



# Rex Power Magnetics

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## INSTALLATION, OPERATION AND MAINTANCE MANUAL - R.C SNUBBERS

### **1. GENERAL:**

Your Snubber is designed for safe, cool, and quiet operation for a long time with minimum maintenance, provided certain guidelines are observed during installation.

**Warning - DANGER:** Power must be off before working inside a snubber. Capacitors inside the snubber may remain charged after de-energizing and should be safely checked to make sure they are discharged before working inside a snubber.

### **2. INSPECTION UPON RECEIPT:**

Upon receipt of R.C snubber, check against the shipping list. If any damage is discovered, file a claim immediately with the carrier.

### **3. HANDLING:**

The mounting structure may not be suitable skidding or rolling, depending on the size of the enclosure. Such units should be left on the skid for handling.

**CAUTION** – No snubber should be laid on its side or end for any reason. The assembly is designed to handle the normal weight and stress from shipment and usage. It is not designed to accept stresses from tipping or similar actions. Damage beyond repair can occur if snubber is turned on its side or end.

### **4. STORAGE:**

Snubbers which are not installed and energized immediately should be stored in a dry clean space having a uniform temperature to prevent condensation.

### **5. INSTALLATION:**

Enclosure Type: Type 1 (NEMA 1) for indoor application

Location: The snubber should be installed adjacent to the switch gear or transformer. Avoid long cables.

Sound Level: Snubbers are generally quiet in their operation

Mounting Brackets: Snubber should be floor mounted with the mounting holes provided

**CAUTION** - Installation should be performed only by experienced and qualified personnel.

**5.1 Connections:** Refer to the nameplate or the enclosed connection diagram for the primary and secondary voltages, tap arrangements, phases, and ratings at each tap. Do not make any connections other than those shown on the diagrams supplied. To ensure good electrical connections, the following torque values must be adhered to:

¼-20 Bolt – 7 ft. lb.

3/8-16 Bolt – 20 ft. lb.

½ -13 Bolt – 30 ft. lb.

**CAUTION** - Before energizing, check all bolted connections for tightness to ensure good electrical connections.

**5.2. Grounding:** A ground stud or ground bus is provided. Follow the local electrical codes for grounding the snubber.

**5.3. Glow Tubes:** If the snubber is supplied with glow tubes which are shipped loose, they must be installed on the clips provided after mounting. One end of each glow tube must be attached to each of the clips provided on each phase.

**5.4. Monitoring Circuit:** If the snubber is supplied with a monitoring circuit, a 120v control power supply must be wired to the monitor. See wiring schematic for details. Output alarm contacts should be wired to any remote monitoring circuits.

**6. OPERATION:** To maintain safe operating conditions, do not remove panels or open access doors while the snubber is energized.

### **7. MAINTENANCE:**

**7.1 Inspection:** Inspection should be made at regular intervals:

a) - Dirt or dust accumulation on the top and sides of enclosure.

b) - Loose connections.

c) - Signs of overheating and of voltage creepage over insulating surfaces as evidenced by tracking or carbonization.

d) - If glow tubes are supplied, check regularly to make sure all three phases are energized. If any of the glow tubes are not on, one or more of the snubber components may be damaged and the snubber may no longer providing the intended protection. The snubber should be de-energized and inspected.

e) – If a monitoring circuit is supplied, check regularly to make sure that none of the alarm lights or signals are on, which would indicate either a fuse or capacitor failure. Regularly checking the operating of the lights is important to ensure they are operating.

**7.2 Cleaning:** Dust and dirt should be removed from the surface of the enclosure.

**8. Warranty:** Rex Power Magnetics warrants to its customers that the products delivered conform to the specifications and are free from defects in material and workmanship for a period of one year. For additional detail, consult factory or visit website.

IOMM-RCSNUBB-EN\_RC Snubber Installation, Operation & Maintenance Manual (Sept 2019)