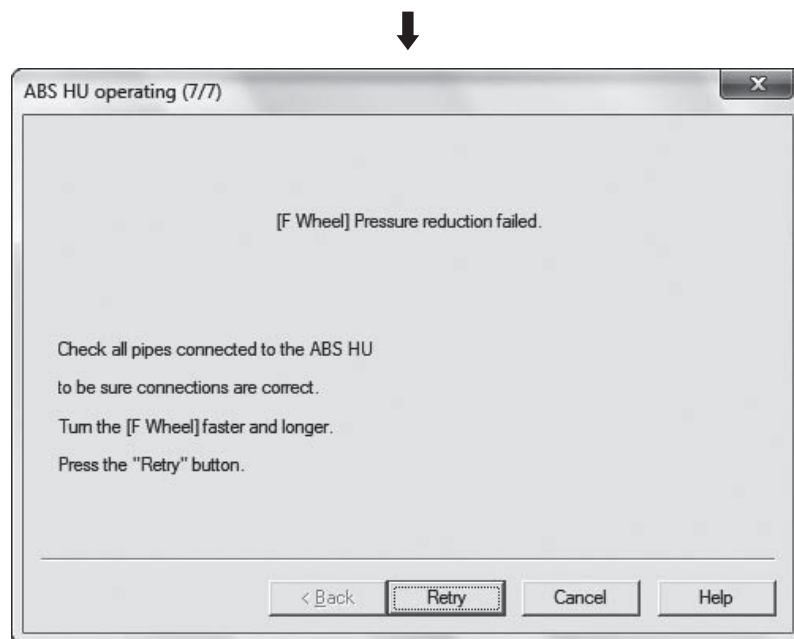


NOTE

- In normal cases, the front brake lever feels a reaction force and the front wheel turns discontinuously. At the same time, the ABS HU operating sound will be heard.
- The ABS HU motor operates for 6 seconds and then stops automatically.



ID15H1450035-01

NOTE

- Inspect the rear brake in the same manner of front brake.
- If the ABS does not function, the cause may lie in the ABS control unit/HU.
- In checking the rear brake at the time of pressure reduction drive (4/7), "brake lever" appears on the screen. This is because the present screen shares with other model having front brake only. Therefore, in the case of rear brake pedal equipped vehicle, ignore this instruction and operate the rear brake pedal.

7) Close the SDS tool and turn the ignition switch OFF.

8) Disconnect the SDS tool and install the front seat.

DTC Table

BEND15H24504008

DTC	Malfunction cause	Indicator status	Reference
None	Normal	ON ^{*1}	—
13 (C1613)	Wheel speed sensor rotor malfunction (F)	ON	Refer to "DTC "13" (C1613): Wheel Speed Sensor Rotor Malfunction (F)" (Page 4E-32).
14 (C1614)	Wheel speed sensor rotor malfunction (R)	ON	Refer to "DTC "14" (C1614): Wheel Speed Sensor Rotor Malfunction (R)" (Page 4E-33).
22 (C1622)	ABS actuator circuit malfunction (F)	ON	Refer to "DTC "22" (C1622): ABS Actuator Circuit Malfunction (F)" (Page 4E-35).
23 (C1623)	ABS actuator circuit malfunction (R)	ON	Refer to "DTC "23" (C1623): ABS Actuator Circuit Malfunction (R)" (Page 4E-36).
25 (C1625)	Wheel speed sensor related malfunction	ON	Refer to "DTC "25" (C1625): Wheel Speed Sensor Related Malfunction" (Page 4E-37).

DTC	Malfunction cause	Indicator status	Reference
35 (C1635)	ABS motor malfunction	ON	Refer to "DTC "35" (C1635): ABS Motor Malfunction" (Page 4E-38).
41 (C1641)	Wheel speed sensor signal malfunction (F) *2	ON	Refer to "DTC "41" (C1641): Wheel Speed Sensor Signal Malfunction (F)" (Page 4E-38).
42 (C1642)	Wheel speed sensor circuit open (F) *2	ON	Refer to "DTC "42" (C1642): Wheel Speed Sensor Circuit Open (F)" (Page 4E-39).
43 (C1643)	Wheel speed sensor circuit short (F) *2	ON	Refer to "DTC "43" (C1643): Wheel Speed Sensor Circuit Short (F)" (Page 4E-45).
44 (C1644)	Wheel speed sensor signal malfunction (R) *2	ON	Refer to "DTC "44" (C1644): Wheel Speed Sensor Signal Malfunction (R)" (Page 4E-46).
45 (C1645)	Wheel speed sensor circuit open (R) *2	ON	Refer to "DTC "45" (C1645): Wheel Speed Sensor Circuit Open (R)" (Page 4E-47).
46 (C1646)	Wheel speed sensor circuit short (R) *2	ON	Refer to "DTC "46" (C1646): Wheel Speed Sensor Circuit Short (R)" (Page 4E-51).
47 (C1647)	Supply voltage (Increased)	ON	Refer to "DTC "47" (C1647): Supply Voltage (Increased)" (Page 4E-53).
48 (C1648)	Supply voltage (Decreased)	ON	Refer to "DTC "48" (C1648): Supply Voltage (Decreased)" (Page 4E-55).
55 (C1655)	ABS control unit malfunction	ON	Refer to "DTC "55" (C1655): ABS Control Unit Malfunction" (Page 4E-57).
61 (C1661)	ABS solenoid malfunction	ON	Refer to "DTC "61" (C1661): ABS Solenoid Malfunction" (Page 4E-58).

*1: It goes off after running at more than 10 km/h (6.2 mile/h).

*2: The wheel speed sensor lead wire is connected to the ABS control unit, but a short-circuit or faulty continuity inside the ABS control unit caused this DTC to appear, therefore, the ABS control unit/HU assembly must be replaced. An insufficient wheel speed sensor output voltage is the cause of a malfunction in which the ABS is activated even if the brakes are not suddenly applied. If this occurs frequently even though the wheel speed sensor is operating correctly, the ABS control unit/HU assembly should be replaced.

▲ CAUTION

When disconnecting couplers and turning the ignition switch ON, disconnect the ABS control unit coupler in order to prevent a DTC from being stored. Each time a resistance is measured, the ignition switch should be set to OFF.

DTC “47” (C1647): Supply Voltage (Increased)**Possible Cause**


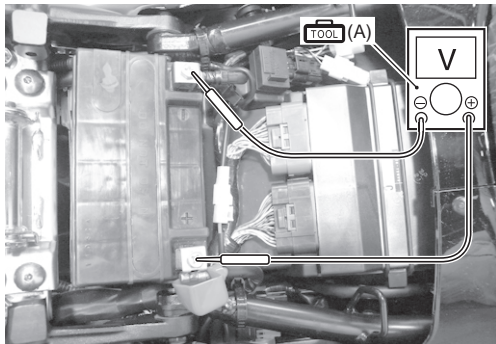

- Faulty regulator/rectifier
- Faulty ABS control unit
- Faulty wire harness, etc.

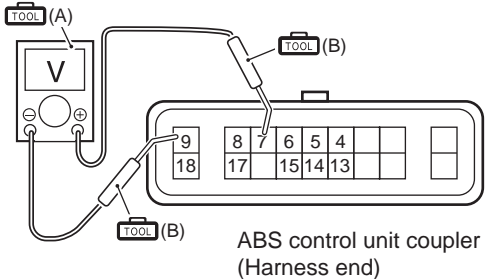
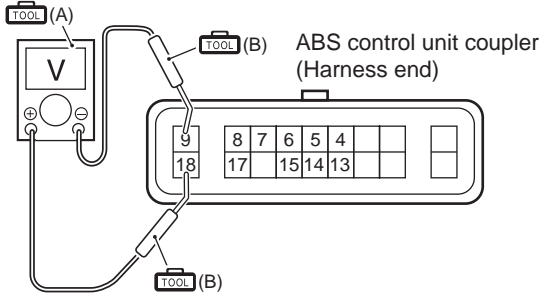
Wiring Diagram

Refer to “ABS Control Unit/HU Diagram” (Page 4E-8).

Troubleshooting**NOTE**

After repairing the trouble, clear the DTC using SDS tool. Refer to “DTC (Diagnostic Trouble Code) Deleting” (Page 4E-22).

Step	Action	Yes	No
1	<p>1) Turn the ignition switch to OFF.</p> <p>2) Remove the front seat. Refer to “Exterior Parts Removal and Installation” in Section 9D in related manual.</p> <p>3) Measure the voltage between the (+) and (–) battery terminals using the multi-circuit tester.</p> <p>Special tool  (A): 09900–25008 (Multi-circuit tester set)</p> <p>Tester knob indication Voltage (---)</p> <p>Battery voltage 12.0 V and more</p>  <p>ID15H1450014-02</p> <p><i>Is the voltage over 12 V?</i></p>	Go to Step 2.	Charge or replace the battery.
2	<p>1) Start the engine at 5 000 r/min with the dimmer switch set to HI.</p> <p>2) Measure the voltage between the (+) and (–) battery terminals.</p> <p>Special tool  : 09900–25008 (Multi-circuit tester set)</p> <p>Tester knob indication Voltage (---)</p> <p>Regulated voltage 14.0 – 15.5 V at 5 000 r/min</p> <p><i>Is the voltage 14.0 – 15.5 V?</i></p>	Go to Step 3.	Inspect the regulator/rectifier. Refer to “Regulator / Rectifier Inspection” in Section 1J (Page 1J-1).

Step	Action	Yes	No
3	<p>1) Turn the ignition switch OFF.</p> <p>2) Lift and support the fuel tank with the prop stay. Refer to "Fuel Tank Removal and Installation" in Section 1G (Page 1G-3).</p> <p>3) Check the ABS control unit coupler for loose or poor contacts. If OK, then disconnect the ABS control unit coupler. Refer to "ABS Control Unit Coupler Disconnect and Connect" (Page 4E-59).</p> <p>4) Remove the prop stay and lower the fuel tank.</p> <p>5) Start the engine at 5 000 r/min with the dimmer switch set to HI.</p> <p>6) Measure the voltage between "7" (O/Y) and "9" (B/W) at the coupler.</p> <p>Special tool TOOL (A): 09900-25008 (Multi-circuit tester set) TOOL (B): 09900-25009 (Needle pointed probe set)</p> <p>Tester knob indication Voltage (---)</p>  <p>ABS control unit coupler (Harness end)</p> <p>ID15H1450018-01</p> <p><i>Is the voltage same as Step 2?</i></p>	Go to Step 4.	Inspect the wire harness. (Faulty ignition or ground wire)
4	<p>1) Start the engine at 5 000 r/min with the dimmer switch set to HI.</p> <p>2) Measure the voltage between "18" (R/B) and "9" (B/W) at the coupler.</p> <p>Special tool TOOL (A): 09900-25008 (Multi circuit tester set) TOOL (B): 09900-25009 (Needle-point probe set)</p> <p>Tester knob indication Voltage (---)</p>  <p>ABS control unit coupler (Harness end)</p> <p>ID15H1450054-01</p> <p><i>Is the voltage same as Step 2?</i></p>	Replace the ABS control unit/HU. Refer to "ABS Control Unit/HU Removal and Installation" (Page 4E-63).	Inspect the wire harness. (Faulty power supply wire)