

SECTION

STC

STEERING CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000003893521

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. Check the power steering fluid leakage and power steering fluid level. Refer to [ST-7, "Inspection"](#).
2. Check the drive belt tension. Refer to [EM-12, "Checking"](#).
3. Check the power steering gear for damages, cracks and fluid leakage. Refer to [ST-26, "Inspection"](#).
4. Check the relief oil pressure. Refer to [ST-32, "Inspection"](#).

>> GO TO 3.

3.DIAGNOSIS CHART BY SYMPTOM

Perform the diagnosis by symptom. Refer to [STC-17, "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.

EPS SYSTEM

< FUNCTION DIAGNOSIS >

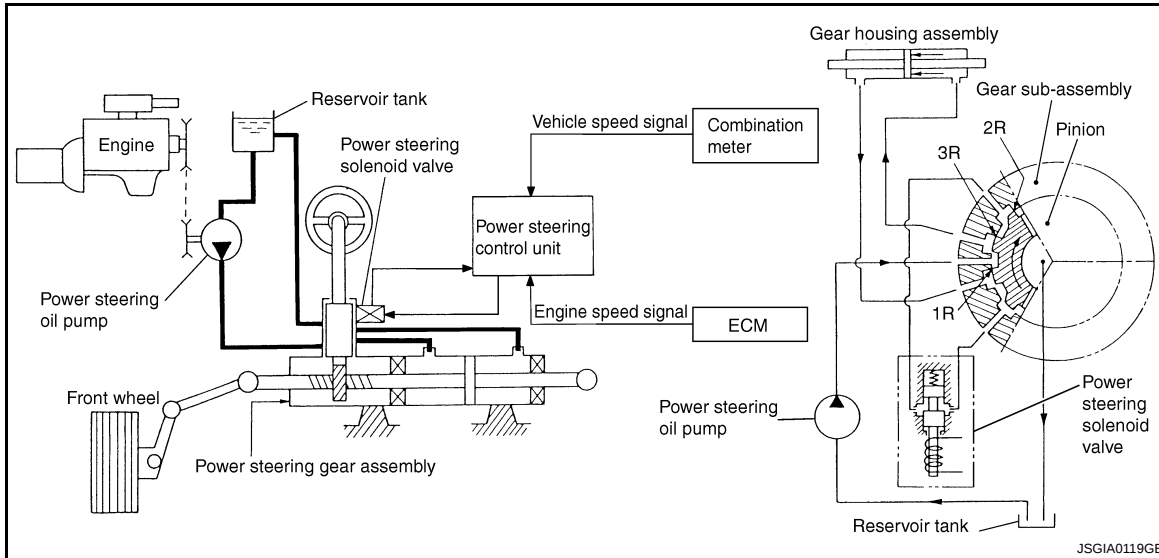
FUNCTION DIAGNOSIS

EPS SYSTEM

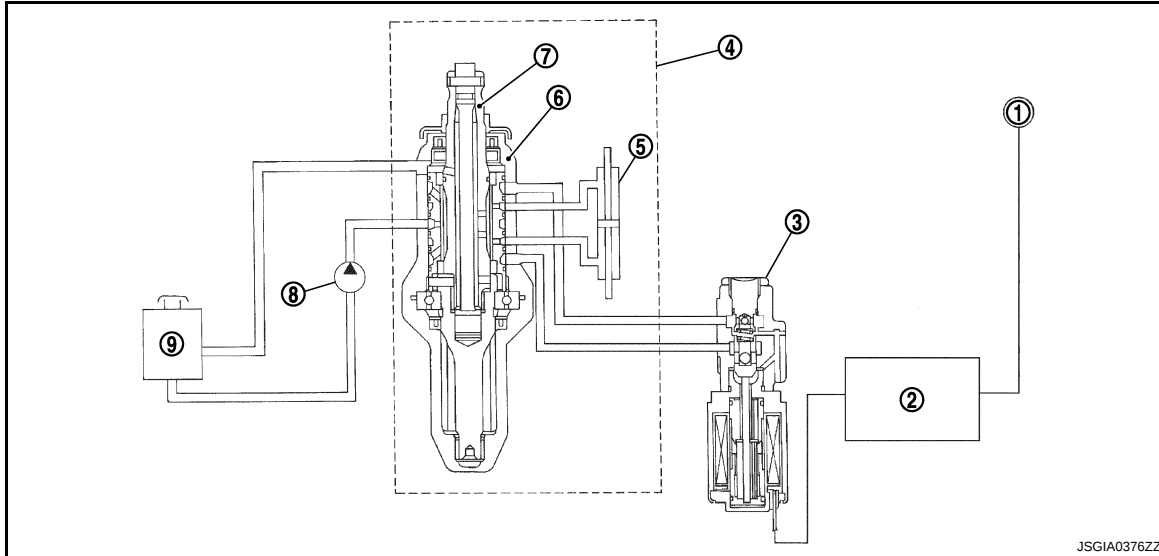
System Diagram

INFOID:000000003893522

CONTROL DIAGRAM



CROSS-SECTIONAL VIEW



- | | | |
|---------------------------|--------------------------------|----------------------------------|
| 1. Combination meter | 2. Power steering control unit | 3. Power steering solenoid valve |
| 4. Steering gear assembly | 5. Gear housing assembly | 6. Gear sub-assembly |
| 7. Pinion | 8. Power steering oil pump | 9. Reservoir tank |

System Description

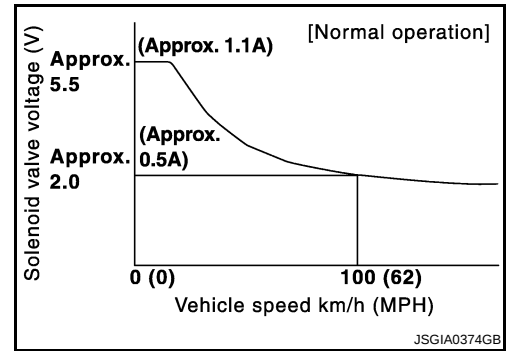
INFOID:000000003893523

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

EPS SYSTEM

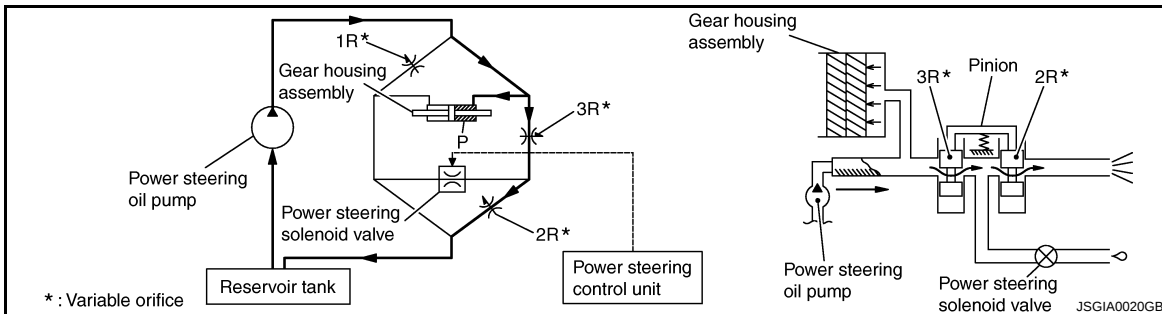
< FUNCTION DIAGNOSIS >

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



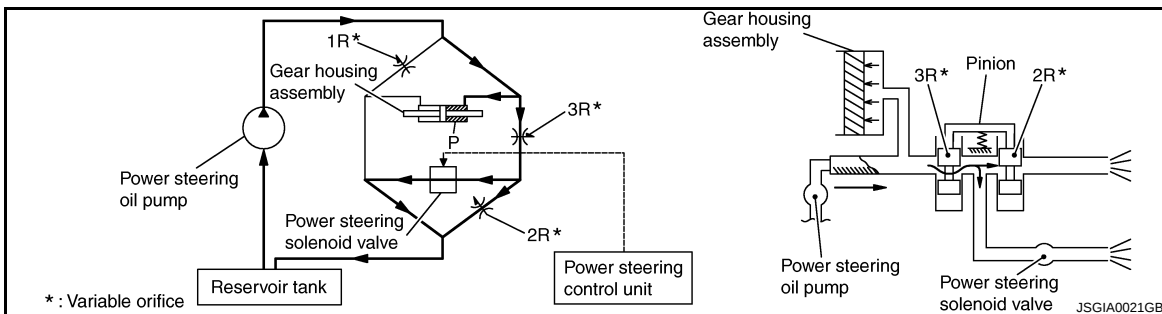
OPERATION PRINCIPLE

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



- Power steering solenoid valve is closed while a vehicle is stopped.
- Pinion "1R", "2R" and "3R" are closed depending on steering torque of steering wheel.
- 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



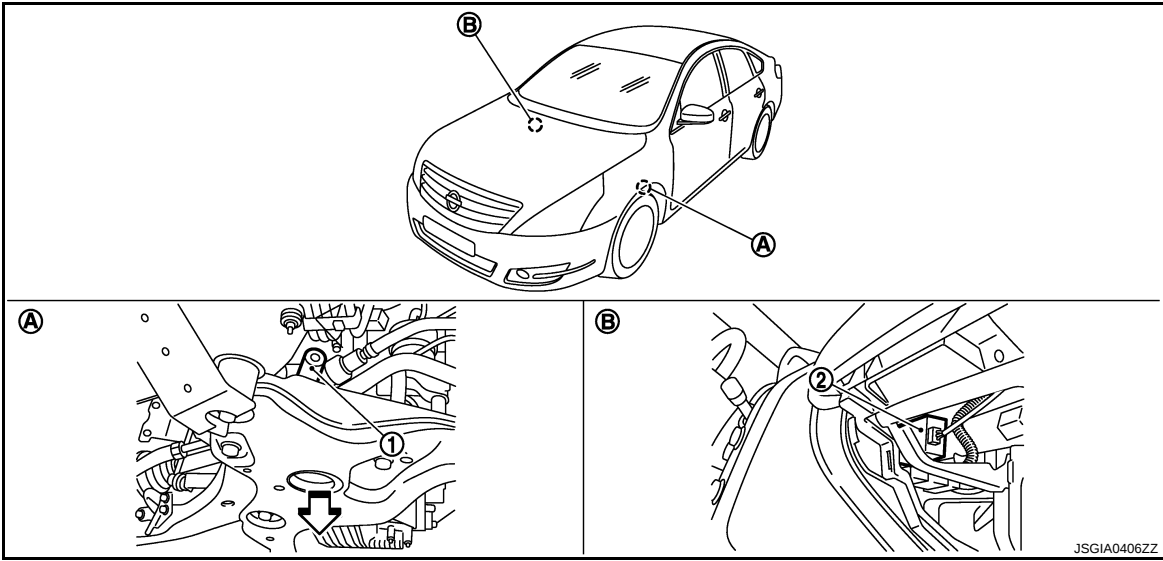
- Power steering solenoid valve is opened during high-speed operation.
- Pinion "1R", "2R" and "3R" are closed depending on steering torque of steering wheel.
- Oil pressure "2R" does not occur because the power steering solenoid valve is on full throttle.
- Oil pressure "P" in the gear housing assembly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

EPS SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003893524



1.

Power steering solenoid valve
2.

Power steering control unit
- A.

Steering gear assembly
- B.

Glove box assembly removed

↶: Vehicle front

Component Description

INFOID:000000003893525

Component parts	Reference/Function
Power steering control unit	• Signals from various sensors control the driving voltage to the power steering solenoid valve. • 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.)
Combination meter	STC-11. "Description"
ECM	STC-9. "Description"
Power steering solenoid valve	STC-7. "Description"

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Description

INFOID:000000003893526

Power supply to EPS system

Diagnosis Procedure

INFOID:000000003893527

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 control unit		—	Voltage
Connector	Terminal		
M61	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 steering control unit		—	Voltage
Connector	Terminal		
M61	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 (#3) open
- Harness for short or open between ignition switch and power steering control unit harness connector No. 3 terminal.
- Ignition switch. Refer to [PCS-64, "Component Inspection"](#).

2.CHECK GROUND CIRCUIT

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

Power steering control unit		—	Continuity
Connector	Terminal		
M61	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

< COMPONENT DIAGNOSIS >

POWER STEERING SOLENOID VALVE

Description

INFOID:000000003893528

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

Diagnosis Procedure

INFOID:000000003893529

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 steering control unit		—	Condition	Voltage (Approx.)
Connector	Terminal			
M61	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 2.

NO >> GO TO 4.

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

1. Turn the ignition switch OFF.
2. 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 steering solenoid valve		Power steering control unit		Continuity
Connector	Terminal	Connector	Terminal	
E52	1	M61	1	Existed
E52	2	M61	5	Existed

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

Power steering control unit		—	Continuity
Connector	Terminal		
M61	1	Ground	Not existed
M61	5		

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"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace gear-sub assembly. Refer to [ST-18, "Exploded View"](#).

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?

POWER STEERING SOLENOID VALVE

< COMPONENT DIAGNOSIS >

YES >> INSPECTION END
NO >> Repair or replace damaged parts.

Component Inspection

INFOID:000000003893530

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.)
Connector	Terminal		
E52	1	2	4 – 6 Ω

4. Check power steering solenoid valve by listening for its operation sound while applying battery voltage to power steering solenoid valve connector E52 terminals 1 (positive) and 2 (negative).

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace gear-sub assembly. Refer to [ST-18, "Exploded View"](#).

ENGINE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

ENGINE SPEED SIGNAL CIRCUIT

Description

INFOID:000000003893531

ECM sends engine speed signal to power steering control unit.

Diagnosis Procedure

INFOID:000000003893532

1.PERFORM ECM SELF-DIAGNOSIS

With CONSULT-III

1. Turn the ignition switch ON.

Perform ECM self-diagnosis. Refer to [EC-113, "CONSULT-III Function"](#).

Is any DTC detected?

YES >> Check the DTC.

NO >> GO TO 2.

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	
E16	94	M61	10	Existed

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

Power steering control unit		—	Continuity
Connector	Terminal		
M61	10	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

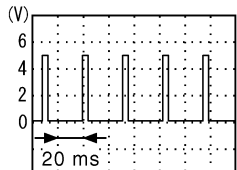
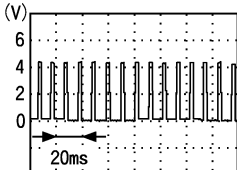
3.CHECK ENGINE SPEED SIGNAL (1)

1. Connect ECM harness connectors.

2. Check signal between ECM harness connector and ground with oscilloscope.

ENGINE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

ECM		—	Condition	Voltage (Approx.)
Connector	Terminal			
E16	94	Ground	Engine is running • Warm-up condition • Idle speed	 JSGIA0143ZZ
			Engine is running • Warm-up condition • Engine speed: Approx. 2,000 rpm	 PBIA3655J

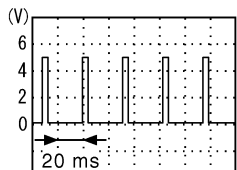
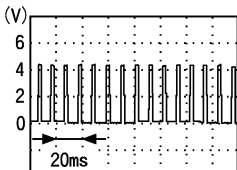
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ECM. Refer to [EC-14, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

4.CHECK ENGINE SPEED SIGNAL (2)

1. Connect power steering control unit harness connector.
2. Check signal between power steering control unit harness connector and ground with oscilloscope.

Power steering control unit		—	Condition	Voltage (Approx.)
Connector	Terminal			
M61	10	Ground	Engine is running • Warm-up condition • Idle speed	 JSGIA0143ZZ
			Engine is running • Warm-up condition • Engine speed: Approx. 2,000 rpm	 PBIA3655J

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power steering control unit. Refer to [STC-19, "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

< COMPONENT DIAGNOSIS >

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000003893533

Combination meter sends vehicle speed signal to power steering control unit.

Diagnosis Procedure

INFOID:000000003893534

1.PERFORM COMBINATION METER SELF-DIAGNOSIS

With CONSULT-III

1. Turn the ignition switch ON.
2. Perform combination meter self-diagnosis. Refer to [MWI-33, "CONSULT-III Function \(METER/M&A\)"](#).

Is any DTC detected?

- YES >> Check the DTC.
NO >> GO TO 2.

2.CHECK HARNESS BETWEEN COMBINATION METER AND POWER STEERING CONTROL UNIT

1. Turn the ignition switch OFF.
2. Disconnect combination meter harness connector.
3. Disconnect power steering control unit harness connector.
4. Check continuity between combination meter harness connector and power steering control unit harness connector.

Combination meter		Power steering control unit		Continuity
Connector	Terminal	Connector	Terminal	
M34	30	M61	8	Existed

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

Power steering control unit		—	Continuity
Connector	Terminal		
M61	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 combination meter harness connector.
2. Check combination meter input/output standard values. Refer to [MWI-53, "Reference Value"](#).

Is the inspection result normal?

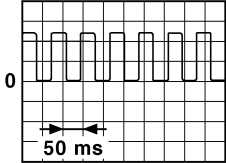
- YES >> GO TO 4.
NO >> Replace combination meter Refer to [MWI-126, "Exploded View"](#).

4.CHECK VEHICLE SPEED SIGNAL (2)

1. Connect power steering control unit harness connector.
2. Check signal between power steering control unit harness connector and ground with oscilloscope.

VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

Power steering control unit		—	Condition	Voltage (Approx.)
Connector	Terminal			
M61	8	Ground	Vehicle speed: 40 km/h (25 MPH) CAUTION: Check air pressure of tire under standard condition.	 JSNIA0015GB

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power steering control unit. Refer to [STC-19, "Exploded View"](#).

5.CHECK TERMINALS AND HARNESS CONNECTORS

- Check power steering control unit pin terminals for damage or loose connection with harness connector.
- Check combination meter 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 CONTROL UNIT

< ECU DIAGNOSIS >

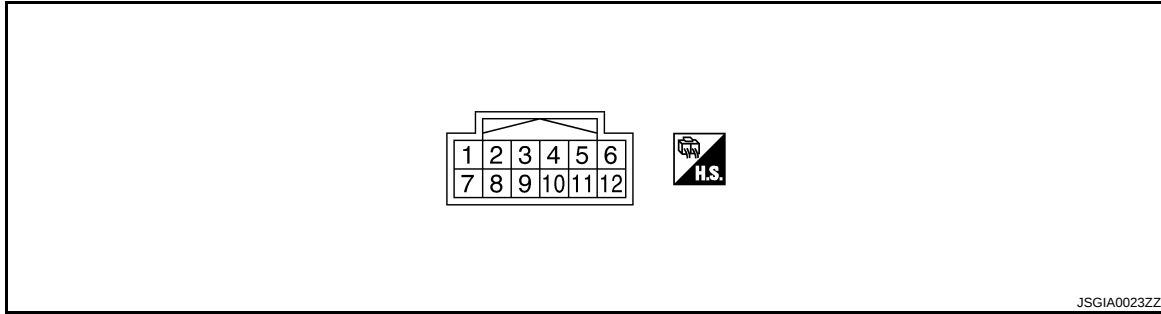
ECU DIAGNOSIS

POWER STEERING CONTROL UNIT

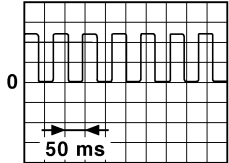
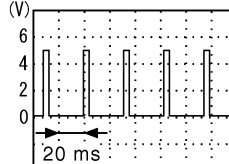
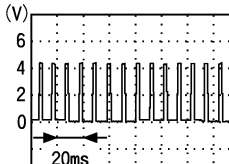
Reference Value

INFOID:000000003893535

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
1 (R/Y)	Ground	Power steering solenoid valve voltage	Output	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
3 (G/W)	Ground	Ignition switch power supply	Input	Ignition switch: ON	Battery voltage
				Ignition switch: OFF	0 V
5 (LG)	Ground	Power steering solenoid valve ground	—	Always	0 V
6 (B)	Ground	Ground	—	Always	0 V
8 (L/B)	Ground	Vehicle speed signal	Input	Vehicle speed: 40 km/h (25 MPH) CAUTION: Check air pressure of tire under standard condition.	 J5NIA0015GB
10 (V/W)	Ground	Engine speed signal	Input	Engine is running • Warm-up condition • Idle speed	 J5GIA0143ZZ
				Engine is running • Warm-up condition • Engine speed: Approx. 2,000 rpm	 PBIA3655J

POWER STEERING CONTROL UNIT

< ECU DIAGNOSIS >

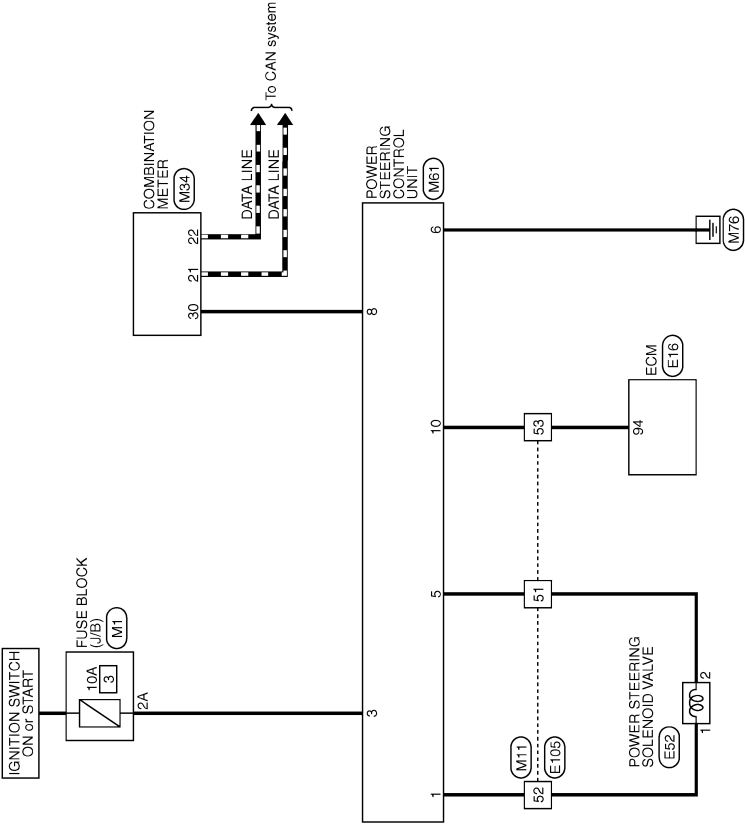
CAUTION:

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 -

INFOID:000000003893536

ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM



2008/01/23

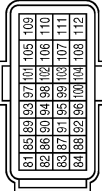
JCGWM0089G

POWER STEERING CONTROL UNIT

< ECU DIAGNOSIS >

ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM

Connector No.	E16
Connector Name	ECM
Connector Type	RH24FB-R28-L-LH



Terminal No.	Color of Wire	Signal Name [Specification]
84	GR	TACHO(Cabin)

Connector No.	E12
Connector Name	POWER STEERING SOLENOID VALVE
Connector Type	RH02MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	EPS SOL+
2	LG	EPS SOL-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH170MF-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
51	LG	-
52	V	-
53	GR	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS08FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G/O	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH170FW-CS10-M3



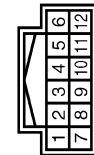
Terminal No.	Color of Wire	Signal Name [Specification]
51	LG	-
52	R/Y	-
53	V/W	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	L/B	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M61
Connector Name	POWER STEERING CONTROL UNIT
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R/Y	EPS SOL+
3	G/W	IGN
5	LG	EPS SOL-
6	B	GND
8	L/B	VEHICLE SPEED(ZP)
10	V/W	ENG TACHO

Fail-Safe

EPS system

POWER STEERING CONTROL UNIT

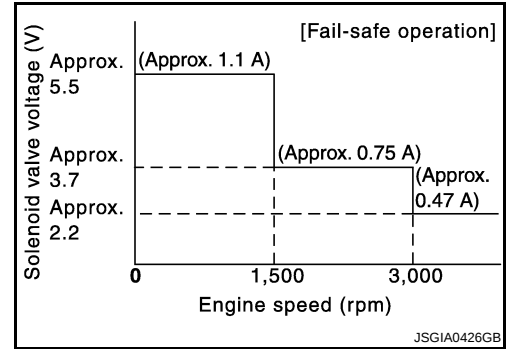
< ECU DIAGNOSIS >

- 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	• Engine speed is 1,500 rpm or more and there is no vehicle speed signal input for over 10 seconds during vehicle travel. • 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.

UNBALANCE STEERING WHEEL TURNING FORCE (TORQUE VARIATION)

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

UNBALANCE STEERING WHEEL TURNING FORCE (TORQUE VARIATION)

Description

INFOID:0000000003893538

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

Diagnosis Procedure

INFOID:0000000003893539

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 [STC-9, "Diagnosis Procedure"](#).

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-2, "NVH Troubleshooting Chart"](#).
NO >> Repair or replace damaged parts.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003971959

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. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the "SRS AIRBAG".
- 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003893541

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

POWER STEERING CONTROL UNIT

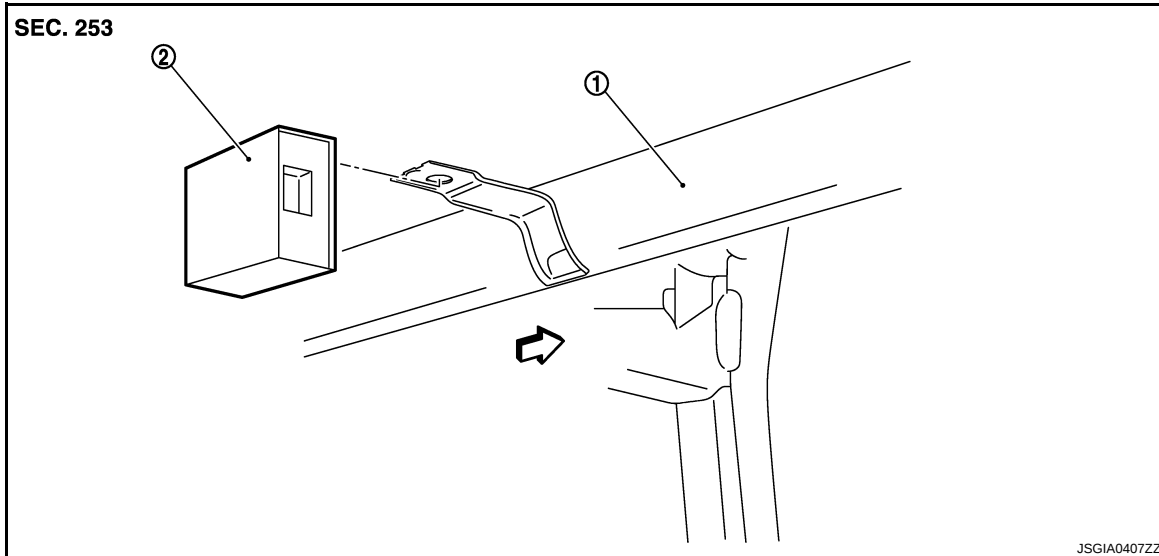
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

POWER STEERING CONTROL UNIT

Exploded View

INFOID:000000003893542



1. Steering member 2. Power steering control unit

⇐: Vehicle front

Removal and Installation

INFOID:000000003893543

REMOVAL

1. Remove glove box assembly. Refer to [IP-11, "Exploded View"](#).
2. Disconnect power steering control unit connector.
3. Remove power steering control unit.

INSTALLATION

Install in the reverse order of removal.