

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Suspension**
2. **Rear Suspension**
3. **Repair Instructions**
- 4.

Shock Absorber, Shock Absorber Component, or Spring Replacement (FE4)

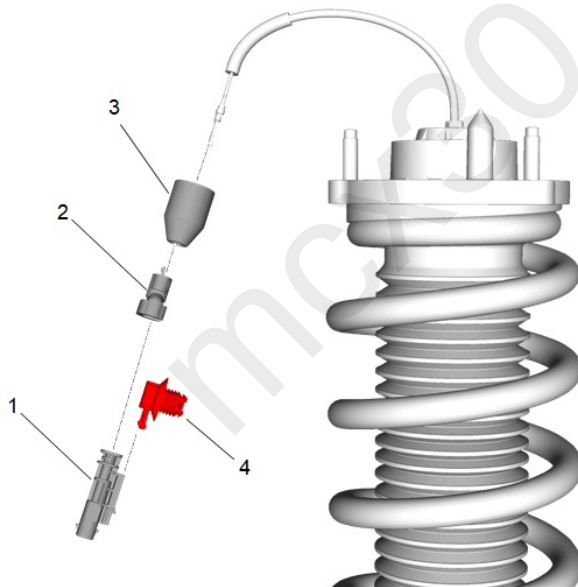
Special Tools

- CH-45400-BÃ,Â Strut Spring Compressor
- CH-45400-100Ã,Â Strut Compressor Adapter
- CH-52936Ã,Â Strut Removal Tool

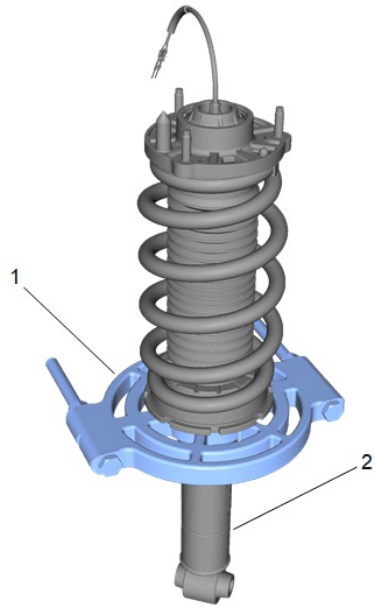
Equivalent regional tools: Special Tools

Disassembly Procedure

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

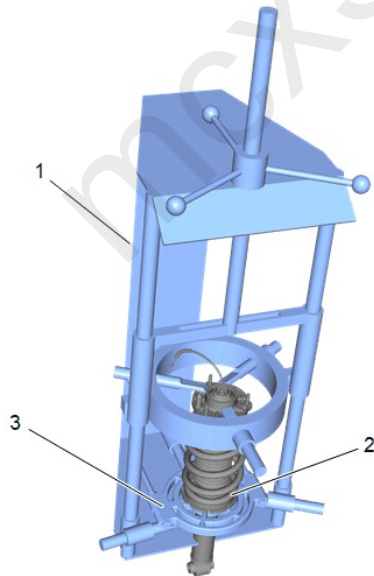


2.
Click here for full size
3. Chassis Rear Wiring Harness Clip (4) >> Remove and DISCARD
4. Note:
Note the wire color and inline male connector (1) cavity matching prior to removing the wires.
5. Inline Male Connector (1) >> Remove and DISCARD - Terminal Removal
6. Wiring Harness Clip (2) >> Remove and DISCARD
7. Rear Shock Absorber Upper Cover (3) >> Remove



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

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

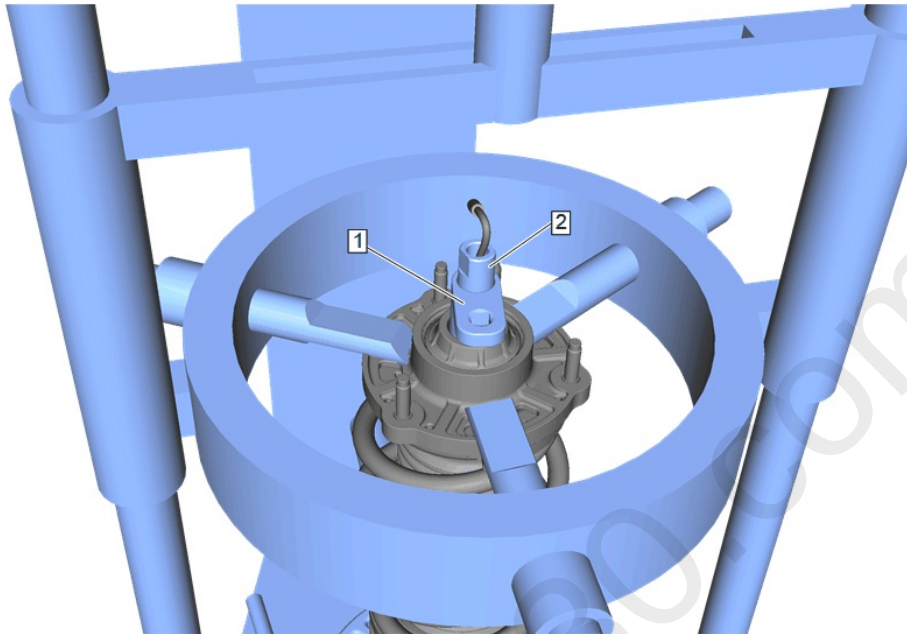


10. [Click here for full size](#)

11. **Warning:**

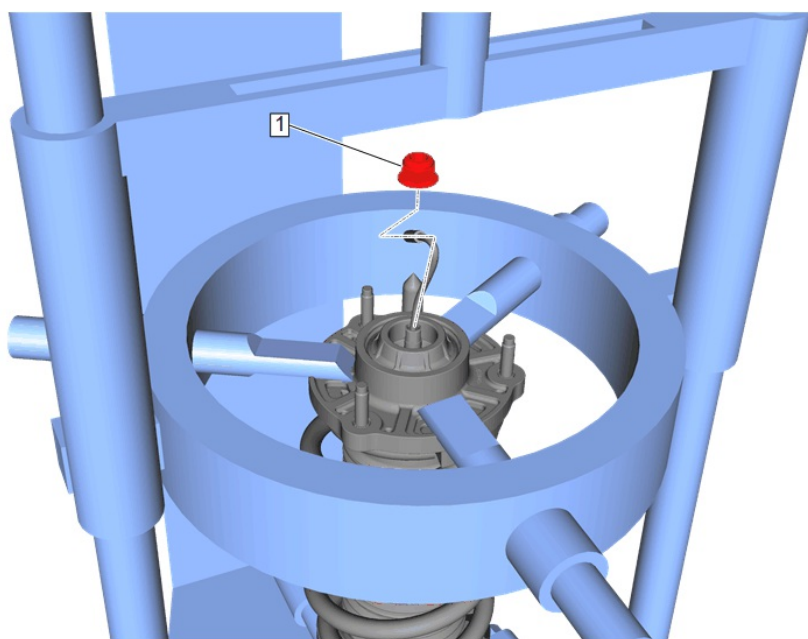
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before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

12. Place and center the rear shock absorber assembly (2) into the *CH-45400-B* Strut Spring Compressor (1).
13.
 1. Position the rear shock absorber assembly (2) so the *CH-45400-100* Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-B* Strut Spring Compressor (1).
 2. Position the upper arms of the *CH-45400-B* Strut Spring Compressor (1) evenly onto the top of the rear shock absorber mount.
14. Using the *CH-45400-B* Strut Spring Compressor (1), carefully compress the rear coil spring enough to remove tension from the rear shock absorber mount.



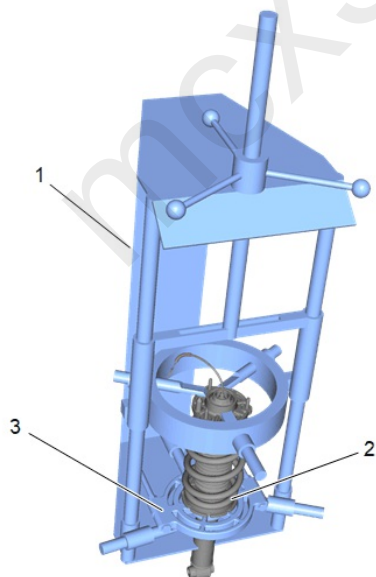
15.

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16. Install the *CH-52936-1* Strut Removal Tool (1) to the rear shock absorber shock rod mount nut.
17. Install the *CH-52936-2* Strut Removal Tool (2) to the rear shock absorber shock rod.
18. 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).



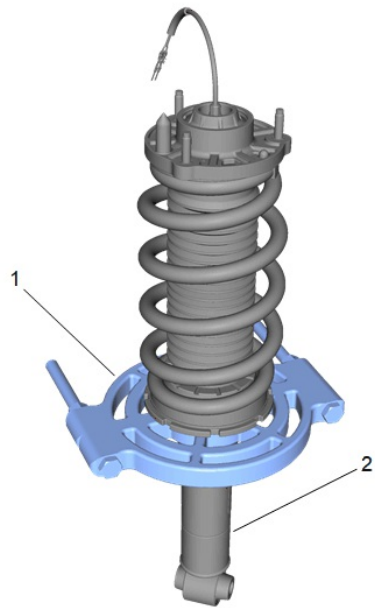
19.
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20. Remove the rear shock absorber shock rod mount nut (1).



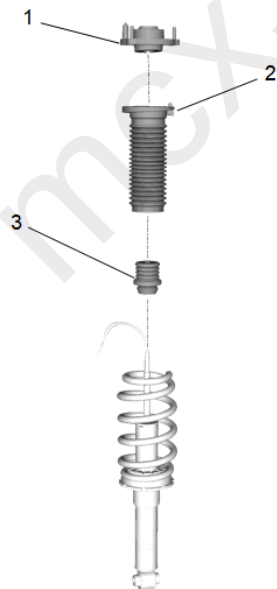
21.
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22. Carefully release the tension on the rear shock absorber assembly (2) and remove all the components from the CH-45400-BÃ Strut Spring Compressor (1).



23.
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24. Remove the *CH-45400-100* Strut Compressor Adapter (1) from the rear shock absorber assembly (2).



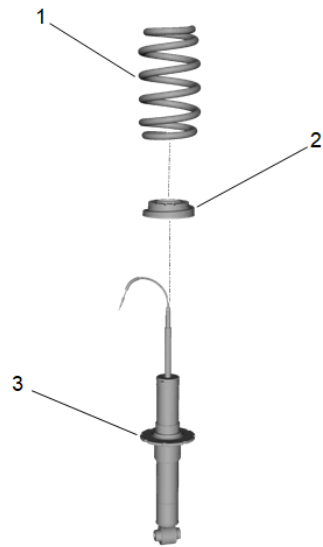
25.
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26. Guide the rear shock absorber wires through the rear shock absorber mount (1).

27. Rear Shock Absorber Mount (1) >> Remove

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

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



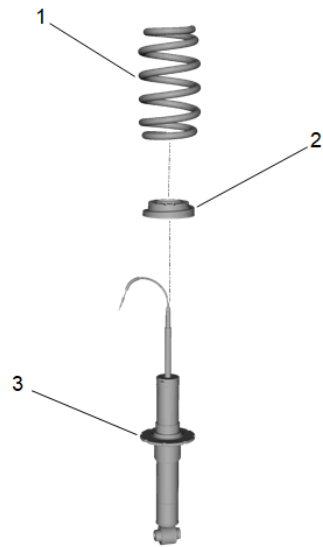
30.
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31. Rear Coil Spring (1) >> Remove

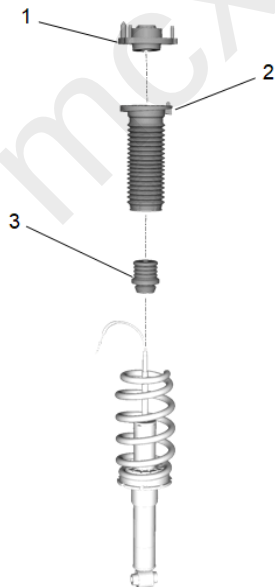
32. Rear Coil Spring Lower Insulator (2) @ Rear Shock Absorber (3) >> Remove

33. Inspect the components and replace as necessary.

Assembly Procedure

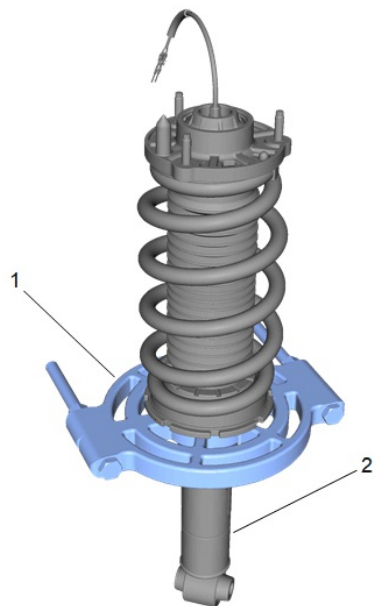


1. [Click here for full size](#)
2. Rear Coil Spring Lower Insulator (2) @ Rear Shock Absorber (3) >> Install
3. Rear Coil Spring (1) >> Install

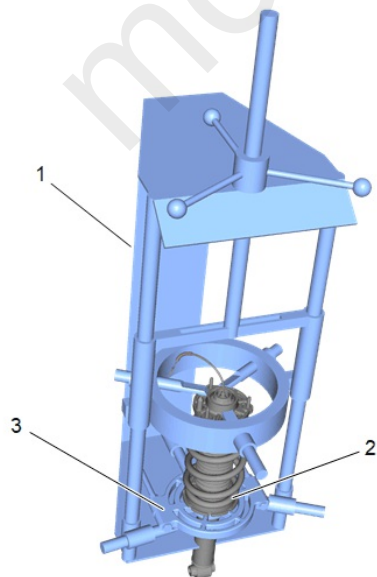


4. [Click here for full size](#)
5. Rear Shock Absorber Bumper (3) >> Install
6. Rear Coil Spring Insulator (2) >> Install

7. Guide the rear shock absorber wires through the rear shock absorber mount (1).
8. Rear Shock Absorber Mount (1) >> Install



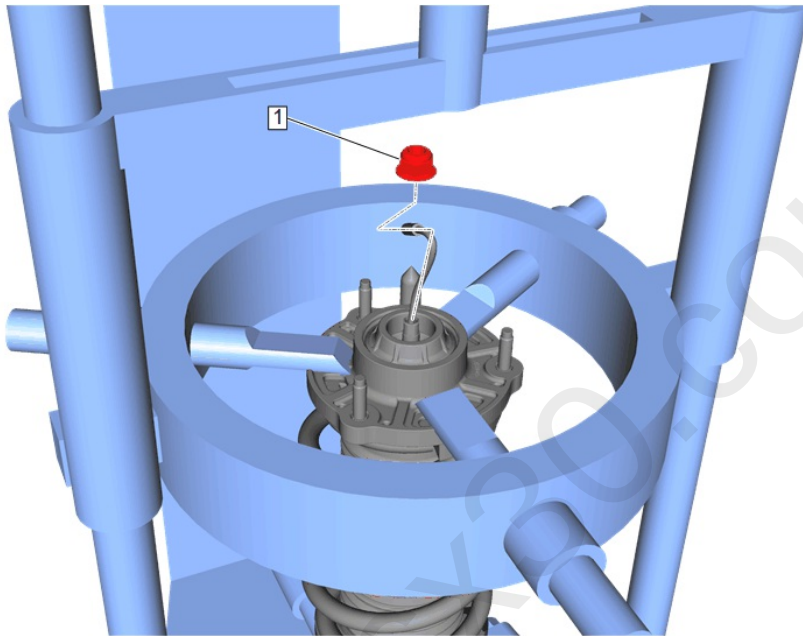
9.
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10. Install the *CH-45400-100* Strut Compressor Adapter (1) to the rear shock absorber assembly (2).



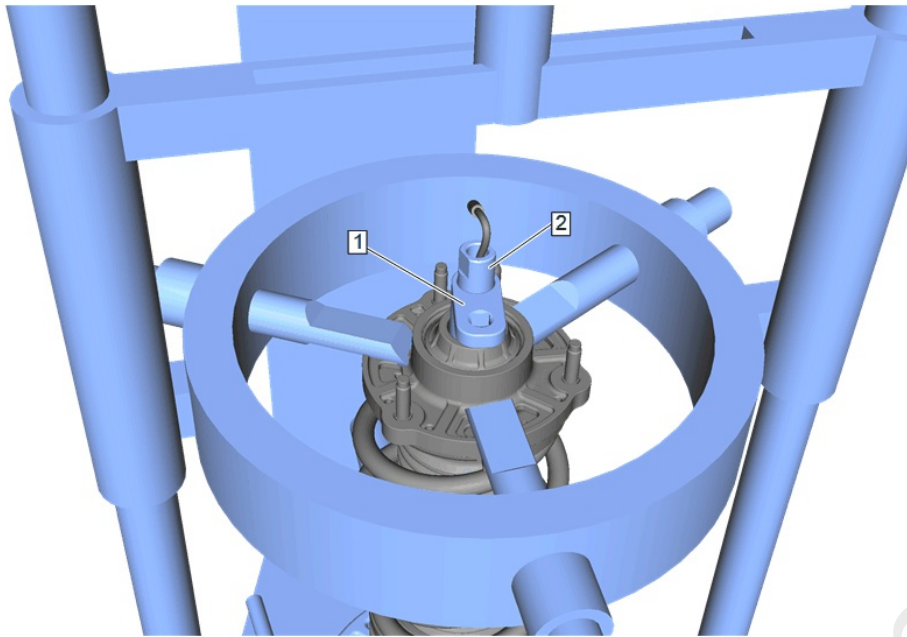
11.
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12. Warning:

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.

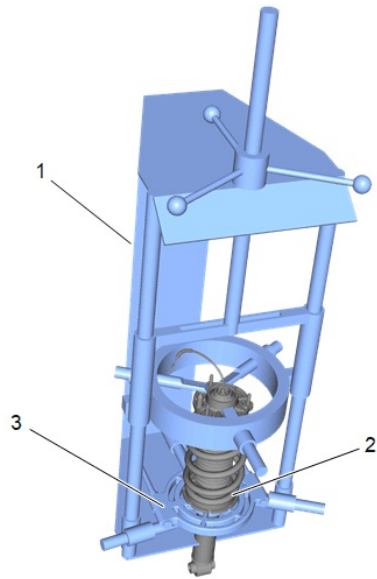
13. Place and center the rear shock absorber assembly (2) into the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
14.
 1. Position the rear shock absorber assembly (2) so the *CH-45400-100Ã*,Â Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
 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.
15. 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 while guiding the rear shock absorber wires through.



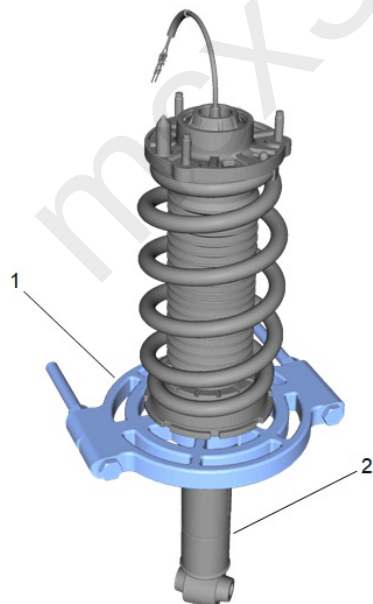
16.
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17. Loosely install the rear shock absorber shock rod mount nut (1).



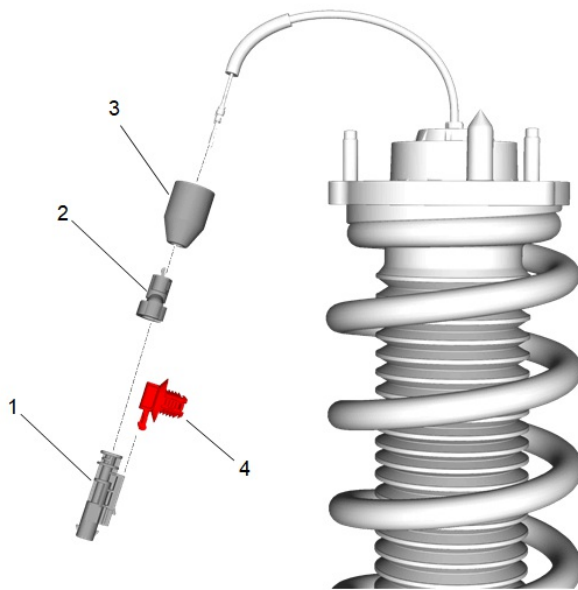
18. [Click here for full size](#)
19. Install the *CH-52936-1* Strut Removal Tool (1) to the rear shock absorber shock rod mount nut.
20. Install the *CH-52936-2* Strut Removal Tool (2) to the rear shock absorber shock rod.
21. **Caution:**
Refer to Fastener Caution.
22. While holding the rear shock 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).



23. [Click here for full size](#)
24. Carefully release the tension on the rear shock absorber assembly (2) and remove from the *CH-45400-BÃ* Strut Spring Compressor (1).



25. [Click here for full size](#)
26. Remove the *CH-45400-100Ã* Strut Compressor Adapter (1) from the rear shock absorber assembly (2).



27.

[Click here for full size](#)

28. Rear Shock Absorber Upper Cover (3) >> Install

29. Wiring Harness Clip (2) >> Install NEW

30. Note:

Ensure that the wire colors and inline male connector (1) cavities are correctly matched as noted during removal.

31. Inline Male Connector (1) >> Install NEW - Terminal Removal

32. Chassis Rear Wiring Harness Clip (4) >> Install NEW

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