

<b>DTC</b>	<b>C1533/33 – C1539/39</b>	<b>Power Steering ECU Malfunction</b>
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DTC No.	DTC Detection Condition	Trouble Area
C1533/33	Condition below continues for 10 sec. or more: MH terminal voltage – M+ terminal voltage $\geq$ 10 V	<ul style="list-style-type: none"> <li>• Power steering motor (built in vane pump assembly with motor)</li> <li>• Vane pump assembly with motor</li> </ul>
C1539/39	When the E <sup>2</sup> PROM of the ECU has become abnormal	<ul style="list-style-type: none"> <li>• Vane pump assembly with motor</li> </ul>

Fail safe function:

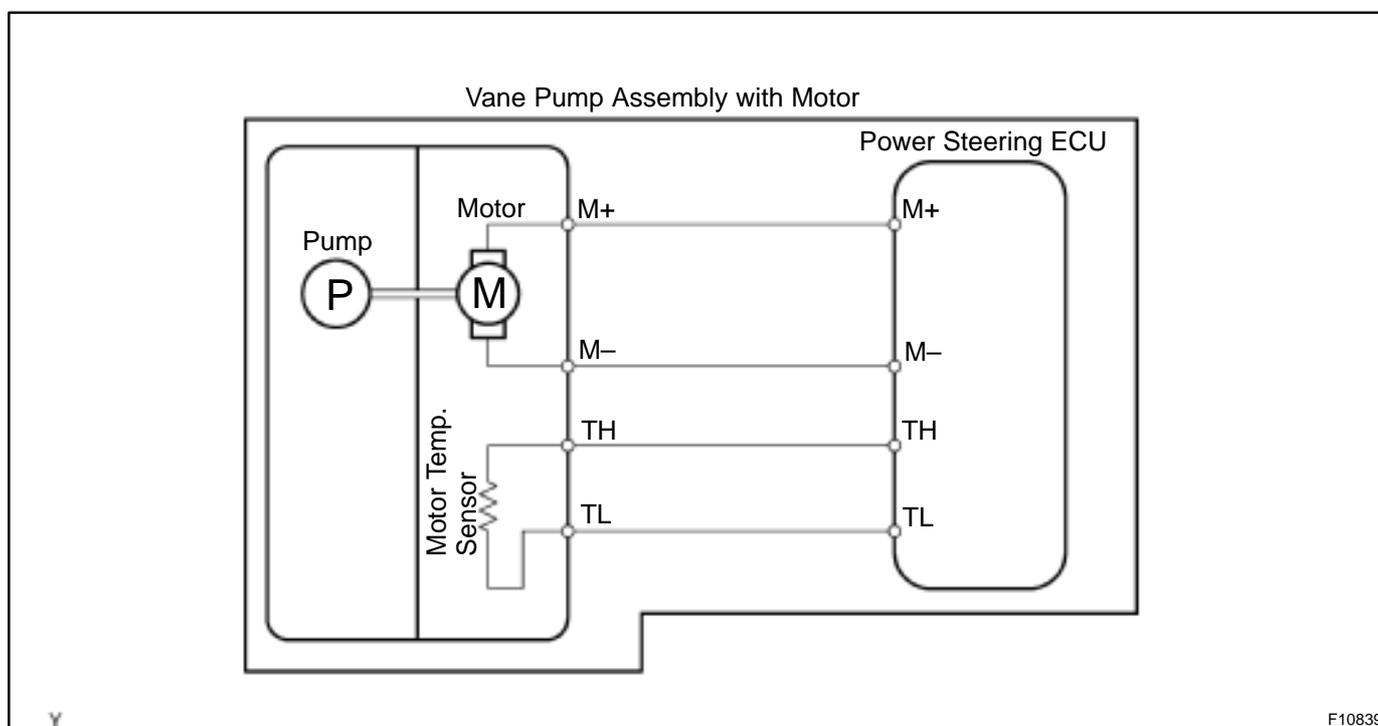
C1533/33:

The vane pump assembly with motor compare the instructed motor voltage and real motor voltage, if those are different, the vane pump assembly with motor prohibits the motor from operating.

C1539/39:

If the ECU detects the malfunction of E<sup>2</sup>PROM, ECU fixes the operating of the EHPS system.

## WIRING DIAGRAM



F10839

### INSPECTION PROCEDURE

<b>1</b>	<b>Check operation of P/S warning light.</b>
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**PREPARATION:**

- (a) Turn the ignition switch OFF.
- (b) Turn the ignition switch ON.

**CHECK:**

After the ignition switch is turned on and P/S warning light turns on for 2 seconds, then it goes off.

**YES** → **No problem.**

**NO**

<b>2</b>	<b>Is DTC output?</b>
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Check DTC on page [DI-202](#).

**YES** → **Repair circuit indicated by code output.**

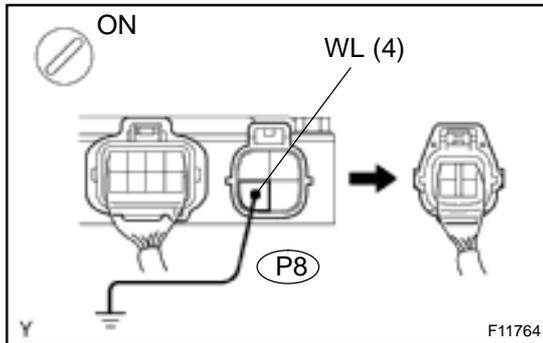
**NO**

<b>3</b>	<b>Is normal code displayed?</b>
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**YES** → **Check and replace vane pump assembly with motor.**

**NO**

#### 4 Check P/S warning light.



#### **PREPARATION:**

- Disconnect the P8 connector from the vane pump assembly with motor.
- Connect terminal WL (P8-4) of the vane pump assembly with motor and body ground.
- Turn the ignition switch ON.

#### **CHECK:**

Check the P/S warning light goes off.

#### **OK:**

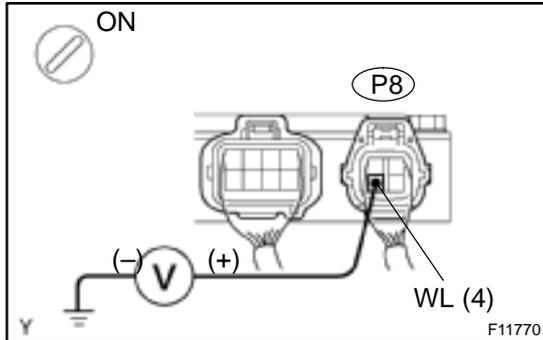
**Voltage: 10 – 14 V**

**NO**

**Check and replace bulb or combination meter assembly.**

**YES**

#### 5 Check voltage between terminal WL (P8-4) of vane pump assembly with motor connector and body ground.



#### **PREPARATION:**

Turn the ignition switch ON.

#### **CHECK:**

Measure the voltage between terminal WL (P8-4) of the vane pump assembly with motor connector and body ground.

#### **OK:**

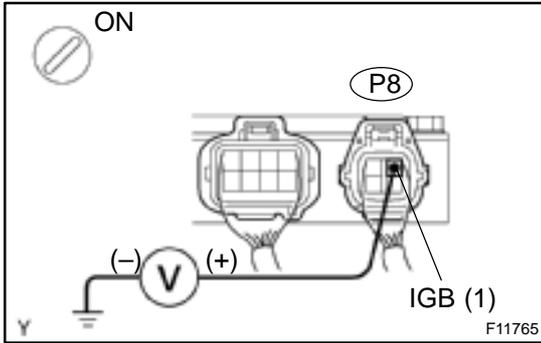
**Voltage: 10 – 14 V**

**NG**

**Check and repair harness or connector.**

**YES**

- 6 Check voltage between terminal IGB (P8-1) of vane pump assembly with motor connector and body ground.**

**CHECK:**

Measure the voltage between terminal IGB (P8-1) of the vane pump assembly with motor connector and body ground.

**OK:**

**Voltage: 10 – 14 V**

**NG**

**Check DTC C1552/52 (See page [DI-218](#)).**

**OK**

**Check and replace vane pump assembly with motor.**