

Tandem Modulating Valve Service Instructions

NOTE

Be careful to keep contamination and paint chips out of the modulating valve during the entire servicing process.

The purpose of this conversion for Caterpillar part number 503-0787 is to replace the factory pedal/base assembly (379-1040) with a different pedal/base assembly (504-7493).

Disassembly

(Refer to Figure 1)

1. See machine servicing instructions to properly remove the valve assembly from the machine.
2. Loosen and remove cap screw (1) from pedal (3).
3. Remove three screws (5), cover (6), and seal (7) from base assembly (4).
4. Remove e-ring (2) from the end of pin assembly (8).
5. Remove pin assembly (8) from pedal (3) and base assembly (4).
6. Separate plate (13) from base assembly (4) by removing three cap screws (9) and three washers (10).
7. Separate base assembly (4) from valve assembly (14) by removing two cap screws (11) and two washers (12).

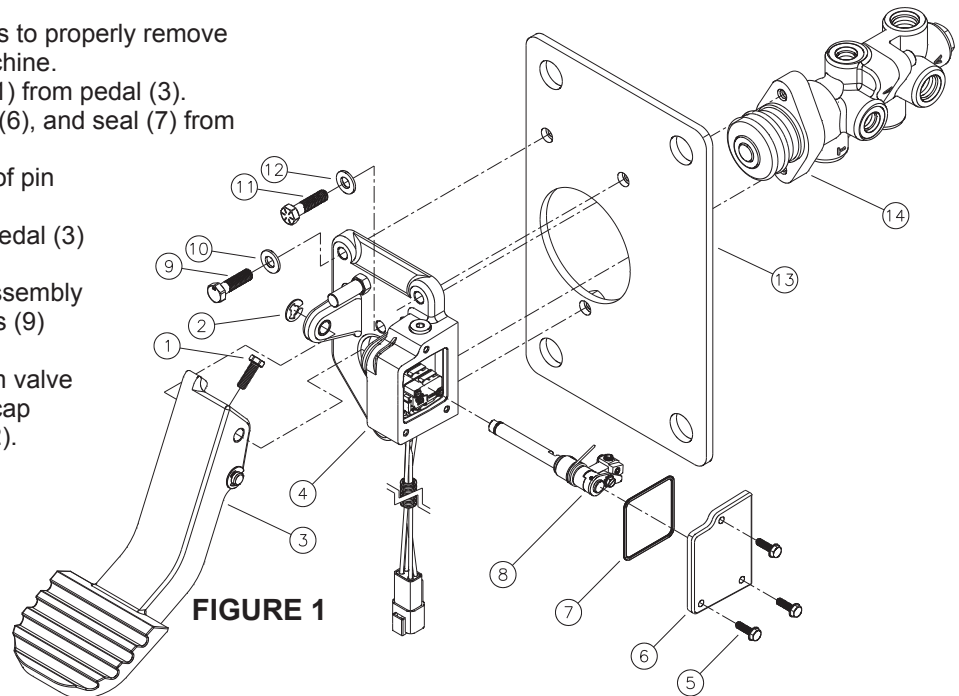


FIGURE 1

Assembly

(Refer to Figure 2)

NOTE

Do not remove pedal from the base assembly. The pedal and sensor are adjusted at the time of manufacture. Removing and reinstalling the pedal may cause the sensor output to be incorrect.

1. Install plate (13) to new pedal/base assembly, Caterpillar part number 504-7493, using three cap screws (9) and three washers (10). Torque cap screws 24-30 N·m (18-22 lb-ft).
2. Remove the nuts that are temporarily holding new cap screws (11) and washers (12) in place. Install the pedal/base assembly and plate (13) to valve assembly (14) using two cap screws (11) and washers (12) provided on the base assembly. Tighten screws (11) evenly and torque 24-30 N·m (18-22 lb-ft).
3. Reinstall the valve on the machine according to the machine manufacture instructions. Be sure the pedal and valve are functioning properly before using the machine.

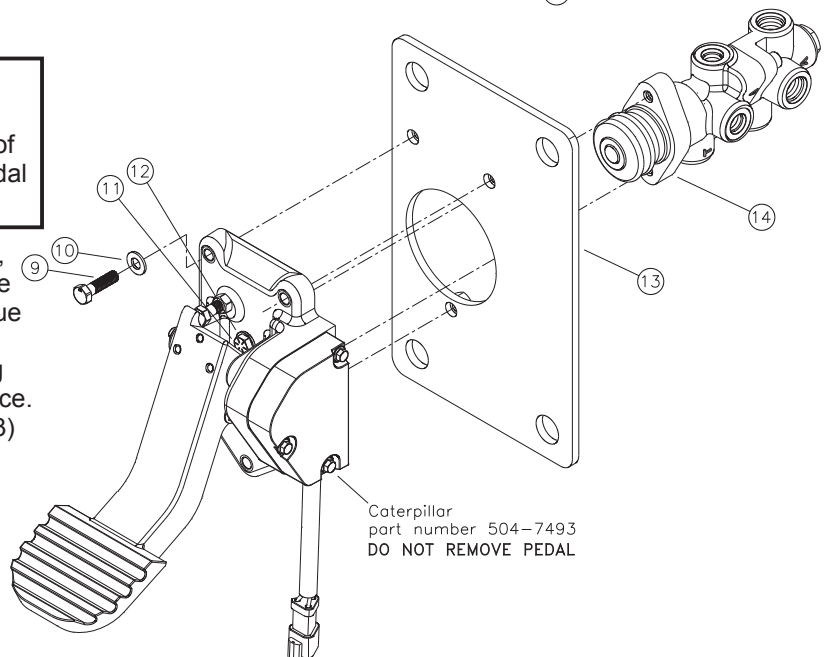


FIGURE 2