Drive Shaft Installation Bolt : 44.3 N·m (4.5 kg-m, 33 ft-lb)

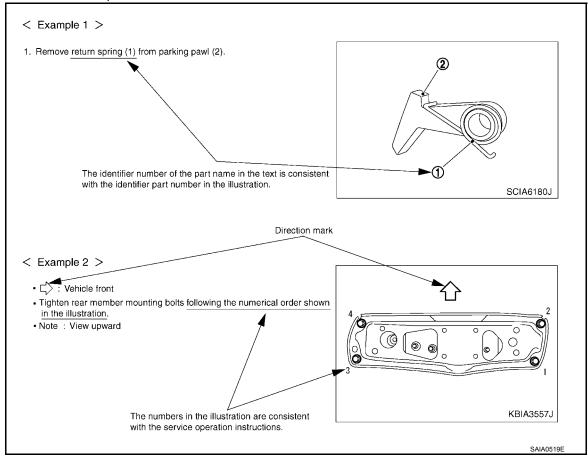
Contents

- A QUICK REFERENCE INDEX, a black tab (e.g.) is provided on the first page. You can quickly find the first page of each section by matching it to the section's black tab.
- THE CONTENTS are listed on the first page of each section.
- THE TITLE is indicated on the upper portion of each page and shows the part or system.
- THE PAGE NUMBER of each section consists of two or three letters which designate the particular section and a number (e.g. "BR-5").
- THE SMALL ILLUSTRATIONS show the important steps such as inspection, use of special tools, knacks of
 work and hidden or tricky steps which are not shown in the previous large illustrations.
 Assembly, inspection and adjustment procedures for the complicated units such as the automatic transaxle
 or transmission, etc. are presented in a step-by-step format where necessary.

Relation between Illustrations and Descriptions

INFOID:0000000014628253

The following sample explains the relationship between the part description in an illustration, the part name in the text and the service procedures.



Components

INFOID:0000000014628254

THE LARGE ILLUSTRATIONS are exploded views (see the following) and contain tightening torques, lubrication points, section number of the PARTS CATALOG (e.g. SEC. 440) and other information necessary to perform repairs.

The illustrations should be used in reference to service matters only. When ordering parts, refer to the appropriate **PARTS CATALOG**.

Components shown in an illustration may be identified by a circled number. When this style of illustration is used, the text description of the components will follow the illustration.

LIFTING POINT

Special Service Tool

INFOID:0000000014628276

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
LM4086-0200 (-) Board on attachment	S-NT001
LM4519-0000 (-) Safety stand attachment	S-NT002

CAUTION:

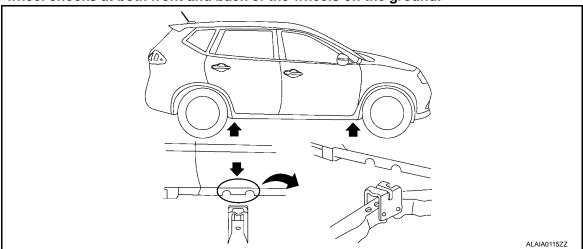
- Every time the vehicle is lifted up, maintain the complete vehicle curb condition.
- Since the vehicle's center of gravity changes when removing main parts on the front side (engine, transmission, suspension etc.), support a jack up point on the rear side garage jack with a transmission jack or equivalent.
- Since the vehicle's center of gravity changes when removing main parts on the rear side (rear axle, suspension, etc.), support a jack up point on the front side garage jack with a transmission jack or equivalent.
- Be careful not to smash or do anything that would affect piping parts.

Pantograph Jack

WARNING:

Never get under the vehicle while it is supported only by the jack. Always use safety stands to support the frame when you have to get under the vehicle.

Place wheel chocks at both front and back of the wheels on the ground.



P3112 STOP LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

P3112 STOP LAMP SWITCH

DTC Description

DTC DETECTION LOGIC

DTC	CONSULT screen terms (Trouble diagnosis content)	DTO	C detection condition
		Diagnosis condition	_
	STOP LAMP SWITCH	Signal (terminal)	Stop lamp switch signal
P3112	(Stop lamp switch)	Threshold	Stop lamp switch is ON state for extremely long time.
		Diagnosis delay time	_

POSSIBLE CAUSE

- · Harness or connectors (Stop lamp switch circuit is shorted.)
- Stop lamp switch

FAIL-SAFE

Not applicable

DTC CONFIRMATION PROCEDURE

1. PERFORM COMPONENT FUNCTION CHECK

NOTE:

Use component function check to check the overall function of the stop lamp switch circuit. During this check, a DTC might not be confirmed.

(P)With CONSULT

- 1. Select "STOP LAMP SW" in "DATA MONITOR" mode of "EV/HEV" using CONSULT.
- 2. Check that monitor indication as per the following condition.

Monitor item	Cor	ndition	Indication
STOP LAMP	Brake pedal	Slightly depressed	On
SW	Brake pedal	Fully released	Off

Without CONSULT

- Turn ignition switch OFF.
- 2. Check for stop lamp illumination as per the following condition.

Brake pedal	Stop lamp
Fully released	Not illuminated
Slightly depressed	Illuminated

Is the inspection result normal?

YES >> Proceed to <u>HBC-253</u>, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-54, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

1. CHECK STOP LAMP SWITCH OPERATION

- Turn ignition switch OFF.
- 2. Check the stop lamp when depressing and releasing the brake pedal.

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U0101 LOST COMMUNICATION TCM

< DTC/CIRCUIT DIAGNOSIS >

U0101 LOST COMMUNICATION TCM

INFOID:0000000014844898

DTC DETECTION LOGIC

DTC Description

DTC	Trouble diagnosis (Trouble diagnosis con- tents)		Detecting condition
	LOST COMMUNICATION	Diagnosis condition	When ignition switch is ON
110404	TCM	Signal (terminal)	CAN communication signal
U0101	(Lost communication trans-	Threshold	LBC cannot receive a CAN communication signal from TCM
	mission control module)	Diagnosis delay time	2 seconds or more

POSSIBLE CAUSES

Harness or connector

(CAN communication line open or short)

FAIL-SAFE

WARNING LAMP ON (P3180 is detected in HPCM)

Illuminate hybrid system warning lamp

DTC CONFIRMATION PROCEDURE

PREPARATION BEFORE STARTING OPERATIONS

If other DTC confirmation procedure is performed immediately before this procedure, turn the ignition switch OFF and wait at least 10 seconds to start the next test.

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

(P)WITH CONSULT

- Perform work procedure (inspection mode 5). Refer to HBC-115, "Work Procedure (Inspection Mode 5)".
- Start the engine and wait for 5 seconds or more.
- Perform "All DTC Reading" with CONSULT.
- 4. Check if the DTC is detected in "Self Diagnostic Result" of "MOTOR CONTROL".

Is U0100, U0101, U0111 or U0293 detected?

YES >> GO TO 3.

NO-1 >> DTC U0100, U0101, U0111 or U0293 is stored in "Motor Control" at the time of receiving: GO TO

NO-2 >> Confirmation after repair: INSPECTION END

3.PERFORM CAN DIAGNOSIS

(P)WITH CONSULT

- Perform "CAN DIAGNOSIS"
- Check diagnosis result.

>> Refer to HBB-137, "Diagnosis Procedure".

Diagnosis Procedure

CAUTION:

- To perform diagnosis, observe the cautions in performing diagnoses. Refer to <u>LAN-32, "Precautions</u> for Trouble Diagnosis".
- To repair harnesses, observe the cautions in repairing harnesses. Refer to LAN-32, "Precautions for Harness Repair".

1.START INSPECTION

HBB-137 Revision: December 2016 2017 Rogue HEV NAM HBB

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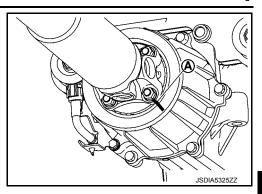
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REAR PROPELLER SHAFT

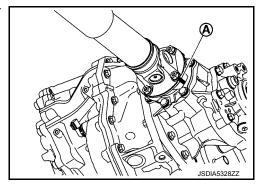
< REMOVAL AND INSTALLATION >

[REAR PROPELLER SHAFT: C-CVJ-C]

• Align matching marks (A) made during removal, install propeller shaft flange yoke and electric controlled coupling of final drive.



 Align matching marks (A) made during removal, to install propeller shaft flange yoke and transfer companion flange.

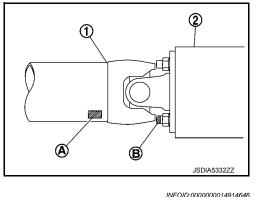


- If a new propeller shaft assembly, final drive assembly or electric controlled coupling has been installed, connect propeller shaft assembly and electric controlled coupling of final drive as follows:
- Install propeller shaft (1) while aligning its matching mark (A) of propeller shaft with matching mark (B) on stud bolt of electric controlled coupling (2) as close as possible.

CAUTION:

If a new stud bolt is installed, use the painted matching mark in removal as a guide.

Perform inspection after installation. Refer to <u>DLN-109</u>, "Inspection".



Inspection

INSPECTION AFTER REMOVAL

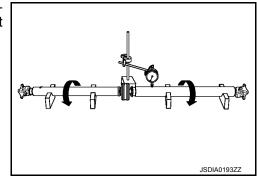
Appearance

Check propeller shaft tube surface for dents or cracks. If malfunction is detected, replace propeller shaft assembly.

Propeller Shaft Runout

Check propeller shaft runout at measuring points with a dial indicator. If runout exceeds specifications, install a new propeller shaft assembly.

Propeller shaft runout : Refer to <u>DLN-105, "Inspection".</u>



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[REAR FINAL DRIVE: R145]

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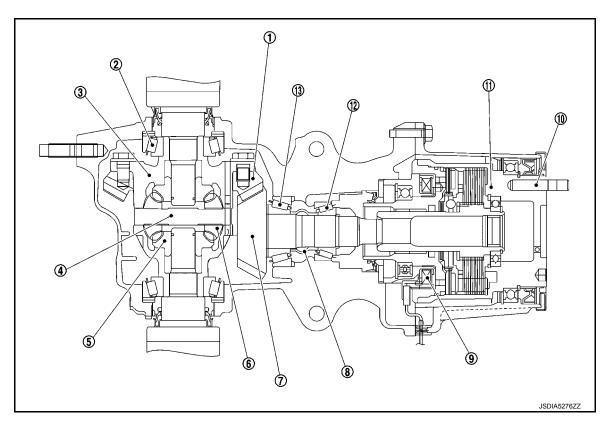
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SYSTEM DESCRIPTION

STRUCTURE AND OPERATION

Sectional View



- 1 Drive gear
- (4) Pinion mate shaft
- 7 Drive pinion
- 10 Stud bolt
- Pinion rear bearing

- Side bearing
- Side gear
- Collapsible spacer
- (1) Electric controlled coupling
- ③ Differential case
- 6) Pinion mate gear
- AWD solenoid
- Pinion front bearing

Electric Controlled Coupling

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The electric controlled coupling operates as the AWD system. For the operation, refer to <u>DLN-15</u>, "<u>Operation Description</u>".

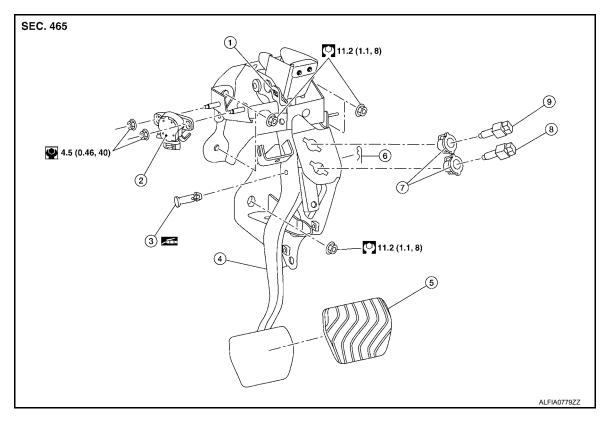
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REMOVAL AND INSTALLATION

BRAKE PEDAL

Exploded View



- 1. Rivet
- 4. Brake pedal
- 7. Clip

- 2. Brake stroke sensor
- 5. Brake pedal pad
- 8. Stop lamp switch

- 3. Clevis pin
- 6. Snap pin
- 9. Brake pedal position switch

Removal and Installation

REMOVAL

- 1. Remove instrument lower panel LH. Refer to IP-22, "Removal and Installation".
- Remove the knee protector. Refer to <u>IP-14, "Exploded View"</u>.
- 3. Remove snap pin and clevis pin from clevis of brake booster.
- 4. Disconnect the harness connectors from the stop lamp switch, brake pedal position switch and brake stroke sensor.
- 5. Remove the accelerator pedal. Refer to ACC-3, "Removal and Installation".
- 6. Remove the brake pedal.

CAUTION:

Support the brake booster and master cylinder to prevent contact with other components.

INSPECTION AFTER REMOVAL

- Check the following items and replace the brake pedal assembly if necessary.
- Check the brake pedal rivet for deformation or damage.
- Check the brake pedal for bend, damage, and cracks on the welded parts.

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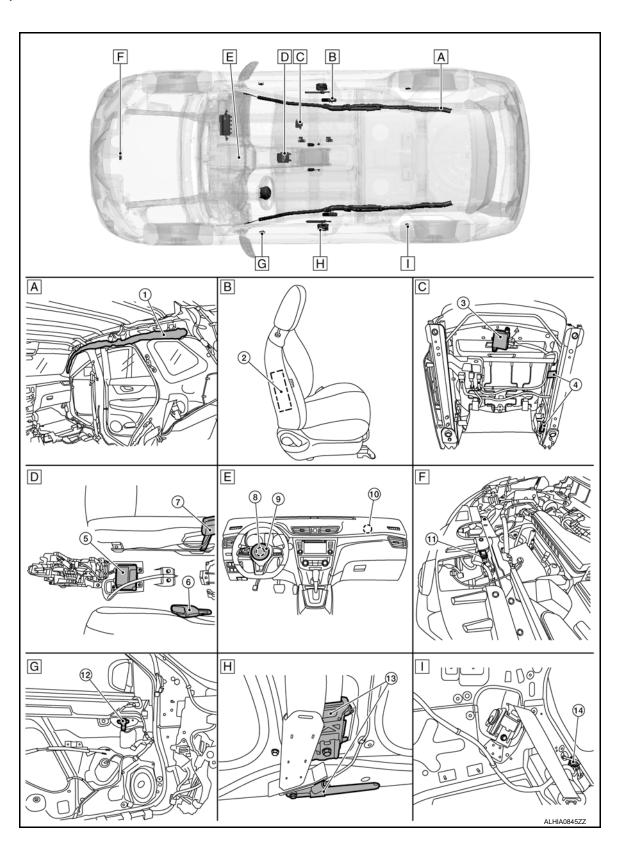
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



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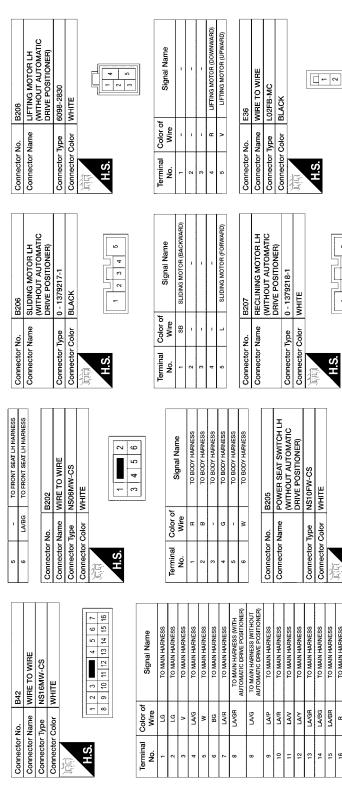
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POWER SEAT FOR DRIVER SIDE CONNECTORS - WITHOUT AUTOMATIC DRIVE POSITIONER



	Connector No.		B92	H.S.		3		_			Г
_	Connector Name	+	WIRE TO WIRE			10 9 8 7 6 5				Terminal No.	ਲੋ ≥
	Connector Type	Н	NS06FW-CS				Terminal	Color of	Signal Name	-	-
	Connector Color		WHITE				Q	Wire	2	2	
_	1			Terminal	Color of	:	-	BR	RECLINING MOTOR (BACKWARD)		_
				No.	Wire	Signal Name	2	-	_		
) II			-	,	1	8	1	1		
_	i Si		2 1	2		1	4	-	Ĩ		
			6 5 4 3	8	œ	BAT	O.	۵	RECLINING MOTOR (FORWARD)		
				4	В	GND					
				2	۵	RECLINER SW (FORWARD)					
				ď	SR	SI IDE SW (BACKWARD)					
	Terminal	Color of	Signal Name	2	-	SLIDE SW (FORWARD)					
AΑ	No.	Wire		8	œ	REAR LIFTER SW (DOWNWARD)					
JIA	-	LA/G	TO FRONT SEAT LH HARNESS	°	>	BEAR LIETER SW (LIPWARD)					
149	2	LA/B	TO FRONT SEAT LH HARNESS	۽ ،		BECLINEB SW (BACKWARD)					
)1G	3	-	TO FRONT SEAT LH HARNESS	2	5	(21323000) 100 1313000					
В	4	LA/BR	TO FRONT SEAT LH HARNESS								

TO MAIN HARNESS TO MAIN HARNESS Signal Name

olor of Wire

H.S.

2 3 4

WHITE

Connector Color

H.S.

TO MAIN HARNESS

LA/BG

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	BCM		Continuity
Connector	Terminal	Ground	Continuity
M1Q	M19 92		No
WITE	93		INU

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH harness connector and ground.

Front door loo	k assembly LH		Continuity
Connector	Terminal	Ground	Continuity
D23	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

f 4.CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-224, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-319</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-54, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000014910990

1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- Disconnect front door lock assembly LH connector.
- 3. Check continuity between front door lock assembly LH terminals.

Front door lock	•	Condition	on	Continuity
Term	inal			•
5			Unlock	Yes
3	4	Driver eide deer key eylinder	Neutral / Lock	No
6	4	Driver side door key cylinder	Lock	Yes
O			Neutral / Unlock	No

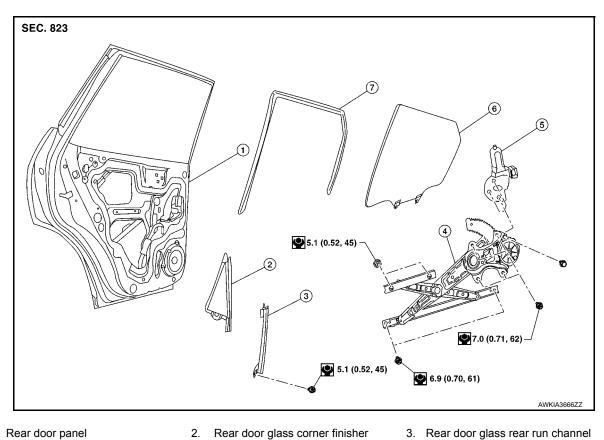
Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-319</u>, "<u>DOOR LOCK</u>: Removal and <u>Installation</u>".

REAR REGULATOR

Exploded View INFOID:0000000014625483



- 1. Rear door panel
- 4. Rear door regulator assembly
- 7. Rear door glass rubber run channel
- Rear door glass corner finisher

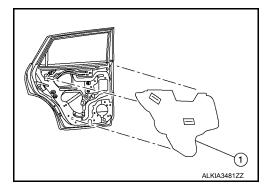
 - Rear door glass power window motor 6. Rear door glass

Removal and Installation

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REMOVAL

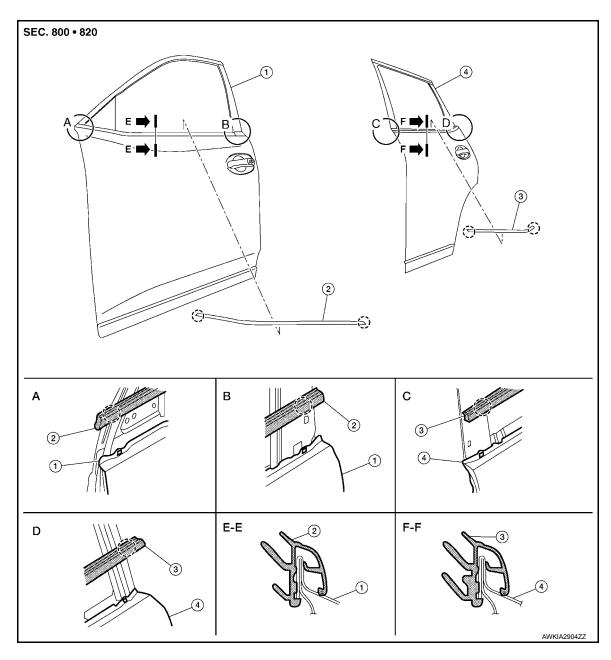
- Remove the rear door finisher. Refer to INT-18, "Removal and Installation".
- Remove rear door vapor barrier (1).



Temporarily reconnect the rear power window switch.

DOOR OUTSIDE MOLDING

Exploded View INFOID:0000000014625670



- 1. Front door panel
- Rear door outside molding
- 2. Front door outside molding

3. Rear door panel

Removal and Installation

FRONT DOOR OUTSIDE MOLDING

Removal

- Lower front door glass.
- Remove door mirror. Refer to MIR-23, "Removal and Installation".

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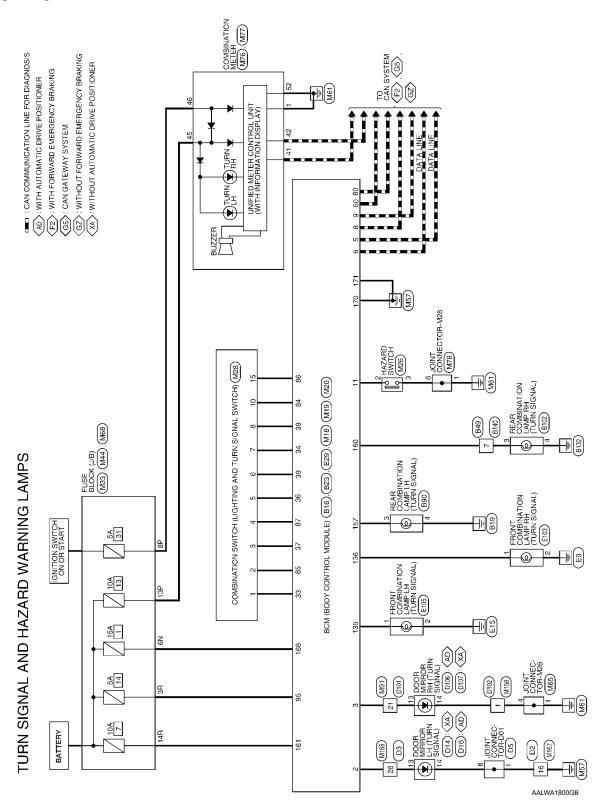
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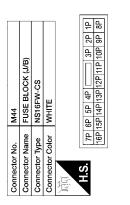
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram



REAR WIPER AND WASHER SYSTEM CONNECTORS



TO ENGINE ROOM HARNESS

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CONTROL	Color of Wire	Signal Name
	9	IGNITION
	γ	IGNITION RELAY-2 CONTROL
	ГС	REAR WINDOW DEFOGGER RELAY OUTPUT
	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
	LAVR	REAR WINDOW DEFOGGER RELAY CONTROL
	Y	IGNITION
	۸	IGNITION
	٦	BATTERY
	LG	IGNITION
	_	-
		-
	G	BATTERY
+	_	_
-	٦	BATTERY
	 LAW	FRONT BLOWER MOTOR RELAY CONTROL

No.	Wire	Signal Name
4	œ	IGNITION
2P	G	IGNITION
ЗБ	٨	IGNITION RELAY-2 CONTROL
4 P	PT	REAR WINDOW DEFOGGER RELAY OUTPUT
95 D	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
д9	LAVR	REAR WINDOW DEFOGGER RELAY CONTROL
42	>	IGNITION
8b	۸	IGNITION
д6	7	BATTERY
10P	PC	IGNITION
111	1	-
12P	-	_
13P	g	BATTERY
14P	-	_
15P	П	BATTERY
16P	W/V1	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE
9	
H.S.	3N 2N 1N
	8N 7N 6N 5N 4N

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W BB BB LG

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SB GR

Terminal No.	Color of Wire	Signal Name
Z.	-	ACCESSORY RELAY 1 OUTPUT
2N	PT	BATTERY
3N	>	FRONT BLOWER MOTOR RELAY OUTPUT
4N	9	ваттея
SN	œ	BATTERY
N9	BG	BATTERY
N/	BR BR	ACCESSORY RELAY-1 CONTROL
8N	SB	FRONT BLOWER MOTOR RELAY OUTPUT

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TO ENGINE POOM HARNESS
TO ENGINE ROOM HARNESS
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TO ENGINE ROOM HARNESS

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287	297	307	311	321	331	331		34.)	35.1	36J	37.1	381	39.1	401	41)	457	437	44J	45.1	46J	47.1	481	
FON	INC	WIRE TO WIRE	TH80MW-CS16-TM4	WHITE			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10, 9, 8, 7, 6,		210,200 199 180 177 163 159 149 133 123 113	300 (25) (25) (25) (25) (27) (27) (27)	410 400 399 380 370 360 350 340 330 320 310	501 493 483 473 463 453 443 433 423	61 J 601 564 564 577 564 554 534 523 513	70, 69, 68, 67, 66, 65, 64, 63, 62,	81,180,178,178,173,176,175,174,173,172,173	90, 89, 88, 87, 86, 83, 84, 83, 82,		963 943 933 923 943	1001 993 980 970 963			
of actornoo	CONTRACTOR INC.	Connector Name	Connector Type	Connector Color	ii.	F. 17	H.S.																

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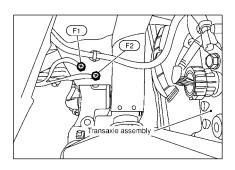
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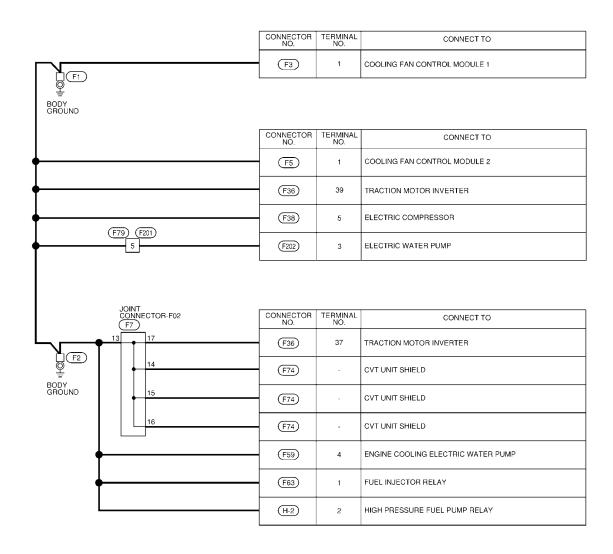
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491	201	917	527	537	54.1	921	26J	67.9	581	297	607	617	629	631	647	659	66.1	f29	681	P69	70N	LL/	727	73J	747	75.1	76J	L22	
	Signal Name	TO ENGINE ROOM HARNESS	TO ENGINE BOOM HABNESS	TO ENGINE BOOM HARNESS	TO ENGINE BOOM HABNESS	TO ENGINE BOOM HARNESS	TO FNGINE BOOM HABNESS	TO ENGINE BOOM HABNESS	TO ENGINE BOOM HABNESS	TO FNOINE BOOM HABNESS	TO ENGINE BOOM HABNESS	TO FAIGHT MOOD MADNESS	TO ENGINE HOOM INCHARGO	TO ENGINE DOOM HADNESS	I O ENGINE HOOM PARIAGOS														
Color of	Wire		~	1						W						1						1.4/1	SHIFLD	2	} >	. -	, E	5 4	5
Terminal	No.	2	73	ನ	4	52	69	72	8	76	5	11.	123	133	147	15.1	192	127	187	191	207	24.1	227	23.1	24.1	- 10	200	2007	7/7
					•			•	_					•									•	AΑ	LIA	61	15G	В	_

ENGINE CONTROL HARNESS





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