

Z1 VHR AC DELETE BRACKET INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2009-2020	Nissan 370Z
2008-2015	Infiniti G37
2014-2015	Infiniti Q50
2014-2016	Infiniti Q60

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 VHR AC Delete Bracket, consult with a Professional Mechanic, or contact Z1 Motorsports for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	AC Delete Bracket
2	1	Spacer
3	1	7-Rib Pulley, 115mm
4	1	M10 x 1.5 Flange Bolt, 60mm
5	1	M6 x 1.0 Socket Head Screw, 12mm
6	2	M8 x 1.25 Socket Head Screw, 25mm

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Wrenches
- Assorted Metric Sockets
- 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 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 VHR AC Delete Bracket and verify that ALL necessary hardware is present.

PROCEDURE:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.
3. Open and support the hood of the vehicle.
4. Discharge and collect AC Refrigerant properly.
5. Using a Long Ratchet, loosen the Belt Tensioner and slip the Drive Belt off of the AC Compressor.
6. Remove the Driver Side Air Filter, if necessary, it may block your access to the AC Compressor.
7. Remove the Mounting Nuts (A) that secure the High and Low Pressure Hoses (1 and 2) to the AC Compressor. *Figure 1.*

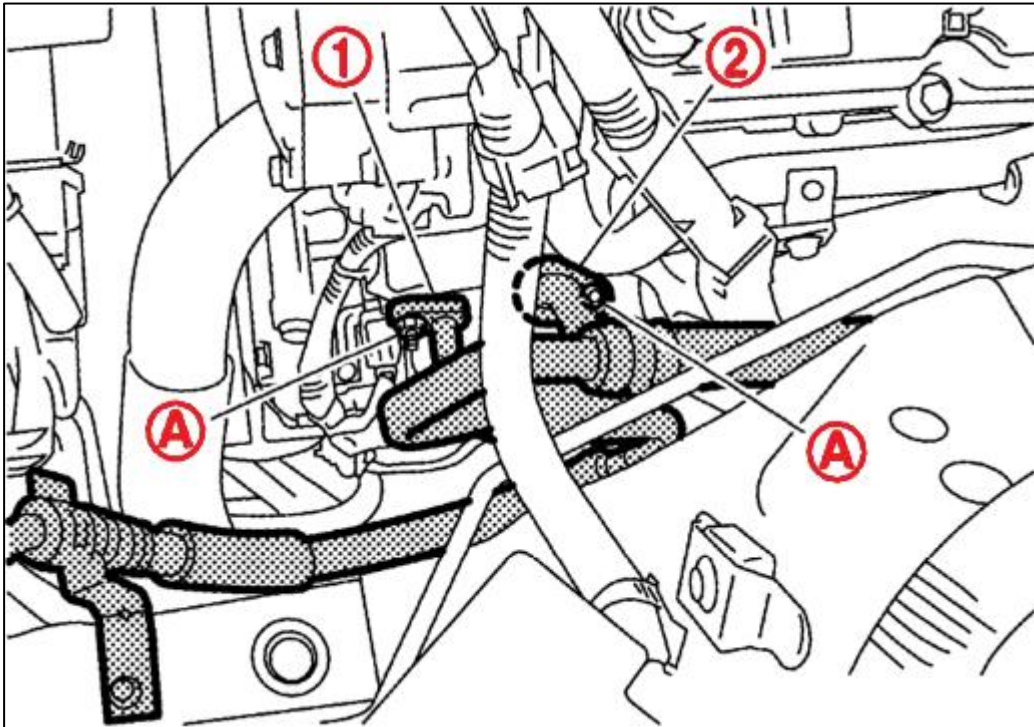


Figure 1

8. Disconnect the ECV Connector (A) and the Magnet Clutch Connector (B). *Figure 2.*

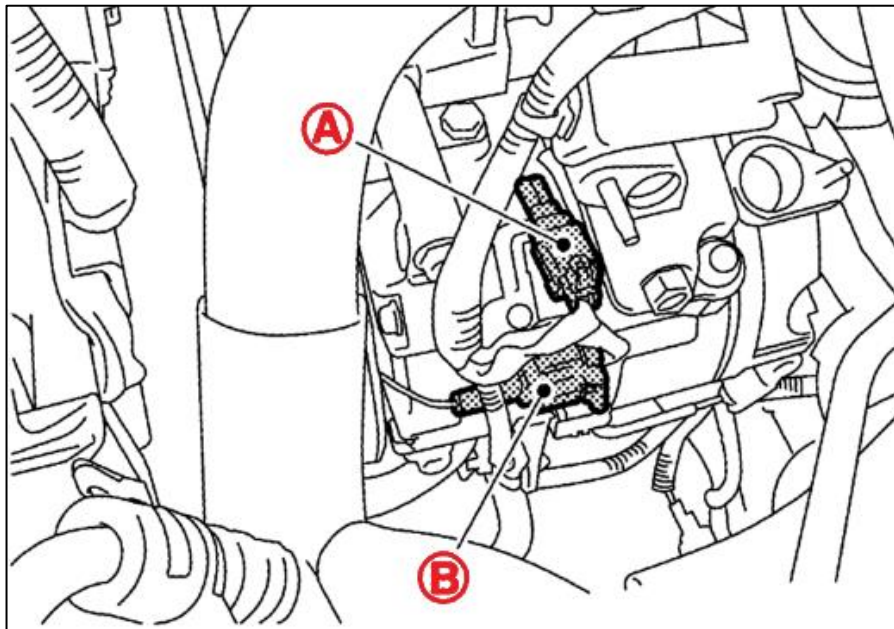


Figure 2

9. Move/loosen the Front Sway bar for better access if necessary.
10. Remove the Wiring Harness Clips from the AC Compressor (A-B).
11. Remove the (3) three mounting bolts from the AC Compressor (C) and remove the AC Compressor (2) from the vehicle. *Figure 3.*

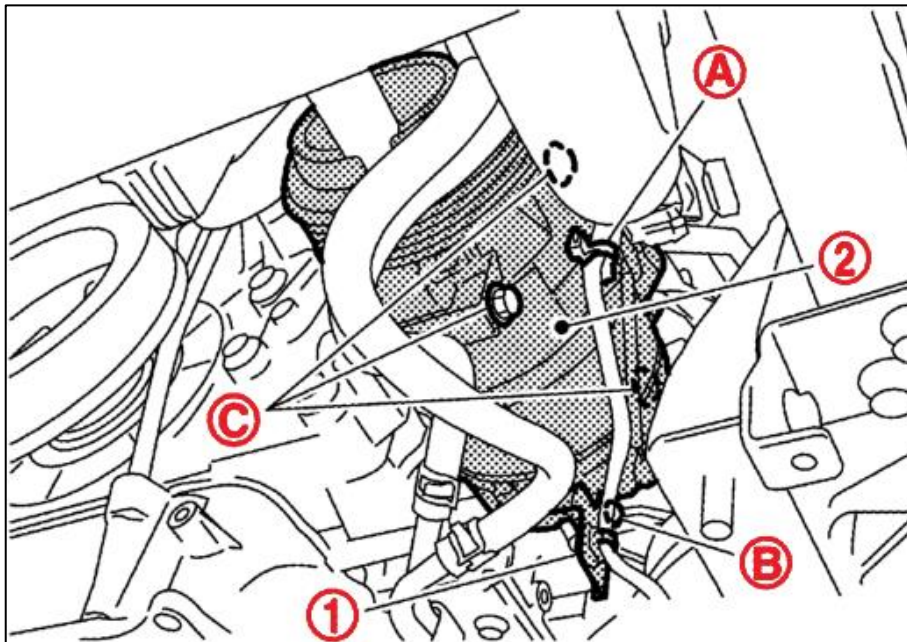


Figure 3

12. Remove the bolt circled below on the Timing Cover. *Figure 4.*

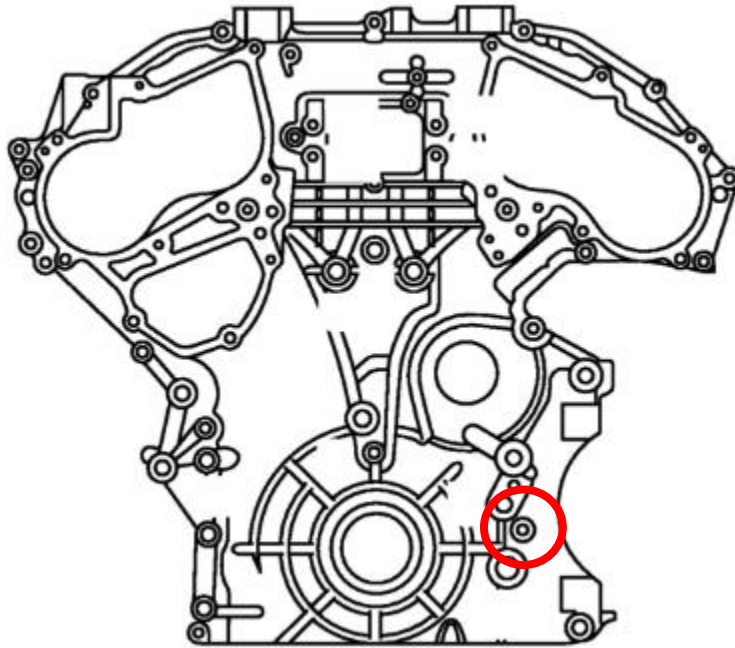


Figure 4

13. Your Engine should look similar to *Figure 5* below.

NOTE: The following Figures show an engine on an engine stand and will look slightly different than an engine installed in a car.

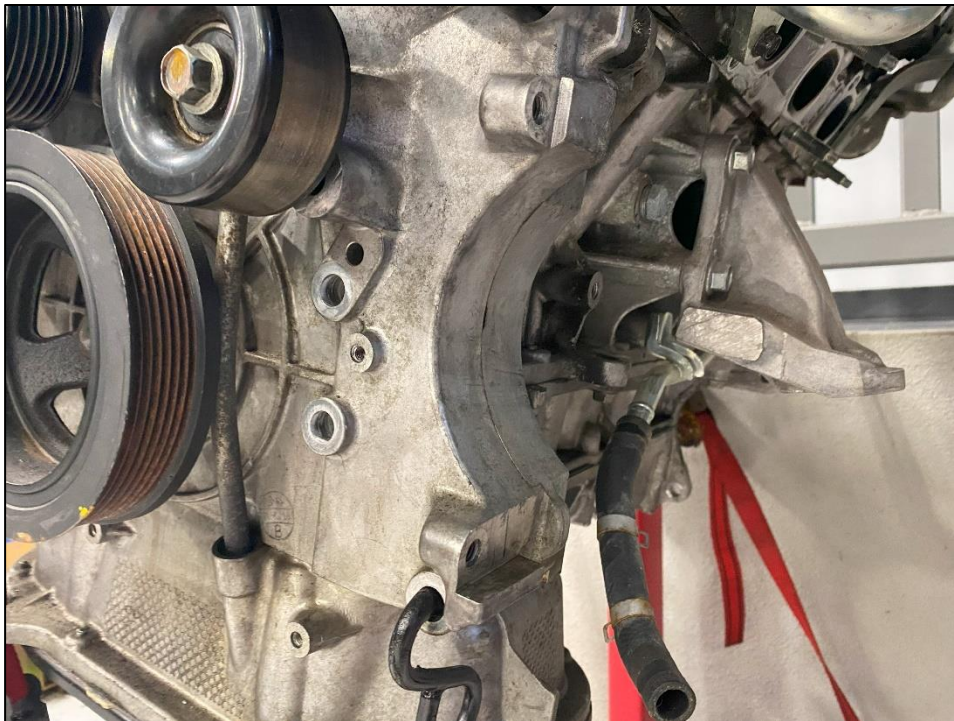


Figure 5

14. Locate the AC Delete Bracket, (1) one M6 x 1.0 Socket Head Screw, 12mm, and (2) two M8 x 1.25 Socket Head Screws, 25mm. Position the Bracket onto the mounting points for the AC Compressor removed in the previous step. Secure the Bracket to the Engine Block with the M6 Bolt and M8 bolts. Torque the M8 Bolts to **23 ft-lbs**. Torque the M6 Bolt to **9 ft-lbs**. *Figure 6.*

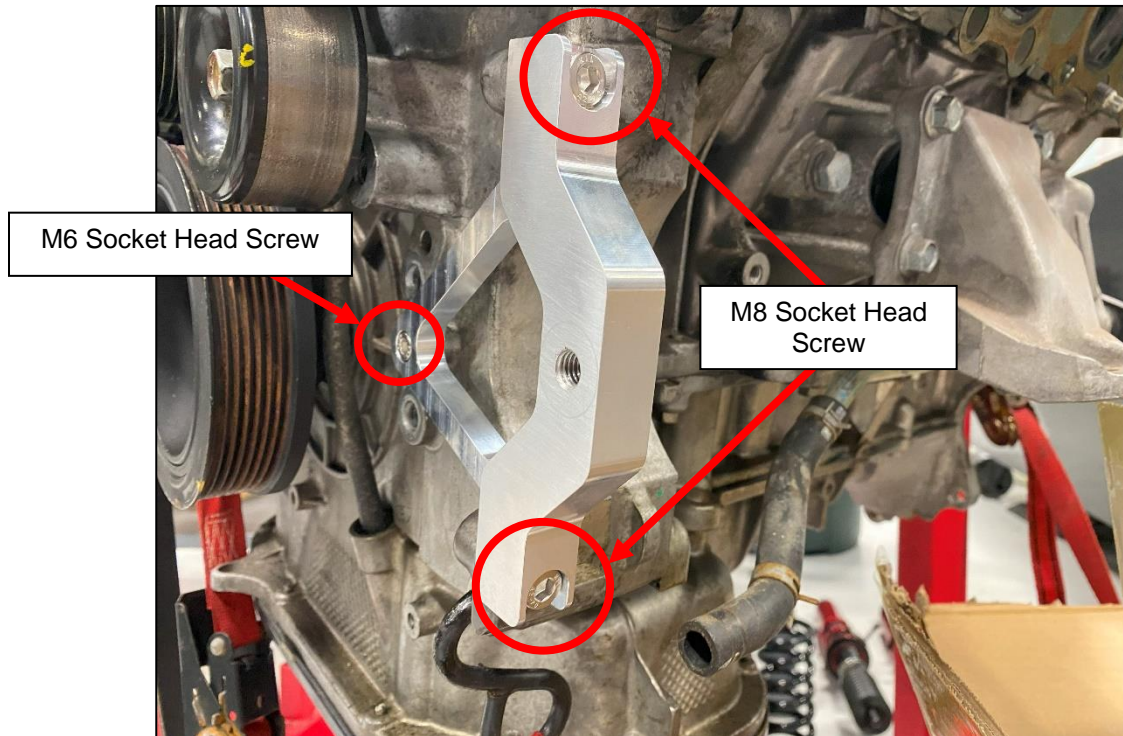


Figure 6

15. Locate the Spacer, 7-Rib Pulley, and the M10 x 1.5 Flange Bolt, 60mm. Place the M10 Bolt through the Pulley, with the Spacer behind the pulley. Install this assembly onto the AC Delete Bracket. The order should be **BOLT** → **PULLEY** → **SPACER** → **BRACKET**. Torque the M10 Bolt to **36 ft-lbs**. *Figure 7.*

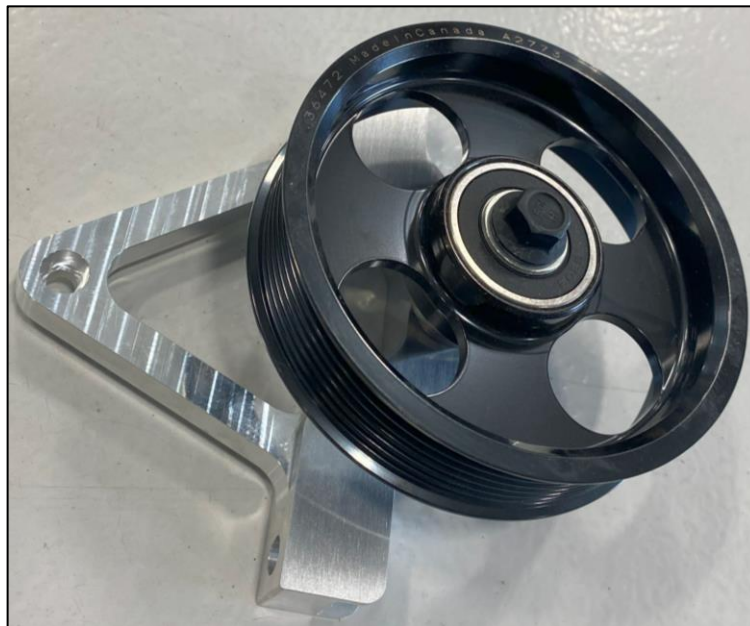


Figure 7

16. Reinstall the Drive Belt onto the AC Delete Bracket Pulley. Once positioned, retighten the Pulley Tensioner.
17. The rest of the AC System is highlighted below and can be optionally removed if desired. Cap off any lines if they are left open. *Figure 7.*

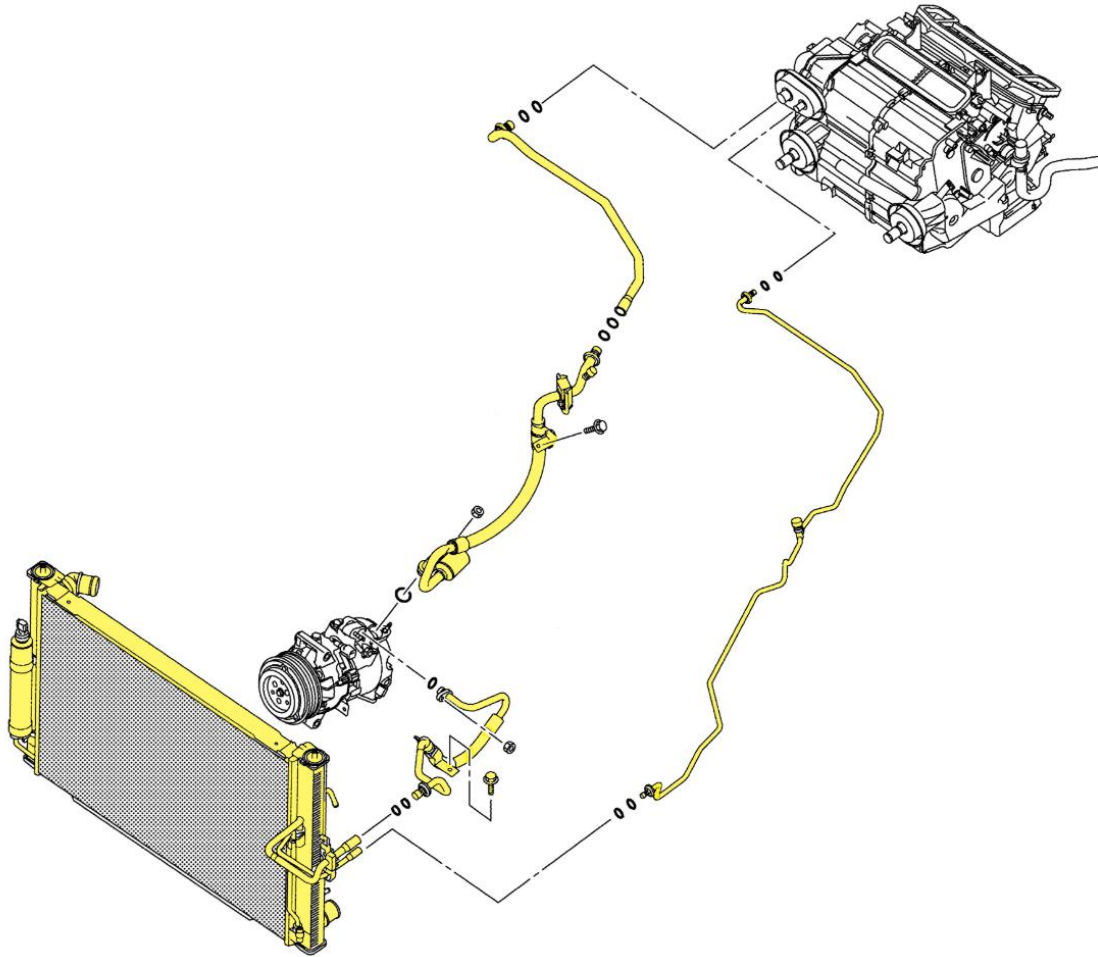


Figure 8

18. Account and remove any tools.
19. Take your vehicle for a test drive.

END

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