

SECTION **DMS**

DRIVE MODE SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:000000011972839

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.

Precaution for Work

INFOID:000000011972840

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[DRIVE MODE SELECTOR]

PREPARATION

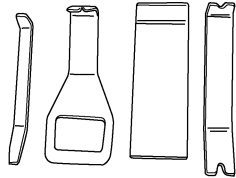
PREPARATION

Special Service Tool

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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set	Removing trim components



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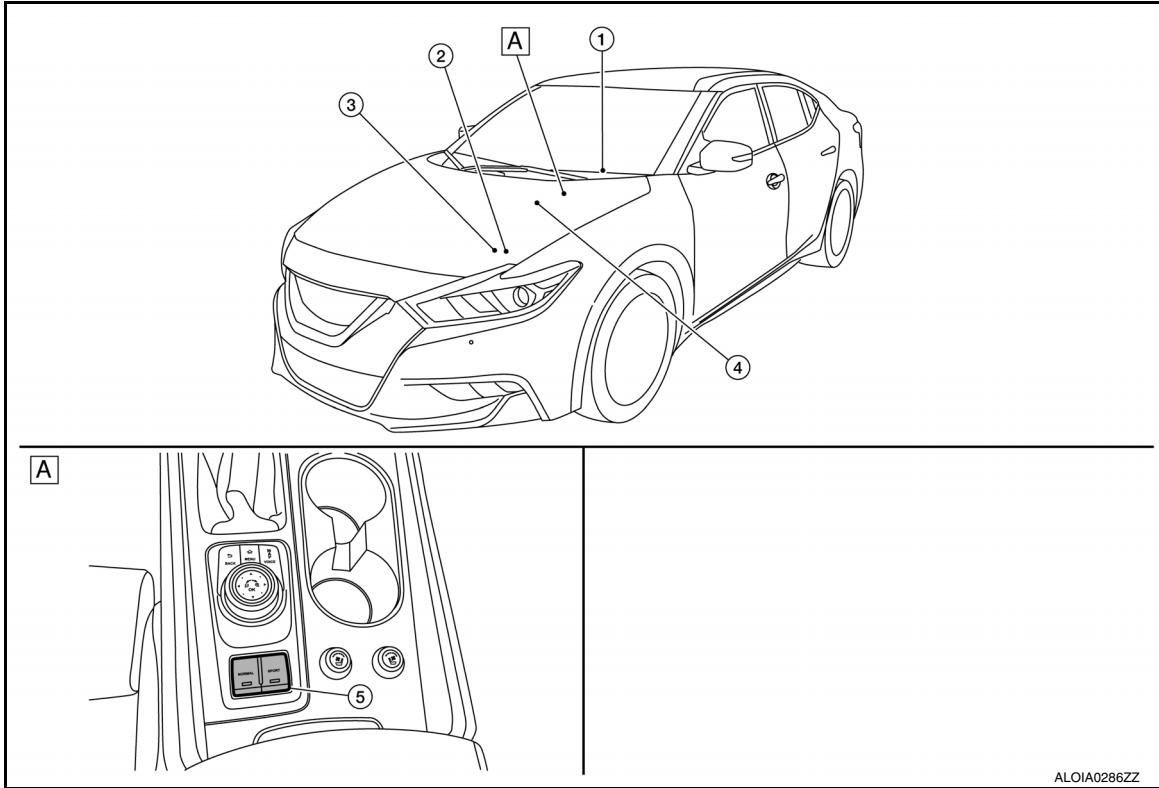
DMS

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000011972842



A Center console finisher

No.	Component	Function
①	Combination meter	The combination meter receives the drive mode indicator signal via CAN communications from the TCM. Refer to MWI-5, "METER SYSTEM : Component Parts Location" for detailed installation location.
②	TCM	<ul style="list-style-type: none"> The TCM receives the drive mode selector signal via CAN communications from the A/C auto amp. The TCM transmits the drive mode indicator signal via CAN communications to the combination meter. Refer to TM-12, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
③	ECM	The ECM receives the drive mode signal via CAN communications from the TCM. Refer to EC-15, "ENGINE CONTROL SYSTEM : Component Parts Location" for detailed installation location.
④	A/C auto amp.	The combination meter transmits the drive mode selector signal via CAN communications to the TCM.
⑤	Drive mode selector	Refer to DMS-5, "Drive Mode Selector" .

COMPONENT PARTS

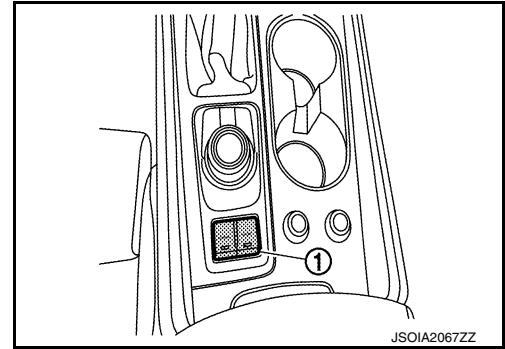
< SYSTEM DESCRIPTION >

[DRIVE MODE SELECTOR]

Drive Mode Selector

INFOID:0000000011972843

- The drive mode selector ① is installed to the center console finisher.
- When the drive mode indicator (SPORT) on the combination meter is OFF and the drive mode selector (SPORT mode switch) is pressed, the SPORT mode is active and the drive mode indicator (SPORT) is ON.
- When the drive mode indicator (SPORT) on the combination meter is ON and the drive mode selector (NORMAL mode switch) is pressed, the drive mode (SPORT mode) is cancelled and the drive mode indicator (SPORT) is OFF.

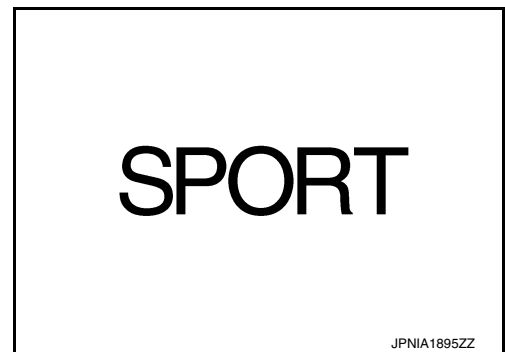


Drive Mode Indicator

INFOID:0000000011972844

DESIGN/PURPOSE

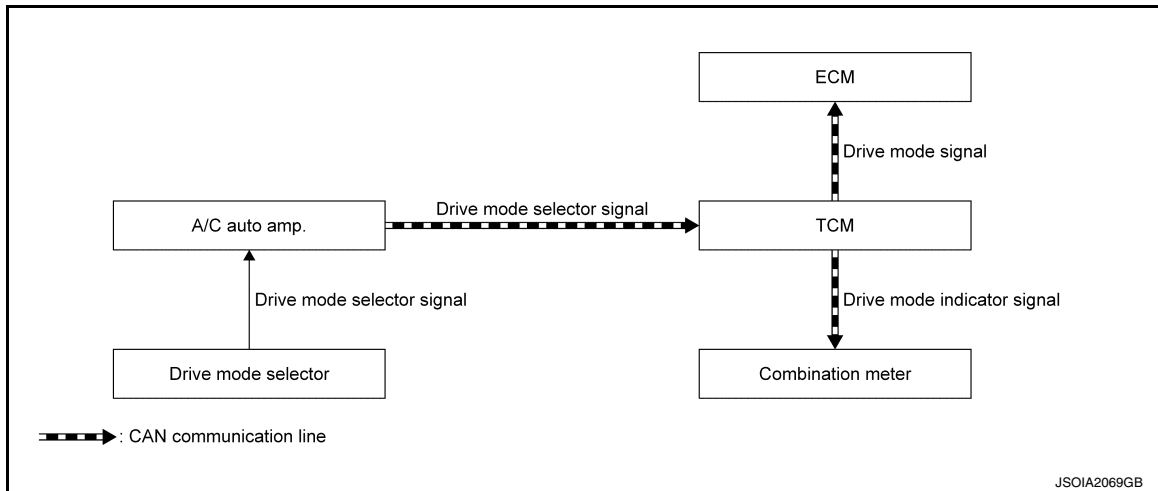
The drive mode indicator (SPORT) inform the driver that the vehicle is in SPORT mode.



BULB CHECK

Not applicable

SYSTEM DIAGRAM



SIGNAL PATH

- TCM receives drive mode selector signal (SPORT/NORMAL) from A/C auto amp. via CAN communication. Based on the signal, TCM transmits drive mode signal (SPORT/NORMAL) to ECM via CAN communication.
- TCM transmits drive mode indicator signal (SPORT) to combination meter via CAN communication. Based on the signal, combination meter illuminates drive mode indicator (SPORT).

LIGHTING CONDITION

When all of the following conditions are satisfied.

- Ignition switch: ON
- The drive mode selector (SPORT mode switch) is pressed when the drive mode indicator (SPORT) is OFF

SHUTOFF CONDITION

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[DRIVE MODE SELECTOR]

When any of the condition listed below is satisfied.

- Ignition switch: Other than ON
- The drive mode selector (SPORT mode switch) is pressed when the drive mode indicator (SPORT) is ON.

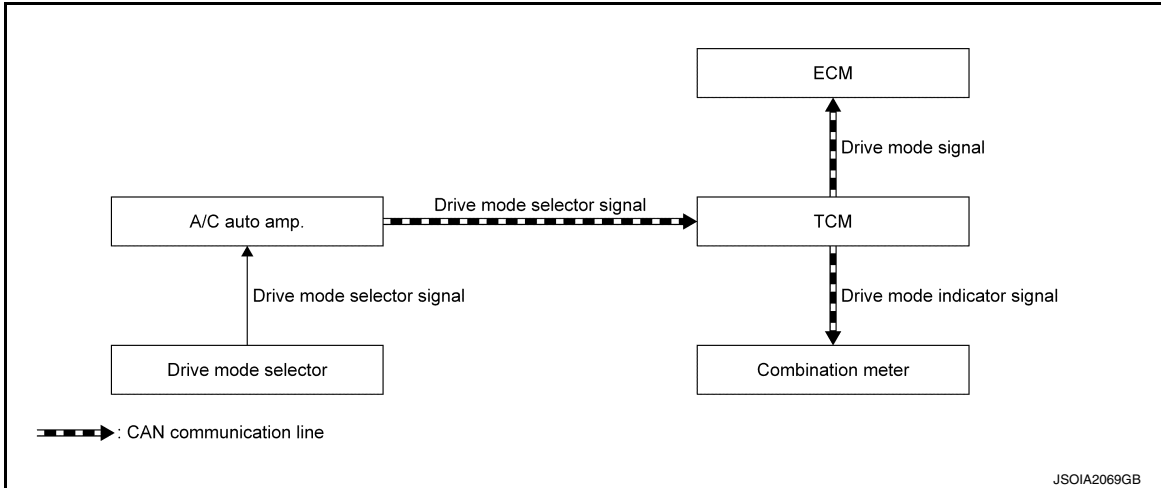
SYSTEM

DRIVE MODE SELECTOR

DRIVE MODE SELECTOR : System Description

INFOID:0000000011972845

SYSTEM DIAGRAM



SYSTEM DISCRIPTION

- TCM receives drive mode selector signal (SPORT/NORMAL) from A/C auto amp. via CAN communication. TCM transmit drive mode signal (SPORT/NORMAL) to ECM via CAN communication according to the signal.
- TCM transmits drive mode indicator signal (SPORT) to combination meter via CAN communication. Combination meter illuminates drive mode indicator (SPORT) according to the signal.

Each ECU Control

- For TCM control, refer to [TM-33. "SHIFT CONTROL : System Description"](#).
- For ECM control, refer to [EC-55. "SPORT MODE CONTROL : System Description"](#).

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ECU DIAGNOSIS INFORMATION

DRIVE MODE SELECTOR

List of ECU Reference

INFOID:0000000011972846

ECU	Reference
TCM	TM-47, "Reference Value"
	TM-53, "Fail-safe"
	TM-57, "DTC Inspection Priority Chart"
	TM-58, "DTC Index"
ECM	EC-86, "Reference Value"
	EC-103, "Fail-safe"
	EC-105, "DTC Inspection Priority Chart"
	EC-107, "DTC Index"
A/C auto amp.	HAC-30, "Reference Value"
	HAC-33, "Fail-safe"
	HAC-33, "DTC Inspection Priority Chart"
	HAC-33, "DTC Index"
Combination meter	MWI-23, "Reference Value"
	MWI-28, "Fail-safe"
	MWI-29, "DTC Index"

DRIVE MODE SELECTOR

< WIRING DIAGRAM >

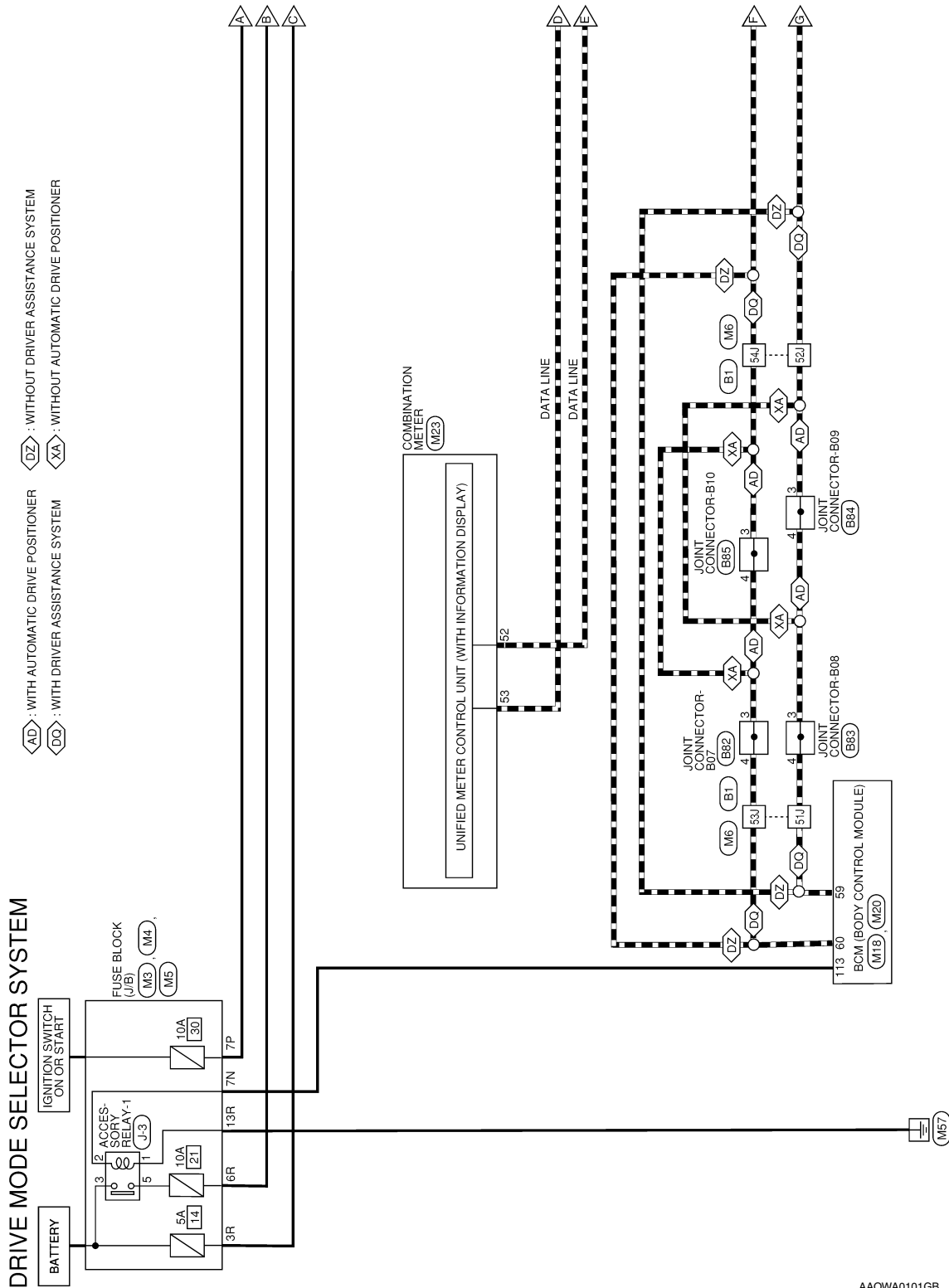
[DRIVE MODE SELECTOR]

WIRING DIAGRAM

DRIVE MODE SELECTOR

Wiring Diagram

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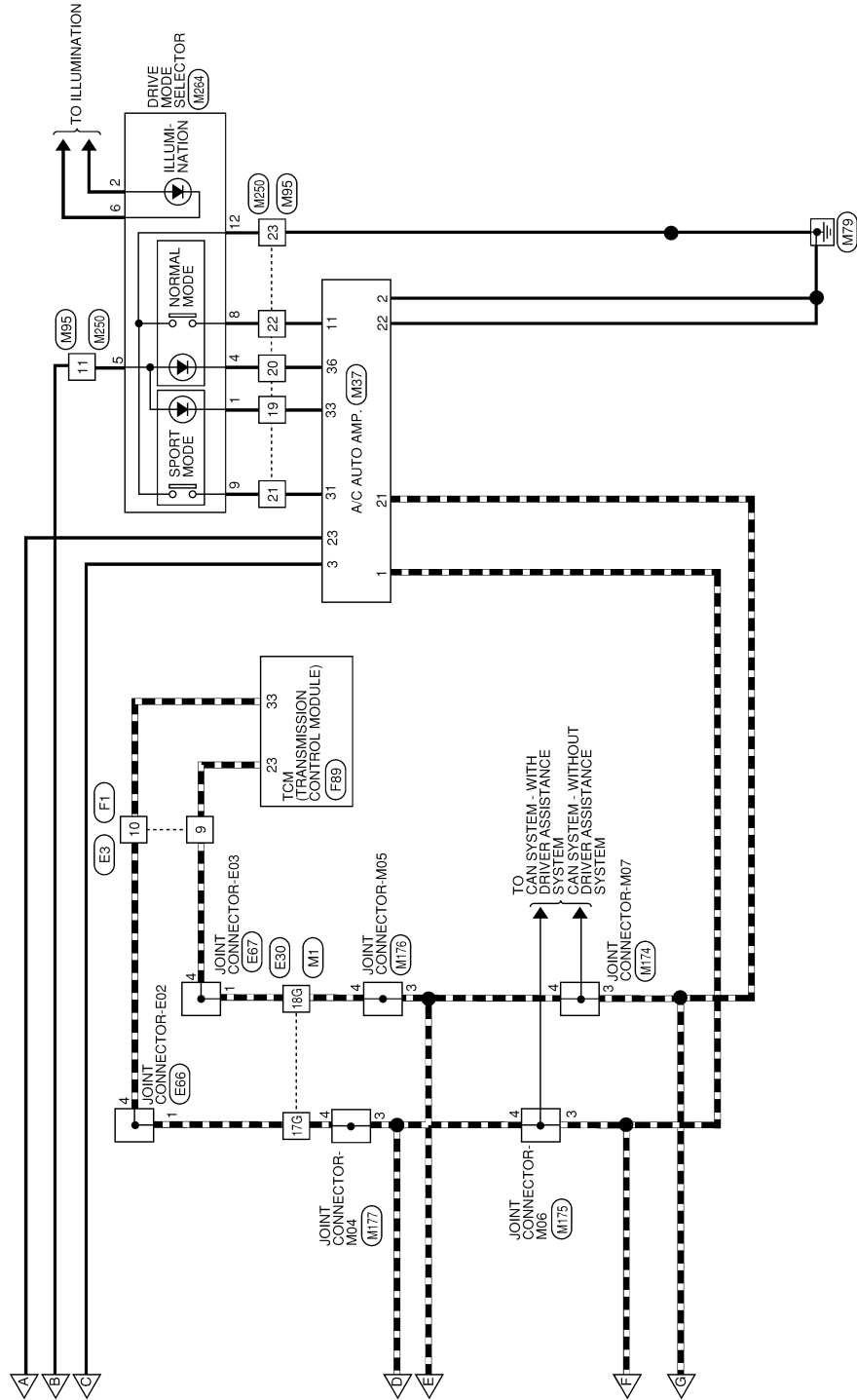
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DRIVE MODE SELECTOR

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[DRIVE MODE SELECTOR]



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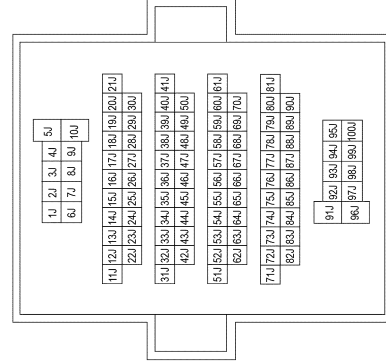
DRIVE MODE SELECTOR

< WIRING DIAGRAM >

[DRIVE MODE SELECTOR]

DRIVE MODE SELECTOR SYSTEM CONNECTORS

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY



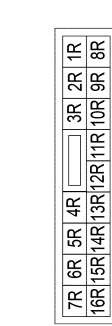
Terminal No.	Color of Wire	Signal Name
51J	P	-
52J	P	-
53J	L	-
54J	L	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK



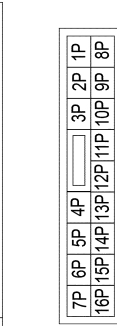
Terminal No.	Color of Wire	Signal Name
113	BR	ACC RELAY OUT

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN



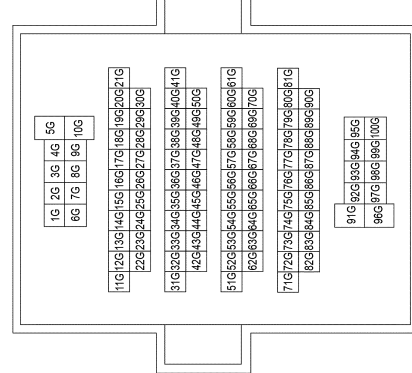
Terminal No.	Color of Wire	Signal Name
3R	G	-
6R	P	-
13R	B	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



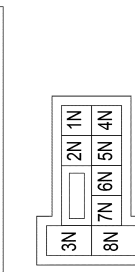
Terminal No.	Color of Wire	Signal Name
7P	BG	-

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17G	L	-
18G	P	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7N	BR	-

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DRIVE MODE SELECTOR

< WIRING DIAGRAM >

[DRIVE MODE SELECTOR]

Connector No.	M175
Connector Name	JOINT CONNECTOR-M06
Connector Type	TK04FW-J
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

Connector No.	M176
Connector Name	JOINT CONNECTOR-M05
Connector Type	TK04FW-J
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	M177
Connector Name	JOINT CONNECTOR-M04
Connector Type	TK04FW-J
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

11	G	STD. MODE SW
21	P	CAN-L
22	B	P-GND
23	BG	IGN
31	R	SPORT MODE SW
33	W	SPORT MODE INDI
36	BG	STD. MODE INDI

Connector No.	M95
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name
11	P	-
19	W	-
20	BG	-
21	R	-
22	G	-
23	B	-

Connector No.	M174
Connector Name	JOINT CONNECTOR-M07
Connector Type	TK04FW-J
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK



60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H

Connector No.	M23
Connector Name	COMBINATION METER
Connector Type	TH16FW-NH
Connector Color	WHITE



41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56

Terminal No.	Color of Wire	Signal Name
52	P	CAN-L
53	L	CAN-H

Connector No.	M37
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	GND
3	G	BATT

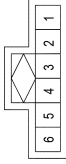
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DRIVE MODE SELECTOR

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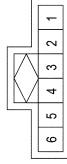
[DRIVE MODE SELECTOR]

Connector No.	E66
Connector Name	JOINT CONNECTOR-E02
Connector Type	A06FGY
Connector Color	GRAY



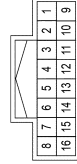
Terminal No.	Color of Wire	Signal Name
1	L	-
4	L	-

Connector No.	E67
Connector Name	JOINT CONNECTOR-E03
Connector Type	A06FGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
4	P	-

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE



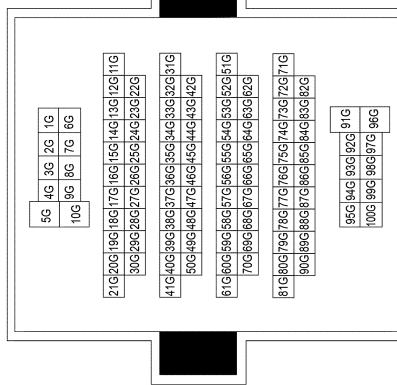
Terminal No.	Color of Wire	Signal Name
9	P	-
10	L	-

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	P	-
10	L	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17G	L	-
18G	P	-

Connector No.	M250
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	P	-
19	W	-
20	BG	-
21	P	-
22	G	-
23	B	-

Connector No.	M264
Connector Name	DRIVE MODE SELECTOR
Connector Type	TH12FGY-NH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	-
2	R	-
4	BG	-
5	P	-
6	GR	-
8	G	-
9	P	-
12	B	-

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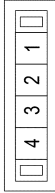
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DRIVE MODE SELECTOR

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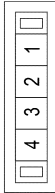
[DRIVE MODE SELECTOR]

Connector No.	B85
Connector Name	JOINT CONNECTOR-B10
Connector Type	TK04FW-J
Connector Color	WHITE



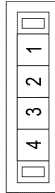
Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

Connector No.	B82
Connector Name	JOINT CONNECTOR-B07
Connector Type	TK04FW-J
Connector Color	WHITE



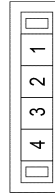
Terminal No.	Color of Wire	Signal Name
3	L	-
4	L	-

Connector No.	B83
Connector Name	JOINT CONNECTOR-B08
Connector Type	TK04FW-J
Connector Color	WHITE



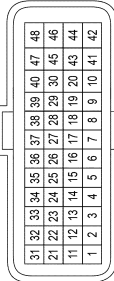
Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	B84
Connector Name	JOINT CONNECTOR-B09
Connector Type	TK04FW-J
Connector Color	WHITE



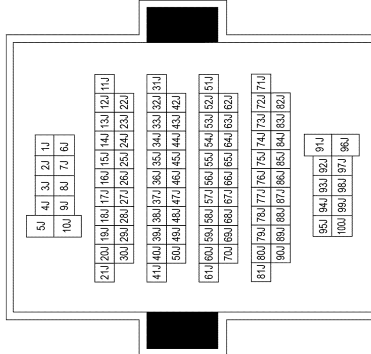
Terminal No.	Color of Wire	Signal Name
3	P	-
4	P	-

Connector No.	F89
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	RH40FB-RZ8-L-RH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
23	P	CAN-L
33	L	CAN-H

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
51J	P	-
52J	P	-
53J	L	-
54J	L	-

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[DRIVE MODE SELECTOR]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011972848

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurs.

>> GO TO 2.

2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check if any other malfunctions are present.

>> GO TO 3.

3.DTC/SYSTEM DIGANOSIS

Perform a DTC/system diagnosis and repair or replace any malfunctioning part.

>> GO TO 4.

4.FINAL CHECK

Check that the drive mode functions normally.

Does it operation normally?

- YES >> End of trouble diagnosis
- NO >> GO TO 2.

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DMS

DRIVE MODE SELECTOR CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVE MODE SELECTOR]

DTC/CIRCUIT DIAGNOSIS

DRIVE MODE SELECTOR CIRCUIT

Component Function Check

INFOID:0000000011972849

1. CHECK DRIVE MODE SELECTOR (SPORT) OPERATION

1. Turn ignition switch ON.
2. Check drive mode indicator (SPORT) turns ON/OFF on combination meter when press sport or normal mode switch ON/OFF.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Proceed to [DMS-16. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011972850

1. TCM INPUT SIGNAL

1. Turn ignition switch ON.
2. Select the "Data Monitor" for the "TRANSMISSION" and check the "DRIVE MODE STATS" monitor value.

Condition	Value
Drive mode selector: SPORT switch ON	SPORT
Drive mode selector: Normal switch ON	NORMAL

Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 2.

2. CHECK DRIVE MODE SELECTOR CIRCUIT

1. Check voltage between A/C auto amp. harness connector terminals.

A/C auto amp.		-	Condition	Voltage (Approx.)
Connector	+ Terminal			
M37	11	Ground	Drive mode selector: Normal switch ON	0 V
			Drive mode selector: Normal switch OFF	12 V
	31		Drive mode selector: SPORT switch ON	0 V
			Drive mode selector: SPORT switch OFF	12 V

Is the inspection result normal?

- YES >> Replace TCM. Refer to [TM-191. "Removal and Installation"](#).
NO >> GO TO 3.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect drive mode selector connector.
3. Check the continuity between drive mode selector harness connector and ground.

Drive mode selector		—	Continuity
Connector	Terminal		
M264	12	Ground	Existed

DRIVE MODE SELECTOR CIRCUIT

[DRIVE MODE SELECTOR]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace damaged parts.

4.CHECK CIRCUIT BETWEEN A/C AUTO AMP. AND DRIVE MODE SELECTOR (1)

1. Disconnect A/C auto amp. connector.
2. Check continuity between A/C auto amp. harness connector terminals and drive mode selector harness connector terminals.

A/C auto amp.		Drive mode selector		Continuity
Connector	Terminal	Connector	Terminal	
M37	11	M264	8	Existed
	31		9	

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace damaged parts.

5.CHECK CIRCUIT BETWEEN A/C AUTO AMP. AND DRIVE MODE SELECTOR (2)

Check continuity between A/C auto amp. harness connector terminal and ground.

A/C auto amp.		—	Continuity
Connector	Terminal		
M37	11	Ground	Not existed
	31		

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace damaged parts.

6.CHECK DRIVE MODE SELECTOR

Check drive mode selector. Refer to [DMS-17, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace A/C auto amp. Refer to [HAC-102, "Removal and Installation"](#).
- NO >> Replace drive mode selector. Refer to [DMS-20, "Removal and Installation"](#).

7.COMBINATION METER INPUT SIGNAL

Select the "Data Monitor" for the "METER/M&A" and check the "SPORT IND" monitor value.

Condition	Value
Drive mode selector: SPORT switch ON	ON
Drive mode selector: Normal switch ON	OFF

Is the inspection result normal?

- YES >> Replace TCM. Refer to [TM-191, "Removal and Installation"](#).
- NO >> Replace combination meter. Refer to [MWI-68, "Removal and Installation"](#).

Component Inspection

INFOID:000000011972851

1.CHECK DRIVE MODE SELECTOR

Check continuity between drive mode selector connector terminals.

A
B
C
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G
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K
L
M
N
P

DMS

DRIVE MODE SELECTOR CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[DRIVE MODE SELECTOR]

Drive mode selector Terminal	Condition	Continuity
9 – 12	SPORT switch ON	Existed
	SPORT switch OFF	Not existed
8 – 12	Normal switch ON	Existed
	Normal switch OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace drive mode selector. Refer to [DMS-20, "Removal and Installation"](#).

DRIVE MODE INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[DRIVE MODE SELECTOR]

SYMPTOM DIAGNOSIS

DRIVE MODE INDICATOR DOES NOT TURN ON

Description

INFOID:0000000011972852

The drive mode indicator (SPORT mode indicator) does not turn ON when the drive mode selector (SPORT switch) is operated.

Diagnosis Procedure

INFOID:0000000011972853

1. CHECK DTC (TCM)

With CONSULT

1. Start the engine.
2. Check "Self Diagnostic Results" in "TRANSMISSION".

Is any DTC detected?

- YES >> Check DTC detected item. Refer to [TM-58, "DTC Index"](#).
NO >> GO TO 2.

2. CHECK DTC (A/C AUTO AMP.)

With CONSULT

Check "Self Diagnostic Results" in "HVAC".

Is any DTC detected?

- YES >> Check DTC detected item. Refer to [HAC-33, "DTC Index"](#).
NO >> GO TO 3.

3. CHECK DTC (COMBINATION METER)

With CONSULT

Check "Self Diagnostic Results" in "METER/M&A".

Is any DTC detected?

- YES >> Check DTC detected item. Refer to [MWI-29, "DTC Index"](#).
NO >> GO TO 4.

4. CHECK DRIVE MODE SELECTOR CIRCUIT

Check drive mode selector circuit. Refer to [DMS-16, "Component Function Check"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace malfunctioning parts.

A
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DMS

REMOVAL AND INSTALLATION

DRIVE MODE SELECTOR

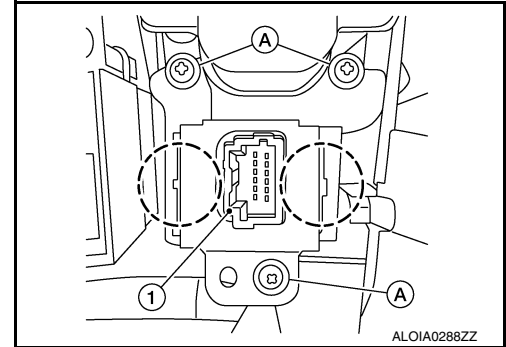
Removal and Installation

INFOID:000000011972854

REMOVAL

1. Remove center console finisher. Refer to [IP-20, "Removal and Installation"](#).
2. Remove screws (A) and release pawls using suitable tool. Remove drive mode selector (1) from center console finisher.

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.