MOTOR ALIGNMENT PROCEDURE
WITH MACHINE INSTALLED & CABLES ON

Procedure:

1. With car empty, land counterweight, then release the brake. Turn the brake drum or disc until balance is made.

2. Loosen the brake springs on the brake. Unbolt the brake and slide the brake as far as possible toward the machine (gear-box) housing, making sure the brake shoes are clear of the drum or disc.

3. Take all bolts out of the motor coupling and install two (2) 5/16" tram rods (approximately 7" long) into the motor coupling (180° apart). Put two (2) 90° Starrett Model #196 indicators on one (1) tramming rod with one against the face of the brake drum or disc, and the other on the O.D. of the brake drum or disc. See Fig. 1 for indicator positioning.

4. Turn the tram rods horizontally with the drum or disc until a "0" reading is obtained. Swing the tram rods, turning with the indicator, 180° on the brake drum or disc.

5. While taking readings of the indicators, you should tap the motor (depending on reading) as you swing 180°. They should both read "0" on the drum or disc.

6. This would indicate that the motor is straight in line with the brake drum or disc, and swinging the indicators to an upright position on top of the drum or disc, you would need to again take a reading. The indicator on the face tells you whether the back of the motor is high or low, while the indicator on the O.D. will tell you the height of the motor.

7. Adjust the shimming under the motor legs to maintain the height on the indicator from 0.0 to 0.0015. The reading on the O.D. should be from "0" to 0.002-. (A negative reading indicates that the motor is actually 0.002 high).

8. Go back and check the side reading to make sure they are still "0" readings. Swing the indicators to the top of the drum or disc to make sure they maintain 0.0 to 0.0015 on the face and O.D. of the drum or disc maintains"0" to 0.002- (high).

9. Replace the bolts in the motor coupling and the drum or disc, snugging them in and taking care not to over tighten.

10. Using a magnetic stand and indicator on the O.D. of the drum or disc, put the car in inspection mode and run down about 3 feet. Take a reading on the indicator to assure it is true to within "0" to 0.0005.

11. True reading within these tolerances can be obtained by taking a soft hammer and tapping on the positive side of the face of the drum or disc, bringing it into the "0" to 0.0005 range. Tighten the bolts and replace the lock nuts.

12. Remount the brake.

13. Restore the elevator to operation.

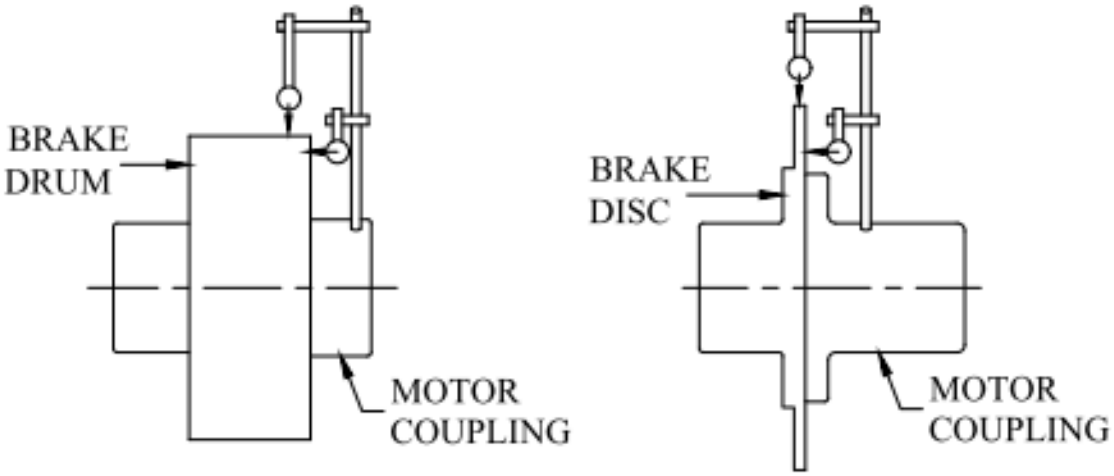

FIG. 1 - INDICATOR POSITIONING