

KS-20392 SUB-CYCLE RINGING GENERATOR IDENTIFICATION, INSTALLATION, AND CONNECTIONS

1. GENERAL

1.01 The KS-20392 sub-cycle ringing generator is used to provide emergency ringing power during commercial power failures.

1.02 The ringing generator produces a 94- to 101-volt 20-Hz output from no load to full load with an input voltage of 44 to 52 volts dc. The ringing frequency variation is held to ± 1 Hz over the full input voltage and load range.

1.03 The ringing generator is self-protected against overload. The unit will not be damaged due to a heavy overload or a short circuit across its output.

1.04 The ringing generator has an input circuit consisting of an input fuse and an input filter that prevents noise from being fed back from the generator to the battery.

1.05 The ringing generator is made up of an input filter, voltage regulator, oscillator, power amplifier stage, ferroresonant regulator, and a ringback tone generator.

1.06 The ringing generator is designed for mounting in a 19-inch relay rack. However, flanges are provided so that the unit can be mounted in a 23-inch relay rack.

2. IDENTIFICATION

2.01 The ringing generator requires 7 inches of panel space and has a depth of 7 inches. When the generator is in the mounted position, the unit extends 4-3/4 inches from the mounting rack to the front of the cover.

3. INSTALLATION

3.01 Mount the ringing generator on the 19-inch relay rack.

Caution: When the ringing generator is in the mounted position, the vent openings at the top and the bottom of the generator cabinet must not be obstructed. The temperature of the air entering the cabinet shall not exceed 50°C(122°F). If the unit is mounted in a relay rack with other heat producing equipment, it may be necessary to provide a ventilation space above and below the cabinet to ensure that the maximum allowable ambient temperature is not exceeded. When the unit is operated at full load in a high ambient temperature location, a space of 1-3/4 inches above and below the cabinet is recommended.

4. CONNECTIONS

4.01 The ringing generator is provided with a polarized plug base and connector body for connections to the input, and a receptacle and polarized plug for the output connection.

4.02 Connect the ringing generator load between terminals 1 and 2 of J2.

4.03 Being certain to observe the correct polarities, connect the dc input voltage of 44 to 52 volts to J1.

4.04 The schematic diagram is attached to the inside of the cover and is also shown on SD-81966-01.