

DTC	RrDEF, FRS	Pressure Switch Circuit
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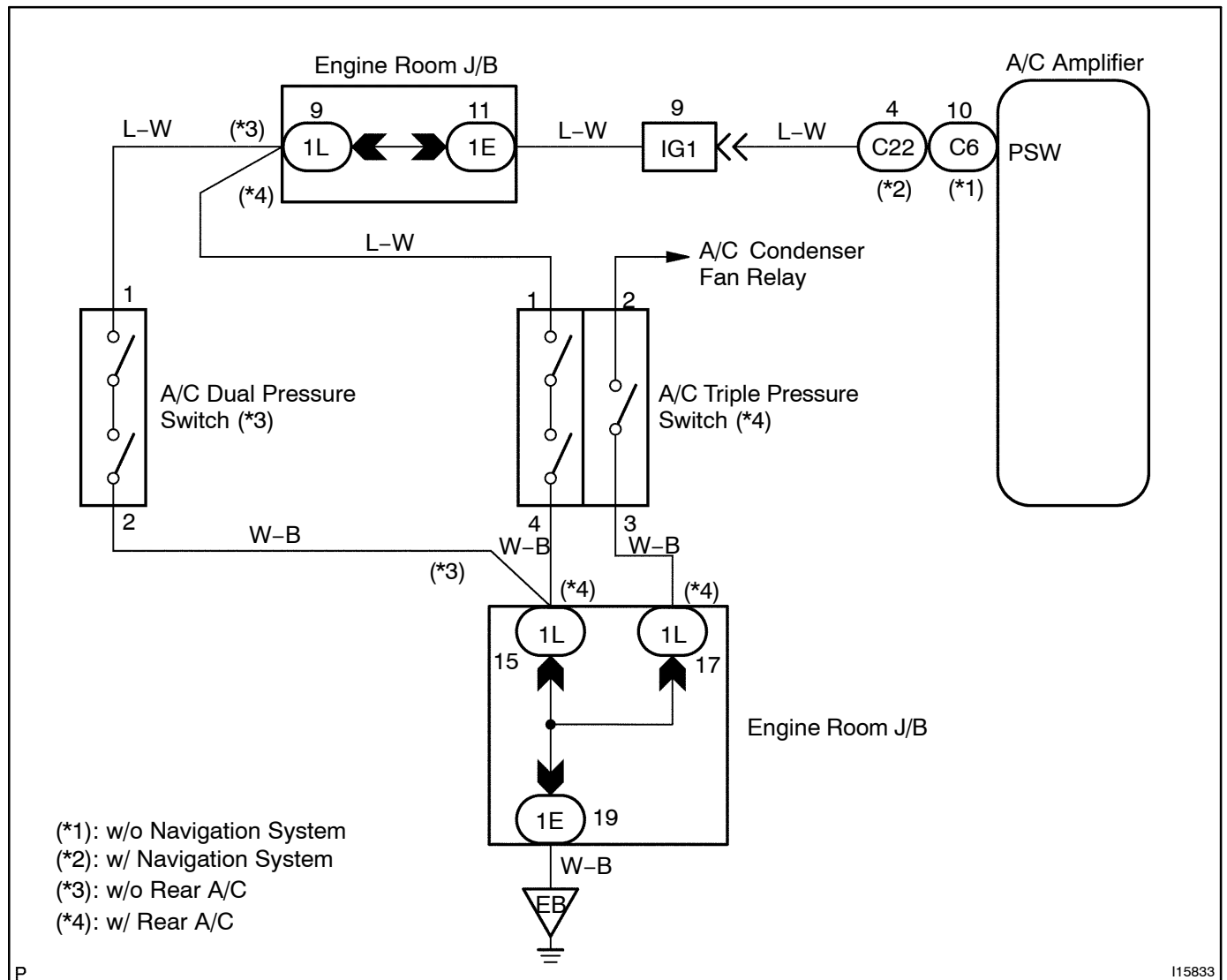
DTC	23	Pressure Switch Circuit
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CIRCUIT DESCRIPTION

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.

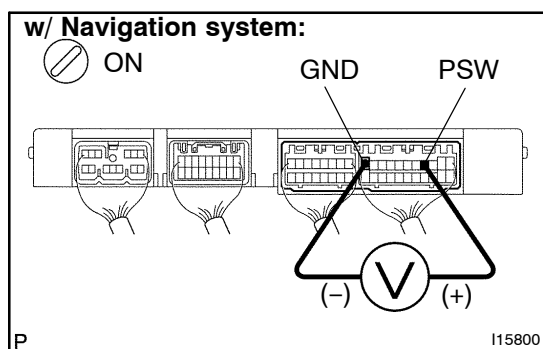
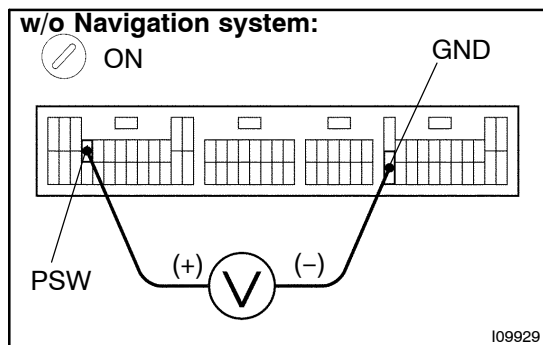
Blinking light	Detection Item	Trouble Area
RrDEF FRS	• Open in pressure sensor circuit. • Abnormal refrigerant pressure. below 196 kPa (2.0 kg/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi)	• Pressure switch • Harness or connector between pressure switch and A/C amplifier • Refrigerant pipe line • A/C amplifier
DTC No.	Detection Item	Trouble Area
23	• Open in pressure sensor circuit. • Abnormal refrigerant pressure. below 196 kPa (2.0 kg/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi)	• Pressure switch • Harness or connector between pressure switch and A/C amplifier • Refrigerant pipe line • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals PSW and GND of A/C amplifier.
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**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 3,140 kPa OFF (12V)

NG

Go to step 2.

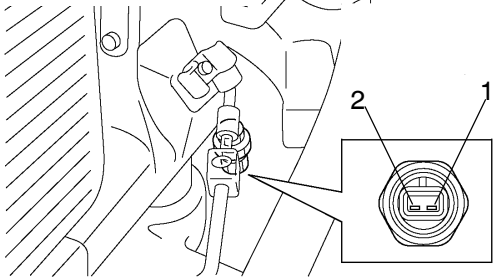
OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-891](#)). However, if RrDEF and FRS indicator light is light up (or DTC 23 is displayed), check and replace amplifier.

2

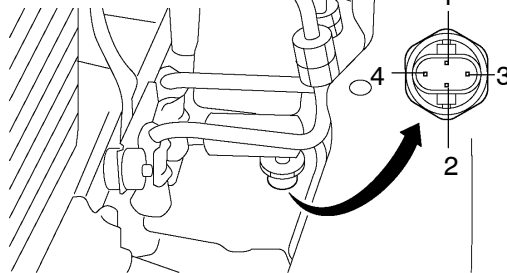
Check pressure switch.

Single A/C models:



I06767

Dual A/C models:



I07786

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 OFF (continuity)	ON (continuity) 2,550 kPa ↑ 3,140 kPa OFF (continuity)

NG

Replace pressure switch.

OK

3

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

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.