Your Ultimate Source for OEM Repair Manuals

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.

2019 Chevrolet Traverse - FWD Service and Repair Manual

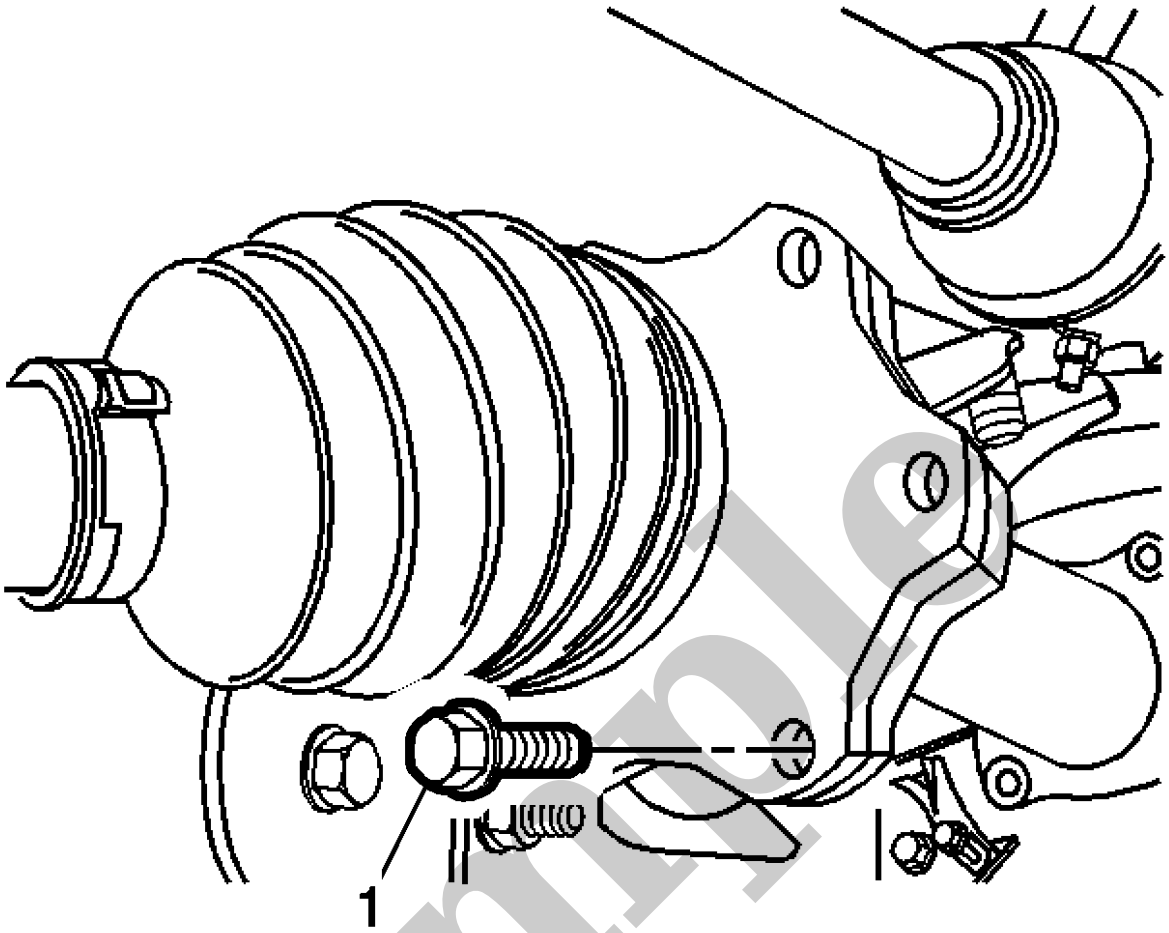
Go to manual page

At this point, the system will read the VIN from the engine control module (ECM) using the multiple diagnostic interface (MDI) and then retrieve the applicable genealogy data tree from the cloud. This data tree accesses the original characterization data so that it may be updated with the new component information. The system acquires characterization data for the given TUN/PUN via the cloud and updates the genealogy tree. The TCM is updated with the correct solenoid characterization data, and the cloud is updated with the new genealogy relationship.

Parameter	System State	Expected Value	Description
Command			
Fuel Pressure Regulator 1 Control Circuit High Voltage Test Status	—	OK	This parameter displays the status of the output driver for the Fuel Pressure Regulator 1 Control Circuit High. The parameter displays Malfunction if the Fuel Pressure Regulator 1 Control Circuit High is shorted to voltage.
Fuel Pressure Regulator 1 Control Circuit Low Voltage Test Status	—	OK	This parameter displays the status of the output driver for the Fuel Pressure Regulator 1 Control Circuit High. The parameter displays Malfunction if the Fuel Pressure Regulator 1 Control Circuit High is shorted to ground.
Fuel Pressure Regulator 1 Control Circuit Open Test Status	—	OK	This parameter displays the status of the output driver for the Fuel Pressure Regulator 1 Control Circuit High. The parameter displays Malfunction if the Fuel Pressure Regulator 1 Control Circuit High is open.
Fuel Pressure Regulator 1 Control Circuit Shorted Test Status	—	OK	This parameter displays the status of the output driver for the Fuel Pressure Regulator 1 Control Circuit. The parameter displays Malfunction if the Fuel Pressure Regulator 1 Circuit is shorted.
Fuel Pressure Regulator 1 Control Driver Overtemperature	—	No	This parameter displays the state of the Fuel Pressure Regulator 1 Control Driver circuit. The parameter displays Yes if the Fuel Pressure Regulator 1 Control Driver Overtemperature is detected.
Fuel Pressure Regulator 1 Current	—	mA	This parameter displays the actual current for the Fuel Pressure Regulator 1.
Fuel Pressure Regulator 1 High Control Circuit Command	—	On	This parameter displays the status of the Fuel Pressure Regulator 1 High Control Circuit Command. The parameter displays ON when the Fuel Pressure Regulator 1 High Control Circuit is Commanded ON by the engine control module.
Fuel Pressure Regulator 1 High Control Circuit High Voltage Test Status	—	OK	This parameter displays the state of the Fuel Pressure Regulator 1 High Control Circuit. The parameter displays Malfunction if the Fuel Pressure Regulator 1 High Control Circuit is shorted to voltage.
Fuel Pressure Regulator 1 High Control Circuit	—	OK	This parameter displays the state of the Fuel Pressure Regulator 1 High Control Circuit. The parameter displays

Parameter	Expected Value	Definition
App 3 Version	Varies	The scan tool displays the version number for the installed internet application number 3
App 4 Identifier	Varies	The scan tool displays the numeric identifier for the installed internet application number 4
App 4 Version	Varies	The scan tool displays the version number for the installed internet application number 4
App 5 Identifier	Varies	The scan tool displays the numeric identifier for the installed internet application number 5
App 5 Version	Varies	The scan tool displays the version number for the installed internet application number 5
App 6 Identifier	Varies	The scan tool displays the numeric identifier for the installed internet application number 6
App 6 Version	Varies	The scan tool displays the version number for the installed internet application number 6
App 7 Identifier	Varies	The scan tool displays the numeric identifier for the installed internet application number 7
App 7 Version	Varies	The scan tool displays the version number for the installed internet application number 7
App 8 Identifier	Varies	The scan tool displays the numeric identifier for the installed internet application number 8
App 8 Version	Varies	The scan tool displays the version number for the installed internet application number 8

Human Machine Interface Scan Tool Output Controls



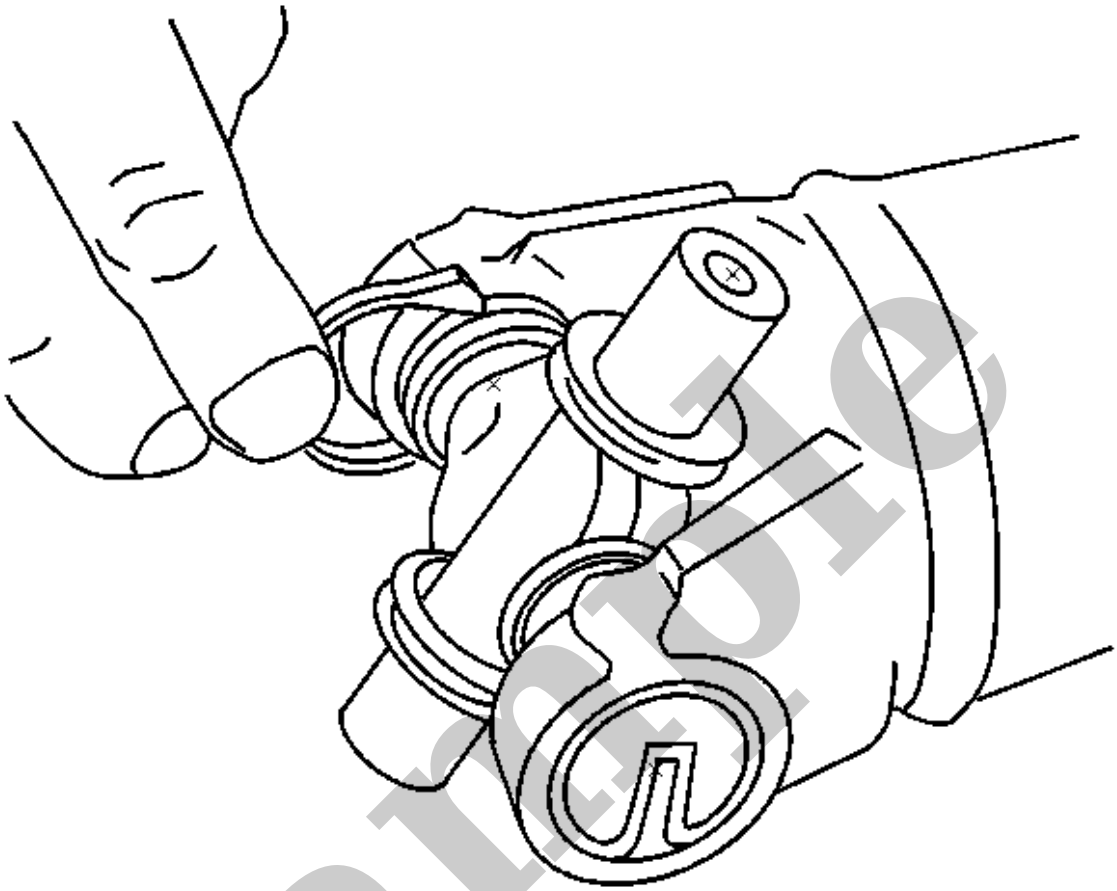
7. Remove the wheel drive shaft mounting bolts (1).
8. Remove the front propeller shaft. Refer to Front Axle Propeller Shaft Replacement.
9. **NOTE**

   Note

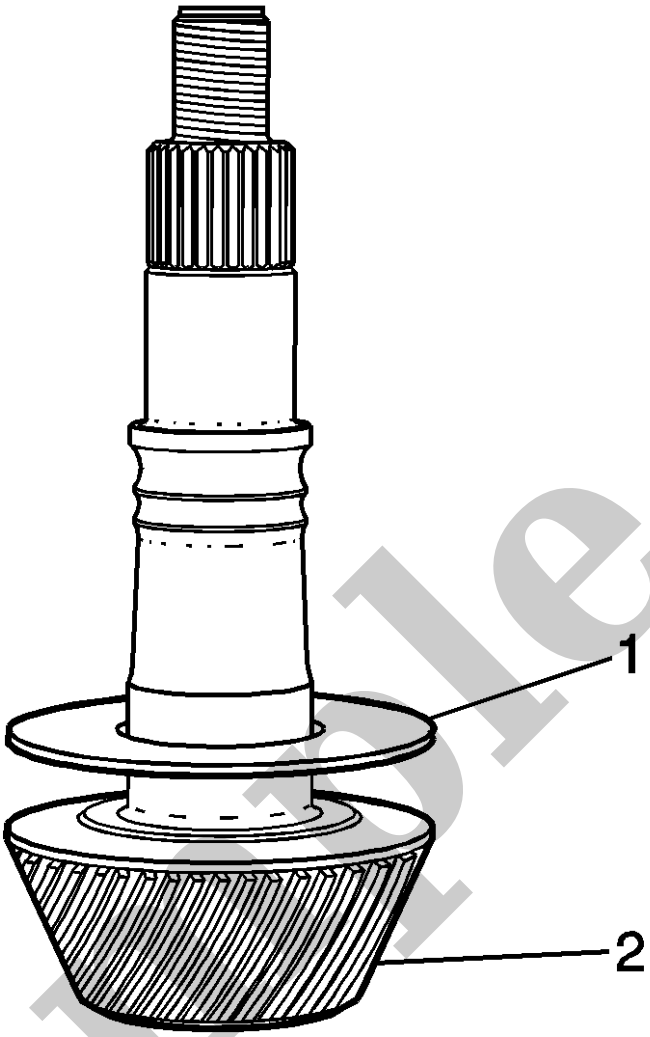
   Ensure that the front axle is securely attached to the hydraulic jack.

   Support the front axle assembly with a hydraulic jack.

Press the bearing cup into the yoke until the bearing cup retainer groove is visible over the top of the bearing cup.



9. Assemble the bearing retainer in the retainer groove.
10. Continue pressing until both retainers can be snapped into place.



5.

Remove the shim (1).

8. Ignition ON, infotainment system ON.
9. Connect the EL-50334-20 Multi-Media Interface Tester (MIT) to the X92 USB Receptacle USB port and select the USB test mode.
10. 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**
11. Connect the vehicle USB cable X4 harness connector at the K74 Human Machine Interface Control Module.
12. 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.
13. Connect the EL-50334-20 Multi-Media Interface Tester (MIT) to the X92 USB Receptacle USB port and select the USB test mode.
14. 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 I/P USB cable assembly.
    - **If audio is heard from the test tool**
15. Replace the console USB cable assembly.

    Instrument Panel Compartment USB Port (If equipped)

7. Verify that audio is heard from channel 2 on each headphone, using the headphone controls to select channel 2.
    - **If audio is heard from some, but not all, headphones.**

      Replace the inoperative headphone.
    - **If audio is not heard from any headphones, or the audio heard is not clear.**

    1. Replace the P22A Video Display– 2nd Row.
    2. Ignition ON, rear seat entertainment system ON. Using the remote control, select an audio source for channel 2.
    3. Verify that audio is heard from channel 2 on each headphone, using the headphone controls to select channel 2.
        - If audio is heard from some, but not all, headphones, replace the inoperative headphone.
        - If audio is not heard from any headphones, or the audio heard is not clear, replace the A33 Media Disc Player.
        - If audio is heard from all headphones.
    4. All OK.
    - **If clear audio is heard from all headphones.**
8. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Video Display Replacement
- Control Module References for media disc player replacement, programming, and setup.