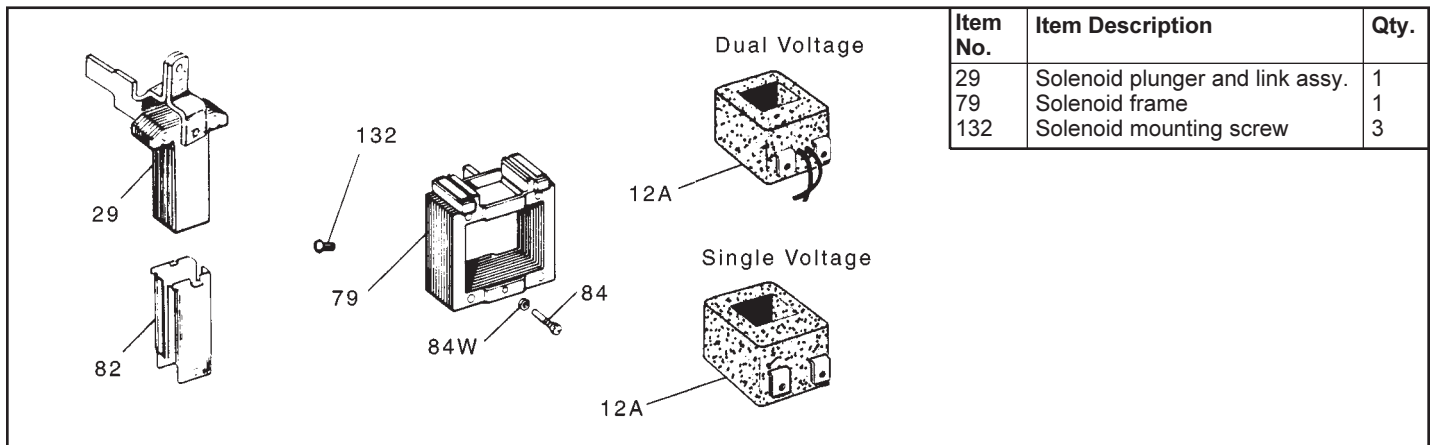


## Service Instructions for No. 4 AC Solenoid Assembly Series 65,000 and 65,300 Disc Brakes



Item No.	Item Description	Qty.
29	Solenoid plunger and link assy.	1
79	Solenoid frame	1
132	Solenoid mounting screw	3

Figure 1

### Important

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

### Caution

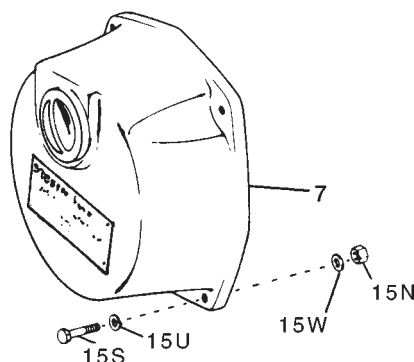
1. Servicing shall be in compliance with applicable local safety codes including Occupational Safety and Health Act (OSHA). All wiring and electrical connections must comply with the National Electric Code (NEC) and local electric codes in effect.
2. To prevent an electrical hazard, disconnect power source before working on the 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 brake. Allow sufficient time for the brake to cool before disassembly. Surface may be hot enough to be painful or cause injury.
4. Do not operate brake with housing removed. All moving parts should be guarded.
5. After usage, the brake interior will contain burnt and degraded friction material dust. This dust must be removed before servicing or adjusting the brake.

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.

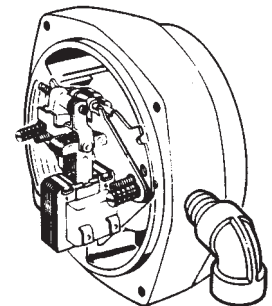
- a) Wear a filtered mask or a respirator while removing dust from the inside of a brake.
  - b) Use a vacuum cleaner or a soft brush to remove dust from the brake. When brushing, avoid causing the dust to become airborne. Collect the dust in a container, such as a bag, which can be sealed off.
6. Maintenance shall be performed only by qualified personnel familiar with the construction and operation of the brake.
  7. For proper performance and operation, only genuine Stearns parts should be used for repairs and replacements.
- Warning!** Any mechanism or load held in position by the brake should be secured to prevent possible injury to personnel or damage to equipment before any disassembly of the brake is attempted or before the manual release knob is operated on the brake.

### Instructions

1. To remove housing, follow instructions listed under individual brake series, as shown in Figure 2, then continue with the following steps.



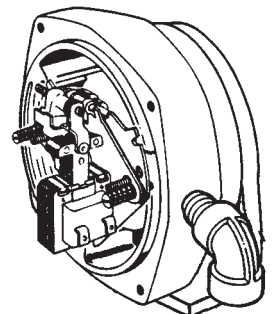
### Series 65,300



Series 65,300 Brakes use four through-bolts (15S), flat washers (15U), lock washers (15W) and hex nuts (15N). Remove all and pull back on housing to free it.

**NOTE:** Some older design Series 65,300 Brakes used the same bolt arrangement as the Series 65,000.

### Series 65,000



Series 65,000 Brakes use four bolts (15S) threaded into endplate, and four lock washers (15W). Remove all and pull back on housing to free it.

Figure 2

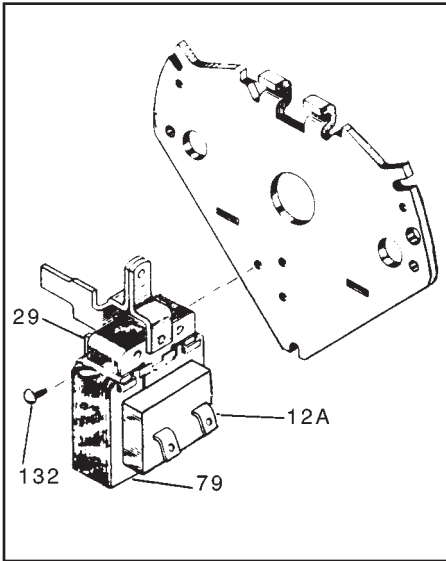


Figure 3

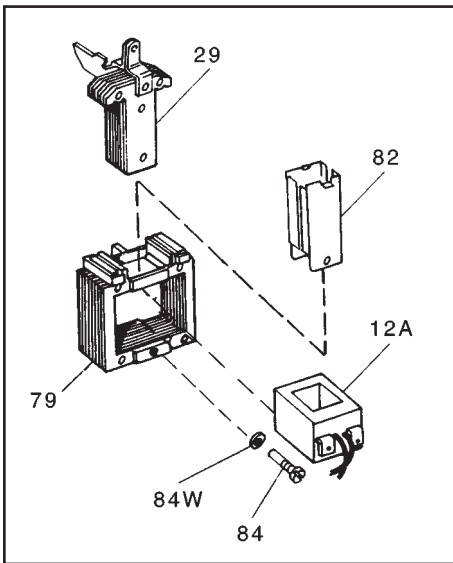


Figure 4

2. Solenoid replacement can be accomplished without removing the support plate from brake.
3. Disconnect coil lead wires. Remove three solenoid mounting screws (132) to free solenoid frame (79).
4. Disconnect solenoid plunger and link assembly (29) and discard.
5. Remove plunger guide screw(s) (84) and lock washer(s) (84W) from frame. Remove plunger guides (82) and coil (12A). Note position of coil.

6. Install coil, plunger guides, plunger guide screw(s) and lock washer(s) into new solenoid frame. Be sure that coil is installed in solenoid frame in same position as old coil.
7. Reinstall new solenoid plunger and link assembly (29). Mount frame (79) with new cap screws (132). Align frame and plunger. Securely tighten screws.
8. Manually lift solenoid plunger to maximum travel. Depress and allow solenoid plunger to snap out several times. Measure solenoid air gap between mating surfaces of solenoid frame and solenoid plunger. (On vertically mounted brakes, it will be necessary to push solenoid plunger into solenoid frame to the point where spring pressure is felt, before measuring solenoid air gap.)

If solenoid air gap exceeds 11/16", adjustment is necessary.

The solenoid air gap measurements are shown in Table below.

**Table: Solenoid Air Gap Measurement (inches)**

Nominal Static Torque (lb-ft)	65,000	65,300
1.5; 3	13/32	13/32
6	1/2	1/2
10	9/16	9/16
15	9/16	9/16

9. The solenoid air gap may be decreased by turning both wear adjustment screws (10) equal amounts clockwise, approximately 1/8 turn, until appropriate solenoid gap is attained. To increase gap, turn screws counterclockwise. See Item 8 above.

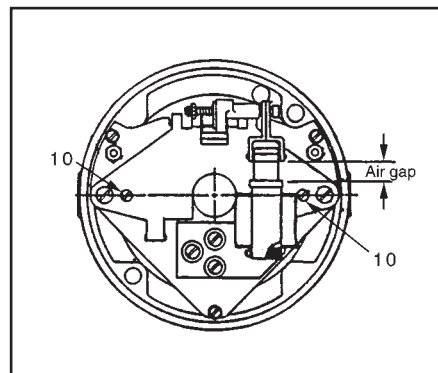
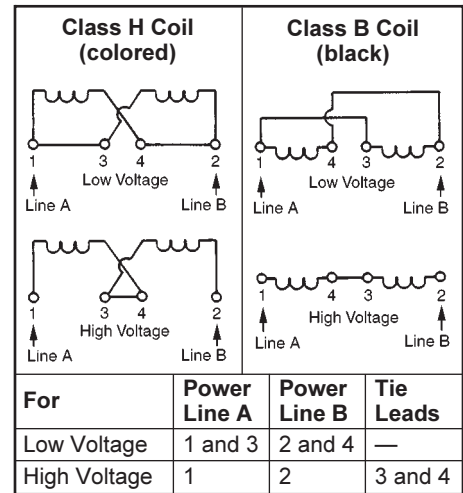


Figure 5

10. Reconnect coil leads.

**Note:** On dual voltage coils observe the lead numbering sequence for proper connections as follows:



11. Orient housing so that manual release knob is approximately 20° counterclockwise from vertical centerline. Slide housing over endplate register and rotate clockwise to align bolt holes. Replace hardware in reverse order of Step 1.

12. **Caution!** Do not run motor with brake in manual release position. It is intended only for emergency manual movement of the driven load, not as a substitute for full electrical release.

**NOTE:** For complete instructions, with troubleshooting, request sheet 8-078-925-03.