

SECTION CHG

CHARGING SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009385608

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 SR and SB section 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 SR section.
- Do not 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:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

PREPARATION

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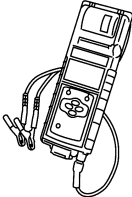
PREPARATION

PREPARATION

Special Service Tool

INFOID:000000009385609

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station  AWIIA1239ZZ	Tests batteries, starting and charging systems and charges batteries. Operating instructions, refer to diagnostic station instruction manual.
— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer  JSMIA0806ZZ	Tests batteries and charging systems. Operating instructions, refer to diagnostic analyzer instruction manual.

Commercial Service Tool

INFOID:000000009385610

Tool name	Description
Power tool  PIIB1407E	Loosening nuts, screws and bolts

CHG

COMPONENT PARTS

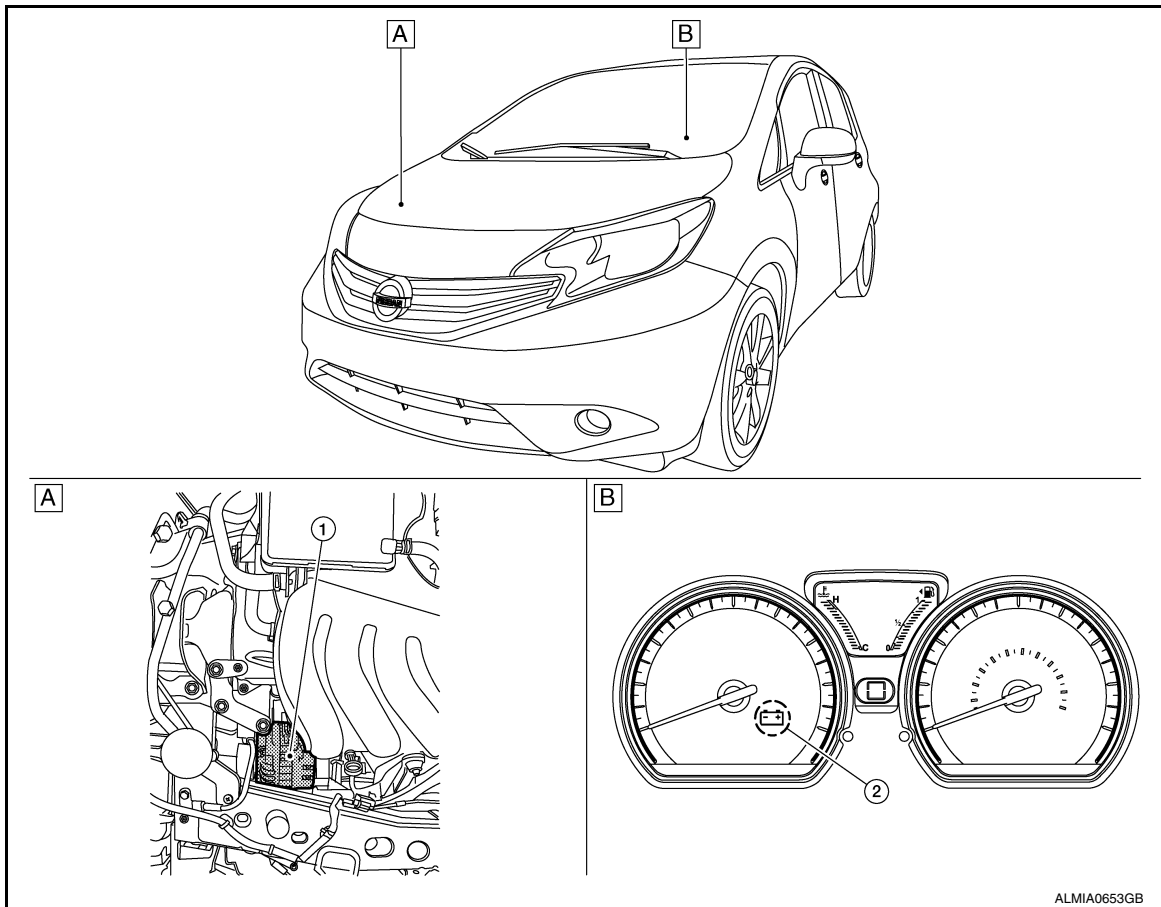
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000009014841



A. Inside motor room (right)

B. Combination meter

No.	Component part		Description
1.	Generator	"B" terminal	Refer to: CHG-17, "Description" .
		"S" terminal	Refer to: CHG-21, "Description" .
		"L" terminal	Refer to: CHG-18, "Description" .
2.	Combination meter (Charge warning lamp)		The IC voltage regulator warning function activates to illuminate the charge warning lamp, if any of the following symptoms occur while generator is operating: - Excessive voltage is produced. - No voltage is produced.

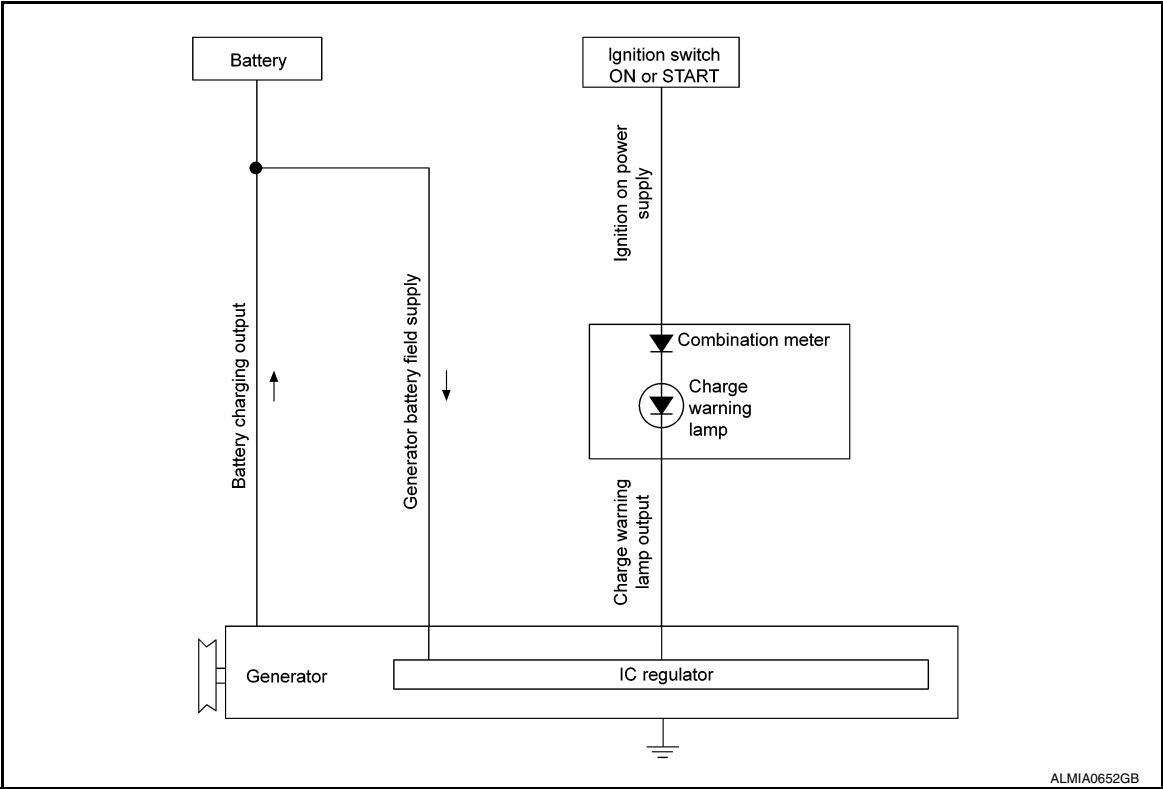
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SYSTEM

System Description

INFOID:000000009446803



The generator provides DC voltage to operate the vehicle's electrical system and to keep the battery charged. The voltage output is controlled by the IC regulator.

CHG

CHARGING SYSTEM

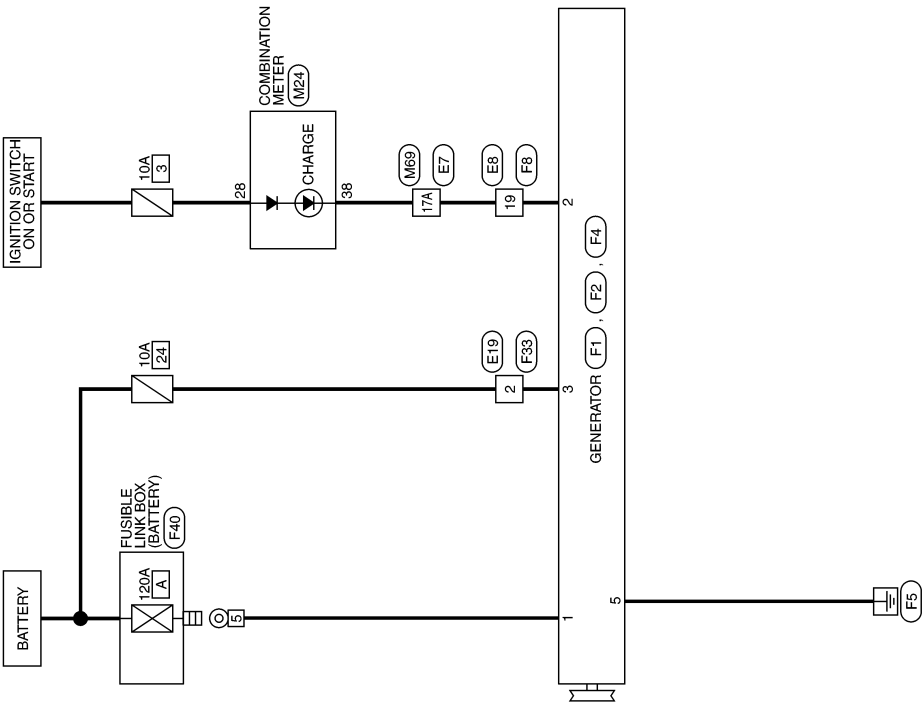
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WIRING DIAGRAM

CHARGING SYSTEM

Wiring Diagram

INFOID:000000009014843



CHARGING SYSTEM

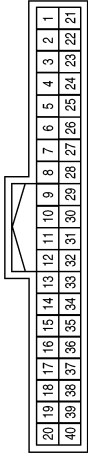
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CHARGING SYSTEM

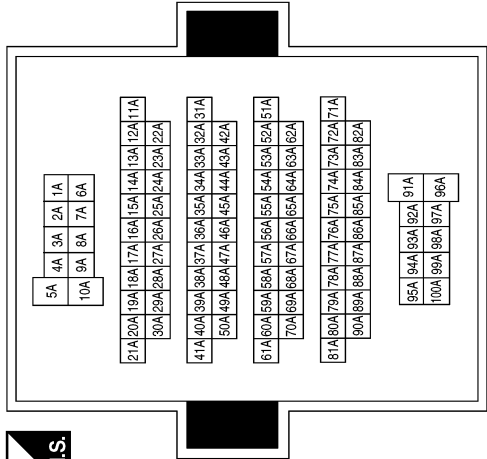
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CHARGING SYSTEM CONNECTORS

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE

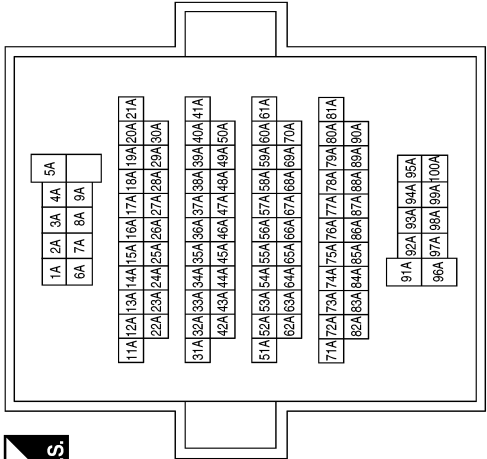


Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
28	GR	IGN
38	Y	CHG

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17A	V	-

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CHARGING SYSTEM

< WIRING DIAGRAM >

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Color	WHITE




Terminal No.	19
Color of Wire	V
Signal Name	—

Connector No.	E19
Connector Name	WIRE TO WIRE
Connector Color	WHITE




Terminal No.	2
Color of Wire	L
Signal Name	—

Connector No.	F1
Connector Name	GENERATOR
Connector Color	BLACK




Terminal No.	Color of Wire	Signal Name
2	LW	—
3	G	—

Connector No.	F2
Connector Name	GENERATOR
Connector Color	—



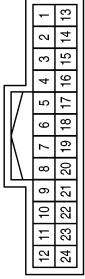

Terminal No.	1
Color of Wire	B/R
Signal Name	—

Connector No.	F4
Connector Name	GENERATOR
Connector Color	—




Terminal No.	5
Color of Wire	B/Y
Signal Name	—

Connector No.	F8
Connector Name	WIRE TO WIRE
Connector Color	WHITE

Terminal No.	19
Color of Wire	L/W
Signal Name	—

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CHARGING SYSTEM

< WIRING DIAGRAM >

Connector No.	F33	F40
Connector Name	WIRE TO WIRE	FUSIBLE LINK BOX (BATTERY)
Connector Color	WHITE	-



Terminal No.	2	5
Color of Wire	G	B/R
Signal Name	-	-



CHG

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (With EXP-800 NI or GR8-1200 NI)

INFOID:000000009446782

CHARGING SYSTEM DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

To test the charging system, use the following special service tools:

- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

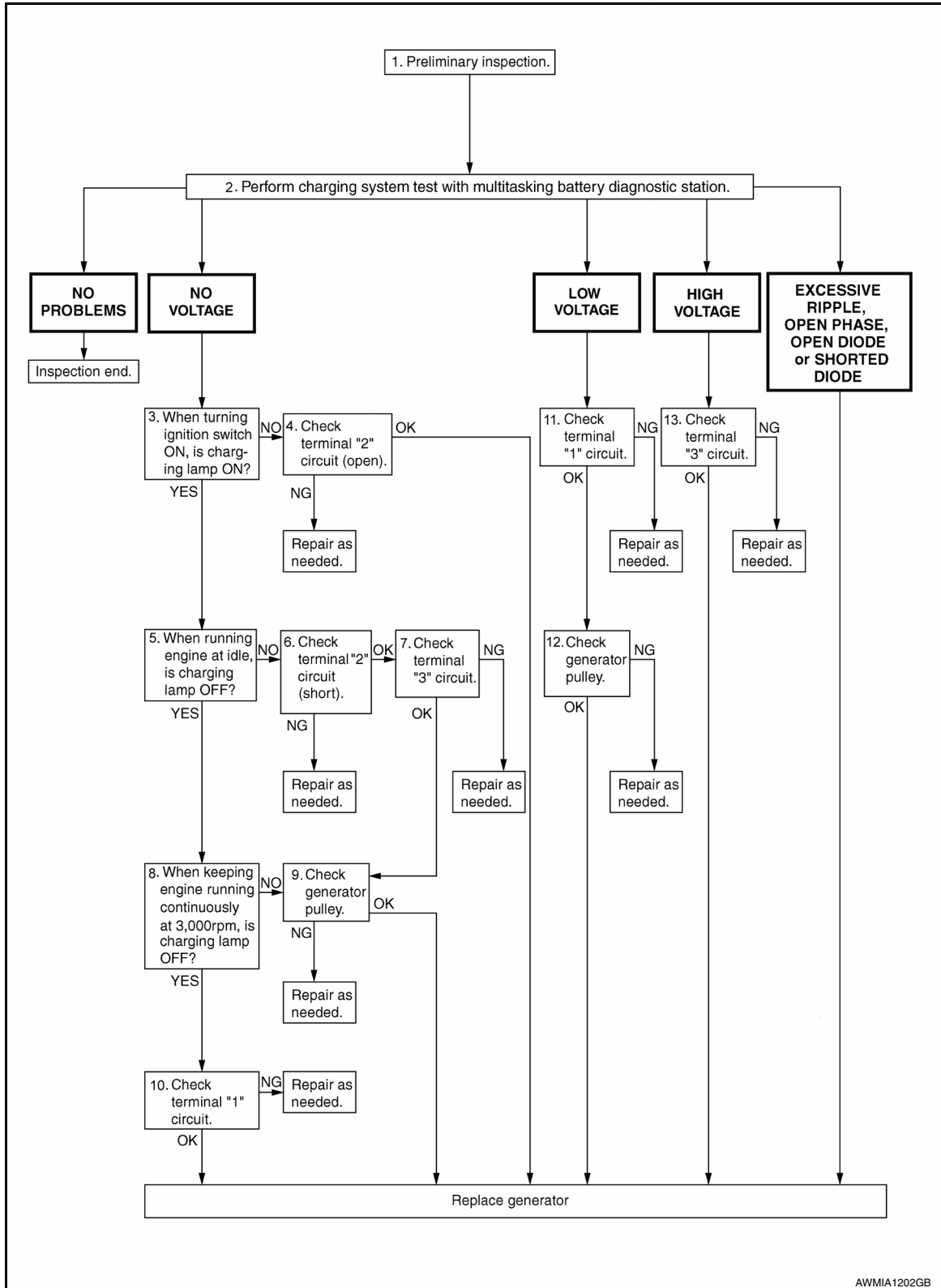
NOTE:

Refer to the applicable Instruction Manual for proper charging system diagnosis procedures.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

OVERALL SEQUENCE



DETAILED FLOW

NOTE:

To ensure a complete and thorough diagnosis, the battery, stator and generator test segments must be done as a set from start to finish.

1. PRELIMINARY INSPECTION

Perform the preliminary inspection. Refer to [CHG-16. "Diagnosis Procedure"](#).

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2. DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

Perform the charging system test using Multitasking battery and electrical diagnostic station GR8-1200 NI or Battery and electrical diagnostic analyzer EXP-800 NI. Refer to the applicable Instruction Manual for proper testing procedures.

Test result

NO PROBLEMS>>Charging system is normal and will also show "DIODE RIPPLE" test result.

NO VOLTAGE>>GO TO 3.

LOW VOLTAGE>>GO TO 11.

HIGH VOLTAGE>>GO TO 13.

EXCESSIVE RIPPLE, OPEN PHASE, OPEN DIODE or SHORTED DIODE>>Replace the generator. Refer to [CHG-23. "Removal and Installation"](#). Perform "DIODE RIPPLE" test again using Multitasking battery and electrical diagnostic station GR8-1200 NI or Battery and electrical diagnostic analyzer EXP-800 NI to confirm repair.

3. INSPECTION WITH CHARGE WARNING LAMP (IGNITION SWITCH IS ON)

Turn the ignition switch ON.

Does the charge warning lamp illuminate?

YES >> GO TO 5.

NO >> GO TO 4.

4. "L" TERMINAL CIRCUIT (OPEN) INSPECTION

Check "L" terminal circuit (open). Refer to [CHG-18. "Diagnosis Procedure"](#).

Is the "L" terminal circuit normal?

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

NO >> Repair as needed.

5. INSPECTION WITH CHARGE WARNING LAMP (IDLING)

Start the engine and run it at idle.

Does the charge warning lamp turn OFF?

YES >> GO TO 8.

NO >> GO TO 6.

6. "L" TERMINAL CIRCUIT (SHORT) INSPECTION

Check "L" terminal circuit (short). Refer to [CHG-20. "Diagnosis Procedure"](#).

Is the "L" terminal circuit normal?

YES >> GO TO 7.

NO >> Repair as needed.

7. "S" TERMINAL CIRCUIT INSPECTION

Check "S" terminal circuit. Refer to [CHG-21. "Diagnosis Procedure"](#).

Is the "S" terminal circuit normal?

YES >> GO TO 9.

NO >> Repair as needed.

8. INSPECTION WITH CHARGE WARNING LAMP (ENGINE AT 3,000 RPM)

Increase and maintain the engine speed at 3,000 rpm.

Does the charge warning lamp remain off?

YES >> GO TO 10.

NO >> GO TO 9.

9. INSPECTION OF GENERATOR PULLEY

Check generator pulley. Refer to [CHG-23. "Removal and Installation"](#).

Is generator pulley normal?

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

NO >> Repair as needed.

10. "B" TERMINAL CIRCUIT INSPECTION

Check "B" terminal circuit. Refer to [CHG-17. "Diagnosis Procedure"](#).

Is "B" terminal circuit normal?

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

NO >> Repair as needed.

11. "B" TERMINAL CIRCUIT INSPECTION

Check "B" terminal circuit. Refer to [CHG-17. "Diagnosis Procedure"](#).

Is "B" terminal circuit normal?

YES >> GO TO 12.

NO >> Repair as needed.

12. INSPECTION OF GENERATOR PULLEY

Check generator pulley. Refer to [CHG-23. "Removal and Installation"](#).

Is generator pulley normal?

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

NO >> Repair as needed.

13. "S" TERMINAL CIRCUIT INSPECTION

Check "S" terminal circuit. Refer to [CHG-21. "Diagnosis Procedure"](#).

Is the "S" terminal circuit normal?

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

NO >> Repair as needed.

Work Flow (Without EXP-800 NI or GR8-1200 NI)

INFOID:000000009446783

OVERALL SEQUENCE

Before performing a generator test, make sure that the battery is fully charged. A 30-volt voltmeter and suitable test probes are necessary for the test.

- Before starting, inspect the fusible link.

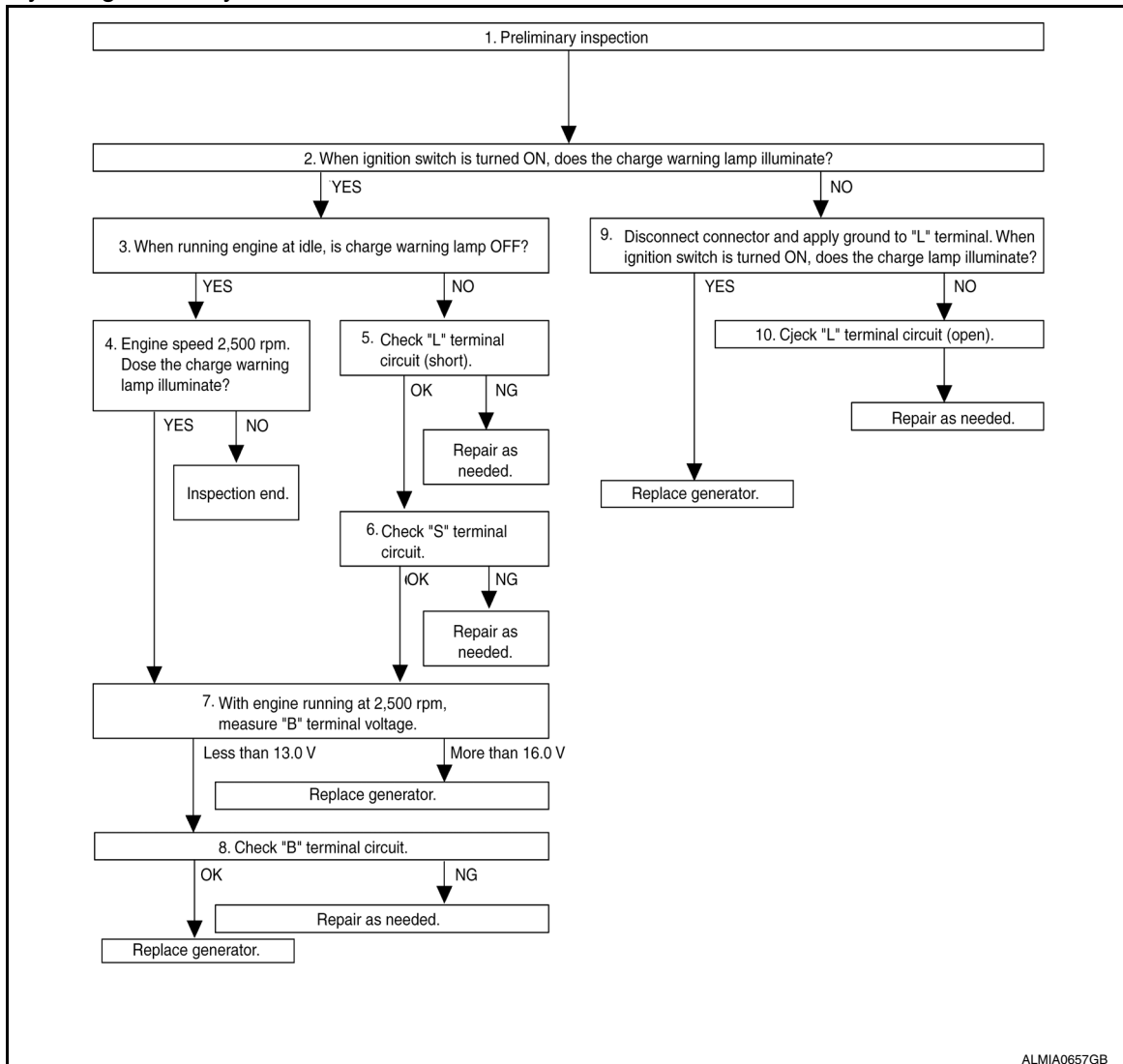
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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

- Use fully charged battery.



DETAILED FLOW

1. PRELIMINARY INSPECTION

Perform the preliminary inspection. Refer to [CHG-16, "Diagnosis Procedure"](#).

>> GO TO 2.

2. INSPECTION WITH CHARGE WARNING LAMP (IGNITION SWITCH IS TURNED ON)

When ignition switch is turned ON.

Does the charge warning lamp illuminate?

YES >> GO TO 3.

NO >> GO TO 9.

3. INSPECTION WITH CHARGE WARNING LAMP (IDLING)

Start the engine and run it at idle

Does the charge warning lamp turn OFF?

YES >> GO TO 4.

NO >> GO TO 5.

4. INSPECTION WITH CHARGE WARNING LAMP (ENGINE AT 2,500 RPM)

Increase and maintain the engine speed at 2,500 rpm.

Does the charge warning lamp illuminate?

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 8.
NO >> Inspection End.

A

5. "L" TERMINAL CIRCUIT (SHORT) INSPECTION

Check terminal "L" circuit for (short). Refer to [CHG-20. "Diagnosis Procedure"](#).

B

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair as needed.

C

6. "S" TERMINAL CIRCUIT INSPECTION

Check terminal "S" circuit. Refer to [CHG-21. "Diagnosis Procedure"](#).

D

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair as needed.

E

7. MEASURE "B" TERMINAL VOLTAGE

Start engine. With engine running at 2,500 rpm, measure "B" terminal voltage.

What voltage does the measurement result show?

F

Less than 13.0 V >> GO TO 8.

More than 16.0 V >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).

8. "B" TERMINAL CIRCUIT INSPECTION

G

Check "B" terminal circuit. Refer to [CHG-17. "Diagnosis Procedure"](#).

Is the inspection result normal?

H

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).
NO >> Repair as needed.

9. INSPECTION WITH CHARGE WARNING LAMP (IGNITION SWITCH IS ON)

I

1. Disconnect generator connector and apply ground to "L" terminal.
2. Turn the ignition switch ON.

Does the charge warning lamp illuminate?

J

YES >> Replace generator. Refer to [CHG-23. "Removal and Installation"](#).
NO >> GO TO 10.

10. CHECK "L" TERMINAL CIRCUIT (OPEN)

K

Check "L" terminal circuit (OPEN). Refer to [CHG-18. "Diagnosis Procedure"](#).

L

>> Repair as needed.

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CHARGING SYSTEM PRELIMINARY INSPECTION

< BASIC INSPECTION >

CHARGING SYSTEM PRELIMINARY INSPECTION

Diagnosis Procedure

INFOID:000000009446787

1.CHECK BATTERY TERMINALS CONNECTION

Check if battery terminals are clean and tight.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair battery terminal connection. Confirm repair by performing complete Charging system test using EXP-800 NI or GR8-1200 NI (if available). Refer to the applicable Instruction Manual for proper testing procedures.

2.CHECK FUSE

Check for blown fuse and fusible link.

Unit	Power source (Power supply terminals)	Fuse or Fusible Link
Generator	Battery (terminal 3)	Fuse 24
	Battery (terminal 1)	Fusible Link A
Combination meter	Ignition switch ON (terminal 2)	Fuse 3

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the blown fuse or fusible link after repairing the affected circuit.

3.CHECK GENERATOR GROUND TERMINAL CONNECTION

Check if connector F4 terminal 5 is clean.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair connection.

4.CHECK DRIVE BELT TENSION

Check drive belt tension. Refer to [EM-115, "Drive Belt"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair as needed.

B TERMINAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

B TERMINAL CIRCUIT

Description

INFOID:000000009446807

"B" terminal circuit supplies power to charge the battery and to operate the vehicles electrical system.

Diagnosis Procedure

INFOID:000000009446808

Regarding Wiring Diagram information. Refer to [CHG-6. "Wiring Diagram"](#).

1.CHECK "B" TERMINAL CONNECTION

1. Turn ignition switch OFF.
2. Check if "B" terminal is clean and tight.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair terminal "B" connection. Confirm repair by performing complete Charging system test using the EXP-800 NI or GR8-1200 NI (if available). Refer to applicable Instruction Manual for proper testing procedures.

2.CHECK "B" TERMINAL CIRCUIT

Check voltage between generator "B" terminal and ground.

(+)		(-)	Voltage (Approx.)
Generator			
Connector	Terminal		
F2	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness for open between generator and fusible link.

3.CHECK "B" TERMINAL CONNECTION (VOLTAGE DROP TEST)

1. Start engine, then engine running at idle and warm.
2. Check voltage between battery positive terminal and generator connector "B" terminal.

(+)		(-)	Voltage (Approx.)
Generator			
Connector	Terminal		
F2	1	Battery positive terminal	Less than 0.2V

Is the inspection result normal?

YES >> "B" terminal circuit is normal. Refer to [CHG-10. "Work Flow \(With EXP-800 NI or GR8-1200 NI\)"](#) or [CHG-13. "Work Flow \(Without EXP-800 NI or GR8-1200 NI\)"](#).

NO >> Check harness between battery and generator for continuity.

L TERMINAL CIRCUIT (OPEN)

< DTC/CIRCUIT DIAGNOSIS >

L TERMINAL CIRCUIT (OPEN)

Description

INFOID:000000009446809

The "L" terminal circuit controls the charge warning lamp. The charge warning lamp turns ON when the ignition switch is set to ON or START. When the generator is providing sufficient voltage with the engine running, the charge warning lamp turns OFF. If the charge warning lamp illuminates with the engine running, a malfunction is indicated.

Diagnosis Procedure

INFOID:000000009446810

Regarding Wiring Diagram information. Refer to [CHG-6, "Wiring Diagram"](#).

1.CHECK "L" TERMINAL CONNECTION

1. Turn ignition switch OFF.
2. Check if "L" terminal is clean and tight.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair "L" terminal connection. Confirm repair by performing complete Charging system test using EXP-800 NI or GR8-1200 NI (if available). Refer to applicable Instruction Manual for proper testing procedures.

2.CHECK "L" TERMINAL CIRCUIT (OPEN)

1. Disconnect the generator connector.
2. Apply ground to generator harness connector terminal.
3. Check condition of the charge warning lamp with the ignition switch in the ON position.

Generator		Ground	Condition	
Connector	Terminal		Ignition switch position	Charge warning lamp
F1	2		ON	Illuminate

Does it illuminate?

YES >> "L" terminal circuit is normal. Refer to [CHG-10, "Work Flow \(With EXP-800 NI or GR8-1200 NI\)"](#) or [CHG-13, "Work Flow \(Without EXP-800 NI or GR8-1200 NI\)"](#).

NO >> GO TO 3.

3.CHECK HARNESS CONTINUITY (OPEN CIRCUIT)

1. Disconnect the battery cable from the negative terminal.
2. Disconnect the combination meter connector.
3. Check continuity between generator harness connector and combination meter harness connector.

Generator		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
F1	2	M24	38	Yes

is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connectors.

4.CHECK POWER SUPPLY CIRCUIT

1. Connect the battery cable to the negative terminal.
2. Check voltage between combination meter harness connector and ground.

L TERMINAL CIRCUIT (OPEN)

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition	Voltage (Approx.)
Combination meter				
Connector	Terminal			
M24	28	Ground	When the ignition switch is in ON position	Battery voltage

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-48, "Removal and Installation"](#).
- NO >> Repair or replace the harness or connectors.

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L TERMINAL CIRCUIT (SHORT)

< DTC/CIRCUIT DIAGNOSIS >

L TERMINAL CIRCUIT (SHORT)

Description

INFOID:000000009446811

The terminal "L" circuit controls the charge warning lamp. The charge warning lamp turns ON when the ignition switch is set to ON or START. When the generator is providing sufficient voltage with the engine running, the charge warning lamp turns off. If the charge warning lamp illuminates with the engine running, a malfunction is indicated.

Diagnosis Procedure

INFOID:000000009446812

Regarding Wiring Diagram information, refer to [CHG-6, "Wiring Diagram"](#).

1.CHECK "L" TERMINAL CIRCUIT (SHORT)

1. Turn ignition switch OFF.
2. Disconnect generator connector.
3. Turn ignition switch ON.

Does charge warning lamp illuminate?

YES >> GO TO 2.

NO >> Refer to [CHG-10, "Work Flow \(With EXP-800 NI or GR8-1200 NI\)"](#) or [CHG-13, "Work Flow \(Without EXP-800 NI or GR8-1200 NI\)"](#).

2.CHECK HARNESS CONTINUITY (SHORT CIRCUIT)

1. Turn ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Disconnect generator connector.
4. Check continuity between the generator harness connector and ground.

Generator		Ground	Continuity
Connector	Terminal		
F1	2		No

Is the inspection result normal?

YES >> Replace the combination meter. Refer to [MWI-48, "Removal and Installation"](#).

NO >> Repair or replace the harness or connectors.

S TERMINAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

S TERMINAL CIRCUIT

Description

INFOID:000000009446813

The output voltage of the generator is controlled by the IC regulator at terminal "S" detecting the input voltage from battery.

The "S" terminal circuit detects the battery voltage to adjust the generator output voltage with the IC voltage regulator.

Diagnosis Procedure

INFOID:000000009446814

Regarding Wiring Diagram information. Refer to [CHG-6, "Wiring Diagram"](#).

1.CHECK "S" TERMINAL CONNECTION

1. Turn ignition switch OFF.
2. Check if "S" terminal is clean and tight.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair "S" terminal connection. Confirm repair by performing complete Charging system test using EXP-800 NI or GR8-1200 NI (if available). Refer to the applicable Instruction Manual for proper testing procedures.

2.CHECK "S" TERMINAL CIRCUIT

Check voltage between generator harness connector and ground.

(+) Generator		(-)	Voltage (Approx.)
Connector	Terminal		
F1	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Refer to [CHG-10, "Work Flow \(With EXP-800 NI or GR8-1200 NI\)"](#) or [CHG-13, "Work Flow \(Without EXP-800 NI or GR8-1200 NI\)"](#).

NO >> Check harness for open between generator and fuse.

CHG

CHARGING SYSTEM

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

CHARGING SYSTEM

Symptom Table

INFOID:000000009014847

Symptom	Reference
Battery discharged	Refer to CHG-10, "Work Flow (With EXP-800 NI or GR8-1200 NI)" or CHG-13, "Work Flow (Without EXP-800 NI or GR8-1200 NI)" .
The charge warning lamp does not illuminate when the ignition switch is set to ON.	
The charge warning lamp does not turn OFF after the engine starts.	
The charging warning lamp turns ON when increasing the engine speed.	

GENERATOR

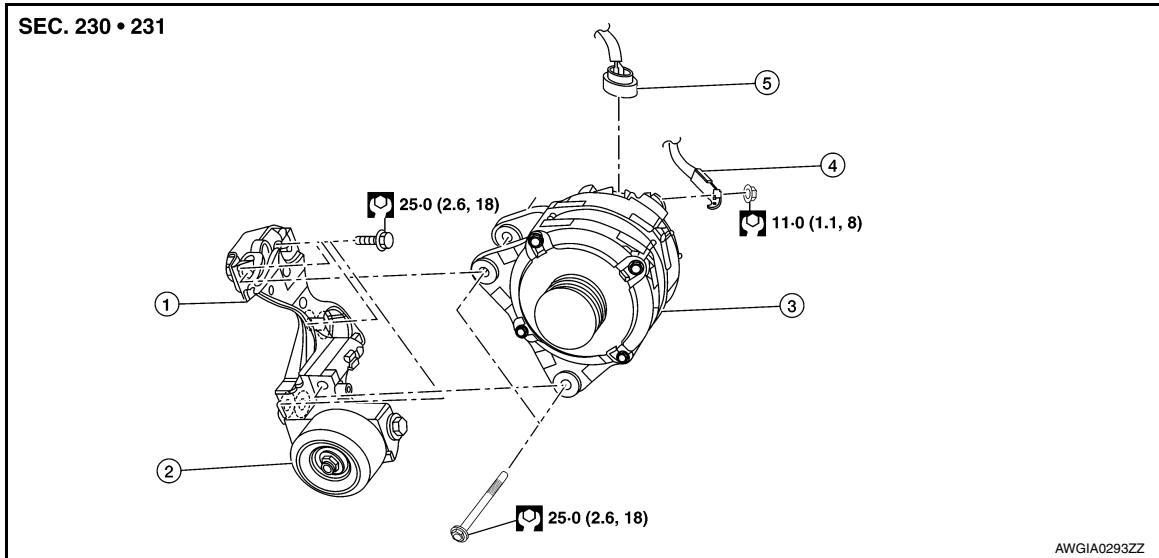
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

GENERATOR

Exploded View

INFOID:000000009385611



- | | | |
|-------------------------|--------------------------------|--------------|
| 1. Generator bracket | 2. Tensioner Idler pulley | 3. Generator |
| 4. "B" terminal harness | 5. Generator harness connector | |

Removal and Installation

INFOID:000000009385612

REMOVAL

1. Disconnect the battery cable from the negative terminal. Refer to [PG-69, "Exploded View"](#).
2. Remove the radiator core support upper. [DLK-122, "RADIATOR CORE SUPPORT UPPER : Removal and Installation"](#).
3. Remove drive belt. Refer to [EM-24, "Exploded View"](#).
4. Disconnect generator harness connector.
5. Remove "B" terminal nut and disconnect "B" terminal harness.
6. Remove the generator bolts.
7. Remove the generator.

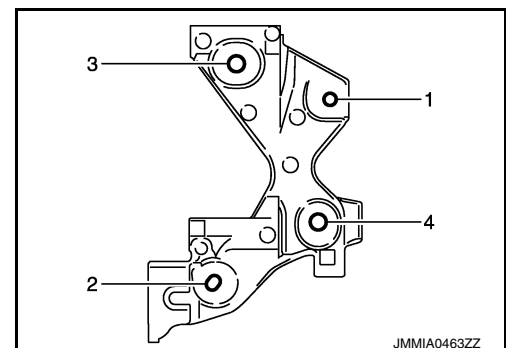
CAUTION:

Be careful not to damage surrounding parts when removing generator from the vehicle.

8. Remove bolts and remove generator bracket if necessary.

INSTALLATION

1. Install the generator bracket (if removed), using the following procedure.
 - a. Temporarily tighten bolt (1).
 - b. Temporarily tighten bolt (2).
 - c. Tighten bolts to specification in numerical order as shown.



GENERATOR

< REMOVAL AND INSTALLATION >

2. Install the generator using the following procedure.
 - a. Temporarily tighten the generator bolts in order from the lower to the upper.
 - b. Tighten the generator bolts to the specification starting with the top bolt.
 - c. Install "B" terminal harness and "B" terminal nut.

CAUTION:

Be sure to tighten "B" terminal nut carefully.

Installation of the remaining components is the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

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Generator

INFOID:0000000009385613

Model*	A002TJ1791ZC
Manufacturer	Mitsubishi
Nominal rating	13.5V - 110A
Ground polarity	Negative
Minimum revolution under no-load	1,000 rpm
Hot output current (When 13.5 V is applied)	More than 27A/1,300 rpm More than 95A/2,500 rpm More than 116A/5,000 rpm

* : Always check with the Parts Department for the latest parts information.

A

B

C

D

E

F

G

H

I

J

K

L

CHG

N

O

P