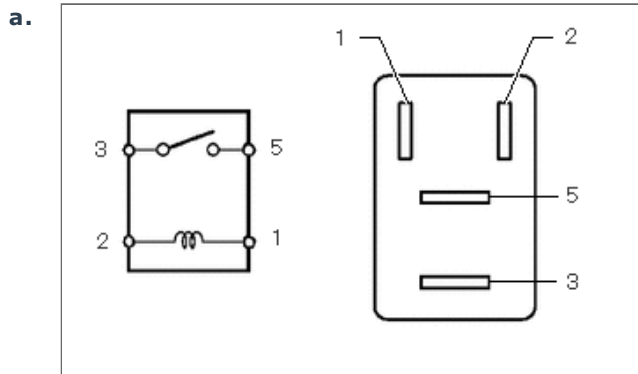


## 1GR-FE ENGINE CONTROL RELAY ON-VEHICLE INSPECTION

## PROCEDURE

## 1.INSPECT CIRCUIT OPENING RELAY (C/OPN)

85910A



Measure the resistance according to the value(s) in the table below.

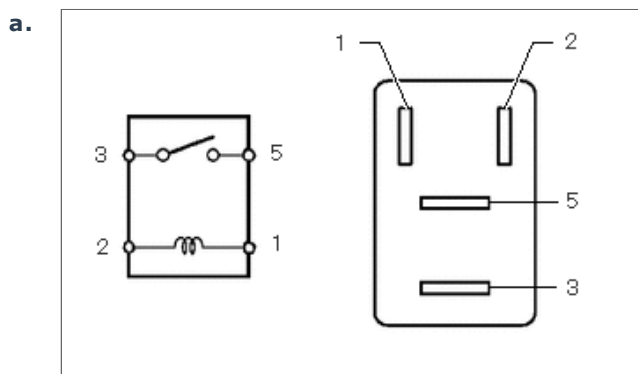
**Standard Resistance:**

Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the circuit opening relay.

## 2.INSPECT EFI MAIN RELAY (EFI MAIN)

85915A



Measure the resistance according to the value(s) in the table below.

**Standard Resistance:**

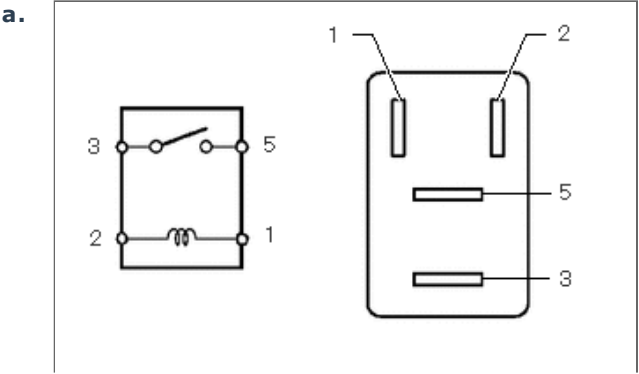
Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

Tester Connection	Condition	Specified Condition
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the EFI main relay.

### 3.INSPECT AIR FUEL RATIO SENSOR HEATER RELAY (A/F)

85915S



Measure the resistance according to the value(s) in the table below.

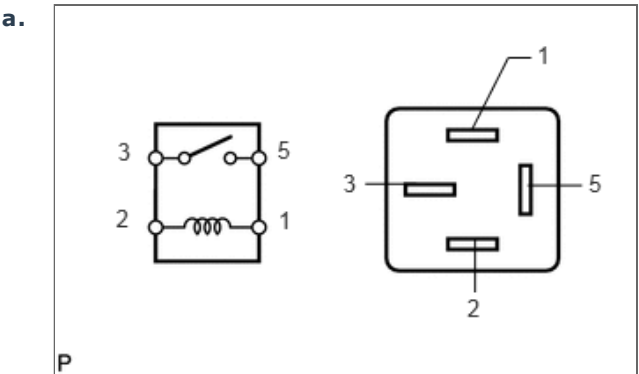
#### Standard Resistance:

Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the air fuel ratio sensor heater relay.

### 4.INSPECT NO. 1 IGNITION RELAY (IG1 RLY1)

28371



Measure the resistance according to the value(s) in the table below.

#### Standard Resistance:

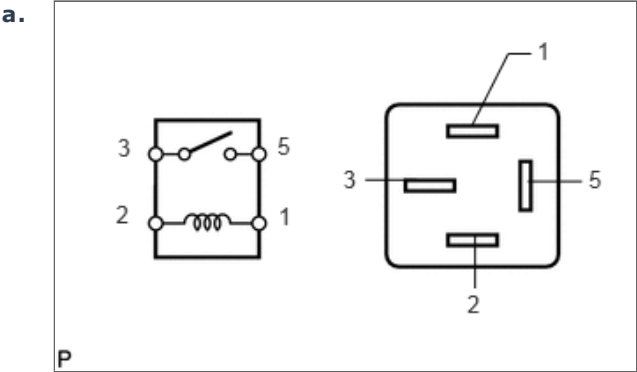
Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher

Tester Connection	Condition	Specified Condition
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the No. 1 ignition relay.

**5.INSPECT NO. 2 IGNITION RELAY (IG1 RLY2)**

28371C



Measure the resistance according to the value(s) in the table below.

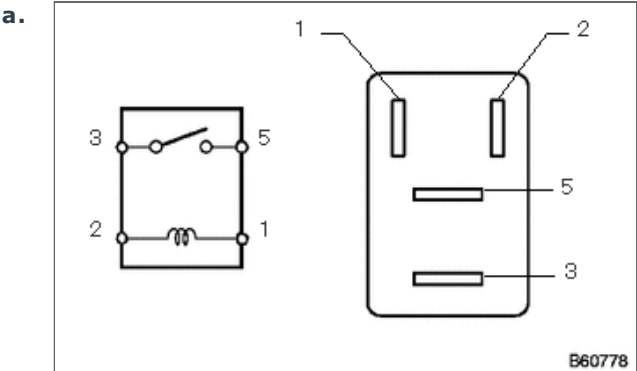
**Standard Resistance:**

Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the No. 2 ignition relay.

**6.INSPECT SUB PUMP RELAY (SUB PMP)**

28380G



Measure the resistance according to the value(s) in the table below.

**Standard Resistance:**

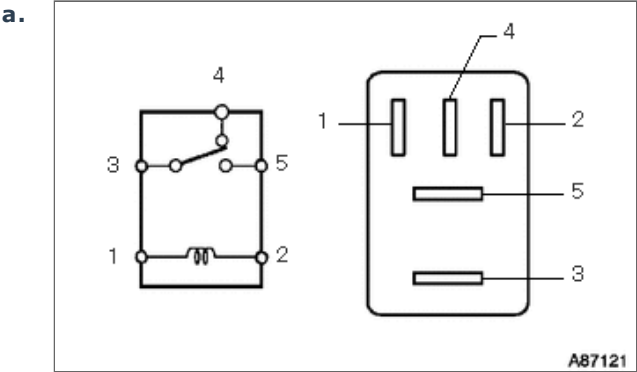
Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher

Tester Connection	Condition	Specified Condition
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the sub pump relay.

**7.INSPECT PUMP SELECT RELAY (PMP SELECT)**

28380F



Measure the resistance according to the value(s) in the table below.

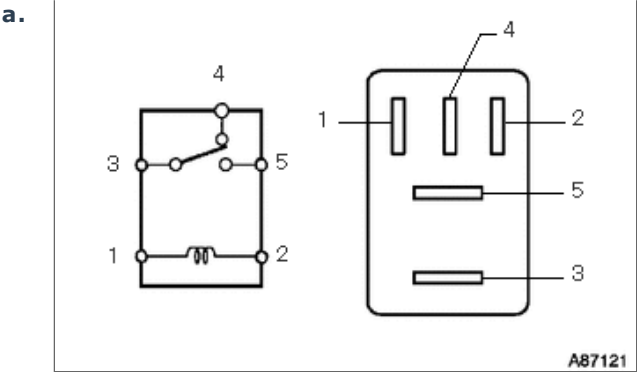
**Standard Resistance:**

Tester Connection	Condition	Specified Condition
3 - 4	Battery voltage is not applied to terminals 1 and 2	Below 1 $\Omega$
	Battery voltage is applied to terminals 1 and 2	10 k $\Omega$ or higher
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the pump select relay.

**8.INSPECT FUEL PUMP RELAY (FUEL PMP)**

28380



Measure the resistance according to the value(s) in the table below.

**Standard Resistance:**

Tester Connection	Condition	Specified Condition
3 - 4	Battery voltage is not applied to terminals 1 and 2	Below 1 $\Omega$
	Battery voltage is applied to terminals 1 and 2	10 k $\Omega$ or higher
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 k $\Omega$ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the fuel pump relay.