

2012 Nissan NV2500

V6 4.0 LITER ENGINE

Uses TM-15/16, 119mm Poly Groove Compressor

2982

TYPE B

PARTS LIST

2	6m-1.0 x 25 Bolt	2	12" Black Heavy Duty Zip Tie
1	6m-1.0 x 30 Bolt	1	C-3438 Hose Clamp
1	6m Flat Washer	1	L-96-5 Tab
3	6m Lock Washer	1	1/2" x 2" Heater Hose
1	8m-1.25 x 30 Bolt	2	1/2" Hose Splice
4	8m-1.25 x 35 Bolt	4	#8 Worm Gear Clamp
1	8m-1.25 x 110 Bolt	1	89008 Pulley
1	8m Flat Washer	1	10m Bearing Bushing
6	8m Lock Washer	1	65m Backside Idler Pulley
1	8m Star Washer	1	30mbb406 Bearing Bushing
1	10m-1.5 x 25 Bolt	1	3/4" x 7/16" x 1/2" Mount Spacer
3	10m-1.5 x 30 Bolt JIS Head	1	7/8" x 15/32" x .910" Idler Spacer
6	10m-1.5 x 35 Bolt	1	3/8" x 10" Wire Loom
1	10m-1.5 x 45 Bolt	1	3/8" x 30" Wire Loom
1	10m-1.5 x 55 Bolt	1	3/8" x 15-1/2" Wire Loom
1	10m-1.5 x 60 Bolt	1	5/8" x 8-1/2" Wire Loom
3	10m-1.5 x 110 Bolt	1	32" Battery Cable
1	10m-1.25 x 120 Bolt	1	1-1/2" x 13/32" x 3/4" Spacer
9	10m Flat Washer	1	1177K-7 Belt
17	10m Lock Washer	1	2982-1 Compressor Mount
1	10m Star Washer	1	2982-2 Idler Mount
4	10m-1.5 Nut	1	2982-3 Line Brace
9	6" Black Zip Tie	1	2982-4 Manifold

Brackets in kit may vary in physical appearance from those in photographs. All kits designed by BSI are designed on an engine and in most cases will fit your application without any modification. However, in some cases, your application may have slight differences in the hoses, wire harnesses, turbo tubes, etc. It is the responsibility of the installer to modify, maneuver or change position of such items that may be in the way during installation. BSI will not be responsible to make a change to kits for modifications such as these.

All photographs in this installation guide are representative to show installation location only. The physical appearance of your vehicle may vary. In some cases, the bracket design changed slightly after the photo's were taken and the vehicle was no longer available for new photo's. If the actual part looks different from the photo, follow the written instructions for proper installation. BSI will not be responsible to make changes to artwork in such cases.

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INSTALLATION INSTRUCTIONS



1. Disconnect battery.
2. Remove and retain splash guard and bolts.



3. From underneath the vehicle unhook hose lines connected to the fan shroud. Remove and retain lower plastic from the fan shroud so that you can see the fan.



4. Remove and retain four (4) OEM bolts. Disconnect overfill hose and set coolant reservoir aside.



5. Remove and retain air intake tube.



6. Disconnect electric fan. Remove and retain electric fan and hardware.

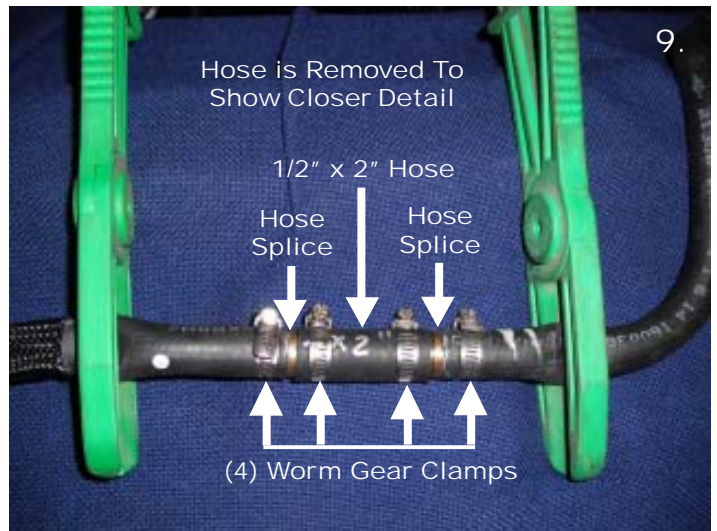




7. Remove and retain fan shroud and hardware.
8. Mark OEM tensioner. Release four (4) OEM fan nuts. Remove and discard OEM belt. Remove and retain fan and hardware.



9. Without removing water hose from vehicle, cut and modify water hose as shown in photo using two (2) 1/2" hose splice, one (1) 1/2" x 2" heater hose and four (4) #8 worm gear clamps.

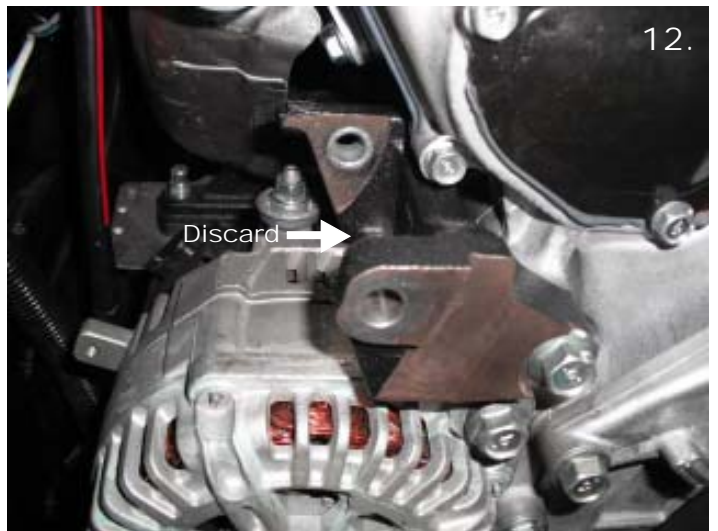


10. Disconnect power steering pump and remove. Discard pump bolts.

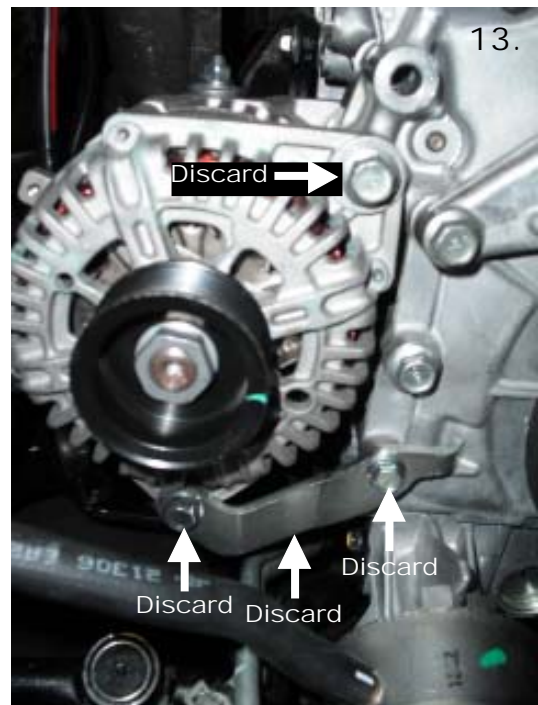
11. Remove and discard clamp bracket and bolt from the back of the power steering pump.



12. Remove and discard power steering pump bracket and bolts.



13. Disconnect alternator. Remove and discard bolts and hardware.

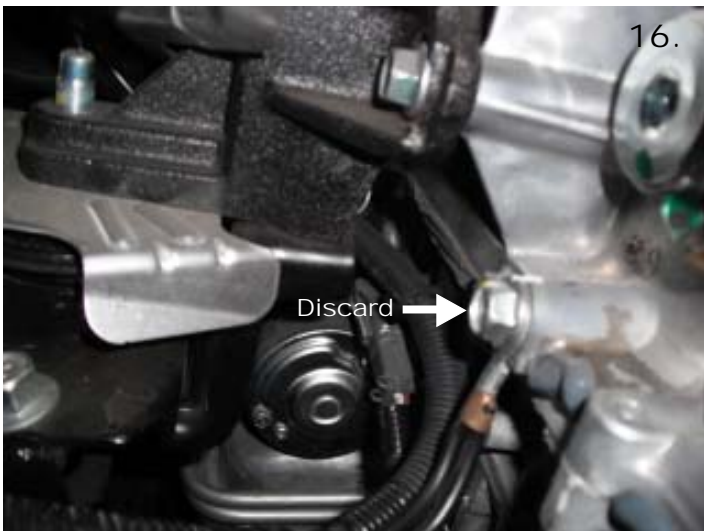




14. Remove and discard transmission line bracket and bolts.



15. Remove and discard clamp and bolt from transmission lines. Replace clamp with one (1) 6" black zip tie.

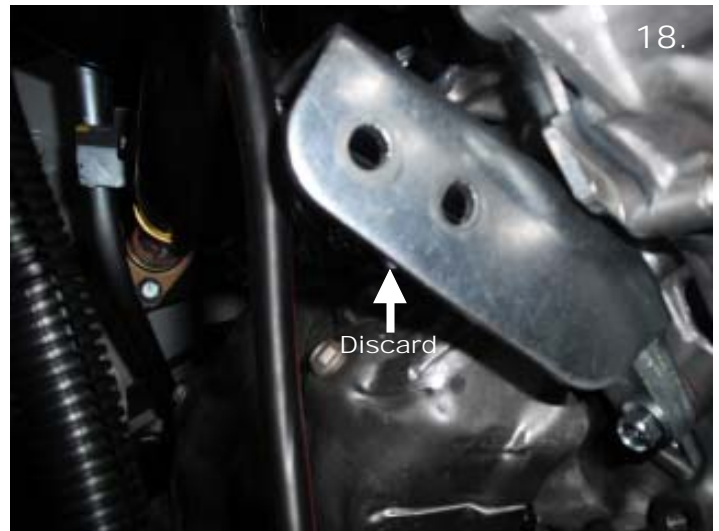


16. Remove ground wire. Discard OEM bolt.

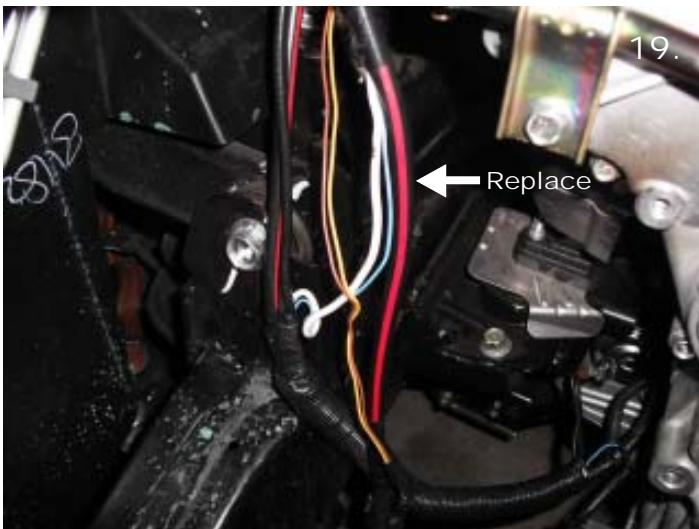
17. Remove upper ground wire. Discard OEM bolt.

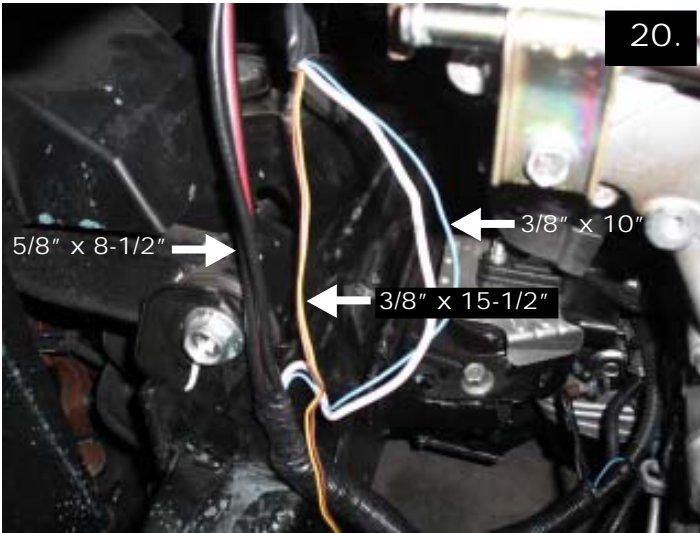


18. Remove and discard OEM bracket and bolts.

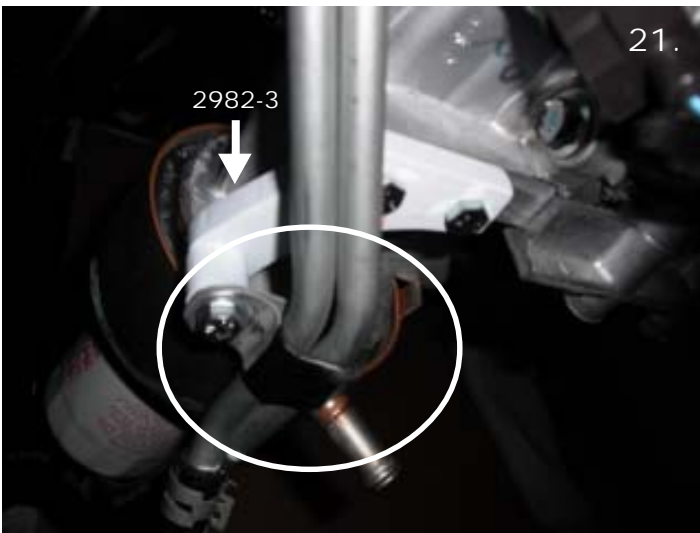


19. Remove the OEM wire loom and separate wires. Remove and discard alternator wire. Retain bolt. Replace with 32" battery cable using OEM bolt and one (1) 3/8" x 30" wire loom using two (2) 6" black zip ties at each end.





20. Using one (1) 3/8" x 10" wire loom, cover white and blue wires. Secure using two (2) 6" black zip ties. Using one (1) 3/8" x 15-1/2" wire loom, cover yellow and brown wire. Secure using two (2) 6" black zip ties. Using one (1) 5/8" x 8-1/2" wire loom, cover the three (3) remaining black wires. Secure using two (2) 6" black zip ties.



21. Install 2982-3 line brace to engine using two (2) 6m-1.0 x 25 W/LW. Connect the transmission lines to line brace using OEM clamp and one (1) 6m-1.0 x 30 W/FW-LW.



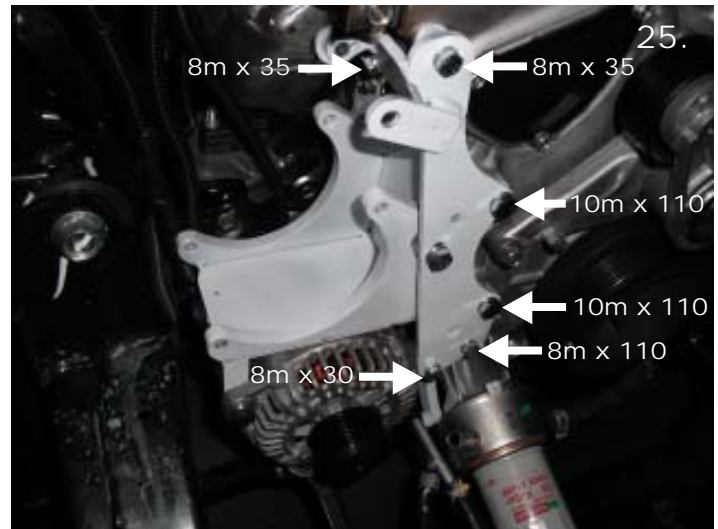
22. Install 2982-1 compressor mount using two (2) 10m-1.5 x 30 JIS W/LW at top two (2) holes of engine. Reconnect ground wire at bottom hole of mount using one (1) 10m-1.5 x 45 W/FW-LW and SW. **NOTE:** Star washer goes between compressor mount and ground wire. Tighten all bolts.

23. Loosely install OEM alternator to compressor mount using one (1) 10m-1.25 x 120 W/FW-LW and let hang.

24. Remove and discard OEM bolt.



25. Loosely install 2982-2 idler mount to engine using two (2) 10m-1.5 x 110 W/LW, one (1) 8m-1.25 x 110 W/LW, one (1) 8m-1.25 x 35 W/LW and one (1) 10m-1.5 x 35 W/LW. Rotate alternator and loosely connect to idler mount using one (1) 8m-1.25 x 30 W/LW. On the side of the engine using two (2) 8m-1.25 x 35 W/LW. Tighten all bolts.



26. On the bench: Install 2982-4 manifold to compressor using one (1) 10m-1.5 x 30 JIS W/LW.





27. Install compressor using three (3) 10m-1.5 x 35 W/FW-LW at front compressor ears. At rear compressor ears, use one (1) 10m-1.5 x 35 W/FW-LW and nut. Tighten bolts.



28. Reinstall power steering pump using one (1) 10m-1.5 x 110 W/FW-LW and nut. Use one (1) 8m-1.25 x 35 W/FW-LW and SW and one (1) 3/4" x 7/16" x 1/2" mount spacer. **NOTE:** Attach ground wire as shown in photo. Star washer goes underneath eye of ground wire. Tighten bolts. **NOTE:** Loosen power steering nut and pivot power steering hose at pump toward fan.



29. Install L-96-5 tab to upper outboard compressor ear using one (1) 10m-1.5 x 35 W/FW-LW and nut. Install one (1) C-3438 hose clamp around water line and attach to tab using one (1) 10m-1.5 x 25 W/FW-LW and nut.

30. Install one (1) 65m backside idler pulley, one (1) 30mbb406 bearing bushing and one (1) 1-1/2" x 13/32" x 3/4" pad spacer to idler mount using one (1) 10m-1.5 x 60 W/LW.

31. Install one (1) 89008 idler pulley, one (1) 10m bearing bushing and one (1) 7/8" x 15/32" x .910" idler spacer to idler mount using one (1) 10m-1.5 x 55 W/LW.



32. Install 1177K-7 belt. Belt runs in rear seven (7) grooves of compressor clutch.

33. Reconnect alternator wires. Attach all wires together using two (2) 12" black zip ties.

34. Reinstall fan.

35. Reinstall fan shroud using OEM hardware.

36. Reinstall electric fan using OEM hardware.

37. Reinstall coolant reservoir using OEM hardware.

38. Reinstall air intake using OEM hardware.

39. Reinstall splash guard using OEM hardware.

40. Check clearances at all pinch points and other areas such as belts, hoses, wire harnesses, fan and shroud, compressor clutch, etc. before starting engine.

41. Connect batteries.

32.

