

# Z1 HR/VHR UPGRADED CSC INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2007-2008	Nissan 350Z
2009-2020	Nissan 370Z

### 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 Motorsports HR/VHR Upgraded Concentric Slave Cylinder (CSC), consult with a Professional Mechanic or contact Z1 Motorsports for more information.

## **PARTS INCLUDED:**

Item	Quantity	Description
1	1	Z1 x Tilton HRB
2	1	Z1 CSC Dust Shield
3	1	Clutch Line
4	1	Bleeder Line
5	2	M6-1.0 x 20mm Flange Hex Bolt

## **TOOLS REQUIRED:**

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- 10mm Socket
- 7/16" Wrench
- 1/2" Wrench
- 11/16" Wrench
- T30 Torx Bit/Socket

## **SAFETY REQUIREMENTS:**

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

## **BEFORE YOU BEGIN:**

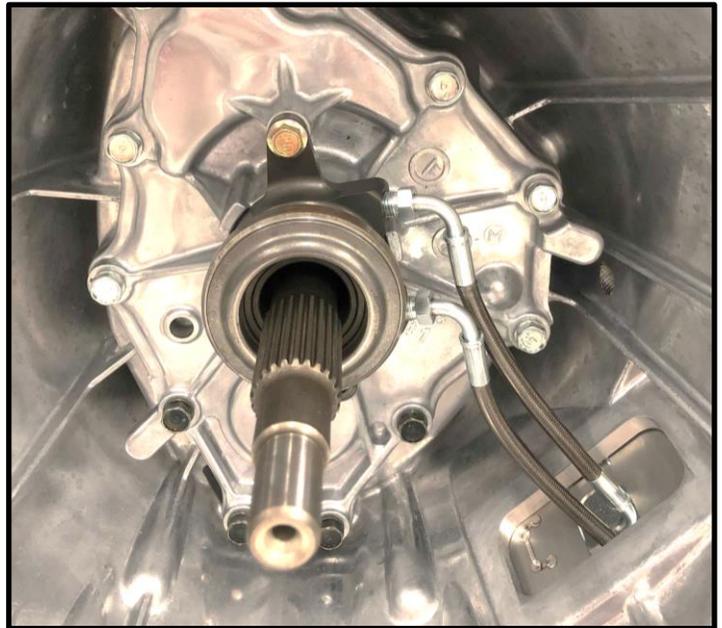
Remove contents from the Z1 Motorsports HR/VHR Upgraded Concentric Slave Cylinder (CSC) and verify that ALL necessary hardware is present.

## **PROCEDURE:**

1. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
2. Refer to Factory Service Manual (FSM) to remove the transmission.
3. Disconnect the lock pin securing the clutch line to the CSC. Remove line from CSC.
4. Remove dust boot cover, clutch line tubes, bleeder valve, and bracket. Retain the Torx screw used to attach the bracket to the transmission as this will be reused later.
5. Disconnect (2) bolts securing CSC to transmission. Remove CSC.
6. Locate new Z1 x Tilton CSC. Attach CSC to transmission using (2) supplied M6 flange bolts. Assure the CSC is oriented so that the ports face the opening in the bellhousing. Torque bolts to 80in-lbs (6.66ft-lbs).
7. Locate the clutch line, bleeder line, and Z1 CSC dust shield. Attach Z1 dust shield to transmission using the mounting hole and the Torx screw from step #4. Torque screw to 80in-lbs (6.66ft-lbs).



8. Run the clutch line (longer of the two) through the dust shield and thread into the bottom port on the CSC (as shown).
9. Run the bleeder line through the dust shield and slot the bleeder end into the “seat” on the dust shield. While holding the bleeder in place, thread the fitting on the opposite side into the CSC (as shown). Tighten both fittings.



10. Refer back to FSM to install the transmission.

11. Once the transmission is back in the vehicle, connect the new clutch line to the perch on the inside of the driver frame, where the OE clutch line was disconnected from (shown below). Make sure to reinstall the metal clip to secure it in place.



12. Bleed the lines using the bleeder port on the outside of the bellhousing. The “seat” for the bleeder is intended to hold the line in place and only require (1) wrench to open and close the bleeder valve.
13. Start vehicle. While at idle, check for leaks or faulty operation of Z1 Upgraded CSC.
14. Perform a final test drive of vehicle.

**END**

**Additional Technical Support:**  
Contact Z1 Motorsports at [info@z1motorsports.com](mailto:info@z1motorsports.com)  
Or call 770-838-7777 between 9am and 6pm ET