

Rear Leaf Spring Package Installation (ZR2 Instruction ID: 84419844)

Installation Instructions Part Number

84419844

Parts Included with Accessory Kit

Description	Quantity
Long Travel Leaf Spring Pack	2
Off Road Shackle	2
Front Leaf to Frame Bolt - M10 x 117.35	2
Front Leaf to Frame Nut - M10	2
Rear Leaf to Shackle; Shackle to Frame Bolt - M14 x 121.68	4
Rear Leaf to Shackle; Shackle to Frame; U-Bolt Nut - M14	12
U-Bolt - M14	4
U-Bolt Washer - M14	8
Performance Emblem	1
Instruction sheet	1

The parts listed in this catalog are intended for installation in competition vehicles for operation in Off Road racing applications only. By "competition vehicles," GM means vehicles (i) used exclusively for competitions organized and sanctioned by a local or private body and (ii) not designed for use on public streets or highways. Consumers are strongly advised not to install parts accompanied by this warning on vehicles that will be driven on public roads. They have not been designed or tested for crashworthiness or to meet the safety needs of the motoring public, and they may not meet the full durability requirements that Chevrolet validates for its street legal, production vehicle components.

US. federal and state, and Canadian law prohibit an automobile manufacturer or dealer from removing, modifying or rendering inoperative any part installed on a motor vehicle in compliance with an applicable Federal Motor Vehicle Safety Standard. Further, US. federal and state, and Canadian law prohibit any person from knowingly removing, modifying, or making inoperative, or causing someone to remove or render inoperative, or otherwise tampering with, any part or element of design installed in compliance with motor vehicle emission standards on a motor vehicle or non-road vehicle, or otherwise modifying any required emission and noise control system.

Unless specifically noted to the contrary herein, vehicles equipped with Chevrolet Off Road Racing Parts may not meet Federal Motor Vehicle Safety Standards and should not be operated on public roads.

Installation or use of these parts on a vehicle operated on public streets or highways is also likely to violate U.S., Canadian, and state and provincial laws and regulations relating to motor vehicle emissions. US. federal and state, and Canadian provincial agencies have the authority to administer substantial monetary penalties against individuals and companies who do not comply with these laws. Chevrolet Performance customers are responsible for ensuring their use of Chevrolet Off Road Racing Parts complies with applicable federal, state/provincial and local laws, regulations and ordinances, and for ensuring that modified vehicles are operated in a manner that complies with applicable laws.

The use of these components in a GM vehicle may adversely affect the original intended performance or handling characteristics of the vehicle. These parts are designed and intended to be used with experts supervising their installation and use, to help assure the proper and safe operation of the vehicle. Use of certain Chevrolet Off Road Racing Parts may result in the failure of other components or systems, which would not be covered under the New Vehicle Limited Warranty. For Off Road Racing Parts in this catalogue designated with an asterisk (*), installation of such parts may void part or all of the New Vehicle Limited Warranty; these components are warranted against defects in workmanship or materials for 12 months / unlimited miles for parts only. Otherwise, vehicles do retain their New Vehicle Limited Warranty coverage with Chevrolet Performance components installed by an authorized GM Dealer or qualified Independent Service Center.

Tools Required

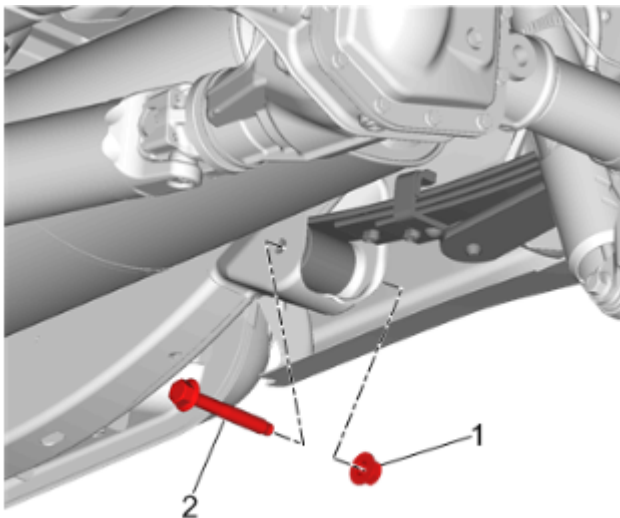
EN-45059 Torque Angle Meter

For equivalent regional tools, refer to [Special Tools](#) in Vehicle Service Manual.

Preliminary Procedure

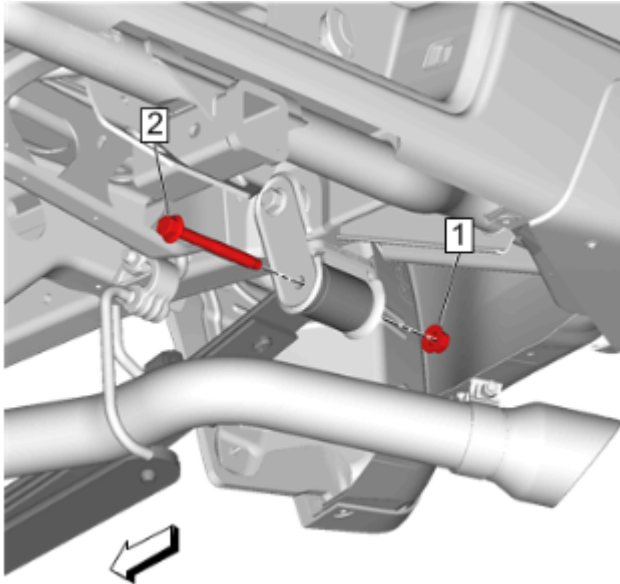
1. Raise and support the vehicle. [Lifting and Jacking the Vehicle](#) in Vehicle Service Manual.
2. Remove the rear wheel and tire assembly. Refer to [Tire and Wheel Removal and Installation](#) in Vehicle Service Manual.
3. Using proper jack stands, support the rear axle assembly.
4. Using an appropriate jack, raise the exhaust system just enough to allow clearance to remove the leaf spring front bolt.

Procedure



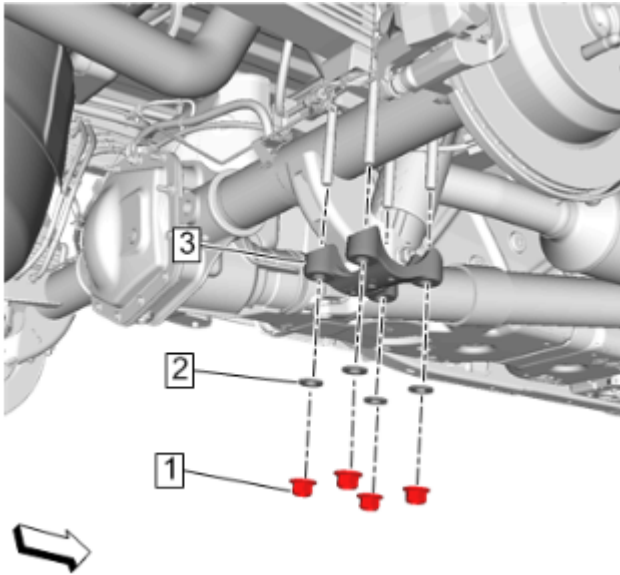
1. Remove and discard the leaf spring nut (1) and bolt (2).

Note: In order to remove the driver side leaf spring it will be necessary to drop the gas tank to remove the front bolt.



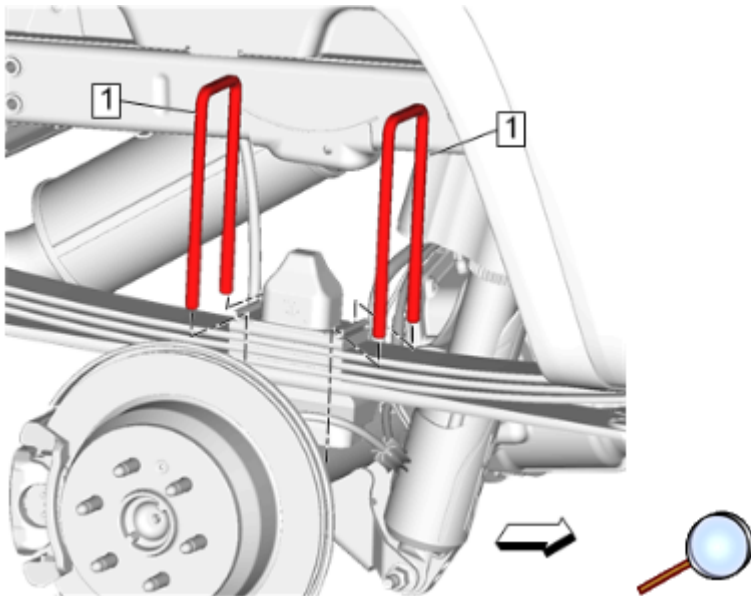
2. Remove and discard the rear spring shackle nut (1) and bolt (2).

Note: Care must be taken to not over extend the brake lines and ABS harness.

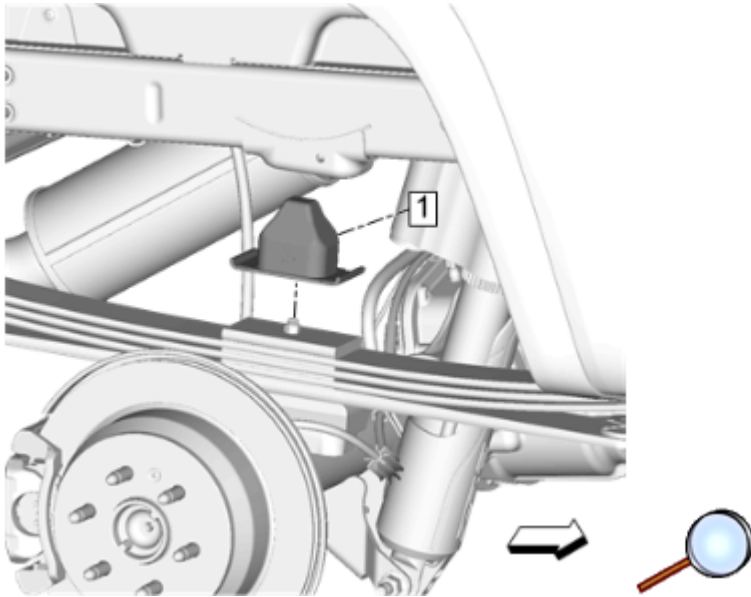


3. Remove and discard the rear spring U-bolts nuts (1) and washers (2).

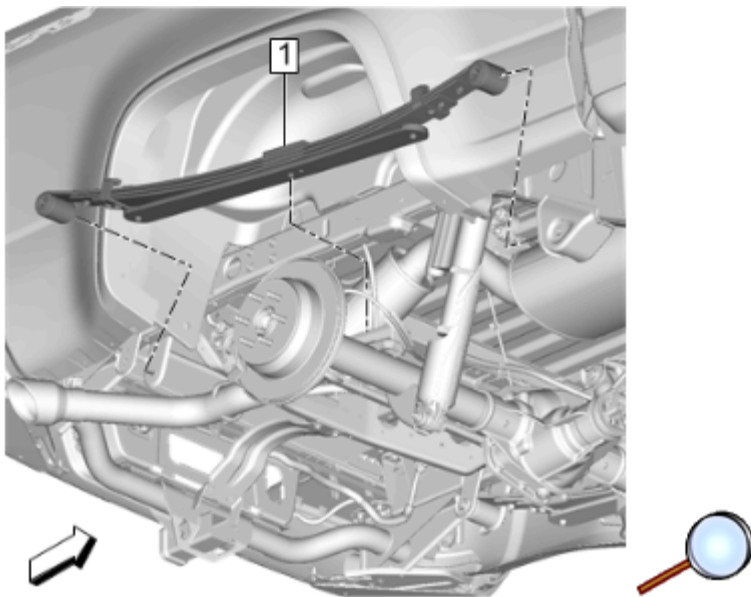
4. Remove the rear spring anchor plate (3).



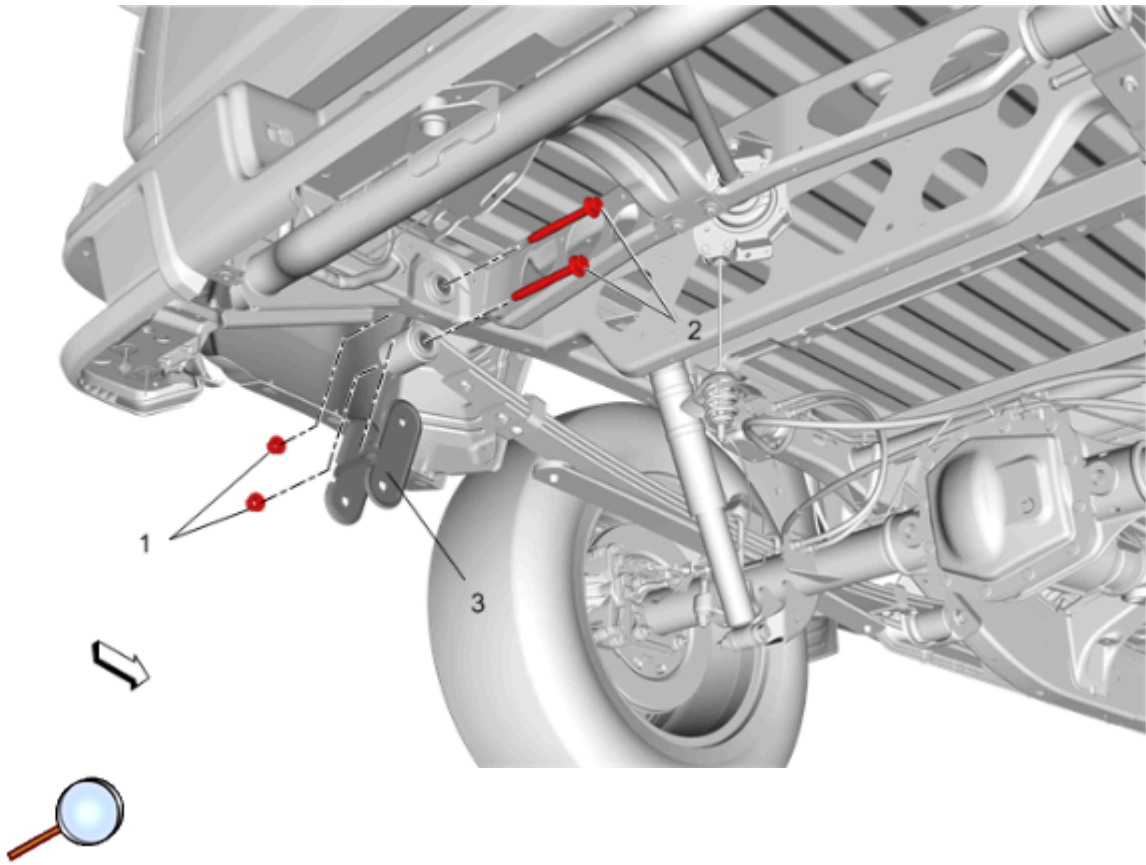
5. Remove and discard the rear spring U-bolts (1).



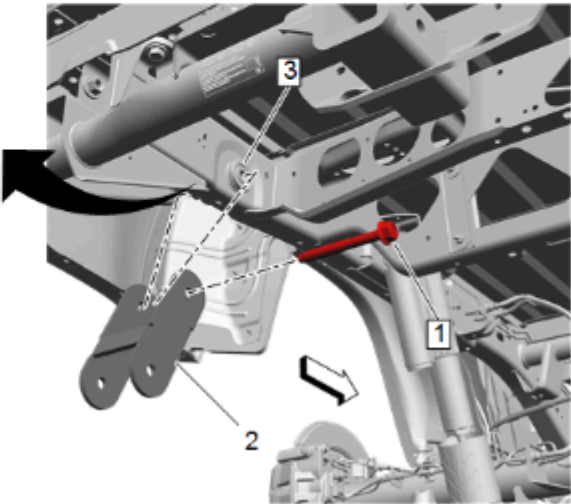
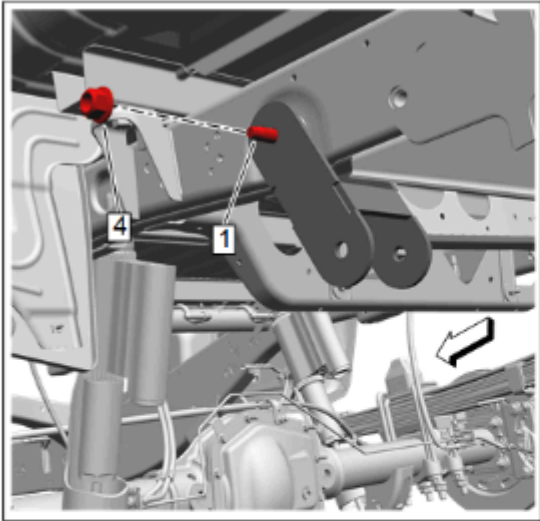
6. Remove the rear axle bumper (1).



7. Remove the rear spring (1).



8. Remove rear shackle (3) and discard the frame attachment nuts (1) and bolts (2).



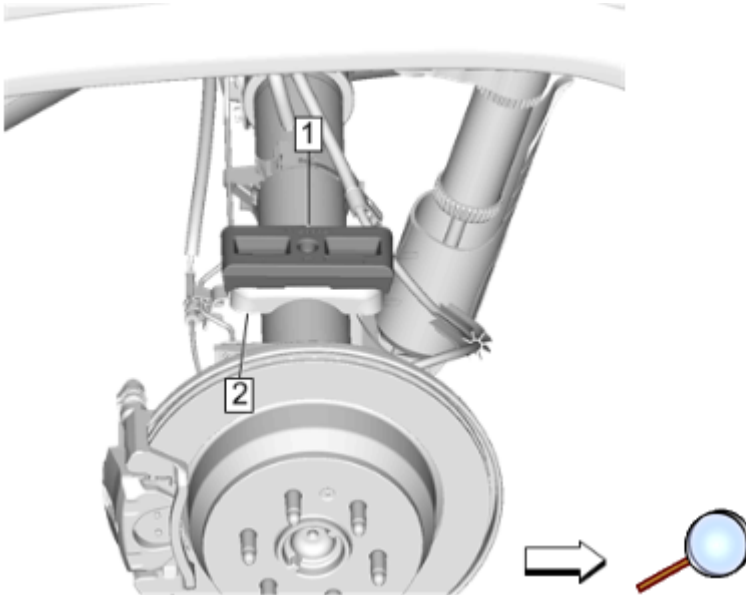
Caution: Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on

fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

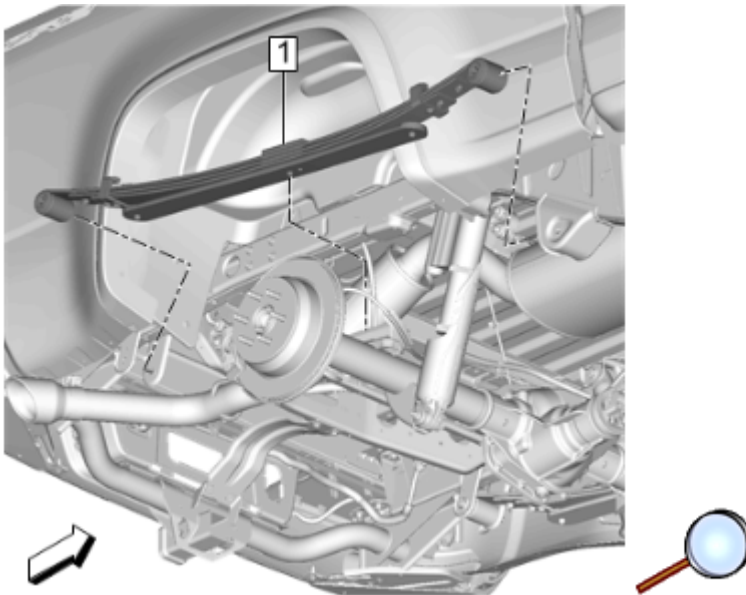
9. Install the new shackle (2) to frame (3) with new spring shackle bolt (1) and nut (4).

Tighten

Nut to 160 N.m (118 lb ft).



10. Verify that the rear spring spacer (1) is in place and properly seated onto the Rear Axle Housing (2).

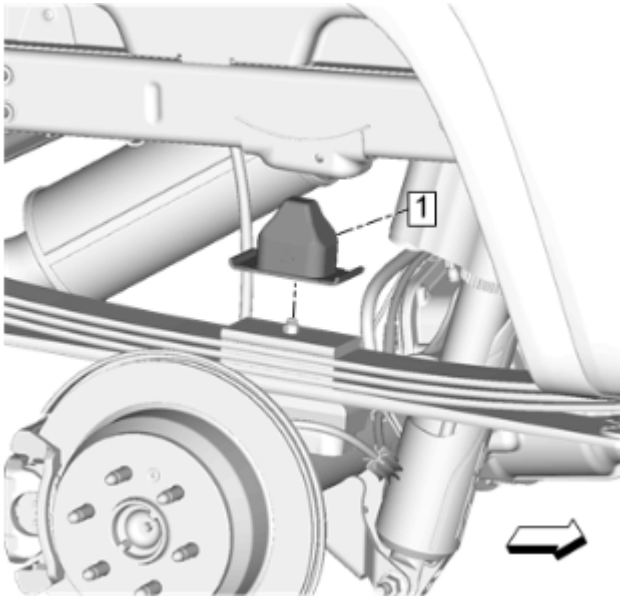


Note: It may be necessary to remove the rear shock from the axle in order to install new leaf spring.

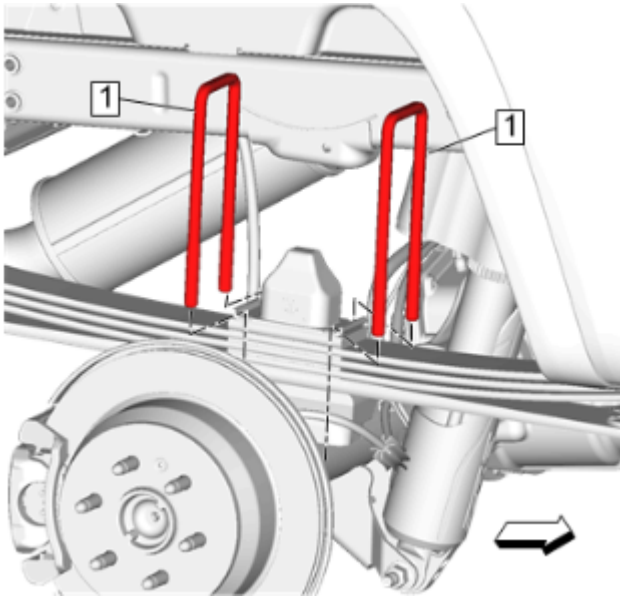
11. Install rear spring (1).

Note: Make sure that the thicker portion of the main leaf is towards the front of the truck during install.

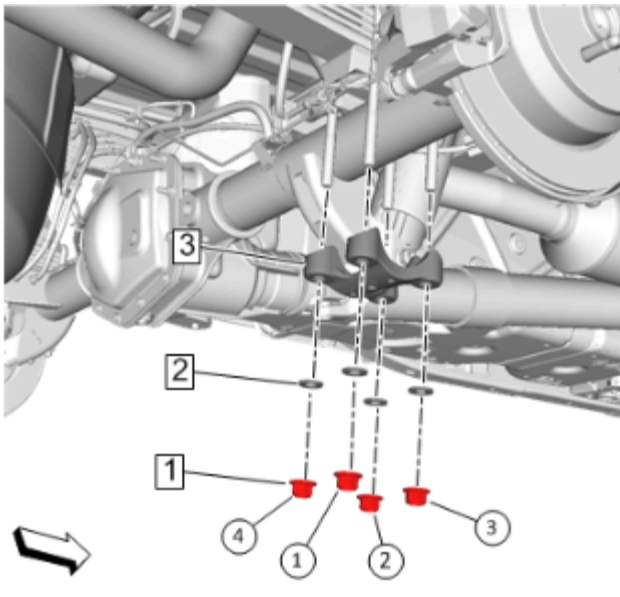
Note: If you have the Leaf Spring Mounting Jounce Striker Kit, follow those instructions for the install of the leaf spring mount/jounce striker.



12. Install rear axle bumper (1).



13. Install NEW rear spring U-bolts (1).



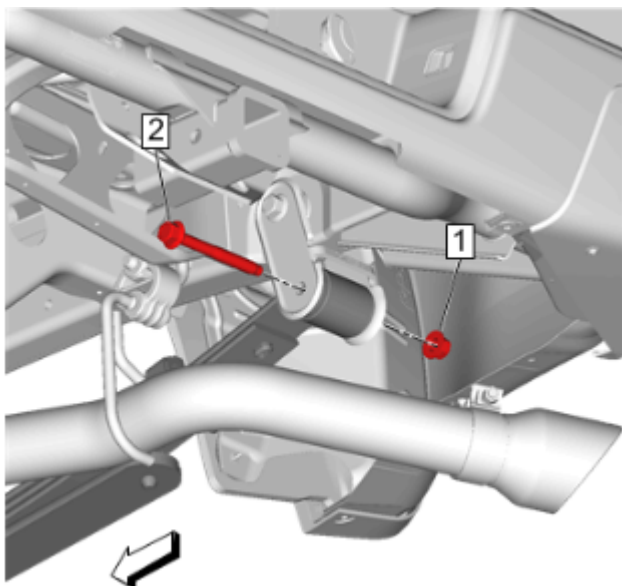
14. Install rear spring anchor plate (3) using the NEW U-bolt washers (2) and NEW nuts (1) . Use the *EN-45059* meter to tighten the nuts (1).

Tighten

Tighten nuts in sequence 1,2,3,4.

First Pass: **80 Y (59 lb ft)**

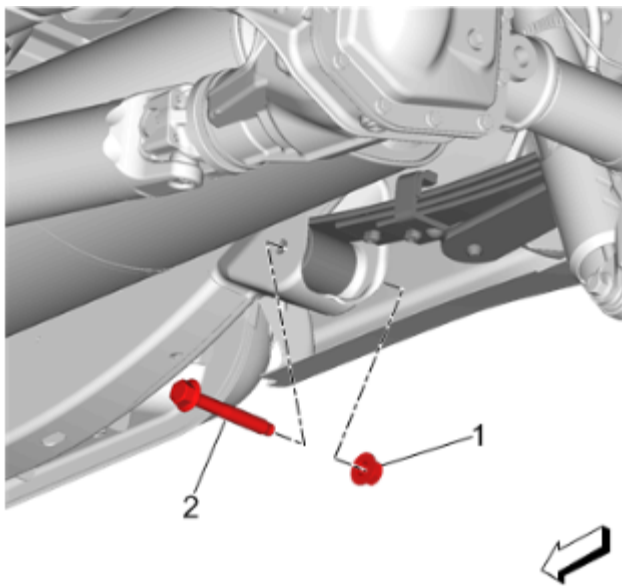
Final Pass: **125 – 135 Degrees**



15. Install the rear spring shackle NEW bolt (2) and NEW nut (1).

Tighten

Nut to 160 N.m (118 lb ft).



16. Install the rear spring NEW bolt (2) and NEW nut (1).

Tighten

Nut to 204 N.m (177 lb ft).

17. Repeat steps above for other leaf spring assembly.

18. Install the rear tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) in Vehicle Service Manual.

19. Remove the jack stands.

20. Lower the vehicle.