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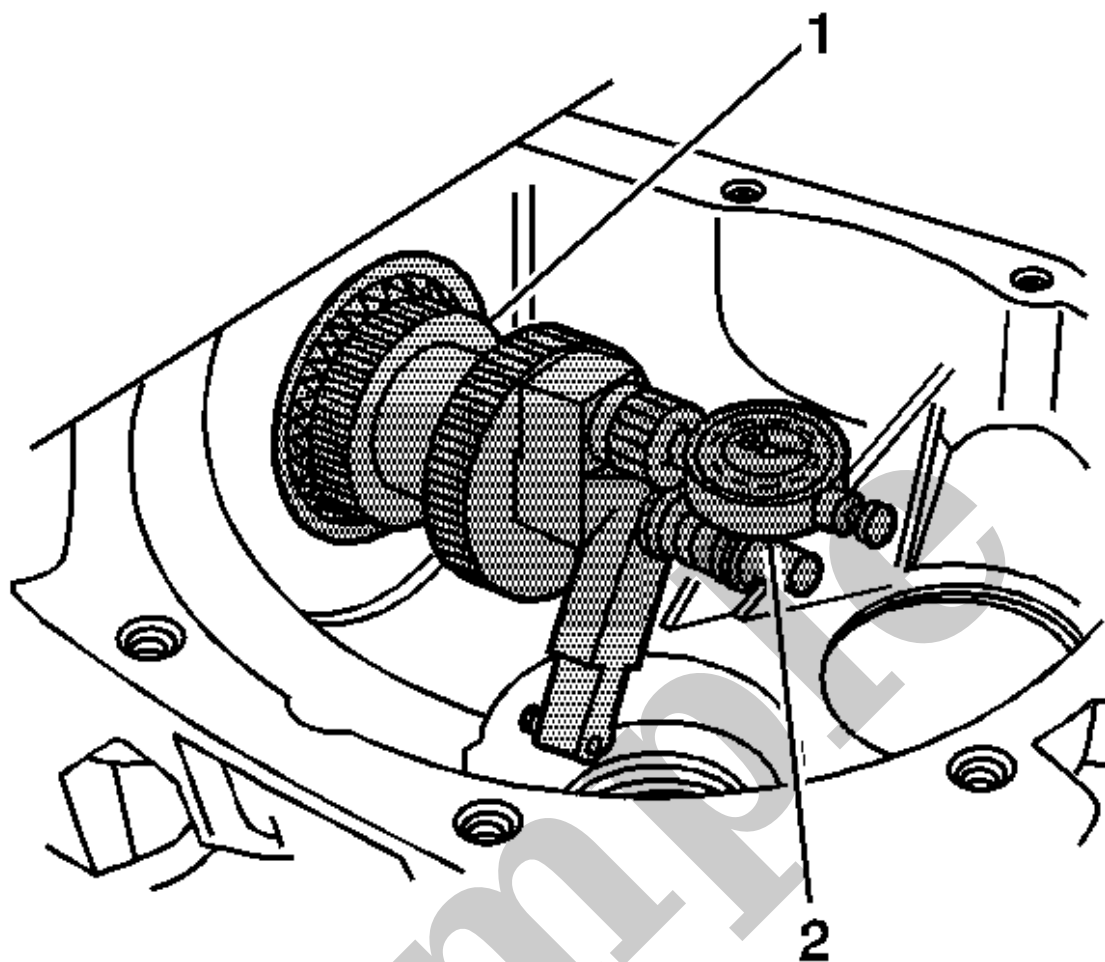
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2022 Chevrolet Spark Service and Repair Manual

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DTC	Diagnostic Procedure
P0265	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0267	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0268	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P026B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P026B, P05EC, P0601-P0607, P060A-P060D, P0610, P061C, P062B, P062F, P0630, P064D-P064F, P06D1, P08FF, P134C, P160A, P160D, P160E, P161C, P16E9-P16F0, P16F3, P2610, P262B, P264F, P27B5, P30D6-P30DD, P3186, or P3191
P0270	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0271	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0273	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0274	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0276	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0277	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0279	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0280	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283
P0282	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283

Parameter	System State	Expected Value	Description
Circuit Low Voltage Test Status			
Cylinder 1, 2, 3, 4, 5, 6, 7 or 8 Injector Control Circuit Open Test Status	Ignition ON	OK	This parameter displays the state of the injector control circuit. The parameter displays Malfunction if the injector control circuit is open.
Cylinder 1, 2, 3, 4, 5, 6, 7 or 8 Injector Flow Identifier	—	Varies	This parameter is used to correct the injected quantity of each injector When injectors are replaced or exchanged, the Injector Quantity adjustment values of the replaced or exchanged injectors have to be entered into the ECM to ensure acceptable engine performance regarding emissions
Cylinder 1, 2, 3, 4, 5, 6, 7 or 8 Pilot Injection Command	—	On/Off	This parameter displays the pilot injection status information for the injectors.
Cylinder 1, 2, 3, 4, 5, 6, 7 or 8 Post Injection Command	—	ms	This parameter displays the 2nd fuel injection time for Cylinder's 1–8.
Cylinder Head Temperature Sensor	—	°C (°F)	This parameter displays the cylinder head temperature in °C (°F).
Deceleration Fuel Cut-Off	—	Inactive	Decel Fuel Cut Off Active indicates that the conditions to enable deceleration fuel cut-off (DFCO) are active and that torque is being reduced by turning off one or more fuel injectors
Desired Boost Pressure	—	Varies	This parameter displays the Turbocharger Boost pressure as commanded by the control module. This parameter shows the turbocharger boost pressure in kPa.
Desired Cooling Fan Speed	—	RPM	This parameter displays the desired fan speed for engine driven fan systems.
Desired EGR Position	—	%	This parameter displays the position of the exhaust gas recirculation (EGR) valve commanded by the control module. The scan tool will display 0 percent when the control module is commanding the EGR valve closed. The scan tool will



13. Install the adjustment screw and the lock nut of the **J-29763 static timing gauge** (2) to the J-36601-4 or the J-36601-3.
14. Install the **J-29763 static timing gauge** to the adjustment screw and lock nut assembly.
- Tighten the lock nut to hold the **J-29763 static timing gauge** in place.

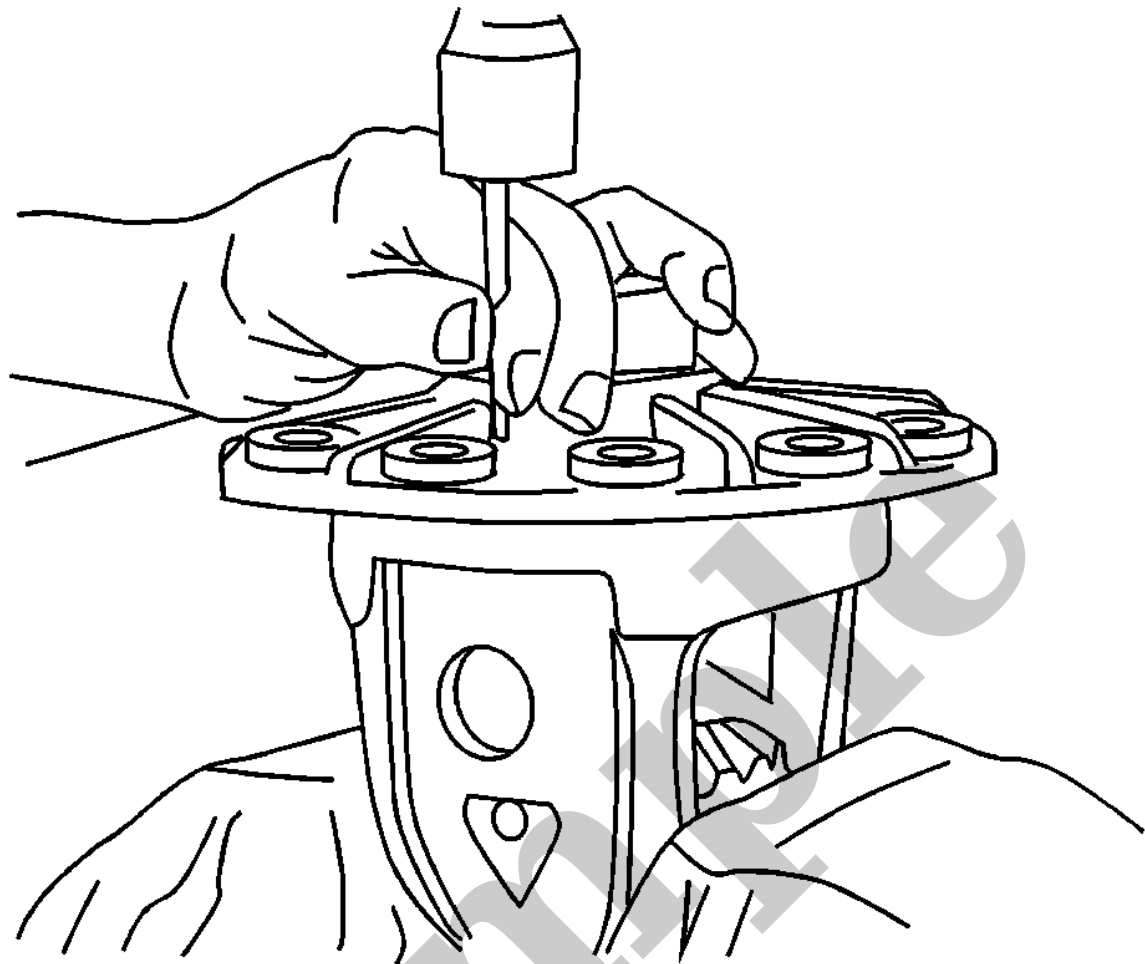
15. **NOTE**

Note

The left side differential bearing adjuster assembly on the 9.25 inch axle must be removed prior to placing the J 36601-3 in the differential side bearing bore.

Place the contact pad of the J-36601-4 or to the J-36601-3 into the differential side bearing bore.

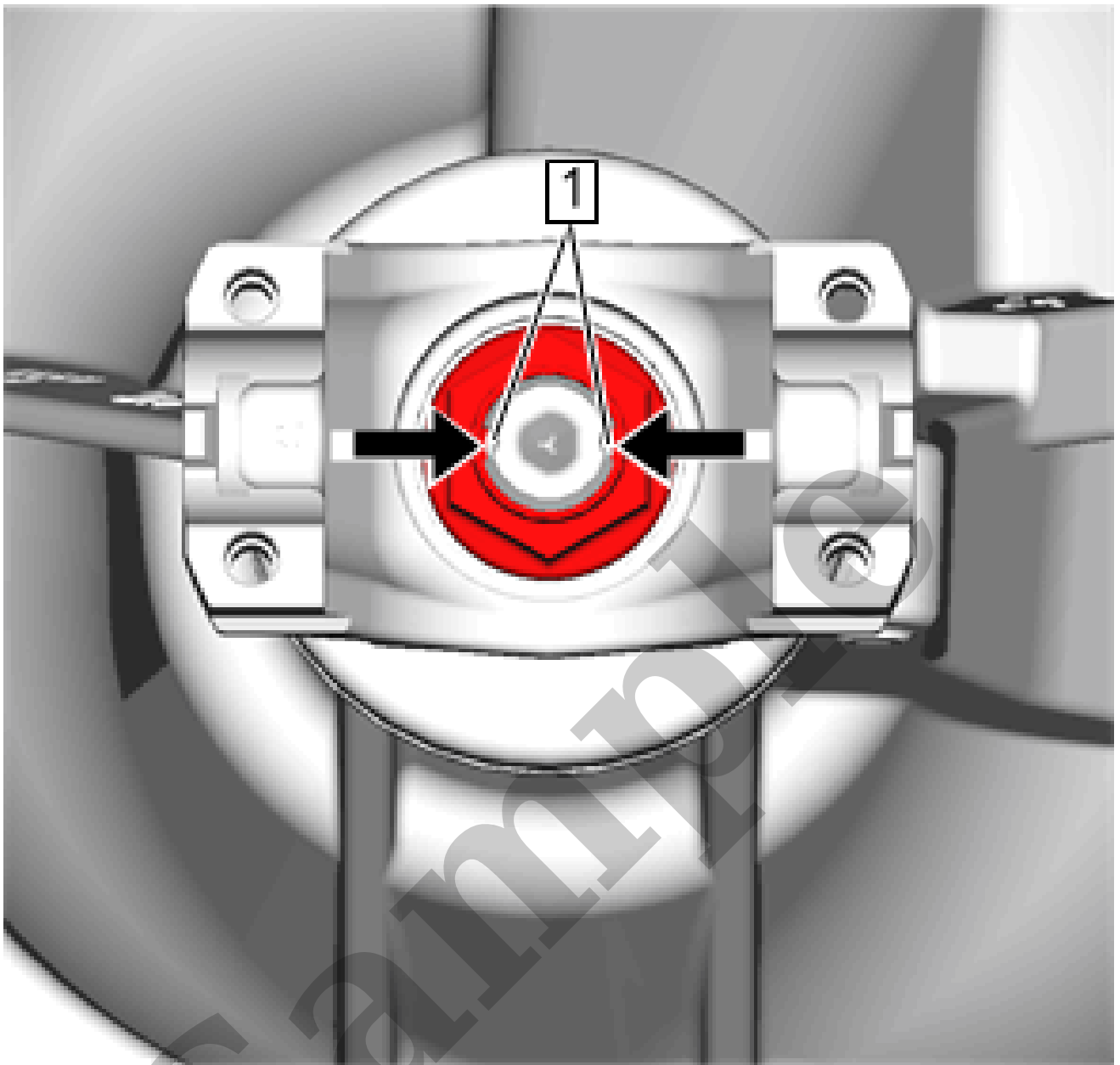
16. Adjust the **J-29763 static timing gauge** to the differential bearing bore by doing the following:



15.

Remove the pinion shaft pin.

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



4.

NOTE

Note

Nut MUST be staked for 9.5/9.76 Inch LD Axles.

Use a hammer and punch to stake two sides of the drive pinion nut lip to the corresponding grooves (1) in the drive pinion gear.

5. NOTE

Note



YOUR CURRENT VEHICLE

Differential Oil Replacement

Differential Oil Replacement (9.5/9.76 Inch Axle)

Removal Procedure

1. Raise the vehicle. Refer to [Lifting and Jacking the Vehicle](#).
2. Clean the area around the rear axle fill plug.



6. Test or replace the A10 Inside Rearview Mirror.

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the repair.

- [Inside Rearview Mirror Replacement](#)
- [Control Module References](#) for telematics communication interface control module replacement, programming and setup.

5. Disconnect the vehicle USB cable X4 harness connector at the K74 Human Machine Interface Control Module and the X2 harness connector at the X92 USB Receptacle.
6. Connect the EL-50034-14 Infotainment Test Cable and the EL-50334-2 Type-A Female to Mini-B Male Cable together. Connect the assembled test cable to the K74 Human Machine Interface Control Module and the X92 USB Receptacle.
7. Ignition ON, infotainment system ON.
8. Connect the EL-50334-20 Multi-Media Interface Tester (MIT) to the X92 USB Receptacle USB port and select the USB test mode.
9. Verify the audio from the EL-50334-20 Multi-Media Interface Tester (MIT) is heard through the infotainment system while operating the system to play audio from the test tool.
 - **If audio is not heard from the test tool**
 1. Replace the X92 USB Receptacle. Connect all harness connectors.
 2. Connect the EL-50334-20 Multi-Media Interface Tester (MIT) to the X92 USB Receptacle USB port and select the USB test mode.
 3. Verify the audio from the EL-50334-20 Multi-Media Interface Tester (MIT) is heard through the infotainment system while operating the system to play audio from the test tool.
 - If audio is not heard from the test tool, replace the K74 Human Machine Interface Control Module.
 - If audio is heard from the test tool.
 4. All OK.
 - **If audio is heard from the test tool**
10. Connect the vehicle USB cable X4 harness connector at the K74 Human Machine Interface Control Module.
11. Disconnect the console to I/P USB in-line connector. Connect the assembled test cable to the I/P side of the in-line USB cable connector and the X92 USB Receptacle.
12. Connect the EL-50334-20 Multi-Media Interface Tester (MIT) to the X92 USB Receptacle USB port and select the USB test mode.
13. Verify the audio from the EL-50334-20 Multi-Media Interface Tester (MIT) is heard through the infotainment system while operating the system to play audio from the test tool.
 - **If audio is not heard from the test tool**