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2021 Chevrolet Spark Service and Repair Manual

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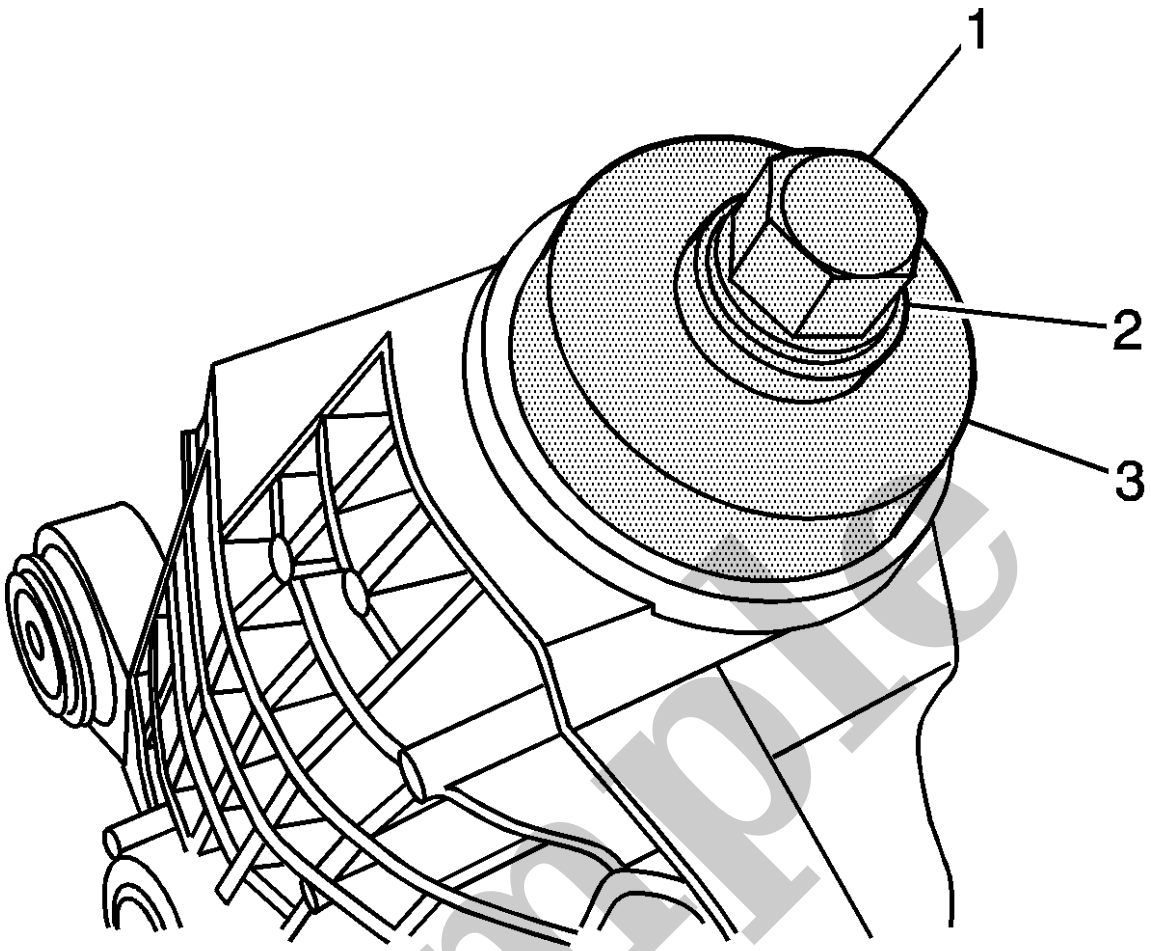
Parameter	System State	Expected Value	Description
Tank			control module from the fuel level sensor for the right tank.
Fuel Pressure Regulator 1 Control Circuit Command	—	On/Off	This parameter displays the commanded state of the fuel pressure regulator 1 low side output.
Fuel Pressure Regulator 1 Control Circuit High Voltage Test Status	—	OK	This parameter displays the diagnostic state of the fuel pressure regulator control circuit as determined by the control module. The scan tool will display OK, Malfunction or Not Run. The scan tool will display OK if the circuit is operating correctly.
Fuel Pressure Regulator 1 Control Circuit Low Voltage Test Status	—	OK	This parameter displays the diagnostic state of the fuel pressure regulator control circuit as determined by the control module. The scan tool will display OK, Malfunction or Not Run. The scan tool will display OK if the circuit is operating correctly.
Fuel Pressure Regulator 1 Control Circuit Open Test Status	—	OK	This parameter displays the diagnostic state of the fuel pressure regulator control circuit as determined by the control module. The scan tool will display OK, Malfunction or Not Run. The scan tool will display OK if the circuit is operating correctly.
Fuel Pressure Regulator 1 High Control Circuit Command	—	%	This parameter displays the commanded duty cycle for the fuel pressure regulator 1 solenoid output.
Fuel Pressure Regulator 1 High Control Circuit Command	—	On/Off	This parameter displays the commanded state of the fuel pressure regulator 1 high side output.
Fuel Pressure Regulator 1 High Control Circuit High Voltage Test Status	—	OK, Malfunction, Not Run	This parameter displays the state of the fuel pressure regulator circuit voltage. The parameter displays Malfunction if the fuel pressure regulator circuit voltage is shorted to voltage.
Fuel Pressure Regulator 1 High Control Circuit Low Voltage Test Status	—	OK, Malfunction, Not Run	This parameter displays the state of the fuel pressure regulator circuit voltage. The parameter displays Malfunction if the fuel pressure regulator circuit voltage is shorted to ground.
Fuel Pressure Regulator 1 High Control Circuit	—	OK, Malfunction, Not Run	This parameter displays the state of the fuel pressure regulator circuit voltage. The parameter displays Malfunction



6.

Install the J-45858–3 (3), the thrust bearing and the washer (2), and the J-45858–6 (1) over the outer pinion bearing cup bore.

6. The difference between the backlash at all of the measuring points should not vary by more than ***0.05 mm (0.002 in)*** .

7. If the difference between the backlash at all of the measuring points varies by more than ***0.05 mm (0.002 in)*** , inspect for burrs, a distorted case flange or uneven bolting.

8. If the difference between all the measuring points is within specifications, the backlash at the minimum lash point measured should be ***0.08–0.25 mm (0.003–0.010 in) with a preferred backlash of 0.13–0.18 mm (0.005–0.007 in)*** .

9. **NOTE**

   Note

   Increasing or decreasing the shim thickness by ***0.05 mm (0.002 in)*** will change the backlash adjustment approximately ***0.03 mm (0.001 in)*** .

   Calculate the average of the 3 measurements.

10. **NOTE**

    Note

    - If the backlash is less than, select a smaller shim than the one that was removed. For example, to INCREASE the backlash by ***0.05 mm (0.002 in)*** , select a shim that is ***0.10 mm (0.004 in)*** thinner than the shim that was removed.
    - If the backlash is larger than, select a larger shim than the one that was removed. For example, to DECREASE the backlash by ***0.05 mm (0.002 in)*** , select a shim that is ***0.10 mm (0.004 in)*** thicker than the shim that was removed.

    Install the selected shim.

11. **CAUTION**

    Caution

    Refer to Fastener Caution.

    If the backlash is too small, increase the backlash using the following procedure:

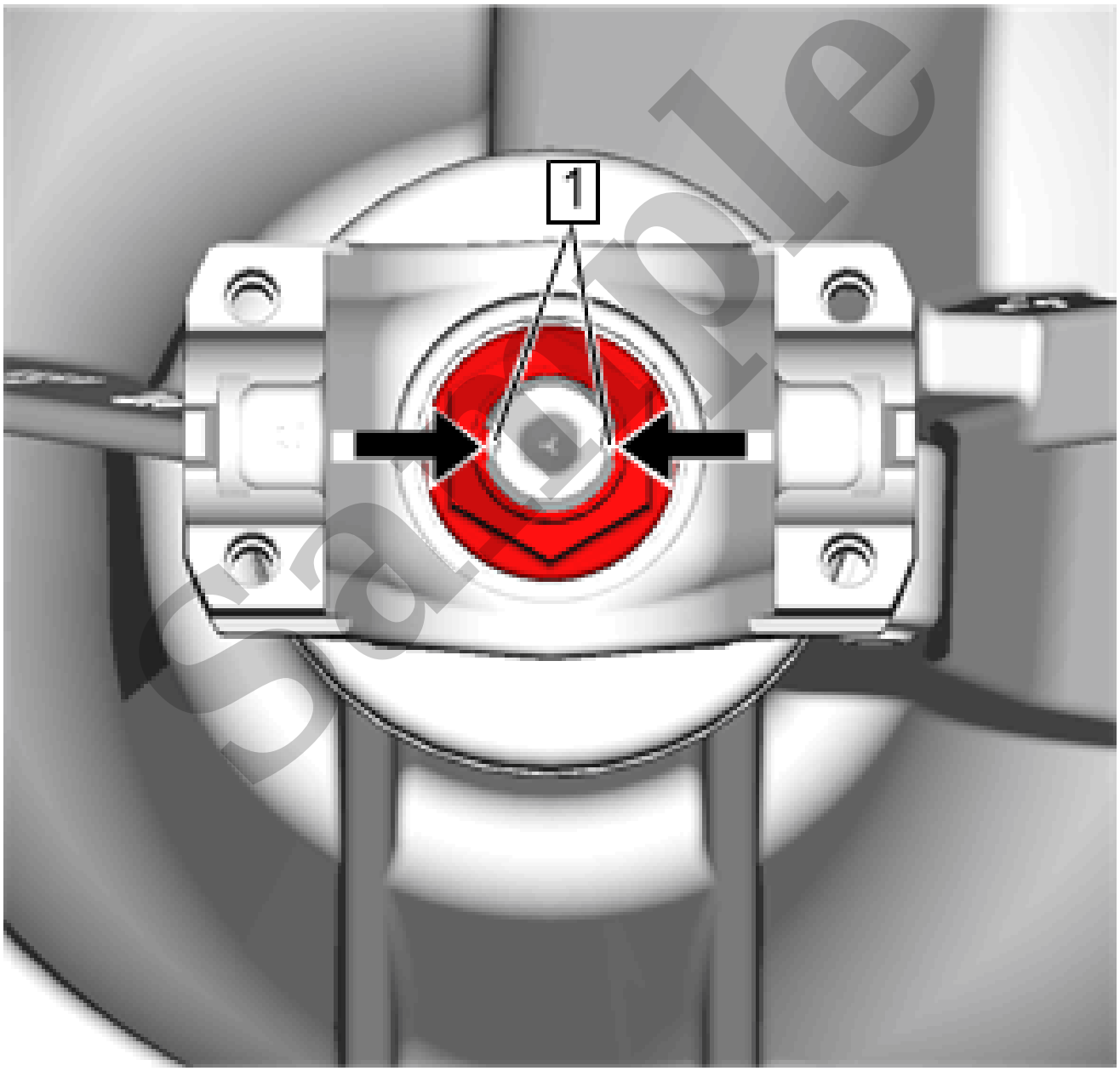
    1. Remove the bearing cap bolts and the bearing caps.

9. **NOTE**

Note

- Recheck the rotating torque and adjust if necessary.
- Take care to not split the nut lip which could affect nut torque retention. If nut lip is split, use new nut.

Once the specified torque is obtained, rotate the pinion several times to seat the bearings.

10. 

NOTE

2. Test for infinite resistance between the control circuit and ground.
    - If less than infinite resistance, repair the short to ground on the circuit.
    - If infinite resistance
3. Test for less than 2 Ω in the control circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance in the circuit.
    - If less than 2 Ω, replace the A33 Media Disc Player.

- **If 5 V or greater.**

7. Replace the S140 Media Disc Eject Switch. Connect all harness connectors.
8. Ignition ON, infotainment system ON. Insert a disc in the A33 Media Disc Player.
9. Verify the disc ejects after touching the eject switch.
    - **If the disc does not eject**

      Replace the A33 Media Disc Player.
    - **If the disc ejects**
10. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Instrument Panel Multifunction Switch Replacement
- Control Module References for media disc player replacement, programming, and setup.

1. Ignition OFF, disconnect the X1 and X2 harness connectors at the T3 Audio Amplifier. Ignition ON.
2. Test for less than 1 V between the signal circuit and ground.
    - If 1 V or greater, repair the short to voltage on the circuit.
    - If less than 1 V, replace the T3 Audio Amplifier.

- **If 5–7 V**

3. Test or replace the P19 Speaker.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Speaker Replacement Reference
- Control Module References for audio amplifier replacement, programming, and setup.