

2022 CHEVROLET CORVETTE SERVICE MANUAL

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1. [Suspension](#)

2. [Front Suspension](#)

3. [Repair Instructions](#)

- 4.

Shock Absorber, Shock Absorber Component, or Spring Replacement (FE1 or FE3 with E60)

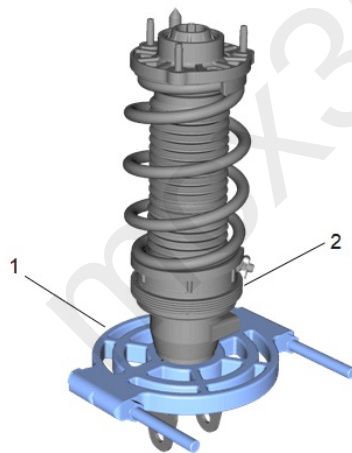
Special Tools

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

Equivalent regional tools: Special Tools

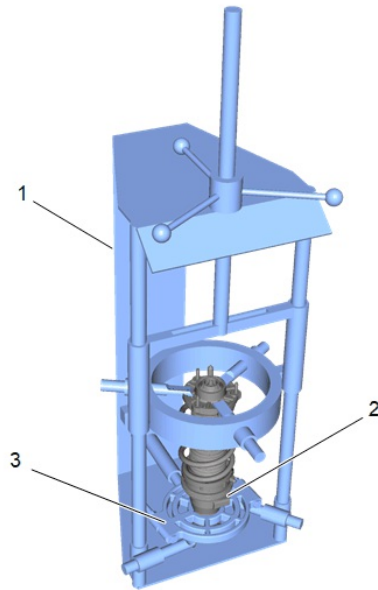
Disassembly Procedure

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



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

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



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

5. **Warning:**

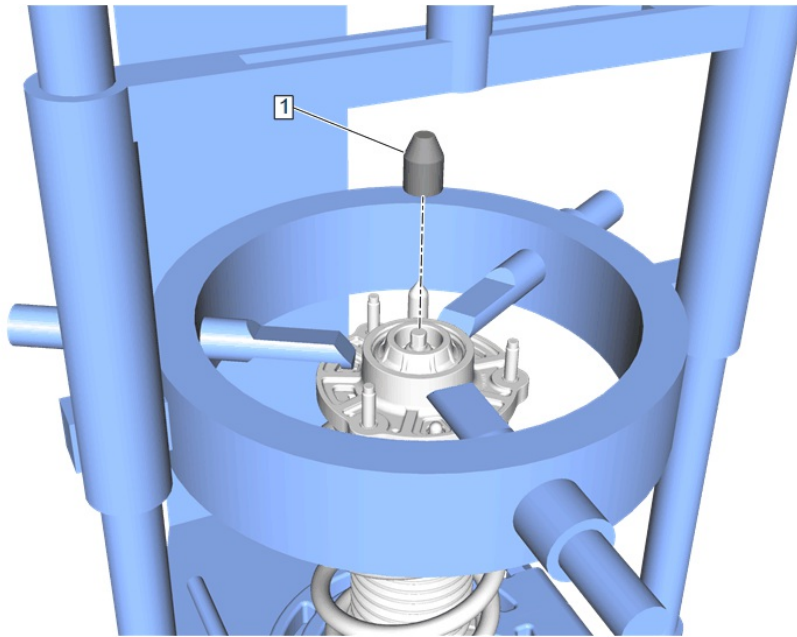
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before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

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

- 7.

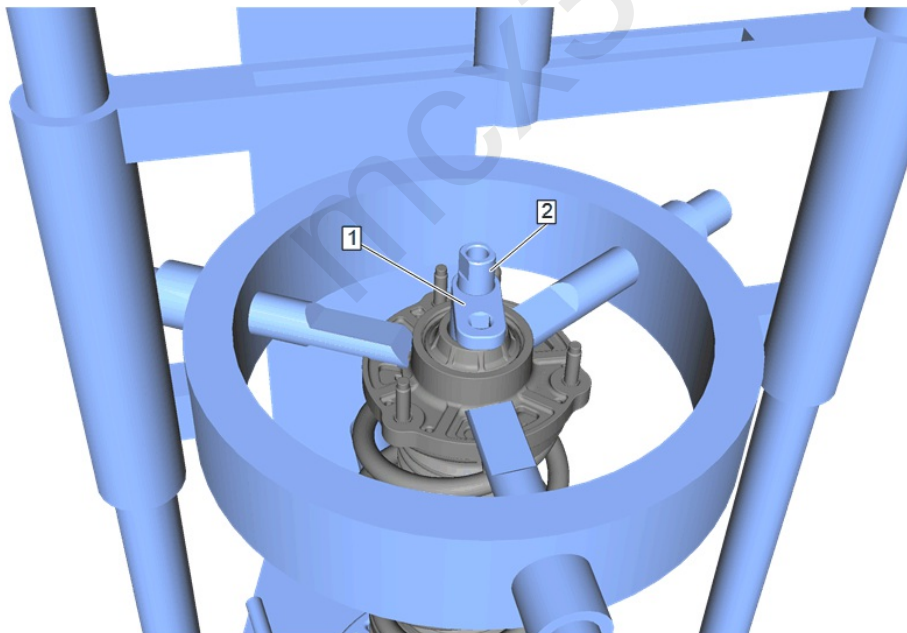
1. Position the front shock absorber assembly (2) so the *CH-45400-100Ã*,Â Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
2. Position the upper arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1) evenly onto the top of the front shock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

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



9.
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10. Front Suspension Strut Mount Cover (1) >> Remove



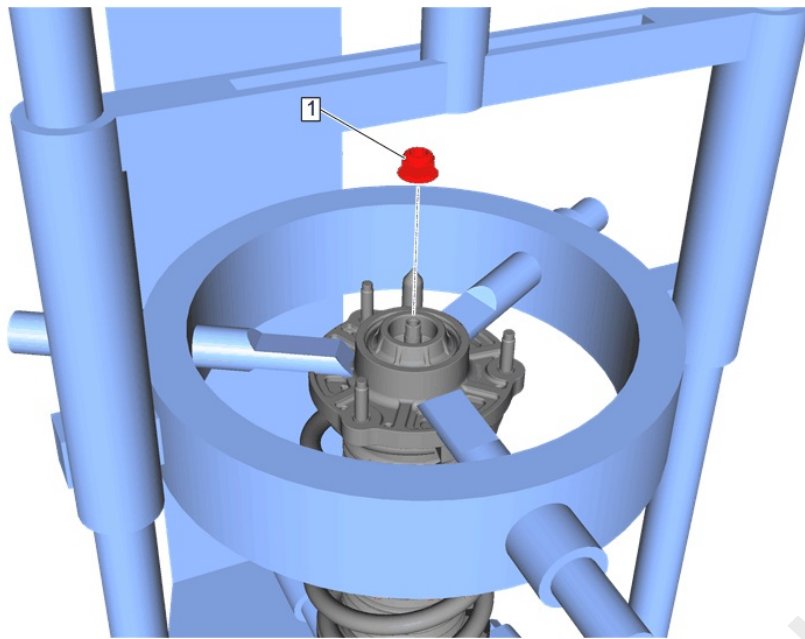
11.
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12. Install the *CH-52936-1*ˆ,ˆ Strut Removal Tool (1) to the front shock absorber shock rod mount nut.

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

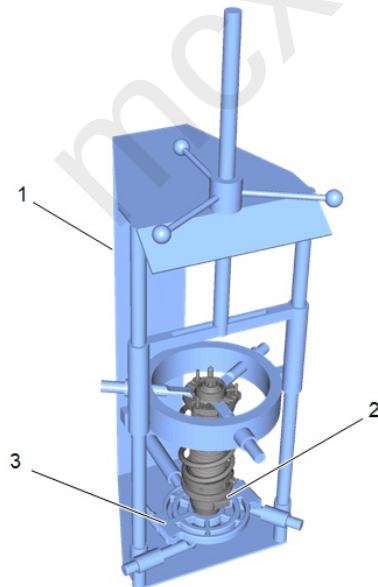
14. While holding the front shock absorber shock rod with the *CH-52936-2*ˆ,ˆ Strut Removal Tool (2), loosen the front shock absorber

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



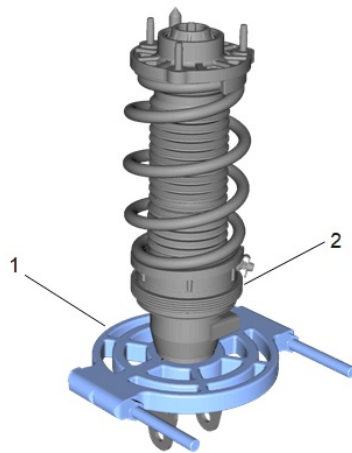
15.
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16. Front Shock Absorber Shock Rod Mount Nut (1) >> Remove



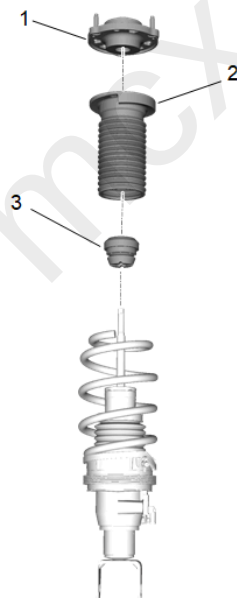
17.
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18. Carefully release the tension on the front shock absorber assembly (2) and remove all the components from the *CH-45400-B* Strut Spring Compressor (1).



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

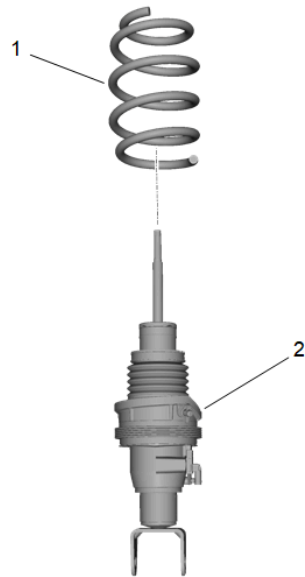


21.
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22. Front Shock Absorber Mount (1) >>> Remove

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

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

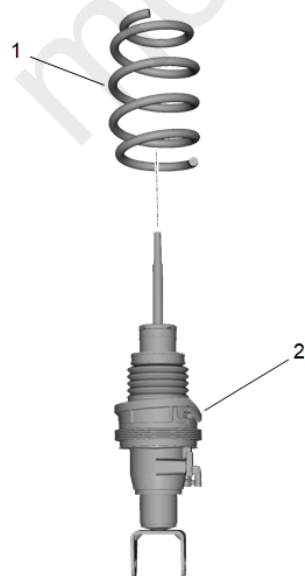


25.
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26. Front Coil Spring (1) @ Front Shock Absorber (2) >> Remove

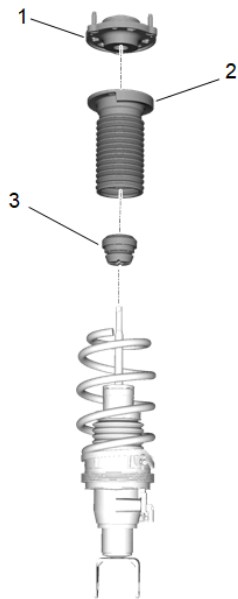
27. Inspect the components and replace as necessary.

Assembly Procedure

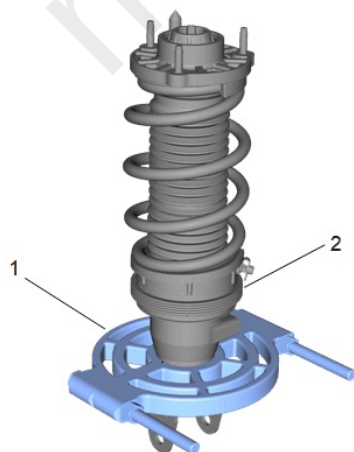


1.
[Click here for full size](#)

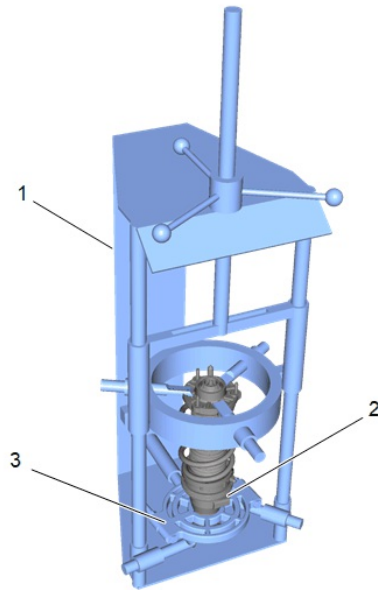
2. Front Coil Spring (1) @ Front Shock Absorber (2) >> Install



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



7. [Click here for full size](#)
8. Install the CH-45400-100A Strut Compressor Adapter (1) to the front shock absorber assembly (2).



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

10. Warning:

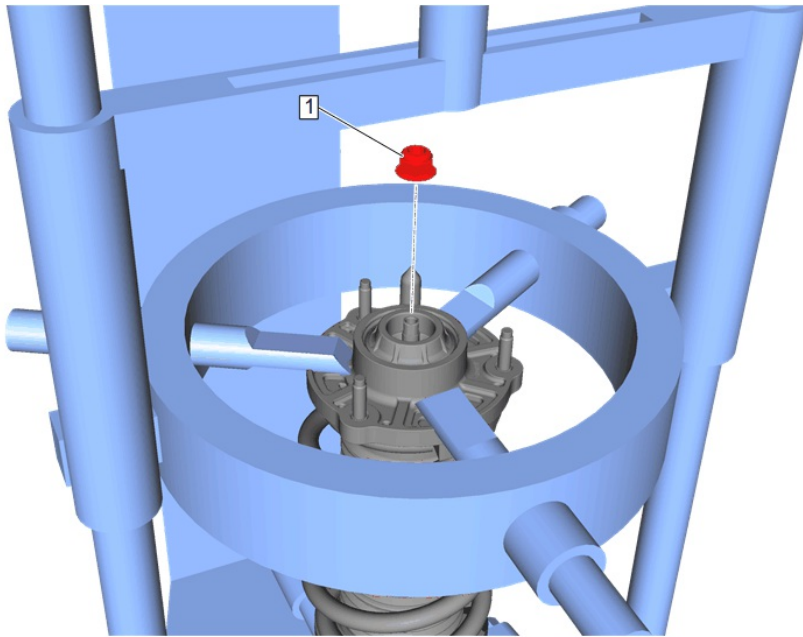
To prevent personal injury and/or component damage, use the proper tools to support and compress the coil spring prior to removal of the strut shaft nut when removing the coil spring. The coil spring is under extreme pressure and can become a projectile should the spring separate from the strut before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

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

12.

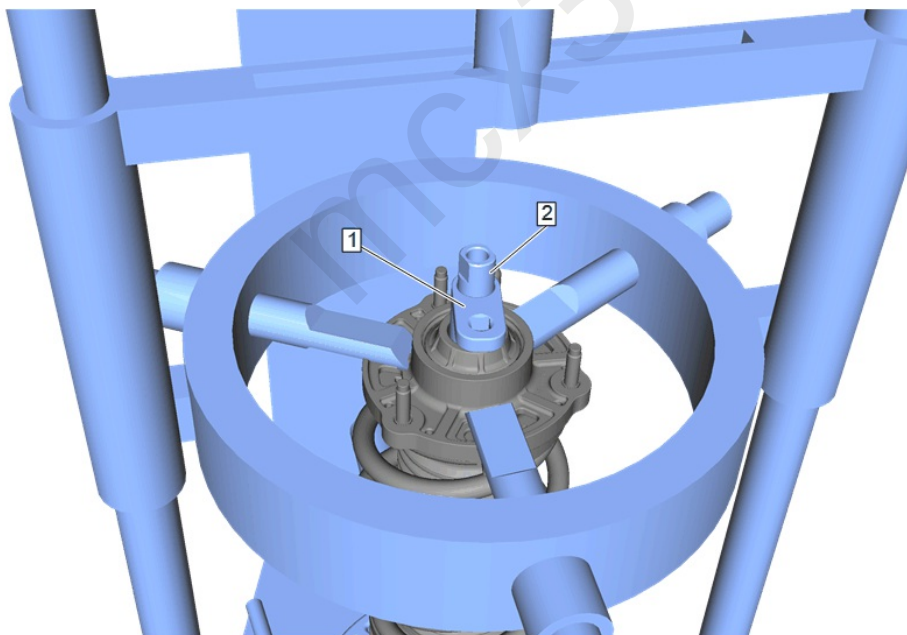
1. Position the front shock absorber assembly (2) so the *CH-45400-100Ã*,Â Strut Compressor Adapter (3) rests on the three lower arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1).
2. Position the upper arms of the *CH-45400-BÃ*,Â Strut Spring Compressor (1) evenly onto the top of the front shock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

13. Using the *CH-45400-BÃ*,Â 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.



14.
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15. Front Shock Absorber Shock Rod Mount Nut (1) >> Loosely install



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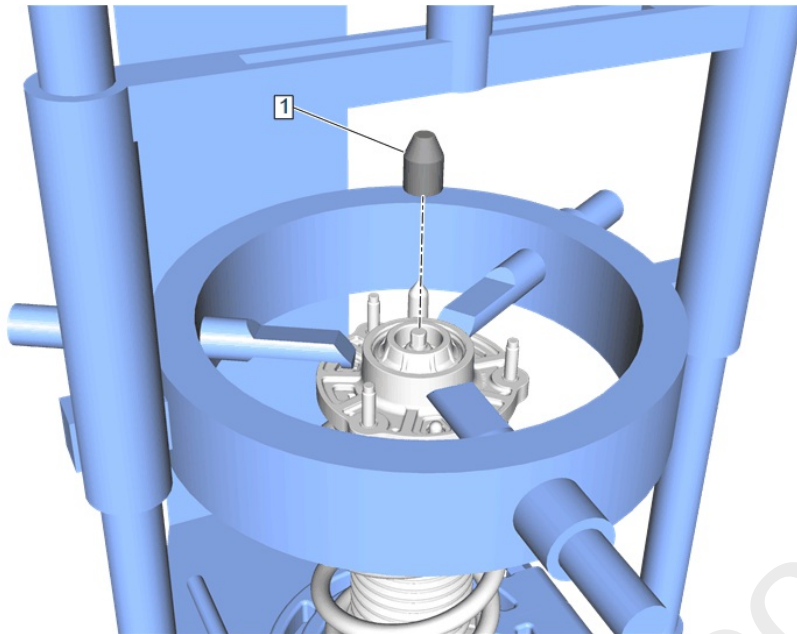
17. Install the *CH-52936-1* Strut Removal Tool (1) to the front shock absorber shock rod mount nut.

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

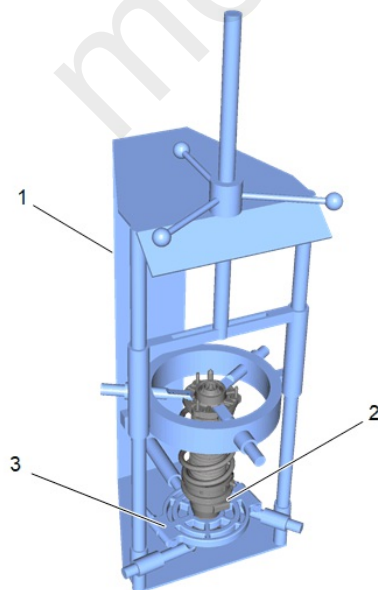
19. Caution:

Refer to Fastener Caution.

20. 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).

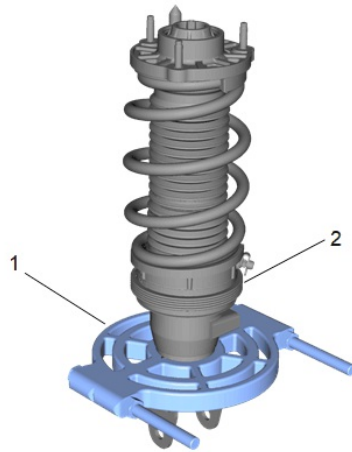


21. [Click here for full size](#)
22. Front Suspension Strut Mount Cover (1) >> Install



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

24. Carefully release the tension on the front shock absorber assembly (2) and remove from the CH-45400-100,Â Strut Spring Compressor Adapter (1).



25. [Click here for full size](#)
26. Remove the CH-45400-100,Â Strut Compressor Adapter (1) from the front shock absorber assembly (2).
27. Install the front shock absorber assembly. Front Shock Absorber and Spring Removal and Installation