

<b>DTC</b>	<b>RrDEF, FRS</b>	<b>Pressure Switch Circuit</b>
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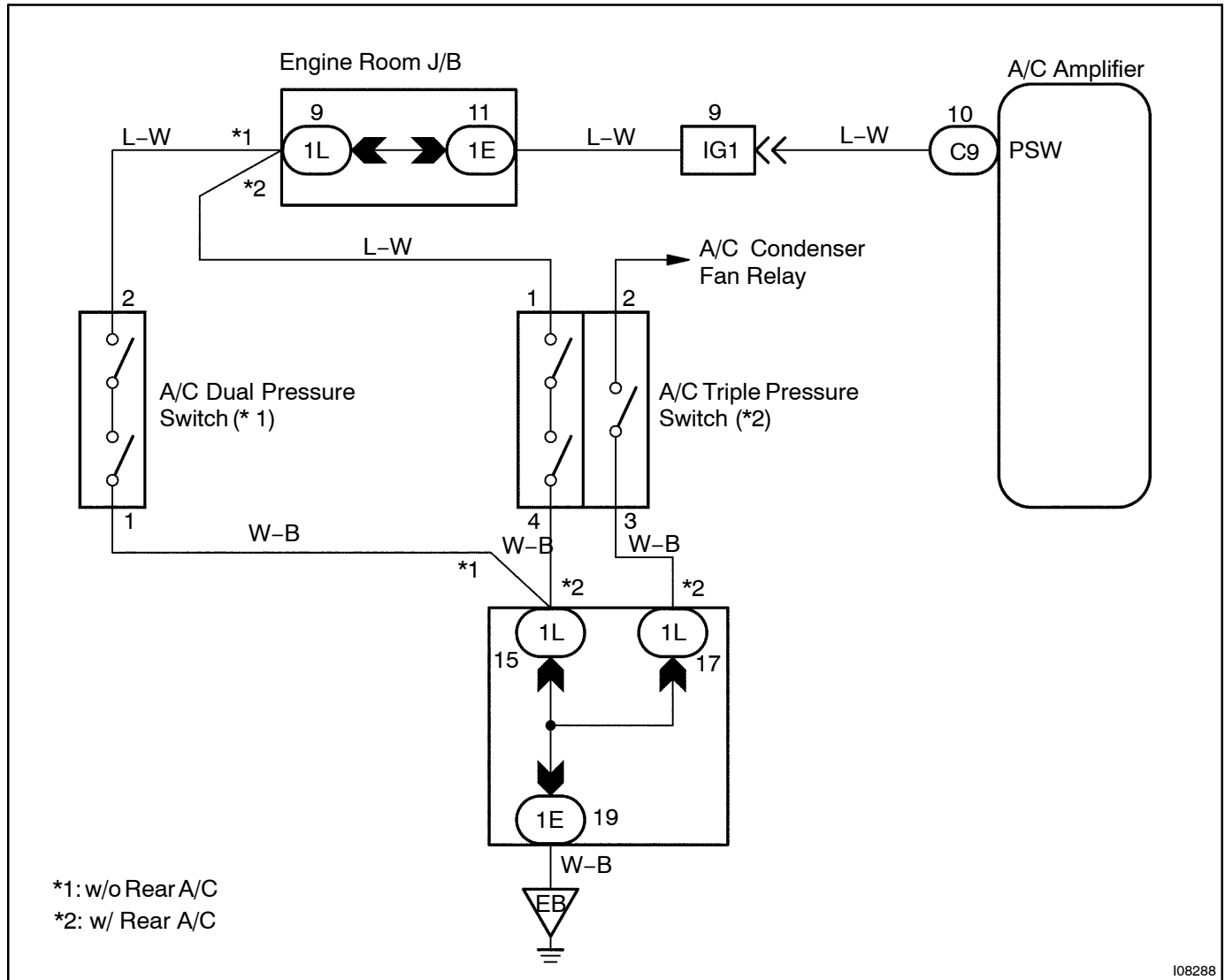
<b>DTC</b>	<b>23</b>	<b>Pressure Switch Circuit</b>
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## CIRCUIT DESCRIPTION

The pressure switch sends the appropriate signals to the A/C amplifier when the A/C refrigerant pressure drops too low or rises too high. When the A/C amplifier receives these signals, it outputs signals via the A/C amplifier to switch OFF the compressor relay and turns the magnetic clutch OFF.

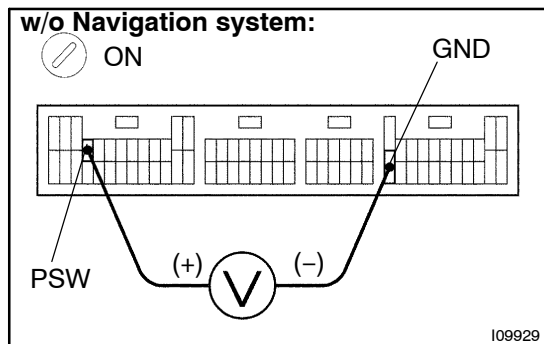
Blinking light	Detection Item	Trouble Area
RrDEF FRS	<ul style="list-style-type: none"> <li>• Open in pressure sensor circuit.</li> <li>• Abnormal refrigerant pressure. below 196 kPa (2.0 kg/cm<sup>2</sup>, 28 psi) over 3, 140 kPa (32.0 kgf/cm<sup>2</sup>, 455 psi)</li> </ul>	<ul style="list-style-type: none"> <li>• Pressure switch</li> <li>• Harness or connector between pressure switch and A/C amplifier</li> <li>• Refrigerant pipe line</li> <li>• A/C amplifier</li> </ul>
DTC No.	Detection Item	Trouble Area
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## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 Check voltage between terminals PSW and GND of A/C amplifier.

**PREPARATION:**

Install the manifold gauge set.

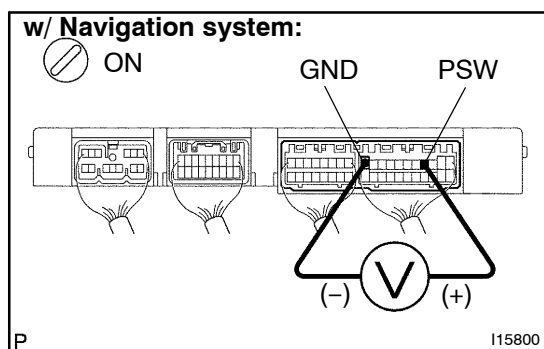
**CHECK:**

- Turn ignition switch to ON.
- Check voltage between terminal PSW of A/C amplifier connector and body ground when refrigerant pressure is changed.

**OK:**

The voltage changes with refrigerant pressure, as shown in the diagram below.

Low Pressure Cut Side	Reference: High Pressure Cut Side
ON (0V) 196 kPa OFF (12V)	ON (0V) 2,550 kPa OFF (12V)



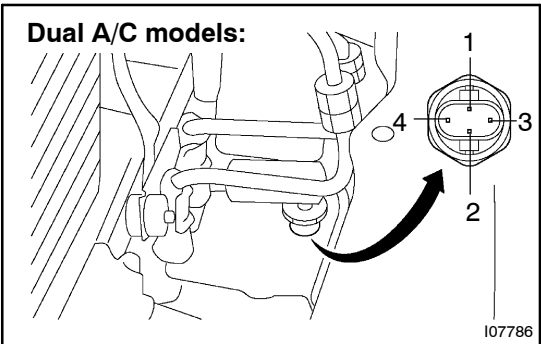
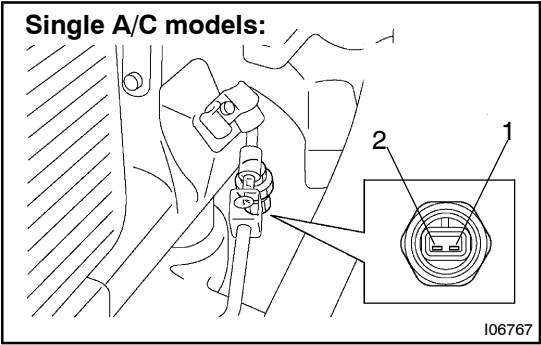
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Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table ([See page DI-130](#)). However, if RrDEF and FRS indicator light is light up (or DTC 23 is displayed), check and replace amplifier.

2 Check pressure switch.



**PREPARATION:**

Disconnect pressure switch connector.

**CHECK:**

- (a) Turn ignition switch to ON.
- (b) Single A/C models:  
Check continuity between terminals 1 and 2 of pressure switch when refrigerant pressure is changed.
- (c) Dual A/C models:  
Check continuity between terminals 1 and 4 of pressure switch when refrigerant pressure is changed.

**OK:**

The continuity changes with refrigerant pressure as shown below.

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (continuity) 196 kPa → 211 kPa	ON (continuity) 2,550 kPa → 3,140 kPa
OFF (continuity)	OFF (continuity)

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Replace pressure switch.

OK

3 Check harness and connector between A/C amplifier and pressure switch  
(See page IN-34).

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.