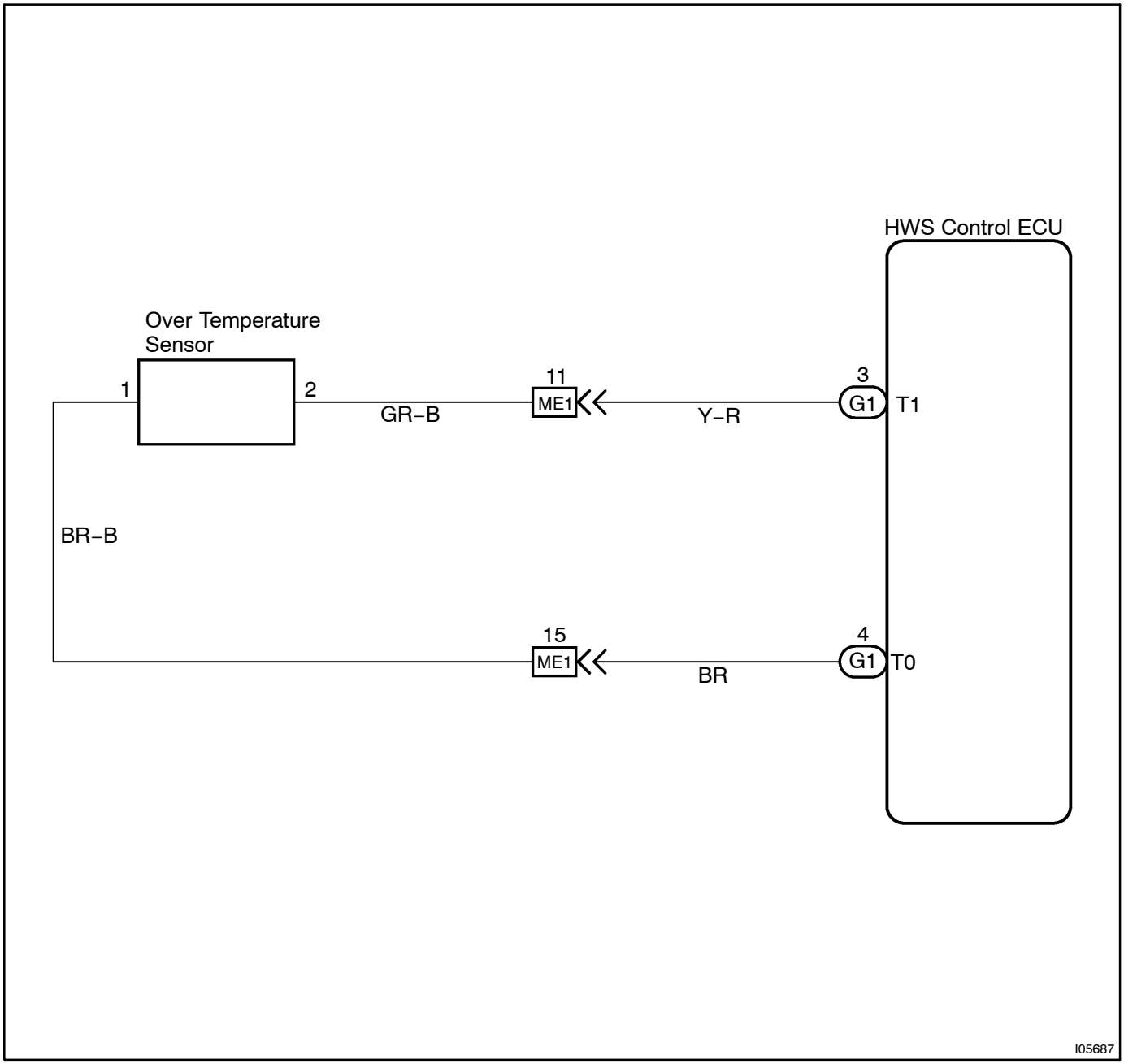
DI2ZH–02

# Over Temperature sensor circuit

## CIRCUIT DESCRIPTION

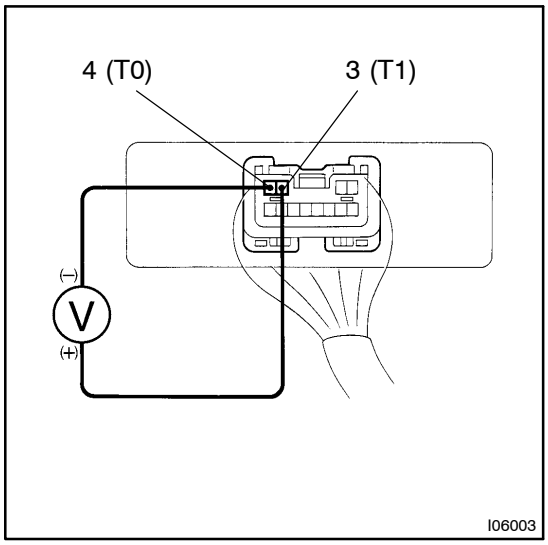
This sensor detects the over temperature and sends the appropriate signals to the HWS control ECU.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | Check voltage between terminals T1 and T0 of HWS control ECU connector. |
|---|---|




**PREPARATION:**

(a) Remove HWS control ECU with connectors still connected.

(b) Turn motor switch ON.

**CHECK:**

Measure voltage between terminals T1 and T0 of HWS control ECU connector at each temperature.

**OK:**

**Voltage:**

| | |
|---|---|
| at 25°C (77°F) | 0.35 – 0.43 V |
| at 40°C (104°F) | 0.20 – 0.24 V |

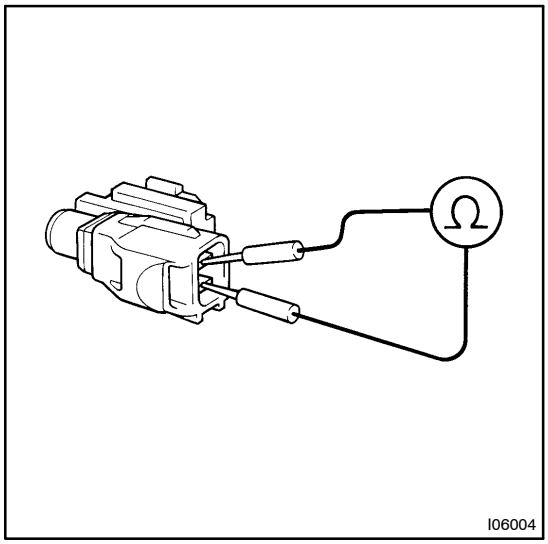
HINT:

As the temperature increases, the voltage decreases.

**OK** → **Proceed to next circuit inspection shown on problem symptoms table (See page DI–464).**

**NG**

| 2 | Check over temperature sensor. |
|---|---|




**PREPARATION:**

(a) Remove engine under cover.

(b) Remove over temperature sensor.

**CHECK:**

Measure resistance between terminals 1 and 2 of over temperature sensor connector at each temperature.

**OK:**

**Resistance:**

| | |
|---|---|
| at 25°C (77°F) | 1.6 – 1.8 Ω |
| at 40°C (104°F) | 0.8 – 1.0 Ω |
| at 50°C (122°F) | 0.5 – 0.7 Ω |

HINT:

As the temperature increases, the resistance decreases.

**NG** → **Replace over temperature sensor.**

**OK**

| | |
|---|---|
| 3 | **Check for open and short in harness and connector between HWS control ECU and over temperature sensor (See page IN–28).** |

**NG** → **Repair or replace harness or connector.**

**OK**

**Check and replace HWS control ECU.**