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IDLE VALVE INSTALLATION INSTRUCTIONS

Overview:

7115203 Idle Valve and 7120277 Banjo Bolt Replacement

Affected Models:

DXPW3324i DeWalt Pressure Washer with Idle Down

Recommended Repair Procedure:

Tools Needed: 10mm socket and driver, 17mm socket and driver, 5MM Allen Socket, white lithium grease, tachometer, torque wrench
Required Parts: 7115203 or 7120277 Bolt Kit

Removing the defective idle valve or broken bolt:

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 to remove the idle valve from the pump (Figure 3). Then, with a 5mm Allen hex socket, remove the threaded valve cap from the pump housing.
   If the banjo bolt is broken off in the threaded valve cap, other means may be necessary to remove the valve cap.

Installing the new idle valve:

1. Apply a thin coating of white lithium grease on the O-ring seal on the new threaded valve cap.
2. With a 5mm Allen hex socket, install the threaded valve cap from the pump housing and torque to 12 Ft-lbs / 144 In-lbs
   Note: Do not tighten the valve cap and the banjo bolt together. Doing so may cause the bolt to break.
3. Apply a thin coating of white lithium grease onto the banjo bolt O-ring seals, install them on both sides of the idle valve, and then insert the valve retainer bolt through the idle valve and O-ring seals. (Figure 4)
   Verify the O-ring is in place on the idle valve and tighten the banjo bolt finger tight.
4. Route the idle valve cable under the soap tank and then use a 17mm socket and driver to install the idle valve onto the pump and torque to settings.
   Failure to properly torque the idle valve retaining bolt with a torque wrench to the manufacturer listed settings could result in the retaining of a new banjo bolt fracturing upon installation. (Figure 3)
   a. **Recommended maximum torque setting is 7-8 ft lbs. / 88-96 in lbs. / 10-11NM**
5. 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.
6. Connect the spring to the idle valve cable and the speed control lever on the engine. (Figure 1)

7. Hook up a digital tachometer to the spark plug lead, "Tiny Tach or Similar Tach found on Amazon." Adjust idle speed by sliding the idle down cable back and forth in the bracket. (Figure 2)
   Set low idle speed to 2600-2900 RPM with water in the unit, high-pressure hose installed, spray gun installed, machine running, spray gun not spraying (machine in bypass). (Figure 2)
8. Set high idle speed to 3450 RPM with water in the unit, high-pressure hose installed, spray gun installed, machine running, and spray gun spraying (machine not in bypass). (Figure 2)
9. Use a 10mm socket and driver to tighten the idle valve cable retention bracket bolts. (Figure 5)
10. Tighten bracket bolts until the cable does not move when pulled on by hand. (Figure 5)

Figure 1

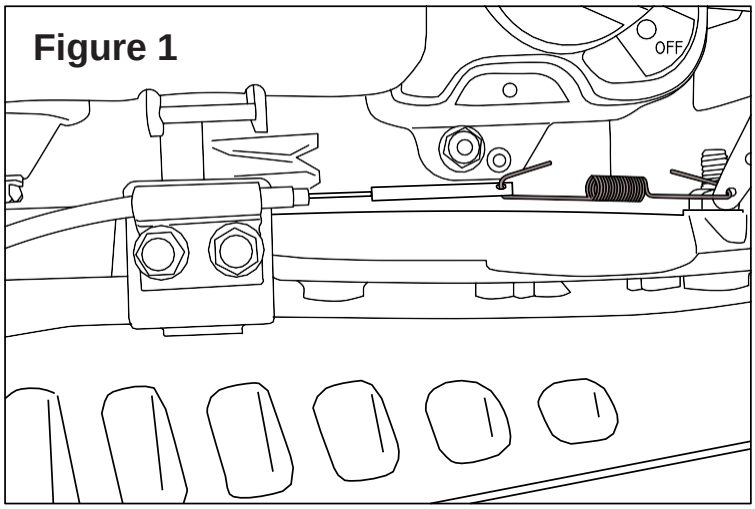
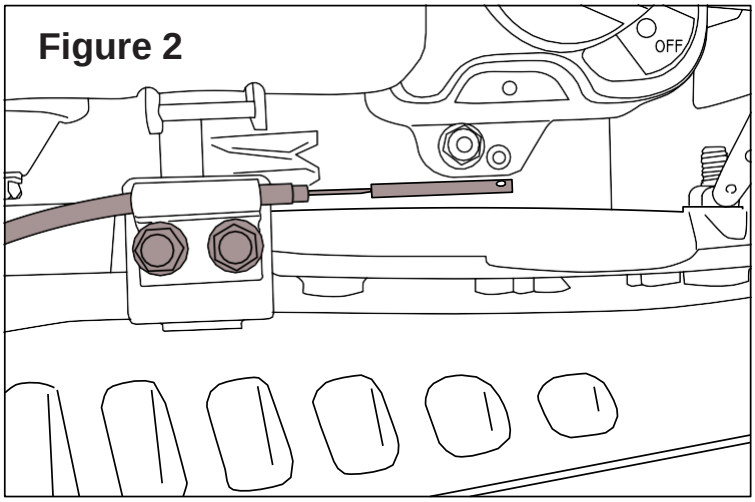


Figure 2



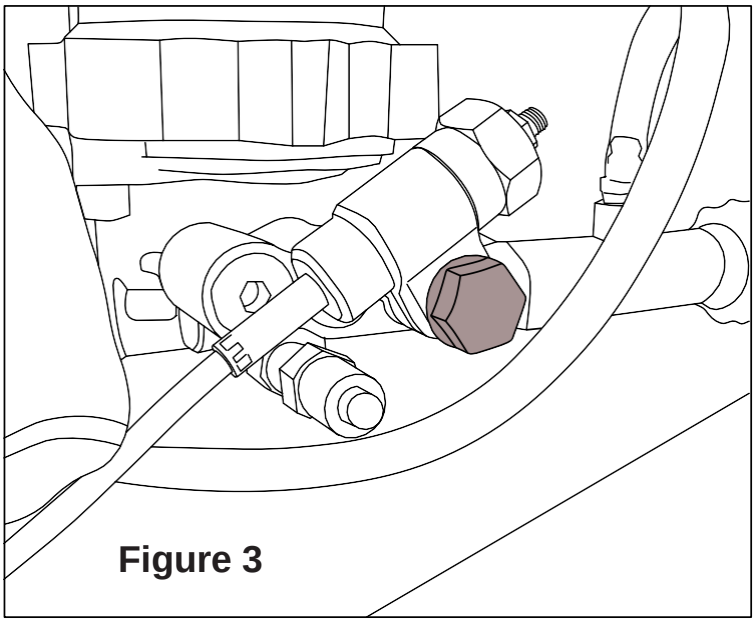


Figure 3

Figure 4

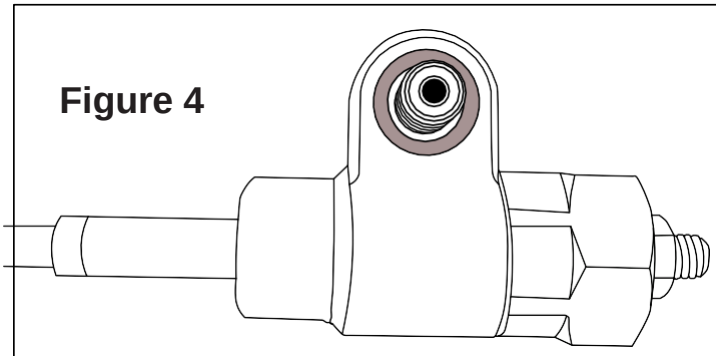


Figure 5