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2023 Chevrolet Tahoe - 2WD Service and Repair Manual

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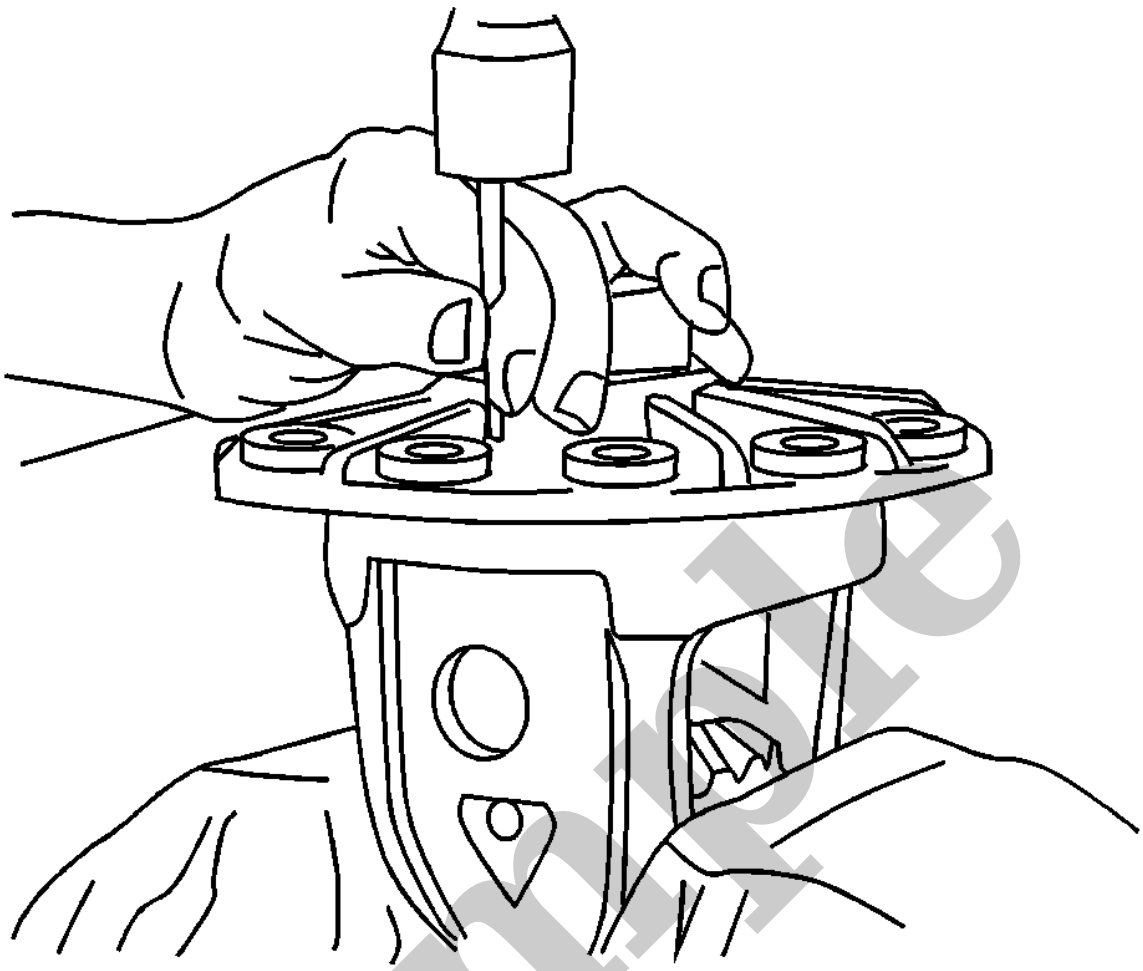
DTC	Diagnostic Procedure
	or P2827
P2720	Automatic Transmission - 6L80 (MYC) - DTC P2719-P2721
P2720	Automatic Transmission - 8L90 (M5U) - DTC P0658, P0659, P2718, P2720, P2721, P2727, P2729, P2730, P281B, P281D, or P281E
P2721	Automatic Transmission - 10L80 (MF6) - DTC P0960, P0962-P0964, P0966-P0968, P0970, P0971, P2670, P2671, P2718, P2720, P2721, P2727, P2729, P2730, P2736, P2738, P2739, P2824, P2826, or P2827
P2721	Automatic Transmission - 6L80 (MYC) - DTC P2719-P2721
P2721	Automatic Transmission - 8L90 (M5U) - DTC P0658, P0659, P2718, P2720, P2721, P2727, P2729, P2730, P281B, P281D, or P281E
P2723	Automatic Transmission - 10L80 (MF6) - DTC P2723 or P2724
P2723	Automatic Transmission - 6L80 (MYC) - DTC P2723 or P2724
P2723	Automatic Transmission - 8L90 (M5U) - DTC P2723 or P2724
P2724	Automatic Transmission - 10L80 (MF6) - DTC P2723 or P2724
P2724	Automatic Transmission - 6L80 (MYC) - DTC P2723 or P2724
P2724	Automatic Transmission - 8L90 (M5U) - DTC P2723 or P2724
P2727	Automatic Transmission - 10L80 (MF6) - DTC P0960, P0962-P0964, P0966-P0968, P0970, P0971, P2670, P2671, P2718, P2720, P2721, P2727, P2729, P2730, P2736, P2738, P2739, P2824, P2826, or P2827
P2727	Automatic Transmission - 8L90 (M5U) - DTC P0658, P0659, P2718, P2720, P2721, P2727, P2729, P2730, P281B, P281D, or P281E
P2728	Automatic Transmission - 6L80 (MYC) - DTC P2728-P2730
P2729	Automatic Transmission - 10L80 (MF6) - DTC P0960, P0962-P0964, P0966-P0968, P0970, P0971, P2670, P2671, P2718, P2720, P2721, P2727, P2729, P2730, P2736, P2738, P2739, P2824, P2826, or P2827

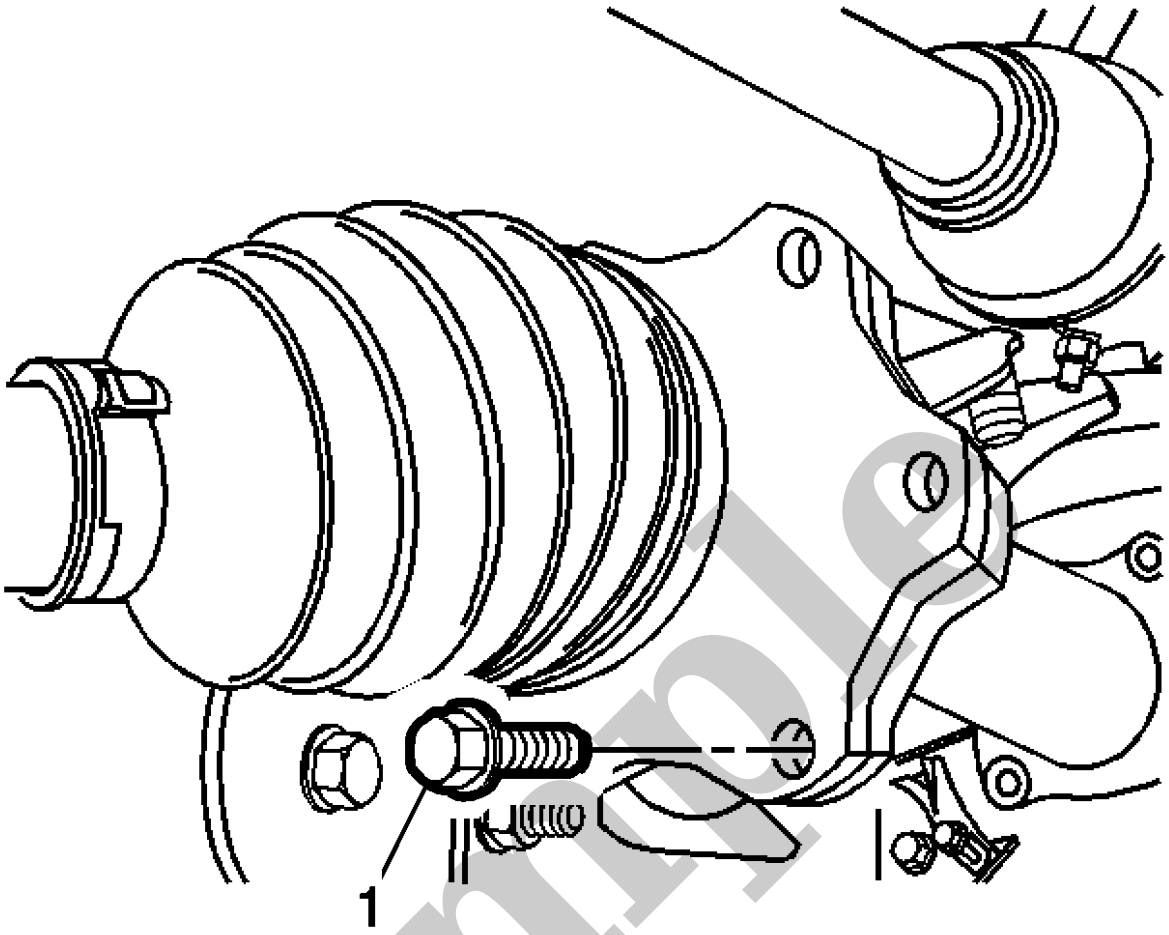
Parameter	System State	Expected Value	Description
Reductant Heater 2 Command	Ignition ON	On / Off	This parameter contains the commanded state of the reductant heater 2 output (the output is considered to be commanded on if its duty cycle is not zero) along with the status of its associated short to ground (Low side), short to power (Low side), short to ground (High side), short to power (High side) and open circuit tests
Reductant Heater 2 Control Circuit High Voltage Test Status	—	OK, Malfunction, Not Run	This parameter contains the commanded state of the reductant heater 2 output (the output is considered to be commanded on if its duty cycle is not zero) along with the status of its associated short to ground (Low side), short to power (Low side), short to ground (High side), short to power (High side) and open circuit tests
Reductant Heater 2 Control Circuit Low Voltage Test Status	—	OK, Malfunction, Not Run	This parameter contains the current feedback for the reductant heater 2 output.
Reductant Heater 2 Control Circuit Open Test Status	—	OK, Malfunction, Not Run	This parameter indicates the status of the NOx (Nitrogen Oxides) Reductant Tank.
Reductant Heater 2 Current	—	Amps	This parameter contains the current feedback for the reductant heater 2 output.
Reductant Heater 2 High Control Circuit High Voltage Test Status	—	OK, Malfunction, Not Run	This parameter contains the commanded state of the reductant heater 2 output (the output is considered to be commanded on if its duty cycle is not zero) along with the status of its associated short to ground (Low side), short to power (Low side), short to ground (High side), short to power (High side) and open circuit tests
Reductant Heater 2 High Control Circuit Low Voltage Test Status	—	OK, Malfunction, Not Run	This parameter contains the current feedback for the reductant heater 2 output.
Reductant Heater 1 Request	—	Off	This parameter displays the commanded state of the Reductant Heater 1. The Reductant Heater 1 should be On when the scan tool indicates the Reductant Heater 1 Command is ON.



14.

Remove the pinion shaft pin.

Use a hammer and a drift pin in order to drive out the pin.



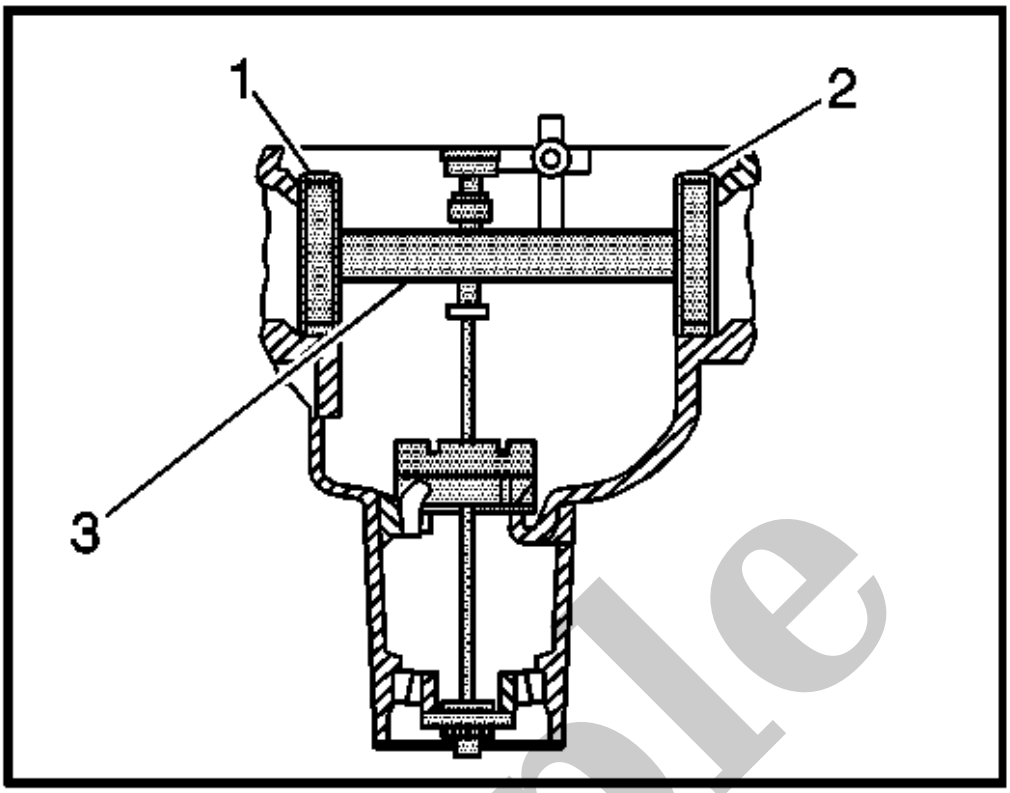
7. Remove the wheel drive shaft flange bolts (1).

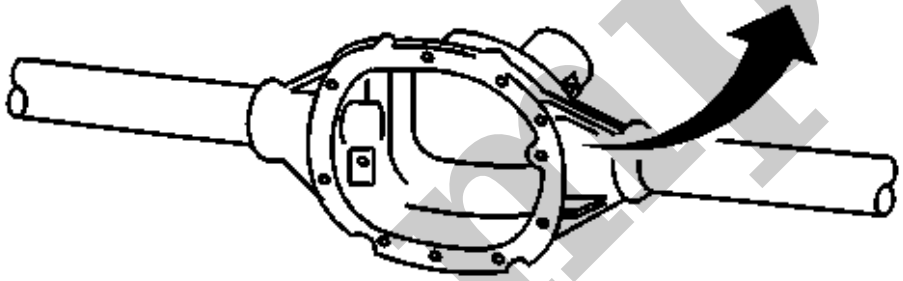
8. **NOTE**

   Note

   Support the wheel drive shaft in order to not over flex the constant velocity (CV) joint.

   Disconnect the wheel drive shaft from the inner axle shaft.





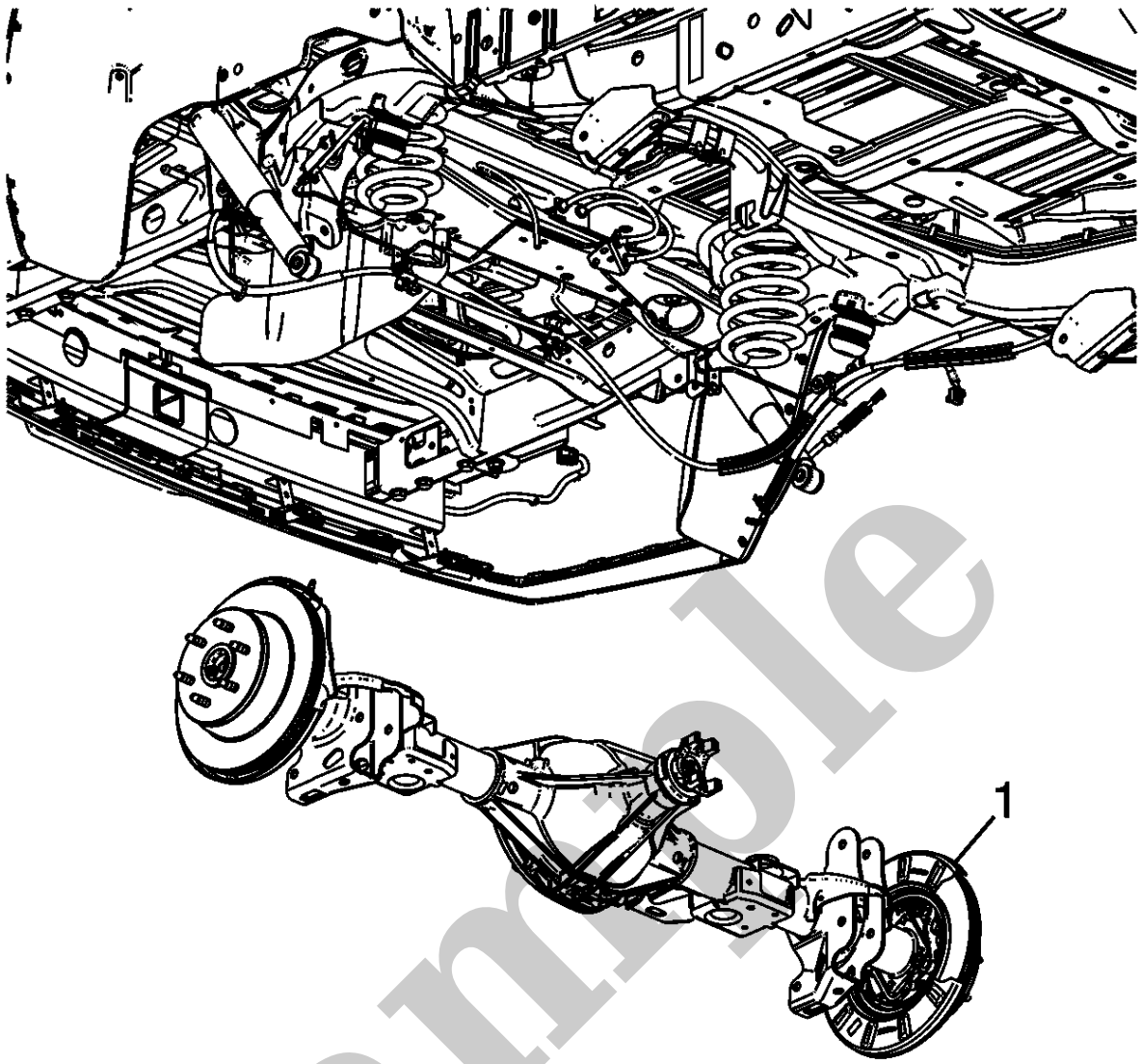
6. Install the **J-21777-45** (1 and 2) to the **J-21777-1** (3) into the differential carrier bores.
7. Install the bearing caps.
8. **CAUTION**

   Caution

   Refer to Fastener Caution.

   Install the bearing cap bolts and tighten to ***85 N·m (63 lb ft)*** .
9. Rotate the **J-21777-1** within the **J-21777-45** .

   The **J-21777-1** must rotate back and forth freely within the discs. If the **J-21777-1** does not rotate freely, disassemble the components, inspect for proper seating and/or mis-aligned components and re-assemble.



1. With the aid of an assistant, lower the vehicle on to the rear drive axle (1).
2. Install the lower shock absorber bolts, both sides, refer to Shock Absorber Replacement.
3. Install the lower control arm bolts, both sides, refer to Lower Control Arm Replacement.
4. Install the rear suspension upper trailing arm bolts, both sides, refer to Rear Suspension Upper Trailing Link Replacement.
5. Partially raise the vehicle.
6. Insert support stands under the rear drive axle.
7. Install the rear suspension upper trailing arm bolts, both sides, and tighten, refer to Rear Suspension Upper Trailing Link Replacement.
8. Install the lower shock absorber nuts, both sides, and tighten, refer to Shock Absorber Replacement.

Note

Verify if the customer is using their cellular data plan or the vehicle's OnStar data plan.

- Determine if the issue occurs in the same location or if it occurs in multiple locations.
- Devices may lose wireless phone projection connectivity from the vehicle due to interference from external WiFi signals.
- It is required for the device to be connected to the vehicle via Bluetooth and WiFi in order for wireless phone projection to operate.

Reference Information

Schematic Reference

Radio/Navigation System Schematics

Connector End View Reference

Master Electrical Component List

Description and Operation

Radio/Audio System Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Circuit/System Verification

1. Verify no DTC's are present.
    - **If any DTC's are present.**

      Refer to Diagnostic Trouble Code (DTC) List - Vehicle
    - **If no DTC's are present.**
2. Verify the correct settings on the radio and the connected device that will allow Apple CarPlay functionality.
    - **If the settings are not correct.**

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Radio Control Assembly Replacement
- Control Module References for control module replacement, programming, and setup.