

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

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

Shock Absorber, Shock Absorber Component, or Spring Replacement (FE4 with E60)

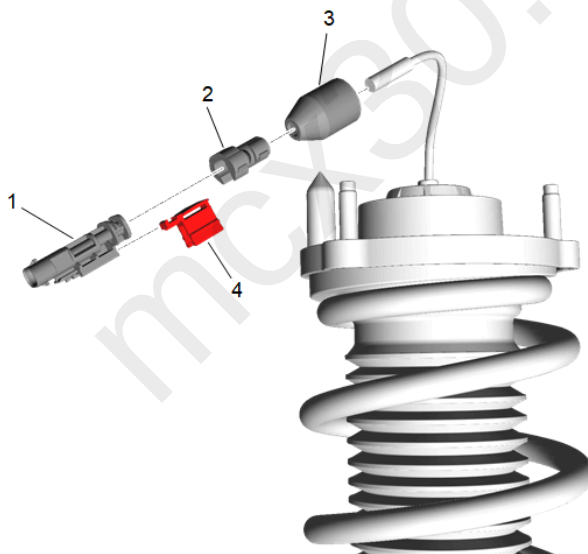
Special Tools

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

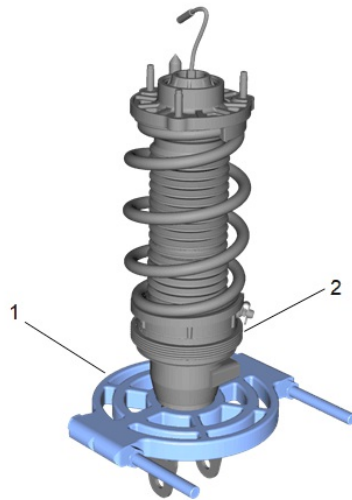
Equivalent regional tools: Special Tools

Disassembly Procedure

1. Remove the front shock absorber assembly. Front Shock Absorber and Spring Removal and Installation

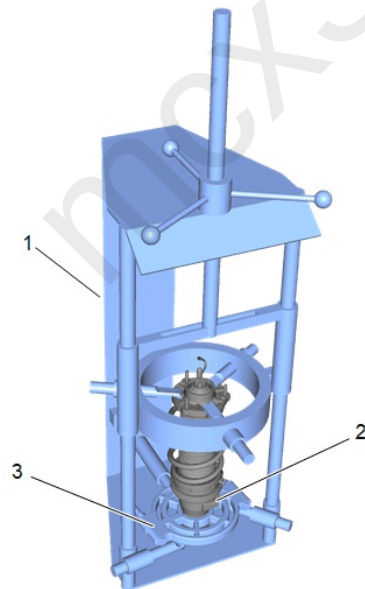


2.
Click here for full size
3. Chassis Front Wiring Harness Clip (4) >> Remove and DISCARD
4. Wiring Harness Clip (2) >> Remove and DISCARD
5. Note:
Note the wire color and inline male connector (1) cavity matching prior to removing the wires.
6. Inline Male Connector (1) >> Remove and DISCARD - Terminal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



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

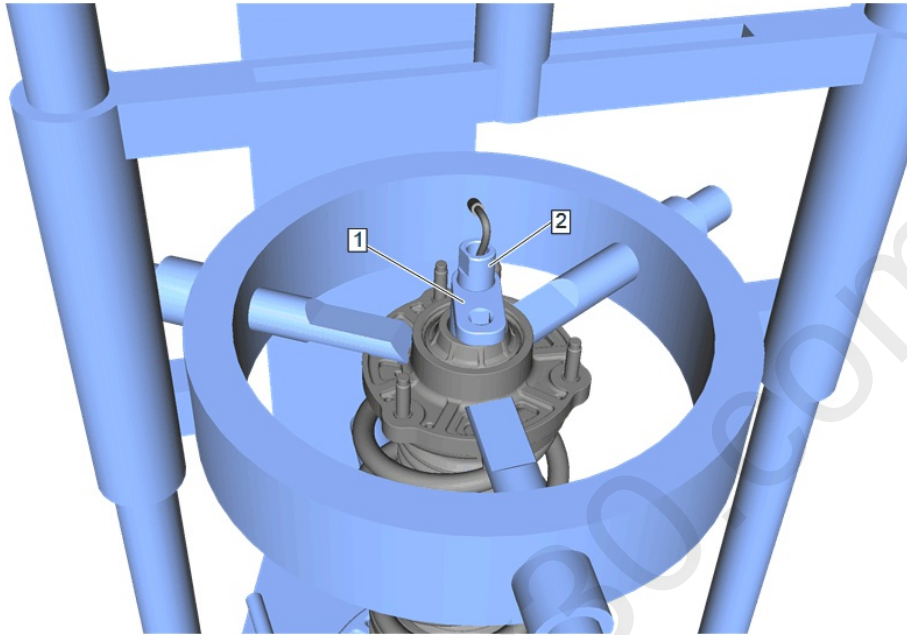


10.
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11. **Warning:**

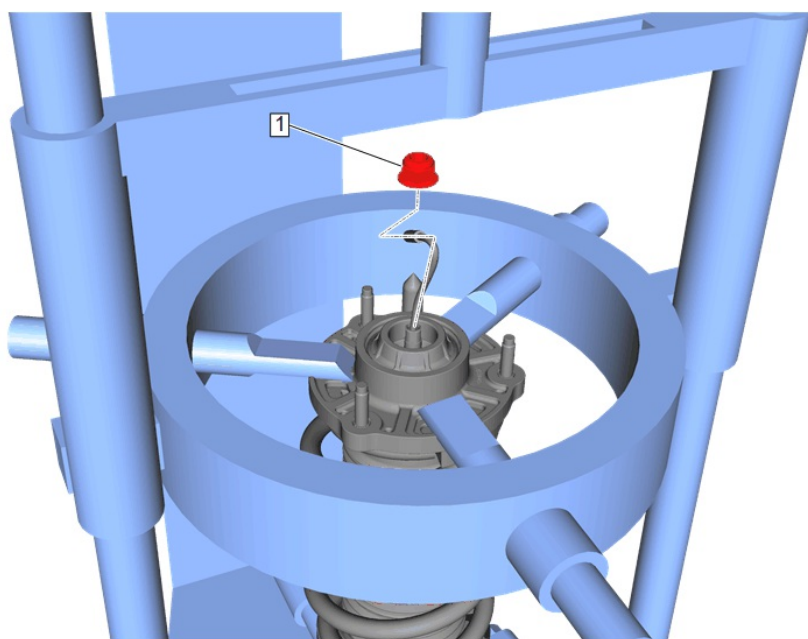
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before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

12. Place and center the front shock absorber assembly (2) into the *CH-45400-B* Strut Spring Compressor (1).
13.
 1. Position the front 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 front shock absorber mount.
14. Using the *CH-45400-B* Strut Spring Compressor (1), carefully compress the front coil spring enough to remove tension from the front strut mount.



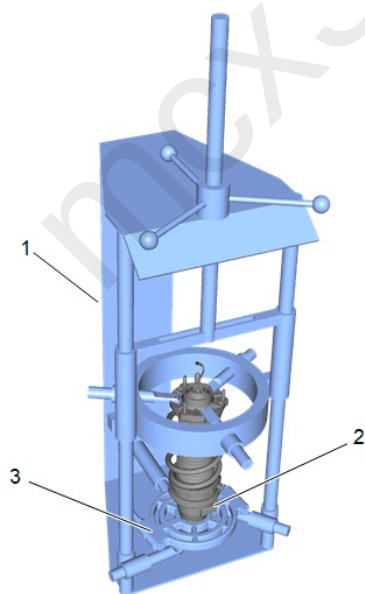
15.

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16. Install the *CH-52936-1* Strut Removal Tool (1) to the front shock absorber shock rod mount nut.
17. Install the *CH-52936-2* Strut Removal Tool (2) to the front shock absorber shock rod.
18. While holding the front shock absorber shock rod with the *CH-52936-2* Strut Removal Tool (2), loosen the front shock absorber shock rod mount nut with the *CH-52936-1* Strut Removal Tool (1).



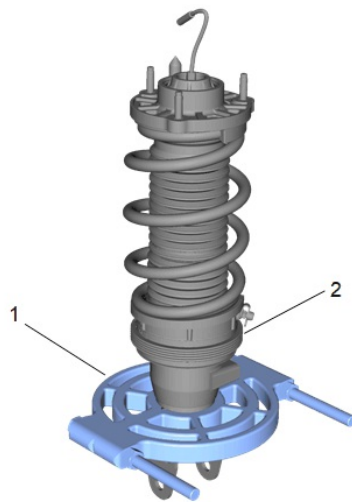
19.
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20. Remove the front shock absorber shock rod mount nut (1).



21.
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22. Carefully release the tension on the front 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 front shock absorber assembly (2).



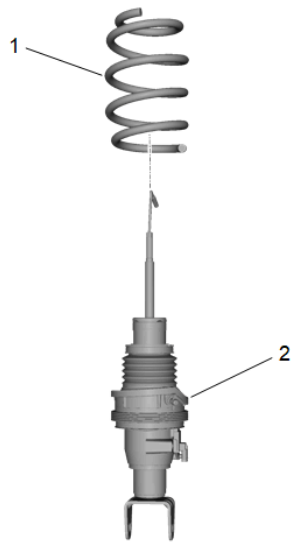
25.
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26. Guide the front shock absorber wires through the front shock absorber mount (1).

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

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

29. Front Shock Absorber Upper Bumper (3) >> Remove

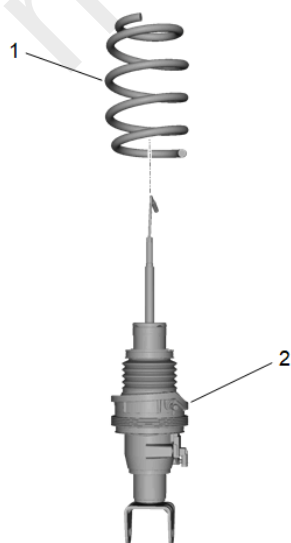


30.
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31. Front Coil Spring (1) @ Front Shock Absorber (2) >> Remove

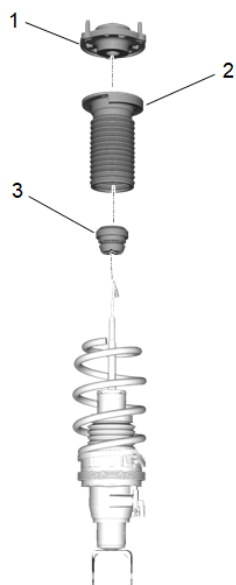
32. Inspect the components and replace as necessary.

Assembly Procedure



1.
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2. Front Coil Spring (1) @ Front Shock Absorber (2) >> Install



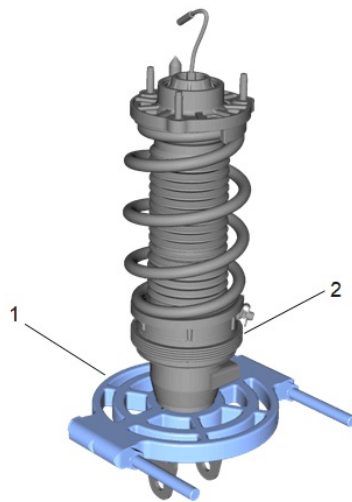
3.
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4. Front Shock Absorber Upper Bumper (3) >> Install

5. Front Coil Spring Insulator (2) >> Install

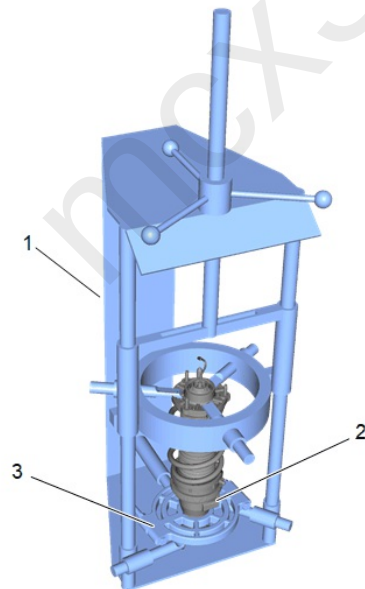
6. Guide the front shock absorber wires through the front shock absorber mount (1).

7. Front Shock Absorber Mount (1) >> Install



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

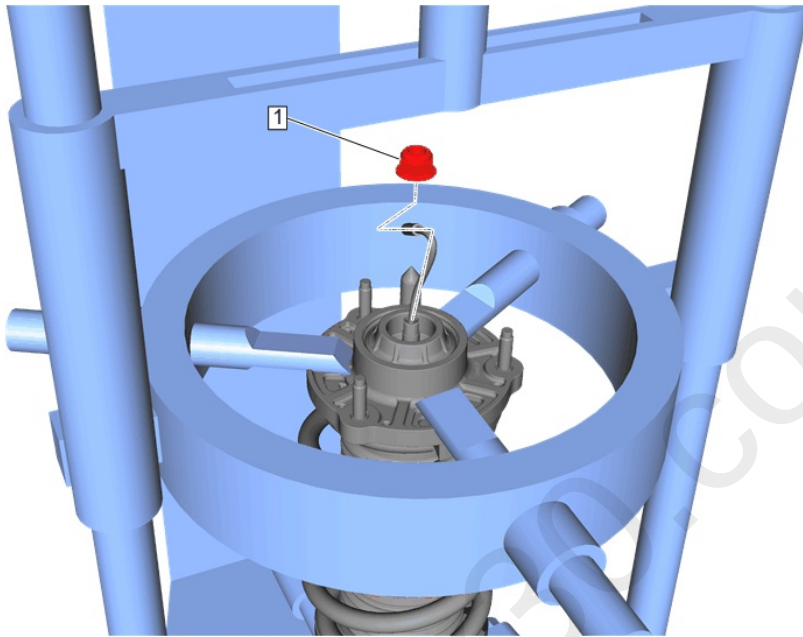


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11. **Warning:**

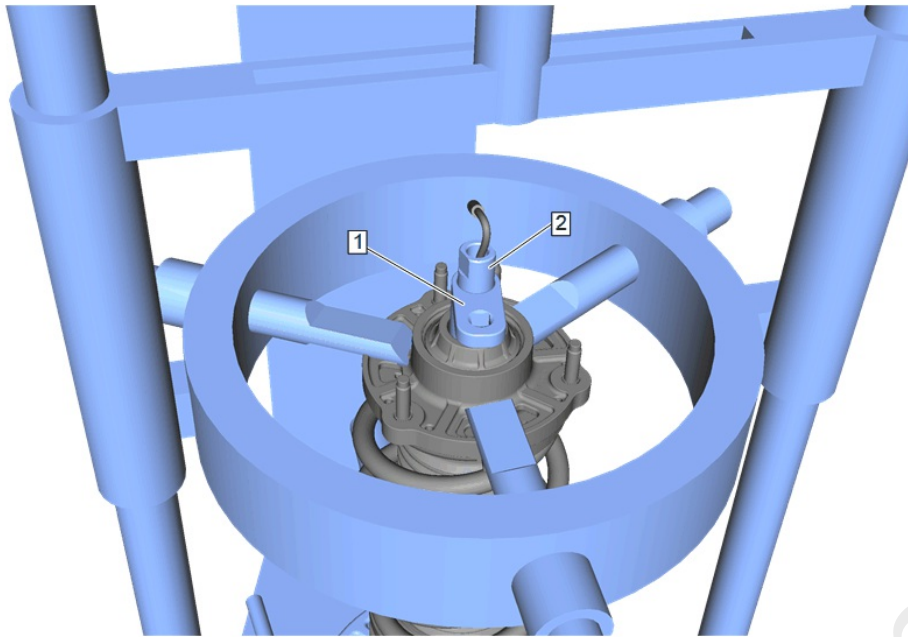
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before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

12. Place and center the front shock absorber assembly (2) into the *CH-45400-B* Strut Spring Compressor (1).
13.
 1. Position the front 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 front shock absorber mount.
14. Using the *CH-45400-B* Strut Spring Compressor (1), carefully compress the front coil spring enough to allow the threaded portion of the front shock absorber rod to pass through the front shock absorber mount while guiding the front shock absorber wires through.

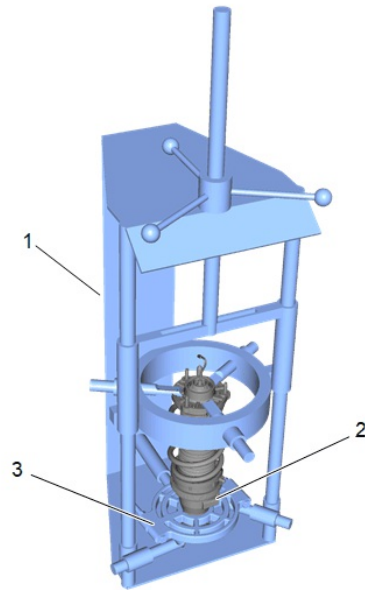


15.

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

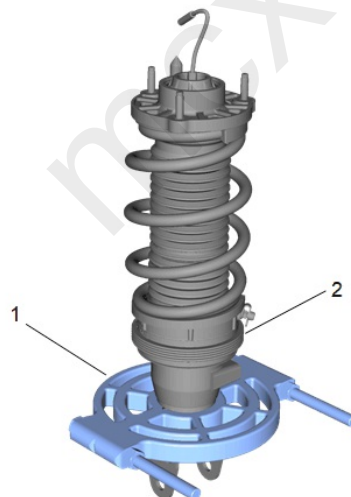


17. [Click here for full size](#)
18. Install the *CH-52936-1* Strut Removal Tool (1) to the front shock absorber shock rod mount nut.
19. Install the *CH-52936-2* Strut Removal Tool (2) to the front shock absorber shock rod.
20. **Caution:**
Refer to Fastener Caution.
21. While holding the front shock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



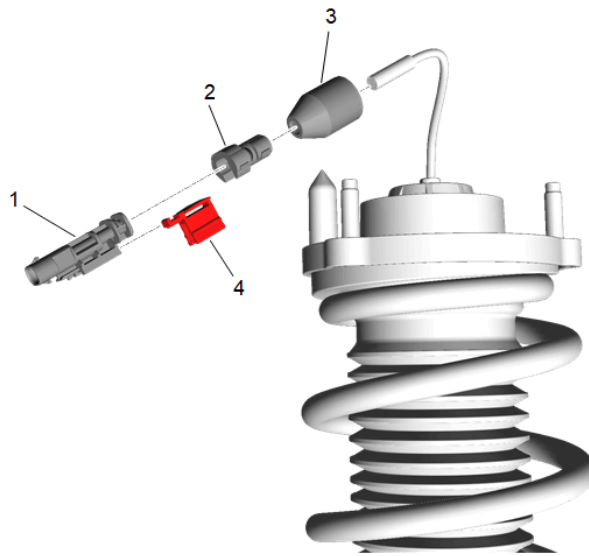
22.
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23. Release the tension on the front shock absorber assembly (2) and remove from the *CH-45400-BÃ* Strut Spring Compressor (1).



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



26.

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27. Front Suspension Strut Mount Cover (3) >> Install

28. Note:

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

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

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

31. Chassis Front Wiring Harness Clip (4) >> Install NEW

32. Install the front shock absorber assembly. Front Shock Absorber and Spring Removal and Installation