

Subject Slave Piston Seal Ring Kit

Part Number
P60158

Engine Application
Detroit S60

Fits Models
Jacobs 760A/765/765A

Attention: Sealing ring pistons are designed to stop oil bypass in bores and are unable to prevent damage due to piston misalignment if excessive wear present.

Installation Instructions

REMOVAL OF THE HOUSINGS FROM THE ENGINE

1. Thoroughly clean the engine around the valve cover and remove. Check the gasket and replace if necessary. Two piece cover remove only the top.
2. Mark the housings position 1, 2 and 3 so they can be installed in their original position on the engine.
3. Disconnect the wires from the solenoids.
4. Loosen the slave adjusting screw lock-nuts.
5. Loosen and remove the hold down capscrews, lift the housings from the engine.

DISASSEMBLY AND ASSEMBLY OF THE BRAKE HOUSINGS

1. Place the housings (in order) on a clean work bench.
Note: when removing all parts keep them in order of their original location for installation later.
2. Remove the slave piston adjusting screws, inspect the plungers for spring pressure.
3. Remove the capscrews and washers which fasten the slave piston return springs to the housing. Remove the slave piston bridges and slave pistons. Discard the slave pistons only.
4. Apply clean engine oil to the replacement pistons and rings and install in housing bores.
5. Install slave piston bridges with the leveling screws towards the center of the housing.
6. Torsion spring: Prior to assembly, be sure there are no burrs or sharp edges on the machined surface where the torsion spring will be secured. If some are present use a stone, or file lightly until they are removed. **Apply service removable Loctite 242 to the button head capscrews.** Using the new springs, button head screws and washers, mount the torsion springs with the legs extending over the bridge and centered below the screw and washer. Using a 7/32" hex key wrench, screw down the button head screw until it makes contact with the washer. Place a bar through both torsion spring coils and push the spring toward the slave piston. Failure to do so may cause interference between the spring and intake valve. Use a hand torque wrench (not a pneumatic or impact) to tighten the button head screw to 15 lb. ft. (20 N•m).
DO NOT OVER TIGHTEN OR ALLOW THE SPRING TO ROTATE MISALIGNING THE SPRING FEET. After completing the installation, be sure the gap between the outside diameter of the coils on either side of the spring and bridge is equal and there is no distortion of the spring coils.
7. Install the power lash screws loosely, **DO NOT TIGHTEN.**
8. Install on engine as per manufacturers specifications.

Installation PROCEDURES

