

Service Information



Model Nakamichi 620 (Power Amplifier)
Serial No. from 4107852

Subject Modification of NF Circuit

No. NR-0023 (1/5)
Date 7/19/78

I. General:

A. Purpose:

To improve the quality of sound, NF circuit in the Power Block P.C.B. Ass'y has been modified.

Note: When above modification is adopted for the current Models, please refer to "III. Modification Procedures".

B. Modification:

Power Block P.C.B. Ass'y has been changed as follows:

(R043 (11 k Ω F) has been added. R001,016 has been changed from 10 k Ω to 100 k Ω .)

Current Parts

BA03781A Power Block P.C.B. Ass'y 2 pcs.
including;

OB07676E Power Block P.C.B.
R001 OB01888A Carbon Resistor 10 k ERD-25T J
R016 OB05878A Metal Film Resistor 10 k ERO-25CK G

New Parts

BA03781B Power Block P.C.B. Ass'y 2 pcs.
including;

OB07676F Power Block P.C.B.
R001,016 OB01889A Carbon Resistor 100 k ERD-25T J
R043 OB09128A Metal Film Resistor 11 k ERO-25CK F

C. Compatibility (of new Power Block P.C.B. Ass'y with the current Model):
Possible.

II. Parts List:

<u>Part No.</u>	<u>Description</u>
JA03107A	Power Block Ass'y(including as follows) .. 2 pcs.
BA03781B	Power Block P.C.B. Ass'y
BA03780A	Power Transistor P.C.B. Ass'y
OE00231A	Screw M2.6x8 Philips Pan Head FT (4 pcs.)
OE00026A	Washer 2.6mm Spring (4 pcs.)

<u>Schematic Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	BA03781B	Power Block P.C.B. Ass'y
	OB07676F	Power Block P.C.B.
Q001,004,005	OB06078A	Transistor 2SC1400
Q002,003,006	OB06074A	Transistor 2SA750 (1)
Q007	OB06096A	Transistor 2SB536 (K,L,M)
Q008	OB06097A	Transistor 2SD381 (K,L,M)
Q013	OB06098A	Transistor 2SB630 (Q,R,S)
Q014	OB06099A	Transistor 2SD610 (Q,R,S)
Q015	OB06100A	Transistor 2SC945A (K,P,Q)
Q016	OB06013A	Transistor 2SA733
D001,002,003 004,005,006 007,008,009 010,011,012	OB06091A	Silicon Diode FDH-999
R001,016	OB01889A	Carbon Resistor 100K ERD-25T J
R002	OB05614A	Carbon Resistor 1.8K ERD-25T J
R003,004	OB05623A	Carbon Resistor 1.2K ERD-25T J
R005	OB05631A	Carbon Resistor 82 ERD-25T J
R006	OB05641A	Carbon Resistor 47K ERD-25T J
R007	OB05743A	Carbon Resistor 27K ERD-25T J
R008,012	OB05575A	Carbon Resistor 560 ERD-25T J
R009	OB01888A	Carbon Resistor 10K ERD-25T J
R010	OB01854A	Carbon Resistor 39K ERD-25T J
R011	OB01683A	Carbon Resistor 15K ERD-25T J
R013,014	OB05890A	Carbon Resistor 56 ERD-25T J
R015	OB05877A	Metal Film Resistor 360 ERO-25CK G
R017	OB05875A	Carbon Resistor 27 ERD-25T J
R018,019	OB05509A	Carbon Resistor 33K ERD-25T J
R020,025	OB01933A	Carbon Resistor 220 ERD-25T J
R021,024	OB05876A	Carbon Resistor 51K ERD-25T J
R022,026,030 031	OB05579A	Carbon Resistor 22 ERD-25T J
R023,027	OB01679A	Carbon Resistor 100 ERD-25T J
R028,029	OB05615A	Carbon Resistor 22K ERD-25T J
R032,037	OB05580A	Carbon Resistor 2.2 ERD-25T J
R033,034,035 036	OB01857A	Carbon Resistor 1K ERD-25T J
R038,039	OB05871A	Cement Resistor 0.22 5W
R040,041	OB05891A	Carbon Resistor 4.7 ERD-25T J
R042	OB05698A	Carbon Resistor 1.5K ERD-25T J
R043	OB09128A	Metal Film Resistor 11K ERO-25CK F
C001	OB05864A	Electrolytic Capacitor 47 μ 16V M(MS)
C002	OB05893A	Ceramic Capacitor 680P 50V K
C003	OB05880A	Ceramic Capacitor 470P 50V K
C004	OB05798A	Ceramic Capacitor 10P 50V K
C005	OB05806A	Ceramic Capacitor 22P 50V K
C006,016,017	OB05881A	Ceramic Capacitor 3300P 50V
C007,014,015	OB05882A	Ceramic Capacitor 0.022 μ 50V
C008	OB05852A	Electrolytic Capacitor 1000 μ 10V
C010,011	OB05883A	Ceramic Capacitor 0.047 μ 100V
C013	OB05892A	Ceramic Capacitor 100P 50V K
	OE00566A	Screw M3x6 Phillips Pan Head (4 pcs.)
	OE00718A	Nut Hex. M3 (4 pcs.)
	OJ03505A	Washer 3mm (Fiber) (2 pcs.)

III. Modification Procedures for the Current Models:

A. Parts removed:

R001	OB01888A	Carbon Resistor	10 k ERD-25T J	2 pcs.
R016	OB05878A	Metal Film Resistor	10 k ERO-25CK G	2 pcs.

B. Parts required:

R001,016	OB01889A	Carbon Resistor	100 k ERD-25T J	4 pcs.
R043	OB09128A	Metal Film Resistor	11 k ERO-25CK F	2 pcs.

C. Modification procedures:

Refer to Fig. 1, mounting diagram.

1. Disassemble the Cabinet Ass'y by removing 5 screws.
2. Disassemble the 2 Power Block Assemblies by removing 3 screws for each.
3. Check to insure that the R015 (Metal Film Resistor 360 Ω G) and C008 (Electrolytic Capacitor 1000 μ F 10 V) are mounted as shown in the figure (if the position of R015 and C008 is reversed, correct its position).
4. Remove R001,016 10 k and replace with 100 k.
5. Mount R043 from the dip side as shown in the figure.
6. Assemble the Power Block Assemblies by fastening 3 screws for each.
7. Check to insure the performance of the N-620.
8. Assemble the Cabinet Ass'y by fastening 5 screws.

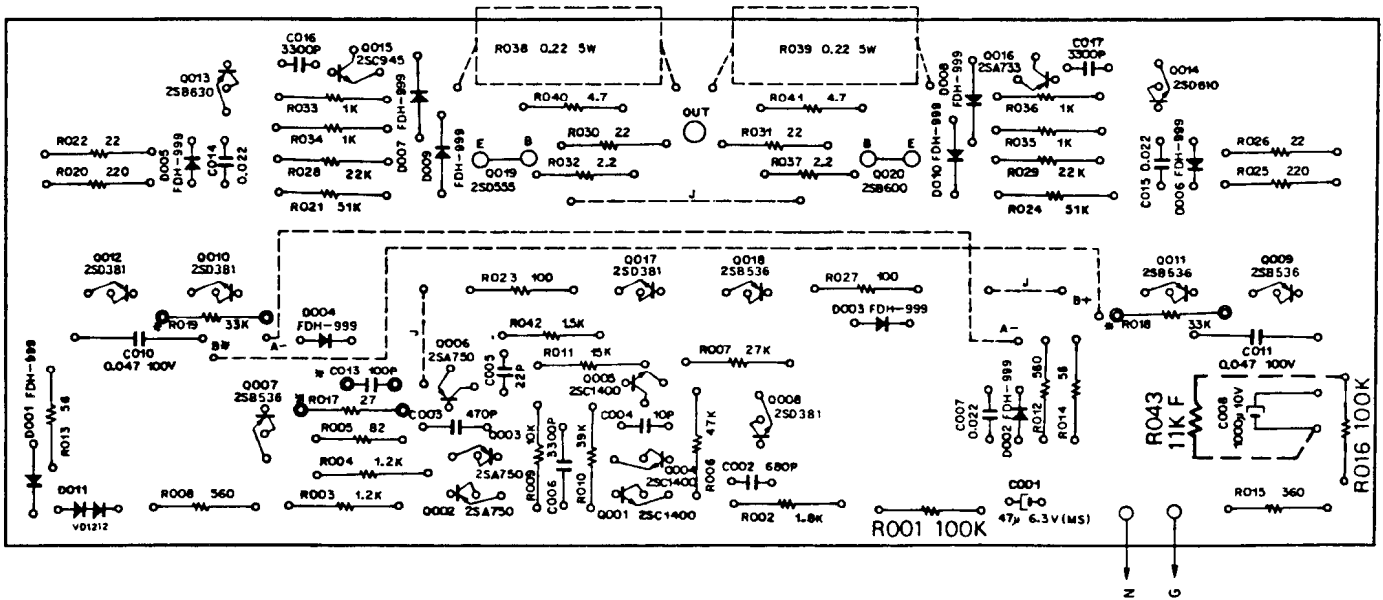


Fig. 1

IV. Modified Mounting Diagram (Power Block P.C.B. Ass'y):

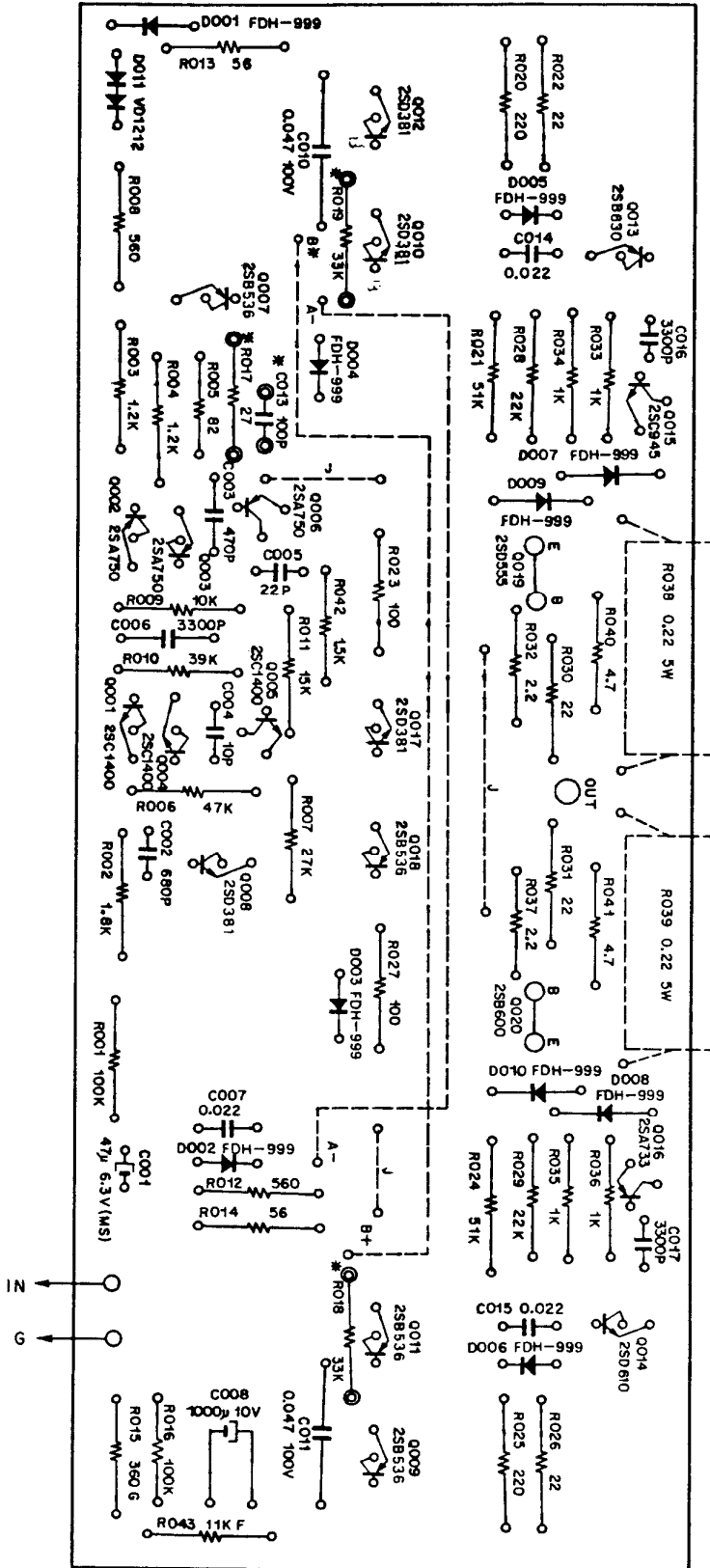


Fig. 2

Modified Schematic Diagram:

