

Repair Kit Instructions for 321-8 Series AAB Spring-Set Brake (48C mounting)

Important

Please read these instructions carefully before installing, operating, or servicing your Stearns Brake. Failure to comply with these instructions could cause injury to personnel and/or damage to property if the brake is installed or operated incorrectly. For definition of limited warranty/liability, contact Rexnord Industries, LLC, Stearns Division, 5150 S. International Dr., Cudahy, WI 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 made 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 brake. If power disconnect point is out of sight, lock disconnect in the *off* position and tag to prevent accidental application of power.

3. Secure any load being held by the brake before removing brake from motor. If brake is equipped with a manual release, engage the release before removing brake from motor.
4. Heat developed during normal operation (135° C) of the brake may be hot enough to be painful or cause injury. Be careful when touching exterior surfaces. Allow sufficient time for the brake to cool before servicing.
5. After usage, the brake interior will contain burnt and degraded friction material dust. This dust must be removed before servicing.

DO NOT BLOW OFF DUST using an air hose. It is important to avoid dispersing dust into the air or inhaling it, as this may be dangerous to your health.

- a) Wear a filtered mask or a respirator while removing dust from the inside of a brake.
- b) Use a vacuum cleaner or a soft brush to remove dust from the brake. When brushing, avoid causing the dust to become airborne. Collect the dust in a container, such as a bag, which can be sealed off.

Refer to Installation & Service Instruction, *Sheet 8-078-970-00*, for complete motor mounting and wiring instructions.

Replacement procedures for pressure plate and friction disc.

1. Disconnect coil leads from power source.
2. Remove four brake mounting screws (*Fig. 1*), and slide brake off drive hub (10).
3. Remove three adapter plate screws (8S).
- Replace adapter plate and/or friction disc. (Friction discs with indent must face toward the magbody side of the brake; see *Fig. 3*.)

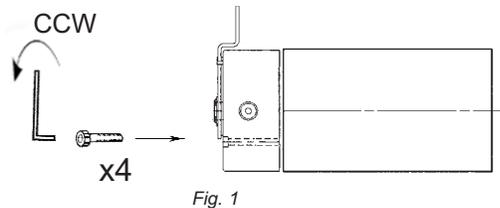


Fig. 1

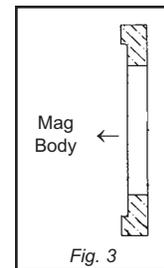


Fig. 3

Shaded items are for manual release brake only

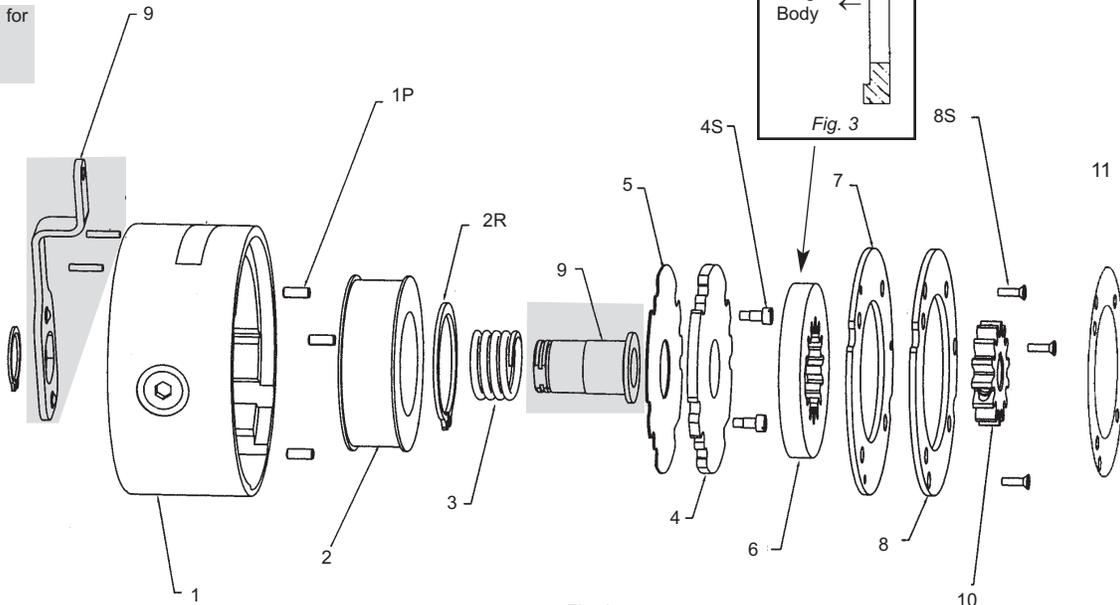


Fig. 2

Replacement of armature and coil (brakes w/manual release) (refer to Fig. 2)

1. Remove three adapter plate screws (8S), and remove adapter plate and friction disc.
2. Remove two shoulder screws (4S) and lift armature (4) and shim (5) out of brake.
~ Note position of locating pin cutouts for proper reassembly.
3. Remove retaining ring (2R), turn brake upside down and lightly tap on flat surface to remove coil from magbody (1).
~ Note coil leadwire position for proper reassembly.
4. Insert new coil with leadwires properly positioned (ensure wires are not pinched). Press coil assembly down tight against lower magbody surface, and replace retaining ring (2R).
5. Position shim (5) and armature (4) into magbody (1) and tighten the two shoulder screws (4S).
6. Center friction disc (6) on face of armature, and reposition pressure plate and adapter plate on magbody. Replace three adapter plate screws (8S), and tighten securely.
7. Reassemble brake to motor and tighten mounting bolts.

Replacement of armature and coil (brakes w/o manual release)

(refer to Fig. 4)

- 1a. Remove three adapter plate screws (8S), and remove adapter plate and friction disc.
- 2a. Insert two release bolts (5/16-24x1.25") provided with coil and armature kits. Tighten down until pressure is relieved off the two shoulder screws (8S). (see Fig. 5)
- 3a. Remove the two shoulder screws. Remove the two release bolts by alternately turning 1/2 turn (ccw) at a time until pressure spring (3) has relaxed. Remove both release bolts. Lift armature (4) and shim (5) out of brake.
~ Note position of locating pin cutouts for proper assembly
- 4a. Remove coil retaining ring (2R), turn brake upside down and lightly tap on a flat surface to remove coil from magbody (1).
- 5a. Insert new coil with leadwires properly positioned (ensure wires are not pinched). Press coil assembly down tight against lower magbody surface, and replace retaining ring (2R).
- 6a. Position shim (5) and armature (4) into magbody (1) and retighten the two release bolts until the armature is reseated into the magbody (1), (make sure the armature has properly positioned itself around the locating pins).
- 7a. Install and tighten the two shoulder screws (4S), and remove the two release bolts.
- 8a. Center the friction disc (6) on the face of the armature, and reposition pressure plate (7) and adapter plate (8) on magbody. Replace three adapter plate screws (8S), and tighten securely.
- 9a. Reassemble brake to motor and tighten mounting bolts.

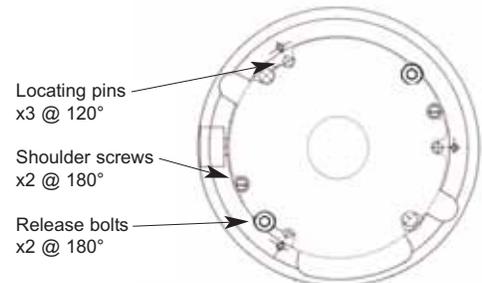


Figure 5

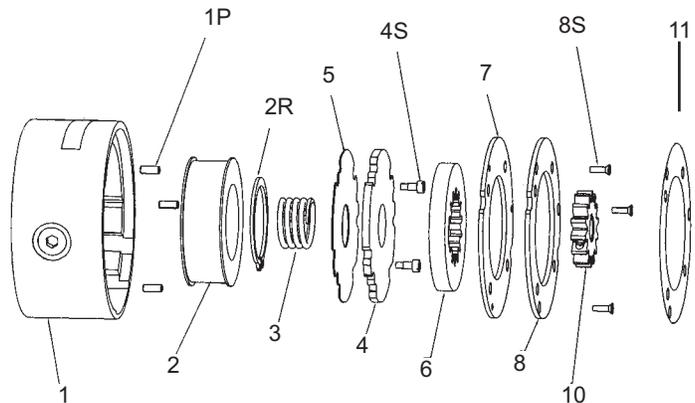


Figure 4

