SERVICE NOTE

620A-4A

MODELS 618B AND 620A SHF SIGNAL GENERATORS
50 TO 400 CYCLE FAN KIT

The hp Model 618B and 620A SHF Signal Generators can be modified to operate on 50 to 400 cycle ac power lines by installing an hp stock number 620A-95A fan modification kit.

In hp Model 618B instruments, serial 385 and below, and in hp Model 620A instruments, serial 241 and below, it is necessary to first install Modification Kit 618B-95D, less motor and fan blade. This kit provides a mounting bracket assembly and larger cabinet, as outlined in Service Notes 618B-5.

COMPONENTS FURNISHED IN THE 620A-95A FAN KIT

Quantity	Description	hp Stock No.
1	Motor and Capacitor Assembly with Plug . . . . . Replacement parts in above assembly; 50 to 400 cps fan motor (3140-0015). 1.0 μf, 400 vdcw, fixed capacitor (0160-0035)	620A-95A-97
1	Fan Blade	3160-0017
2	Motor mounting brackets . .	620A-95A-1
1	Motor mounting plate	620A-95A-2
3	6-32 x 5/16 in. machine screw w/lockwasher.	2390-0007
1	6-32 x 5/16 in. hex nut w/lockwasher.	2420-0001
2	8-32 x 3/8 in. machine screw w/lockwasher.	2550-0007
2	8-32 x 5/16 in. hex nut w/lockwasher.	2580-0003
1	Service Notes	620A-4
1	Service Notes	618B-5

INSTALLATION PROCEDURE

1) Disconnect power and remove cabinet.

2) If your instrument has been modified, or is of a later serial number, it will have a 7 x 7 in. air filter mounted on the rear of the cabinet, and a blower on the rear of the instrument. If so, proceed with step 3.

If your 618B or 620A does not have a filter on rear of cabinet or fan on rear of instrument, first install Modification Kit 618B-95D (less motor and fan) as outlined in Service Notes 618B-5. Then proceed with step 3.

3) Disconnect and remove original motor and mounting straps. Note method of mounting and save strap mounting hardware.

4) Mount the two 620A-95A-1 brackets furnished in the kit in place of the original brackets using the original hardware.

5) Attach the 620A-95A-2 motor mounting plate to the two brackets installed in the previous step. Use two 8-32 in. machine screws and nuts supplied in the kit. The odd hole in the plate will be used in a later step to mount the capacitor and solder lug assembly that is attached to the motor.

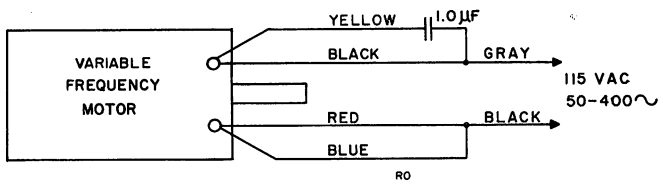
6) Mount the new fan motor on the motor mounting plate. Use the three 6-32 x 5/16 in. machine screws supplied in the kit. Do not use screws that are any longer as they may damage the motor. In some instruments the terminals of control R338 will be shorted unless the mounting nut for the control is temporarily loosened and the control turned to face the terminals away from the motor. Rotating R338 in this manner will also provide motor clearance.

7) Mount the capacitor and solder lug assembly in the remaining hole in the motor mounting plate. A 6-32 x 5/16 in. hex nut is supplied for this purpose.

8) Install the fan blade with the collar toward the motor and the setscrews on the two flat surfaces of the shaft. Check for fan blade clearance before turning the instrument on.

9) Plug fan motor connector into socket vacated by original fan connector. Turn instrument on and check that air is drawn into the fan hole in the rear of the instrument. Connections for the fan motor are shown in the following illustration.

10) Replace instrument cabinet and check for proper operation.



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