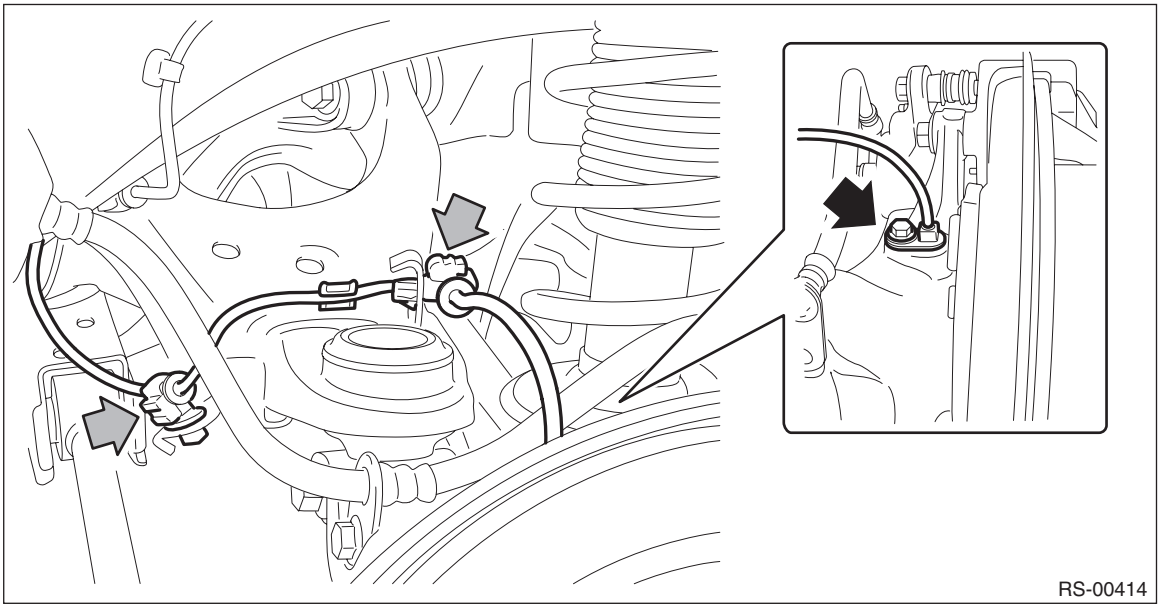
3. Rear Sub Frame

A: REMOVAL

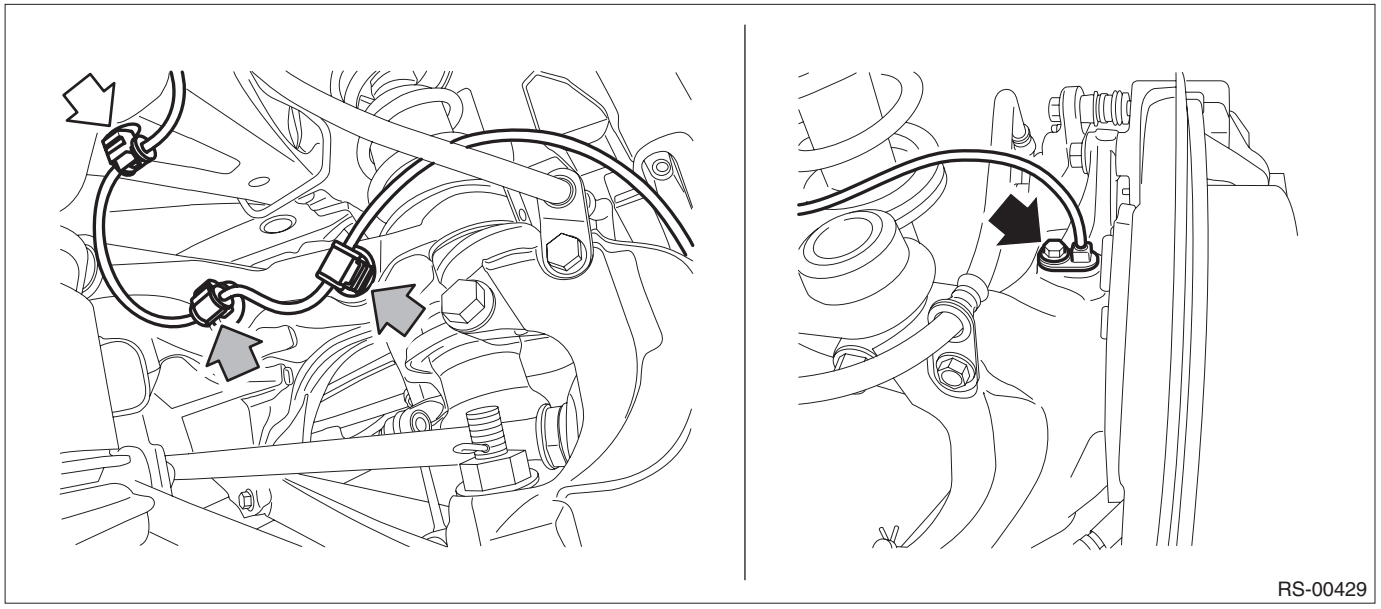
1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:
For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.
2) Lift up the vehicle, and then remove the rear wheels.
3) Remove the propeller shaft assembly. <Ref. to DS-12, REMOVAL, Propeller Shaft.>
4) Remove the clip and bolt on the harness clamp, and remove the rear ABS wheel speed sensor.

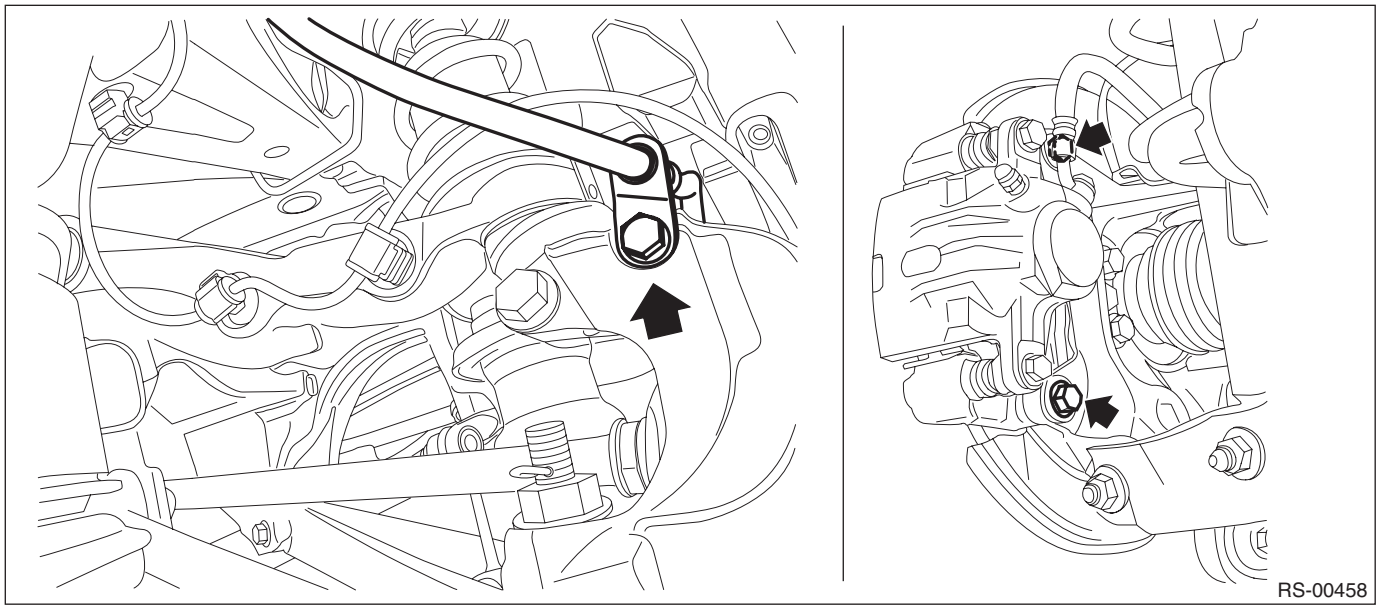
CAUTION:
- **Be careful not to damage the sensor.**
- **Do not apply excessive force to the sensor harness.**
- **Leave the sensor harness clamp (white arrow) on the vehicle side.**
- Except for XV model



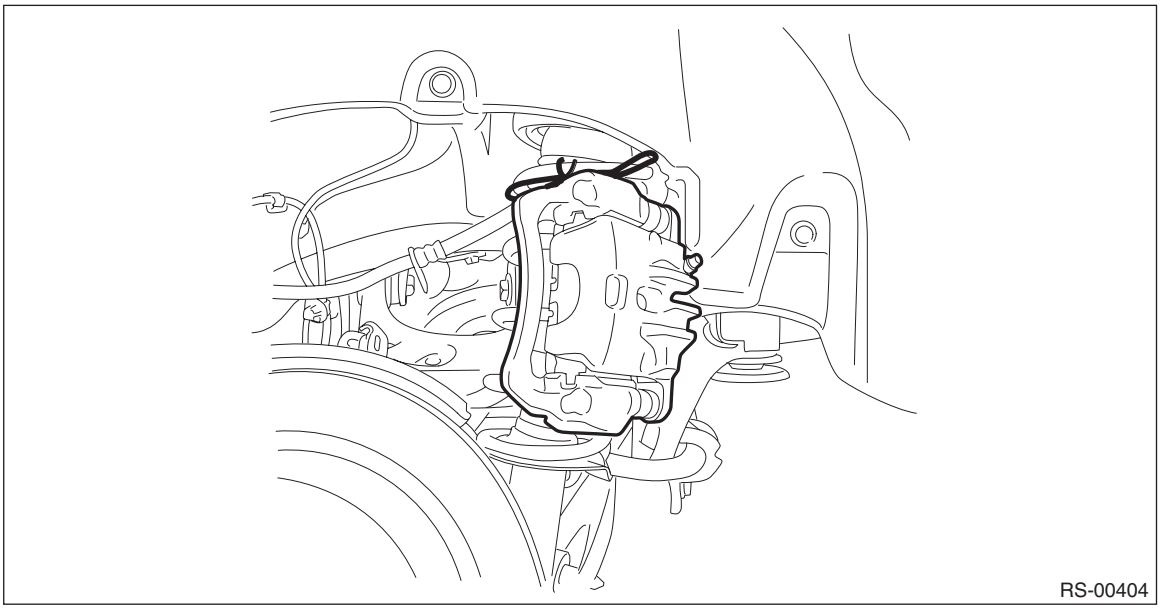
- XV model



5) Remove the caliper body assembly from the housing assembly - rear axle.
(1) Remove the bolts and then remove the brake hose bracket and caliper body assembly.

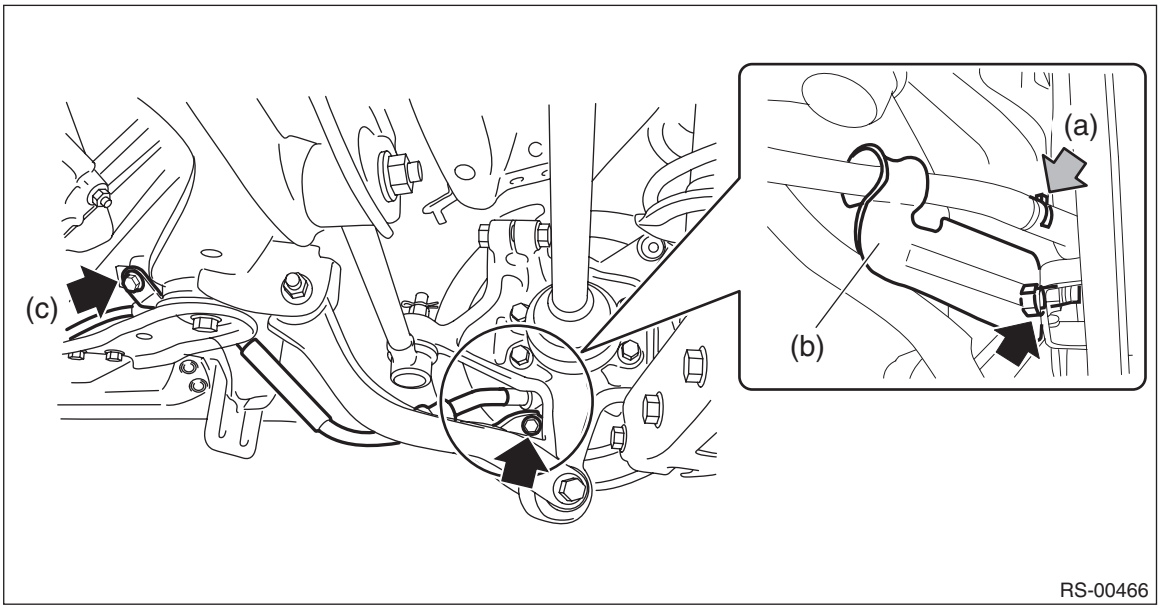


(2) Prepare wiring harnesses etc. to be discarded, and suspend the caliper body assembly from the strut assembly.

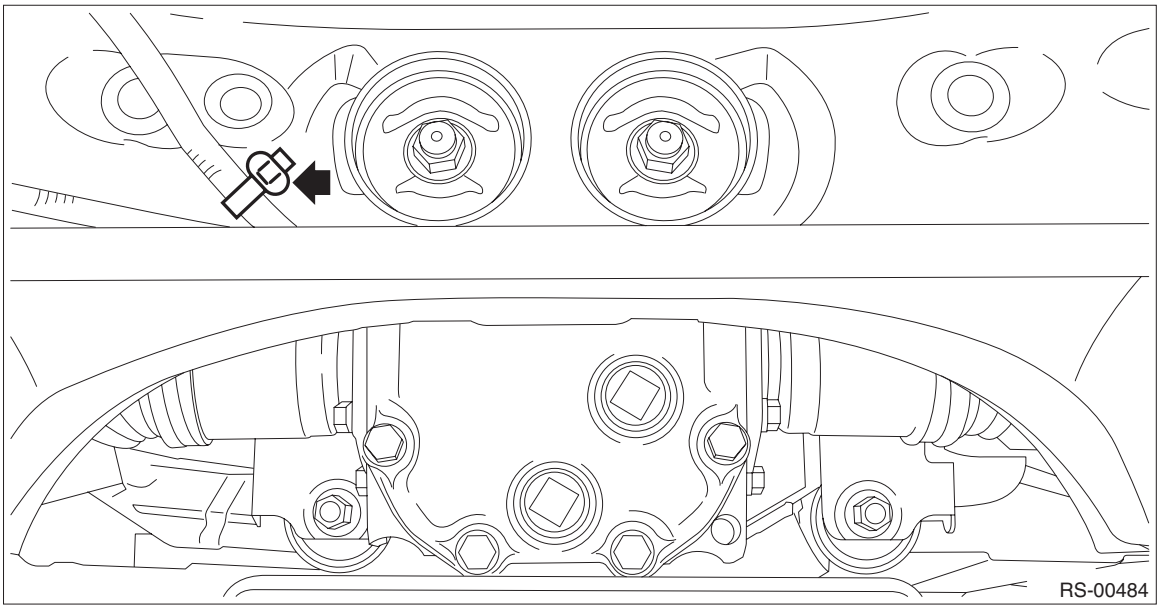


6) Remove the rear parking brake cable from the parking brake assembly. <Ref. to PB-14, REMOVAL, Parking Brake Assembly (Rear Disc Brake).>

7) Remove the rear parking brake cable from the back plate - rear brake.
   (1) Remove the clamp B - hand brake cable (a) from the back plate - rear brake.
   (2) Remove the cable clamp (b) from the back plate - rear brake.
   (3) Remove the cable clamp (c) and pull out the cable assembly - parking brake.



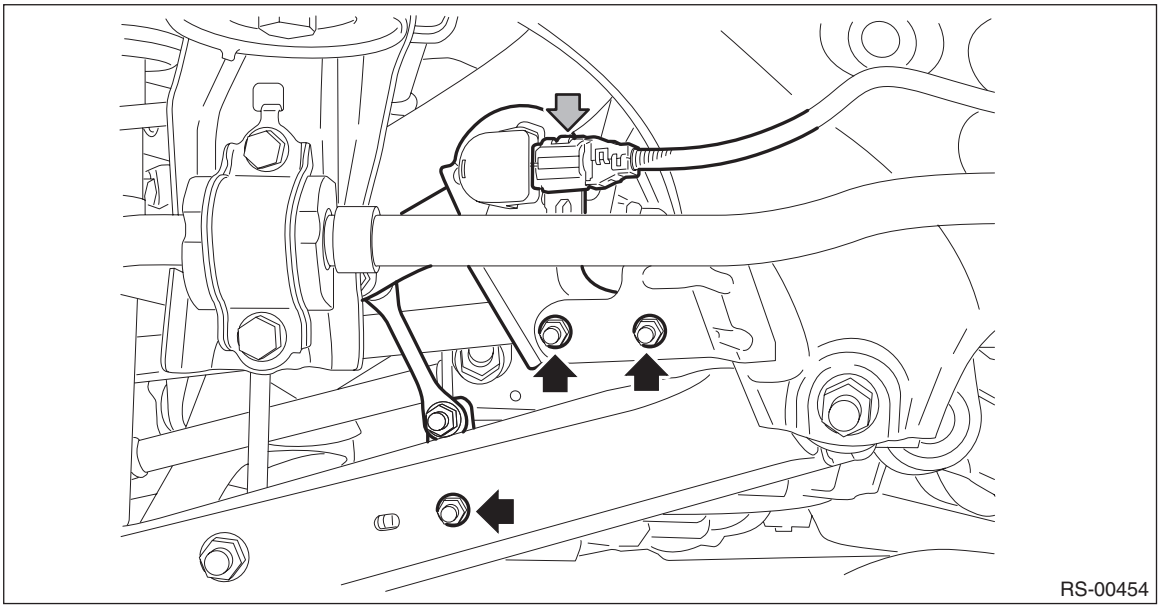
8) Remove the clamp of the sub rear harness.



9) Remove the sensor assembly - headlight beam leveler. (Model with auto headlight beam leveler, left side only)

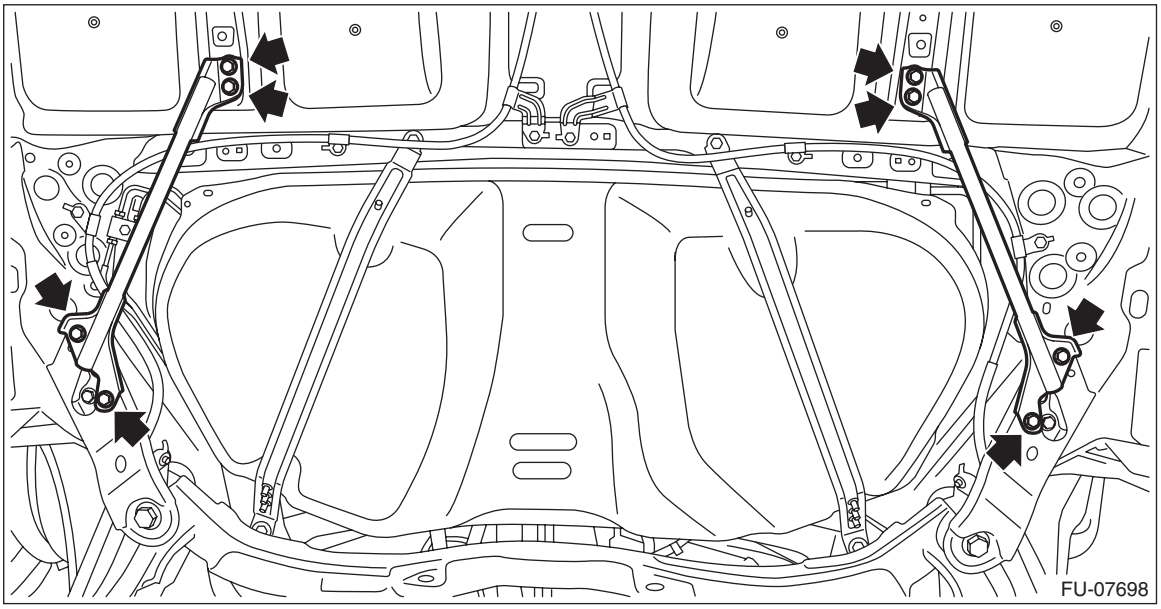
CAUTION:
Do not apply impact to the sensor assembly - headlight beam leveler or forcibly move the arm. Doing so may cause sensor damage and malfunction.

(1) Disconnect the connector of the sensor assembly - headlight beam leveler.
(2) Remove the nuts, and remove the sensor assembly - headlight beam leveler.

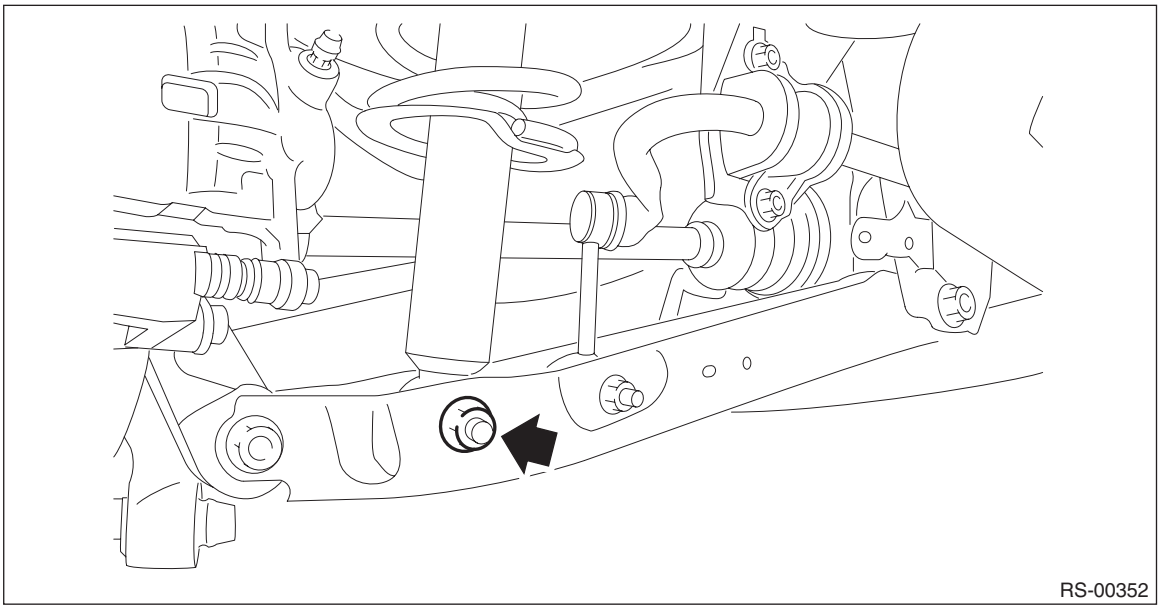

RS-00454

10) Remove the bolt and nuts and remove the fuel tank protector.
- Gasoline engine model: <Ref. to FU(H4DO(w/o HEV))-114, REMOVAL, Fuel Tank Protector.>
- HEV model: <Ref. to FU(H4DO(HEV))-104, REMOVAL, Fuel Tank Protector.>

11) Remove the rear sub frame assembly.
(1) Remove the bolts, and remove the stay - rear frame COMPL. (XV model)


FU-07698

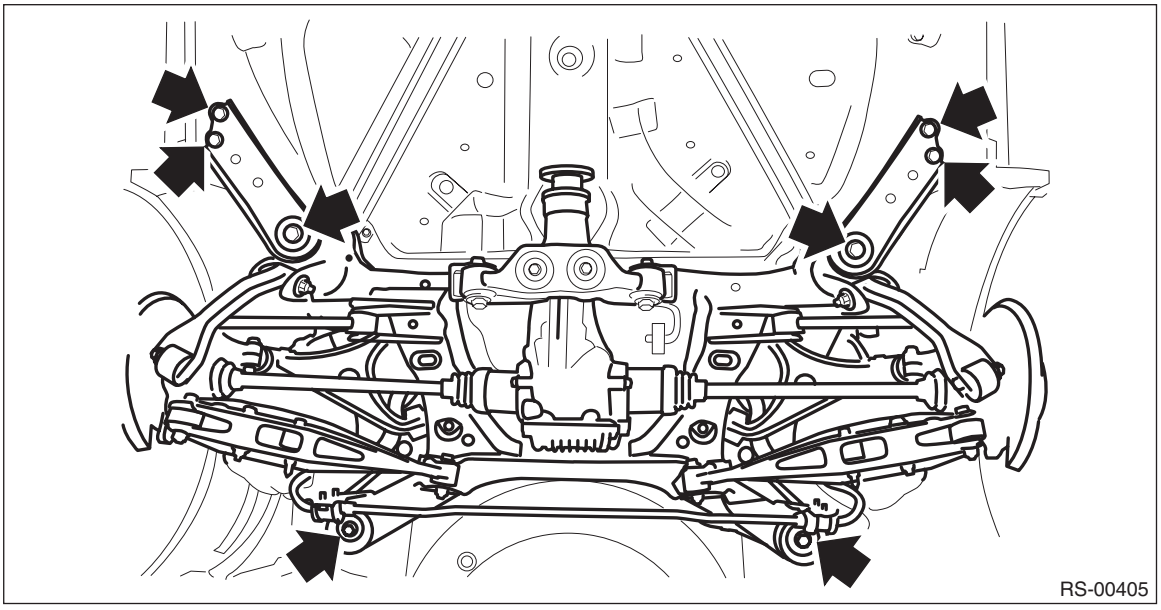
(2) Remove the bolts at the bottom of rear strut assembly.



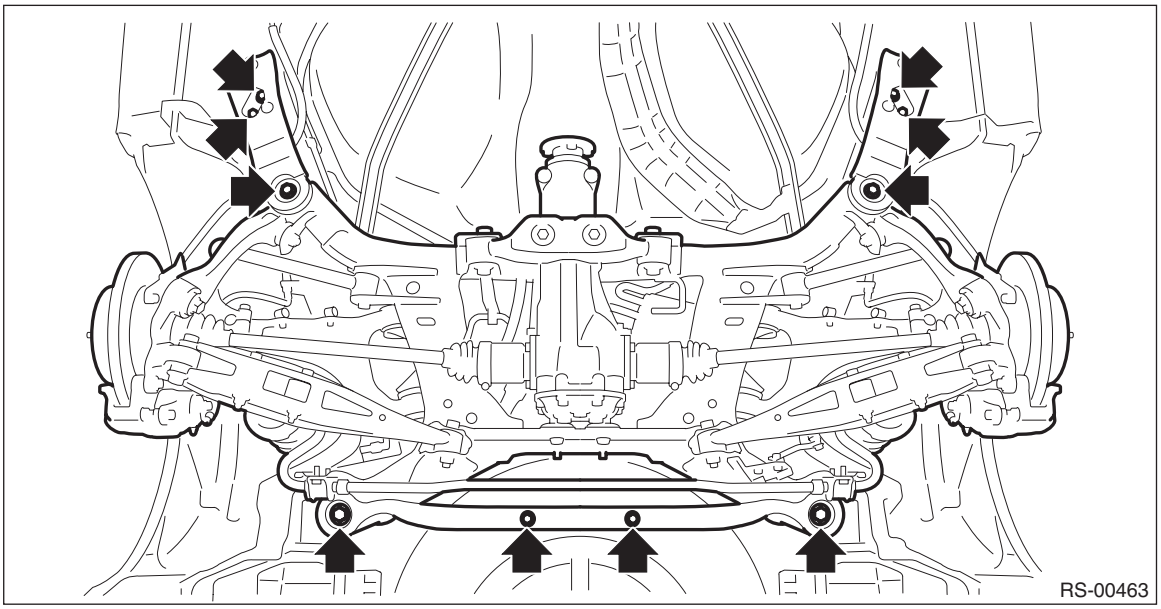
(3) Support the rear sub frame assembly using a transmission jack.
(4) Remove the bolt, and remove the left and right sub frame supports.

(5) Remove the bolts, then remove the rear sub frame assembly.

- Gasoline engine model



- HEV model



12) As necessary, remove each part from the rear sub frame assembly.

B: INSTALLATION

CAUTION:
- **Be sure to use a new self-locking nut.**
- **Always tighten the bushing in the state where the vehicle is at curb weight and the wheels are in full contact with the ground.**

1) Check the removed parts for wear, damage and crack, and repair or replace them if faulty.
2) Install each part in the reverse order of removal.

Tightening torque:

- ***Rear suspension parts: <Ref. to RS-3, COMPONENT, General Description.>***
- ***Fuel tank protector (gasoline engine model): <Ref. to FU(H4DO(w/o HEV))-114, REMOVAL, Fuel Tank Protector.>***
- ***Fuel tank protector (HEV model): <Ref. to FU(H4DO(HEV))-104, REMOVAL, Fuel Tank Protector.>***
- ***Rear disc brake parts: <Ref. to BR-5, REAR DISC BRAKE, COMPONENT, General Description.>***
- ***Parking brake parts: <Ref. to PB-3, PARKING BRAKE LEVER & CABLE, COMPONENT, General Description.>***
- ***Exhaust pipe parts: <Ref. to EX(H4DO(w/o HEV))-2, FRONT EXHAUST PIPE AND CENTER EXHAUST PIPE, COMPONENT, General Description.>***
- ***Propeller shaft parts: <Ref. to DS-13, INSTALLATION, Propeller Shaft.>***

3) Bleed air from brake system. <Ref. to BR-64, BRAKE LINE, PROCEDURE, Air Bleeding.>
4) Install the rear wheels.

Tightening torque:
Except for C4 model: 120 N·m (12.24 kgf-m, 88.5 ft-lb)
C4 model: 100 N·m (10.20 kgf-m, 73.8 ft-lb)

5) Inspect the wheel alignment and adjust if necessary.
- Inspection: <Ref. to FS-7, INSPECTION, Wheel Alignment.>
- Adjustment: <Ref. to FS-12, ADJUSTMENT, Wheel Alignment.>

CAUTION:
When the wheel alignment has been adjusted, perform the following VDC setting mode.
– Model without EyeSight: VDC sensor midpoint setting mode <Ref. to VDC-26, VDC SENSOR MIDPOINT SETTING MODE (MODELS WITHOUT EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
– Model with EyeSight: Neutral of Steering Angle Sensor & Lateral G Sensor 0 point setting <Ref. to VDC-26, NEUTRAL OF STEERING ANGLE SENSOR & LATERAL G SENSOR 0 POINT SETTING (MODEL WITH EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
– Model with EyeSight: Longitudinal G sensor & lateral G sensor 0 point setting <Ref. to VDC-27, LONGITUDINAL G SENSOR & LATERAL G SENSOR 0 POINT SETTING MODE (MODEL WITH EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

6) Connect the battery ground terminal.
7) Perform reinitialization of the auto headlight beam leveler system. (Model with auto headlight beam leveler) <Ref. to LI-20, PROCEDURE, Auto Headlight Beam Leveler System.>

C: INSPECTION

Check the removed parts for wear, damage and crack, and repair or replace them if faulty.