

**Subject:**  
**TORSION SPRING REPLACEMENT**

**Models:**  
**Jacobs models**  
**760, 760A, 760B, 765, 765A and 770**

Check the engine brake model prior to removing them from the engine, the springs supplied are for use on Jacobs models 760, 760A, 760B, 765, 765A and 770.

- 1) Remove the housings from the engine and place upside-down on a clean work bench.
- 2) Remove the button head capscrew and remove the torsion spring, discarding the used torsion spring and button head screw and saving the washer for reuse.
- 3) Remove the slave piston bridge and slave piston to check the bore for wear.
- 4) Lubricate the slave piston with clean engine oil and install into the bore. Install the bridge with the leveling screw side towards the center of the housing.
- 5) Clean the capscrews and threaded holes with brake clean to remove any oil.
- 6) Apply service removable loctite to the button head capscrews and install the washers removed earlier on the new capscrews.
- 7) Install the torsion springs onto the bridges and install the capscrews and washers.

**IMPORTANT: While tightening the capscrews, push the spring against the bridge and toward the slave piston assembly. This will prevent possible contact of the spring with the intake valve adjusting screw. Failure to do so may result in serious engine damage.**

- 8) Torque the button head capscrew to 15 lbsft (20 N•m)

Install on the engine as per Jacobs installation manual.

Prior to installation of the valve cover check for clearance of the torsion spring to the intake valve adjusting screw.