

# Z1 OFFROAD E-LOCKER EXTENSION HARNESS INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2005-2021	Nissan Frontier (D40, M226)
2022+	Nissan Frontier (D41, M226)
2005-2015	Nissan Xterra (N50, M226)

**PROLOGUE:**

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

**WARNING!**

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Off-Road E-Locker Extended Harness, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
Extended Harness		
1	1	Extended Harness
2	2	Zip Tie
Inline Harness		
3	1	Inline Harness
4	2	Zip Tie

## **TOOLS REQUIRED:**

- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets
- Assorted Metric Wrenches
- Torque Wrench

## **SAFETY REQUIREMENTS:**

- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Only operate drivetrain in safe space and well-ventilated areas.

## **BEFORE YOU BEGIN:**

Remove contents from the Z1 Off-Road E-Locker Extension Harness and verify that ALL necessary hardware is present.

## **EXTENDED HARNESS**

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. In the rear of the vehicle on the side of the Differential, disconnect the (2) two electrical connectors for the E-Locker. *Figure 1.*



*Figure 1*

3. Unbolt the bracket for the OE E-Locker Harness at the top of the frame. *Figure 2.*



*Figure 2*

4. Disconnect the OE E-Locker Harness from the Driver Side Connector. *Figure 3.*



*Figure 3*

5. Remove the OE E-Locker Harness from the vehicle.
6. Unclip and remove the Bracket disconnected in *Step 3* from the OE E-Locker Harness. *Figure 4.*



*Figure 4*

7. Install the Bracket removed in *Step 6* onto the new Z1 Extended Harness.
8. Plug the Z1 Extended Harness into the (2) two connectors on the Differential.
9. Route the Z1 Harness up and to the Driver Side Connector. Adjust the Clip/Bracket as needed and bolt it back onto the vehicle.
10. Adjust the Wiring Harness as necessary and zip tie the Harness to prevent it from hanging or catching objects. Make sure there is enough slack to prevent the harness from stretching when the suspension is at full droop.



## **INLINE HARNESS**

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Disconnect the OE E-Locker Harness from the Driver Side Connector. *Figure 5.*



*Figure 5*

3. Unbolt the bracket for the OE E-Locker Harness at the top of the frame. *Figure 6.*



*Figure 6*

4. Unclip and remove the Bracket disconnected in *Step 3* from the OE E-Locker Harness. *Figure 7*.



*Figure 7*

5. Transfer the Bracket removed in *Step 4* onto the new Z1 Inline Harness.
6. Cut the plastic clips off of the OE Harness. *Figure 8*.



*Figure 8*

7. Connect the Z1 Inline Connector to the OE E-Locker Harness and to the connector on the Driver Side. Route it over the top of the Frame as shown below. *Figure 9.*



*Figure 9*

8. Use the supplied Zip Ties to secure the Wiring Harness up and out of the way. Provide enough slack to prevent the Harness from stretching when the suspension is at full droop.

**END**

**Additional Technical Support:**

Contact Z1 Off-Road at [info@z1offroad.com](mailto:info@z1offroad.com)  
Or call 678-839-8019 between 9am and 6pm ET