

BL

SECTION

BODY, LOCK & SECURITY SYSTEM

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Precautions

EIS005GH

- After installing removed lids or doors, be sure to adjust hinges and mount points so that lids or doors can open and close properly.
- Confirm parts for proper lubrication, damage or wear. Lubricate, repair or replace as necessary.

HOOD

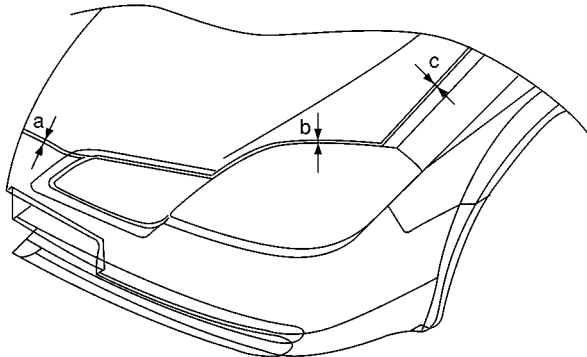
HOOD

PPF:65100

Fitting Adjustment

EIS005GI

SEC. 650



a: 6.0 ± 1.5 (0.236 ± 0.059)

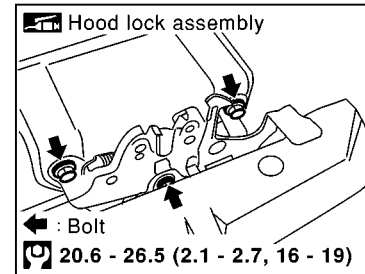
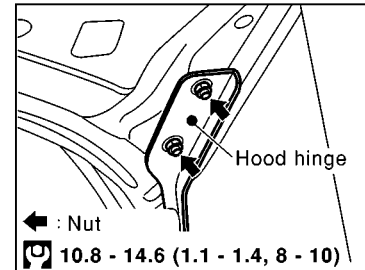
b: 5.0 ± 2.0 (0.197 ± 0.079)

c: 3.7 ± 1.0 (0.146 ± 0.039)

Unit: mm (in)

: Apply grease.

: N·m (kg-m, ft-lb)



SIIA0624E

FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDINAL CLEARANCE ADJUSTMENT

1. Remove hood lock. Rotate bumper rubber to adjust height until hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
2. Position hood lock and engage striker. Confirm hood lock and striker for looseness. Tighten lock mount bolts to the specified torque.

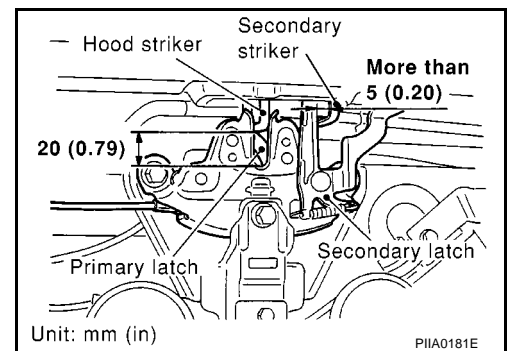
SURFACE HEIGHT ADJUSTMENT

1. Remove hood lock. Use bumper rubber (RH/LH) to make the hood and fender flush.
2. Position hood lock. Move hood lock to left or right until vertically centered on the striker.
3. Confirm secondary latch is securely engaged with secondary striker by releasing it from a height of approximately 200 mm (7.87 in) or by pressing it lightly approx.3kg (29 N).

NOTE:

Do not release hood from a height of 300 mm (11.81 in) or higher.

4. Move hood lock up and down until striker smoothly engages the lock when the hood is closed.
5. After adjustment, tighten lock mount bolts to the specified torque.



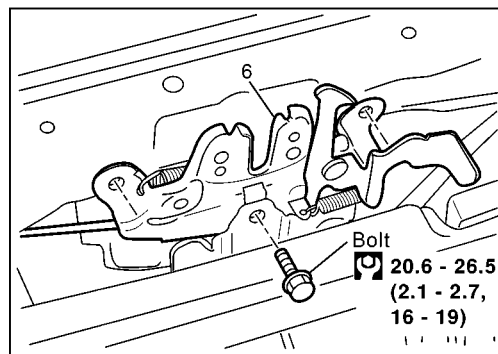
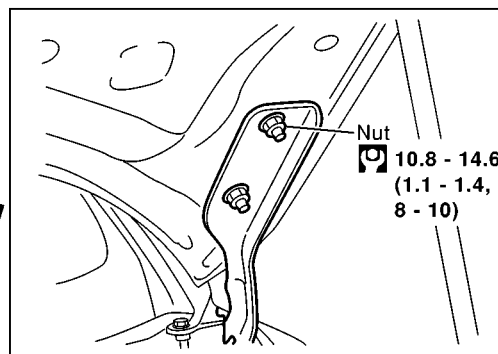
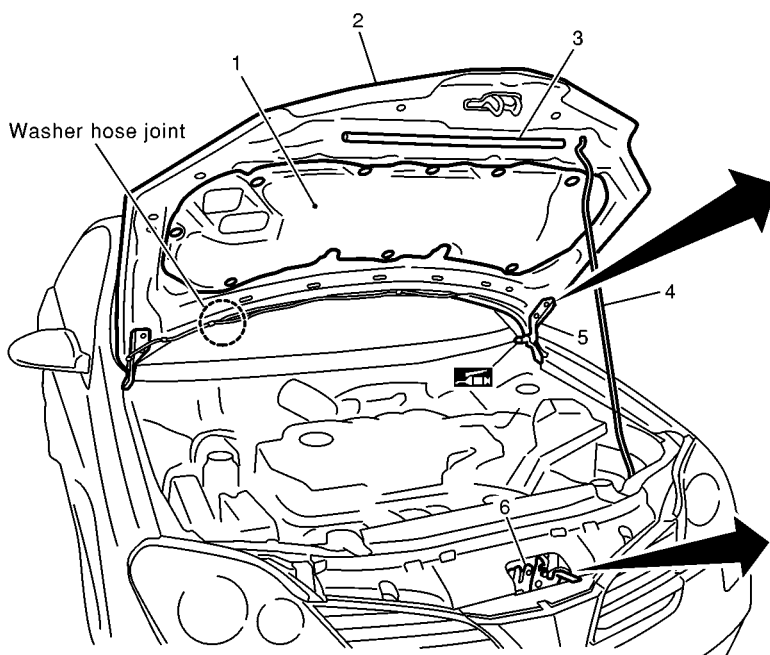
PIIA0181E

HOOD


Removal and Installation of Hood Assembly

EIS005GJ

SEC. 650



 : Apply grease.

 : N·m (kg-m, ft-lb)

SIIA0756E

1 : Hood insulator

2 : Hood assembly

3 : Radiator core support sealing rubber

4 : Hood stay

5 : Hood hinge

6 : Hood lock assembly

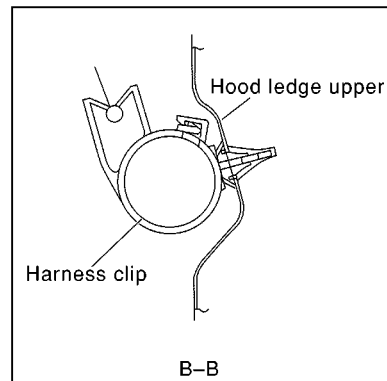
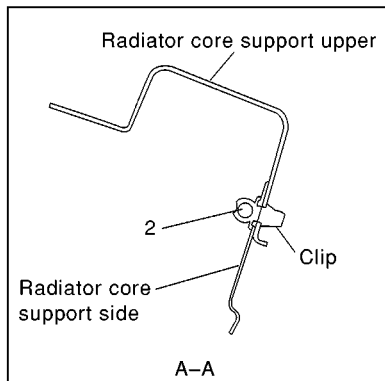
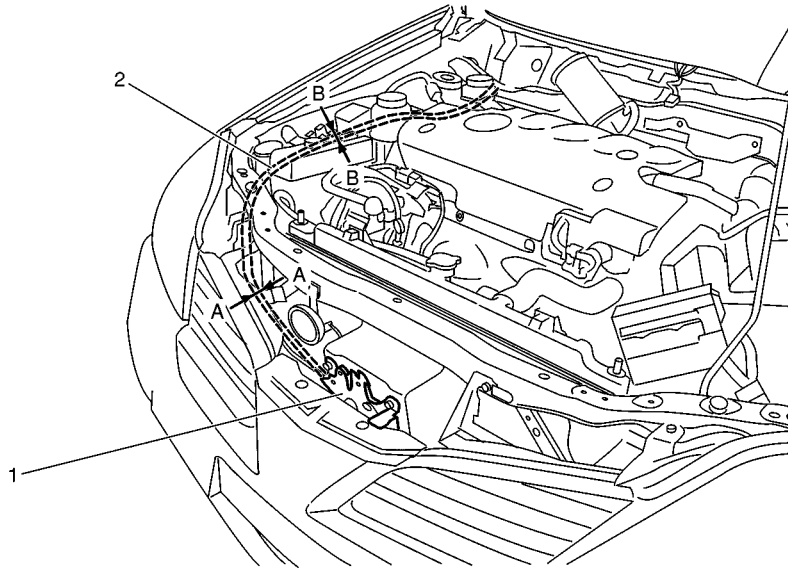
1. Disconnect washer hose at the connection.
 2. Remove hinge mount nuts on the hood and then the hood assembly.
- Install in the reverse order of removal.

HOOD

Removal and Installation of Hood Lock Control

EIS005GK

SEC. 656

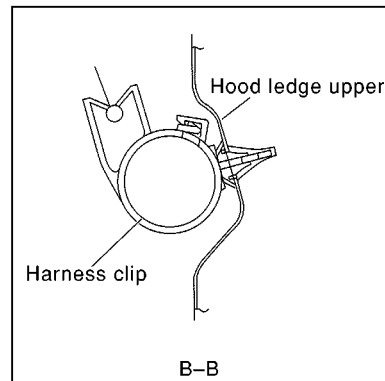
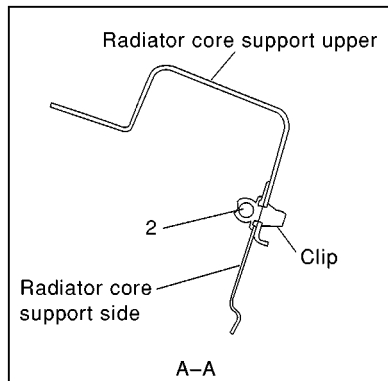
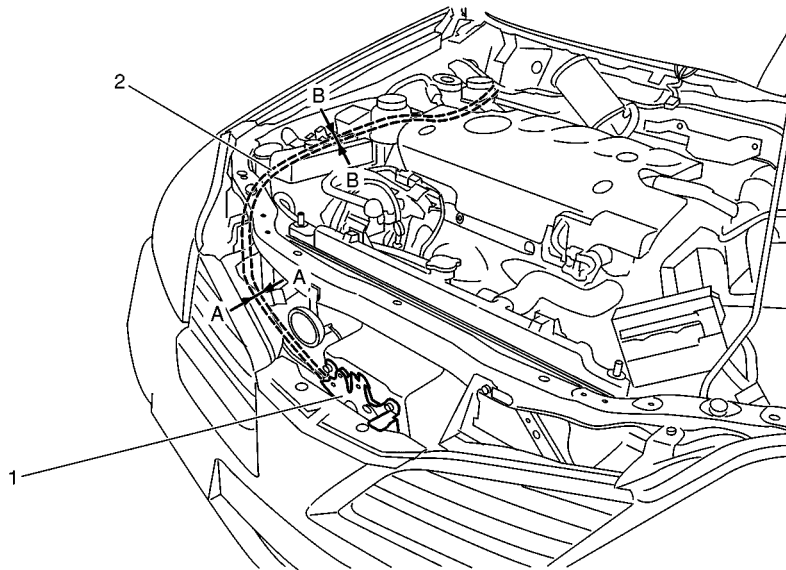


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HOOD

SEC. 656



SIIA0628E

1 : Hood lock assembly

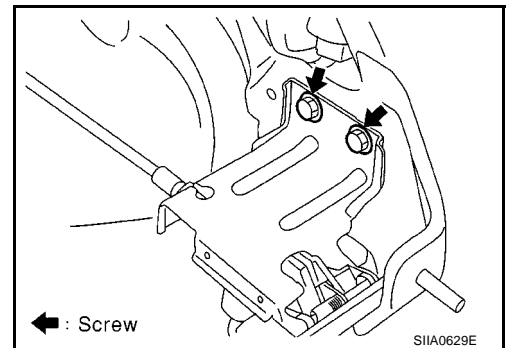
2 : Hood lock cable

REMOVAL

1. Remove hood lock cable and clip it from upper portion of radiator core support and hood ledge.
2. Remove dash side finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E). .
3. Remove attaching screw and then the hood opener.
4. Remove dash panel grommet and pull hood lock cable toward the passenger compartment.

NOTE:

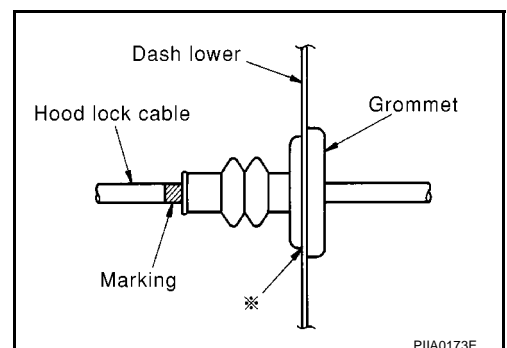
When pulling the cable, be careful not to strip or scratch the outer surface.



SIIA0629E

INSTALLATION

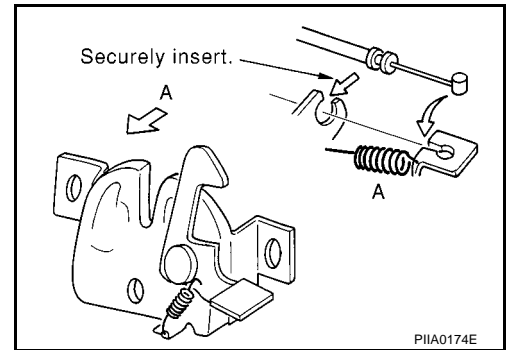
1. Pass hood lock cable through the opening while keeping the winding radius 100 mm (3.94 in) or larger.
2. After confirming that the grommet is properly positioned, push the grommet securely into the hole.
3. Apply sealant to the area on the grommet indicated with the * mark.



PIIA0173E

HOOD

4. Connect cable securely to the lock.
5. After connection, confirm proper adjustment and operation for both hood lock and hood opener.

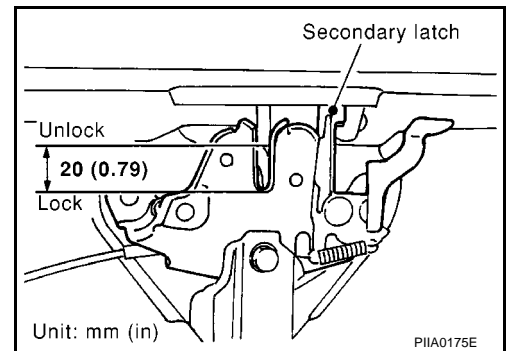


Hood Lock Control Inspection

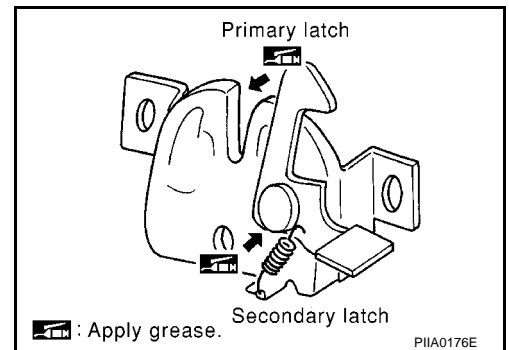
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Confirm hood lock secondary latch securely engages secondary striker by releasing it from a height of approximately 200 mm (7.87 in).
2. Confirm front end of the hood rises by approximately 20 mm (0.79 in) when pulling the hood opener. Also confirm hood opener returns to the original position.



3. Confirm hood lock has is properly lubricated. If necessary, apply "Grease" at the point shown in the figure.



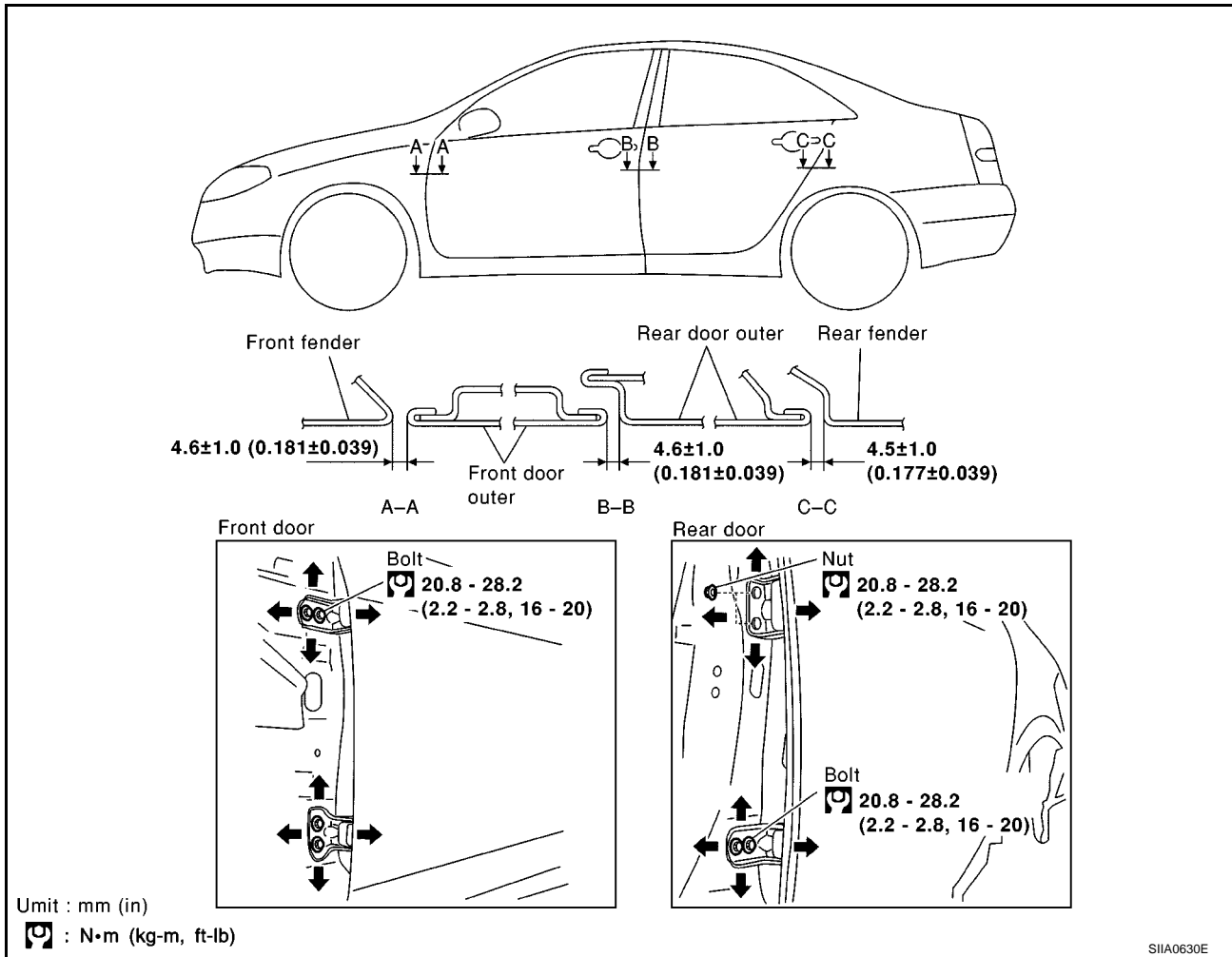
DOOR

DOOR

PFP:80100

Fitting Adjustment

EIS005GM



FRONT DOOR

Longitudinal Clearance and Surface Height Adjustment at Front End

1. Remove fender protector. Refer to the section in P12 ESM (SM2E00-1P12E0E) .
2. Working from the inside the fender, loosen hinge mount bolts on the body. Lift rear end of the front door to adjust clearance and surface difference properly.

REAR DOOR

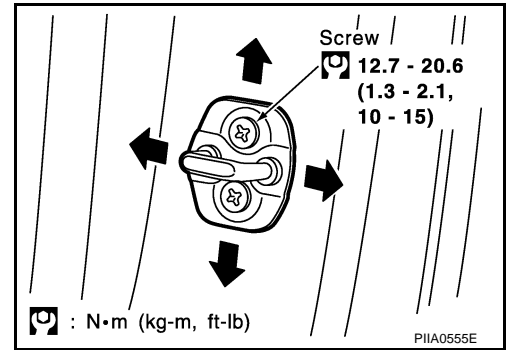
Longitudinal Clearance and Surface Height Adjustment at Front End

1. Remove upper and lower garnishes on the center pillar. Refer to the section in P12 ESM (SM2E00-1P12E0E).
2. Loosen mounting bolts from outside of vehicle, mounting nuts from inside of vehicle. Open rear door. Raise rear end of it to adjust.

DOOR

STRIKER ADJUSTMENT

Adjust striker until it is parallel to the lock engagement direction.



Removal and Installation

NOTE:

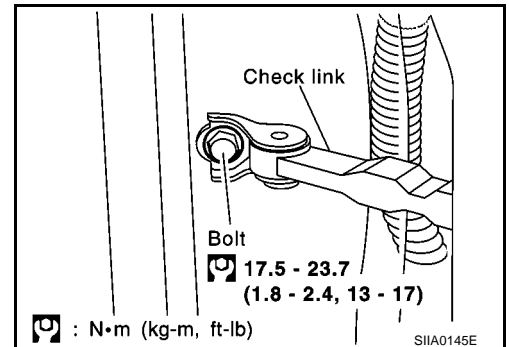
- During door assembly removal and installation, use a jack to support the door. Place shop cloths or something similar on the jack plate to protect the door and body from damage.
- After door assembly removal and installation, always adjust it so will open and close smoothly.
- Confirm the rotating part of the hinge has adequate lubrication. If necessary, apply Body Grease.

1. Remove door finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove sealing screen.

NOTE:

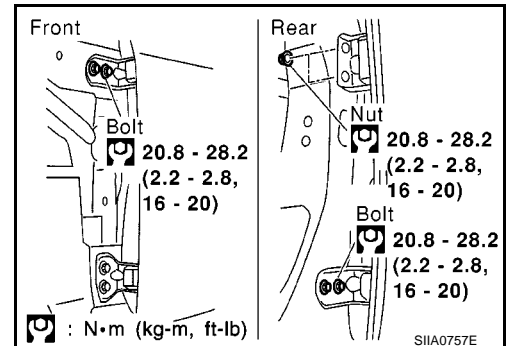
If sealing screen is reused, cut butyl tape in a way that leaves it on the sealing screen.

3. Remove door harness.
4. Remove check link mount bolts on the body.



5. Remove hinge mount nuts and bolts on the door and then the door assembly.

Install in the reverse order of removal.

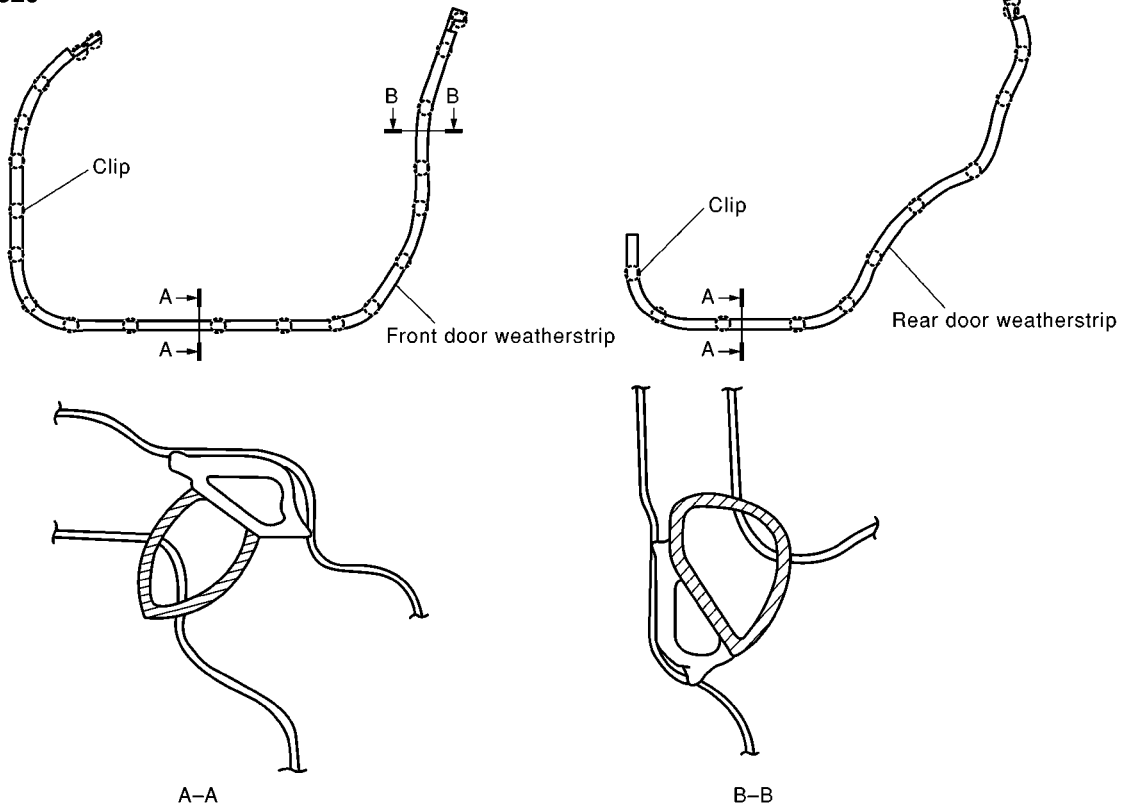


DOOR

Door Weather-strip SEDAN

EIS005GO

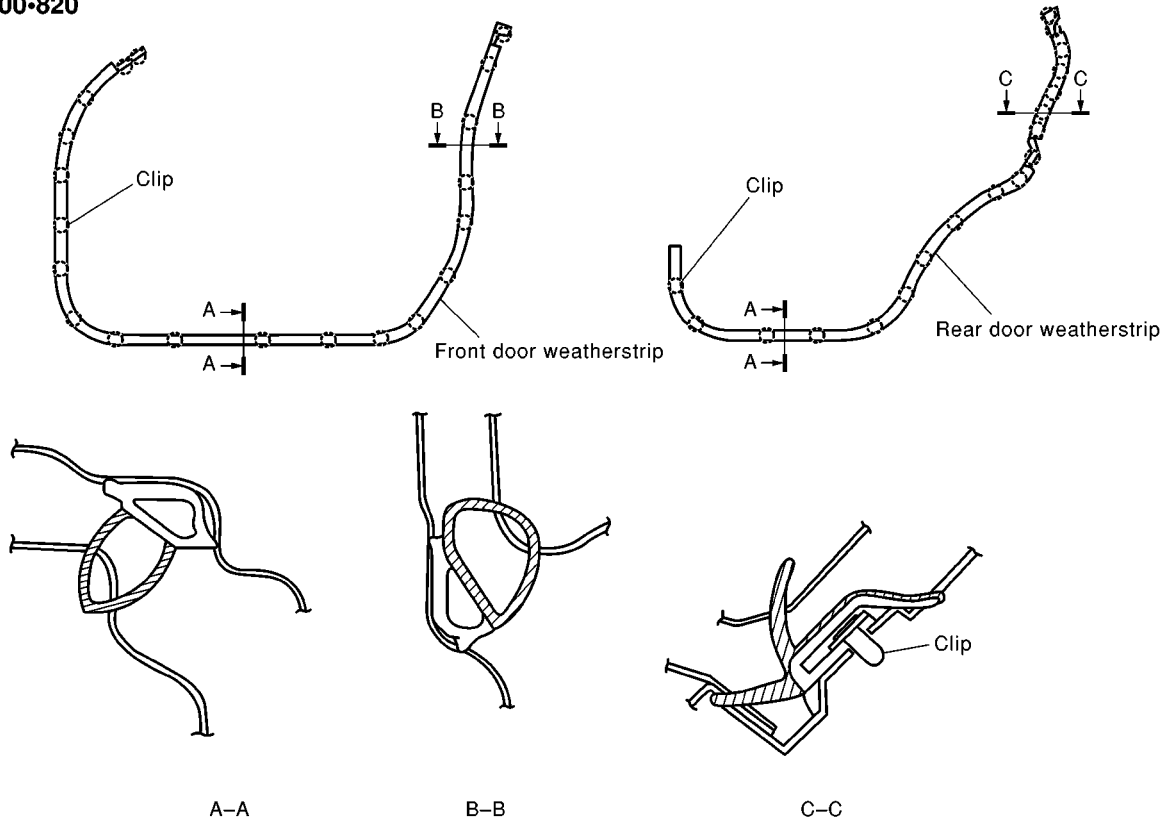
SEC. 800-820



SIIA0763E

WAGON

SEC. 800-820



SIIA0764E

POWER DOOR LOCK SYSTEM

PFP:24814

System Description
OPERATION

EIS005GP

Power is supplied at all times

- through 10A fuse (No.12, located in the fusible link and fuse box)
- to smart entrance control unit terminal 56, and
- to key switch terminal 1,
- through 40A fusible link (letter B, located in the fusible link and fuse box)
- to smart entrance control unit terminal 49.
- through 10A fuse (No. 3, located in the fusible link and fuse box)
- to trunk release actuator terminal 2 (for sedan models).
- to back door release actuator terminal 3 (except for sedan models).

Ground is supplied

- to smart entrance control unit terminal 53
- through body grounds M16, M50 and M70.

DOOR LOCK AND UNLOCK SWITCH OPERATION

When door lock/unlock switch is in LOCK position, ground is supplied

- to smart entrance control unit terminal 13
- through (door lock/unlock switch) terminal 1
- through (door lock/unlock switch) terminal 3
- through body grounds M16, M50 and M70.

With power and ground supplied, doors are locked.

When door lock/unlock switch is in UNLOCK position, ground is supplied

- to smart entrance control unit terminal 14
- through (door lock/unlock switch) terminal 2
- through (door lock/unlock switch) terminal 3
- through body grounds M16, M50 and M70.

With power and ground supplied, all doors are unlocked.

KEY REMINDER SYSTEM

- If the ignition key is in the ignition key cylinder and driver door is open, setting door lock/unlock switch, lock knob, key or remote controller to "LOCK" locks the door once but then immediately unlocks all doors.

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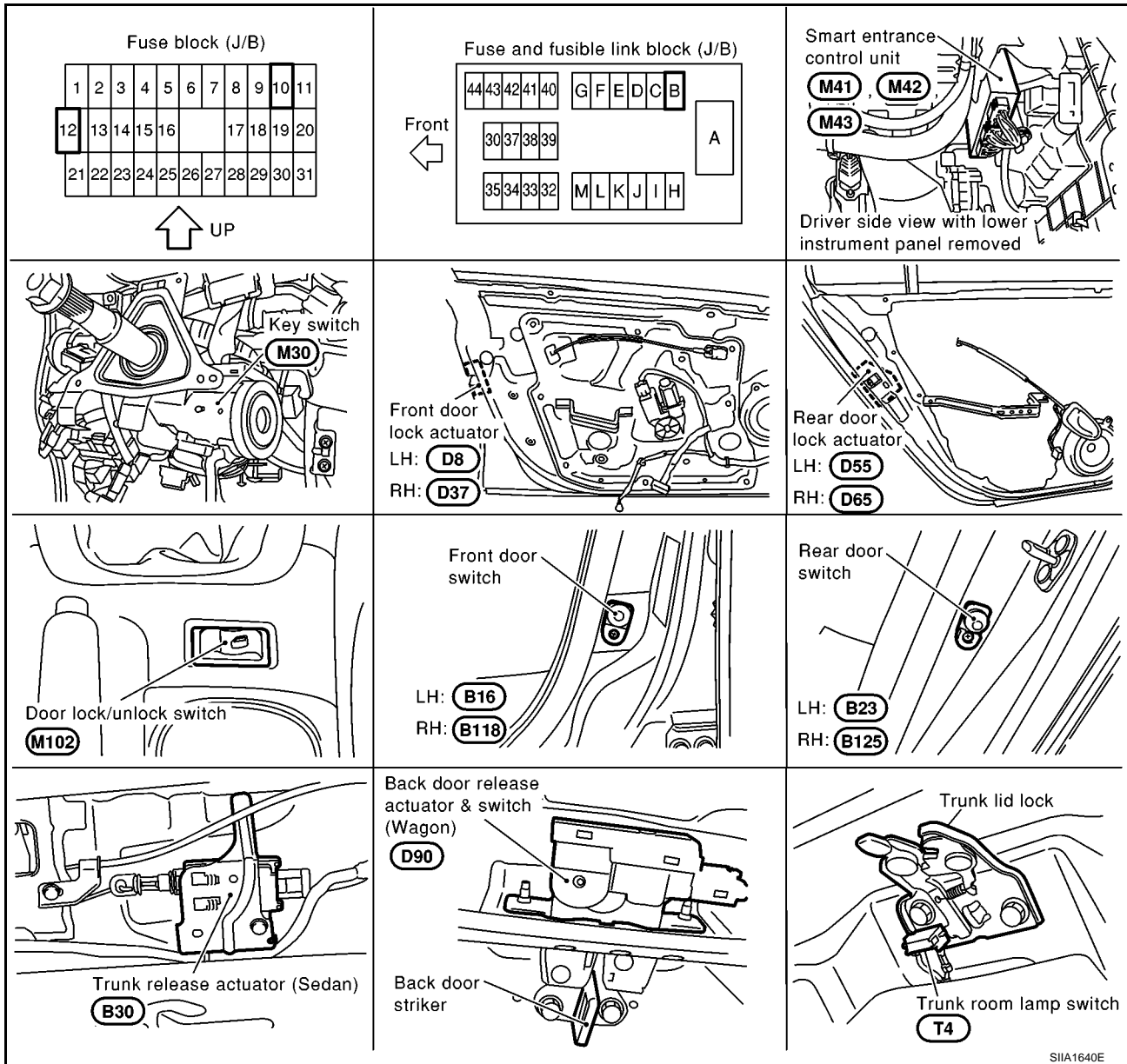
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M

POWER DOOR LOCK SYSTEM

Component Parts and Harness Connector Location

EIS005GQ

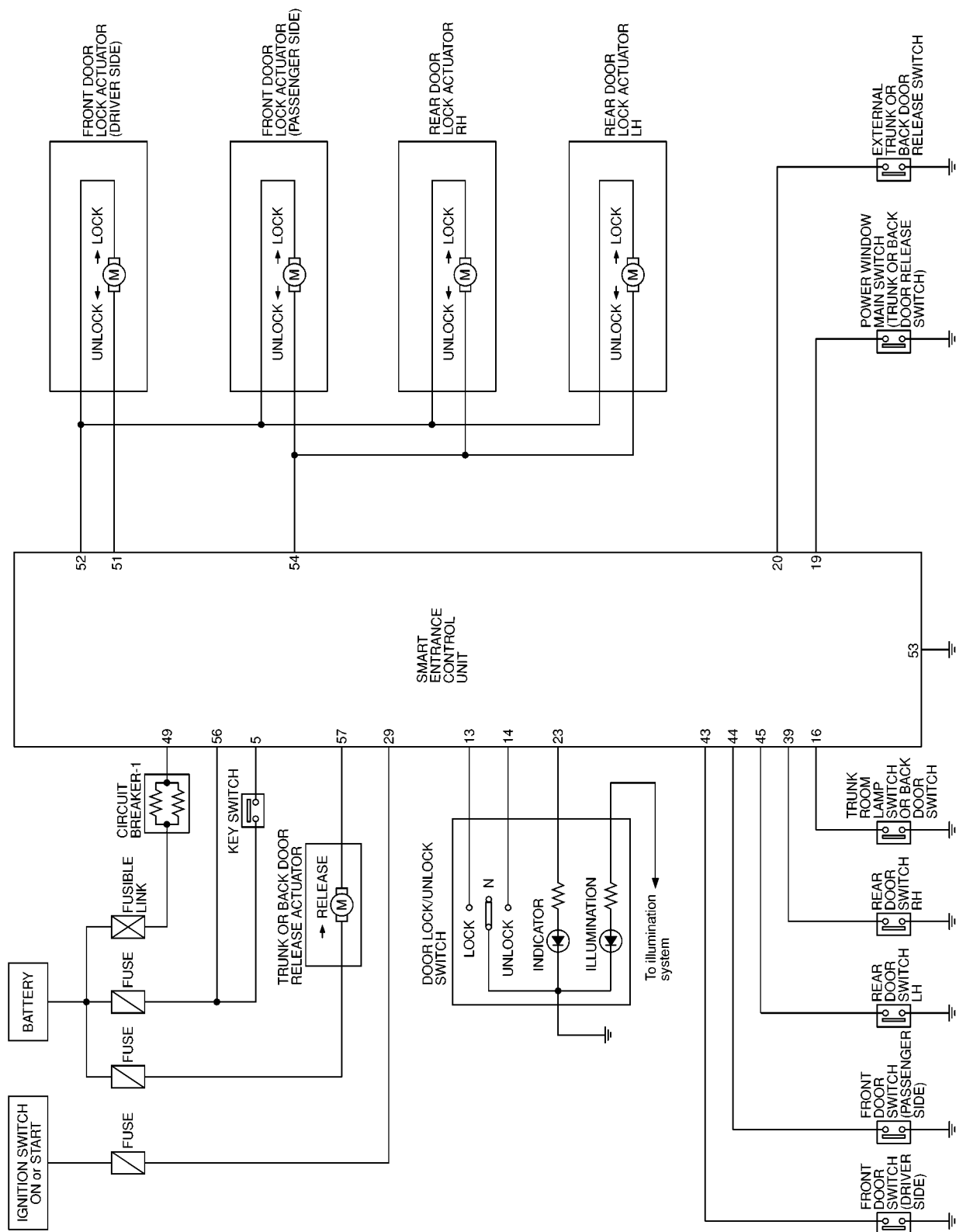


SI1A1640E

POWER DOOR LOCK SYSTEM

Schematic

EIS005GR



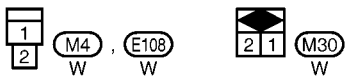
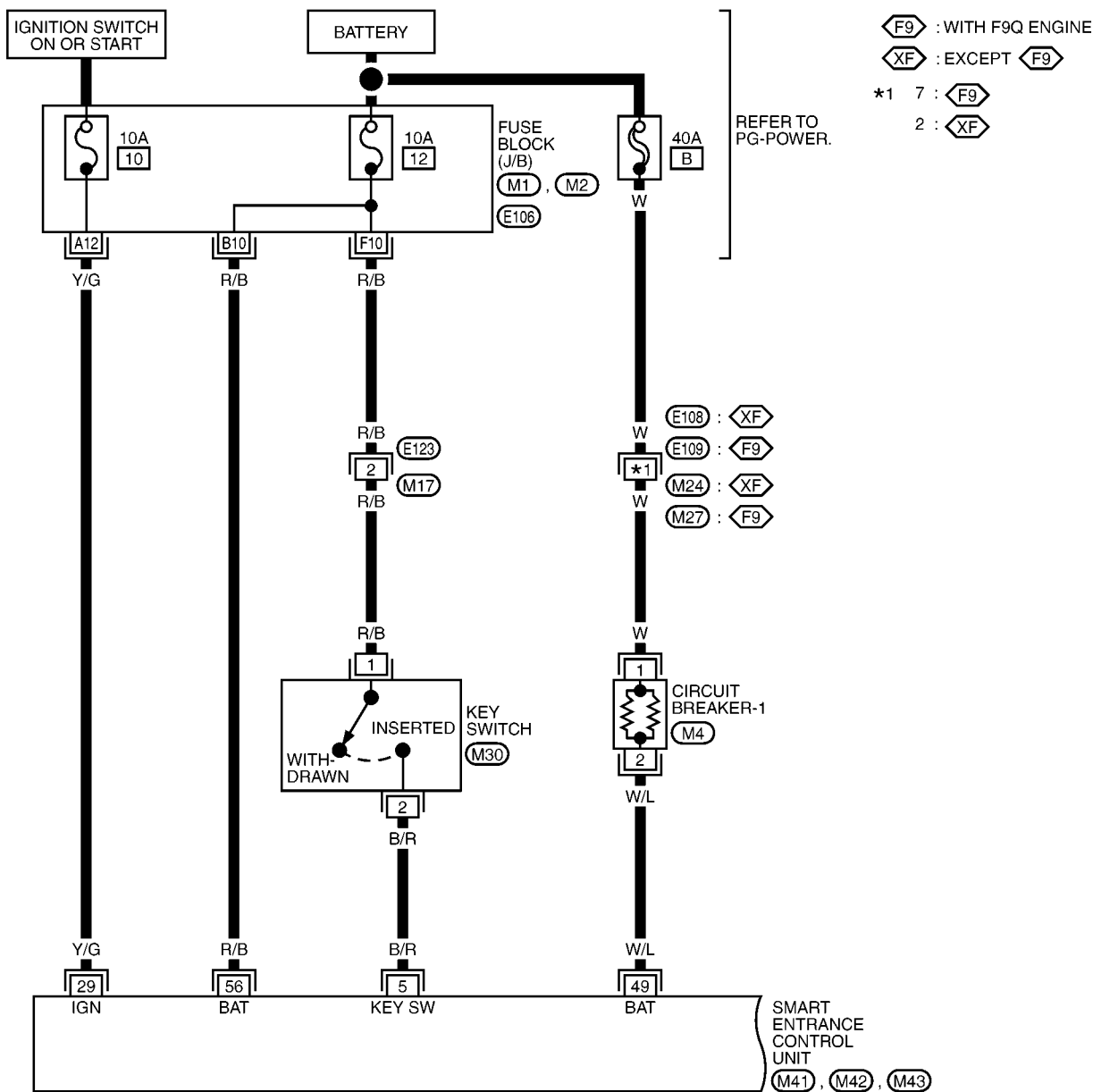
MKWA0094E

POWER DOOR LOCK SYSTEM

Wiring Diagram — D/LOCK —

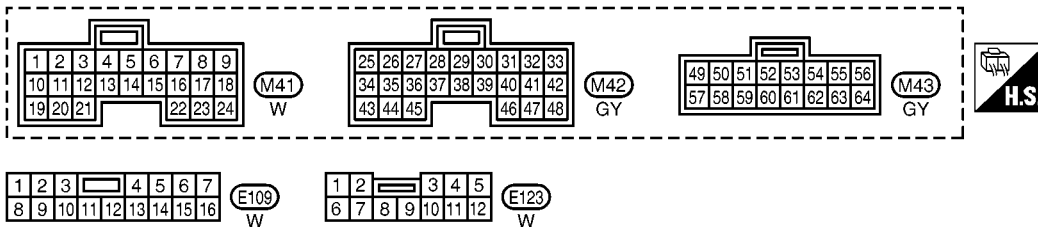
EIS005GS

BL-D/LOCK-01



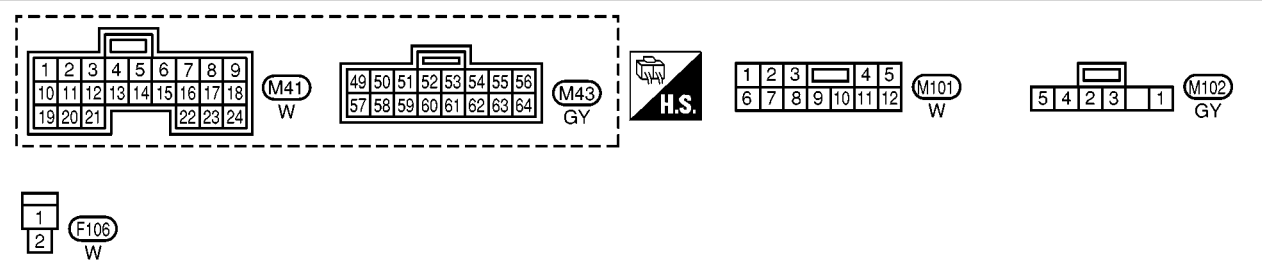
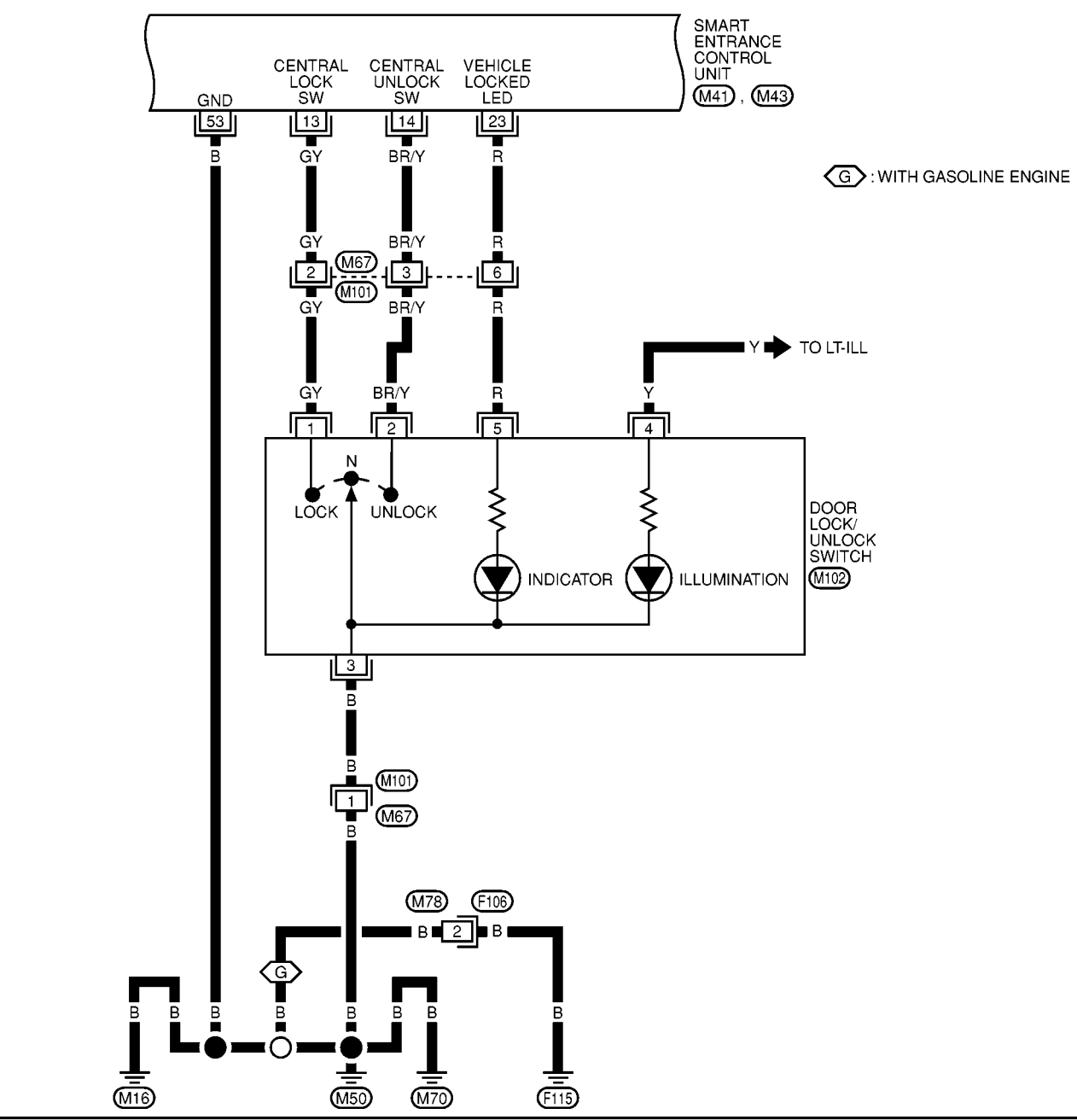
REFER TO THE FOLLOWING.

(M1), (M2), (E106)-FUSE BLOCK-
JUNCTION BOX (J/B)



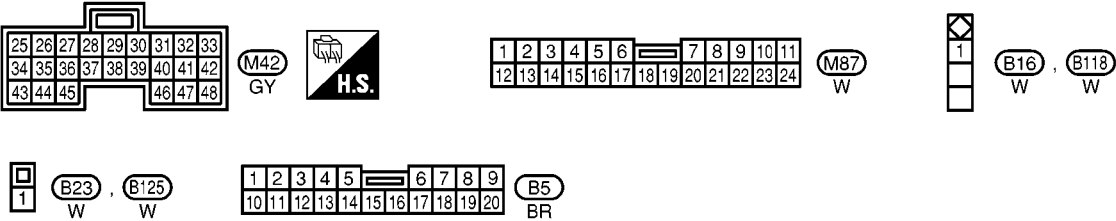
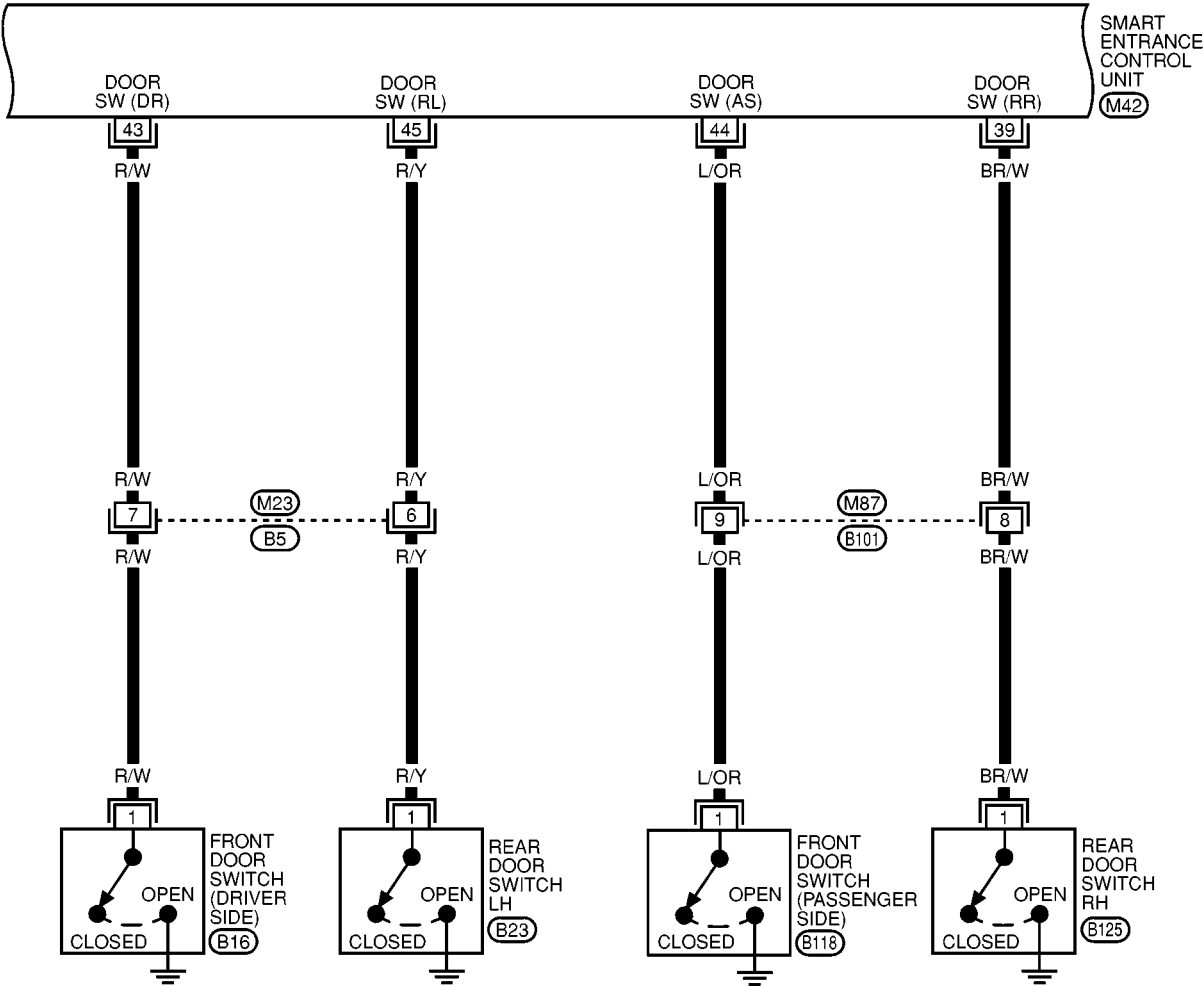
POWER DOOR LOCK SYSTEM

BL-D/LOCK-02



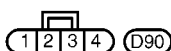
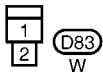
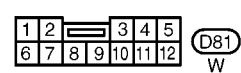
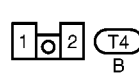
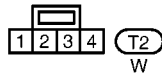
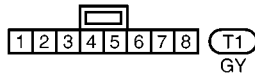
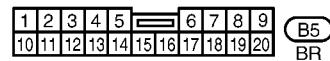
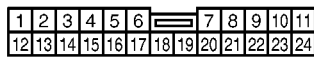
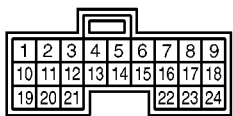
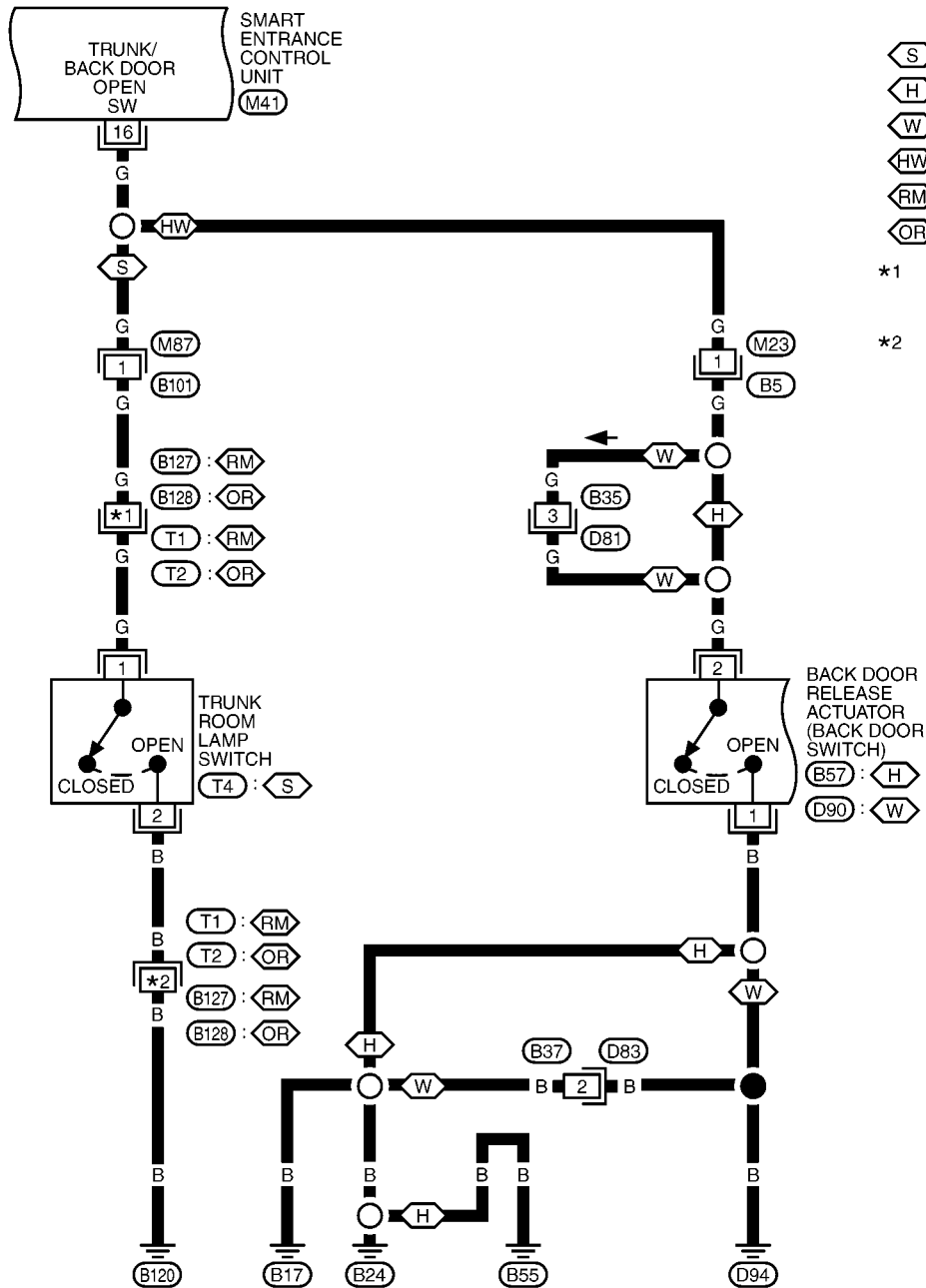
POWER DOOR LOCK SYSTEM

BL-D/LOCK-03



POWER DOOR LOCK SYSTEM

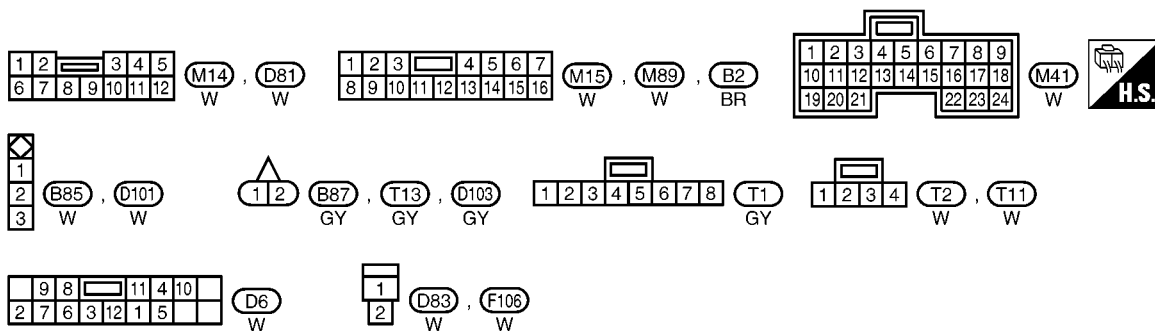
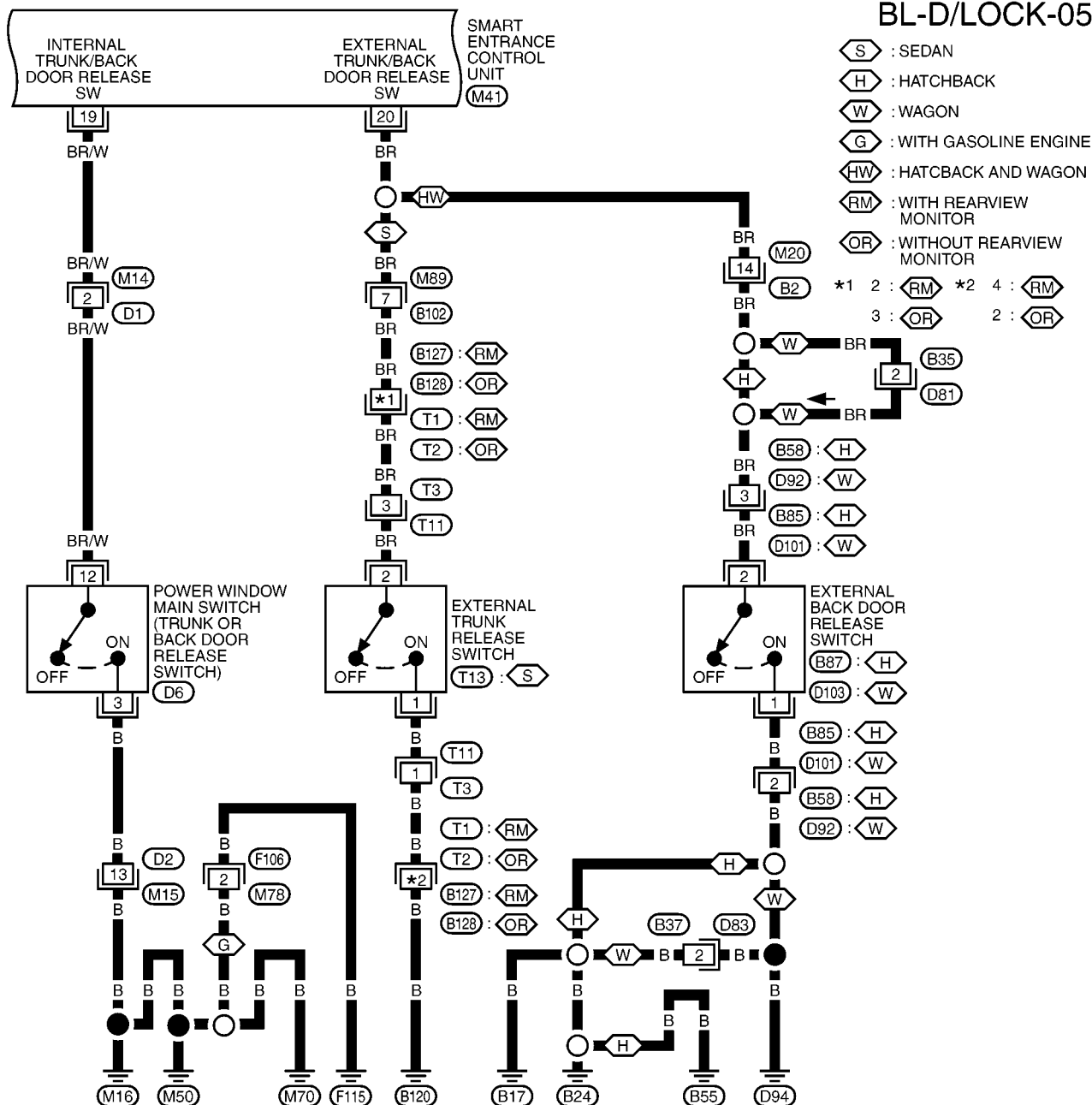
BL-D/LOCK-04



MKWA0950E

POWER DOOR LOCK SYSTEM

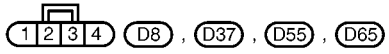
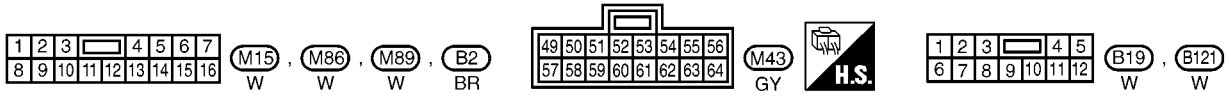
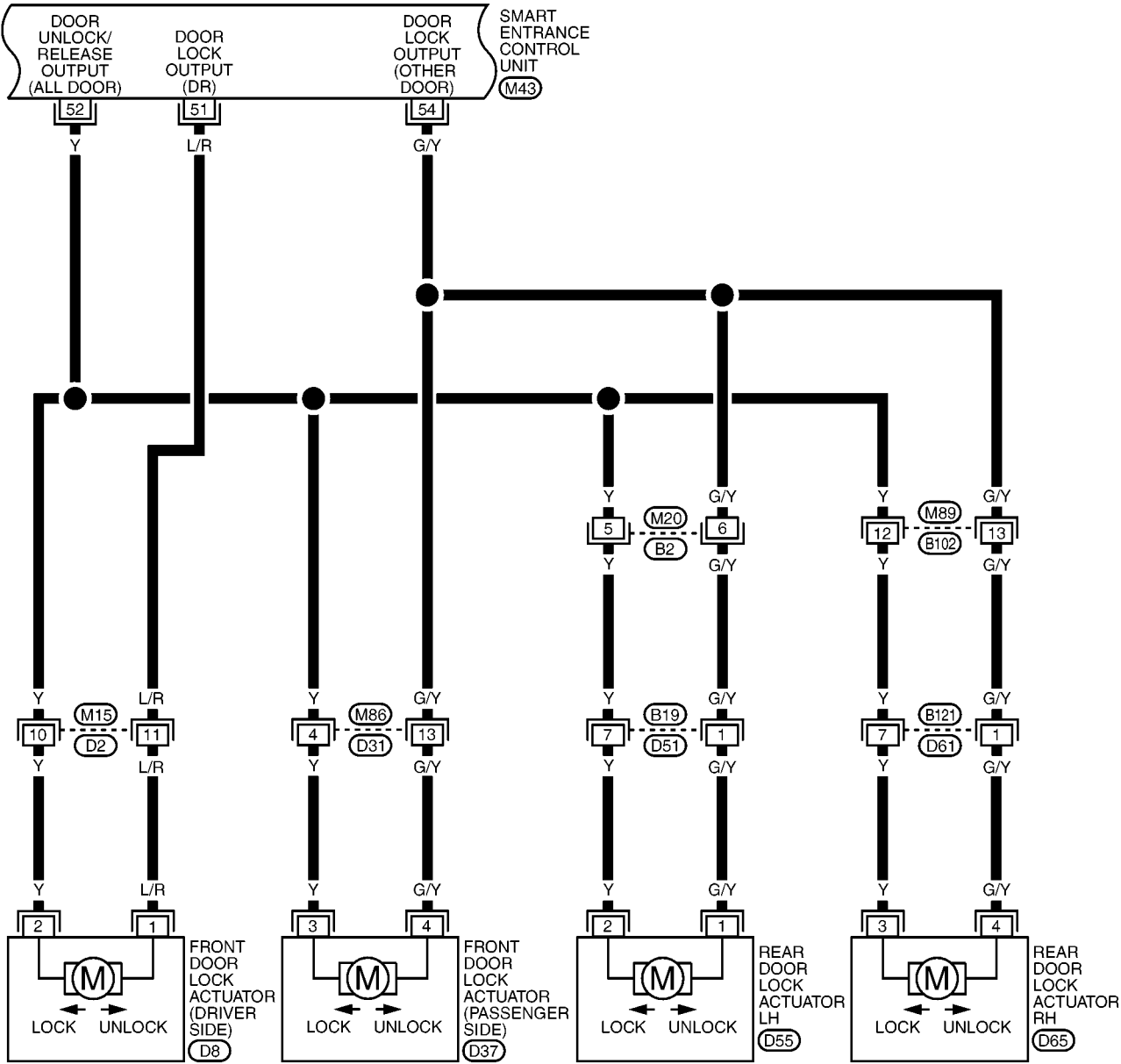
BL-D/LOCK-05



POWER DOOR LOCK SYSTEM

BL-D/LOCK-06

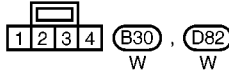
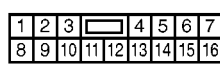
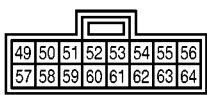
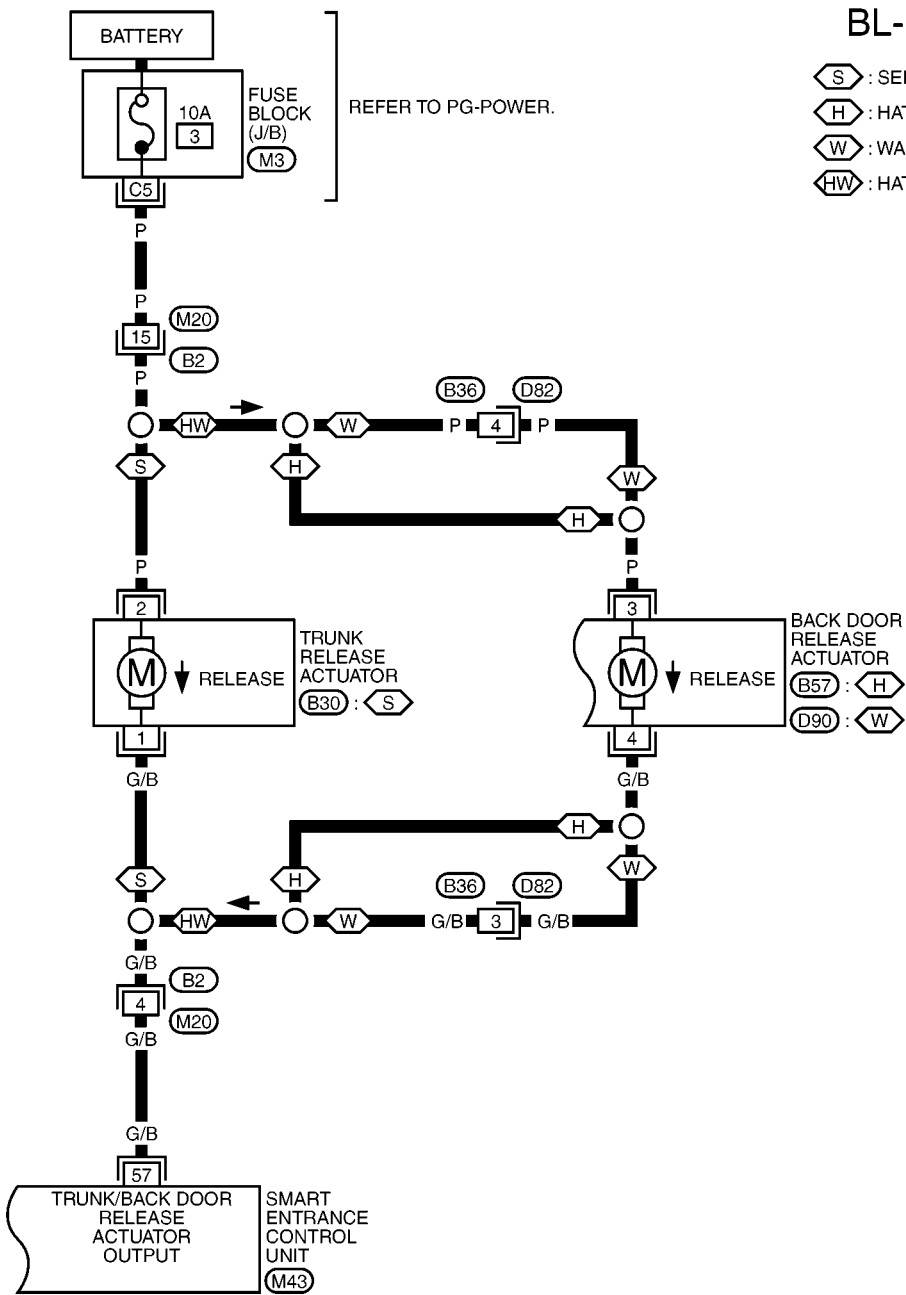
A
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POWER DOOR LOCK SYSTEM

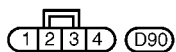
BL-D/LOCK-07

- (S) : SEDAN
- (H) : HATCHBACK
- (W) : WAGON
- (HW) : HATCHBACK AND WAGON



REFER TO THE FOLLOWING.

(M3) -FUSE BLOCK-JUNCTION BOX (J/B)



POWER DOOR LOCK SYSTEM

Terminal and Reference Value for Smart Entrance Control Unit

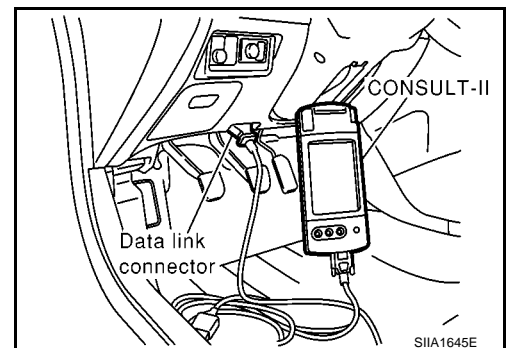
EIS005GT

Terminal	Wire color	Item	Condition	Voltage (V) (Approx.)
5	B/R	Key switch	Key inserted in ignition key cylinder (ON) → key removed from ignition key cylinder (OFF)	Battery voltage → 0
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0
			Other than above (OFF)	5
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0
			Other than above (OFF)	5
16	G	Trunk room lamp switch (Back door switch)	Trunk (Back door) open (ON) → close (OFF)	0 → Battery voltage
19	BR/W	Power window main switch (Trunk or back door release switch)	Press power window main switch (trunk or back door release switch)	5 → 0
20	BR	External trunk or back door release switch	Press the external trunk or back door release switch	5 → 0
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0 → Battery voltage
29	Y/G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
39	BR/W	Rear door switch RH	Door open (ON) → close (OFF)	0 → Battery voltage
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0 → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0 → Battery voltage
45	R/Y	Rear door switch LH	Door open (ON) → close (OFF)	0 → Battery voltage
49	W/L	Power source (PTC)	—	Battery voltage
51	L/R	Door lock actuator unlock (Driver side)	Door lock/unlock switch LOCK operation	0 → Battery voltage → 0
52	Y	Door lock actuator lock (ALL Doors)	Door lock/unlock switch Unlock operation	0 → Battery voltage → 0
53	B	Ground	—	0
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch LOCK operation	0 → Battery voltage → 0
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk or back door release actuator	Power window main switch (trunk or back door release switch) OPEN operation	Battery voltage → 0

CONSULT- II Inspection Procedure

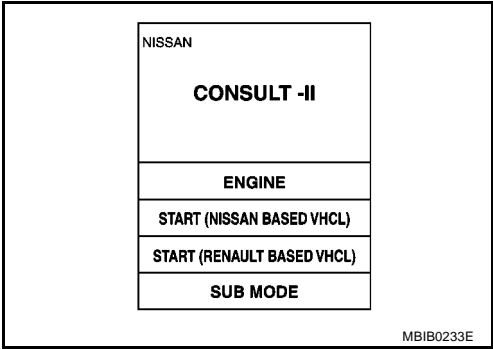
EIS005GU

1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.

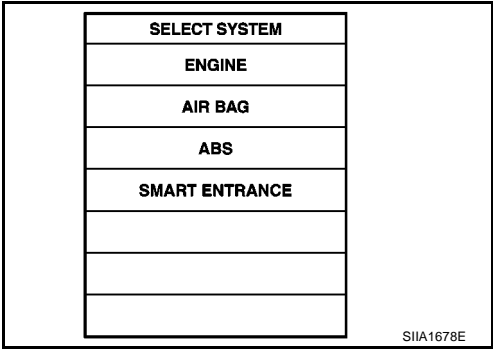


POWER DOOR LOCK SYSTEM

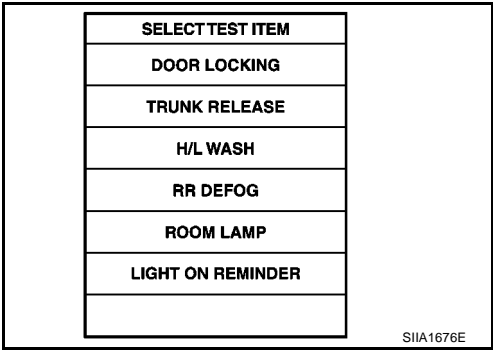
- 3. Turn ignition switch “ON”.
- 4. Touch “START(NISSAN BASED VHCL)”.



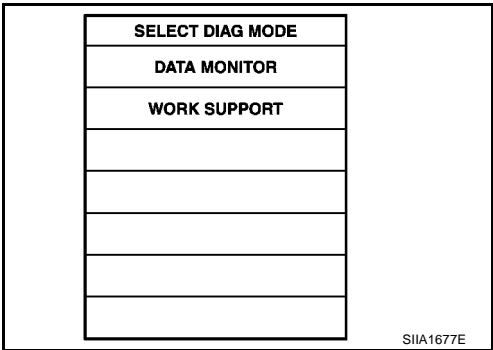
- 5. Touch “SMART ENTRANCE”.



- 6. Touch “DOOR LOCKING” or “TRUNK RELEASE”.



- 7. Select diagnosis mode.
“DATA MONITOR” and “WORK SUPPORT” are available.



POWER DOOR LOCK SYSTEM

CONSULT- II Application Items DOOR LOCKING DATA MONITOR

EIS005GV

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
KEY IN DETECT	Indicates [ON/OFF] condition of key switch.
DOOR SW DR RR	Indicates [ON/OFF] condition of rear door switch (driver side).
DOOR SW AS RR	Indicates [ON/OFF] condition of rear door switch (passenger side).
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.

WORK SUPPORT

Monitored Item	Description
AUTO RE-LOCK	Auto re-lock function can be changed in this mode. The re-lock mode will be changed when "CHANGE MODE" on CONSULT-II screen is touched.
SELECTIVE UNLOCK	Selective unlock function can be changed in this mode. The unlock mode will be changed when "CHANGE SET" on CONSULT-II screen is touched.

TRUNK RELEASE DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
INT TRUNK REL	Indicates [ON/OFF] condition of internal trunk release switch (sedan) or internal back door release switch (wagon).
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

WORK SUPPORT

Monitored Item	Description
TRUNK OPEN DELAY	This mode can be changed trunk release switch (sedan) or back door (wagon) release switch operation time.

Trouble Diagnoses

EIS005GW

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-13, "CONSULT-II INSPECTION PROCEDURE"](#) .

SYMPTOM CHART

Symptom	Malfunctioning system	Reference page
Power door lock does not operate using any switch	1. Smart entrance control unit power supply and ground circuit check	BL-26
	2. Door lock actuator check	BL-28
	3. Replace smart entrance control unit.	—

POWER DOOR LOCK SYSTEM

Symptom	Malfunctioning system	Reference page
Power door lock does not operate with lock/unlock switch.	1. Door lock/unlock switch check	BL-27
	2. Replace smart entrance control unit.	—
Specific door lock actuator does not operate.	1. Door lock actuator check	BL-28
*Key reminder system does not operate.	1. Door switch check	BL-32
	2. Key switch check	BL-41
	3. Replace smart entrance control unit.	—
Trunk or back door release actuator does not operate.	1. Trunk room lamp switch or back door switch check	BL-36
	2. Trunk release actuator check (sedan)	BL-38
	3. Back door release actuator check (wagon)	BL-39
	4. Replace smart entrance control unit.	—

*:Make sure the power door lock system operates properly.

Smart Entrance Control Unit Power Supply and Ground Circuit Check

EIS005GX

1. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect smart entrance control unit connector.
- Check voltage between smart entrance control unit harness connector M43 terminal 49, 56 and ground.

49 (W/L) - Ground : Battery voltage

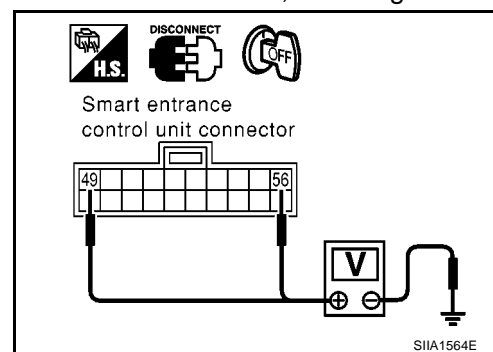
56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 40A fusible link (letter B, located in the fusible link and fuse box)
- 10A fuse (No. 12, located in the fusible link and fuse box)
- Condition of circuit breaker-1
- Harness for open or short smart entrance control unit power supply circuit.



2. CHECK GROUND CIRCUIT

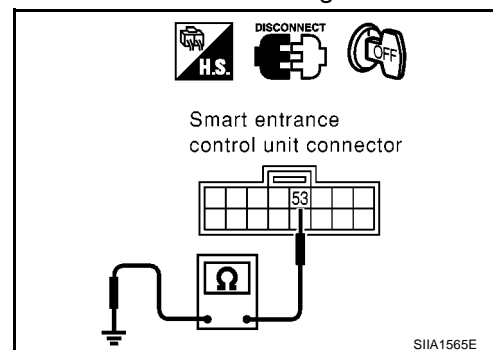
Check continuity between smart entrance control unit harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

OK >> Smart entrance control unit power supply and ground circuit are OK.

NG >> Check smart entrance control unit ground circuit for open or short.



POWER DOOR LOCK SYSTEM

Door Lock/Unlock Switch Check

EIS005GY

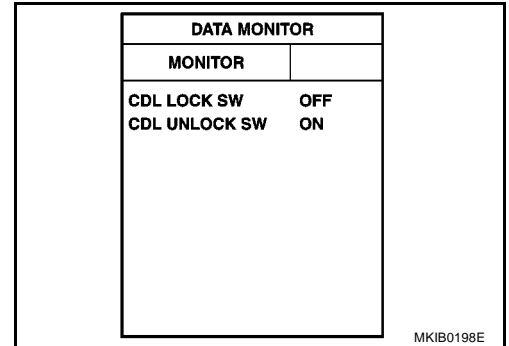
1. CHECK DOOR LOCK/UNLOCK SWITCH

WITH CONSULT-II

Check door lock/unlock switch signal ("CDL LOCK SW" or "CDL UNLOCK SW") in "DATA MONITOR" mode with CONSULT-II.

When door lock/unlock is locked : CDL LOCK SW ON

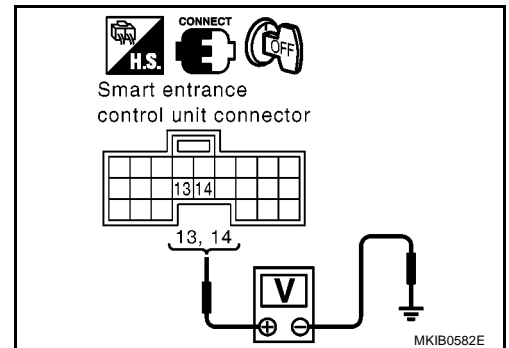
When door lock/unlock is unlocked : CDL UNLOCK SW ON



WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	13 (GY)	Ground	Locked	0
			Unlocked	Battery voltage
	14 (BR/Y)		Locked	Battery voltage
			Unlocked	0



OK or NG

- OK >> Door lock/unlock switch is OK.
- NG >> GO TO 2.

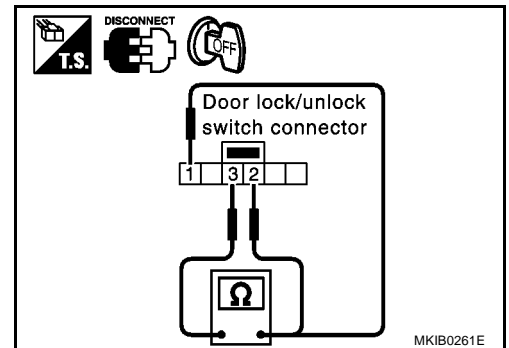
2. CHECK DOOR LOCK/UNLOCK SWITCH

- Turn ignition switch OFF.
- Disconnect door lock/unlock switch connector.
- Check continuity between door lock/unlock switch connector terminals 1, 2 and 3.

Terminal		Door lock/unlock switch condition	Continuity
1	3	Lock	Yes
2		Unlock	Yes

OK or NG

- OK >> Check the following.
 - Ground circuit for door lock/unlock switch
 - Harness for open short between door lock/unlock switch and smart entrance control unit
- NG >> Replace door lock/unlock switch.



POWER DOOR LOCK SYSTEM

Door Lock Actuator Check

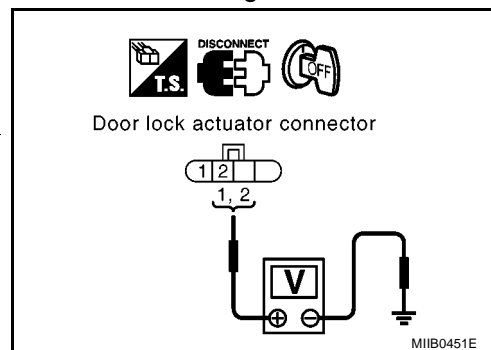
EIS005GZ

DRIVER SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (driver side) harness connector.
3. Check voltage between front door lock actuator (driver side) harness connector and ground.

Connector	Terminal (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
D8	1 (L/R)	Ground	Lock	0 → Battery voltage → 0
	2 (Y)		Unlock	0 → Battery voltage → 0



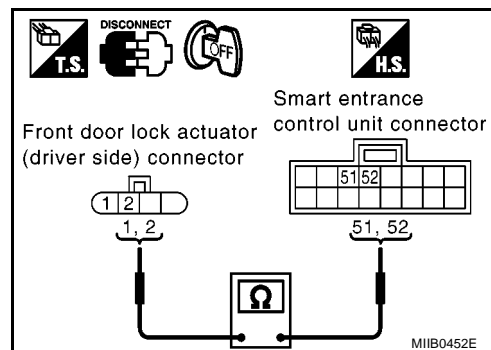
OK or NG

- OK >> Replace front door lock actuator (driver side).
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between front door lock actuator (driver side) harness connector D8 terminal 1, 2 and smart entrance control unit harness connector M43 terminal 51, 52.

1 (L/R) - 51 (L/R) : Continuity should exist.
2 (Y) - 52 (Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness between smart entrance control unit and front door lock actuator (driver side).

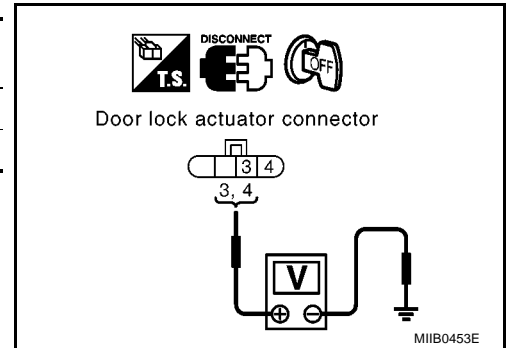
POWER DOOR LOCK SYSTEM

PASSENGER SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (passenger side) harness connector.
3. Check voltage between front door lock actuator (passenger side) harness connector and ground.

Connector	Terminal (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
D37	3 (Y)	Ground	Unlock	0 → Battery voltage → 0
	4 (G/Y)		Lock	0 → Battery voltage → 0



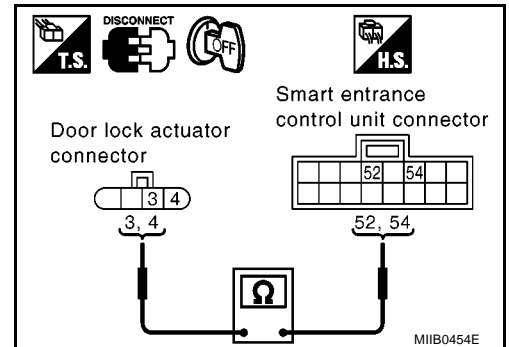
OK or NG

- OK >> Replace front door lock actuator (passenger side).
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between front door lock actuator (passenger side) harness connector D37 terminal 3, 4 and smart entrance control unit harness connector M43 terminal 52, 54.

3 (Y) - 52 (Y) : Continuity should exist.
4 (G/Y) - 54 (G/Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness between smart entrance control unit and front door lock actuator (passenger side).

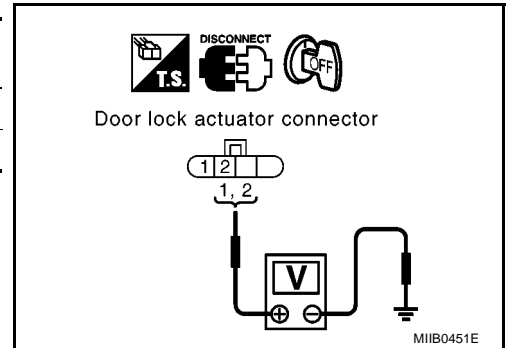
POWER DOOR LOCK SYSTEM

REAR LH SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator LH harness connector.
3. Check voltage between rear door lock actuator LH harness connector and ground.

Connector	Terminal (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
D55	1 (GY)	Ground	Lock	0 → Battery voltage → 0
	2 (Y)		Unlock	0 → Battery voltage → 0



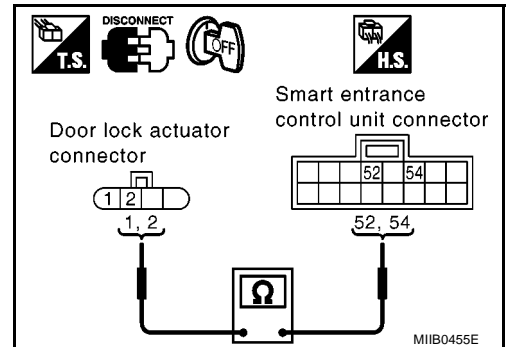
OK or NG

- OK >> Replace rear door lock actuator LH.
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator LH harness connector D55 terminal 1, 2 and smart entrance control unit harness connector M43 terminal 52, 54.

1 (G/Y) - 54 (G/Y) : Continuity should exist.
2 (Y) - 52 (Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness between smart entrance control unit and rear door lock actuator LH.

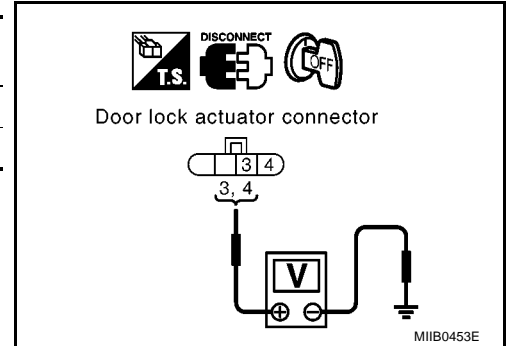
POWER DOOR LOCK SYSTEM

REAR RH SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator RH harness connector.
3. Check voltage between rear door lock actuator RH harness connector and ground.

Connector	Terminal (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
D65	3 (Y)	Ground	Unlock	0 → Battery voltage → 0
	4 (G/Y)		Lock	0 → Battery voltage → 0



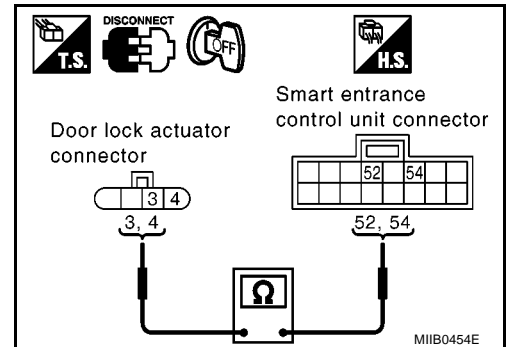
OK or NG

- OK >> Replace rear door lock actuator RH.
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator RH harness connector D65 terminal 3, 4 and smart entrance control unit harness connector M43 terminal 52, 54.

3 (Y) - 52 (Y) : Continuity should exist.
4 (G/Y) - 54 (G/Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repairer replace harness between smart entrance control unit and rear door lock actuator RH.

POWER DOOR LOCK SYSTEM

Door Switch Check

DRIVER SIDE

EIS005H0

1. CHECK DOOR SWITCH INPUT SIGNAL

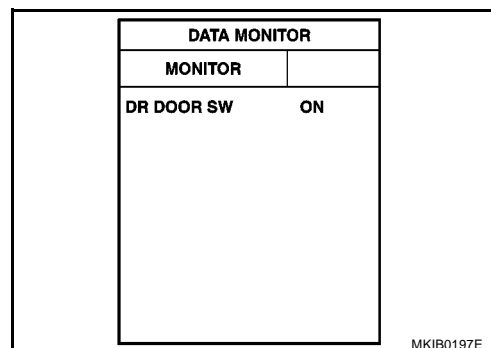
④ WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



⊗ WITHOUT CONSULT-II

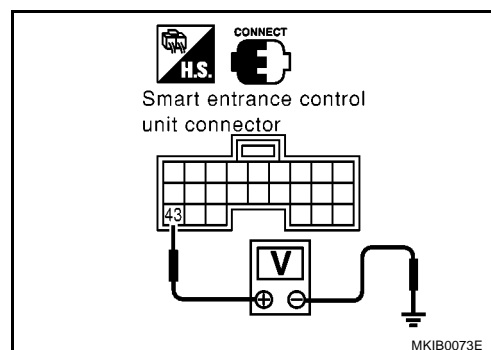
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

OK >> Door switch (driver side) is OK.

NG >> GO TO 2.



2. CHECK DRIVER SIDE DOOR SWITCH

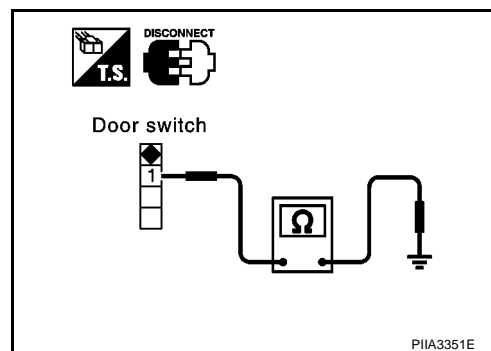
1. Turn ignition switch OFF.
2. Disconnect front door switch (driver side) connector.
3. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal	Door switch	Continuity
1	Pushed	No
	Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).

NG >> Replace front door switch (driver side).



POWER DOOR LOCK SYSTEM

EXCEPT DRIVER SIDE

1. CHECK OTHER DOORS SWITCHES INPUT SIGNAL

WITH CONSULT-II

Check other doors switch signal ("AS DOOR SW", "RR DOOR SW" or "RR RH DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

Each DOOR SW

Each door is open : ON

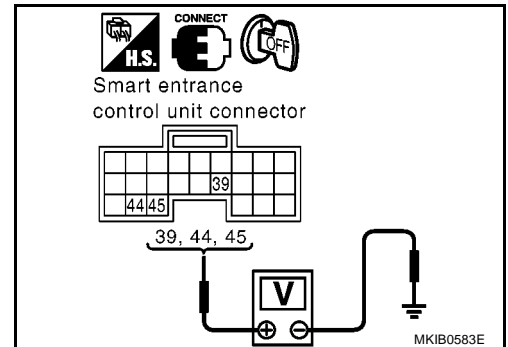
Each door is closed : OFF

DATA MONITOR	
MONITOR	
AS DOOR SW	ON
RR LH DOOR SW	ON
RR RH DOOR SW	ON

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Item	Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Rear door LH or RH	M42	39 (BR/W)	Ground	Open	0
				Closed	Battery voltage
Passenger side		44 (L/OR)		Open	0
				Closed	Battery voltage
Rear door LH or RH		45 (R/Y)		Open	0
				Closed	Battery voltage



OK or NG

OK >> Door switch OK.

NG >> GO TO 2.

2. CHECK DOOR SWITCHES

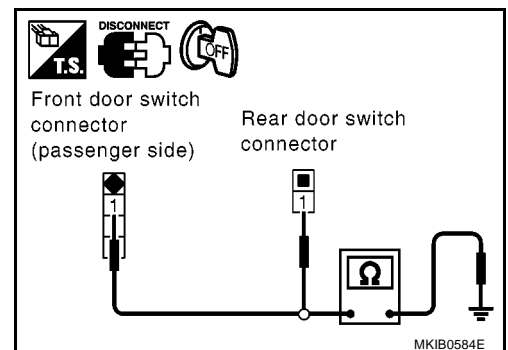
1. Turn ignition switch OFF.
2. Disconnect each door switches harness connector.
3. Check continuity between door switch terminal 1 and ground part of door switch.

Terminal		Condition	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and door switch.

NG >> Replace malfunction door switch.



POWER DOOR LOCK SYSTEM

Trunk Room Lamp Switch or Back Door Switch Check

EIS005H1

TRUNK ROOM LAMP SWITCH

1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

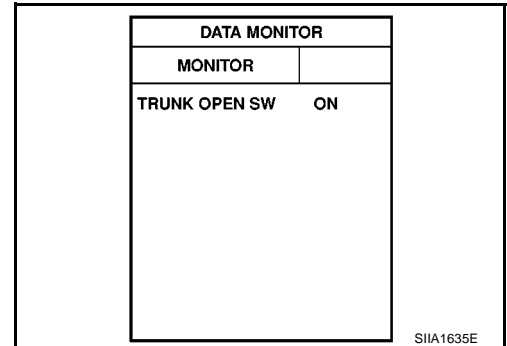
With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Trunk lid open : ON

Trunk lid open : OFF



Without CONSULT- II

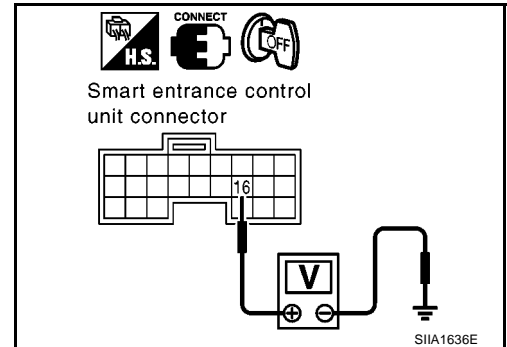
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Trunk lid	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Trunk room lamp switch is OK.

NG >> GO TO 2



2. CHECK TRUNK ROOM LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk room lamp switch harness connector.
3. Check continuity between trunk room lamp switch terminals 1 and 2.

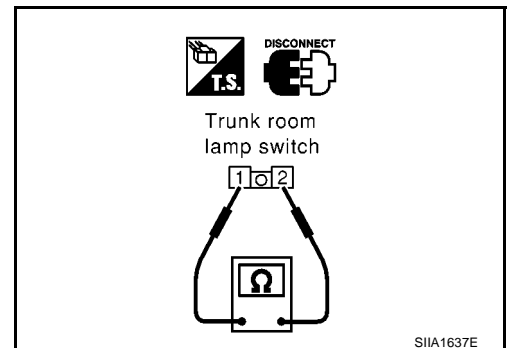
Terminal		Trunk lid condition	Continuity
1	2		
		Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Trunk room lamp switch ground circuit
- Harness for open or short between smart entrance control unit and trunk room lamp switch

NG >> Replace trunk room lamp switch.



POWER DOOR LOCK SYSTEM

BACK DOOR SWITCH

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

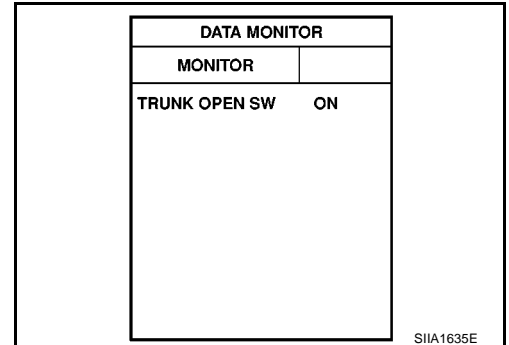
④ With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Back door open : ON

Back door close : OFF



⊗ Without CONSULT- II

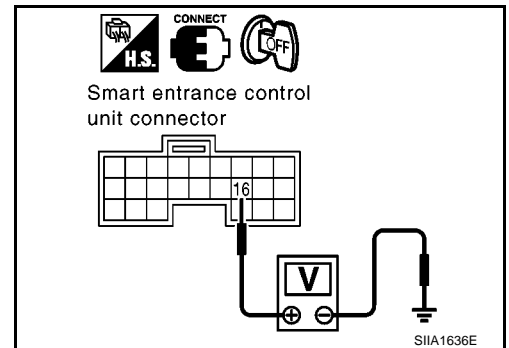
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Back door	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Back door switch is OK.

NG >> GO TO 2



2. CHECK BACK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door release actuator connector.
3. Check continuity between back door release actuator terminals 1 and 2.

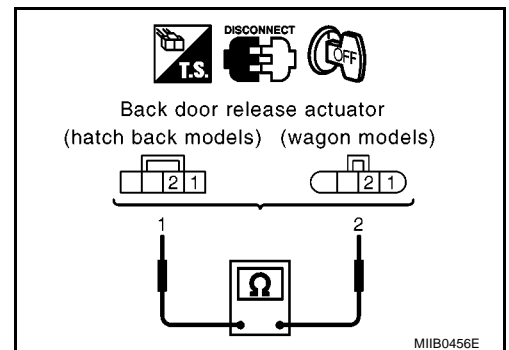
Terminal		Back door condition	Continuity
1	2		
		Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Back door release actuator ground circuit
- Harness for open or short between smart entrance control unit and back door release actuator

NG >> Replace back door release actuator.



POWER DOOR LOCK SYSTEM

Trunk or Back Door Release Switch Check

EIS005H2

EXTERNAL SWITCH

1. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

With CONSULT-II

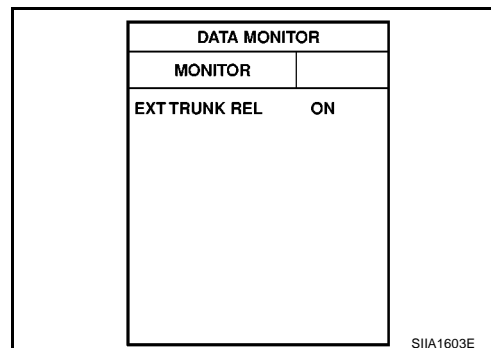
Check external trunk or back door release switch input signal "EXT TRUNK REL" in "DATA MONITOR" mode with CONSULT- II.

Release switch is pushed (open):

EXT TRUNK REL ON

Release switch is released (close):

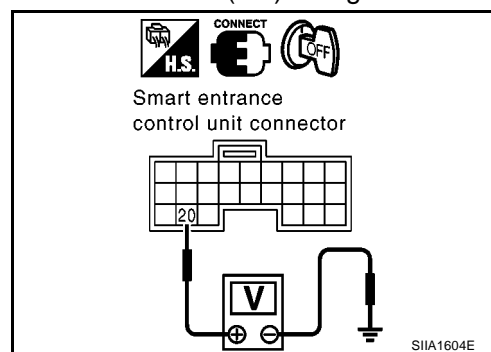
EXT TRUNK REL OFF



Without CONSULT- II

Check voltage between smart entrance control unit harness connector M41 terminal 20(BR) and ground.

Connector	Terminal (wire color)		Release switch	Voltage (V) (Approx.)
	(+)	(-)		
M41	20 (B/R)	Ground	Pushed	0
			Released	5



OK or NG

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2

2. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH

1. Turn ignition switch OFF.
2. Disconnect external trunk or back door release switch connector.
3. Check continuity between external trunk or back door release switch terminals 1 and 2.

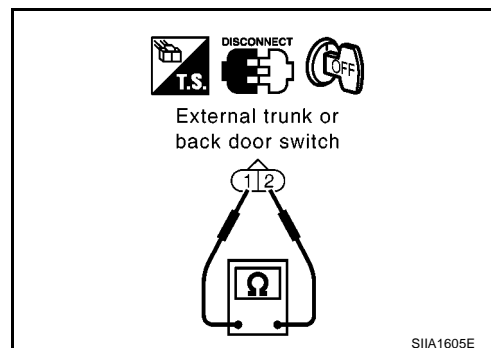
Terminal		Release switch	Continuity
1	2		
		Pushed	Yes
		Released	No

OK or NG

OK >> Check the following.

- Harness for open or short between external trunk or back door release switch and smart entrance control unit
- External trunk or back door release switch ground circuit

NG >> Replace external trunk or back door release switch.



POWER DOOR LOCK SYSTEM

INTERNAL SWITCH (POWER WINDOW MAIN SWITCH)

1. CHECK TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

With CONSULT-II

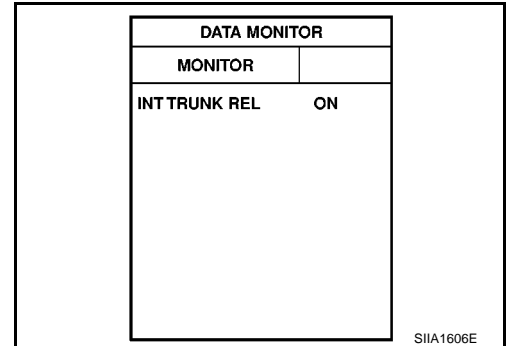
Check trunk or back door release switch input signal "INT TRUNK REL" in "DATA MONITOR" mode with CONSULT-II.

Release switch is pushed (open):

INT TRUNK REL ON

Release switch is released (close):

INT TRUNK REL OFF



Without CONSULT-II

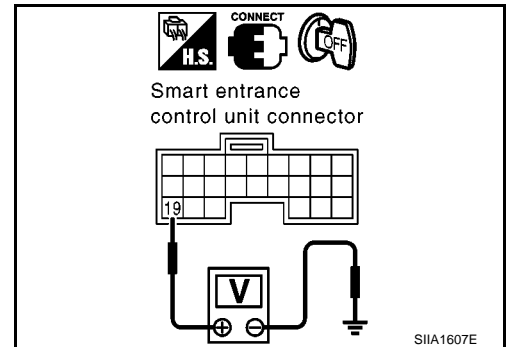
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Release switch	Voltage (V) (Approx.)
	(+)	(-)		
M41	19 (BR/W)	Ground	Pushed	0
			Released	5

OK or NG

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2



2. CHECK TRUNK OR BACK DOOR RELEASE SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch (trunk or back door release switch) connector.
3. Check continuity between power window main switch (trunk or back door release switch) terminals 3 and 12.

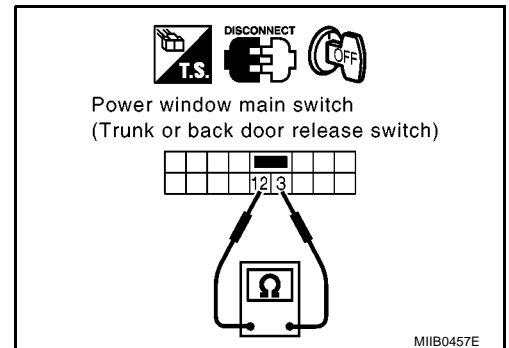
Terminals		Release switch	Continuity
3	12		
		Pushed	Yes
		Released	No

OK or NG

OK >> Check the following.

- Harness for open or short between power window main switch (trunk or back door release switch) and smart entrance control unit
- Power window main switch (trunk or back door release switch) ground circuit

NG >> Replace power window main switch (trunk or back door release switch).



POWER DOOR LOCK SYSTEM

Trunk Release Actuator Check (Sedan)

EIS005H3

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between trunk release actuator harness connector B30 terminal 2 and ground.

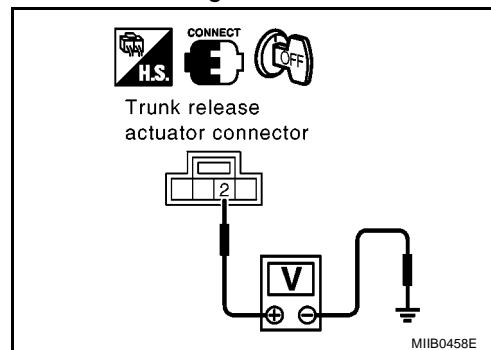
2 (P) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

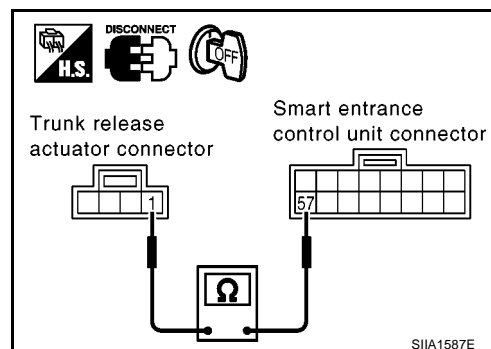
- 10A fuse (No. 3, located in the fusible link and fuse box).
- Harness for open or short between trunk release actuator and fuse.



2. CHECK TRUNK RELEASE ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect trunk release actuator and smart entrance control unit harness connector.
3. Check continuity between trunk release actuator harness connector B30 terminal 1 and smart entrance control unit harness connector M43 terminal 57.

1 (G/B) - 57 (G/B) : Continuity should exist.



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between smart entrance control unit and trunk release actuator.

3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

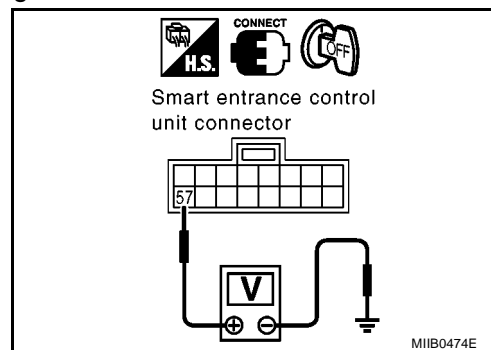
1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Trunk release switch: ON	0
			Other than above	Battery voltage

OK or NG

OK >> Replace trunk release actuator.

NG >> Replace smart entrance control unit.



POWER DOOR LOCK SYSTEM

Back Door Release Actuator Check (Wagon)

EIS005H4

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect back door release actuator harness connector.
3. Check voltage between back door release actuator harness connector D90 terminal 3 and ground.

3 (P) - Ground

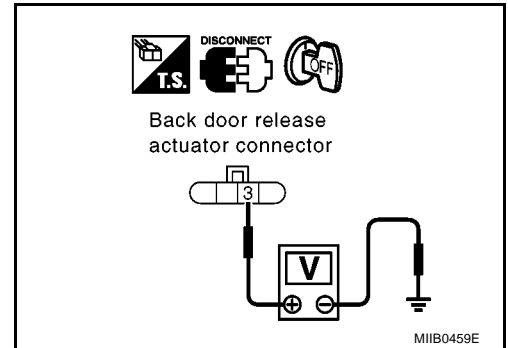
: Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 10A fuse (No. 3, located in the fusible link and fuse box).
- Harness for open or short between back door release actuator and fuse.

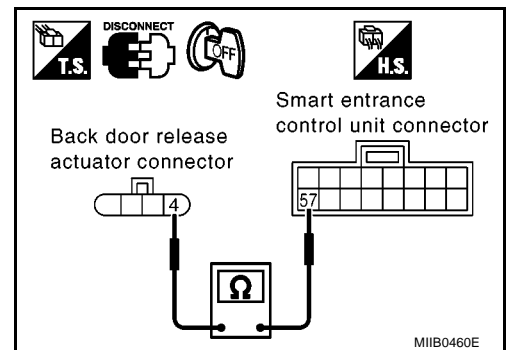


2. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between back door release actuator harness connector D90 terminal 4 and smart entrance control unit harness connector M43 terminal 57.

4 (G/B) - 57 (G/B)

: Continuity should exist.



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between smart entrance control unit and back door release actuator.

3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

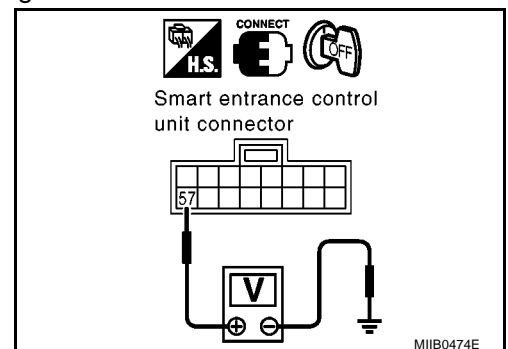
1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Back door release switch: ON	0
			Other than above	Battery voltage

OK or NG

OK >> Replace back door release actuator.

NG >> Replace smart entrance control unit.



POWER DOOR LOCK SYSTEM

Back Door Release Actuator Check (Hatch back)

EIS00611

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between back door release actuator harness connector B57 terminal 3 and ground.

3 (P) - Ground

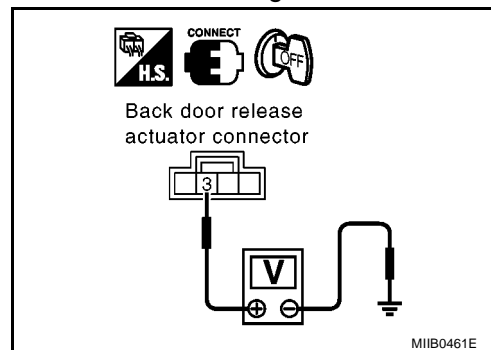
: Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 10A fuse (No. 3, located in the fusible link and fuse box).
- Harness for open or short between back door release actuator and fuse.

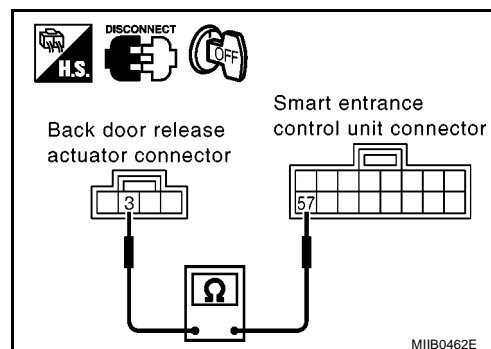


2. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Turn ignition switch.
2. Disconnect back door release actuator and smart entrance control unit harness connector.
3. Check continuity between back door release actuator harness connector B57 terminal 4 and smart entrance control unit harness connector M43 terminal 57.

4 (G/B) - 57 (G/B)

: Continuity should exist.



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between smart entrance control unit and back door release actuator.

3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

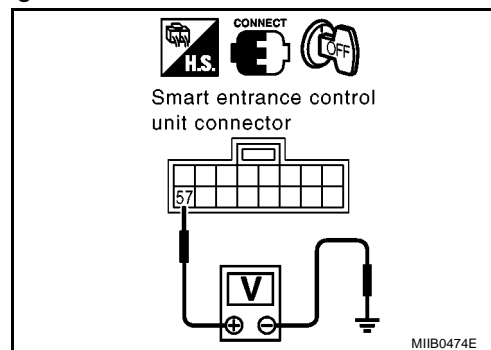
1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Back door release switch: ON	0
			Other than above	Battery voltage

OK or NG

OK >> Replace back door release actuator.

NG >> Replace smart entrance control unit.



POWER DOOR LOCK SYSTEM

Key Switch Check

EIS005H5

1. CHECK KEY SWITCH INPUT SIGNAL

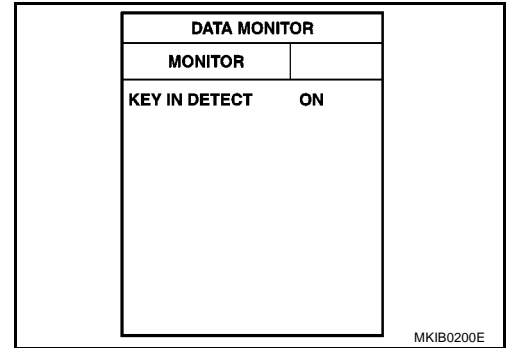
① WITH CONSULT-II

Check key switch signal ("KEY IN DETECT") in "DATA MONITOR" mode with CONSULT-II.

KEY IN DETECT

Key is inserted in ignition cylinder : ON

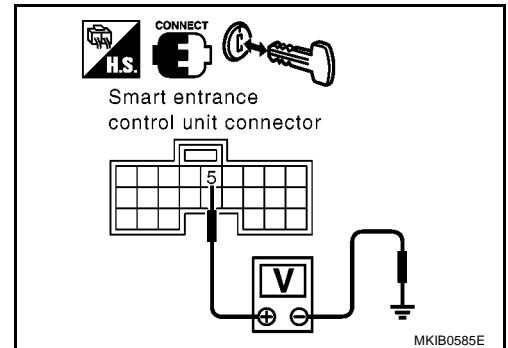
Key is removed from ignition key cylinder : OFF



② WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminal 5 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	5 (B/R)	Ground	Key is inserted	Battery voltage
			Key is removed	0



OK or NG

OK >> Key switch is OK.

NG >> GO TO 2.

2. CHECK KEY SWITCH

1. Disconnect key switch connector.
2. Check continuity between key switch terminal 1 and 2.

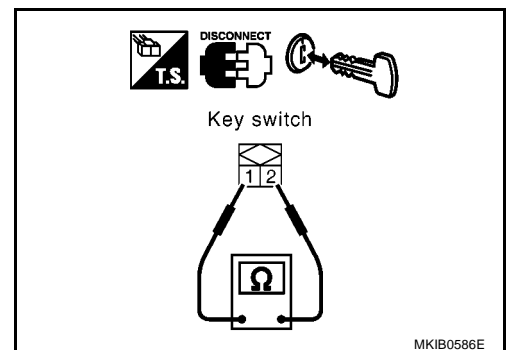
Terminal		Condition	Continuity
1	2		
1	2	Key is inserted	Yes
		Key is removed	No

OK or NG

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



POWER DOOR LOCK — SUPER LOCK —

PFP:24814

System Description OUTLINE

EIS005H6

Power door lock system with super lock and key reminder is controlled by smart entrance control unit. Super lock has a higher anti-theft performance than conventional power door lock systems.
When super lock is in released condition, lock knob operation locks or unlocks door.
When super lock is in set condition, lock knob operation cannot lock nor unlock door.

OPERATION

Power door lock/unlock and super lock set/release operation by door key cylinder

- With the key inserted into driver door key cylinder, turning it to LOCK will lock all doors and set super lock. (Super lock will not be set while key is inserted in the ignition key cylinder.)
- With the key inserted into driver door key cylinder, turning it to UNLOCK will unlock all doors and release super lock.

Power door lock/unlock and super lock set/release operation by remote controller (If equipped)

- Pressing remote controller LOCK button will lock all doors and set super lock. (Super lock will not be set while key is inserted in the ignition key cylinder.)
- Pressing remote controller UNLOCK button once will unlock driver door and release super lock. Then, if an unlock signal is sent from the remote controller again within 5 seconds, all other doors will be unlocked.

Power door lock and super lock release operation

- When the super lock is set, turning the ignition key switch to ON will release the super lock. All doors will unlock once, but then immediately lock again.

Power door lock/unlock operation by lock/unlock switch

- With door lock/unlock switch on center console setting to LOCK will lock all doors.
- With door lock/unlock switch on center console setting to UNLOCK will unlock all doors.

Door lock/unlock switch operation cannot control super lock

Child lock system

- The system has a child lock switch that mechanically latches in the ON and OFF condition. Child locks can only be operated when the ignition is ON and for 30 seconds after the ignition is OFF.

Child lock indicator (Located in combination meter) operation

Indicator ON	Ignition switch: ON	Child lock set	Indicator ON for 30 seconds
		Child lock not completely set	Indicator blinks & beep warning for 10 seconds
Indicator OFF	Child lock switch released	Child lock released	Indicator blinks for 10 seconds
		Child lock not completely released	Indicator blinks & beep warning for 10 seconds
	Ignition switch: OFF	—	Indicator OFF

Key reminder system

- If the ignition key is in the ignition key cylinder and driver door is open, setting door lock/unlock switch, lock knob, key or remote controller to “LOCK” locks the door once but then immediately unlocks all doors. (signal from door unlock sensor driver side)

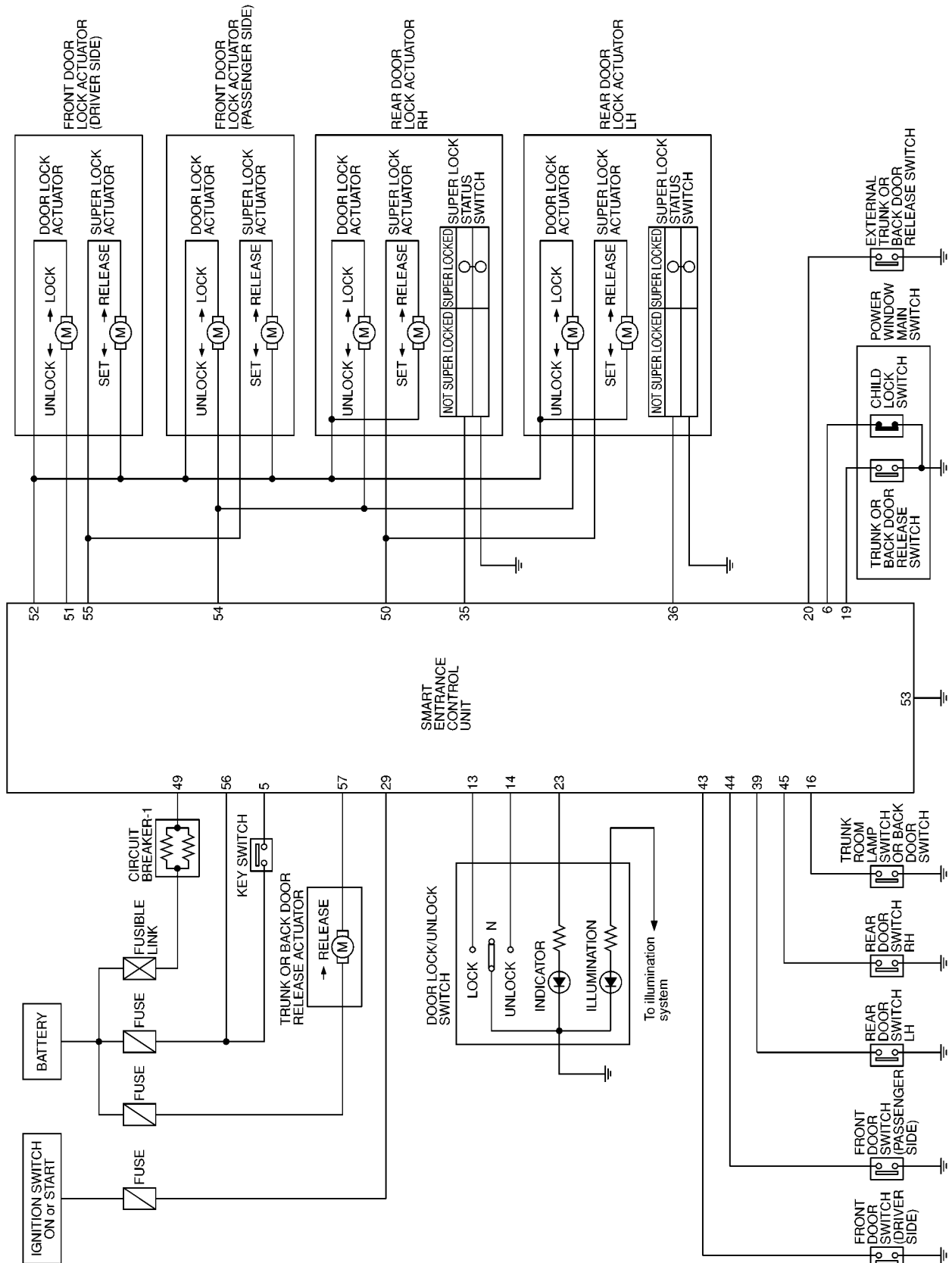
System initialization

- System initialization is required when battery cables are reconnected. Conduct the following to release super lock once;
 - insert the key into the ignition key cylinder and turn it to ON.
 - LOCK/UNLOCK operation using door key cylinder or remote controller.

POWER DOOR LOCK — SUPER LOCK —

Schematic

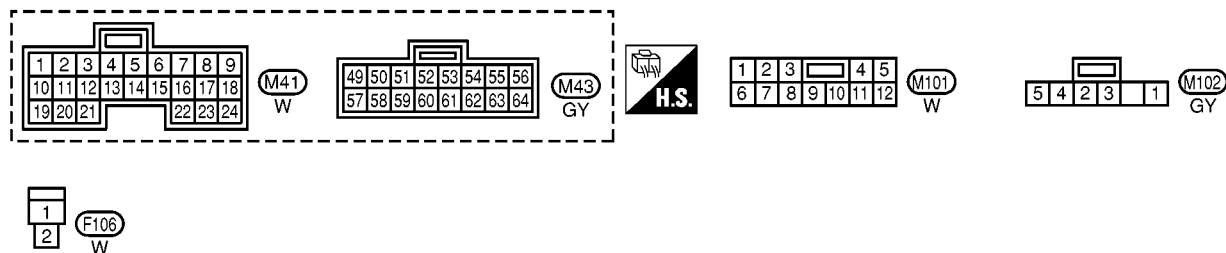
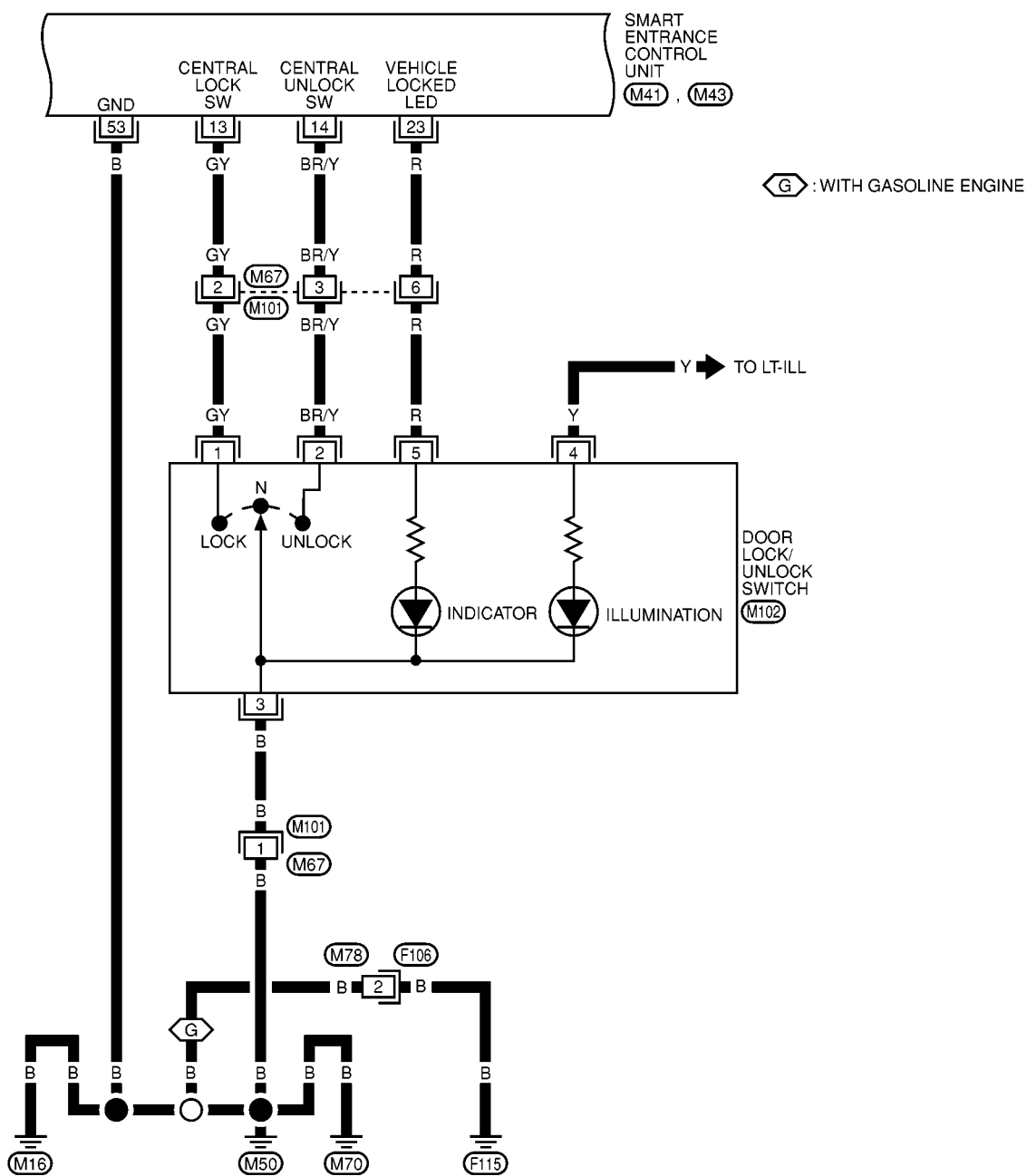
EIS005H7



MKWA0102E

POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-02



POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-03

ES : WITH ESP

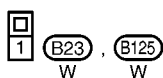
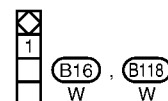
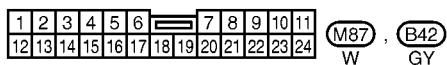
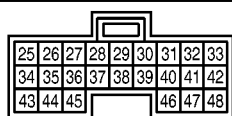
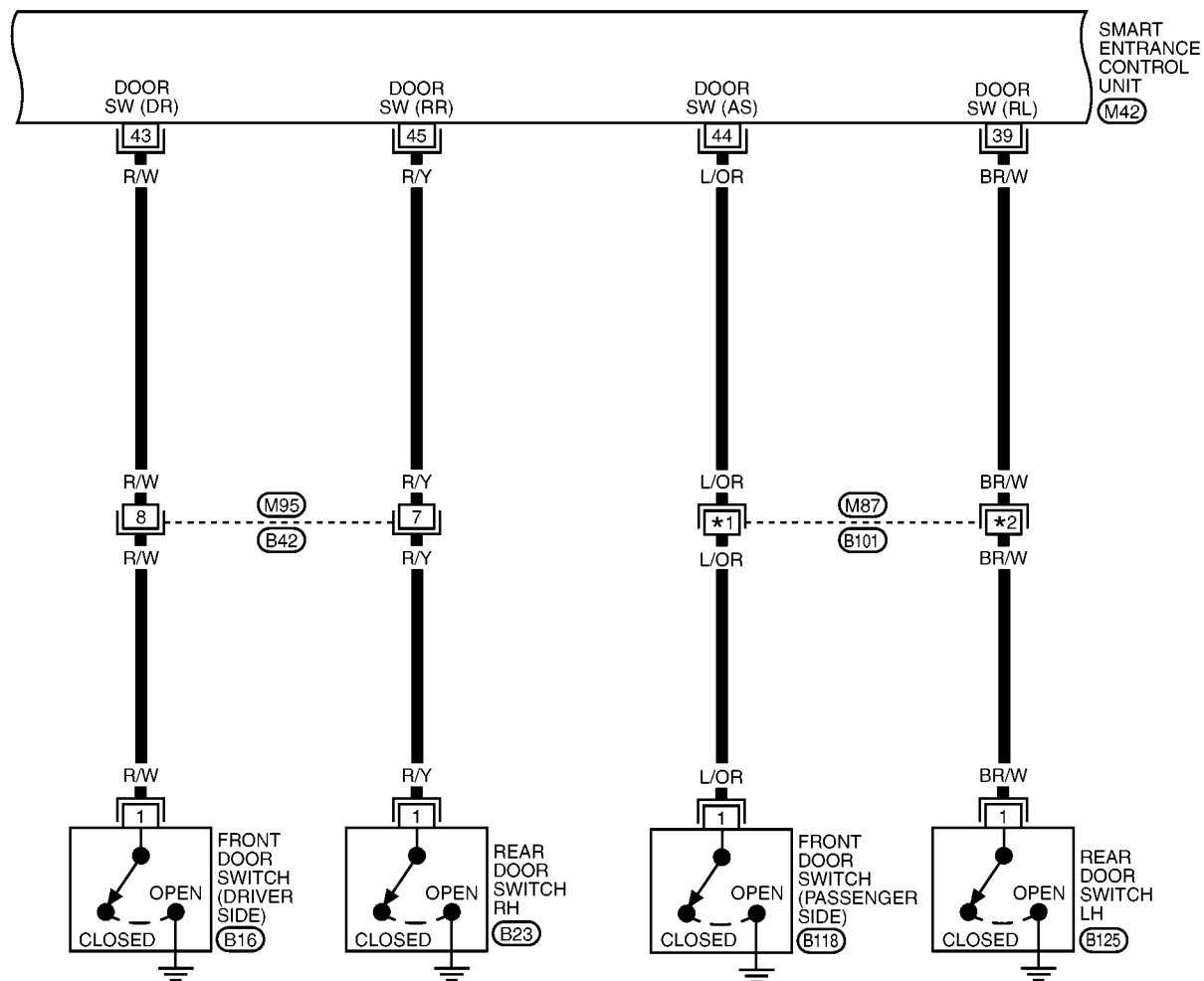
OE : WITHOUT ESP

*1 11 : ES

9 : OE

*2 24 : ES

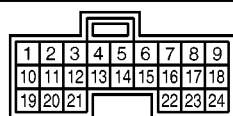
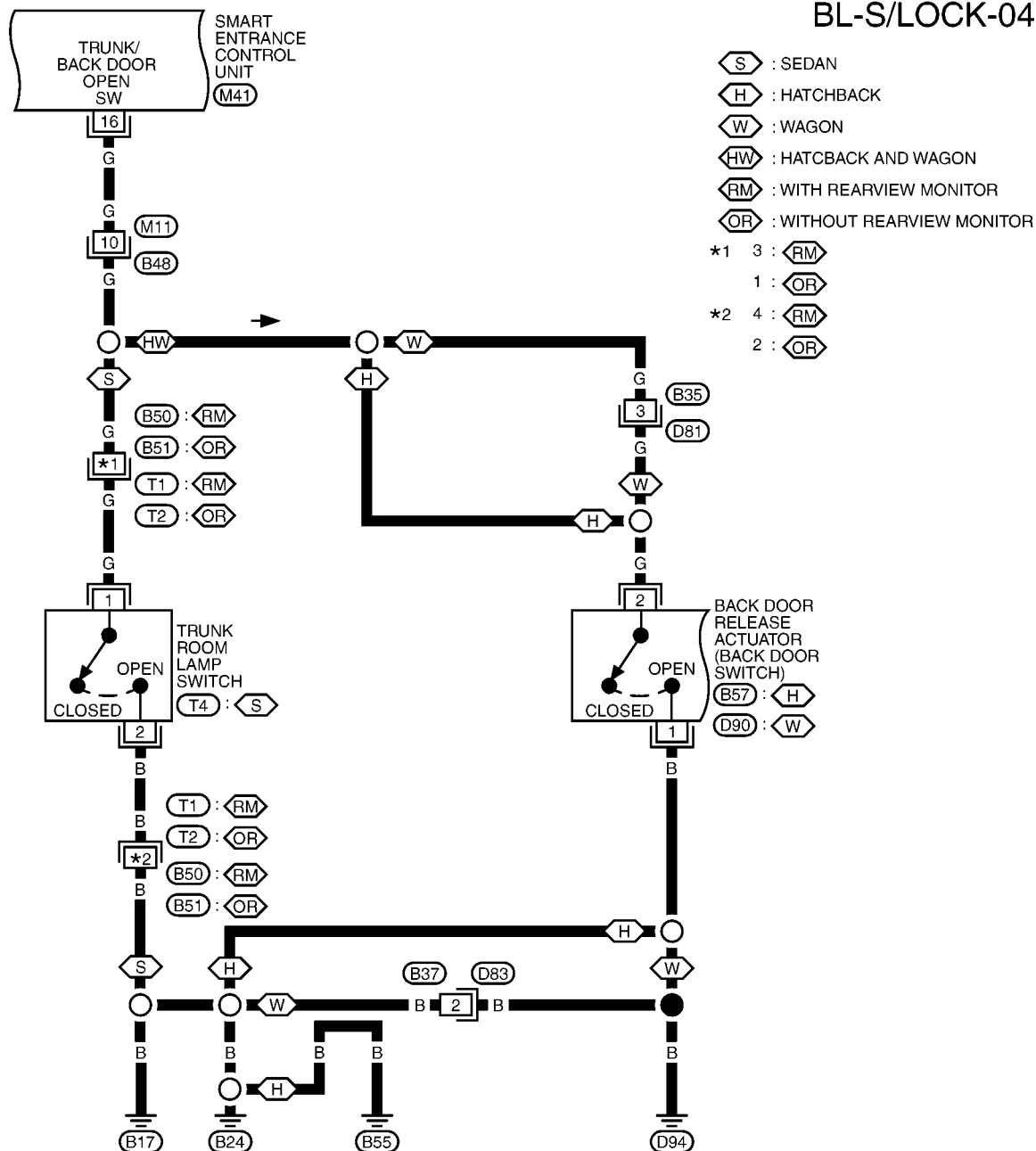
8 : OE



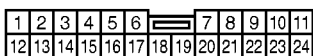
MKWA0954E

POWER DOOR LOCK — SUPER LOCK —

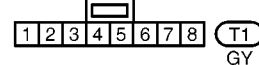
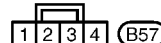
BL-S/LOCK-04



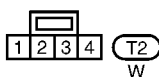
M41



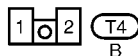
B48
BR



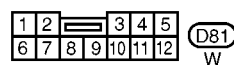
T1
GY



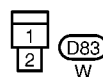
T2
W



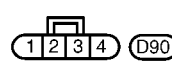
T4
B



D81
W



D83
W

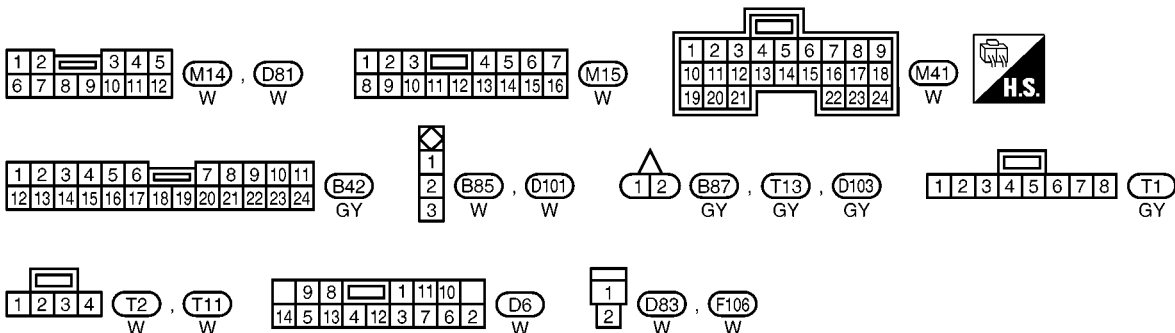
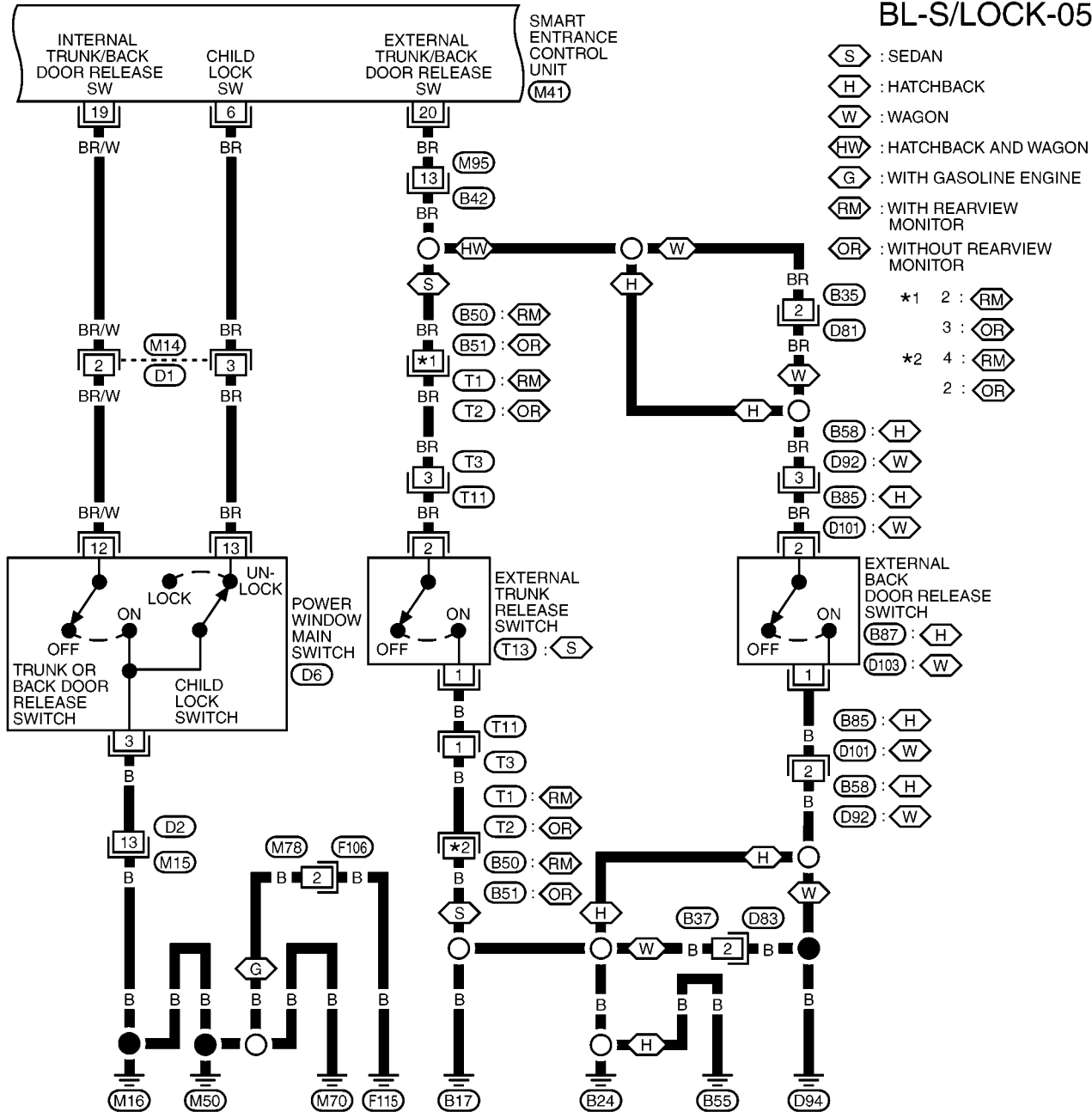


D90

MKWA0955E

POWER DOOR LOCK — SUPER LOCK —

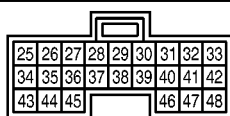
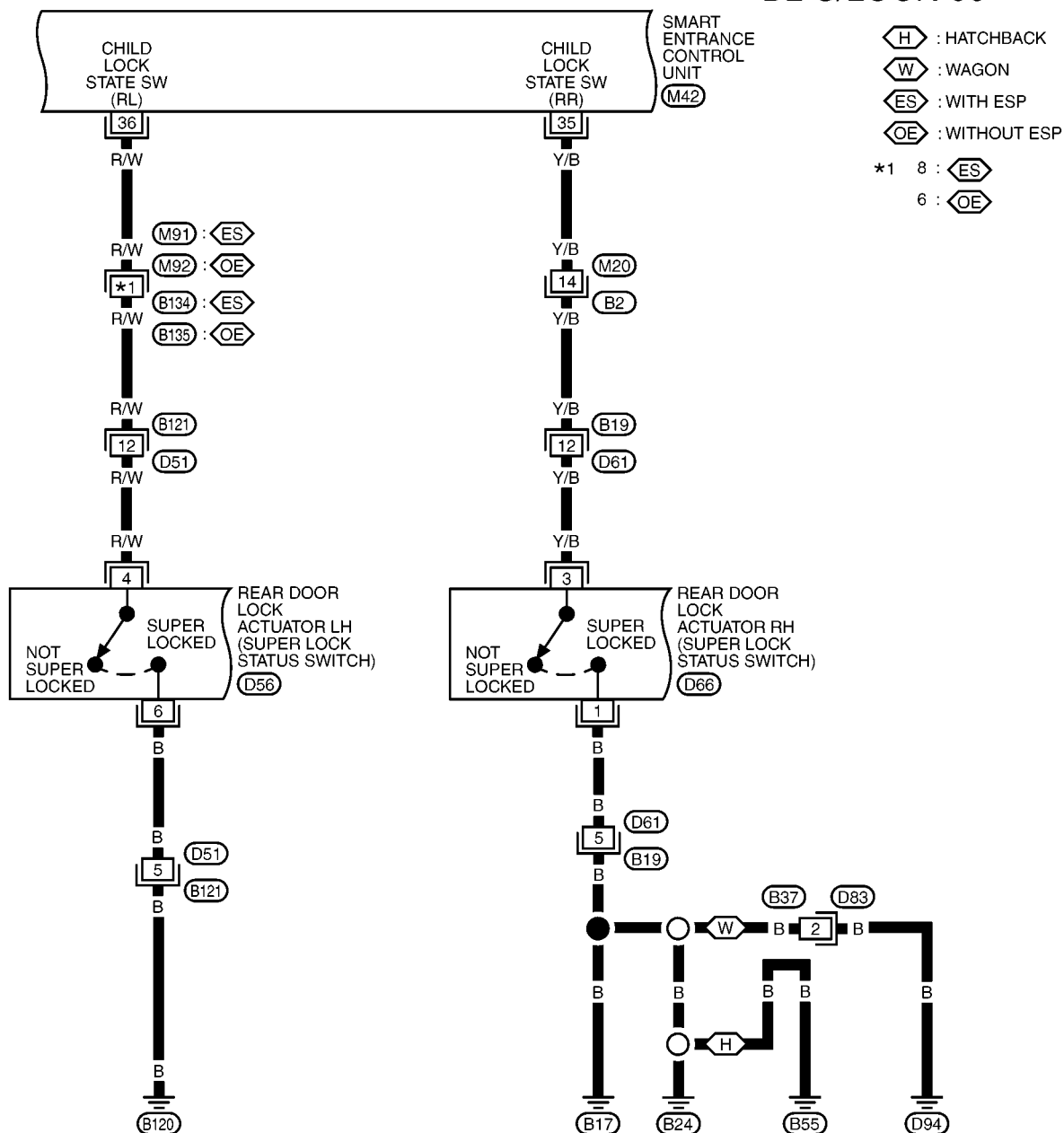
BL-S/LOCK-05



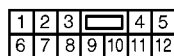
MKWA0956E

POWER DOOR LOCK — SUPER LOCK —

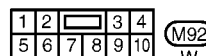
BL-S/LOCK-06



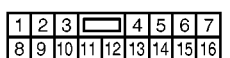
(M42) GY



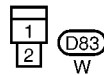
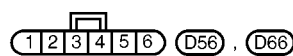
(M91) W, (B19) W, (B121) W



(M92) W



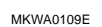
(B2) BR



(D83) W

MKWA0957E

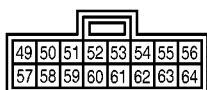
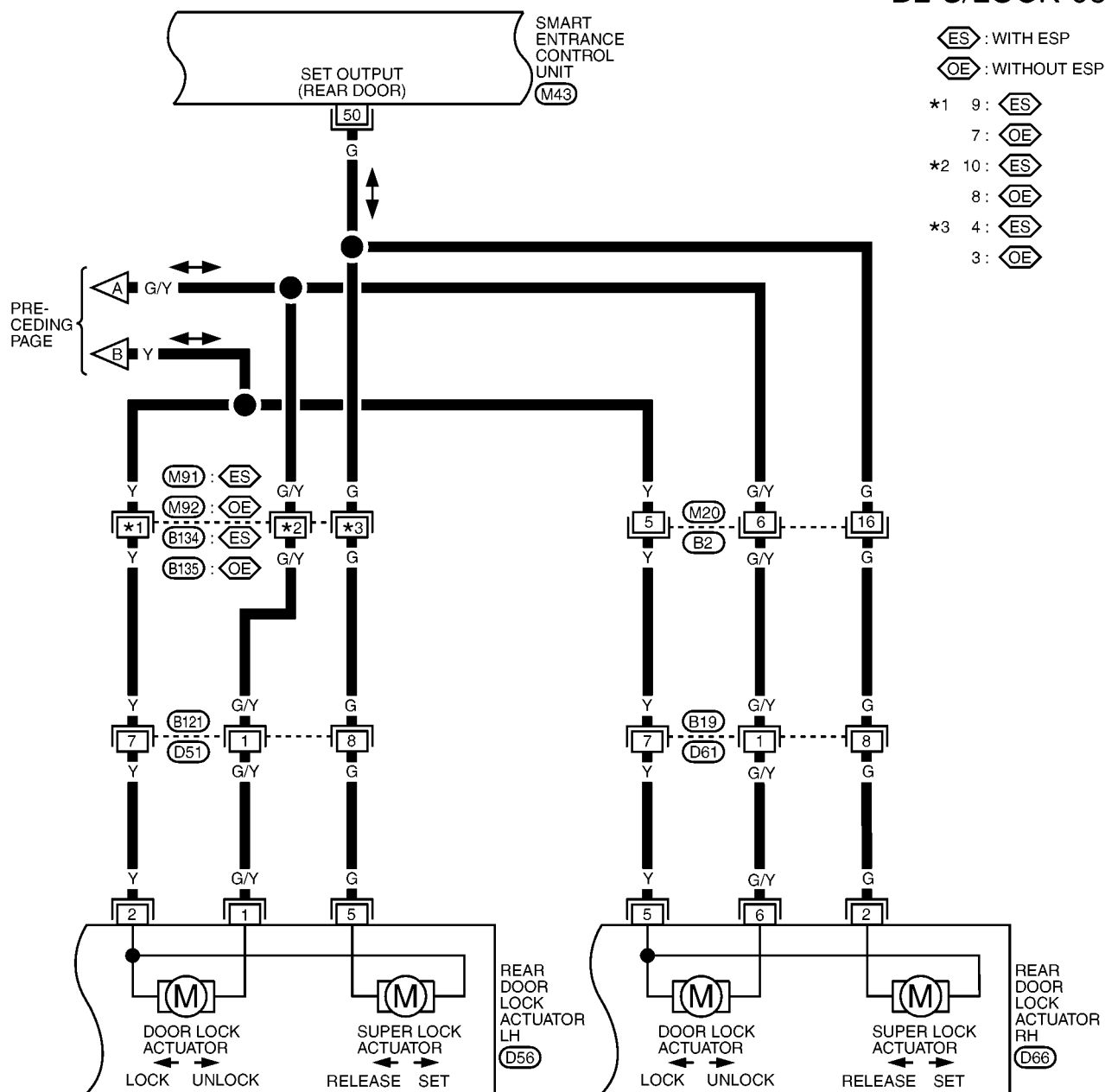
BL-S/LOCK-07



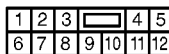
POWER DOOR LOCK — SUPER LOCK —

BL-S/LOCK-08

A
B
C
D
E
F
G
H
BL
J
K
L
M



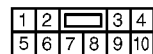
(M43)
GY



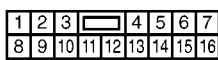
(M91)
W

(B19)
W

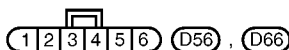
(B121)
W



(M92)
W



(B2)
BR

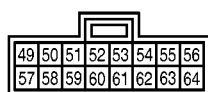
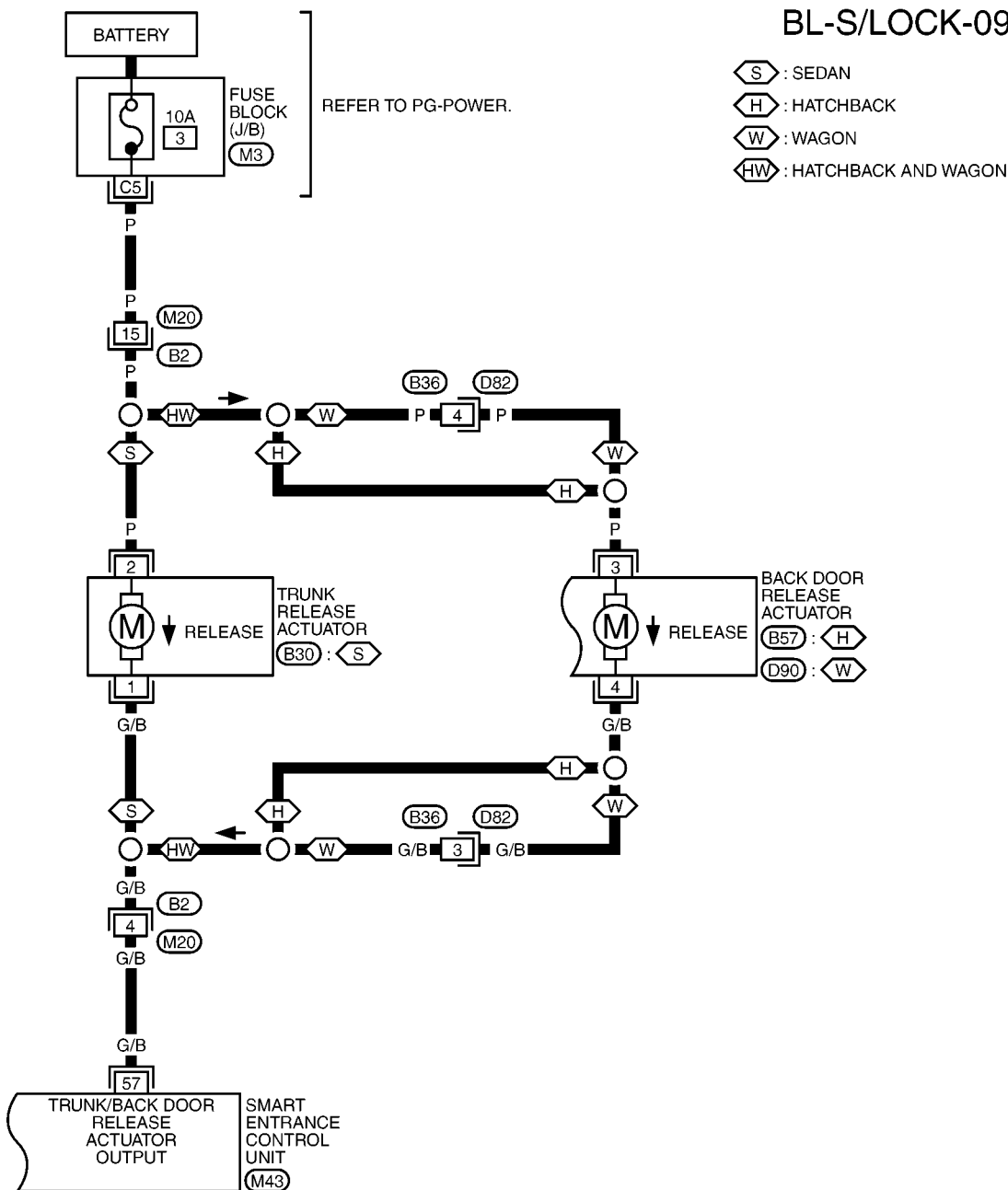


(D56), (D66)

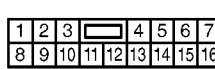
MKWA0958E

POWER DOOR LOCK — SUPER LOCK —

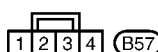
BL-S/LOCK-09



M43
GY

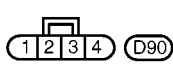
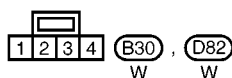


B2
BR



REFER TO THE FOLLOWING.

M3 - FUSE BLOCK-
JUNCTION BOX (J/B)



POWER DOOR LOCK — SUPER LOCK —

Terminal and Reference Value for Smart Entrance Control Unit

EIS005H9

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
5	B/R	Key switch	Key inserted (ON) → key removed from ignition key cylinder (OFF)	Battery voltage → 0
6	BR	Child lock switch	Locked (OFF) → Unlocked (ON)	5 → 0
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0
			Other than above (OFF)	5
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0
			Other than above (OFF)	5
16	G	Trunk room lamp switch (Back door switch)	Trunk (back door) open (ON) → close (OFF)	0 → Battery voltage
19	BR/W	Power window main switch (Trunk or back door release switch)	Press power window main switch (trunk or back door release switch)	5 → 0
20	BR	External trunk or back door release switch	Press the external trunk or back door release switch	5 → 0
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0 → Battery voltage
29	Y/G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
35	Y/B	Super lock status switch (Rear door RH side)	Super locked → Not super locked	0 → 5
36	R/W	Super lock status switch (Rear door LH side)	Super locked → Not super locked	0 → 5
39	BR/W	Rear door switch LH	Door open (ON) → close (OFF)	0 → Battery voltage
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0 → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0 → Battery voltage
45	R/Y	Rear door switch RH	Door open (ON) → close (OFF)	0 → Battery voltage
49	W/L	Power source (PTC)	—	Battery voltage
50	G	Super lock actuator set (Rear door)	Driver's door key cylinder Lock operation (Set)	0 → Battery voltage → 0
51	L/R	Door lock actuator lock (Driver side)	Door lock/unlock switch Lock operation	0 → Battery voltage → 0
52	Y	Door lock actuator unlock & super lock release (All doors)	Door lock/unlock switch Unlock operation	0 → Battery voltage → 0
			Driver's door key cylinder Unlock operation	
53	B	Ground	—	0
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch Lock operation	0 → Battery voltage → 0
55	W/B	Super lock actuator set (Driver side)	Driver's door key cylinder Lock operation (Set)	0 → Battery voltage → 0
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk (Back door) release actuator	Power window main switch (Trunk or back door release switch) Open operation	Battery voltage → 0

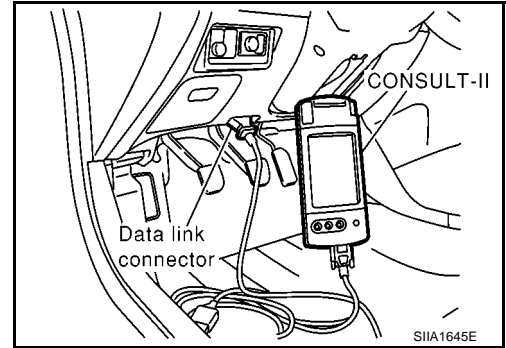
A
B
C
D
E
F
G
H
BL
J
K
L
M

POWER DOOR LOCK — SUPER LOCK —

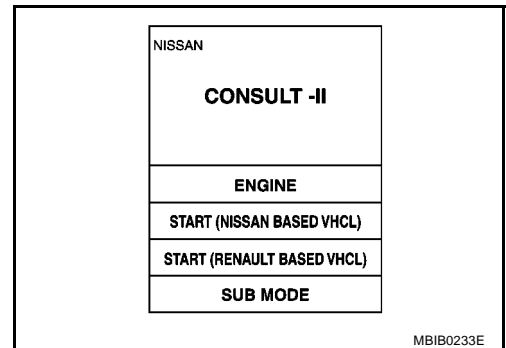
CONSULT- II Inspection Procedure

EIS005HA

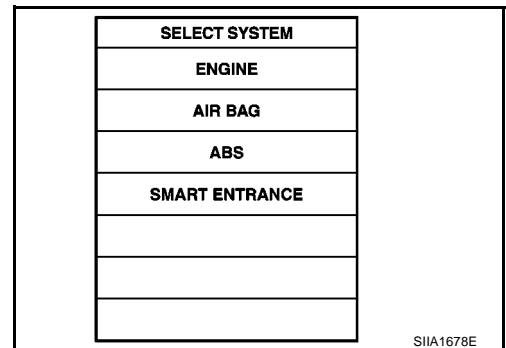
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



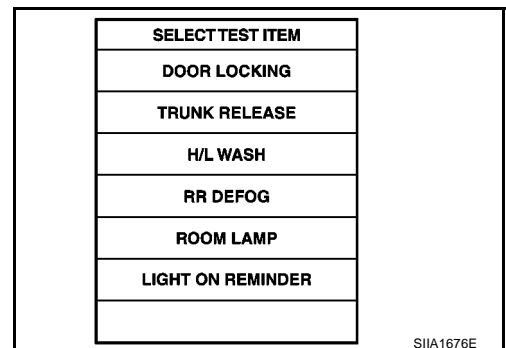
3. Turn ignition switch "ON".
4. Touch "START(NISSAN BASED VHCL)".



5. Touch "SMART ENTRANCE".



6. Touch "DOOR LOCK" or "TRUNK RELEASE".



POWER DOOR LOCK — SUPER LOCK —

7. Select diagnosis mode.
“DATA MONITOR” and “WORK SUPPROT” are available.

SELECT DIAG MODE
DATA MONITOR
WORK SUPPORT

SIIA1677E

A

B

C

D

E

F

G

H

BL

J

K

L

M

POWER DOOR LOCK — SUPER LOCK —

CONSULT- II Application Items

EIS005HB

DOOR LOCKING

DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
KEY IN DETECT	Indicates [ON/OFF] condition of key switch.
DOOR SW DR RR	Indicates [ON/OFF] condition of rear door switch (driver side).
DOOR SW AS RR	Indicates [ON/OFF] condition of rear door switch (passenger side).
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.

WORK SUPPORT

Monitored Item	Description
AUTO RE-LOCK	Auto re-lock function can be changed in this mode. The re-lock mode will be changed when "CHANGE MODE" on CONSULT-II screen is touched.
SELECTIVE UNLOCK	Selective unlock function can be changed in this mode. The unlock mode will be changed when "CHANGE SET" on CONSULT-II screen is touched.

TRUNK RELEASE

DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
INT TRUNK REL	Indicates [ON/OFF] condition of internal trunk release switch (sedan) or internal back door release switch (wagon).
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

WORK SUPPORT

Monitored Item	Description
TRUNK OPEN DELAY	This mode can be changed trunk release switch (sedan) or back door (wagon) release switch operation time.

CHILD LOCK

DATA MONITOR

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
CHILD LOCK SW	Indicates [ON/OFF] condition of child lock switch.
DR RR LOCK ON	Indicates [ON/OFF] condition of rear door switch.
EXT TRUNK REL	Indicates [ON/OFF] condition of external trunk release switch (sedan) or external back door release switch (wagon).
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (back door) open signal from trunk or back door release switch.

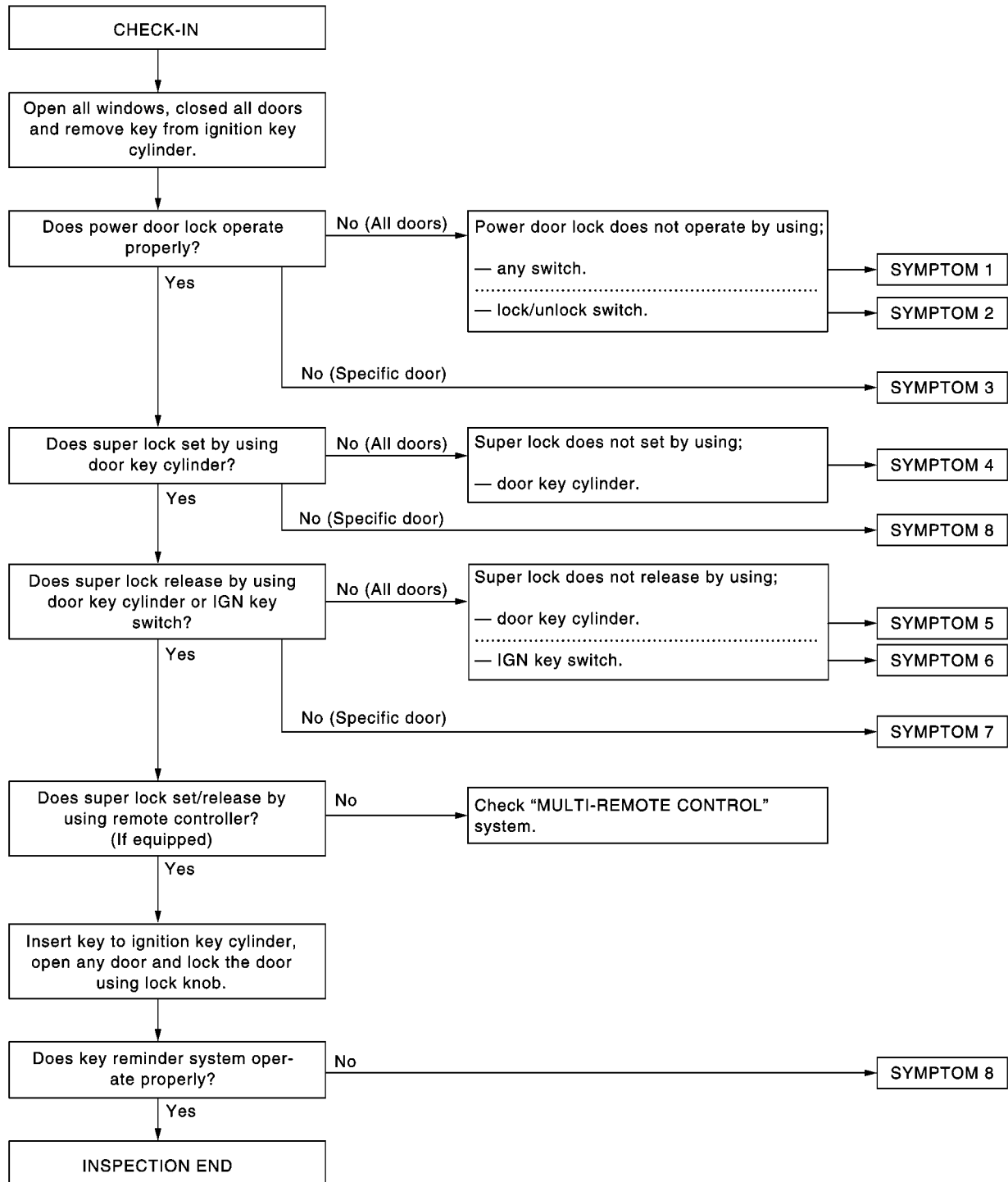
POWER DOOR LOCK — SUPER LOCK —

Trouble Diagnoses

EIS005HC

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-13, "CONSULT-II INSPECTION PROCEDURE"](#).

PRELIMINARY CHECK



After performing preliminary check, go to SYMPTOM CHART.

Before starting trouble diagnoses below, perform preliminary check.

Symptom numbers in the symptom chart correspond with those of Preliminary check.

SIIA1601E

POWER DOOR LOCK — SUPER LOCK —

SYMPTOM CHART

Symptom	Malfunctioning system	Reference page
SYMPTOM 1 Power door lock does not operate using any switch	1. Smart entrance control unit power supply and ground circuit check	BL-59
	2. Door lock actuator check	BL-62
	3. Replace smart entrance control unit.	—
SYMPTOM 2 Power door lock does not operate with lock/unlock switch.	1. Door lock/unlock switch check	BL-61
	2. Replace smart entrance control unit.	—
SYMPTOM 3 Specific door lock actuator does not operate.	1. Door lock actuator check	BL-62
	2. Replace smart entrance control unit.	—
SYMPTOM 4 Super lock cannot be set by door key cylinder.	1. Super lock actuator check	BL-71
	2. Key switch check	BL-70
	3. Ignition switch ON circuit check	BL-60
	4. Replace smart entrance control unit.	—
SYMPTOM 5 *Super lock cannot be released by door key cylinder.	1. Super lock actuator check	BL-71
	2. Replace smart entrance control unit.	—
SYMPTOM 6 *Super lock cannot be released by ignition key switch.	1. Super lock actuator check	BL-71
	2. Ignition switch "ON" circuit check	BL-60
	3. Replace smart entrance control unit.	—
SYMPTOM 7 Specific super lock actuator does not operate.	1. Super lock actuator check	BL-71
	2. Replace smart entrance control unit.	—
SYMPTOM 8 *Key reminder system does not operate.	1. Door switch check	BL-66
	2. Trunk room lamp switch or back door switch check	BL-68
	3. Key switch check	BL-70
	4. Replace smart entrance control unit.	—
SYMPTOM 9 Trunk or back door release actuator does not operate.	1. Trunk or back door release switch check	BL-72
	2. Trunk release actuator check (sedan)	BL-74
	3. Back door release actuator check (wagon)	BL-75
	4. Replace smart entrance control unit.	—
SYMPTOM 10 Child lock does not operate.	1. Child lock switch check	BL-77
	2. Super lock actuator check (Rear door)	BL-71
	3. Super lock status switch check	BL-78
	4. Replace smart entrance control unit.	—

*:Make sure the power door lock system operates properly.

POWER DOOR LOCK — SUPER LOCK —

Power Supply and Ground Circuit Check

EIS005HD

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit connector.
3. Check voltage between smart entrance control unit harness connector M43 terminal 49, 56 and ground.

49 (W/L) - Ground : Battery voltage

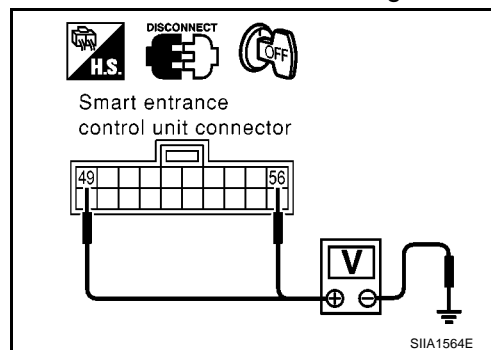
56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 40A fusible link (letter B, located in the fusible link and fuse box)
- 10A fuse (No. 12, located in the fusible link and fuse box)
- Condition of circuit breaker-1
- Harness for open or short smart entrance control unit power supply circuit.



2. CHECK GROUND CIRCUIT

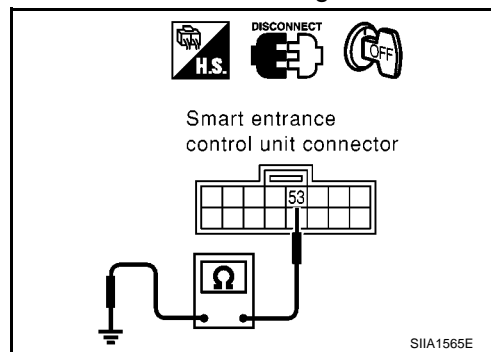
Check continuity between smart entrance control unit harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

OK >> Smart entrance control unit power supply and ground circuit are OK.

NG >> Check smart entrance control unit ground circuit for open or short.



POWER DOOR LOCK — SUPER LOCK —

Ignition Switch “ON” Circuit Check

EIS005HE

1. CHECK IGNITION ON SIGNAL

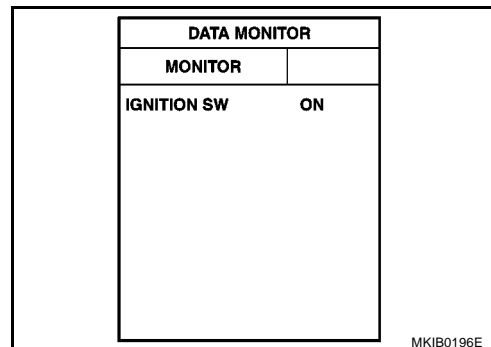
④ WITH CONSULT-II

Check ignition switch ON signal (“IGNITION SW”) in “DATA MONITOR” mode with CONSULT-II.

IGNITION SW

Turn ignition switch ON : ON

Turn ignition switch OFF : OFF



⊗ WITHOUT CONSULT-II

1. Turn ignition switch ON.
2. Check voltage between smart entrance control unit harness connector terminal 29 and ground.

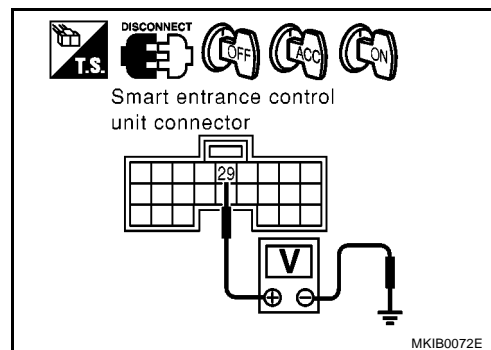
29 (Y/G) - Ground : Battery voltage

OK or NG

OK >> Ignition switch is OK.

NG >> Check the following.

- 10A fuse [No. 10, located in fuse block (J/B)]
- Harness for open or short between smart entrance control unit and fuse



POWER DOOR LOCK — SUPER LOCK —

Door Lock/Unlock Switch Check

EIS005HF

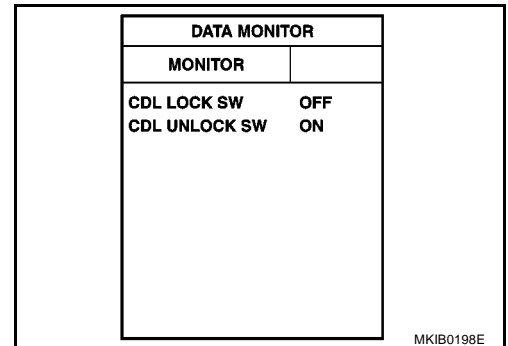
1. CHECK DOOR LOCK/UNLOCK SWITCH

WITH CONSULT-II

Check door lock/unlock switch signal ("CDL LOCK SW" or "CDL UNLOCK SW") in "DATA MONITOR" mode with CONSULT-II.

When door lock/unlock is locked : CDL LOCK SW ON

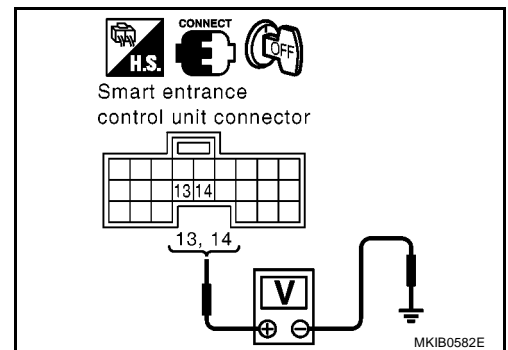
When door lock/unlock is unlocked : CDL UNLOCK SW ON



WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminals 13 or 14 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	13 (GY)	Ground	Locked	0
			Unlocked	Battery voltage
	14 (BR/Y)		Locked	Battery voltage
			Unlocked	0



OK or NG

- OK >> Door lock/unlock switch is OK.
- NG >> GO TO 2.

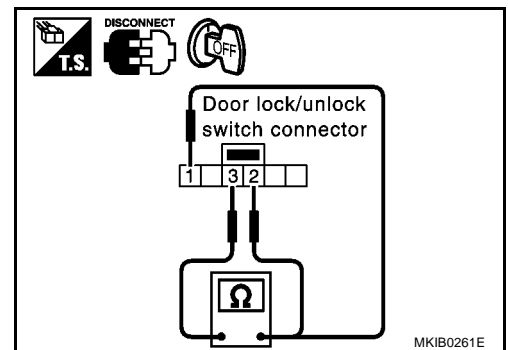
2. CHECK DOOR LOCK/UNLOCK SWITCH

- Turn ignition switch OFF.
- Disconnect door lock/unlock switch connector.
- Check continuity between door lock/unlock switch connector terminals 1, 2 and 3.

Terminal		Door lock/unlock switch condition	Continuity
1	3	Lock	Yes
2		Unlock	Yes

OK or NG

- OK >> Check the following.
 - Ground circuit for door lock/unlock switch
 - Harness for open short between door lock/unlock switch and smart entrance control unit
- NG >> Replace door lock/unlock switch.



POWER DOOR LOCK — SUPER LOCK —

EIS005HG

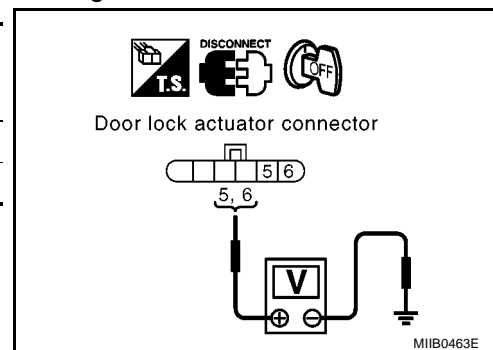
Door Lock Actuator Check

DRIVER SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (driver side) harness connector.
3. Check voltage between front door lock actuator harness connector and ground.

Connector	Terminals (wire color)		Door lock/ unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
D9	5 (Y)	Ground	Unlock	0 → Battery voltage → 0
	6 (L/R)		Lock	0 → Battery voltage → 0



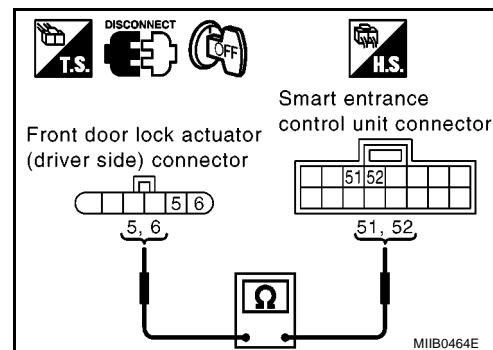
OK or NG

- OK >> Replace front door lock actuator (driver side).
 NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between front door lock actuator (driver side) harness connector D9 terminal 5, 6 and smart entrance control unit harness connector M43 terminal 51, 52.

5 (Y) - 52 (Y) : Continuity should exist.
6 (L/R) - 51 (L/R) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
 NG >> Repair or replace harness between smart entrance control unit and front door lock actuator (driver side).

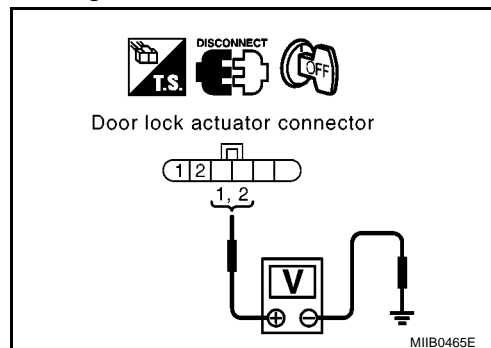
POWER DOOR LOCK — SUPER LOCK —

PASSENGER SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator (passenger side) harness connector.
3. Check voltage between front door lock actuator harness connector and ground.

Connector	Terminals (wire color)		Door lock/ unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
D38	1 (G/Y)	Ground	Unlock	0 → Battery voltage → 0
	2 (Y)		Lock	0 → Battery voltage → 0



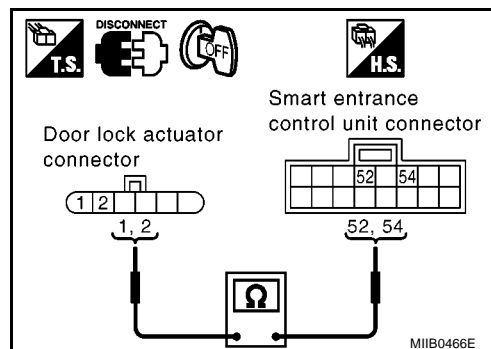
OK or NG

- OK >> Replace front door lock actuator (passenger side).
 NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between front door lock actuator (passenger side) harness connector D38 terminal 1, 2 and smart entrance control unit harness connector M43 terminal 52, 54.

1 (G/Y) - 54 (G/Y) : Continuity should exist.
2 (Y) - 52 (Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
 NG >> Repairer replace harness between smart entrance control unit and front door lock actuator (passenger side).

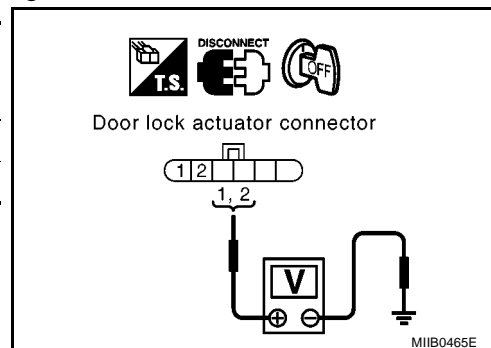
POWER DOOR LOCK — SUPER LOCK —

REAR LH SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator LH harness connector.
3. Check voltage between door lock actuator harness connector and ground.

Connector	Terminals (wire color)		Door lock/ unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
D56	1 (G/Y)	Ground	Unlock	0 → Battery voltage → 0
	2 (Y)		Lock	0 → Battery voltage → 0



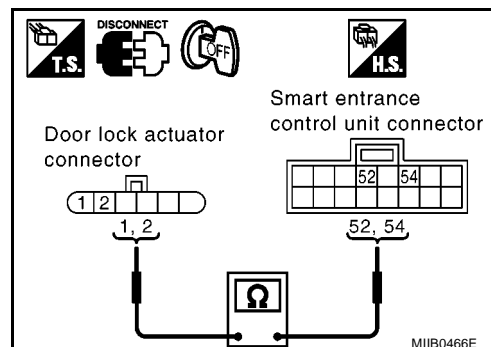
OK or NG

- OK >> Replace rear door lock actuator LH.
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator LH harness connector D56 terminal 1, 2 and smart entrance control unit harness connector M43 terminal 52, 54.

1 (G/Y) - 54 (G/Y) : Continuity should exist.
2 (Y) - 52 (Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness between smart entrance control unit and rear door lock actuator LH.

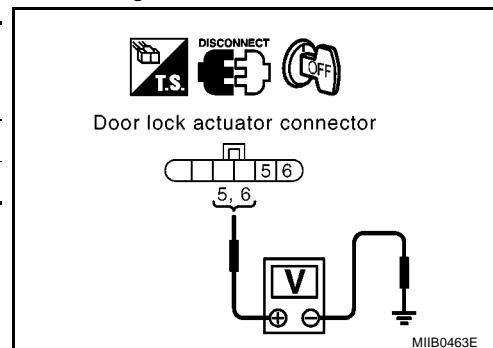
POWER DOOR LOCK — SUPER LOCK —

REAR RH SIDE

1. CHECK DOOR LOCK SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator RH harness connector.
3. Check voltage between rear door lock actuator RH harness connector and ground.

Connector	Terminals (wire color)		Door lock/ unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
D66	5 (Y)	Ground	Lock	0 → Battery voltage → 0
	6 (G/Y)		Unlock	0 → Battery voltage → 0



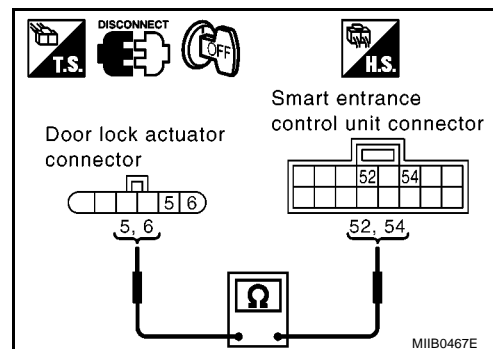
OK or NG

- OK >> Replace rear door lock actuator RH.
NG >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between rear door lock actuator RH harness connector D66 terminal 5, 6 and smart entrance control unit harness connector M43 terminal 52, 54.

5 (Y) - 52 (Y) : Continuity should exist.
6 (G/Y) - 54 (G/Y) : Continuity should exist.



OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness between smart entrance control unit and rear door lock actuator RH.

POWER DOOR LOCK — SUPER LOCK —

Door Switch Check

DRIVER SIDE

EIS005HH

1. CHECK DOOR SWITCH INPUT SIGNAL

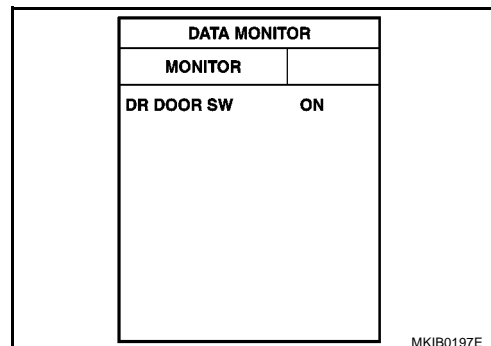
WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



WITHOUT CONSULT-II

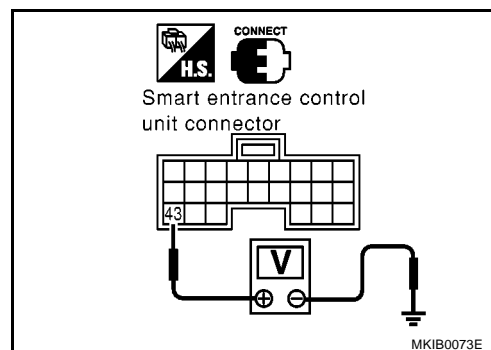
1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

OK >> Door switch (driver side) is OK.

NG >> GO TO 2.



2. CHECK DRIVER SIDE DOOR SWITCH

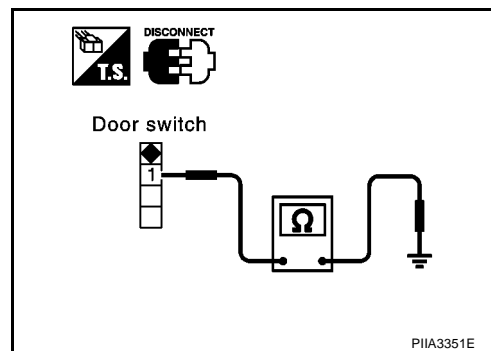
1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal		Door switch	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).

NG >> Replace front door switch (driver side).



POWER DOOR LOCK — SUPER LOCK —

EXCEPT DRIVER SIDE

1. CHECK OTHER DOORS SWITCHES INPUT SIGNAL

WITH CONSULT-II

Check other doors switch signal ("AS DOOR SW", "RR DOOR SW" or "RR RH DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

Each DOOR SW

Each door is open : ON

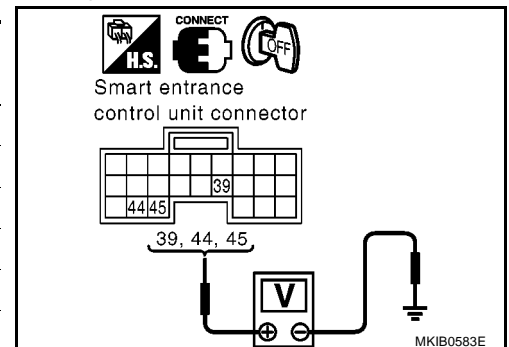
Each door is closed : OFF

DATA MONITOR	
MONITOR	
AS DOOR SW	ON
RR LH DOOR SW	ON
RR RH DOOR SW	ON

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Item	Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Rear door LH or RH	M42	39 (BR/W)	Ground	Open	0
				Closed	Battery voltage
Passenger side		44 (L/OR)		Open	0
				Closed	Battery voltage
Rear door LH or RH		45 (R/Y)		Open	0
				Closed	Battery voltage



OK or NG

OK >> Door switch OK.

NG >> GO TO 2.

2. CHECK DOOR SWITCHES

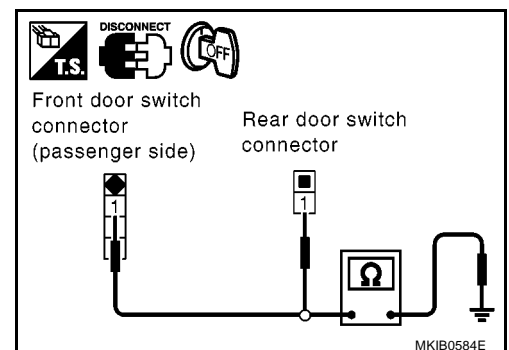
1. Disconnect each door switches harness connector.
2. Check continuity between door switch terminal 1 and ground part of door switch.

Terminal		Condition	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and door switch.

NG >> Replace malfunction door switch.



POWER DOOR LOCK — SUPER LOCK —

Trunk Room Lamp Switch or Back Door Switch Check

EIS005H

TRUNK ROOM LAMP SWITCH

1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

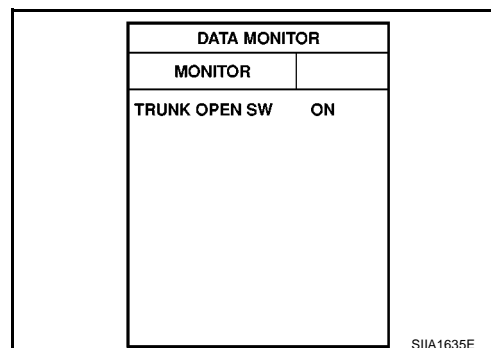
With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Trunk lid open : ON

Trunk lid close : OFF



Without CONSULT- II

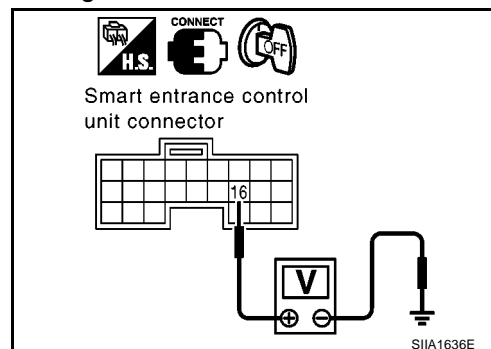
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Trunk lid	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Trunk room lamp switch is OK.

NG >> GO TO 2



2. CHECK TRUNK ROOM LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk room lamp switch harness connector.
3. Check continuity between trunk room lamp switch terminals 1 and 2.

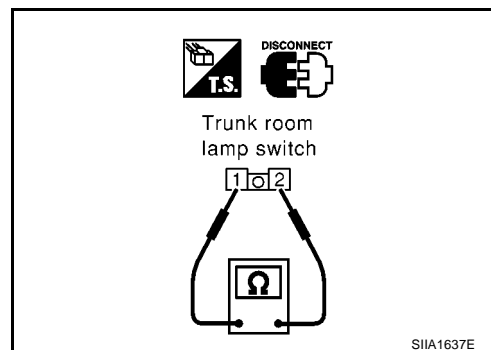
Terminal		Trunk lid condition	Continuity
1	2		
		Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Trunk room lamp switch ground circuit
- Harness for open or short between smart entrance control unit and trunk room lamp switch

NG >> Replace trunk room lamp switch.



POWER DOOR LOCK — SUPER LOCK —

BACK DOOR SWITCH

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

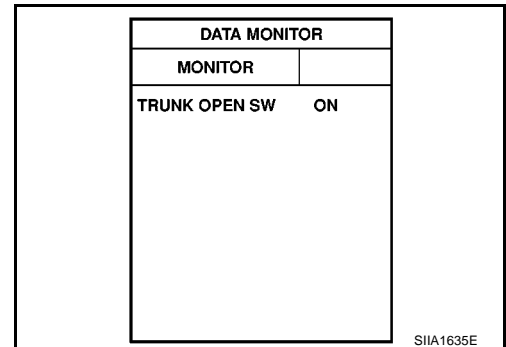
④ With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Back door open : ON

Back door close : OFF



⊗ Without CONSULT- II

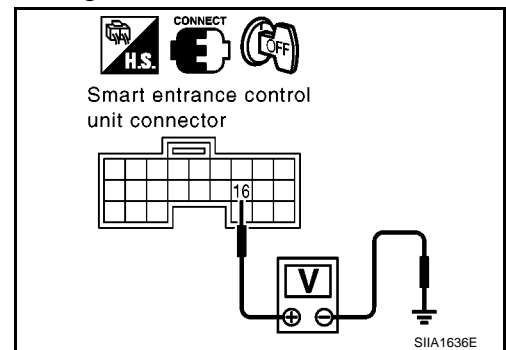
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Back door	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Back door switch is OK.

NG >> GO TO 2



2. CHECK BACK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door release actuator connector.
3. Check continuity between back door release actuator terminals 1 and 2.

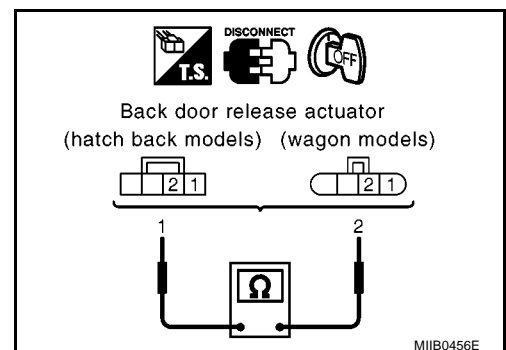
Terminal		Back door condition	Continuity
1	2		
		Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Back door release actuator ground circuit
- Harness for open or short between smart entrance control unit and back door release actuator

NG >> Replace back door release actuator.



POWER DOOR LOCK — SUPER LOCK —

Key Switch Check

EIS005HJ

1. CHECK KEY SWITCH INPUT SIGNAL

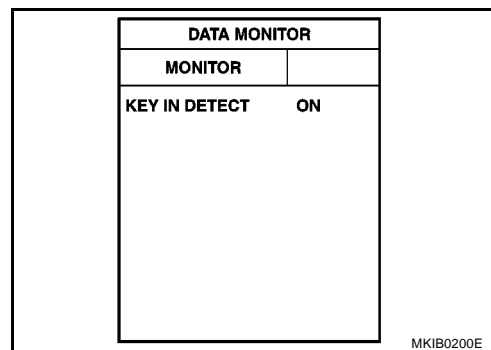
WITH CONSULT-II

Check key switch signal ("KEY IN DETECT") in "DATA MONITOR" mode with CONSULT-II.

KEY IN DETECT

Key is inserted in ignition cylinder : ON

Key is removed from ignition key cylinder : OFF

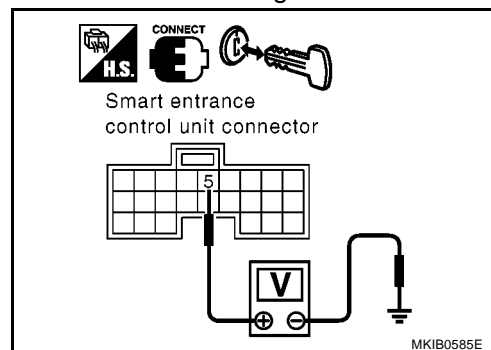


MKIB0200E

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminal 5 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	5 (B/R)	Ground	Key is inserted	Battery voltage
			Key is removed	0



MKIB0585E

OK or NG

OK >> Key switch is OK.

NG >> GO TO 2.

2. CHECK KEY SWITCH

1. Disconnect key switch connector.
2. Check continuity between key switch terminal 1 and 2.

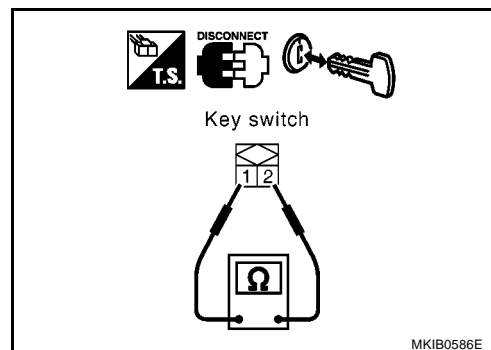
Terminal		Condition	Continuity
1	2		
		Key is inserted	Yes
		Key is removed	No

OK or NG

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



MKIB0586E

POWER DOOR LOCK — SUPER LOCK —

Super Lock Actuator Check FRONT DOOR

EIS005HK

1. CHECK OUTPUT SIGNAL FOR SUPER LOCK ACTUATOR

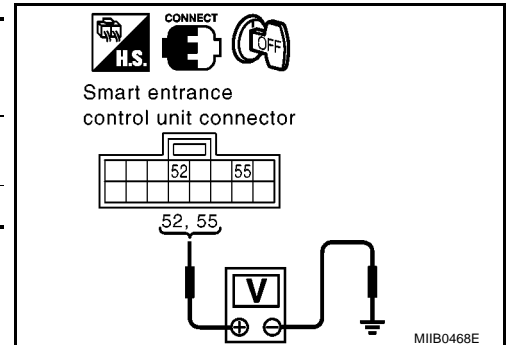
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	52 (Y)	Ground	Unlock (Released)	0 → Battery voltage → 0
	55 (W/B)		Lock (Set)	0 → Battery voltage → 0

OK or NG

OK >> GO TO 2.

NG >> Replace smart entrance control unit.



2. CHECK SUPER LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect smart entrance control unit and front door lock actuator assembly connector.
- Check continuity between smart entrance control unit harness connector M43 terminal 52, 55 and front door lock actuator harness connector D9 (driver side) or D38 (passenger side) terminal 1, 2 (driver side) or 5, 6 (passenger side).

Driver side

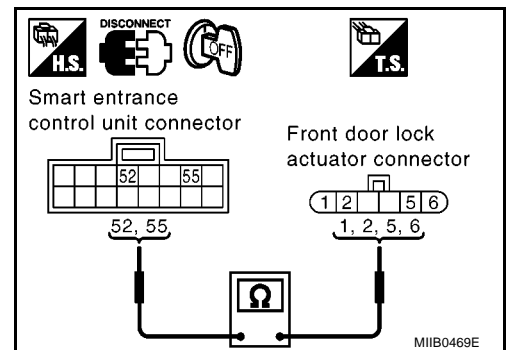
52 (Y) - 2 (Y) : Continuity should exist.

55 (W/B) - 1 (W/B) : Continuity should exist.

Passenger side

52 (Y) - 5 (Y) : Continuity should exist.

55 (W/B) - 6 (W/B) : Continuity should exist.



OK or NG

OK >> Replace front door lock actuator (driver side) or (passenger side).

NG >> Repair or replace harness between smart entrance control unit and front door lock actuator (driver side) or (passenger side).

REAR DOOR

1. CHECK OUTPUT SIGNAL FOR SUPER LOCK ACTUATOR

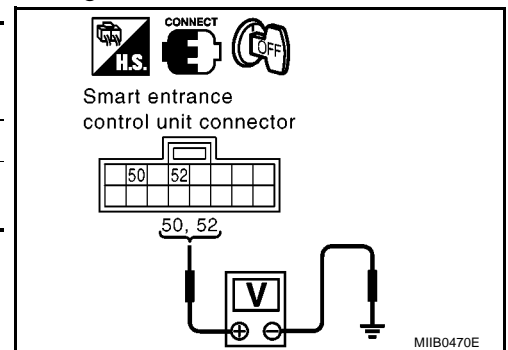
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Door lock/unlock switch condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	50 (G)	Ground	Lock (Set)	0 → Battery voltage → 0
	52 (Y)		Unlock (Released)	0 → Battery voltage → 0

OK or NG

OK >> GO TO 2

NG >> Replace smart entrance control unit.



POWER DOOR LOCK — SUPER LOCK —

2. CHECK SUPER LOCK ACTUATOR

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit and rear door lock actuator assembly connector.
3. Check continuity between smart entrance control unit harness connector M43 terminal 50, 52 and rear door lock actuator harness connector D56 (LH) terminal 2, 5 or D66 (RH) terminal 2, 5.

Rear LH

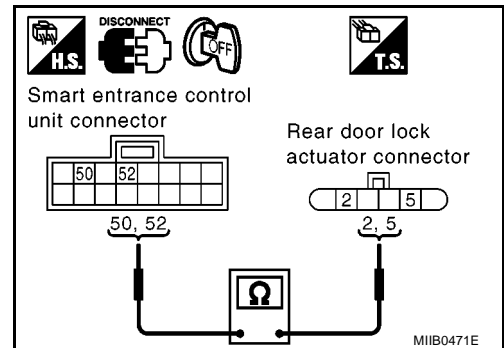
50 (G) - 5 (G) : Continuity should exist.

52 (Y) - 2 (Y) : Continuity should exist.

Rear RH

50 (G) - 2 (G) : Continuity should exist.

52 (Y) - 5 (Y) : Continuity should exist.



OK or NG

OK >> Replace rear door lock actuator LH or RH.

NG >> Repair or replace harness between smart entrance control unit and rear door lock actuator LH or RH.

Trunk or Back Door Release Switch Check EXTERNAL SWITCH

E/S005HL

1. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

With CONSULT-II

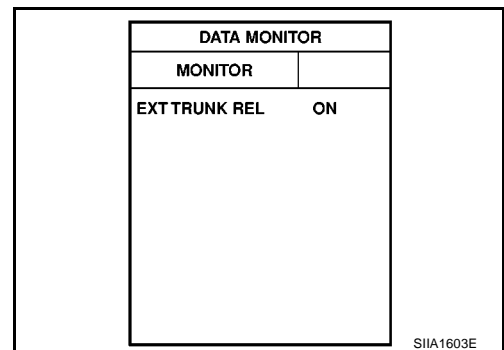
Check external trunk or back door release switch input signal "EXT TRUNK REL" in "DATA MONITOR" mode with CONSULT- II.

Release switch is pushed (open):

EXT TRUNK REL ON

Release switch is released (close):

EXT TRUNK REL OFF



Without CONSULT- II

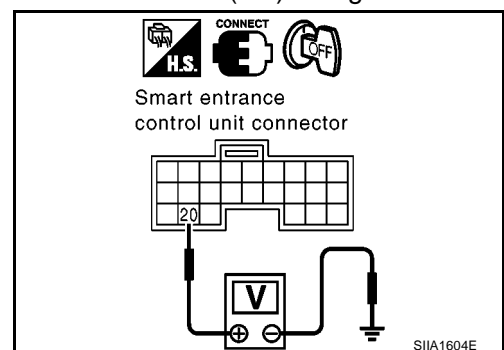
Check voltage between smart entrance control unit harness connector M41 terminal 20(BR) and ground.

Connector	Terminal (wire color)		Release switch	Voltage (V) (Approx.)
	(+)	(-)		
M41	20 (B/R)	Ground	Pushed	0
			Released	5

OK or NG

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2



POWER DOOR LOCK — SUPER LOCK —

2. CHECK EXTERNAL TRUNK OR BACK DOOR RELEASE SWITCH

1. Turn ignition switch OFF.
2. Disconnect external trunk or back door release switch connector.
3. Check continuity between external trunk or back door release switch terminals 1 and 2.

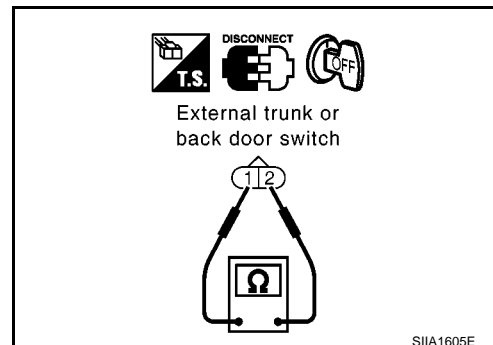
Terminal		Release switch	Continuity
1	2	Pushed	Yes
		Released	No

OK or NG

OK >> Check the following.

- Harness for open or short between external trunk or back door release switch and smart entrance control unit
- External trunk or back door release switch ground circuit

NG >> Replace external trunk or back door release switch.



INTERNAL SWITCH (POWER WINDOW MAIN SWITCH)

1. CHECK TRUNK OR BACK DOOR RELEASE SWITCH INPUT SIGNAL

With CONSULT-II

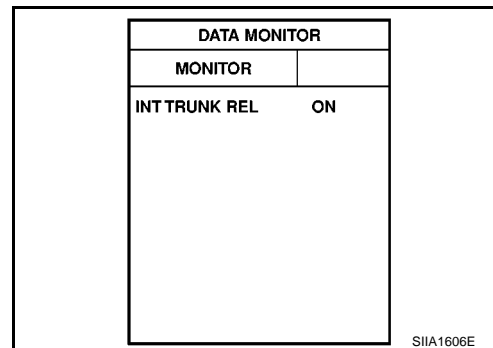
Check trunk or back door release switch input signal "INT TRUNK REL" in "DATA MONITOR" mode with CONSULT- II.

Release switch is pushed (open):

INT TRUNK REL ON

Release switch is released (close):

INT TRUNK REL OFF



Without CONSULT- II

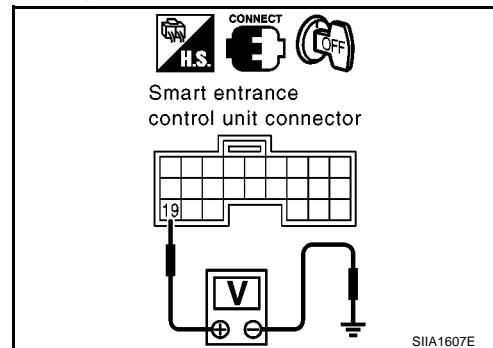
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Release switch	Voltage (V) (Approx.)
	(+)	(-)		
M41	19 (BR/W)	Ground	Pushed	0
			Released	5

OK or NG

OK >> Trunk or back door release switch is OK.

NG >> GO TO 2



POWER DOOR LOCK — SUPER LOCK —

2. CHECK TRUNK OR BACK DOOR RELEASE SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch (trunk or back door release switch) connector.
3. Check continuity between power window main switch (trunk or back door release switch) terminals 3 and 12.

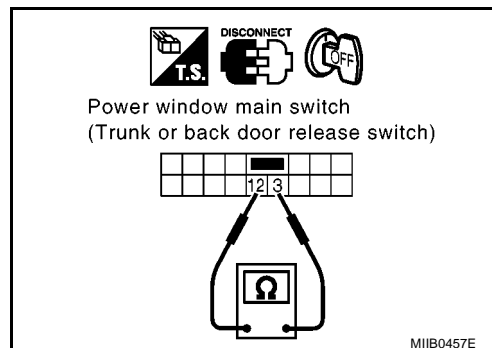
Terminals		Release switch	Continuity
3	12	Pushed	Yes
		Released	No

OK or NG

OK >> Check the following.

- Harness for open or short between power window main switch (trunk or back door release switch) and smart entrance control unit
- Power window main switch (trunk or back door release switch) ground circuit

NG >> Replace power window main switch (trunk or back door release switch).



Trunk Release Actuator Check (Sedan)

EIS005HM

1. CHECK POWER SUPPLY CIRCUIT

Check voltage between trunk release actuator harness connector B30 terminal 2 and ground.

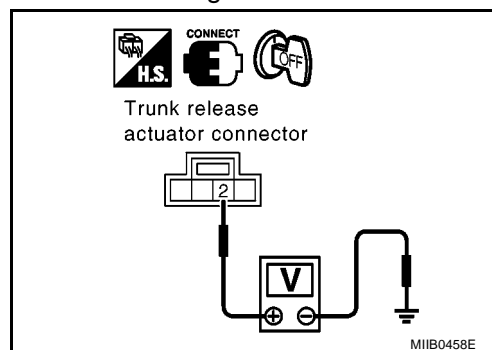
2 (P) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

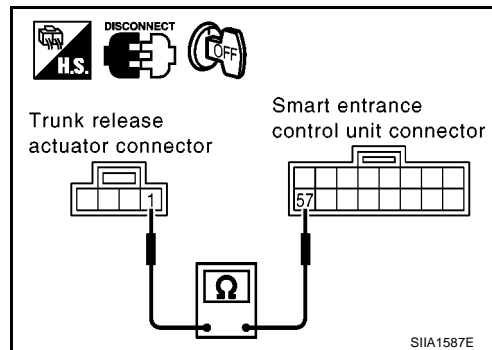
- 10A fuse (No. 3, located in the fusible link and fuse box).
- Harness for open or short between trunk release actuator and fuse.



2. CHECK TRUNK RELEASE ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect trunk release actuator and smart entrance control unit harness connector.
3. Check continuity between trunk release actuator harness connector B30 terminal 1 and smart entrance control unit harness connector M43 terminal 57.

1 (G/B) - 57 (G/B) : Continuity should exist.



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between smart entrance control unit and trunk release actuator.

POWER DOOR LOCK — SUPER LOCK —

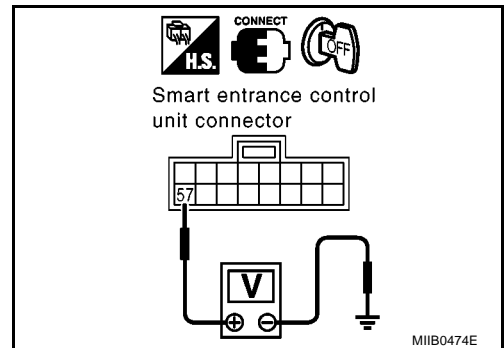
3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Trunk release switch: ON	0
			Other than above	Battery voltage

OK or NG

- OK >> Replace trunk release actuator.
 NG >> Replace smart entrance control unit.



EIS005HN

Back Door Release Actuator Check (Wagon)

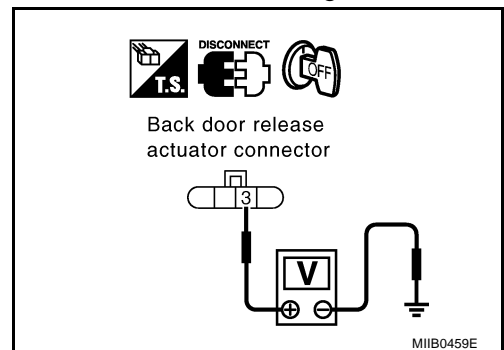
1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect back door release actuator harness connector.
3. Check voltage between back door release actuator harness connector D90 terminal 3 and ground.

3 (P) - Ground : Battery voltage

OK or NG

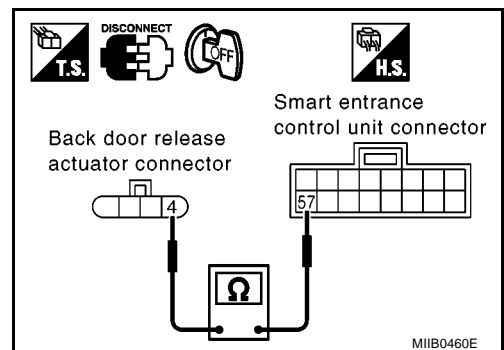
- OK >> GO TO 2.
 NG >> Check the following.
- 10A fuse (No. 3, located in the fusible link and fuse box).
 - Harness for open or short between back door release actuator and fuse.



2. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Disconnect smart entrance control unit harness connector.
2. Check continuity between back door release actuator harness connector D90 terminal 4 and smart entrance control unit harness connector M43 terminal 57.

4 (G/B) - 57 (G/B) : Continuity should exist.



OK or NG

- OK >> GO TO 3.
 NG >> Repair or replace harness between smart entrance control unit and back door release actuator.

POWER DOOR LOCK — SUPER LOCK —

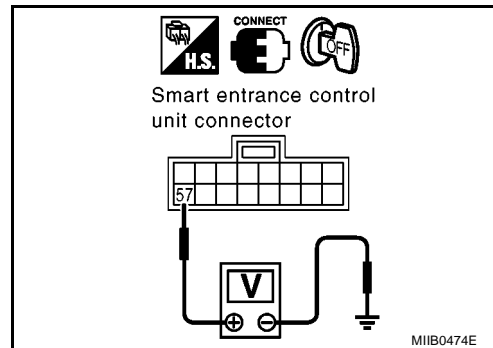
3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Back door release switch: ON	0
			Other than above	Battery voltage

OK or NG

- OK >> Replace back door release actuator.
 NG >> Replace smart entrance control unit.



Back Door Release Actuator Check (Hatch back)

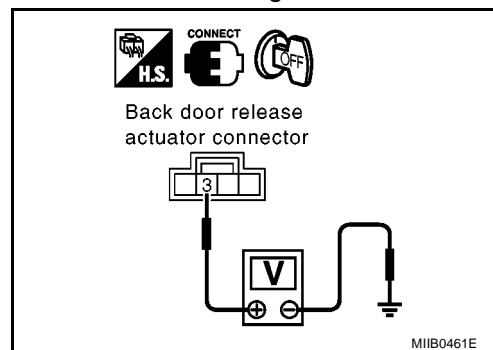
1. CHECK POWER SUPPLY CIRCUIT

Check voltage between back door release actuator harness connector B57 terminal 3 and ground.

3 (P) - Ground : Battery voltage

OK or NG

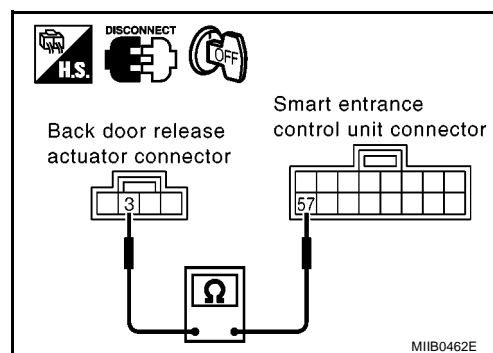
- OK >> GO TO 2.
 NG >> Check the following.
- 10A fuse (No. 3, located in the fusible link and fuse box).
 - Harness for open or short between back door release actuator and fuse.



2. CHECK BACK DOOR RELEASE ACTUATOR CIRCUIT

1. Turn ignition switch.
2. Disconnect back door release actuator and smart entrance control unit harness connector.
3. Check continuity between back door release actuator harness connector B57 terminal 4 and smart entrance control unit harness connector M43 terminal 57.

4 (G/B) - 57 (G/B) : Continuity should exist.



OK or NG

- OK >> GO TO 3.
 NG >> Repair or replace harness between smart entrance control unit and back door release actuator.

POWER DOOR LOCK — SUPER LOCK —

3. CHECK SMART ENTRANCE CONTROL UNIT OUTPUT SIGNAL

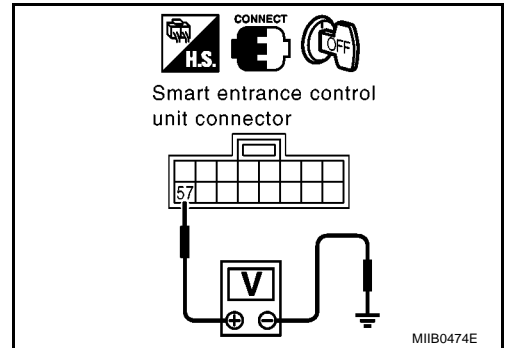
1. Connect trunk release actuator and smart entrance control unit connector.
2. Check voltage between smart entrance control unit connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	57 (G/B)	Ground	Back door release switch: ON	0
			Other than above	Battery voltage

OK or NG

OK >> Replace back door release actuator.

NG >> Replace smart entrance control unit.



EIS00610

Child Lock Switch Check

1. CHECK CHILD LOCK SWITCH INPUT SIGNAL

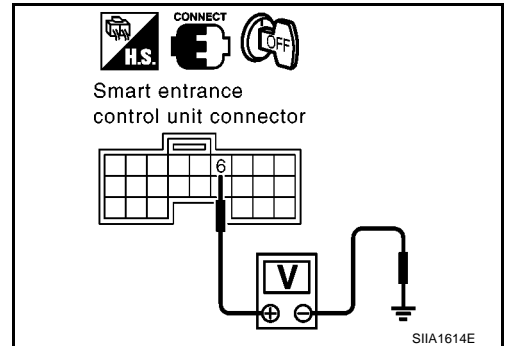
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Child lock switch	Voltage (V) (Approx.)
	(+)	(-)		
M41	6 (BR)	Ground	Unlock operation	0
			Lock operation	5

OK or NG

OK >> Child lock switch is OK.

NG >> GO TO 2.



SIIA1614E

2. CHECK CHILD LOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check continuity between power window main switch terminals 3 and 13.

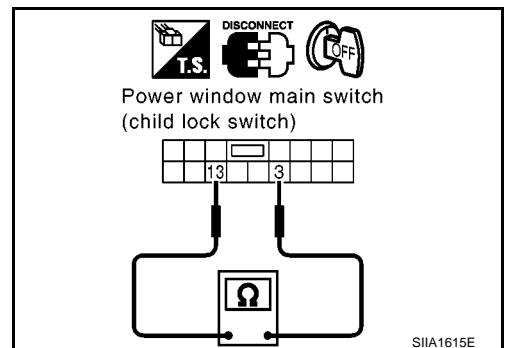
Terminals		Child lock switch	Continuity
3	13	Unlock operation	Yes
		Lock operation	No

OK or NG

OK >> Check the following.

- Harness for open or short between power window main switch and smart entrance control unit
- Power window main switch ground circuit

NG >> Replace power window main switch.



SIIA1615E

POWER DOOR LOCK — SUPER LOCK —

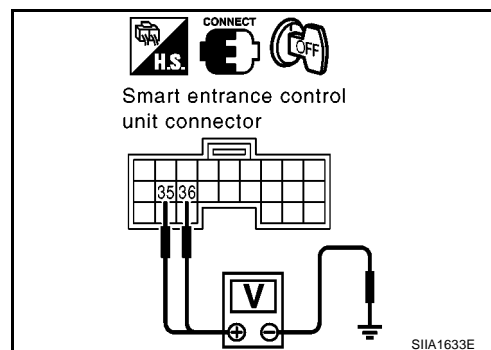
Super Lock State Switch Check

EIS0061P

1. CHECK SUPER LOCK STATE SWITCH INPUT SIGNAL

Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Rear door lock actuator condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	35 (Y/B)	Ground	Super locked	0
			Not super locked	5
	36 (R/W)		Super locked	0
			Not super locked	5



OK or NG

- OK >> Super lock status switch is OK.
- NG >> GO TO 2

2. CHECK REAR DOOR LOCK ACTUATOR GROUND CIRCUIT

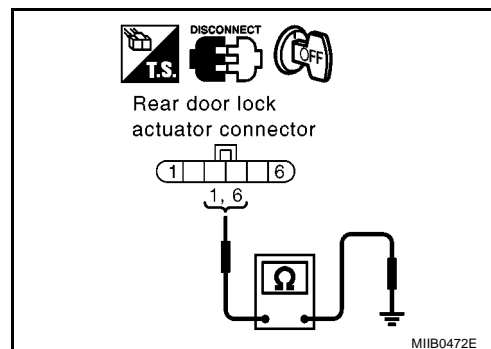
1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator connector.
3. Check continuity between rear door lock actuator terminals 6 (LH) or 1 (RH) and ground.

6 (B) - Ground : Continuity should exist.

1 (B) - Ground : Continuity should exist.

OK or NG

- OK >> Harness for open or short between rear door lock actuator and smart entrance control unit
- NG >> Repair or replace harness.

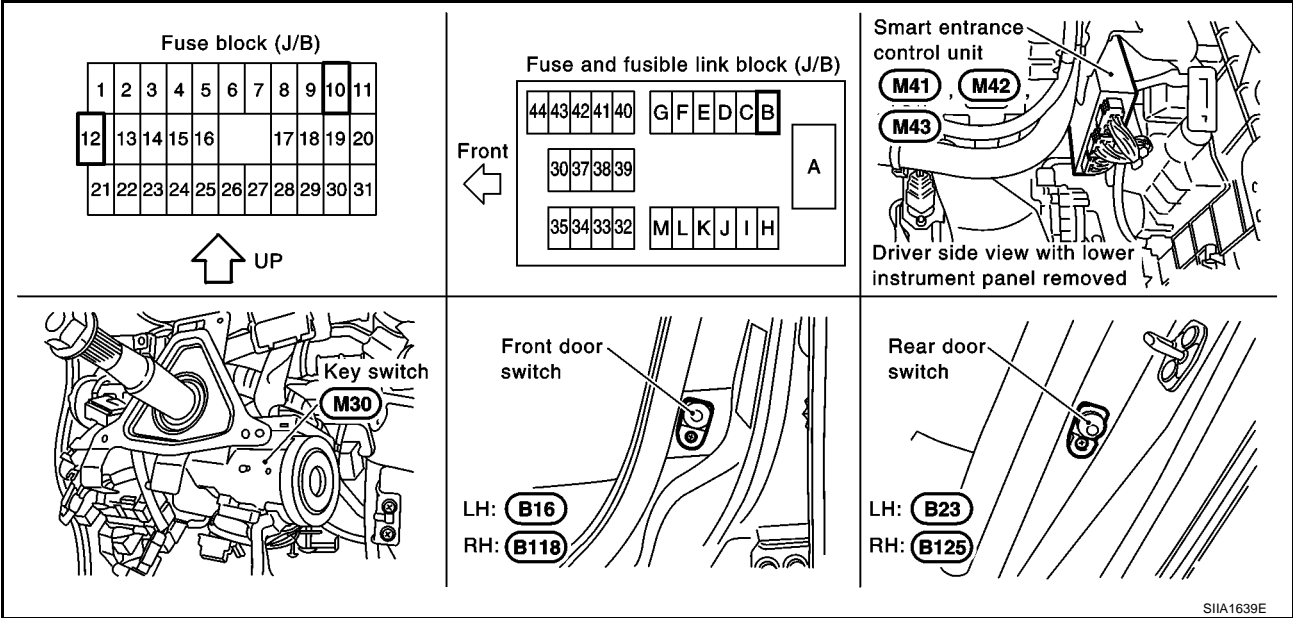


MULTI-REMOTE CONTROL SYSTEM

PFP:28596

Component Parts and Harness Connector Location

EIS005HQ



MULTI-REMOTE CONTROL SYSTEM

EIS005HR

System Description

INPUTS

Power is supplied at all times

- through 10A fuse (No.12, located in the fusible link and fuse box)
- to smart entrance control unit terminal 56 and
- to key switch terminal 1.
- through 40A fusible link (letter B, located in the fusible link and fuse box)
- to smart entrance control unit terminal 49.

When the key switch is ON (Ignition key is inserted in key cylinder), power is supplied

- through key switch terminal 2
- to smart entrance control unit terminal 5.

When the front door switch (driver side) is ON (door is open), ground supplied

- to smart entrance control unit terminal 43
- through front door switch (driver side) terminal 1
- through front door switch (drive side) case ground.

When the front door switch (passenger side) is ON (door is open), ground supplied

- to smart entrance control unit terminal 44
- through front door switch (passenger side) terminal 1
- through front door switch (passenger side) case ground.

When the rear door switch (LH) are ON (door is open), ground is supplied

- to smart entrance control unit terminal 45(LHD models) or 39(RHD models)
- through rear door switch (LH) terminal 1
- through rear door switch (LH) case ground.

When the rear door switch (RH) are ON (door is open), ground is supplied

- to smart entrance control unit terminal 39(LHD models) or 45(RHD models)
- through rear door switch (RH) terminal 1
- through rear door switch (RH) case ground.

Remote controller signal is inputted to smart entrance control unit (The antenna of the system is combined with smart entrance control unit).

The multi-remote control system controls operation of the

- power door lock
- hazard reminder

OPERATED PROCEDURE

Power Door Lock Operation

Models with super lock

Smart entrance control unit receives a LOCK signal from remote controller. Smart entrance control unit locks all doors with input of LOCK signal from remote controller.

When an UNLOCK signal is sent from remote controller once, driver's door will be unlocked.

Then, if an UNLOCK signal is sent from remote controller again within 5 seconds, all door will be unlocked.

Models without super lock

Smart entrance control unit receives a LOCK/UNLOCK signal from remote controller. Smart entrance control unit locks/unlocks all doors with input of LOCK/UNLOCK signal from remote controller.

Hazard Reminder

When the doors are locked or unlocked by remote controller, supply power to hazard warning lamp flashes as follows

- LOCK operation: Flash once
- UNLOCK operation: Flash twice

Remote Controller ID Code Entry

A maximum of four remote controllers can be entered.

To enter ID code entry, the following signals must be input to the smart entrance control unit.

MULTI-REMOTE CONTROL SYSTEM

- Ignition switch (ON)
- Signal from remote controller

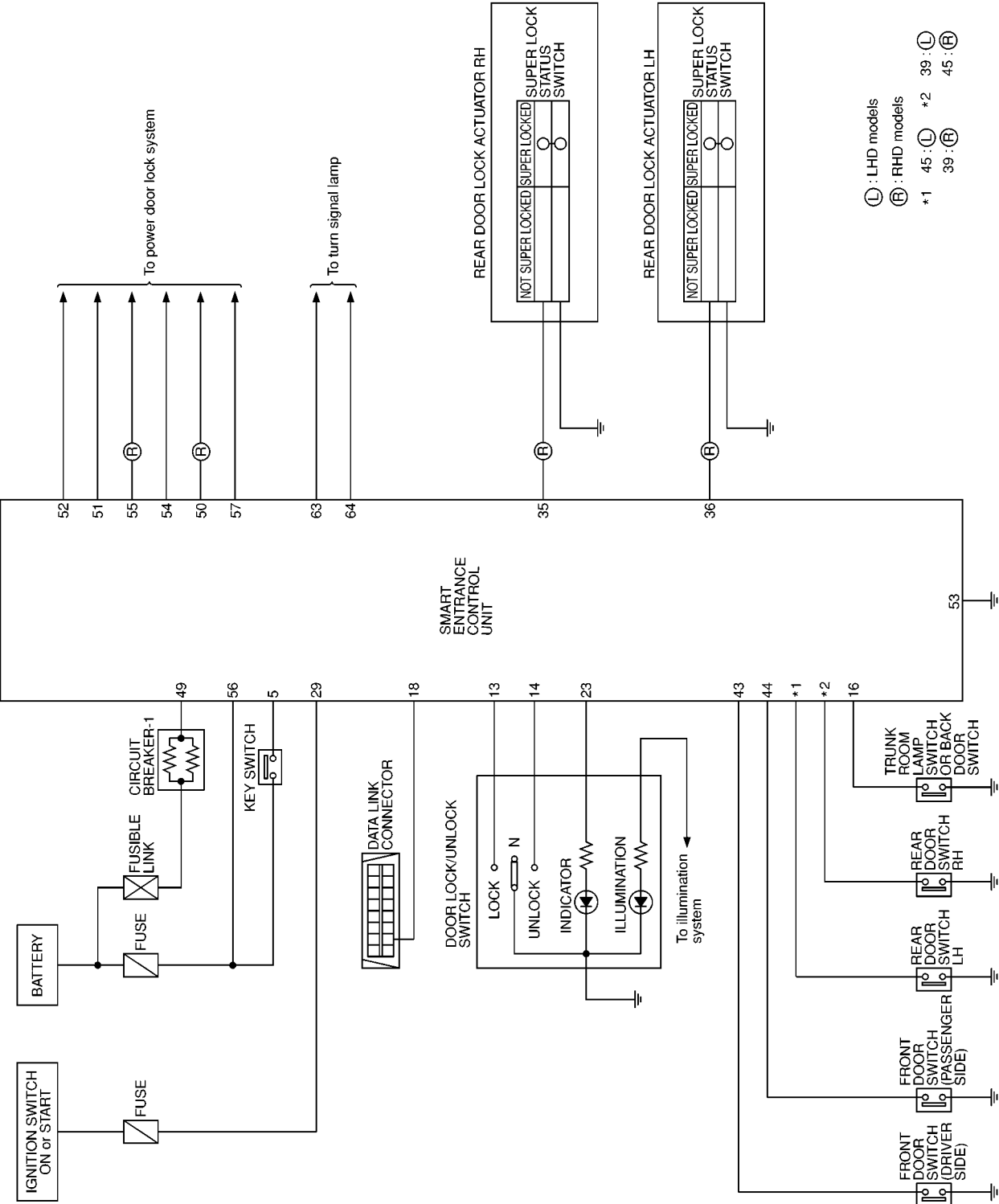
For detailed procedure, refer to [BL-103, "ID Code Entry Procedure"](#)

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MULTI-REMOTE CONTROL SYSTEM

Schematic

EIS005HS

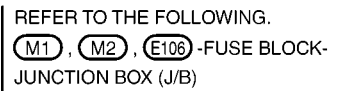


MKWA0112E

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M

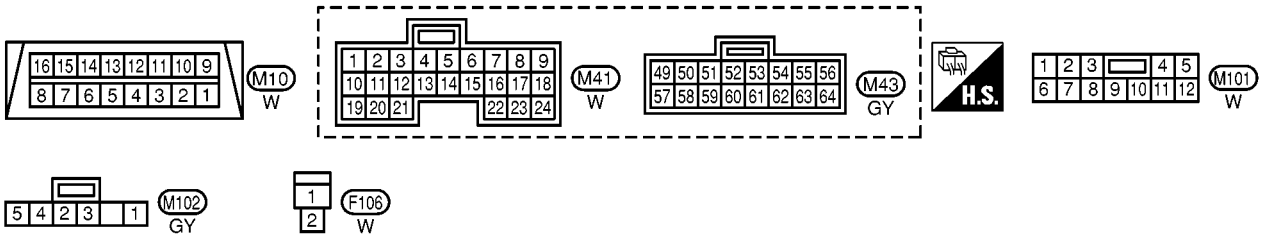
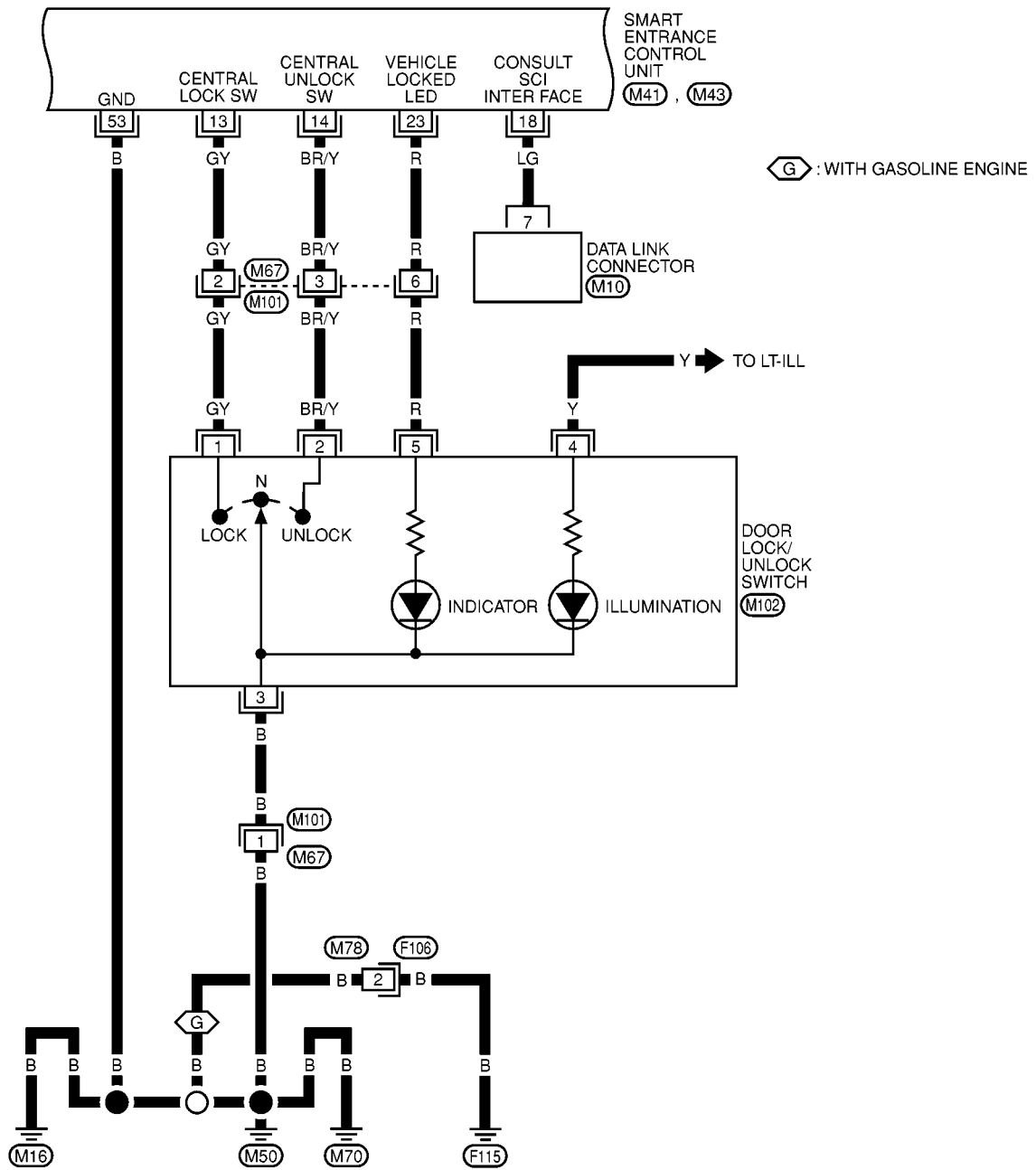
EIS005HT

BL



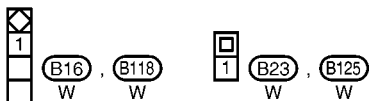
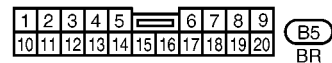
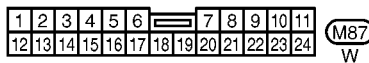
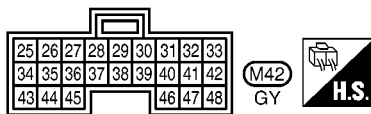
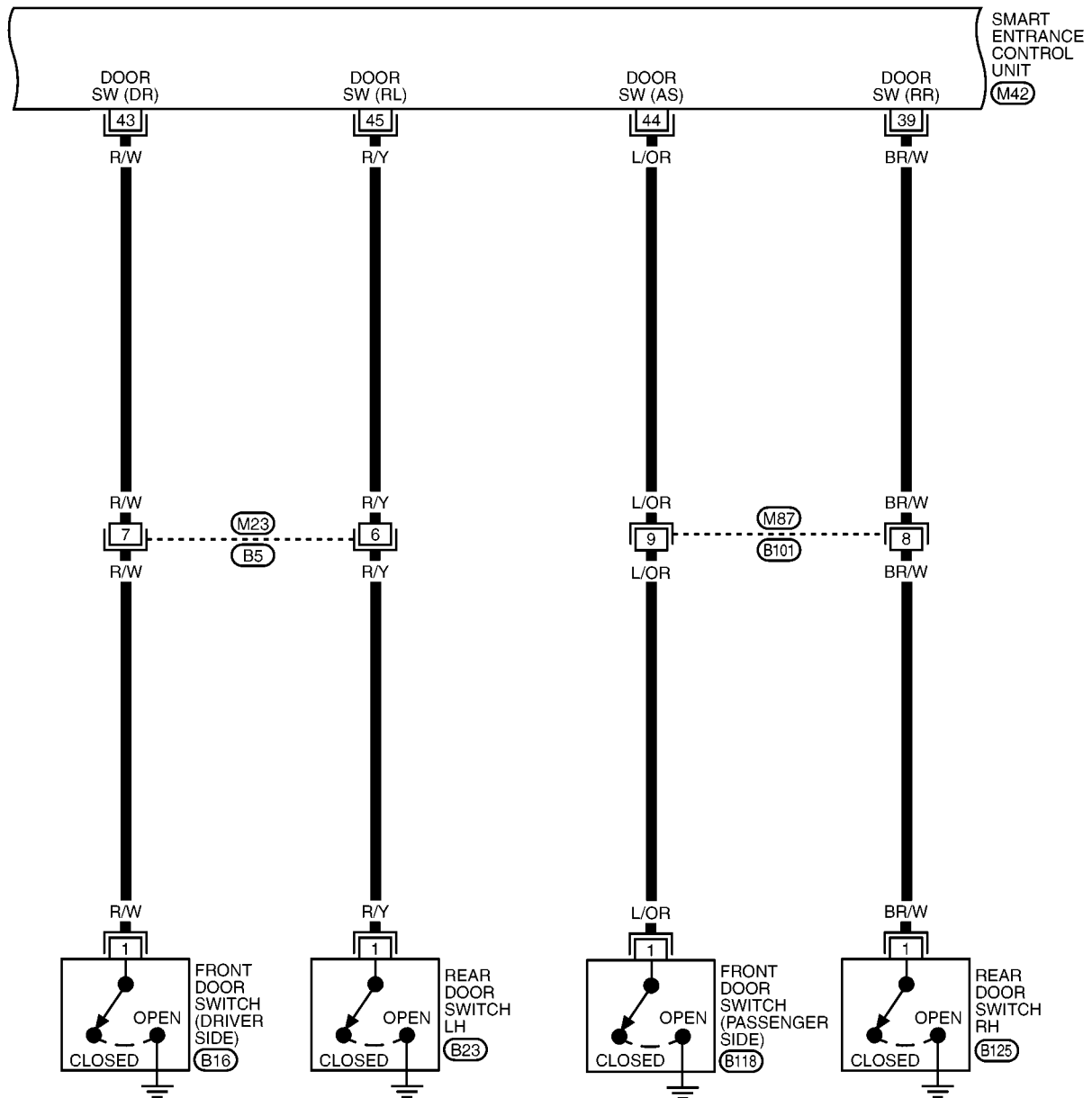
MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-02



MKWA0679E

BL-MULTI-03



MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-04

TRUNK/
BACK DOOR
OPEN
SW

SMART
ENTRANCE
CONTROL
UNIT
(M41)

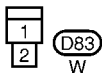
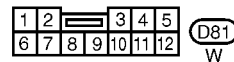
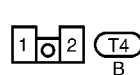
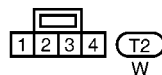
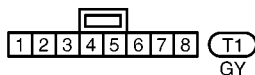
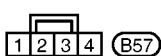
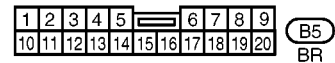
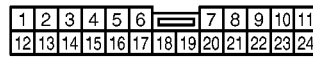
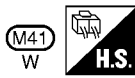
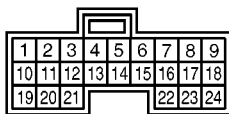
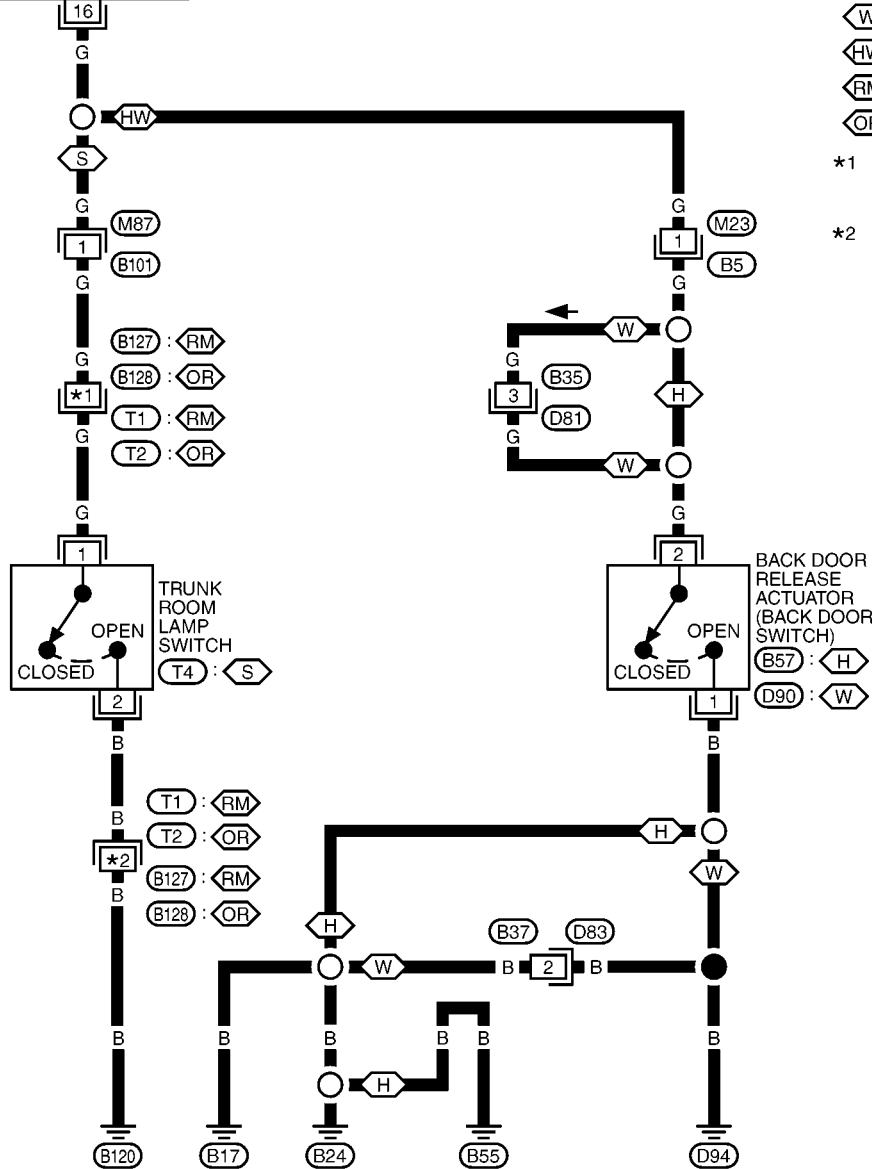
- (S) : SEDAN
(H) : HATCHBACK
(W) : WAGON
(HW) : HATCHBACK AND WAGON
(RM) : WITH REARVIEW MONITOR
(OR) : WITHOUT REARVIEW MONITOR

*1 3 : (RM)

1 : (OR)

*2 4 : (RM)

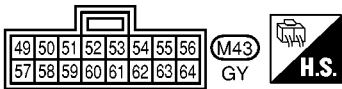
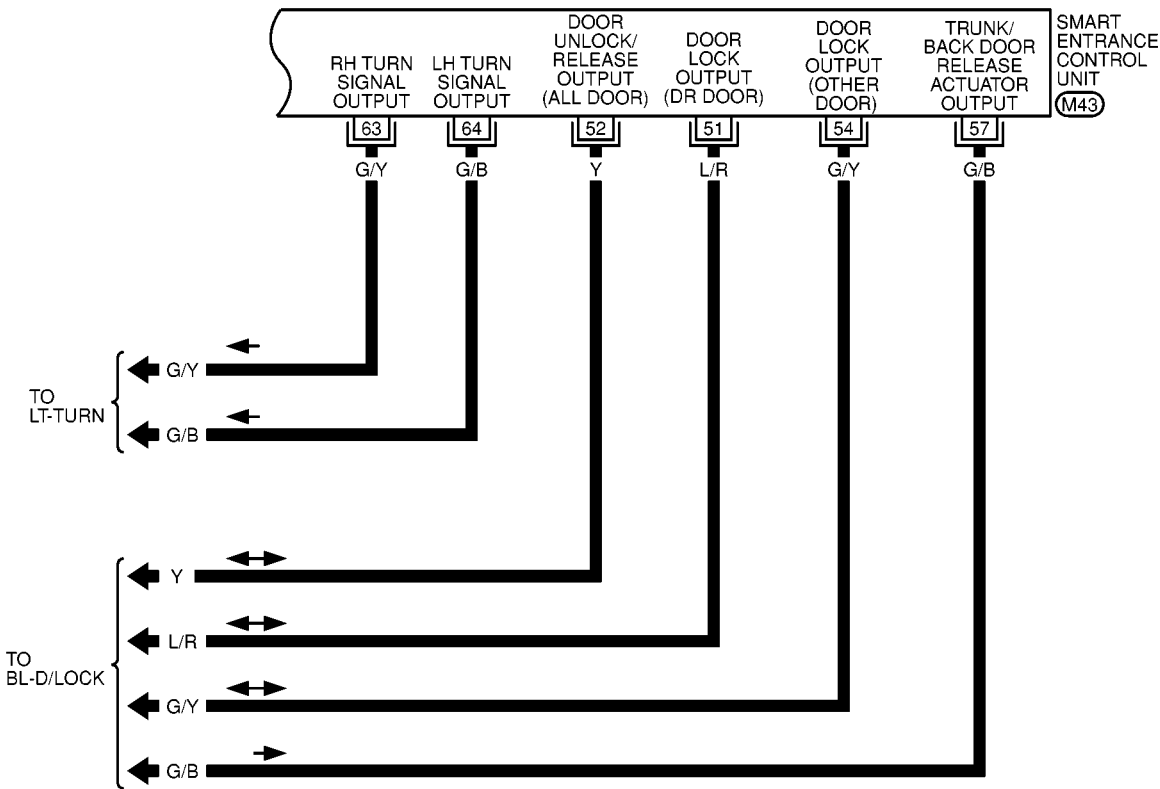
2 : (OR)



MKWA0962E

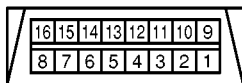
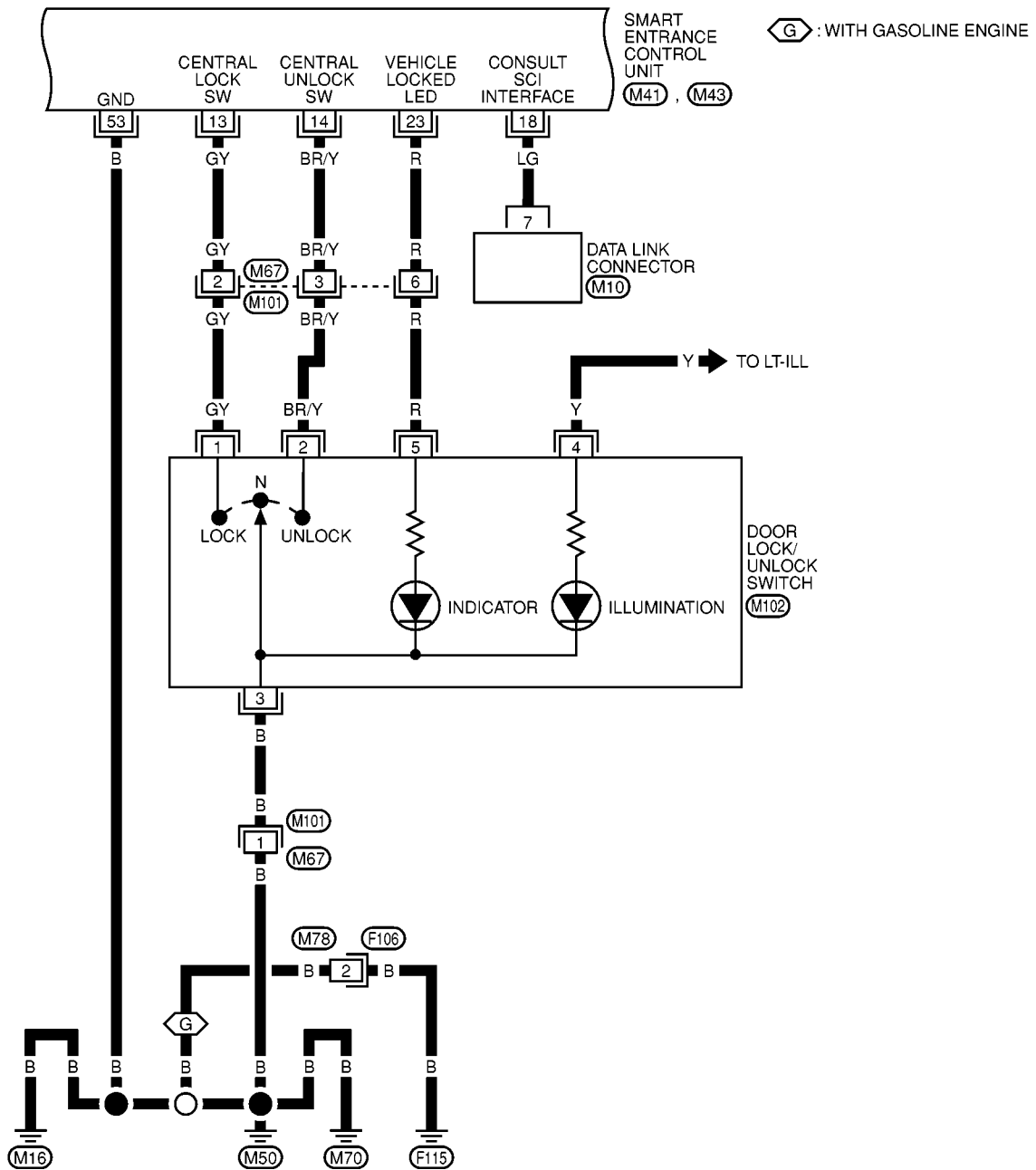
MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-05

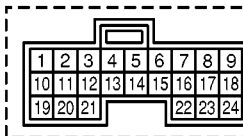


MULTI-REMOTE CONTROL SYSTEM

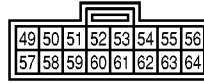
BL-MULTI-07



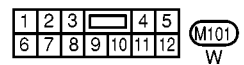
M10
W



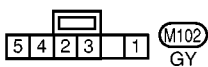
M41
W



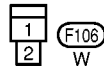
M43
GY



M101
W



M102
GY



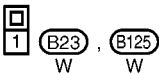
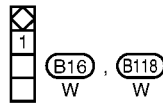
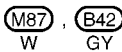
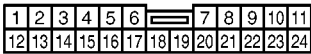
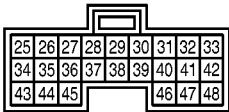
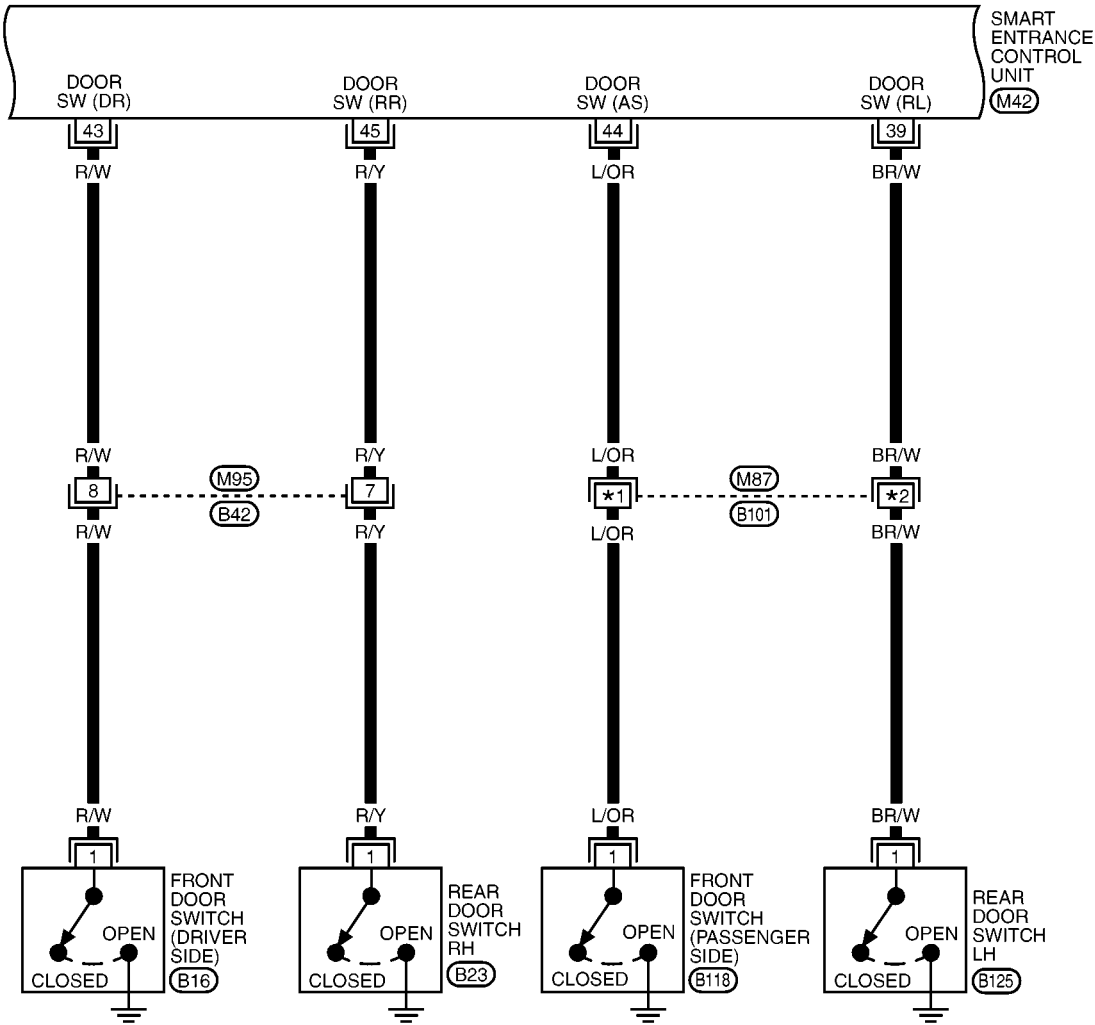
F106
W

MKWA0683E

MULTI-REMOTE CONTROL SYSTEM

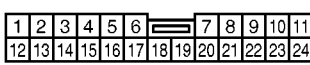
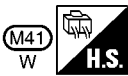
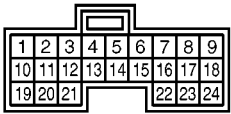
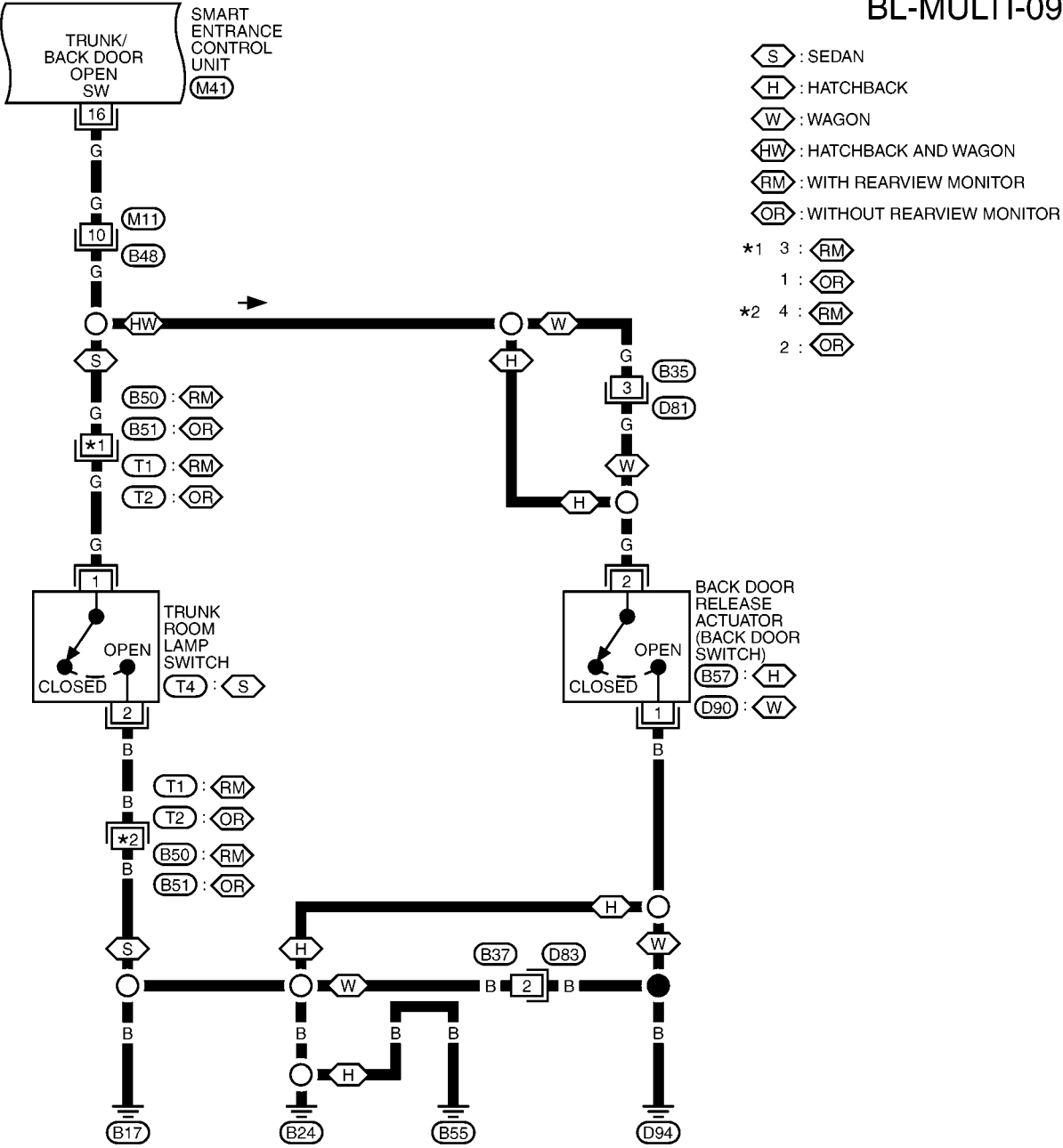
BL-MULTI-08

- ES : WITH ESP
- OE : WITHOUT ESP
- *1 11: ES
- 9: OE
- *2 24: ES
- 8: OE

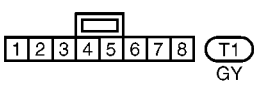
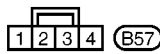


MULTI-REMOTE CONTROL SYSTEM

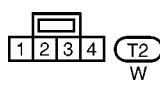
BL-MULTI-09



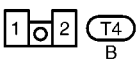
BR



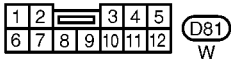
GY



W



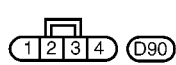
B



W



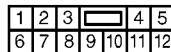
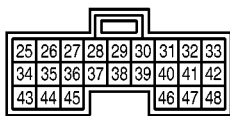
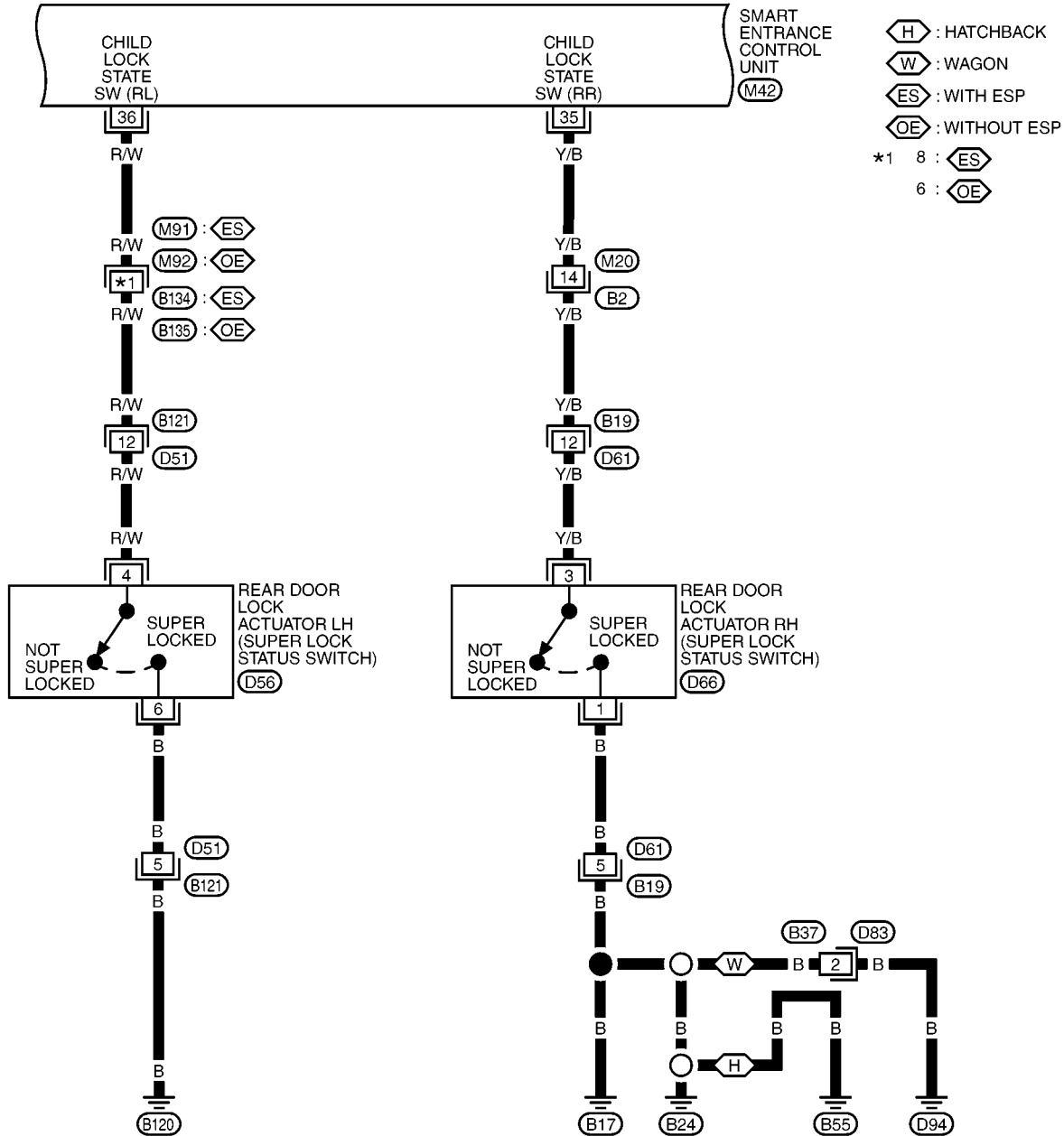
W



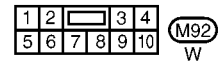
MKWA0964E

MULTI-REMOTE CONTROL SYSTEM

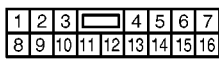
BL-MULTI-10



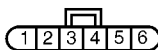
M91 : W
B19 : W
B121 : W



M92 : W



B2 : BR



D56 : D66

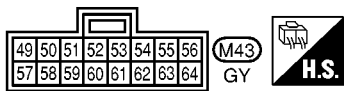
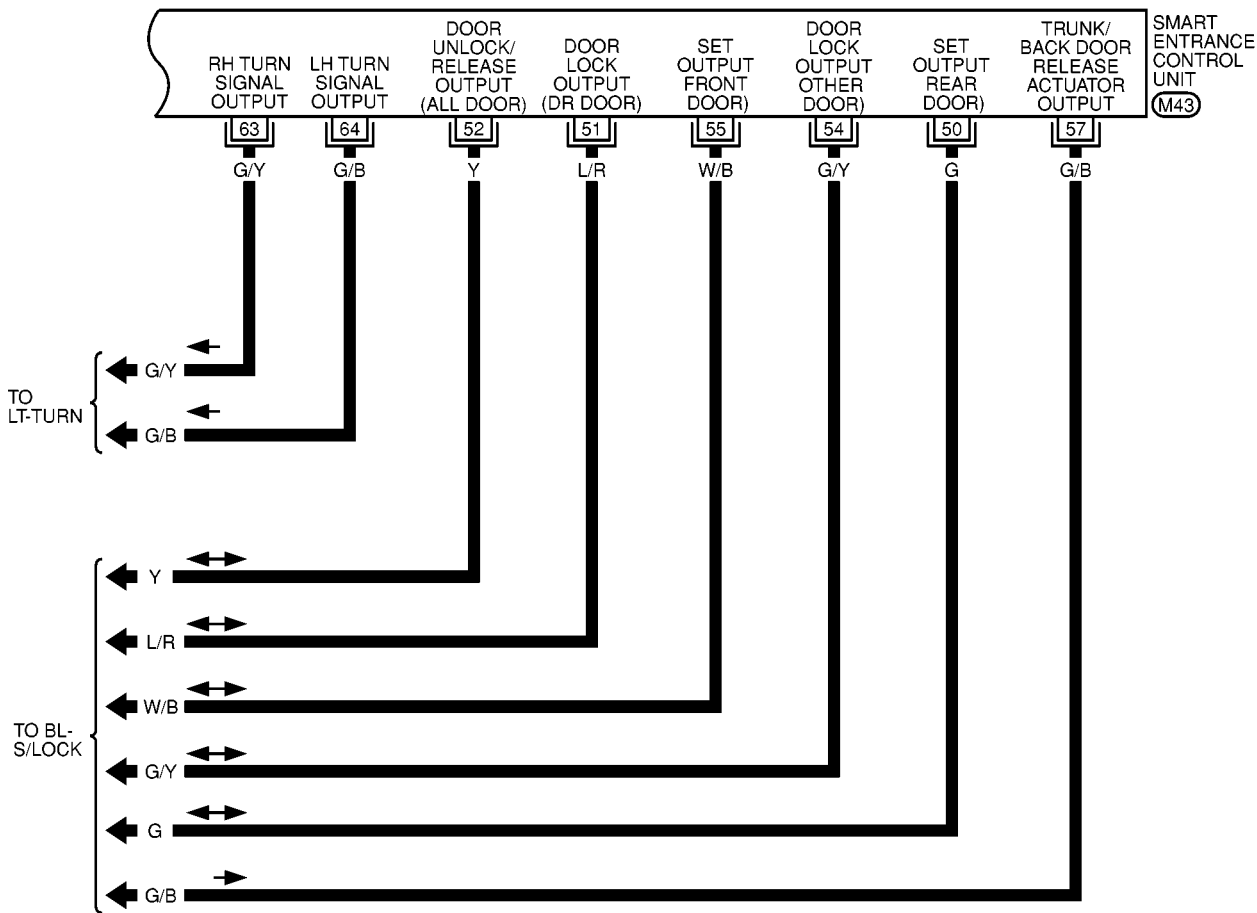


D83 : W

MULTI-REMOTE CONTROL SYSTEM

BL-MULTI-11

A
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C
D
E
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BL
J
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MKWA0686E

MULTI-REMOTE CONTROL SYSTEM

Terminal and Reference Value for Smart Entrance Control Unit

EIS005HU

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
5	B/R	Key switch	Key inserted in ignition key cylinder (ON) → key removed from ignition key cylinder (OFF)	Battery voltage → 0
13	GY	Door lock/unlock switch (Lock signal)	Lock operation (ON)	0
			Other than above (OFF)	5
14	BR/Y	Door lock/unlock switch (Unlock signal)	Unlock operation (ON)	0
			Other than above (OFF)	5
16	G	Trunk room lamp switch (Back door switch)	Trunk (Back door) open (ON) → close (OFF)	0 → Battery voltage
23	R	Door lock/unlock switch indicator	Goes OFF → Illuminates (Ignition switch ON and all door closed)	0 → Battery voltage
29	Y/G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
35*	Y/B	Super lock status switch (Rear door RH side)	Super locked → Not super locked	0 → 5
36*	R/W	Super lock status switch (Rear door LH side)	Super locked → Not super locked	0 → 5
39	BR/W	Rear door switch RH (LHD models)	Door open (ON) → close (OFF)	0 → Battery voltage
		Rear door switch LH (RHD models)		
43	R/W	Driver door switch	Door open (ON) → close (OFF)	0 → Battery voltage
44	L/OR	Passenger door switch	Door open (ON) → close (OFF)	0 → Battery voltage
45	R/Y	Rear door switch LH (LHD models)	Door open (ON) → close (OFF)	0 → Battery voltage
		Rear door switch RH (RHD models)		
49	W/L	Power source (PTC)	—	Battery voltage
50	G	Super lock actuator set (Rear door)	Driver's door key cylinder Lock operation (Set)	0 → Battery voltage → 0
51	L/R	Door lock actuator unlock (Driver side)	Door lock/unlock switch LOCK operation	0 → Battery voltage → 0
52	Y	Door lock actuator lock (All Door)	Door lock/unlock switch Unlock operation	0 → Battery voltage → 0
52*	Y	Door lock actuator unlock & super lock release (All door)	Door lock/unlock switch unlock operation Driver's door key cylinder unlock operation	
53	B	Ground	—	0
54	G/Y	Door lock actuator lock (Passenger and rear LH, RH side)	Door lock/unlock switch LOCK operation	0 → Battery voltage → 0
55	W/B	Super lock actuator set (Front door)	Driver's door key cylinder Lock operation (Set)	0 → Battery voltage → 0
56	R/B	BAT power supply	—	Battery voltage
57	G/B	Trunk (Back door) release actuator	Power window main switch (Trunk or back door release switch) OPEN operation	Battery voltage → 0

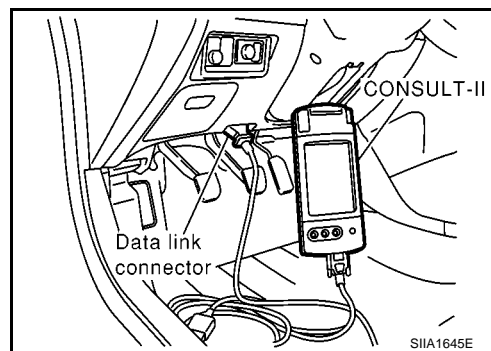
MULTI-REMOTE CONTROL SYSTEM

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
63	G/Y	Hazard reminder (Turn signal lamp RH)	When lock operated using remote controller	0 → Battery voltage → 0
			When unlock operated using remote controller	0 → Battery voltage → 0 → Battery voltage → 0
64	G/B	Hazard reminder (Turn signal lamp LH)	When lock operated using remote controller	0V → Battery voltage
			When unlock operated using remote controller	0 → Battery voltage → 0 → Battery voltage → 0

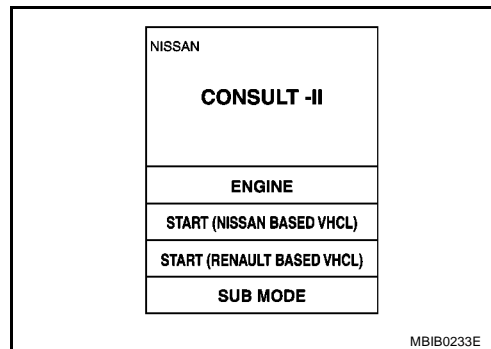
*: RHD models

CONSULT- II Inspection Procedure

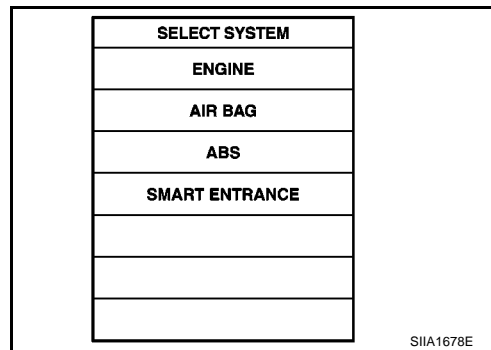
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



3. Turn ignition switch "ON".
4. Touch "START(NISSAN BASED VHCL)".

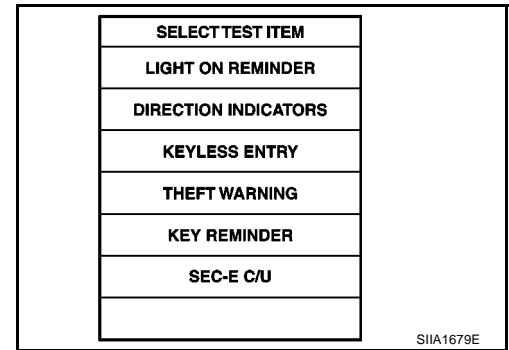


5. Touch "SMART ENTRANCE".

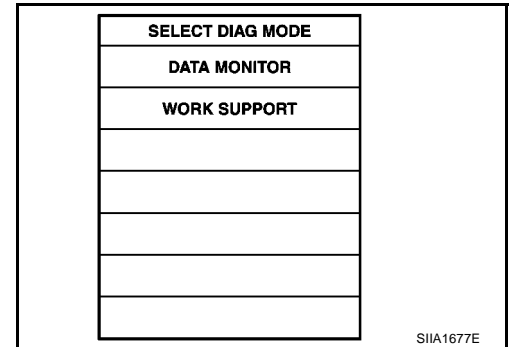


MULTI-REMOTE CONTROL SYSTEM

6. Touch "KEYLESS ENTRY".



7. Select diagnosis mode.
"DATA MONITOR" and "WORK SUPPORT" are available.



CONSULT- II Application Items

DATA MONITOR

EIS005HW

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch in ON position.
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (wagon) open signal from trunk or back door release switch.
BATTERY CHECK	Indicates [OK/NG] condition of remote controller battery.

WORK SUPPORT

Test Item	Description
KEYLESS CHECK	It can be checked whether remote controller ID code is registered or not in this mode.
KEYLESS REGISTRATION	Remote controller ID code can be registered.
KEYLESS DI FLASH	This mode can be setting remote controller function.

Trouble Diagnoses

EIS005HX

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-13, "CONSULT-II INSPECTION PROCEDURE"](#).

NOTE:

- Always check remote controller battery before replacing remote controller.

SYMPTOM CHART

Symptom	Diagnoses/service procedure	Reference page
All function of multi-remote control system do not operate.	1. Remote controller battery check	BL-97
	2. Smart entrance control unit power supply and ground circuit check	BL-98
	3. Replace smart entrance control unit.	—

MULTI-REMOTE CONTROL SYSTEM

Symptom	Diagnoses/service procedure	Reference page
The new ID of remote controller cannot be entered.	1. Remote controller battery check	BL-97
	2. Key switch check	BL-101
	3. Door switch check	BL-99
	4. Smart entrance control unit power supply and ground circuit check	BL-98
	5. Replace smart entrance control unit.	—
Door lock or unlock does not function.	1. If the power door lock system does not operate manually, check power door lock system.	BL-25
	2. Remote controller battery check	BL-97
	3. Replace smart entrance control unit.	—
Hazard reminder does not activate properly when pressing lock or unlock button of remote controller.	1. Remote controller battery check	BL-97
	2. Hazard reminder check	BL-101
	3. Replace smart entrance control unit.	—

Remote Controller Battery Check

EIS005HY

1. CHECK REMOTE CONTROLLER BATTERY

Remove battery and measure voltage across battery positive and negative terminals, (+) and (–).

(+) - (–) : 2.5V – 3.0V

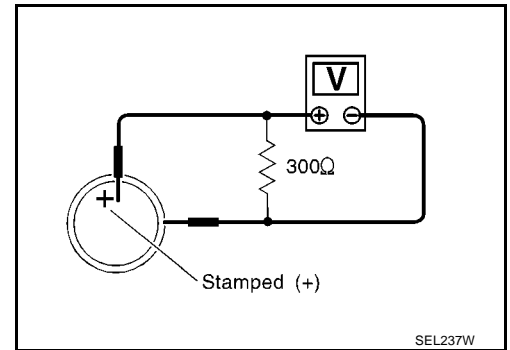
NOTE:

Remote controller does not function if battery is not set correctly.

OK or NG

OK >> GO TO 2

NG >> Replace battery. Refer to [BL-106, "Remote Controller Battery Replacement"](#).



2. CHECK REMOTE CONTROLLER FUNCTION

With CONSULT-II

Check remote controller function ("RKE LOCK", "RKE UNLOCK") in "DATA MONITOR" mode with CONSULT-II.

RKE LOCK

Pushing remote controller lock button : ON

RKE UNLOCK

Pushing remote controller unlock button : OFF

OK or NG

OK >> Remote controller is OK. Further inspection is necessary. Refer to [BL-96, "Trouble Diagnoses"](#).

NG >> Replace remote controller.

DATA MONITOR	
MONITOR	
RKE LOCK	ON
RKE UNLOCK	ON

SI1A1643E

MULTI-REMOTE CONTROL SYSTEM

Smart Entrance Control Unit Power Supply and Ground Circuit Check

EIS005HZ

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit connector.
3. Check voltage between smart entrance control unit harness connector M43 terminal 49, 56 and ground.

49 (W/L) - Ground : Battery voltage

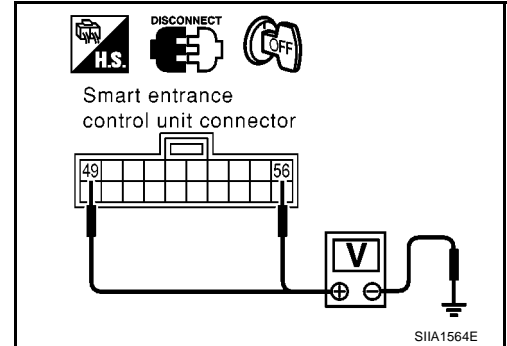
56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 40A fusible link (letter B, located in the fusible link and fuse box)
- 10A fuse (No. 12, located in the fusible link and fuse box)
- Condition of circuit breaker-1
- Harness for open or short smart entrance control unit power supply circuit.



2. CHECK GROUND CIRCUIT

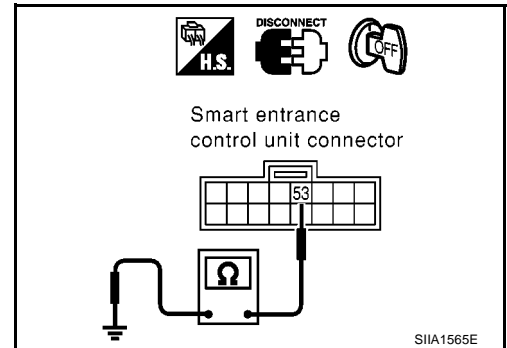
Check continuity between smart entrance control unit harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

OK >> Smart entrance control unit power supply and ground circuit are OK.

NG >> Check smart entrance control unit ground circuit for open or short.



MULTI-REMOTE CONTROL SYSTEM

Door Switch Check DRIVER SIDE

EIS00510

1. CHECK DOOR SWITCH INPUT SIGNAL

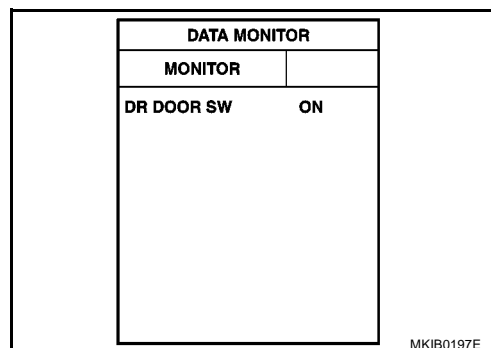
④ WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



⊗ WITHOUT CONSULT-II

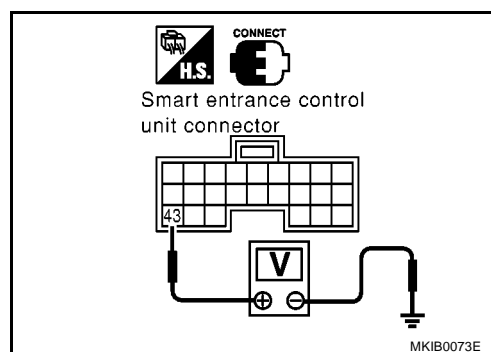
1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

OK >> Door switch (driver side) is OK.

NG >> GO TO 2.



2. CHECK DRIVER SIDE DOOR SWITCH

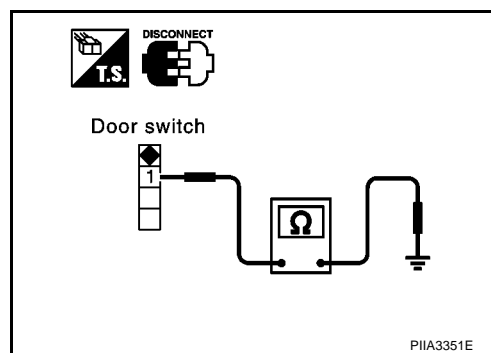
1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal		Door switch	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).

NG >> Replace front door switch (driver side).



MULTI-REMOTE CONTROL SYSTEM

EXCEPT DRIVER SIDE

1. CHECK OTHER DOORS SWITCHES INPUT SIGNAL

WITH CONSULT-II

Check other doors switch signal ("AS DOOR SW", "RR DOOR SW" or "RR RH DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

Each DOOR SW

Each door is open : ON

Each door is closed : OFF

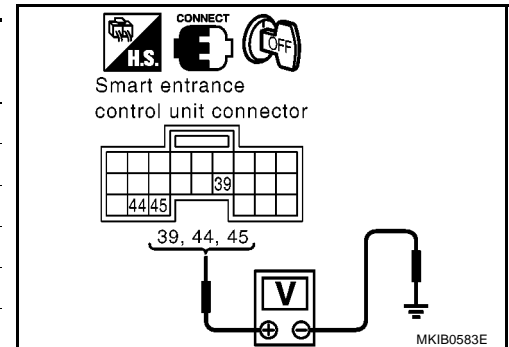
DATA MONITOR	
MONITOR	
AS DOOR SW	ON
RR LH DOOR SW	ON
RR RH DOOR SW	ON

MKIB0199E

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Item	Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Rear door LH or RH	M42	39 (BR/W)	Ground	Open	0
				Closed	Battery voltage
Passenger side		44 (L/OR)		Open	0
				Closed	Battery voltage
Rear door LH or RH		45 (R/Y)		Open	0
				Closed	Battery voltage



OK or NG

OK >> Door switch OK.

NG >> GO TO 2.

2. CHECK DOOR SWITCHES

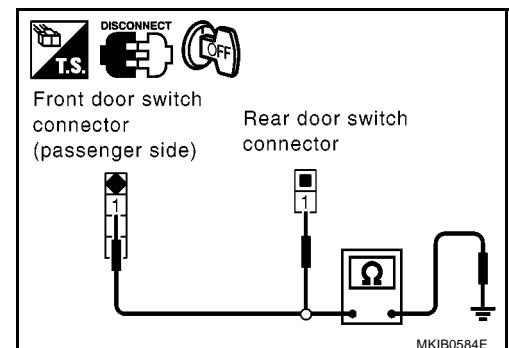
1. Turn ignition switch OFF.
2. Disconnect each door switches harness connector.
3. Check continuity between door switch terminal 1 and ground part of door switch.

Terminal		Condition	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and door switch.

NG >> Replace malfunction door switch.



MULTI-REMOTE CONTROL SYSTEM

Key Switch Check

EIS00511

1. CHECK KEY SWITCH INPUT SIGNAL

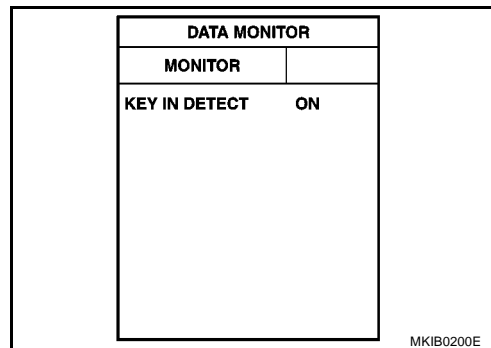
① WITH CONSULT-II

Check key switch signal ("KEY IN DETECT") in "DATA MONITOR" mode with CONSULT-II.

KEY IN DETECT

Key is inserted in ignition cylinder : ON

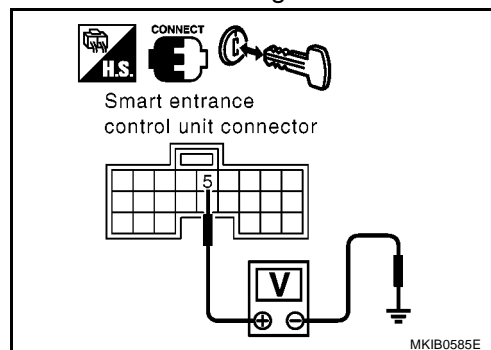
Key is removed from ignition key cylinder : OFF



② WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminal 5 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	5 (B/R)	Ground	Key is inserted	Battery voltage
			Key is removed	0



OK or NG

OK >> Key switch is OK.

NG >> GO TO 2.

2. CHECK KEY SWITCH

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminal 1 and 2.

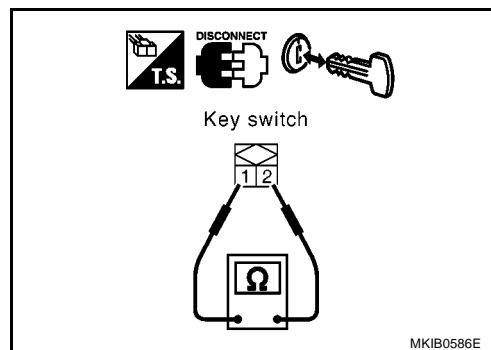
Terminal		Condition	Continuity
1	2	Key is inserted	Yes
		Key is removed	Yes

OK or NG

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



Hazard Reminder Check

EIS00512

1. CHECK HAZARD WARNING LAMP

Check if hazard warning lamp flashes with hazard switch.

Does hazard warning lamp operate?

Yes >> GO TO 2.

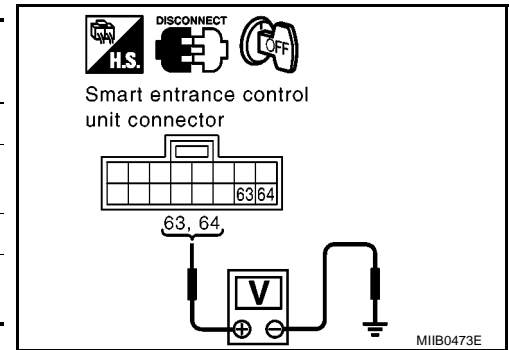
No >> Check hazard warning lamp circuit.

MULTI-REMOTE CONTROL SYSTEM

2. CHECK HAZARD REMINDER OPERATION

Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Remote controller	Voltage (V) (Approx.)
	(+)	(-)		
M43	63 (G/Y)	Ground	Lock	0 → Battery voltage → 0
			Unlock	0 → Battery voltage → 0 → Battery voltage → 0
	64 (G/B)		Lock	0 → Battery voltage → 0
			Unlock	0 → Battery voltage → 0 → Battery voltage → 0



OK or NG

- OK >> Check harness for open or short between smart entrance control unit and hazard switch.
- NG >> Replace smart entrance control unit.

MULTI-REMOTE CONTROL SYSTEM

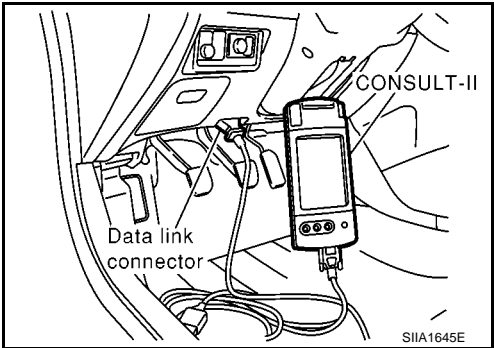
ID Code Entry Procedure
REMOTE CONTROLLER ID SET UP WITH CONSULT-II

EIS00513

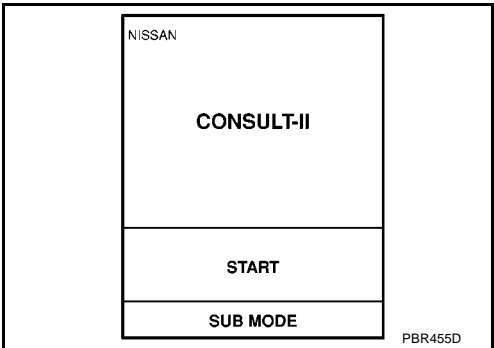
NOTE:

If a remote controller is lost, the ID code of the lost remote controller must be erased to prevent unauthorized use. When the ID code of a lost remote controller is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new remote controllers must be re-registered.

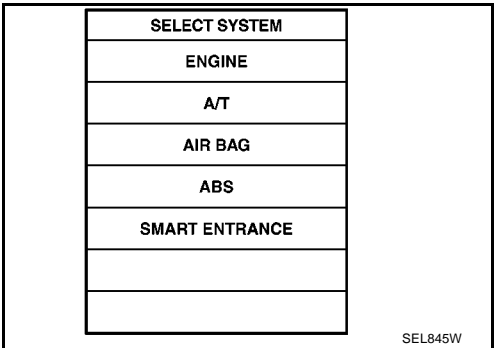
- 1. Turn ignition switch "OFF".
- 2. Connect "CONSULT-II" to the data link connector.



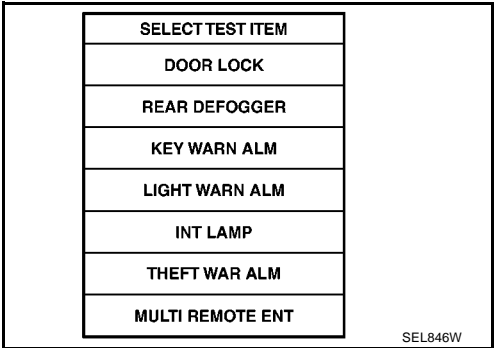
- 3. Turn ignition switch "ON".
- 4. Touch "START".



- 5. Touch "SMART ENTRANCE".



- 6. Touch "KEYLESS ENTRY".



MULTI-REMOTE CONTROL SYSTEM

7. Touch "WORK SUPPORT".

SELECT DIAG MODE
DATA MONITOR
ACTIVE TEST
WORK SUPPORT

SEL274W

8. The items are shown on the figure at left can be set up.

- "KEYLESS CHECK"
Use this mode to confirm if a remote controller ID code is registered or not.
- "KEYLESS REGISTRATION"
Use this mode to register a remote controller ID code.

NOTE:

Register the ID code when remote controller or smart entrance control unit is replaced, or when additional remote controller is required.

- "KEYLESS DI FLASH"
This mode can be setting remote controller function.

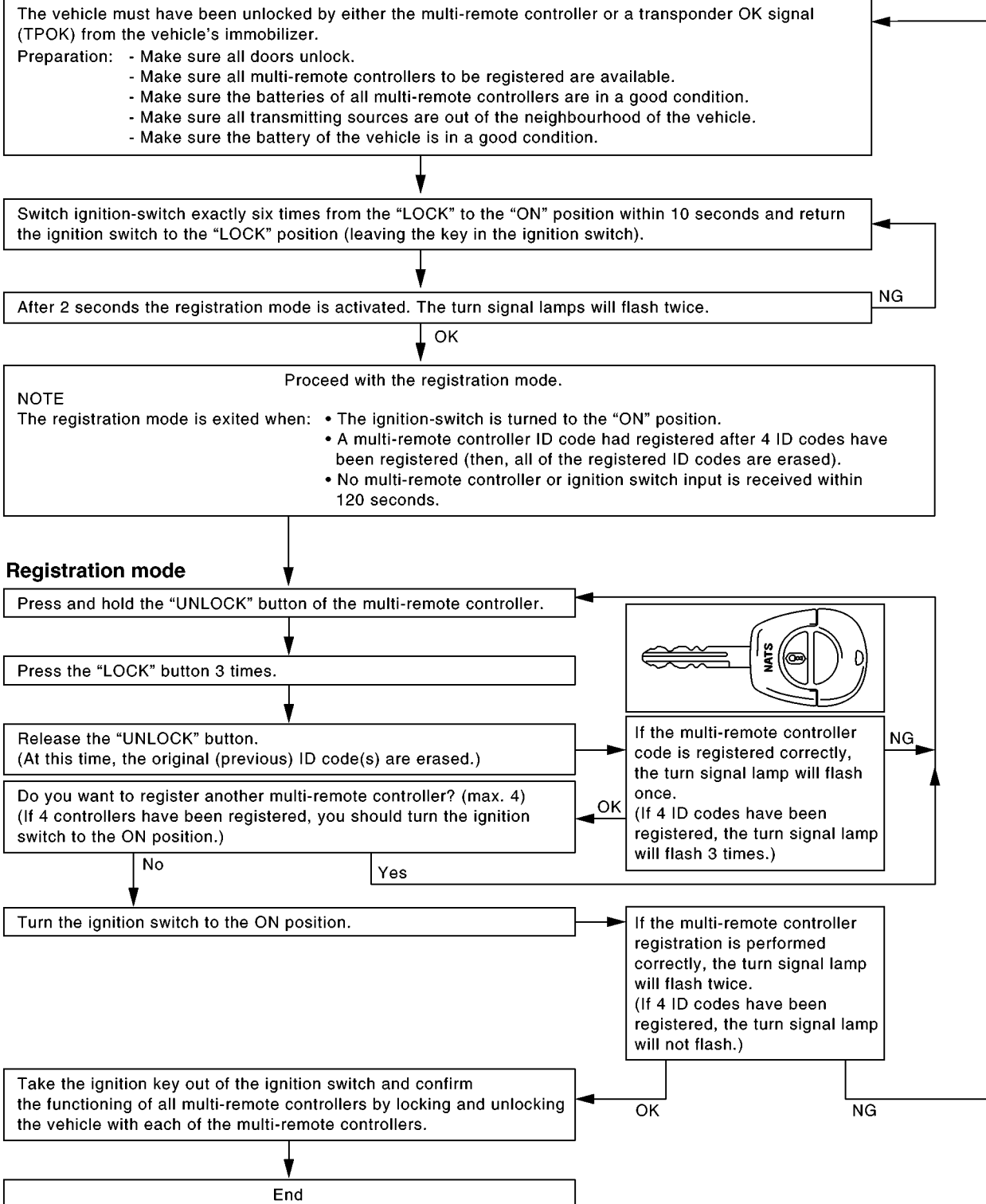
SELECT WORK ITEM
KEYLESS REGISTRATION
KEYLESS CHECK
KEYLESS DI FLASH

SI1A1681E

MULTI-REMOTE CONTROL SYSTEM

REMOTE CONTROLLER ID SET UP WITHOUT CONSULT- II

Activation of the registration mode:



MULTI-REMOTE CONTROL SYSTEM

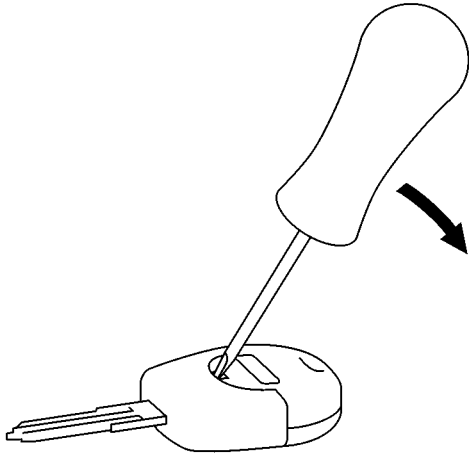
Remote Controller Battery Replacement

EIS00514

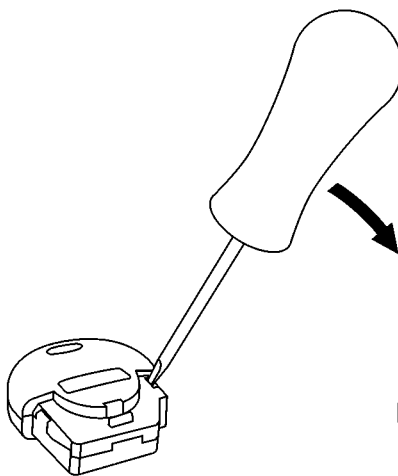
NOTE:

- Be careful not to touch the circuit board or battery terminal.
- The remote controller is water-resistant. However, if it does get wet, immediately wipe it dry.
- Push the remote controller button two or three times to check its operation after replacing battery.

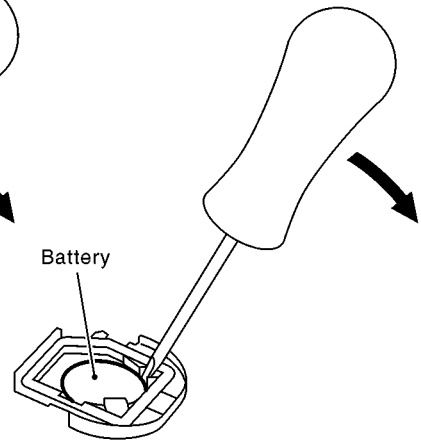
STEP 1



STEP 2



STEP 3



SEL241X

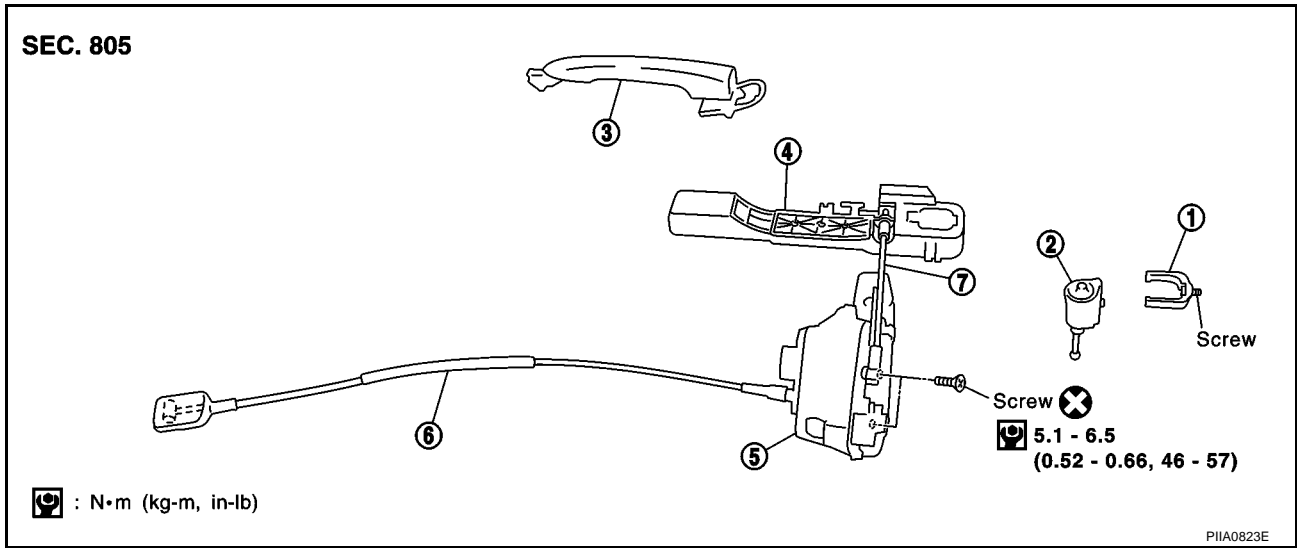
FRONT DOOR LOCK

FRONT DOOR LOCK

PFP:80502

Component Parts

EIS00515

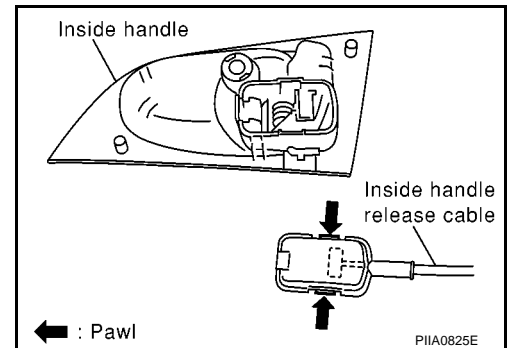


Removal and Installation

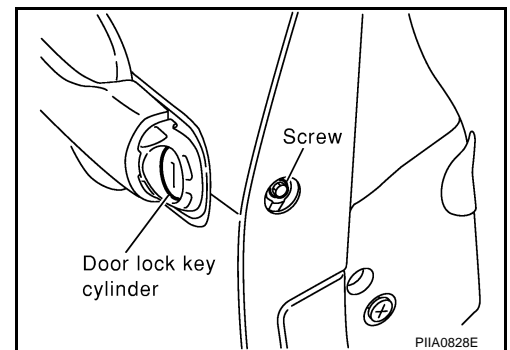
REMOVAL

EIS00516

1. Remove door finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove front door glass. Refer to [GW-64, "FRONT DOOR GLASS AND REGULATOR"](#).
3. Remove front door module assembly. Refer to [GW-64, "FRONT DOOR GLASS AND REGULATOR"](#).
4. Disconnect inside release cable at the joint.

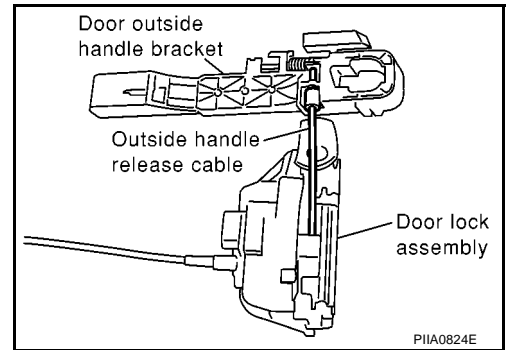


5. Remove front door lock key cylinder assembly mount screw.
6. Remove front door lock key cylinder cap (driver side).

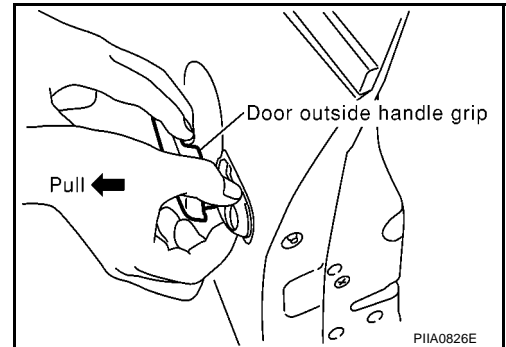


FRONT DOOR LOCK

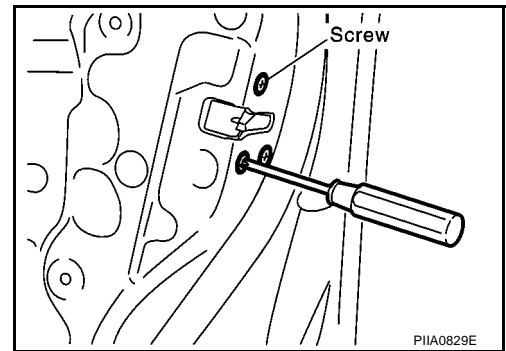
7. Working through the access hole, disconnect outside handle release cable (on the handle) at the joint.



8. Remove outside handle grip.
9. Remove outside handle bracket and front door lock key cylinder.



10. Disconnect door lock actuator connector.
11. Remove mount screw and remove door lock assembly through the access hole.



INSTALLATION

Install in the reverse order of removal.

NOTE:

- Install the outside handle by pressing it forward and downward while tightening the bolts.

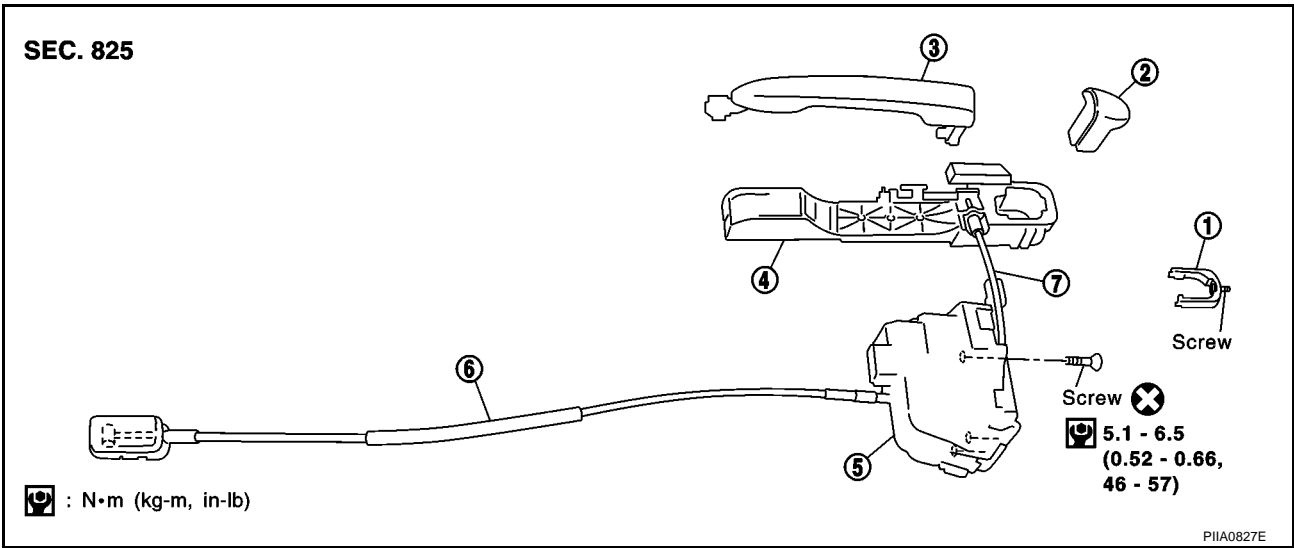
REAR DOOR LOCK

REAR DOOR LOCK

PFP:82502

Component Parts

EIS00517



- | | | |
|----------------------------------|------------------------------------|---------------------------------|
| 1 : Fixing bracket | 2 : Door outside handle escutcheon | 3 : Door outside handle grip |
| 4 : Door outside handle bracket | 5 : Door lock actuator assembly | 6 : Inside handle release cable |
| 7 : Outside handle release cable | | |

Removal and Installation

REMOVAL

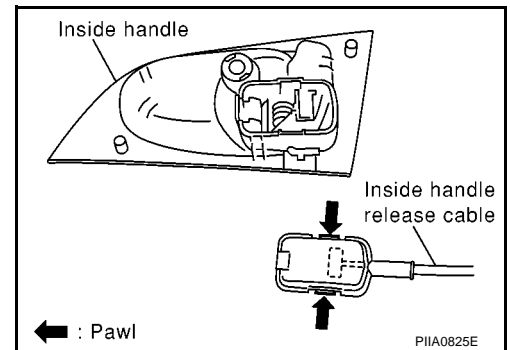
EIS00518

1. Remove door finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove remove sealing screen.

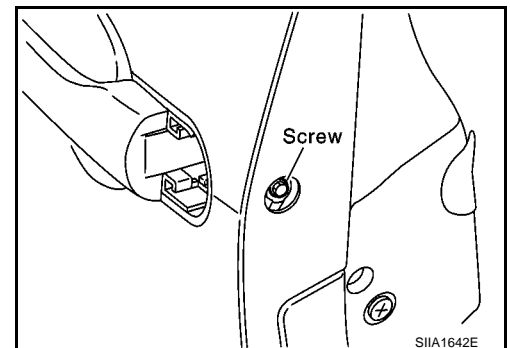
NOTE:

If sealing screen is reused, cut butyl tape in a way that leaves it on the sealing screen.

3. Remove rear door glass. Refer to [GW-68. "REAR DOOR GLASS AND REGULATOR"](#).
4. Disconnect inside release cable at the joint.

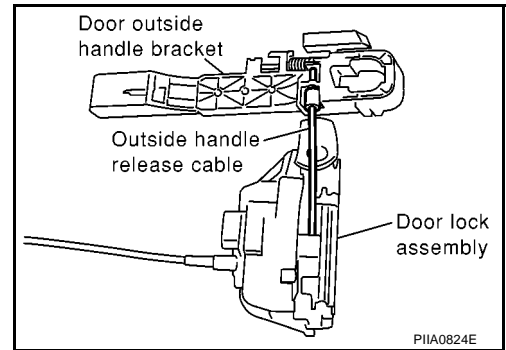


5. Remove mount screw and remove door out side handle escutcheon.

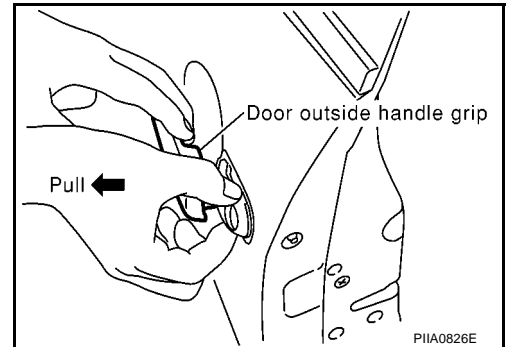


REAR DOOR LOCK

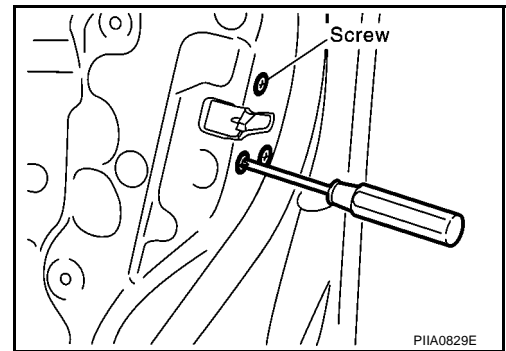
6. Working through the access hole, disconnect outside handle release cable (on the handle) at the joint.



7. Remove outside handle grip.
8. Remove outside handle bracket.



9. Disconnect door lock actuator connector.
10. Remove mount screw and remove door lock assembly through the access hole.



INSTALLATION

Install in the reverse order of removal.

NOTE:

- Install the outside handle by pressing it forward and downward while tightening the bolts.

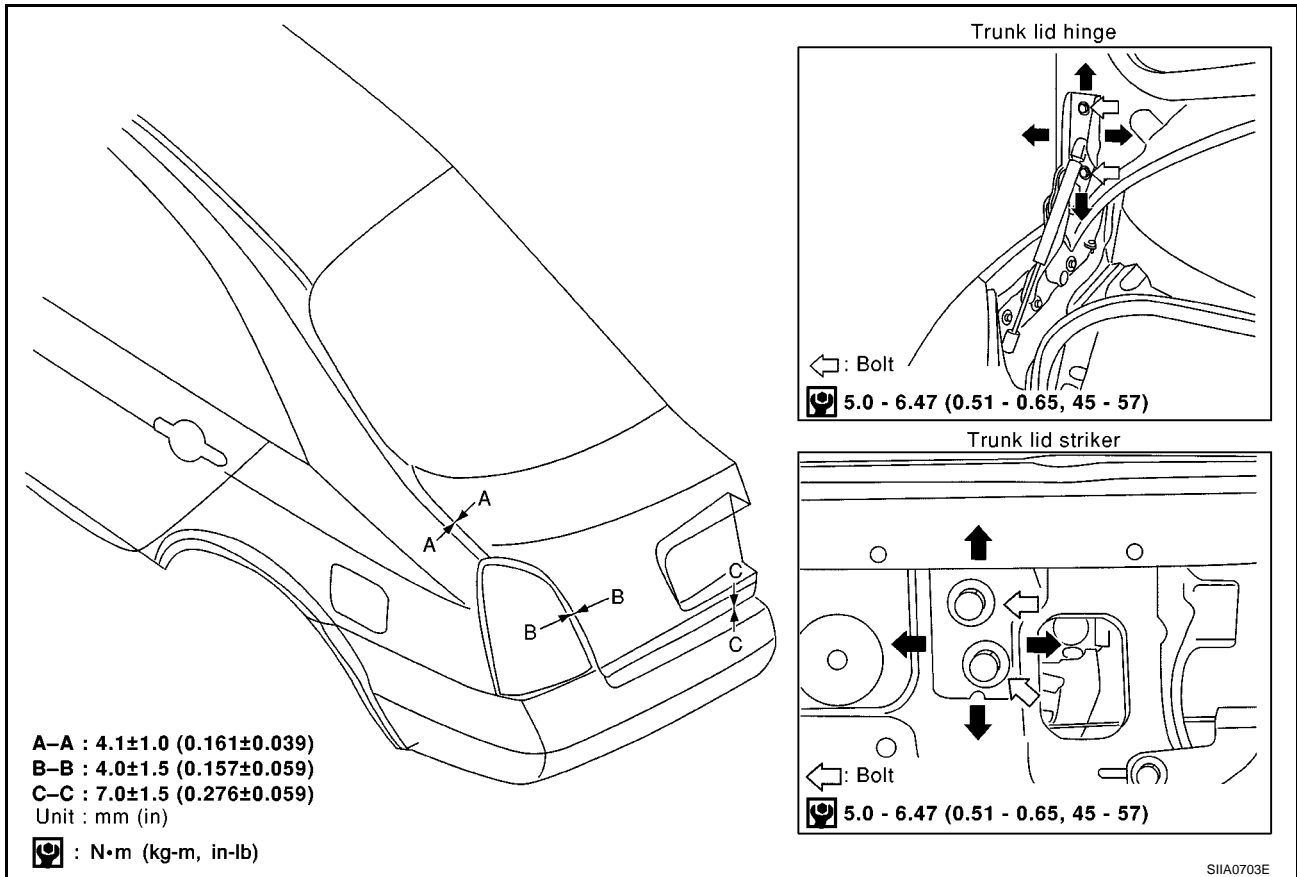
TRUNK LID

TRUNK LID

PFP:H4300

Fitting Adjustment

EIS00519



LONGITUDINAL AND LATERAL CLEARANCE ADJUSTMENT

1. With the striker released, loosen the trunk lid hinge mounting bolts to close the trunk lid.
2. Make the lateral clearance and the clearance to the rear window glass equal, and open the trunk lid to tighten the mounting bolts to the specified torque.

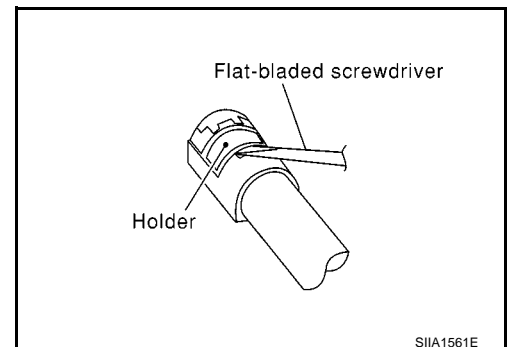
SURFACE HEIGHT ADJUSTMENT

1. Loosen the striker mounting bolts. Raise the striker to the top position, and temporarily tighten the upper mounting bolt at the position.
2. Close the trunk lid lightly and adjust the surface height, then open the trunk lid to finally tighten the striker mounting bolts to the specified torque.

Removal and Installation of Trunk Lid Assembly

EIS0051A

1. Disconnect the connectors in the trunk lid, and remove the harness clamps to pull the harness out of the trunk lid.
2. Insert flat-bladed screw driver into the gap and remove holder.



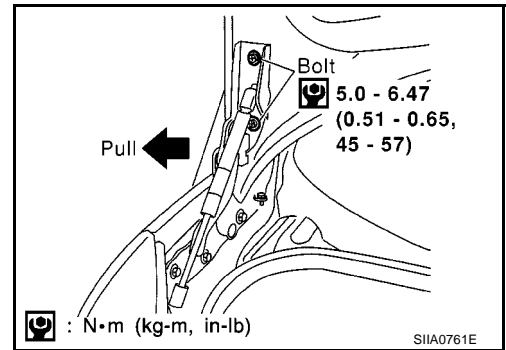
TRUNK LID

3. Remove trunk lid stay (gas stay).
4. Remove the mounting bolts, and remove the trunk lid assembly.

NOTE:

After installing, apply touch-up paint (the body color) onto the head of the hinge mounting bolts.

Install in the reverse order of removal.



Removal and Installation of Trunk Lid Lock TRUNK RELEASE SWITCH (EXTERNAL) REMOVAL

EIS005IB

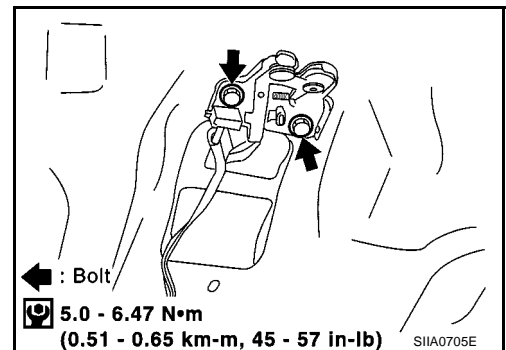
1. Remove license plate finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove trunk release switch.

STRIKER REMOVAL

1. Remove trunk room rear plate. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove striker mounting bolts.

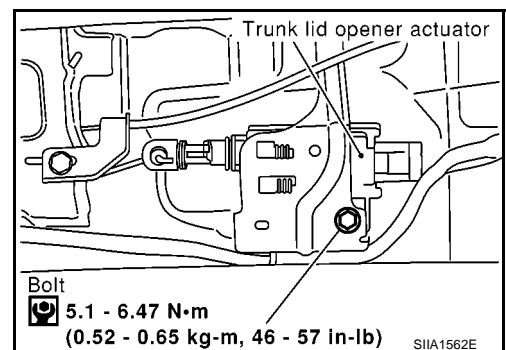
LOCK REMOVAL

1. Remove the trunk lid trim. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove trunk lid lock cover.
3. Separate the key cylinder rod.
4. After removing the harness connector, remove the mounting bolts, and remove the trunk lid lock.



ACTUATOR REMOVAL

1. Remove trunk room rear plate. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect trunk release actuator harness connector.
3. Remove the mounting bolts, and remove the trunk release actuator.



INSTALLATION

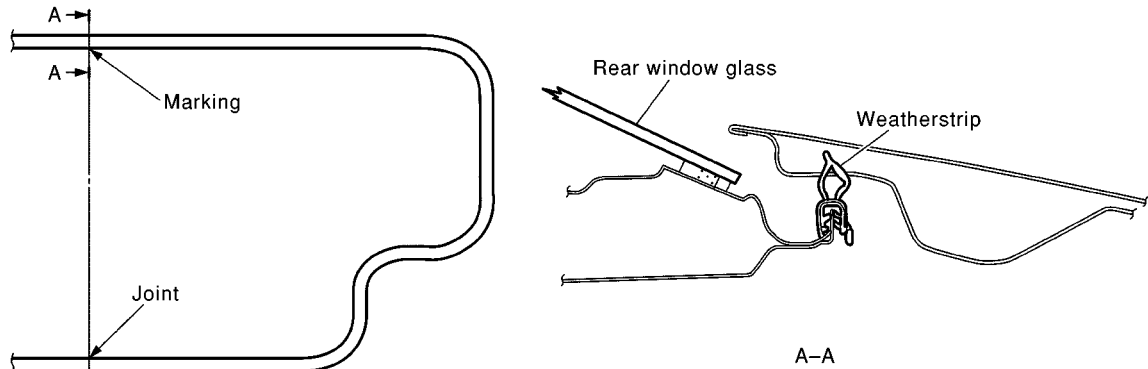
1. Install in the reverse order of removal.
2. After installing, close the trunk lid lightly. Perform the lock and surface height adjustment. Refer to [BL-111, "Fitting Adjustment"](#).
3. After installing, check the operation.

TRUNK LID

Removal and Installation of Trunk Lid Weather-strip

EIS005/C

SEC. 843



SIIA0783E

1. Install the weather-strip from the front with the vehicle center mark aligned to the weather-strip mark.
2. At rear side, align the weather-strip seam to the center of the striker.
3. After installing, pull the weather-strip lightly to check for looseness.

NOTE:

The weather-strip shall be fit tightly onto the corners and trunk lid rear plate.

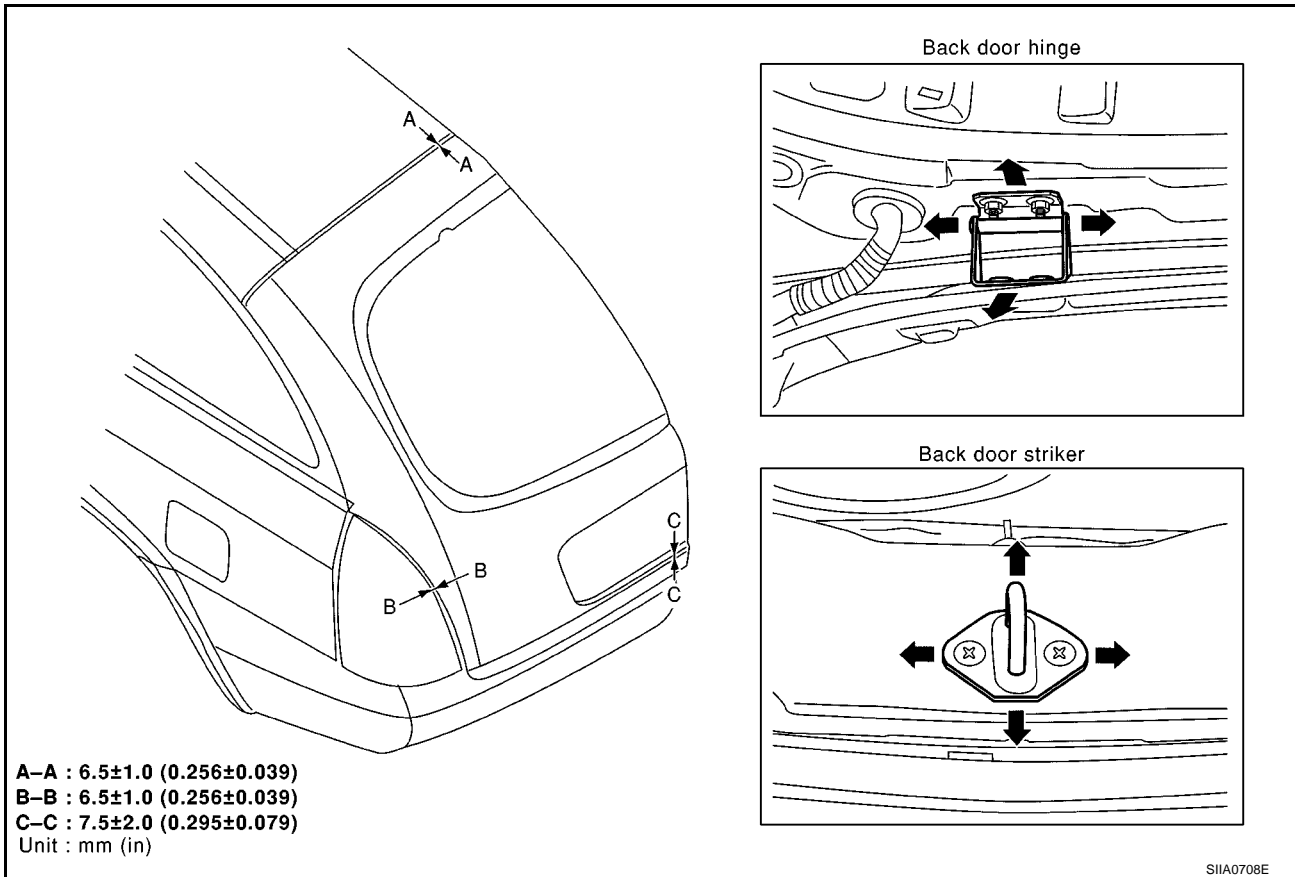
BACK DOOR

PFP:90100

BACK DOOR

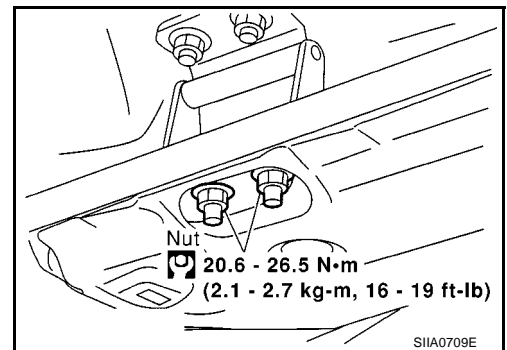
Fitting Adjustment

EIS0051D



VERTICAL/LATERAL CLEARANCE ADJUSTMENT

1. With striker removed, loosen hinge mount nuts on the back door and close it.
2. Make lateral clearance and clearance to rear window glass equal. Open back door to tighten mounting bolts to specified torque.
3. If taking the steps above does not result in fine adjustment, remove headliner and loosen the hinge mount nuts on the vehicle for further adjustment.



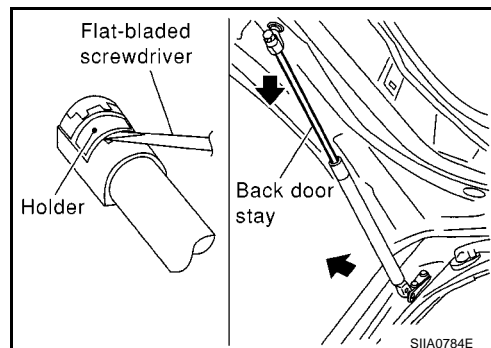
BACK DOOR

Back Door Assembly

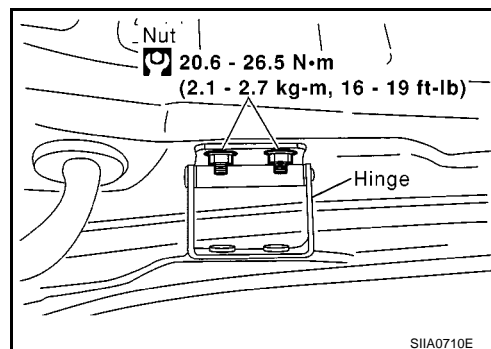
EIS005IE

REMOVAL

1. Disconnect connector in the back door harness. Pull the harness out of the back door.
2. Support the back door lock with a proper material to prevent it from falling and remove back door stay (gas stay).



3. Remove hinge mount nuts on the back door and remove back door assembly.

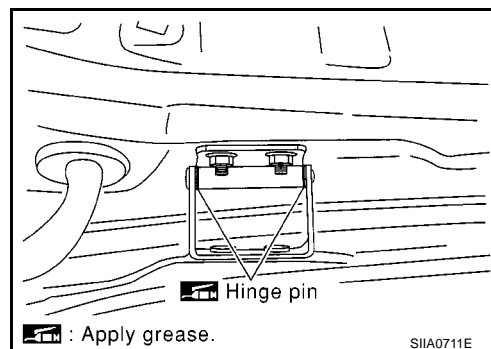


INSTALLATION

Install in the reverse order of removal.

INSPECTION

1. Check hinges for the following items
 - Malfunction noise or door closing and opening effort
 - Component wear or damage
2. Apply Grease to the rotating part of the hinge.



BACK DOOR

Removal and Installation of Back Door Release Switch (External)

EIS005IF

1. Remove license plate finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E)
2. Remove back door release switch.

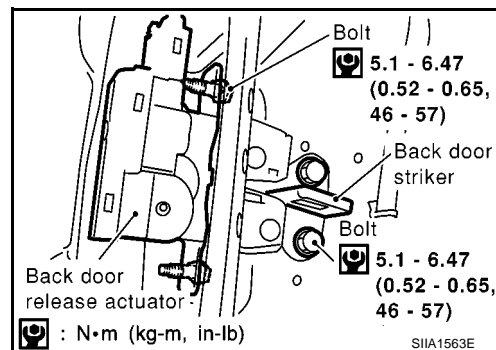
Install in the reverse order of removal.

Removal and Installation of Back Door Lock & Actuator

EIS005IG

1. Remove back door finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect back door release actuator connector.
3. Remove mounting bolts, and remove back door release actuator from the back door.

Install in the reverse order of removal.

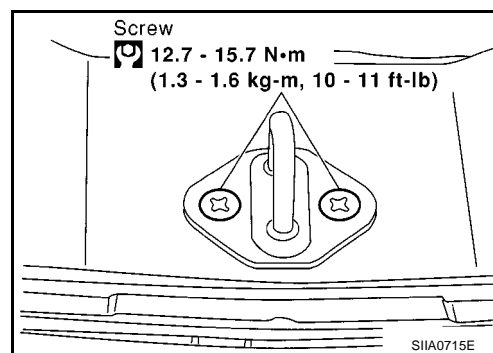


Removal and Installation of Back Door Striker

EIS005IH

1. Remove luggage rear spacer. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove mounting screws, and remove striker from the vehicle.

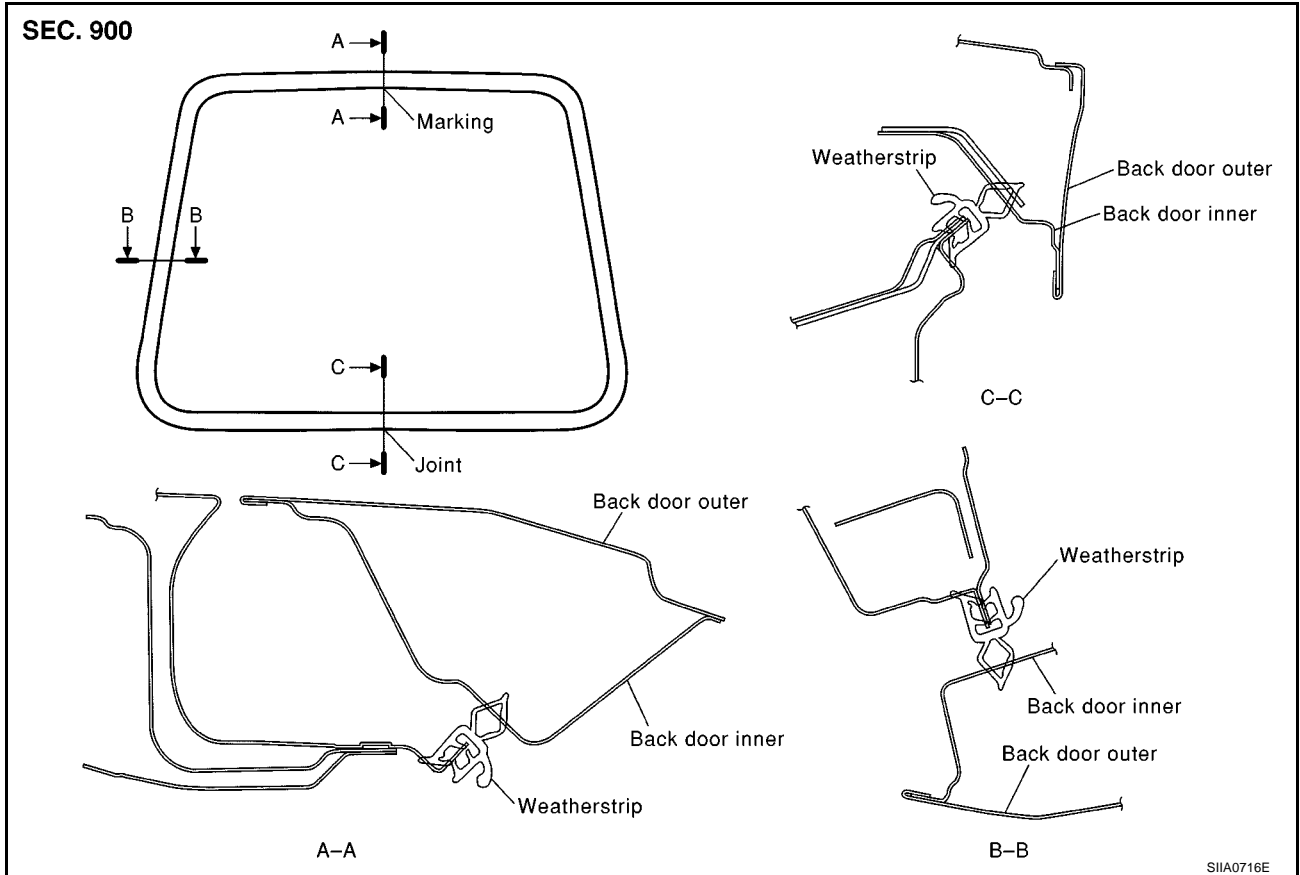
Install in the reverse order of removal.



BACK DOOR

Removal and Installation of Back Door Weather-strip

EIS005II



1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the back door.
2. For the lower section, align the weather-strip seam with center of the striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure the weather-strip is fit tightly at each corner and back door rear plate.

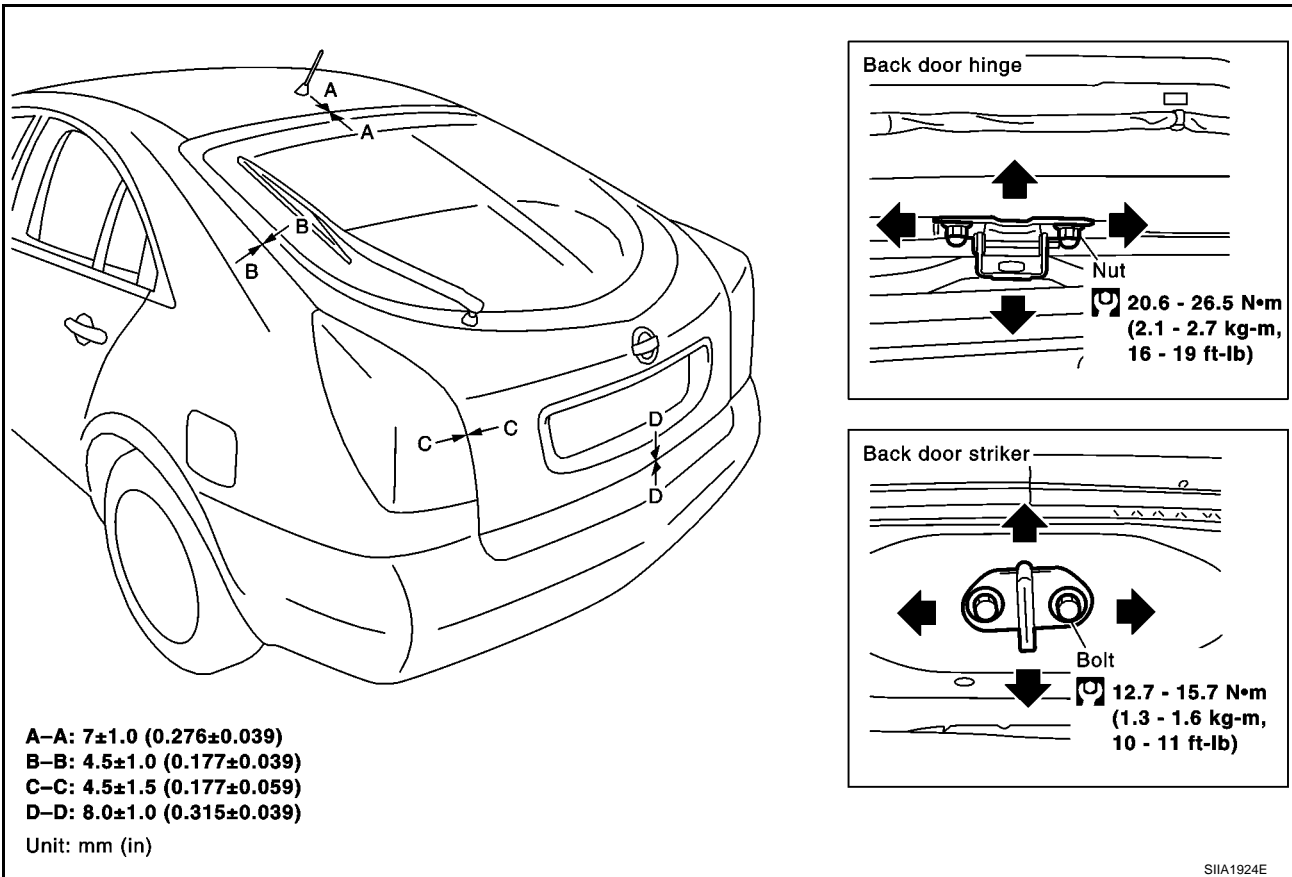
HATCHBACK

PFP:90100

HATCHBACK

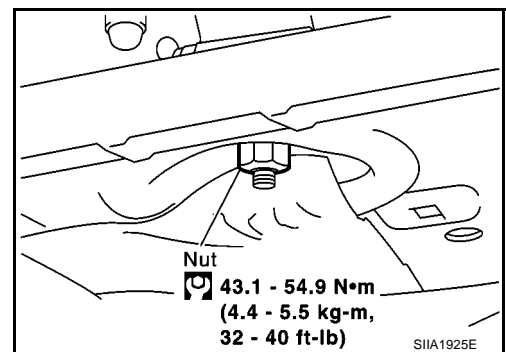
Fitting Adjustment

EIS005IJ



VERTICAL/LATERAL CLEARANCE ADJUSTMENT

1. With striker removed, loosen hinge mount nuts on the back door and close it.
2. Make lateral clearance and clearance to rear window glass equal. Open back door to tighten mounting bolts to specified torque.
3. If taking the steps above does not result in fine adjustment, remove headliner and loosen the hinge mount nuts on the vehicle for further adjustment.

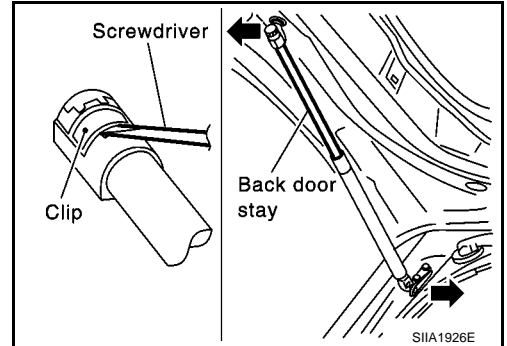


HATCHBACK

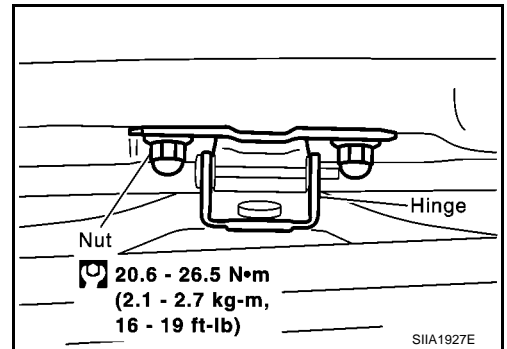
EIS005IK

Back Door Assembly REMOVAL

1. Disconnect connector in the back door harness. Pull the harness out of the back door.
2. Support the back door lock with a proper material to prevent it from falling and remove back door stay (gas stay).



3. Remove hinge mount nuts on the back door and remove back door assembly.

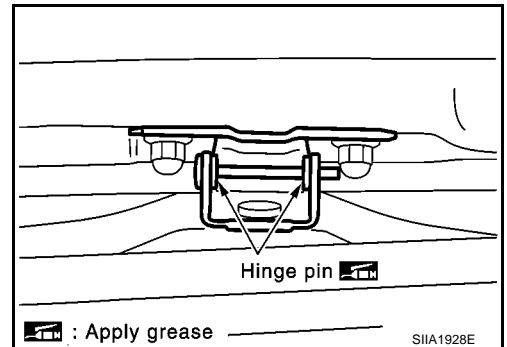


INSTALLATION

Install in the reverse order of removal.

INSPECTION

1. Check hinges for the following items
 - Malfunction noise or door closing and opening effort
 - Component wear or damage
2. Apply Grease to the rotating part of the hinge.



HATCHBACK

Removal and Installation of Back Door Release Switch (External)

EIS005IL

1. Remove licence plate finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove back door release switch.

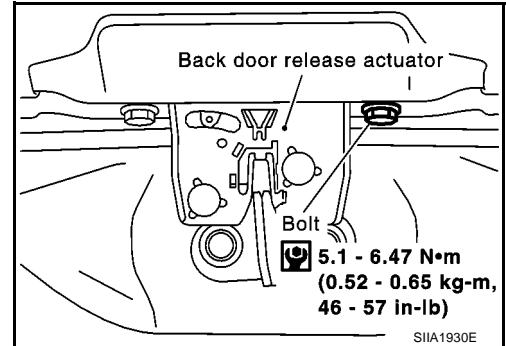
Install in the reverse order of removal.

Removal and Installation of Back Door Lock & Actuator

EIS005IM

1. Remove back door finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect back door release actuator connector.
3. Remove mounting bolts, and remove back door release actuator from the back door.

Install in the reverse order of removal.

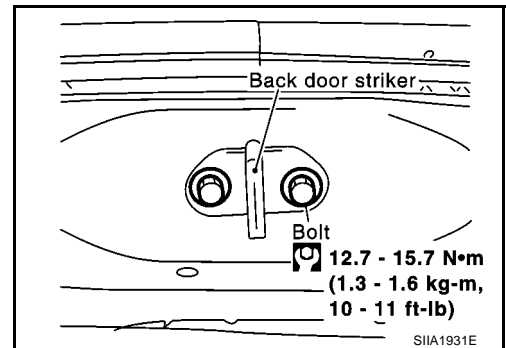


Removal and Installation of Back Door Striker

EIS005IN

1. Remove luggage rear spacer. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove mounting screws, and remove striker from the vehicle.

Install in the reverse order of removal.

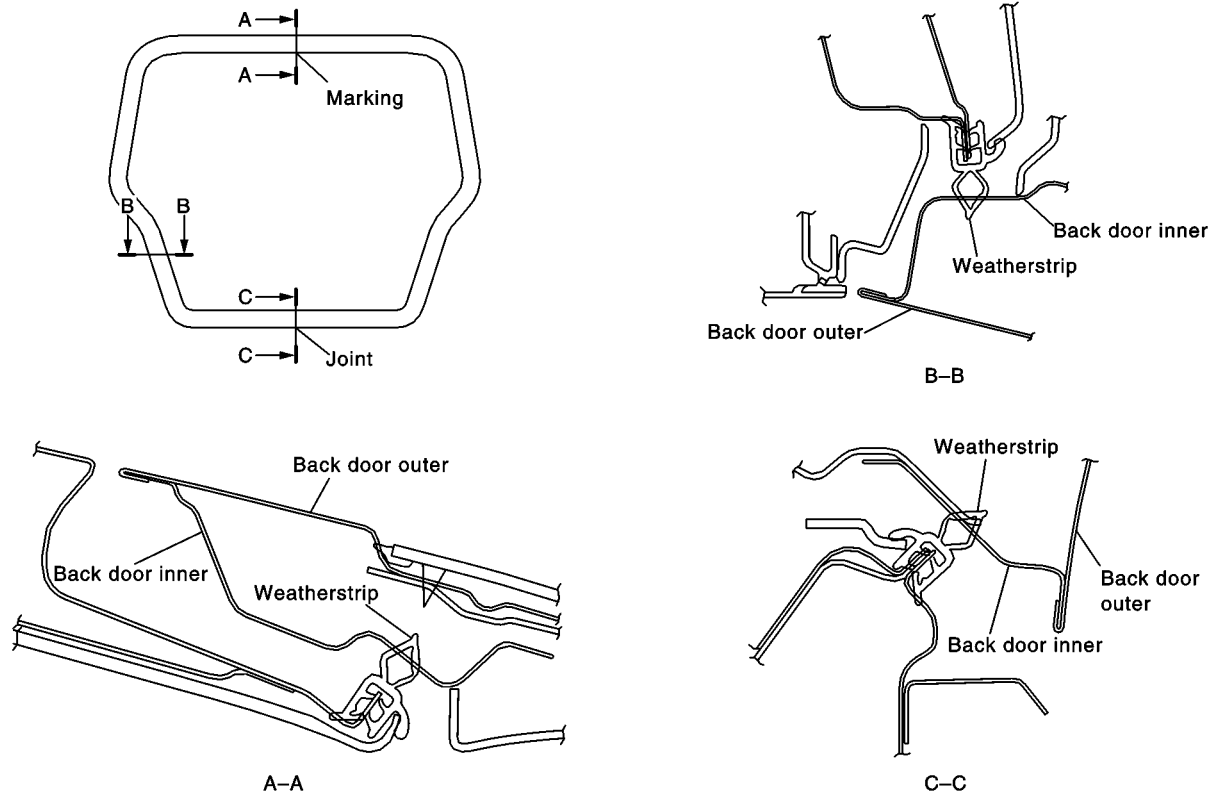


HATCHBACK

Removal and Installation of Weather-strip

EIS00510

SEC. 900



SI1A1932E

1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the back door.
2. For the lower section, align the weather-strip seam with center of the striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure the weather-strip is fit tightly at each corner and back door rear plate.

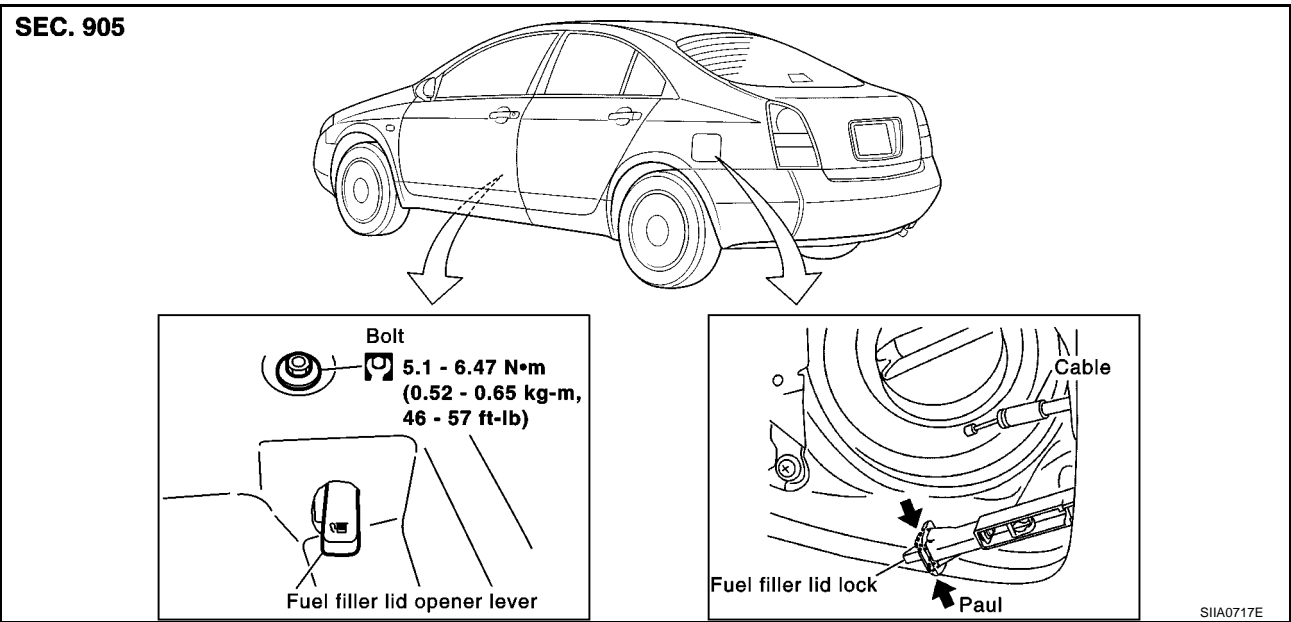
FUEL FILLER LID OPENER

FUEL FILLER LID OPENER

Component Parts Location

PFP:78820

EIS005IP



THEFT WARNING SYSTEM

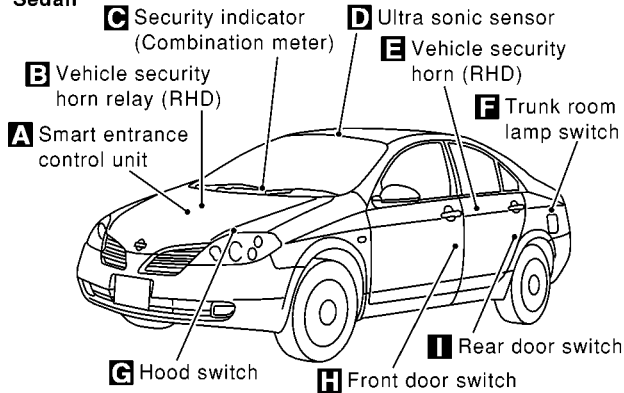
THEFT WARNING SYSTEM

PFP:25362

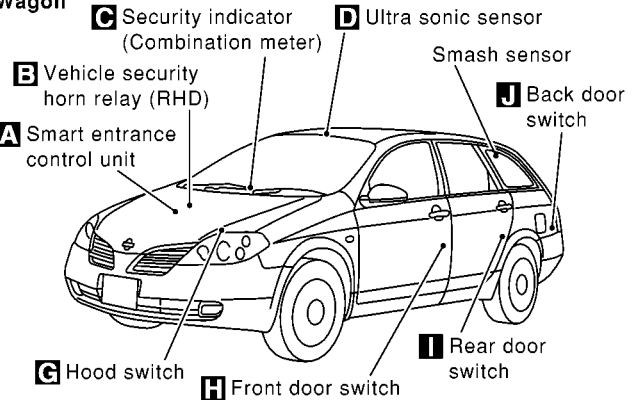
Component Parts and Harness Connector Location

EIS0051Q

Sedan



Wagon

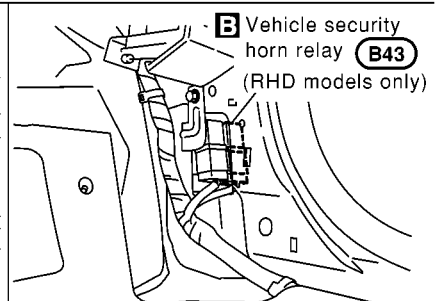
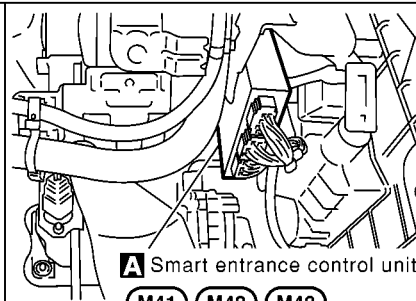


Fuse block (J/B)

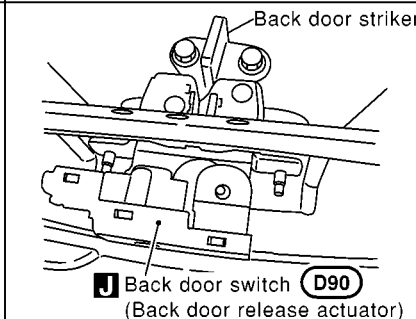
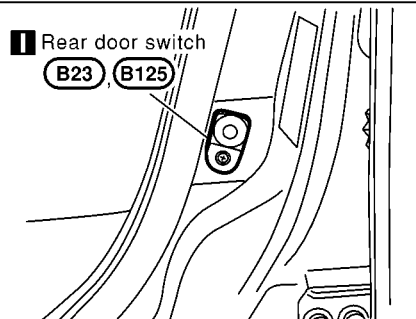
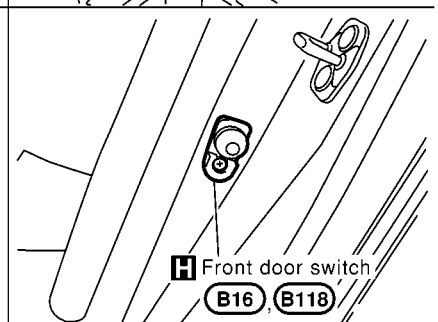
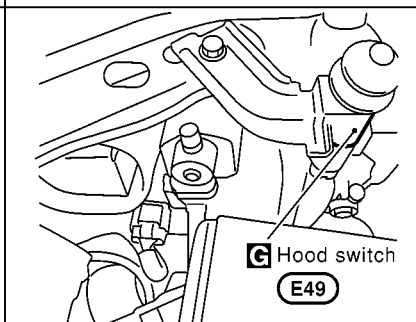
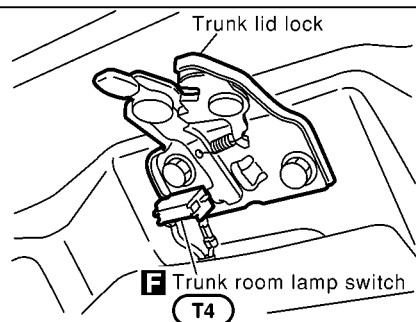
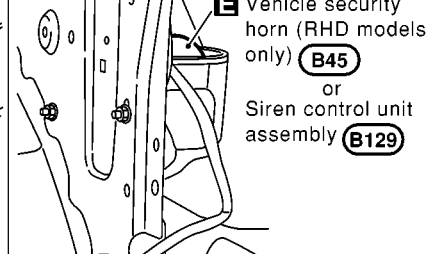
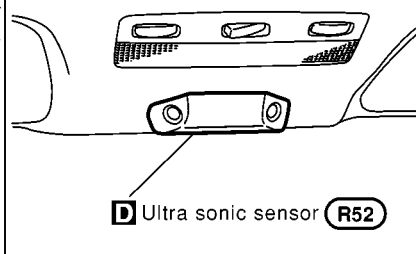
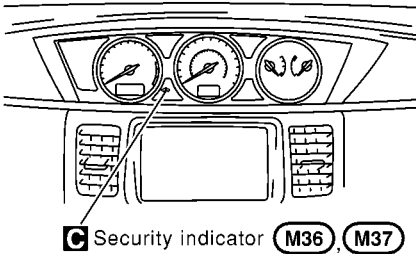
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16			17	18	19	20
21	22	23	24	25	26	27	28	29	30	31



UP



Combination meter



SI1A1646E

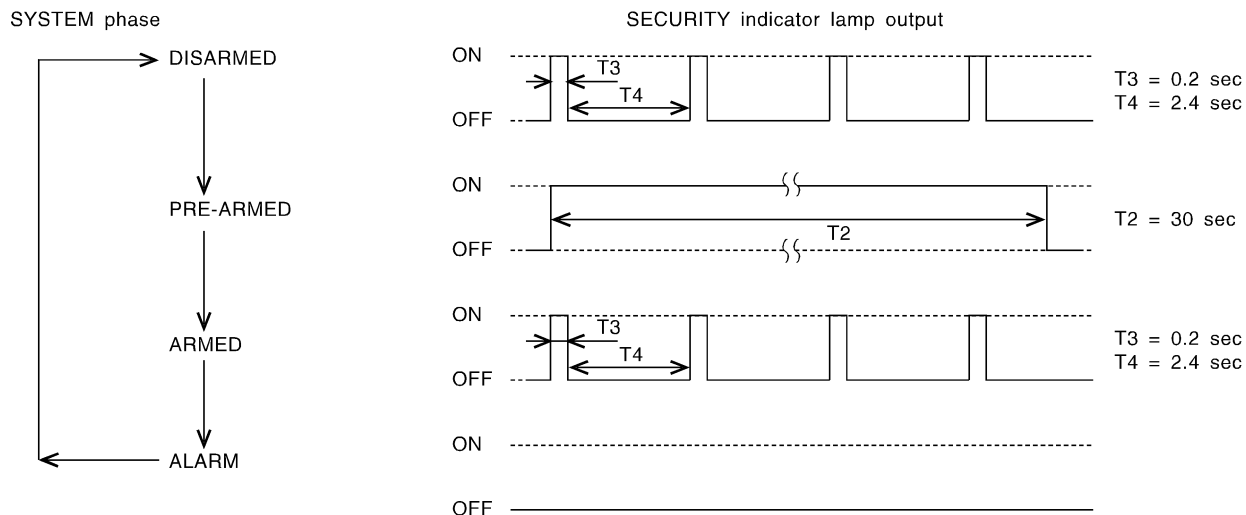
THEFT WARNING SYSTEM

System Description

DESCRIPTION

EIS0051R

Operation Flow



SEL334W

Setting The Theft Warning System

Initial condition

1. Ignition switch is in OFF position.
2. Close all doors.
3. Close hood and trunk lid (Sedan) or back door (Wagon).

Disarmed phase

- When the vehicle security system is in the disarmed phase, the security indicator lamp blinks every 2.6 seconds.

Pre-armed phase and armed phase

When the following operation 1 or 2 is performed, the vehicle security system turns into the "pre-armed" phase. (The security indicator lamp illuminates.)

1. Smart entrance control unit receives LOCK signal from controller after hood, all doors and trunk (Sedan) are closed.
2. Hood, all doors and trunk (Sedan) are closed after front doors are locked by key, lock/unlock switch or remote controller.

After about 30 seconds, the system automatically shifts into the "armed" phase (the system is set). (The security indicator lamp blinks every 2.6 seconds.)

Canceling The Set Theft Warning System

When the following 1 or 2 operation is performed, the armed phase is canceled.

1. Unlock the doors with remote controller.
2. Insert key in ignition key cylinder and turn it to ON.

Activating The Alarm Operation of The Theft Warning System

Make sure the system is in the armed phase. (The security indicator lamp blinks every 2.6 seconds.)

When the following operation 1, 2, 3, 4 or 5 is performed, the system sounds the horns and flashes about 30 seconds.

1. Engine hood, trunk lid (Sedan), back door (Wagon) or any doors is opened before unlocking door with the remote controller.
2. A door is unlocked without using the remote controller.
3. The ignition is switched ON without using a NATS registered key.
4. The ultra sonic sensing is triggered.
5. Disconnecting and connecting the battery connector before canceling armed phase.

THEFT WARNING SYSTEM

POWER SUPPLY AND GROUND

Power is supplied at all times

- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to combination meter (security indicator lamp) terminal 52 and
- to smart entrance control unit terminal 56.
- through 10A fuse [No. 13, located in the fuse block (J/B)]
- to siren control unit terminal 2.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 10, located in the fuse block (J/B)]
- to smart entrance control unit terminal 29.
- through 10A fuse [No. 30, located in the fuse block (J/B)]
- to combination meter (security indicator lamp) terminal 51.

Ground is supplied

- to smart entrance control unit terminals 53
- through body grounds M16, M50 and M70.
- to siren control unit terminal 5
- through body ground B120.

INITIAL CONDITION TO ACTIVE THE SYSTEM

The operation of the theft warning system is controlled by the doors, hood and trunk (Sedan).

To activate the theft warning system, the smart entrance control unit must receive signals indicating the doors, hood and trunk (Sedan) are closed.

When a door is open, smart entrance control unit terminal 39, 43, 44 or 45 receives a ground signal from each door switch.

When the hood is open,
ground is supplied

- to smart entrance control unit terminal 15.
- through hood switch terminal 1
- through hood switch terminal 2
- through body grounds E10, E58.

When the trunk lid (Sedan) or back door (Wagon) is open,
ground is supplied

- to smart entrance control unit terminal 16

Trunk lid (Sedan)

- through trunk room lamp switch terminal 1
- through trunk room lamp switch terminal 2
- through body grounds B120 (LHD) or B17, B24 (RHD).

Back door (Wagon or Hatch back)

- through back door release actuator terminal 2
- through back door release actuator terminal 1
- through body grounds B17, B24 and D94 (Wagon) or B17, B24 and B55 (Hatch back).

When smart entrance control unit receives LOCK signal from door lock actuator or remote controller and none of the described conditions exist, the theft warning system will automatically shift to armed mode.

THEFT WARNING SYSTEM ACTIVATION

If lock signal from remote controller is received by the smart entrance control unit, the vehicle security system will activate automatically.

NOTE:

Theft warning system can be set even though all doors are not locked.

Once the vehicle security system has been activated, smart entrance control unit terminal 34 supplies ground to terminal 5 of the security indicator lamp.

The security lamp will illuminate for approximately 30 seconds and then blinks every 2.6 seconds.

Now the vehicle security system is in armed phase.

THEFT WARNING SYSTEM

THEFT WARNING SYSTEM ALARM OPERATION

The theft warning system is triggered by

- opening a door
- opening the hood
- opening the trunk lid (Sedan) or back door (Wagon)
- triggering the ultra sonic sensor
- detection of battery disconnect and connect.

Once the vehicle security system is in armed phase, if the smart entrance control unit receives a ground signal at terminal 39, 43, 44, 45 (door switch), 15 (hood switch), 16 (trunk room lamp switch or back door switch) the vehicle security system will be triggered. The hazard lamp flashes, the horn sounds (RHD models) intermittently.

Power is supplied at all times (RHD models)

- through 20A fuse (No, 7 located in fuse and fusible link box)
- to vehicle security horn relay terminal 2 and 5.

When the vehicle security system is triggered, ground is supplied intermittently (RHD models)

- to vehicle security horn relay terminal 1
- through smart entrance control unit terminal 27.

When vehicle security horn relay are energized, then power is supplied to horn.

The horn sounds intermittently.

The alarm automatically turns off after 50 seconds but will reactivate if the vehicle is tampered with again.

THEFT WARNING SYSTEM DEACTIVATION

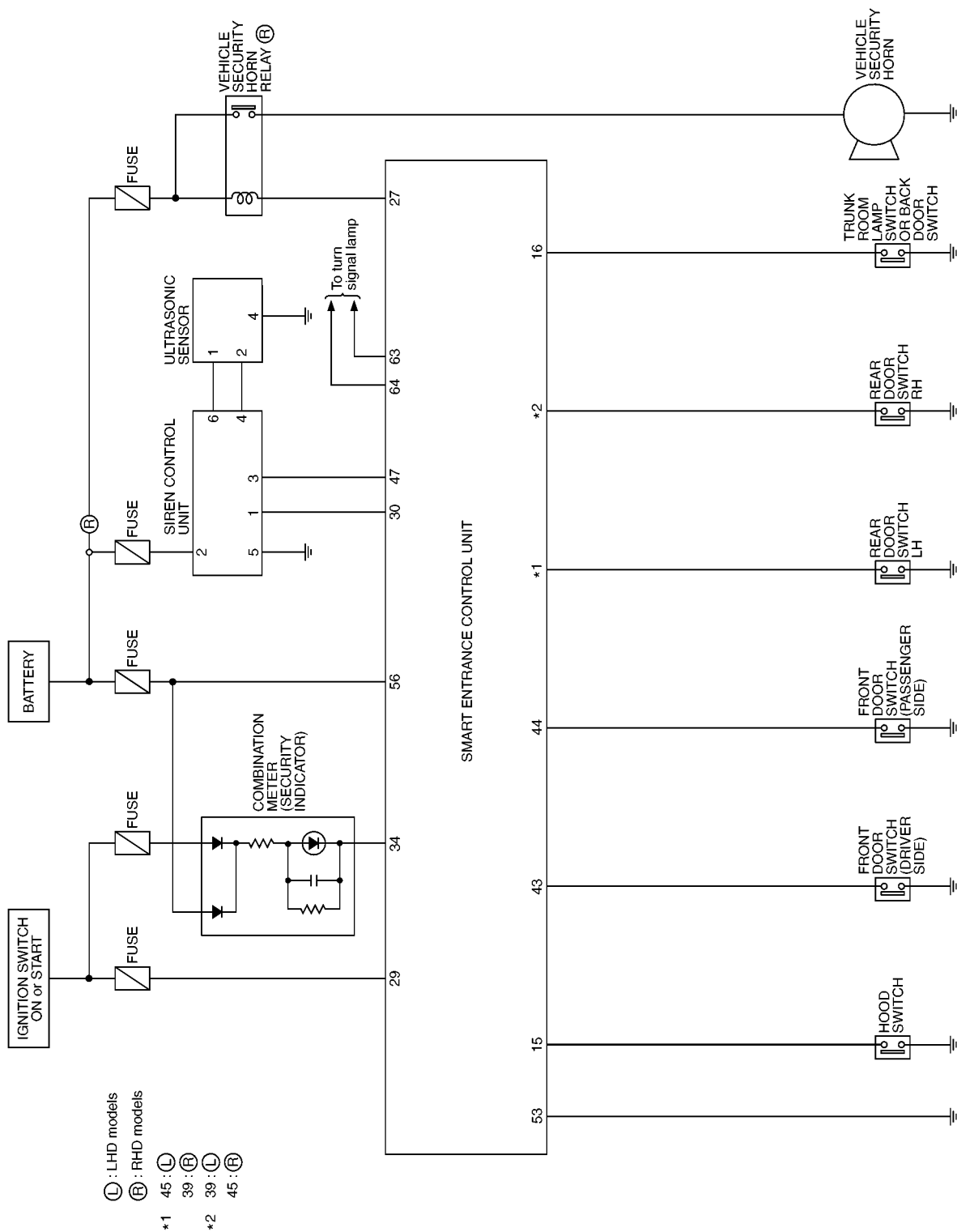
To deactivate the theft warning system, a door must be unlocked with the key or remote controller.

When the smart entrance control unit receives either one of these signals or unlock signal from remote controller, the theft warning system is deactivated. (Disarmed phase)

THEFT WARNING SYSTEM

Schematic

E/S005/S



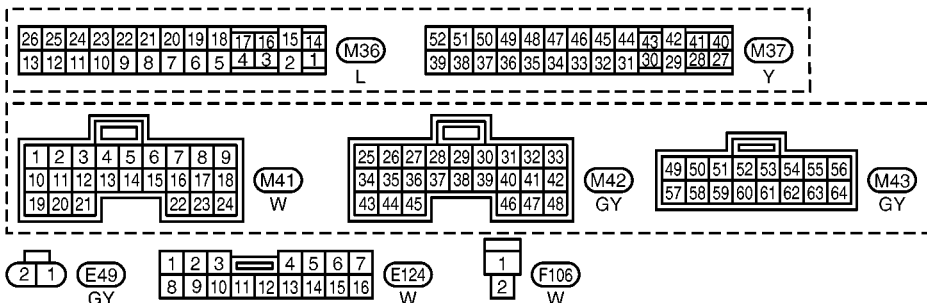
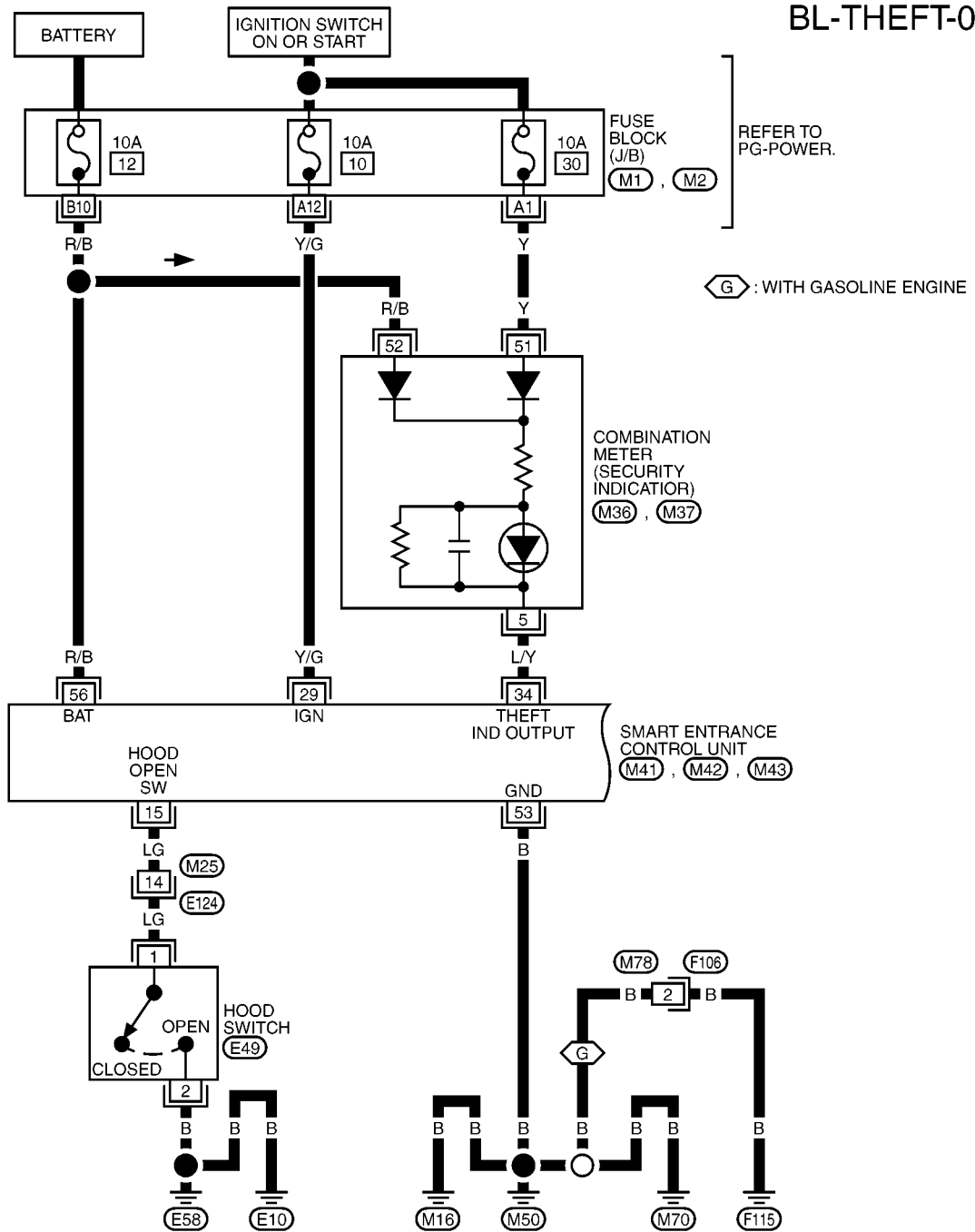
MKWA0966E

THEFT WARNING SYSTEM

Wiring Diagram — THEFT — LHD MODELS

EIS0051T

BL-THEFT-01

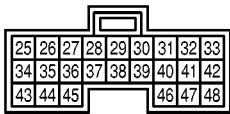
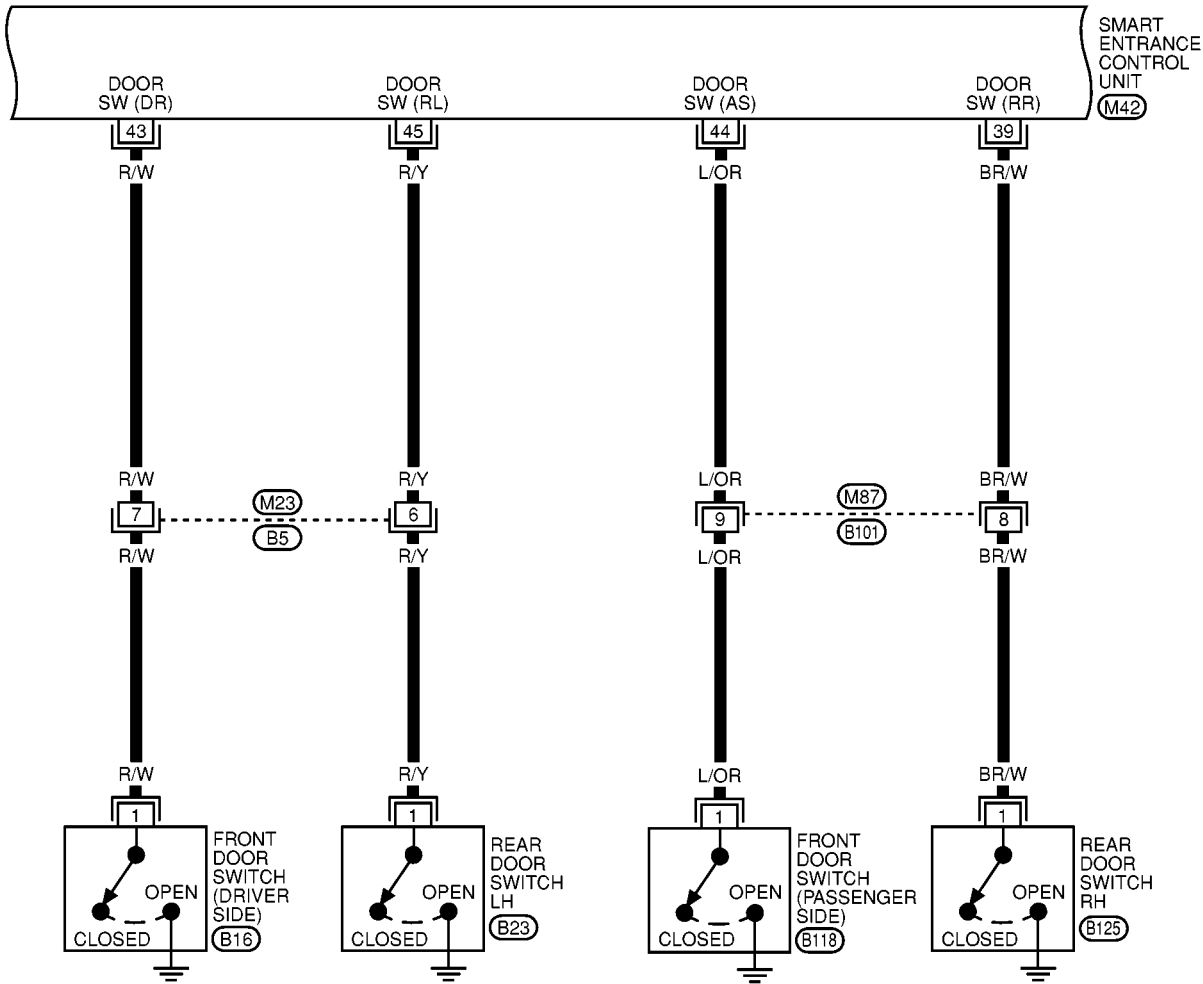


REFER TO THE FOLLOWING.
M1, M2 - FUSE BLOCK-
JUNCTION BOX (J/B)

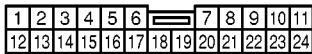


THEFT WARNING SYSTEM

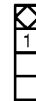
BL-THEFT-02



(M42)
GY



(M87)
W



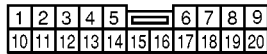
(B16)
W

(B118)
W



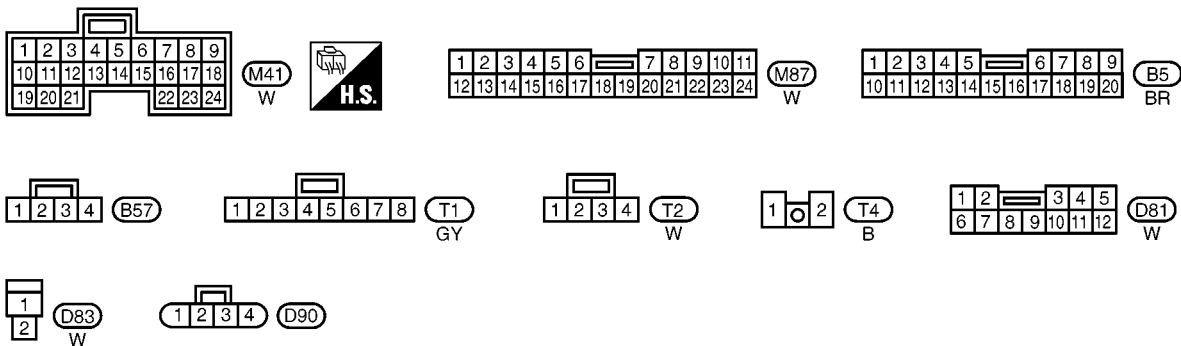
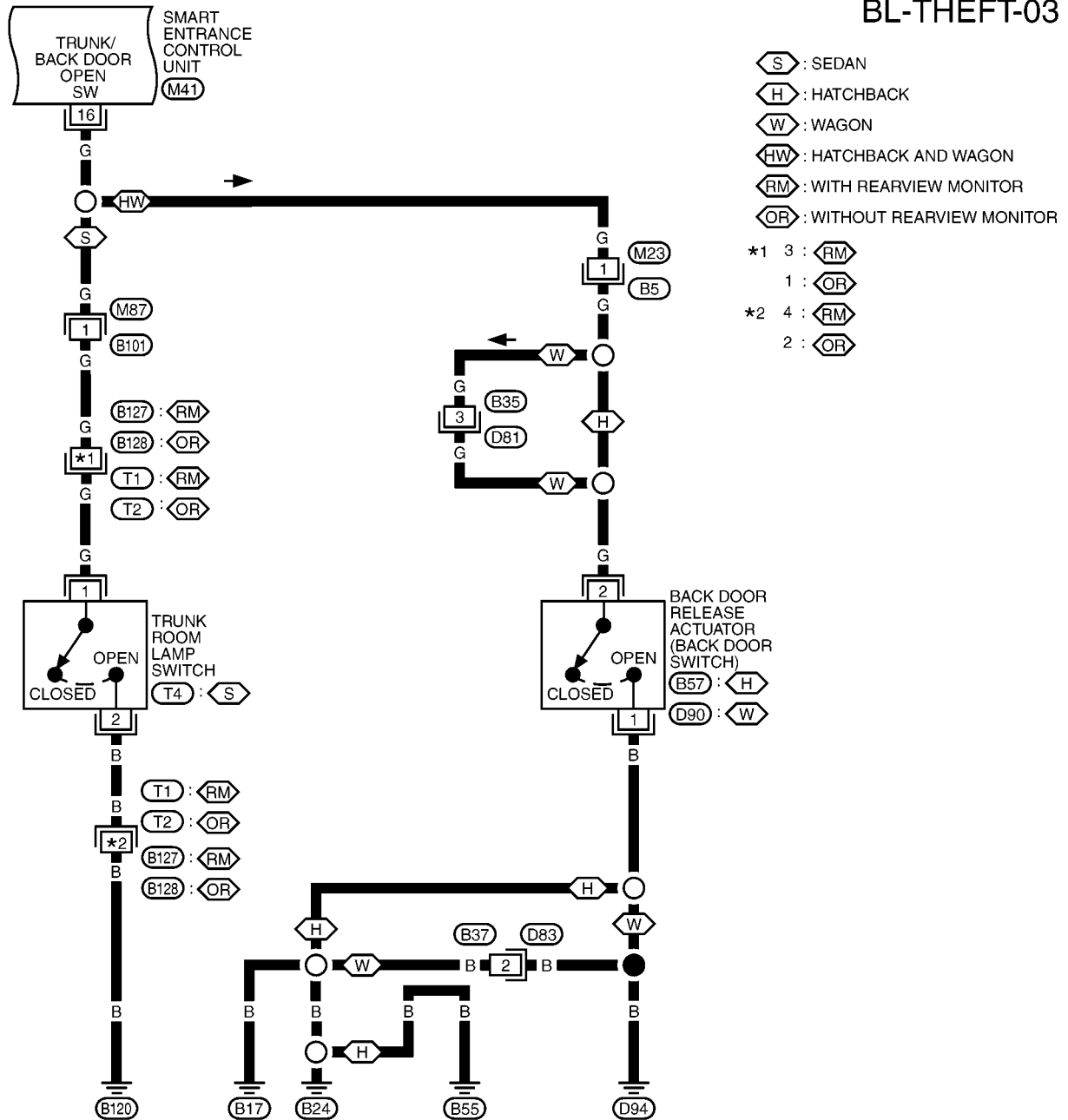
(B23)
W

(B125)
W



(B5)
BR

BL-THEFT-03



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BL

J

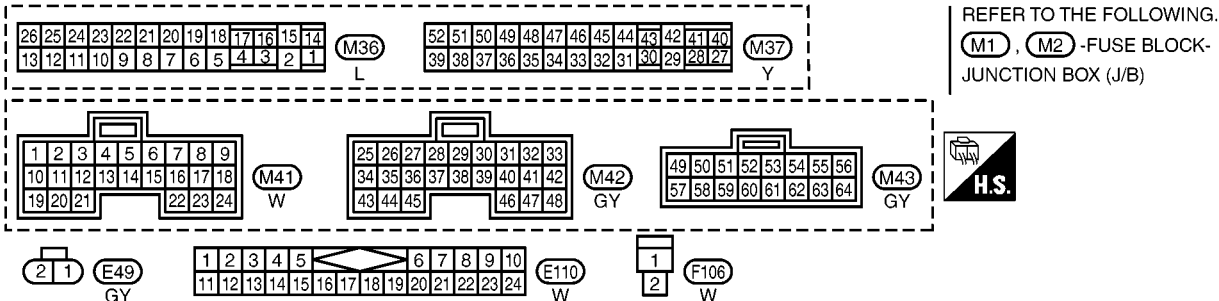
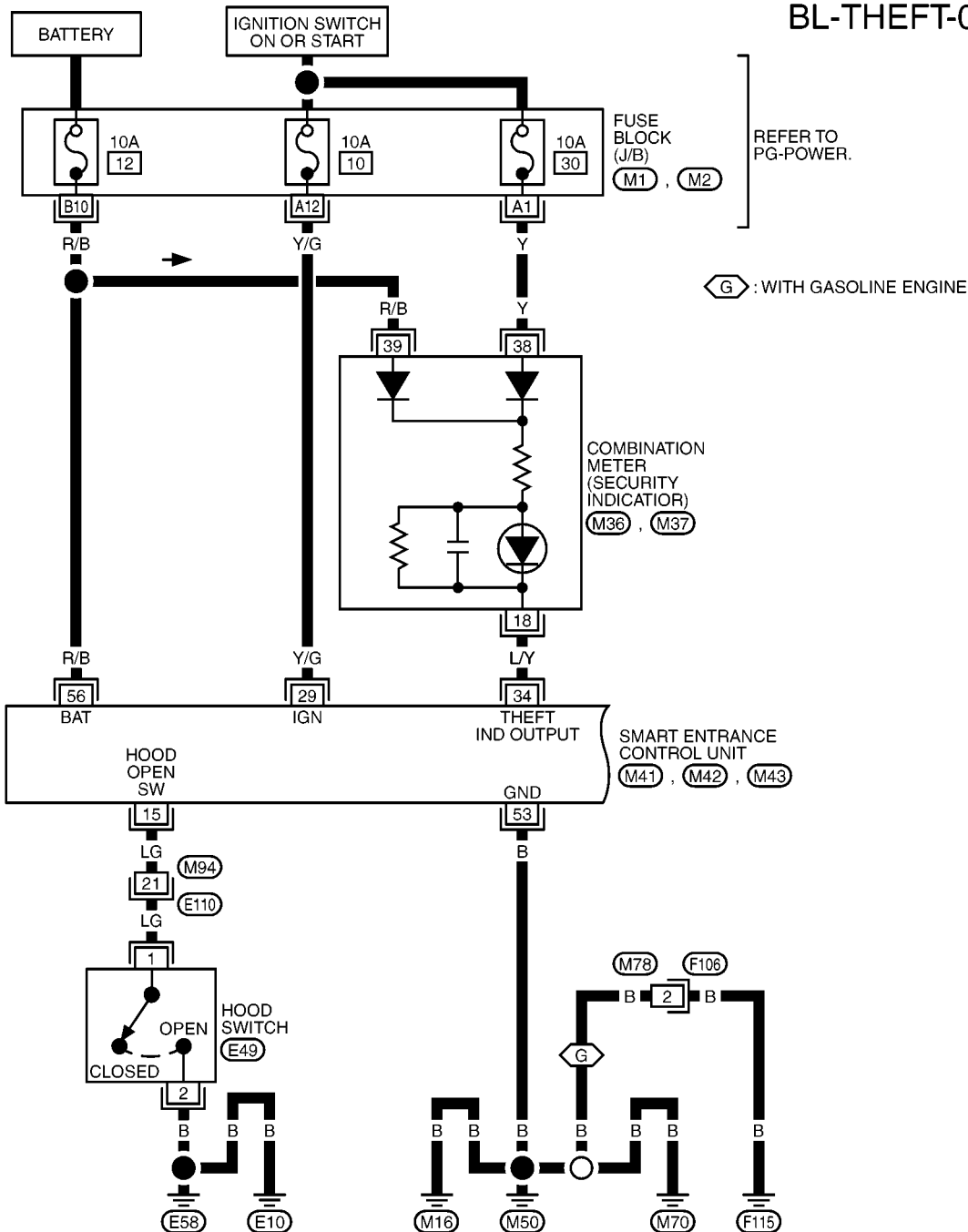


M

THEFT WARNING SYSTEM

RHD MODELS

BL-THEFT-05



THEFT WARNING SYSTEM

BL-THEFT-06

- ES

 : WITH ESP
- OE

 : WITHOUT ESP
- *1

 11 :

ES
- 9

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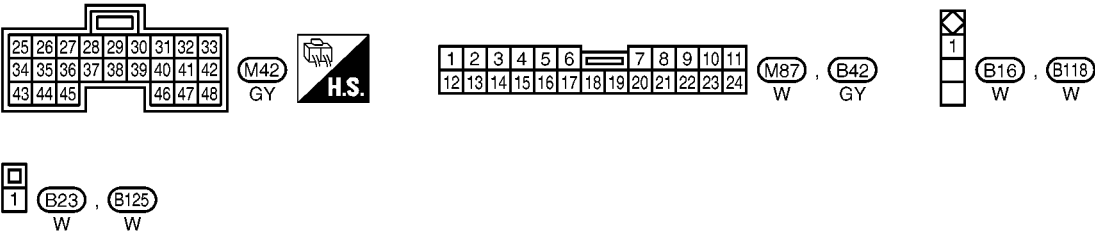
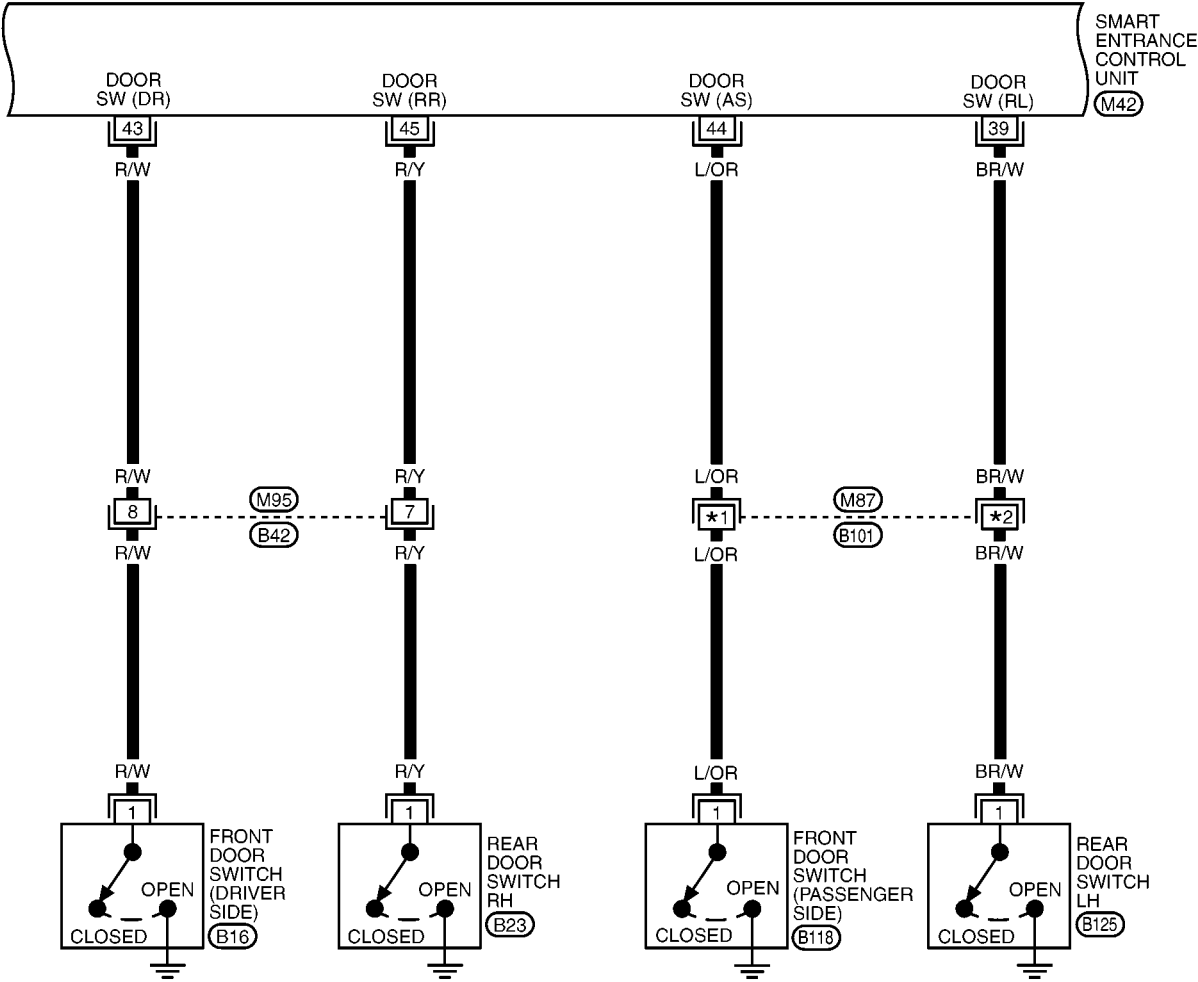
OE
- *2

 24 :

ES
- 8

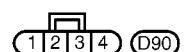
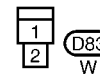
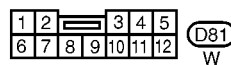
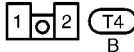
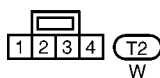
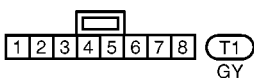
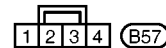
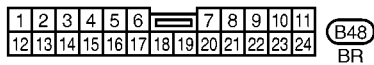
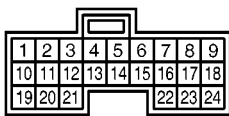
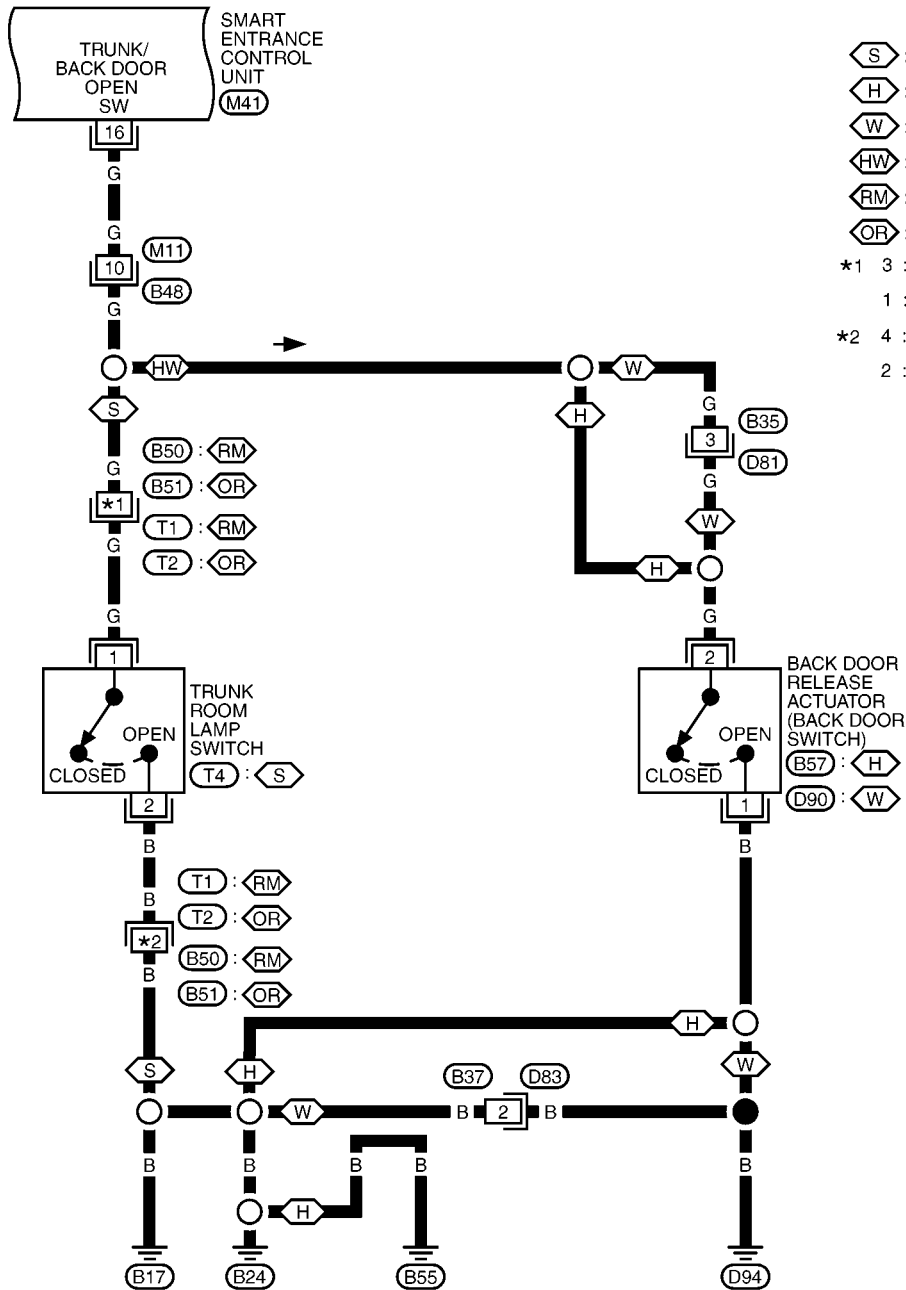
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OE



THEFT WARNING SYSTEM

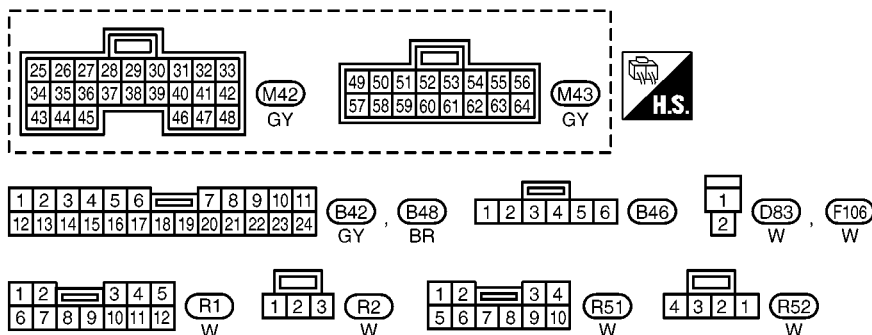
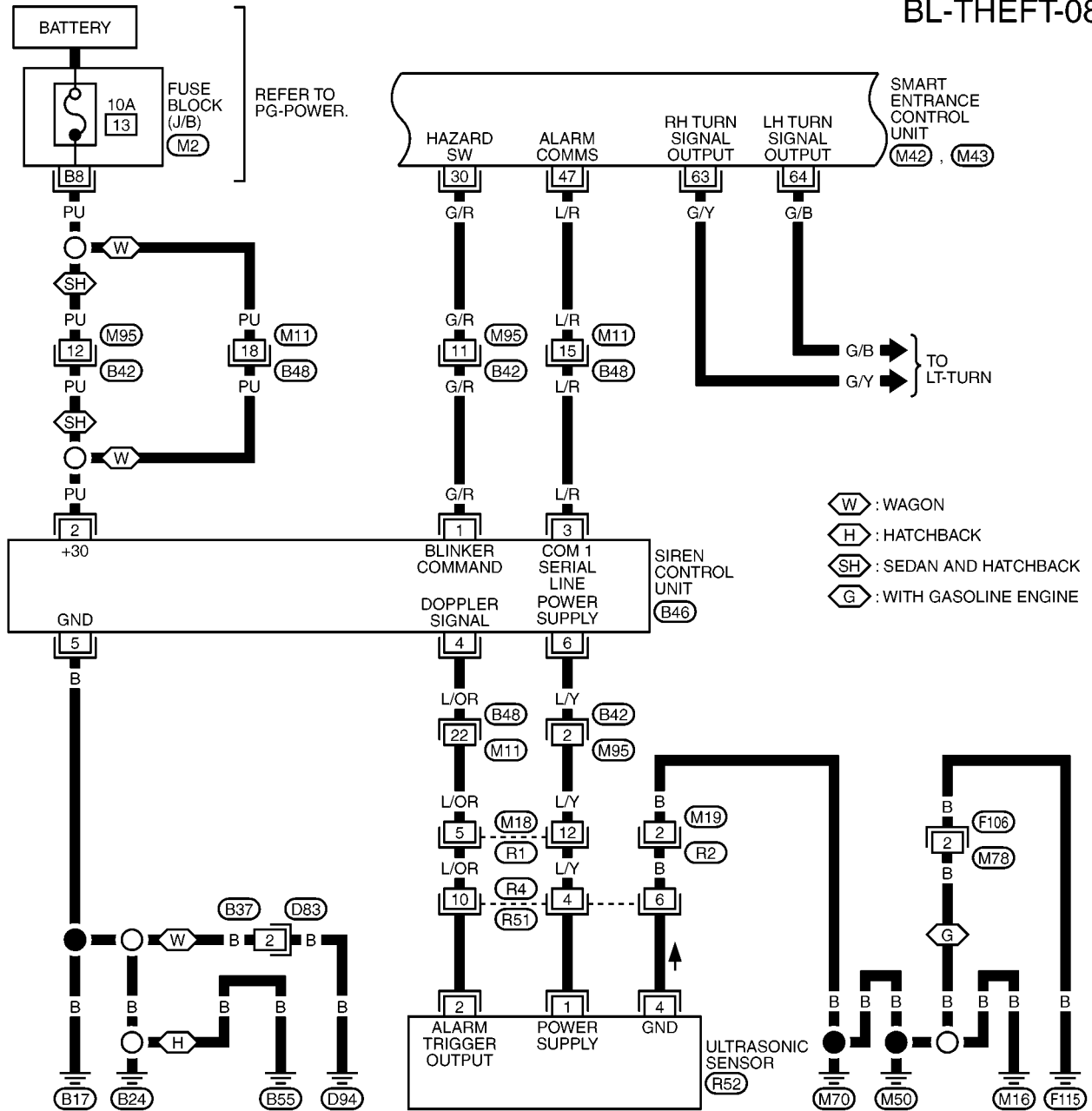
BL-THEFT-07



MKWA0972E

THEFT WARNING SYSTEM

BL-THEFT-08

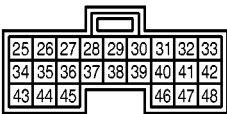
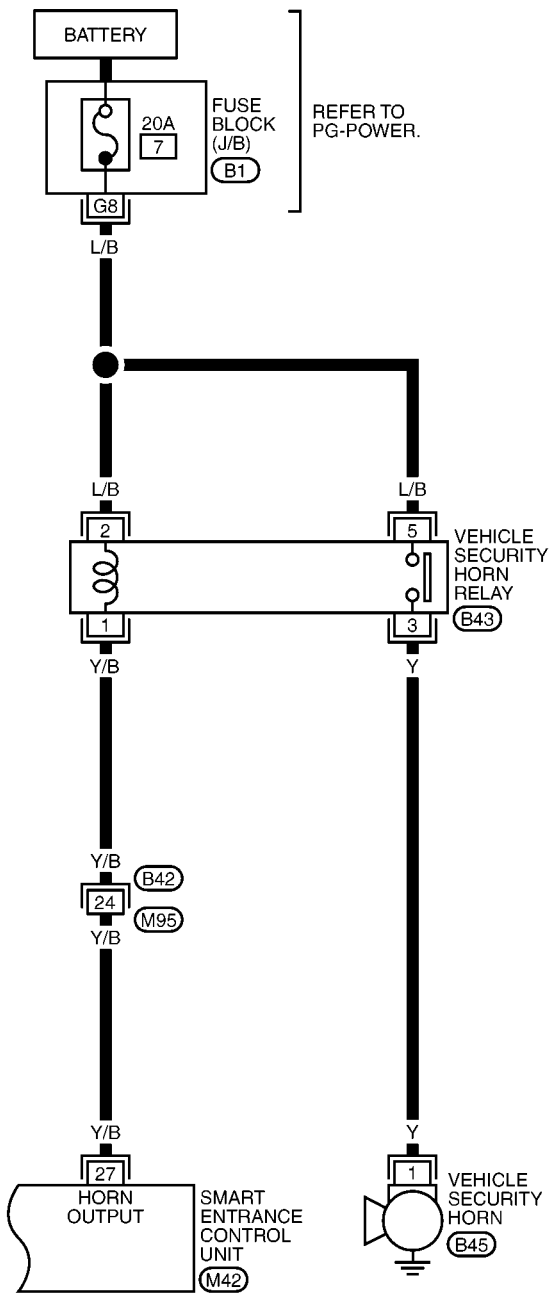


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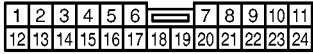
(M2) -FUSE BLOCK-JUNCTION BOX (J/B)

THEFT WARNING SYSTEM

BL-THEFT-09



M42
GY



B42
GY



B43
L

1

B45
B

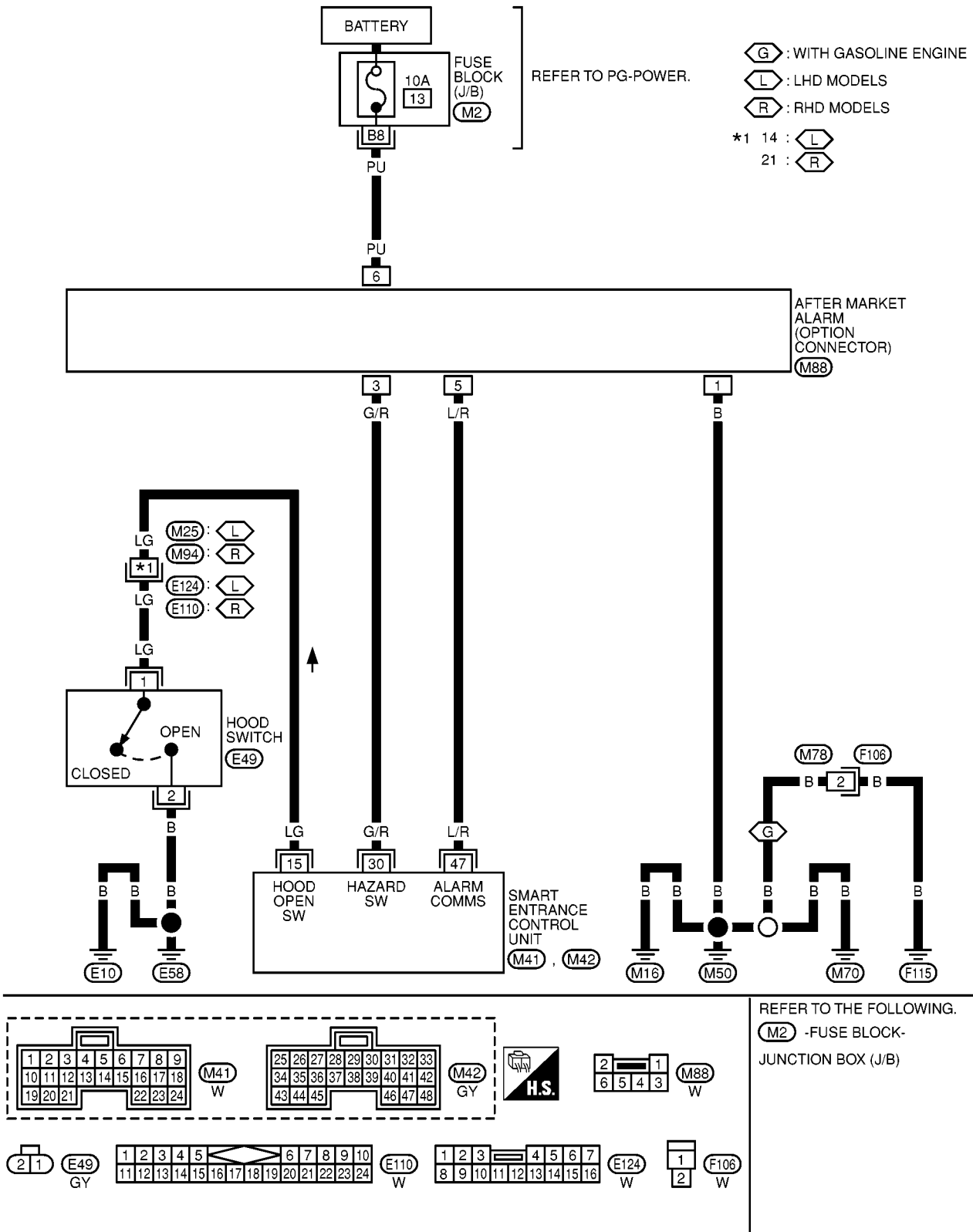
REFER TO THE FOLLOWING.
B1 -FUSE BLOCK-
JUNCTION BOX (J/B)

THEFT WARNING SYSTEM

OPTION CONNECTOR — PREWIRE —

BL-PRWIRE-01

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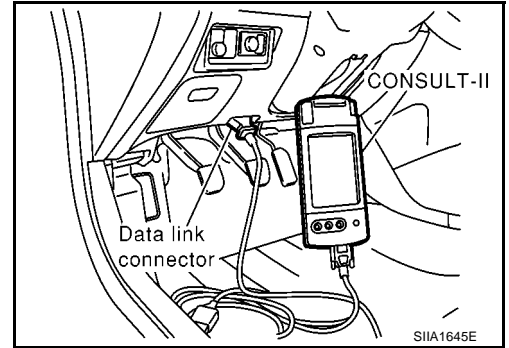


THEFT WARNING SYSTEM

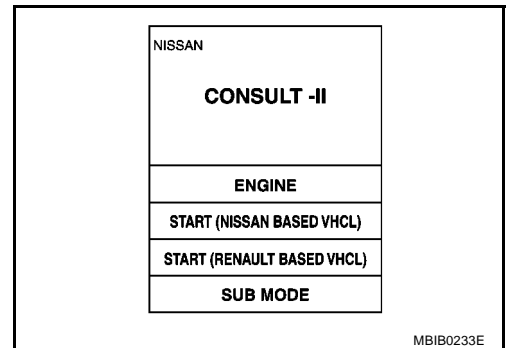
CONSULT- II Inspection Procedure

EIS005IU

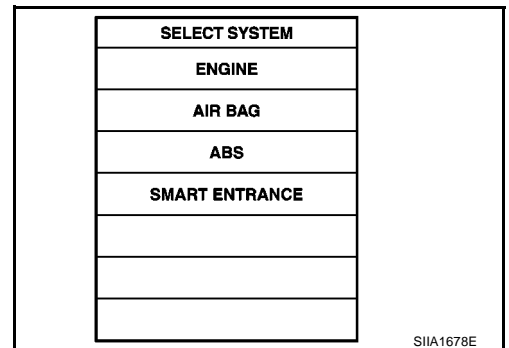
1. Turn ignition switch "OFF".
2. Connect CONSULT-II to the data link connector.



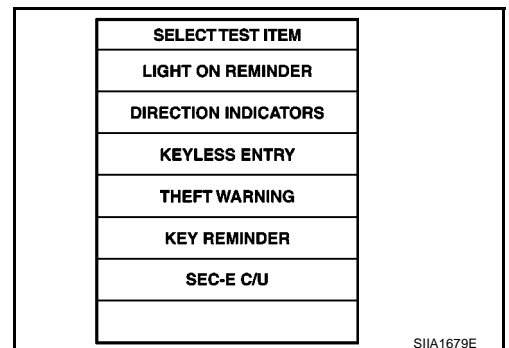
3. Turn ignition switch "ON".
4. Touch "START(NISSAN BASED VHCL)".



5. Touch "SMART ENTRANCE".

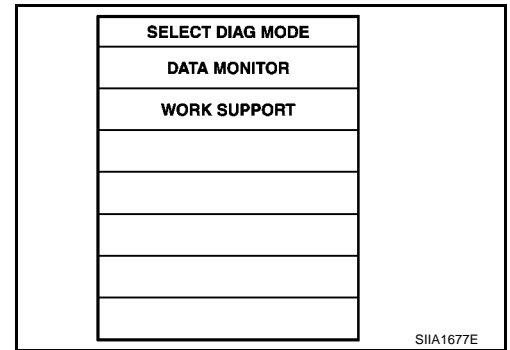


6. Touch "THEFT WARNING".



THEFT WARNING SYSTEM

7. Select diagnosis mode.
“DATA MONITOR” and “WORK SUPPORT” are available.



CONSULT- II Application Items

DATA MONITOR

EIS005IV

Monitored Item	Description
IGNITION SW	Indicates [ON/OFF] condition of ignition switch in ON position.
RR LH DOOR SW	Indicates [ON/OFF] condition of rear door switch LH.
RR RH DOOR SW	Indicates [ON/OFF] condition of rear door switch RH.
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
TRUNK OPEN SW	Indicates [ON/OFF] condition of trunk room lamp switch (sedan) or back door switch (wagon).
HOOD OPEN SW	Indicates [ON/OFF] condition of hood switch.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/ unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/ unlock switch.
DOOR SW - ALL	Indicates [ON/OFF] condition of door switch (All).
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.
RKE TRUNK REL	Indicates [ON/OFF] condition of trunk (sedan) or back door (wagon) open signal from trunk or back door release switch.

WORK SUPPORT

Test Item	Description
THEFT WARNING	This mode can be setting theft warning function.
LASTEST ALARM TRIGGER	This mode can be displayed last alarm trigger condition.
PRE- ARM FAST FLASH	This mode can be changed alarm operation.
SIREN FITTED	This mode can be setting siren condition.
PUREVIOUS ALARM TRIGGER	This mode can be displayed previous alarm trigger condition.
OLDEST ALARM TRIGGER	This mode can be displayed oldest alarm trigger condition.

Trouble Diagnoses

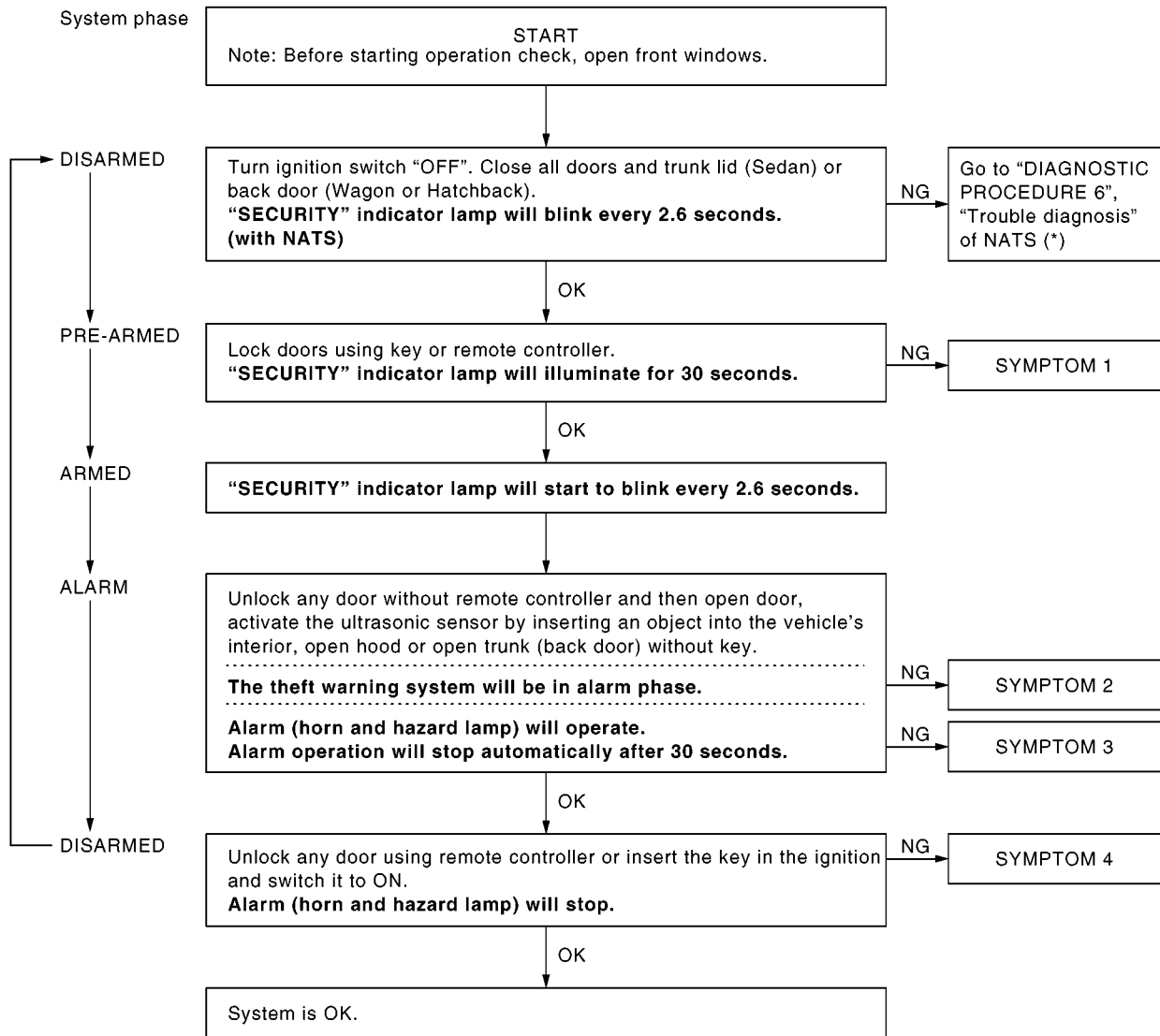
EIS005IW

First perform the “SELF-DIAG RESULTS” in “SMART ENTRANCE” with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-13, "CONSULT-II INSPECTION PROCEDURE"](#) .

THEFT WARNING SYSTEM

PRELIMINARY CHECK

The system operation is canceled by turning ignition switch to "ACC" at any step between START and ARMED in the following flow chart.



SI1A1648E

After performing preliminary check, go to symptom chart. Refer to [BL-141, "SYMPTOM CHART"](#).

THEFT WARNING SYSTEM

SYMPTOM CHART

PROCEDURE			Diagnostic procedure	Reference page
SYMPTOM				
1	Theft warning system cannot be set by	All items	Smart entrance control unit power supply and ground circuit check	BL-141
			Door switch check	BL-142
			Hood switch check	BL-146
			Trunk room lamp switch or back door switch check	BL-144
			If the above systems are “OK”, replace smart entrance control unit.	—
		Remote controller	Check “MULTI-REMOTE CONTROL” system.	BL-79
	Security indicator does not turn “ON”.		Security indicator lamp check	BL-149
			If the above systems are “OK”, replace smart entrance control unit.	—
2	*1 Theft warning system does not alarm when	Any door is opened.	Door switch check	BL-142
			Hood switch check	BL-146
			Trunk room lamp switch or back door switch check	BL-144
			If the above systems are “OK”, replace smart entrance control unit.	—
3	Vehicle security alarm does not activate.	Horn alarm	Vehicle security horn alarm check	BL-148
		Hazard lamp alarm	Hazard lamp alarm check	BL-149
4	Theft warning system cannot be canceled by	Ignition key	Key switch check	BL-147
			Check “NATS (NISSAN ANTI-THEFT SYSTEM)” system.	BL-151
		Remote controller	Check “MULTI-REMOTE CONTROL” system.	BL-79

*1: Make sure the system is in the armed phase.

Power Supply and Ground Circuit Check

EIS005IX

1. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect smart entrance control unit connector.
- Check voltage between smart entrance control unit harness connector M43 terminal 49, 56 and ground.

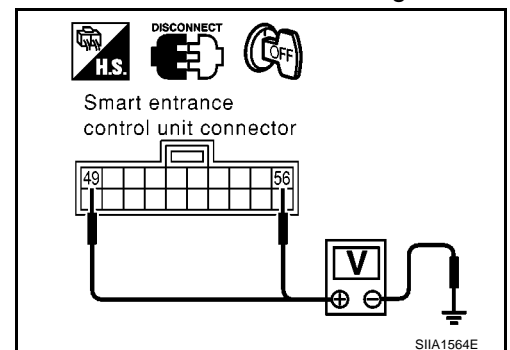
49 (W/L) - Ground : Battery voltage
56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 40A fusible link (letter B, located in the fusible link and fuse box)
- 10A fuse (No. 12, located in the fusible link and fuse box)
- Condition of circuit breaker-1
- Harness for open or short smart entrance control unit power supply circuit.



THEFT WARNING SYSTEM

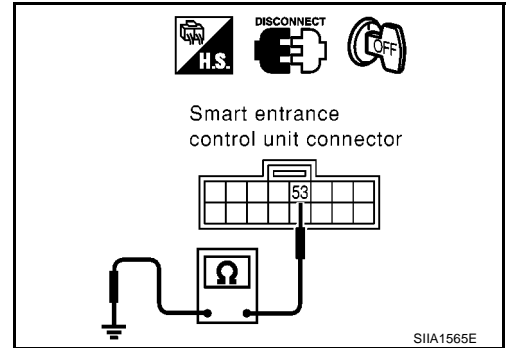
2. CHECK GROUND CIRCUIT

Check continuity between smart entrance control unit harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

- OK >> Smart entrance control unit power supply and ground circuit are OK.
 NG >> Check smart entrance control unit ground circuit for open or short.



Door Switch Check DRIVER SIDE

1. CHECK DOOR SWITCH INPUT SIGNAL

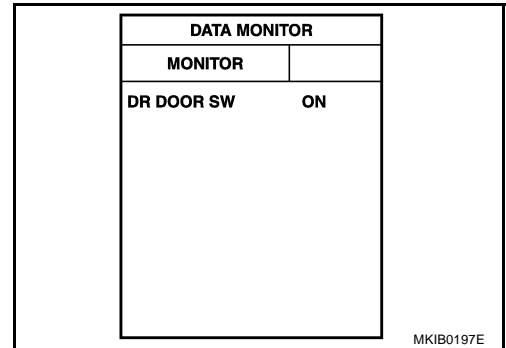
WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



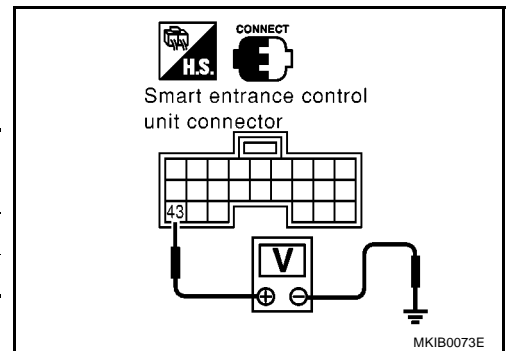
WITHOUT CONSULT-II

1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

- OK >> Door switch (driver side) is OK.
 NG >> GO TO 2.



THEFT WARNING SYSTEM

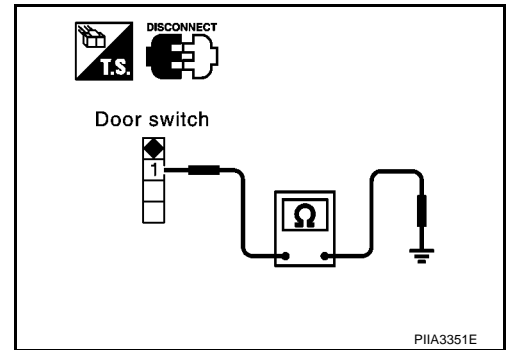
2. CHECK DRIVER SIDE DOOR SWITCH

1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal		Door switch	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

- OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).
 NG >> Replace front door switch (driver side).



EXCEPT DRIVER SIDE

1. CHECK OTHER DOORS SWITCHES INPUT SIGNAL

WITH CONSULT-II

Check other doors switch signal ("AS DOOR SW", "RR DOOR SW" or "RR RH DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

Each DOOR SW

Each door is open : ON

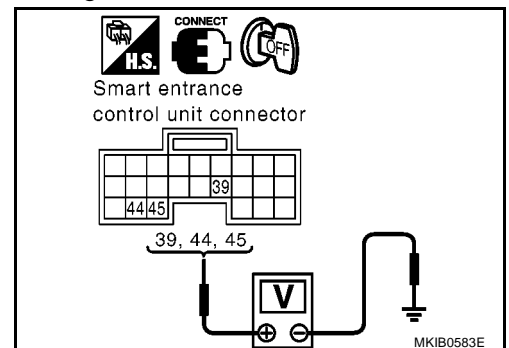
Each door is closed : OFF

DATA MONITOR	
MONITOR	
AS DOOR SW	ON
RR LH DOOR SW	ON
RR RH DOOR SW	ON

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Item	Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Rear door LH or RH	M42	39 (BR/W)	Ground	Open	0
				Closed	Battery voltage
Passenger side		44 (L/OR)		Open	0
				Closed	Battery voltage
Rear door LH or RH		45 (R/Y)		Open	0
				Closed	Battery voltage



OK or NG

- OK >> Door switch OK.
 NG >> GO TO 2.

THEFT WARNING SYSTEM

2. CHECK DOOR SWITCHES

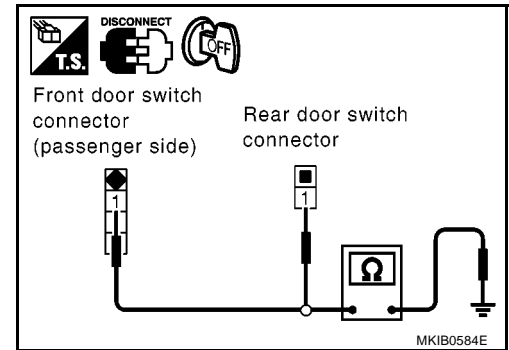
1. Turn ignition switch OFF.
2. Disconnect each door switches harness connector.
3. Check continuity between door switch terminal 1 and ground part of door switch.

Terminal		Condition	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and door switch.

NG >> Replace malfunction door switch.



Trunk Room Lamp Switch or Back Door Switch Check TRUNK ROOM LAMP SWITCH

EIS005IZ

1. CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

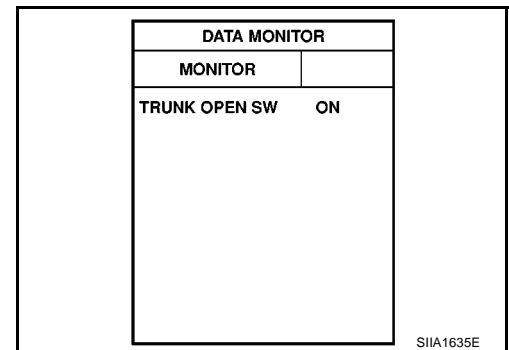
With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Trunk lid open : ON

Trunk lid close : OFF



Without CONSULT- II

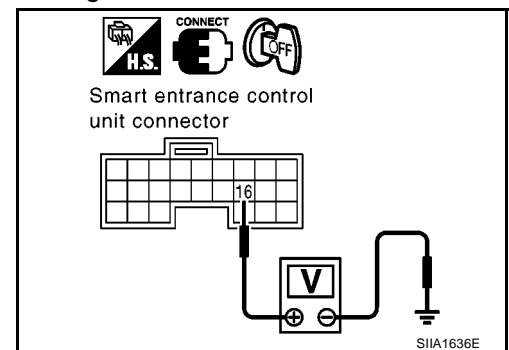
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Trunk lid	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Trunk room lamp switch is OK.

NG >> GO TO 2



THEFT WARNING SYSTEM

2. CHECK TRUNK ROOM LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk room lamp switch harness connector.
3. Check continuity between trunk room lamp switch terminals 1 and 2.

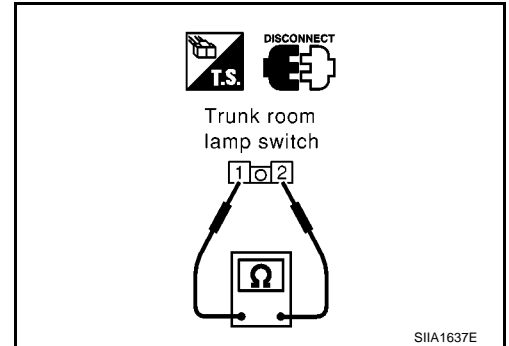
Terminal		Trunk lid condition	Continuity
1	2	Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Trunk room lamp switch ground circuit
- Harness for open or short between smart entrance control unit and trunk room lamp switch

NG >> Replace trunk room lamp switch.



BACK DOOR SWITCH

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

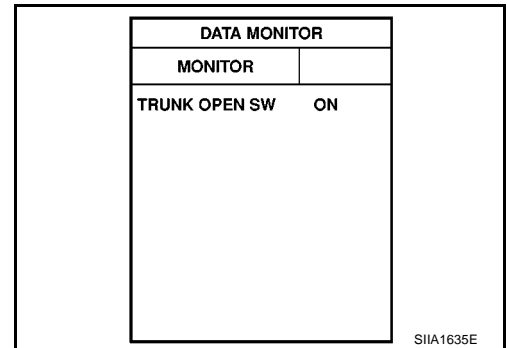
With CONSULT- II

Check door switch "TRUNK OPEN SWITCH" in "DATA MONITOR" mode with CONSULT- II.

TRUNK OPEN SW

Back door open : ON

Back door close : OFF



Without CONSULT- II

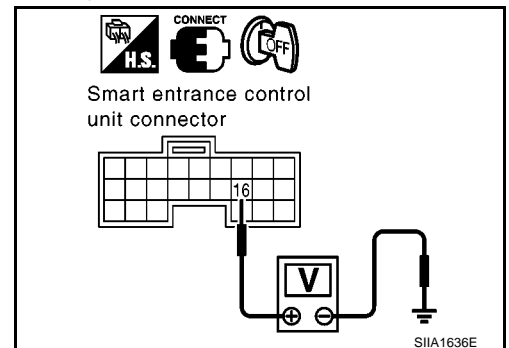
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Back door	Voltage (V) (Approx.)
	(+)	(-)		
M41	16 (G)	Ground	Closed	5
			Open	0

OK or NG

OK >> Back door switch is OK.

NG >> GO TO 2



THEFT WARNING SYSTEM

2. CHECK BACK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door release actuator connector.
3. Check continuity between back door release actuator terminals 1 and 2.

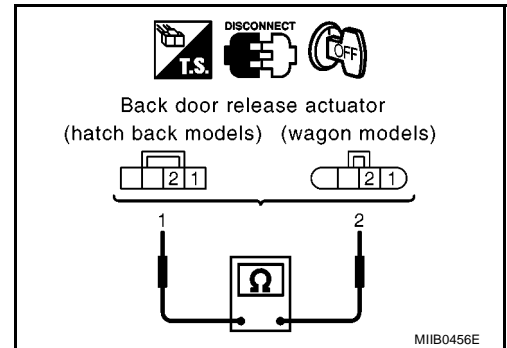
Terminal		Back door condition	Continuity
1	2	Opened	Yes
		Closed	No

OK or NG

OK >> Check the following.

- Back door release actuator ground circuit
- Harness for open or short between smart entrance control unit and back door release actuator

NG >> Replace back door release actuator.



Hood Switch Check

1. CHECK HOOD SWITCH INPUT SIGNAL

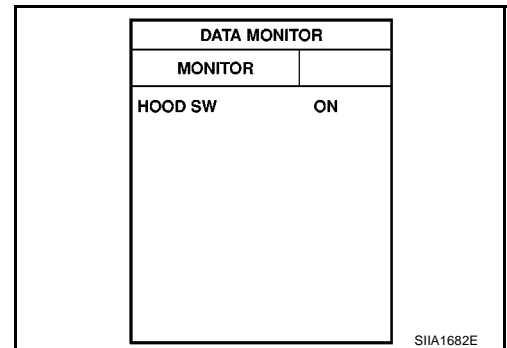
With CONSULT-II

Check "HOOD SWITCH" in "DATA MONITOR" mode with CONSULT-II.

HOOD SW

Engine hood is open : HOOD SW ON

Engine hood is closed : HOOD SW OFF



Without CONSULT-II

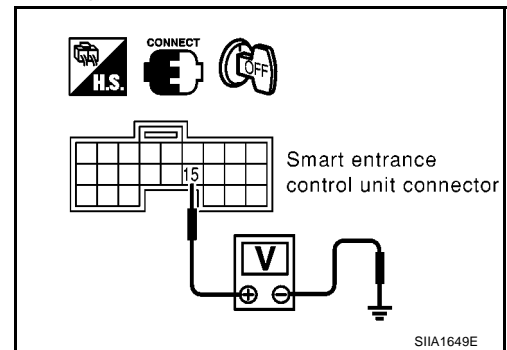
Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Engine hood	Voltage (V) (Approx.)
	(+)	(-)		
M41	15 (LG)	Ground	Open	0
			Closed	5

OK or NG

OK >> Hood switch is OK.

NG >> GO TO 2.



2. CHECK DOOR SWITCH

Check hood switch and hood fitting condition.

OK or NG

OK >> GO TO 3.

NG >> Adjust installation of hood switch.

THEFT WARNING SYSTEM

3. CHECK HOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect hood switch connector.
3. Check continuity between hood switch terminals.

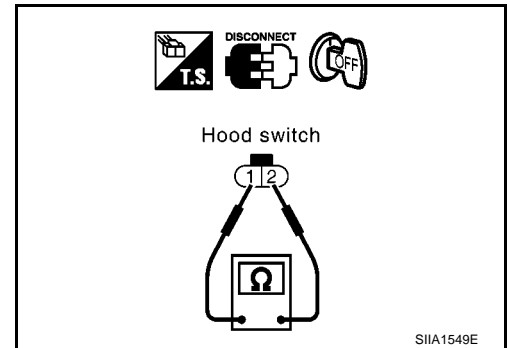
Terminals		Condition	Continuity
1	2	Pushed	No
		Released	Yes

OK or NG

OK >> Check the following.

- Hood switch ground circuit
- Harness for open or short between hood switch and smart entrance control unit

NG >> Replace hood switch.



EIS005J1

Key Switch Check

1. CHECK KEY SWITCH INPUT SIGNAL

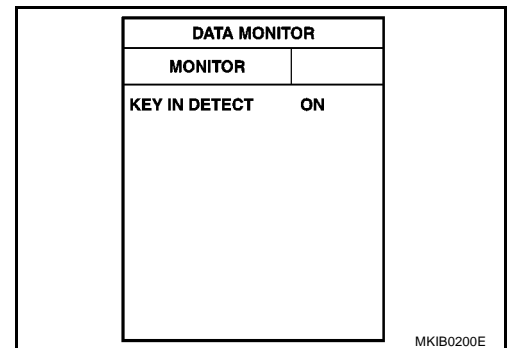
Ⓜ WITH CONSULT-II

Check key switch signal ("KEY IN DETECT") in "DATA MONITOR" mode with CONSULT-II.

KEY IN DETECT

Key is inserted in ignition cylinder : ON

Key is removed from ignition key cylinder : OFF



⊗ WITHOUT CONSULT-II

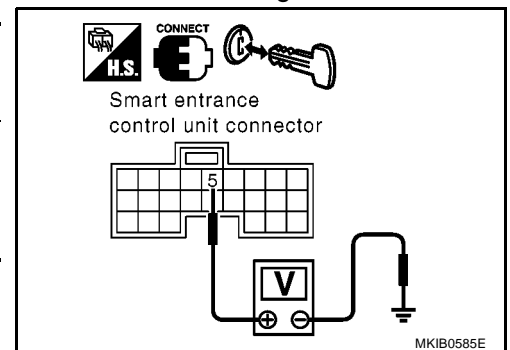
Check voltage between smart entrance control unit harness connector M41 terminal 5 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	5 (B/R)	Ground	Key is inserted	Battery voltage
			Key is removed	0

OK or NG

OK >> Key switch is OK.

NG >> GO TO 2.



THEFT WARNING SYSTEM

2. CHECK KEY SWITCH

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminal 1 and 2.

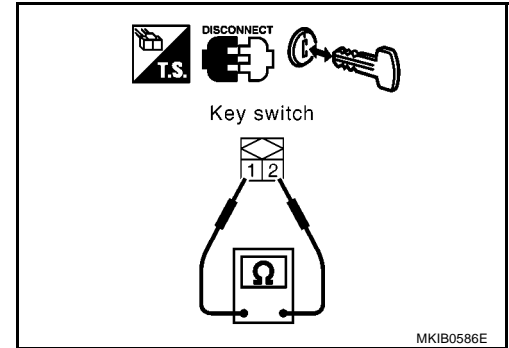
Terminal		Condition	Continuity
1	2	Key is inserted	Yes
		Key is removed	Yes

OK or NG

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



Vehicle Security Horn Alarm Check

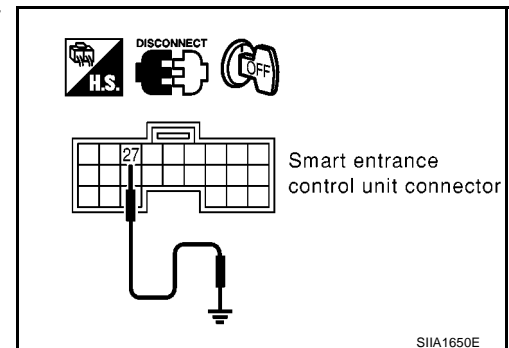
EIS005J2

1. CHECK VEHICLE SECURITY HORN OPERATION

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit harness connector.
3. Apply ground to smart entrance control unit harness connector M42 terminal 27(Y/B).

Does horn operate?

- Yes >> Replace smart entrance control unit.
No >> GO TO 2.



2. CHECK VEHICLE SECURITY HORN RELAY POWER SUPPLY

1. Disconnect vehicle security horn relay connector.
2. Check voltage between vehicle security horn relay harness connector B43 terminal 2, 5 and ground.

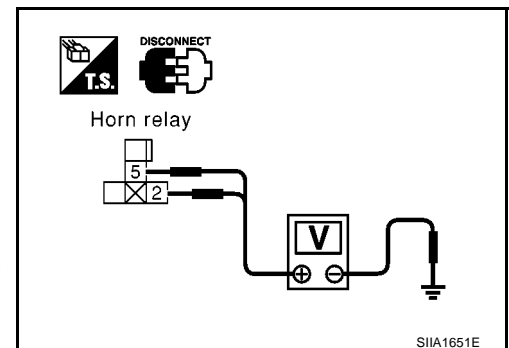
2 - Ground : Battery voltage
5 - Ground : Battery voltage

OK or NG

OK >> Check the following.

- Harness for open or short between smart entrance control unit and vehicle security horn relay
- Harness open or short between vehicle security horn relay and ground
- Harness open or short between vehicle security horn relay and vehicle security horn

NG >> Check harness open or short between vehicle security horn relay and fuse.



THEFT WARNING SYSTEM

Hazard Lamp Alarm Check

EIS005J3

1. CHECK HAZARD WARNING LAMP

Check if hazard warning lamp flashes with hazard switch.

Does hazard warning lamp operate?

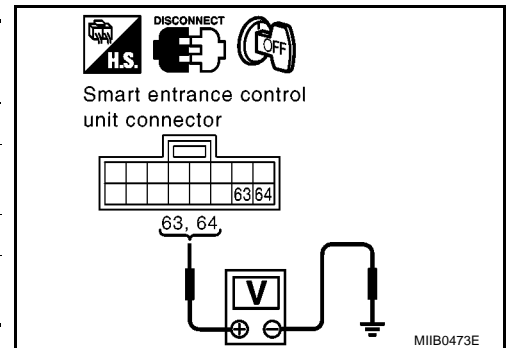
Yes >> GO TO 2.

No >> Check hazard warning lamp circuit.

2. CHECK HAZARD REMINDER OPERATION

Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminals (wire color)		Remote controller	Voltage (V) (Approx.)
	(+)	(-)		
M43	5 (B/R)	Ground	Lock	0 → Battery voltage → 0
			Unlock	0 → Battery voltage → 0 → Battery voltage → 0
	64 (G/B)		Lock	0 → Battery voltage → 0
			Unlock	0 → Battery voltage → 0 → Battery voltage → 0



OK or NG

OK >> Check harness for open or short between smart entrance control unit and hazard switch.

NG >> Replace smart entrance control unit.

Security Indicator Lamp Check

EIS005J4

1. CHECK FUSE

- Check 10A fuse [No.12, located in the fuse block (J/B)]
- Check 10A fuse [No.30, located in the fuse block (J/B)]

OK or NG

OK >> GO TO 2

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK SECURITY INDICATOR LAMP

1. Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II Operation Manual NATS".
2. Turn ignition switch OFF.
3. Start engine and turn ignition switch OFF.
4. Check the security indicator lamp lighting.

Security indicator lamp should be light up?

Yes >> Inspection END.

No >> GO TO 3

THEFT WARNING SYSTEM

3. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

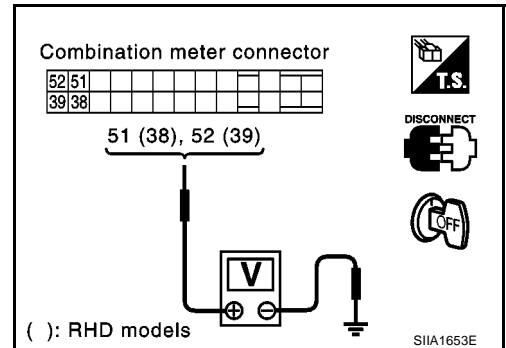
1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M37 terminal 38, 39 (RHD models) or 51, 52 (LHD models) and ground.

38 - Ground : Battery voltage
39 - Ground : Battery voltage
51 - Ground : Battery voltage
52 - Ground : Battery voltage

OK or NG

OK >> GO TO 4

NG >> Check harness for open or short between fuse and security indicator lamp.



4. CHECK SMART ENTRANCE CONTROL UNIT FUNCTION

Check continuity between smart entrance control unit harness connector M42 terminal 34 and ground.

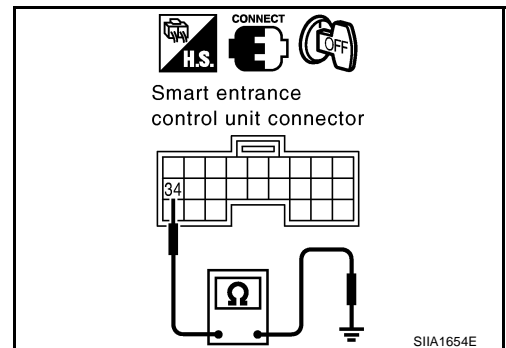
34 (L/Y) - Ground : Continuity should exist intermittently.

OK or NG

OK >> Check harness for open or short between smart entrance control unit and combination meter.

NG >> Smart entrance control unit is malfunctioning.

- Replace smart entrance control unit
- Perform initialization with CONSULT-II
- For initialization, refer to "CONSULT-II operation manual NATS"



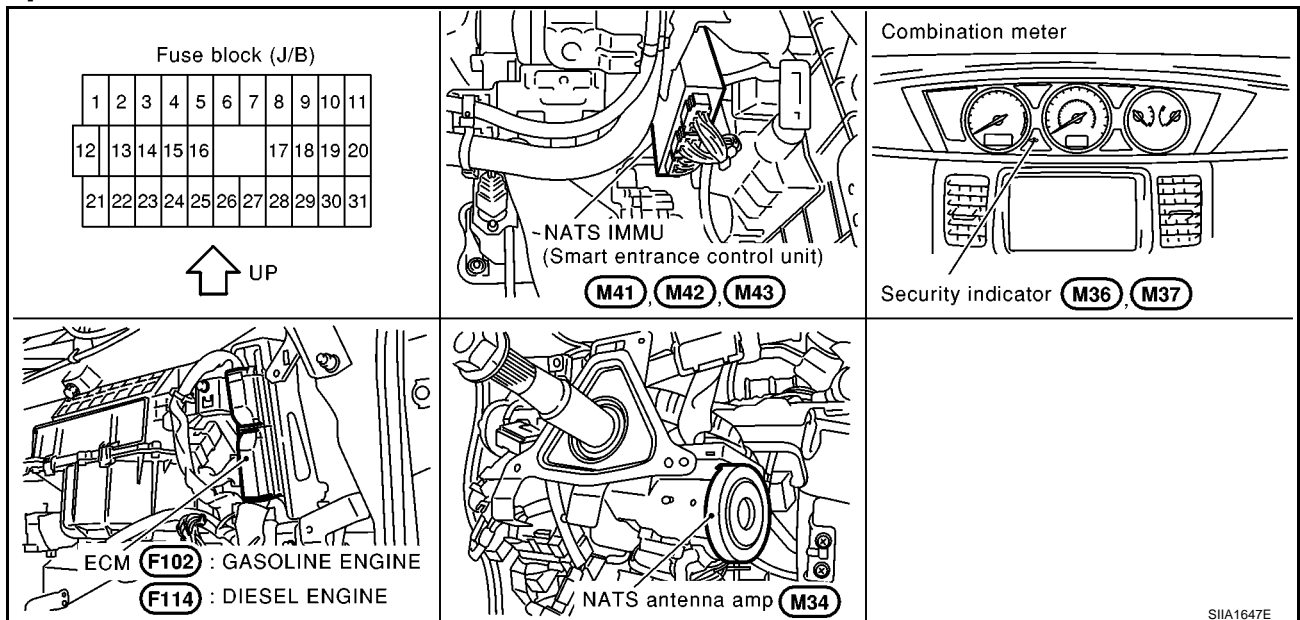
NATS (NISSAN ANTI-THEFT SYSTEM)

NATS (NISSAN ANTI-THEFT SYSTEM)

PFP:25386

Component Parts and Harness Connector Location

EIS005J6



NATS (NISSAN ANTI-THEFT SYSTEM)

System Description

EIS005J7

NATS (Nissan Anti-Theft System) has the following immobilizer functions:

- Since only NATS ignition keys, whose ID nos. have been registered into the ECM and IMMU (Smart entrance control unit) of NATS, allow the engine to run, operation of a stolen vehicle without a NATS registered key is prevented by NATS.
That is to say, NATS will immobilize the engine if someone tries to start it without the registered key of NATS.
- This version of NATS has dongle unit to improve its anti-theft performance (RHD models). Dongle unit has its own ID which is registered into NATS IMMU (Smart entrance control unit). So if dongle unit is replaced, initialization must be carried out.
- When dongle unit has a malfunction of dongle unit is detected:
The security indicator lamp illuminates for about 15 minutes after ignition switch is turned to ON.
When dongle unit has a malfunction and the indicator lamp is illuminated, engine can not be started. However engine can be started only one time when security indicator lamp turns off in about 15 minutes after ignition switch is turned to ON.
- All of the originally supplied ignition key IDs have been NATS registered.
If requested by the vehicle owner, a maximum of five key IDs can be registered into the NATS components.
- The security indicator blinks when the ignition switch is in "OFF" or "ACC" position. Therefore, NATS warns outsiders that the vehicle is equipped with the anti-theft system.
- When NATS detects trouble, the security indicator lamp lights up as follows.

Condition IGN ON and	Security indicator	
	With dongle	With out dongle
NATS malfunction (except dongle unit) is detected	1. 6 time blinking 2. Staying ON after ignition switch is turned ON	Staying ON
Only malfunction of dongle unit is detected.	Stay ON for about 15 minutes after ignition switch is turned ON	—
Malfunction of NATS and engine related parts are detected	1. 6 time blinking 2. Staying ON after ignition switch is turned ON	Staying ON
Only engine related part malfunction is detected.	—	—
Just after initialization of NATS	6 time blinking	—

- NATS trouble diagnoses, system initialization and additional registration of other NATS ignition key IDs must be carried out using CONSULT-II hardware and CONSULT-II NATS software.
Regarding the procedures of NATS initialization and NATS ignition key ID registration, refer to CONSULT-II operation manual, NATS.
- **When servicing a malfunction of the NATS (indicated by lighting up of Security Indicator Lamp) or registering another NATS ignition key ID no., it may be necessary to re-register original key identification. Therefore, be sure to receive ALL KEYS from vehicle owner.**

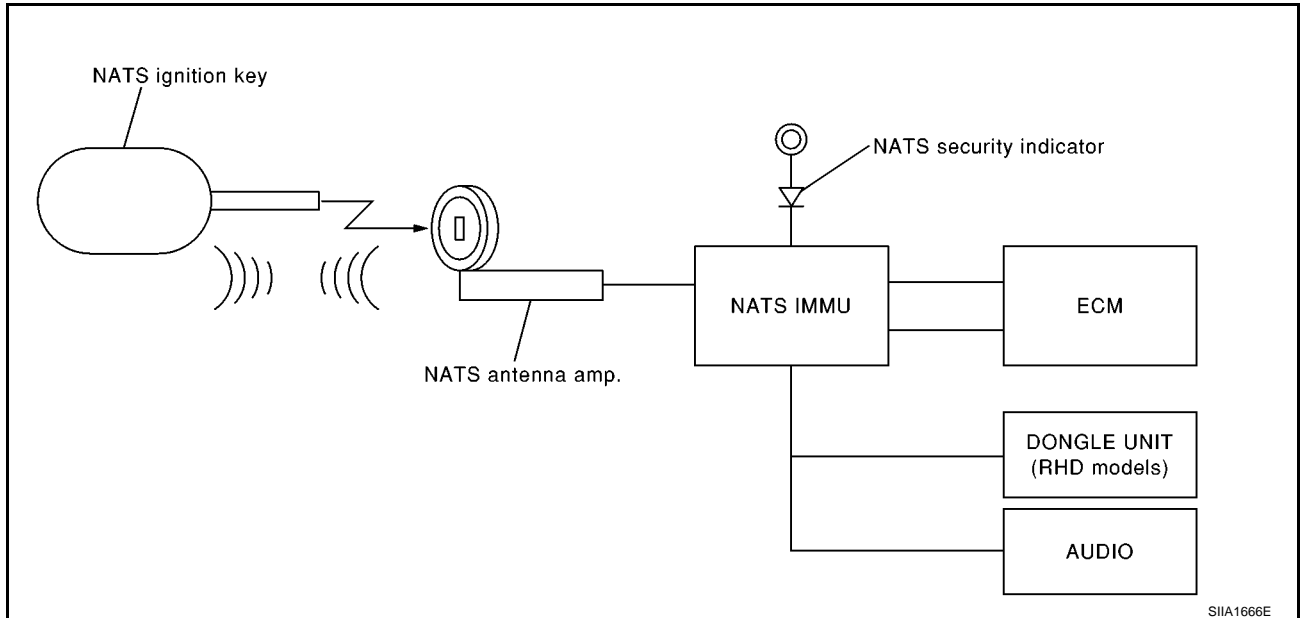
NATS (NISSAN ANTI-THEFT SYSTEM)

System Composition

EIS005J8

The immobilizer function of the NATS consists of the following:

- NATS ignition key
- NATS antenna amp located in the ignition key cylinder
- NATS IMMU (Smart entrance control unit)
- Engine control module (ECM)
- Dongle unit (RHD models)
- Security indicator located in the combination meter



NATS (NISSAN ANTI-THEFT SYSTEM)

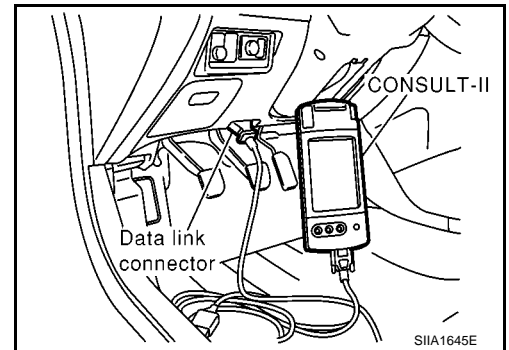
CONSULT-II

CONSULT-II INSPECTION PROCEDURE

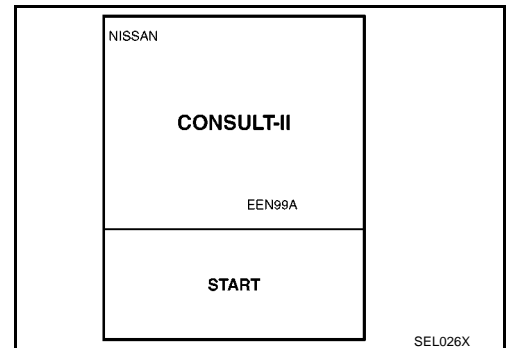
1. Turn ignition switch OFF.
2. Insert NATS program card into CONSULT-II.

Program card : NATS (AEN02C)

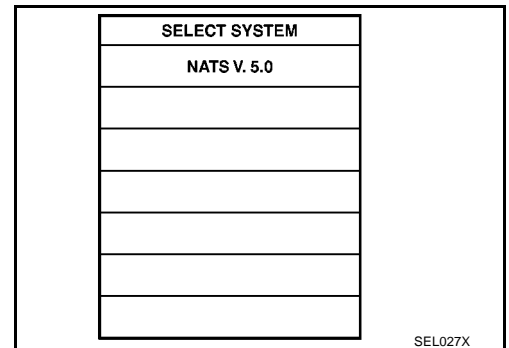
3. Connect CONSULT-II to data link connector.



4. Turn ignition switch ON.
5. Touch "START".

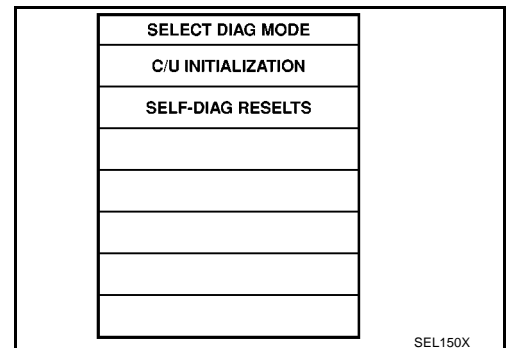


6. Select "NATS V.5.0".



7. Perform each diagnostic test mode according to each service procedure.

For further information, see the CONSULT-II Operation Manual, NATS.



CONSULT-II DIAGNOSTIC TEST MODE FUNCTION

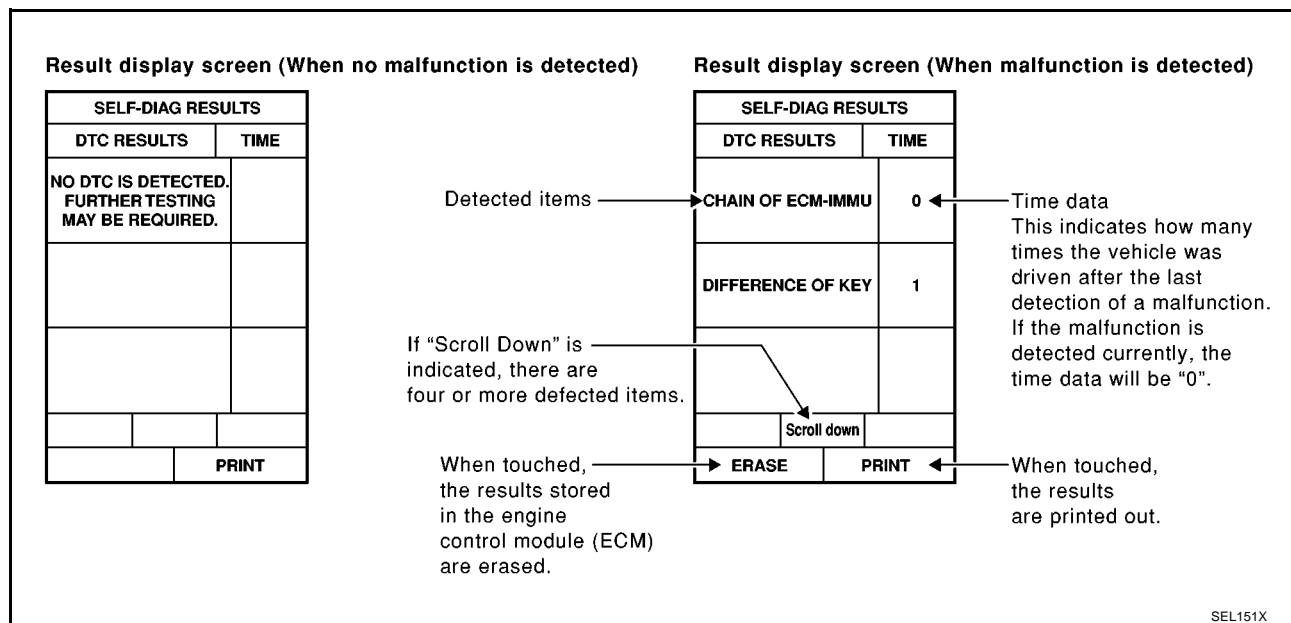
CONSULT-II DIAGNOSTIC TEST MODE	Description
C/U INITIALIZATION	When replacing any of the following components, C/U initialization and re-registration of all NATS ignition keys are necessary. [NATS ignition key/ IMMU (Smart entrance control unit)/ ECM]
SELF-DIAG RESULTS	Detected items (screen terms) are as shown in the chart. BL-156. "NATS SELF-DIAGNOSTIC RESULTS ITEM CHART"

NATS (NISSAN ANTI-THEFT SYSTEM)

NOTE:

- When any initialization is performed, all ID previously registered will be erased and all NATS ignition keys must be registered again.
- The engine cannot be started with an unregistered key. In this case, the system may show "DIFFERENCE OF KEY" or "LOCK MODE" as a self-diagnostic result on the CONSULT-II screen.
- In rare case, "CHAIN OF ECM-IMMU" might be stored as a self-diagnostic result during key registration procedure, even if the system is not malfunctioning.

HOW TO READ SELF-DIAGNOSTIC RESULTS



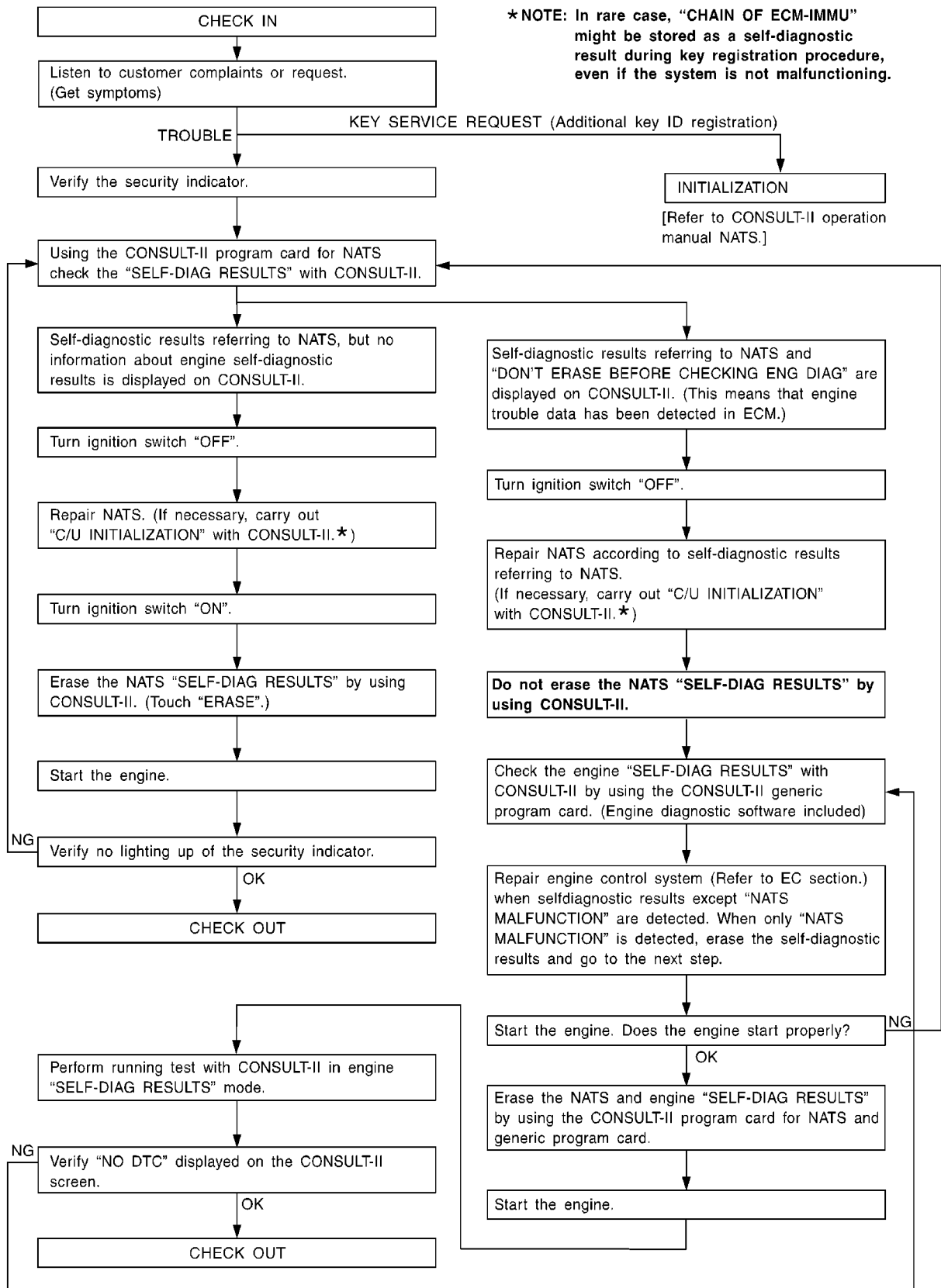
NATS SELF-DIAGNOSTIC RESULTS ITEM CHART

Detected items (NATS program card screen terms)	P No. Code (Self-diagnostic result of "ENGINE")	Malfunction is detected when.....	Reference page
ECM INT CIRC-IMMU	NATS MAL- FUNCTION P1613	The malfunction of ECM internal circuit of IMMU communication line is detected.	BL-161
CHAIN OF ECM-IMMU	NATS MAL- FUNCTION P1612	Communication impossible between ECM and IMMU (In rare case, "CHAIN OF ECM-IMMU" might be stored during key registration procedure, even if the system is not malfunctioning.)	BL-161
DIFFERENCE OF KEY	NATS MAL- FUNCTION P1615	IMMU can receive the key ID signal but the result of ID verification between key ID and IMMU is NG.	BL-163
CHAIN OF IMMU-KEY	NATS MAL- FUNCTION P1614	IMMU cannot receive the key ID signal.	BL-164
ID DISCORD, IMM-ECM	NATS MAL- FUNCTION P1611	The result of ID verification between IMMU and ECM is NG. System initialization is required.	BL-166
LOCK MODE	NATS MAL- FUNCTION P1610	When the starting operation is carried out five or more times consecutively under the following conditions, NATS will shift the mode to one which prevents the engine from being started. <ul style="list-style-type: none"> ● Unregistered ignition key is used. ● IMMU or ECM's malfunctioning. 	BL-168
DON'T ERASE BEFORE CHECK- ING ENG DIAG	—	All engine trouble codes except NATS trouble code has been detected in ECM.	BL-157

NATS (NISSAN ANTI-THEFT SYSTEM)

Work Flow

EIS005JB



SEL729WE

NATS (NISSAN ANTI-THEFT SYSTEM)

Trouble Diagnoses

EIS005JC

First perform the "SELF-DIAG RESULTS" in "SMART ENTRANCE" with CONSULT-II, when perform the each trouble diagnosis. Refer to [BCS-13, "CONSULT-II INSPECTION PROCEDURE"](#)

NATS (NISSAN ANTI-THEFT SYSTEM)

SYMPTOM MATRIX CHART 1

Self-diagnosis related item

SYMPTOM	Displayed "SELF-DIAG RESULTS" on CONSULT-II screen.	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON SYSTEM DIAGRAM
<ul style="list-style-type: none"> Security indicator lighting up* Engine cannot be started 	ECM INT CIRC-IMMU	PROCEDURE 1 (BL-161)	ECM	B
	CHAIN OF ECM-IMMU	PROCEDURE 2 (BL-161)	In rare case, "CHAIN OF ECM-IMMU" might be stored during key registration procedure, even if the system is not malfunctioning.	—
			Open circuit in battery voltage line of IMMU circuit	C1
			Open circuit in ignition line of IMMU circuit	C2
			Open circuit in ground line of IMMU circuit	C3
			Open circuit in communication line between IMMU and ECM	C4
			Short circuit between IMMU and ECM communication line and battery voltage line	C4
			Short circuit between IMMU and ECM communication line and ground line	C4
			ECM	B
			IMMU	A
	DIFFERENCE OF KEY	PROCEDURE 3 (BL-163)	Unregistered key	D
			IMMU	A

NATS (NISSAN ANTI-THEFT SYSTEM)

SYMPTOM	Displayed "SELF-DIAG RESULTS" on CONSULT-II screen.	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON SYSTEM DIAGRAM
<ul style="list-style-type: none"> Security indicator lighting up* Engine cannot be started 	CHAIN OF IMMU-KEY	PROCEDURE 4 (BL-164)	Malfunction of key ID chip	E5
			Communication line between ANT/ AMP and IMMU:	E1
			Open circuit or short circuit of battery voltage line or ground line	E2
			Open circuit in power source line of ANT/ AMP circuit	E3
			Open circuit in ground line of ANT/ AMP circuit	E4
			Antenna amp.	E6
			Dongle unit	G
			IMMU	A
	ID DISCORD, IMM-ECM	PROCEDURE 5 (BL-166)	System initialization has not yet been completed.	F
			ECM	B
	LOCK MODE	PROCEDURE 7 (BL-168)	LOCK MODE	D
Security indicator lighting up*	DON'T ERASE BEFORE CHECKING ENG DIAG	WORK FLOW (BL-157)	Engine trouble data and NATS trouble data have been detected in ECM	—

*: When NATS detects trouble, the security indicator lights up while ignition key is in the "ON" position.

SYMPTOM MATRIX CHART 2

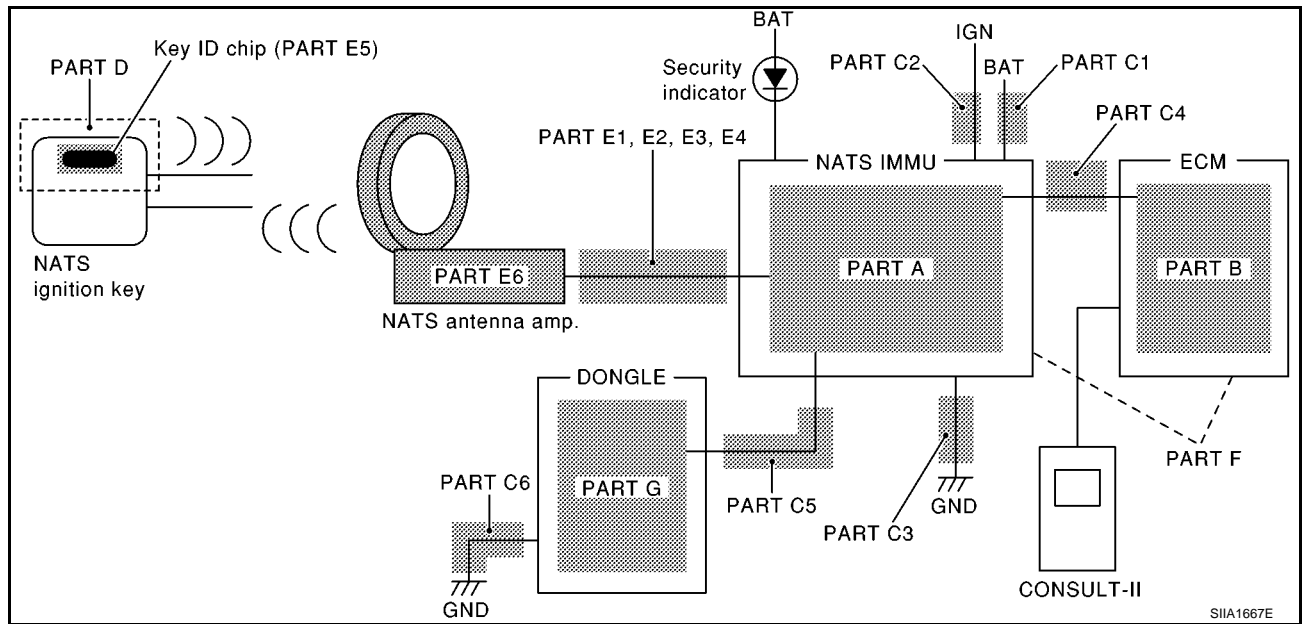
Non self-diagnosis related item

SYMPTOM	DIAGNOSTIC PROCEDURE (Reference page)	SYSTEM (Malfunctioning part or mode)	REFERENCE PART NO. OF ILLUSTRATION ON SYSTEM DIAGRAM
Security ind. does not light up.	PROCEDURE 6 (BL-166)	Security ind.	—
		Open circuit between Fuse and IMM U	—
		Continuation of initialization mode	—
		IMMU	A
Security ind. does not blink just after initialization even if the vehicle is equipped with dongle unit.	PROCEDURE 8 (RHD models only: BL-169)	NATS might be initialized without connecting dongle unit properly.	—
Open circuit in ground line of dongle unit circuit		C6	
Open or short circuit in communication line between IMM U and dongle unit		C5	
Dongle unit		G	
Security ind. dose not blink just after ignition switch is turned to ON. Engine can not be started*	PROCEDURE 9 (SC-20)	Open or short circuit starter motor between smart entrance control unit	—

*: CONSULT-II Self-diagnostic results display screen "no malfunction is detected".

NATS (NISSAN ANTI-THEFT SYSTEM)

DIAGNOSTIC SYSTEM DIAGRAM



Diagnostic Procedure 1

Self-diagnostic results:

"ECM INT CIRC-IMMU" displayed on CONSULT-II screen

1. Confirm SELF-DIAGNOSTIC RESULTS "ECM INT CIRC-IMMU" displayed on CONSULT-II screen.
2. Replace ECM.
Ref. part No. B
3. Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II operation manual NATS".

SELF-DIAG RESULTS	
DTC RESULTS	TIME
ECM INT CIRC-IMMU	0

Diagnostic Procedure 2

Self-diagnostic results:

"CHAIN OF ECM-IMMU" displayed on CONSULT-II screen

1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "CHAIN OF ECM-IMMU" displayed on CONSULT-II screen.

NOTE:

In rare case, "CHAIN OF ECM-IMMU" might be stored during key registration procedure, even if the system is not malfunctioning.

Is CONSULT-II screen displayed as above?

- Yes >> GO TO 2
No >> GO TO [BL-159, "SYMPTOM MATRIX CHART 1"](#).

SELF DIAGNOSIS	
DTC RESULTS	TIME
CHAIN OF ECM-IMMU	0

NATS (NISSAN ANTI-THEFT SYSTEM)

2. CHECK POWER SUPPLY CIRCUIT FOR IMMU

1. Turn ignition switch OFF.
2. Disconnect IMMU connector.
3. Check voltage between IMMU (Smart entrance control unit) harness connector M43 terminal 56 and ground CONSULT-II or tester.

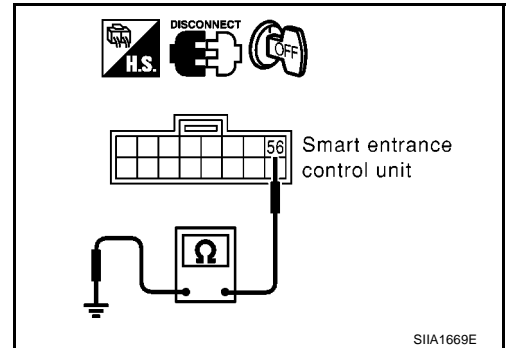
56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 3

NG >> Check the following

- 10A fuse [No. 12, located in the fuse block (J/B)]
 - Harness for open or short between fuse and IMMU connector
- Ref. Part No. C1**



3. CHECK IGN SW. ON SIGNAL

1. Turn ignition switch ON.
2. Check voltage between IMMU (Smart entrance control unit) harness connector M42 terminal 29 and ground with CONSULT-II or tester.

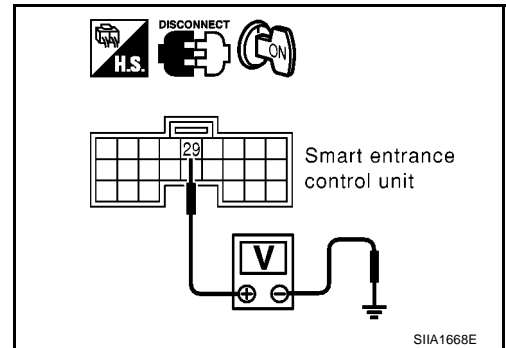
29 (Y/G) - Ground : Battery voltage

OK or NG

OK >> GO TO 4

NG >> Check the following

- 10A fuse [No. 10, located in the fuse block (J/B)]
 - Harness for open or short between fuse and IMMU connector
- Ref. part No. C2**



4. CHECK GROUND CIRCUIT FOR IMMU

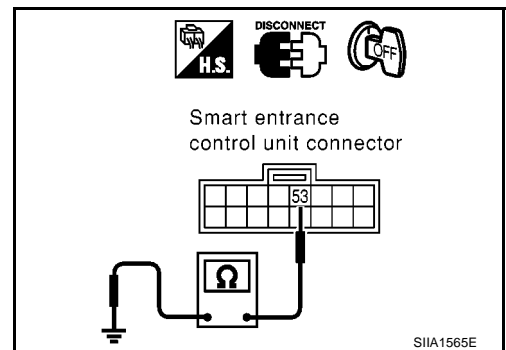
1. Turn ignition OFF.
2. Check continuity between IMMU (Smart entrance control unit) harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

OK >> GO TO 5

NG >> Repair harness. **Ref. part No. C3**



NATS (NISSAN ANTI-THEFT SYSTEM)

5. REPLACE IMMU (SMART ENTRANCE CONTROL UNIT)

1. Replace IMMU (Smart entrance control unit) **Ref. part No. A**
2. Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II operation manual NATS".

Does the engine start?

- Yes >> IMMU (Smart entrance control unit) is malfunctioning.
- No >> ● ECM is malfunctioning.
- Replace ECM. **Ref. part No. B**
 - Perform initialization with CONSULT-II
 - For initialization, refer to "CONSULT-II operation manual NATS"

Diagnostic Procedure 3

EIS005JF

Self-diagnostic results:

"DIFFERENCE OF KEY" displayed on CONSULT-II screen

1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "DIFFERENCE OF KEY" displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

- Yes >> GO TO 2
- No >> GO TO [BL-159, "SYMPTOM MATRIX CHART 1"](#).

SELF DIAG RESULTS	
DTC RESULTS	TIME
DIFFERENCE OF KEY	0

SEL367X

2. PERFORM INITIALIZATION WITH CONSULT-II

Perform initialization with CONSULT-II. Re-register all NATS ignition key IDs.

For initialization and registration of NATS ignition key IDs, refer to "CONSULT-II operation manual NATS".

NOTE:

If the initialization is not completed or fails, CONSULT-II shows above message on the screen.

Can the system be initialized and can the engine be started with re-registered NATS ignition key?

- Yes >> ● Ignition key ID was unregistered. **Ref. part No. D**
- No >> ● IMMU (Smart entrance control unit) is malfunctioning.
- Replace IMMU (Smart entrance control unit). **Ref. part No. A**
 - Perform initialization with CONSULT-II.
 - For initialization, refer to "CONSULT-II operation manual NATS".

IMMU INITIALIZATION
INITIALIZATION FAIL
THEN IGN KEY SW 'OFF' AND 'ON', AFTER CONFIRMING SELF-DIAG AND PASSWORD, PERFORM C/U INITIALIZATION AGAIN.

SEL297W

NATS (NISSAN ANTI-THEFT SYSTEM)

Diagnostic Procedure 4

EIS005JG

Self-diagnostic results:

“CHAIN OF IMMU-KEY” displayed on CONSULT-II screen

1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS “CHAIN OF IMMU-KEY” displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

Yes >> GO TO 2

No >> GO TO [BL-159, "SYMPTOM MATRIX CHART 1"](#).

SELF-DIAG RESULTS	
DTC RESULTS	TIME
CHAIN OF IMMU-KEY	0

SEL957W

2. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to [BL-170, "How to Replace NATS Antenna Amp"](#).

OK or NG

OK >> GO TO 3

NG >> Reinstall NATS antenna amp. correctly.

3. CHECK NATS IGNITION KEY ID CHIP

Start engine with another registered NATS ignition key.

Does the engine start?

Yes >> ● Ignition key ID chip is malfunctioning.

● Replace the ignition key.

● **Ref. part No. E5**

● Perform initialization with CONSULT-II.

● For initialization, refer to “CONSULT-II Operation Manual NATS”.

No >> GO TO 4.

4. CHECK POWER SUPPLY FOR NATS ANTENNA AMP.

Check voltage between NATS antenna amp. harness connector M34 terminal 1(G) and ground with analogue tester.

Before turning ignition switch “ON”

Voltage: 0V

Just after turning ignition switch “ON”

: Pointer of tester should move.

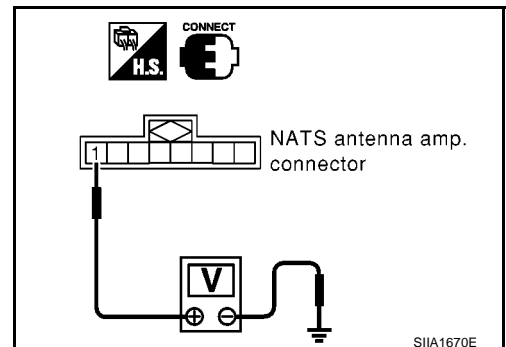
OK or NG

OK >> GO TO 5.

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

NOTE:

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to “CONSULT-II operation manual NATS”.



NATS (NISSAN ANTI-THEFT SYSTEM)

5. CHECK NATS ANTENNA AMP. SIGNAL LINE- 1

Check voltage between NATS antenna amp. harness connector M34 terminal 3(G/W) and ground with analogue tester.

Before turning ignition switch "ON"

Voltage: 0V

Just after turning ignition switch "ON"

: Pointer of tester should move.

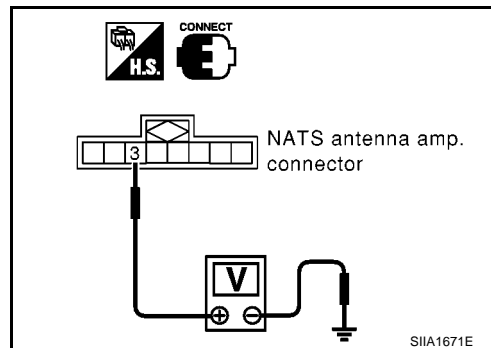
OK or NG

OK >> GO TO 6.

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

NOTE:

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to "CONSULT-II operation manual NATS".



6. CHECK NATS ANTENNA AMP. SIGNAL LINE- 2

Check voltage between NATS antenna amp. harness connector M34 terminal 7(Y/G) and ground with analogue tester.

Before turning ignition switch "ON"

Voltage: 0V

Just after turning ignition switch "ON"

: Pointer of tester should move.

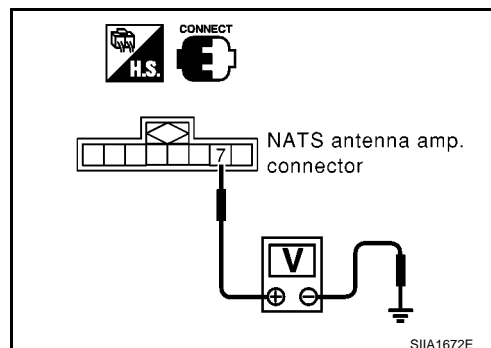
OK or NG

OK >> GO TO 7.

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

NOTE:

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to "CONSULT-II operation manual NATS".



7. CHECK NATS ANTENNA AMP. GROUND LINE CIRCUIT

1. Turn ignition switch "OFF"
2. Disconnect NATS antenna amp connector.
3. Check continuity between NATS antenna amp. harness connector M34 terminal 5 and ground.

5 (G/OR) - Ground : Continuity should exist.

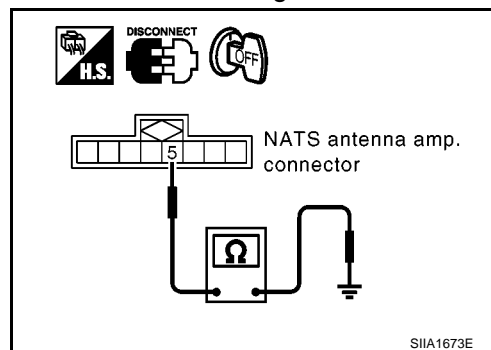
OK or NG

OK >> ● NATS antenna amp. malfunctioning.
Ref. part No. E6

NG >> ● Check harness for open or short between NATS antenna amp and IMMU (Smart entrance control unit).

NOTE:

If harness is OK, replace IMMU, perform initialization with CONSULT-II. For initialization, refer to "CONSULT-II operation manual NATS".



NATS (NISSAN ANTI-THEFT SYSTEM)

Diagnostic Procedure 5

EIS005JH

Self-diagnostic results:

"ID DISCORD, IMM-ECM" displayed on CONSULT-II screen

1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS "ID DISCORD, IMM-ECM" displayed on CONSULT-II screen.

NOTE:

"ID DISCORD IMM-ECM":

Registered ID of IMM is in discord with that of ECM.

Is CONSULT-II screen displayed as above?

Yes >> GO TO 2.

No >> GO TO [BL-159, "SYMPTOM MATRIX CHART 1"](#) .

SELF-DIAG RESULTS	
DTC RESULTS	TIME
ID DISCORD, IMM-ECM	0

SEL958W

2. PERFORM INITIALIZATION WITH CONSULT-II

Perform initialization with CONSULT-II. Re-register all NATS ignition key IDs.

For initialization, refer to "CONSULT-II operation manual NATS".

NOTE:

If the initialization is not completed or fails, CONSULT-II shows above message on the screen.

Can the system be initialized?

Yes >> ● Start engine. (END)

- (System initialization had not been completed. **Ref. part No. B**)

No >> ● ECM is malfunctioning.

- Replace ECM. **Ref. part No. B**
- Perform initialization with CONSULT-II.
- For initialization, refer to "CONSULT-II operation manual NATS".

IMMU INITIALIZATION
INITIALIZATION FAIL
THEN IGN KEY SW 'OFF' AND 'ON', AFTER CONFIRMING SELF-DIAG AND PASSWORD, PERFORM C/U INITIALIZATION AGAIN.

SEL297W

Diagnostic Procedure 6

EIS005JI

"SECURITY INDICATOR LAMP DOES NOT LIGHT UP"

1. CHECK FUSE

- Check 10A fuse [No.12 and No.30, located in the fuse block (J/B)]
- Check 10A fuse [No. 30, located in the fuse block (J/B)]

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

NATS (NISSAN ANTI-THEFT SYSTEM)

2. CHECK SECURITY INDICATOR LAMP

1. Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II Operation Manual NATS".
2. Turn ignition switch OFF.
3. Start engine and turn ignition switch OFF.
4. Check the security indicator lamp lighting.

Security indicator lamp should be light up?

Yes >> Inspection END.
No >> GO TO 3

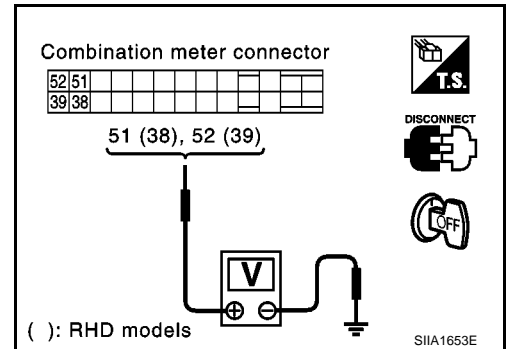
3. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M37 terminal 38, 39 (RHD models) or 51, 52 (LHD models) and ground.

38 - Ground : Battery voltage
39 - Ground : Battery voltage
51 - Ground : Battery voltage
52 - Ground : Battery voltage

OK or NG

OK >> GO TO 4
NG >> Check harness for open or short between fuse and security indicator lamp.



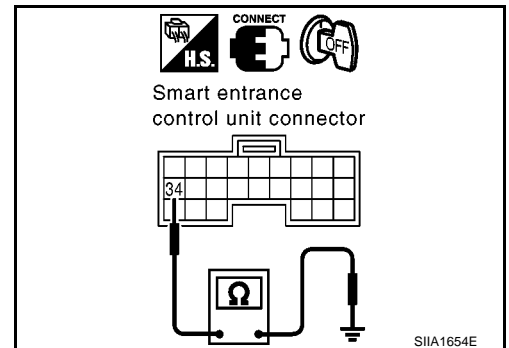
4. CHECK SMART ENTRANCE CONTROL UNIT FUNCTION

Check continuity between smart entrance control unit harness connector M42 terminal 34 and ground.

34 (L/Y) - Ground : Continuity should exist intermittently.

OK or NG

- OK >> Check harness for open or short between smart entrance control unit and combination meter.
- NG >> IMMU (Smart entrance control unit) is malfunctioning.
- Replace smart entrance control unit
Ref. part No. A
 - Perform initialization with CONSULT-II
 - For initialization, refer to "CONSULT-II operation manual NATS"



NATS (NISSAN ANTI-THEFT SYSTEM)

Diagnostic Procedure 7

EIS005JJ

Self-diagnostic results:

“LOCK MODE” displayed on CONSULT-II screen

1. CONFIRM SELF-DIAGNOSTIC RESULTS

Confirm SELF-DIAGNOSTIC RESULTS “LOCK MODE” is displayed on CONSULT-II screen.

Is CONSULT-II screen displayed as above?

Yes >> GO TO 2

No >> GO TO [BL-159, "SYMPTOM MATRIX CHART 1"](#).

SELF-DIAG RESULTS	
DTC RESULTS	TIME
LOCK MODE	0

SEL960W

2. ESCAPE FROM LOCK MODE

1. Turn ignition switch OFF.
2. Turn ignition switch ON with registered key. (Do not start engine.) Wait 5 seconds.
3. Return the key to OFF position.
4. Repeat steps 2 and 3 twice (total of three cycles).
5. Start the engine.

Does engine start?

Yes >> ● System is OK.
● (Now system is escaped from “LOCK MODE”).

No >> GO TO 3

3. PERFORM INITIALIZATION WITH CONSULT-II

Perform initialization with CONSULT-II.

For initialization, refer to “CONSULT-II operation manual NATS”.

NOTE:

If the initialization is not completed or fails, CONSULT-II shows the above message on the screen.

Can the system be initialized?

Yes >> System is OK.

No >> GO TO 4

IMMU INITIALIZATION
INITIALIZATION FAIL
THEN IGN KEY SW 'OFF' AND 'ON', AFTER CONFIRMING SELF-DIAG AND PASSWORD, PERFORM C/U INITIALIZATION AGAIN.

SEL297W

NATS (NISSAN ANTI-THEFT SYSTEM)

4. PERFORM INITIALIZATION WITH CONSULT-II AGAIN

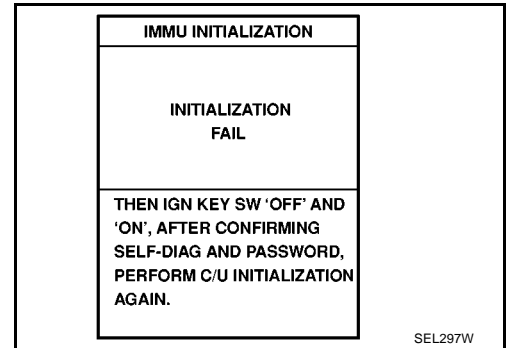
1. Replace IMMU (Smart entrance control unit).
2. Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II operation manual NATS".

NOTE:

If the initialization is not completed or fails, CONSULT-II shows the above message on the screen.

Can the system be initialized?

- Yes >> System is OK. (IMMU is malfunctioning. **Ref. part No. A**)
- No >> ● ECM is malfunctioning.
Replace ECM. **Ref. part No. B**
Perform initialization with CONSULT-II.
For initialization, refer to "CONSULT-II operation manual NATS".



Diagnostic Procedure 8

EIS005JK

1. CHECK HARNESS CONNECTOR CONNECTION

Perform initialization with CONSULT-II

Check harness connector connection between Dongle unit harness connector M93 and IMMU (Smart entrance control unit) harness connector M41.

Then initialize NATS. For the initialization operation, refer to "CONSULT-II operation manual NATS"

Does the security indicator blink just after initialization?

- Yes >> System is OK. (The malfunction is caused by improper connector connection.)
- No >> GO TO 2

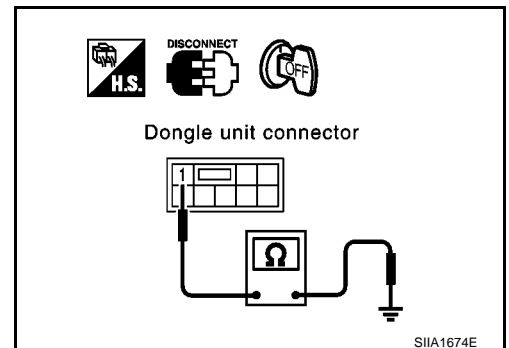
2. CHECK GROUND CIRCUIT FOR DONGLE UNIT

1. Turn ignition switch OFF.
2. Disconnect dongle unit harness connector.
3. Check continuity between dongle unit harness connector M93 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3
- NG >> Repair or replace harness.



NATS (NISSAN ANTI-THEFT SYSTEM)

3. CHECK INTERFACE CIRCUIT

1. Disconnect IMMU (Smart entrance control unit) harness connector.
2. Check continuity between IMMU (Smart entrance control unit) harness connector M41 terminal 9 and dongle unit harness connector M93 terminal 7.

9 (Y) - 7 (Y) : Continuity should exist.

3. Check continuity between (Smart entrance control unit) harness connector M41 terminal 9 and ground.

9 (Y) - Ground : Continuity should not exist.

OK or NG

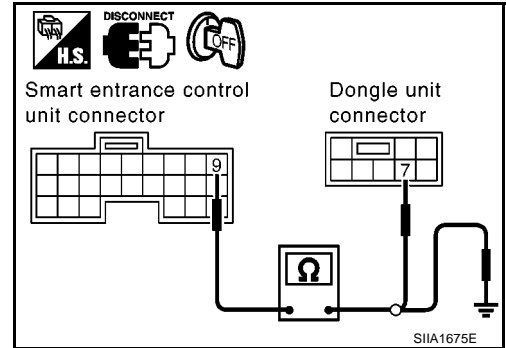
OK >> Dongle unit is malfunctioning.

1. Replace dongle unit.

2. Perform initialization with CONSULT-II.

For initialization procedure, refer to "CONSULT-II Operation Manual NATS".

NG >> Repair harness.



How to Replace NATS Antenna Amp

EIS005JM

NOTE:

- If NATS antenna amp. is not installed correctly, NATS system will not operate properly and SELF-DIAG RESULTS on CONSULT-II screen will show "LOCK MODE" or "CHAIN OF IMMU- KEY".
- Initialization is not necessary only when NATS antenna amp. is replaced with a new one.

