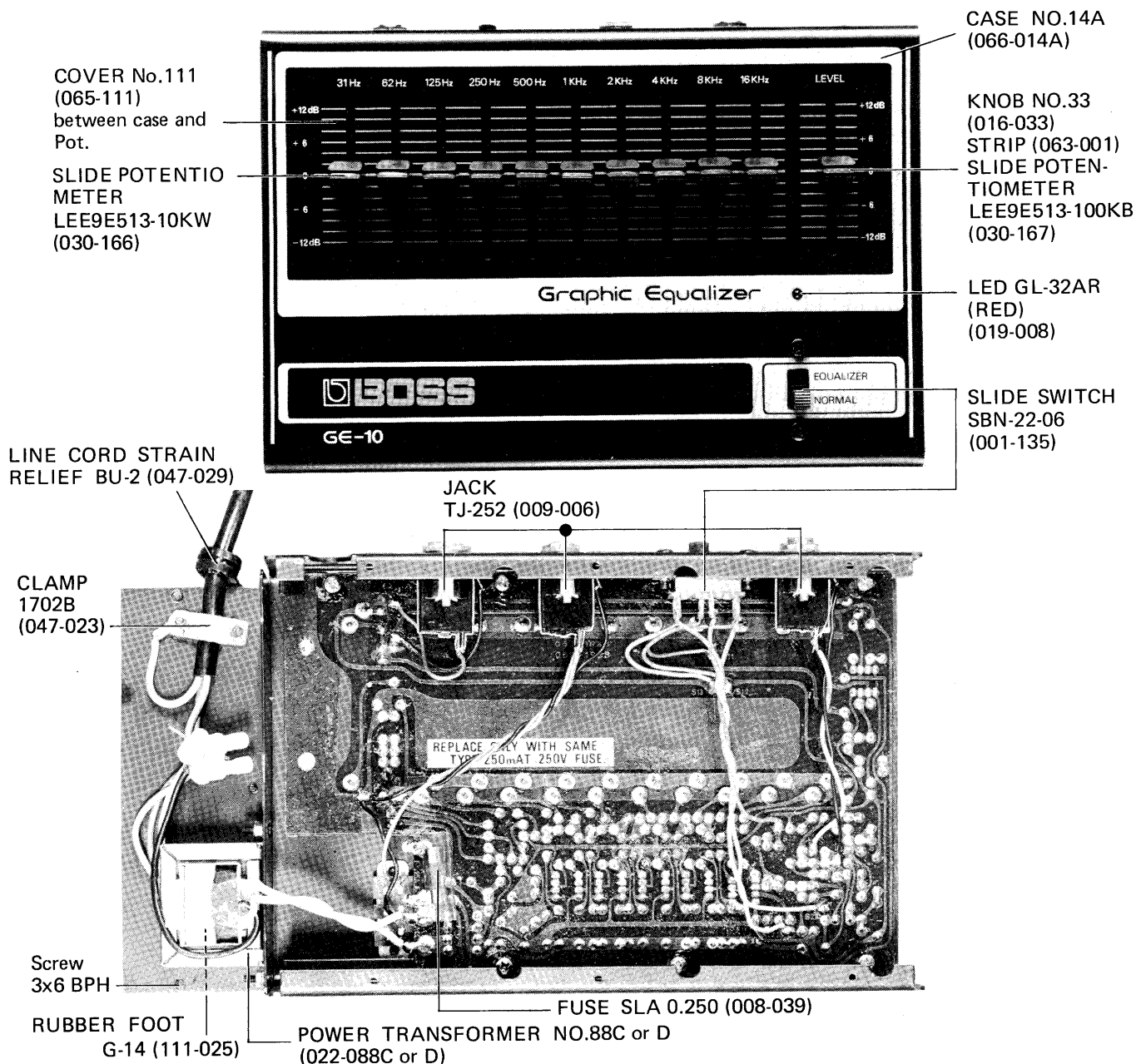


BOSS GE-10 SERVICE NOTES

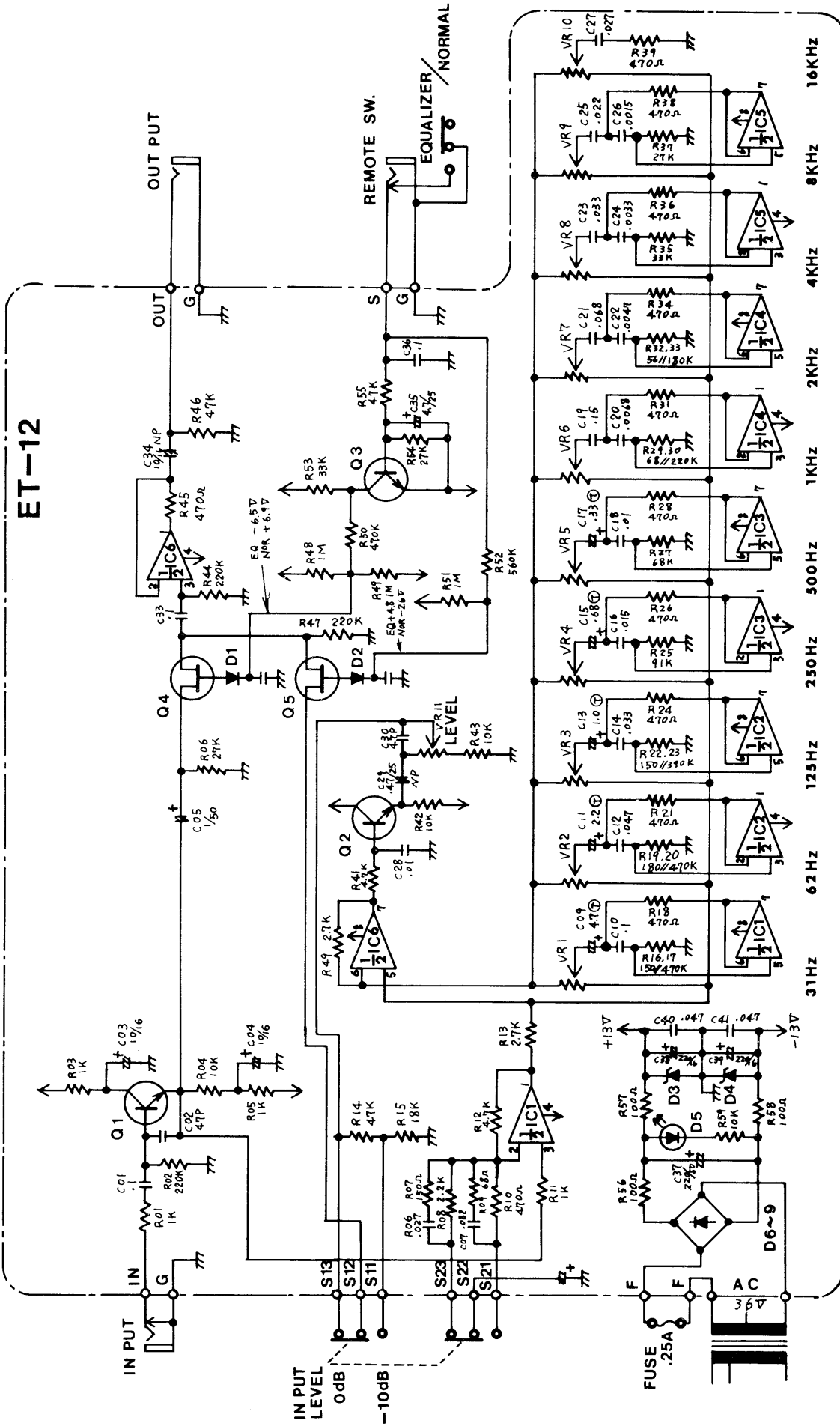
SPECIFICATIONS

Equalizer:	10 elements, ± 12 dB 31Hz, 62Hz, 125Hz, 250Hz, 500Hz, 1KHz, 2KHz, 4KHz, 8KHz, 16KHz (Slider potentiometer with center click)	Gain:	UNITY 1
Control:	Level control ± 12 dB (Slider potentiometer with center click)	S/N ratio:	Over 100dB
Switch:	Normal/Equalizer switch	Jack:	Input 1 Output 1 Remote control 1
Indicator:	Power pilot lamp	Input impedance:	220K Ω
		Output impedance:	More than 600 Ω
		Maximum output level:	+15dBm
		Power consumption:	3W
		Dimensions:	220(width)x155(depth) x78(height)mm
		Weight:	1.9Kg



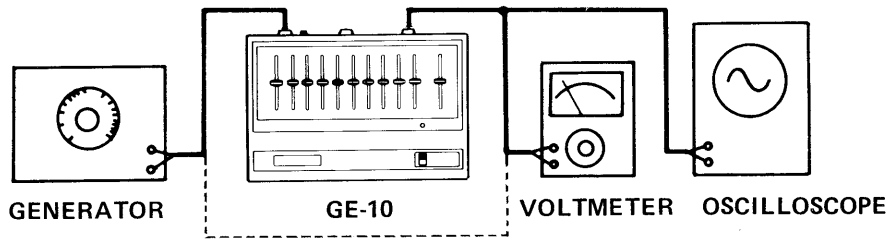
CIRCUIT DIAGRAM

ET-12



- IC 1 ~ 6 NJM 4558D
 - Q 1 ~ 3 2SC900 F or 2SC-100GR
 - Q 4, 5 2SK30A GR
 - D 1, 2 1S1555 or 1S2473
 - D 3, 4 05Z13A
 - D 5 GL-32AR
 - D 6 ~ 9 1N4003 or 1N-4002, 10D-1
 - VR 1 ~ 10 LEE9E513-10KWB
 - VR 11 LEE9E513-100KB
- Terminal block
 TT-501 D-1 2P
 (042-032)
 Fuse midget
 (008-053)
 Fuse Holder
 X-N-1153
 (012-018)
- 2407 RED
 2207 BRN
 1177 GRN
 1007 BLU
 0 WHT #88C
 (022-088C)
- YEL
 BLK
 YEL
 YEL
 #88D
 (022-088D)
- YEL
 BLK
 YEL
 YEL
 #88D
 (022-088D)
- YEL
 BLK
 YEL
 YEL
 #88D
 (022-088D)
- FUSE #88D
 50mAAT

PROCEDURE FOR CHECKING



Set all the band sliders at 0dB, and the generator for 1KHz						
	Generator output dBm	Position			Meter reading dBm	
		Input level switch	NOR/EQ switch	Level control		
1	-20	-10dB	NOR	0dB	-20	Meter reading within -20dB±1dB
2	-20	-10dB	EQ	0dB	-20	
3	-20	0dB	EQ	0dB	-20	
4	-20	0dB	EQ	-12dB ↓ +12dB	-32 ↓ -8	Total change more than 20dB
5	+8	0dB	EQ	0dB	+8	Check waveform with oscilloscope
6	+8	0dB	NOR	0dB	+8	
7	-5	-10dB	EQ	0dB	-5	
Set the generator for 31Hz Move 31Hz slider from -12dB to +12dB						
8	-20	0dB	EQ	0dB	-32 ↓ -8	Total change more than 20dB
The procedure No.8 is the same as for sliders 62Hz to 16kHz.						

NOTE:

1. On procedure No.3 the meter reading should not be changed even though input level switch is moved from -10dB of No.2 to 0dB and vice versa.
2. The sliders not being checked should be hold at 0dB.
3. Error limit is ±10% for each frequency.

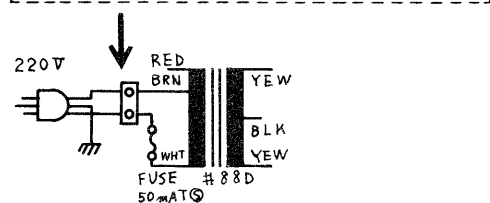
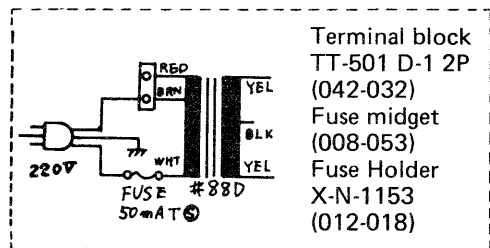
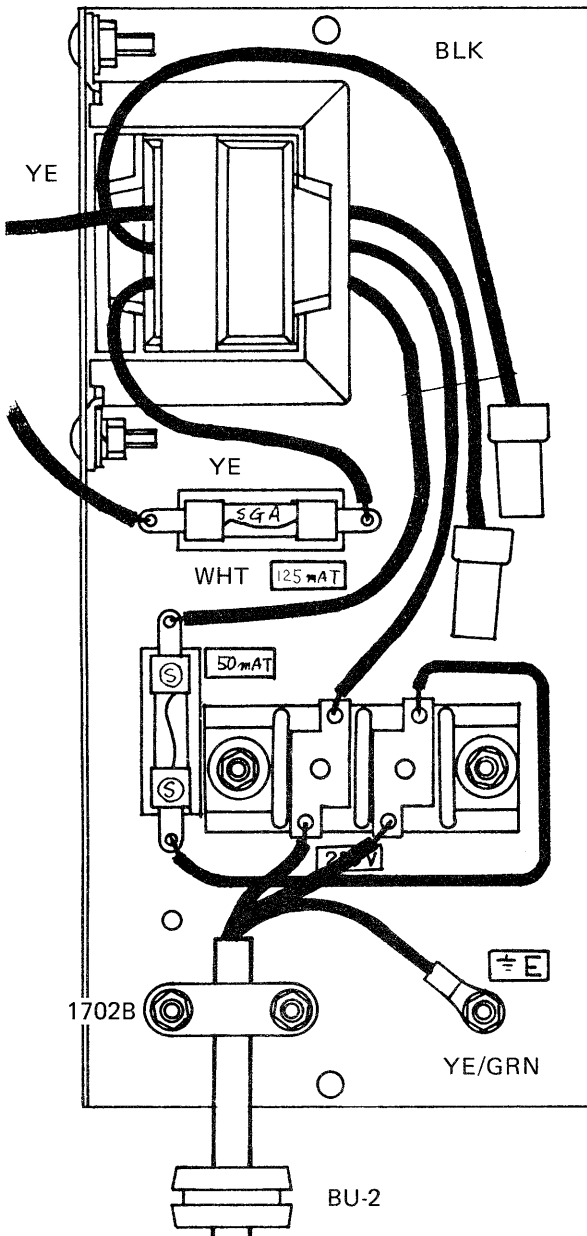
PARTS LIST

066-014A	Case No. 14A	032-193	Capacitor	0.47μF 25V	Non Polar
061-154A	Chassis No. 154A	032-191	Capacitor	10μF 16V	ECEANP16V 10
065-111	Cover No. 111				Non Polar
001-135	Slide switch SBN-22-06	032-106	Capacitor	4.7μF 35V ±10%	Tantalum
047-029	Line Cord Strain Relief BU-2	032-108	Capacitor	2.2μF 35V ±10%	Tantalum
047-023	Cord Clamp 1702B	032-109	Capacitor	1μF 35V ±10%	Tantalum
009-006	Jack TJ-252	032-096	Capacitor	0.68μF 35V ±10%	Tantalum
016-033	Knob No. 33	032-094	Capacitor	0.33μF 35V ±10%	Tantalum
063-001	Strip No. 1				
111-025	Rubber Foot G-14	037-005	Capacitor	47pF 50V K	Ceramic
151-012	PCB Assembly ET-12	008-039	FUSE	SLA0.250 midget	Pigtail
052-198B	PCB (Board only)				
020-064	IC NJM4558D	022-088C	Power Transformer	No. 88C	100V-120V
017-021	Transistor 2SC-900F or 2SC1000GR	022-088D		No. 88D	220V-240V
017-016	FET 2SK-30AGR				
019-008	LED GL-32AR (Red)				
018-022	Diode IN-4003 or IN-4002, 10D-1				
018-005	Diode 1S-1555 or 1S2473				
018-023	Diode 05Z-13A				
030-166	Slide Potentiometer LEE9E513-10KW				
030-167	Slide Potentiometer LEE9E513-100KB				
032-080	Capacitor 220μF 50V				Electrolytic
032-038	Capacitor 220μF 16V				Electrolytic
032-033	Capacitor 10μF 16V				Electrolytic
032-046	Capacitor 4.7μF 25V				Electrolytic
032-071	Capacitor 1μF 50V				Electrolytic
Resistors 1/4W, ±5% and Mylars are omitted.					

SUPPLEMENT

component layout around power transformer

(J) version



Terminal block
TT-501 D-1 2P
(042-032)
Fuse midget
(008-053)
Fuse Holder
X-N-1153
(012-018)

revision parts list

063-001	strip → 063-012
009-006	jack TJ-252 → 009-015 HLJ102-1-4
020-064	NJM (JRC) 4558D → uPC4558C
008-039	fuse pigtail (except J version)

OUTPUT CIRCUIT

alteration shown below protects IC6 against excessive voltage from output jack
serial NO. 626000 and higher

