

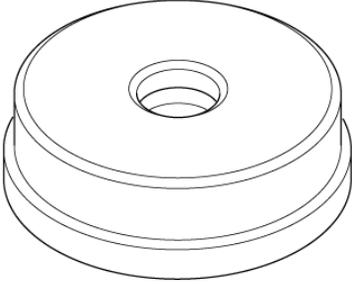
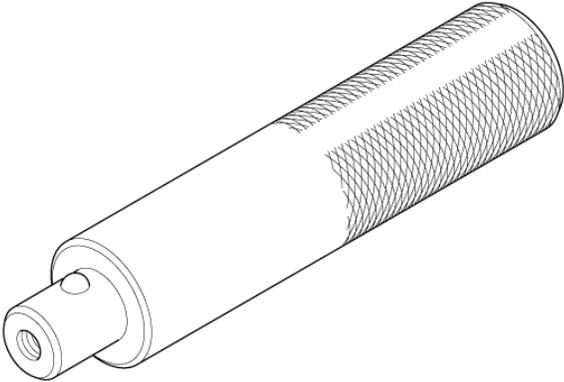
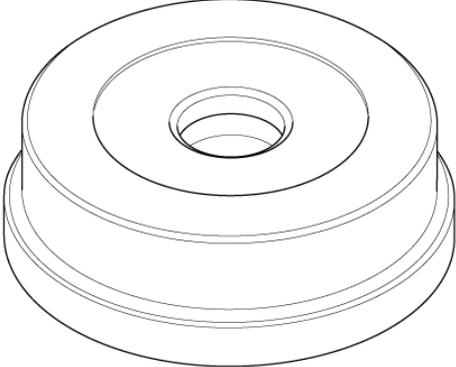
TRANSMISSION

Continuously Variable Transmission (CVT) - Service Information - HR-V

REMOVAL & INSTALLATION

CVT DIFFERENTIAL CARRIER BEARING OUTER RACE REPLACEMENT (CVT)

Special Tools Required

Image	Description/Tool Number
	Bearing Driver Attachment, 62 x 68 mm 07746-0010500
	Driver Handle, 15 x 135L 07749-0010000
	Bearing Driver Attachment, 62 x 64 mm 07947-6340400

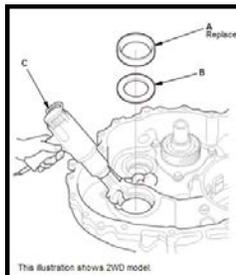
Replacement

NOTE:

- The carrier bearing and the carrier bearing outer race should be replaced as a set.
- **Adjust the carrier bearing preload** after replacing the carrier bearing and the carrier bearing outer race.
- Apply a light coat of clean transmission fluid on all parts before installation.

Transmission Housing Side

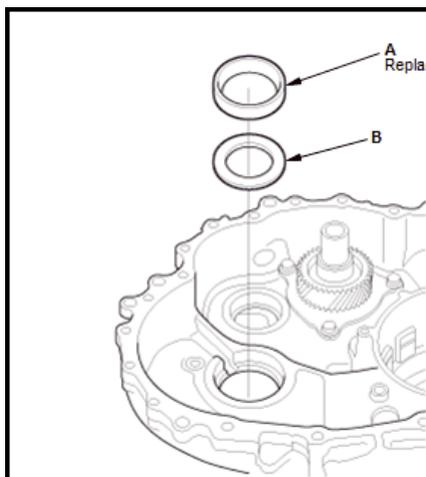
1. **Differential Oil Seal - Remove**
2. Differential Carrier Bearing Outer Race - Remove



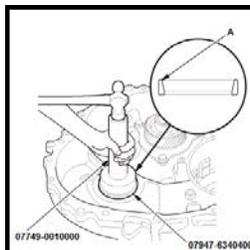
1. Remove the carrier bearing outer race (A) and the spacer (B) by heating the transmission housing to about 212 Â°F (100 Â°C) using a heat gun (C).

NOTE: Do not heat the transmission housing more than 212 Â°F (100 Â°C).

3. Differential Carrier Bearing Outer Race - Install



1. Install the carrier bearing outer race (A) and the spacer (B).

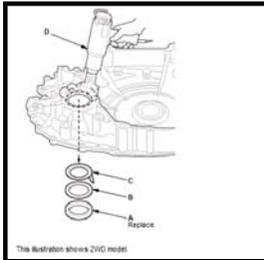


2. Drive the carrier bearing outer race (A) until it bottoms using the 15 x 135L driver handle and the 62 x 64 mm bearing driver attachment.

4. **Differential Oil Seal - Install**

Torque Converter Housing Side

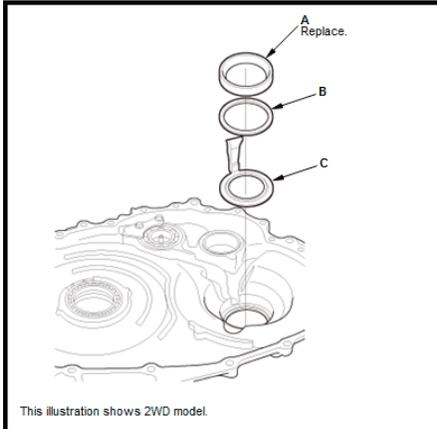
5. **Differential Oil Seal - Remove**
6. Differential Carrier Bearing Outer Race - Remove



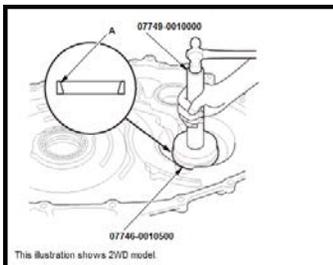
1. Remove the carrier bearing outer race (A), the 68 mm thrust shim (B), and the oil guide plate (C) by heating the torque converter housing to about 212 Â°F (100 Â°C) using a heat gun (D).

NOTE: Do not heat the torque converter housing more than 212 Â°F (100 Â°C).

7. Differential Carrier Bearing Outer Race - Install



1. Install the carrier bearing outer race (A), the 68 mm thrust shim (B), and the oil guide plate (C).



2. Drive the carrier bearing outer race (A) until it bottoms using the 15 x 135L driver handle and the 62 x 68 mm bearing driver attachment.

8. Differential Oil Seal - Install

CVT DIFFERENTIAL OIL SEAL REPLACEMENT (CVT)

Special Tools Required

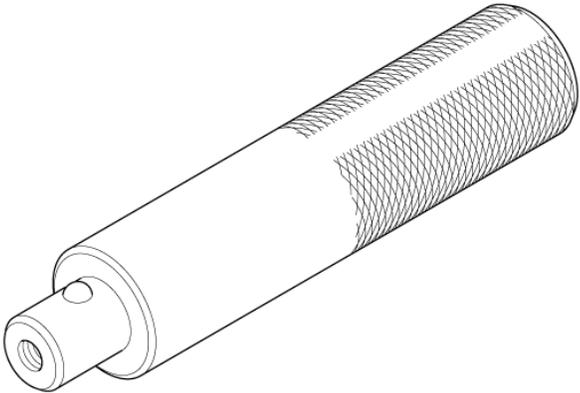
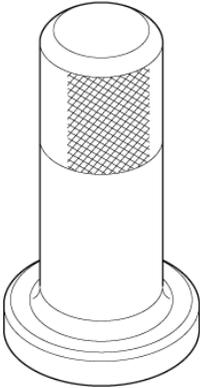
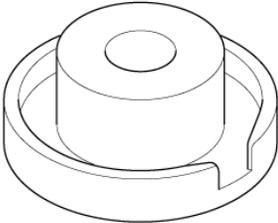
Image	Description/Tool Number
	Driver Handle, 15 x 135L 07749-0010000

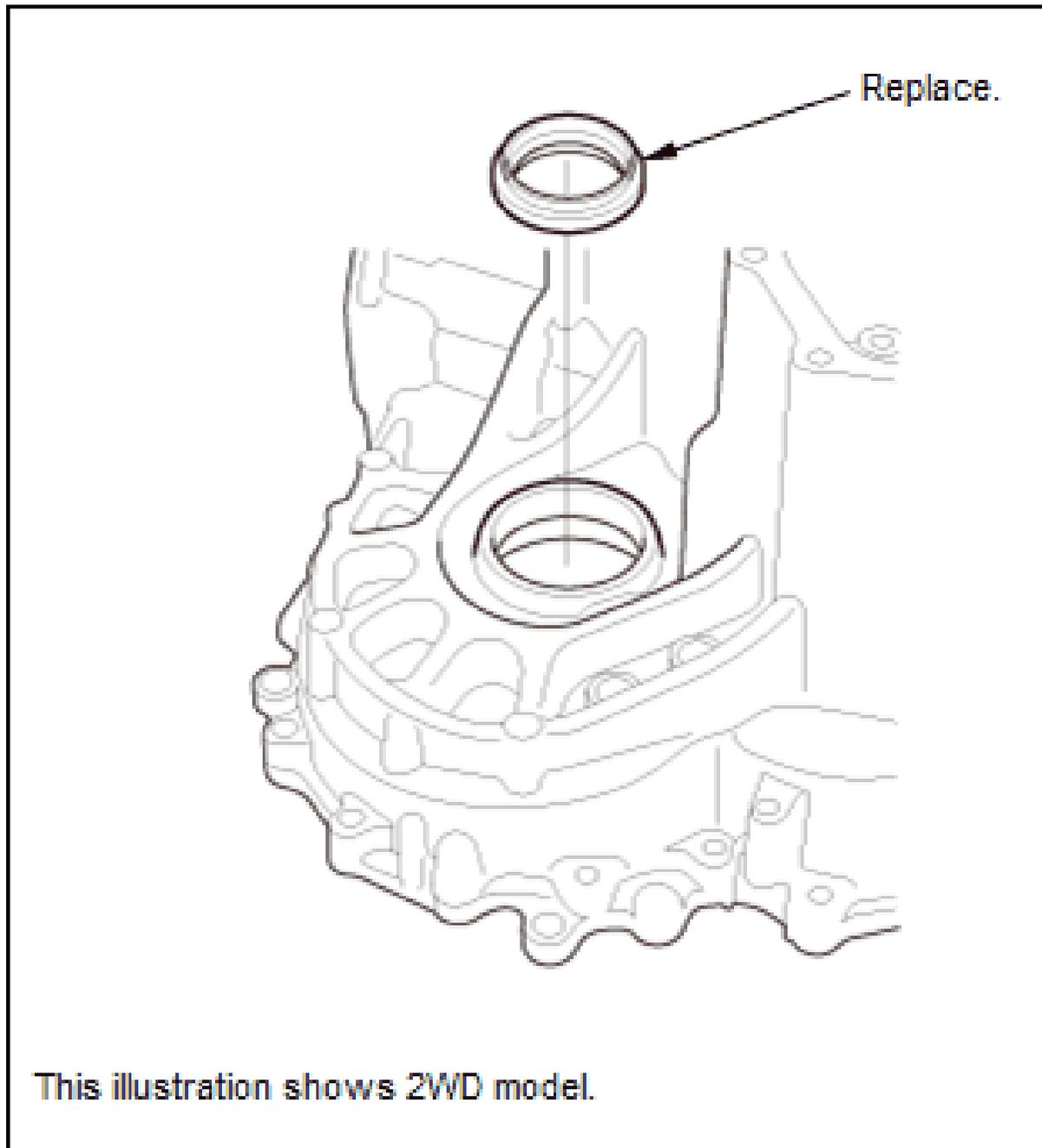
Image	Description/Tool Number
	Oil Seal Driver, 65 mm 07JAD-PL90100
	Oil Seal Driver Attachment, 58 mm 07JAD-PH80101

Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

Transmission Housing Side

1. Differential Oil Seal - Remove

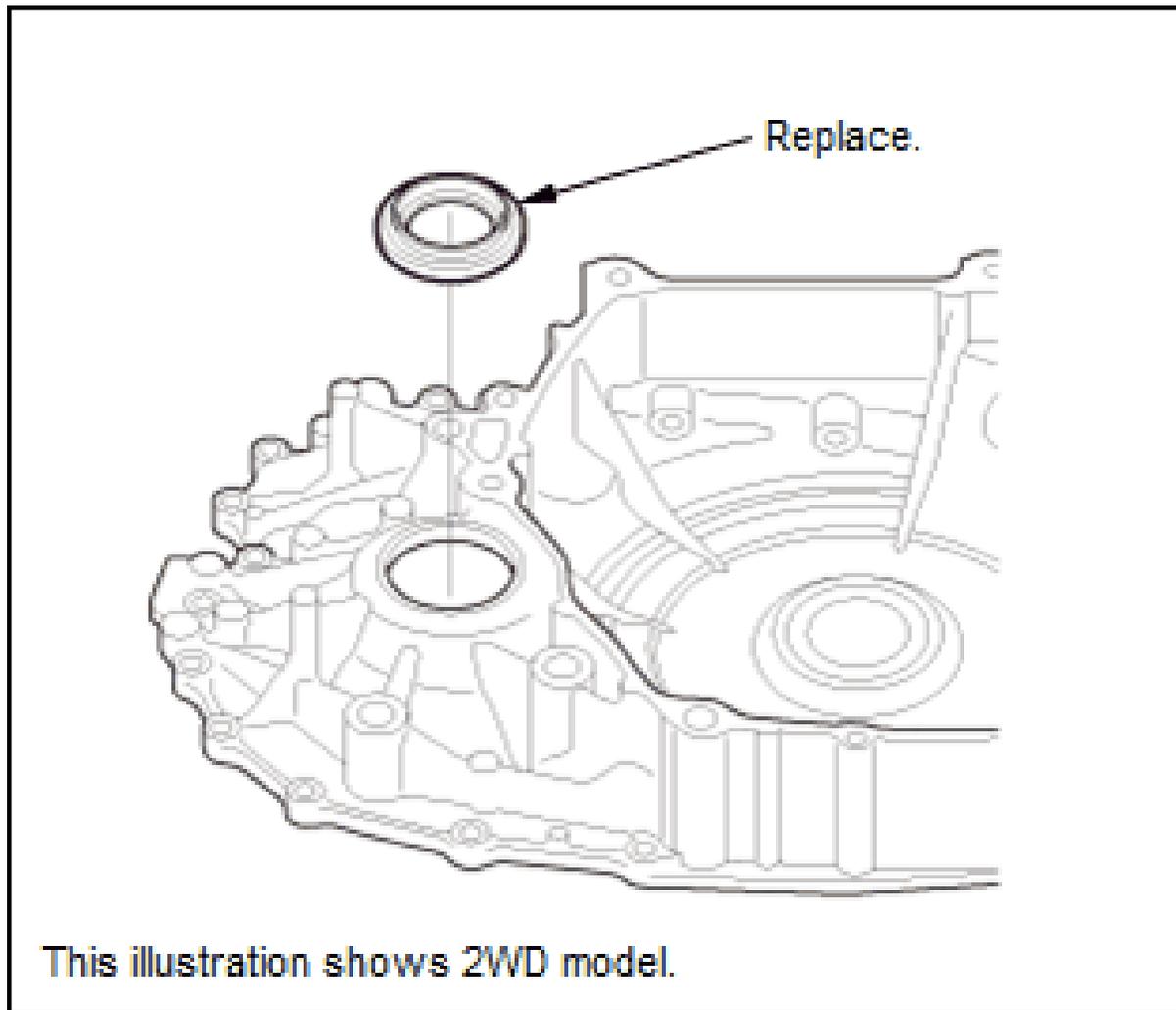


2. Differential Oil Seal - Install

<p>07149-001000</p> <p>07JAD-PH80101</p> <p>This illustration shows 2WD model.</p>	<p>1. Install the differential oil seal (A) flush with the transmission housing using the 15 x 135L driver handle and the 58 mm oil seal driver attachment.</p>
------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

Torque Converter Housing Side

3. Differential Oil Seal - Remove



4. Differential Oil Seal - Install

<p>A Replace.</p> <p>07JAD-PL90100</p> <p>This illustration shows 2WD model.</p>	<p>1. Install the differential oil seal (A) flush with the torque converter housing using the 65 mm oil seal driver.</p>
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CVT DRIVE PULLEY SPEED SENSOR REMOVAL AND INSTALLATION (CVT)

Removal and Installation

NOTE: Keep all foreign particles out of the transmission.

1. **Vehicle - Lift**
2. **Engine Undercover - Remove** (With 2WD)
3. CVT Drive Pulley Speed Sensor - Remove

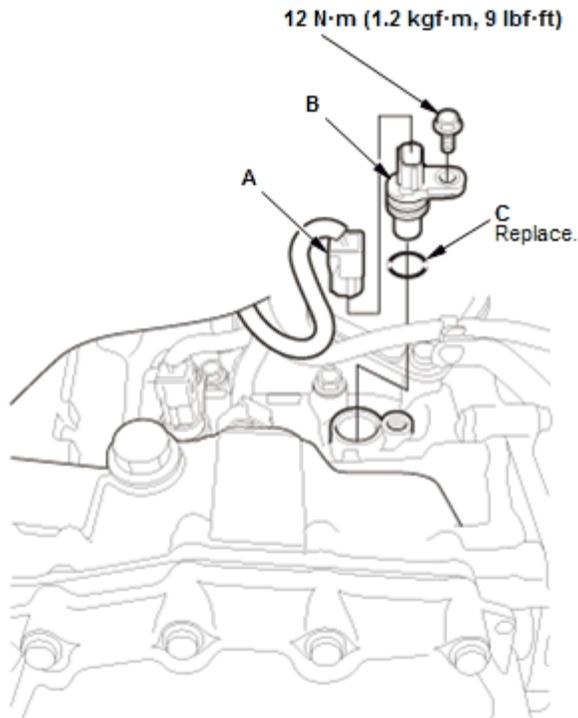


Fig. 1: CVT Drive Pulley Speed Sensor With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|-------|------------------------------------------------------------------------------------|
| 1. | Disconnect the connector (A). |
| NOTE: | Check the connector for corrosion, dirt, or oil, and clean or repair if necessary. |
| 2. | Remove the CVT drive pulley speed sensor (B) with the O-ring (C). |

4. All Removed Parts - Install

- | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Install the parts in the reverse order of removal. |
| NOTE: | |
| • | When installing the CVT drive pulley speed sensor, be sure to use a new O-ring which should be applied a light coat of clean transmission fluid before installation. |
| • | If necessary, add transmission fluid to the proper level . |

CVT DRIVEN PULLEY PRESSURE SENSOR REMOVAL AND INSTALLATION (CVT)

Removal and Installation

NOTE: Keep all foreign particles out of the transmission.

1. **Vehicle - Lift**
2. **Engine Undercover - Remove** (With 2WD)
3. **Left Front Splash Shield - Remove**
4. CVT Driven Pulley Pressure Sensor - Remove

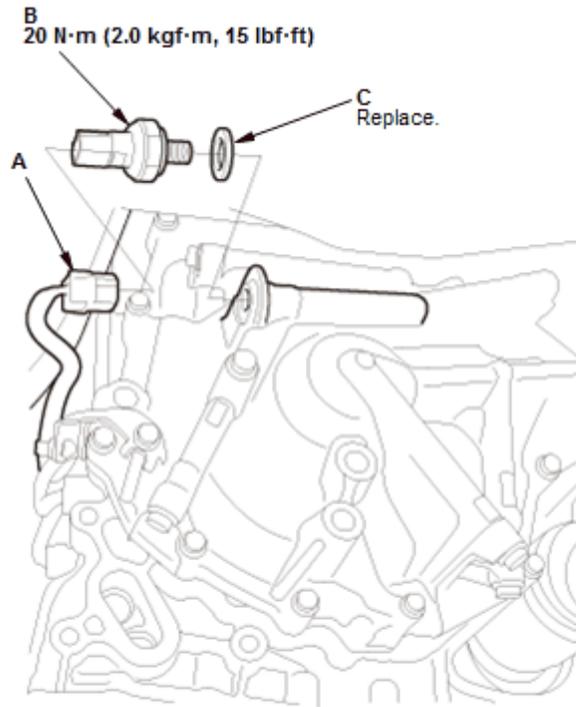


Fig. 2: CVT Driven Pulley Pressure Sensor With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | <ol style="list-style-type: none"> 1. Disconnect the connector (A). <p>NOTE: Check the connector for corrosion, dirt, or oil, and clean or repair if necessary.</p> <ol style="list-style-type: none"> 2. Remove the CVT driven pulley pressure sensor (B) with the sealing washer (C). <p>NOTE: Be careful not to damage the plastic part.</p> |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5. All Removed Parts - Install

- | | |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | <ol style="list-style-type: none"> 1. Install the parts in the reverse order of removal. <p>NOTE:</p> <ul style="list-style-type: none"> • Be sure to use a new sealing washer when installing the CVT driven pulley pressure sensor. • If necessary, add transmission fluid to the proper level . |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CVT SPEED SENSOR REMOVAL AND INSTALLATION (CVT)

Removal and Installation

NOTE: Keep all foreign particles out of the transmission.

1. **Front Grille Cover - Remove**
2. **Air Cleaner - Remove**

3. CVT Speed Sensor - Remove

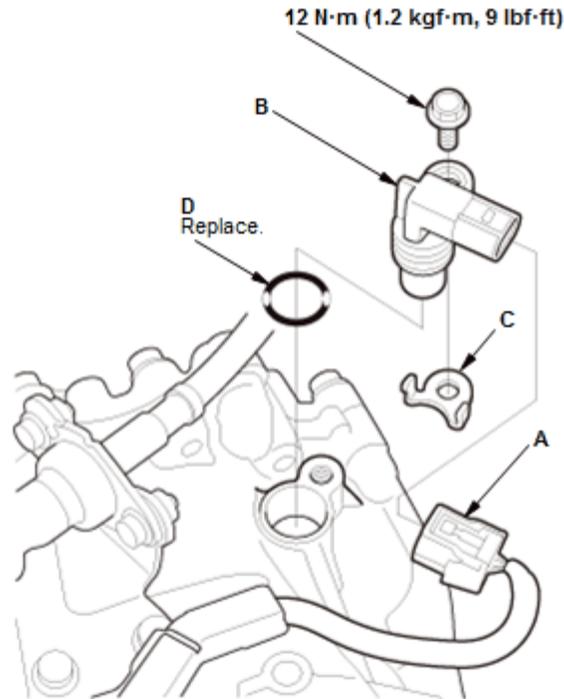


Fig. 3: CVT Speed Sensor With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|---|-------------------------------------------------------------------------------------------------|
| Â | 1. Disconnect the connector (A). |
| | NOTE: Check the connector for corrosion, dirt, or oil, and clean or repair if necessary. |
| | 2. Remove the CVT speed sensor (B) with the sensor washer (C) and the O-ring (D). |

4. All Removed Parts - Install

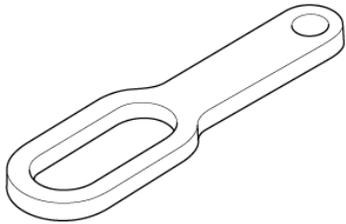
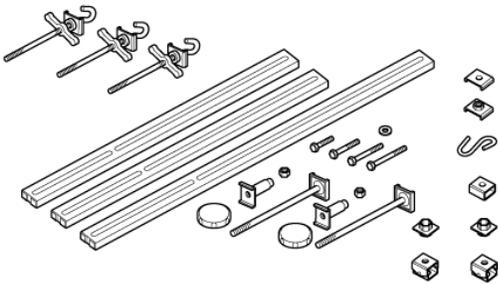
- | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Â | 1. Install the parts in the reverse order of removal. |
| | NOTE: When installing the CVT speed sensor, be sure to use a new O-ring which should be applied a light coat of clean transmission fluid before installation. |

CVT TRANSMISSION REMOVAL AND INSTALLATION (CVT)

*: Available through the Honda Tool and Equipment Program 888-424-6857.

Special Tools Required

Image	Description/Tool Number
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Image	Description/Tool Number
	<p>Universal Lifting Eyelet 07AAK-SNAA120</p>
	<p>Engine Support Hanger, A and Reds AAR-T1256*</p>

*: Available through the Honda Tool and Equipment Program 888-424-6857.

Exploded View

1. Transmission Assembly Mounting Bolt - Exploded View

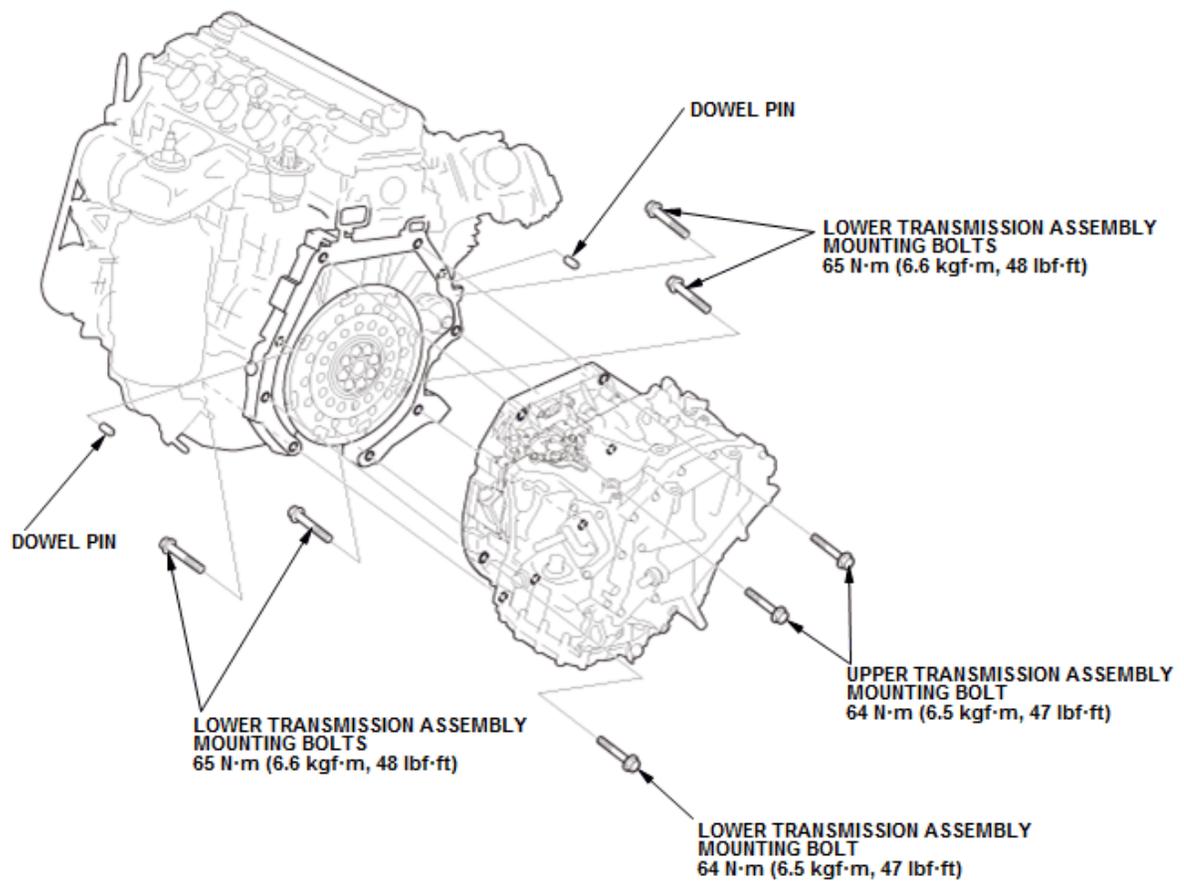
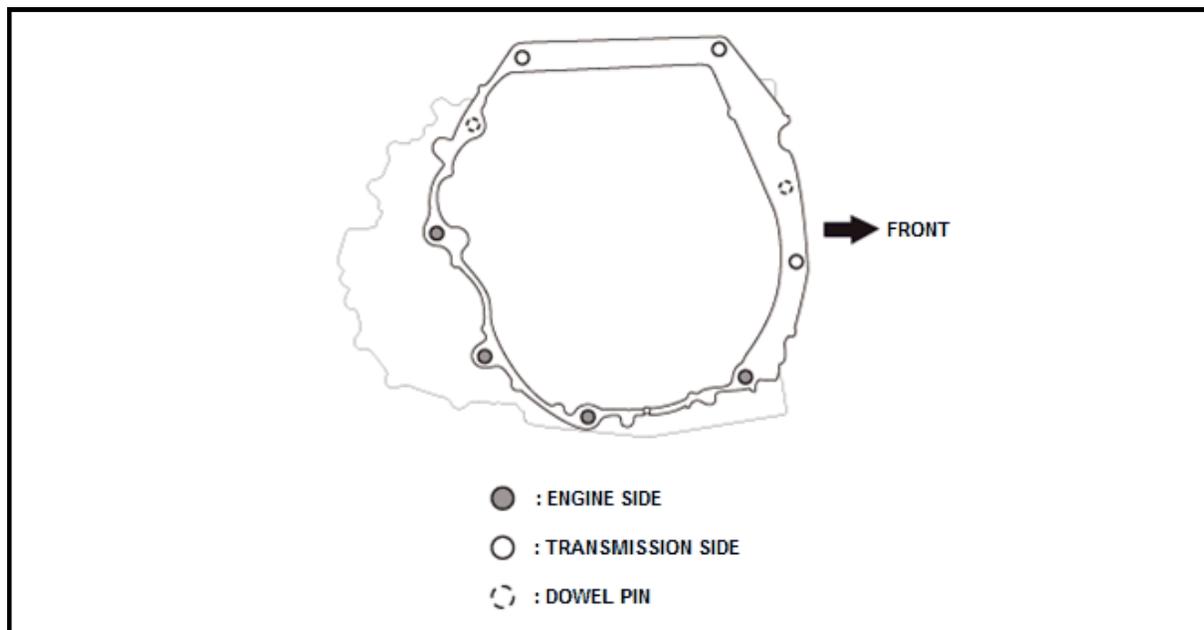


Fig. 4: Exploded View Of Transmission Assembly Mounting Bolt With Torque Specifications
 Courtesy of HONDA, U.S.A., INC.



Removal

NOTE:

- Use fender covers to avoid damaging painted surfaces.
- Keep all foreign particles out of the transmission.
- Special tool Reds engine support hanger AAR-T1256 must be used with the side engine mount installed.

1. Vehicle - Lift Set

1. **Set the vehicle on a lift.**

2. **Engine Undercover - Remove** (With 2WD)

3. **Left Front Splash Shield - Remove**

4. Engine - Warm Up

1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice)
2. Turn the engine off.

5. Transmission Fluid - Drain

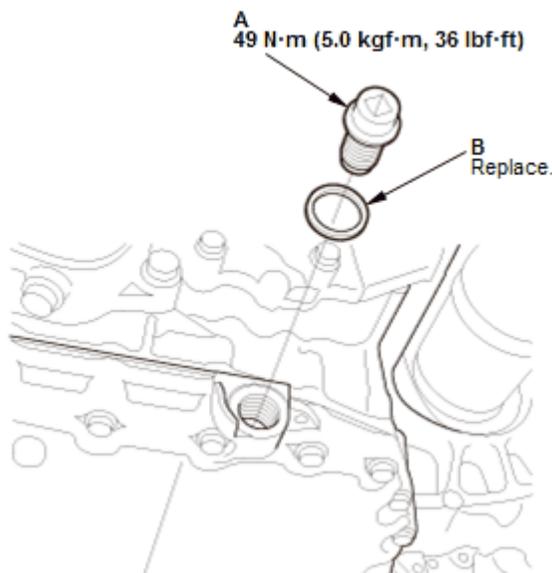


Fig. 5: Transmission Fluid Drain Plug With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes.

NOTE:

- Remove metal particles from the magnetic surface of the drain plug.
- Be careful not to burn yourself by the hot part.

2. Reinstall the drain plug with a new sealing washer.

6. Vehicle - Lift Down

7. Steering Joint - Disconnect

NOTE: Hold the steering wheel with the steering wheel holder tool.

8. Front Wiper Arm - Remove

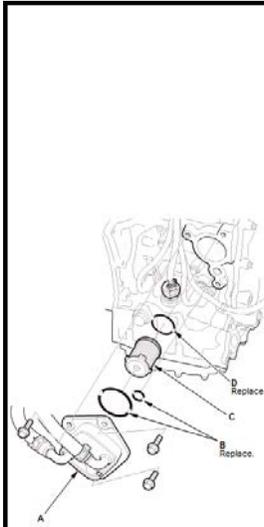
9. Cowl Cover - Remove

10. Front Grille Cover - Remove

11. Air Cleaner - Remove

12. 12 Volt Battery - Remove

13. Transmission Fluid Warmer - Remove



1. Remove the transmission fluid warmer (A) with the O-rings (B).

NOTE: The transmission fluid warmer is aluminum part. Be careful not to damage the transmission fluid warmer.

2. Put plastic bag over the transmission fluid warmer, then swing it out of the way.

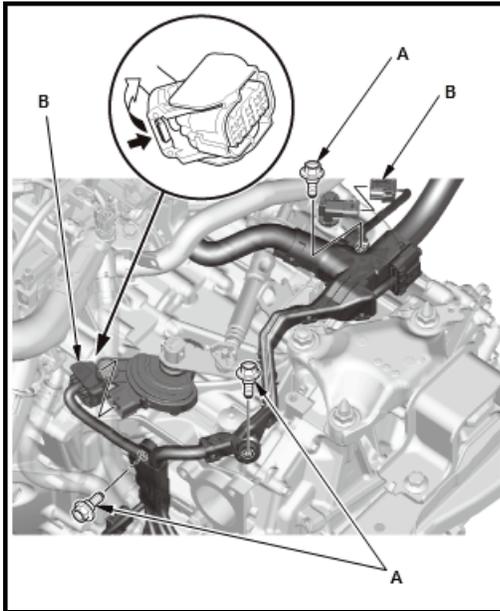
3. Remove the transmission fluid warmer strainer (C) with the O-ring (D).

4. Clean the transmission fluid warmer strainer if necessary. Replace the transmission fluid warmer strainer, if it is clogged or damaged.

NOTE:

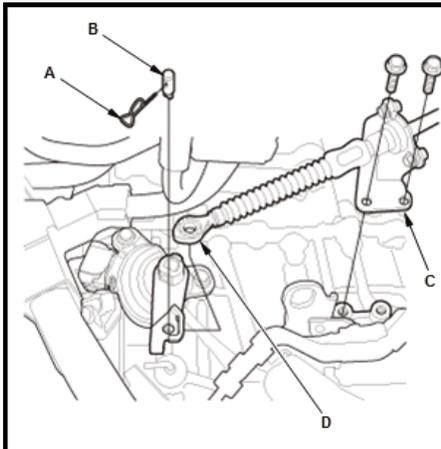
- Do not use compressed air to clean the transmission fluid warmer strainer.
- Soak the transmission fluid warmer strainer thoroughly in transmission fluid.

14. Engine Wire Harness - Remove (Transmission Upper Side).



1. Remove the bolts (A)
2. Disconnect these connectors (B).

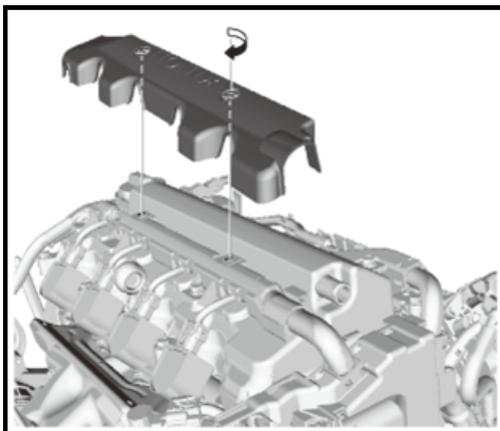
15. Shift Cable (Transmission Side) - Remove



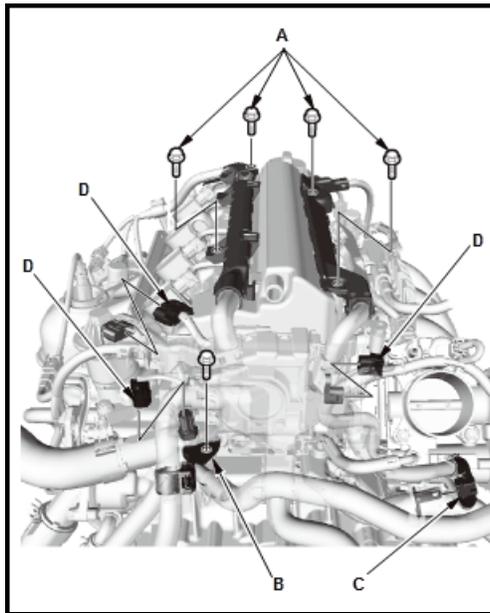
1. Remove the lock pin (A) and the control pin (B)
2. Remove the shift cable bracket (C) and the shift cable end (D).

NOTE: Do not bend the shift cable excessively.

16. Engine Wire Harness - Remove (Engine Side)

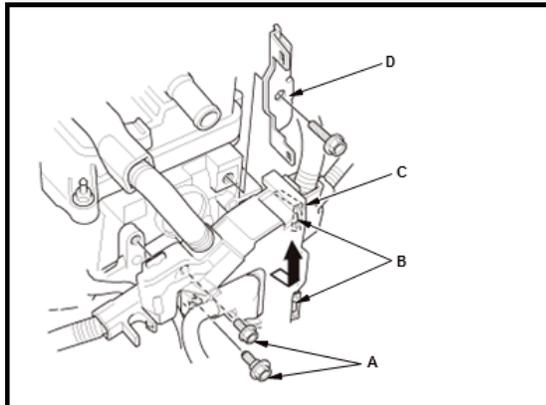


1. Remove the engine cover.

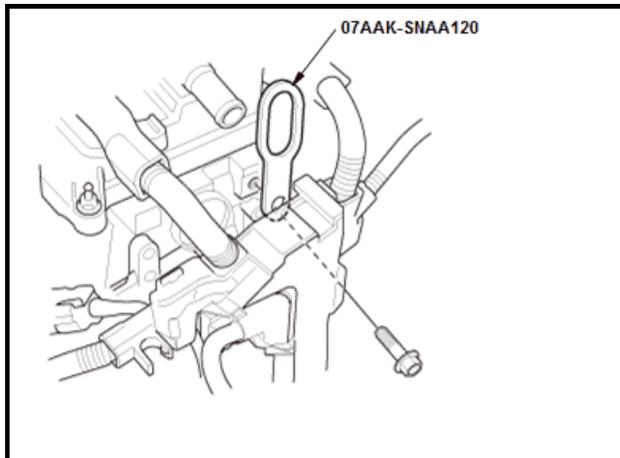


2. Remove the harness cover bolts (A).
3. Remove the harness bracket (B).
4. Remove the harness holder (C).
5. Disconnect these connectors (D).

17. Universal Lifting Eyelet - Install

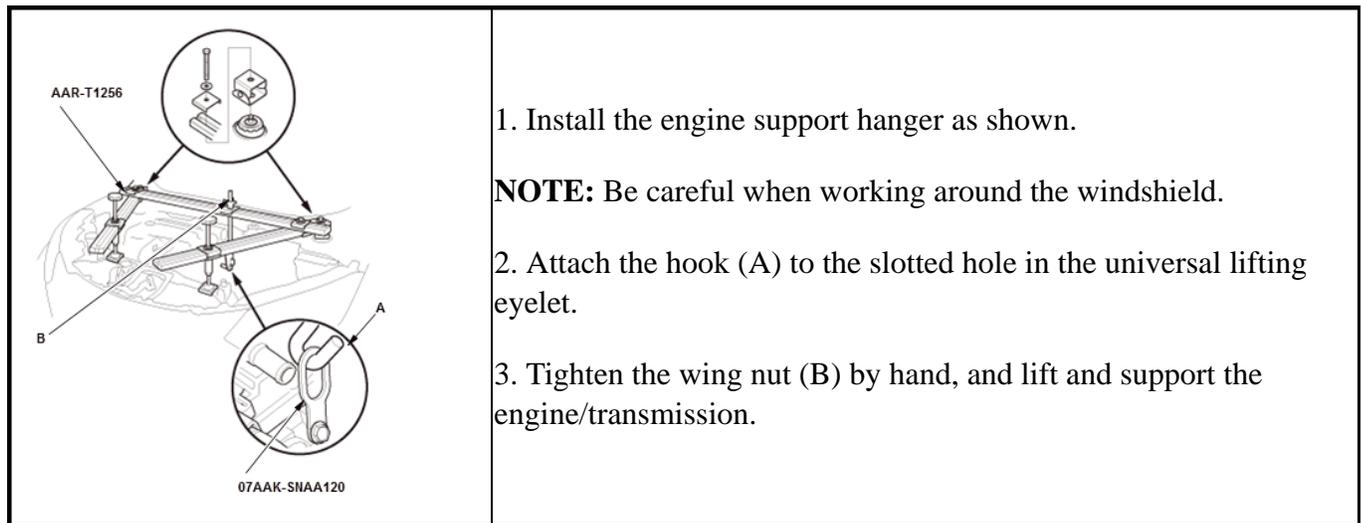


1. Remove the bolts (A), clamps (B) and move the harness holder (C).
2. Remove the bracket (D).



3. Attach the universal lifting eyelet to the cylinder head.

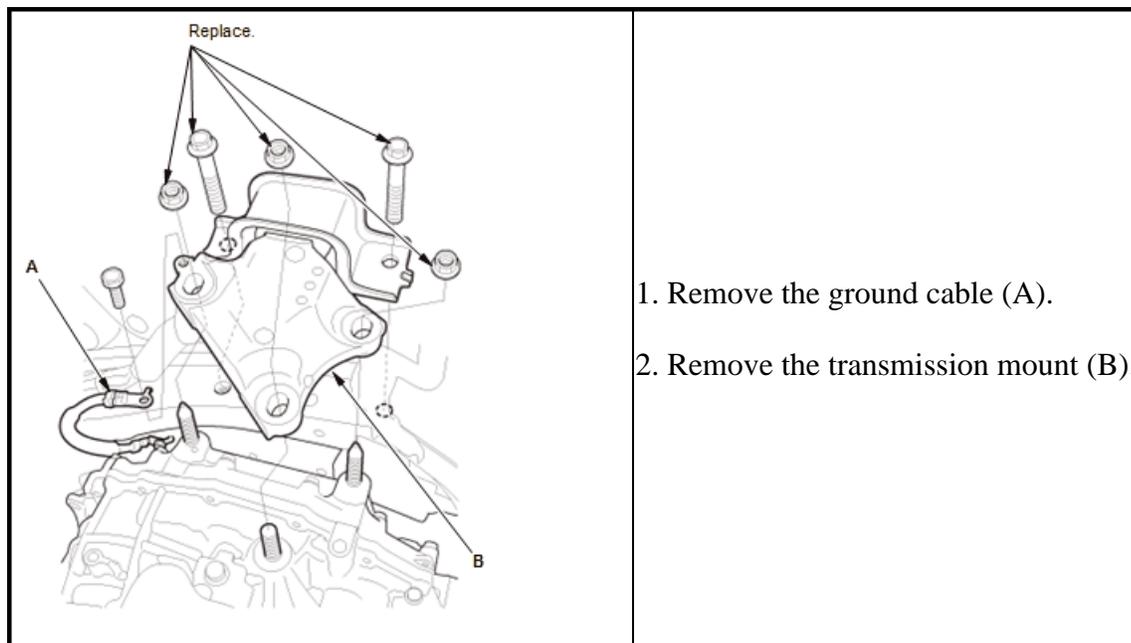
18. Engine Support Hanger - Install



19. Upper Transmission Assembly Mounting Bolt - Remove

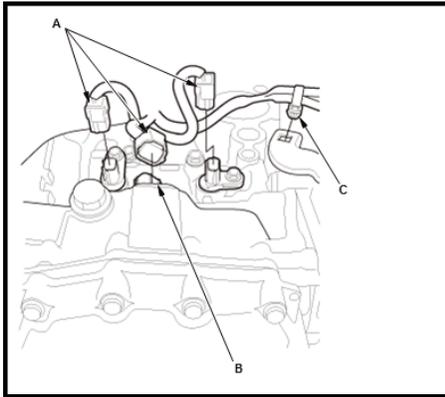
NOTE: Refer to the Exploded View as needed during this procedure.

20. Transmission Mount - Remove



21. Vehicle - Lift Up

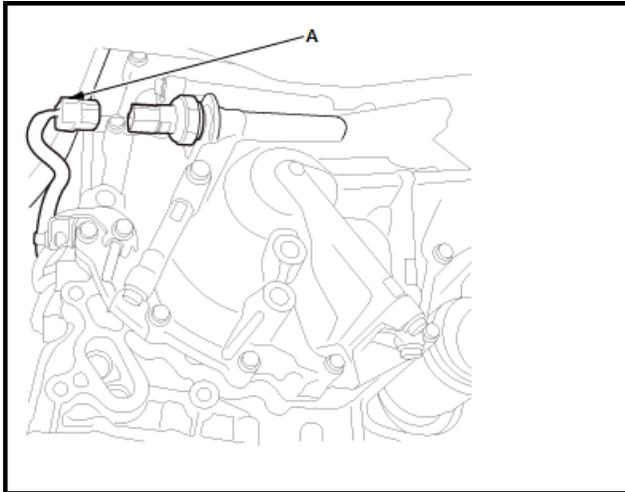
22. Engine Wire Harness - Remove (Transmission Lower Side).



1. Disconnect these connectors (A).

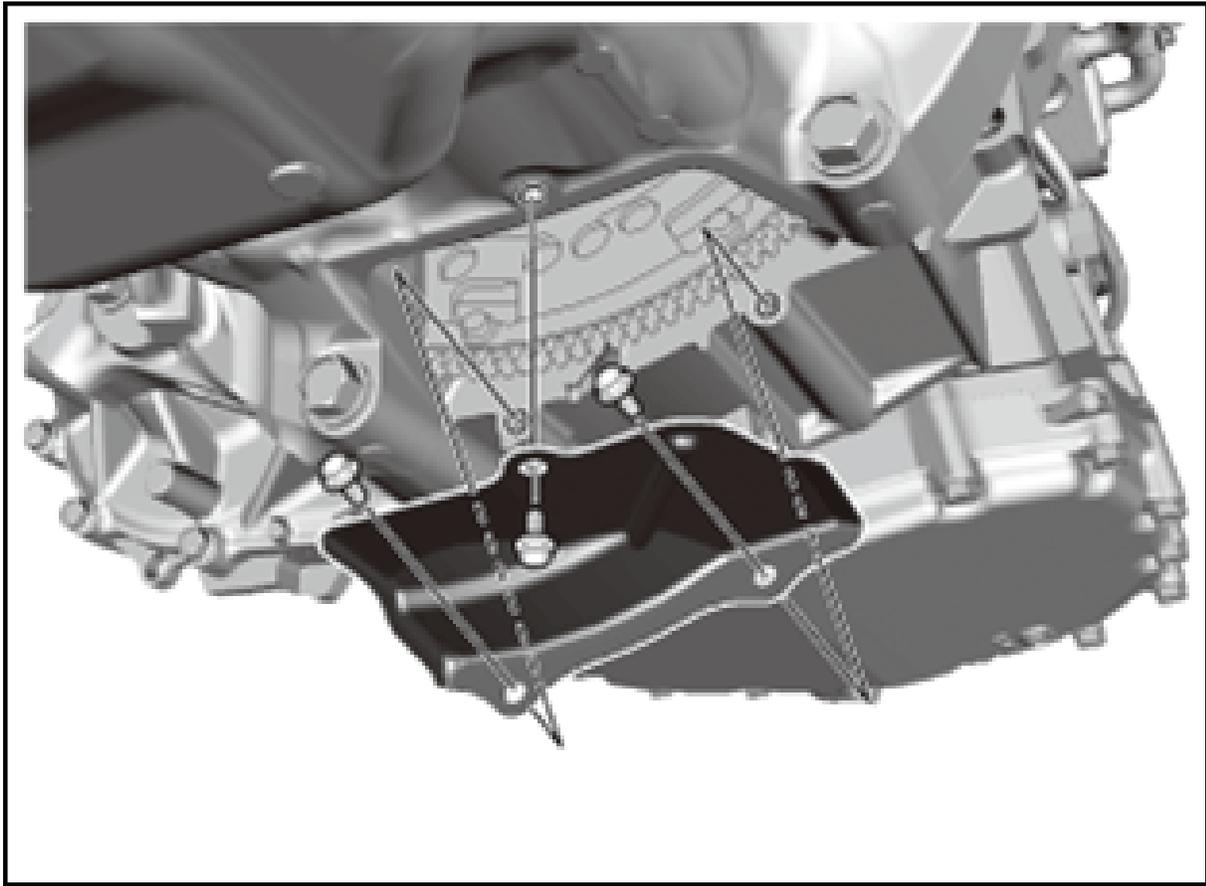
NOTE: To prevent damage, cover the solenoid wire harness connector (B) using a shop towel.

2. Remove the harness clamp (C).

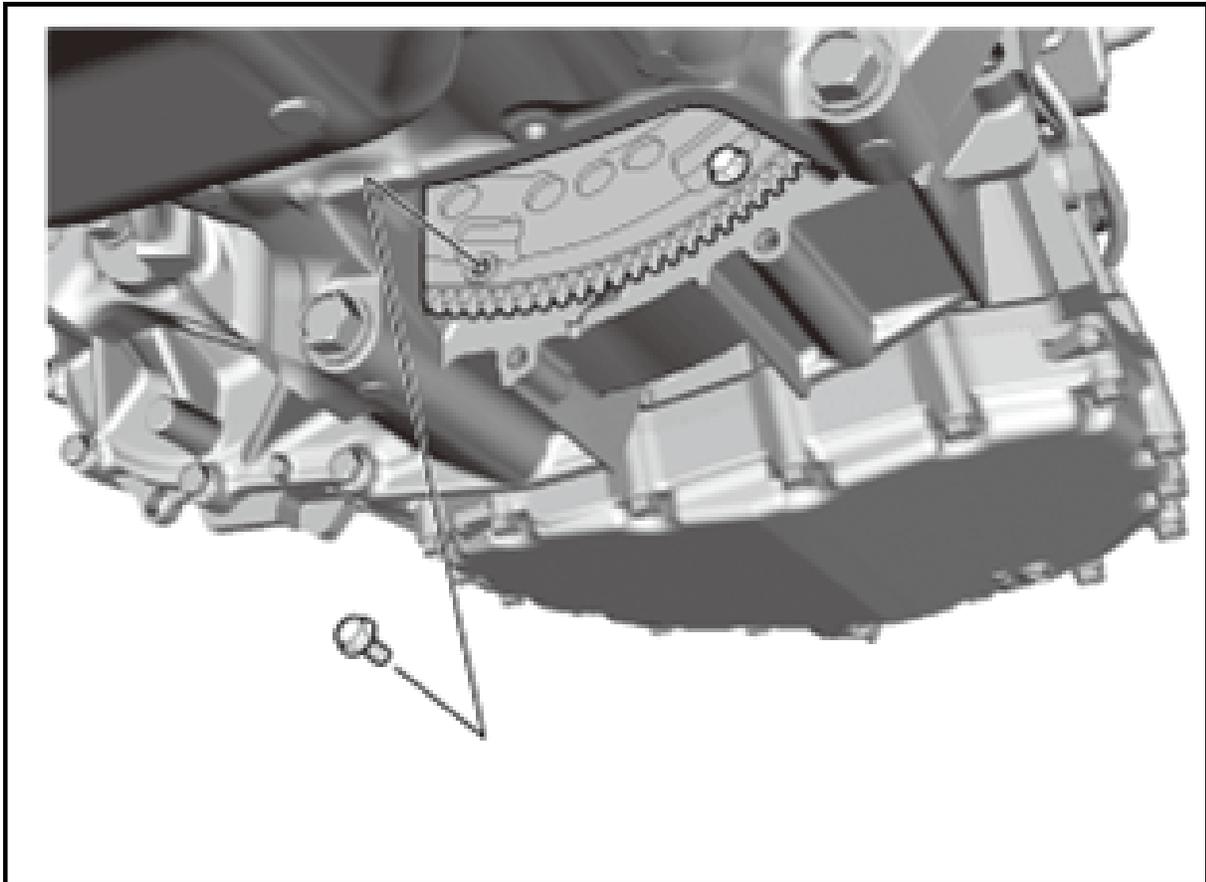


3. Disconnect the connector (A).

- 23. **Front Wheel - Remove** (Both Sides)
- 24. **Lower Stabilizer Link Ball Joint - Disconnect** (Both Sides)
- 25. **Lower Arm Ball Joint - Disconnect** (Both Sides)
- 26. **Tie-Rod End Ball Joint - Disconnect** (Both Sides)
- 27. **Propeller Shaft (Transfer Side) - Disconnect** (With AWD)
- 28. Torque Converter Cover - Remove



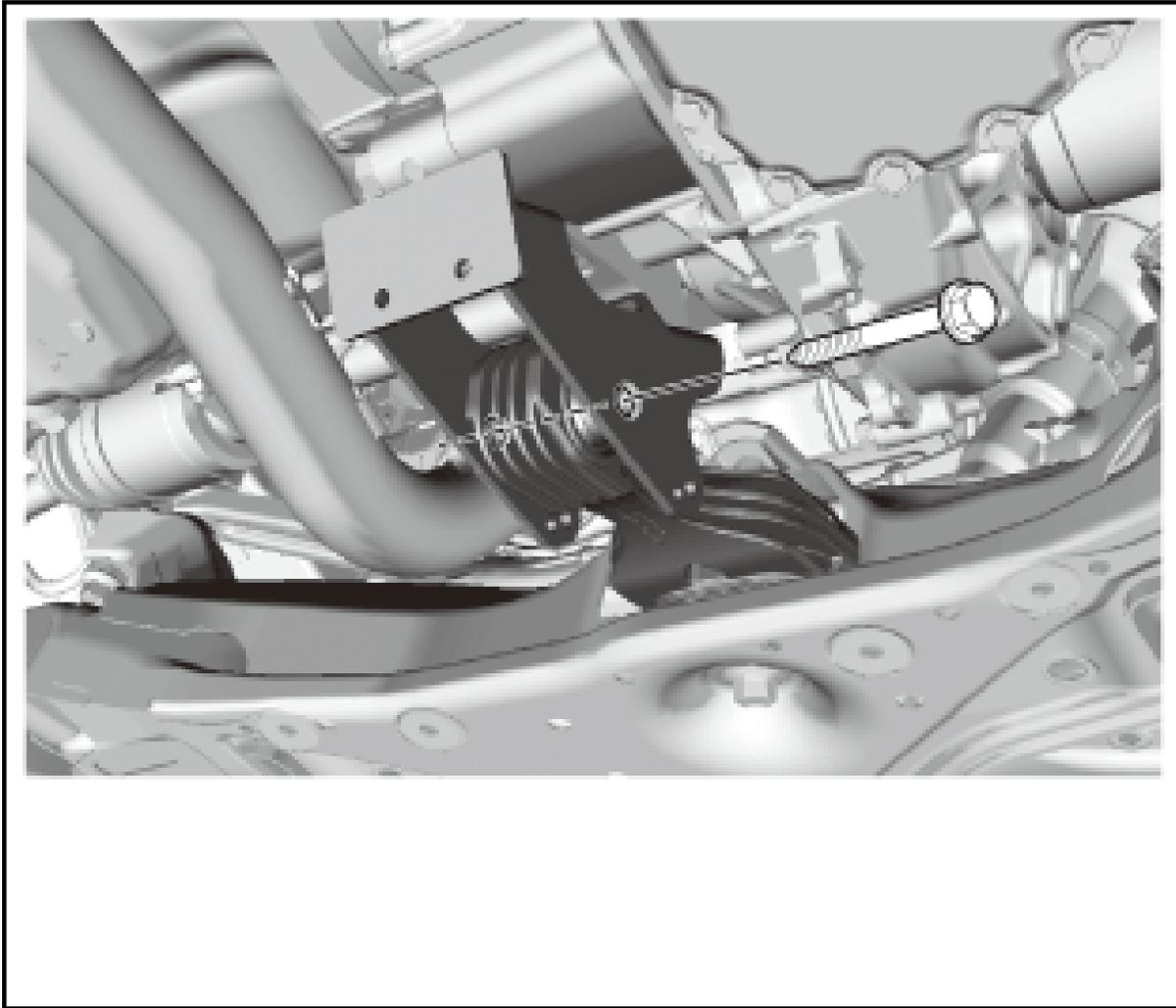
29. Torque Converter Bolt - Remove



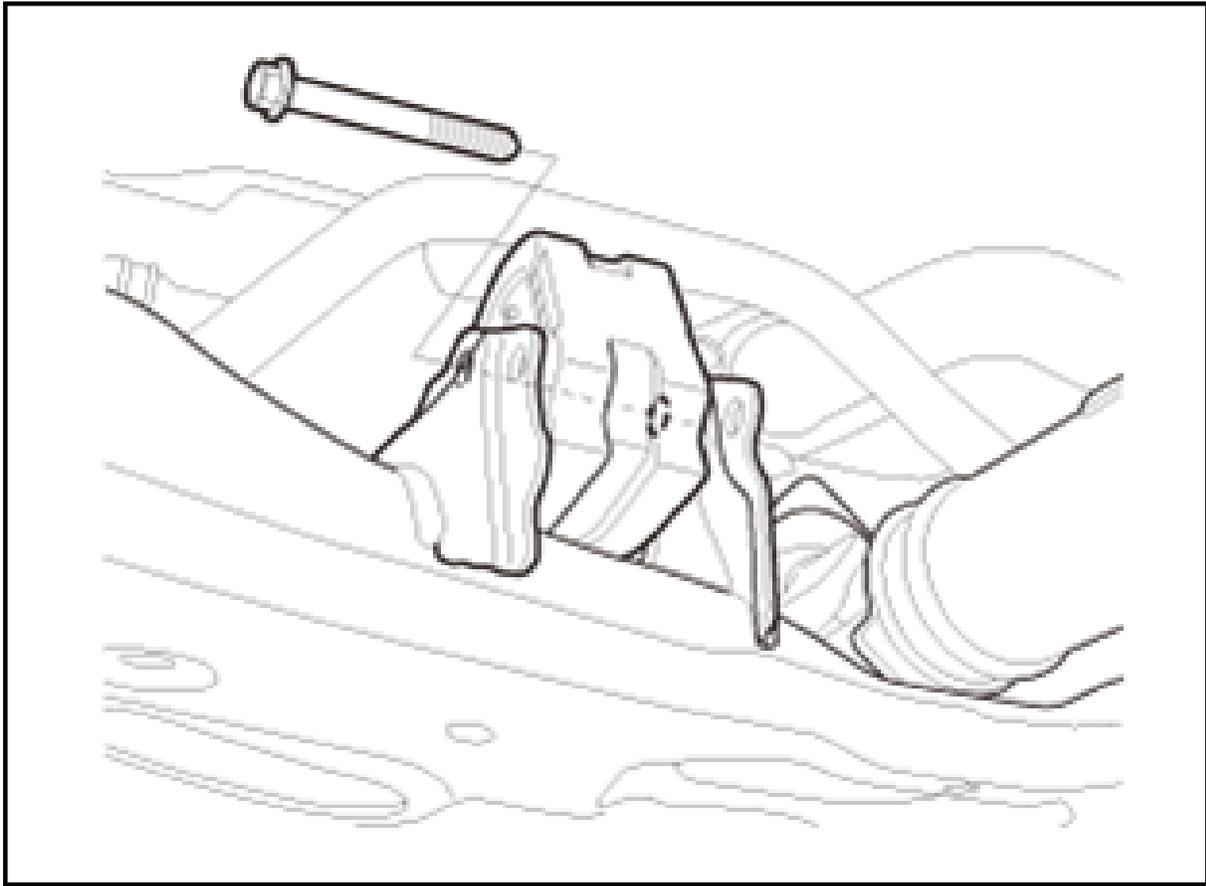
NOTE: There are eight torque converter bolts.

30. Torque Rod Mounting Bolt - Remove

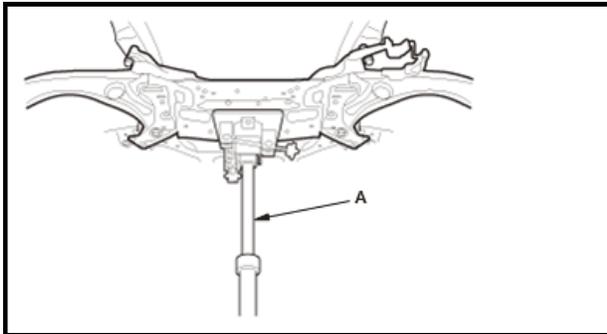
2WD



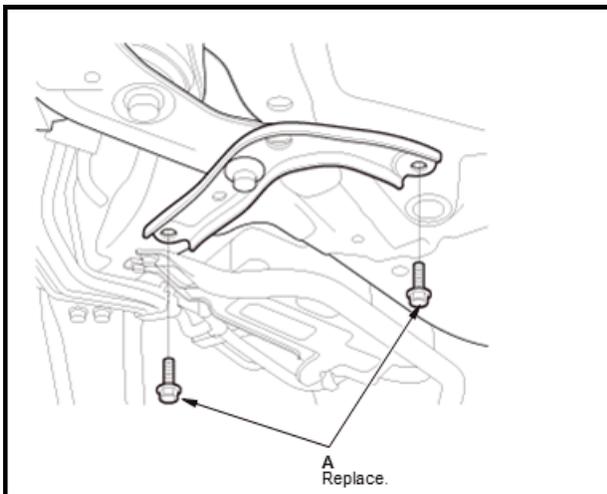
AWD



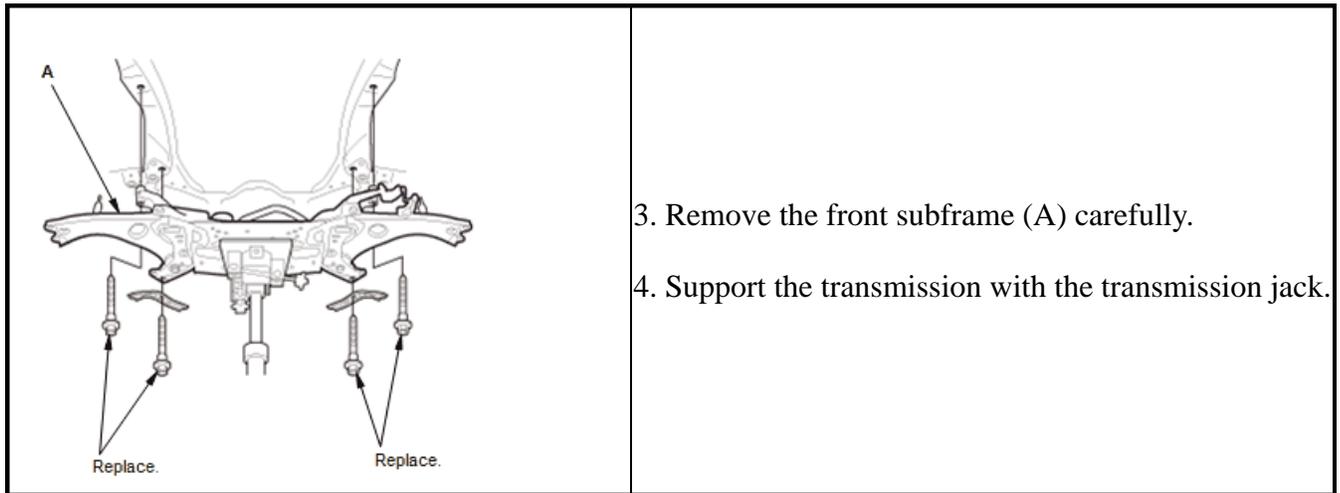
31. Front Subframe - Remove



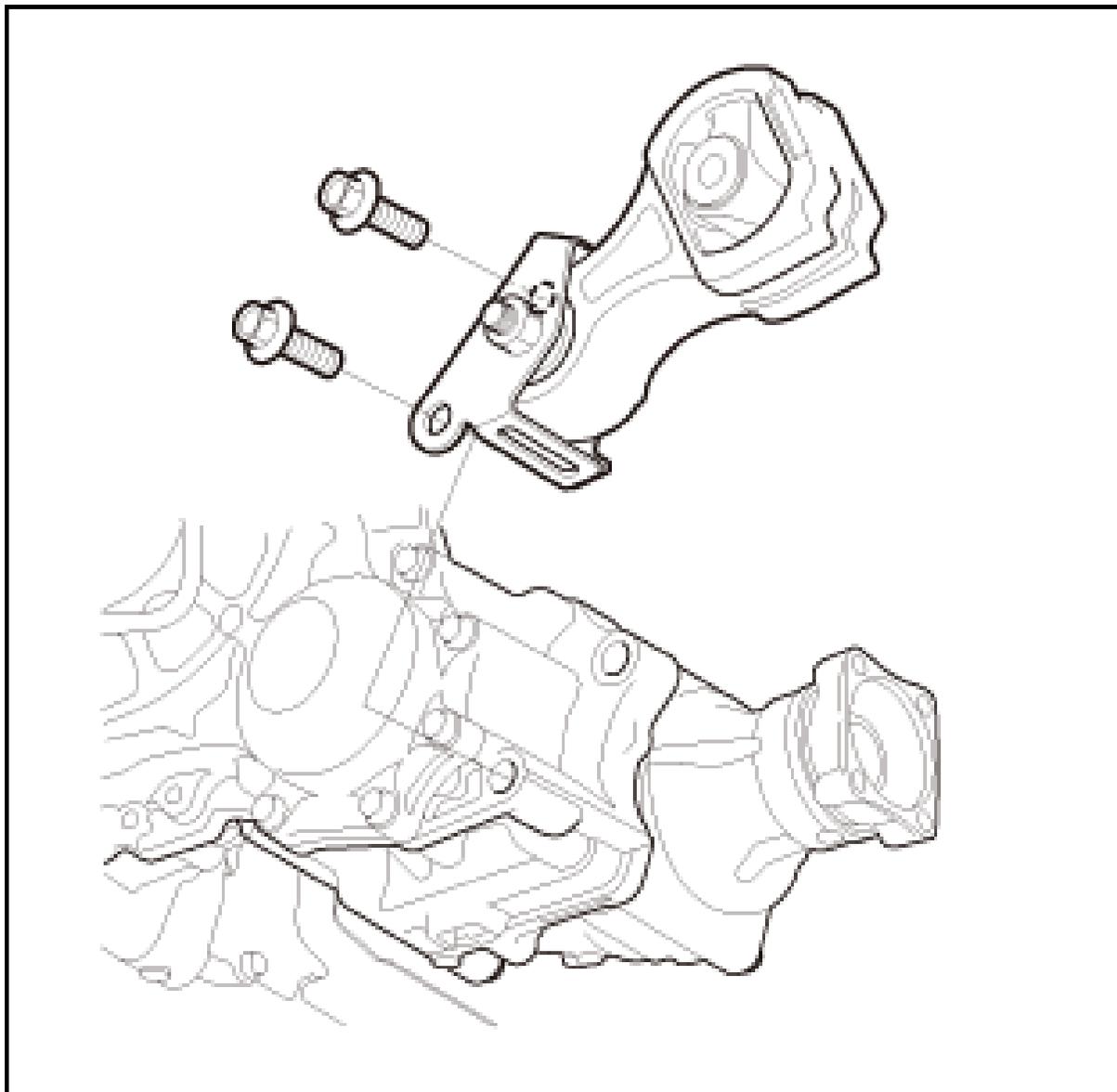
1. Support the front subframe with a transmission jack (A).



2. Remove the front subframe stay on both sides (A).



32. Torque Rod - Remove (With AWD)



33. Driveshaft Inboard Joint - Disconnect (Both Sides)

NOTE: Secure both driveshafts to the body with nylon straps.

34. **Intermediate Shaft - Remove**

35. Lower Transmission Assembly Mounting Bolt - Remove

NOTE: Refer to the Exploded View as needed during this procedure.

36. Transmission - Remove

A	1. Check once again that the transmission is free of hoses and electrical wiring.
	2. Lower the transmission by loosening the wing nut of the engine support hanger, and tilt the engine just enough for the transmission to clear its end from the side frame.
	3. Slide the transmission away from the engine, then remove the transmission from the vehicle.
NOTE: Be careful not to drop the torque converter.	

37. Dowel Pin - Remove

NOTE: Refer to the Exploded View as needed during this procedure.

38. Torque Converter - Remove

	1. Remove the torque converter (A) with the O-ring (B).
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39. Drive Plate - Inspect

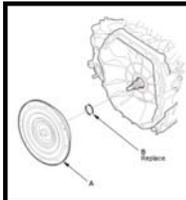
A	1. Inspect the drive plate, and <u>replace it if it is damaged</u> .
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Installation

NOTE:

- Use fender covers to avoid damaging painted surfaces.
- Keep all foreign particles out of the transmission.

1. Torque Converter - Install



1. Install the torque converter (A) with a new O-ring (B).

NOTE: Make sure the torque converter is fully engaged on the input shaft, the stator shaft, and the transmission fluid pump drive gear. Failure to do so will result in severe transmission or engine damage.

2. Dowel Pin - Install

NOTE: Refer to the Exploded View as needed during this procedure.

3. Lower Transmission Assembly Mounting Bolt - Install

NOTE: Refer to the Exploded View as needed during this procedure.

4. **Intermediate Shaft - Install**

5. **Driveshaft Inboard Joint - Connect (Both Sides)**

6. Torque Rod - Install (With AWD)

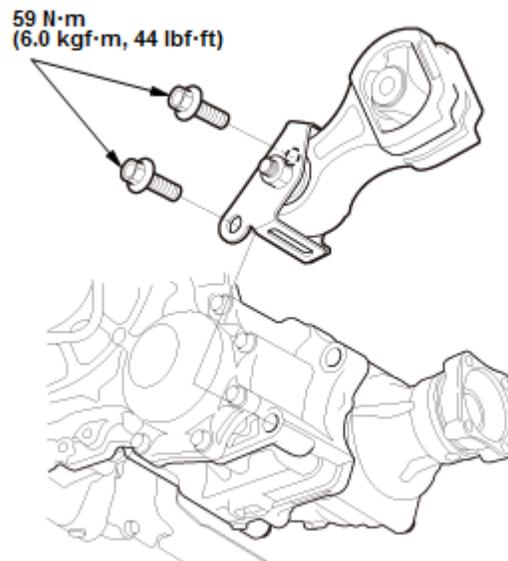
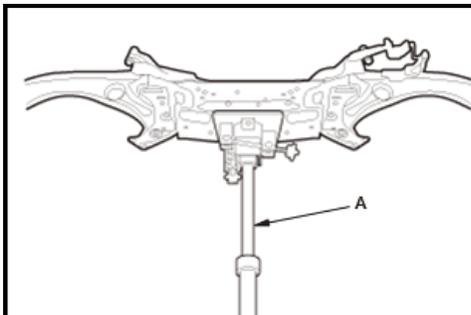


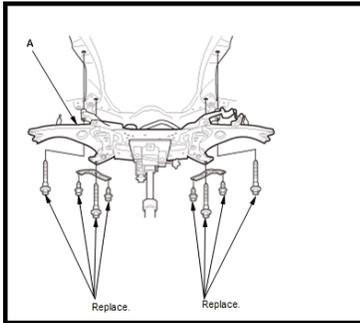
Fig. 6: Torque Rod With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

7. Front Subframe - Install

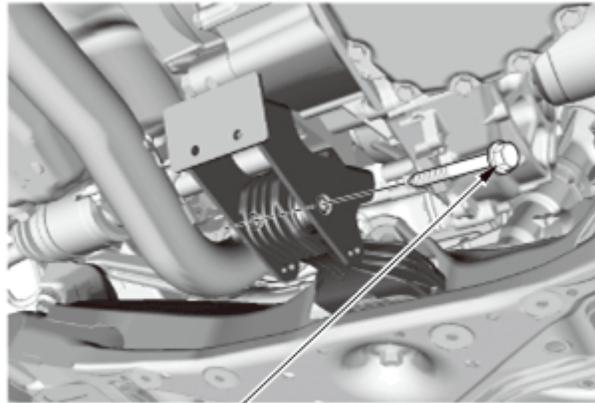


1. Support the front subframe with a transmission jack (A).



2. Raise the front subframe (A) up to the body.
3. Loosely install the front subframe using the appropriate bolts.
4. **Align the front subframe with the subframe alignment pin, then tighten the mounting bolts to the specified torque .**
5. Remove the transmission jack.

8. Torque Rod Mounting Bolt - Install



83 N·m (8.5 kgf·m, 61 lbf·ft)
Replace.

Fig. 7: Torque Rod Mounting Bolt With Torque Specifications (2WD)

Courtesy of HONDA, U.S.A., INC.

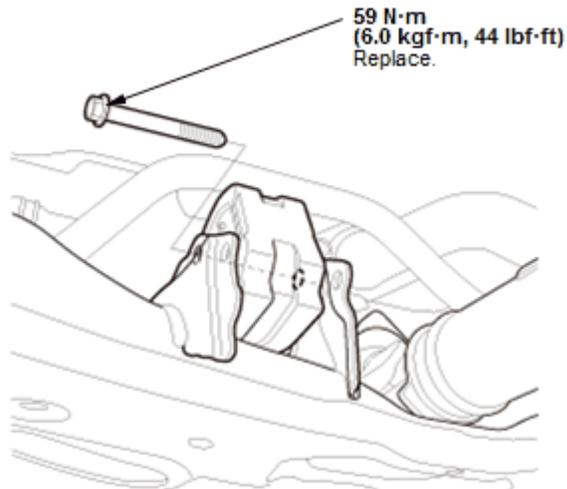
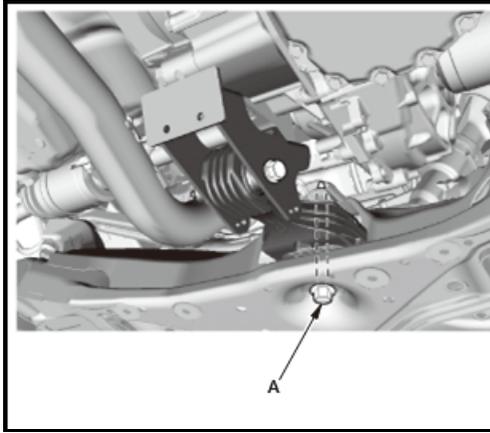


Fig. 8: Torque Rod Mounting Bolt With Torque Specifications (AWD)

Courtesy of HONDA, U.S.A., INC.

9. Torque Rod Mounting Bolt - Loosen



1. Loosen the torque rod mounting bolt (A).

10. Torque Converter Bolt - Install

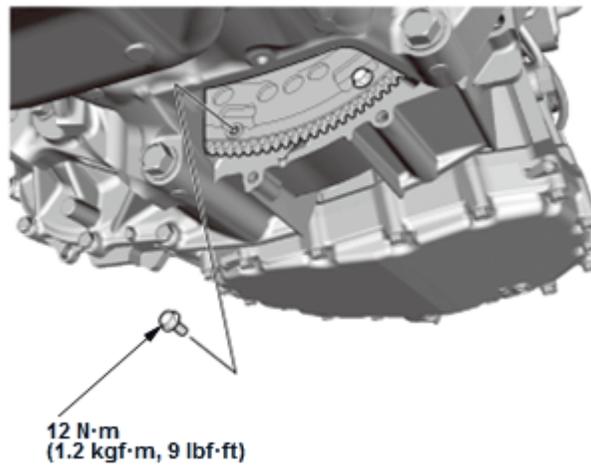


Fig. 9: Torque Converter Bolt With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

NOTE: There are eight torque converter bolts.

11. Torque Converter Cover - Install

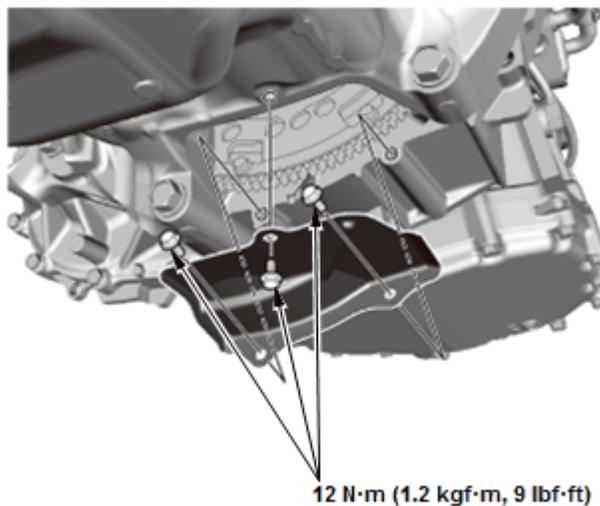
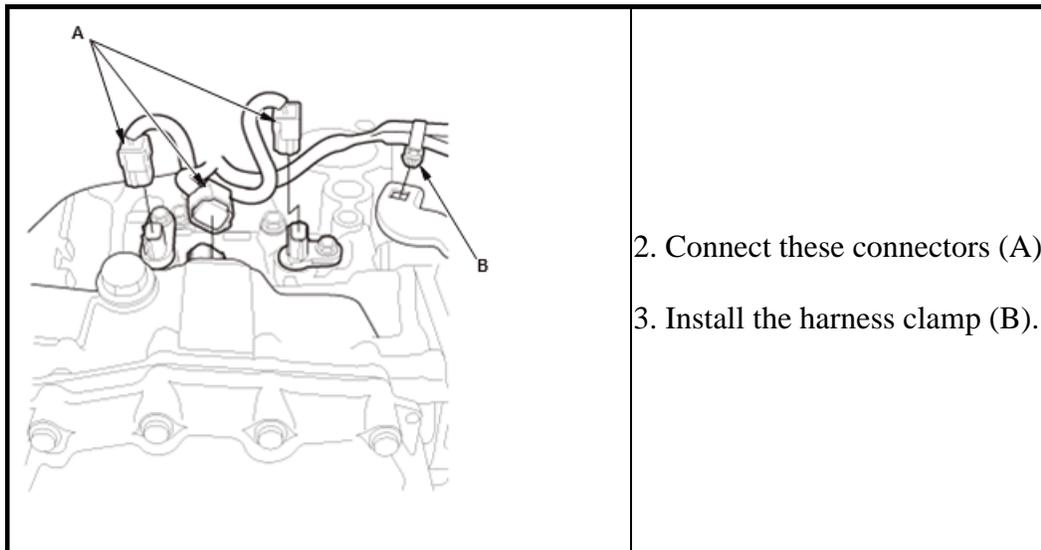
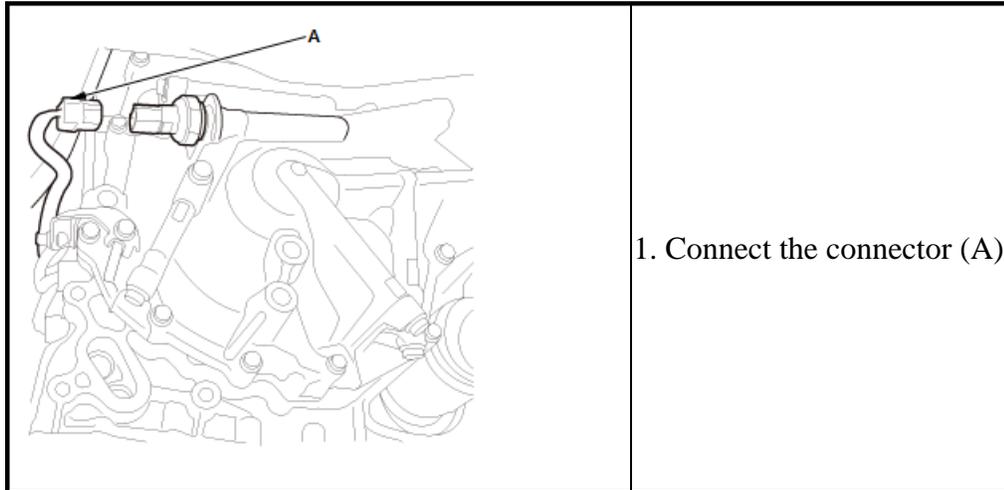


Fig. 10: Torque Converter Cover With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

12. **Propeller Shaft (Transfer Side) - Connect** (With AWD)
13. **Tie-Rod End Ball Joint - Connect** (Both Sides)
14. **Lower Arm Ball Joint - Connect** (Both Sides)
15. **Lower Stabilizer Link Ball Joint - Connect** (Both Sides)
16. Engine Wire Harness - Install (Transmission Lower Side)



17. Vehicle - Lift Down
18. Transmission Mount - Install

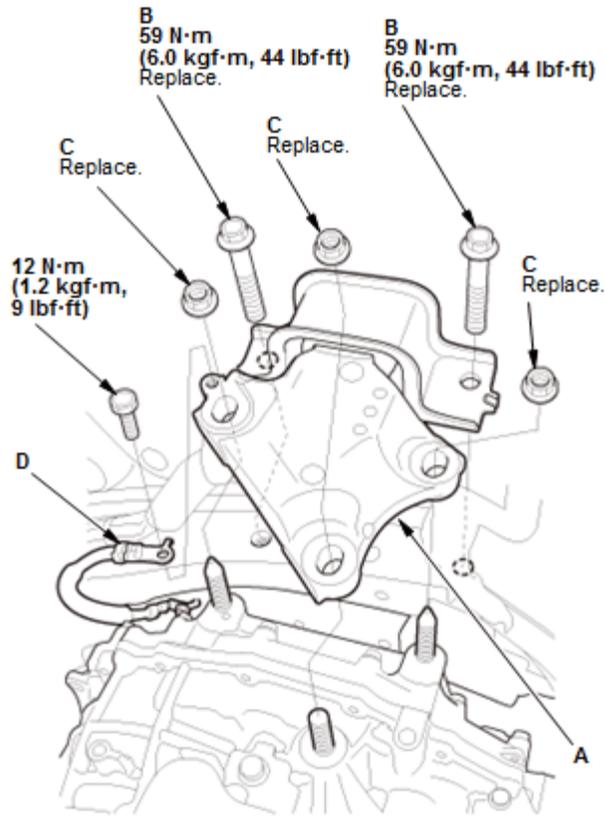


Fig. 11: Transmission Mount With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|----|--------------------------------------------------------------------|
| 1. | Install the transmission mount (A) to the body with new bolts (B). |
| 2. | Loosely install new transmission mount bracket mounting nuts (C). |
| 3. | Install the ground cable (D). |

19. Upper Transmission Assembly Mounting Bolt - Install

NOTE: Refer to the Exploded View as needed during this procedure.

20. Engine Support Hanger - Remove

21. Universal Lifting Eyelet - Remove

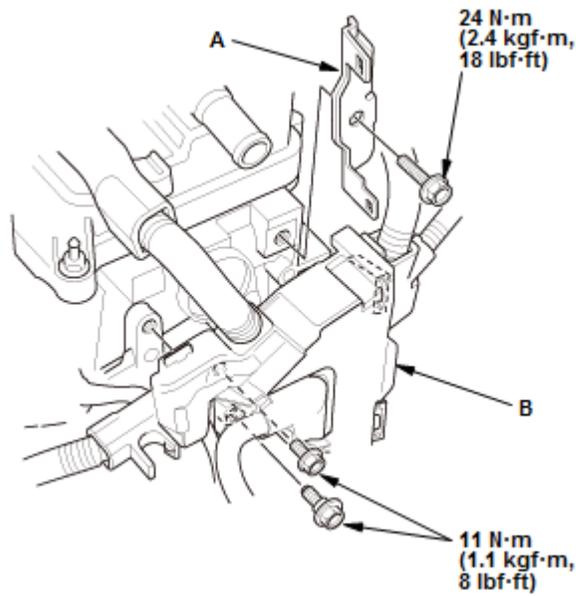
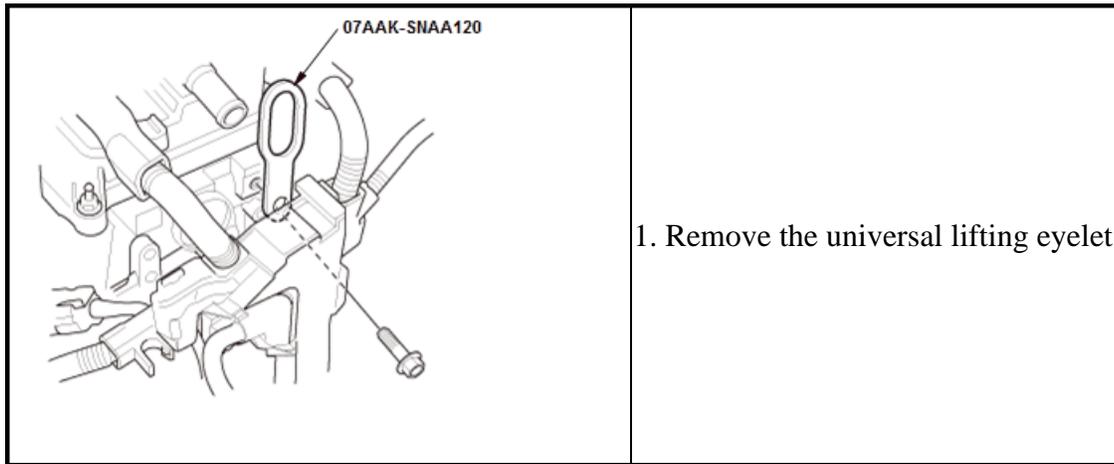


Fig. 12: Harness Holder With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|---|------------------------------------|
| Â | 2. Install the bracket (A). |
| | 3. Install the harness holder (B). |

22. Engine Wire Harness - Install (Engine Side)

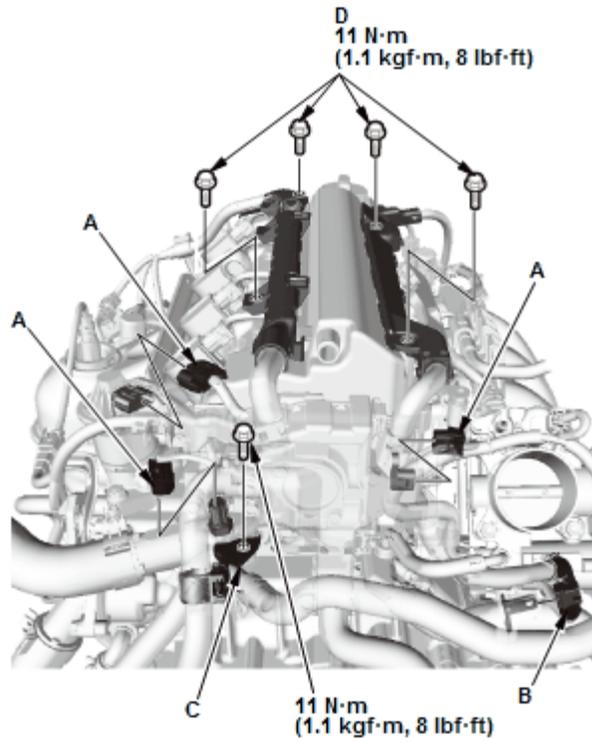
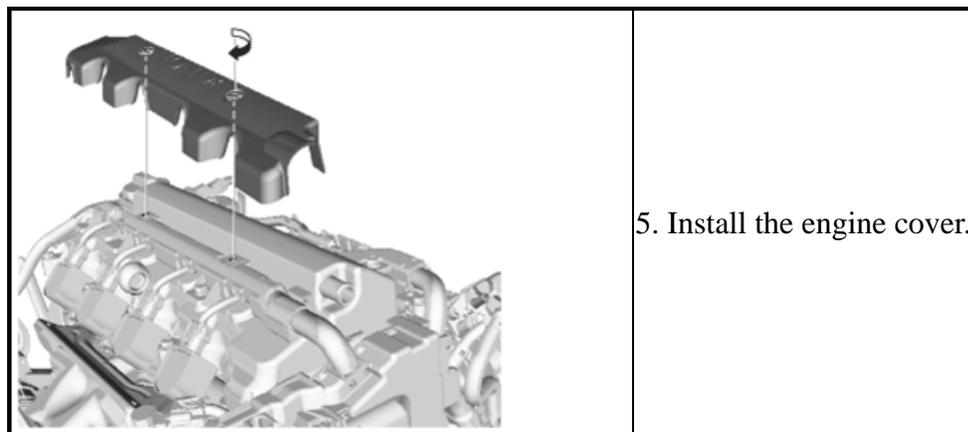


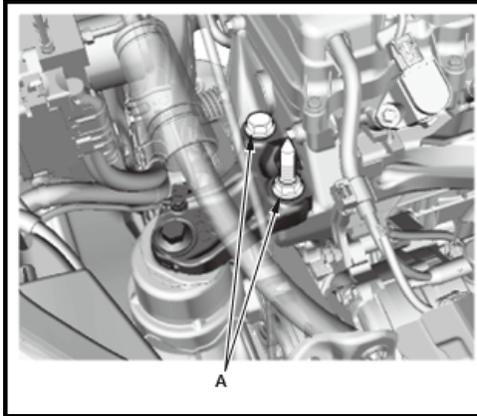
Fig. 13: Engine Wire Harness With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | | |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | <ol style="list-style-type: none"> 1. Connect these connectors (A). 2. Install the harness holder (B). 3. Install the harness bracket (C). 4. Install the harness cover bolts (D). |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



23. Side Engine Mount Mounting Bolt and Nut - Loosen



1. Loosen the side engine mount mounting bolt and nut (A).

24. Side Engine Mount Mounting Bolt and Nut - Tighten

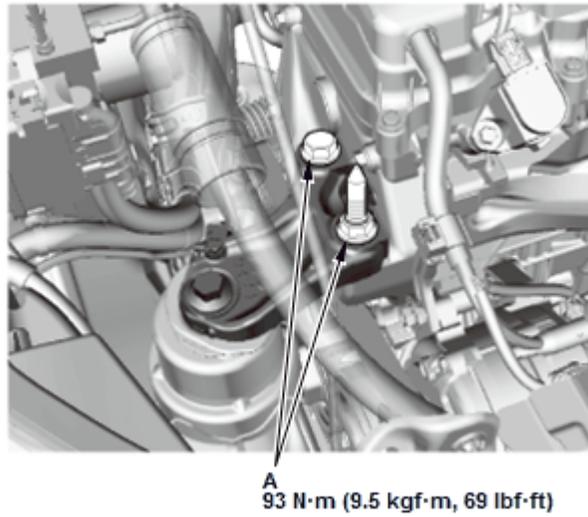


Fig. 14: Side Engine Mount Mounting Bolt and Nut With Torque Specifications
Courtesy of HONDA, U.S.A., INC.

1. Tighten the side engine mount mounting bolt and nut (A).

25. Transmission Mount Mounting Nut - Tighten

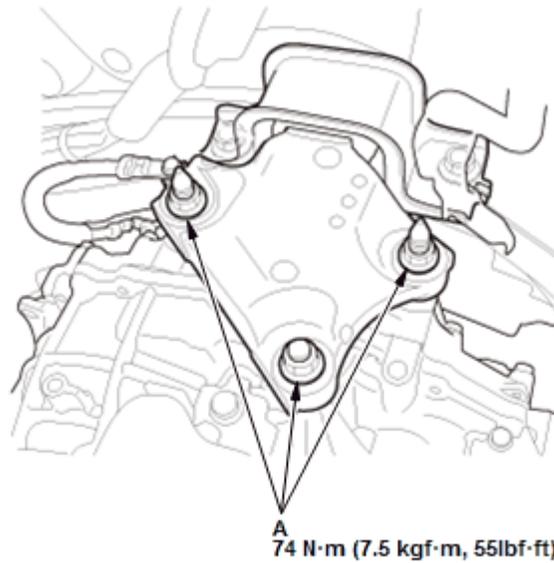


Fig. 15: Transmission Mount Mounting Nut With Torque Specifications
 Courtesy of HONDA, U.S.A., INC.

1. Tighten the transmission mount mounting nuts (A).

26. Vehicle - Lift Up

27. Torque Rod Mounting Bolt - Tighten

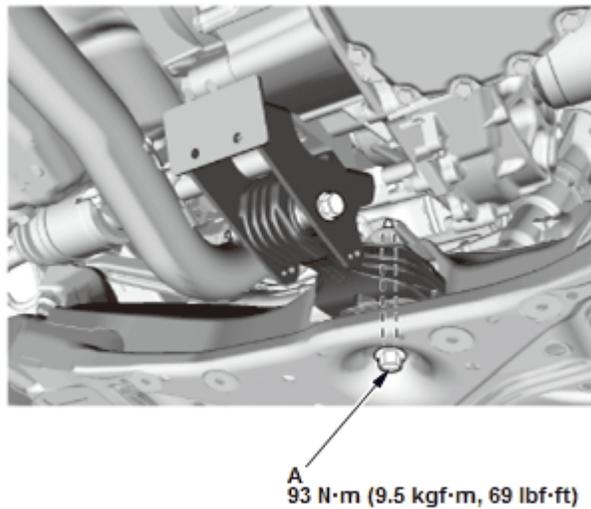


Fig. 16: Torque Rod Mounting Bolt With Torque Specifications
 Courtesy of HONDA, U.S.A., INC.

1. Tighten the torque rod mounting bolt (A).

28. Vehicle - Lift Down

29. Shift Cable (Transmission Side) - Install

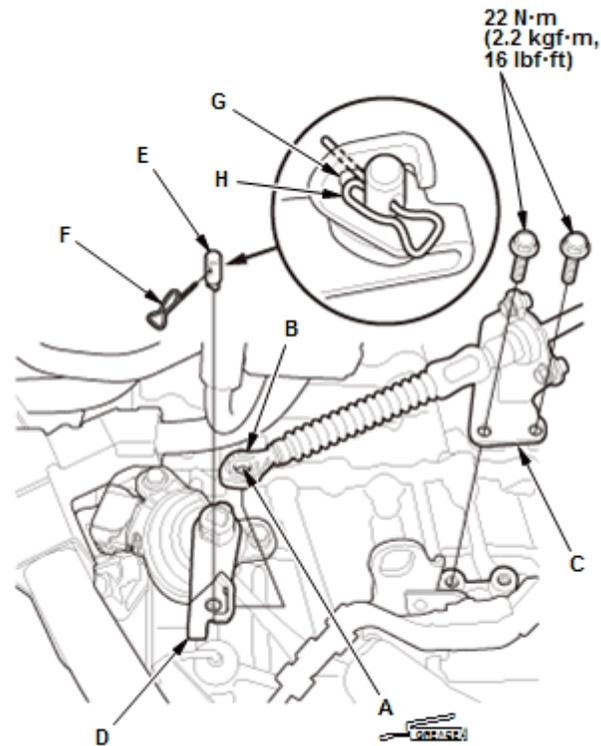


Fig. 17: Shift Cable (Transmission Side) With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

1. Apply molybdenum grease to the inner surface of the hole (A) in the shift cable end (B).
2. Install the shift cable bracket (C) while installing the shift cable end to the control lever (D).

NOTE: Do not bend the shift cable excessively.

3. Install the control pin (E).
4. Insert the lock pin (F) in the direction shown through the control pin hole and out the opening (G) of the control lever so that the hooked end (H) of the lock pin locks into the control pin hole.

30. Shift Cable - Adjust

31. Engine Wire Harness - Install (Transmission Upper Side)

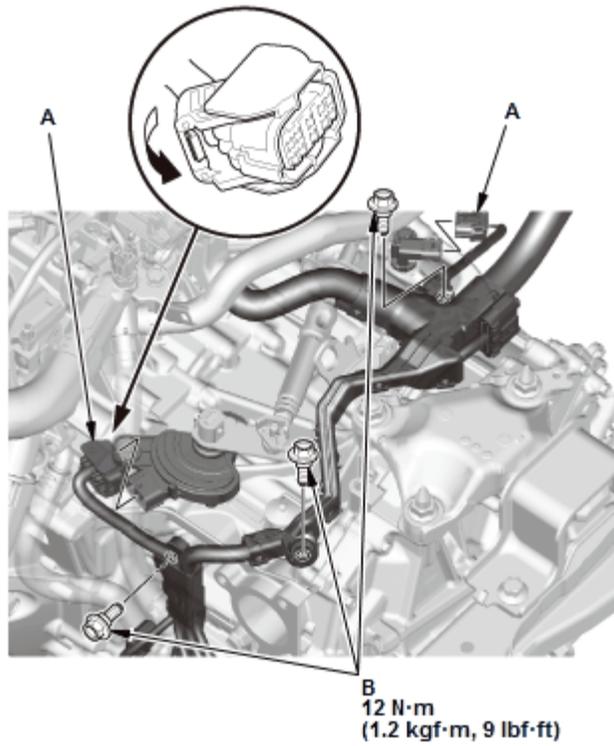


Fig. 18: Engine Wire Harness (Transmission Upper Side) With Torque Specifications
 Courtesy of HONDA, U.S.A., INC.

- | | |
|-----------|----------------------------------|
| \hat{A} | 1. Connect these connectors (A). |
| | 2. Install the bolts (B). |

32. Transmission Fluid Warmer - Install

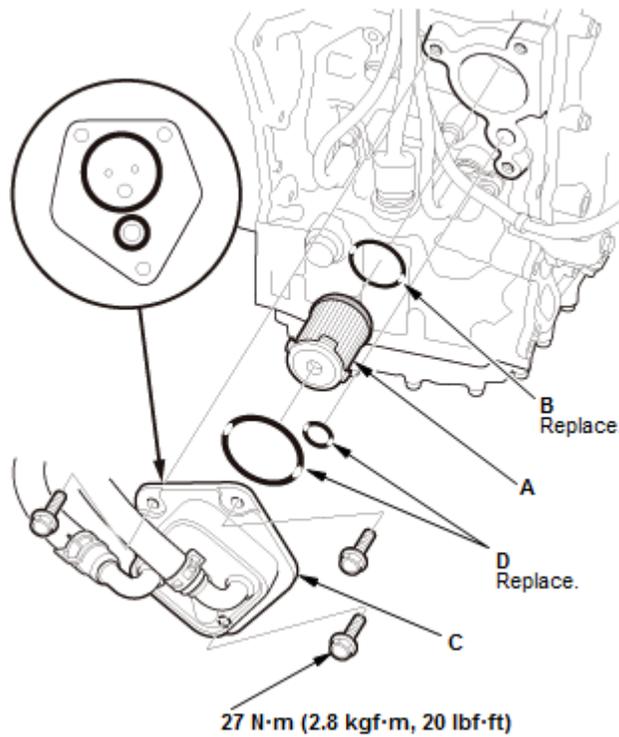


Fig. 19: Transmission Fluid Warmer With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

Â	1. Install the transmission fluid warmer strainer (A) with a new O-ring (B).
	2. Install the transmission fluid warmer (C) with new O-rings (D).
	NOTE: The transmission fluid warmer is aluminum part. Be careful not to damage the transmission fluid warmer.

- 33. **12 Volt Battery - Install**
- 34. **Air Cleaner - Install**
- 35. **Front Grille Cover - Install**
- 36. **Cowl Cover - Install**
- 37. **Front Wiper Arm - Install**
- 38. **Steering Joint - Connect**
- 39. **Transmission Fluid - Refill**
- 40. Transmission - After Install Check

Â	1. Make sure all four wheels to rotate freely.
	2. Start the engine.
	NOTE: Check that the engine starts in P or N position/mode, and does not start in any other positions / modes.
	3. Check the shift lever operation.
	4. Move the shift lever through all positions / modes, and verify the transmission range switch matches with the A/T gear position indicator.
	5. Make sure the vehicle is turned to the OFF (LOCK) mode with the shift lever is in P position/mode. If it does not, adjust the shift cable Shift Cable Adjustment.

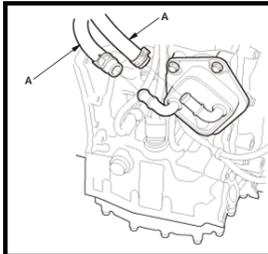
- 41. **Transmission Fluid Level - Check**
- 42. **Front Wheel - Install** (Both Sides)
- 43. **Left Front Splash Shield - Install**
- 44. **Engine Undercover - Install** (With 2WD)
- 45. **Wheel Alignment - Check**
- 46. **VSA Sensor Neutral Position - Memorize**
- 47. Vehicle - Test-Drive - Refer to: **Stall Speed Test (CVT)**, or **CVT Road Test (CVT)**

CVTF WARMER REMOVAL AND INSTALLATION (CVT)

Removal

NOTE: Keep all foreign particles out of the transmission.

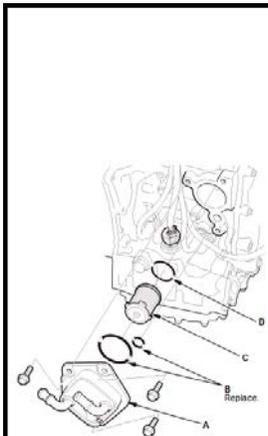
1. **Radiator Coolant - Drain**
2. **Front Grille Cover - Remove**
3. **Air Cleaner - Remove**
4. Transmission Fluid Warmer Hose - Disconnect



1. Disconnect the transmission fluid warmer hoses (A).

NOTE: Be careful not to damage the transmission fluid warmer when disconnecting the transmission fluid warmer hoses.

5. Transmission Fluid Warmer - Remove



1. Remove the transmission fluid warmer (A) with the O-rings (B).

NOTE: The transmission fluid warmer is aluminum part. Be careful not to damage the transmission fluid warmer.

2. Remove the transmission fluid warmer strainer (C) with the O-ring (D).

3. Clean the transmission fluid warmer strainer if necessary. Replace the transmission fluid warmer strainer, if it is clogged or damaged.

NOTE:

- Do not use compressed air to clean the transmission fluid warmer strainer.
- Soak the transmission fluid warmer strainer thoroughly in transmission fluid.

Installation

NOTE:

- Keep all foreign particles out of the transmission.
- Apply a light coat of clean transmission fluid on all O-rings before installation.

1. Transmission Fluid Warmer - Install

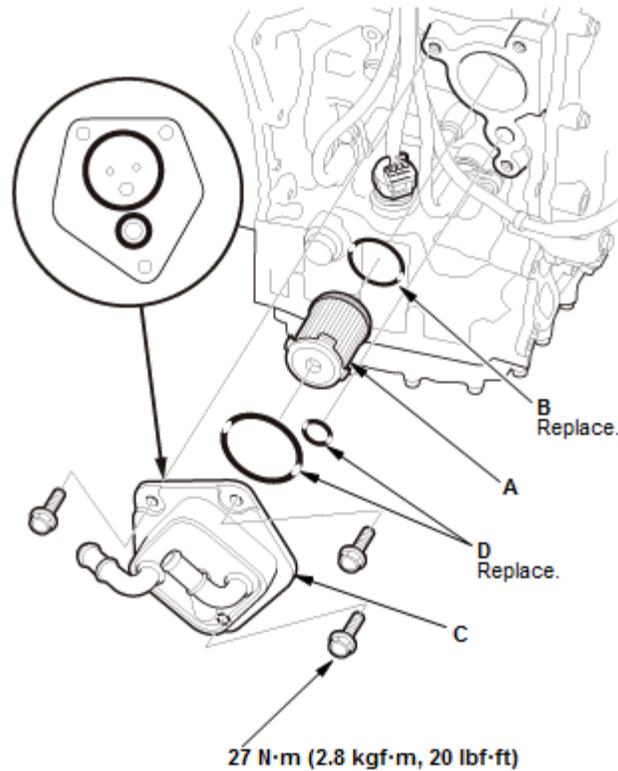


Fig. 20: Transmission Fluid Warmer With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

A	<ol style="list-style-type: none"> 1. Install the transmission fluid warmer strainer (A) with a new O-ring (B). 2. Install the transmission fluid warmer (C) with new O-rings (D). <p>NOTE: The transmission fluid warmer is aluminum part. Be careful not to damage the transmission fluid warmer.</p>
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2. Transmission Fluid Warmer Hose - Connect

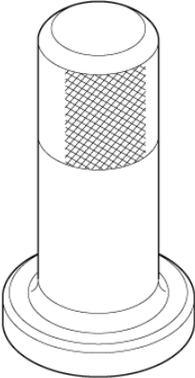
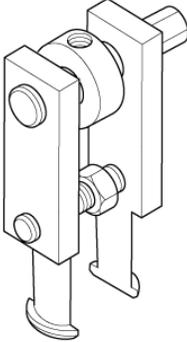
	<ol style="list-style-type: none"> 1. Connect the transmission fluid warmer hoses (A), while aligning the paint marks (B) on the transmission fluid warmer lines with the paint marks (C) on the transmission fluid warmer hose ends. <p>NOTE: Be careful not to damage the transmission fluid warmer when connecting the transmission fluid warmer hoses.</p> <ol style="list-style-type: none"> 2. Secure the transmission fluid warmer hoses with the clamps (D).
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- 3. [Air Cleaner - Install](#)
- 4. [Front Grille Cover - Install](#)
- 5. [Radiator Coolant - Refill](#)
- 6. [Transmission Fluid Level - Check](#)

END COVER DRIVEN PULLEY SHAFT BEARING REPLACEMENT (CVT)

*: 07YAC-0010102 must be used with commercially available 3/8"-16 slide hammer.

Special Tools Required

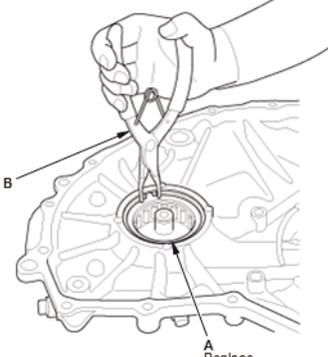
Image	Description/Tool Number
	Oil Seal Driver, 65 mm 07JAD-PL90100
	Adjustable Bearing Puller, 45-75 mm 07YAC-0010102*

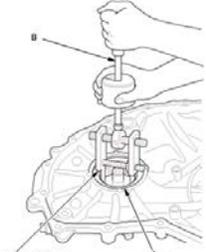
*: 07YAC-0010102 must be used with commercially available 3/8"-16 slide hammer.

Replacement

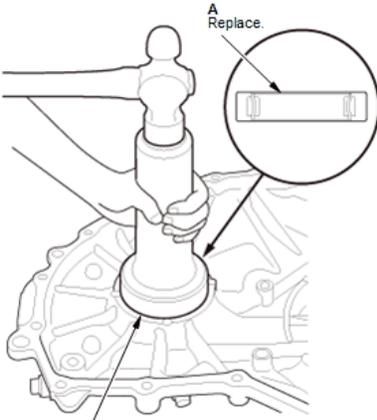
NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

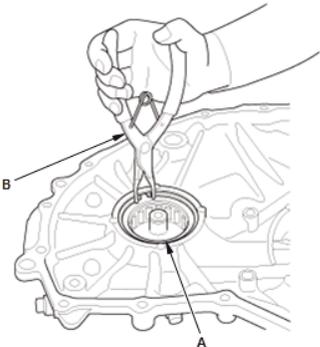
- 1. Driven Pulley Shaft Bearing - Remove

	<p>1. Remove the snap ring (A) using commercially available snap ring pliers (B).</p>
-----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

	<p>2. Remove the driven pulley shaft bearing (A) using the 45 - 75 mm adjustable bearing puller and a commercially available 3/8"-16 slide hammer (B).</p>
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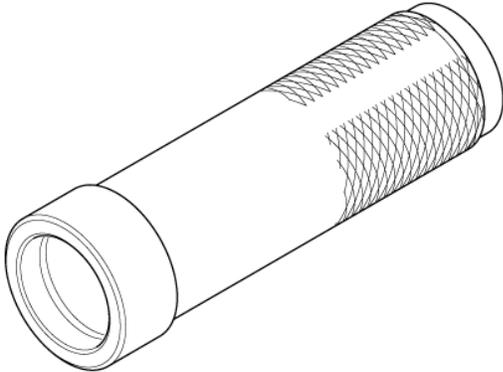
2. Driven Pulley Shaft Bearing - Install

	<p>1. Install the secondary shaft bearing (A) using the 65 mm oil seal driver.</p>
------------------------------------------------------------------------------------	------------------------------------------------------------------------------------

	<p>2. Install a new snap ring (A) using commercially available snap ring pliers (B).</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Be careful not to deform the snap ring by opening/closing it excessively. • Make sure the snap ring is firmly installed in the groove.
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FINAL DRIVE SHAFT TAPERED ROLLER BEARING OUTER RACE REPLACEMENT (CVT)

Special Tools Required

Image	Description/Tool Number
	<p>Driver Handle, 40 mm I.D. 07746-0030100</p>

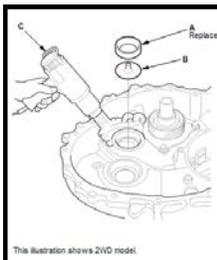
Replacement

NOTE:

- The tapered roller bearing and the tapered roller bearing outer race should be replaced as a set.
- **Adjust the tapered roller bearing preload** after replacing the tapered roller bearing and the tapered roller bearing outer race.
- Apply a light coat of clean transmission fluid on all parts before installation.

Transmission Housing Side

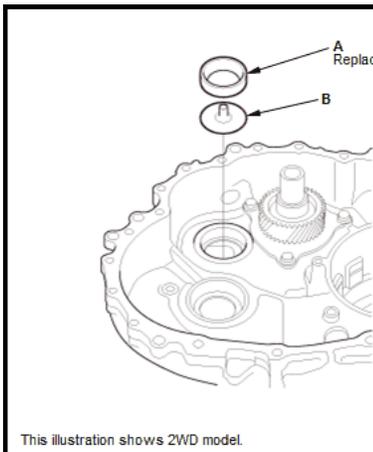
1. Final Drive Shaft Tapered Roller Bearing Outer Race - Remove



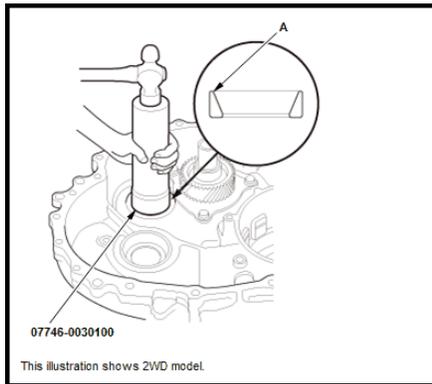
1. Remove the tapered roller bearing outer race (A) and the oil guide plate (B) by heating the transmission housing to about 212 °F (100 °C) using a heat gun (C).

NOTE: Do not heat the transmission housing more than 212 °F (100 °C).

2. Final Drive Shaft Tapered Roller Bearing Outer Race - Install



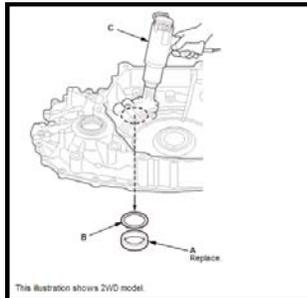
1. Install the tapered roller bearing outer race (A) and the oil guide plate (B).



2. Drive the tapered roller bearing outer race (A) until it bottoms using the 40 mm I.D. driver handle.

Torque Converter Housing Side

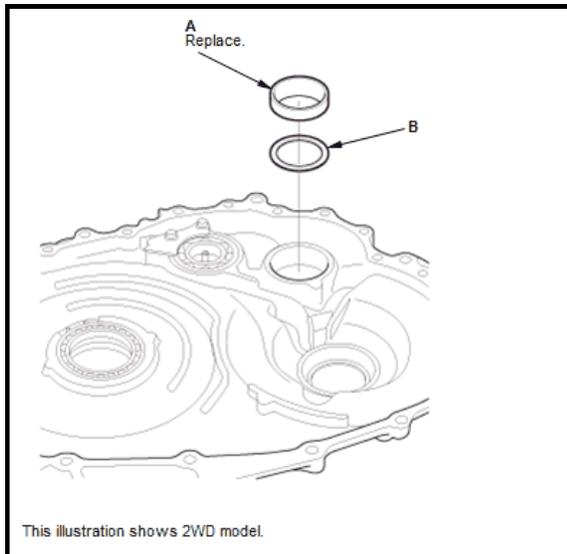
3. Final Drive Shaft Tapered Roller Bearing Outer Race - Remove



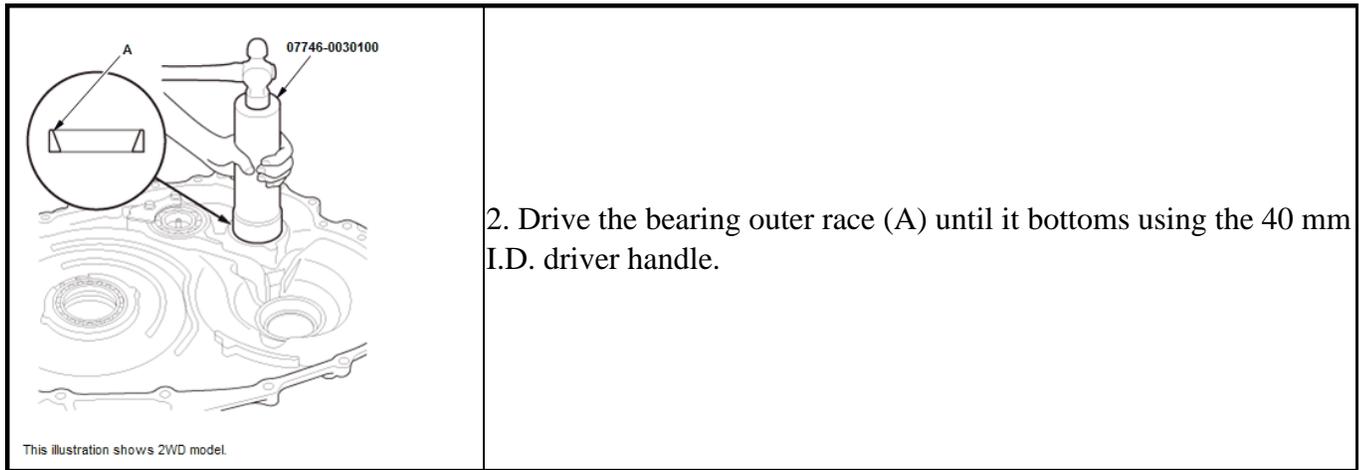
1. Remove the bearing outer race (A) and the 51 mm thrust shim (B) by heating the torque converter housing to about 212 Â°F (100 Â°C) using a heat gun (C).

NOTE: Do not heat the torque converter housing more than 212 Â°F (100 Â°C).

4. Final Drive Shaft Tapered Roller Bearing Outer Race - Install



1. Install the bearing outer race (A) and the 51 mm thrust shim (B).



2. Drive the bearing outer race (A) until it bottoms using the 40 mm I.D. driver handle.

INCLINATION SENSOR REMOVAL AND INSTALLATION (CVT)

Removal and Installation

NOTE: The inclination sensor is contained in the VSA modulator-control unit.

1. **VSA Modulator-Control Unit - Remove**
2. All Removed Parts - Install

1. Install the parts in the reverse order of removal.

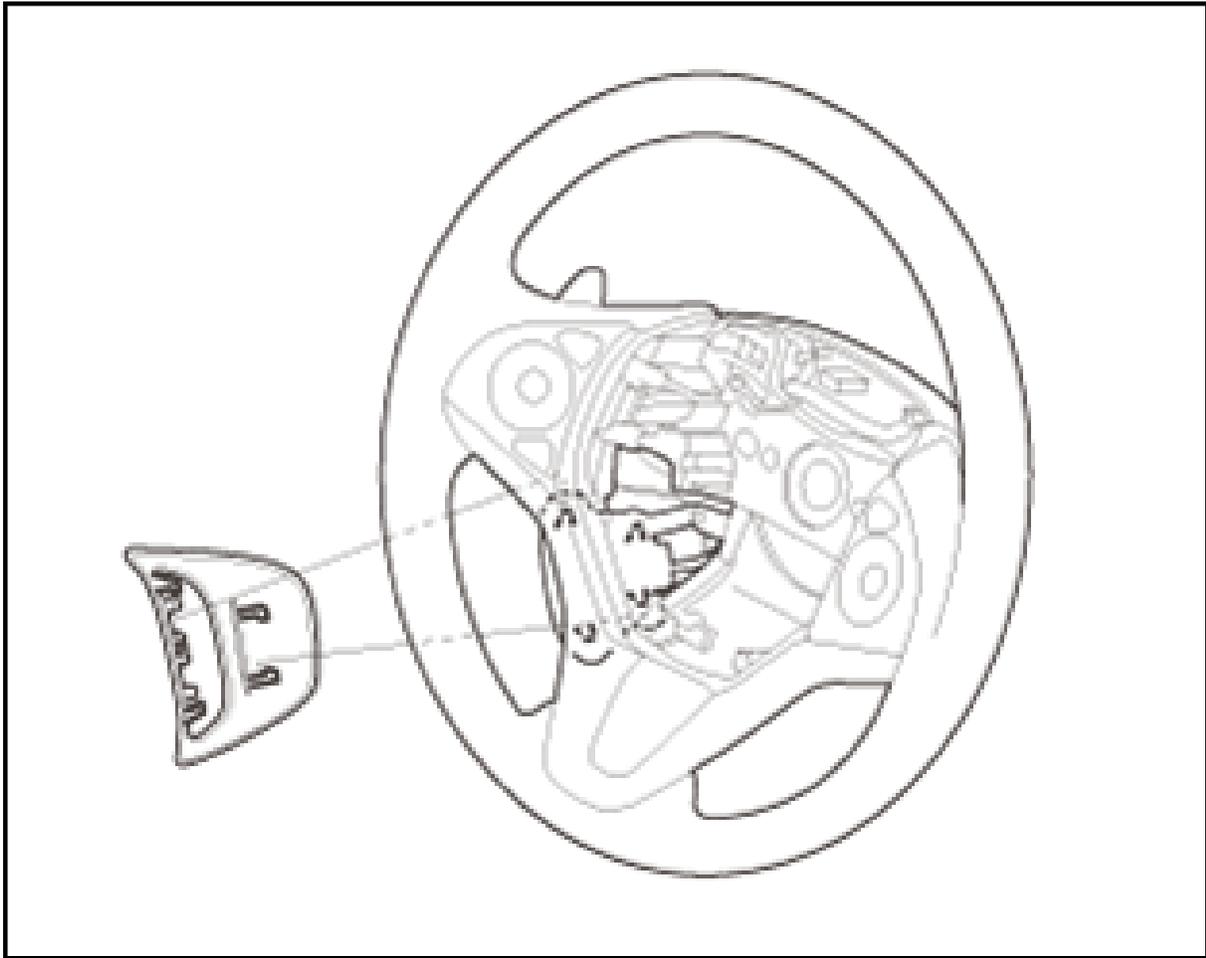
PADDLE SHIFTER REMOVAL AND INSTALLATION (CVT)

Removal and Installation

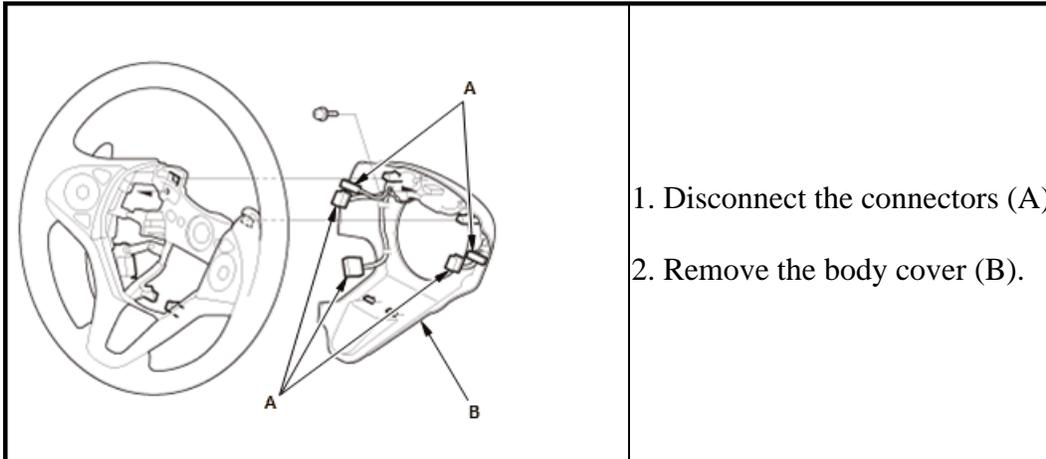
SRS components are located in this area. Review the SRS component locations - Refer to: **SRS Component Location Index (KA/KC)**, or **SRS Component Location Index (KA/KC)** and **the precautions and procedures** before doing repair or service.

Paddle Shifter + (Upshift Switch)

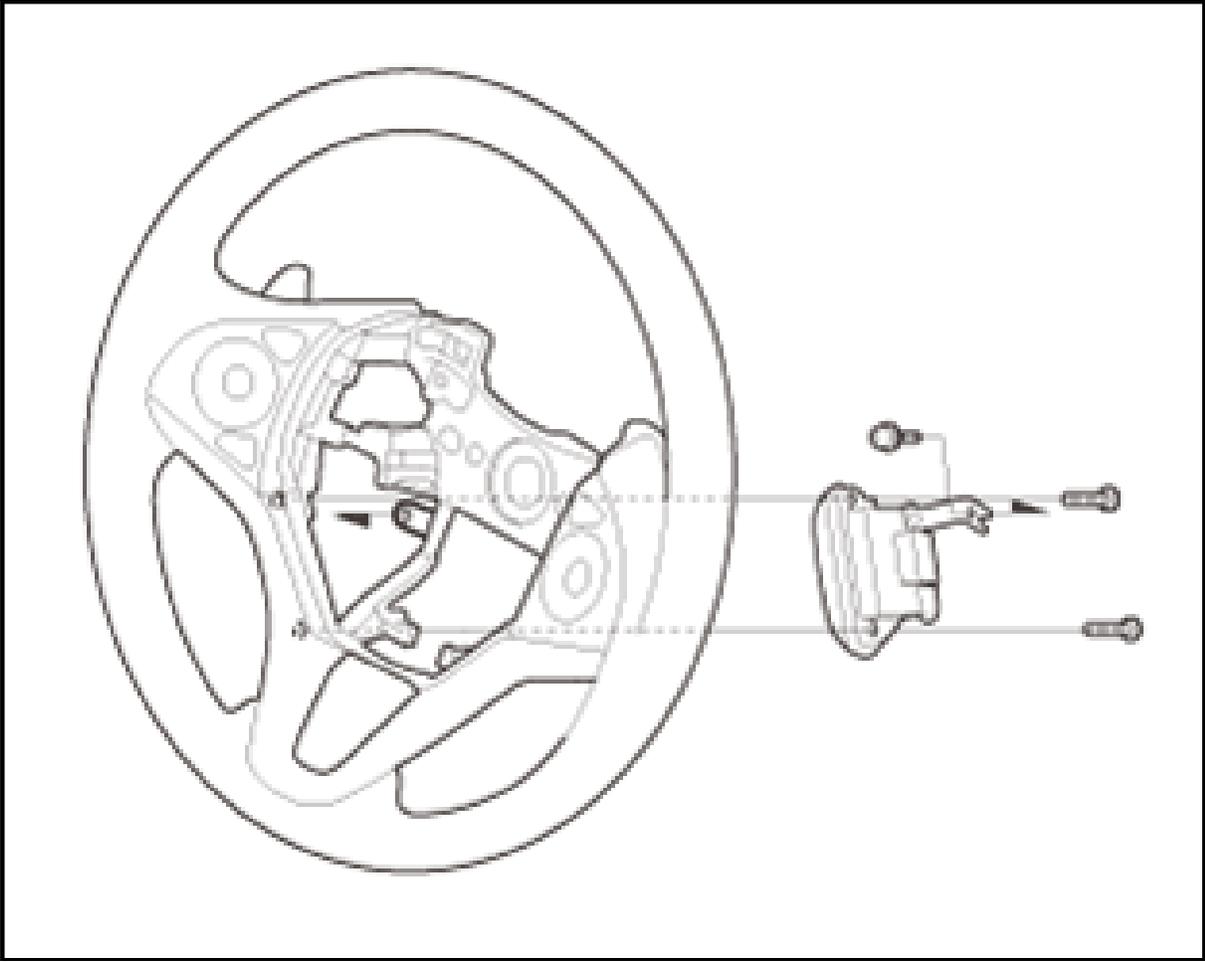
1. **Driver's Airbag - Remove**
2. **Steering Wheel - Remove**
3. Case - Remove



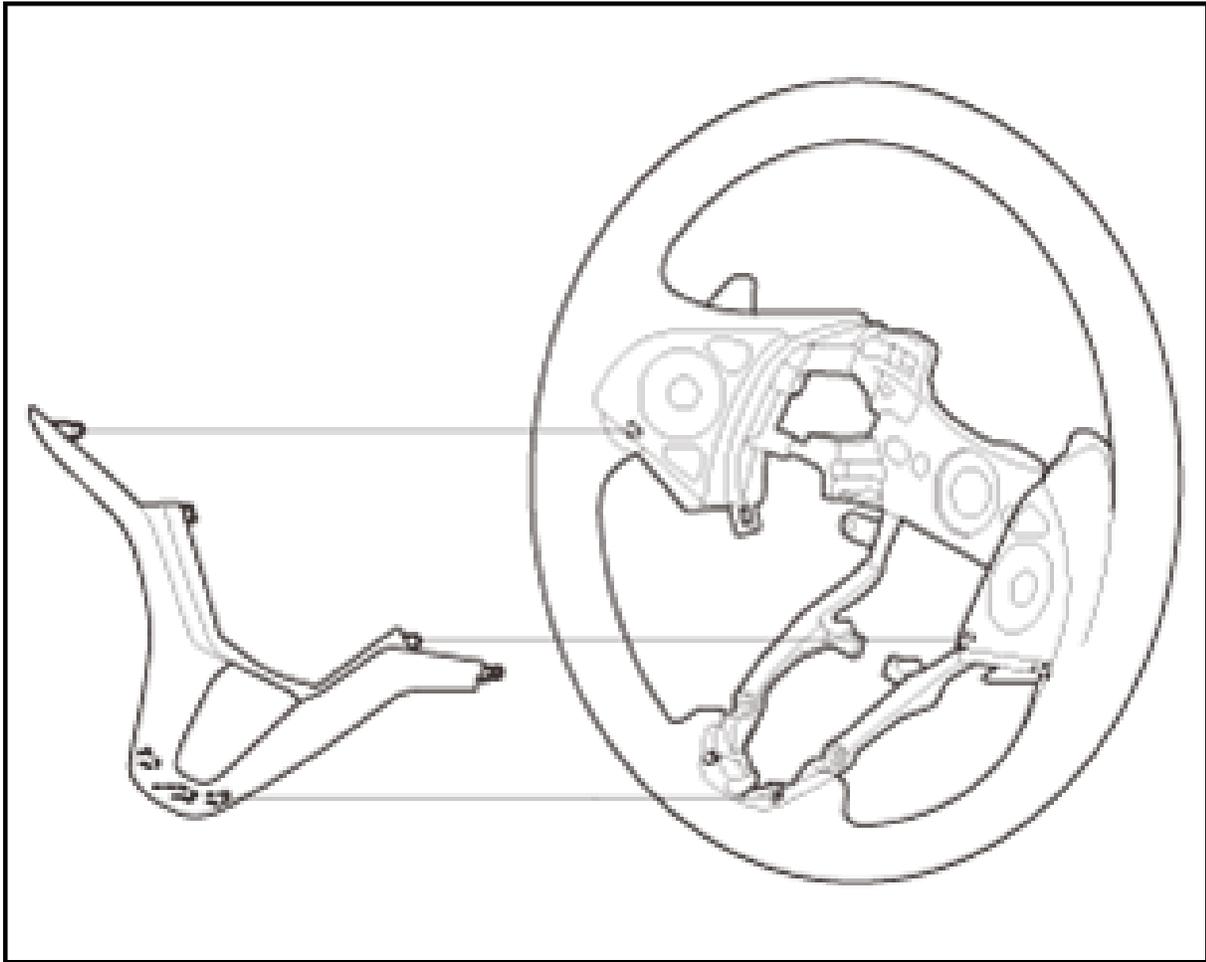
4. Body Cover - Remove



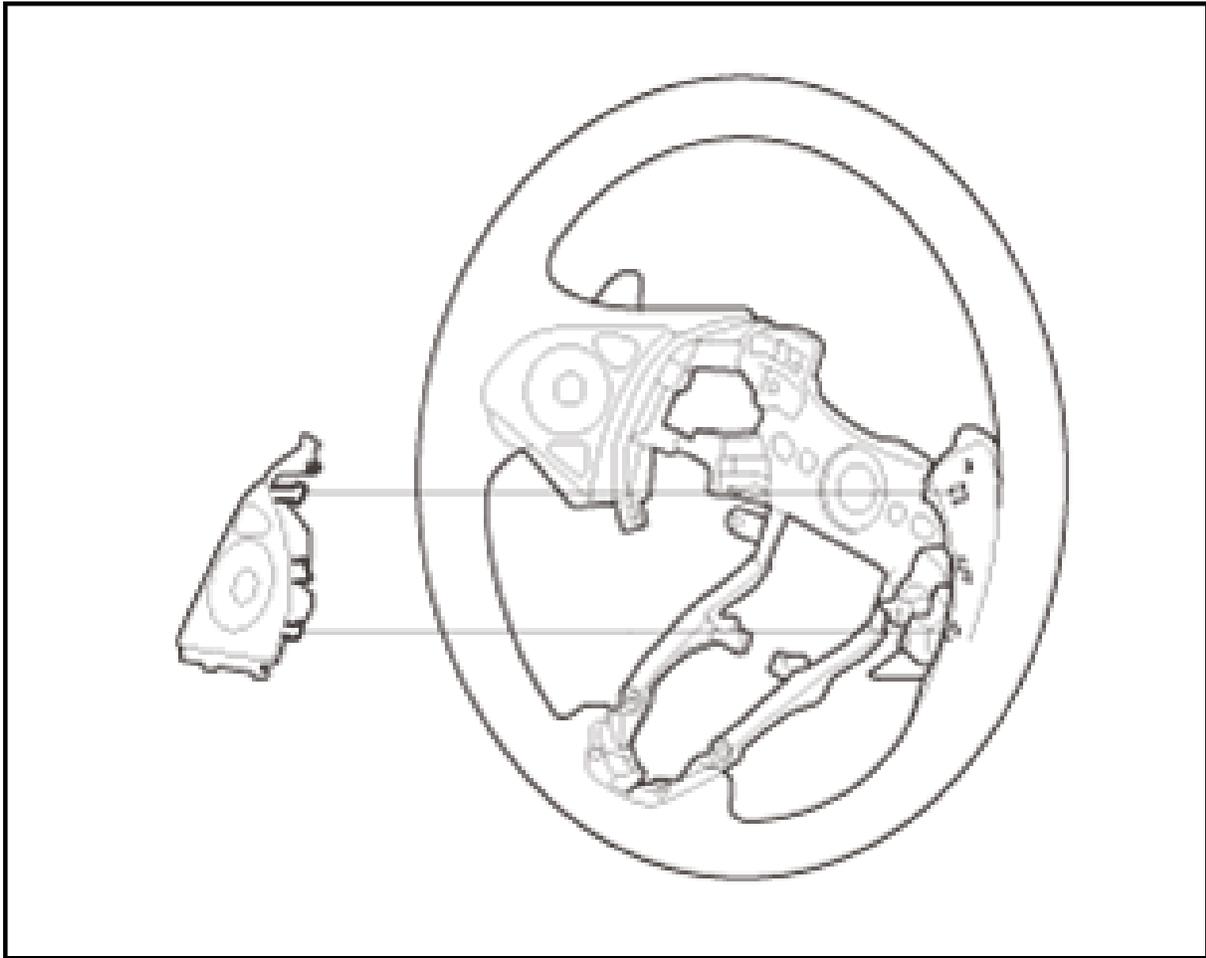
5. HFT Switch - Remove



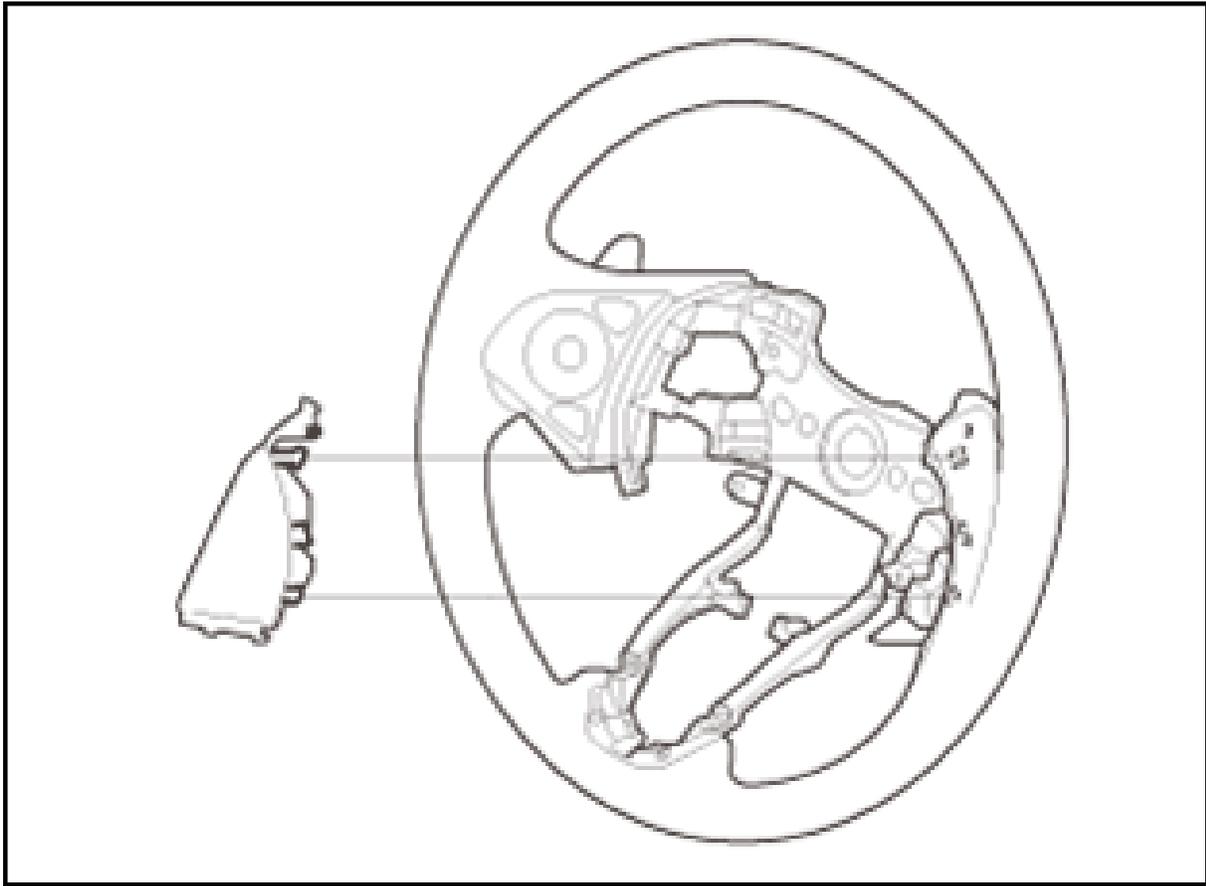
6. Lower Garnish - Remove



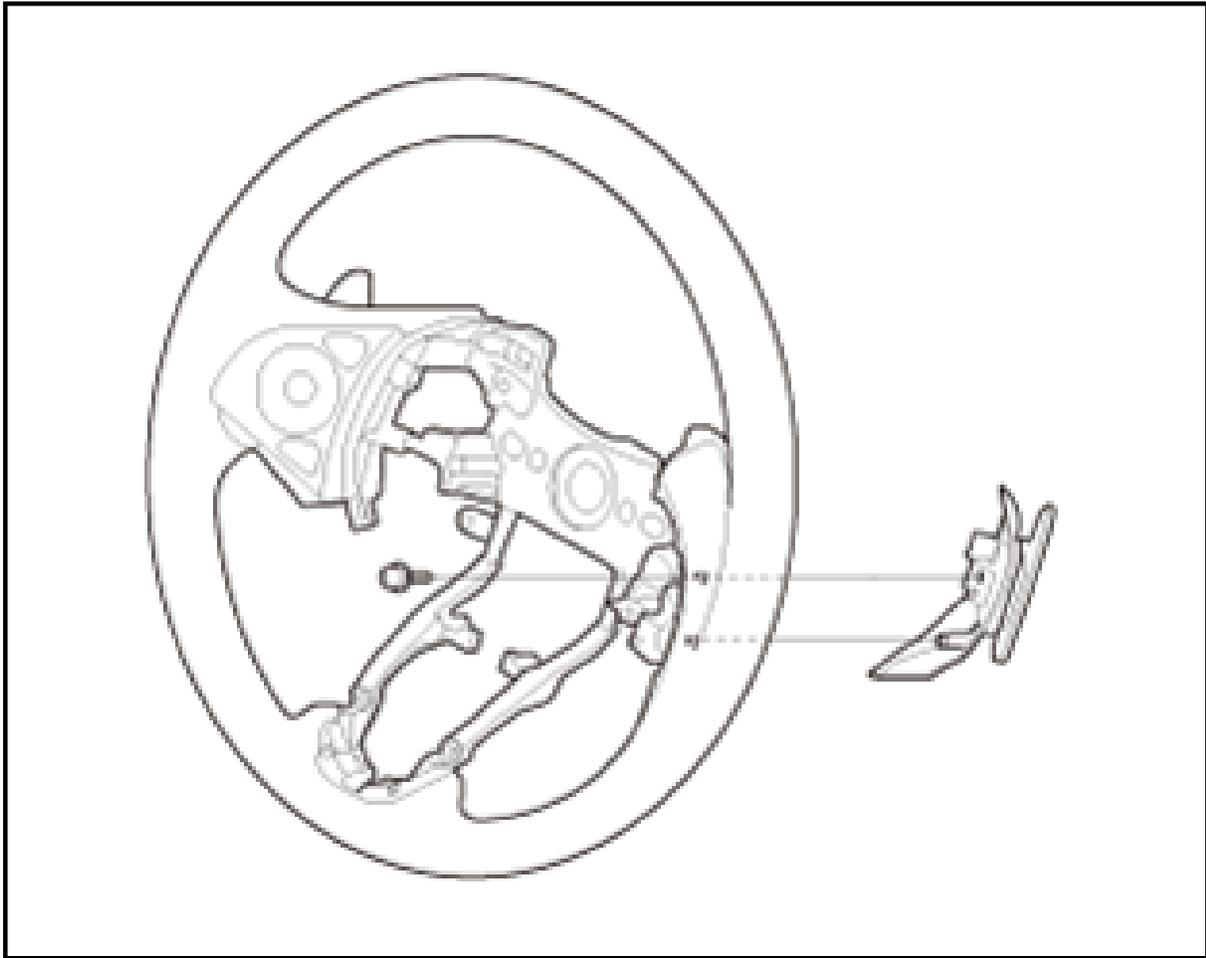
7. Cruise Control Combination Switch - Remove (With Cruise Control)



8. Garnish - Remove (Without Cruise Control)

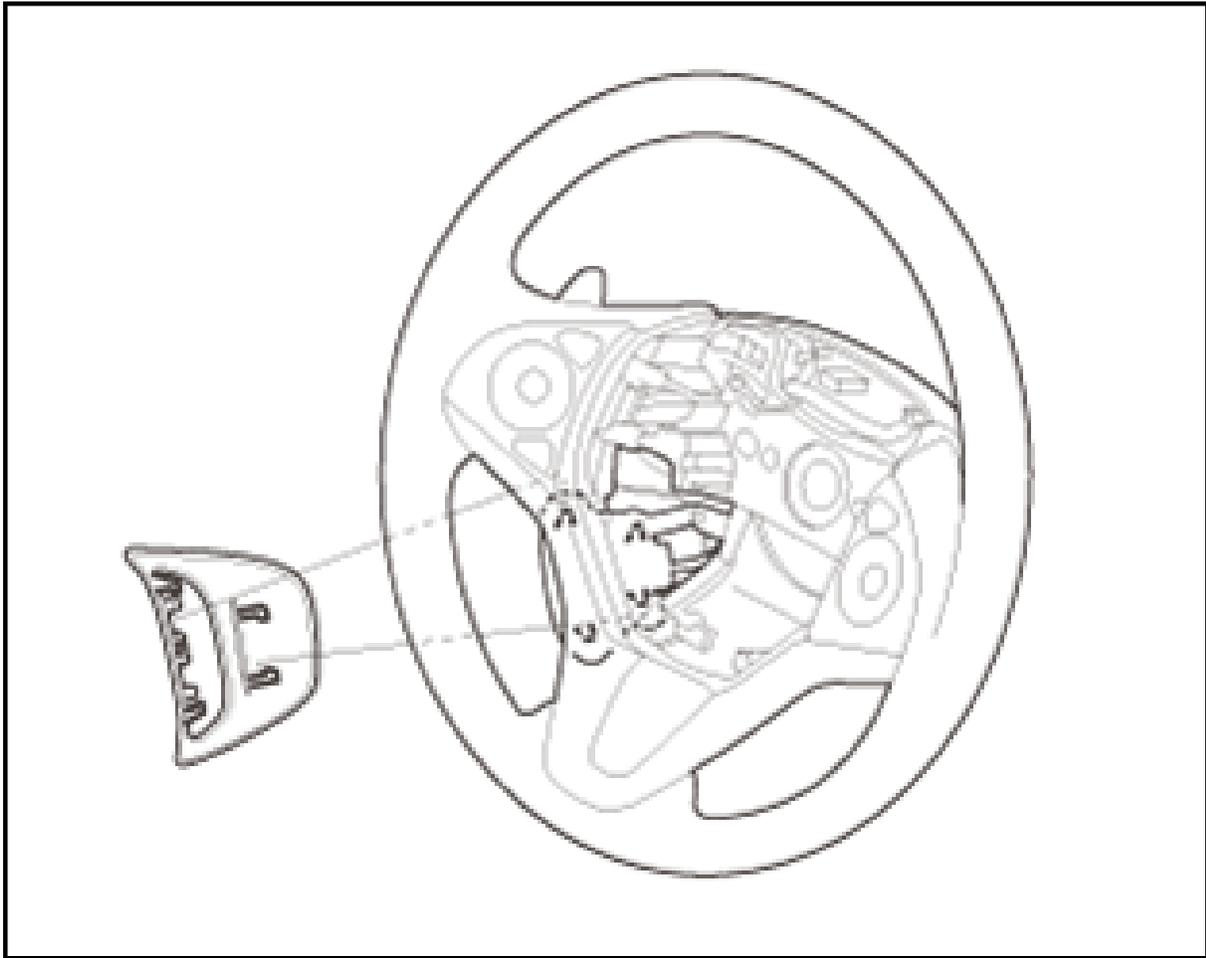


9. Paddle Shifter + (Upshift Switch) - Remove

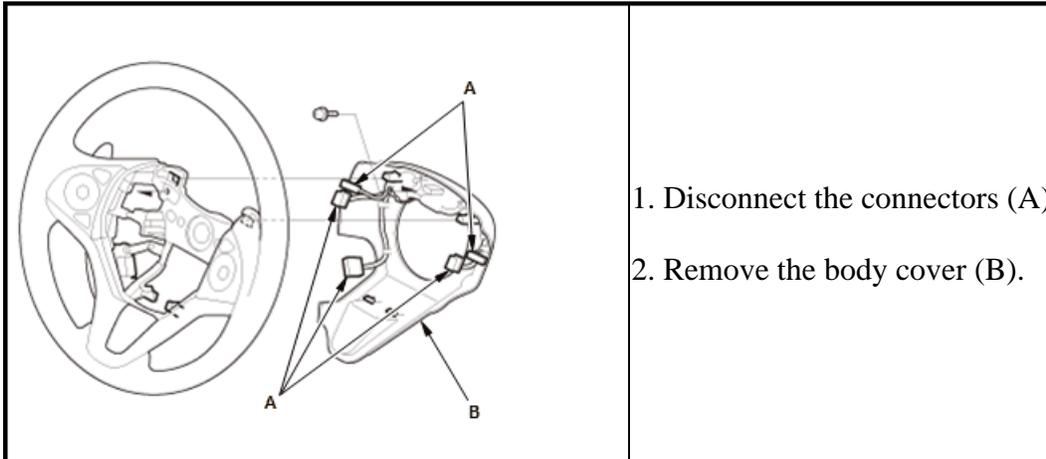


Paddle Shifter - (Downshift Switch)

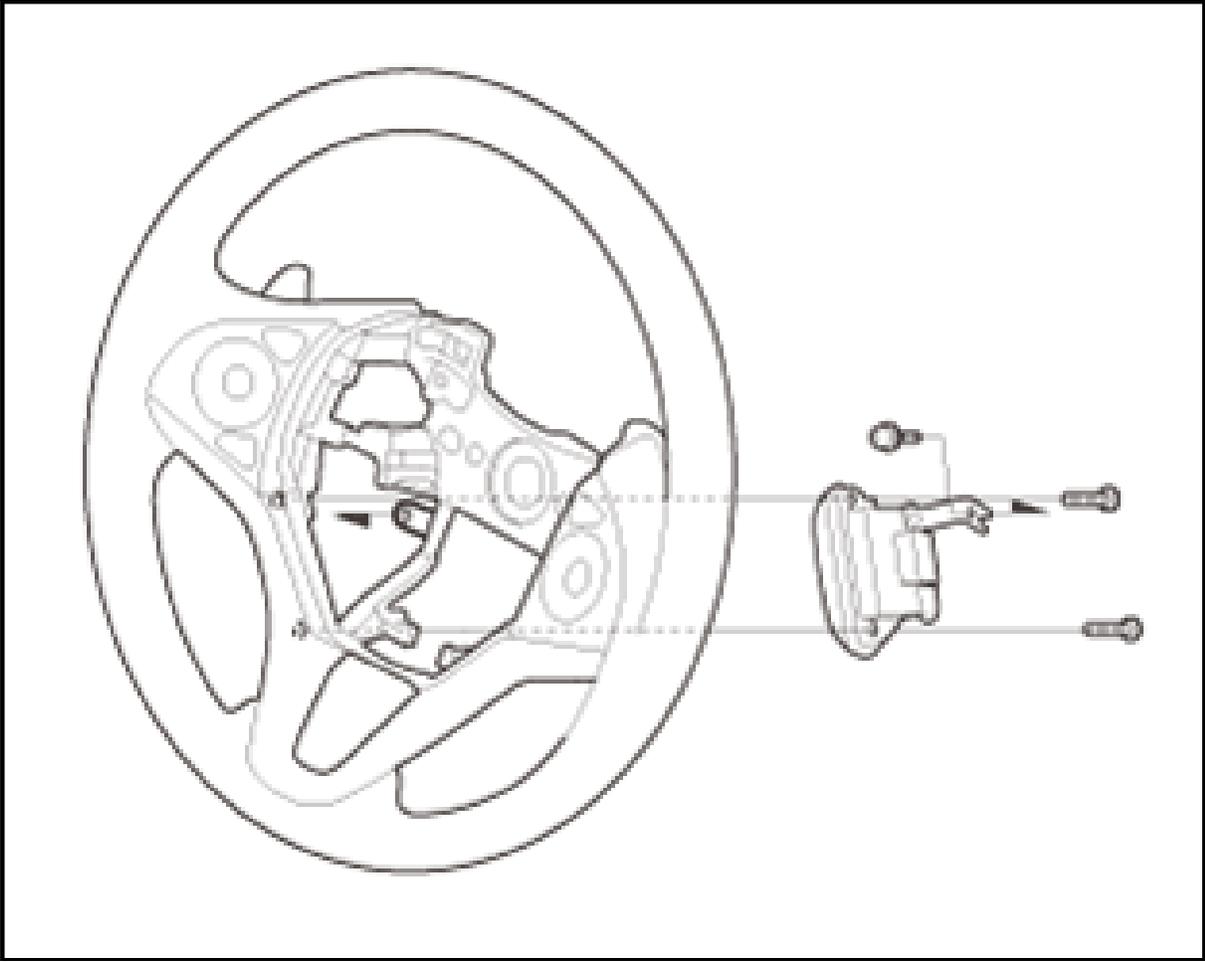
10. **Driver's Airbag - Remove**
11. **Steering Wheel - Remove**
12. Case - Remove



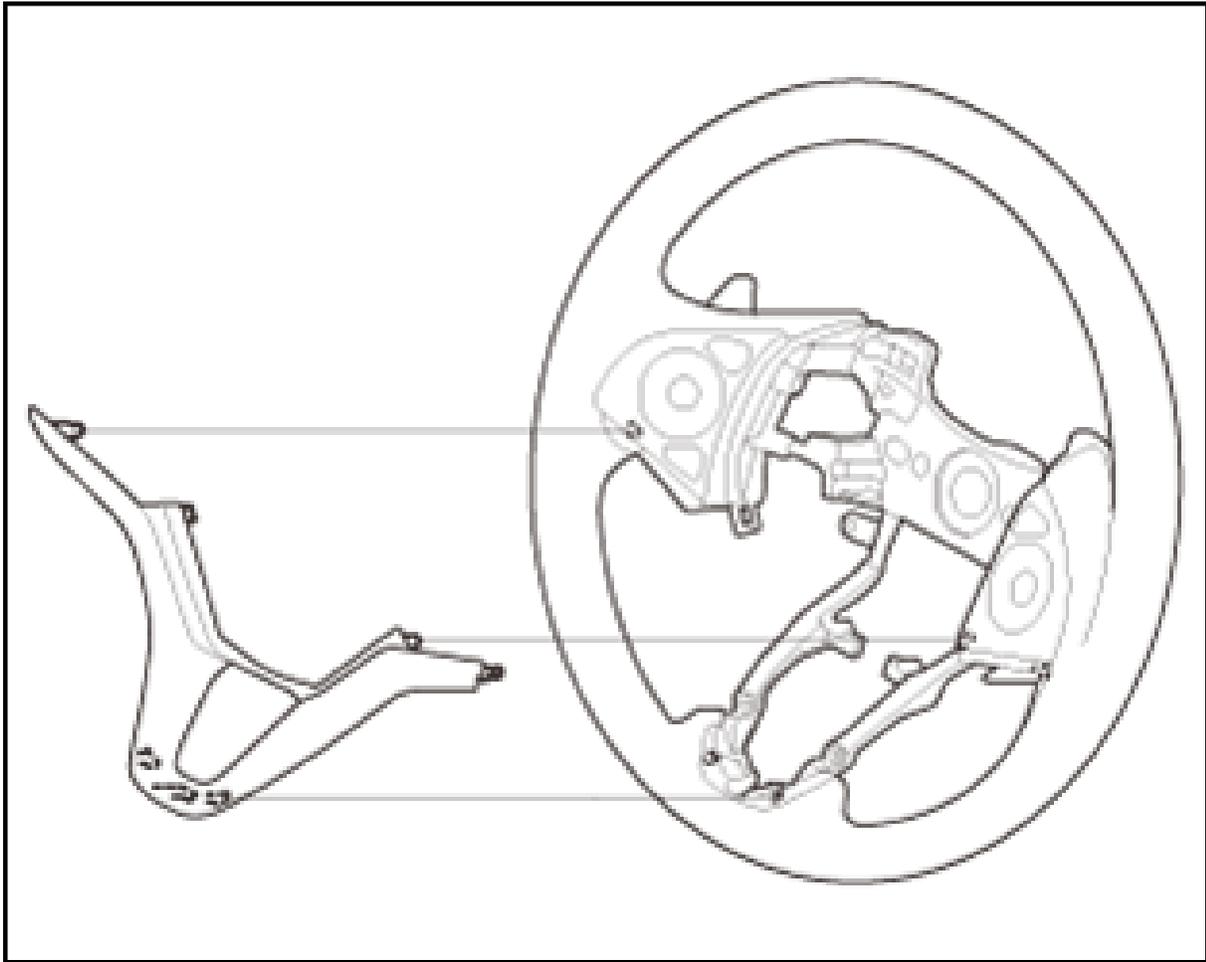
13. Body Cover - Remove



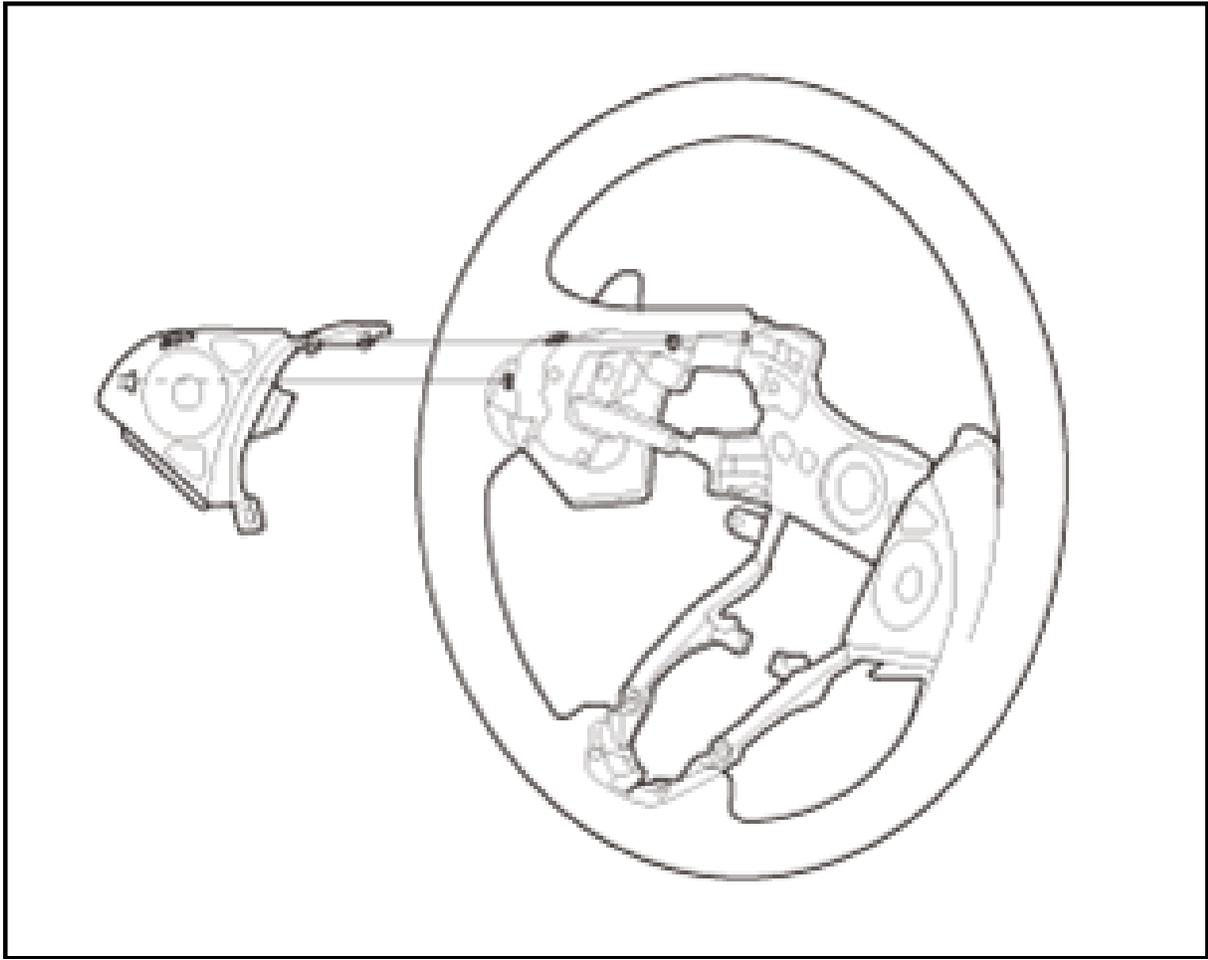
14. HFT Switch - Remove



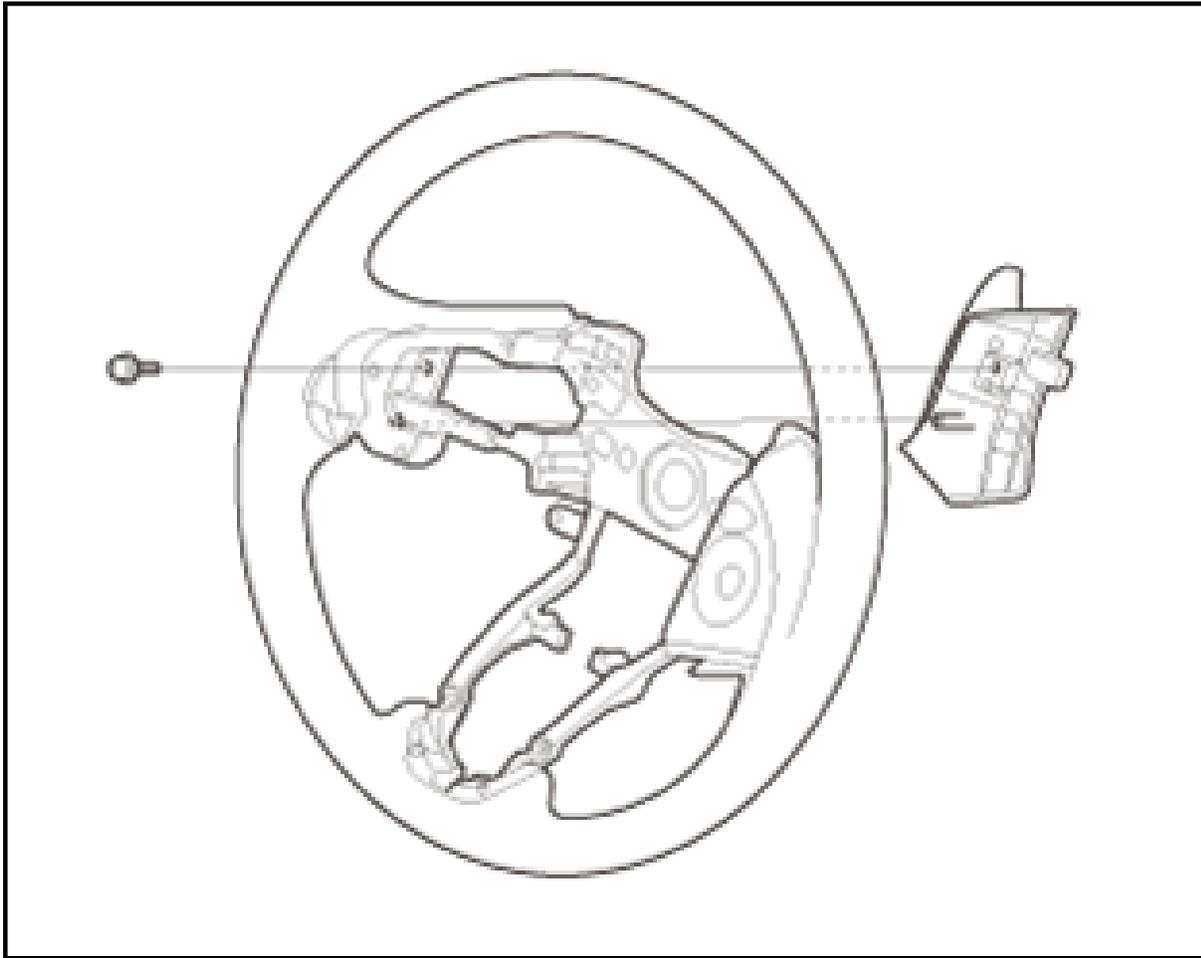
15. Lower Garnish - Remove



16. Audio Remote Switch - Remove



17. Paddle Shifter - (Downshift Switch) - Remove



18. All Removed Parts - Install

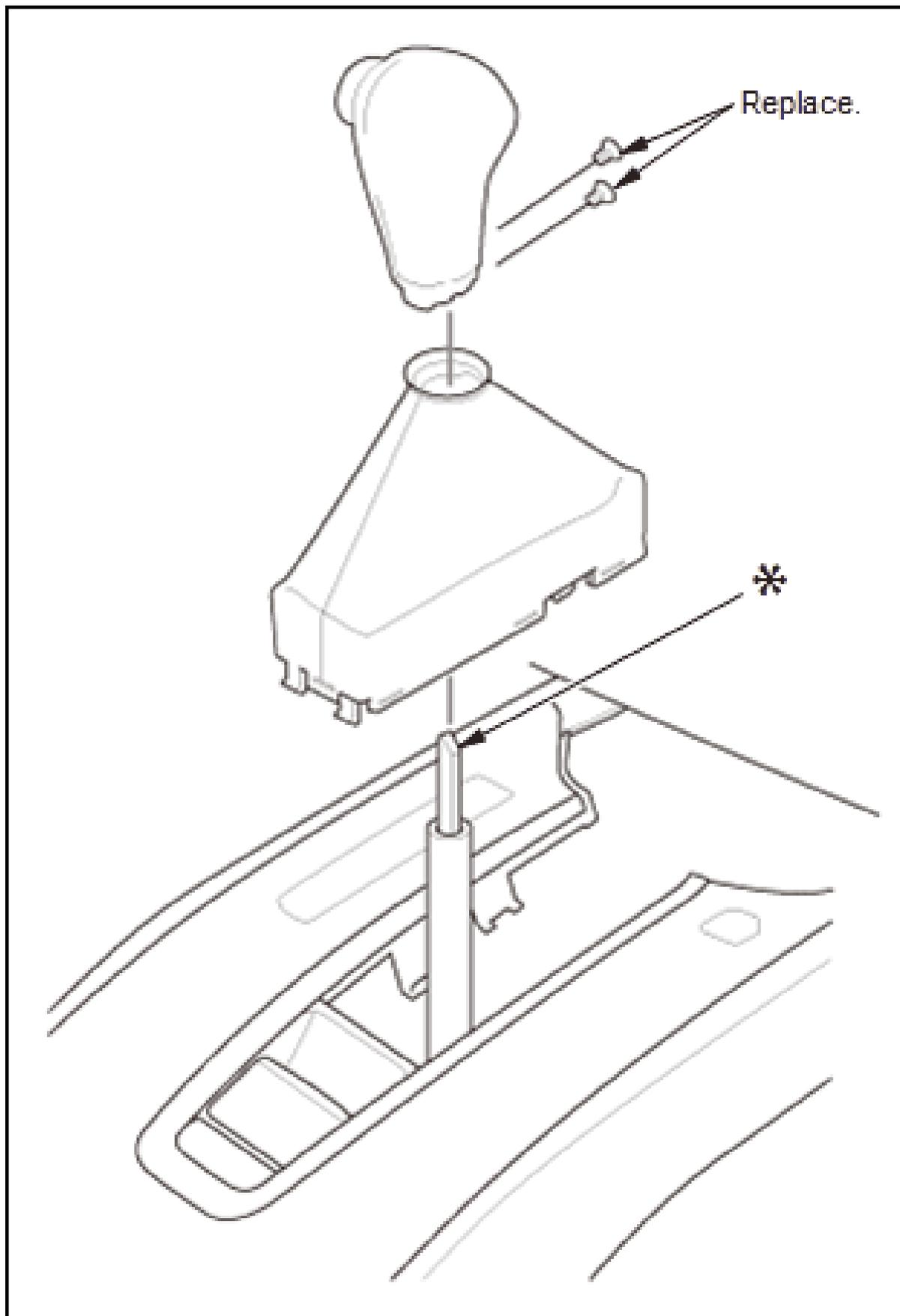
1. Install the parts in the reverse order of removal.

SHIFT CABLE REMOVAL AND INSTALLATION (CVT)

Removal

SRS components are located in this area. Review the SRS component locations - Refer to: [SRS Component Location Index \(KA/KC\)](#), or [SRS Component Location Index \(KA/KC\)](#) and [the precautions and procedures](#) before doing repair or service.

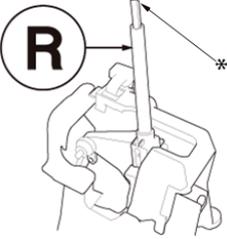
1. Shift Lever Knob / Shift Lever Boots - Remove

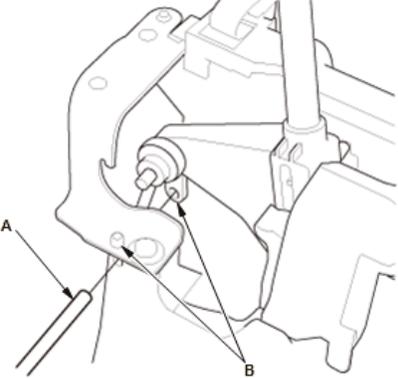


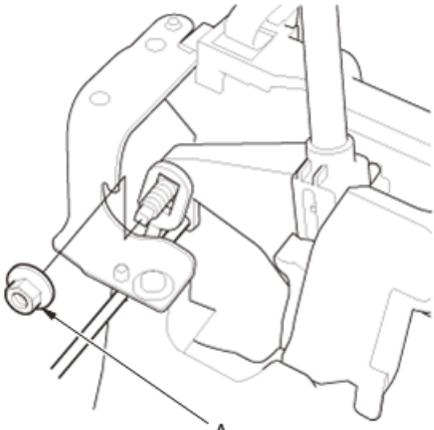
NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).

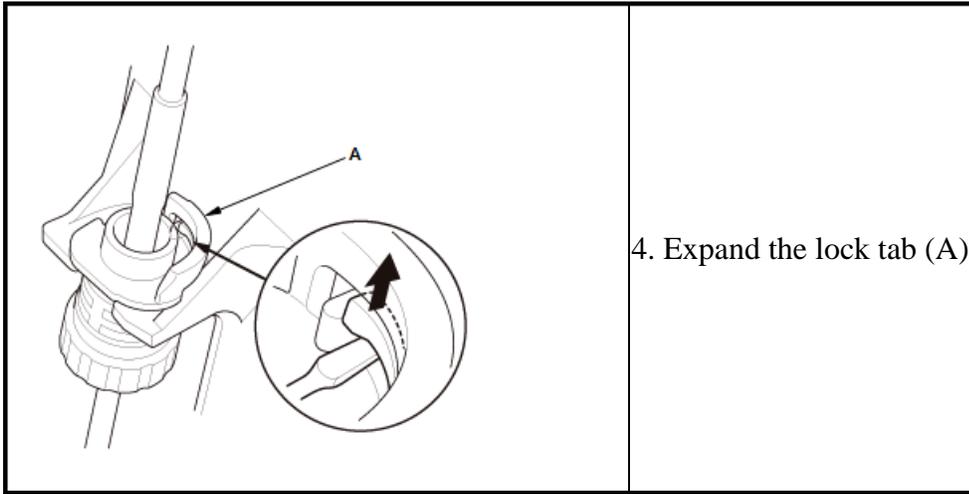
2. Center Console - Remove

3. Shift Cable (Shift Lever Side) - Remove

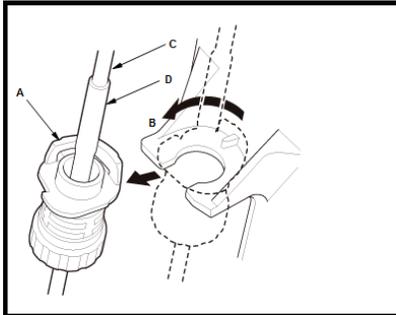
	<p>1. Shift the transmission to R position/mode.</p> <p>NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).</p>
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	<p>2. Insert a 6.0 mm (0.236 in) pin (A) into the positioning holes (B).</p> <p>NOTE: Use only a 6.0 mm (0.236 in) pin with no burrs.</p>
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	<p>3. Remove the shift cable end nut (A).</p>
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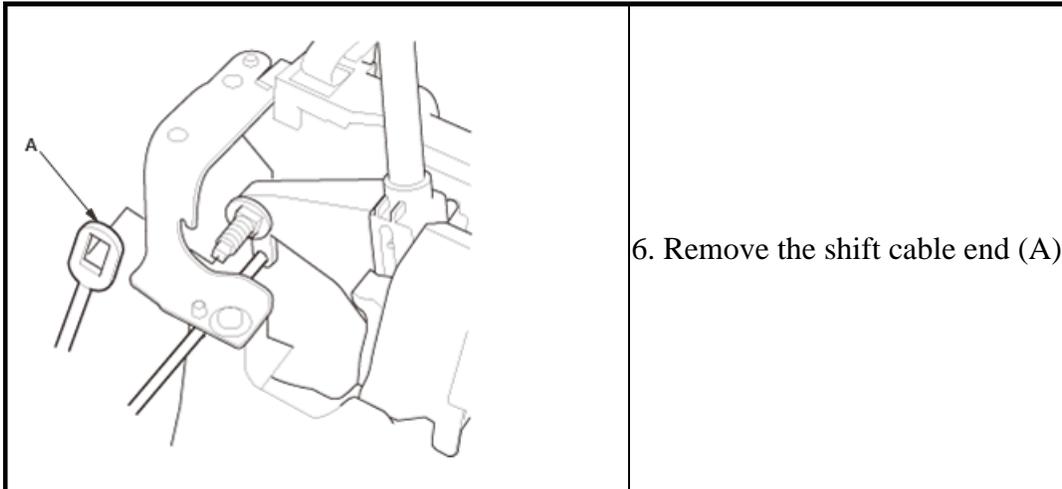


4. Expand the lock tab (A).



5. Rotate the socket holder retainer (A) counterclockwise (B) until it stops, then remove the shift cable (C).

NOTE: Do not remove the shift cable by pulling the shift cable guide (D).

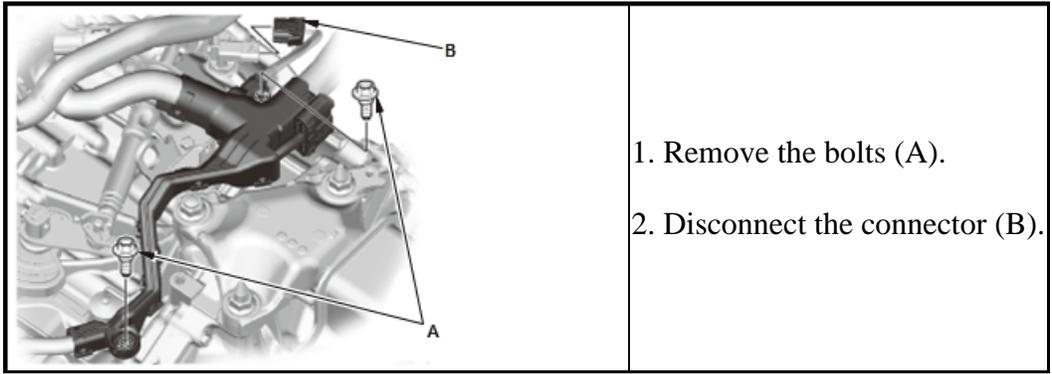


6. Remove the shift cable end (A).

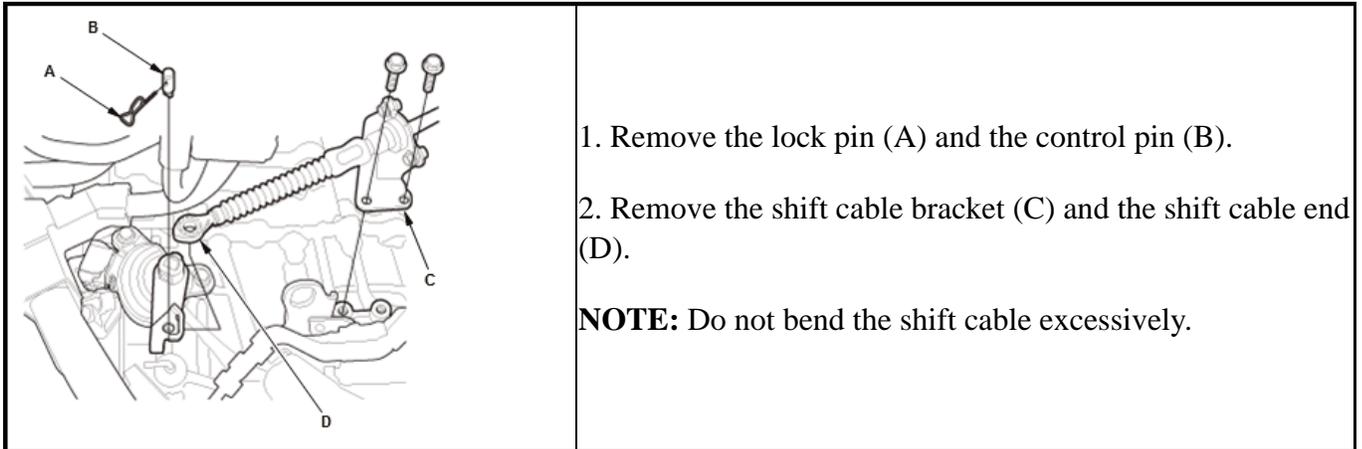
4. Front Grille Cover - Remove

5. Air Cleaner - Remove

6. Harness Cover - Remove



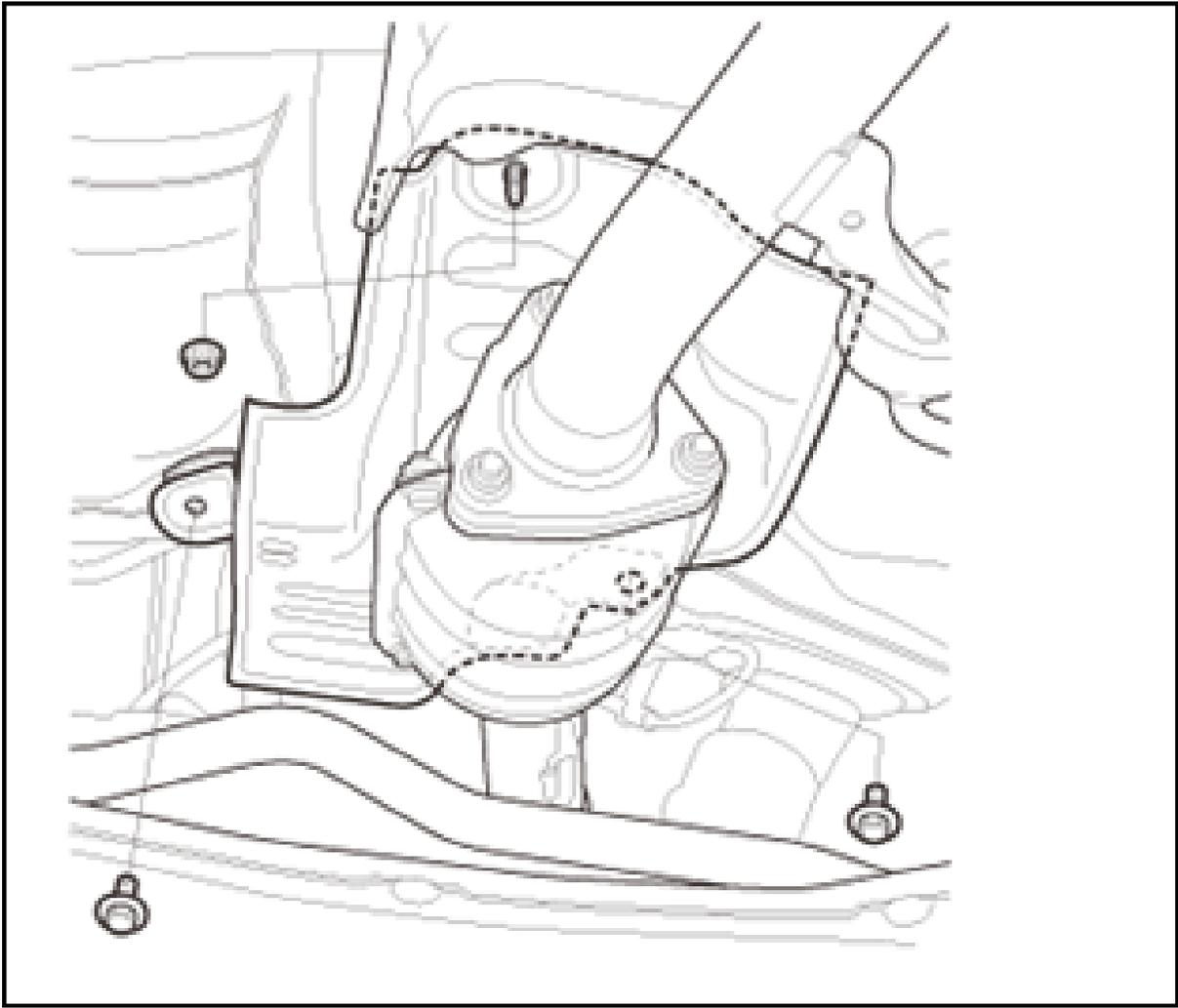
7. Shift Cable (Transmission Side) - Remove



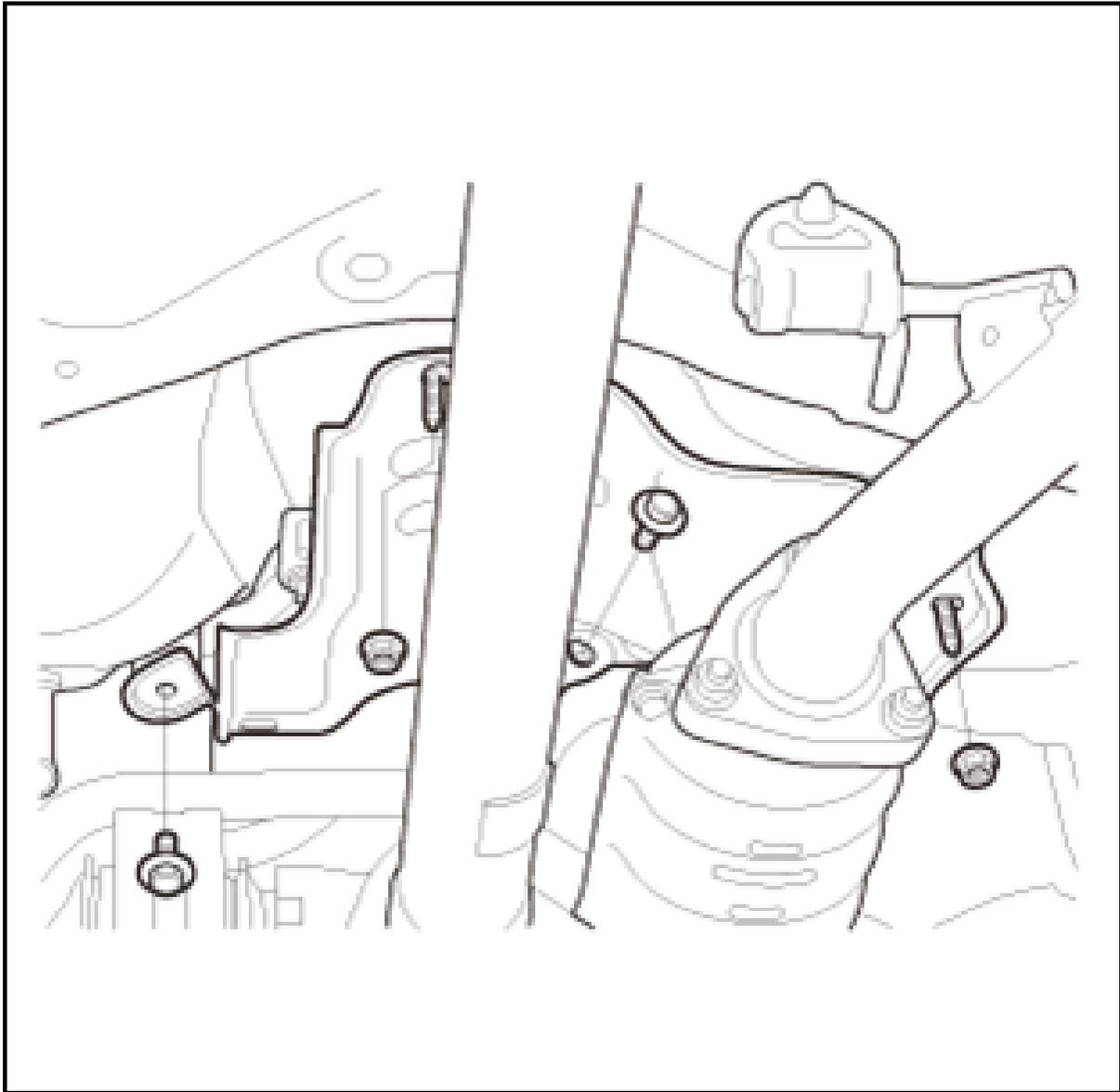
8. **Vehicle - Lift**

9. Heat Shield - Remove

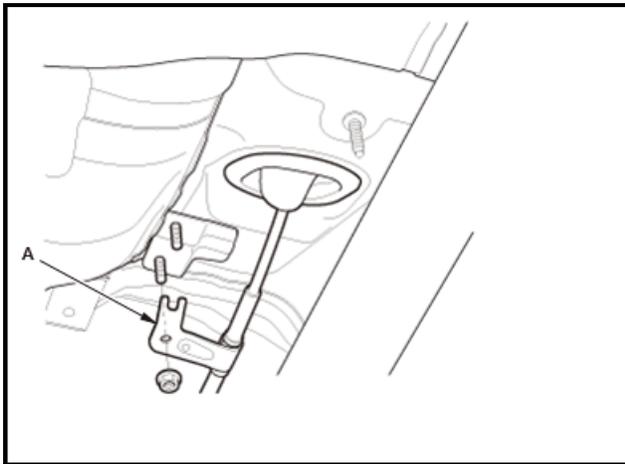
2WD



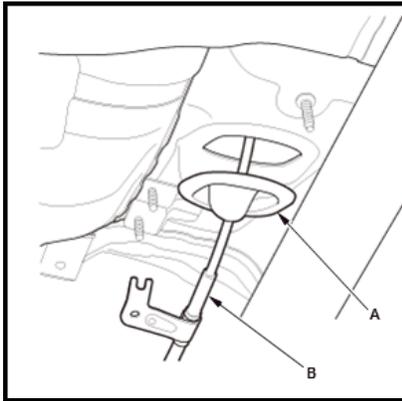
AWD



10. Shift Cable - Remove



1. Remove the shift cable bracket (A).



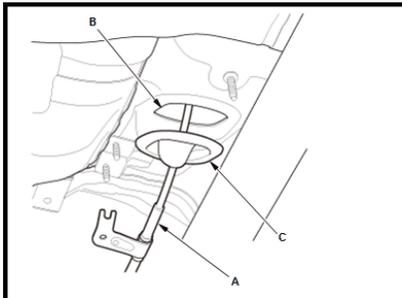
2. Remove the shift cable grommet (A), and pull out the shift cable (B).

NOTE: Do not bend the shift cable excessively.

Installation

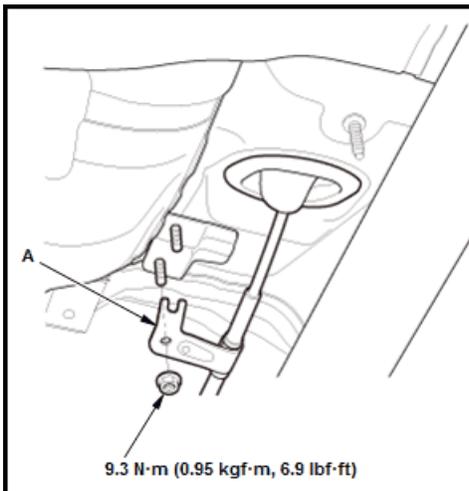
SRS components are located in this area. Review the SRS component locations - Refer to: [SRS Component Location Index \(KA/KC\)](#), or [SRS Component Location Index \(KA/KC\)](#) and [the precautions and procedures](#) before doing repair or service.

1. Shift Cable - Install



1. Insert the shift cable (A) through the grommet hole (B), and install the shift cable grommet (C) in its hole.

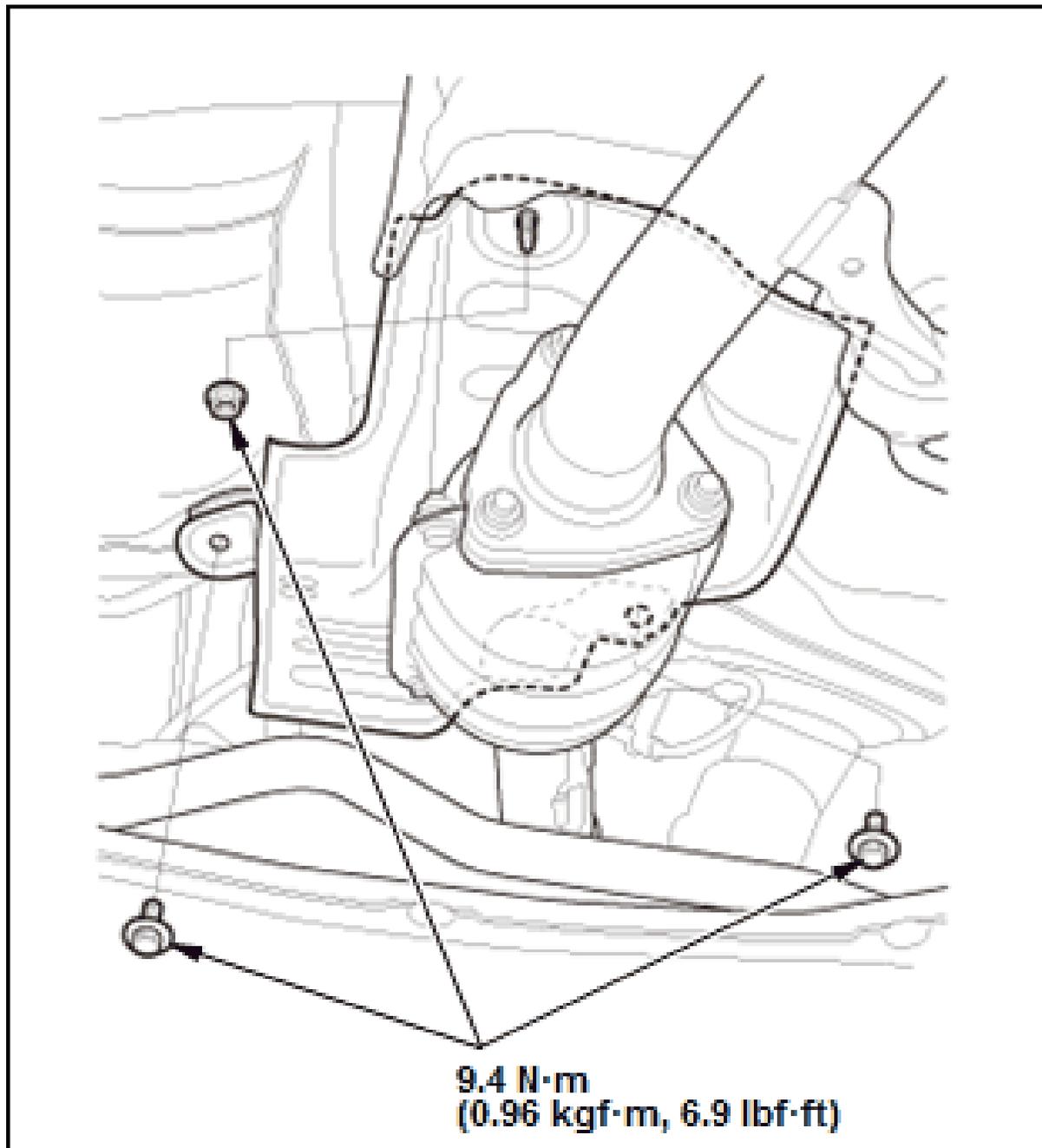
NOTE: Do not bend the shift cable excessively.



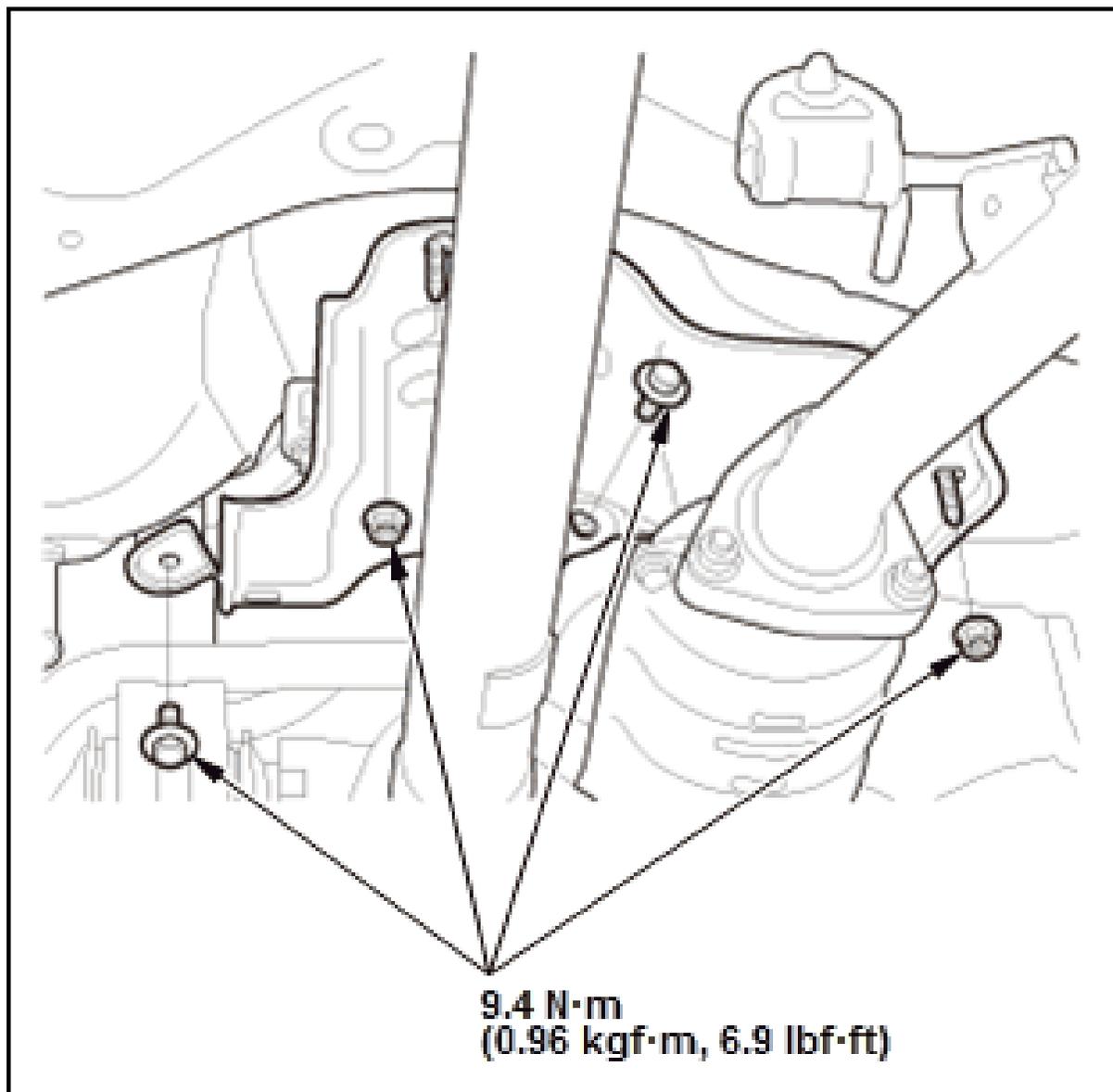
2. Install the shift cable bracket (A).

2. Heat Shield - Install

2WD



AWD



3. Shift Cable (Transmission Side) - Install

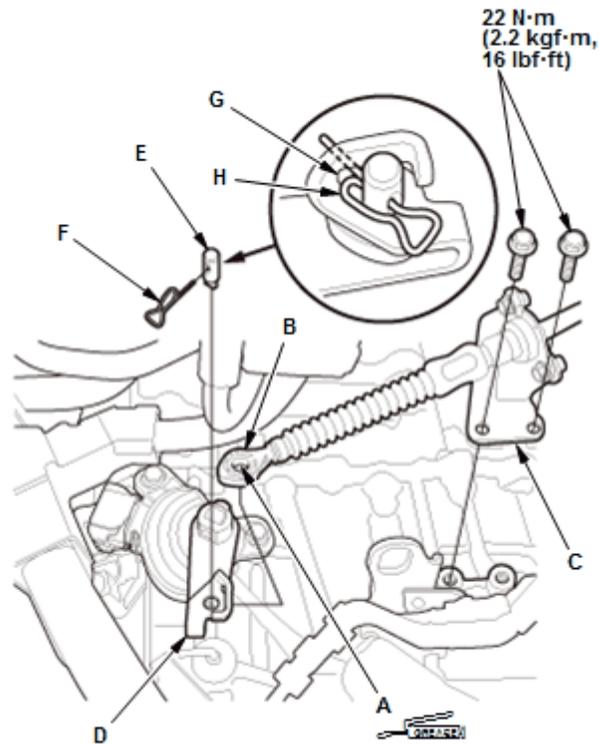


Fig. 21: Shift Cable (Transmission Side) With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

1. Apply molybdenum grease to the inner surface of the hole (A) in the shift cable end (B).
2. Install the shift cable bracket (C) while installing the shift cable end to the control lever (D).

NOTE: Do not bend the shift cable excessively.

3. Install the control pin (E).
4. Insert the lock pin (F) in the direction shown through the control pin hole and out the opening (G) of the control lever so that the hooked end (H) of the lock pin locks into the control pin hole.

4. Harness Cover - Install

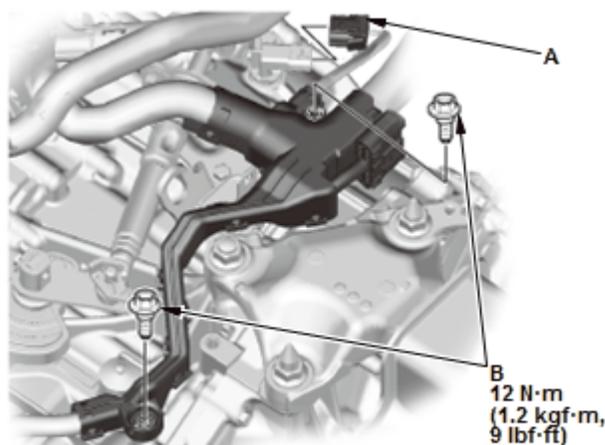


Fig. 22: Harness Cover With Torque Specifications

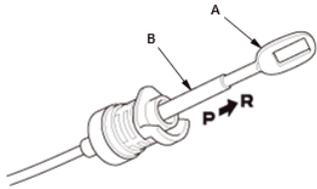
Courtesy of HONDA, U.S.A., INC.

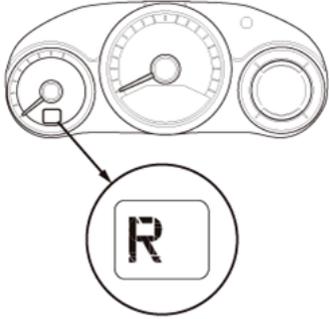
A	1. Connect the connector (A).
	2. Install the bolts (B).

5. **Air Cleaner - Install**

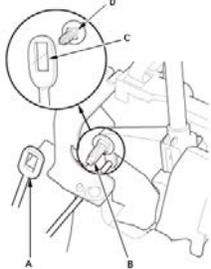
6. **Front Grille Cover - Install**

7. Shift Cable - Adjust

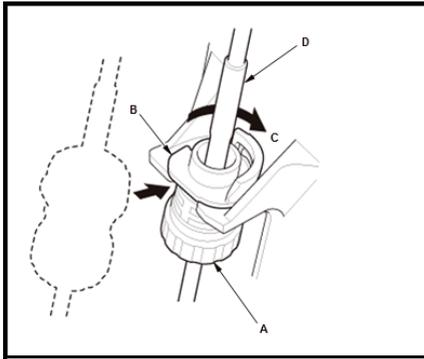
	<p>1. Push the shift cable (A) until it stops, then release it.</p> <p>NOTE: Do not hold the shift cable guide (B) to adjust the shift cable.</p> <p>2. Pull the shift cable back one step from the P position so that the shift position is in R.</p>
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	<p>3. Turn the vehicle to the ON mode.</p> <p>4. Check that the R indicator comes on.</p> <p>5. Turn the vehicle to the OFF (LOCK) mode or the ACCESSORY mode.</p>
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8. Shift Cable (Shift Lever Side) - Install

	<p>1. Install the shift cable end (A) over the mounting stud (B) by aligning its square hole (C) with the square fitting (D) at the bottom of the stud.</p>
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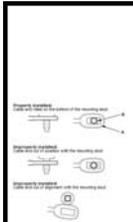
cardiagn.com



2. Install the socket holder (A), then rotate the socket holder retainer (B) clockwise (C) until it stops.

NOTE:

- Do not install the shift cable by holding the shift cable guide (D).



3. Make sure that the shift cable end (A) is properly installed on the mounting stud (B).

- If the cable end is out of position with the mounting stud, remove the shift cable from the shift cable bracket, then reinstall the cable end over the mounting stud before reinstalling the shift cable to the shift cable bracket. Do not install the shift cable end on the mounting stud with the shift cable installed on the shift cable bracket.
- If the shift cable end does not ride at the bottom of the mounting stud, rotate the stud to align the square fitting with the hole.

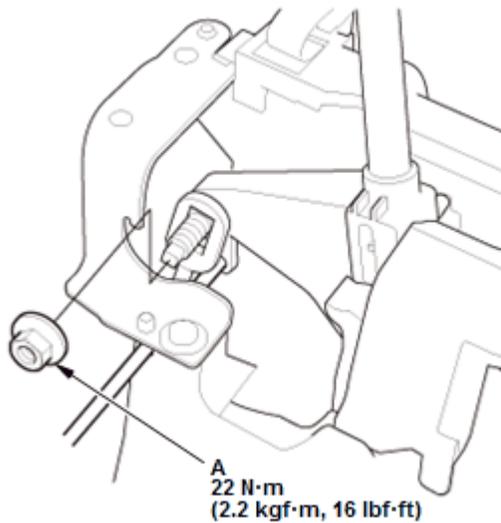
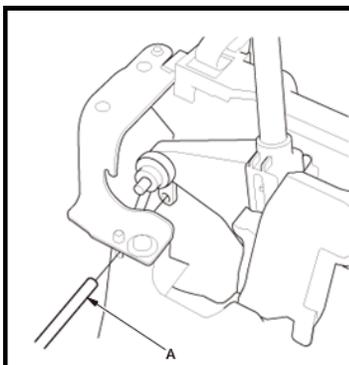


Fig. 23: Shift Cable End Nut With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

4. Install the shift cable end nut (A).



5. Remove the 6.0 mm (0.236 in) pin (A) that was installed to hold the shift lever.

9. Center Console - Install

10. Shift Cable - After Install Check

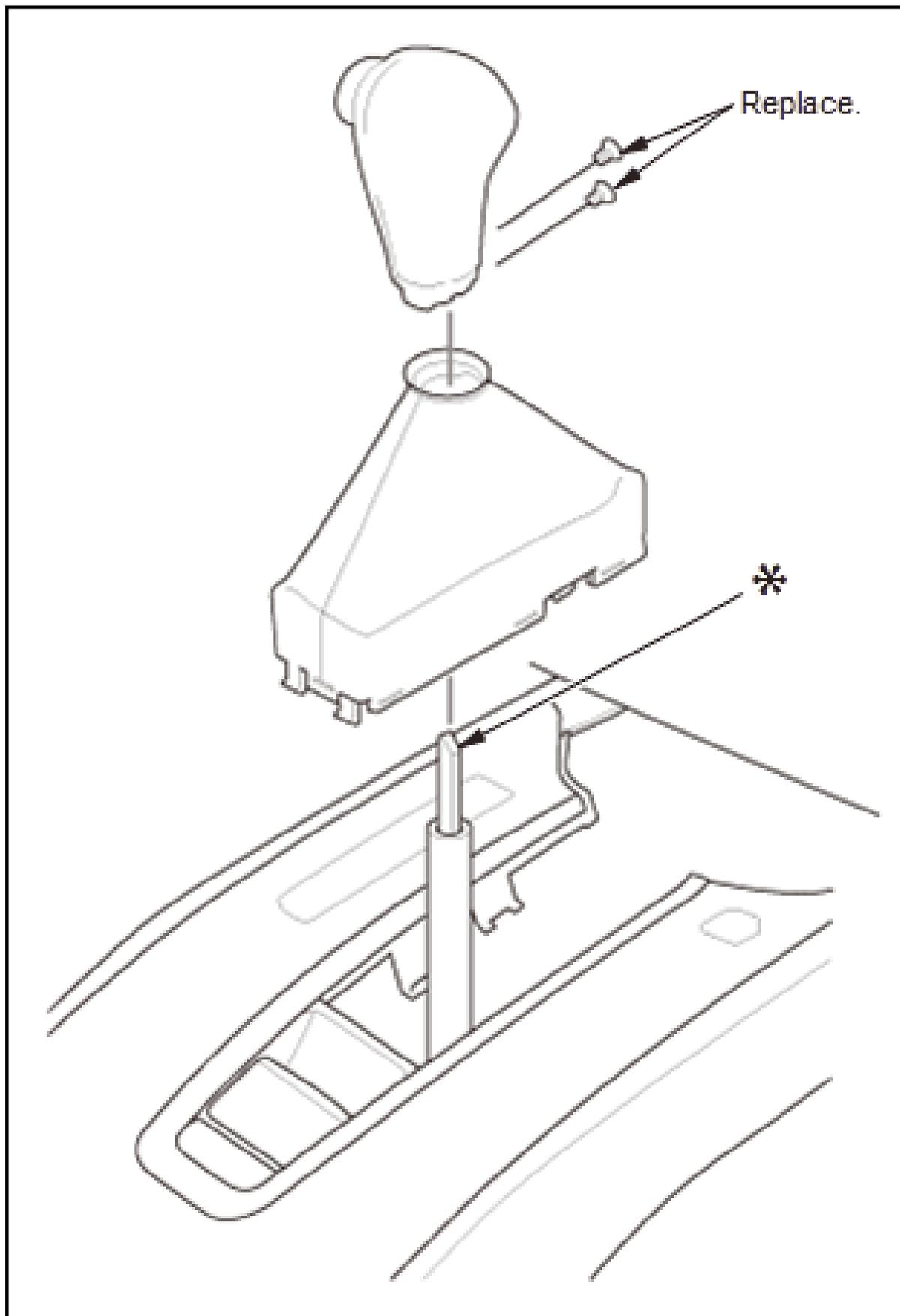
Â	<ol style="list-style-type: none">1. Start the engine. <p>NOTE: Check that the engine starts in P or N position/mode, and does not start in any other positions / modes.</p> <ol style="list-style-type: none">2. Check the shift lever operation.3. Move the shift lever through all positions / modes, and verify the transmission range switch matches with the A/T gear position indicator.4. Check that the back-up lights come on when the transmission is in R position/mode.5. Shift the transmission to P position/mode.6. Check that the shift lock works properly. Push the shift lock release, and check that the shift lever releases, and also check that the shift lever locks when it is shifted back to P position/mode.7. Make sure the vehicle is turned to the OFF (LOCK) mode with the shift lever is in P position/mode. If it does not, <u>adjust the shift cable</u> .
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SHIFT LEVER REMOVAL AND INSTALLATION (CVT)

Removal

SRS components are located in this area. Review the SRS component locations - Refer to: **SRS Component Location Index (KA/KC)**, or **SRS Component Location Index (KA/KC)** and **the precautions and procedures** before doing repair or service.

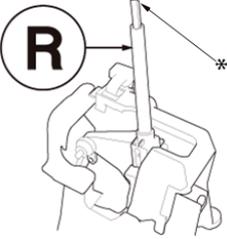
1. Shift Lever Knob / Shift Lever Boots - Remove

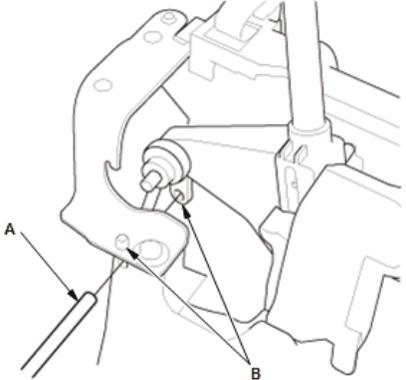


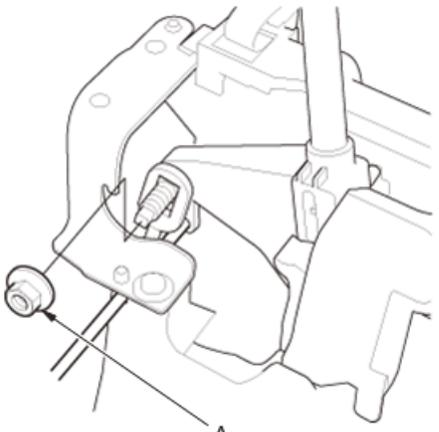
NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).

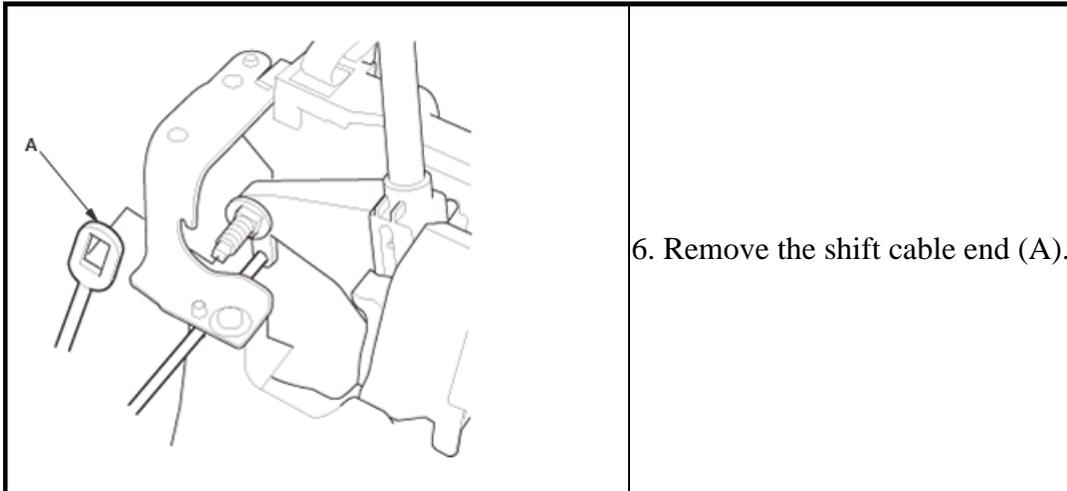
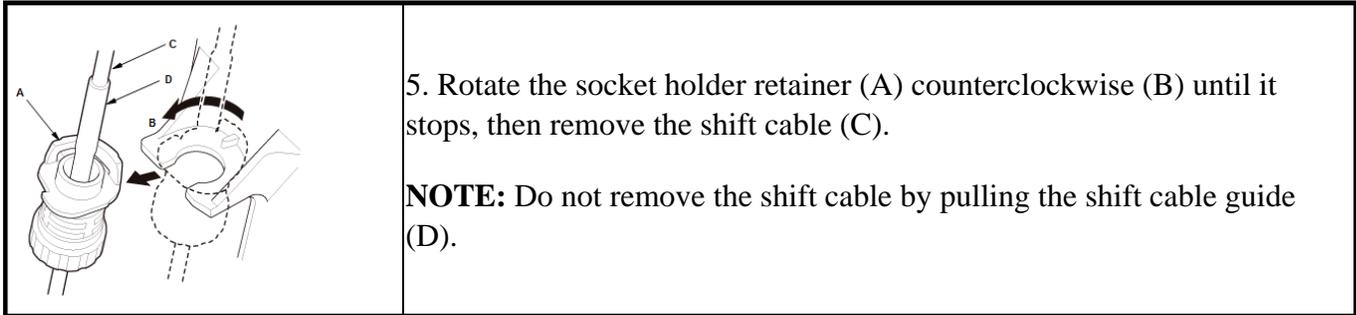
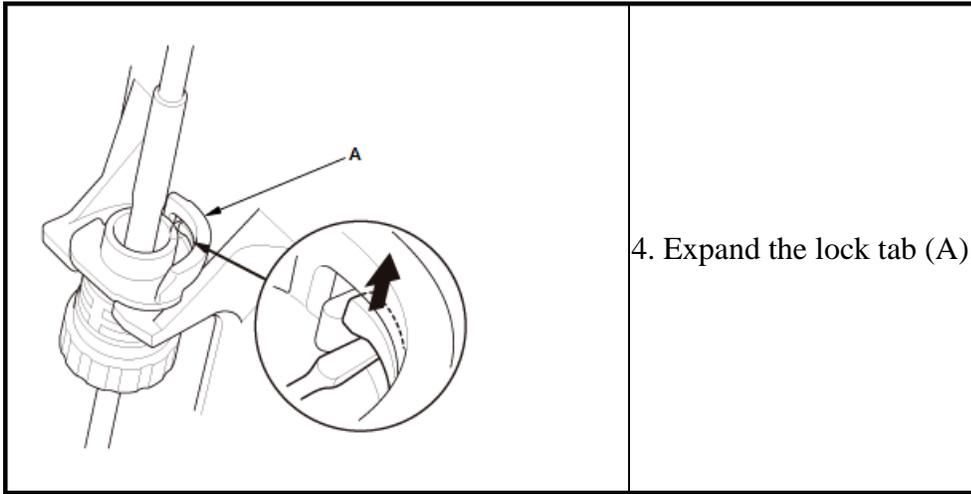
2. Center Console - Remove

3. Shift Cable (Shift Lever Side) - Remove

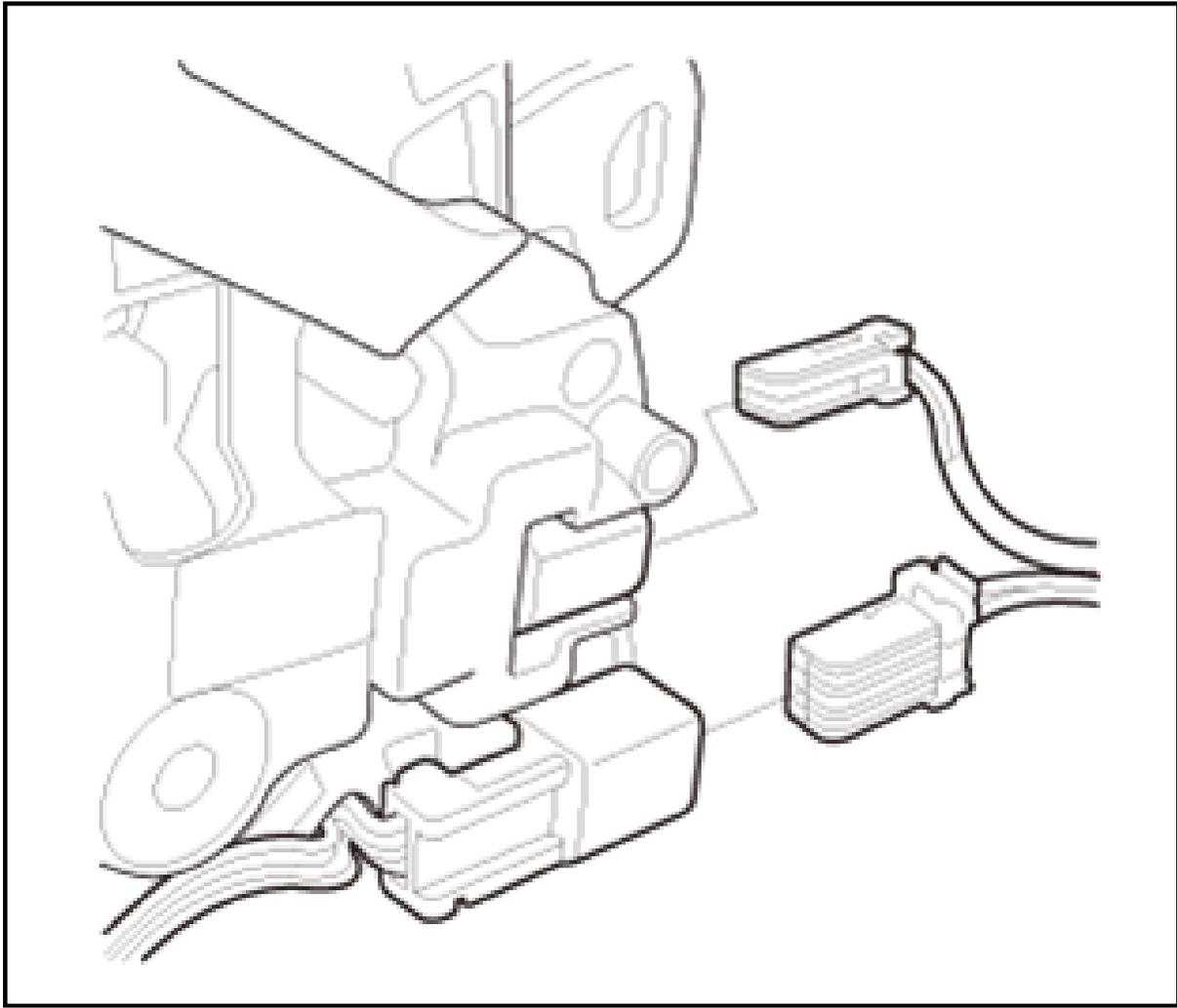
	<p>1. Shift the transmission to R position/mode.</p> <p>NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).</p>
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	<p>2. Insert a 6.0 mm (0.236 in) pin (A) into the positioning holes (B).</p> <p>NOTE: Use only a 6.0 mm (0.236 in) pin with no burrs.</p>
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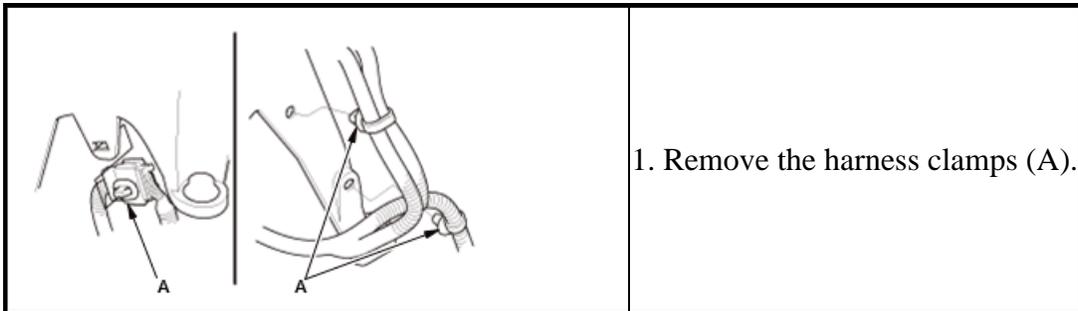
	<p>3. Remove the shift cable end nut (A).</p>
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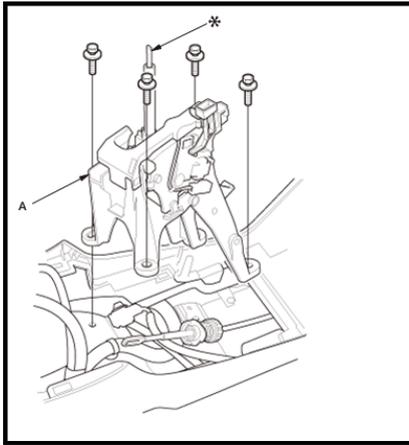


4. Connector - Disconnect



5. Shift Lever Assembly - Remove





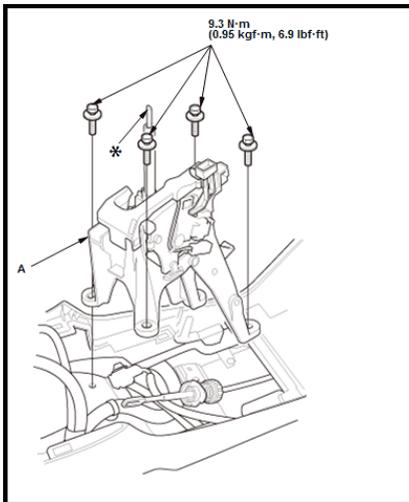
2. Remove the shift lever assembly (A).

NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).

Installation

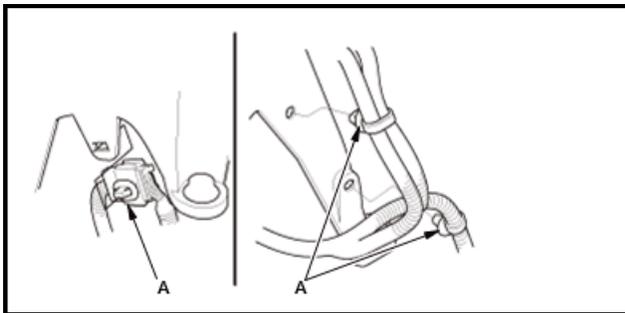
SRS components are located in this area. Review the SRS component locations - Refer to: [SRS Component Location Index \(KA/KC\)](#), or [SRS Component Location Index \(KA/KC\)](#) and [the precautions and procedures](#) before doing repair or service.

1. Shift Lever Assembly - Install



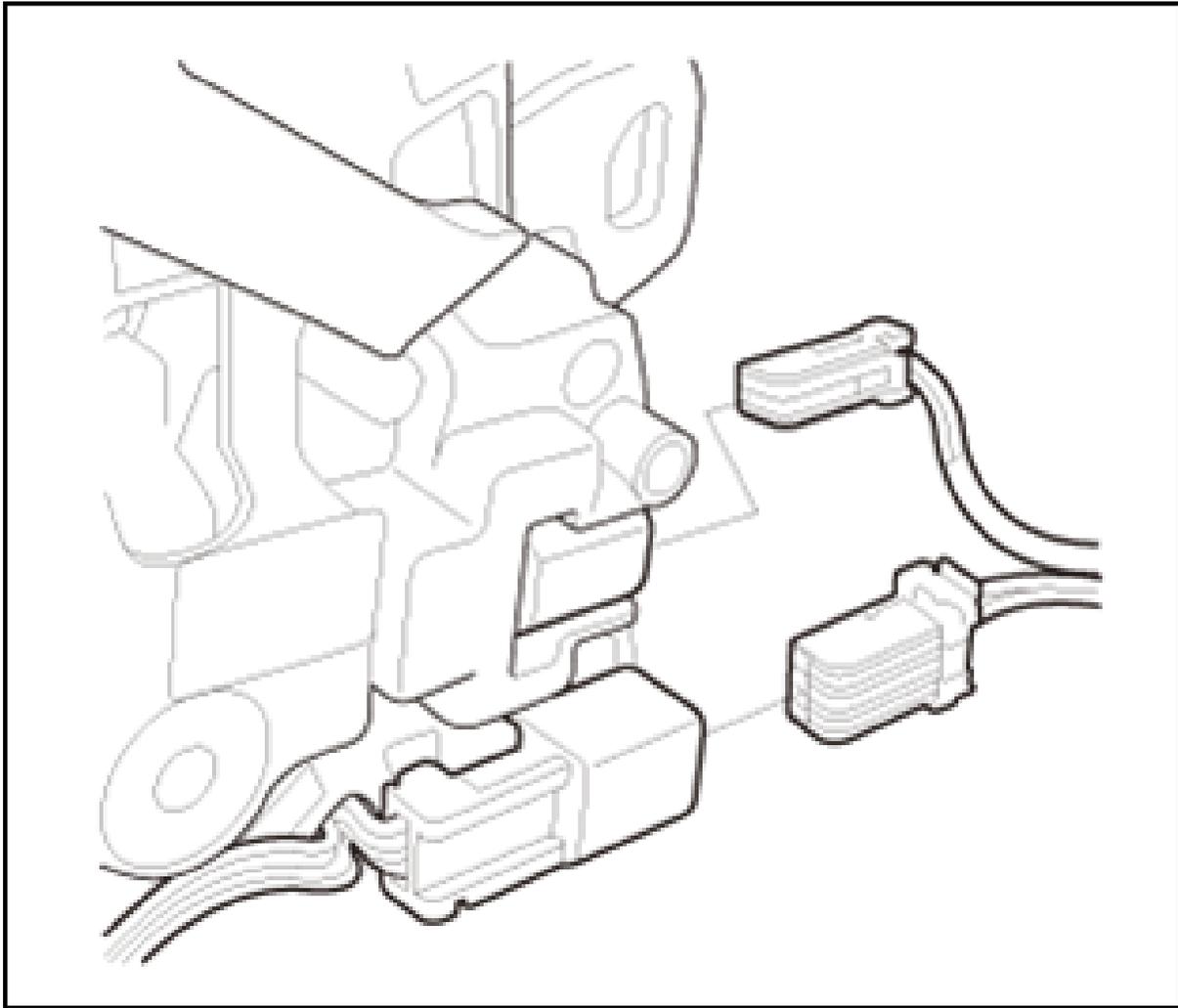
1. Install the shift lever assembly (A).

NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).



2. Install the harness clamps (A).

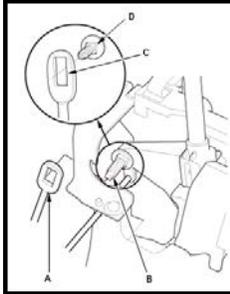
2. Connector - Connect



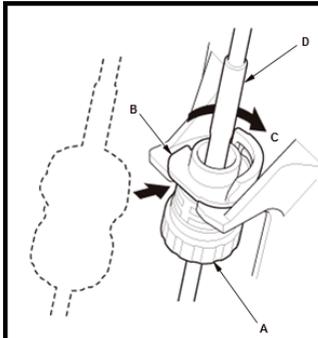
3. Shift Cable - Adjust

	<ol style="list-style-type: none"> 1. Push the shift cable (A) until it stops, then release it. <p>NOTE: Do not hold the shift cable guide (B) to adjust the shift cable.</p> <ol style="list-style-type: none"> 2. Pull the shift cable back one step from the P position so that the shift position is in R.
	<ol style="list-style-type: none"> 3. Turn the vehicle to the ON mode. 4. Check that the R indicator comes on. 5. Turn the vehicle to the OFF (LOCK) mode or the ACCESSORY mode.

4. Shift Cable (Shift Lever Side) - Install



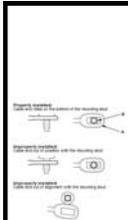
1. Install the shift cable end (A) over the mounting stud (B) by aligning its square hole (C) with the square fitting (D) at the bottom of the stud.



2. Install the socket holder (A), then rotate the socket holder retainer (B) clockwise (C) until it stops.

NOTE:

- Do not install the shift cable by holding the shift cable guide (D).



3. Make sure that the shift cable end (A) is properly installed on the mounting stud (B).

- If the cable end is out of position with the mounting stud, remove the shift cable from the shift cable bracket, then reinstall the cable end over the mounting stud before reinstalling the shift cable to the shift cable bracket. Do not install the shift cable end on the mounting stud with the shift cable installed on the shift cable bracket.
- If the shift cable end does not ride at the bottom of the mounting stud, rotate the stud to align the square fitting with the hole.

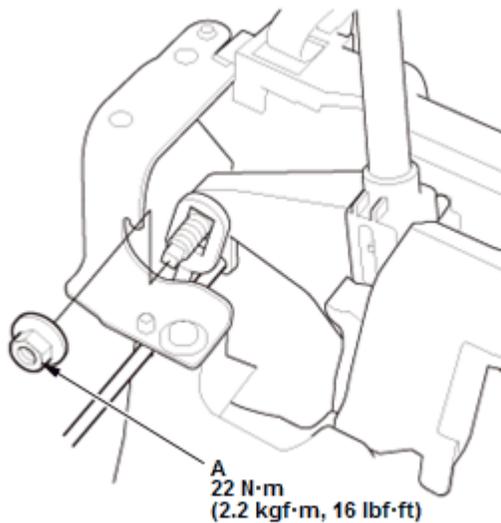
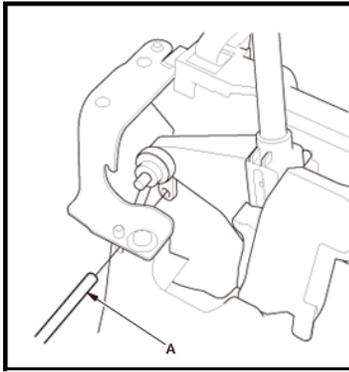


Fig. 24: Shift Cable End Nut With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

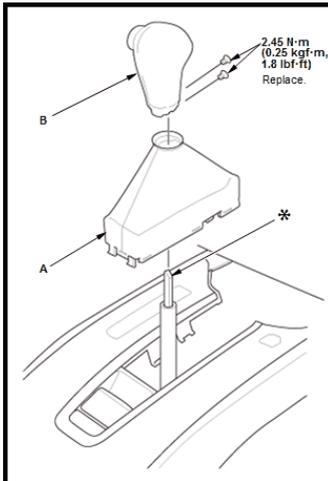
4. Install the shift cable end nut (A).



5. Remove the 6.0 mm (0.236 in) pin (A) that was installed to hold the shift lever.

5. Center Console - Install

6. Shift Lever Knob / Shift Lever Boots - Remove



NOTE: Do not wipe off the special grease applied to the area of the shift lever marked with an asterisk (*).

1. Install the shift lever boots (A).
2. Install the shift lever knob (B) to the shift lever, using a new screws.

7. Shift Lever Assembly - After Install Check

1. Turn the vehicle to the ON mode.
2. Shift the transmission to each position/mode, and check that the A/T gear position indicator follows the shift lever operation.
3. Check that the back-up lights come on when the transmission is in R position/mode.
4. Check that the engine starts when the transmission is in P or N position/mode, and does not start in any other positions / modes.
5. Shift the transmission to P position/mode.
6. Check that the shift lock works properly. Push the shift lock release, and check that the shift lever releases, and also check that the shift lever locks when it is shifted back to P position/mode.

SOLENOID WIRE HARNESS REMOVAL AND INSTALLATION (CVT)

Removal

NOTE:

- Keep all foreign particles out of the transmission.
- The solenoid wire harness and the transmission fluid temperature sensor are not available separately. Replace them as a set.

1. **Vehicle - Lift**

2. **Engine Undercover - Remove** (With 2WD)

3. **Left Front Splash Shield - Remove**

4. Engine - Warm Up

A	<ol style="list-style-type: none"> 1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice). 2. Turn the engine off.
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5. Transmission Fluid - Drain

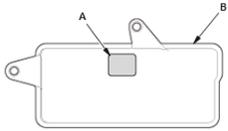
<p>A 49 N·m (5.0 kgf·m, 36 lbf·ft)</p> <p>B Replace.</p>	<ol style="list-style-type: none"> 1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes. <p>NOTE:</p> <ul style="list-style-type: none"> • Remove metal particles from the magnetic surface of the drain plug. • Be careful not to burn yourself by the hot part. <ol style="list-style-type: none"> 2. Reinstall the drain plug with a new sealing washer.
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6. **Transmission Fluid Pan - Remove**

NOTE: The actual transmission fluid (HCF-2) capacity will vary from the specified capacity based on the length of time the transmission fluid pan is off the transmission. Avoid leaving the transmission fluid pan off for extend periods of time.

7. Transmission Fluid Strainer - Remove

<p>B Replace.</p> <p>A</p>	<ol style="list-style-type: none"> 1. Remove the transmission fluid strainer (A) with the O-ring (B).
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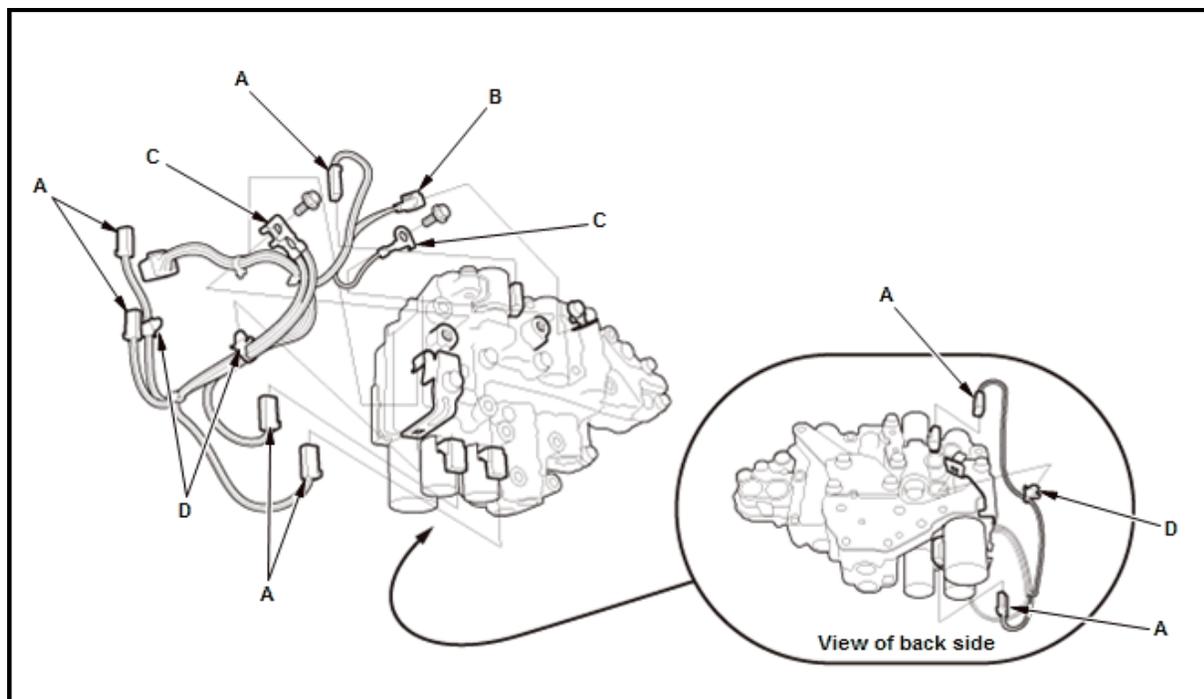
	<ol style="list-style-type: none"> 2. Clean the inlet opening (A) of the transmission fluid strainer (B) thoroughly with compressed air. 3. Check that it is in good condition and that the inlet opening is not clogged. 4. Test the strainer by pouring clean transmission fluid through the inlet opening, and replace it if it is clogged or damaged.
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8. **Valve Body Assembly - Remove**

9. Solenoid Wire Harness - Remove

1. Disconnect the connectors (A).

NOTE: Check the connector for corrosion, dirt, or oil, and clean or repair if necessary.



2. Remove the transmission fluid temperature sensor (B).
3. Remove the ground terminals (C) and the harness clamps (D).

Installation

NOTE:

- Keep all foreign particles out of the transmission.
- The solenoid wire harness and the transmission fluid temperature sensor are not available separately. Replace them as a set.
- Apply a light coat of clean transmission fluid on the O-ring before installation.

1. Solenoid Wire Harness - Install

1. Connect the connectors (A).

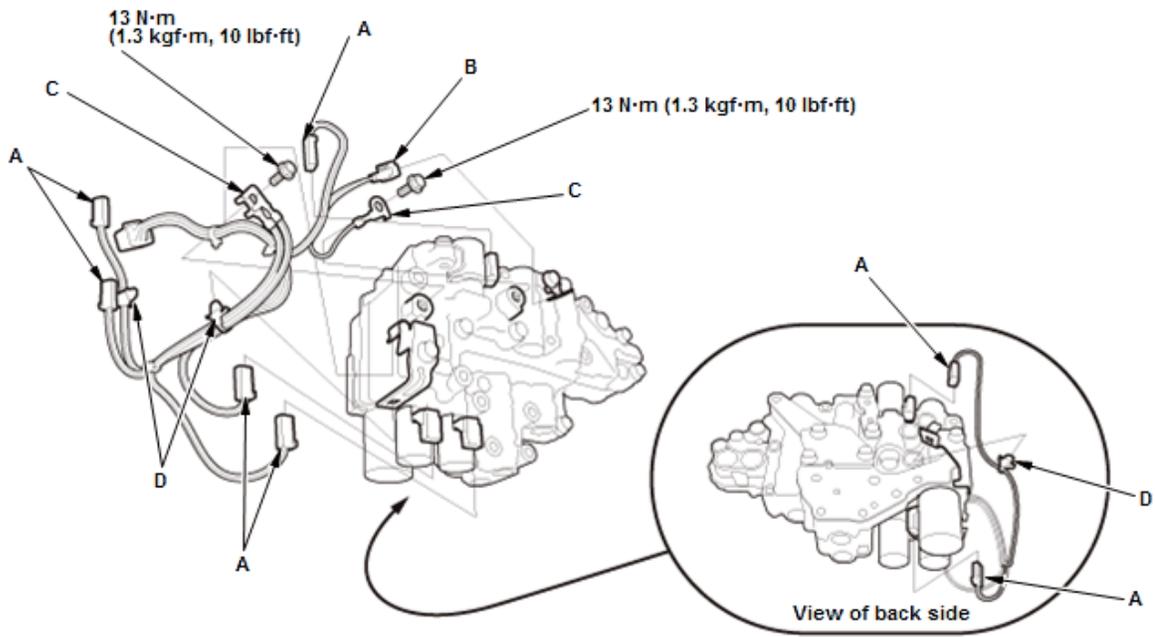


Fig. 25: Solenoid Wire Harness With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

2. Install the transmission fluid temperature sensor (B).

3. Install the ground terminals (C) and the harness clamps (D).

2. **Valve Body Assembly - Install**

3. Transmission Fluid Strainer - Install

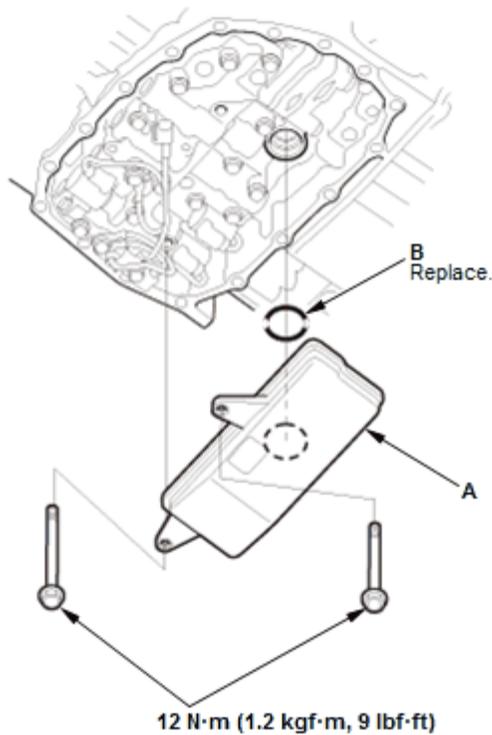


Fig. 26: Transmission Fluid Strainer With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

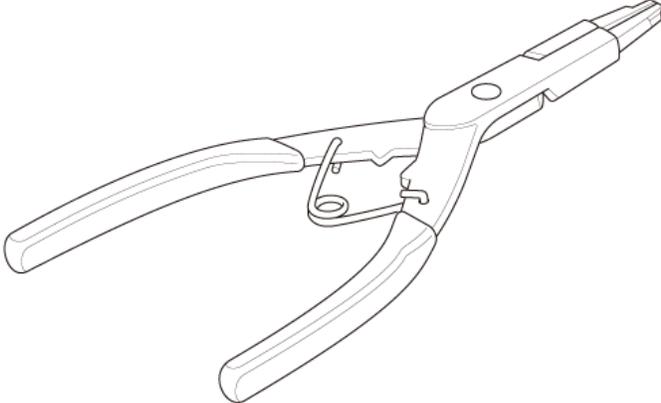
1.	Install the transmission fluid strainer (A) with a new O-ring (B).
NOTE:	Be careful not to damage the solenoid wire harness and the O-ring while installing the transmission fluid strainer.

4. [Transmission Fluid Pan - Install](#)
5. [Transmission Fluid - Refill](#)
6. [Transmission Fluid Level - Check](#)
7. [Left Front Splash Shield - Install](#)
8. [Engine Undercover - Install](#) (With 2WD)

TORQUE CONVERTER HOUSING BEARING REPLACEMENT (CVT)

Special Tools Required

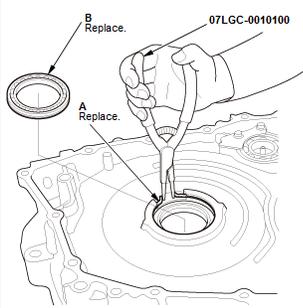
Image	Description/Tool Number
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Image	Description/Tool Number
	<p>Snap Ring Pliers 07LGC-0010100</p>

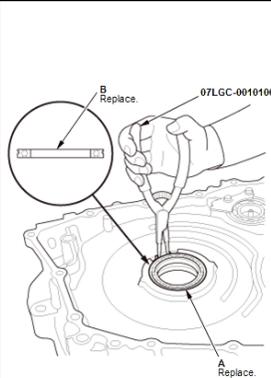
Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

1. Torque Converter Housing Bearing - Remove

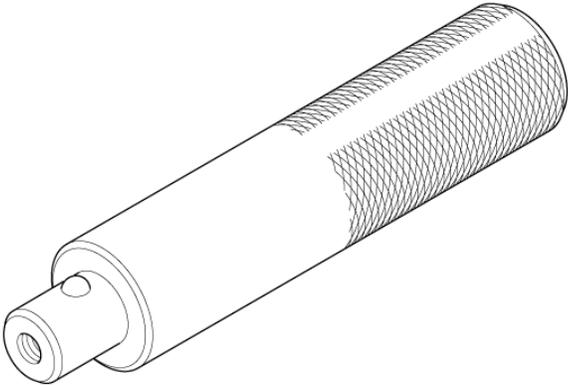
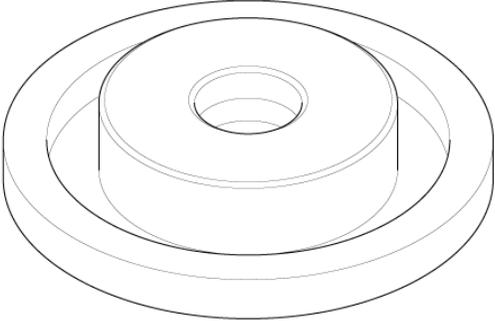
	<ol style="list-style-type: none"> 1. While expanding the snap ring (A) using the snap ring pliers, remove the torque converter housing bearing (B). 2. Remove the snap ring.
------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

2. Torque Converter Housing Bearing - Install

	<ol style="list-style-type: none"> 1. Install a new snap ring (A). <p>NOTE:</p> <ul style="list-style-type: none"> • Be careful not to deform the snap ring by opening/closing it excessively. • Make sure the snap ring is firmly installed in the groove. <ol style="list-style-type: none"> 2. While expanding the snap ring using the snap ring pliers, install the torque converter housing bearing (B) as shown. <p>NOTE: Make sure the snap ring is firmly installed in the groove.</p>
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TORQUE CONVERTER HOUSING OIL SEAL REPLACEMENT (CVT)

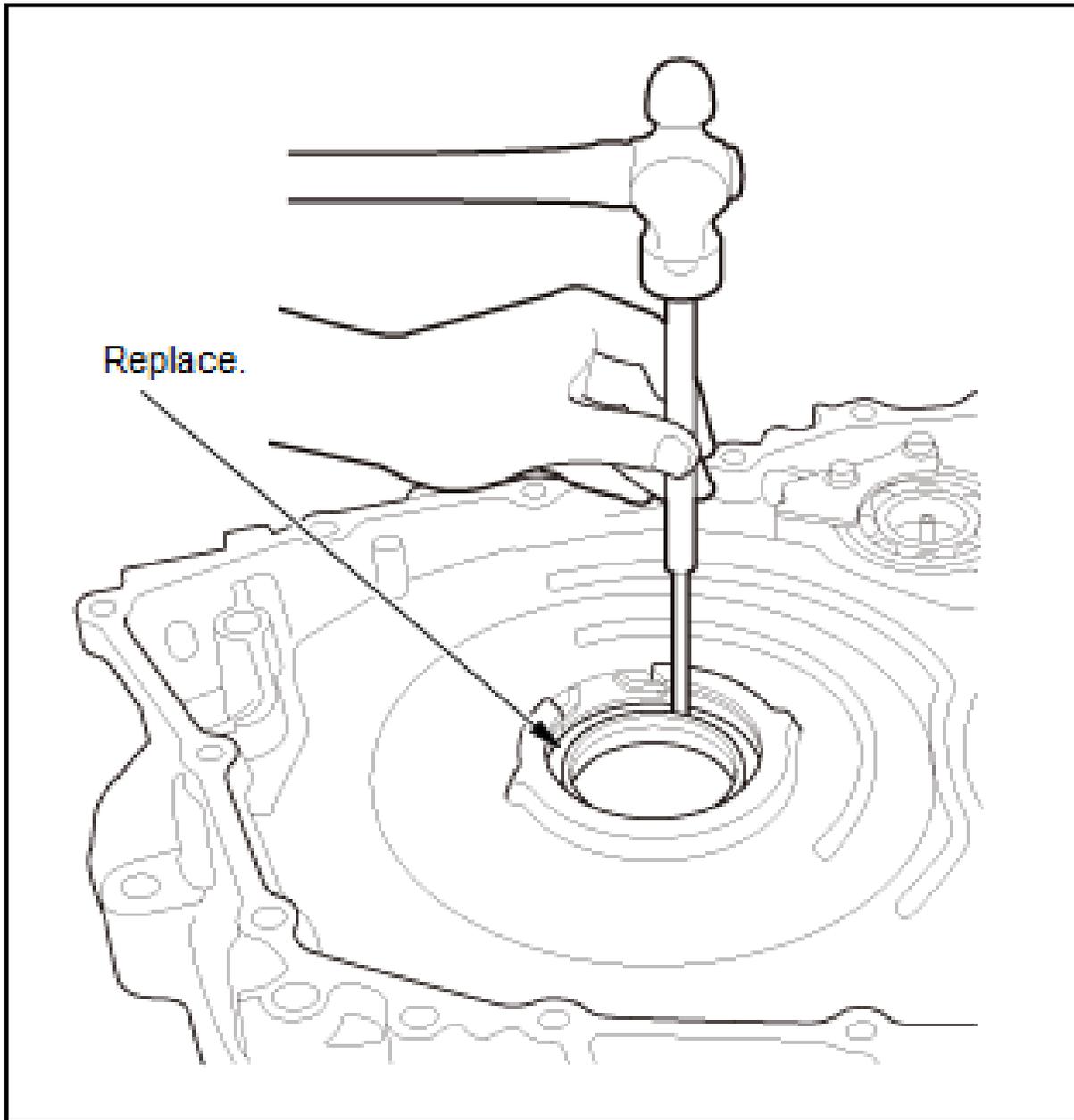
Special Tools Required

Image	Description/Tool Number
	<p>Driver Handle, 15 x 135L 07749-0010000</p>
	<p>Oil Seal Driver Attachment, 71.5 mm 07GAD-SE00100</p>

Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

1. **Torque Converter Housing Bearing - Remove**
2. Torque Converter Housing Oil Seal - Remove



3. Torque Converter Housing Oil Seal - Install

	<p>1. Install the oil seal (A) flush with the torque converter housing (B) using the 15 x 135L driver handle and the 71.5 mm oil seal driver attachment.</p>
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4. **Torque Converter Housing Bearing - Install**

TORQUE CONVERTER TURBINE SPEED SENSOR REMOVAL AND INSTALLATION (CVT)

Removal and Installation

NOTE: Keep all foreign particles out of the transmission.

1. **Vehicle - Lift**
2. **Engine Undercover - Remove** (With 2WD)
3. Torque Converter Turbine Speed Sensor - Remove

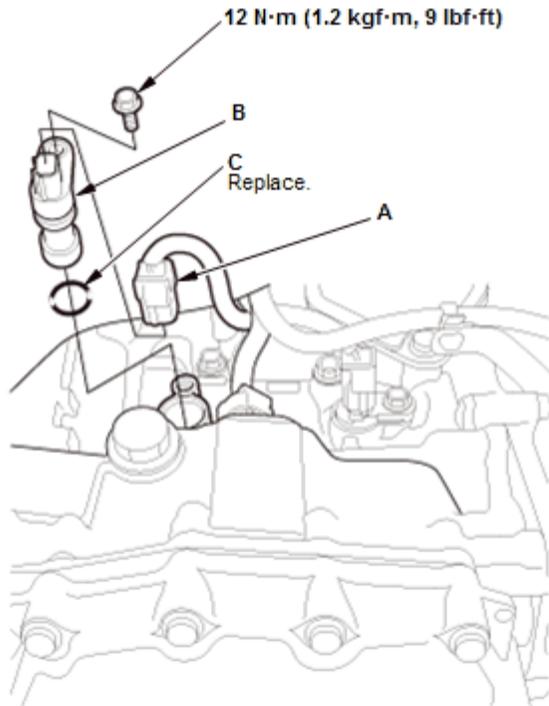


Fig. 27: Torque Converter Turbine Speed Sensor With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

	1. Disconnect the connector (A).
Â	NOTE: Check the connector for corrosion, dirt, or oil, and clean or repair if necessary.
	2. Remove the torque converter turbine speed sensor (B) with the O-ring (C).

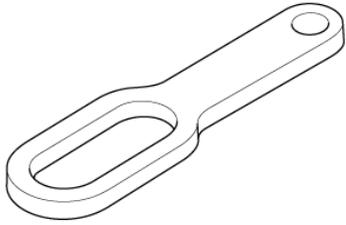
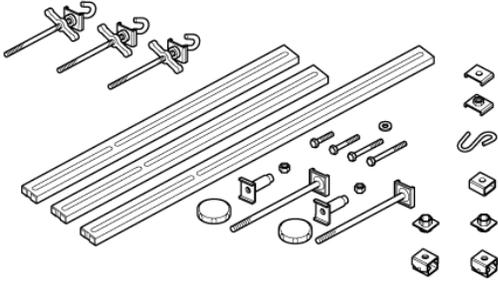
4. All Removed Parts - Install

	1. Install the parts in the reverse order of removal.
Â	NOTE: <ul style="list-style-type: none">• When installing the torque converter turbine speed sensor, be sure to use a new O-ring which should be applied a light coat of clean transmission fluid before installation.• If necessary, add transmission fluid to the proper level .

TRANSFER ASSEMBLY REMOVAL AND INSTALLATION (CVT)

*: Available through the Honda Tool and Equipment Program 888-424-6857.

Special Tools Required

Image	Description/Tool Number
	Universal Lifting Eyelet 07AAK-SNAA120
	Engine Support Hanger, A and Reds AAR-T1256*

*: Available through the Honda Tool and Equipment Program 888-424-6857.

Removal

NOTE:

- Use fender covers to avoid damaging painted surfaces.
- Keep all foreign particles out of the transmission.
- Special tool Reds engine support hanger AAR-T1256 must be used with the side engine mount installed.

1. Vehicle - Lift Set

1. **Set the vehicle on a lift.**

2. **Left Front Splash Shield - Remove**

3. Engine - Warm Up

1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice).
2. Turn the engine off.

4. Transmission Fluid - Drain

	<p>1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Remove metal particles from the magnetic surface of the drain plug. • Be careful not to burn yourself by the hot part. <p>2. Reinstall the drain plug with a new sealing washer.</p>
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5. Vehicle - Lift Down

6. **Steering Joint - Disconnect**

NOTE: Hold the steering wheel with the steering wheel holder tool.

7. **Front Wiper Arm - Remove**

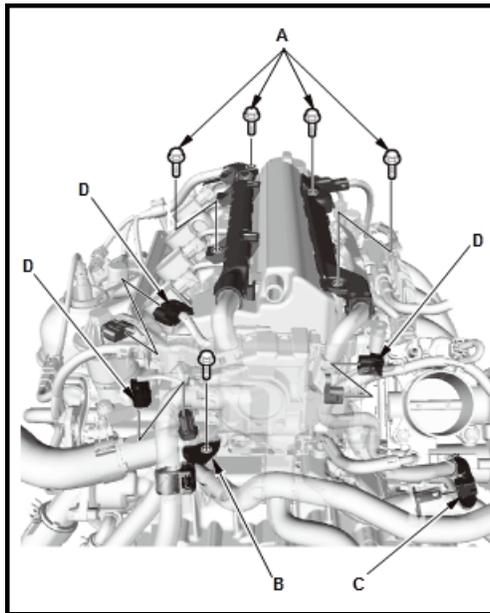
8. **Cowl Cover - Remove**

9. **Front Grille Cover - Remove**

10. **Air Cleaner - Remove**

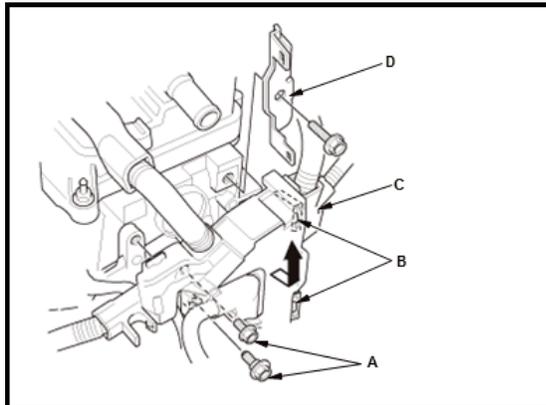
11. Engine Wire Harness - Remove (Engine Side)

	<p>1. Remove the engine cover.</p>
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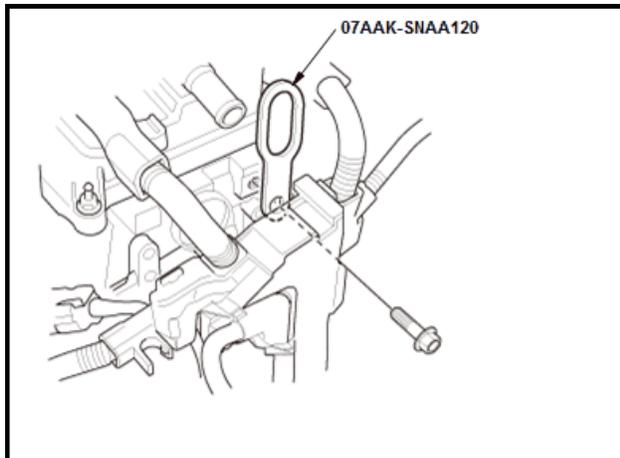


2. Remove the harness cover bolts (A).
3. Remove the harness bracket (B).
4. Remove the harness holder (C).
5. Disconnect these connectors (D).

12. Universal Lifting Eyelet - Install

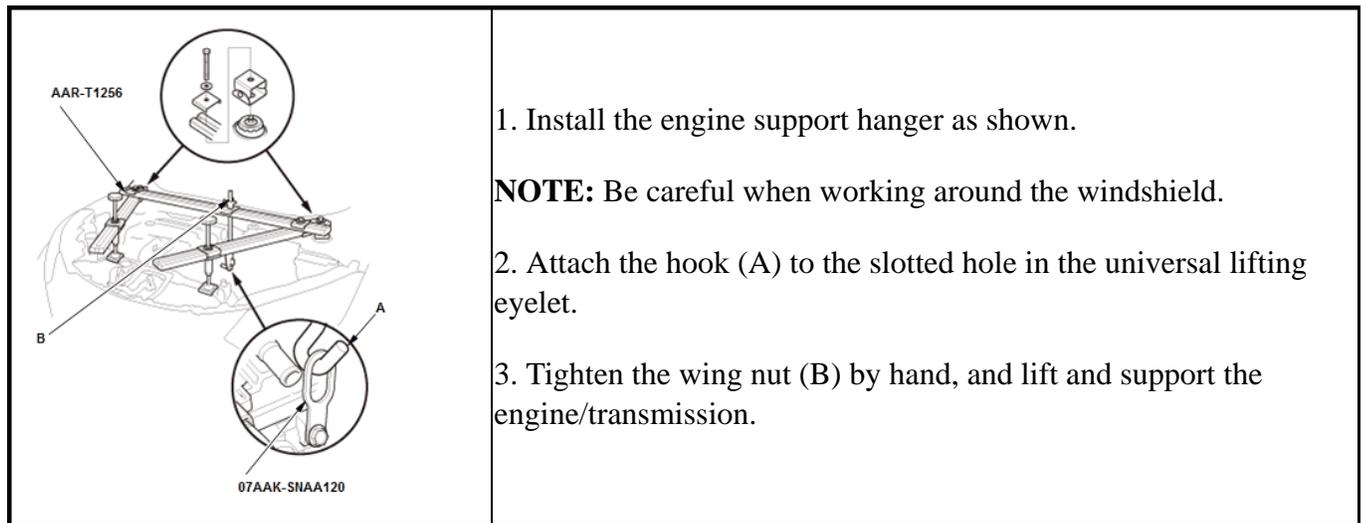


1. Remove the bolts (A), clamps (B) and move the harness holder (C).
2. Remove the bracket (D).



3. Attach the universal lifting eyelet to the cylinder head.

13. Engine Support Hanger - Install



1. Install the engine support hanger as shown.

NOTE: Be careful when working around the windshield.

2. Attach the hook (A) to the slotted hole in the universal lifting eyelet.

3. Tighten the wing nut (B) by hand, and lift and support the engine/transmission.

14. Vehicle - Lift Up

15. **Front Wheel - Remove** (Both Sides).

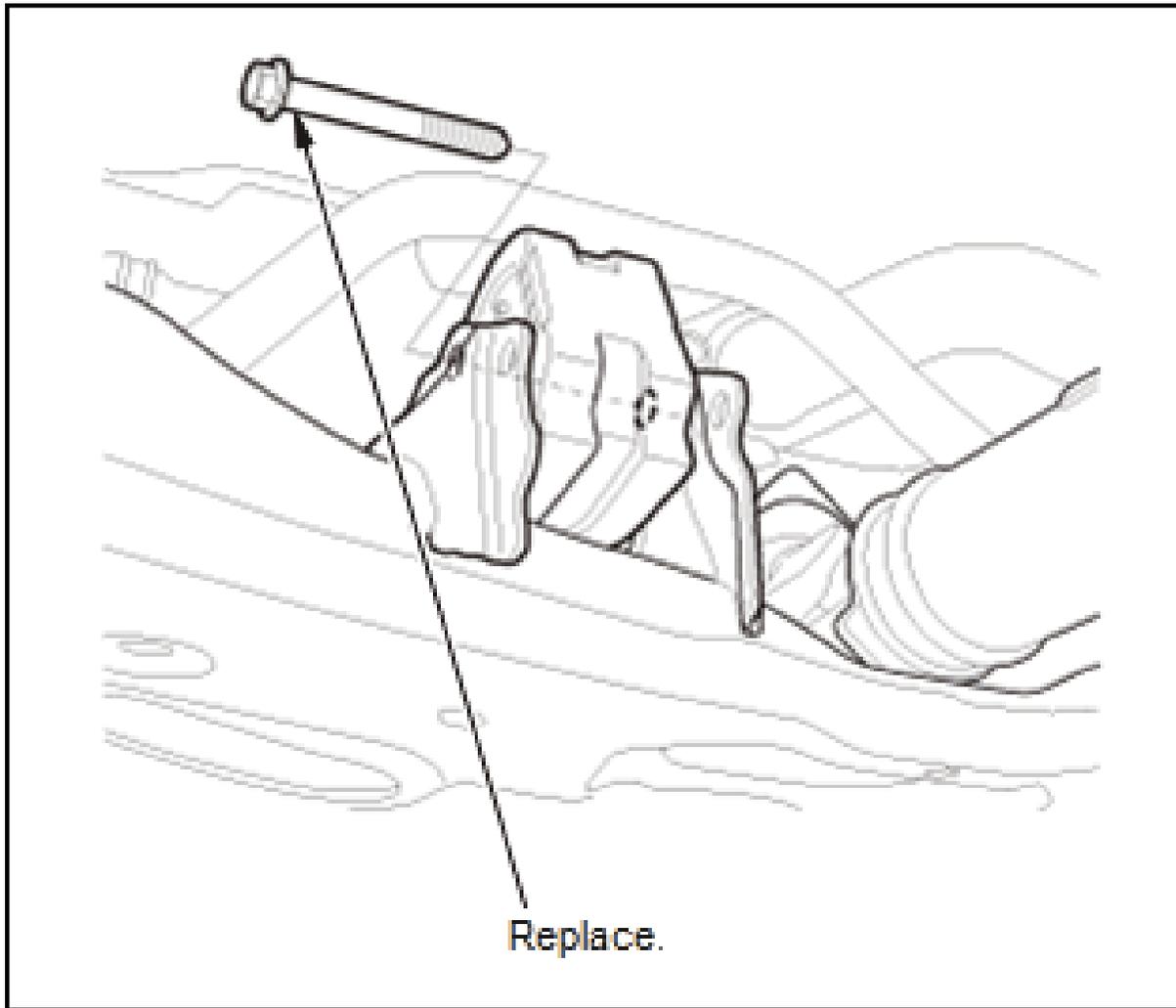
16. **Lower Stabilizer Link Ball Joint - Disconnect** (Both Sides).

17. **Lower Arm Ball Joint - Disconnect** (Both Sides).

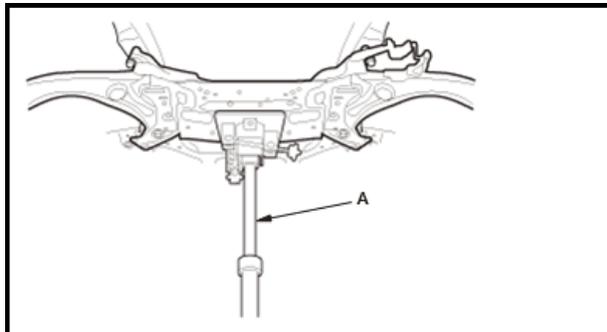
18. **Tie-Rod End Ball Joint - Disconnect** (Both Sides).

19. **Propeller Shaft (Transfer Side) - Disconnect** .

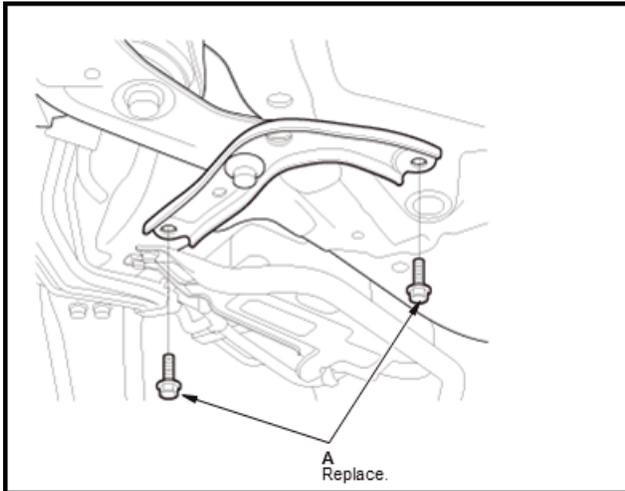
20. Torque Rod Mounting Bolt - Remove.



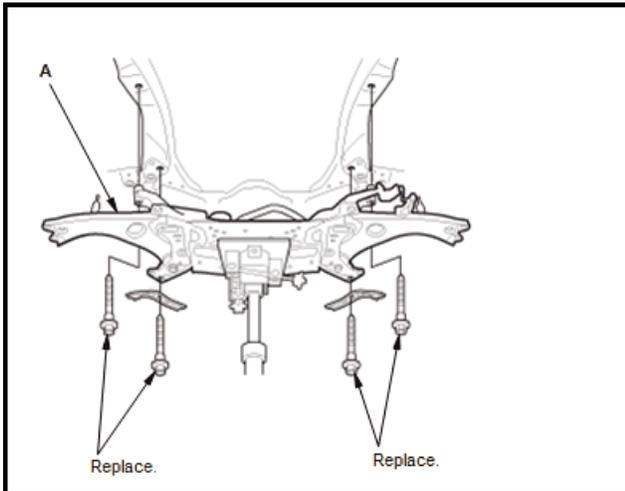
21. Front Subframe - Remove



1. Support the front subframe with a transmission jack (A).



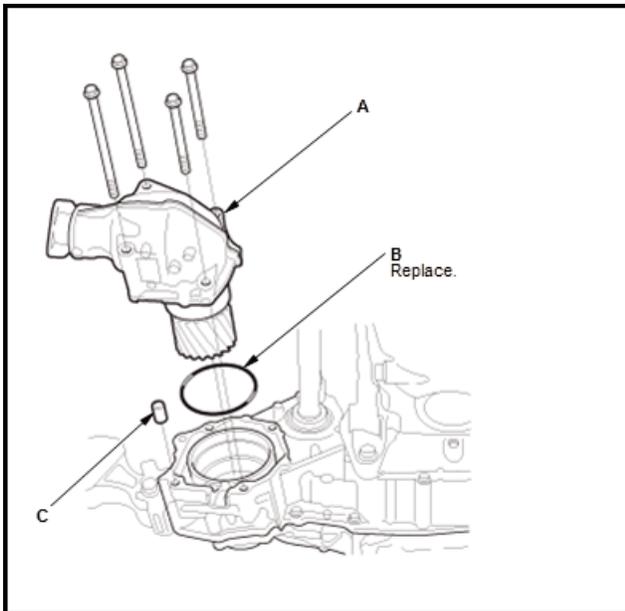
2. Remove the front subframe stay on both sides (A).



3. Remove the front subframe (A) carefully.
4. Support the transmission with the transmission jack.

22. Transmission - Support

23. Transfer Assembly - Remove



1. Remove the transfer (A) with the O-ring (B).
2. Remove the dowel pin (C).

Installation

NOTE:

- Use fender covers to avoid damaging painted surfaces.
- Keep all foreign particles out of the transmission.

1. Transfer Assembly - Install

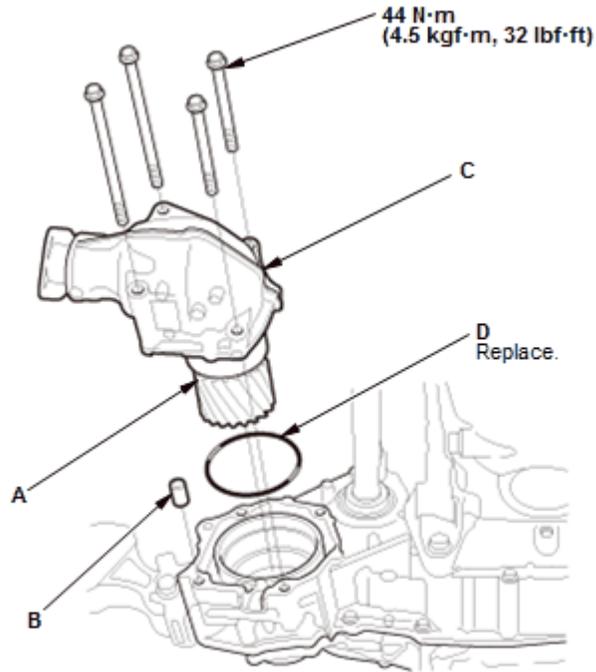
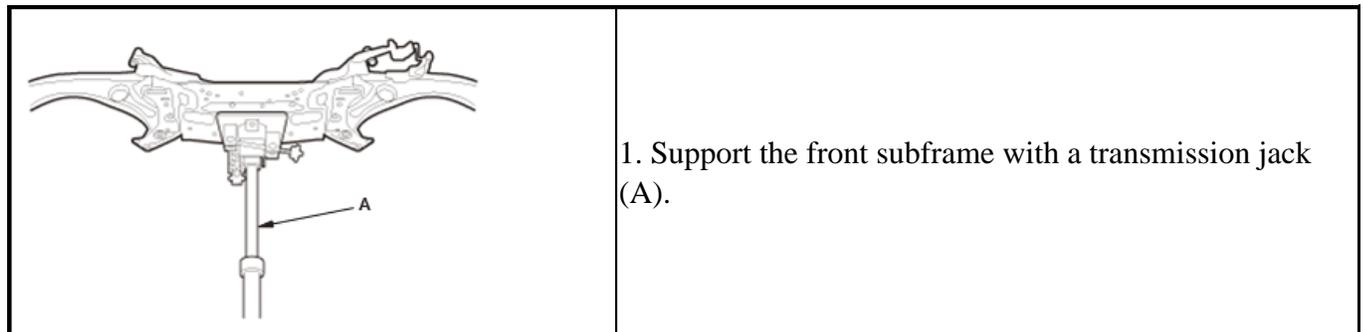


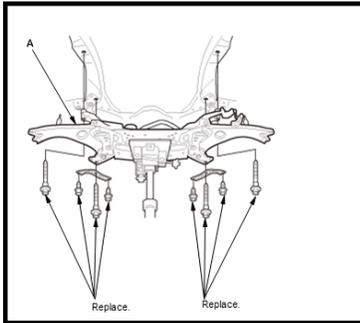
Fig. 28: Transfer Assembly With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

- | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Apply a light coat of clean transmission fluid to the transfer mount and transfer driven gear (A).</p> <p>2. Install the dowel pin (B).</p> <p>3. Install the transfer (C) with a new O-ring (D).</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

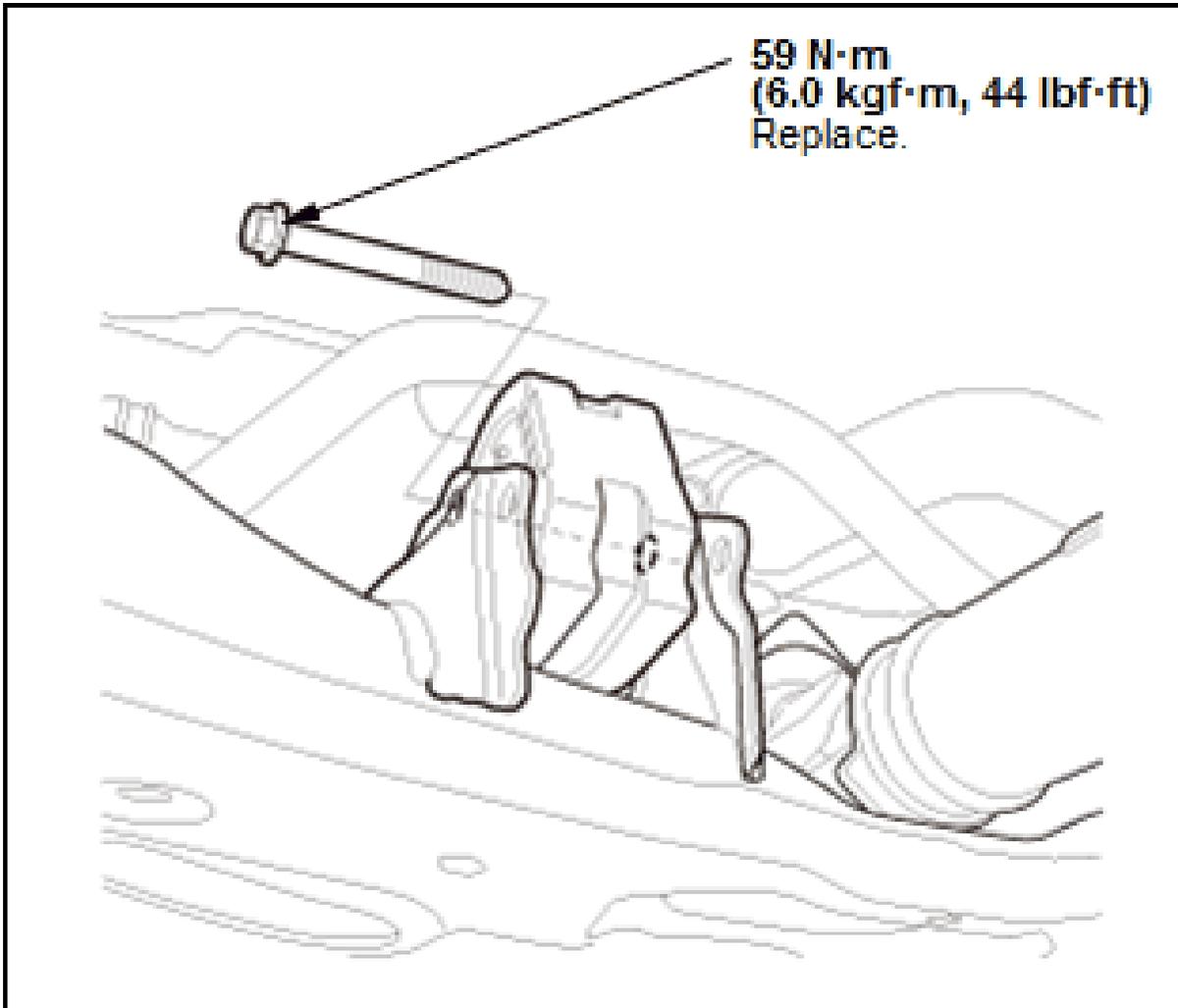
2. Front Subframe - Install



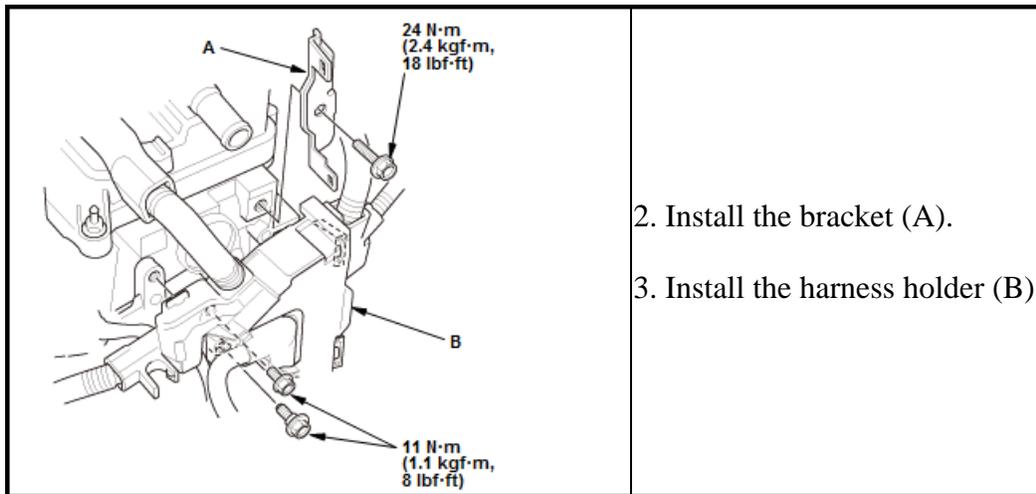
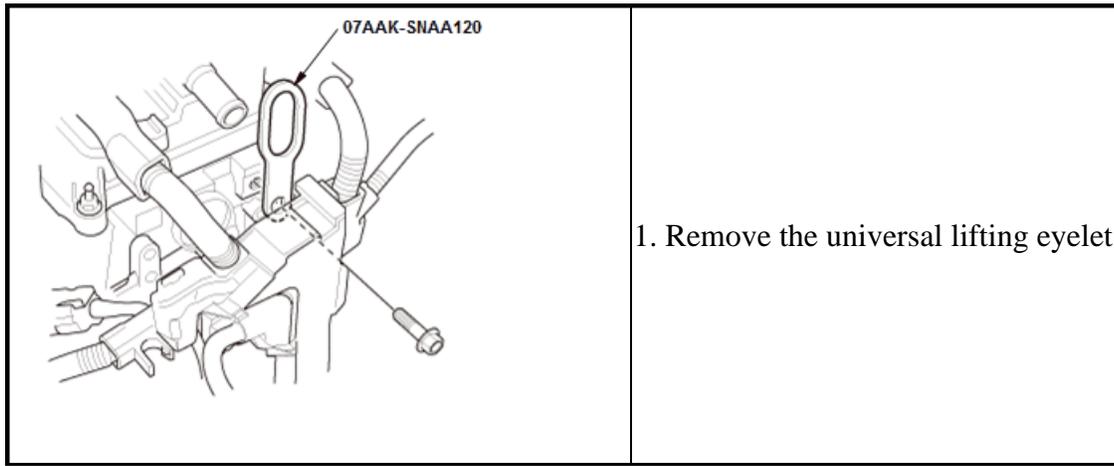


2. Raise the front subframe (A) up to the body.
3. Loosely install the front subframe using the appropriate bolts.
4. **Align the front subframe with the subframe alignment pin, then tighten the mounting bolts to the specified torque .**
5. Remove the transmission jack.

3. Torque Rod Mounting Bolt - Install



4. **Propeller Shaft (Transfer Side) - Connect**
5. **Tie-Rod End Ball Joint - Connect** (Both Sides).
6. **Lower Arm Ball Joint - Connect** (Both Sides).
7. **Lower Stabilizer Link Ball Joint - Connect** (Both Sides).
8. Vehicle - Lift Down.
9. Engine Support Hanger - Remove.
10. Universal Lifting Eyelet - Remove.



11. Engine Wire Harness - Install (Engine Side).

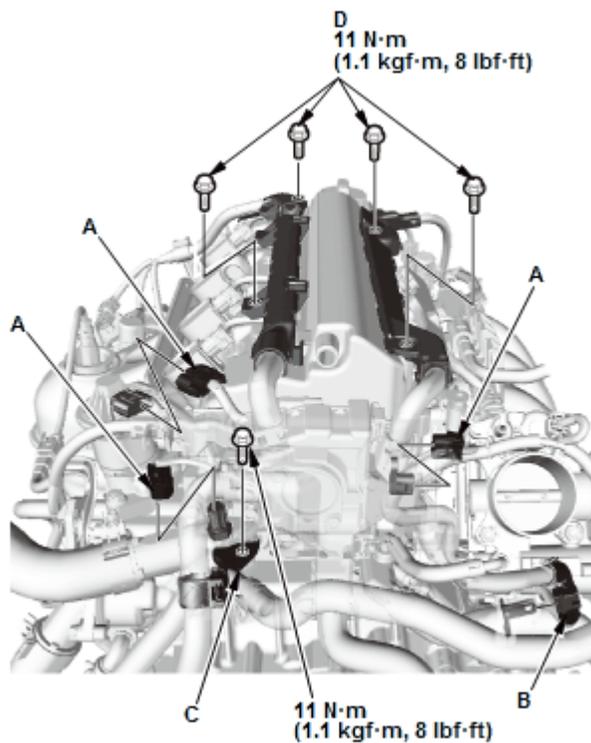
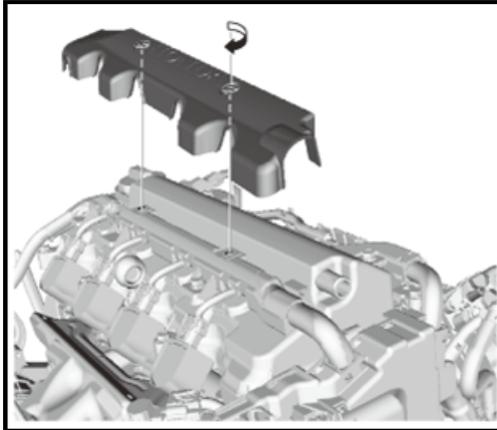


Fig. 29: Engine Wire Harness (Engine Side) With Torque Specifications
Courtesy of HONDA, U.S.A., INC.

- | | |
|---|-----------------------------------------|
| A | 1. Connect these connectors (A). |
| | 2. Install the harness holder (B). |
| | 3. Install the harness bracket (C). |
| | 4. Install the harness cover bolts (D). |



- | |
|------------------------------|
| 5. Install the engine cover. |
|------------------------------|

- 12. **Air Cleaner - Install**
- 13. **Front Grille Cover - Install**
- 14. **Cowl Cover - Install**
- 15. **Front Wiper Arm - Install**
- 16. **Steering Joint - Connect**
- 17. **Transmission Fluid - Refill**
- 18. Transmission - After Install Check

- | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | 1. Make sure all four wheels to rotate freely. |
| | 2. Start the engine. |
| | NOTE: Check that the engine starts in P or N position/mode, and does not start in any other positions / modes. |
| | 3. Check the shift lever operation. |
| | 4. Move the shift lever through all positions / modes, and verify the transmission range switch matches with the A/T gear position indicator. |
| | 5. Make sure the vehicle is turned to the OFF (LOCK) mode with the shift lever is in P position/mode. If it does not, adjust the shift cable Shift Cable Adjustment. |

- 19. **Transmission Fluid Level - Check**
- 20. **Front Wheel - Install** (Both Sides).

21. Left Front Splash Shield - Install
22. Wheel Alignment - Check
23. VSA Sensor Neutral Position - Memorize
24. Vehicle - Test-Drive - Refer to: Stall Speed Test (CVT), or CVT Road Test (CVT)

TRANSMISSION FLUID (HCF-2) REPLACEMENT (CVT)

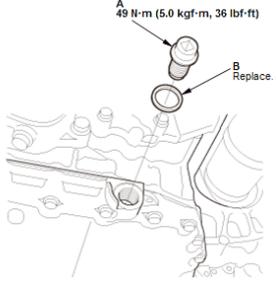
Replacement

NOTE: Keep all foreign particles out of the transmission.

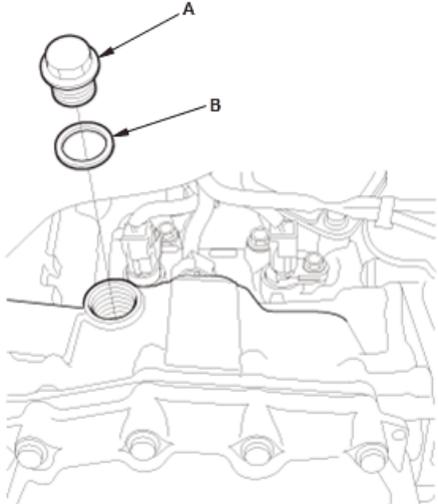
1. Vehicle - Lift Set
2. Engine Undercover - Remove (With 2WD)
3. Engine - Warm Up

A	<ol style="list-style-type: none"> 1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice). 2. Turn the engine off.
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4. Transmission Fluid - Drain

	<ol style="list-style-type: none"> 1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes. <p>NOTE:</p> <ul style="list-style-type: none"> • Remove metal particles from the magnetic surface of the drain plug. • Be careful not to burn yourself by the hot part. <ol style="list-style-type: none"> 2. Reinstall the drain plug with a new sealing washer.
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5. Transmission Fluid - Refill

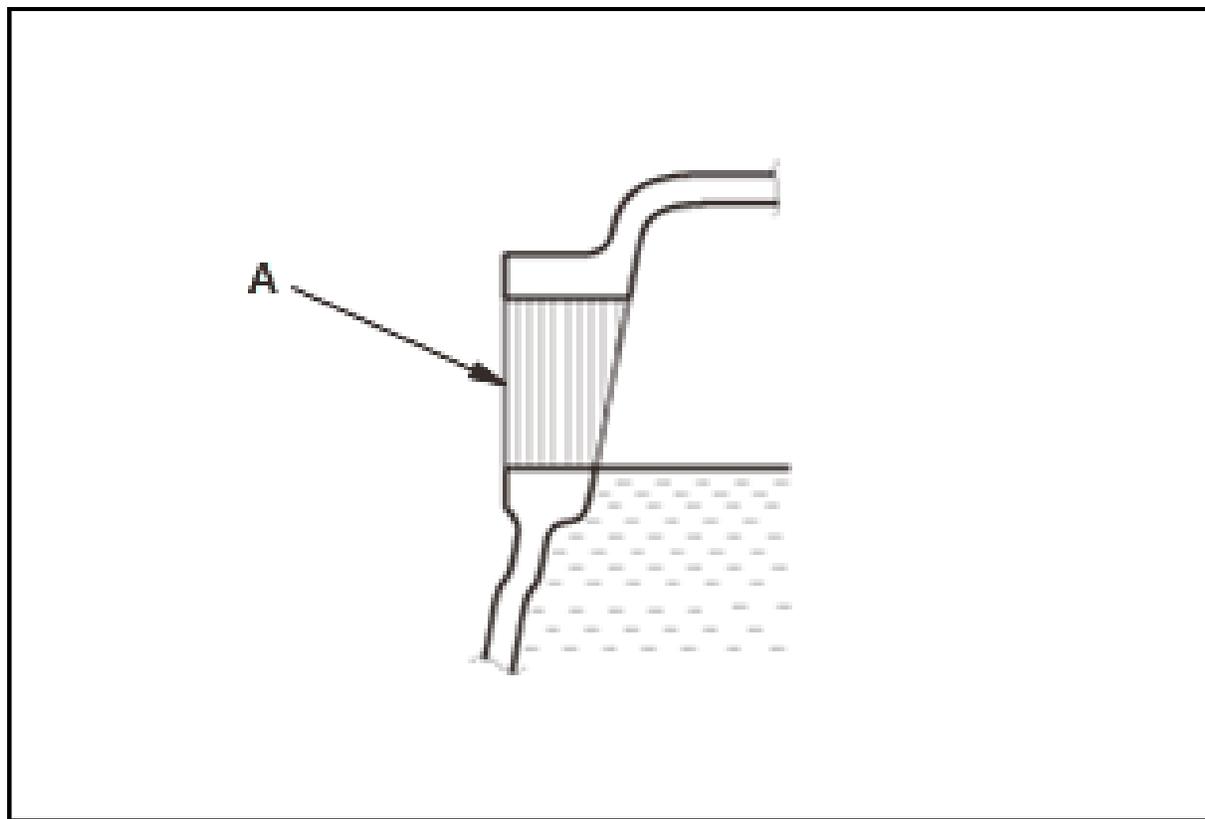
	<ol style="list-style-type: none"> 1. Remove the filler plug (A) and the sealing washer (B). <p>NOTE: Be careful not to burn yourself by the hot part.</p>
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2. Refill the transmission with the recommended fluid into the filler plug hole (A) until transmission fluid

overflows. Always use Honda HCF-2 Continuously Variable Transmission Fluid.

Type	Honda HCF-2 Continuously Variable Transmission Fluid Capacity.			
Â	Change	Oil pan, valve body, and transmission fluid pump removal, installation, and replacement*	Transmission overhaul.	Transfer removal, installation, and replacement.
2WD	3.5 L (3.7 US qt)	4.3 L (4.5 US qt)	5.8 L (6.1 US qt)	-
AWD	4.0 L (4.2 US qt)	4.8 L (5.1 US qt)	6.8 L (7.2 US qt)	4.5 L (4.8 US qt)

NOTE: *Reference transmission fluid (HCF-2) capacity when working time is 30 minutes. The actual transmission fluid (HCF-2) capacity will vary from the specified capacity based on the length of time the transmission fluid pan is off the transmission. Avoid leaving the transmission fluid pan off for extend periods of time.



3. Temporarily install the filler plug with the sealing washer.

6. Transmission Fluid - Add

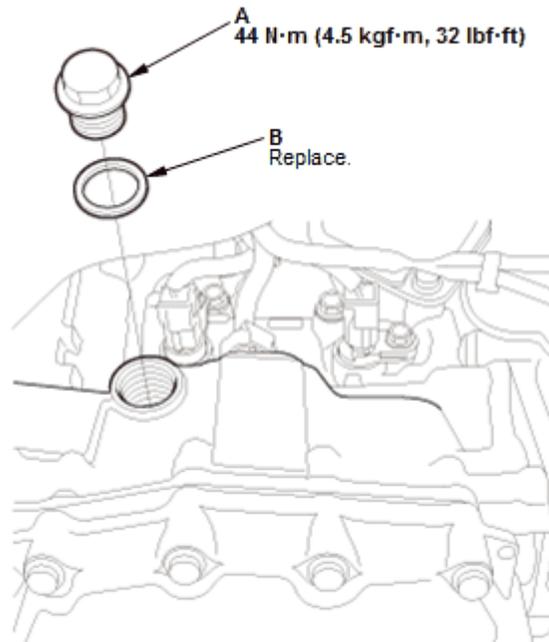


Fig. 30: Transmission Filler Plug With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

<p>Â</p>	<p>NOTE: Add transmission fluid after the shift lever operation without spending too much time.</p>
	<p>1. Lower the vehicle.</p>
	<p>2. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice).</p>
	<p>3. While pressing the brake pedal firmly, shift in turn the transmission to P→R→N→D→S→L→S→D→N→R→P (without paddle shifter) or P→R→N→D→S→D→N→R→P (with paddle shifter) position/mode, and wait for at least 3 seconds to each position.</p>
	<p>4. Turn the engine off.</p>
	<p>5. Raise the vehicle, and make sure it is securely supported.</p>
<p>6. Remove the filler plug (A) and the sealing washer (B).</p>	
<p>NOTE: Be careful not to burn yourself by the hot part.</p>	

	<p>7. Add the transmission with the recommended fluid into the filler plug hole (A) until transmission fluid overflows. Always use Honda HCF-2 Continuously Variable Transmission Fluid</p> <p>8. Reinstall the filler plug with a new sealing washer.</p>
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7. All Removed Parts - Install

- | | |
|----------|--------------------------------------------------------------|
| <p>Â</p> | <p>1. Install the parts in the reverse order of removal.</p> |
|----------|--------------------------------------------------------------|

8. HDS - Connect

9. Maintenance Minder - Reset (With Maintenance Minder System)

A	1. If the Maintenance Minder required to replace the transmission fluid, reset the Maintenance Minder with the gauge (see "Resetting the Maintenance Minder") . If the Maintenance Minder did not require to replace the transmission fluid, reset the Maintenance Minder with the HDS (see "Resetting the Individual Maintenance Items") .
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TRANSMISSION FLUID PAN REMOVAL AND INSTALLATION (CVT)

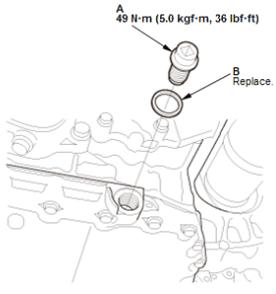
Removal

NOTE: Keep all foreign particles out of the transmission.

1. Vehicle - Lift
2. Engine Undercover - Remove (With 2WD)
3. Left Front Splash Shield - Remove
4. Engine - Warm Up

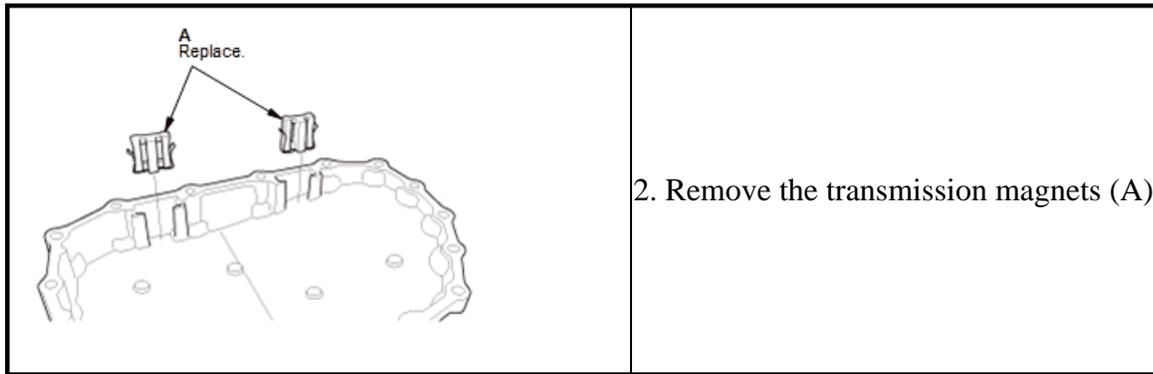
A	<ol style="list-style-type: none">1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice).2. Turn the engine off.
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5. Transmission Fluid - Drain

	<ol style="list-style-type: none">1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes. <p>NOTE:</p> <ul style="list-style-type: none">• Remove metal particles from the magnetic surface of the drain plug.• Be careful not to burn yourself by the hot part. <ol style="list-style-type: none">2. Reinstall the drain plug with a new sealing washer.
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6. Transmission Fluid Pan - Remove

	<ol style="list-style-type: none">1. Remove the transmission fluid pan (A) with the dowel pins (B) and the gasket (C). <p>NOTE: The actual transmission fluid (HCF-2) capacity will vary from the specified capacity based on the length of time the transmission fluid pan is off the transmission. Avoid leaving the transmission fluid pan off for extend periods of time.</p>
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Installation

NOTE: Keep all foreign particles out of the transmission.

1. Transmission Fluid Pan - Install

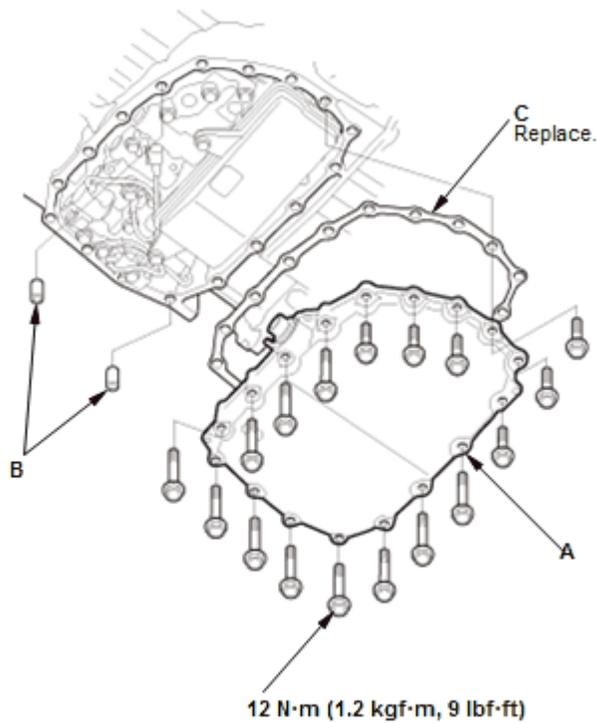
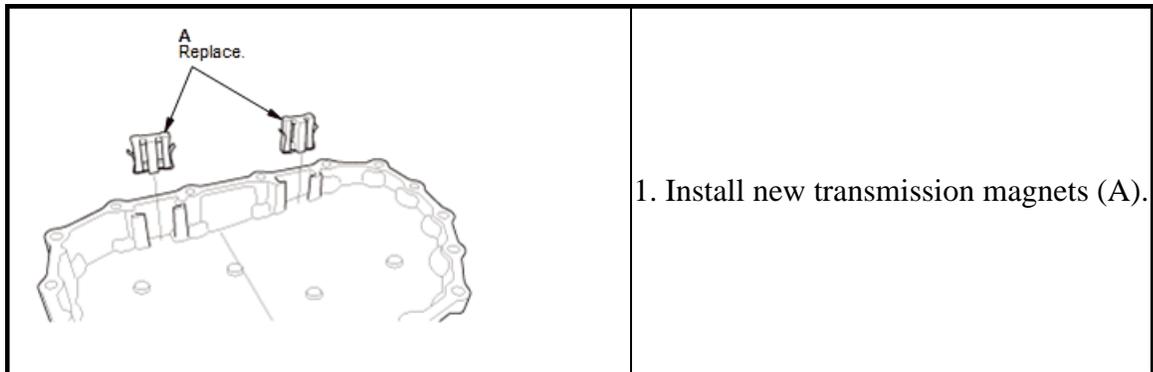


Fig. 31: Transmission Fluid Pan With Torque Specifications
 Courtesy of HONDA, U.S.A., INC.

2. Install the transmission fluid pan (A) with the dowel pins (B) and a new gasket (C).

NOTE:

- Be careful not to damage the solenoid wire harness while installing the transmission fluid pan.
- Tighten the transmission fluid pan mounting bolts in a crisscross pattern in at least two steps.

2. **Transmission Fluid - Refill**

3. **Transmission Fluid Level - Check**

4. **Left Front Splash Shield - Install**

5. **Engine Undercover - Install** (With 2WD)

TRANSMISSION FLUID PUMP REMOVAL AND INSTALLATION (CVT)

Removal

NOTE: Keep all foreign particles out of the transmission.

1. **Vehicle - Lift**

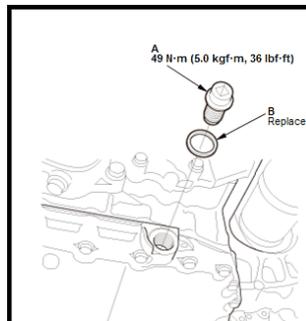
2. **Engine Undercover - Remove** (With 2WD)

3. **Left Front Splash Shield - Remove**

4. Engine - Warm Up

1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice).
2. Turn the engine off.

5. Transmission Fluid - Drain



1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes.

NOTE:

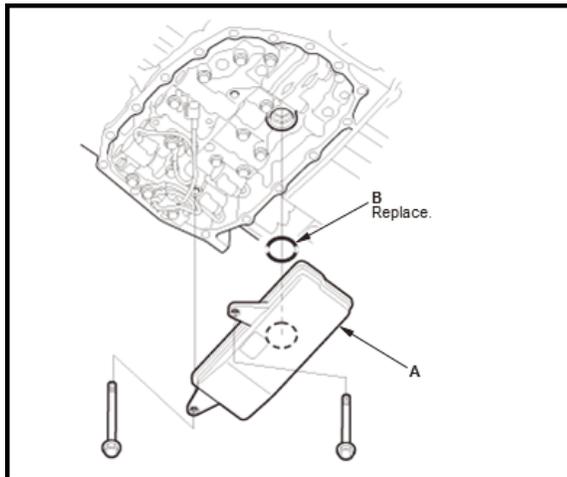
- Remove metal particles from the magnetic surface of the drain plug.
- Be careful not to burn yourself by the hot part.

2. Reinstall the drain plug with a new sealing washer.

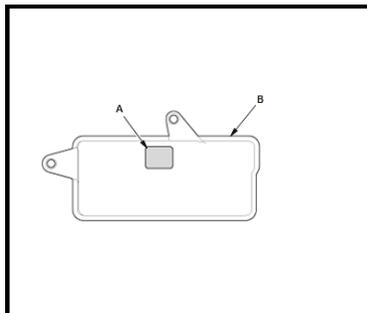
6. **Transmission Fluid Pan - Remove**

NOTE: The actual transmission fluid (HCF-2) capacity will vary from the specified capacity based on the length of time the transmission fluid pan is off the transmission. Avoid leaving the transmission fluid pan off for extend periods of time.

7. Transmission Fluid Strainer - Remove



1. Remove the transmission fluid strainer (A) with the O-ring (B).



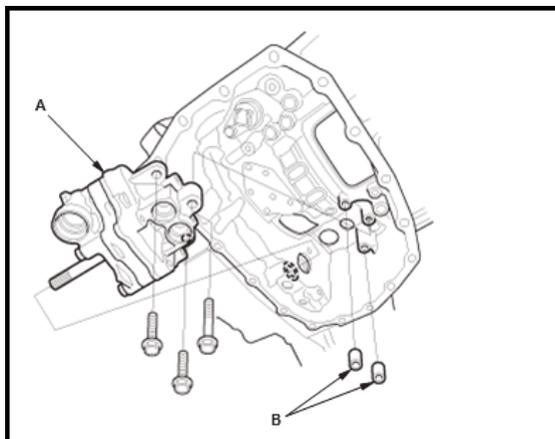
2. Clean the inlet opening (A) of the transmission fluid strainer (B) thoroughly with compressed air.

3. Check that it is in good condition and that the inlet opening is not clogged.

4. Test the strainer by pouring clean transmission fluid through the inlet opening, and replace it if it is clogged or damaged.

8. **Valve Body Assembly - Remove**

9. Transmission Fluid Pump - Remove



1. Remove the transmission fluid pump (A) with the dowel pins (B).

Installation

NOTE:

- Keep all foreign particles out of the transmission.
- Apply a light coat of clean transmission fluid on all O-rings before installation.

1. Transmission Fluid Pump - Install

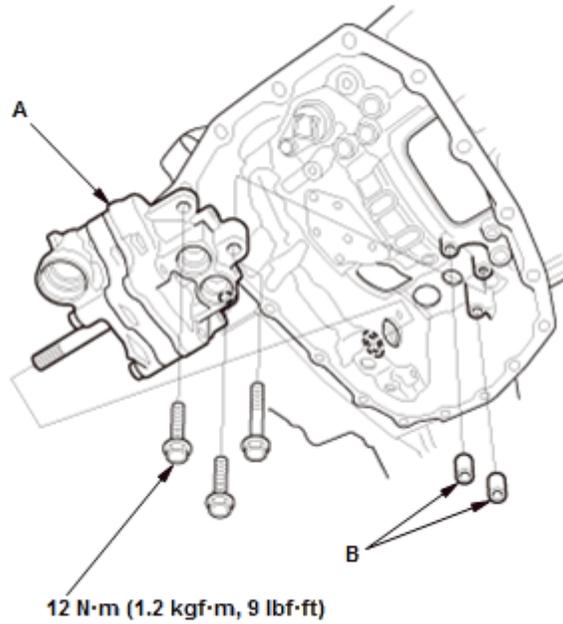


Fig. 32: Transmission Fluid Pump With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

1. Install the transmission fluid pump (A) with the dowel pins (B).

2. **Valve Body Assembly - Install**
3. Transmission Fluid Strainer - Install

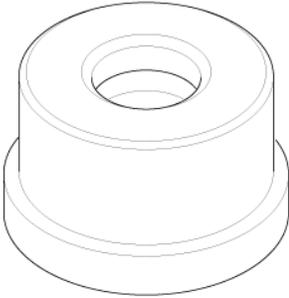
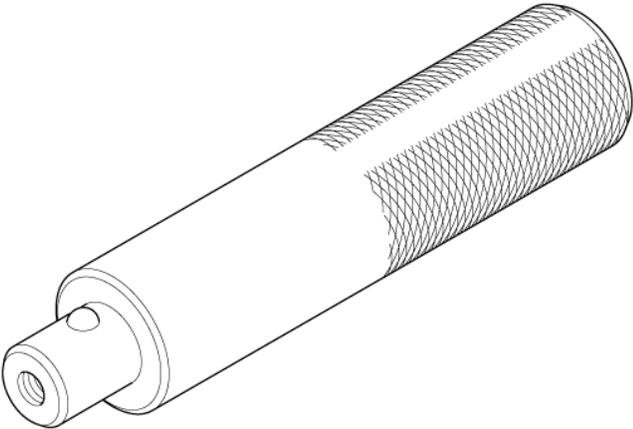
	<p>1. Install the transmission fluid strainer (A) with a new O-ring (B).</p> <p>NOTE: Be careful not to damage the solenoid wire harness and the O-ring while installing the transmission fluid strainer.</p>
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4. **Transmission Fluid Pan - Install**
5. **Transmission Fluid - Refill**
6. **Transmission Fluid Level - Check**
7. **Left Front Splash Shield - Install**
8. **Engine Undercover - Install** (With 2WD)

TRANSMISSION HOUSING CONTROL SHAFT OIL SEAL REPLACEMENT (CVT)

Special Tools Required

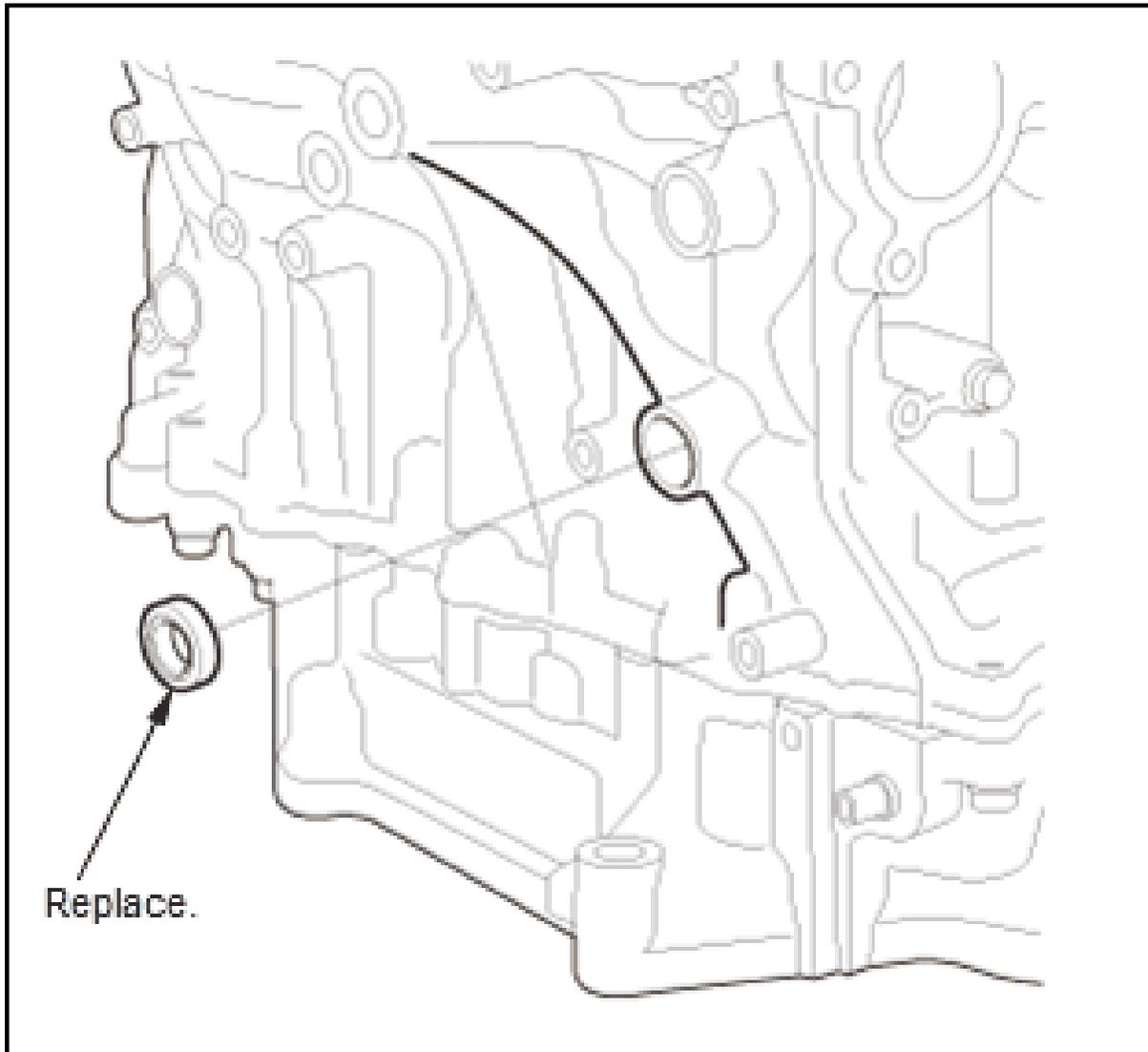
Image	Description/Tool Number
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Image	Description/Tool Number
	<p>Attachment, 22 x 24 mm 07746-001A800</p>
	<p>Driver Handle, 15 x 135L 07749-0010000</p>

Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

1. Control Shaft Oil Seal - Remove



2. Control Shaft Oil Seal - Install

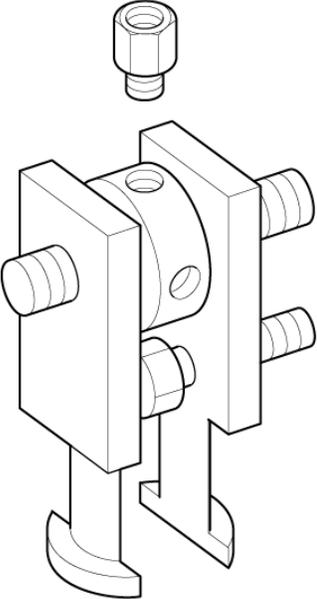
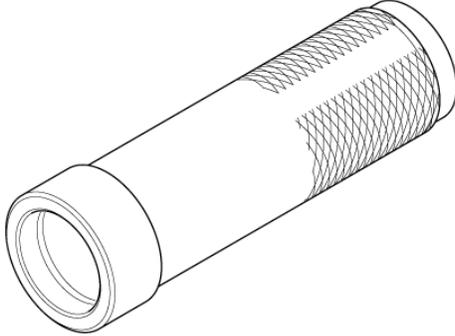
	<p>1. Install the oil seal (A) flush with the transmission housing using the 15 x 135L driver handle and the 22 x 24 mm bearing driver attachment.</p>
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TRANSMISSION HOUSING DRIVEN PULLEY SHAFT BEARING REPLACEMENT (CVT)

*: 07736-A01000B must be used with commercially available 3/8"-16 slide hammer.

Special Tools Required

Image	Description/Tool Number
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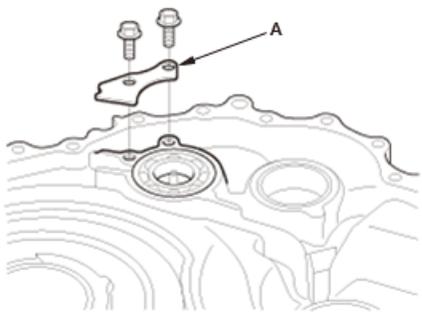
Image	Description/Tool Number
	Adjustable Bearing Puller, 25-40 mm 07736-A01000B*
	Driver Handle, 40 mm I.D. 07746-0030100

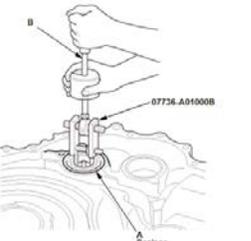
*: 07736-A01000B must be used with commercially available 3/8"-16 slide hammer.

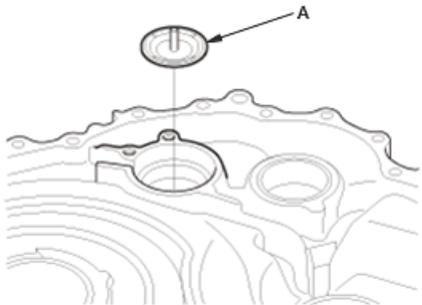
Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

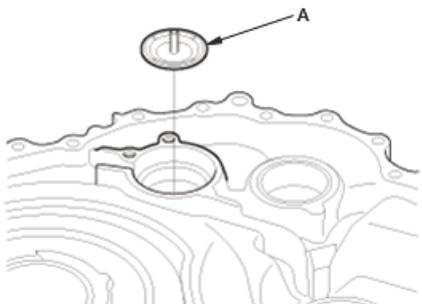
1. Driven Pulley Shaft Bearing - Remove

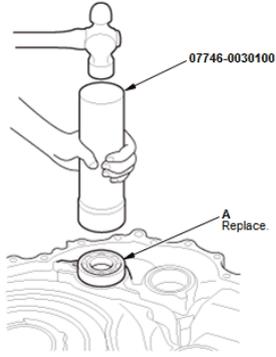
	<ol style="list-style-type: none"> 1. Remove the bearing set plate (A).
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	<p>2. Remove the driven pulley shaft bearing (A) using the 25-40 mm adjustable bearing puller and a commercially available 3/8"-16 slide hammer (B).</p>
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>3. Remove the oil guide plate (A).</p>
-----------------------------------------------------------------------------------	-------------------------------------------

2. Driven Pulley Shaft Bearing - Install

	<p>1. Install the oil guide plate (A).</p>
------------------------------------------------------------------------------------	--------------------------------------------

	<p>2. Install the driven pulley shaft bearing (A) until it bottoms using the 40 mm I.D. driver handle.</p>
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

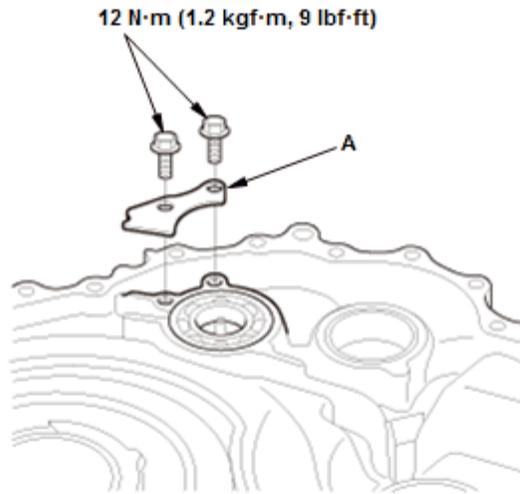


Fig. 33: Bearing Set Plate With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

3. Install the bearing set plate (A).

TRANSMISSION HOUSING SECONDARY DRIVE GEAR REMOVAL AND INSTALLATION (CVT)

Special Tools Required

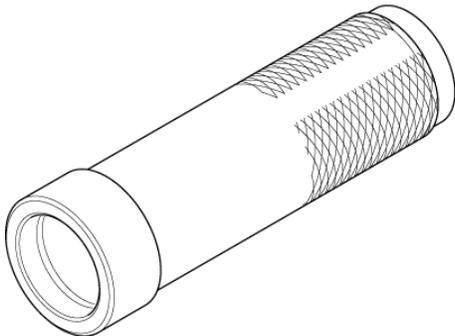
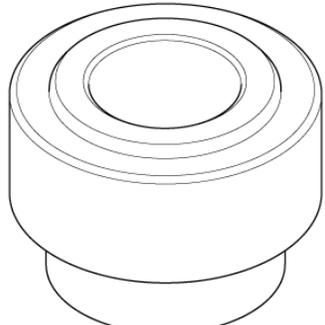
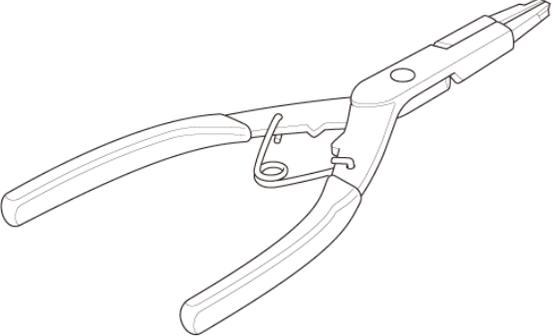
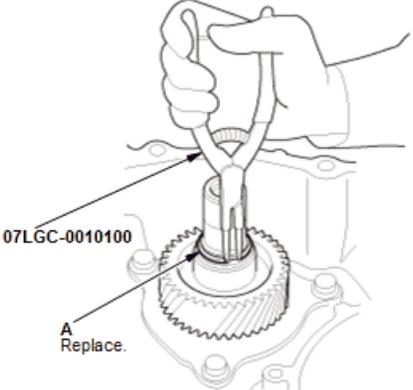
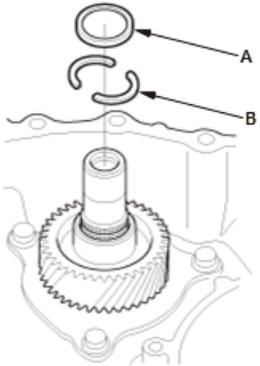
Image	Description/Tool Number
	Driver Handle, 40 mm I.D. 07746-0030100
	Bearing Driver Attachment, 30 mm I.D. 07746-0030300

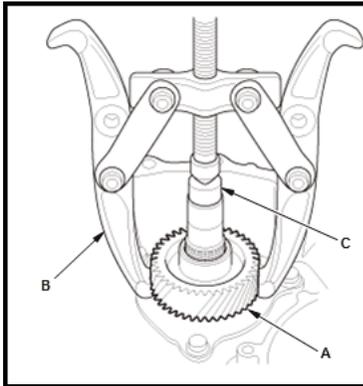
Image	Description/Tool Number
	<p>Snap Ring Pliers 07LGC-0010100</p>

Removal

1. Secondary Drive Gear - Remove

	<p>1. Remove the snap ring (A) using the snap ring pliers.</p>
------------------------------------------------------------------------------------	----------------------------------------------------------------

	<p>2. Remove the cotter retainer (A) and the cotters (B).</p>
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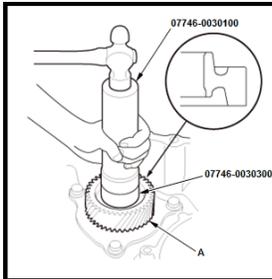


3. Remove the secondary drive gear (A) using a puller (B) and a spacer (C).

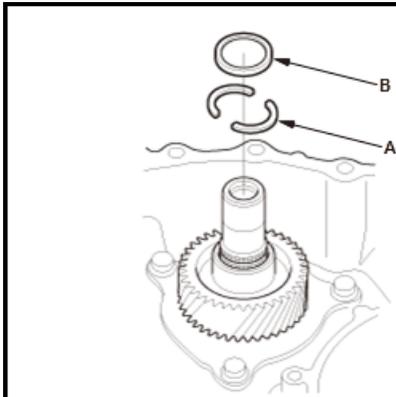
Installation

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

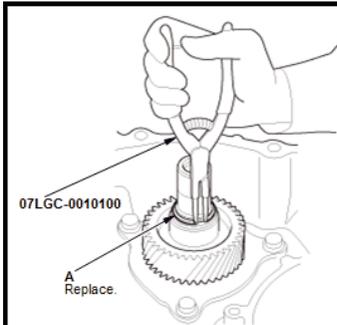
1. Secondary Drive Gear - Install



1. Install the secondary drive gear (A) as shown using the 40 mm I.D. driver handle and the 30 mm I.D. bearing driver attachment.



2. Install the cotters (A) and the cotter retainer (B).



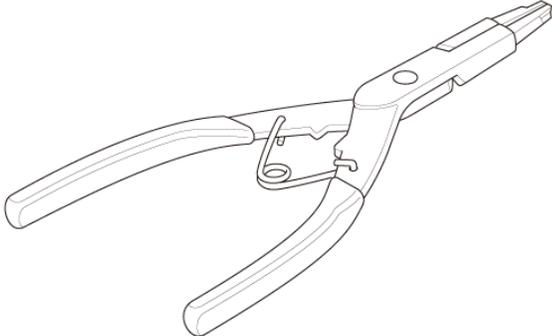
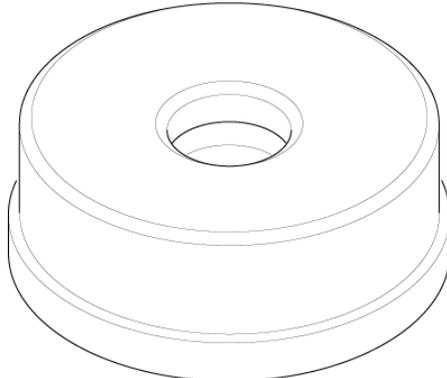
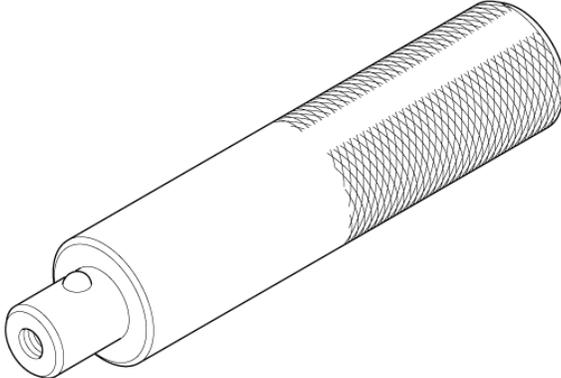
3. Install a new snap ring (A) using the snap ring pliers.

NOTE:

- Be careful not to deform the snap ring by opening/closing it excessively.
- Make sure the snap ring is firmly installed in the groove.

TRANSMISSION HOUSING TRANSMISSION FLUID PUMP DRIVE SPROCKET BEARING REPLACEMENT (CVT)

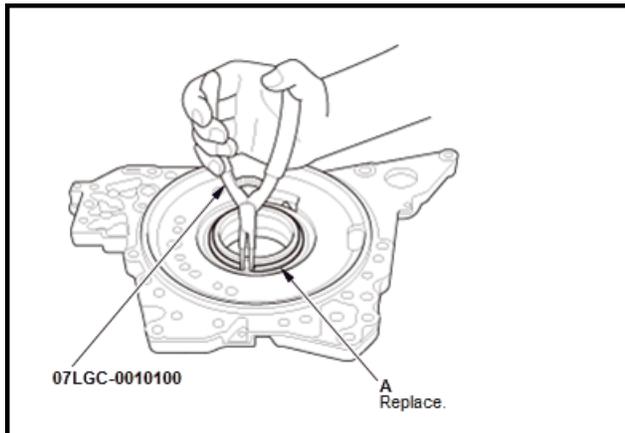
Special Tools Required

Image	Description/Tool Number
 A pair of snap ring pliers with long handles and a curved tip, designed for installing and removing snap rings.	Snap Ring Pliers 07LGC-0010100
 A cylindrical bearing driver attachment with a central hole and a flange on one end.	Bearing Driver Attachment, 52 x 55 mm 07746-0010400
 A cylindrical driver handle with a textured grip section and a threaded end.	Driver Handle, 15 x 135L 07749-0010000

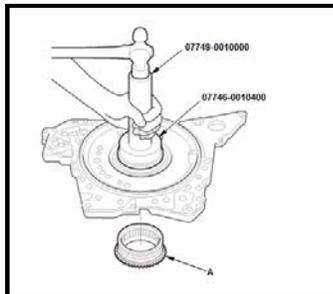
Replacement

NOTE: Apply a light coat of clean transmission fluid on all parts before installation.

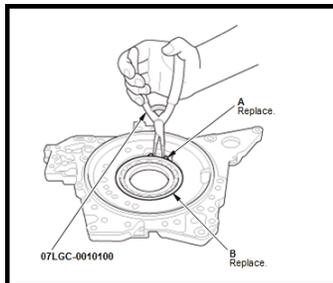
1. Transmission Fluid Pump Drive Sprocket Bearing - Remove



1. Remove the snap ring (A) using the snap ring pliers.

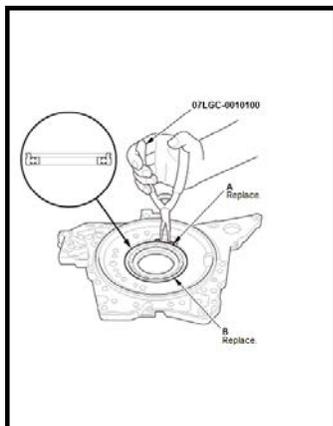


2. Remove the transmission fluid pump drive sprocket (A) using the 15 x 135L driver handle and the 52 x 55 mm bearing driver attachment.



3. While expanding the snap ring (A) using the snap ring pliers, remove the transmission fluid pump drive sprocket bearing (B).
4. Remove the snap ring.

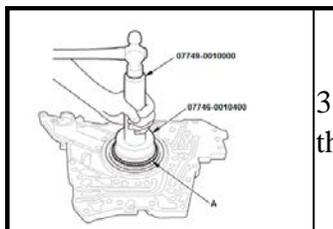
2. Transmission Fluid Pump Drive Sprocket Bearing - Install



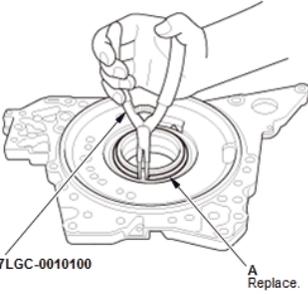
1. Install a new snap ring (A).
NOTE:

- Be careful not to deform the snap ring by opening/closing it excessively.
- Make sure the snap ring is firmly installed in the groove.

2. While expanding the snap ring using the snap ring pliers, install the transmission fluid pump drive sprocket bearing (B) as shown.
NOTE: Make sure the snap ring is firmly installed in the groove.



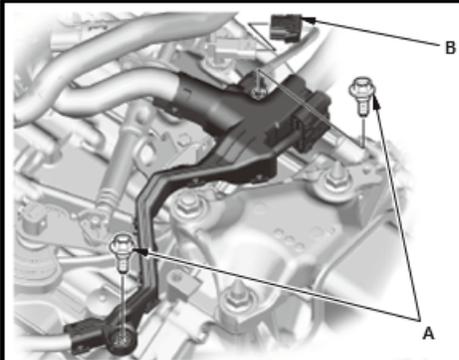
3. Install the transmission fluid pump drive sprocket (A) until it bottoms using the 15 x 135L driver handle and the 52 x 55 mm bearing driver attachment.

	<p>4. Install a new snap ring (A) using the snap ring pliers.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Be careful not to deform the snap ring by opening/closing it excessively. • Make sure the snap ring is firmly installed in the groove.
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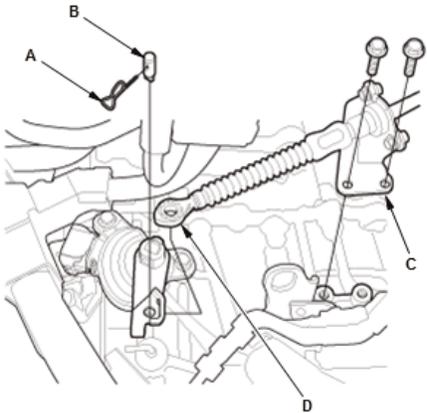
TRANSMISSION RANGE SWITCH REMOVAL AND INSTALLATION (CVT)

Removal

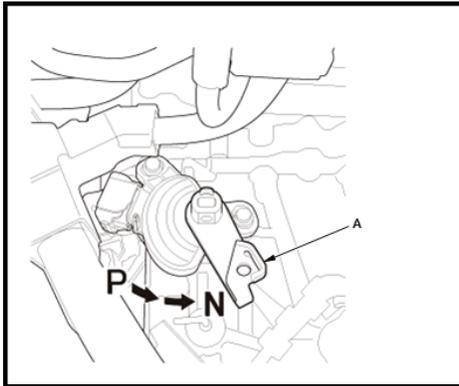
1. Front Grille Cover - Remove
2. Air Cleaner - Remove
3. Harness Cover - Remove

	<ol style="list-style-type: none"> 1. Remove the bolts (A). 2. Disconnect the connector (B).
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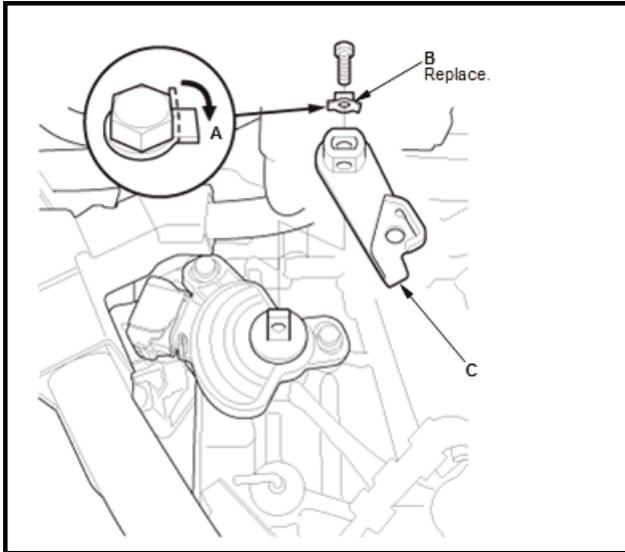
4. Shift Cable (Transmission Side) - Remove

	<ol style="list-style-type: none"> 1. Remove the lock pin (A) and the control pin (B). 2. Remove the shift cable bracket (C) and the shift cable end (D). <p>NOTE: Do not bend the shift cable excessively.</p>
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5. Control Lever - Remove

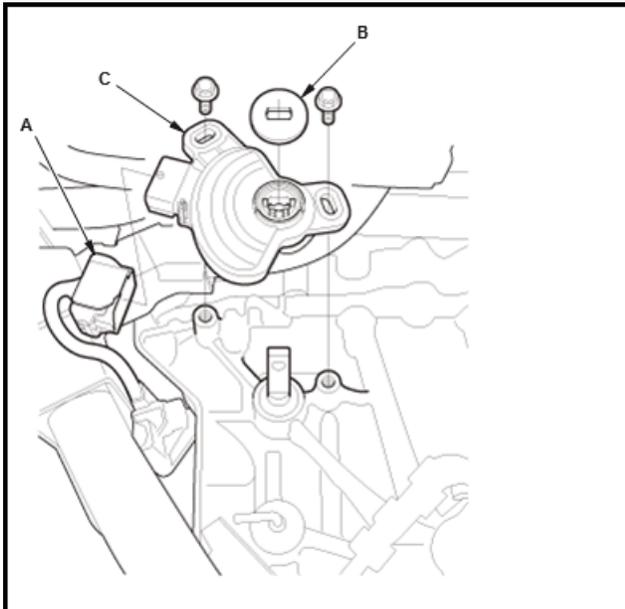


1. Turn the control lever (A) to the P position, then turn it back two clicks to the N position.



2. Pry down the lock tab (A) of the lock washer (B).
3. Remove the control lever (C) and the lock washer.

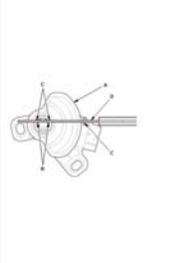
6. Transmission Range Switch - Remove

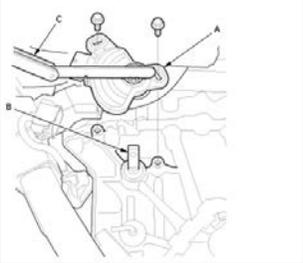


1. Disconnect the connector (A).
2. Remove the control shaft cover (B).
3. Remove the transmission range switch (C).

Installation

1. Transmission Range Switch - Install

	<p>1. Set the transmission range switch (A) to the N position. Align the cutouts (B) on the rotary-frame with the N positioning cutouts (C) on the transmission range switch, then put a 2.0 mm (0.079 in) feeler gauge (D) in the cutouts to hold the transmission range switch in the N position.</p> <p>NOTE: Be sure to use a 2.0 mm (0.079 in) feeler gauge or equivalent to hold the transmission range switch in the N position.</p>
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	<p>2. Install the transmission range switch (A) gently on the control shaft (B) while holding it in the N position with the 2.0 mm (0.079 in) feeler gauge (C).</p>
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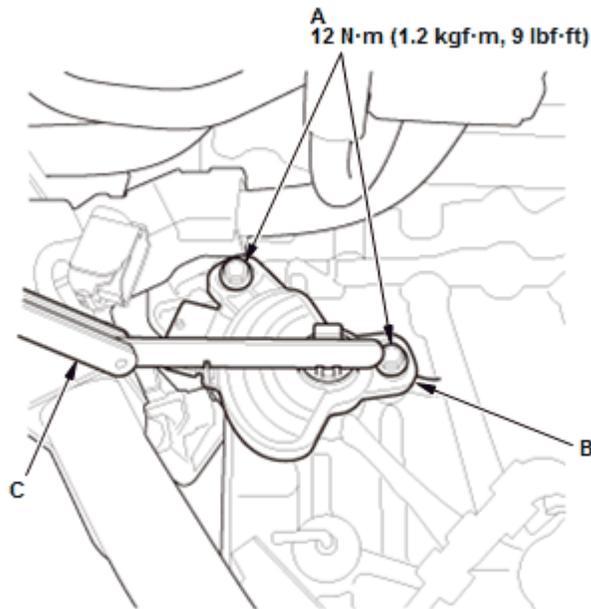
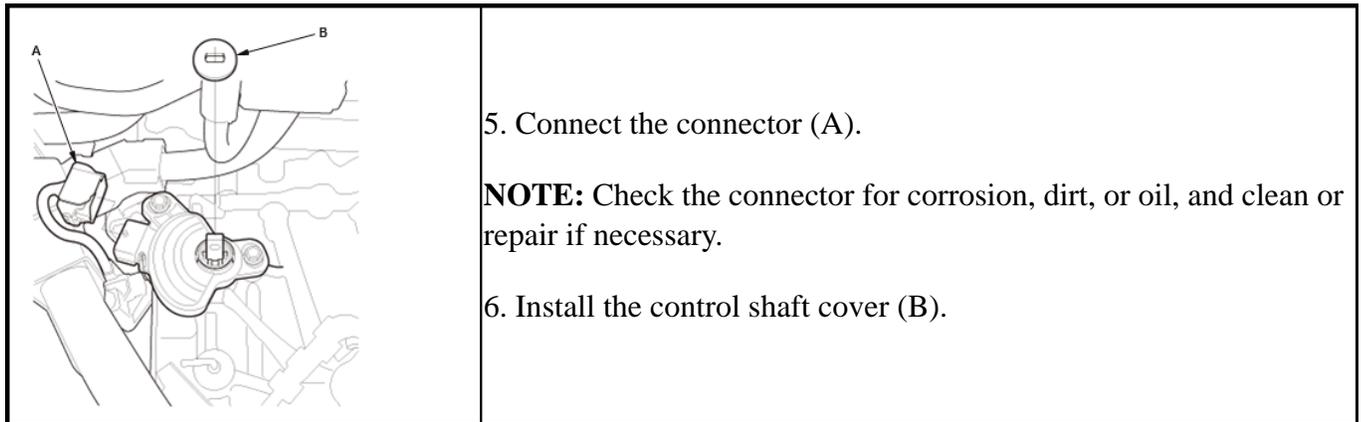


Fig. 34: Transmission Range Switch With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

<p>Â</p>	<p>3. Tighten the bolts (A) on the transmission range switch (B) while you continue holding the N position.</p> <p>4. Remove the feeler gauge (C).</p>
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2. Control Lever - Install

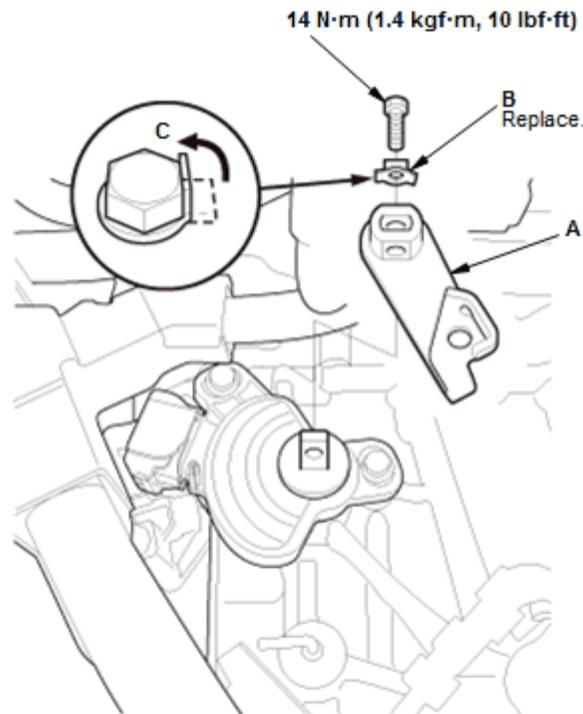
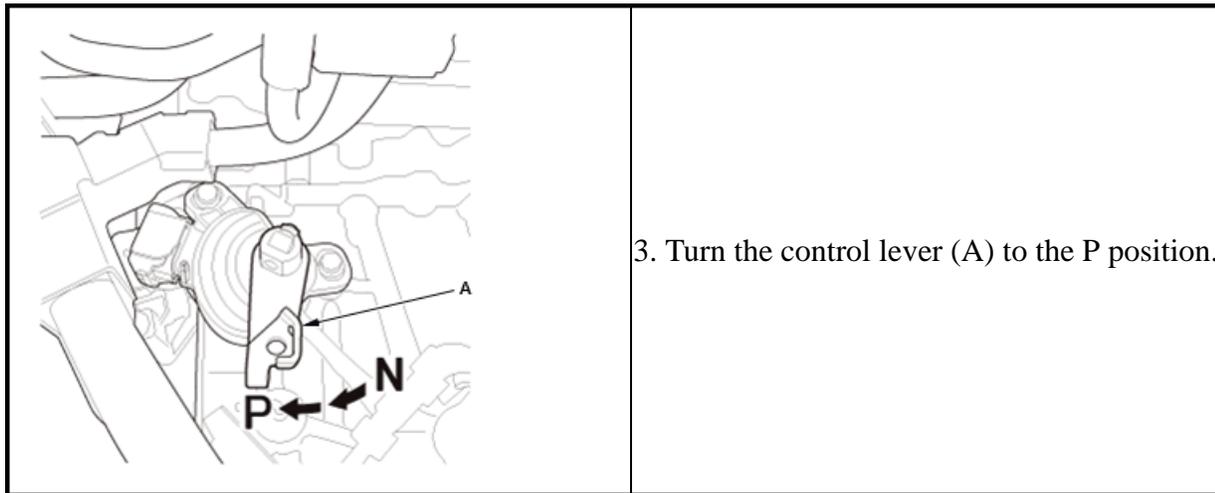


Fig. 35: Control Lever With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

<p>1. Install the control lever (A) as shown.</p> <p>2. Secure the control lever with a new lock washer (B), then pry up the lock tab (C) of the lock washer against the bolt head.</p>	<p>1. Install the control lever (A) as shown.</p> <p>2. Secure the control lever with a new lock washer (B), then pry up the lock tab (C) of the lock washer against the bolt head.</p>
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3. Shift Cable (Transmission Side) - Install

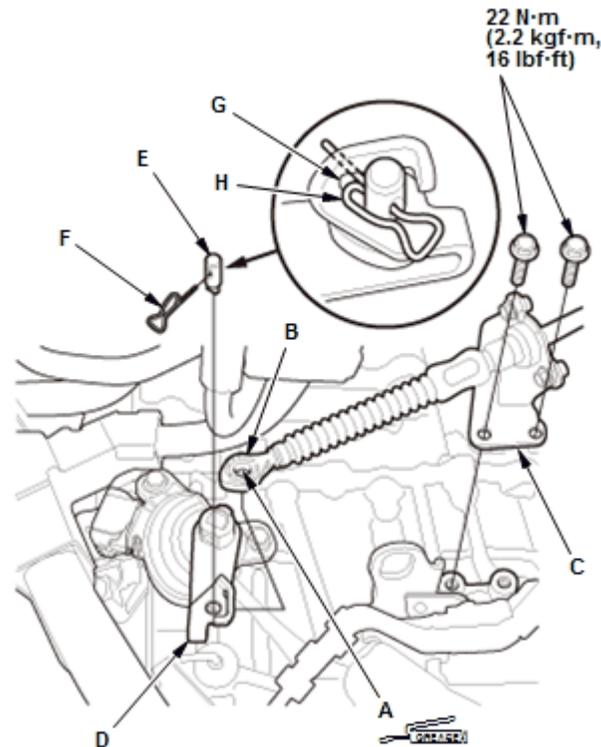


Fig. 36: Shift Cable (Transmission Side) With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

1. Apply molybdenum grease to the inner surface of the hole (A) in the shift cable end (B).
 2. Install the shift cable bracket (C) while installing the shift cable end to the control lever (D).
- NOTE:** Do not bend the shift cable excessively.
3. Install the control pin (E).
 4. Insert the lock pin (F) in the direction shown through the control pin hole and out the opening (G) of the control lever so that the hooked end (H) of the lock pin locks into the control pin hole.

4. **Shift Cable - Adjust**
5. **Harness Cover - Install**

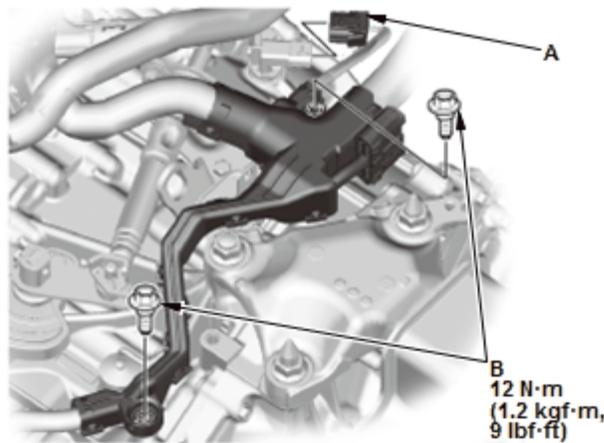


Fig. 37: Harness Cover With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

Â	<ol style="list-style-type: none"> 1. Connect the connector (A). 2. Install the bolts (B).
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6. **Air Cleaner - Install**
7. **Front Grille Cover - Install**
8. **Transmission Range Switch - After Install Check.**

Â	<ol style="list-style-type: none"> 1. Start the engine. <p>NOTE: Check that the engine starts in P or N position/mode, and does not start in any other positions / modes.</p> <ol style="list-style-type: none"> 2. Check the shift lever operation. 3. Move the shift lever through all positions / modes, and verify the transmission range switch matches with the A/T gear position indicator. 4. Check that the back-up lights come on when the transmission is in R position/mode. 5. Make sure the vehicle is turned to the OFF (LOCK) mode with the shift lever is in P position/mode. If it does not, <u>adjust the shift cable</u> .
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VALVE BODY ASSEMBLY REMOVAL AND INSTALLATION (CVT)

Removal

NOTE:

- Keep all foreign particles out of the transmission.
- The valve body assembly and the following parts are not available separately. Replace them as a set.

- CVT clutch pressure control solenoid valve
- CVT drive pulley pressure control solenoid valve
- CVT driven pulley pressure control solenoid valve
- CVT lock-up clutch control solenoid valve
- Shift solenoid valve B

1. **Vehicle - Lift**

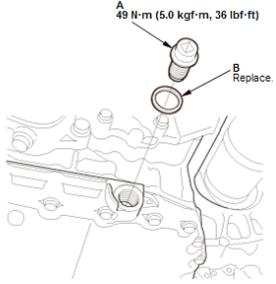
2. **Engine Undercover - Remove** (With 2WD).

3. **Left Front Splash Shield - Remove**

4. Engine - Warm Up

A	<ol style="list-style-type: none"> 1. Start the engine, and warm it up to normal operating temperature (the radiator fan comes on twice). 2. Turn the engine off.
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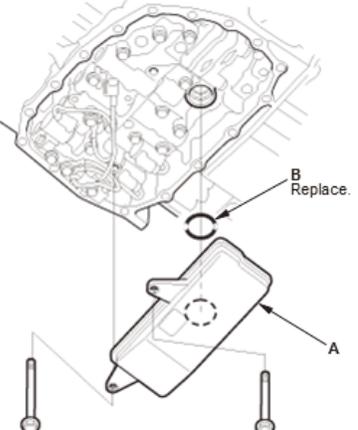
5. Transmission Fluid - Drain

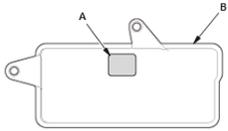
	<ol style="list-style-type: none"> 1. Remove the drain plug (A) with the sealing washer (B), and drain the transmission fluid for at least 5 minutes. <p>NOTE:</p> <ul style="list-style-type: none"> • Remove metal particles from the magnetic surface of the drain plug. • Be careful not to burn yourself by the hot part. <ol style="list-style-type: none"> 2. Reinstall the drain plug with a new sealing washer.
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6. **Transmission Fluid Pan - Remove**

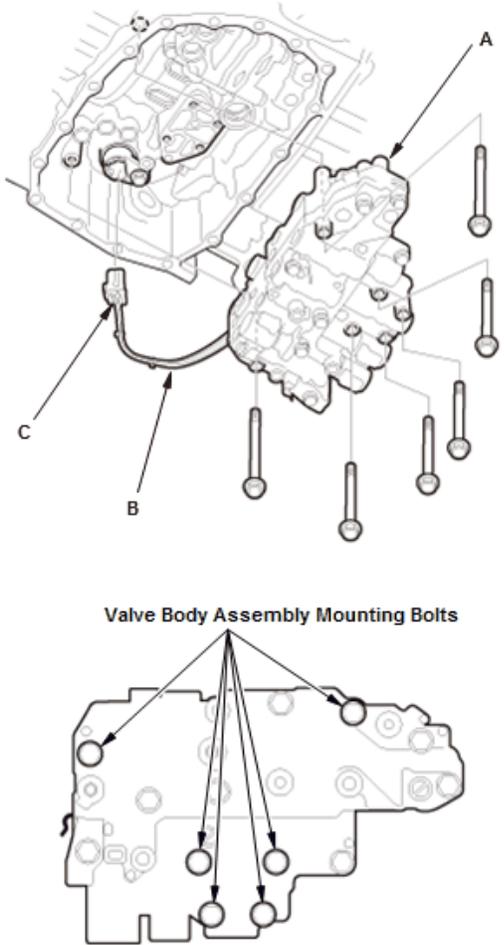
NOTE: The actual transmission fluid (HCF-2) capacity will vary from the specified capacity based on the length of time the transmission fluid pan is off the transmission. Avoid leaving the transmission fluid pan off for extend periods of time.

7. Transmission Fluid Strainer - Remove

	<ol style="list-style-type: none"> 1. Remove the transmission fluid strainer (A) with the O-ring (B).
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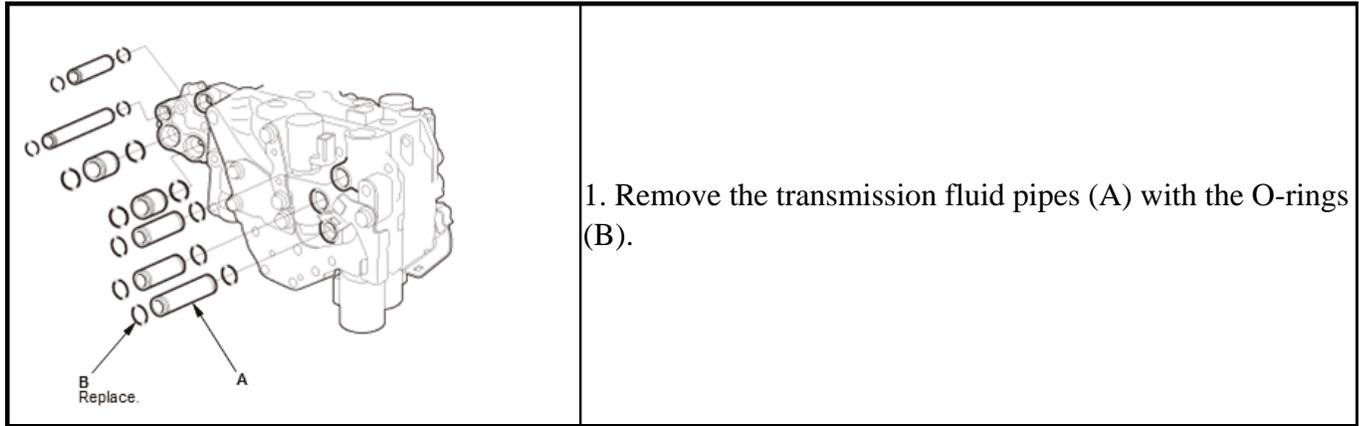
	<ol style="list-style-type: none"> 2. Clean the inlet opening (A) of the transmission fluid strainer (B) thoroughly with compressed air. 3. Check that it is in good condition and that the inlet opening is not clogged. 4. Test the strainer by pouring clean transmission fluid through the inlet opening, and replace it if it is clogged or damaged.
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8. Valve Body Assembly - Remove

 <p style="text-align: center;">Valve Body Assembly Mounting Bolts</p>	<ol style="list-style-type: none"> 1. Remove the valve body assembly (A). <p>NOTE: Do not damage the solenoid wire harness (B).</p> <ol style="list-style-type: none"> 2. Disconnect the connector (C). <p>NOTE: Check the connector for corrosion, dirt, or oil, and clean or repair if necessary.</p>
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9. Solenoid Wire Harness - Remove

10. Transmission Fluid Pipe - Remove

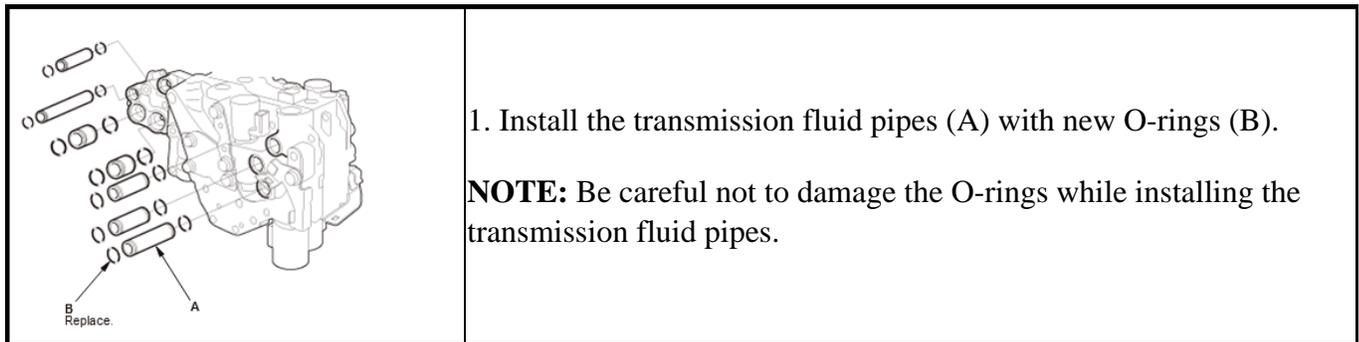


Installation

NOTE:

- Keep all foreign particles out of the transmission.
- The valve body assembly and the following parts are not available separately. Replace them as a set.
 - CVT clutch pressure control solenoid valve
 - CVT drive pulley pressure control solenoid valve
 - CVT driven pulley pressure control solenoid valve
 - CVT lock-up clutch control solenoid valve
 - Shift solenoid valve B
- Apply a light coat of clean transmission fluid on all O-rings before installation.

1. Transmission Fluid Pipe - Install



2. **Solenoid Wire Harness - Install**

3. Valve Body Assembly - Install

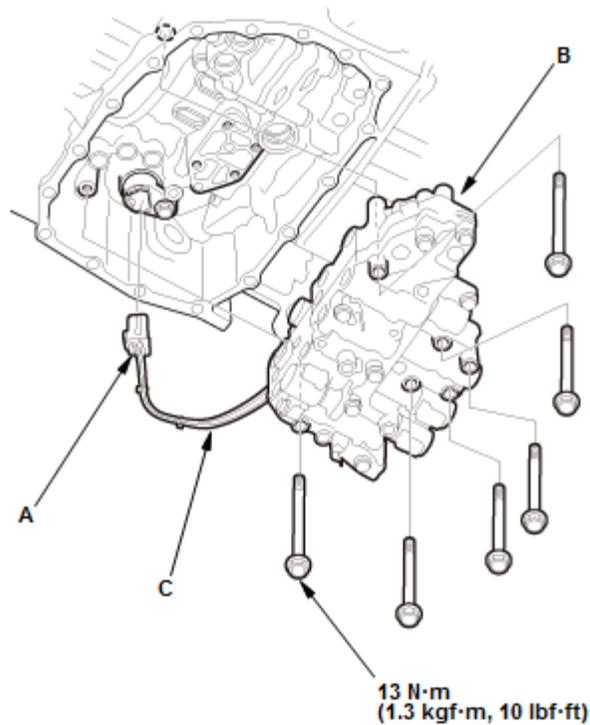


Fig. 38: Valve Body Assembly With Torque Specifications

Courtesy of HONDA, U.S.A., INC.

	<ol style="list-style-type: none"> 1. Connect the connector (A). 2. Install the valve body assembly (B). <p>NOTE: Be careful not to damage the solenoid wire harness (C) and the O-rings while installing the valve body assembly.</p> <p>Length of Bolt</p>
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D	90 mm (3.54 in)
E	65 mm (2.56 in)

4. Transmission Fluid Strainer - Install

	<ol style="list-style-type: none"> 1. Install the transmission fluid strainer (A) with a new O-ring (B). <p>NOTE: Be careful not to damage the solenoid wire harness and the O-ring while installing the transmission fluid strainer.</p>
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5. Transmission Fluid Pan - Install

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6. **Transmission Fluid - Refill**
 7. **Transmission Fluid Level - Check**
 8. **Left Front Splash Shield - Install**
 9. **Engine Undercover - Install** (With 2WD)
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