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2022 Chevrolet Camaro Service and Repair Manual

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DTC	Diagnostic Procedure
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B3125	Vehicle Access - DTC B3125, B3130, or B3135
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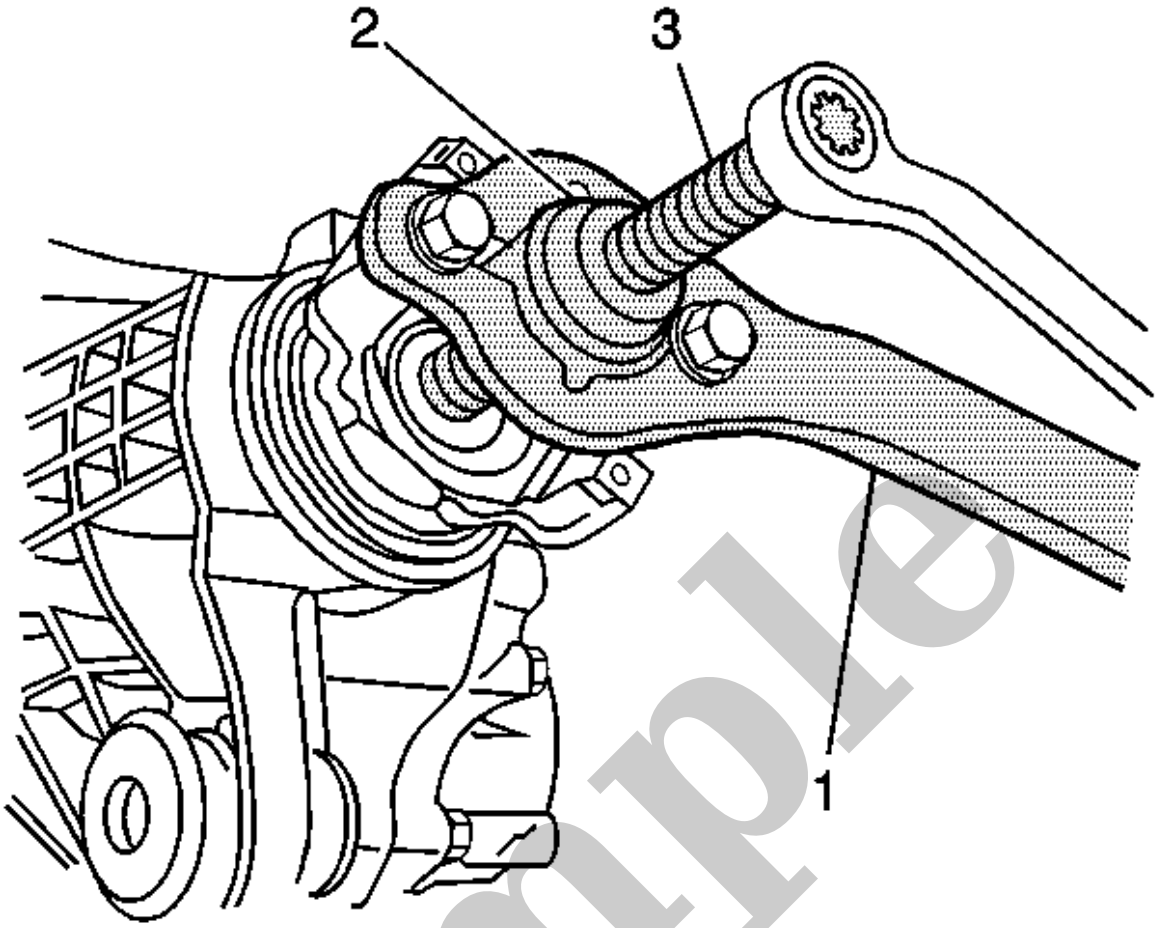
B3150	Vehicle Access - DTC B3140, B3145, B3150, or B3155

Parameter	System State	Expected Value	Description
Low Voltage Test Status			if the skip shift solenoid actuator control circuit is shorted to ground.
Skip Shift Solenoid Actuator Control Circuit Open Test Status	—	OK	This parameter displays the state of the skip shift solenoid actuator control circuit. The parameter displays Malfunction if the skip shift solenoid actuator control circuit is open.
Specific Humidity	—	%	This parameter displays the ratio of water vapor to dry air shown in a percentage.
Short Term Fuel Trim Test Average Bank 1 or Bank 2	—	3%	This parameter is calculated by the control module based on an intrusive test by the control module. The Short Term FT Test Average used for the short term correction of the fuel delivery in each bank. The scan tool will display a high value for a large amount of short term fuel correction, and 0% for no short term fuel trim correction. The scan tool will display a negative value when fuel system is running too rich and fuel is being removed from the combustion event. The scan tool will display a positive value if the fuel system is running lean and fuel is being added to the combustion event.
Start Up ECT	—	Varies °C/°F	This parameter Indicates the engine coolant temperature at engine start up as calculated by the control module based on the signal from the ECT sensor. The scan tool will display a higher value on a warmer engine, and a lower value on a colder engine.
Start Up IAT	—	Varies °C/°F	This parameter Indicates the intake air temperature at engine start up as calculated by the control module based on the signal from the IAT sensor. The scan tool will display a higher value during warmer under hood temperatures, and a lower value during colder under hood temperatures.
Starter Relay Command	—	Off	This parameter displays the current starter relay command. The scan tool displays ON when the starter relay is commanded on.
Starter Relay Control Circuit High Voltage Test Status	—	OK	This parameter displays the state of the starter relay control circuit. The parameter displays Malfunction if the starter relay control circuit is shorted to voltage.
Starter Relay Control Circuit Low Voltage Test Status	—	OK	This parameter displays the state of the starter relay control circuit. The parameter displays Malfunction if the starter relay control circuit is shorted to ground.

Specification	
Metric	**English**
0.787 mm	0.031 in
0.813 mm	0.032 in
0.838 mm	0.033 in
0.864 mm	0.034 in
0.889 mm	0.035 in
0.914 mm	0.036 in
0.940 mm	0.037 in
0.965 mm	0.038 in
0.991 mm	0.039 in
1.016 mm	0.040 in
1.041 mm	0.041 in
1.067 mm	0.042 in
1.092 mm	0.043 in
1.118 mm	0.044 in
1.143 mm	0.045 in
1.168 mm	0.046 in
1.194 mm	0.047 in
1.219 mm	0.048 in
1.245 mm	0.049 in



14. Install the J-8614-2 (2) and the J-8614-3 (3) into the **J-8614-01** ***holding tool*** (1) as shown.
15. Remove the pinon yoke by turning the J-8614-3 (3) clockwise while holding the **J-8614-01** ***holding tool*** (1).
16. **NOTE**

    Note

    Carefully remove the oil seal from the bore. Do not distort or scratch the aluminum case.

    Remove the oil seal using a suitable seal removal tool.

Installation Procedure

Slide the differential case assembly towards the right side axle housing until the ring gear contacts the drive pinion. This is the ZERO backlash point.

9. Install the differential assembly with the differential side bearings and differential side bearing cups into the axle housing.
10. Insert one 4.318 mm (0.170 in) thick service spacer into the left side of the axle housing.
11. Side the differential assembly towards the service spacer in order to hold the spacer in place.
12. Install the **J–22779** ***gauge*** between the right side differential side bearing cup and the axle housing.
13. **NOTE**

    Note

    Over-tightening of the **J–22779** ***gauge*** may spread the housing and result in incorrect shim selection.

    Tighten the knob on the **J–25588** ***installer*** until there is moderate drag when the **J–22779** ***gauge*** is moved.
14. Remove the **J–22779** ***gauge*** .
15. Remove the service spacer.
16. **NOTE**

    Note

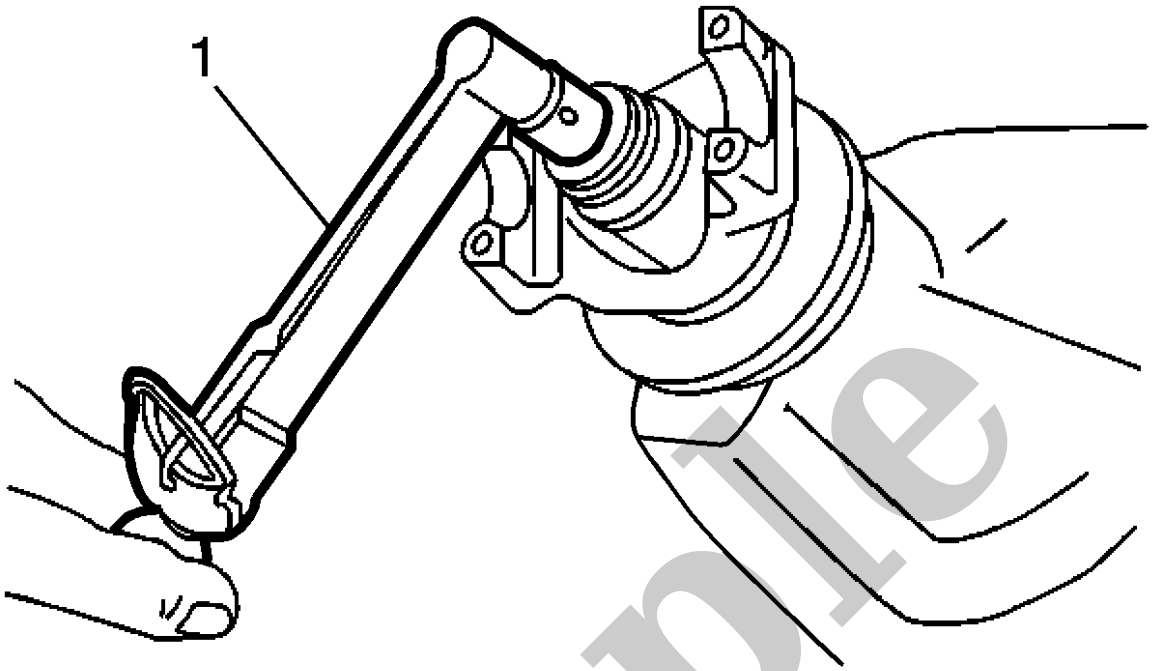
    Record the measurement.

    Using a micrometer, measure the thickness of the service spacer.
17. **NOTE**

    Note

    Record the measurement.

    Using a micrometer, measure the thickness of the **J–22779** ***gauge*** in 3 locations. Calculate the average of the 3 measurements.



7.

CAUTION

Caution

Refer to Fastener Caution.

NOTE

Note

Compare this measurement with the rotating torque recorded during removal.

Using an inch pound torque wrench and tightening in small increments, measure the rotating torque of the pinion until the reading ***0.40–0.57 N·m (3–5 lb in)*** greater than the rotational torque noted at removal.

- High Frequency Antenna Replacement
- Control Module References for human machine interface control module replacement, programming, and setup.

YOUR CURRENT VEHICLE

DTC B1025-B1135

DTC B1025-B1135 (UQH)

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provide an overview of each diagnostic category.

DTC Descriptors

DTC B1025	Audio Output 1 Circuit
DTC B1035	Audio Output 2 Circuit
DTC B1045	Audio Output 3 Circuit
DTC B1065	Audio Output 5 Circuit
DTC B1075	Audio Output 6 Circuit
DTC B1085	Audio Output 7 Circuit
DTC B1095	Audio Output 8 Circuit
DTC B1105	Audio Output 9 Circuit
DTC B1115	Audio Output 10 Circuit
DTC B1125	Audio Output 11 Circuit