

## Service Instructions for TENV/IP54 Electromagnetic Super-Mod® and Tor-ac<sup>®</sup> Super-Mod® Parts Kits Series 210/250

### Important

Please read these instructions carefully before installing, operating, or servicing your Stearns clutch, brake or clutch-brake. Failure to comply with these instructions could cause injury to personnel and/or damage to property if the unit is installed or operated incorrectly. For definition of limited warranty/liability, contact Rexnord Industries, LLC, Stearns Division, 5150 S. International Dr., Cudahy, Wisconsin 53110, (414) 272-1100.

OEM's and subsystem suppliers, please forward these instructions with your components to the final user.

### Caution

1. Servicing shall be in compliance with applicable local safety codes including Occupational Safety and Health Act (OSHA). All wiring and electrical connections must comply with the National Electric Code (NEC) and local electric codes in effect.
2. To prevent an electrical hazard, disconnect power source before working on the clutch, brake or clutch-brake. If power disconnect point is out of sight, lock disconnect in the *off* position and tag to prevent accidental application of power.
3. Be careful when touching the exterior of an operating unit. Allow sufficient time to cool before disassembly. Surface may be hot enough to be painful or cause injury.

### Tor-ac<sup>®</sup> Kits

**Note:** For use with 90-100 Vdc wound coils only.

4-1-20194-00K (115V)  
4-1-20290-00K (230V)

Description of Parts Included in Kit	Quantity per kit
Tor-ac module	1
Two-sided tape	1
Wire nuts	4

1. Disconnect and lockout power to the Super-Mod unit.
2. Remove conduit box cover and separate the incoming power leads to the coil(s).
3. Connect Tor-ac module as shown in Figure 1.

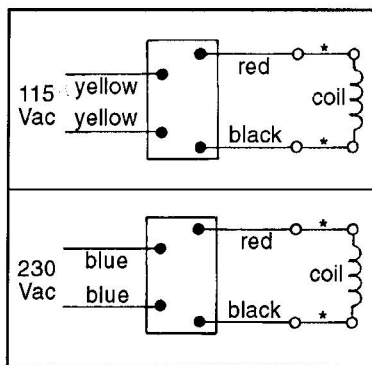


Figure 1

\* Clutch coil lead wires are black.  
Brake coil lead wires are red.

- Note A:** Polarity of wiring is immaterial.
- Note B:** Refer to product installation sheet for control wiring and fuse sizing information.
4. Use two-sided tape to secure Tor-ac module to the inside wall of the conduit box.
  5. Reattach the conduit box cover making sure not to pinch wiring.

### Base Kit

5-78-0001-30

Description of Parts Included in Kit	Quantity per kit
Base Mounting bolts	4

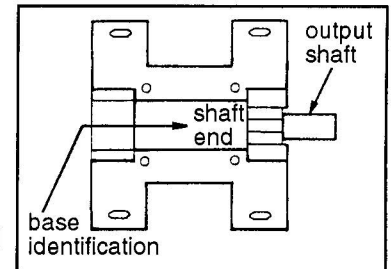


Figure 2

1. Remove four plug (allen) screws from the bottom of the Super-Mod unit (side opposite the conduit box).
2. Position base against flat surface of Super-Mod housing with the shaft end identification toward the output shaft as shown in Figure 2.

3. Secure the base to the Super-Mod housing using the 4 mounting bolts included with the kit. Tighten to 20 lb-ft.

**Note:** Refer to product instruction sheet for proper assembly of Super-Mod unit to motor and output product.

### Input Adapter Kit

5-78-0000-23  
5-78-0000-24

Description of Parts Included in Kit	Qty. per kit
Adapter plate assembly	1

1. Make sure the drive hub set screws are backed out sufficiently to allow shaft clearance.  
**Note A:** The drive hub set screws are accessible through the access hole on top of the SM1020/1040 unit and through the conduit box on the SM-20 unit. Replace screw plug after tightening the set screws.
2. Position and align the adapter plate to allow it to freely slide into the drive hub. (Machined surface toward Super-Mod unit.) Slide the adapter plate shaft into the drive hub until the C-face flanges meet.  
**Note B:** If adapter plate shaft does not slide freely into the drive hub, polish the shaft and/or keyway until smooth slip fit is achieved.
3. After mating the C-face flanges, insert the four tie bolts (supplied with SM unit) and alternately finger tighten, then torque to 51 lb-ft.
4. Tighten the drive hub set screws, using the proper size hex wrench (wrench provided with SM unit) to 150 lb-in.  
**Note C:** Set screw alignment can be accomplished by rotating the keyed adapter shaft and drive hub. A flashlight will help in finding the two set screws as the input shaft is rotated. Be sure the hex wrench (allen key) is fully inserted into the set screws during tightening.
5. Reinstall set screw access plug.  
**Note D:** The two shaft extensions provide the means of mechanically connecting the unit to the drive and driven elements in the system, by means of direct coupling, sheaves, sprockets, or other pulley and belt combinations. When using a coupling, follow manufacturer's alignment procedures.