

IDLE VALVE INSTALLATION INSTRUCTIONS

Overview:

7115203 idle valve replacement

Affected Models:

DXPW33241 DeWalt Idle Down / #61109

Corrective Action Summary:

Remove bad idle valve and replace it with a new idle valve.

Corrective Action Procedure:

Tools Needed: 10mm socket and driver, 17mm socket and driver, white lithium grease, tachometer, torque wrench **Required**

Parts: 7115203 kit

Replacement Parts: none

Removing the bad idle valve:

1. Disconnect the spring from the idle cable and the speed control lever on the engine. (Figure 1)
2. Use a 10mm socket and driver to loosen the idle cable bracket bolts then lift the cable out of the bracket. (Figure 2)
3. Use a 17mm socket and driver to remove the idle valve from the pump. (Figure 3)
4. Make sure the o-ring seal is in place on the idle valve and not stuck to the pump. (Figure 4)

Installing the new idle valve:

1. Apply a thin coating of white lithium grease onto the o-ring seals, install them into both sides of the idle valve, then insert the valve retainer bolt through the idle valve and o-ring seals. (Figure 4)
2. Route the idle valve cable under the soap tank and use a 17mm socket and driver to install the idle valve onto the pump. Failure to properly torque the idle valve retaining bolt with a torque wrench to the manufacture listed settings could result in the retaining bolt breaking upon installation. (Figure 5)
 - a. **Recommended maximum torque setting is 7-8 ft lbs. / 88-96 in lbs. / 10-11NM**
3. Route the idle valve cable in front of the soap tank and insert it into the cable retention bracket. (Figure 2) See Figure 7 for proper idle down cable routing.
4. Connect the spring to the idle valve cable and the speed control lever on the engine. (Figure 1)
5. Hook up a tachometer, adjust idle speed by sliding the idle down cable back and forth in the bracket. Set low idle speed to 2600-2900 RPM with water in unit, high-pressure hose installed, spray gun installed, machine running, spray gun not spraying (machine in bypass). Set high idle speed to 3450 RPM with water in unit, high-pressure hose installed, spray gun installed, machine running, and spray gun spraying (machine not in bypass).
6. Use a 10mm socket and driver to tighten the idle valve cable retention bracket bolts. Tighten bracket bolts until the cable will not move when pulled on by hand.

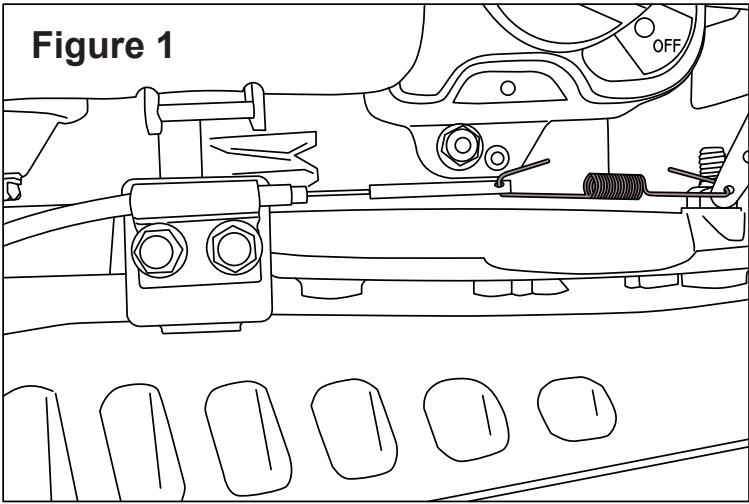


Figure 1

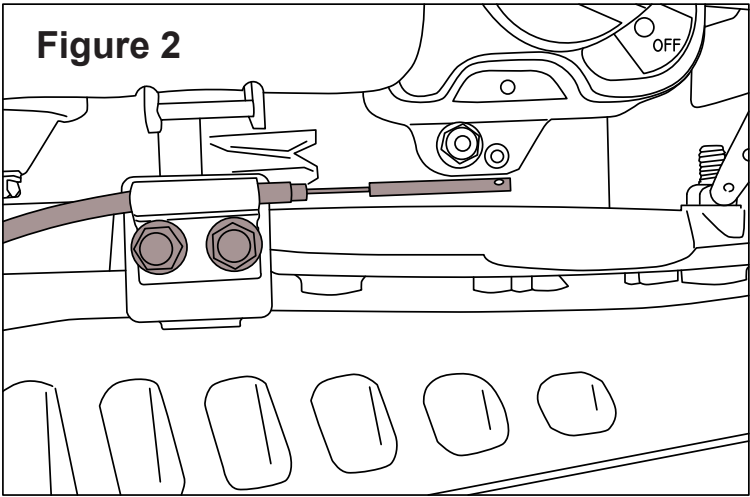


Figure 2

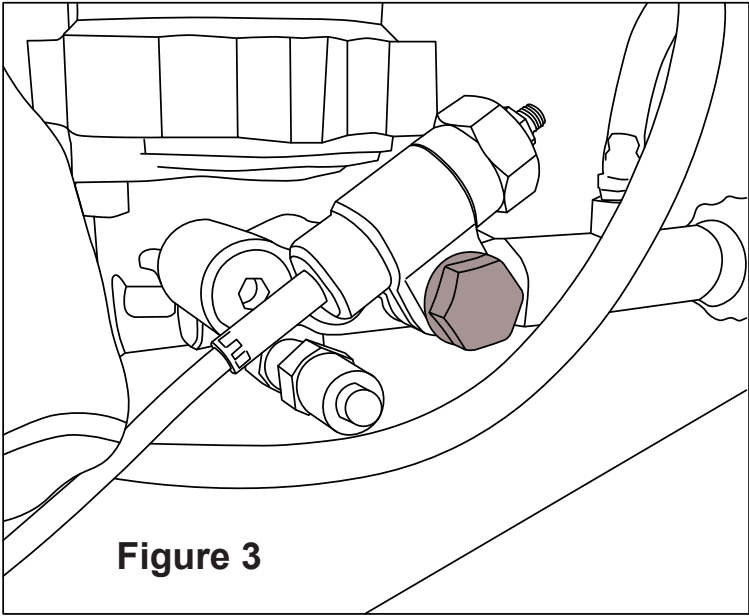


Figure 3

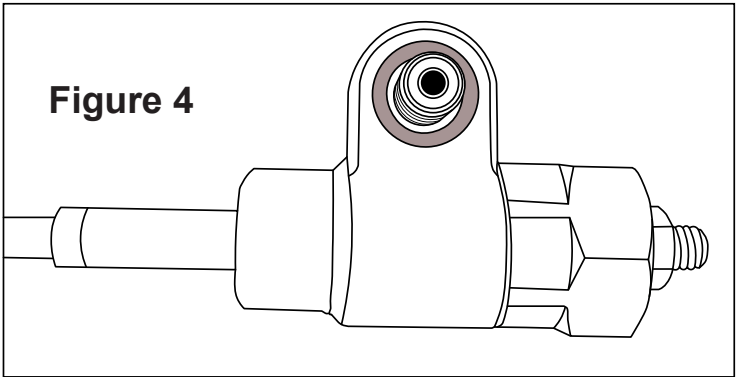


Figure 4

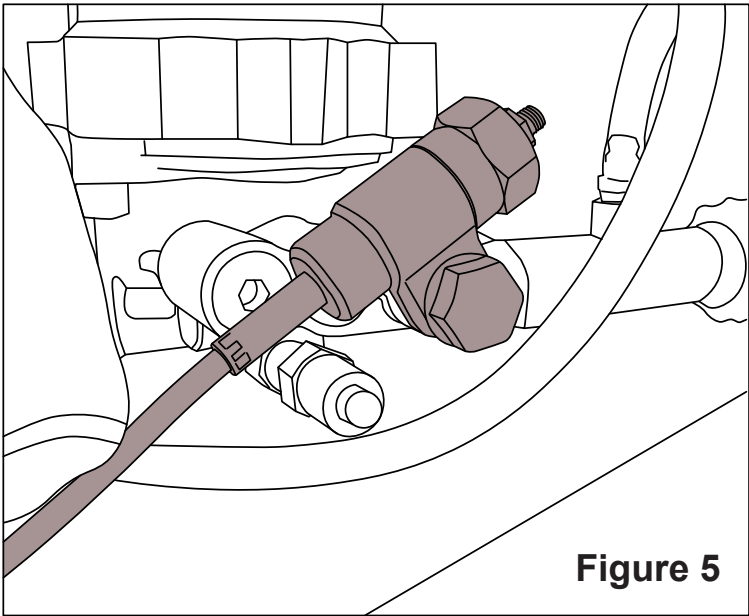


Figure 5

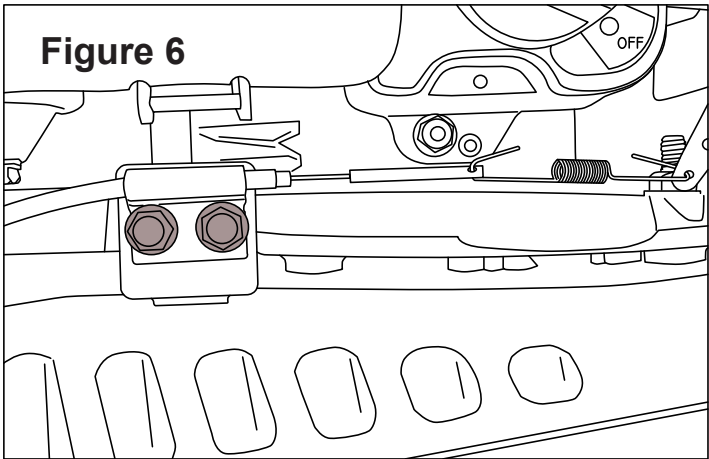


Figure 6

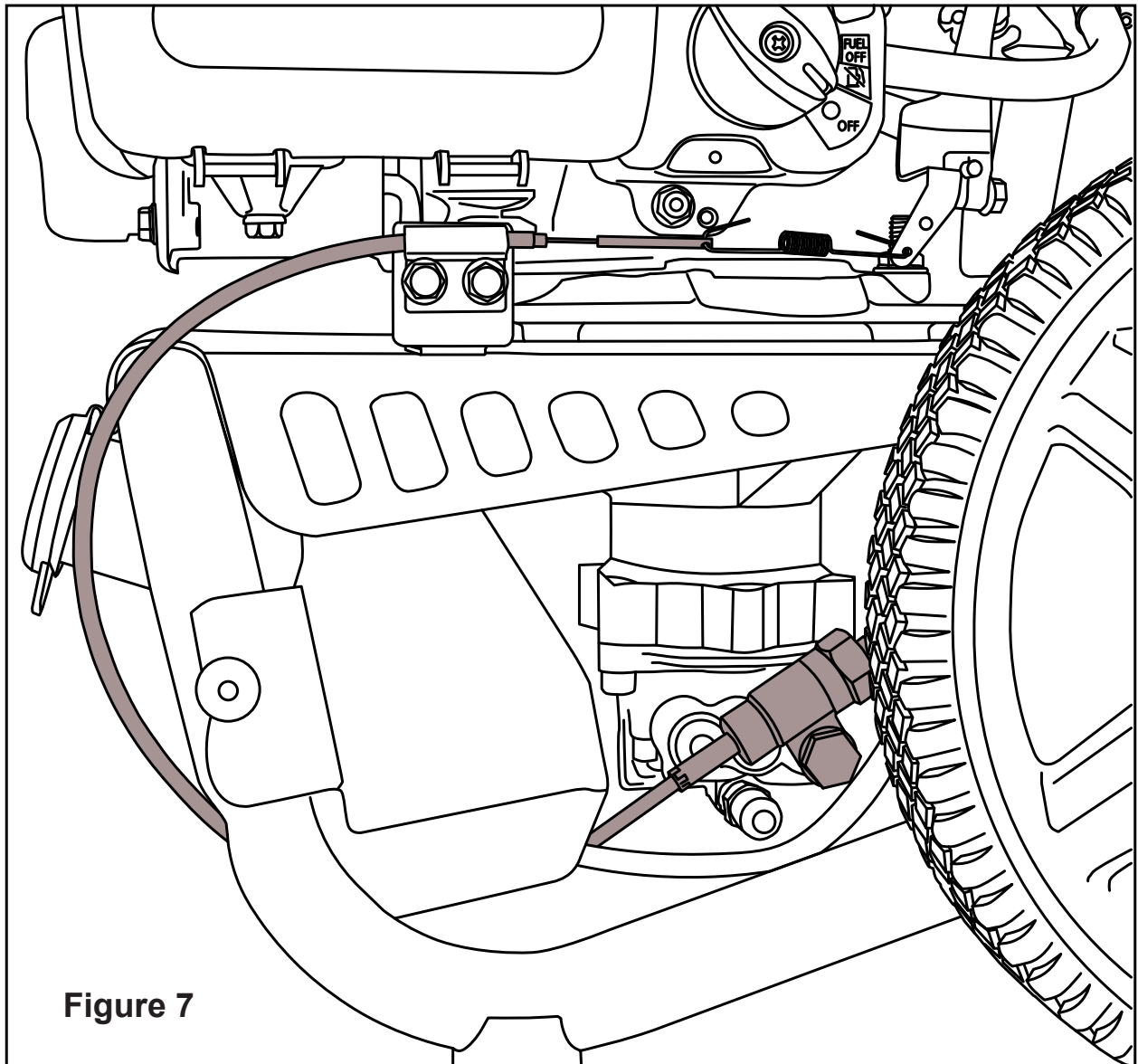


Figure 7