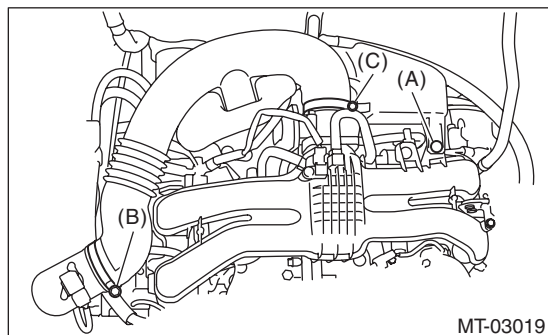


### 7. Switches and Harness

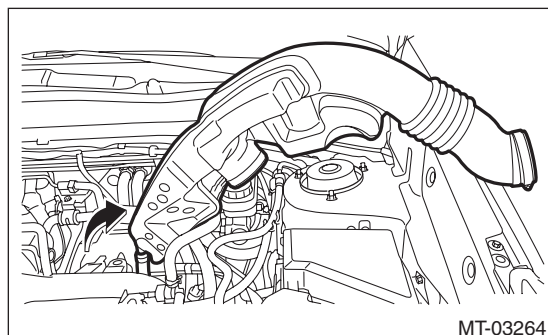
#### A: REMOVAL

##### 1. BACK-UP LIGHT AND NEUTRAL POSITION SWITCH

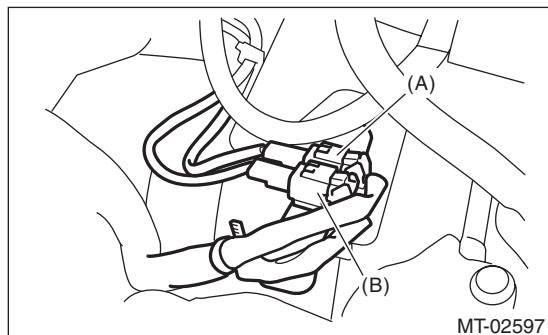
- 1) Disconnect the ground cable from battery.
- 2) Remove the clip (A) from the air intake boot.
- 3) Loosen the clamp (B) connecting the air intake boot and air cleaner case (rear).
- 4) Loosen the clamp (C) which connects the air intake boot and throttle body.



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



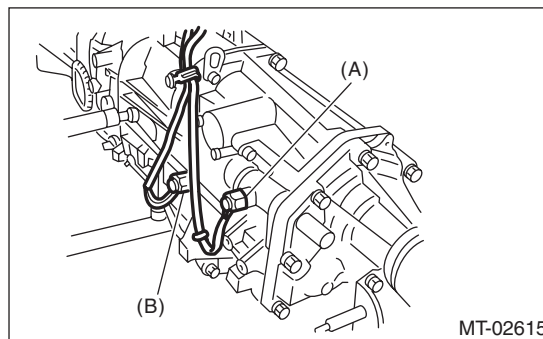
- 6) Disconnect the connector back-up light switch & neutral position switch.



- (A) Neutral position switch connector (brown)  
(B) Back-up light switch connector (gray)

- 7) Remove the harness connector from bracket.
- 8) Lift up the vehicle.
- 9) Remove the harness from each clip.

- 10) Remove the back-up light switch & neutral position switch with the harness.



- (A) Neutral position switch  
(B) Back-up light switch

#### B: INSTALLATION

##### 1. BACK-UP LIGHT AND NEUTRAL POSITION SWITCH

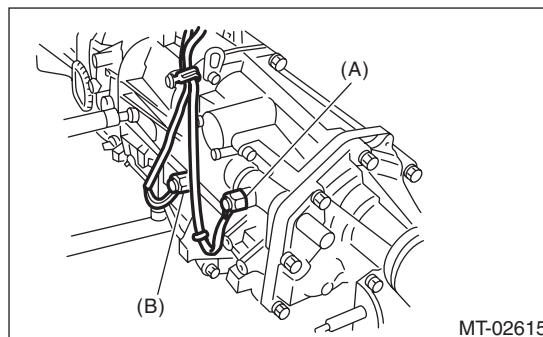
- 1) Install the back-up light switch & neutral position switch with the harness.

#### NOTE:

Use a new gasket.

#### Tightening torque:

**32.3 N·m (3.3 kgf-m, 23.8 ft-lb)**



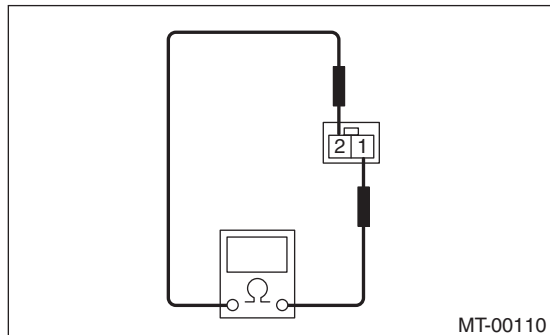
- (A) Neutral position switch  
(B) Back-up light switch

- 2) Secure the harness on each clip.
- 3) Lower the vehicle.
- 4) Connect the connectors for back-up light switch and neutral position switch, and secure the connector to the bracket.
- 5) Install the air intake boot. <Ref. to IN(H4DO(w/o HEV))-12, INSTALLATION, Air Intake Boot.>
- 6) Connect the battery ground terminal.

### C: INSPECTION

#### 1. BACK-UP LIGHT SWITCH

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the back light switch connector.
- 3) Measure the resistance between the back-up light switch terminals.

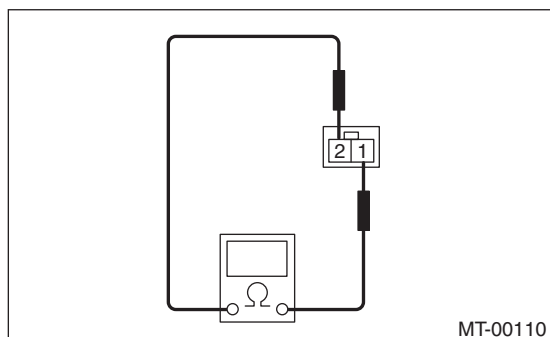


Gear shift position	Terminal No.	Specified resistance
Reverse position	1 and 2	Less than 1 $\Omega$
Other positions		1 M $\Omega$ or more

- 4) Replace faulty parts.

#### 2. NEUTRAL POSITION SWITCH

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the connector of neutral position switch.
- 3) Measure the resistance between neutral position switch terminals.



Gear shift position	Terminal No.	Specified resistance
Neutral position	1 and 2	Less than 1 $\Omega$
Other positions		1 M $\Omega$ or more

- 4) Replace faulty parts.