CONVERSION KIT INSTRUCTION SHEET – ENGLISH ONLY

Rear Nivomat (ZW7 Premium Smooth Ride) System on:
2002-2006 Cadillac Escalade
2002-2006 Cadillac Escalade ESV
2002-2006 Cadillac Escalade EXT
2002-2006 Chevrolet Avalanche 1500
2000-2006 Chevrolet Tahoe
2000-2006 Chevrolet Suburban 1500
2000-2006 GMC Yukon
2000-2006 GMC Yukon XL 1500

- 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.

WARNING!

- 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
• Instruction sheet (FORM01213)

RIDE HEIGHT:

The original ride heights of these vehicles may vary with age, mileage, and torsion bar settings. It may be beneficial to ensure the front torsion bars are adjusted to factory specifications. 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 GM Owner Manual if necessary and make sure the vehicle is properly supported.

2. Support the axle with floor jack or adjustable stands. Remove the lower shock absorber mounting hardware. Save hardware for reuse.

3. Disconnect the rear anti-sway bar end link upper mounting hardware. Save hardware for reuse.

4. Disconnect rear wheel speed sensor wire from the clips on the frame. Allowing wires to hang freely.

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5. Remove the bolt that holds the brake line bracket to the rear differential.

6. Disconnect the vent hose at the top of the differential.

7. Using the floor jack or adjustable stands, slowly lower the axle down to remove the coil springs. You will have to lower the axle further to install the new coil springs. **Caution:** Do not strain the brake hoses by overextending the axle.

ASSEMBLY AND INSTALLATION OF COIL SPRINGS AND SHOCK ABSORBERS:

8. Install new coil springs, reusing the OE upper and lower spring isolators (replace if necessary). Orient the springs so the label is closer to the TOP making sure both pigtails are secure within the spring seats. Rotate the spring so the lower pigtail is parallel with the axle.

9. Carefully raise the rear axle while ensuring the upper coils remain properly seated in the upper spring seats. **Caution:** Take care that vehicle weight does not shift off frame supporting points when lifting the axle.

10. Install new shocks into the upper mount brackets using the original mounting hardware (inspect and replace if necessary). Hand tighten only.

11. Continue to raise the axle until the lower shock mounts align with the lower mounting brackets. Reinstall original mounting hardware (inspect and replace if necessary). Hand tighten only.

12. Reconnect the vent hose and brake line bracket to the differential and tighten securely.

13. Reconnect the rear anti-sway bar end link to the upper mounting bracket reusing the original mounting hardware and torque to 48 lb-ft (65N·m) (inspect and replace if necessary).

14. Reattach and secure wheel speed sensor wires into the clips on the frame.

15. Lower the vehicle so the full weight is resting on the tires and jounce the suspension. Then torque the upper and lower shock mounting hardware to 70 lb-ft (95N·m).