CONVERSION KIT INSTRUCTION SHEET – ENGLISH ONLY

Rear Nivomat System on:

2006-2018 Dodge Charger V6
2005-2010 Chrysler 300 V6
2005-2008 Dodge Magnum V6

- Read this instruction sheet and any instructions printed on the parts package carefully prior to removing the components from the vehicle.
- Part number on shock or spring may differ from part number on carton. The contents are correct for the vehicle.
- For questions or concerns, contact the Monroe Technical Resource Center at (734) 384-7809.

W A R N I N G !

- If the shocks supplied are nitrogen gas pressurized, do not heat or open.
- Always wear safety glasses for eye protection.
- Use safety stands whenever a procedure requires you to be under a vehicle.
- Before servicing any electrical component ensure the key is out of the ignition, ignition is off and the negative lead is disconnected from the battery. Refer to the owner's manual for the correct procedure.

OVERVIEW:

This kit replaces the rear self-leveling Nivomat shocks and springs on vehicles listed above, replacing them with heavy duty coil springs and conventional shocks. The components in this kit are designed to replace the worn or non-operational original equipment components.

KIT CONTAINS:

• Two heavy duty coil springs
• Two premium shock absorbers
• Two shock absorber mounting kits
• Instruction sheet (FORM01219)

RIDE HEIGHT:

The original ride heights of these vehicles may vary with age, mileage, and options. Measure and record existing height; this is measured from center of the wheel to the bottom of the fender well opening lip. The ride height could be considerably higher or lower if the Nivomat shocks are not functioning properly. After kit installation, the ride height may be equal to or exceed factory measurements, but will settle to factory specification after several days. Keep in mind a new coil spring may sit higher than the OE spring.

	Before	After
LEFT REAR	_____	_____
RIGHT REAR	_____	_____

REMOVAL PROCEDURE FOR COIL SPRINGS AND SHOCK ABSORBERS:

1. Raise vehicle by frame at proper lift points. Consult Chrysler Owner Manual if necessary and make sure the vehicle is properly supported.

2. Remove the wheel lug nuts and wheels on both sides of the vehicle.

3. Support the rear axle with floor jack or adjustable stands.

4. Position jack stand or adjustable stands several inches below exhaust at each muffler.

5. Disconnect exhaust isolators at muffler and resonator hangers (qty. 6).

6. With isolators disconnected carefully lower exhaust to rest on jack stand that was previously placed below the muffler (see photo below)/

7. Remove the shock absorber upper mounting bolts. Save hardware for reuse.

8. Remove the lower shock absorber mounting hardware. Save hardware for reuse.

9. Disconnect brake hose bracket on the body (see photo below). This will prevent damage to the hose during the following steps.

Caution: *If equipped with AWD, be sure not to misplace the spacers between the crossmember mounts and the body when removing crossmember mounting bolts in the following step.*

Caution: *When removing crossmember mounting bolts, do not remove or loosen crossmember mounting bolts on the opposite side of the vehicle. Removing or loosening crossmember mounting bolts on both sides of the vehicle will require a rear wheel alignment following reinstallation.*

10. Support crossmember on repair side with floor jack or adjustable stand.

11. Remove both front and rear crossmember mounting bolts on repair side of vehicle only (see photos below). Save hardware for reuse.

© 2019

12. Using the floor jack or adjustable stands, **slowly** lower the axle and crossmember on repair side down to remove the shock and coil spring. You will have to lower the axle further to install the new coil springs.

13. Remove shock absorber and coil spring.

INSTALLATION OF COIL SPRINGS AND SHOCK ABSORBERS:

14. Orient the spring with the tighter coil spacing is at the top (See photos below). Due to the length difference of the new spring the upper spring isolator needs to be rotated so the pigtail will seat properly. Install new coil spring, reusing the OE upper and lower spring isolators (replace if necessary).

15. Carefully raise the rear axle and crossmember while ensuring the spring remains properly seated in the upper and lower spring seats/isolator.

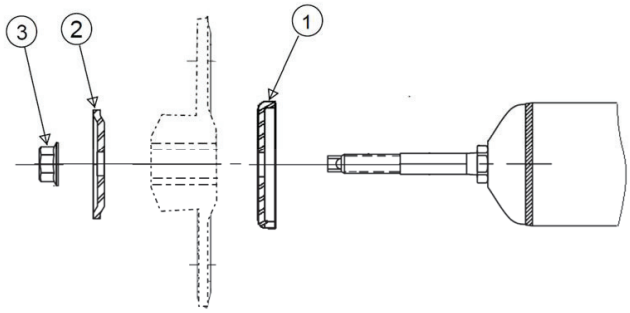
Caution: *Take care that vehicle weight does not shift off frame supporting points when lifting the axle.*

Caution: *If vehicle is equipped with AWD, ensure spacers on top of crossmember mount bushings are in position.*

Caution: *Rear crossmember bolts are longer than front crossmember mount bolts. Do not interchange bolts.*

16. Reinstall crossmember mounting bolts and torque to 133 lb.-ft. (180 N·m) (Inspect and replace if necessary).

17. Assemble shock mounting kit 905969 onto new shock following the diagram below. Tighten nut (3) to 20 lb.-ft. (27 N·m). Discard extra retainers.



18. Install new shocks into the upper mounting holes reusing the original mounting hardware (inspect and replace if necessary). Torque upper mounting bolts to 38 lb.-ft. (52 N·m).

19. Reinstall lower shock mounting hardware (inspect and replace if necessary). Hand tighten only. If necessary, raise the lower control arm with an adjustable stand or jack to align the lower mounting holes.

20. Reconnect the brake line bracket to the body and tighten securely.

Note: *Repeat steps 1-20 for opposite side of vehicle. Then proceed to step 21.*

21. Carefully remove the jacks from under the rear axle and crossmember.

22. Raise the exhaust back to mounted position and connect exhaust isolators at muffler and resonator hangers. Remove jacks or stands below exhaust mufflers.

23. Reinstall the rear wheels and hand tighten the lug nuts. Safely lower the vehicle and torque the wheel to 110 lb-ft (150 N·m).

24. Position vehicle on alignment rack or drive-on lift. Raise lift to access lower mounting bolt. Tighten shock absorber lower mounting bolt nut to 53 ft. lbs. (72 N·m).

© 2019