

CERTAIN 2013 THROUGH 2015 MODEL YEAR FUSION AND MKZ AND 2015 MODEL YEAR EDGE VEHICLES — STEERING GEAR MOTOR BOLT CORROSION

NEW ! SERVICE PROCEDURE

Remove Underbody Shields - Fusion and MKZ Vehicles

NOTE: For Edge vehicles, proceed to Page 2.

1. Remove the engine front undershield and the engine undershield. Please follow the Workshop Manual (WSM) procedures in Section 501-02.
2. Remove both underbody side shields. See Figure 1.

NOTE: Left side shown right side similar.

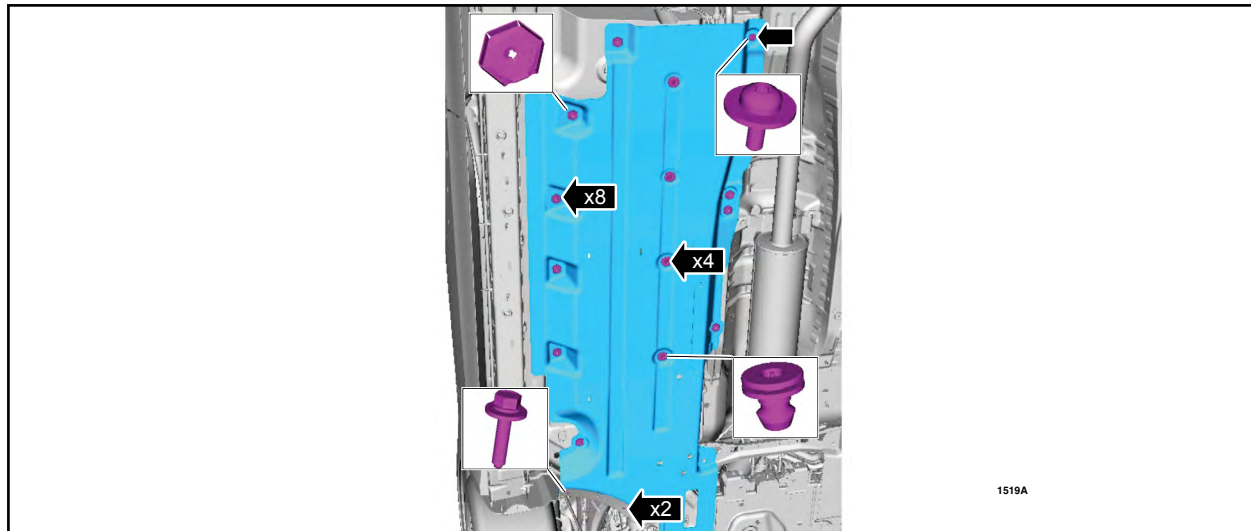


FIGURE 1

3. Remove the six nuts and the underbody crossbrace. See Figure 2.

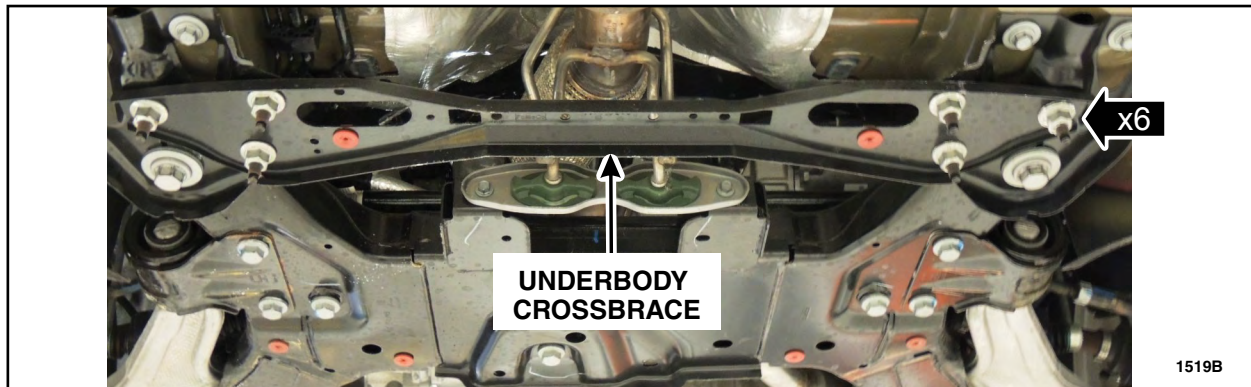


FIGURE 2



Remove Underbody Shields - Edge Vehicles

1. Remove the underbody shield. See Figure 3.

NOTE: One piece underbody shield shown two piece underbody shield similar.

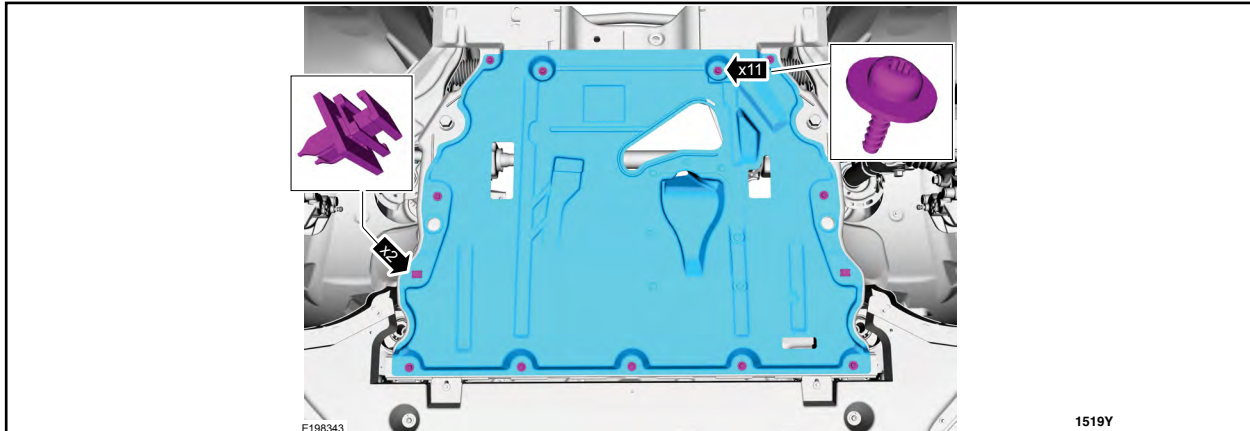


FIGURE 3

2. If equipped, remove the center underbody shield. See Figure 4.

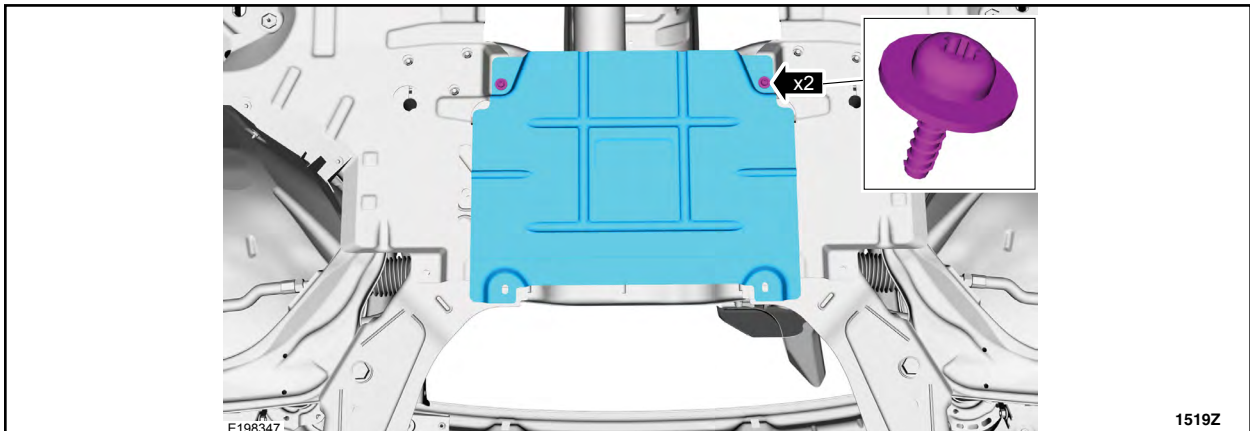


FIGURE 4

3. If equipped, remove the steering gear motor heat shield. See Figure 5.

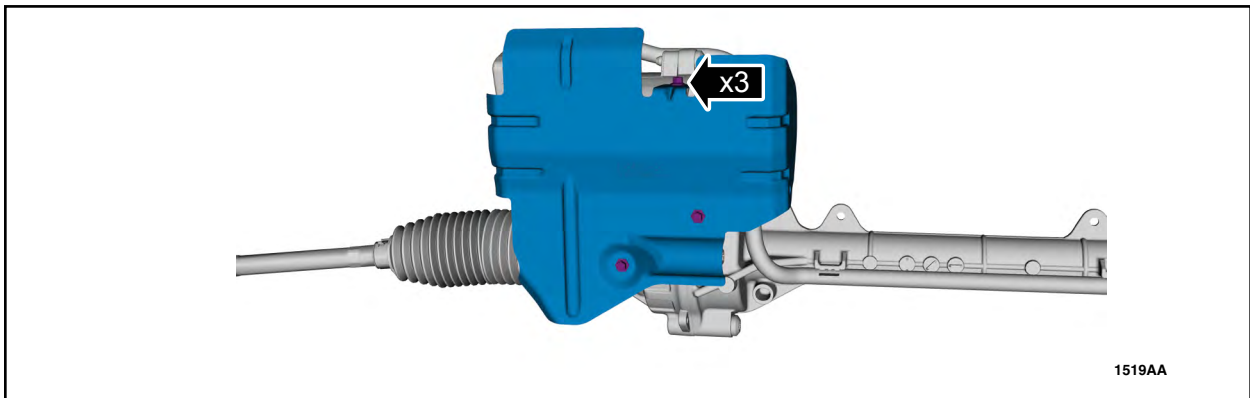


FIGURE 5



MKZ Vehicles Equipped With 3.7L

1. Remove the exhaust y-pipe. Please follow the WSM procedures in Section 309-00B.
2. Remove the right hand (RH) roll restrictor bolt. See Figure 6.

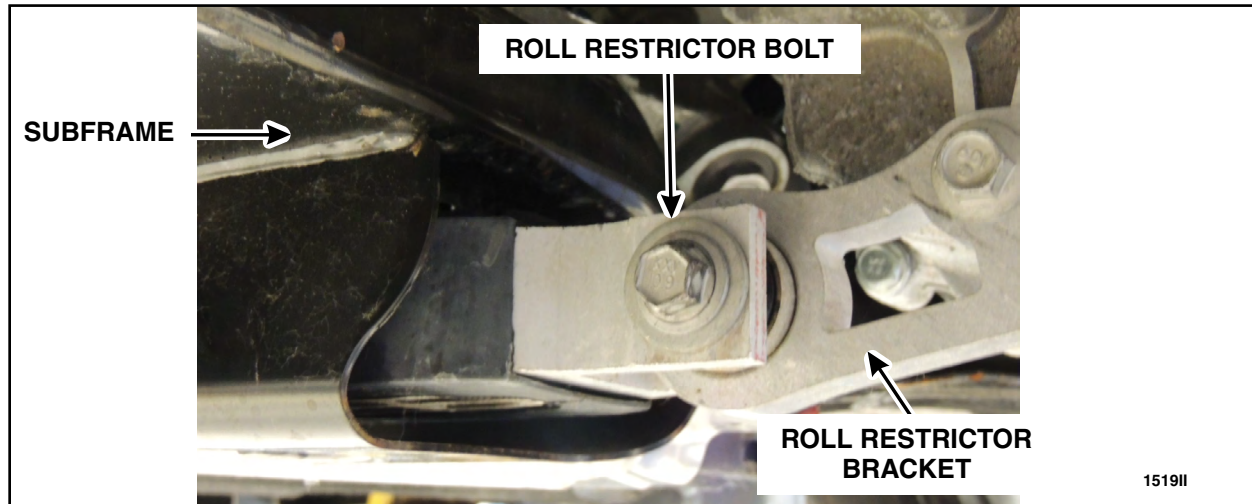


FIGURE 6

3. With the help of an assistant using a pry bar between the subframe and roll restrictor bracket, position the engine forward to provide clearance. Remove the steering gear motor heat shield. See Figure 7.

NOTE: Edge steering gear motor heat shield shown MKZ similar.

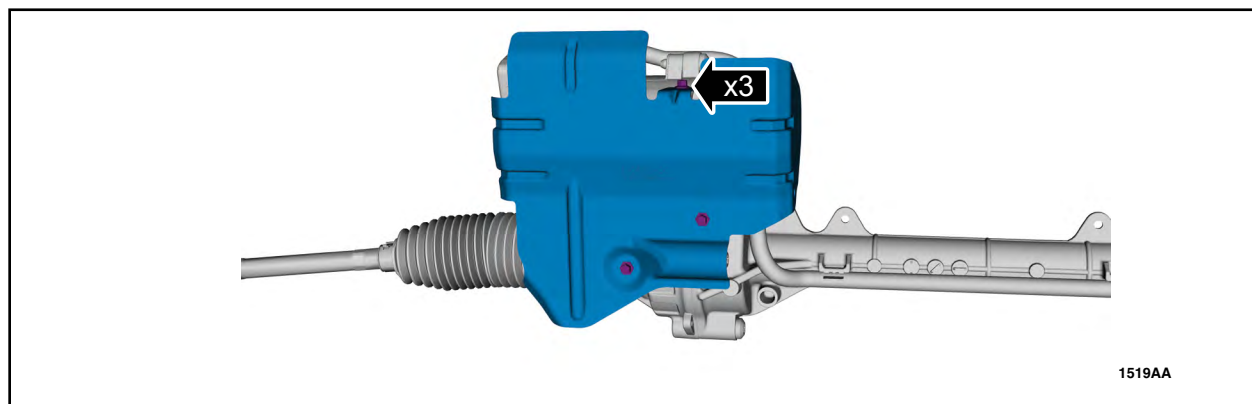


FIGURE 7



New in-stock - Fusion and MKZ Vehicles

1. For new in-stock vehicles, proceed directly to "Apply Corrosion Protection" on Page 7.
Application of corrosion protection is the only service required on new in-stock vehicles.

Steering Gear Motor Inspection - Sold Vehicles Only

1. Inspect the steering gear motor for signs of separation, broken or missing bolts. See Figure 8.
2. Are any of the bolts broken or missing, or is a gap present between the motor and motor housing?

Yes – replace the steering gear. Please follow the WSM procedures in Section 211-02.

Proceed to "Apply Corrosion Protection" on Page 7.

No – proceed to "Replace Steering Gear Motor Bolts".

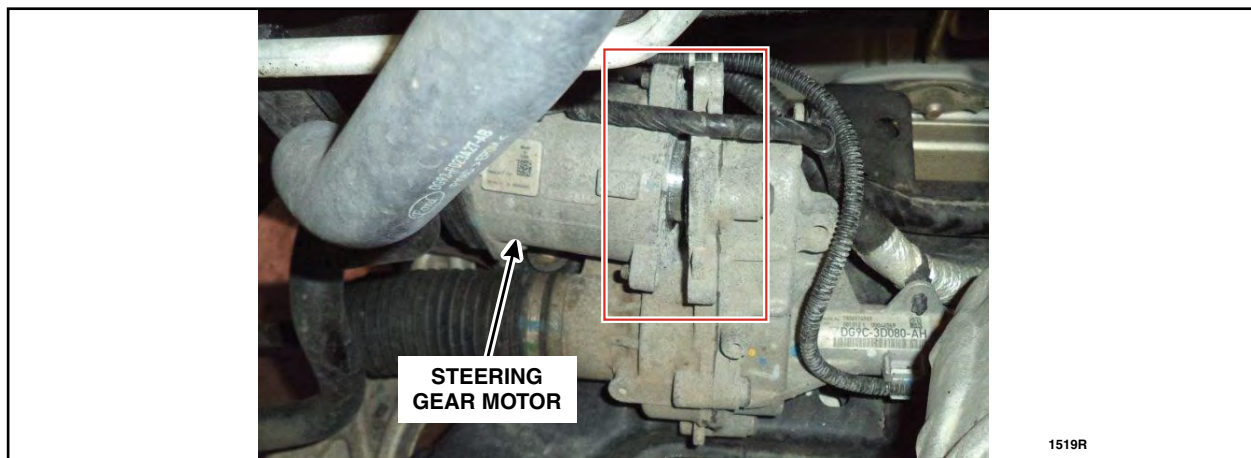


FIGURE 8

Replace Steering Gear Motor Bolts - Sold Vehicles Only

NOTE: This repair involves the replacement of the three steering gear motor to steering gear housing bolts. See Figures 9, 10, 11, 12 and 13. In-stock vehicles do not require installation of new bolts because they did not have time to accumulate corrosion.

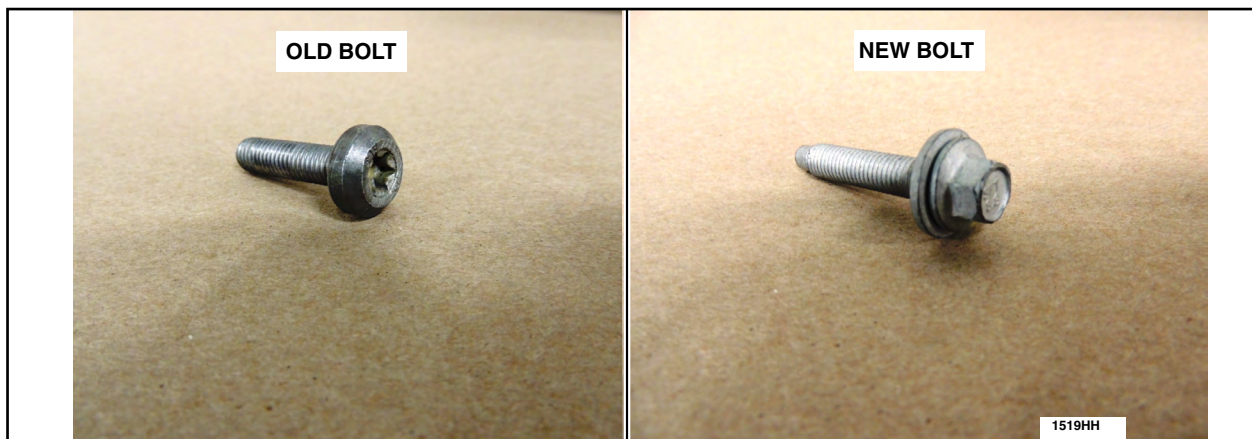


FIGURE 9



Important: The steering gear motor bolts must be removed and replaced one at a time to preserve belt tension. Failure to do so may result in belt damage and steering gear replacement may be required.

1. Working from the front of the subframe, first replace steering gear motor bolt one. Then replace bolt two. See Figures 10 and 11.

- Tighten to 22.5 Nm (17 lb-ft).

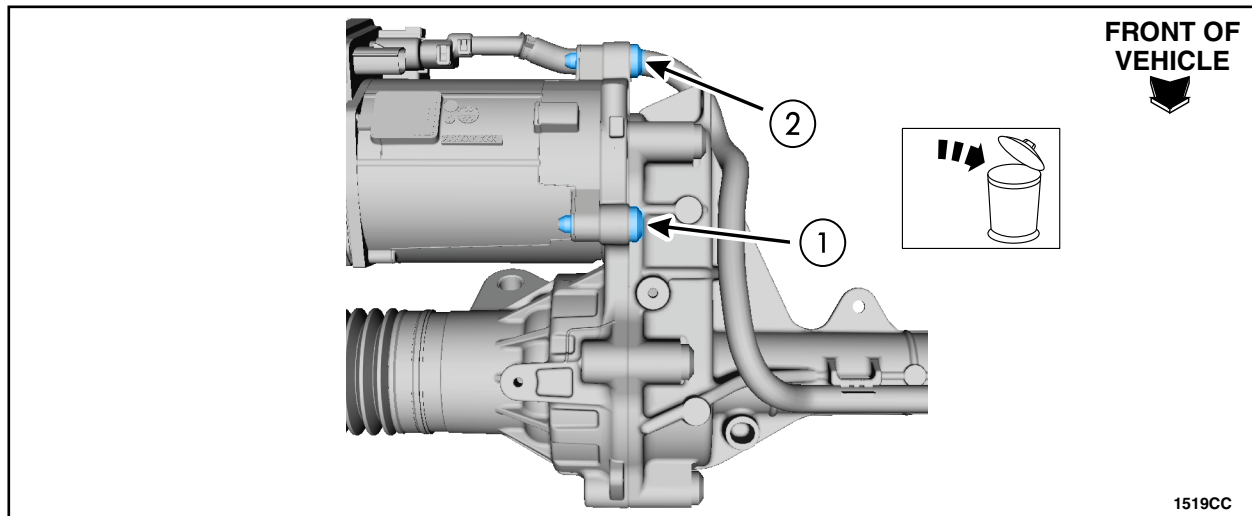


FIGURE 10

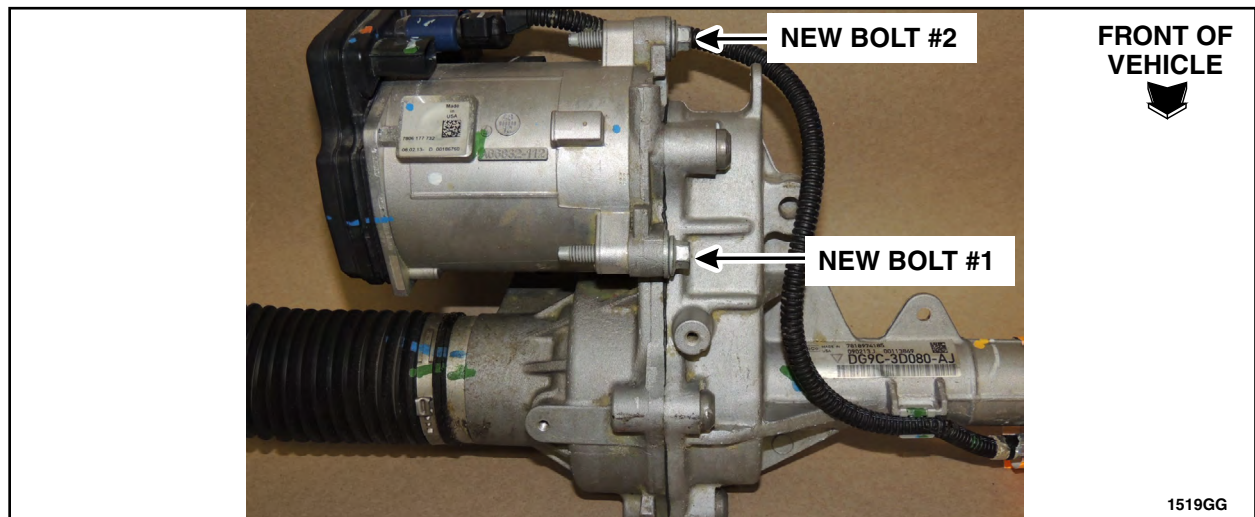


FIGURE 11



2. Working from the rear of the subframe, replace steering gear motor bolt three, then proceed to "Apply Corrosion Protection" on Page 7. See Figures 12 and 13.

- Tighten to 22.5 Nm (17 lb-ft).

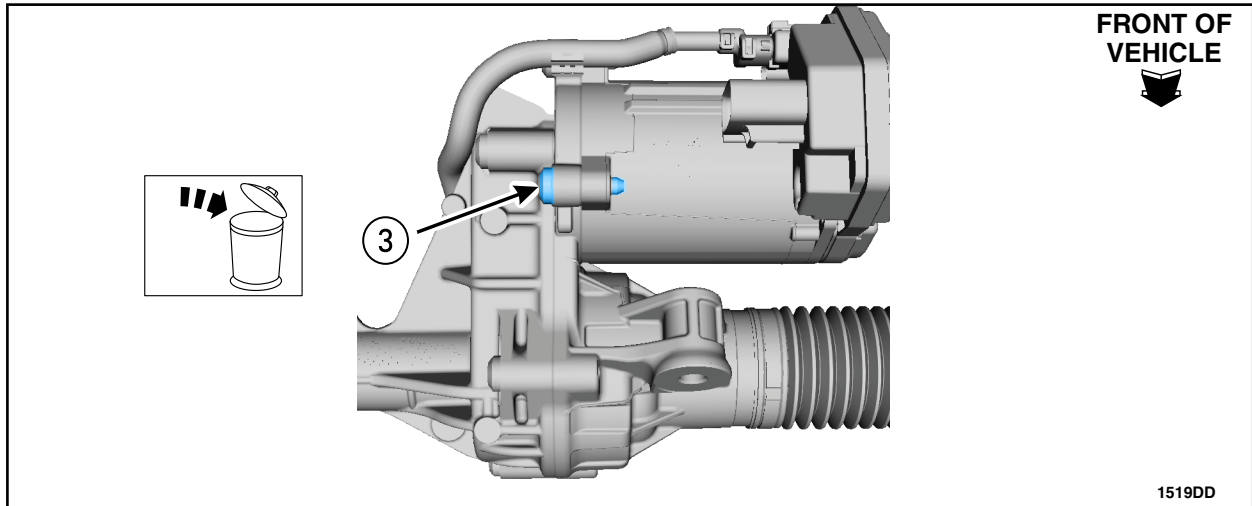


FIGURE 12

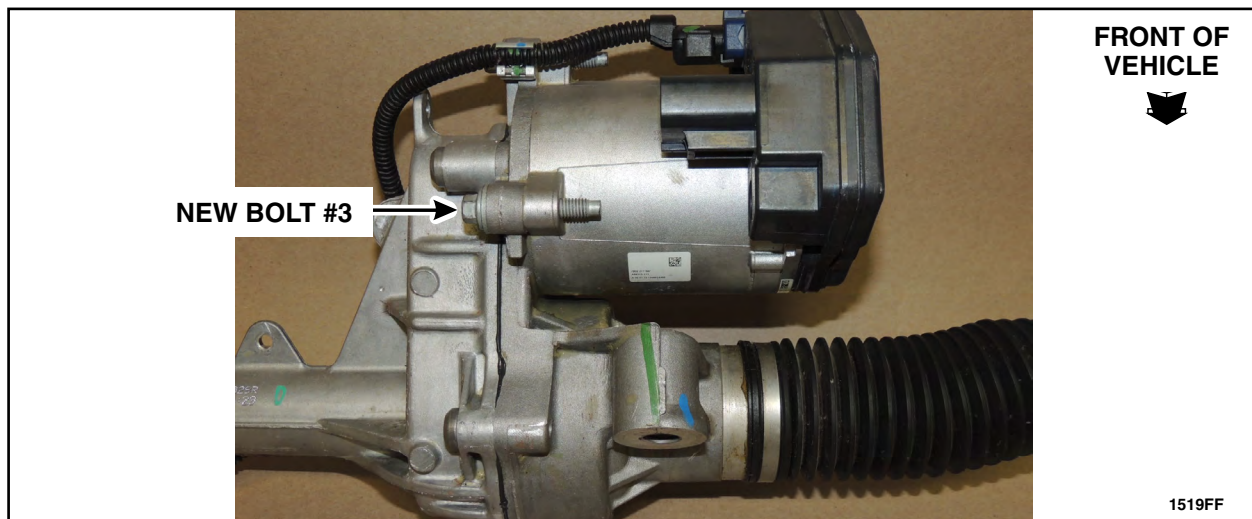


FIGURE 13



Apply Corrosion Protection

NOTE: Valugard Rust Inhibitor Aerosol VG-101A or Daubert NOX RUST® 7703-W Corrosion Protection (sealant) must be applied to the eight steering gear bolt heads, threads, and the steering gear motor to gear housing mating seam. See Figures 14 and 15.

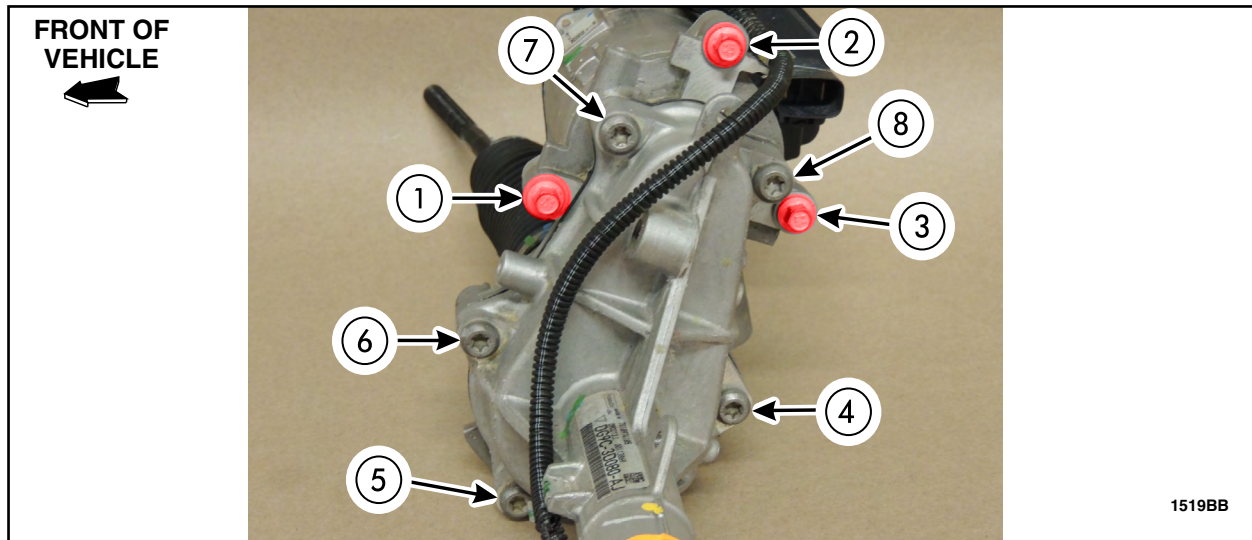


FIGURE 14

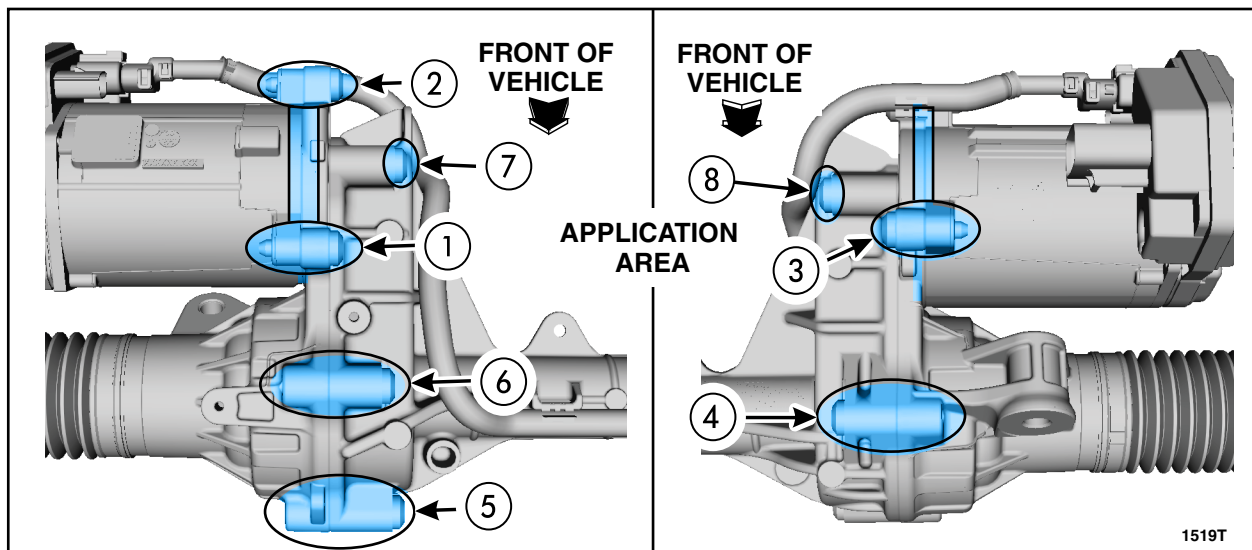


FIGURE 15



1. Remove the RH front wheel. Please follow the WSM procedures in Section 204-04A.
2. Working from inside the RH wheelwell, insert spray nozzle under motor and forward between motor and gear. Apply sealant to housing and gear motor seam, gear motor and housing bolts five and six heads, threads and thread holes. See Figures 16 and 17.

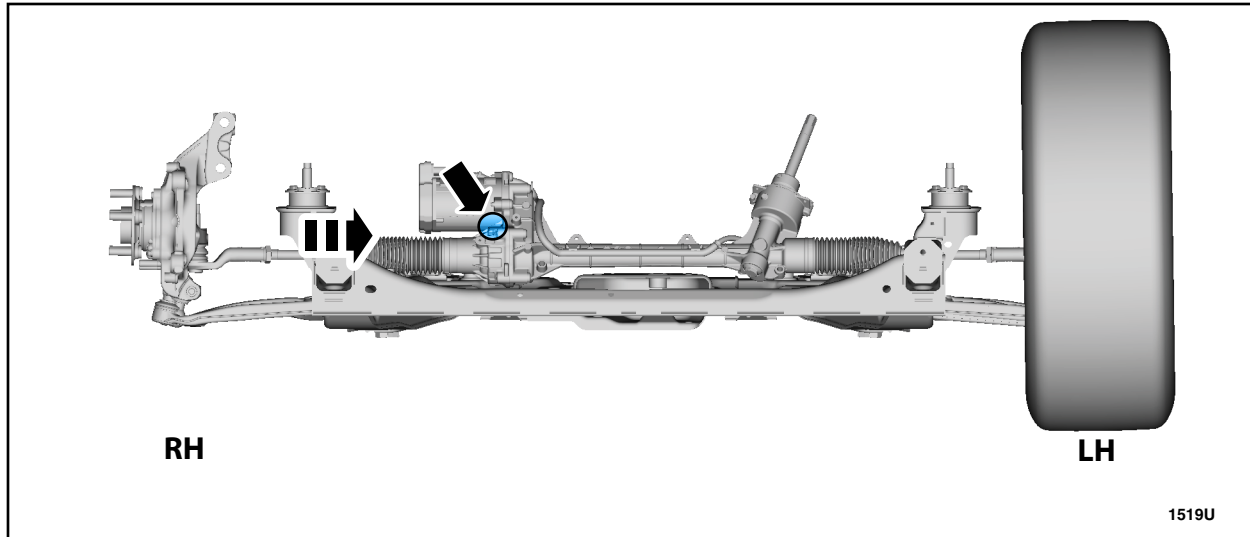


FIGURE 16

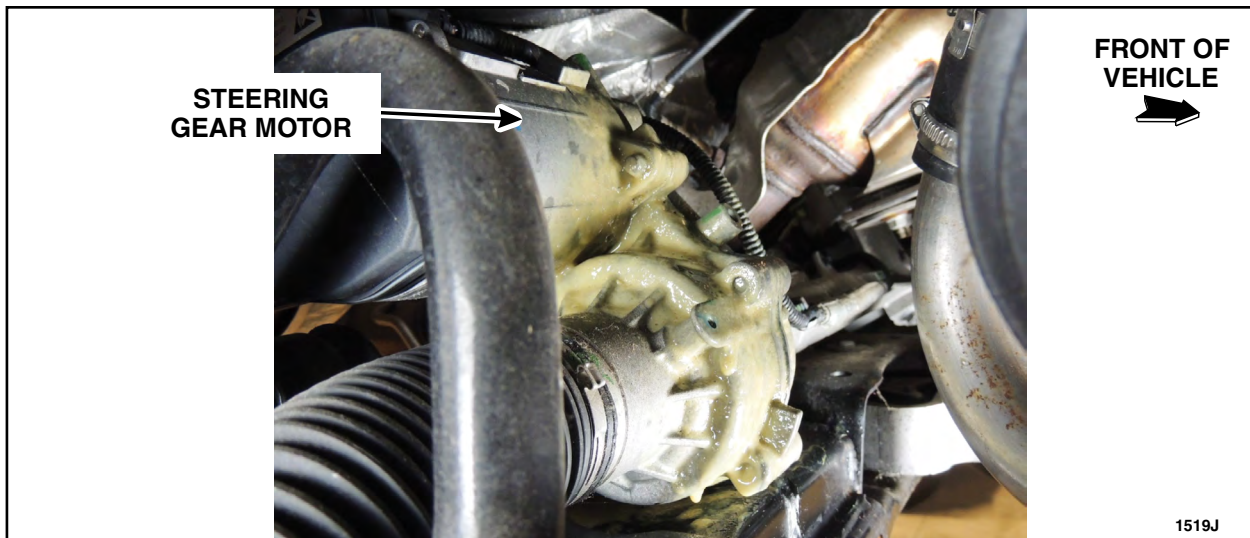


FIGURE 17



3. Working from the rear of the subframe, insert nozzle between the steering gear and subframe underneath housing seam. Apply sealant to gear motor bolt three, steering gear to housing seam and housing bolts four and eight heads, threads and thread holes. See Figures 18 and 19.

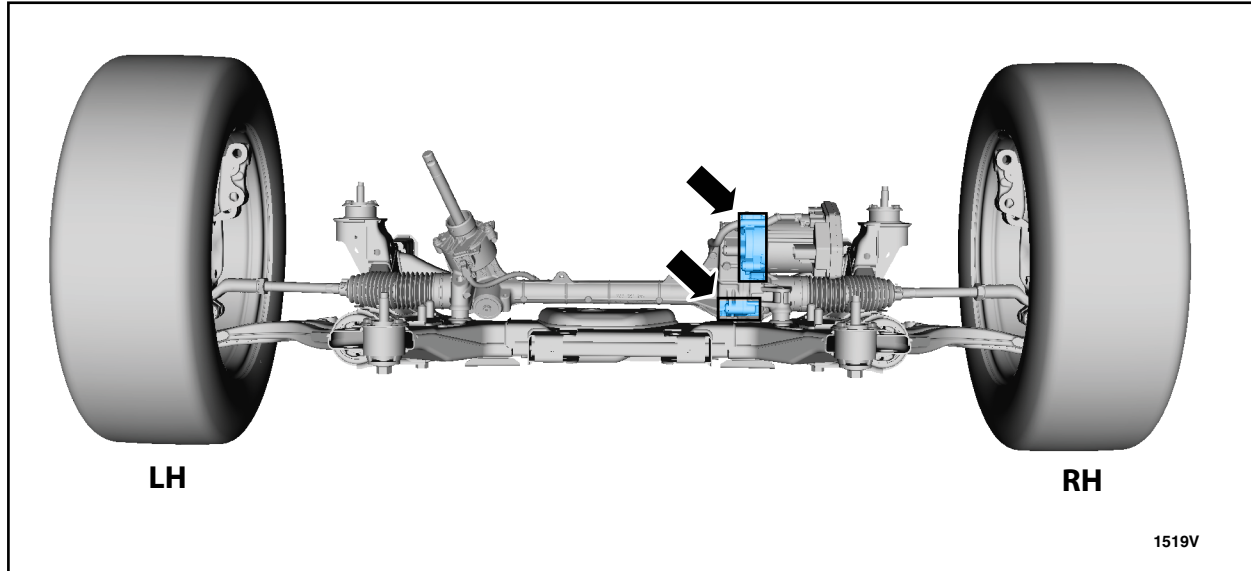


FIGURE 18

SPRAY SEALANT INTO OR ON:

- BENEATH WIRE GEAR MOTOR HARNESS
- BOLT HEADS
- TOP OF GEAR MOTOR TO HOUSING SEAM

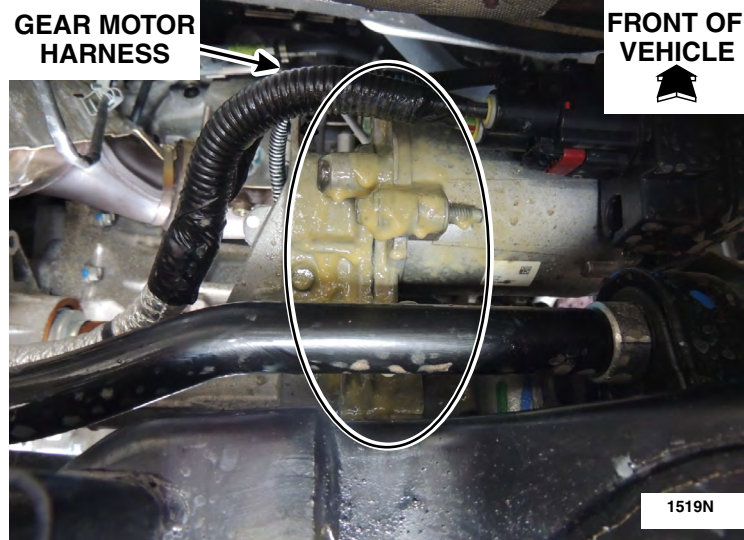


FIGURE 19



NOTE: Be sure the sealant coats the top of the gear motor seam and the bolt thread holes.

4. Working from the front of the subframe, insert nozzle between steering gear and subframe housing seam. Apply sealant to gear motor bolts one and two, steering gear to housing seam, housing bolts five, six and seven heads, threads and thread holes. See Figures 20 and 21.

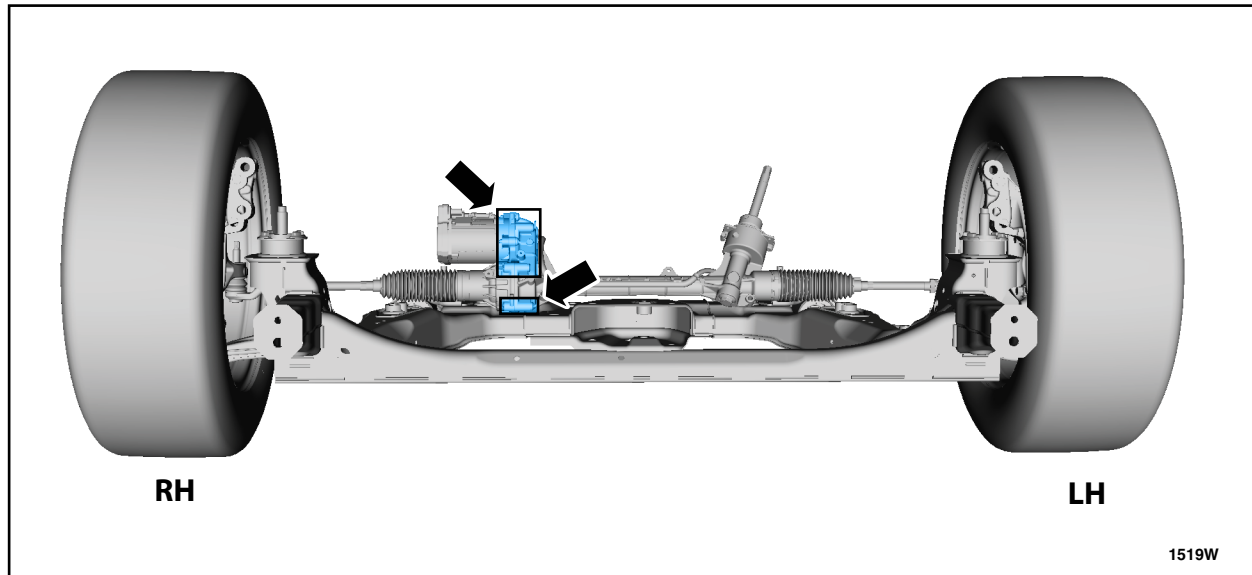
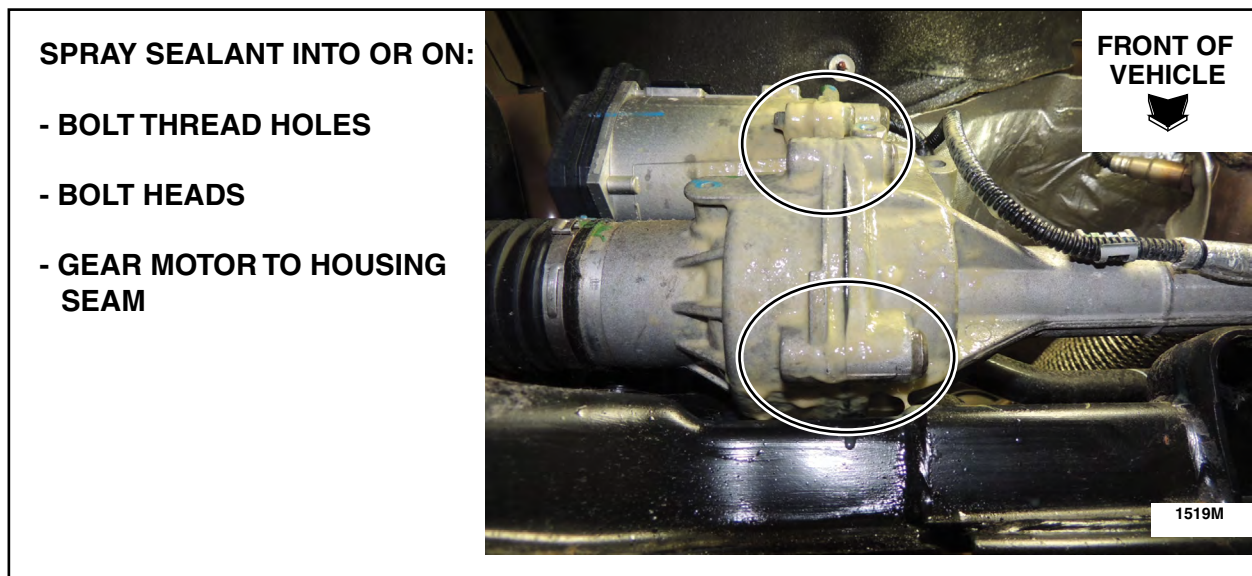


FIGURE 20



SPRAY SEALANT INTO OR ON:

- BOLT THREAD HOLES
- BOLT HEADS
- GEAR MOTOR TO HOUSING SEAM

FIGURE 21

5. Install the RH front wheel. Please follow the WSM procedures in Section 204-04A.



MKZ Vehicles Equipped With 3.7L

1. *With the help of an assistant using a pry bar between the subframe and roll restrictor bracket, position the engine forward to provide clearance. Install the steering gear motor heat shield. See Figure 7.*

- *Tighten to 8 Nm (71 lb-in).*

2. *Install the RH roll restrictor bolt. See Figure 6.*

- Clean the bolt threads using a suitable wire brush.*
- Apply Motorcraft Threadlock 262/TA-26 to restrictor bolt.*

- *Tighten to 115 Nm (85 Lb-ft).*

3. *Install the exhaust y-pipe. Please follow the WSM procedures in Section 309-00B.*

Install Underbody Shields - Edge Vehicles

1. If equipped, install the steering gear motor heat shield. See Figure 5.

- Tighten to 8 Nm (71 lb-in).

2. If equipped, install the center underbody shield. See Figure 4.

3. Install the underbody shield. See Figure 3.

Install Underbody Shields - Fusion and MKZ Vehicles

1. Install the underbody crossbrace and the six nuts. See Figure 2.

- Tighten to 45 Nm (33 lb-ft).

2. Install both underbody shields. See Figure 1.

- Tighten to 9 Nm (80 lb-in).

3. Install the engine front undershield and the engine undershield. Please follow the WSM procedures in Section 501-02.

