

SECTION 205-04: Front Drive Halfshafts  
SPECIFICATIONS

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Material

| Item                   | Specification | Fill Capacity |
|------------------------|---------------|---------------|
| PTFE Lubricant<br>XG-8 | ESB-M1C111-B  | -             |

**Torque Specifications**

| Description                              | Nm | lb-ft | lb-in |
|------------------------------------------|----|-------|-------|
| Brake flexible hose bracket bolt         | 11 | -     | 97    |
| Intermediate shaft bearing retainer nuts | 25 | 19    | -     |
| Lower ball joint nut                     | 83 | 61    | -     |
| Wheel hub nut <sup>1</sup>               | -  | -     | -     |

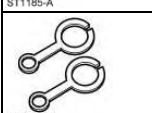
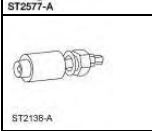
<sup>1</sup> Refer to the procedure in this section.

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SECTION 205-04: Front Drive Halfshafts  
REMOVAL AND INSTALLATION

Halfshaft - LH

Special Tool(s)

|                                                                                                |                                                     |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <br>ST1582-A  | Remover, Halfshaft<br>205-241 (T86P-3514-A)         |
| <br>ST2038-A  | Remover, Halfshaft (Plate)<br>205-290 (T89P-3415-B) |
| <br>ST1165-A  | Slide Hammer<br>100-001 (T50T-100-A)                |
| <br>ST2577-A  | Protector, Differential Oil Seal (Pair)<br>205-461  |
| <br>ST2136-A | Installer, Halfshaft<br>204-161 (T97P-1175-A)       |

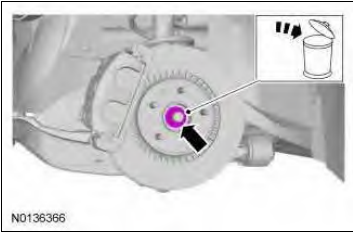
General Equipment

|                   |
|-------------------|
| Wheel Hub Remover |
|-------------------|

Removal

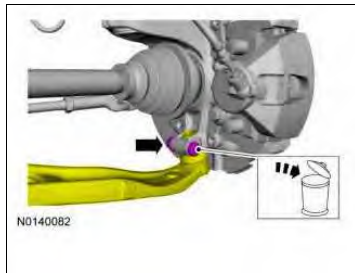
**NOTICE:** Do not drop halfshafts. When halfshaft are out vehicle, support the halfshafts with blocks on nonfunctional portion of the shafts. Do not damage polished area of the halfshafts. Do not tear rip or tear the halfshaft boots. Do not allow the angle of the halfshaft to exceed 40 degrees. Do not support the weight of outer wheel end assembly to be supported by the halfshaft.

1. Remove the Left Hand (LH) wheel and tire. Refer to [Section 204-04A](#) .
2. Discard the specified component. Follow local disposal regulations.

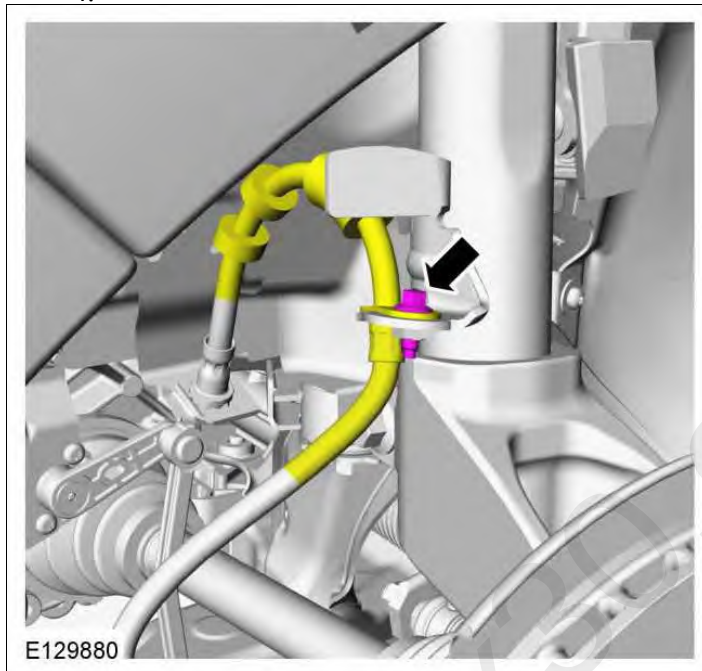


3. **NOTICE:** Do not use a prying device or separator fork between the ball joint and the wheel knuckle. Damage to the ball joint or ball joint boot may result. Only use the pry bar by inserting it into the lower arm body opening.
- NOTICE:** Use care when releasing the lower arm and wheel knuckle into the resting position or damage to the ball joint seal and/or Constant Velocity (CV) joint boot may occur.

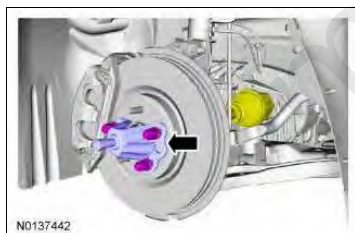
Discard the specified component. Follow local disposal regulations.



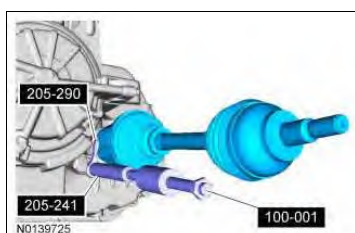
4.



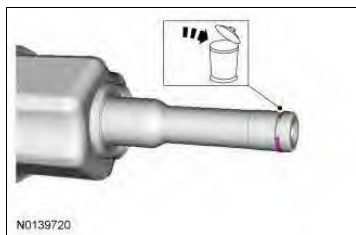
5. General Equipment: Wheel Hub Remover.



6. Special Tool(s): Halfshaft Remover (plate) 205-290, Halfshaft Remover 205-241, Slide Hammer 100-001.

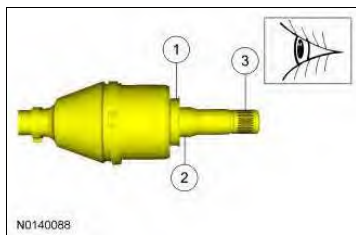


7. Discard the specified component. Follow local disposal regulations.

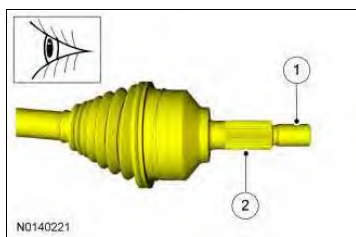


## Installation

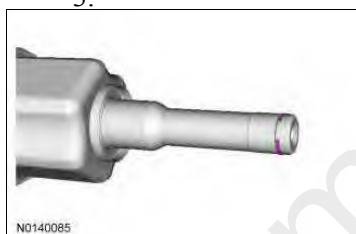
### 1. Visual check



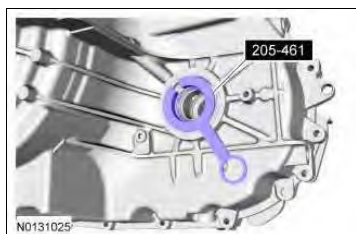
### 2. Visual check



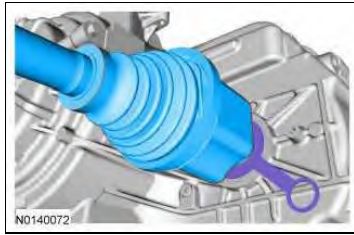
### 3.



### 4. Special Tool(s): Differential Oil Seal Protector (pair) 205-461.



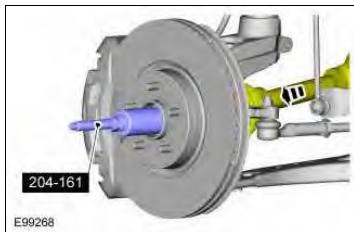
### 5. **NOTE:** Remove the seal protector before completely installing the halfshaft.



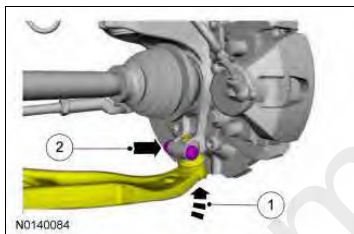
6. **NOTE:** When seated correctly, the halfshaft bearing retainer circlip can be felt as it snaps into the differential side gear groove.



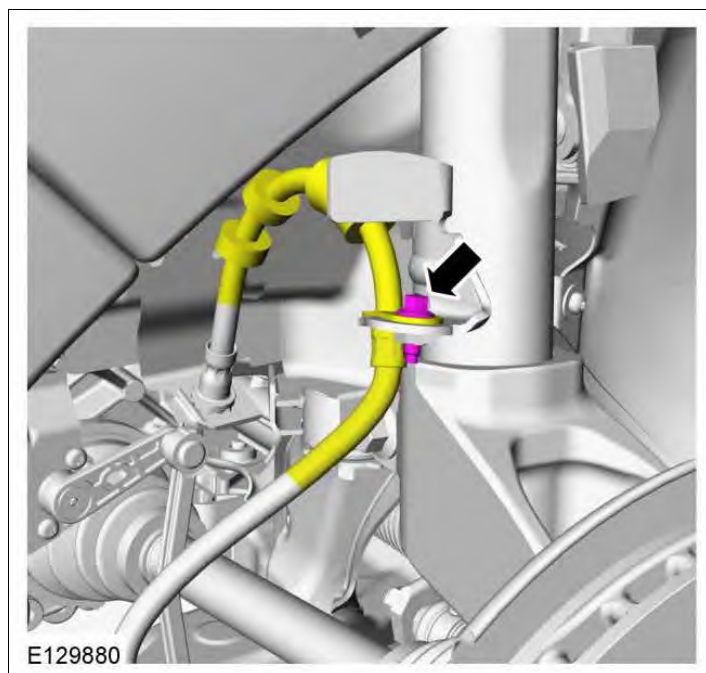
7. Special Tool(s): Halfshaft Installer 204-161.



8. • Tighten to 83 Nm (61 lb-ft).



9. • Tighten to 11 Nm (97 lb-in).

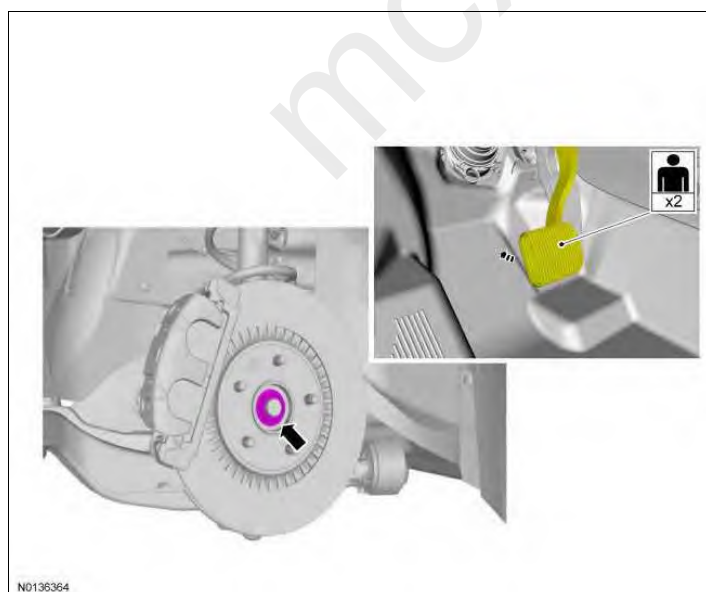


10. **NOTICE:** Do not tighten the front wheel hub nut with the vehicle on the ground. The nut must be tightened to specification before the vehicle is lowered onto the wheels. Wheel bearing damage will occur if the wheel bearing is loaded with the weight of the vehicle applied.

**NOTICE:** Install and tighten the new wheel hub nut to specification in a continuous rotation. Always install a new wheel hub nut after loosening or when not tightened to specification in a continuous rotation or damage to the components may occur.

This procedure step requires the specified number of technicians. Tighten the nut in two stages.

- Stage 1: Tighten to 80 Nm (59 lb-ft).
- Stage 2: Tighten an additional 90 degrees.



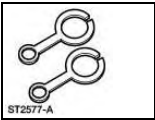
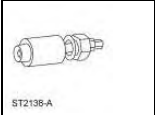
11. Install the front tires and wheels. Refer to [Section 204-04A](#) .

12. Check and fill the transaxle fluid as necessary. Refer to [Section 307-01](#) .

SECTION 205-04: Front Drive Halfshafts  
REMOVAL AND INSTALLATION

Halfshaft - RH

Special Tool(s)

|                                                                                   |                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------|
|  | Protector, Differential Oil Seal (Pair)<br>205-461 |
|  | Installer, Halfshaft<br>204-161 (T97P-1175-A)      |

General Equipment

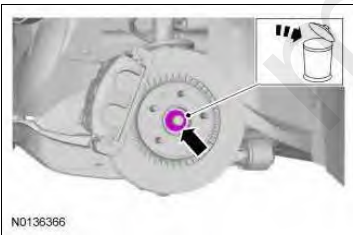
|                   |
|-------------------|
| Wheel Hub Remover |
|-------------------|

Removal

**NOTICE:** The intermediate shaft seal in the Power Transfer Unit (PTU) must be replaced whenever the intermediate shaft is removed. Refer to [Section 308-07B](#) .

**NOTICE:** Do not drop halfshafts. When halfshaft are out vehicle, support the halfshafts with blocks on nonfunctional portion of the shafts. Do not damage polished area of the halfshafts. Do not tear rip or tear the halfshaft boots. Do not allow the angle of the halfshaft to exceed 40 degrees. Do not support the weight outer wheel end assembly to be supported by the halfshaft.

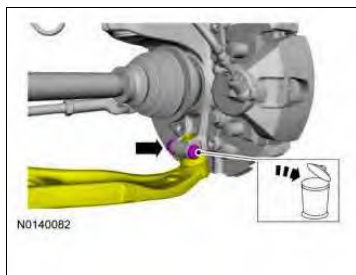
1. Remove the RH wheel and tire. Refer to [Section 204-04A](#) .
2. Discard the specified component. Follow local disposal regulations.



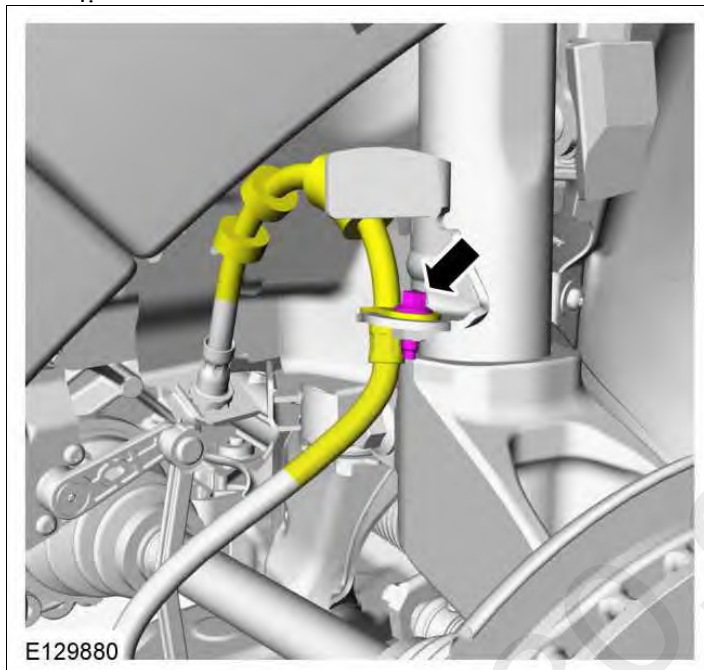
3. **NOTICE:** Do not use a prying device or separator fork between the ball joint and the wheel knuckle. Damage to the ball joint or ball joint boot may result. Only use the pry bar by inserting it into the lower arm body opening.

**NOTICE:** Use care when releasing the lower arm and wheel knuckle into the resting position or damage to the ball joint seal and/or Constant Velocity (CV) joint boot may occur.

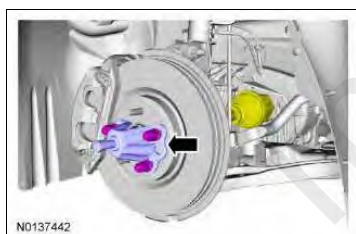
Discard the specified component. Follow local disposal regulations.



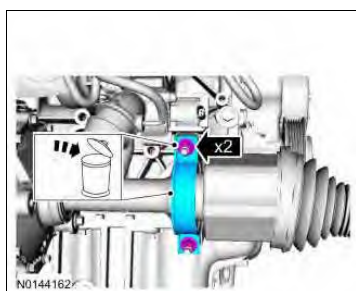
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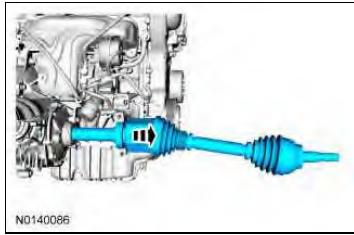
5. General Equipment: Wheel Hub Remover.



6. Discard the specified component. Follow local disposal regulations.



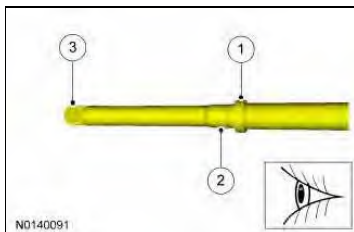
7. **NOTICE:** Use care to not dent or damage the halfshaft slinger or rip the halfshaft boot.



## Installation

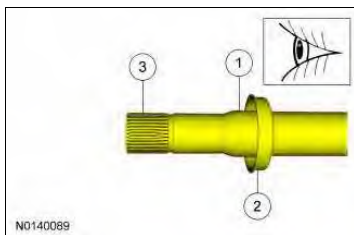
### AWD vehicles

1. Install a new intermediate shaft seal in the PTU . Refer to Section 308-07B .
2. Visual check.



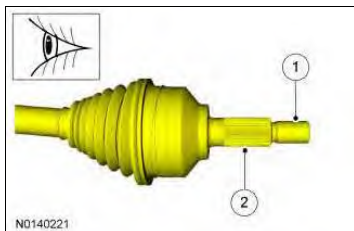
### FWD vehicles

3. Visual check.



### All vehicles

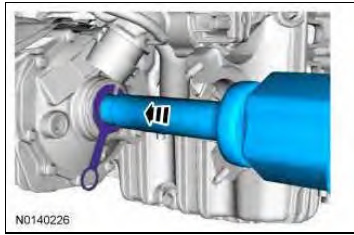
4. Visual check.



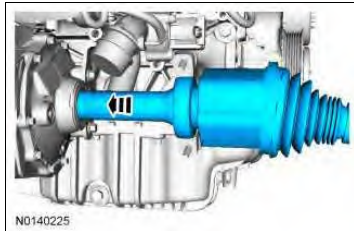
### AWD vehicles

5. **NOTE:** Use the seal protector provided with the intermediate shaft seal kit.

**NOTE:** Remove the seal protector before completely installing the halfshaft.



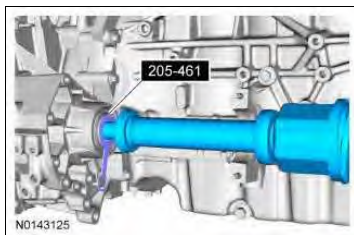
6.



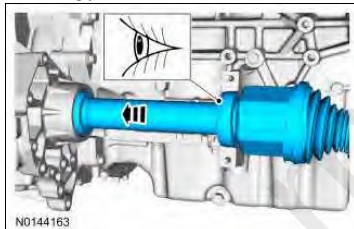
### FWD vehicles

7. **NOTE:** Remove the seal protector before completely installing the halfshaft.

Special Tool(s): Differential Oil Seal Protector (pair) 205-461.

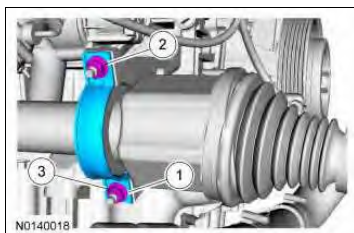


8.

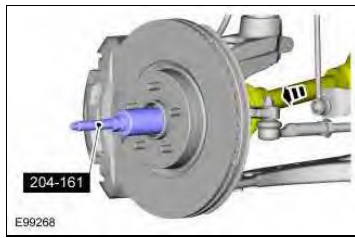


### All vehicles

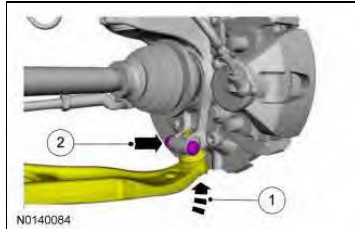
- 9.
- Stage 1: Tighten the lower nut to 5 Nm (44 In-lbs)
  - Stage 2: Tighten the upper nut to 25 Nm (18 lb-ft)
  - Stage 3: Tighten the lower nut to 25 Nm (18 lb-ft)



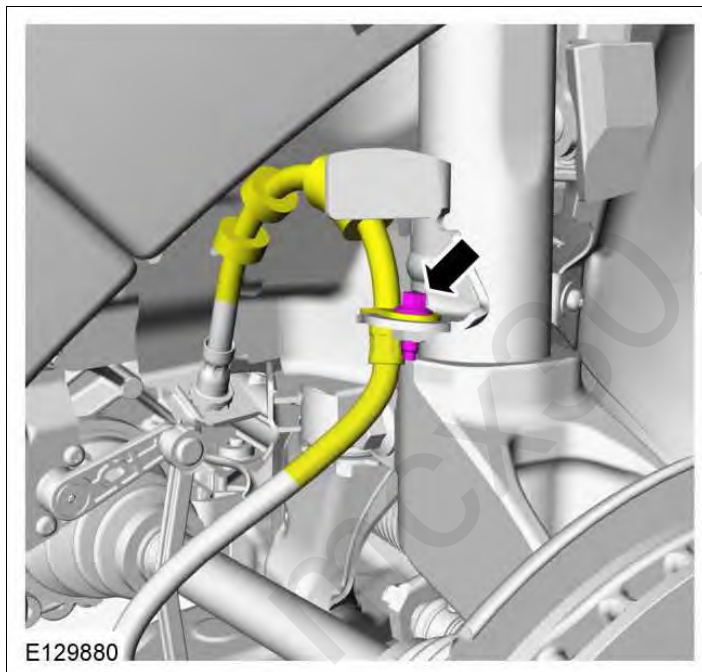
10. Special Tool(s): Halfshaft Installer 204-161.



11. • Tighten to 83 Nm (61 lb-ft).



12. • Tighten to 11 Nm (97 lb-in).

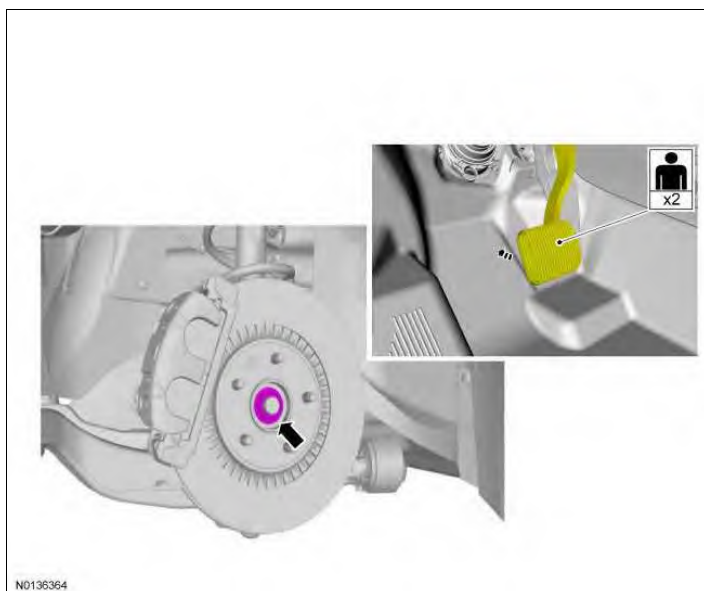


13. **NOTICE:** Do not tighten the front wheel hub nut with the vehicle on the ground. The nut must be tightened to specification before the vehicle is lowered onto the wheels. Wheel bearing damage will occur if the wheel bearing is loaded with the weight of the vehicle applied.

**NOTICE:** Install and tighten the new wheel hub nut to specification in a continuous rotation. Always install a new wheel hub nut after loosening or when not tightened to specification in a continuous rotation or damage to the components may occur.

This procedure step requires the specified number of technicians. Tighten the nut in two stages.

- Stage 1: Tighten to 80 Nm (59 lb-ft).
- Stage 2: Tighten an additional 90 degrees.



14. Install the front RH tire and wheels Refer to [Section 204-04A](#) .

15. Check and fill the transaxle fluid as necessary. Refer to [Section 307-01](#) .

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