# SECTION STEERING CONTROL SYSTEM

# **CONTENTS**

EPS	
BASIC INSPECTION	2
DIAGNOSIS AND REPAIR WORK FLOW Work Flow	
SYSTEM DESCRIPTION	3
EPS SYSTEM  System Diagram  System Description  Component Parts Location  Component Description	3 3
DTC/CIRCUIT DIAGNOSIS	6
POWER SUPPLY AND GROUND CIRCUIT  Description  Diagnosis Procedure	6
POWER STEERING SOLENOID VALVE  Description	7 7 7
ENGINE SPEED SIGNAL CIRCUIT  Description  Diagnosis Procedure	9

VEHICLE SPEED SIGNAL CIRCUIT        11           Description        11           Diagnosis Procedure        11	F
ECU DIAGNOSIS INFORMATION13	STO
POWER STEERING CONTROL UNIT	Н
SYMPTOM DIAGNOSIS19	I
UNBALANCE STEERING WHEEL TURNING FORCE (TORQUE VARIATION)	J K
PRECAUTION20	
PRECAUTIONS	L
REMOVAL AND INSTALLATION21	
POWER STEERING CONTROL UNIT21 Exploded View21 Removal and Installation21	N O

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Revision: 2013 March STC-1 2014 QX50

< BASIC INSPECTION > [EPS]

# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

#### **DETAILED FLOW**

# 1. COLLECT THE INFORMATION FROM THE CUSTOMER

It is also important to clarify customer complaints before inspection. First of all, reproduce symptoms and understand them fully. Ask customer about his/her complaints carefully. In some cases, it is necessary to check symptoms by driving vehicle with customer.

#### **CAUTION:**

Customers are not professional. It is dangerous to make an easy guess like "maybe the customer means that...," or "maybe the customer mentions this symptom".

>> GO TO 2.

## 2.CHECK THE STATUS

- 1. Power steering fluid leakage and check the power steering fluid level. Refer to ST-10, "Inspection".
- 2. Check the drive belt tension. Refer to EM-19, "Checking".
- 3. Check the power steering gear for damages, cracks and fluid leakage. Refer to <u>ST-33, "2WD : Inspection"</u> (2WD models), <u>ST-43, "AWD : Inspection"</u> (AWD models).
- 4. Check the relief oil pressure. Refer to ST-49, "Inspection".

>> GO TO 3.

# ${f 3.}$ DIAGNOSIS CHART BY SYMPTOM

Perform the diagnosis by symptom. Refer to STC-19. "Diagnosis Procedure".

>> GO TO 4.

## 4. FINAL CHECK

Check the input/output standard values for the power steering control unit.

Are the power steering control unit input/output values within standard ranges respectively?

YES >> INSPECTION END

NO >> GO TO 2.

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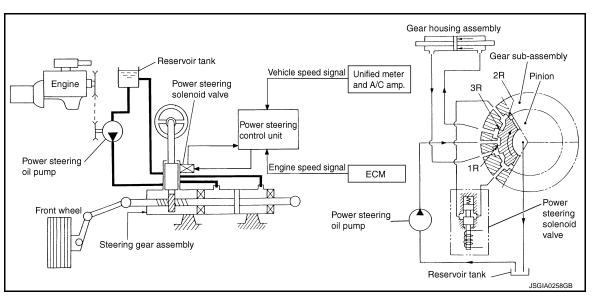
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# SYSTEM DESCRIPTION

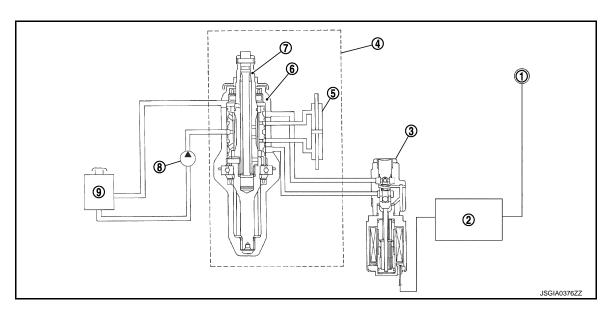
# **EPS SYSTEM**

System Diagram

**CONTROL DIAGRAM** 



#### **CROSS-SECTIONAL VIEW**



- Unified meter and A/C amp.
- 4. Steering gear assembly
- 7. Pinion

- 2. Power steering control unit
- 5. Gear housing assembly
- 8. Power steering oil pump
- 3. Power steering solenoid valve
- 6. Gear sub-assembly
- 9. Reservoir tank

# System Description

• The EPS system controls the power steering solenoid valve through the power steering control unit.

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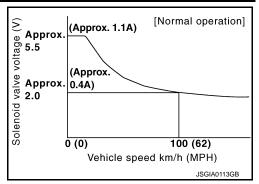
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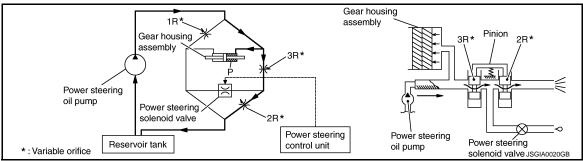
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• The valve driving voltage to control the power steering solenoid valve varies according to the vehicle speed.



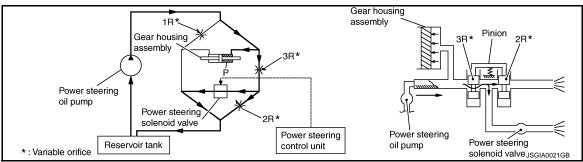
#### **OPERATION PRINCIPLE**

During Parking (When Turning The Steering Wheel To The Right.)



- 1. Power steering solenoid valve is closed while a vehicle is stopped.
- 2. Pinion "1R", "2R" and "3R" are closed depending on steering torque of steering wheel.
- 3. Oil pressure "P" in the gear housing assembly is the sum of oil pressures occurred in "2R" and "3R". This results in a light steering force because of high pressure.

**During High-speed Operation** 



- Power steering solenoid valve is opened during high-speed operation.
- 2. Pinion "1R", "2R" and "3R" are closed depending on steering torque of steering wheel.
- 3. Oil pressure "2R" does not occur because the power steering solenoid valve is on full throttle.
- 4. Oil pressure "P" in the gear housing assembly includes only oil pressure occurred in "3R" and results in a heavy steering force.

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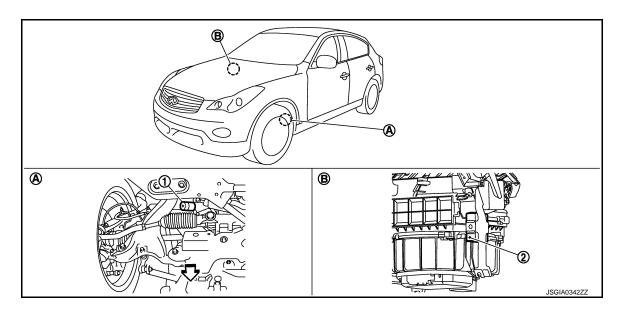
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# **Component Parts Location**

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- Power steering solenoid valve
- Steering gear assembly
- 2. Power steering control unit
- В. Glove box assembly removed

 $\triangleleft$ : Vehicle front

# **Component Description**

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Component parts	Reference/Function
Power steering control unit	<ul> <li>Signals from various sensors control the driving voltage to the power steering solenoid valve.</li> <li>The power steering control unit controls the driving voltage to the power steering solenoid valve for maintaining the power steering assist force when the fail-safe function is activated. (The engine speed signals control EPS system if any vehicle speed signal error is detected.)</li> </ul>
Unified meter and A/C amp.	STC-11, "Description"
ECM	STC-9, "Description"
Power steering solenoid valve	STC-7, "Description"

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# DTC/CIRCUIT DIAGNOSIS

## POWER SUPPLY AND GROUND CIRCUIT

Power supply to EPS system

Diagnosis Procedure

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## 1. CHECK POWER SUPPLY

- 1. Turn the ignition switch OFF.
- 2. Disconnect power steering control unit harness connector.
- 3. Check voltage between power steering control unit harness connector and ground.

Power steering	ring control unit   Voltage (Approx.)		
Connector	Terminal	_	voltage (Approx.)
M108	3	Ground	0 V

4. Turn the ignition switch ON.

#### **CAUTION:**

#### Never start the engine.

5. Check voltage between power steering control unit harness connector and ground.

Power steeri	Power steering control unit		Voltage
Connector	Terminal		voltage
M108	3	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO

- >> Check the following. If any items are damaged, repair or replace damaged parts.
  - 10A fuses (#45) open
  - Harness for short or open between ignition switch and power steering control unit harness connector No. 3 terminal.
  - Ignition switch. Refer to PCS-123, "Removal and Installation".

## 2.CHECK GROUND CIRCUIT

- Turn the ignition switch OFF.
- 2. Check continuity between power steering control unit harness connector and ground.

Power steering control unit			Continuity
Connector	Terminal		Continuity
M108	6	Ground	Existed

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair open circuit or short to power in harness or connectors.

# 3.CHECK TERMINALS AND HARNESS CONNECTORS

Check power steering control unit pin terminals for damage or loose connection with harness connector.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace damaged parts.

#### **POWER STEERING SOLENOID VALVE**

< DTC/CIRCUIT DIAGNOSIS >

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## POWER STEERING SOLENOID VALVE

Power steering solenoid valve controls the power steering oil pressure in the gear housing assembly.

## Component Function Check

# 1. CHECK POWER STEERING SOLENOID VALVE OPERATION

Check changes in steering force from a halt condition to high-speed driving.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Check the power steering solenoid valve. Refer to <a href="STC-7">STC-7</a>, "Diagnosis Procedure".

# Diagnosis Procedure

# 1. CHECK POWER STEERING SOLENOID VALVE SIGNAL

- 1. Turn the ignition switch OFF.
- 2. Check voltage between power steering control unit harness connector and ground.

Power steeri	Power steering control unit		Condition	Voltage (Approx.)	
Connector	Terminal	_	Condition	Voltage (Approx.)	
M108	1	Ground	Vehicle speed: 0 km/h (0 MPH) (Engine is running)	4.4 – 6.6 V	
			Vehicle speed: 100 km/h (62 MPH)	2.4 – 3.6 V	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

# 2.CHECK HARNESS BETWEEN POWER STEERING SOLENOID VALVE AND POWER STEERING CONTROL UNIT

- 1. Turn the ignition switch OFF.
- Disconnect power steering solenoid valve harness connector.
- 3. Disconnect power steering control unit harness connector.
- 4. Check the continuity between power steering solenoid valve harness connector and the power steering control unit harness connector.

Power steerin	g solenoid valve	Power steering control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
F45	1	M108	1	Existed
143	2	IVITOS	5	Existed

Check continuity between power steering control unit harness connector and ground.

Power steeri	ng control unit		Continuity
Connector	Terminal		Continuity
M108	1	Ground	Not existed
IVITUO	5	Ground	Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

# 3.check power steering solenoid valve

Check power steering solenoid valve. Refer to STC-8, "Component Inspection".

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#### **POWER STEERING SOLENOID VALVE**

#### < DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace gear-sub assembly. Refer to <u>ST-25, "2WD : Exploded View"</u> (2WD models), <u>ST-34, "AWD : Exploded View"</u> (AWD models).

## 4. CHECK TERMINALS AND HARNESS CONNECTORS

- Check power steering control unit pin terminals for damage or loose connection with harness connector.
- Check power steering solenoid valve pin terminals for damage or loose connection with harness connector.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace damaged parts.

## Component Inspection

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# 1. CHECK POWER STEERING SOLENOID VALVE

- 1. Turn the ignition switch OFF.
- 2. Disconnect power steering solenoid valve harness connector.
- 3. Check resistance between power steering solenoid valve connector terminals.

Power steering solenoid valve		Resistance (Approx.)
Terminal		resistance (Approx.)
1 2		4 – 6 Ω

Check power steering solenoid valve by listening for its operation sound while applying battery voltage to power steering solenoid valve connector F45 terminals 1 (positive) and 2 (negative).

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace gear-sub assembly. Refer to <u>ST-25, "2WD : Exploded View"</u> (2WD models), <u>ST-34, "AWD : Exploded View"</u> (AWD models).

#### **ENGINE SPEED SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

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# **ENGINE SPEED SIGNAL CIRCUIT**

ECM sends engine speed signal to power steering control unit.

Diagnosis Procedure

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# 1.PERFORM ECM SELF-DIAGNOSIS

## (P)With CONSULT

1. Turn the ignition switch ON.

Perform "ENGINE" self-diagnosis. Refer to EC-146, "CONSULT Function".

#### Is any DTC detected?

YES >> Check the DTC.

NO >> GO TO 2.

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# 2.CHECK HARNESS BETWEEN ECM AND POWER STEERING CONTROL UNIT

1. Turn the ignition switch OFF.

- 2. Disconnect ECM harness connectors.
- 3. Disconnect power steering control unit harness connector.
- 4. Check continuity between ECM harness connector and power steering control unit harness connector.

ECM		Power steering control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M107	110	M108	10	Existed

5. Check continuity between power steering control unit harness connector and ground.

Power steeri	Power steering control unit		Continuity
Connector	Terminal		Continuity
M108	10	Ground	Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

# 3.CHECK ENGINE SPEED SIGNAL (1)

- Connect ECM harness connectors.
- Check signal between ECM harness connector and ground with oscilloscope.

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E	СМ		Condition	Voltage (Approx.)
Connector	Terminal		Condition	Voltage (Approx.)
M107	110	Ground	Engine is running  • Warm-up condition  • Idle speed	10mSec/div
Wiley		Cround	Engine is running  • Warm-up condition  • Engine speed: Approx. 2,000 rpm	10mSec/div 2V/div JMBIA0077GB

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ECM. Refer to <u>EC-17</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (ECM): Description".

# 4. CHECK ENGINE SPEED SIGNAL (2)

- Turn the ignition switch OFF.
- 2. Connect power steering control unit harness connector.
- 3. Check signal between power steering control unit harness connector and ground with oscilloscope.

Power steering	ng control unit		Condition	Voltage (Approx.)
Connector	Terminal	_	Condition	Voltage (Approx.)
M108	10	Ground	Engine is running  • Warm-up condition  • Idle speed	10mSec/div
1.11100	·	Cround	Engine is running  • Warm-up condition  • Engine speed: Approx. 2,000 rpm	10mSec/div 2V/div JMBIA0077GB

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power steering control unit. Refer to <a href="STC-21">STC-21</a>. "Exploded View".

# 5. CHECK TERMINALS AND HARNESS CONNECTORS

- Check power steering control unit pin terminals for damage or loose connection with harness connector.
- Check ECM pin terminals for damage or loose connection with harness connector.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace damaged parts.

#### VEHICLE SPEED SIGNAL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

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## VEHICLE SPEED SIGNAL CIRCUIT

Unified meter and A/C amp. sends vehicle speed signal to power steering control unit.

Diagnosis Procedure

1.PERFORM UNIFIED METER AND A/C AMP. SELF-DIAGNOSIS

## (P)With CONSULT

- 1. Turn the ignition switch ON.
- Perform "METER/M&A" self-diagnosis. Refer to <u>MWI-42, "CONSULT Function (METER/M&A)"</u>.

#### Is any DTC detected?

YES >> Check the DTC.

NO >> GO TO 2.

 $2.\mathsf{CHECK}$  HARNESS BETWEEN UNIFIED METER AND A/C AMP. AND POWER STEERING CONTROL UNIT

Turn the ignition switch OFF.

- 2. Disconnect unified meter and A/C amp. harness connector.
- 3. Disconnect power steering control unit harness connector.
- 4. Check continuity between unified meter and A/C amp. harness connector and power steering control unit harness connector.

Unified meter	and A/C amp.	Power steeri	ng control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	8	M108	8	Existed

5. Check continuity between power steering control unit harness connector and ground.

Power steeri	ng control unit		Continuity
Connector	Terminal		Continuity
M108	8	Ground	Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

# 3.CHECK VEHICLE SPEED SIGNAL (1)

- 1. Connect unified meter and A/C amp. harness connector.
- Check unified meter and A/C amp. input/output standard values. Refer to MWI-90. "Reference Value".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace unified meter and A/C amp. Refer to MWI-137, "Exploded View".

# 4. CHECK VEHICLE SPEED SIGNAL (2)

- 1. Turn the ignition switch OFF.
- Connect power steering control unit harness connector.
- 3. Check signal between power steering control unit harness connector and ground with oscilloscope.

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Power steering	ng control unit	_	Condition	Voltage (Approx.)
Connector	Terminal		Condition	voltage (Approx.)
M108	8	Ground	Vehicle speed: 40 km/h (25 MPH) CAUTION: Check air pressure of tire under standard condition.	NOTE: The maximum voltage varies depending on the specification (destination unit).

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power steering control unit. Refer to STC-21, "Exploded View".

# 5. CHECK TERMINALS AND HARNESS CONNECTORS

- Check power steering control unit pin terminals for damage or loose connection with harness connector.
- Check unified meter and A/C amp. pin terminals for damage or loose connection with harness connector.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace damaged parts.

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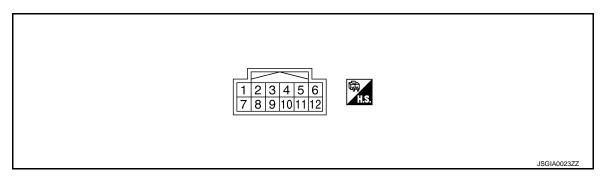
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# **ECU DIAGNOSIS INFORMATION**

# POWER STEERING CONTROL UNIT

Reference Value INFOID:0000000009061377 В

**TERMINAL LAYOUT** 



#### PHYSICAL VALUES

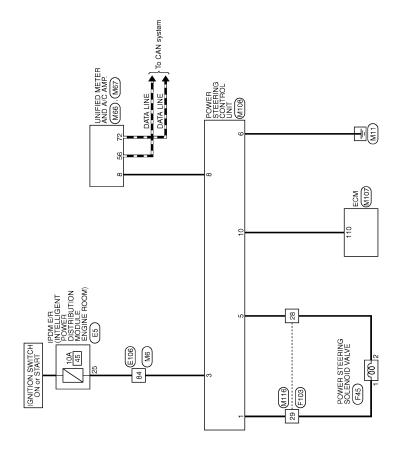
	inal No. e color)	Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output	Condition	value (Approx.)
1	Ground	Power steering solenoid valve voltage	Output	Vehicle speed: 0 km/h (0 MPH) (Engine is running)	4.4 – 6.6 V
(LG)		valve voltage		Vehicle speed: 100 km/h (62 MPH)	2.4 – 3.6 V
3	Ground	Ignition switch power	Input	Ignition switch: ON	Battery voltage
(G)	Giodila	supply	Input	Ignition switch: OFF	0 V
5 (B)	Ground	Power steering solenoid valve ground	_	Always	0 V
6 (B)	Ground	Ground	_	Always	0 V
8 (L)	Ground	Vehicle speed signal	Input	Vehicle speed: 40 km/h (25 MPH) CAUTION: Check air pressure of tire under standard condition.	0 JSNIA0015GB
10 (B)	Ground	Engine speed signal	Input	Engine is running  • Warm-up condition  • Idle speed	10mSec/div
(R)				Engine is running  • Warm-up condition  • Engine speed: Approx. 2,000 rpm	10mSec/div

#### CALITION

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to forcibly extend any connector terminals.

Wiring Diagram - ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM -

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ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM

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Charletty Name   Charletty   Countrolletty   Countrolletty   Charletty   Cha	Connector No. F45 Connector Name POWER STEERING SOLENOID VALVE	Connector Type RS02FBR-DGY				<u></u>	(112))				T	<u> </u>		_	2 B EPS SOL-		0075	COLLECTO NO. P. 103	Connector Name   WIRE TO WIRE		Connector Type TK36FW-NS10									<u>a</u>	Wire	+	M a	- u	+	- 0	+	28 0	18 O - [wim icc]	+	28 B	_	31 R -	33 GR	34 B	╀		+	3/ 1
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	Connector No. M67	Commoder Name   INITIES METER AND A.C. AMB	.	Connector Type TH32FW-NH					42 43 44 45 46 47 53 54 55	57 58 59 60 61 62 63 65 65 70 71 72			nal	No. Wire Signal Marie Specification	^	42 Y FUEL LEVEL SENSOR SIGNAL	43 R INTAKE SENSOR SIGNAL	1 97	45 P AMBIENT SENSOR SIGNAL	46 BG SUNLOAD SENSOR SIGNAL	47 G ENAJST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL	53 G IGNITION POWER SUPPLY	Y BATTER	55 B GROUND	56 L CAN-H	57 W BRAKE FLUID LEVEL SWITCH SIGNAL	BR	59 GR INTAKE SENSOR GROUND	60 L IN-VEHICLE SENSOR GROUND	61 BR AMBIENT SENSOR GROUND	62 SB SUNLOAD SENSOR GROUND	œ	65 BG ECV SIGNAL	_	R EACH DOOR N	) B	72 P CAN-L													
		-				•							M66	ONE OF CHEST AND ALCOHOL		TH40FW-NH					5	23 25 27 28 39 34 38				Signal Name [Specification]	MANUAL MODE SHIFT UP SIGNAL	COMMUNICATION SIGNAL (AMPMETER)	VEHICLE SPEED SIGNAL (2-PULSE)	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	MANUAL MODE SIGNAL	NON-MANUAL MODE SIGNAL	COMMUNICATION SIGNAL (LCD-AMP.)	ION ON/OFF SIGNAL	AT SNOW SWITCH SIGNAL	MANUAL MODE SHIFT DOWN SIGNAL	COMMUNICATION SIGNAL (METER-AMP.)	VEHICLE SPEED SIGNAL (8-PULSE)	PARKING BRAKE SWITCH SIGNAL	COMMUNICATION SIGNAL (AMPLCD)	BLOWER MOTOR CONTROL SIGNAL									
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ONTROLLED POWER STEERING SYSTEM										-			-		-															- [With ICC]	- [Without ICC]		- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [With ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]								1		
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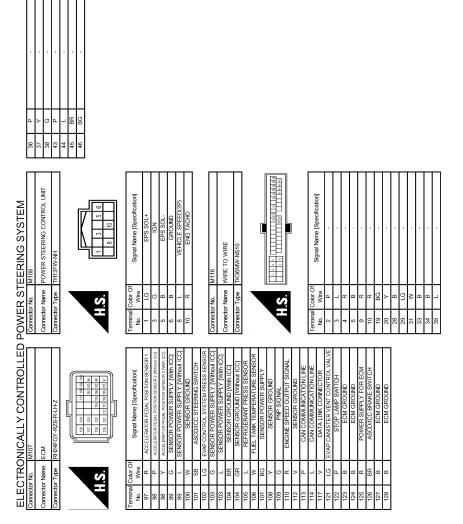
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Fail-Safe

EPS system



#### **POWER STEERING CONTROL UNIT**

#### < ECU DIAGNOSIS INFORMATION >

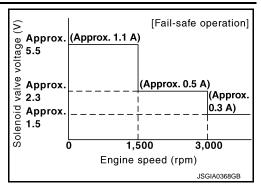
[EPS]

• EPS system enters the fail-safe mode (that allows the steering force to be controlled without impairing the drivability) if any of the input/output values to/from EPS system (power steering control unit) deviate from the standard range.

#### NOTE:

The system enters the fail-safe mode if the engine speed remains at 1,500 rpm or more for over 10 seconds while the vehicle is stopped. This is normal.

 The fail-safe function is canceled when a vehicle speed signal of 2 km/h (1.2 MPH) or more is inputted or the ignition switch is turned OFF→ON. EPS system restores the normal operation at that time.



Mode	Warn- ing lamp	DTC	Detection point (malfunction part)	Error area and root cause
Fail-safe function	_	_	Vehicle speed signal input	<ul> <li>Engine speed is 1,500 rpm or more and there is no vehicle speed signal input for over 10 seconds during vehicle travel.</li> <li>Vehicle speed signal has abruptly dropped from 30 km/h (19 MPH) or more to 2 km/h (1.2 MPH) or less within 1.4 seconds.</li> </ul>

# **UNBALANCE STEERING WHEEL TURNING FORCE (TORQUE VARIATION)**

[EPS] < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# UNBALANCE STEERING WHEEL TURNING FORCE (TORQUE VARIA-TION)

Description INFOID:0000000009061380

- Hard steering when fully turning the steering wheel.
- Light steering when driving at a high speed.

## Diagnosis Procedure

# 1. CHECK SYSTEM FOR POWER SUPPLY AND GROUND

Perform trouble diagnosis for power supply and ground. Refer to STC-6, "Diagnosis Procedure".

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

## 2.CHECK SYSTEM FOR VEHICLE SPEED SIGNAL

Perform trouble diagnosis for vehicle speed signal. Refer to STC-11, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

# 3.CHECK SYSTEM FOR ENGINE SPEED SIGNAL

Perform trouble diagnosis for engine speed signal. Refer to <u>STC-9</u>, "<u>Diagnosis Procedure</u>".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

## 4.CHECK SYSTEM FOR POWER STEERING SOLENOID VALVE

Perform trouble diagnosis for power steering solenoid valve. Refer to STC-7, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Perform the symptom diagnosis for the steering system. Refer to ST-3, "NVH Troubleshooting Chart".

>> Repair or replace damaged parts. NO

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#### **PRECAUTIONS**

< PRECAUTION > [EPS]

# **PRECAUTION**

#### **PRECAUTIONS**

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
  a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
  serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

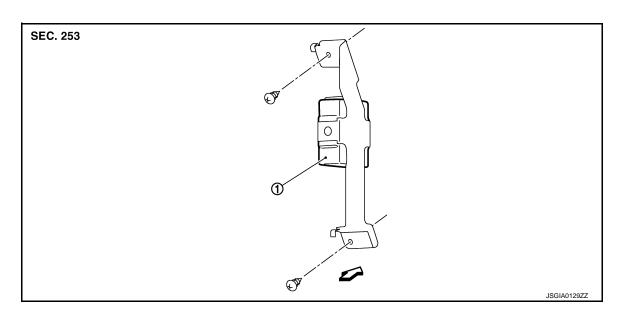
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# **REMOVAL AND INSTALLATION**

# POWER STEERING CONTROL UNIT

Exploded View



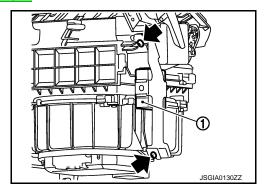
1. Power steering control unit

∀
 : Vehicle front

#### Removal and Installation

#### **REMOVAL**

- 1. Remove instrument lower cover. Refer to <a href="IP-12">IP-12</a>, "Exploded View".
- 2. Remove glove box assembly. Refer to IP-12, "Exploded View".
- 3. Remove instrument lower panel RH. Refer to IP-12, "Exploded View".
- 4. Remove power steering control unit screws.
- 5. Remove power steering control unit (1).
- 6. Disconnect power steering control unit connector.



#### **INSTALLATION**

Install in the reverse order of removal.

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