

2022 CHEVROLET CORVETTE SERVICE MANUAL

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1. [Suspension](#)
2. [Rear Suspension](#)
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- 4.

Shock Absorber, Shock Absorber Component, or Spring Replacement (FE1, FE3)

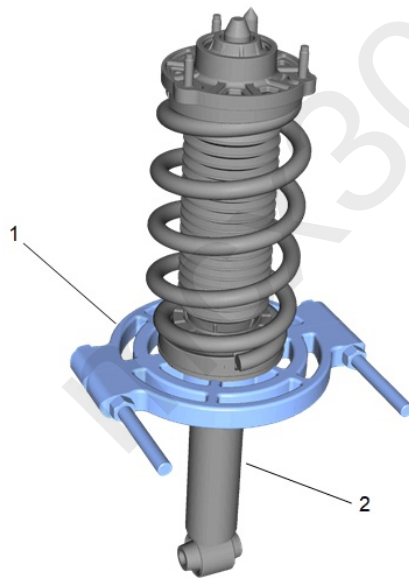
Special Tools

- CH-45400-B, Strut Spring Compressor
- CH-45400-100, Strut Compressor Adapter
- CH-52936, Strut Removal Tool

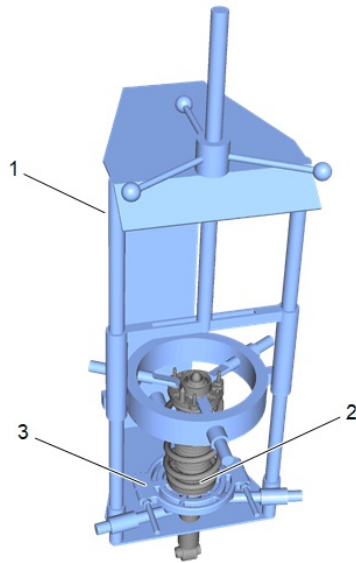
Equivalent regional tools: Special Tools

Disassembly Procedure

1. Remove the rear shock absorber assembly. Rear Shock Absorber and Spring Removal and Installation



2.
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3. Install the CH-45400-100, Strut Compressor Adapter (1) to the rear shock absorber assembly (2).



4. [Click here for full size](#)

5. Warning:

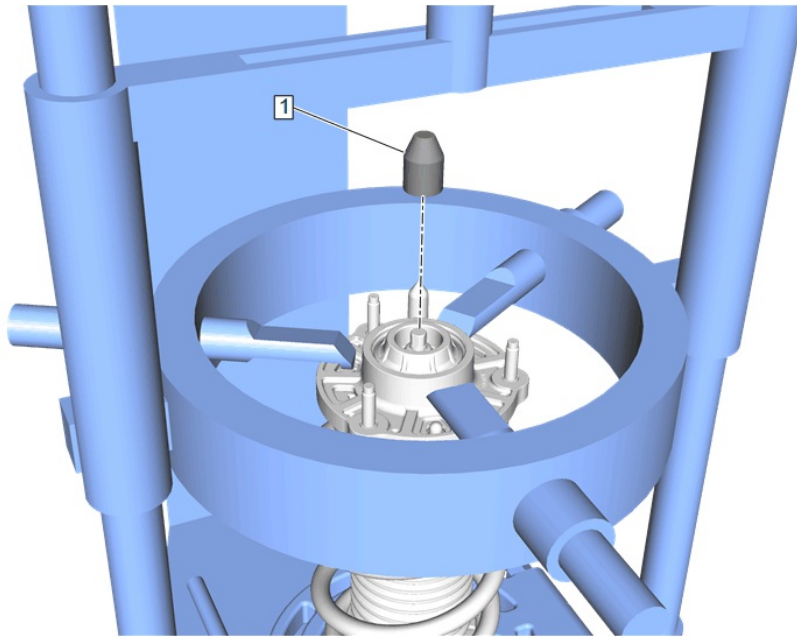
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before all of the tension is relieved.

6. Place and center the rear shock absorber assembly (2) into the *CH-45400-BÃ*,Â Strut Spring Compressor (1).

7.

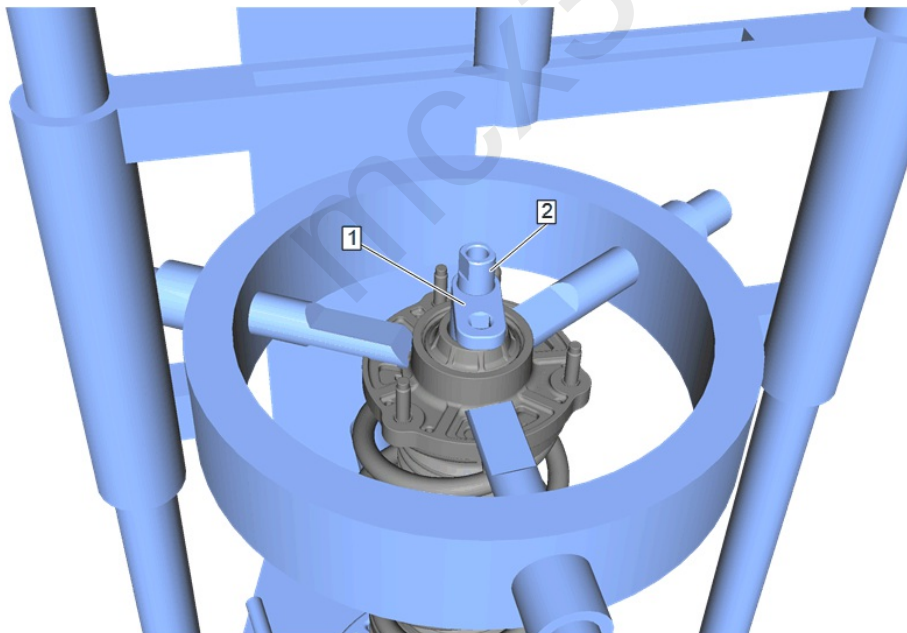
1. Position the rear shock absorber assembly (2) so the *CH-45400-100Ã*,Â Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
2. Position the upper arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1) evenly onto the top of the rear shock absorber mount.

8. Using the *CH-45400-BÃ*,Â Strut Spring Compressor (1), carefully compress the rear coil spring enough to remove tension from the rear shock absorber mount.



9.
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10. Rear Shock Absorber Upper Cover (1) >> Remove



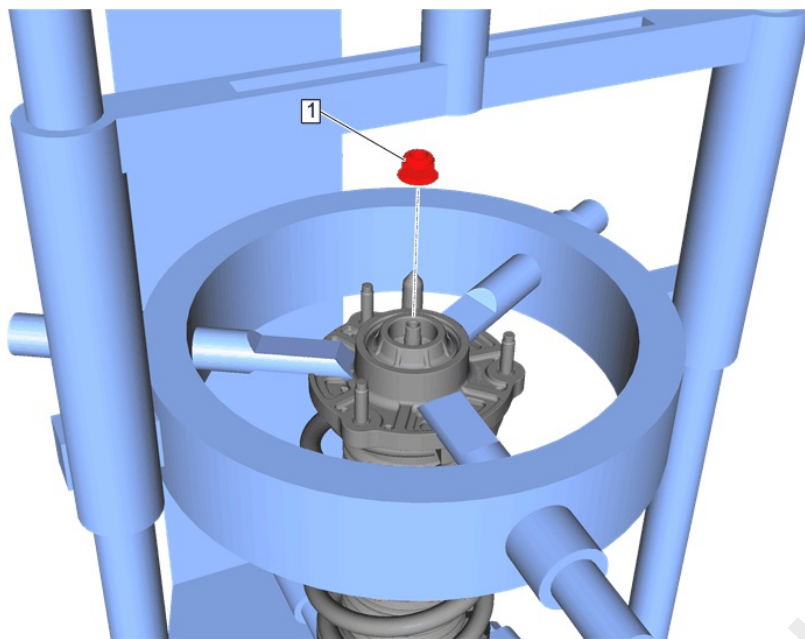
11.
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12. Install the *CH-52936-1* Strut Removal Tool (1) to the rear shock absorber shock rod mount nut.

13. Install the *CH-52936-2* Strut Removal Tool (2) to the rear shock absorber shock rod.

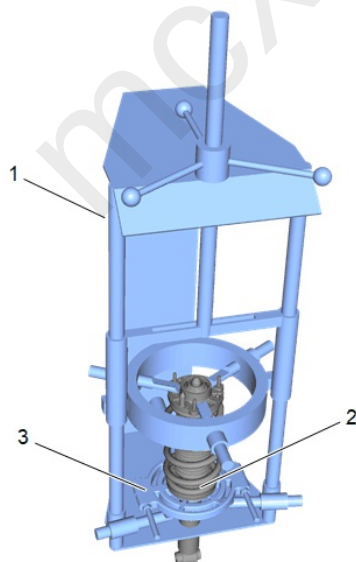
14. While holding the rear shock absorber shock rod with the *CH-52936-2* Strut Removal Tool (2), loosen the rear shock absorber shock

rod mount nut with the *CH-52936-1* Strut Removal Tool (1).



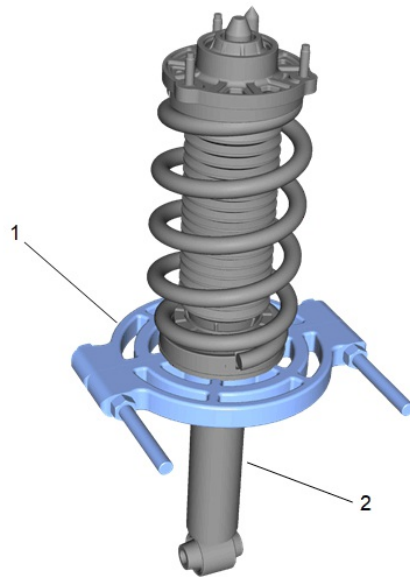
15.
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16. Rear Shock Absorber Shock Rod Mount Nut (1) >> Remove



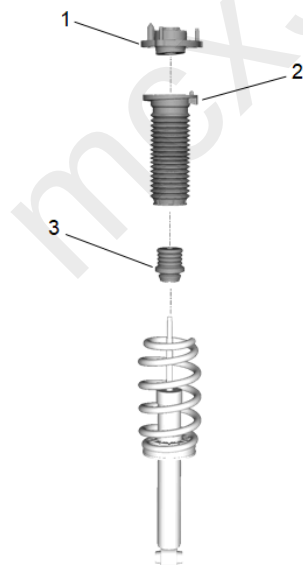
17.
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18. Carefully release the tension on the rear shock absorber assembly (2) and remove all the components from the *CH-45400-B* Strut Spring Compressor (1).



19.
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20. Remove the *CH-45400-100* Strut Compressor Adapter (1) from the rear shock absorber assembly (2).

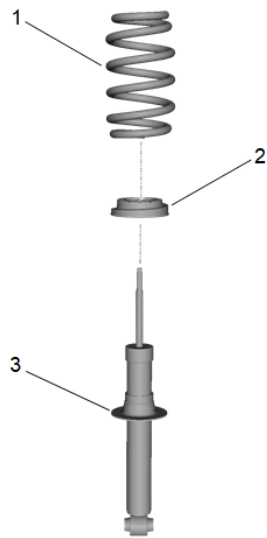


21.
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22. Rear Shock Absorber Mount (1) >> Remove

23. Rear Coil Spring Insulator (2) >> Remove

24. Rear Shock Absorber Bumper (3) >> Remove



25.

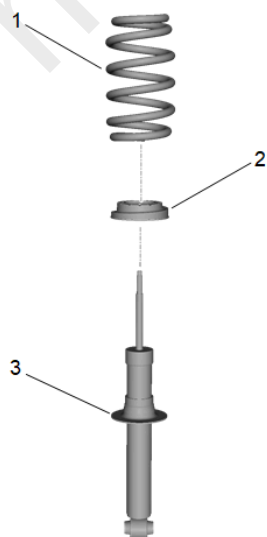
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26. Rear Coil Spring (1) >> Remove

27. Rear Coil Spring Lower Insulator (2) @ Rear Shock Absorber (3) >> Remove

28. Inspect the components and replace as necessary.

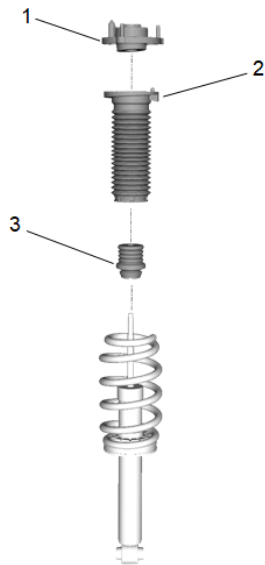
Assembly Procedure



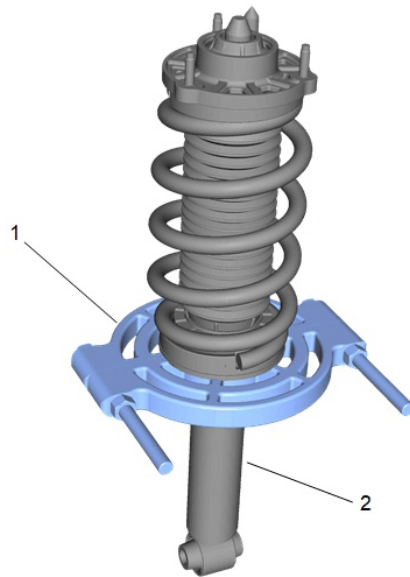
1.

[Click here for full size](#)

2. Rear Coil Spring Lower Insulator (2) @ Rear Shock Absorber (3) >> Install
3. Rear Coil Spring (1) >> Install

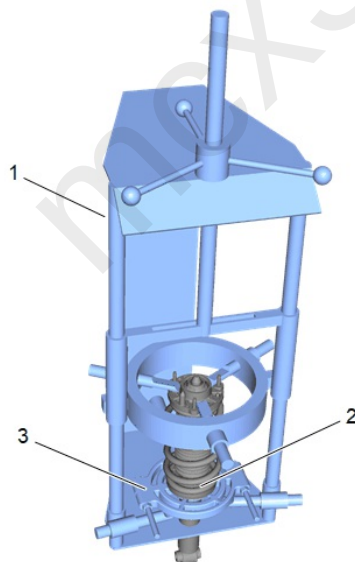


4. [Click here for full size](#)
5. Rear Shock Absorber Bumper (3) >> Install
6. Rear Coil Spring Insulator (2) >> Install
7. Rear Shock Absorber Mount (1) >> Install



8.
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9. Install the CH-45400-100,Â Strut Compressor Adapter (1) to the rear shock absorber assembly (2).

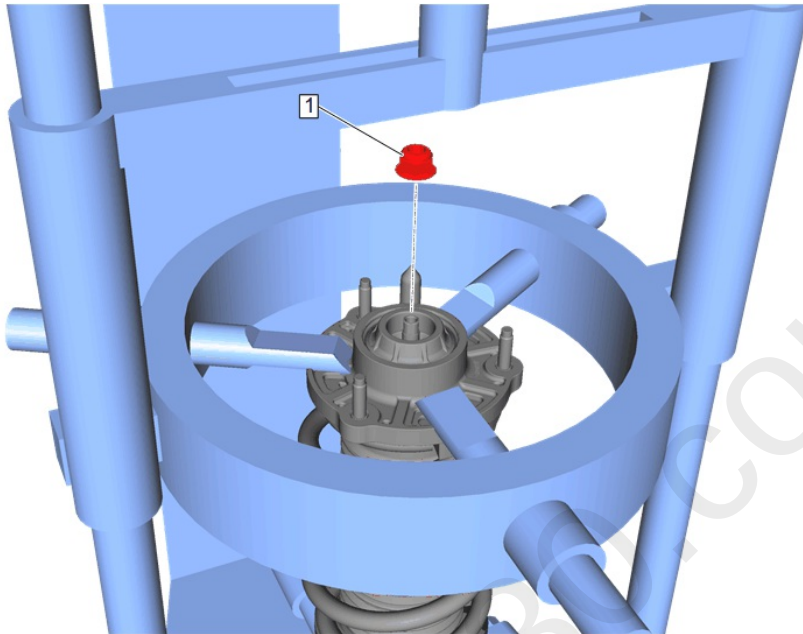


10.
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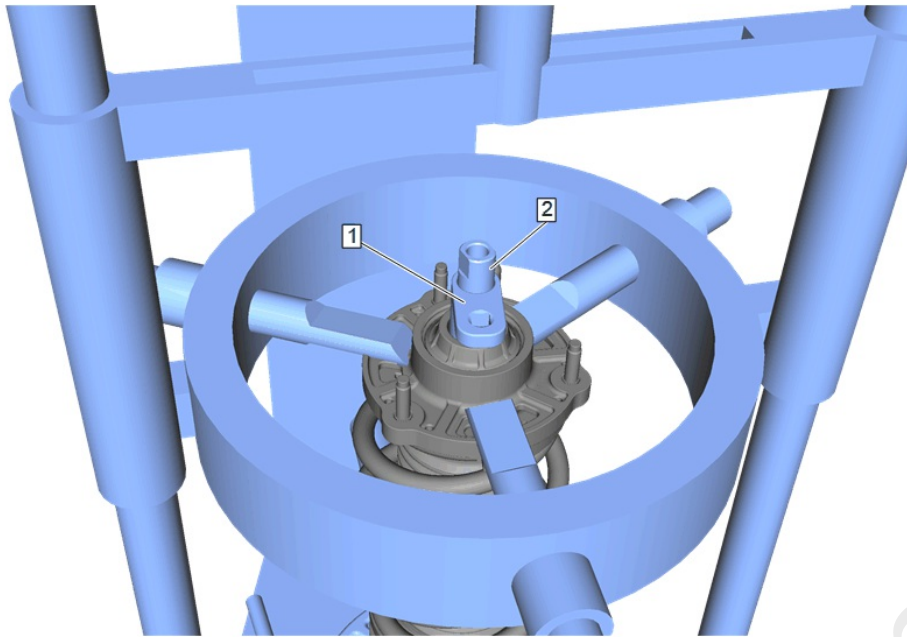
11. **Warning:**

To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before all of the tension is relieved.

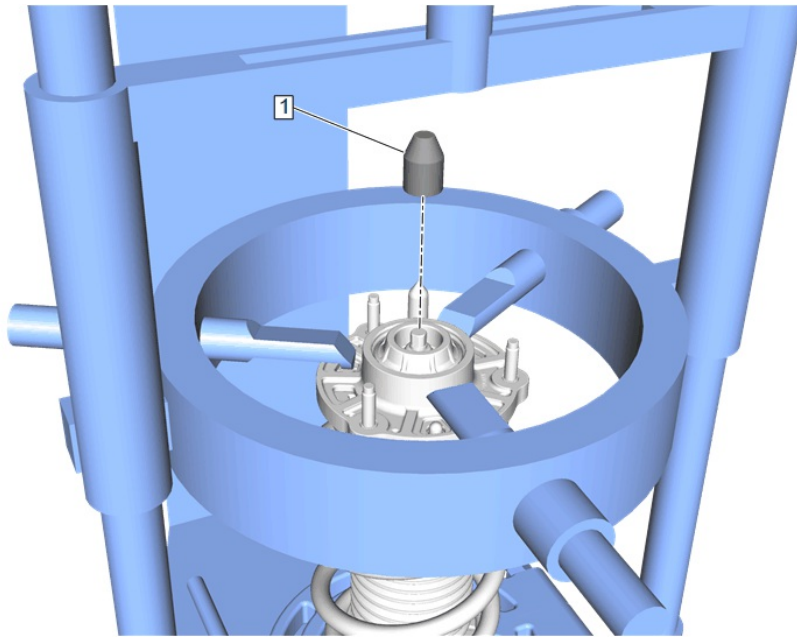
12. Place and center the rear shock absorber assembly (2) into the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
13.
 1. Position the rear shock absorber assembly (2) so the *CH-45400-100Ã*,Â Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
 2. Position the upper arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1) evenly onto the top of the rear shock absorber mount.
14. Using the *CH-45400-BÃ*,Â Strut Spring Compressor (1), carefully compress the rear coil spring enough to allow the threaded portion of the rear shock absorber rod to pass through the rear shock absorber mount.



15.
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16. Rear Shock Absorber Shock Rod Mount Nut (1) >> Loosely install

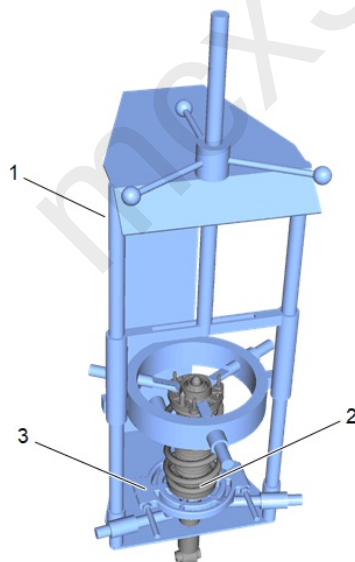


17. [Click here for full size](#)
18. Install the *CH-52936-1* Strut Removal Tool (1) to the rear shock absorber shock rod mount nut.
19. Install the *CH-52936-2* Strut Removal Tool (2) to the rear shock absorber shock rod.
20. **Caution:**
Refer to Fastener Caution.
21. While holding the rear shock absorber shock rod with the *CH-52936-2* Strut Removal Tool (2), tighten the rear shock absorber shock rod mount nut with the *CH-52936-1* Strut Removal Tool (1) to 33 N-m (24 lb ft).



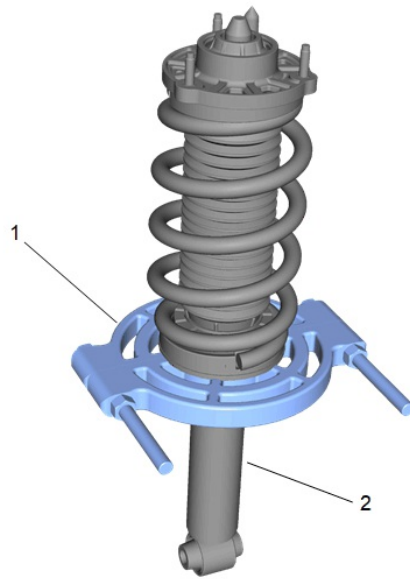
22.
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23. Rear Shock Absorber Upper Cover (1) >> Install



24.
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25. Carefully release the tension on the rear shock absorber assembly (2) and remove from the *CH-45400-BÃ,Â* Strut Spring Compressor (1).



26.

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27. Remove the *CH-45400-100* Strut Compressor Adapter (1) from the rear shock absorber assembly (2).

28. Install the rear shock absorber assembly. Rear Shock Absorber and Spring Removal and Installation