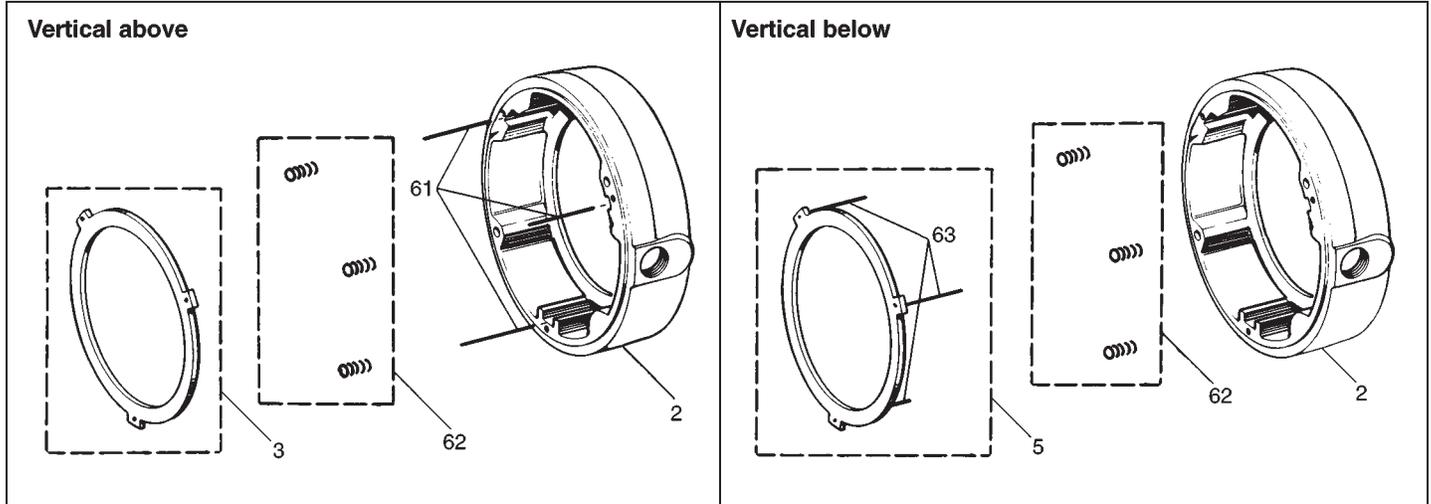


Service Instructions for Vertical Mounting Kits

Series 55,000; 55,500; 55,700 and 57,500 Disc Brakes



Components

Kit	Item Number	Part Description	Quantity Per Kit
Stationary disc kit - vertical mounting	3	Stationary disc	1
Pressure plate - vertical mounting	5	Pressure plate	1
Vertical mounting spring kit - blue	62	Springs - blue	3
Vertical mounting spring kit - white	62	Springs - white	3
Vertical mounting spring kit - red	62	Springs - red	3

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 installed or operated 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.

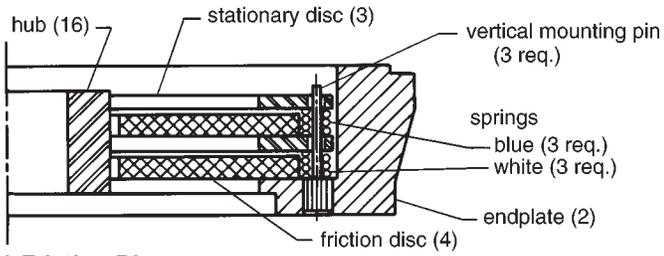
- a) Wear a filtered mask or a respirator while removing dust from the inside of a brake.

- 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.

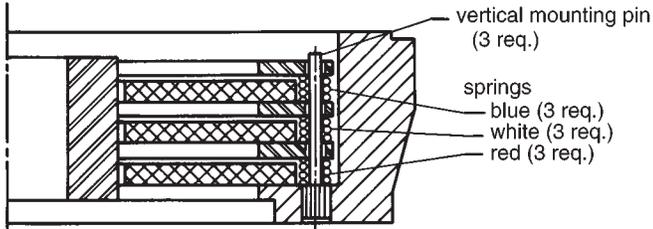
6. Maintenance shall be performed only by qualified personnel familiar with the construction and operation of the brake.
7. For proper performance and operation, only genuine Stearns parts should be used for repairs and replacements.

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 or lever is operated on the brake.

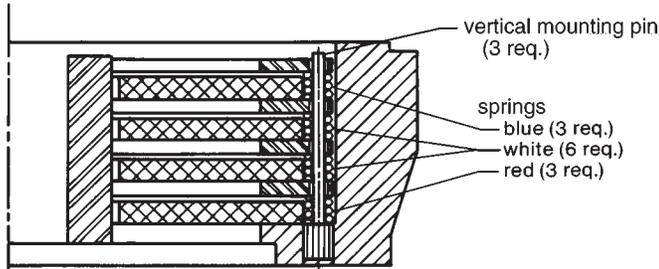
**Vertical arrangement for 55,000 and 57,000 Series
vertical mounting above motor**



2 Friction Discs

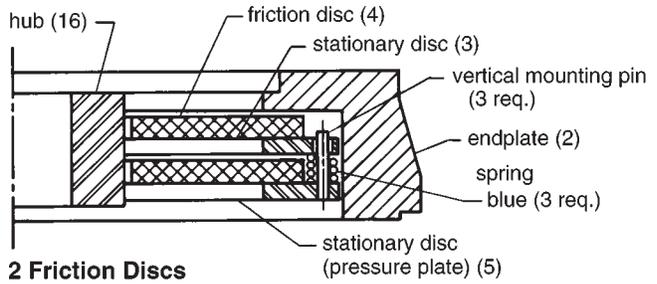


3 Friction Discs

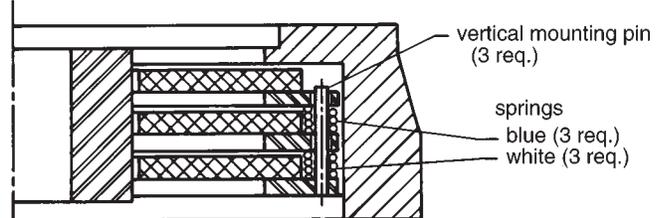


4 Friction Discs

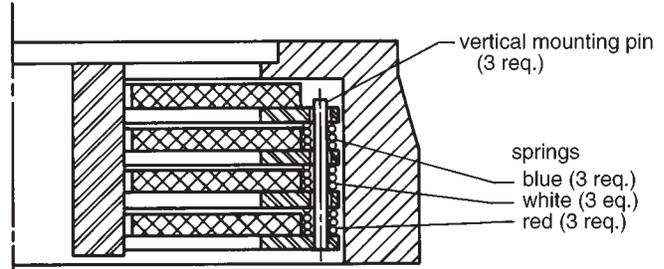
**Vertical arrangement for 55,000 and 57,500 Series
vertical mounting below motor**



2 Friction Discs



3 Friction Discs



4 Friction Discs

Figure 3

Figure 4

**Vertical arrangement for 55,500 Series
vertical mounting above motor**

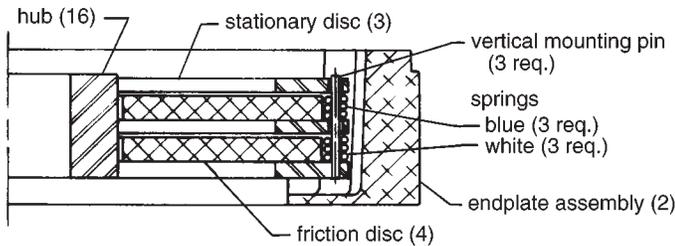


Figure 5

**Vertical arrangement for 55,500 Series
vertical mounting below motor**

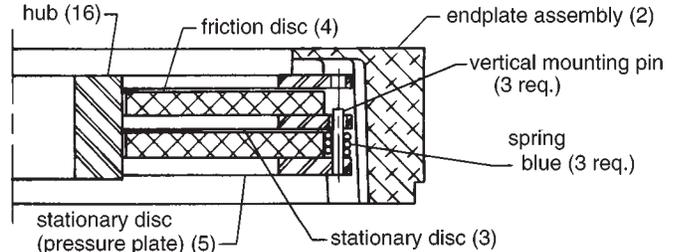


Figure 6

**Vertical arrangement for 55,700 Series
vertical mounting above motor**

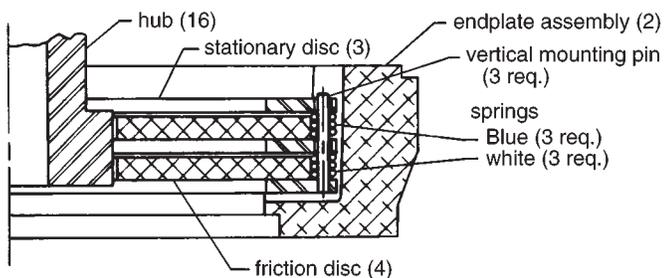


Figure 7

**Vertical arrangement for 55,700 Series
vertical mounting below motor**

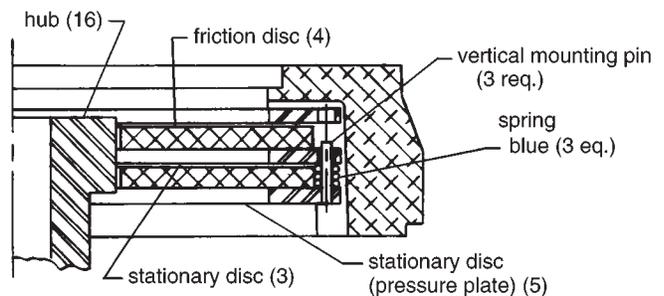


Figure 8

57,500 Series

- a) Spring and pin arrangements for vertical above motor are shown in Figure 7.
 - b) Assemble disc pack into endplate. Friction discs must be free to rotate. Check by rotating hub, if possible, and compress disc pack to make sure that components slide freely over pins. If springs do not return components, pins may be bent, and will have to be straightened.
 - c) Spring and pin arrangements for vertical below motor are shown in Figure 8.
 - d) Assemble stationary disc onto pins in pressure plate to make sure that it slides freely. Insert assembly into endplate to make sure that it slides freely in slots. Straighten pins if required.
 - e) Assemble complete disc pack on bench, and compress to make sure that springs return components. Friction discs must be free to rotate. Center and align friction discs and assemble disc pack into endplate.
5. Remount support plate assembly to the brake, drawing the screws down evenly. Be sure that the assembly is mounted so that the solenoid is upright (plunger above the frame) when the brake is mounted in the horizontal position.

6. 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

Nominal static torque (lb-ft)	55,000 57,500	55,500	55,700
1.5 and 3	13/32	13/32	13.32
6	1/2	1/2	1/2
10	9/16	1/2	1/2
15	9/16	9/16	9/16
20 and 25	9/16	—	—

7. The solenoid air gap may be increased or decreased by turning both wear adjustment screws (10) equal amounts clockwise, approximately 1/8 turn, until approximate solenoid gap is obtained.
8. Reconnect solenoid coil leads.

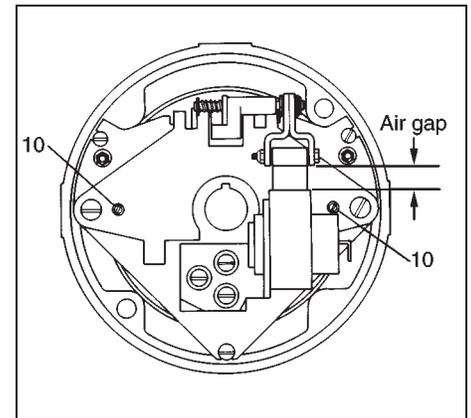


Figure 9

9. Replace housing and housing nuts in reverse order of the appropriate point in step 1.
10. 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 applicable to the series of brake that you have.