1	
16	87-056-036-01		Guarantee card (U model only)		1	
17	80-291-645-01		Tape cassette, DMC-130A (E, K model only)		1	
18	86-925-006-01		Connection cord, CW-115KS (E, K model only)		1	
19	86-944-619-01		Connection cord, CW-129KS (U model only)		2	
20	87-058-023-01		Cord binder		1	
21	87-058-024-01		Head cleaning pole ass'y		1	

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
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 Email: enquiries@mauritron.co.uk



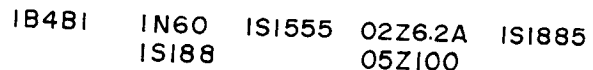




- 1) — B (+) power supply
- 2) ➤ Signal path
➤ Rec path
- 3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.
But () is with recording.
An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
- 4) Resistors with no designation have a rated power of 1/4W 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 $\pm 5\%$ (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)
- 8) Explanation of symbols
 Mylar capacitor
 Aluminum solid capacitor
 Polypropylene film capacitor
 Low-leakage capacitor
 Tantalum capacitor
 Styrol capacitor
 Low noise 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.



Tel: 01844-351694 **Fax:** 01844-352554
Email: enquiries@mauritron.co.uk



ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description
------------	----------	-------------

« POWER CIRCUIT BOARD SECTION »

PCB-A	82-306-609-01	Power circuit board
< Power section >		
IC1	87-306-671-01	IC, TA-78L024 AP
Q2,3	89-405-712-01	Transistor, 2SD571 (L)
D1	87-027-163-01	Compound diode, 1B4B1
D2,3,4,5	87-027-083-01	Diode, 1S1885
	87-032-883-01	Pin
< Resistors >		
R1,8	87-029-017-01	10Ω 1/4W Fuse resistor
R98	87-029-058-01	180Ω 1/4W Fuse resistor

< Bias OSC section >

L151,152	82-304-701-01	Coil, 22mH
TC151,152	85-708-604-21	Trimmer, 30pF
OSC UNIT	82-305-624-01	OSC unit

< Auto stop section >

Q51	89-206-052-01	Transistor, 2SB605 (L)
Q52,53,54	89-309-455-01	Transistor, 2SC945L (Q)
D51	87-027-083-01	Diode, 1S1885
D52,53	88-052-188-11	Diode, 1S188 (FM)
D54,55,56,59	87-027-097-01	Diode, 1S1555

< Timmer start section >

Q101	89-405-712-01	Transistor, 2SD571 (L)
Q102,103,104,105	89-309-455-01	Transistor, 2SC945L (Q)
Q155	89-309-456-01	Transistor, 2SC945L (P)
D101	87-027-083-01	Diode, 1S1885
D102	87-027-097-01	Diode, 1S1555

« SWITCH CIRCUIT BOARD-1 SECTION »

PCB-B	82-306-677-01	Switch circuit board-1
S18	87-031-460-01	Slide switch (DIN OUTPUT LEVEL)

« MAIN CIRCUIT BOARD SECTION »

PCB-C	82-306-632-31	Main circuit board
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< REC/PB section >

Q1,2	89-314-005-01	Transistor, 2SC1400 (E)
Q3,4	89-312-222-01	Transistor, 2SC1222 (E)
Q5,6,7,8,9,10,11,12,15,16,17,18,19,20,21,22,23,24,25,26	89-309-456-01	Transistor, 2SC945L (P)

Q13,14	89-313-647-01	Transistor, 2SC1364 (7)
D1,2	87-027-122-01	Zener diode, 02Z-6.2A
T1,2	82-370-610-01	Matching transformer
S1	87-031-390-01	Slide switch (REC/PB)
S2,3	82-397-641-01	Push switch ass'y B (INPUT SELECTOR, DOLBY NR)
S6	82-306-608-01	Push switch (METER)
SFR1,2,3,4,5	87-021-544-01	Semi-fixed resistor, 47kΩ-B
	87-032-883-01	Pin

< Capacitors >

C21,22	87-015-329-01	0.33μF 50V Electrolytic LL
C7,8	87-015-246-01	4.7μF 25V Electrolytic LL
C17,18	87-015-248-01	22μF 25V Electrolytic LL
C25,26	87-014-053-01	680pF PP
C19,20	87-014-051-01	560pF PP
C23,24	87-014-071-01	0.0039μF PP

< Muting section >

Q151,152,153,154	89-402-275-01	Transistor, 2SD227(V)
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Symbol No.	Part No.	Description	Symbc
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< Remaining tape indicator section >

IC201	87-027-235-01	IC, NJM4558 (D)	VR1,2
Q201	89-320-011-01	Transistor, 2SC2001 (K)	« LH B
Q202,203	89-309-455-01	Transistor, 2SC945L (Q)	PCB-J
D201,203,204	87-027-097-01	Diode, 1S1555	VR5
D202	87-027-213-01	Zener diode, 05Z-100	« FRO
D205	87-027-159-01	Zener diode, 02BZ3.3	PCB-K
SFR201	87-021-542-01	Semi-fixed resistor, 10kΩ-B	J1,2,3
SFR202	87-021-541-01	Semi-fixed resistor, 4.7kΩ-B	
< Resistor >			« DME
R211	87-029-082-01	100Ω 1/4W Fuse resistor	PCB-L
< Capacitors >			DME1
C202	87-015-328-01	0.22μF 50V Electrolytic LL	
C204	87-019-080-01	1μF 35V Tantalum	

« DOLBY CIRCUIT BOARD SECTION »

PCB-D,E	87-033-157-01	Dolby circuit board	« DME
IC1	87-027-357-01	IC, NE646B	PCB-M
LPF1	87-030-060-01	Low-pass filter	DME1
	87-032-640-01	Pin, 10P	
< Resistor >			« LED
R2	82-372-652-01	3.3kΩ 1/4W ±1%	PCB-N
< Capacitors >			D1
C1	87-015-241-01	1μF 50V Electrolytic LL	« LED
C6	82-317-643-01	0.0047μF ±2% PP	PCB-O
C2	82-371-642-01	0.0056μF ±2% PP	D1
C7	82-371-641-01	0.027μF ±2% PP	« PLA'

« SWITCH CIRCUIT BOARD-2 SECTION »

PCB-F	82-306-633-31	Switch circuit board-2	PCB-P
Q52,53	89-318-155-01	Transistor, 2SC1815 (GR)	S7
Q51	89-309-456-01	Transistor, 2SC945L (P)	« VOL
VR3,4	82-302-622-01	Volume, 10kΩ-A (OUTPUT LEVEL)	CIRC
S4,5	82-304-628-01	Lever switch (BIAS, EQ)	PCB-R
S16	82-302-627-01	Push switch (REC MUTE)	S20
SFR1,2,3,4	87-021-574-01	Semi-fixed resistor, 30kΩ-B	« DIN
SFR5,6	87-021-569-01	Semi-fixed resistor, 50kΩ-B	PCB-S

C53,54	82-302-616-01	10μF 25V Electrolytic	J5,6,7,8,
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« EQUALIZER CIRCUIT BOARD SECTION »

PCB-G	82-306-369-11	Equalizer circuit board	« MISC
L1,2	82-306-642-01	Inductor coil, 6.8mH	T1
L3,4,5,6	82-306-641-01	Inductor coil, 4.7mH	T1

« METER/PEAK CIRCUIT BOARD SECTION »

PCB-H	82-306-679-11	Meter/Peak circuit board	LM1
IC1	87-027-380-01	IC, LB-1405 S	LM2
IC2	87-027-261-01	IC, LB-1405	M-PCB-C
IC11,12	87-027-298-01	IC, TC4001 BP (NOR)	CP1
IC13	87-027-299-01	IC, C-TC4030P (OR)	PL1
IC14	87-027-300-01	IC, LM555 (TIMER)	SOL1,2
Q1,2	89-309-456-71	Transistor, 2SC945L (KP)	J5,6,7,8
Q3,4,5,6,7,15,16,17,18	89-107-335-61	Transistor, 2SA733K (P)	J10
Q11,12,13,14,19,21,72	89-309-456-01	Transistor, 2SC945L (P)	S8,17
Q71	89-405-712-01	Transistor, 2SD571 (L)	S9,11,12
D1,2,3,4,5,6	88-051-060-01	Diode, 1N60	
D11,12,13,14,71	87-027-097-01	Diode, 1S1555	S10
D15	87-027-159-01	Zener diode, 02BZ3.3	S14
SFR1,2	87-021-533-01	Semi-fixed resistor, 1kΩ-B	S15
SFR3	87-021-478-01	Semi-fixed resistor, 10kΩ-B	S19

S20

Description

>
M4558 (D)
istor, 2SC2001 (K)
istor, 2SC945L (Q)
1S1555
diode, 05Z-100
diode, 02BZ3.3
xed resistor, 10kΩ-B
xed resistor, 4.7kΩ-B
istor >
1/4W Fuse resistor
itors >
50V Electrolytic LL
35V Tantalum
TION >
ircuit board
46B
ss filter
tor >
1/4W ±1%
itors >
50V Electrolytic LL
F ±2% PP
F ±2% PP
±2% PP
CTION >
ircuit board-2
r, 2SC1815 (GR)
r, 2SC945L (P)
10kΩ-A
T LEVEL)
itch (BIAS, EQ)
itch (REC MUTE)
d resistor, 30kΩ-B
d resistor, 50kΩ-B
tor >
25V Electrolytic

SECTION >
ircuit board
coil, 6.8mH
coil, 4.7mH

SECTION >
k circuit board
05 S
05

1 BP (NOR)
030P (OR)
(TIMER)
2SC945L (KP)
2SA733K (P)

2SC945L (P)

2SD571 (L)
60

555

02BZ3.3

resistor, 1kΩ-B
resistor, 10kΩ-B

SECTION >

Symbol No.	Part No.	Description
VR1,2	87-021-523-01	Volume, 50kΩ-A (RECORD LEVEL)

« LH BIAS VOLUME CIRCUIT BOARD SECTION »

PCB-J	82-306-638-11	LH bias volume circuit board
VR5	82-305-632-01	Volume, 20kΩ-A (LH BIAS FINE)

« FRONT JACK CIRCUIT BOARD SECTION »

PCB-K	82-306-635-01	Front jack circuit board
J1,2,3	82-397-639-01	Jack ass'y (MIC, PHONES)

« DME (A) CIRCUIT BOARD SECTION »

PCB-L	82-306-625-01	DME (A) circuit board
DME1	82-397-642-01	DM-101

« DME (T) CIRCUIT BOARD SECTION »

PCB-M	82-306-626-01	DME (T) circuit board
DME1	82-397-642-01	DM-101

« LED (P) CIRCUIT BOARD SECTION »

PCB-N	82-306-680-01	LED (P) circuit board
D1	87-027-260-01	Light emitting diode, MULTI (PEAK)

« LED (R) CIRCUIT BOARD SECTION »

PCB-O	82-306-681-01	LED (R) circuit board
D1	87-027-218-01	Light emitting diode (RED)

« PLAY MUTING CIRCUIT BOARD SECTION »

PCB-P	82-306-624-01	Play muting circuit board
S7	87-031-239-01	Slide switch (PLAY MUTING)
PIN-3	87-032-764-01	Pin, 14P

« VOLTAGE SELECTOR

CIRCUIT BOARD SECTION » = K MODEL ONLY		
PCB-R	82-397-650-01	Voltage selector circuit board
S20	87-031-364-01	Slide switch (VOLTAGE SELECTOR)

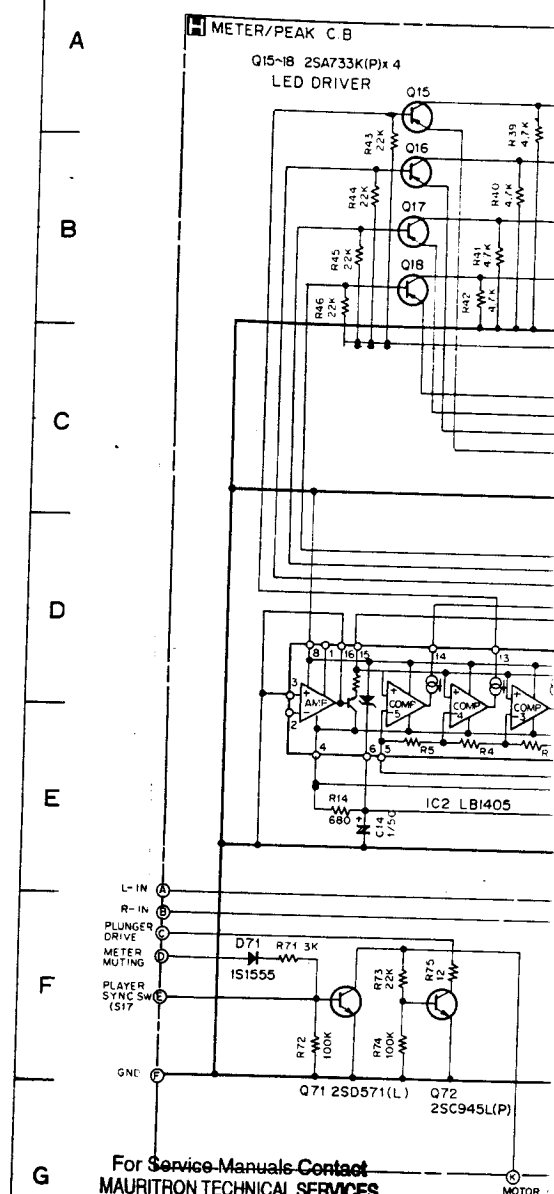
« DIN JACK CIRCUIT BOARD SECTION »

PCB-S	82-306-676-01	Din jack circuit board
J5,6,7,8,11	82-306-682-01	Jack ass'y (LINE IN/REC. LINE OUT/PLAY. DIN)

« MISCELLANEOUS »

T1	82-305-629-01	Power transformer (E model only)
T1	82-305-630-01	Power transformer (K model only)
RPH	87-046-157-01	REC/PB head
EH	87-046-156-01	Erase head
LM1	82-306-605-01	Level meter A (LEFT LEVEL)
LM2	82-306-606-01	Level meter B (RIGHT LEVEL)
M-PCB-Q	82-397-643-11	Motor ass'y (DC FG)
CP1	87-027-036-01	Compound capacitor
PL1	82-397-646-01	Pilot lamp, 8V 50mA (CASSETTE)
SOL1,2	82-397-633-01	Solenoid (AUTO STOP, TIMER START)
J5,6,7,8	82-306-670-01	Jack (LINE IN/REC, LINE OUT/PLAY)
J10	87-032-882-01	Jack 2.5φ (PLAYER SYNC)
S8,17	87-031-360-01	Push switch (MEMORY, PLAYER SYNC)
S9,11,12,13	87-031-418-01	Micro switch (PAUSE, REWIND, CUE/REVIEW, MOTOR)
S10	82-305-224-01	Counter (COUNTER)
S14	87-031-419-01	Micro switch (BIAS MITING)
S15	87-031-408-01	Push switch (POWER)
S19	87-031-377-01	Micro switch (CrO ₂ , AUTO)
S20	87-031-364-01	Slide switch (VOLTAGE SELECTOR) (E model only)

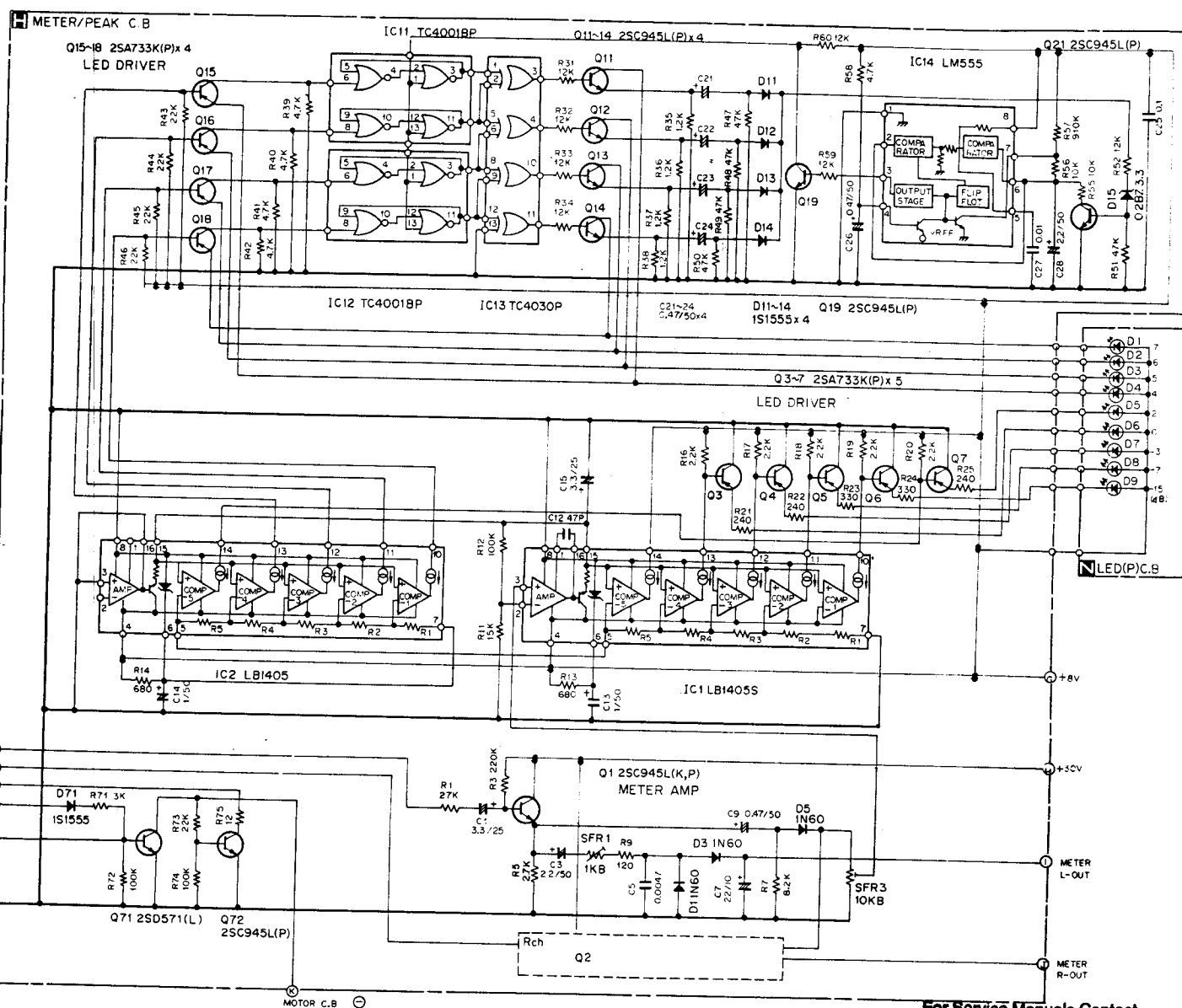
SCHEMATIC DIAGRAM-2



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Email: enquiries@mauritron.co.uk

Symbol No.	Part No.	
F1	87-035-114-01	Fuse, "T" only)
F1	87-035-186-01	Fuse, "T" only)
F2,3,4	87-098-007-01	Fuse label, Fuse, "T" only)
F2,3,4	87-035-144-01	Fuse, "T" only)
F2,3,4	87-035-145-01	Fuse, "T" only)
F5	87-098-010-01	Fuse label, Fuse, "T" only)
F5	87-035-075-01	Fuse, "T" only)
F5	87-035-134-01	Fuse, "T" only)
F6	87-098-013-01	Fuse label, Fuse, "T" only)
F6	87-035-184-01	Fuse, "T" only)
F6	87-098-004-01	Fuse label, Fuse, "T" only)

EMATIC DIAGRAM-2



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Symbol No.	Part No.	Description
3,4	87-035-114-01	Fuse, "T" 125 mA (E model only)
3,4	87-035-186-01	Fuse, "T" 125 mA (K model only)
	87-098-007-01	Fuse label, "T" 125 mA
	87-035-144-01	Fuse, "T" 250 mA (E model only)
	87-035-145-01	Fuse, "T" 250 mA (K model only)
	87-098-010-01	Fuse label, "T" 250 mA
	87-035-075-01	Fuse, "T" 500 mA (E model only)
	87-035-134-01	Fuse, "T" 500 mA (K model only)
	87-098-013-01	Fuse label, "T" 500 mA
	87-035-184-01	Fuse, "T" 63 mA (K model only)
	87-098-004-01	Fuse label, "T" 63 mA

Symbol No.	Part No.	Description
CON-1	82-306-689-01	Connector ass'y, 12P (A)
CON-1'	82-306-690-01	Connector ass'y, 12P (B)
CON-2	82-306-691-01	Connector ass'y, 12P (A)
CON-2'	82-306-692-01	Connector ass'y, 12P (B)
CON-3	82-306-668-11	Connector ass'y, 14P
	87-034-877-01	AC power cord (E model only)
	87-034-872-01	AC power cord (K model only)
	<Capacitors>	
	84-190-622-01	Line capacitor 0.1μF 250V



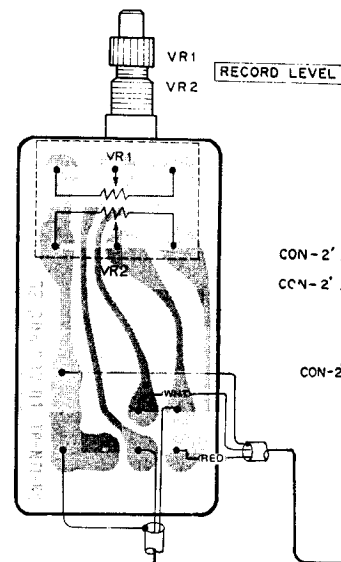
⚠ Safety component symbol

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.

WIRING-1

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REC VR C.B



5 Input Sensitivity Adjustment

Settings:

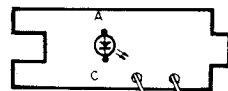
- Recording mode
- Input signal: 1 kHz, -10 dB
- Adjustment location: SFR5

Method:

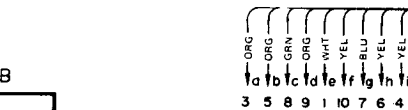
Adjust SFR5 so that the Line out level is 0.775 V and the same output for both the left and right channel when the RECORD LEVEL variable.

MAIN C.B A 10
 H 6

LED (R) C.B



RECORD/MUTING
 TIME COUNTER



SWITCH C.B

TP 2 Dolby Level Test Point (R-ch)

TP 1 Dolby Level Test Point (L-ch)

3 Dolby Level Adjustment

Settings:

- Test tape: TTA-161
- TAPE SELECTOR switch: LH
- Test point: TP1 (L-ch), TP2 (R-ch)
- Adjustment locations: SFR3 (L-ch), SFR4 (R-ch)

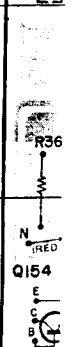
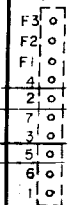
Method:

Play back the test tape and adjust so that the output is 580 mV.

Rating:

Line output 1.05 V

P.C.B



14 Tape Time 0 Point Adjustment

Settings:

- TAPE SELECTOR switch: LH
- METER: TAPE TIME
- Test tape: BASF LH SMC-60
- Adjustment location: SFR201

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 the so that the indicator points "0" within 30 ~ 60 seconds from that point.

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LINE IN / REC

LINE OUT / PLAY

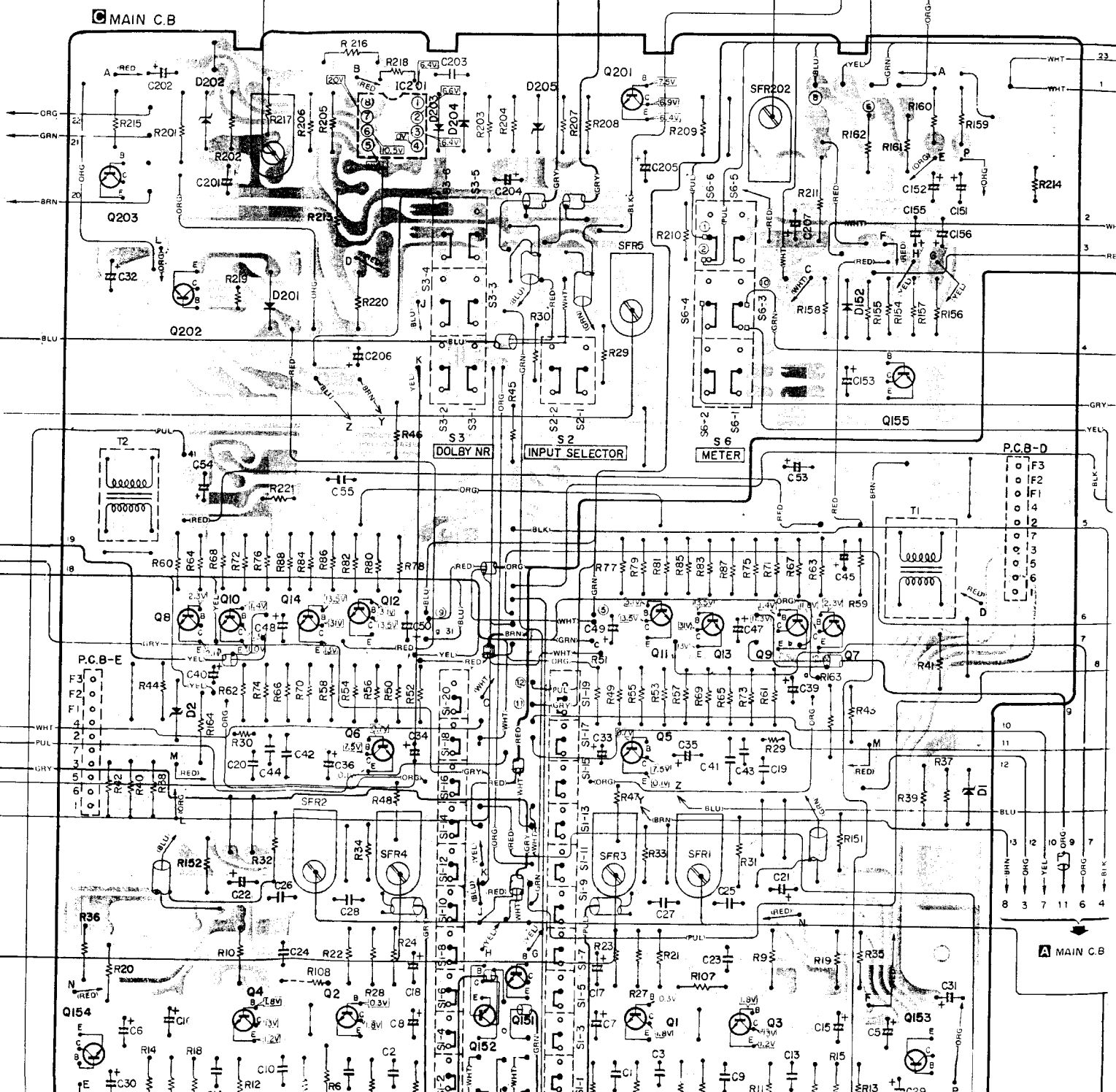
15 Tape Time Full Scale

Settings:

- TAPE SELECTOR switch: LH
- METER: TAPE TIME
- Test tape: AIWA F
- Adjustment location: SFR202

Method:

Adjust SFR202 so points to "Full Scale" to wind the test tape.



12 13 14 15 16 17 18 19

E OUT / PLAY

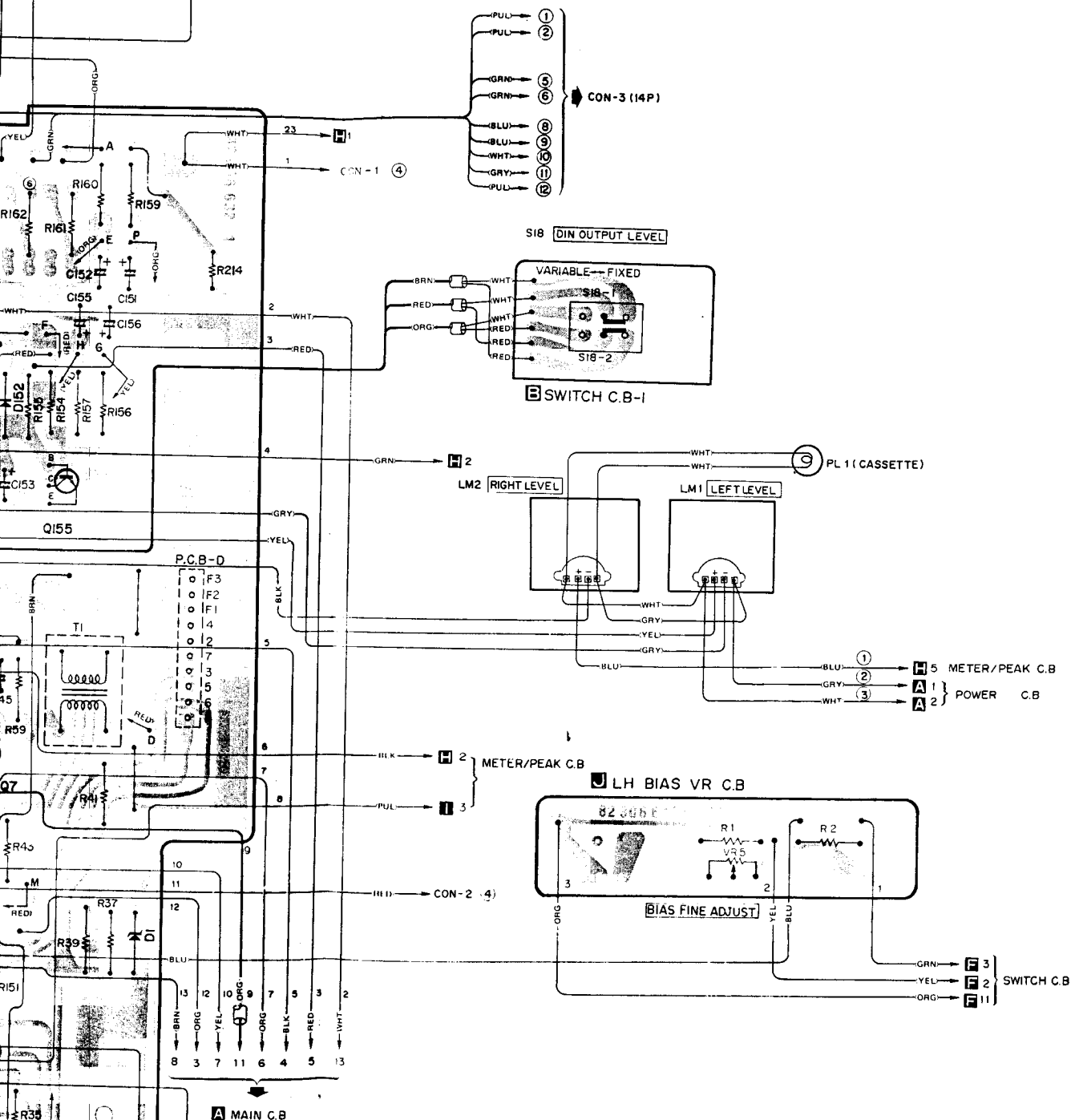
15 Tape Time Full Scale Adjustment

Settings:

- TAPE SELECTOR switch: Fe-Cr
- METER: TAPE TIME
- Test tape: AIWA Fe-Cr C-60
- Adjustment location: SFR202

Method:

Adjust SFR202 so that the indicator points to "Full Scale" when first starting to wind the test tape.



4 Playback Frequency Characteristic Adjustment

Settings:

- Test tape: TTA-117E
- TAPE SELECTOR switch: Fe-Cr
- Adjustment locations: SFR1 (L-ch), SFR2 (R-ch)

Method:

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5 Input Sensitivity Adjustment

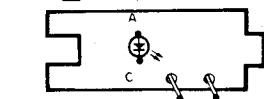
Settings:

- Recording mode
- Input signal: 1 kHz, -10 dB
- Adjustment location: SFR5

Method:

Adjust SFR5 so that the Line out level is 0.775 V and the same output for both the left and right channel when the RECORD LEVEL variable.

LED (R) C.B



RECORD/MUTING
TIME COUNTER

TP 2 Dolby Level Test Point (R-ch)

TP 1 Dolby Level Test Point (L-ch)

3 Dolby Level Adjustment

Settings:

- Test tape: TTA-161
- TAPE SELECTOR switch: LH
- Test point: TP1 (L-ch), TP2 (R-ch)
- Adjustment locations: SFR3 (L-ch), SFR4 (R-ch)

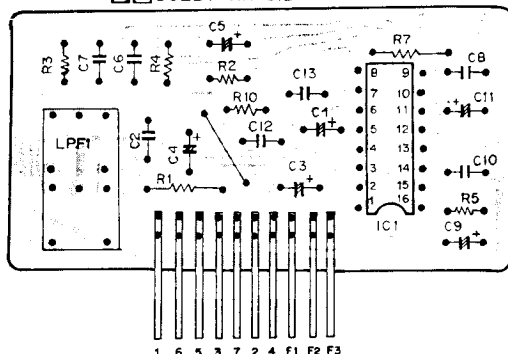
Method:

Play back the test tape and adjust so that the output is 580 mV.

Rating:

Line output 1.05 V

DOLBY-NR C.B



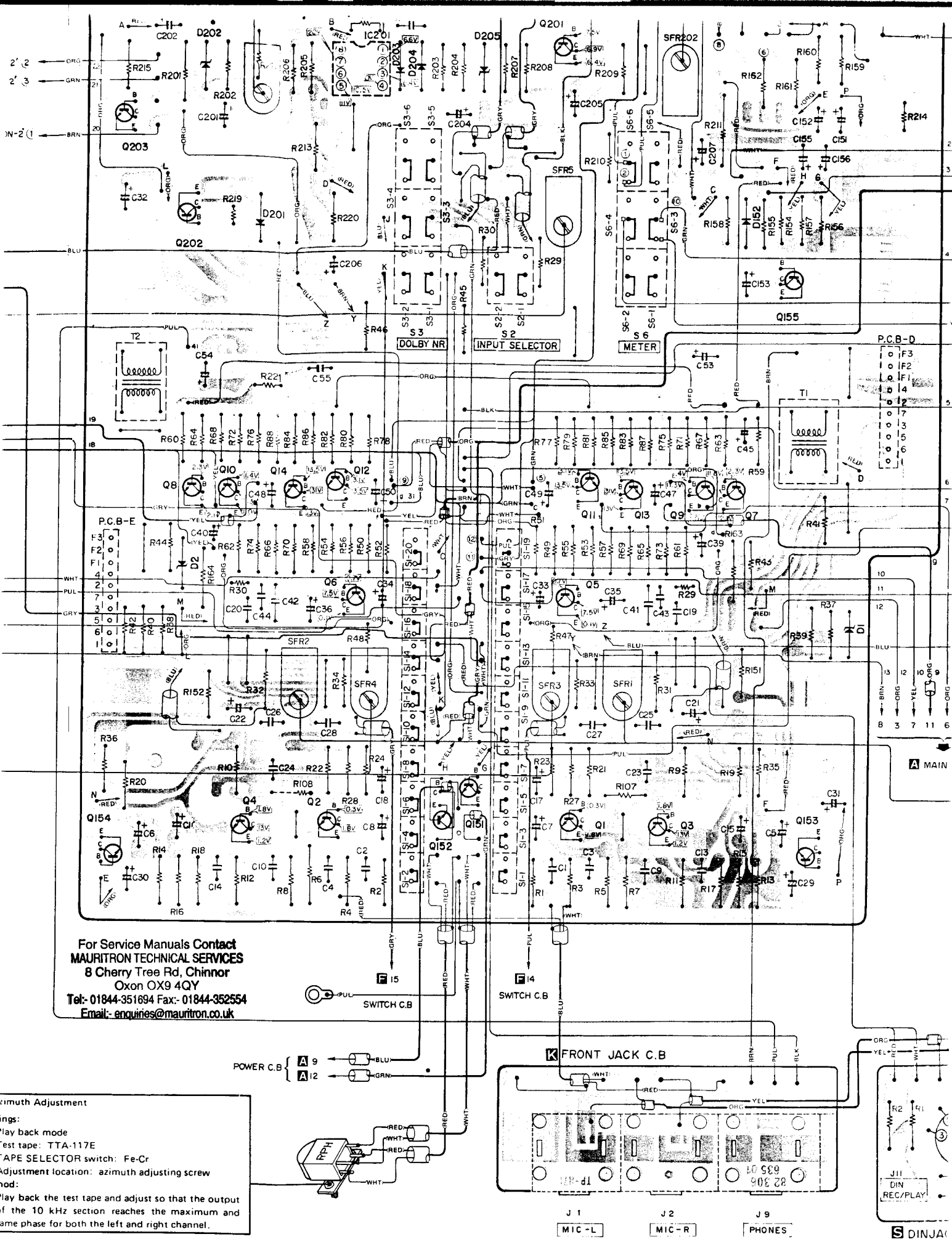
2 Azimuth Adjustment

Settings:

- Play back mode
- Test tape: TTA-117E
- TAPE SELECTOR switch: Fe-Cr
- Adjustment location: azimuth adjusting screw

Method:

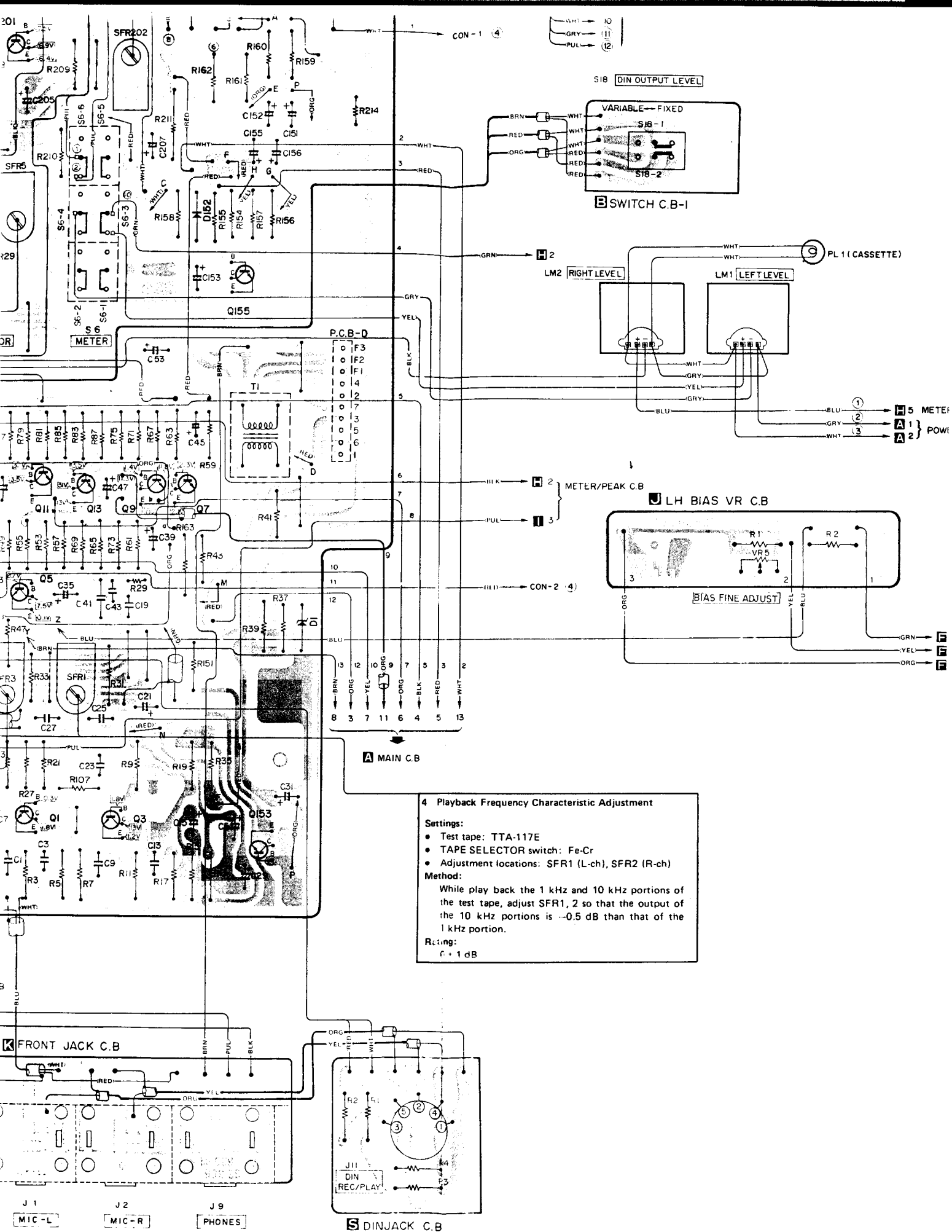
Play back the test tape and adjust so that the output of the 10 kHz section reaches the maximum and same phase for both the left and right channel.

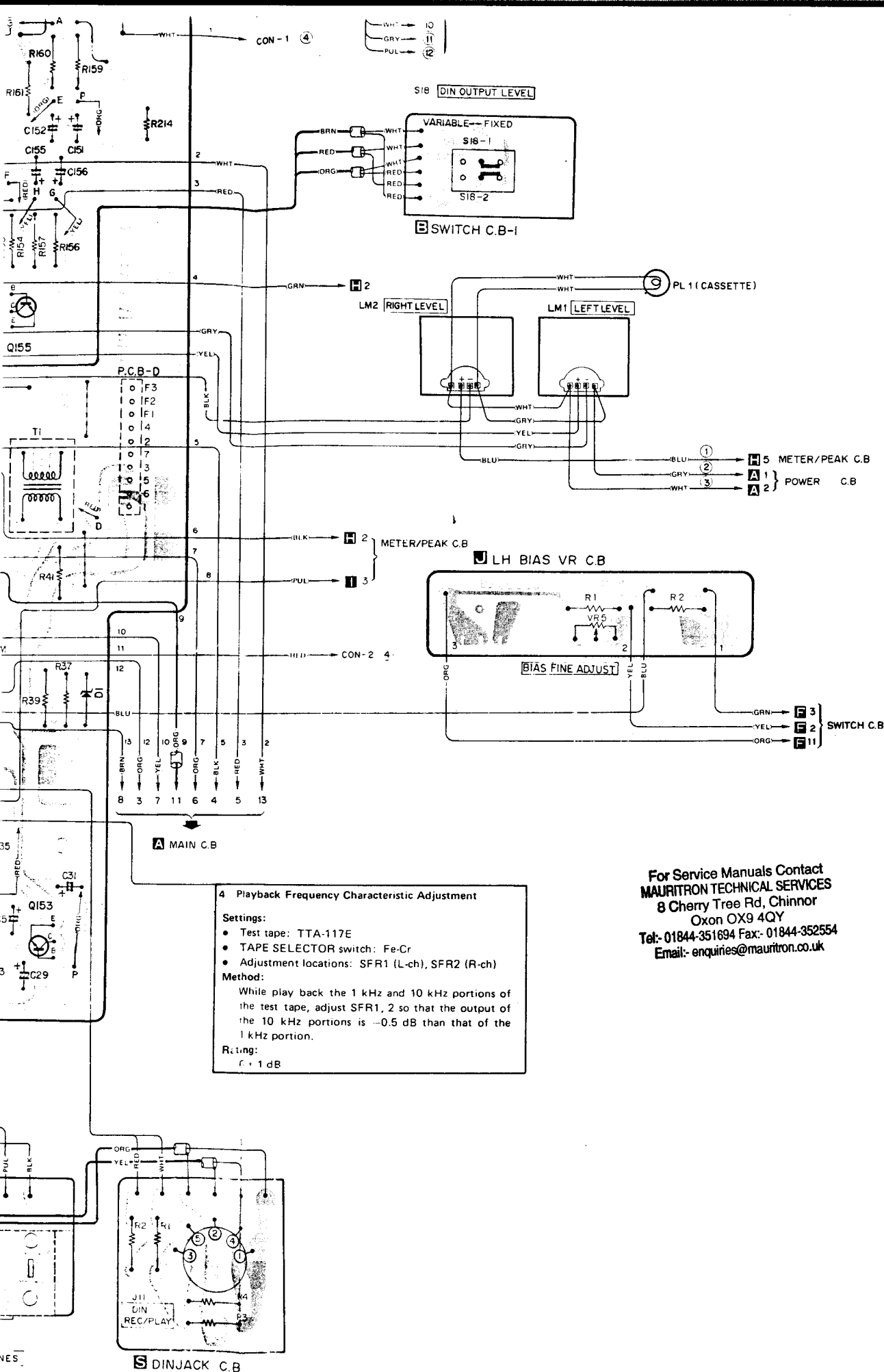


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Amplitude Adjustment
ings:
lay back mode
est tape: TTA-117E
APE SELECTOR switch: Fe-Cr
adjustment location: azimuth adjusting screw
od:
lay back the test tape and adjust so that the output
of the 10 kHz section reaches the maximum and
ame phase for both the left and right channel.

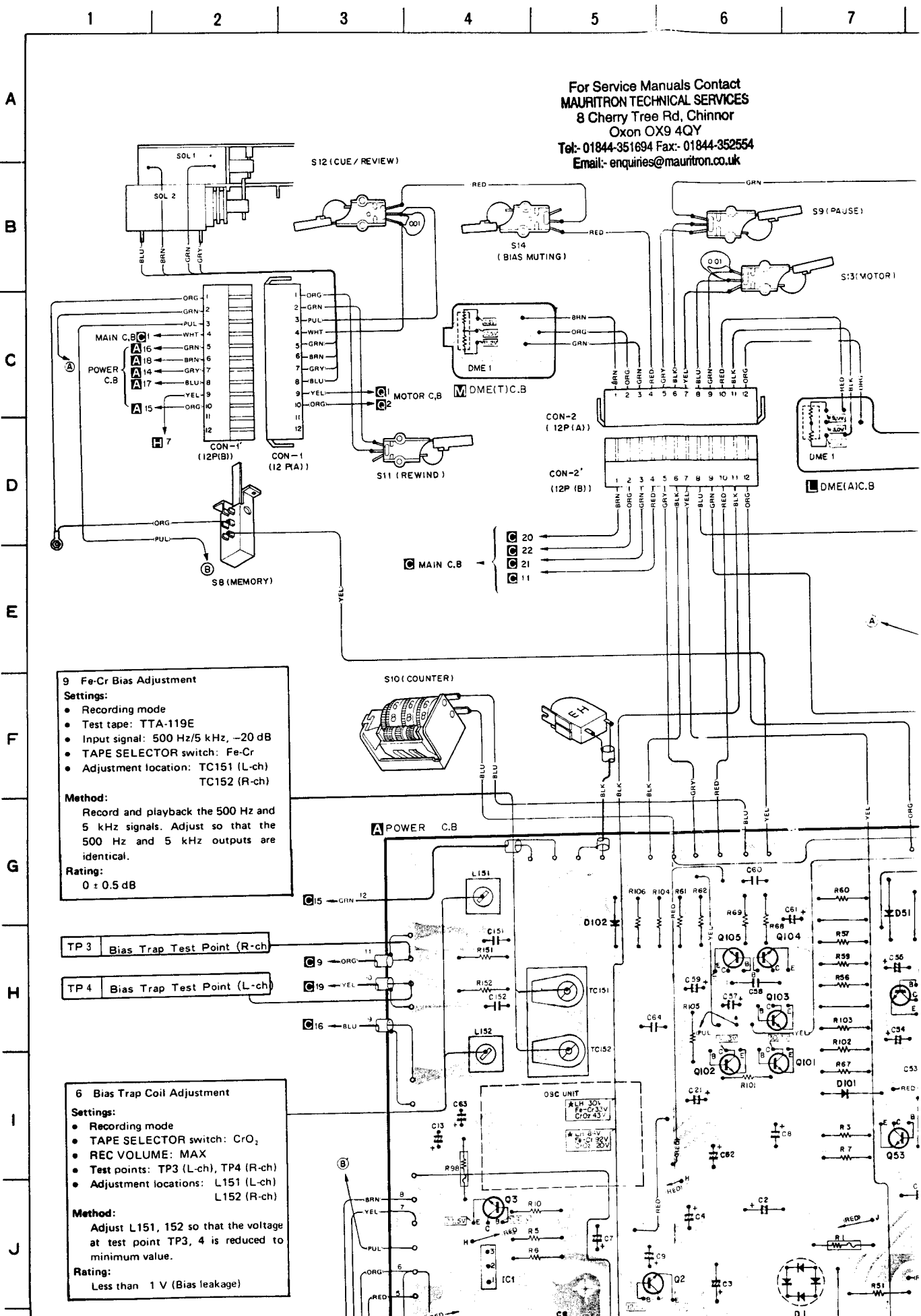
S DINJA





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WIRING-2



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9 Fe-Cr Bias Adjustment

Settings:

- Recording mode
- Test tape: TTA-119E
- Input signal: 500 Hz/5 kHz, -20 dB
- TAPE SELECTOR switch: Fe-Cr
- Adjustment location: TC151 (L-ch)
TC152 (R-ch)

Method:

Record and playback the 500 Hz and 5 kHz signals. Adjust so that the 500 Hz and 5 kHz outputs are identical.

Rating:

0 ± 0.5 dB

TP3 Bias Trap Test Point (R-ch)

TP4 Bias Trap Test Point (L-ch)

6 Bias Trap Coil Adjustment

Settings:

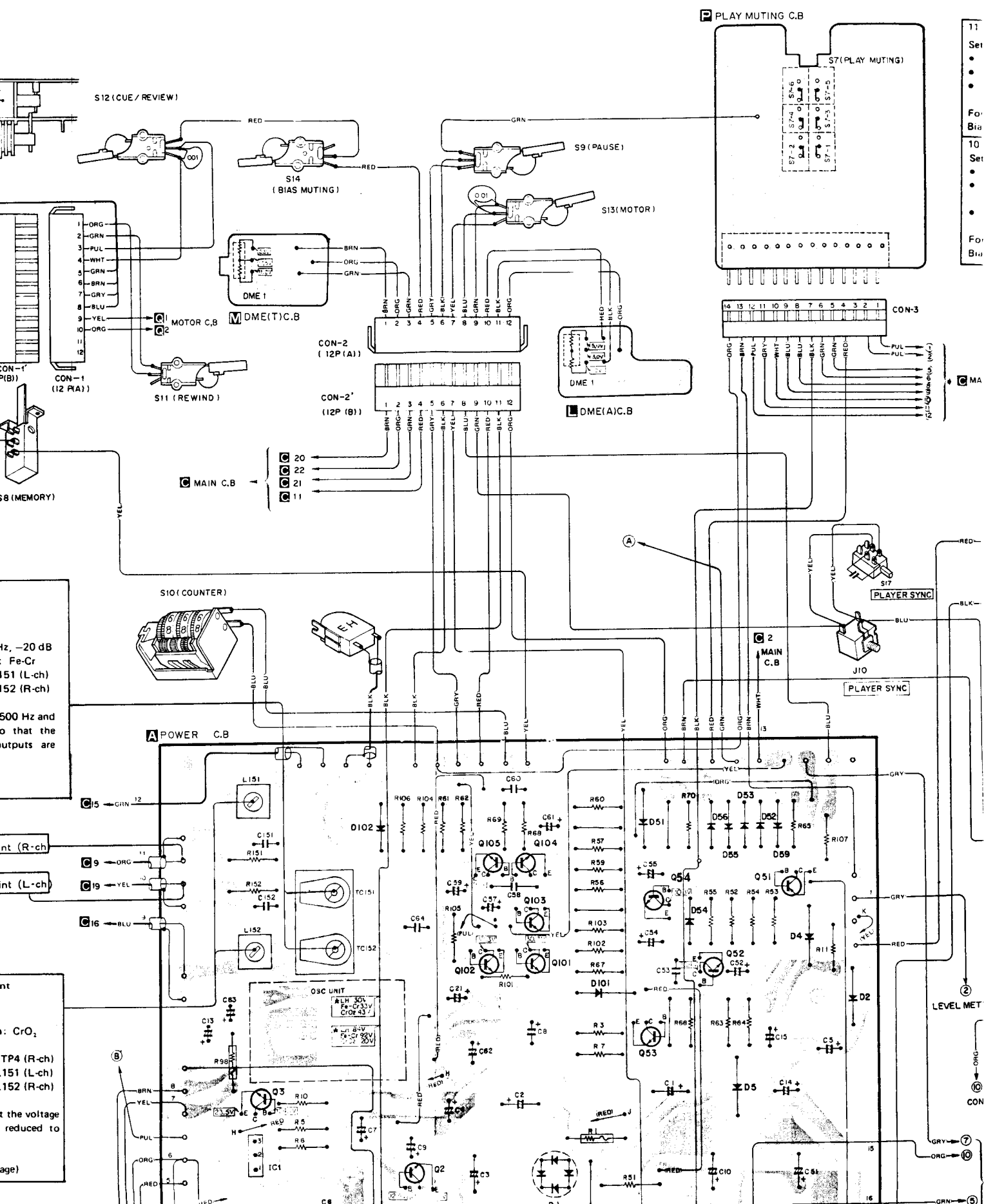
- Recording mode
- TAPE SELECTOR switch: CrO₂
- REC VOLUME: MAX
- Test points: TP3 (L-ch), TP4 (R-ch)
- Adjustment locations: L151 (L-ch)
L152 (R-ch)

Method:

Adjust L151, 152 so that the voltage at test point TP3, 4 is reduced to minimum value.

Rating:

Less than 1 V (Bias leakage)





12

13

14

15

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19

REC./PB. Sensitivity Adjustment

Fe-Cr tape

Settings:

Recording mode

Test tape: TTA-119E

Input signal: 1 kHz, 0VU

TAPE SELECTOR switch:

Fe-Cr

Adjustment locations:

SFR3 (L-ch), SFR4 (R-ch)

Method:

Play back test tape and adjust so that the output becomes 0.755 V.

Rating:

0.775 V \pm 0.3 dBSettings differ as below CrO₂ and LH2. CrO₂ tape

Settings:

Test tape: TTA-119G

TAPE SELECTOR switch: CrO₂

Adjustment locations:

SFR5 (L-ch), SFR6 (R-ch)

3. LH tape

Settings:

Test tape: TTA-119A

TAPE SELECTOR switch: LH

Adjustment locations:

SFR1 (L-ch), SFR2 (R-ch)

12 Recording Equalizer Adjustment

1. Fe-Cr tape

Settings:

Recording mode

Test tape: TTA-119E

Input signal:

500 Hz/13 kHz, -20 dB

TAPE SELECTOR switch:

Fe-Cr

Adjustment locations:

L3 (L-ch), L4 (R-ch)

Method:

Record and playback the 500 Hz and 13 kHz signals. Adjust so that the 500 Hz and 13 kHz output deviation are ± 0.5 dB.

Settings differ as below CrO₂ and LH.2. CrO₂ tape

Settings:

Test tape: TTA-119G

TAPE SELECTOR switch: CrO₂

Adjustment locations:

L5 (L-ch), L6 (R-ch)

Rating:

0 \pm 0.5 dB

-1.5 dB

3. LH tape

Settings:

Test tape: TTA-119A

TAPE SELECTOR switch: LH

Adjustment locations:

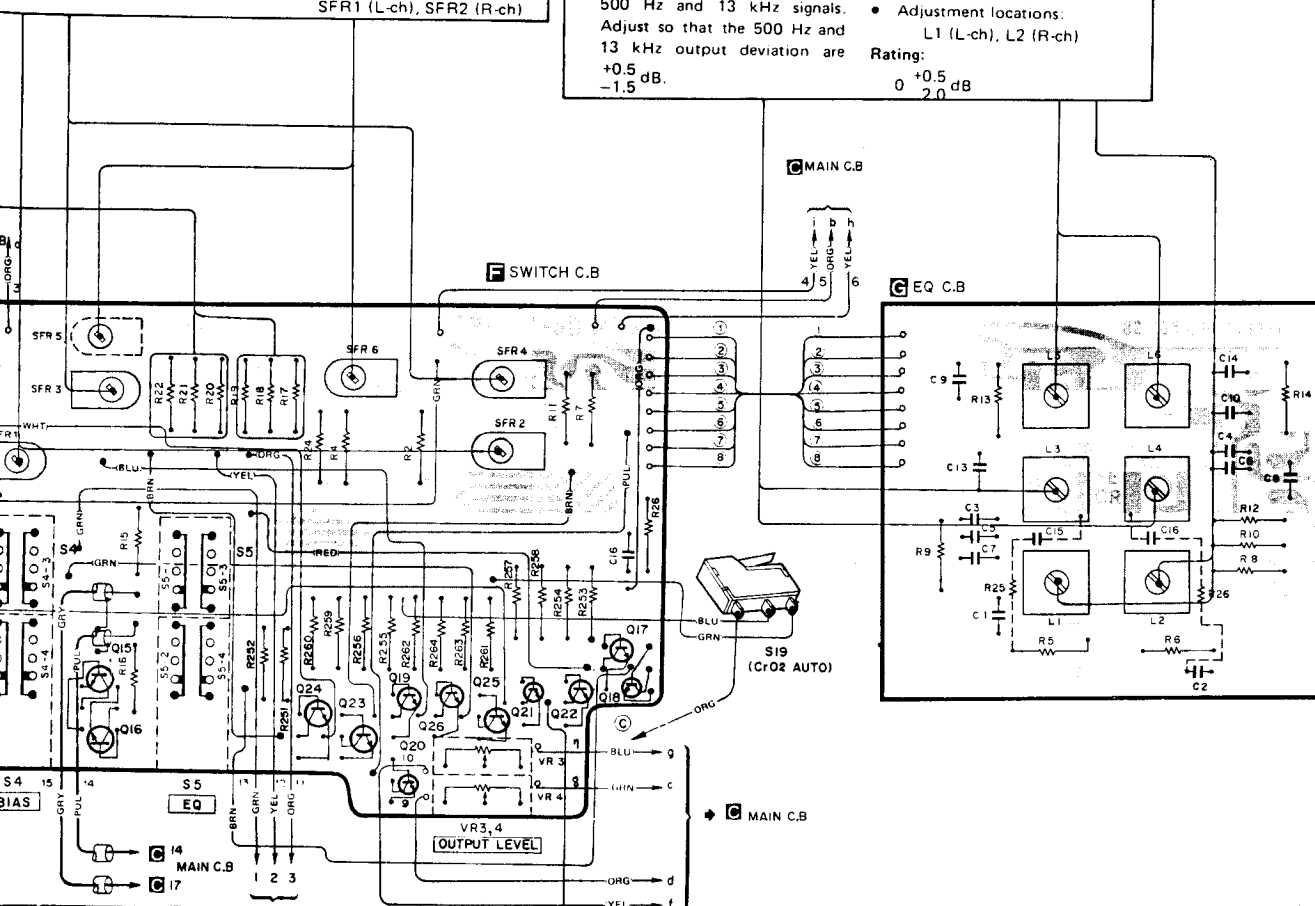
L1 (L-ch), L2 (R-ch)

Rating:

0 \pm 0.5 dB

-2.0 dB

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1 Tape Speed Adjustment

Settings:

Test tape: TTA-111

TAPE SELECTOR switch: LH

Adjustment location: SFR1

Method:

Play back the test tape and adjust so that the frequency is 3 kHz, both at the start and the end of tape winding.

7 Level Meter Adjustment

Settings:

Recording mode

Input signal: 0VU (Output = 0.775 V)

Adjustment location: SFR1 (L-ch), SFR2 (R-ch)

Method:

Adjust SFR1, 2 so that the indicator of the level meter points to 0VU.

8 9 Points Peak Indicator Adjustment

Settings:

Recording mode

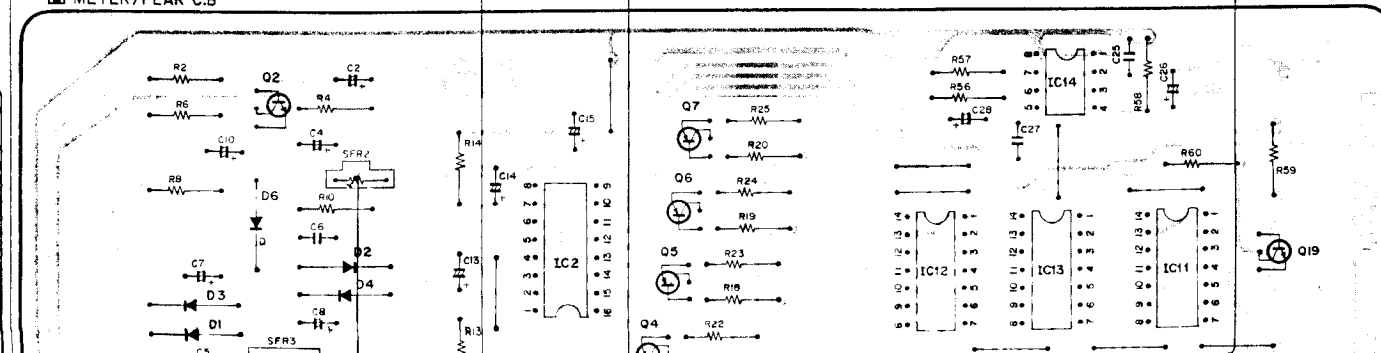
Input signal: 1 kHz, -10 dB

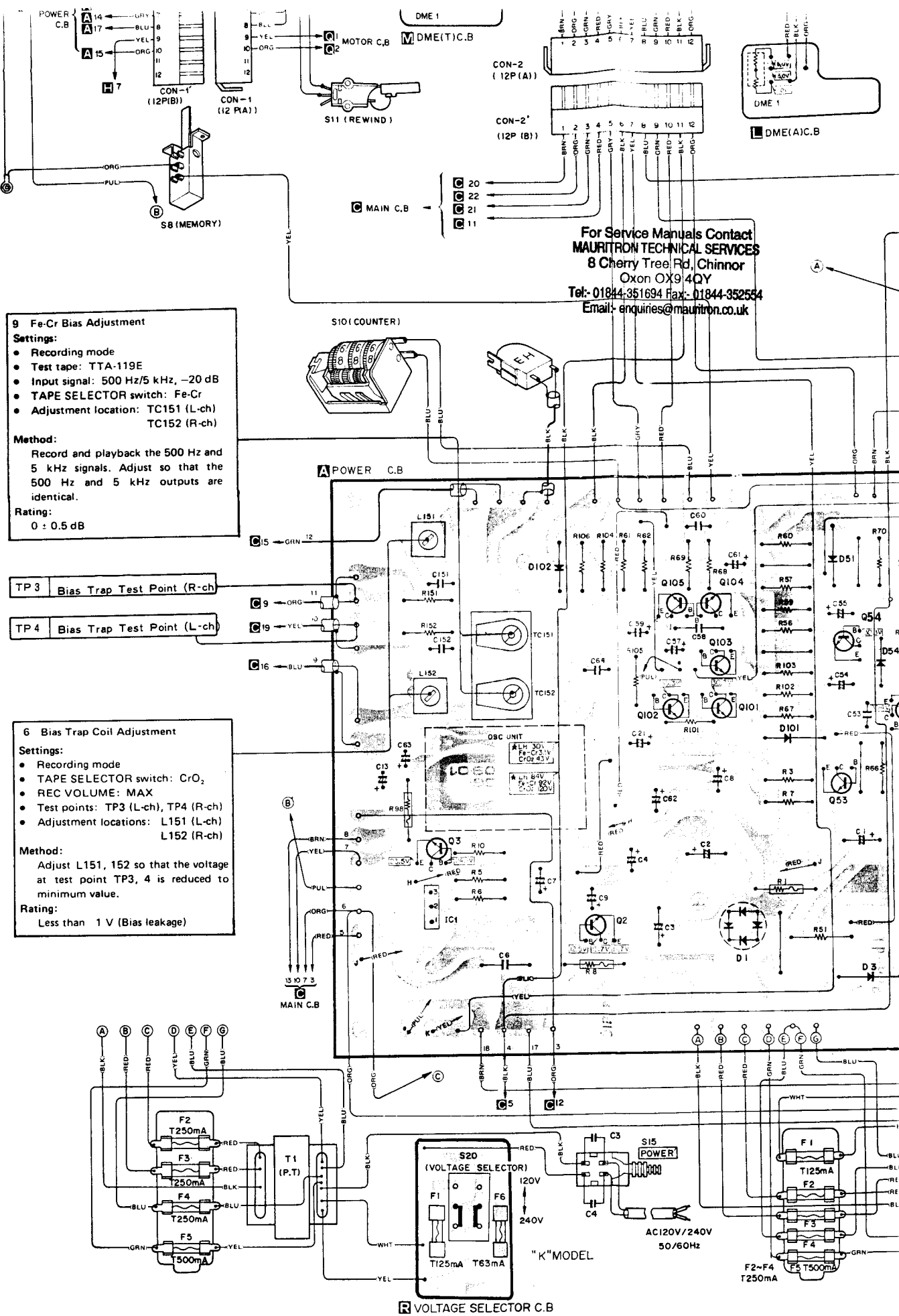
Adjustment location: SFR3

Method:

All LED lights up when the input signal is increased by 3 dB. Adjust SFR3 so that put out the red LED. (+4 dB)

METER/PEAK C.B.



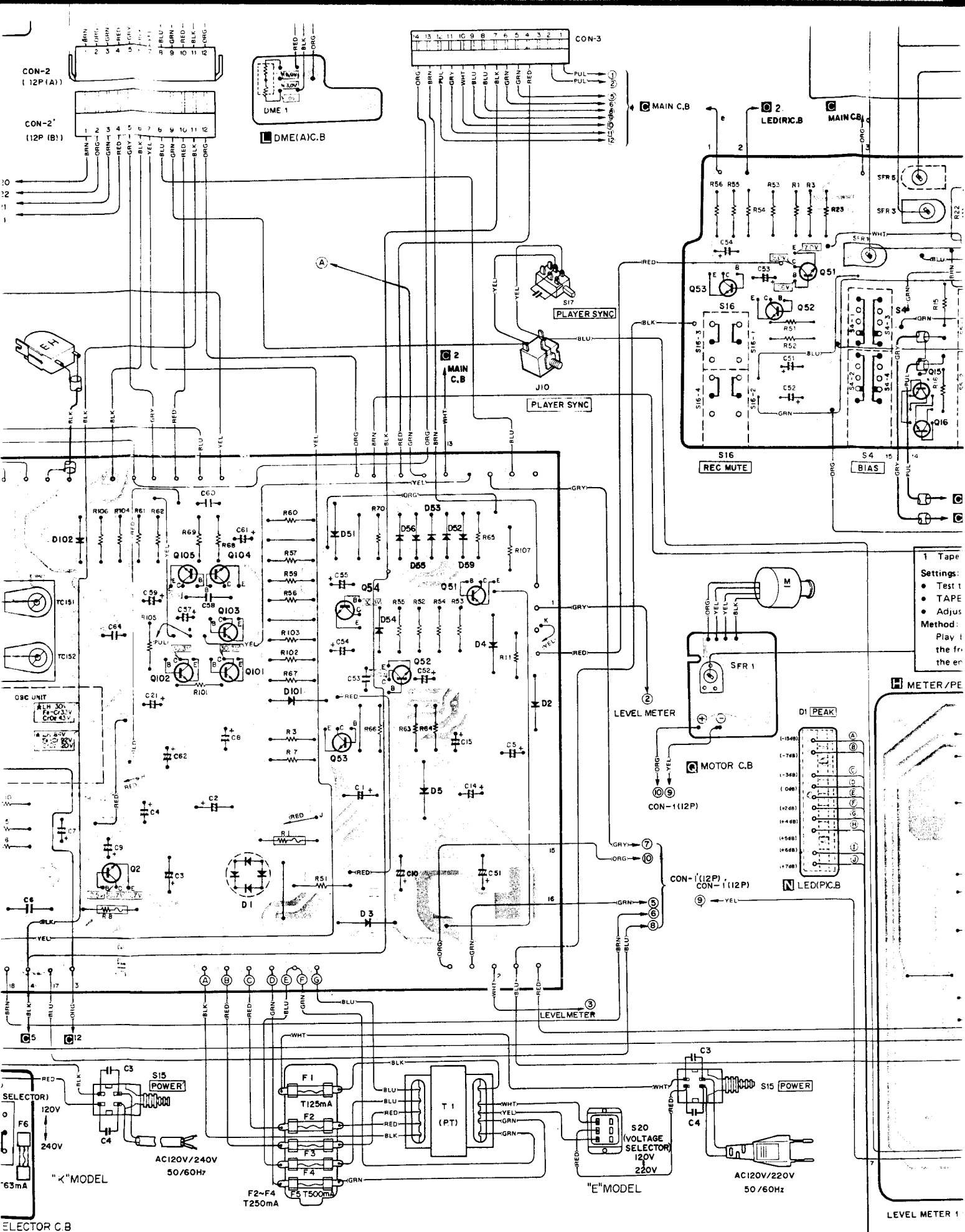


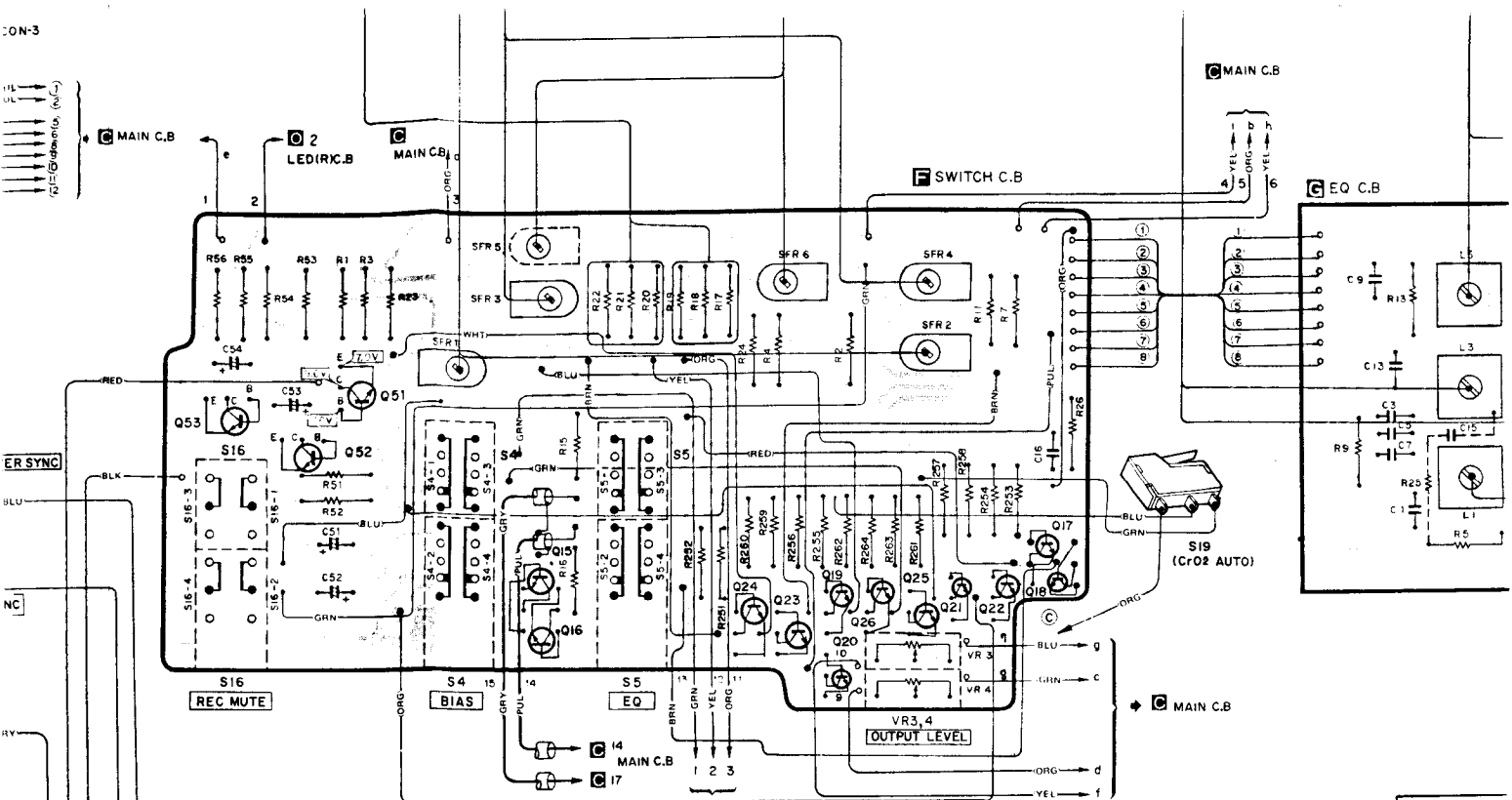
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9 Fe-Cr Bias Adjustment
Settings:
 • Recording mode
 • Test tape: TTA-119E
 • Input signal: 500 Hz/5 kHz, -20 dB
 • TAPE SELECTOR switch: Fe-Cr
 • Adjustment location: TC151 (L-ch)
 TC152 (R-ch)
Method:
 Record and playback the 500 Hz and
 5 kHz signals. Adjust so that the
 500 Hz and 5 kHz outputs are
 identical.
Rating:
 0 : 0.5 dB

TP 3 Bias Trap Test Point (R-ch)
 TP 4 Bias Trap Test Point (L-ch)

6 Bias Trap Coil Adjustment
Settings:
 • Recording mode
 • TAPE SELECTOR switch: CrO₂
 • REC VOLUME: MAX
 • Test points: TP3 (L-ch), TP4 (R-ch)
 • Adjustment locations: L151 (L-ch)
 L152 (R-ch)
Method:
 Adjust L151, 152 so that the voltage
 at test point TP3, 4 is reduced to
 minimum value.
Rating:
 Less than 1 V (Bias leakage)





1 Tape Speed Adjustment

Settings:

- Test tape: TTA-111
- TAPE SELECTOR switch: LH
- Adjustment location: SFR1

Method:

Play back the test tape and adjust so that the frequency is 3 kHz, both at the start and the end of tape winding.

7 Level Meter Adjustment

Settings:

- Recording mode
- Input signal: 0VU (Output = 0.775 V)
- Adjustment location: SFR1 (L-ch), SFR2 (R-ch)

Method:

Adjust SFR1, 2 so that the indicator of the level meter points to 0VU.

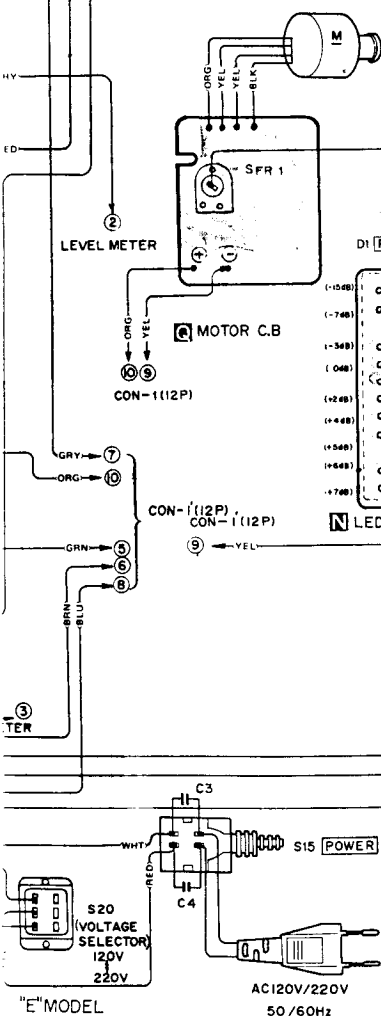
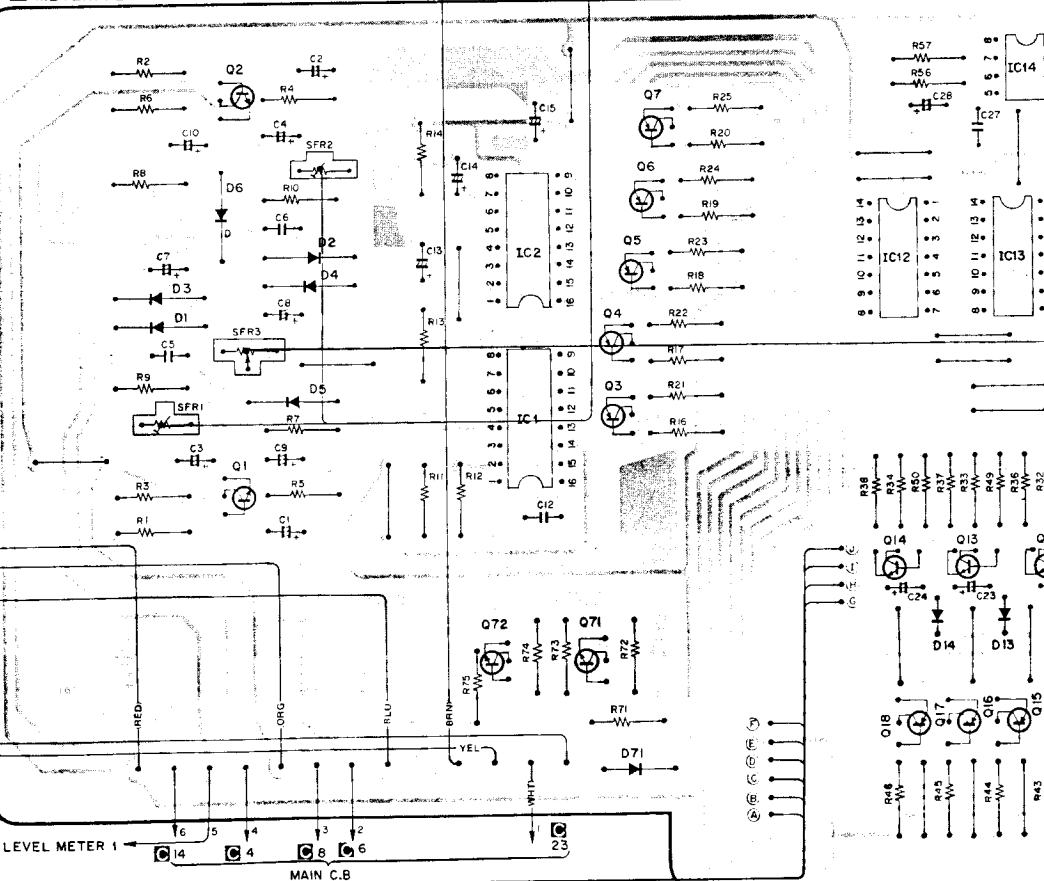
8 9 Points P

Settings:

- Recording mode
- Input signal
- Adjustment

All LED in signal is in SFR3 so that (+4 dB)

METER/PEAK C.B.



"E" MODEL

AC120V/220V

50/60Hz

