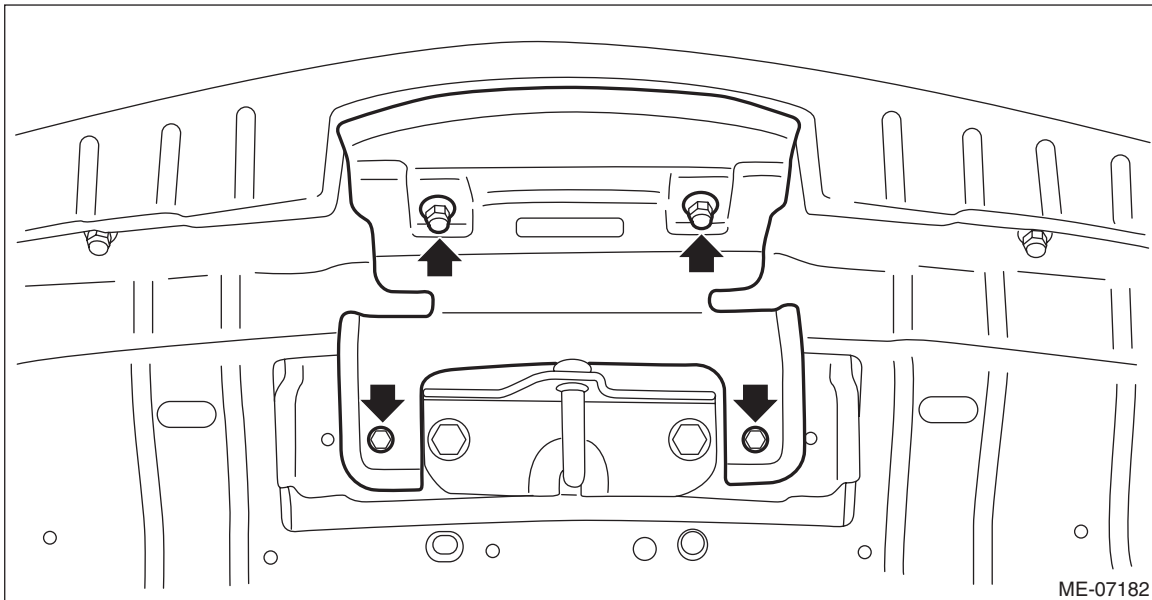


## 13.Oil Level Switch

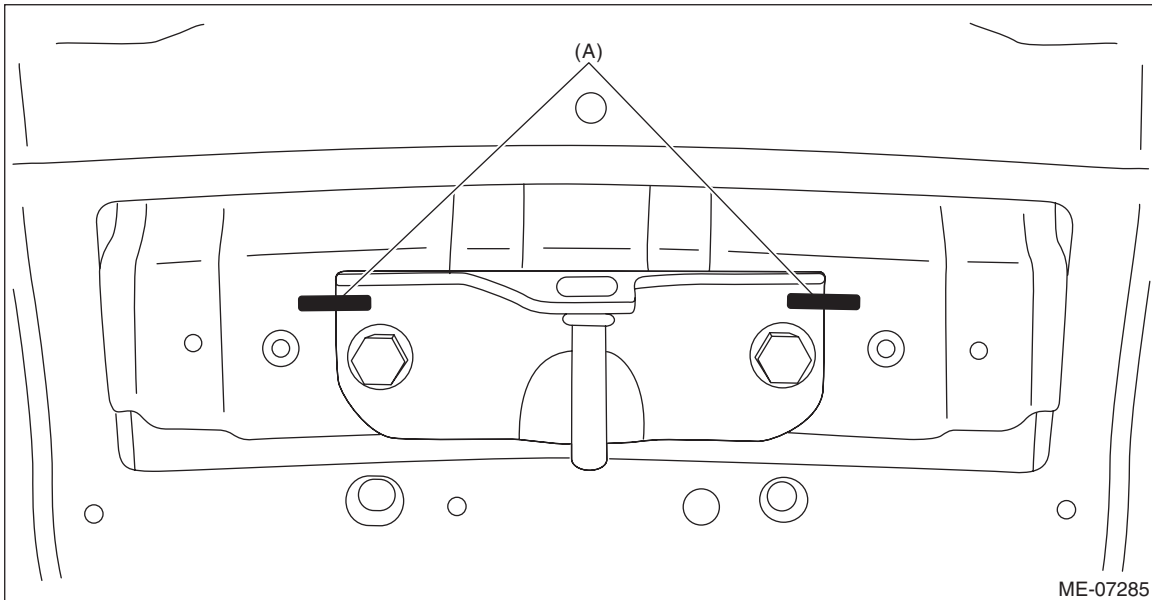
### A: REMOVAL

#### 1. NON-TURBO MODEL

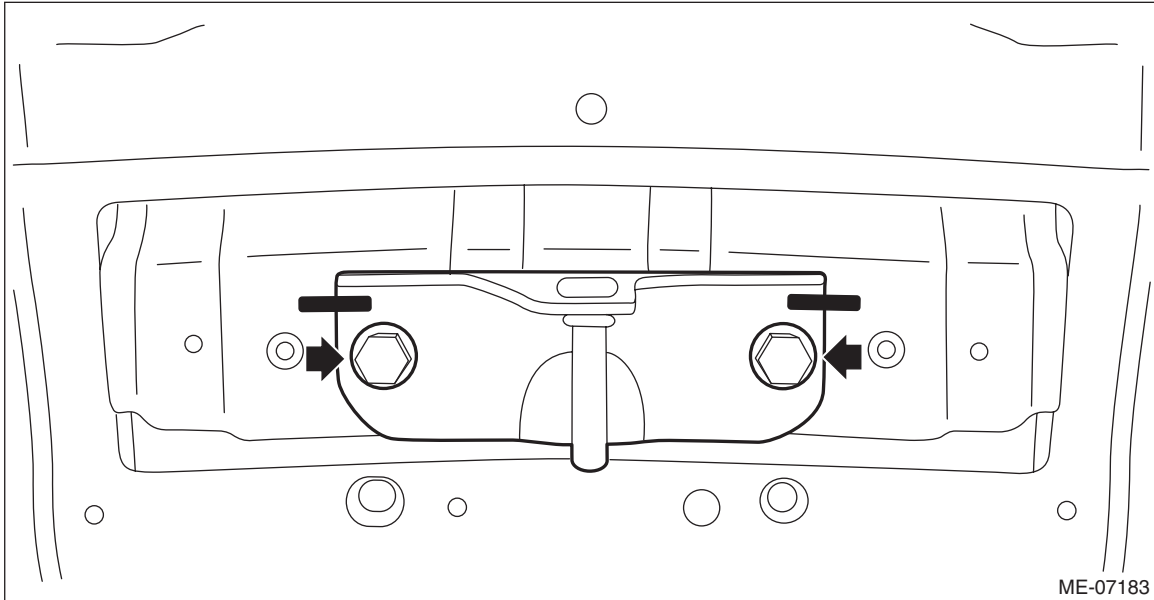
1) Open the front hood, and remove the upper grille bracket from the front hood.



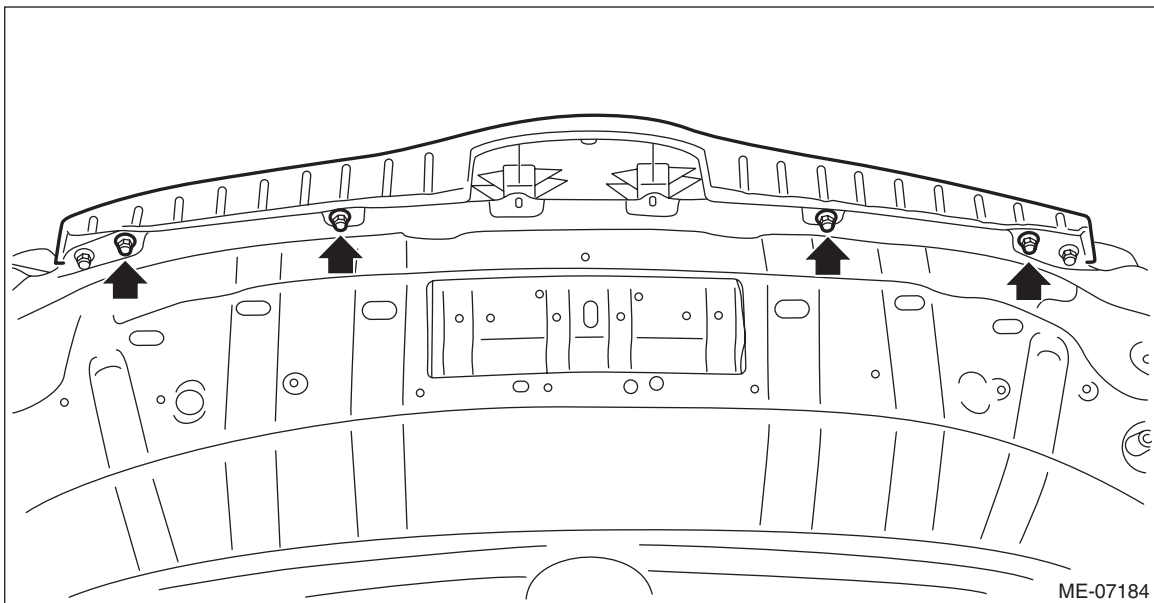
2) Using a marker pen, make alignment marks (A) on both the front hood striker and the front hood.



3) Remove the front hood striker from the front hood.



4) Remove the front center grille assembly from the front hood.



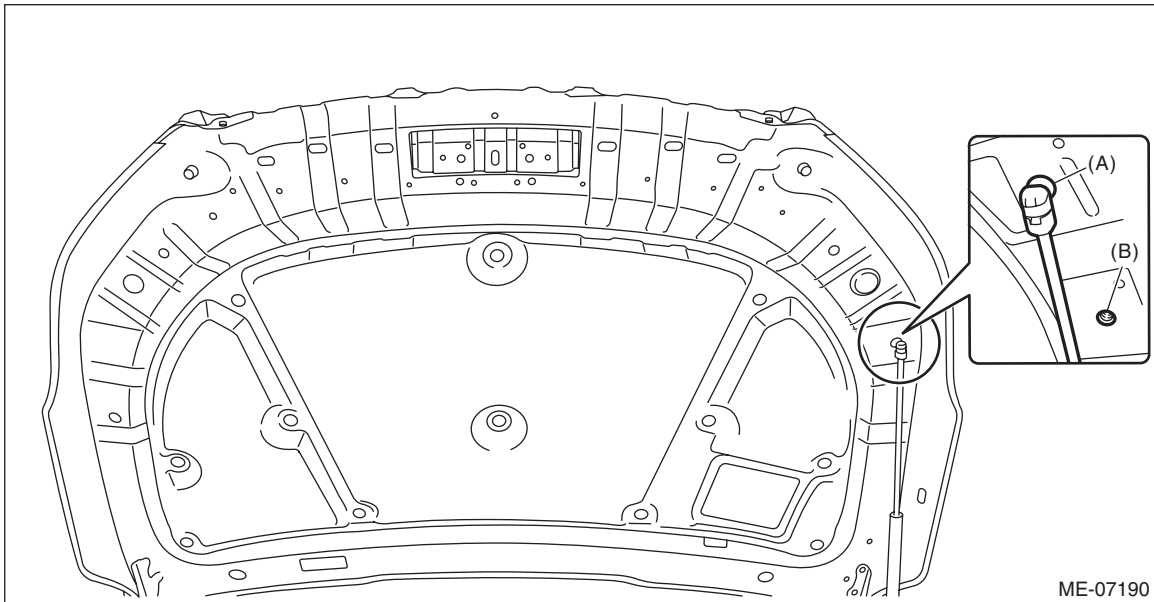
## Oil Level Switch

### LUBRICATION

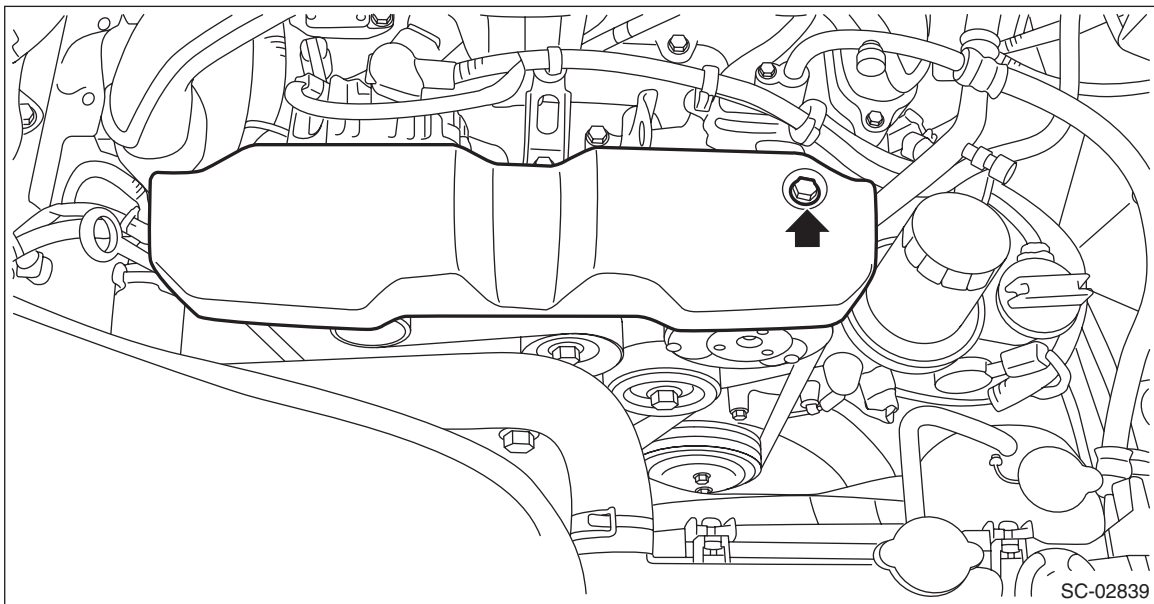
5) Change the front hood damper mounting position from (A) to (B), and completely open the front hood.

**Tightening torque:**

**20 N·m (2.0 kgf-m, 14.8 ft-lb)**



6) Remove the V-belt covers.



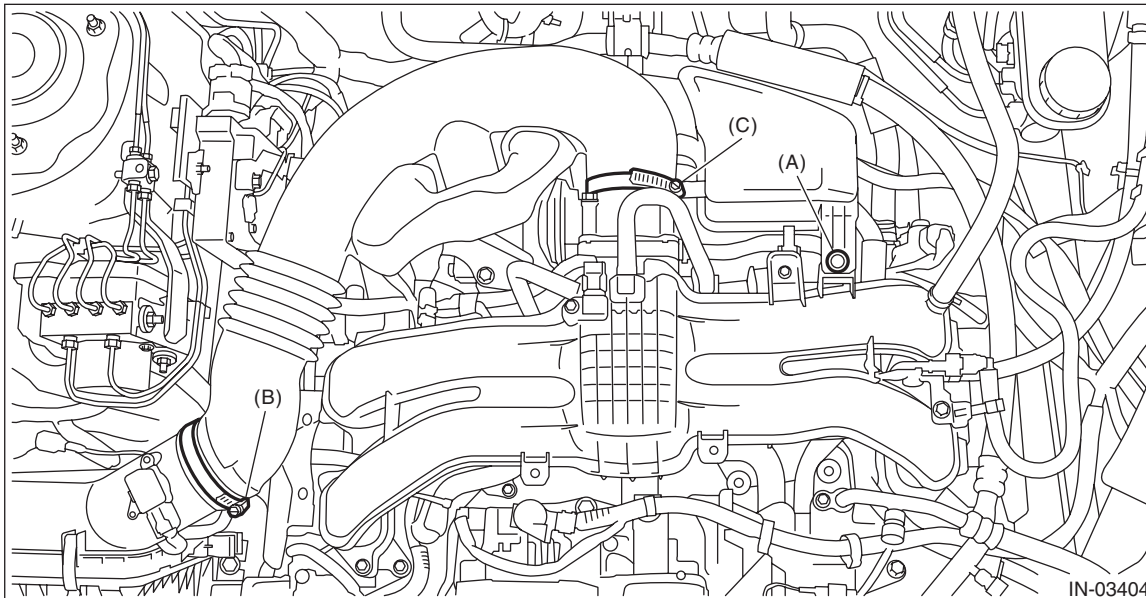
7) Disconnect the ground cable from battery.

8) Remove the air intake duct (rear). <Ref. to IN(H4DO)-12, REMOVAL, Air Intake Duct.>

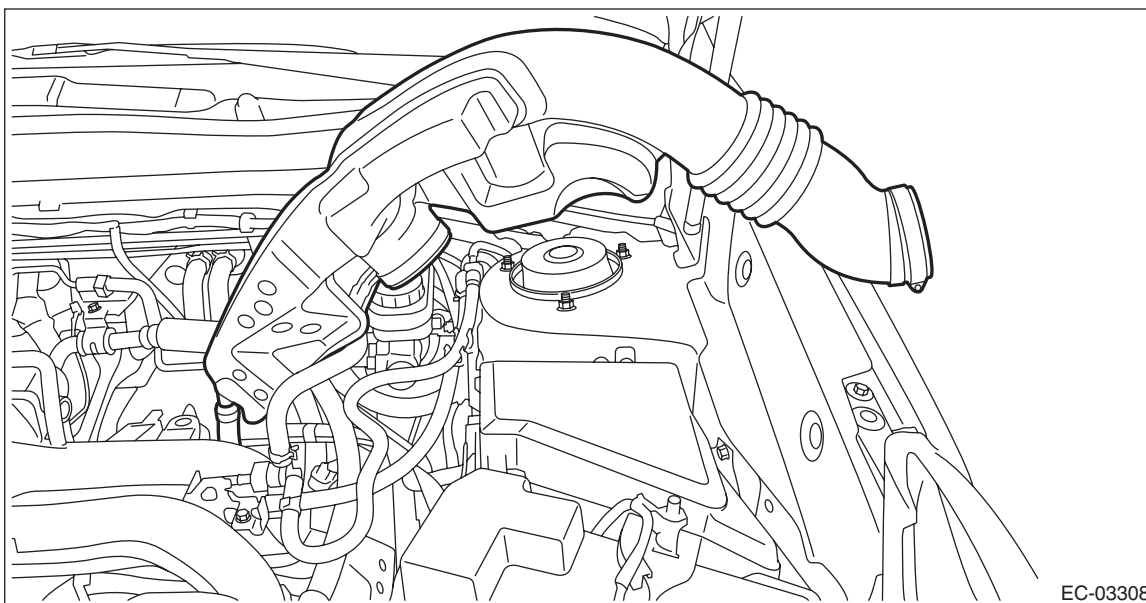
9) Remove the clip (A) from the air intake boot.

10) Loosen the clamp (B) securing the air cleaner case (rear) to the air intake boot.

- 11) Loosen the clamp (C) which secures the throttle body to the air intake boot.



- 12) Remove the air intake boot from the throttle body, and move it to the left side wheel apron.

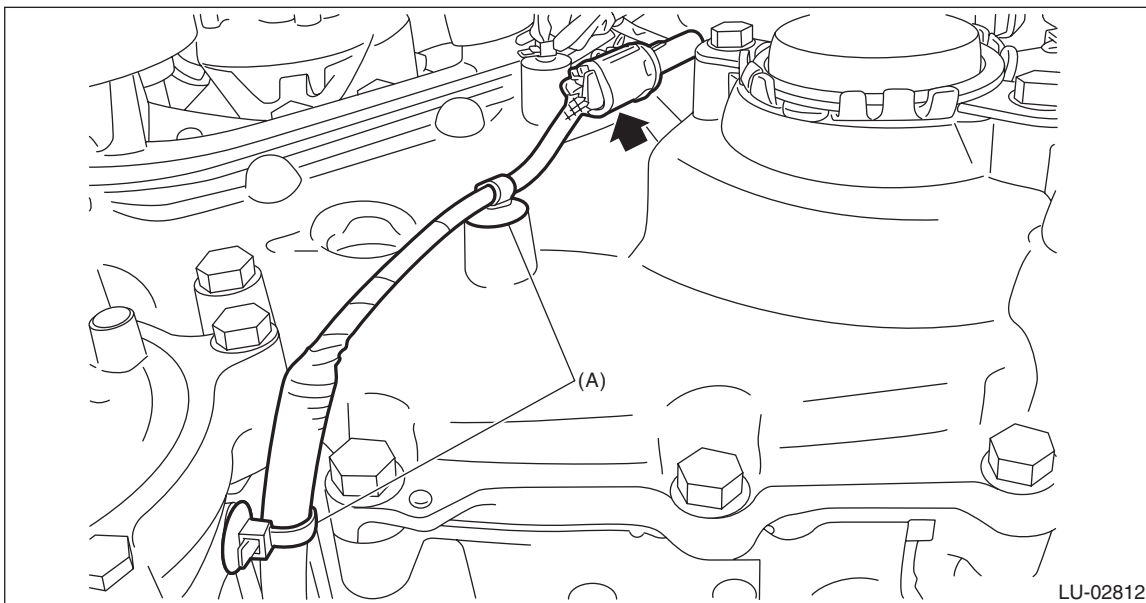


- 13) Lift up the vehicle.  
14) Remove the under cover. <Ref. to EI-22, REMOVAL, Front Under Cover.>  
15) Drain the engine oil. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.>  
16) Remove the under cover front - transmission.  
17) Remove the front exhaust pipe. <Ref. to EX(H4DO)-6, REMOVAL, Front Exhaust Pipe.>

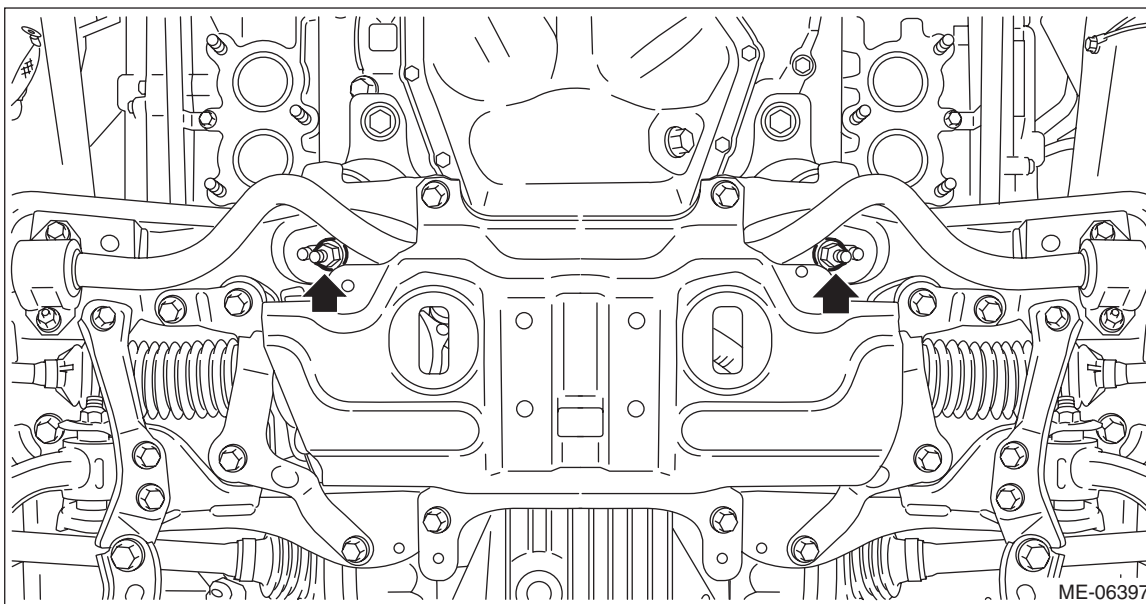
## Oil Level Switch

### LUBRICATION

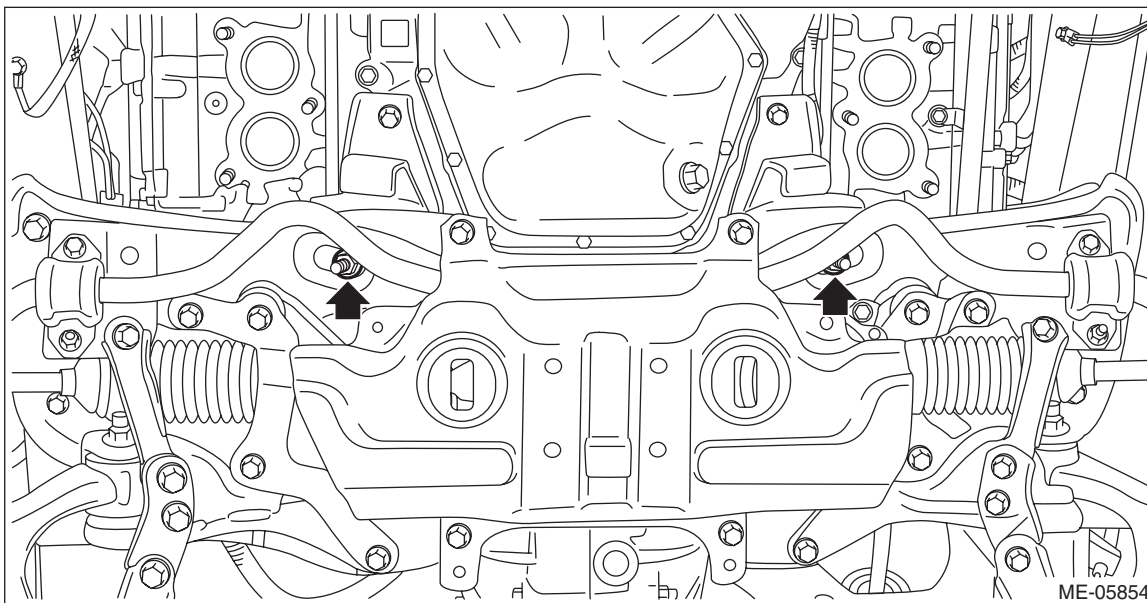
18) Disconnect the oil level switch connector from the engine harness, and remove the clip (A) securing the harness.



19) Remove the nuts which secure the engine mounting to the front crossmember. (Hydraulic engine mounting model)



20) Remove the nuts which secure the engine mounting to the front crossmember. (Solid engine mounting model)

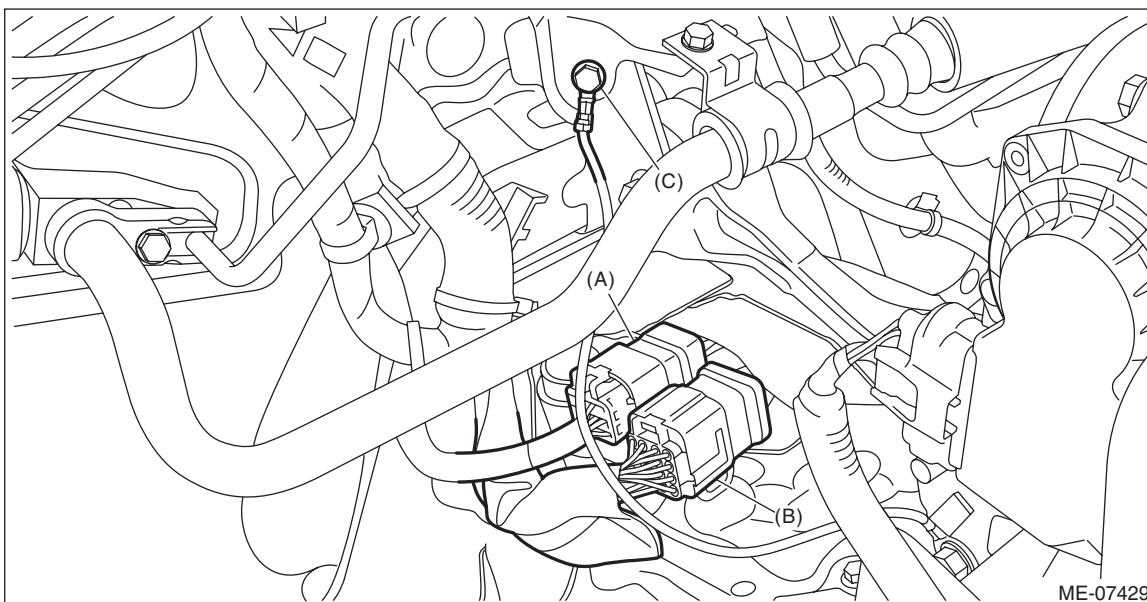


21) Remove the electric power steering gearbox. <Ref. to PS-25, REMOVAL, Electric Power Steering Gearbox.>

22) Remove the front drive shaft LH. <Ref. to DS-55, REMOVAL, Front Drive Shaft.>

23) Lower the vehicle.

24) Disconnect the bulkhead connector from the transmission harness connector (A) and the inhibitor harness connector (B), and remove the transmission radio ground terminal (C) from the vehicle. (CVT model)



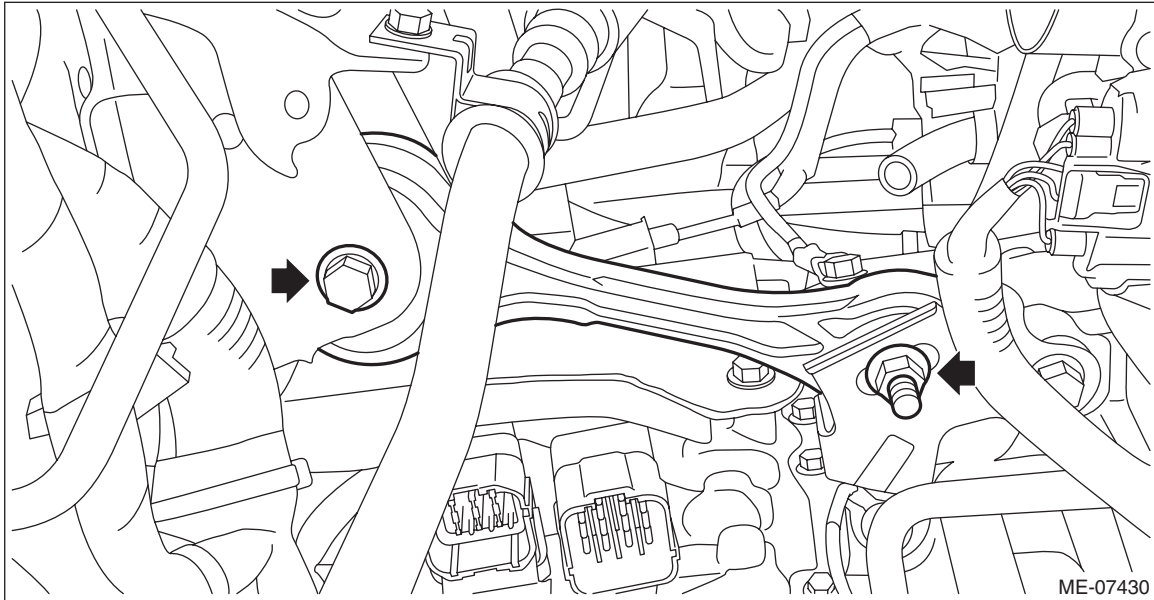


## Oil Level Switch

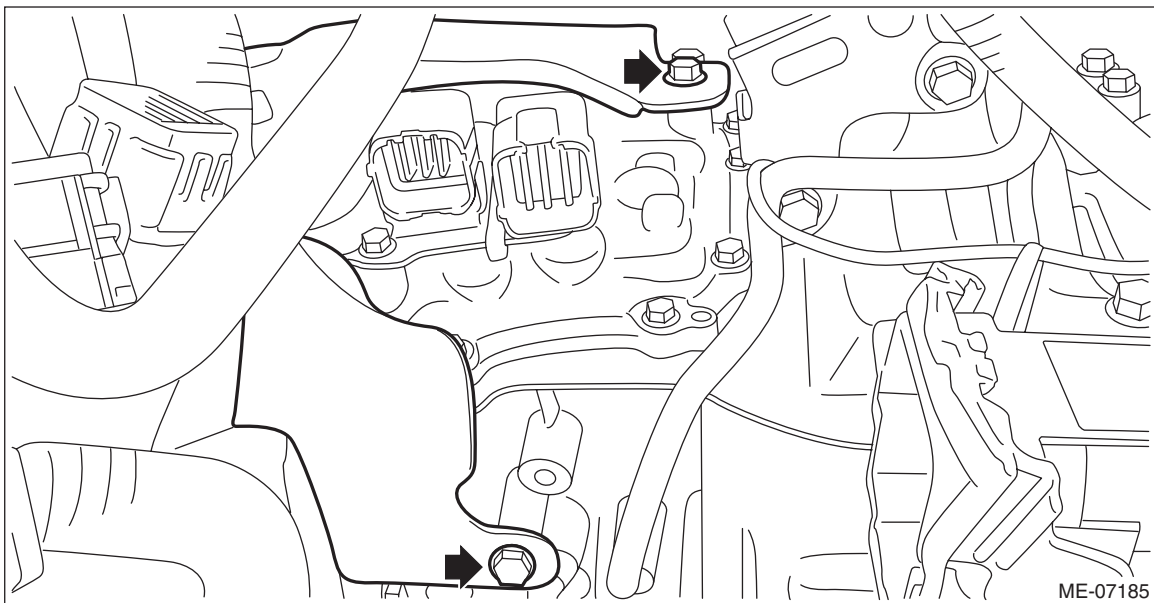
### LUBRICATION

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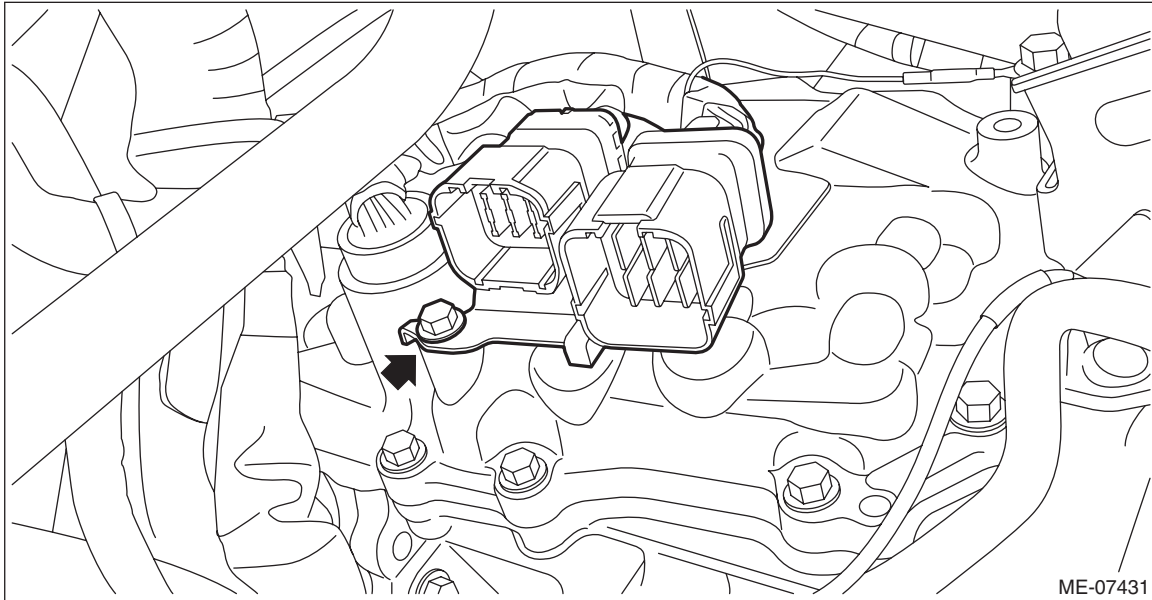
25) Remove the pitching stopper.



26) Remove the transmission cover. (CVT model)



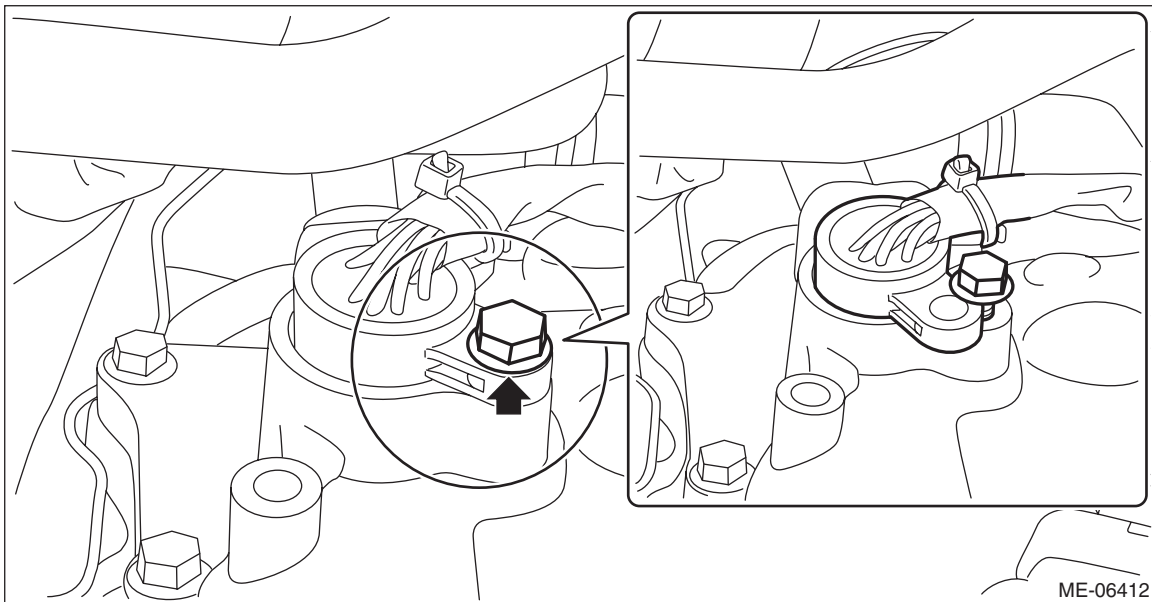
27) Remove the transmission harness stay and move to the engine side. (CVT model)



28) Remove the bolt which holds the transmission harness to the control valve body, and turn the transmission harness clockwise till the bolt hole can be seen as shown in the figure, and tighten the bolt to temporary lock the harness. (CVT model)

**NOTE:**

This procedure is required to prevent the transmission harness from touching the vehicle body during engine removal/installation.





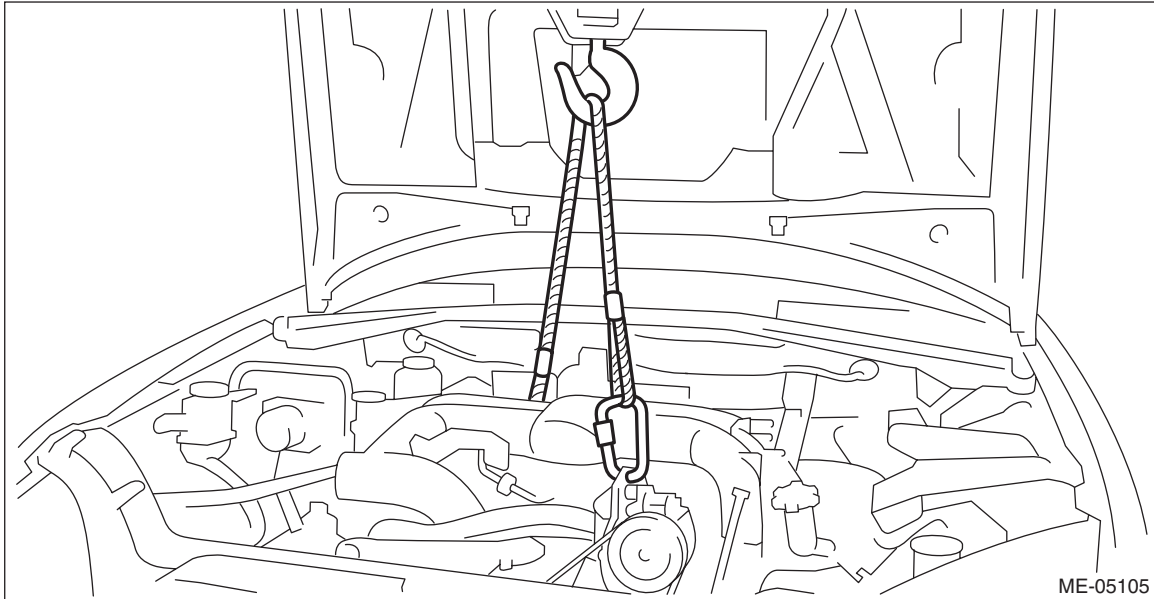
# Oil Level Switch

## LUBRICATION

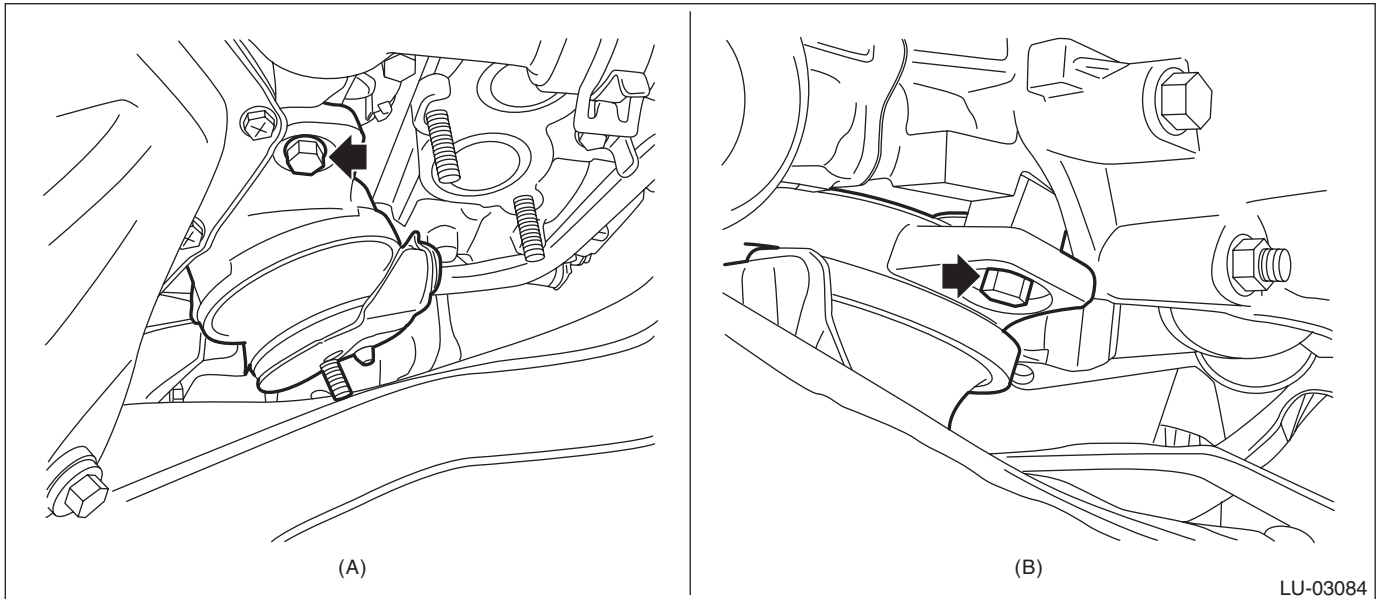
29) Lift up the engine with a lifting device and wire ropes.

### CAUTION:

When lifting up the engine, pay attention to the clearance of each part and be careful not to lift the engine too much, in order to prevent damaging the vehicle.



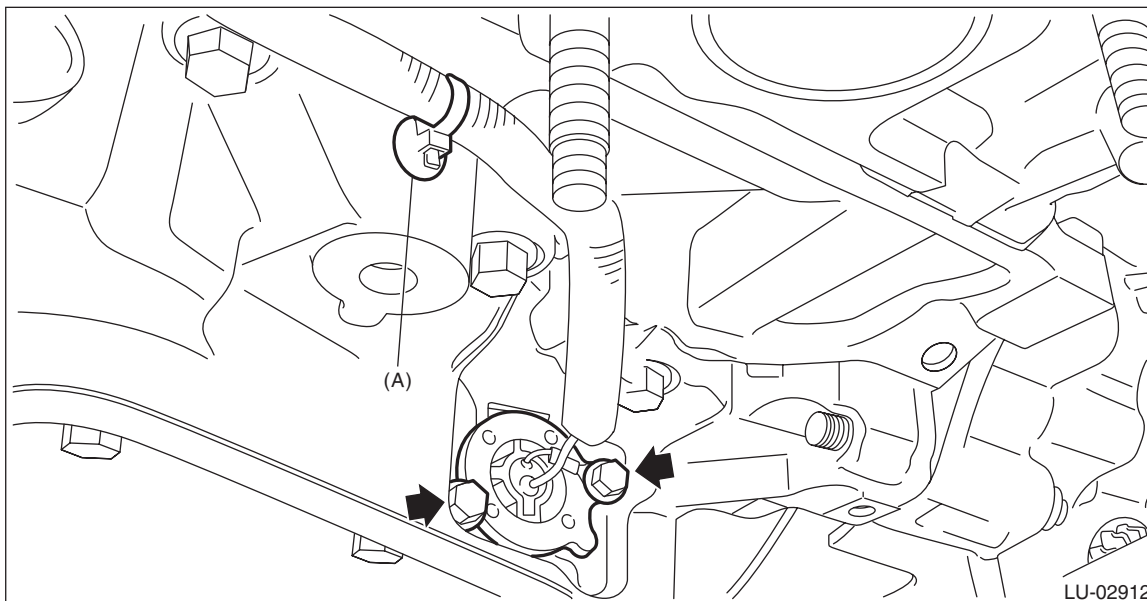
30) Remove the engine mounting LH from the engine.



(A) Front side

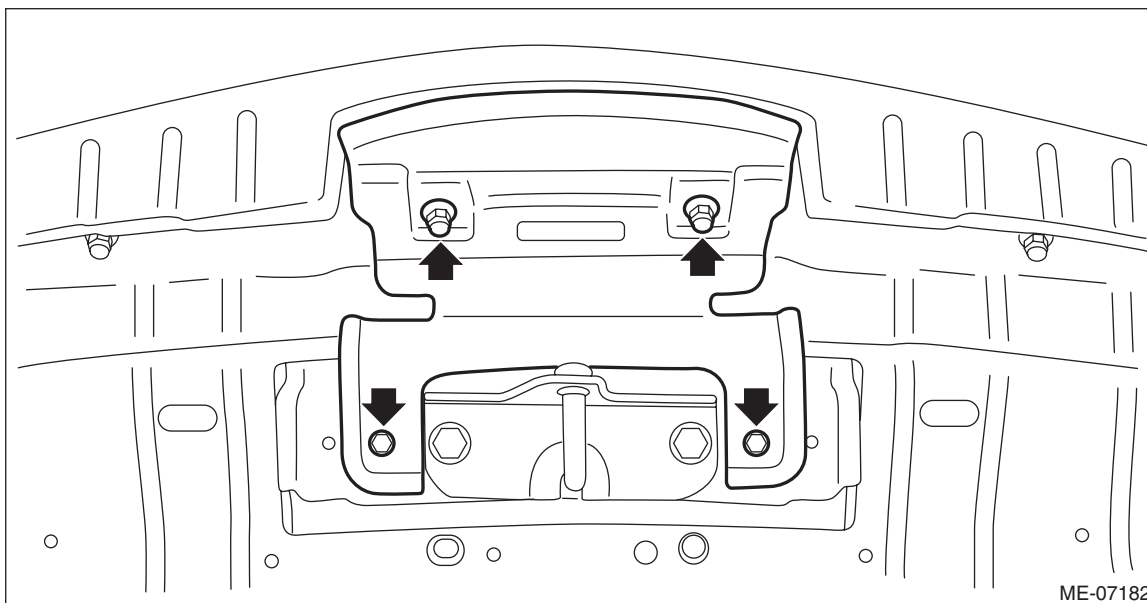
(B) Rear side

31) Remove clip (A) from the oil pan upper, and remove the oil level switch.



## 2. TURBO MODEL

1) Open the front hood, and remove the upper grille bracket from the front hood.

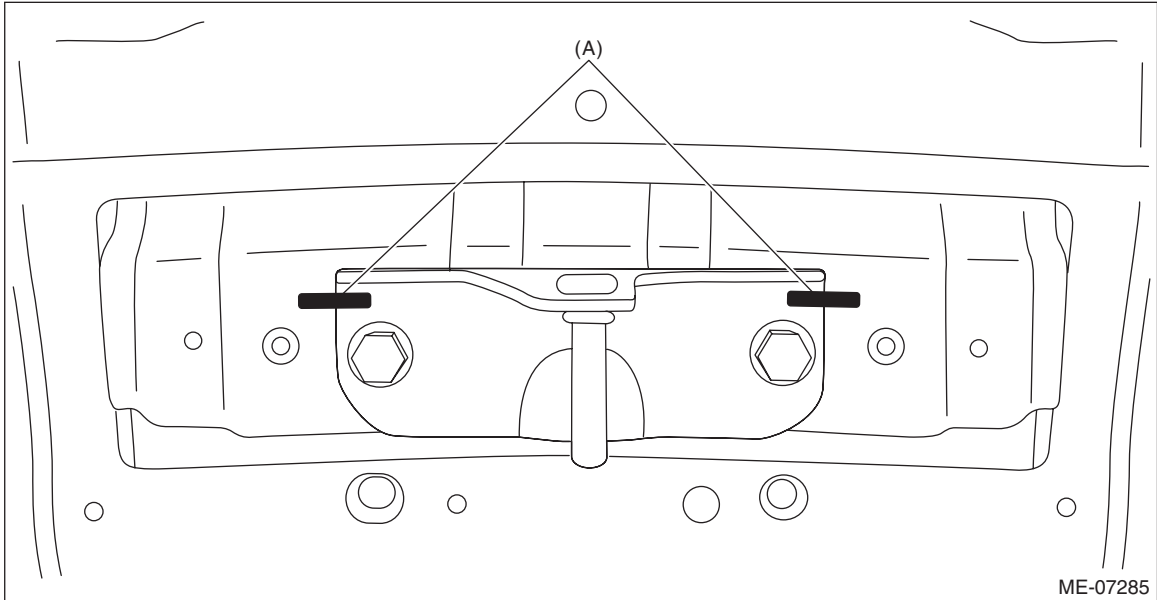


## Oil Level Switch

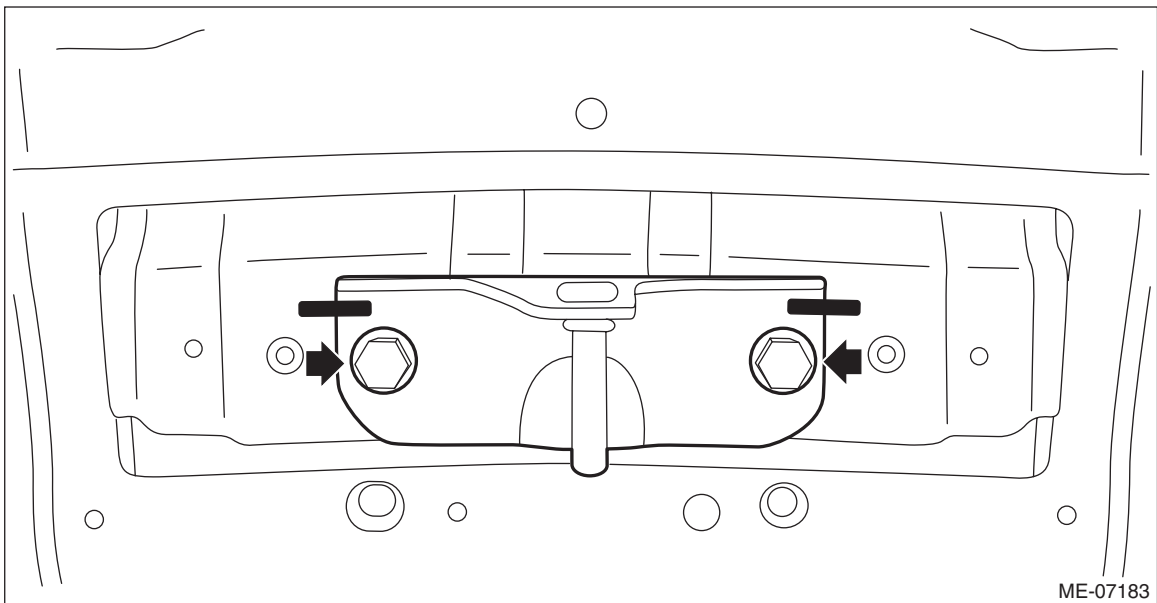
### LUBRICATION

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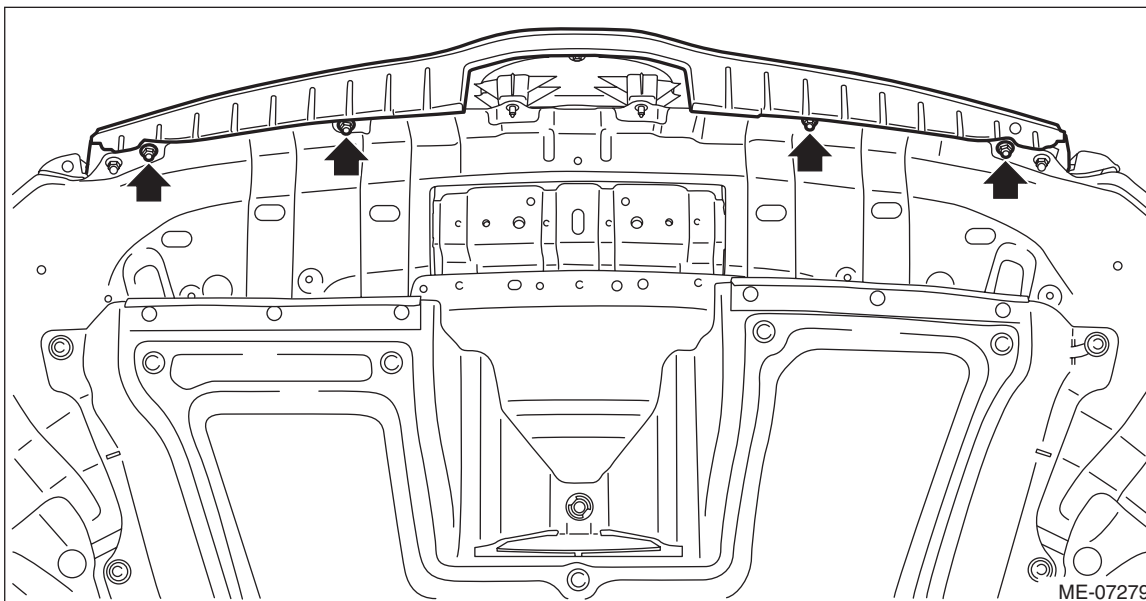
- 2) Using a marker pen, make alignment marks (A) on both the front hood and the front hood striker.



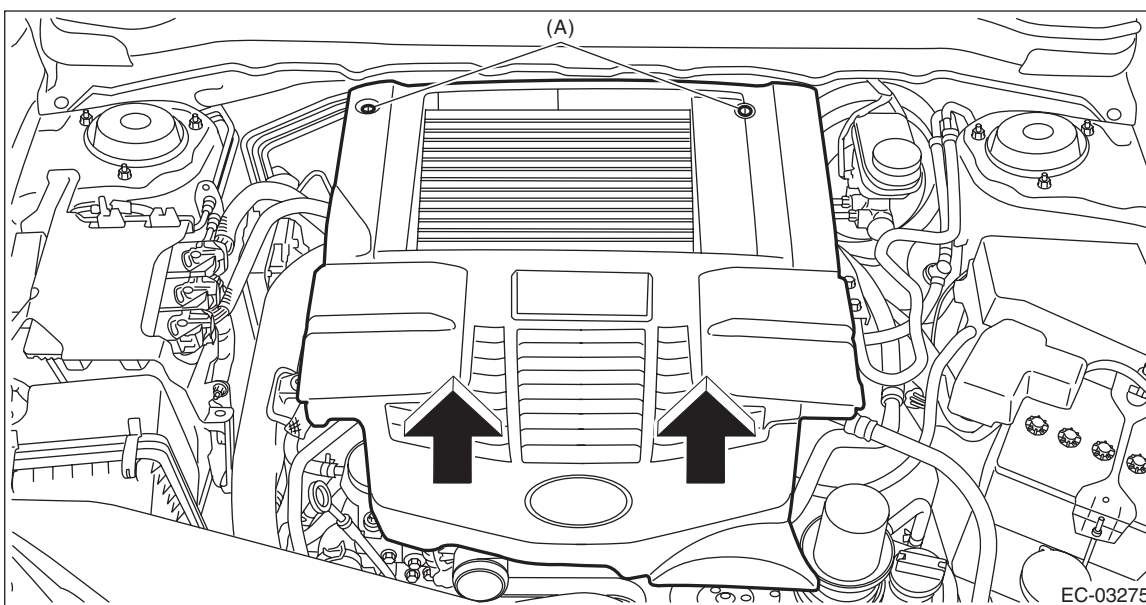
- 3) Remove the front hood striker from the front hood.



4) Remove the front center grille assembly from the front hood.



5) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



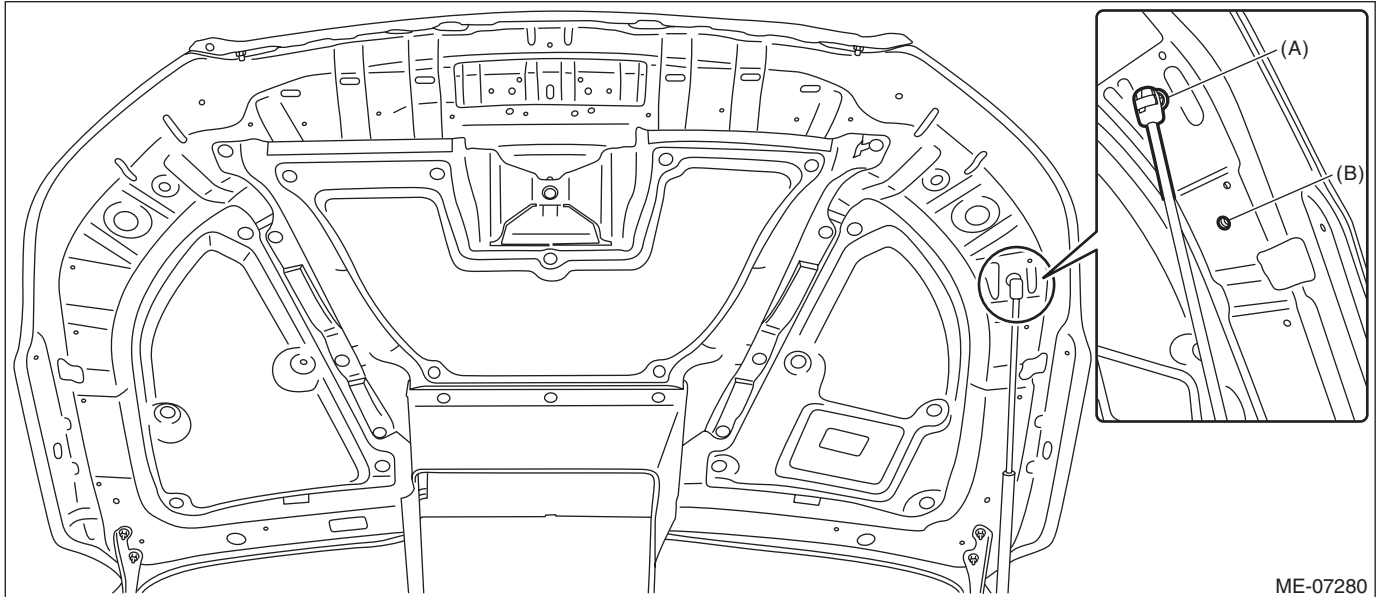
## Oil Level Switch

### LUBRICATION

6) Change the front hood damper mounting position from (A) to (B), and completely open the front hood.

**Tightening torque:**

**20 N·m (2.0 kgf-m, 14.8 ft-lb)**



7) Disconnect the ground cable from battery.

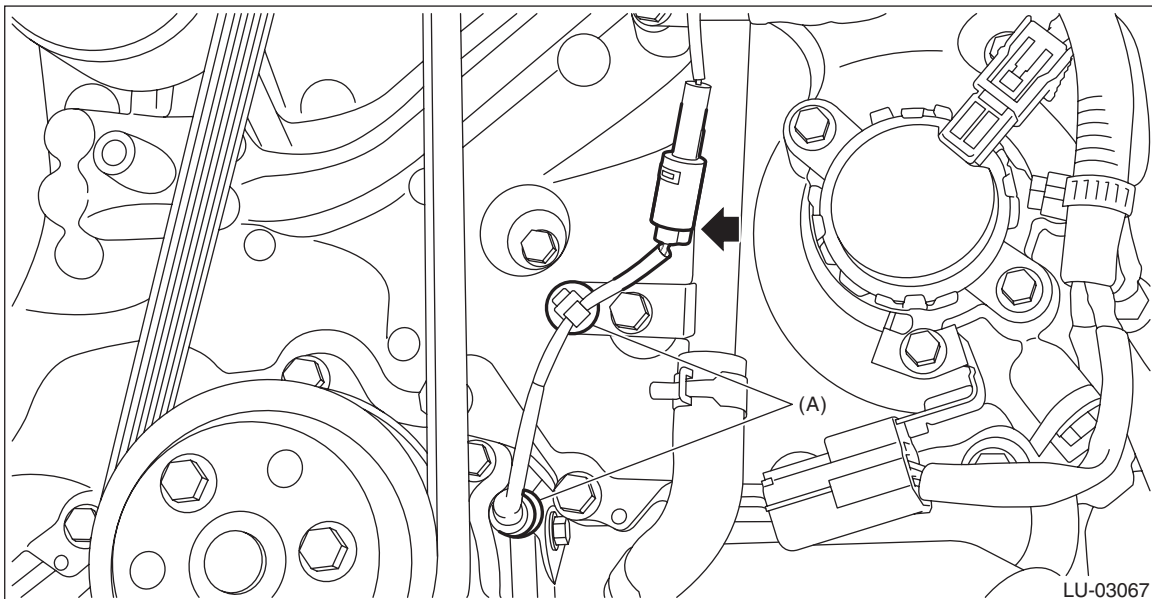
8) Remove the air intake duct (rear). <Ref. to IN(H4DOTC)-19, REMOVAL, Air Intake Duct.>

9) Remove the under cover. <Ref. to EI-22, REMOVAL, Front Under Cover.>

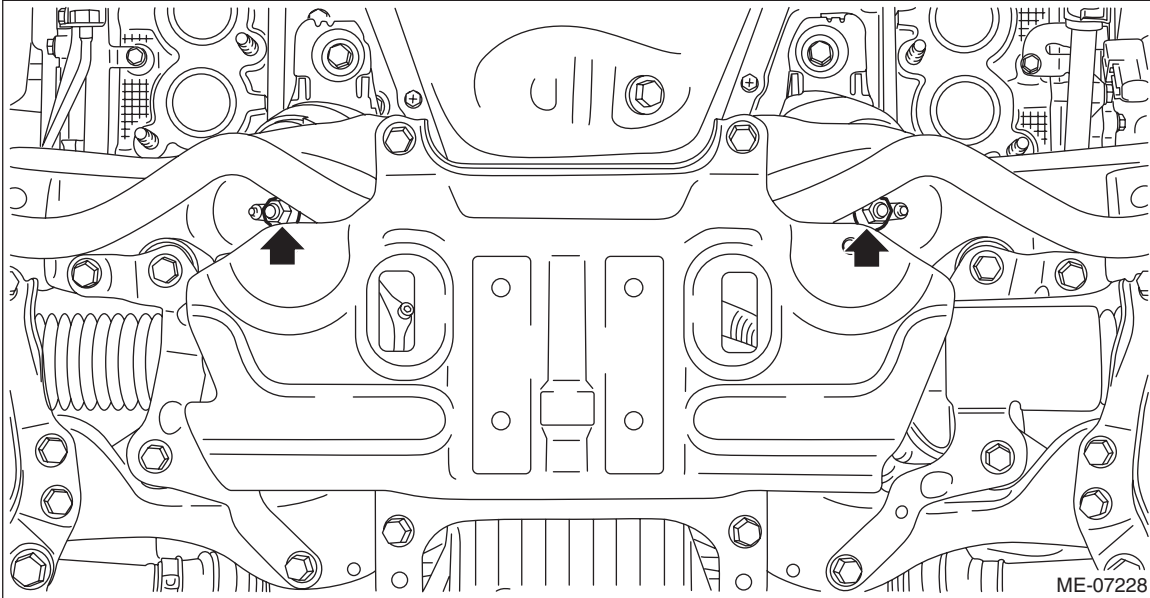
10) Drain the engine oil. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.>

11) Remove the front exhaust pipe. <Ref. to EX(H4DOTC)-7, REMOVAL, Front Exhaust Pipe.>

12) Disconnect the oil level switch connector from the engine harness, and remove the clip (A) securing the harness.



13) Remove the nuts which secure the engine mounting to the front crossmember.



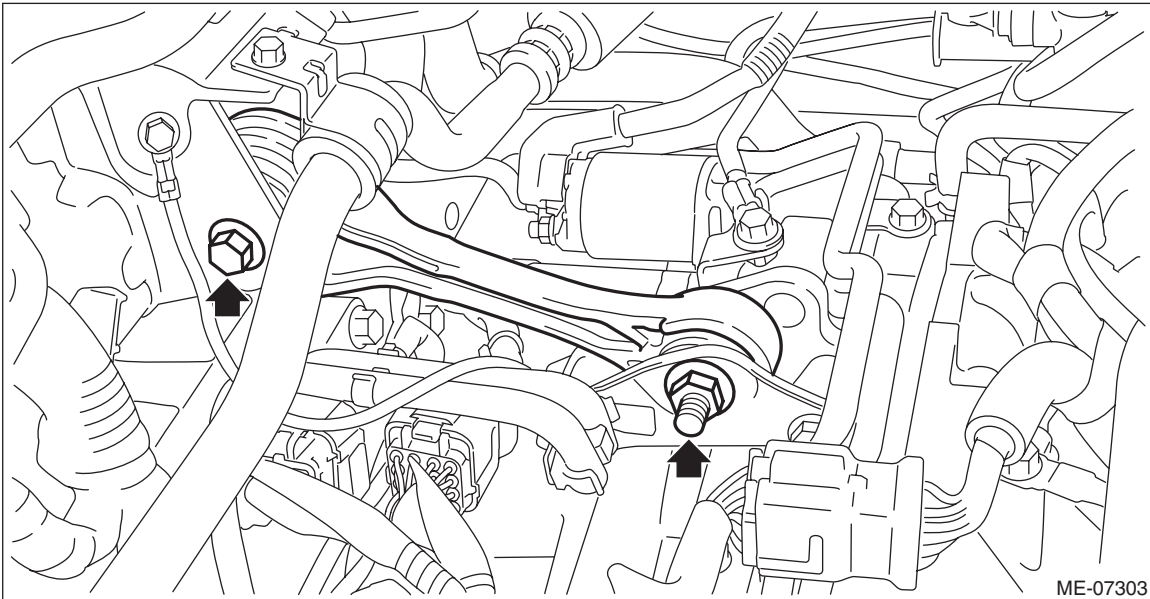
14) Remove the electric power steering gearbox. <Ref. to PS-25, REMOVAL, Electric Power Steering Gearbox.>

15) Remove the front drive shaft LH. <Ref. to DS-55, REMOVAL, Front Drive Shaft.>

16) Lower the vehicle.

17) Remove the intercooler. <Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>

18) Remove the pitching stopper.





## Oil Level Switch

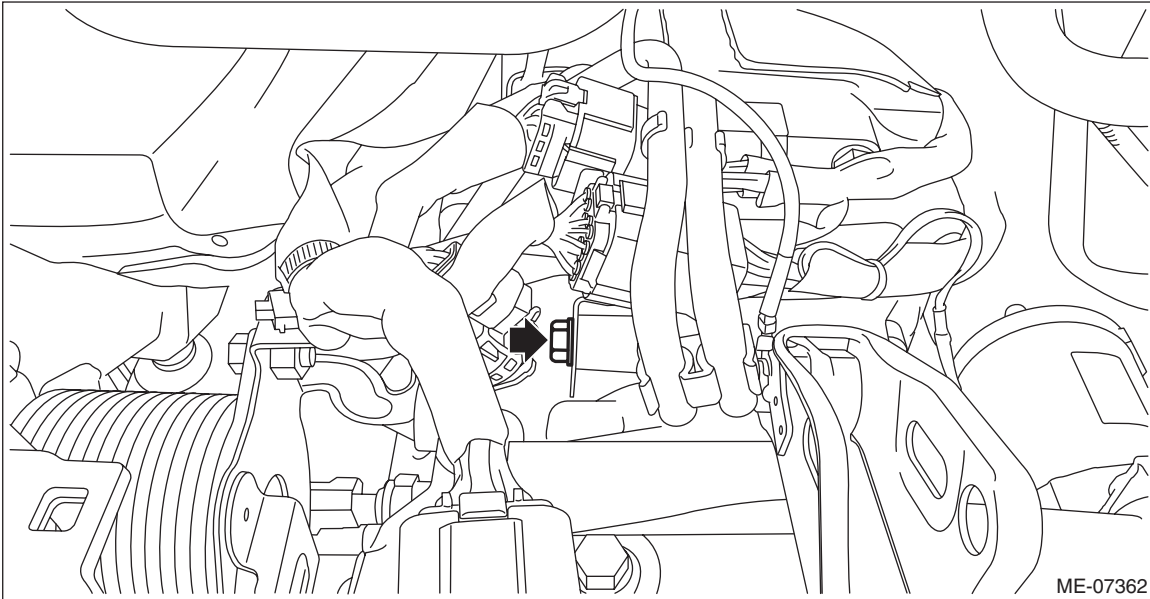
### LUBRICATION

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19) Remove the bolt securing the transmission harness stay to the CVT.

**NOTE:**

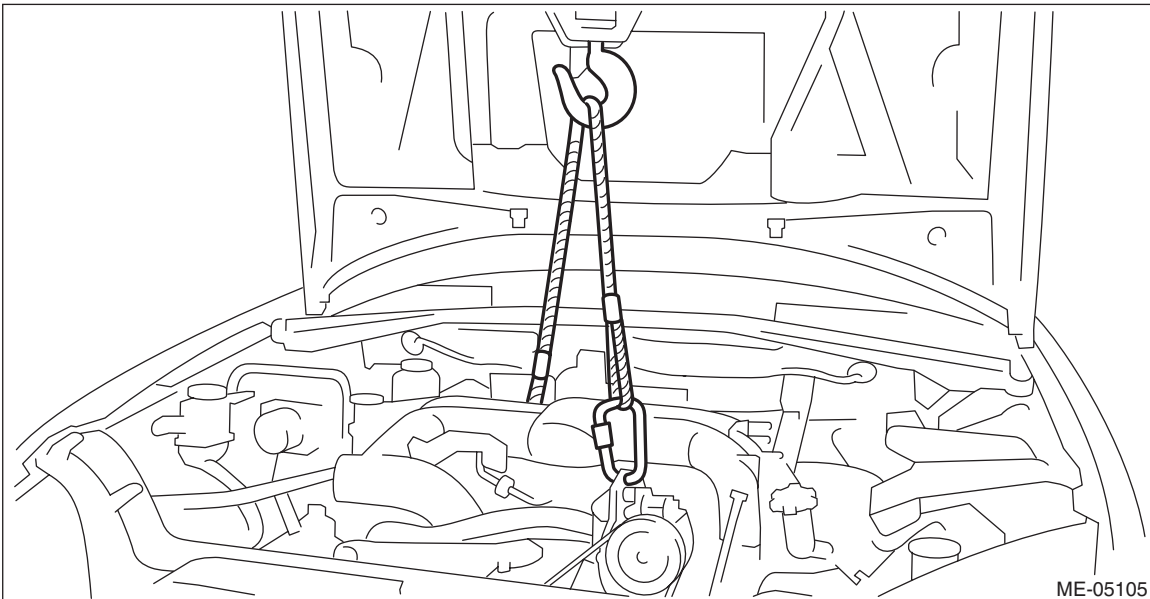
This procedure is required to prevent the transmission connector from touching the A/C pressure hose during engine removal/installation.



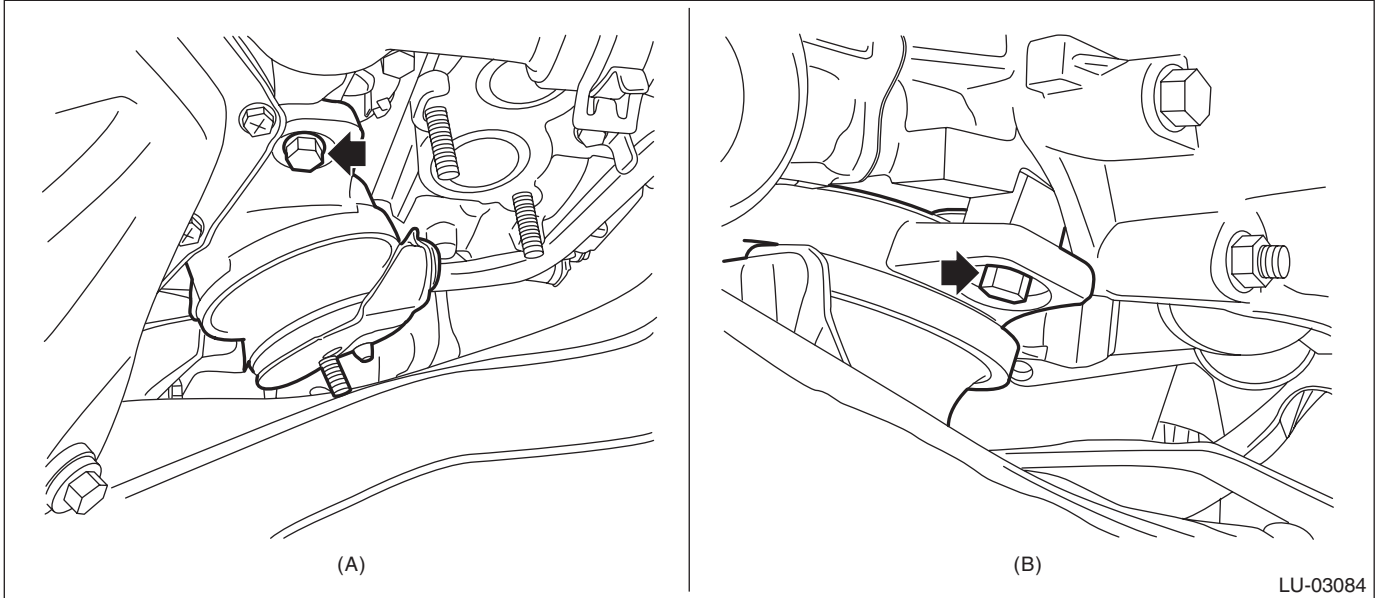
20) Lift up the engine with a lifting device and wire ropes.

**CAUTION:**

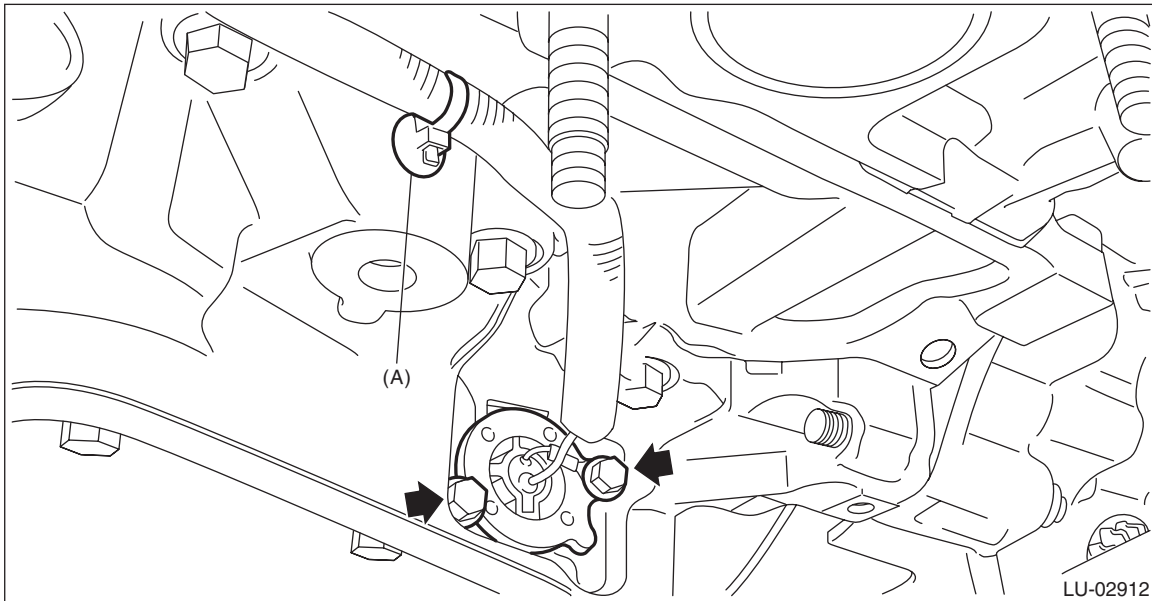
**When lifting up the engine, pay attention to the clearance of each part and be careful not to lift the engine too much, in order to prevent damaging the vehicle.**



21) Remove the engine mounting LH from the engine.



22) Remove clip (A) from the oil pan upper, and remove the oil level switch.



### B: INSTALLATION

#### 1. NON-TURBO MODEL

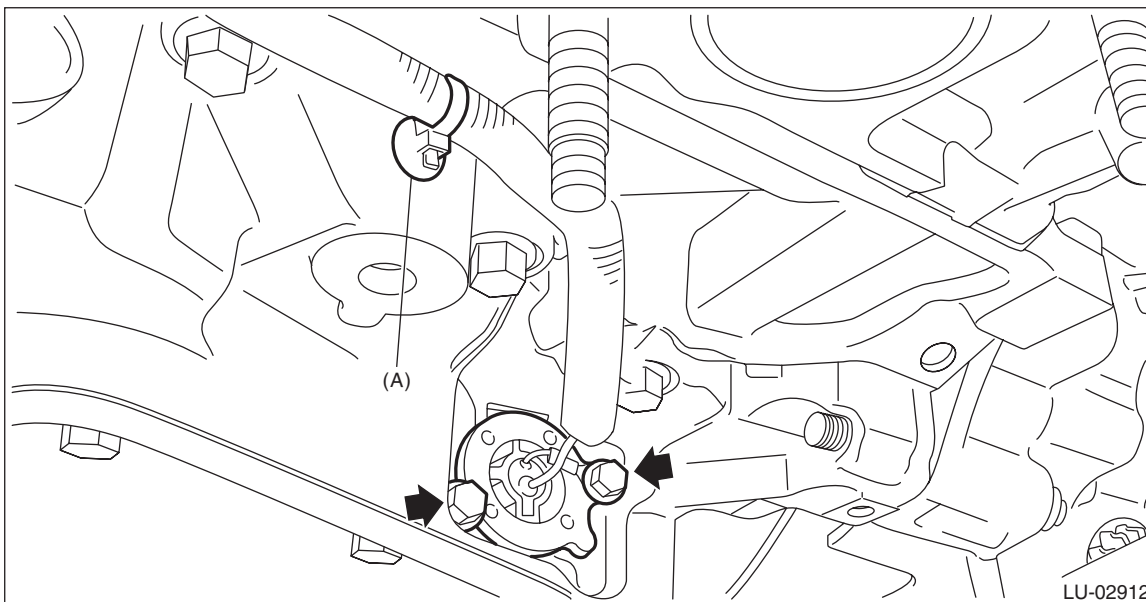
1) Install the oil level switch and the clip (A) to the oil pan upper.

NOTE:

- Use new O-rings.
- Apply a coat of engine oil to the O-rings.

**Tightening torque:**

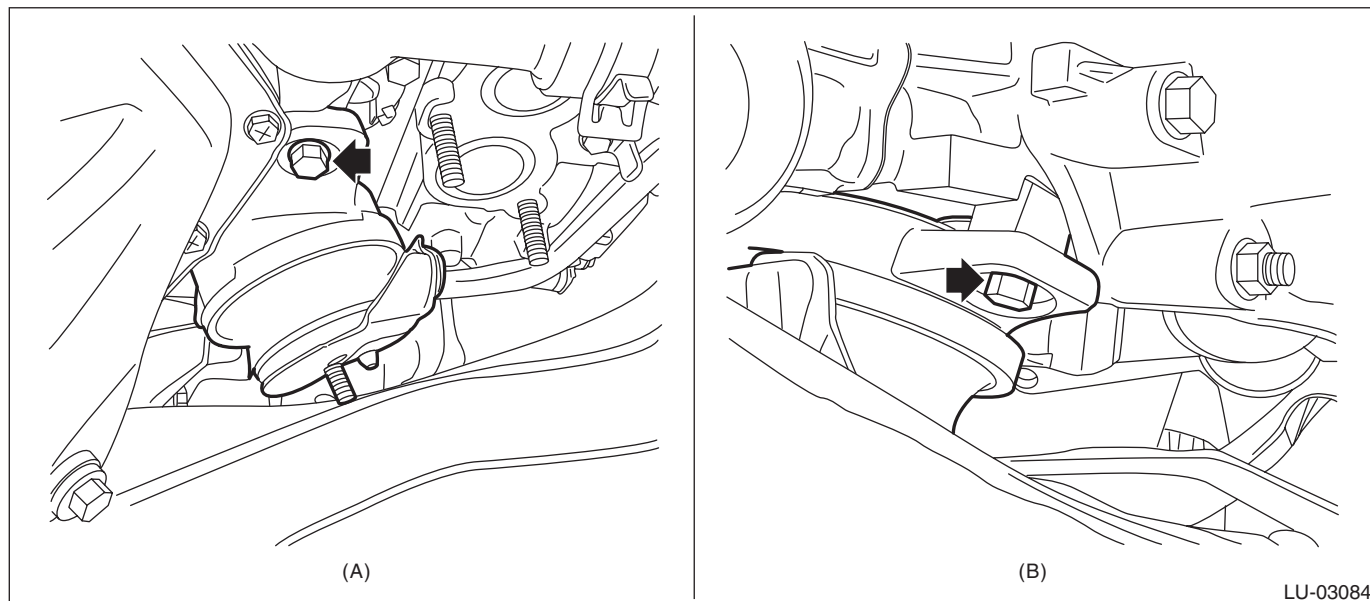
**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



2) Install the engine mounting LH onto the engine.

**Tightening torque:**

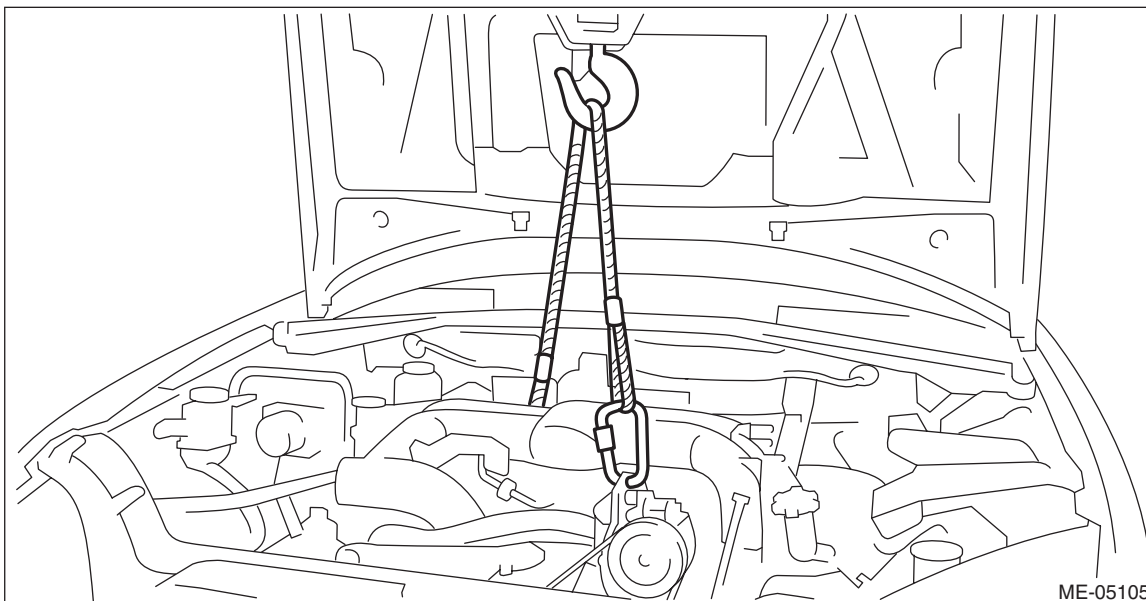
**35 N·m (3.6 kgf-m, 25.8 ft-lb)**



(A) Front side

(B) Rear side

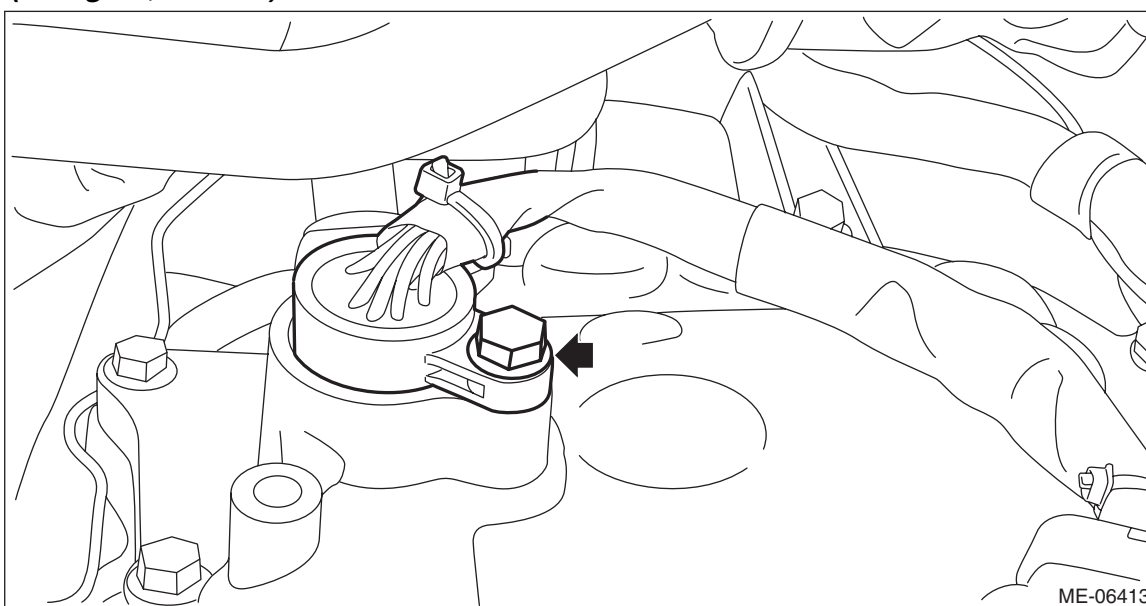
3) Lower the engine and remove the lifting device and wire ropes.



4) Remove the bolt and turn the transmission harness counterclockwise to install the transmission harness to the control valve body. (CVT model)

**Tightening torque:**

**7 N·m (0.7 kgf-m, 5.2 ft-lb)**



## Oil Level Switch

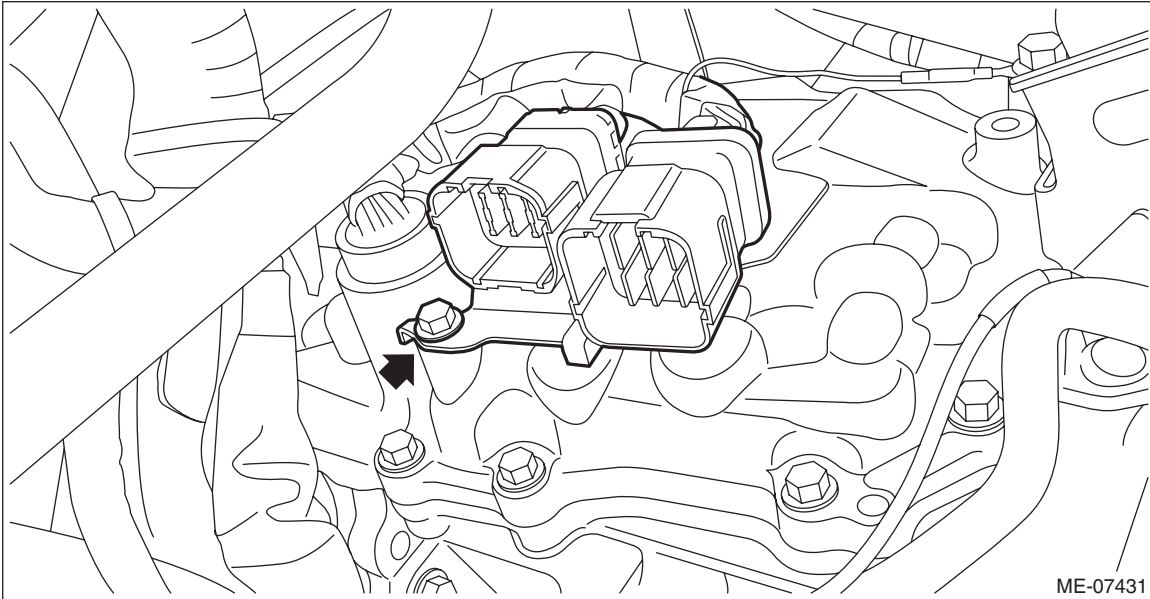
### LUBRICATION

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5) Install the transmission harness stay. (CVT model)

**Tightening torque:**

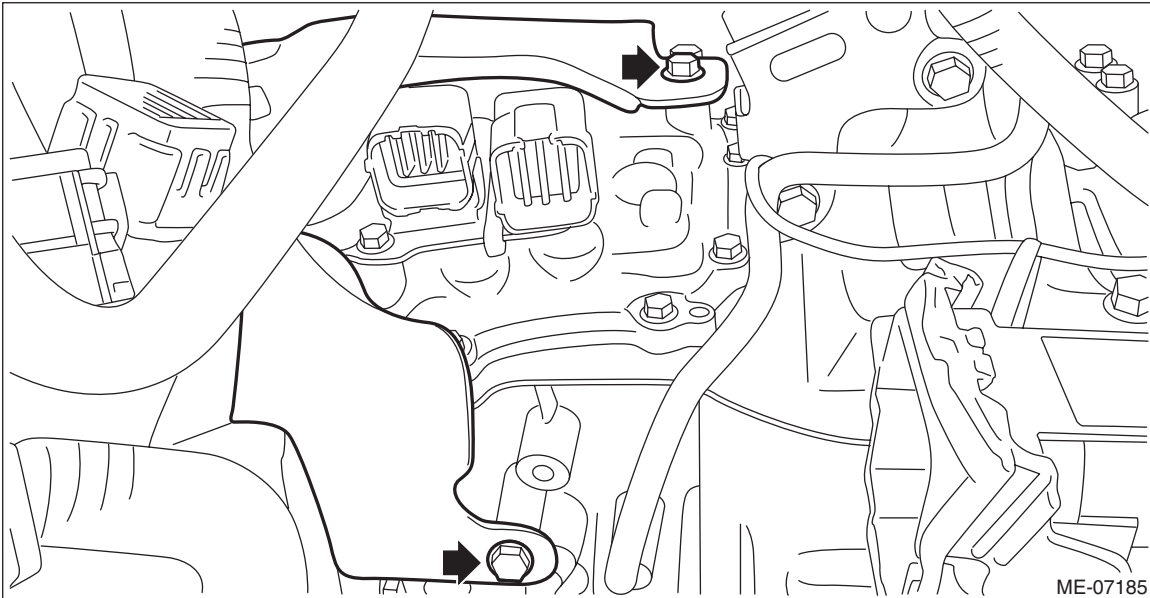
**7 N·m (0.7 kgf-m, 5.2 ft-lb)**



6) Install the transmission case cover. (CVT model)

**Tightening torque:**

**8 N·m (0.8 kgf-m, 5.9 ft-lb)**

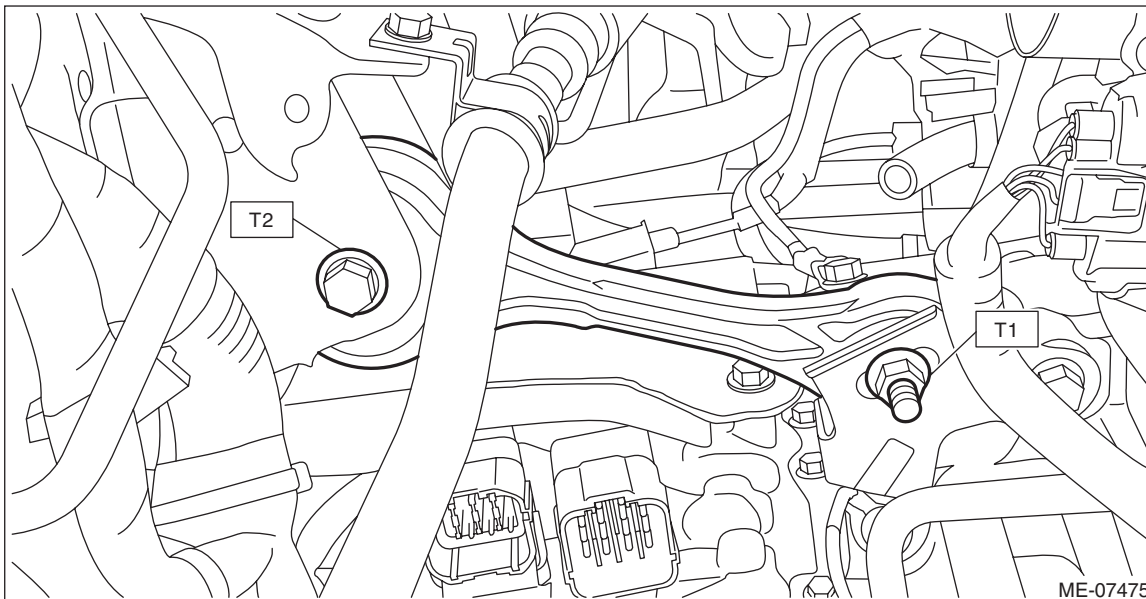


7) Install the pitching stopper.

**Tightening torque:**

**T1: 50 N·m (5.1 kgf-m, 36.9 ft-lb)**

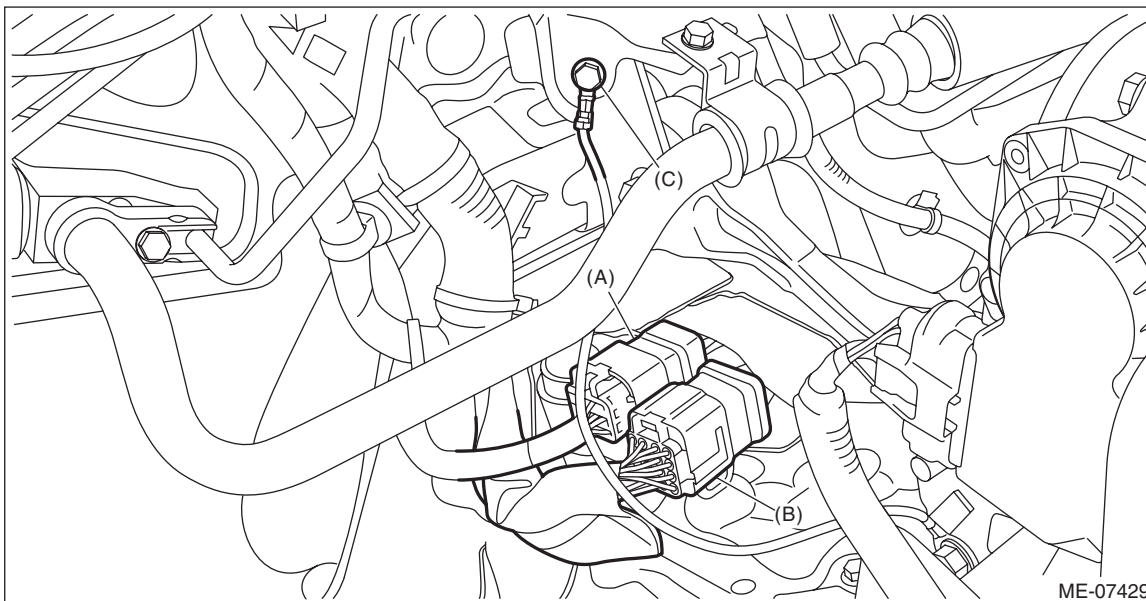
**T2: 58 N·m (5.9 kgf-m, 42.8 ft-lb)**



8) Connect the transmission radio ground terminal (C) to the vehicle body, and connect the bulkhead harness connector (A) and the inhibitor harness connector (B). (CVT model)

**Tightening torque:**

**13 N·m (1.3 kgf-m, 9.6 ft-lb)**



9) Install the electric power steering gearbox. <Ref. to PS-30, INSTALLATION, Electric Power Steering Gearbox.>

10) Install the front drive shaft LH. <Ref. to DS-56, INSTALLATION, Front Drive Shaft.>



## Oil Level Switch

### LUBRICATION

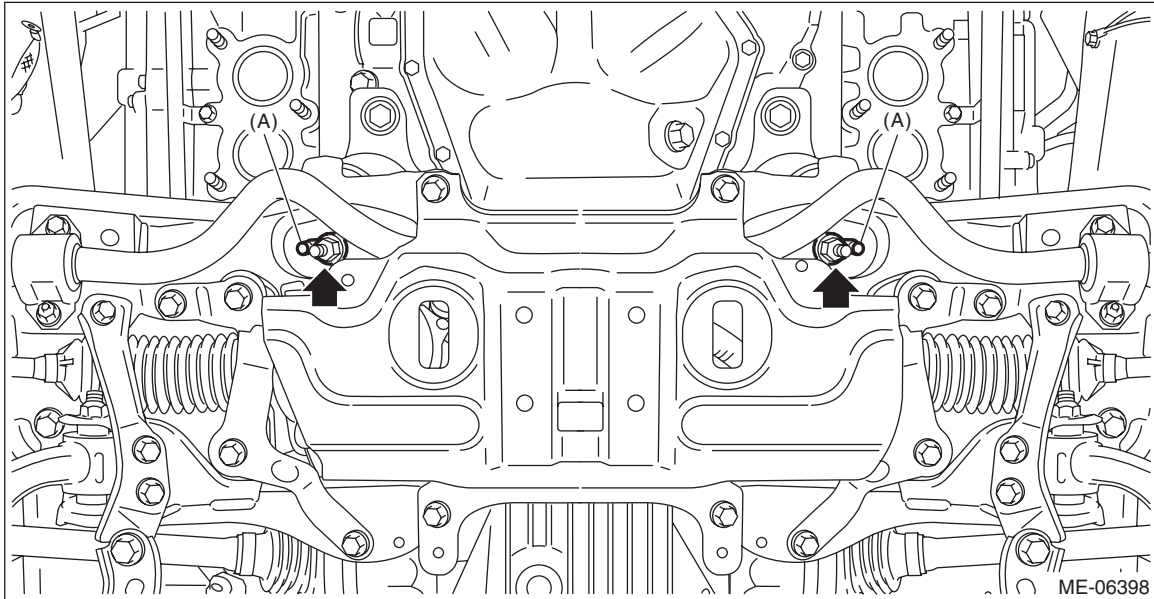
11) Install the nuts which hold the engine mounting to the crossmember. (Hydraulic engine mounting model)

**NOTE:**

Make sure that locators (A) of the engine mounting are securely inserted.

**Tightening torque:**

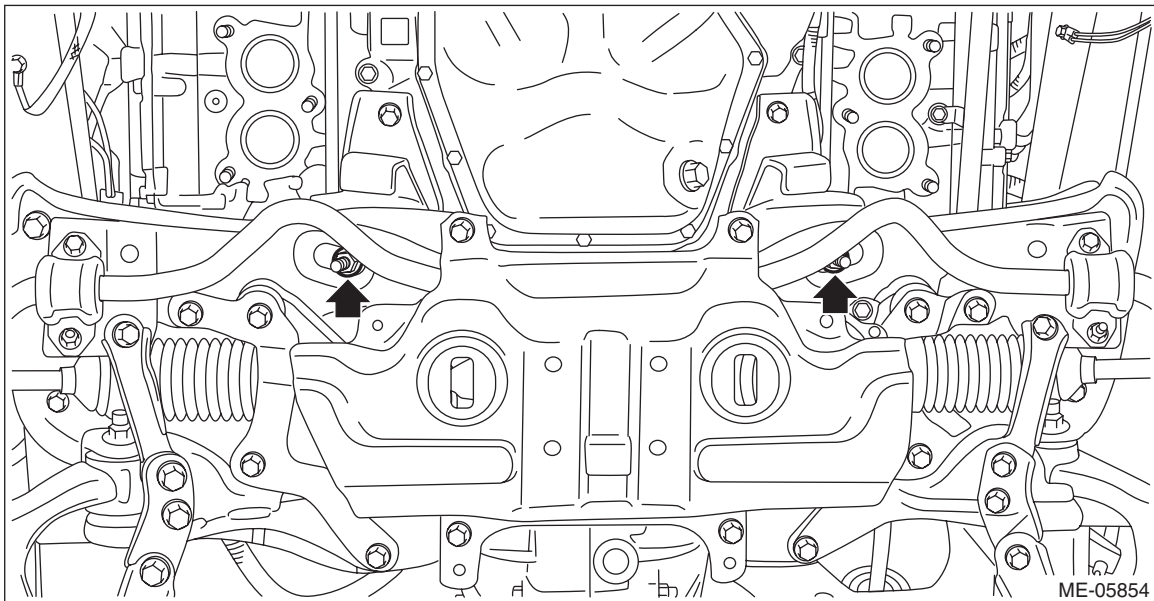
**45 N·m (4.6 kgf-m, 33.2 ft-lb)**



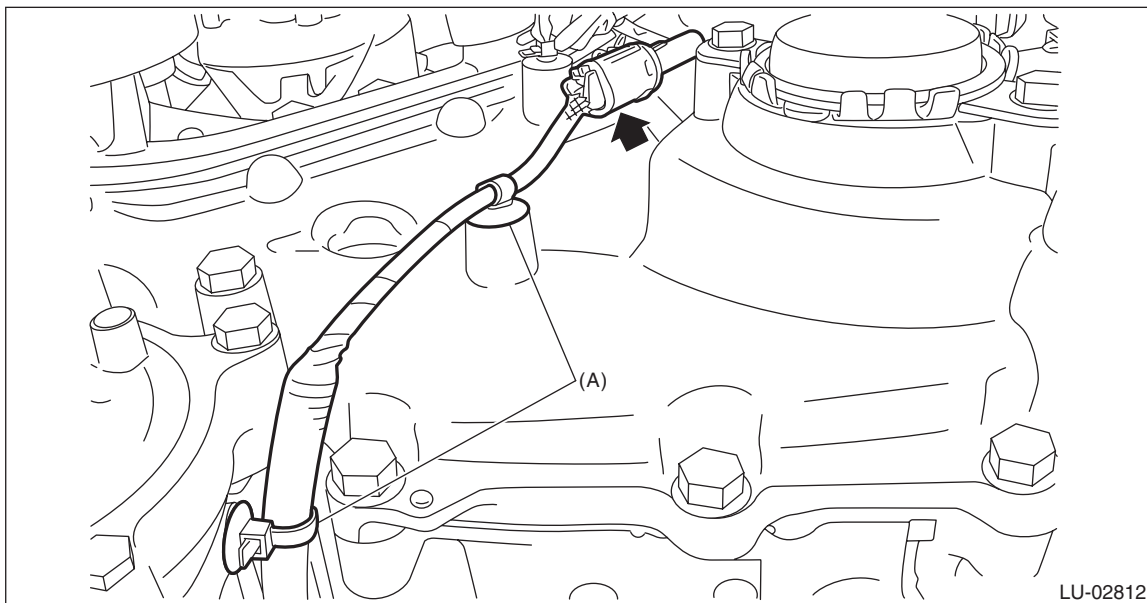
12) Install the nuts which hold the engine mounting to the crossmember. (Solid engine mounting model)

**Tightening torque:**

**45 N·m (4.6 kgf-m, 33.2 ft-lb)**



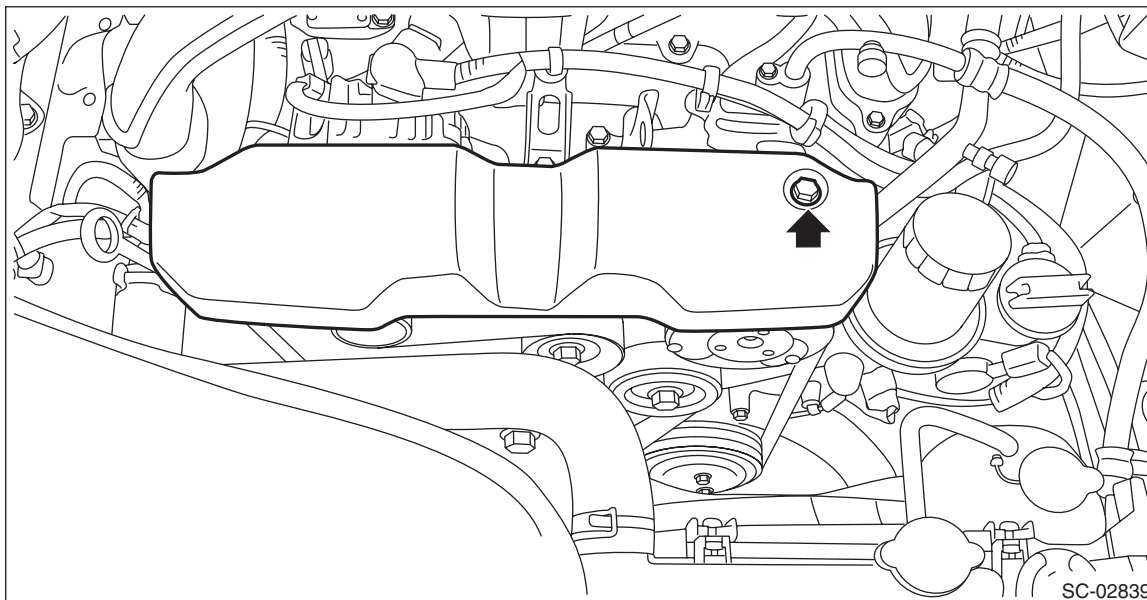
- 13) Connect the connector of oil level switch to the engine harness, and install the clip (A) securing the harness.



- 14) Install the front exhaust pipe. <Ref. to EX(H4DO)-8, INSTALLATION, Front Exhaust Pipe.>  
15) Install the under cover front - transmission.  
16) Install the under cover.  
17) Lower the vehicle.  
18) Install the air intake boot. <Ref. to IN(H4DO)-11, INSTALLATION, Air Intake Boot.>  
19) Install the air intake duct (rear). <Ref. to IN(H4DO)-12, INSTALLATION, Air Intake Duct.>  
20) Connect the battery ground terminal.  
21) Install the V-belt cover.

**Tightening torque:**

**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



- 22) Refill the engine oil. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.>

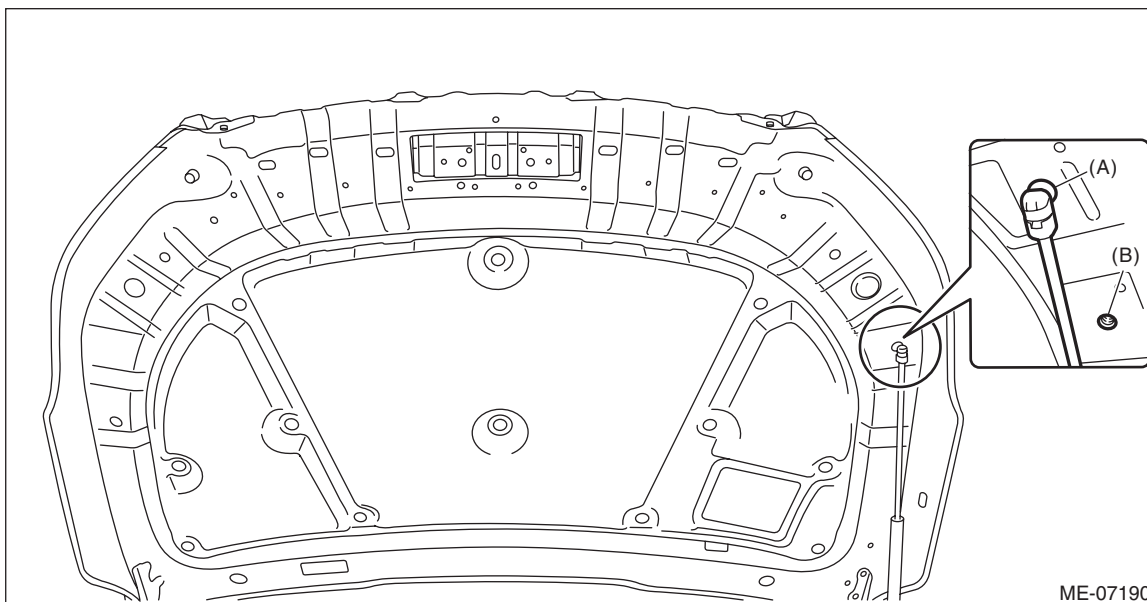
## Oil Level Switch

### LUBRICATION

23) Change the installation position of the front hood damper from (B) to (A).

**Tightening torque:**

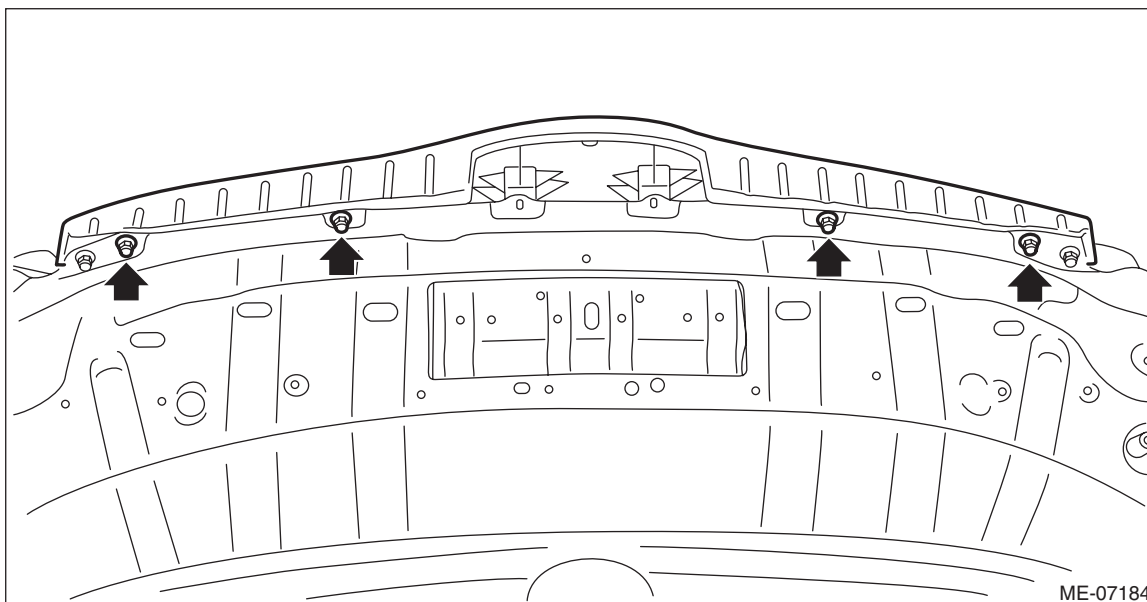
**20 N·m (2.0 kgf-m, 14.8 ft-lb)**



24) Install the front center grille assembly to the front hood.

**Tightening torque:**

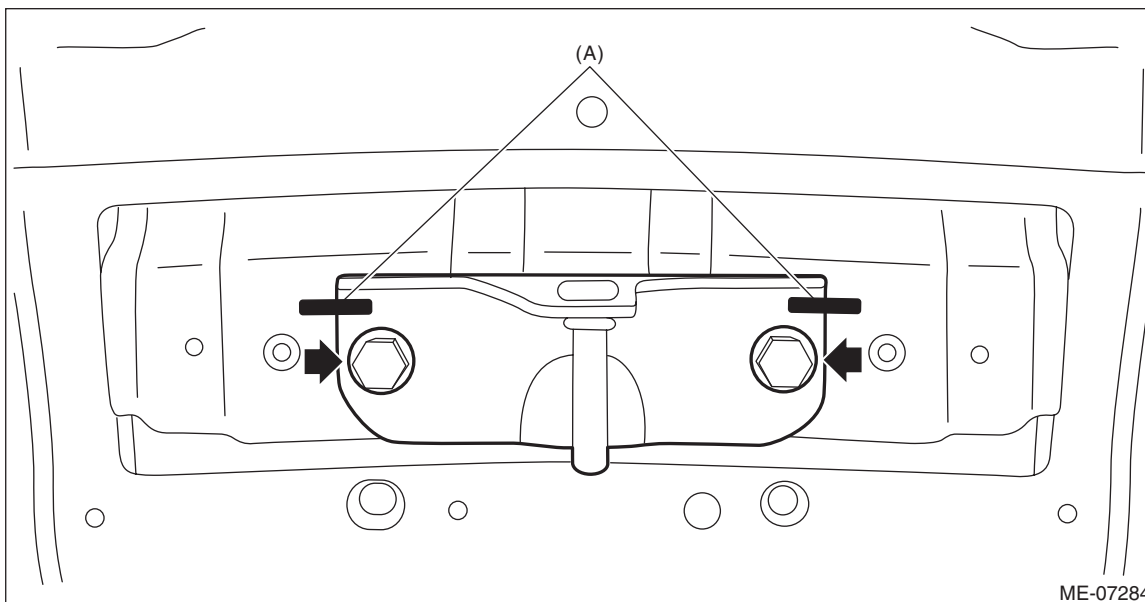
**4.5 N·m (0.5 kgf-m, 3.3 ft-lb)**



25) Align the alignment marks (A), and install the front hood striker to the front hood.

**Tightening torque:**

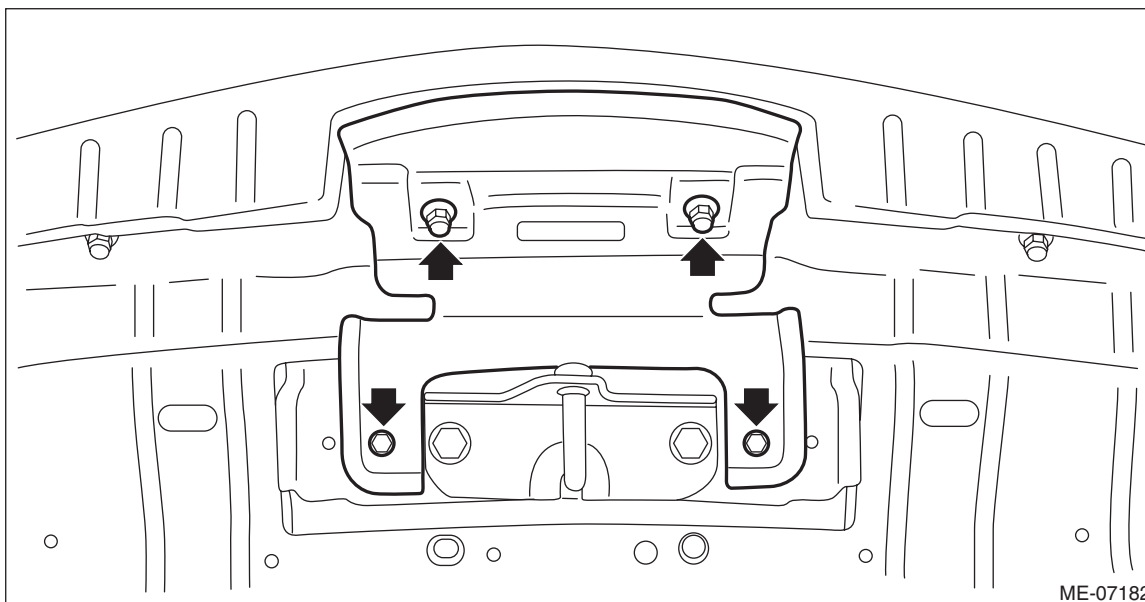
**33 N·m (3.4 kgf-m, 24.3 ft-lb)**



26) Install the upper grille bracket to the front hood.

**Tightening torque:**

**4.5 N·m (0.5 kgf-m, 3.3 ft-lb)**



# Oil Level Switch

## LUBRICATION

### 2. TURBO MODEL

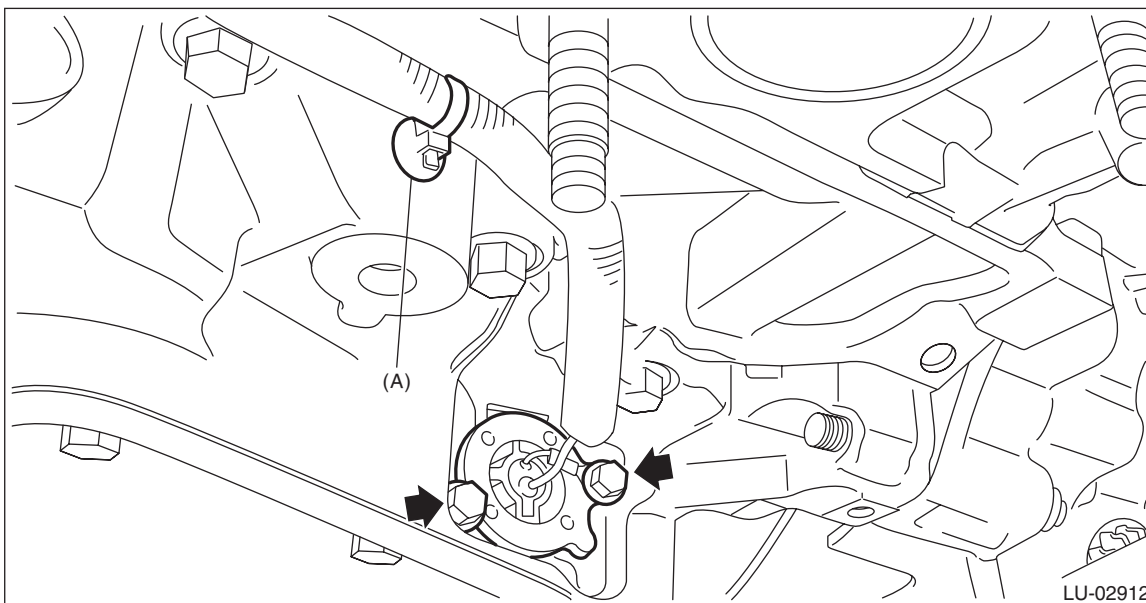
1) Install the oil level switch and the clip (A) to the oil pan upper.

#### NOTE:

- Use new O-rings.
- Apply a coat of engine oil to the O-rings.

#### **Tightening torque:**

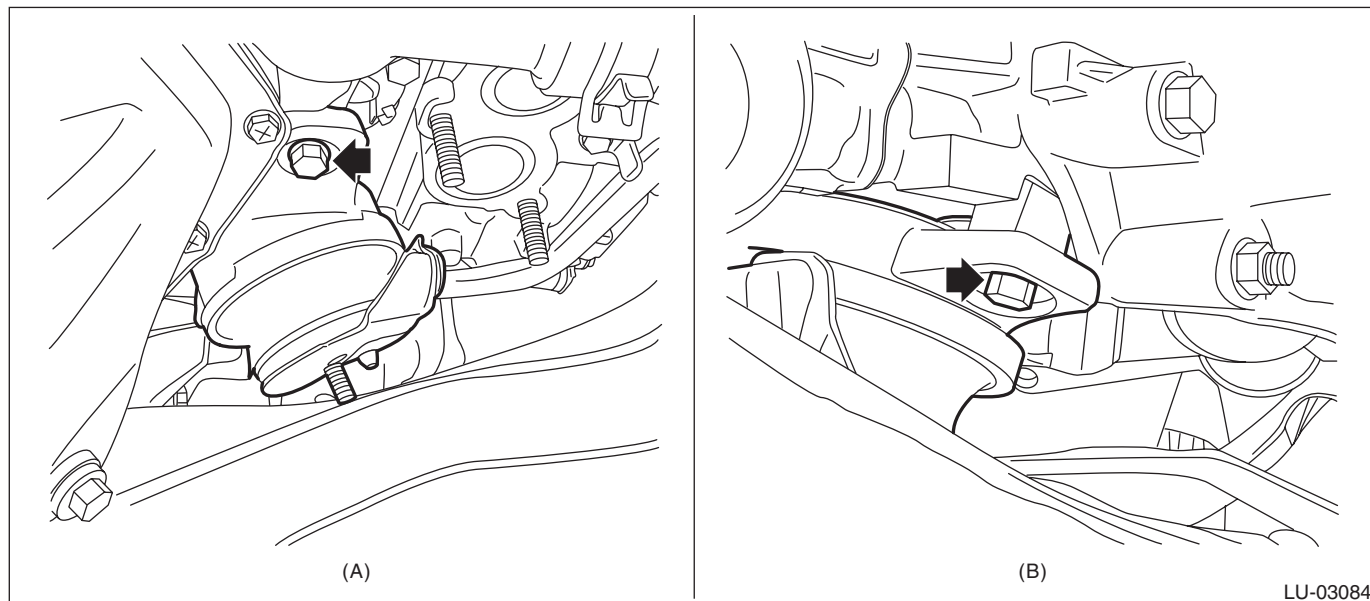
**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



2) Install the engine mounting LH onto the engine.

#### **Tightening torque:**

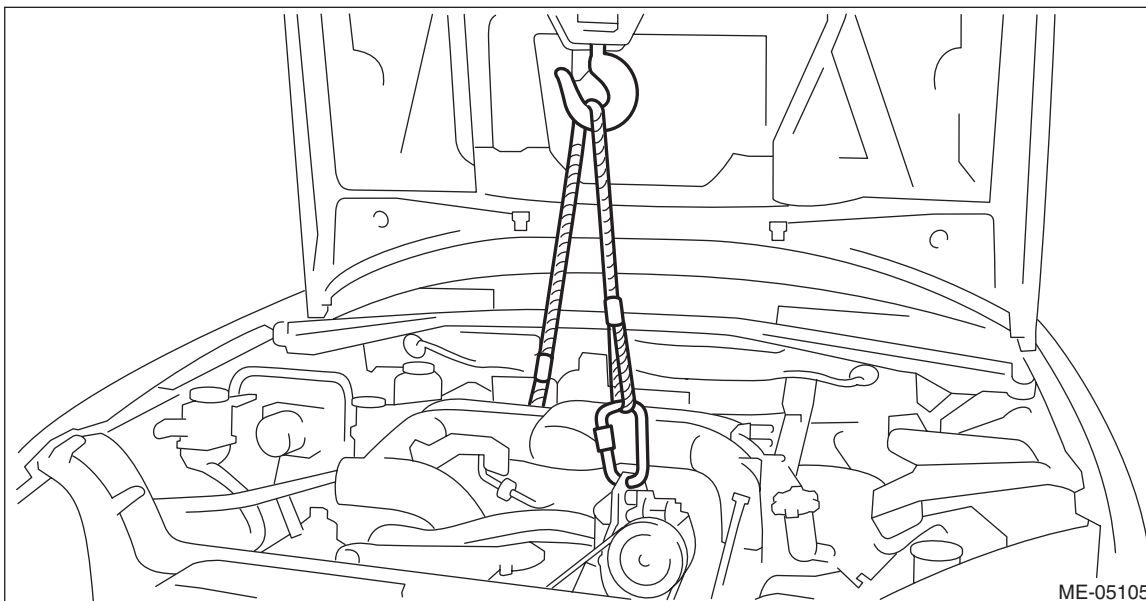
**35 N·m (3.6 kgf-m, 25.8 ft-lb)**



(A) Front side

(B) Rear side

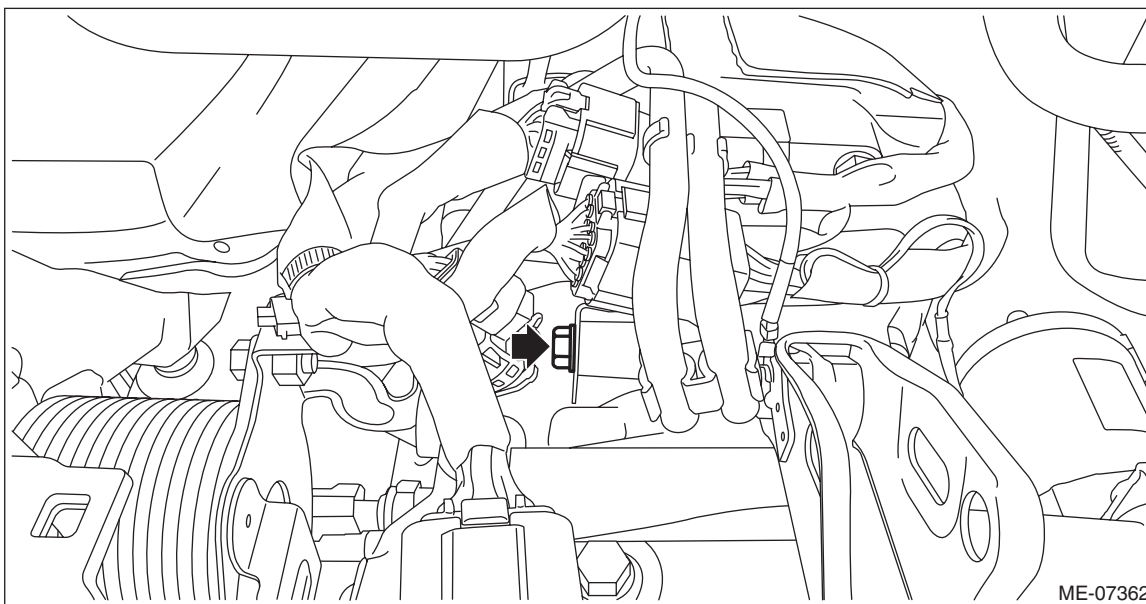
- 3) Lower the engine and remove the lifting device and wire ropes.



- 4) Install the bolt which secures the transmission harness stay to the CVT.

**Tightening torque:**

**15 N·m (1.6 kgf-m, 11.8 ft-lb)**





## Oil Level Switch

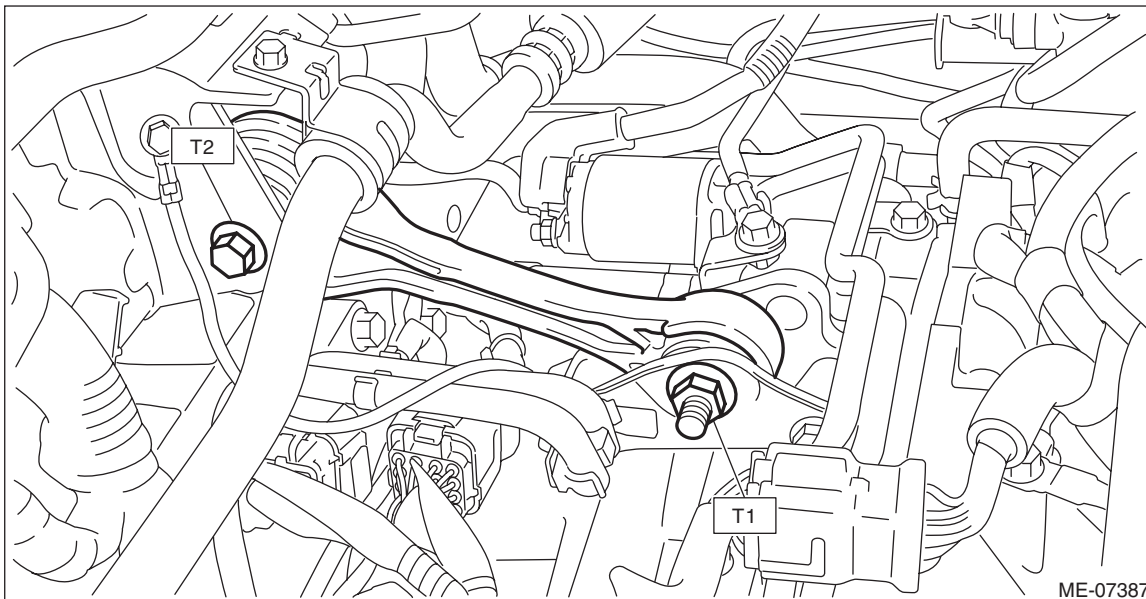
### LUBRICATION

5) Install the pitching stopper.

**Tightening torque:**

**T1: 50 N·m (5.1 kgf-m, 36.9 ft-lb)**

**T2: 58 N·m (5.9 kgf-m, 42.8 ft-lb)**



6) Install the intercooler. <Ref. to IN(H4DOTC)-37, INSTALLATION, Intercooler.>

7) Lift up the vehicle.

8) Install the electric power steering gearbox. <Ref. to PS-30, INSTALLATION, Electric Power Steering Gearbox.>

9) Install the front drive shaft LH. <Ref. to DS-56, INSTALLATION, Front Drive Shaft.>

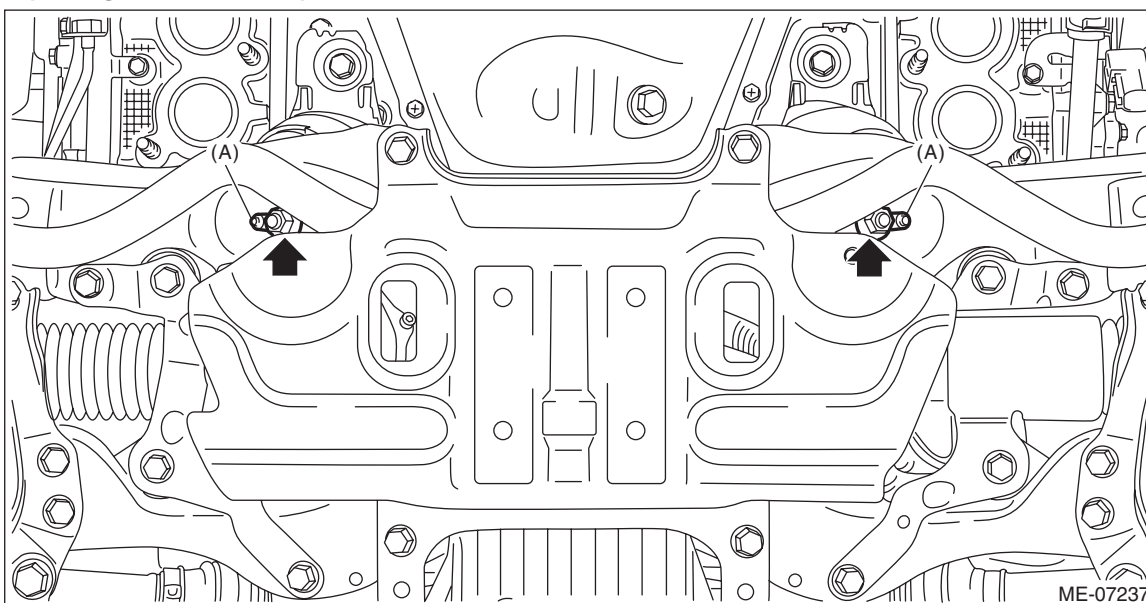
10) Install the nuts which hold the engine mounting to the crossmember.

**NOTE:**

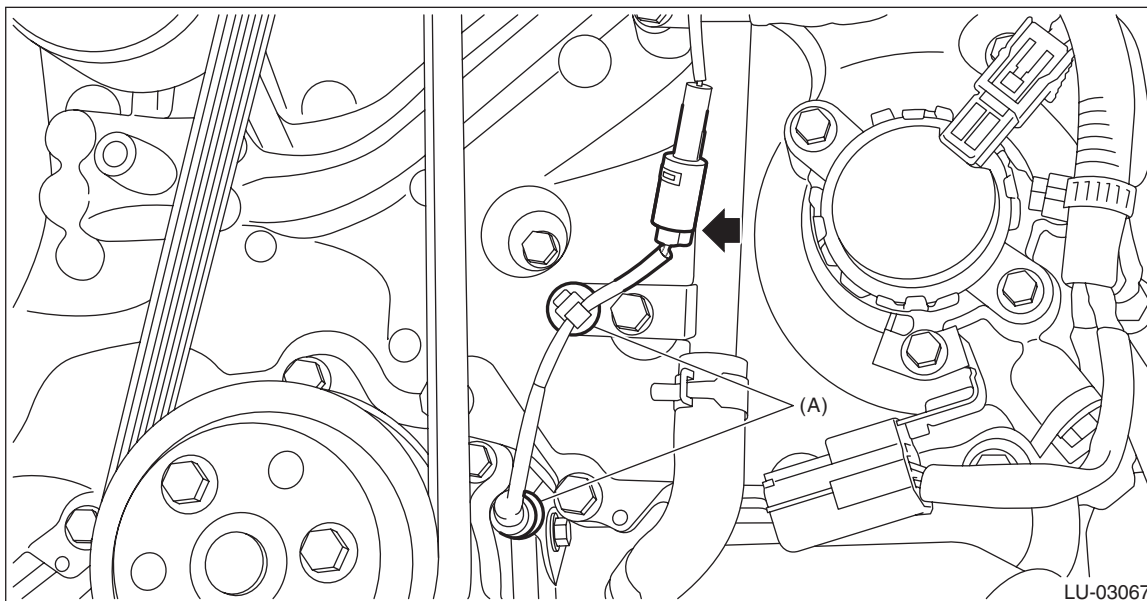
Make sure that locators (A) of the engine mounting are securely inserted.

**Tightening torque:**

**45 N·m (4.6 kgf-m, 33.2 ft-lb)**



11) Connect the connector of oil level switch to the engine harness, and install the clip (A) securing the harness.



12) Install the front exhaust pipe. <Ref. to EX(H4DOTC)-15, INSTALLATION, Front Exhaust Pipe.>

13) Install the under cover. <Ref. to EI-22, INSTALLATION, Front Under Cover.>

14) Install the air intake duct (rear). <Ref. to IN(H4DOTC)-19, INSTALLATION, Air Intake Duct.>

15) Connect the battery ground terminal.

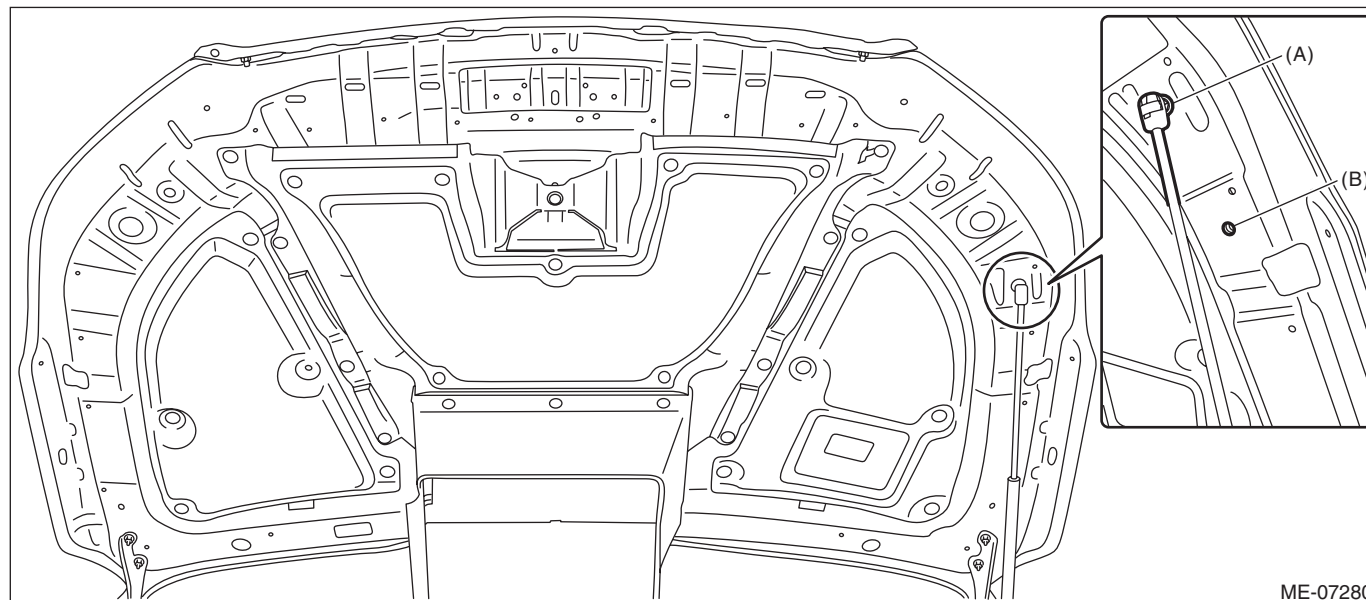
16) Install the collector cover.

17) Refill the engine oil. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.>

18) Change the installation position of the front hood damper from (B) to (A).

## **Tightening torque:**

**20 N·m (2.0 kgf-m, 14.8 ft-lb)**



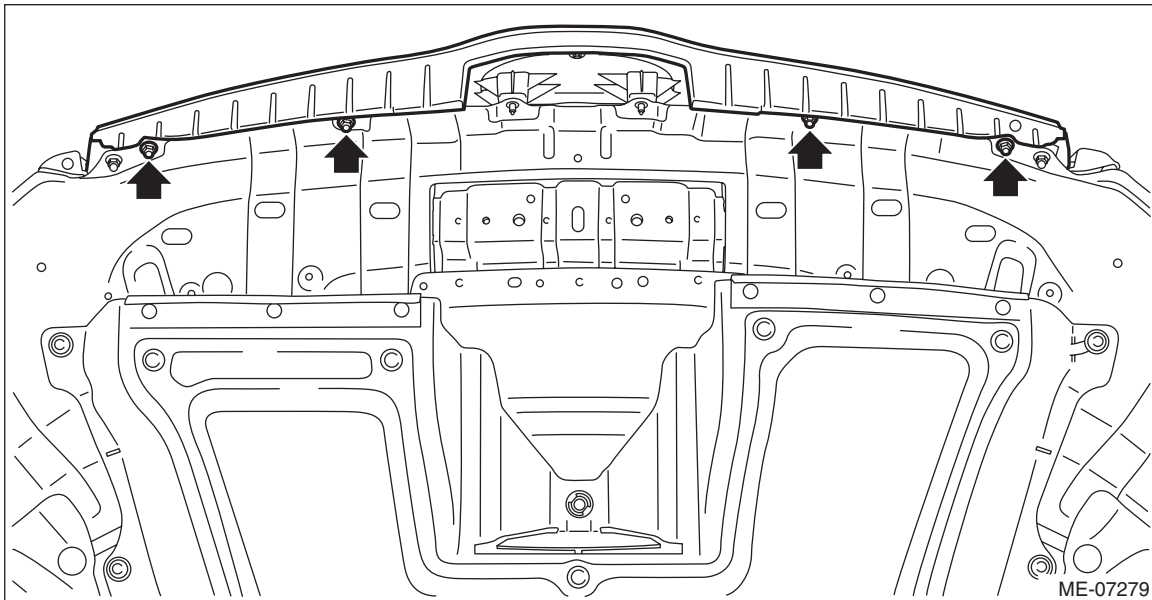
## Oil Level Switch

### LUBRICATION

19) Install the front center grille assembly to the front hood.

**Tightening torque:**

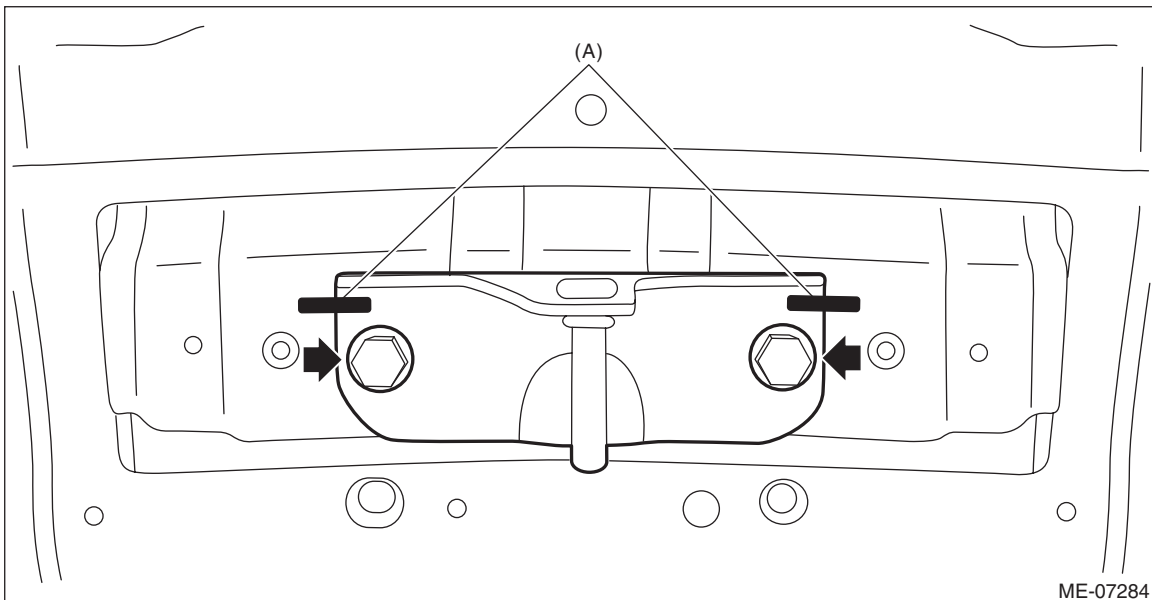
**4.5 N·m (0.5 kgf-m, 3.3 ft-lb)**



20) Align the alignment marks (A), and install the front hood striker to the front hood.

**Tightening torque:**

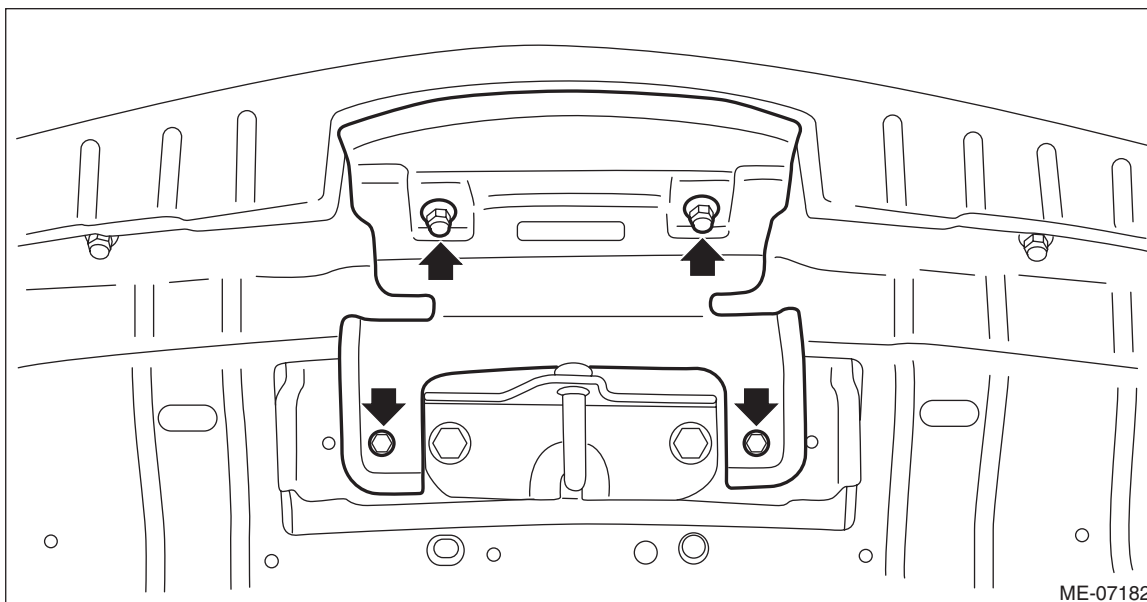
**33 N·m (3.4 kgf-m, 24.3 ft-lb)**



21) Install the upper grille bracket to the front hood, and close the front hood.

**Tightening torque:**

**4.5 N·m (0.5 kgf-m, 3.3 ft-lb)**

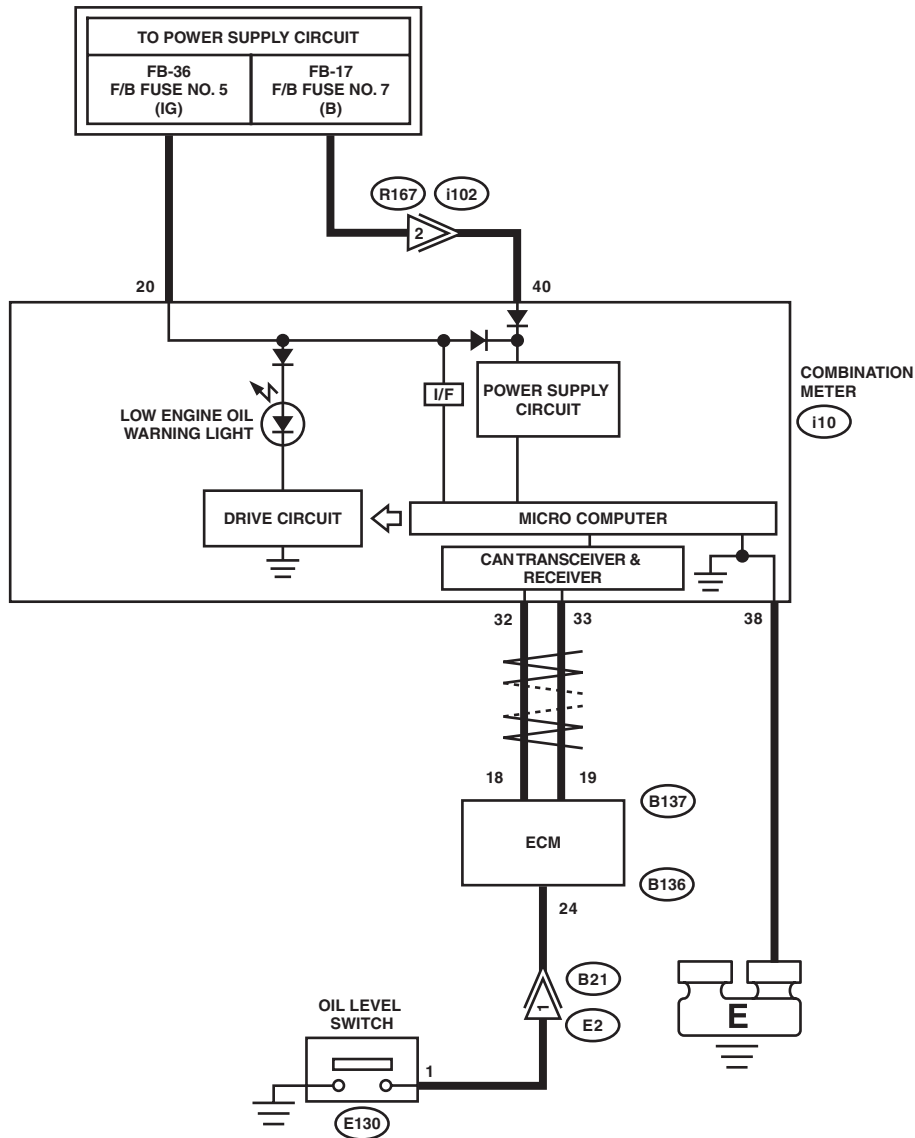


# Oil Level Switch

## LUBRICATION

### C: WIRING DIAGRAM

- Engine electrical system <Ref. to WI-166, WIRING DIAGRAM, Engine Electrical System.>
- CAN communication system <Ref. to WI-96, WIRING DIAGRAM, CAN Communication System.>
- Non-turbo model



**B137**

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**B136**

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

**I102**

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	

**I10**

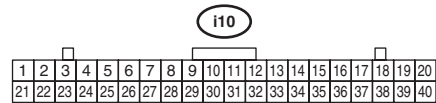
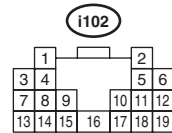
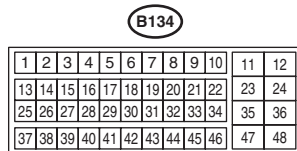
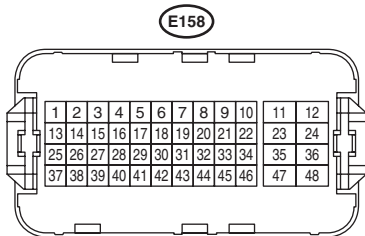
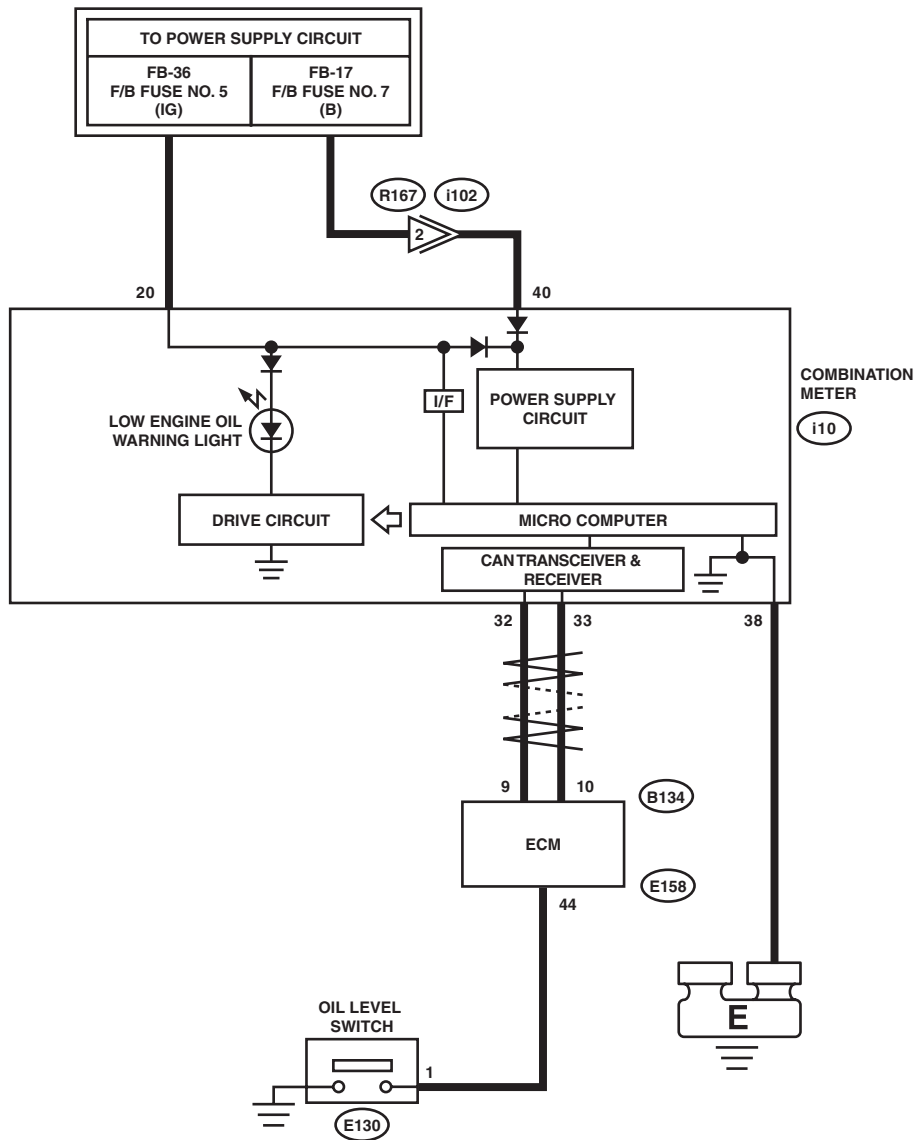
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

**B21**

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	

LU-03076

- Turbo model



LU-03077



# Oil Level Switch

## LUBRICATION

### D: INSPECTION

#### 1. INSPECTION WHILE LOW ENGINE OIL LEVEL WARNING LIGHT IS ON (NON-TURBO MODEL)

Step	Check	Yes	No
1 CHECK ENGINE OIL LEVEL.	Is engine oil level normal?	Go to step 2.	Replace engine oil or refill, and check again while the oil level is normal condition. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.> To turn off the low engine oil level warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil level warning light turns off. Remove the spare fuse installed to finish. NOTE: The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.
2 CHECK LAN SYSTEM.	Has a DTC of the LAN system been input?	Perform the diagnosis according to DTC.	Go to step 3.

# Oil Level Switch

LUBRICATION

Step	Check	Yes	No
<b>3</b> <b>CHECK OIL LEVEL SWITCH CIRCUIT.</b> 1) Turn the ignition switch to ON (engine OFF). 2) Read the current data for engine in the Subaru Select Monitor to confirm the item for "Oil level switch". <Ref. to EN(H4DO)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>	Is the "Oil level switch" signal displayed in Subaru Select Monitor HIGH?	To turn off the low engine oil level warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil level warning light turns off. Remove the spare fuse installed to finish. <b>NOTE:</b> The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 4.
<b>4</b> <b>CHECK COMBINATION METER.</b> Perform the self-diagnosis of combination meter to check if there are any faults in the combination meter. <Ref. to IDI-7, OPERATION, Combination Meter System.>	Is combination meter OK?	Go to step 5.	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>
<b>5</b> <b>CHECK SECURE CONNECTION OF CONNECTOR BETWEEN ENGINE HARNESS AND OIL LEVEL SWITCH.</b>	Is there any insecure connection?	Remedy the connection condition. Then, to turn off the low engine oil level warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil level warning light turns off. Remove the spare fuse installed to finish. <b>NOTE:</b> The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 6.

# Oil Level Switch

## LUBRICATION

Step	Check	Yes	No
<b>6</b> <b>CHECK OIL LEVEL SWITCH.</b> 1) Deliberately short circuits by connecting the engine harness connector terminal and chassis ground. 2) Turn the ignition switch to ON (engine OFF). 3) Read the current data for engine in the Subaru Select Monitor to confirm the item for "Oil level switch". <Ref. to EN(H4DO)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.> <b>Connector &amp; terminal</b> <b>(E130) No. 1 — Chassis ground:</b>	Is the "Oil level switch" signal displayed in Subaru Select Monitor HIGH?	Replace the oil level switch. <Ref. to LU(H4DO)-66, REMOVAL, Oil Level Switch.>	Go to step 7.
<b>7</b> <b>CHECK SECURE CONNECTION OF CONNECTOR BETWEEN BULKHEAD HARNESS AND ENGINE HARNESS.</b>	Is there any insecure connection?	Remedy the connection condition. Then, to turn off the low engine oil level warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil level warning light turns off. Remove the spare fuse installed to finish. NOTE: The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 8.
<b>8</b> <b>CHECK ENGINE HARNESS.</b> 1) Disconnect the connector on the oil level switch side for the engine harness. 2) Disconnect the connector on the bulkhead harness side for the engine harness. 3) Measure the resistance between connector terminals. <b>Connector &amp; terminal</b> <b>(E2) No. 1 — (E130) No. 1:</b>	Is the resistance less than 1 $\Omega$ ?	Go to step 9.	Repair or replace the open circuit of engine harness.

# Oil Level Switch

LUBRICATION

Step	Check	Yes	No
<b>9</b> <b>CHECK SECURE CONNECTION OF CONNECTOR BETWEEN ENGINE CONTROL MODULE (ECM) AND BULKHEAD HARNESS.</b> Remove the glove box lid assembly. <Ref. to EI-61, REMOVAL, Glove Box.>	Is there any insecure connection?	Remedy the connection condition. Then, to turn off the low engine oil level warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil level warning light turns off. Remove the spare fuse installed to finish. NOTE: The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 10.
<b>10</b> <b>CHECK BULKHEAD HARNESS.</b> 1) Remove the glove box lid assembly. <Ref. to EI-61, REMOVAL, Glove Box.> 2) Disconnect the engine control module (ECM) side connector for the bulkhead harness. 3) Disconnect the engine harness connectors from the bulkhead harness. 4) Measure the resistance between connector terminals. <b>Connector &amp; terminal</b> <b>(B136) No. 24 — (B21) No. 1:</b>	Is the resistance less than 1 $\Omega$ ?	Replace the engine control module (ECM). <Ref. to FU(H4DO)-94, REMOVAL, Engine Control Module (ECM).>	Repair or replace the open circuit of the bulkhead harness.

# Oil Level Switch

## LUBRICATION

### 2. INSPECTION WHILE LOW ENGINE OIL LEVEL WARNING LIGHT IS ON (TURBO MODEL)

Step	Check	Yes	No
1 <b>CHECK ENGINE OIL LEVEL.</b>	Is engine oil level normal?	Go to step 2.	Replace engine oil or refill, and check again while the oil level is normal condition. <Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.> To turn off the low engine oil warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil warning light turns off. Remove the spare fuse installed to finish. <b>NOTE:</b> The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.
2 <b>CHECK LAN SYSTEM.</b>	Has a DTC of the LAN system been input?	Perform the diagnosis according to DTC.	Go to step 3.
3 <b>CHECK OIL LEVEL SWITCH CIRCUIT.</b> 1) Turn the ignition switch to ON (engine OFF). 2) Read the current data for engine in the Subaru Select Monitor to confirm the item for "Oil Level Switch". <Ref. to EN(H4DOTC)(diag)-37, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>	Is the "Oil Level Switch" signal displayed in Subaru Select Monitor HIGH?	To turn off the low engine oil warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil warning light turns off. Remove the spare fuse installed to finish. <b>NOTE:</b> The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 4.

# Oil Level Switch

LUBRICATION

Step	Check	Yes	No
<b>4</b> <b>CHECK COMBINATION METER.</b> Perform the self-diagnosis of combination meter to check if there are any faults in the combination meter. <Ref. to IDI-7, OPERATION, Combination Meter System.>	Is combination meter OK?	Go to step 5.	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>
<b>5</b> <b>CHECK SECURE CONNECTION OF CONNECTOR BETWEEN ENGINE HARNESS AND OIL LEVEL SWITCH.</b>	Is there any insecure connection?	Remedy the connection condition. Then, to turn off the low engine oil warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil warning light turns off. Remove the spare fuse installed to finish. <b>NOTE:</b> The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 6.
<b>6</b> <b>CHECK OIL LEVEL SWITCH.</b> 1) Deliberately short circuits by connecting the engine harness connector terminal and chassis ground. 2) Turn the ignition switch to ON (engine OFF). 3) Read the current data for engine in the Subaru Select Monitor to confirm the item for "Oil Level Switch". <Ref. to EN(H4DOTC)(diag)-37, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.> <b>Connector &amp; terminal</b> <b>(E130) No. 1 — Chassis ground:</b>	Is the "Oil Level Switch" signal displayed in Subaru Select Monitor HIGH?	Replace the oil level switch. <Ref. to LU(H4DO)-66, REMOVAL, Oil Level Switch.>	Go to step 7.



# Oil Level Switch

## LUBRICATION

Step	Check	Yes	No
<b>7</b> <b>CHECK SECURE CONNECTION OF CONNECTOR BETWEEN ENGINE CONTROL MODULE (ECM) AND ENGINE HARNESS.</b>	Is there any insecure connection?	Remedy the connection condition. Then, to turn off the low engine oil warning light, install the spare fuse at the delivery mode fuse in the main fuse box. Then turn the ignition switch to ON (engine OFF) again to confirm the low engine oil warning light turns off. Remove the spare fuse installed to finish. NOTE: The engine oil level switch is normal if the low engine oil level warning light turns off with the delivery mode fuse inserted.	Go to step 8.
<b>8</b> <b>CHECK ENGINE HARNESS.</b> 1) Disconnect the engine control module (ECM) side connector. 2) Set the ST between the engine control module (ECM) and engine harness. <Ref. to EN(H4DOTC)(diag)-6, CAUTION, General Description.> 3) Disconnect the connector between the engine harness and the oil level switch. 4) Measure the resistance between connector terminals. <b>Connector &amp; terminal</b> <b>(B158) No. 44 — (B130) No. 1:</b>	Is the resistance less than 1 $\Omega$ ?	Replace the engine control module (ECM). <Ref. to FU(H4DOTC)-134, REMOVAL, Engine Control Module (ECM).>	Repair or replace the open circuit of engine harness.

### 3. OTHER INSPECTIONS

- 1) Check that the oil level switch does not have deformation, cracks, or damage.
- 2) Check the oil level switch installation part for oil leakage and oil seepage.