

SECTION

WW

WIPER, WASHER & HORN

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# PRECAUTIONS

## PRECAUTIONS

PFP:00011

### Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS0079K

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

### Wiring Diagrams and Trouble Diagnosis

EKS0079L

When you read wiring diagrams, refer to the following:

- Refer to [GI-14, "How to Read Wiring Diagrams"](#) in GI section
- Refer to [PG-2, "POWER SUPPLY ROUTING"](#) for power distribution circuit in PG section

When you perform trouble diagnosis, refer to the following:

- Refer to [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section
- Refer to [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section

WW

## FRONT WIPER AND WASHER SYSTEM

PFP:28810

### System Description WIPER OPERATION

EKS0032N

The wiper switch is controlled by a lever built into the combination switch.  
There are three wiper switch positions:

- LO speed
- HI speed
- INT (Intermittent)

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

- through 20A fuse [No. 6, located in fuse block (J/B)]
- to front wiper motor terminal 2, and
- to front wiper and washer switch terminal 15.

Ground is supplied

- to front wiper and washer switch terminal 17
- through grounds E24 and E50.

### Low and High Speed Wiper Operation

When the wiper switch is placed in the LO position, ground is supplied

- to front wiper motor terminal 3
- through front wiper and washer switch terminal 14,
- through front wiper and washer switch terminal 17
- through grounds E24 and E50.

With power and ground supplied, the wiper motor operates at low speed.

When the wiper switch is placed in the HI position, ground is supplied

- to front wiper motor terminal 5
- through front wiper and washer switch terminal 16
- through front wiper and washer switch terminal 17
- through grounds E24 and E50.

With power and ground supplied, the wiper motor operates at high speed.

### Auto Stop Operation

With wiper switch turned OFF, wiper motor will continue to operate until wiper arms reach windshield base.

When wiper arms are not located at base of windshield with wiper switch OFF, ground is provided

- to front wiper motor terminal 3
- through front wiper and washer switch terminal 14, in order to continue wiper motor operation at low speed.

Ground is supplied

- to front wiper and washer switch terminal 13
- through front wiper motor terminal 4
- through front wiper motor terminal 1
- through grounds E24 and E50.

When wiper arms reach base of windshield, front wiper motor terminals 2 and 4 are connected instead of terminals 1 and 4. Wiper motor will then stop wiper arms at the STOP position.

### Intermittent Operation

The front wiper motor operates the wiper arms one time at low speed at a set interval of approximately 1 to 13 seconds. This feature is controlled by the wiper amplifier (INT SW) combined with front wiper and washer switch.

When the wiper switch is placed in the INT position, ground is supplied to wiper amplifier.

The desired interval time is input to wiper amplifier (INT VR) from wiper volume switch combined with front wiper and washer switch.

Then intermittent ground is supplied

- to front wiper motor terminal 3

## FRONT WIPER AND WASHER SYSTEM

- through front wiper and washer switch terminal 14
- through wiper amp.

The wiper motor operates at low speed at the desired interval.

### WASHER OPERATION

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

- through 20A fuse [No. 6, located in fuse block (J/B)]
- to front washer motor terminal 1.

Ground is supplied

- to front wiper and washer switch terminal 17
- through grounds E24 and E50.

When the washer switch is pulled to the ON position, ground is supplied

- to front washer motor terminal 2
- through front wiper and washer switch terminal 18
- through front wiper and washer switch terminal 17, and
- through grounds E24 and E50.

With power and ground supplied, the washer motor operates.

When the washer switch is pulled to the ON position for one second or more, the wiper motor operates at low speed for approximately 3 seconds to clean windshield. This feature is controlled by the wiper amplifier in the same manner as the intermittent operation.

A

B

C

D

E

F

G

H

I

J

WW

L

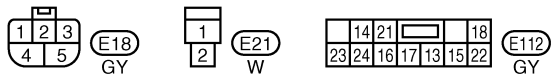
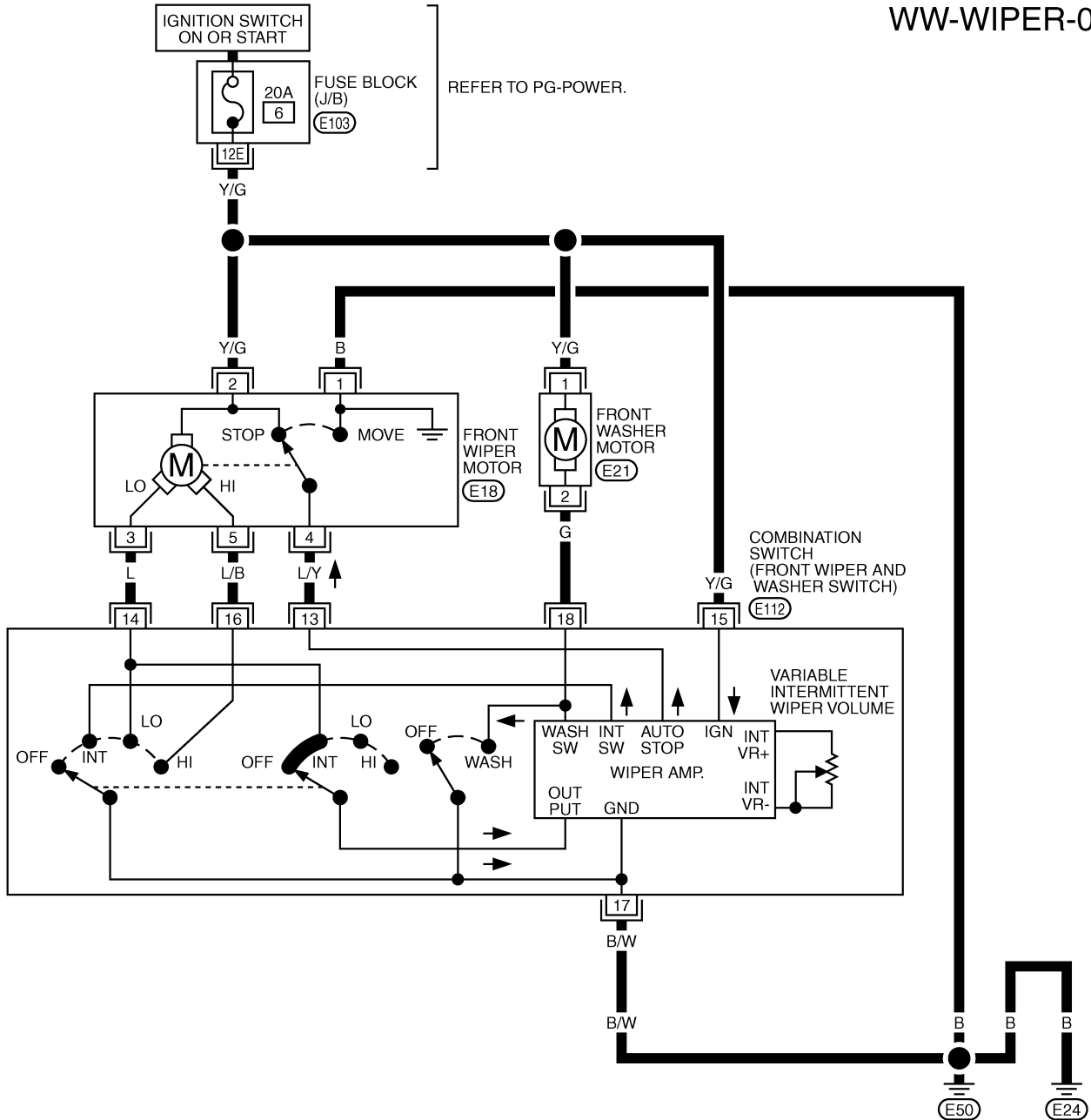
M

# FRONT WIPER AND WASHER SYSTEM

## Wiring Diagram — WIPER —

EKS0032.0

WW-WIPER-01



REFER TO THE FOLLOWING.  
(E103) -FUSE BLOCK-JUNCTION  
BOX (J/B)

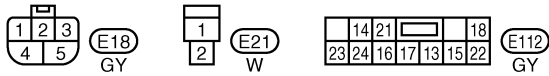
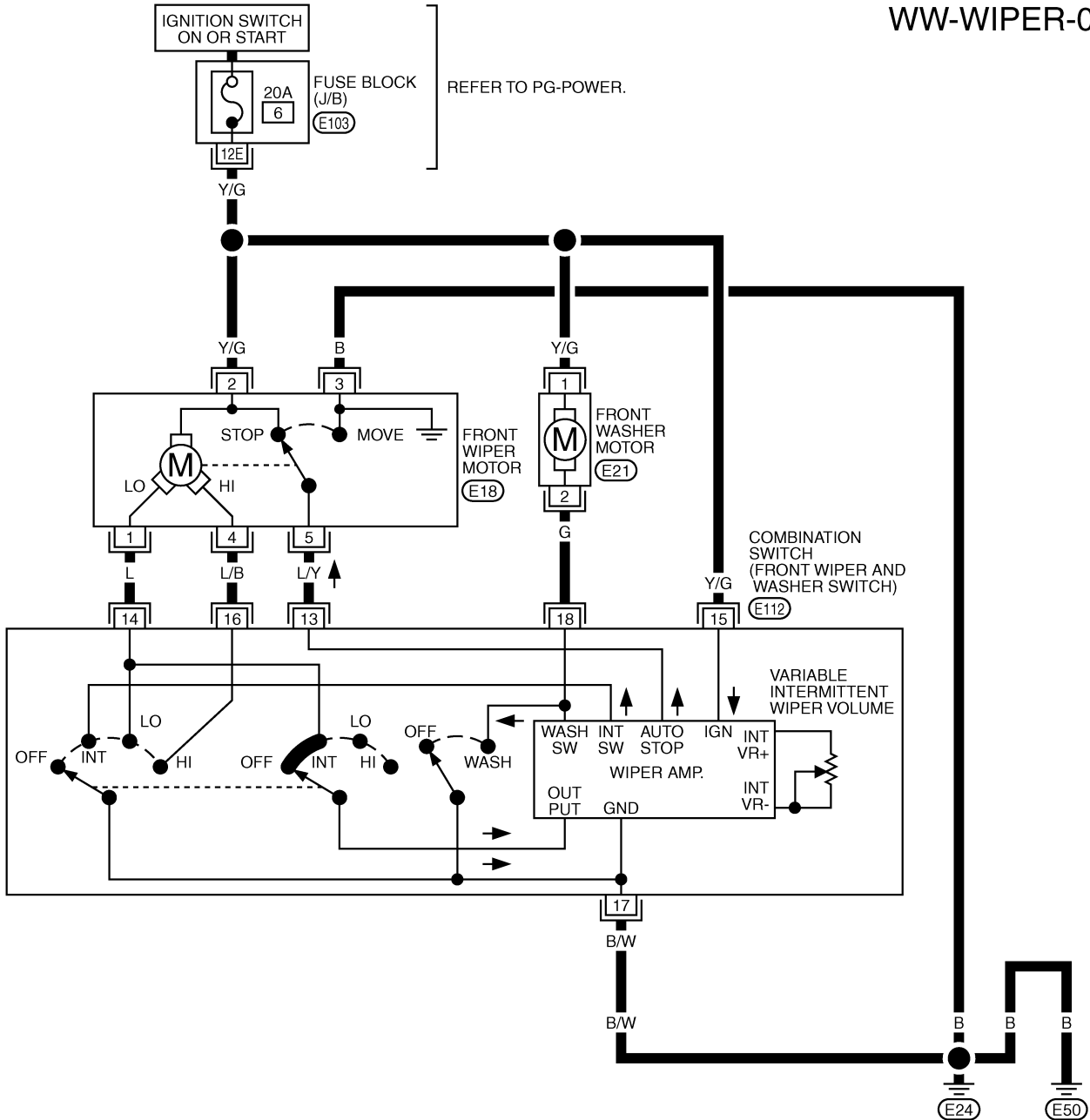
TKWA1554E

# FRONT WIPER AND WASHER SYSTEM

## Wiring Diagram — WIPER —/LHD models

EKS00ES7

WW-WIPER-02



REFER TO THE FOLLOWING.  
(E103) -FUSE BLOCK-JUNCTION BOX (J/B)

TKWA1555E

# FRONT WIPER AND WASHER SYSTEM

## Terminal and Reference Values for Combination Switch

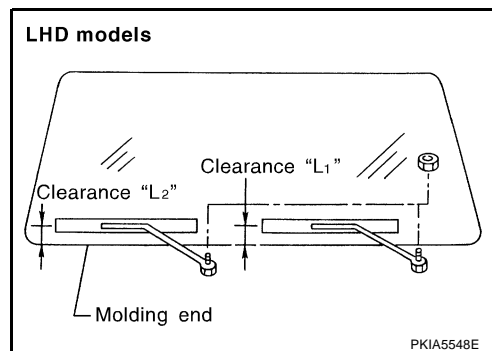
EKS0032P

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Condition or operation	
13	L/Y	Wiper auto Stop signal	ON	Wiper is moving	Approx. 0V
				Wiper while the vehicle is stopped	Battery voltage
14	L	Wiper motor Operation signal (LO)	ON	Wiper switch OFF	Battery voltage
				LO	Approx. 0V
15	Y/G	Ignition switch (ON)	ON	—	Battery voltage
16	L/B	Wiper motor Operation signal (HI)	ON	Wiper switch OFF	Battery voltage
				HI	Approx. 0V
17	B/W	Ground	OFF	—	—
18	G	Washer switch signal	ON	Wiper switch WASH	Approx. 0V
				OFF	Battery voltage

## Removal and Installation of Front Wiper Arms, Adjustment for Wiper Arms Stop Location

EKS0032Q

1. Prior to front wiper arm installation, turn on wiper switch to operate front wiper motor and then turn it "OFF" (auto stop).
2. Lift the blade up and then set it down onto glass surface to set the blade center to clearance "L1" & "L2" immediately before tightening nut.
3. Eject washer fluid. Turn on front wiper switch to operate front wiper motor and then turn it "OFF".



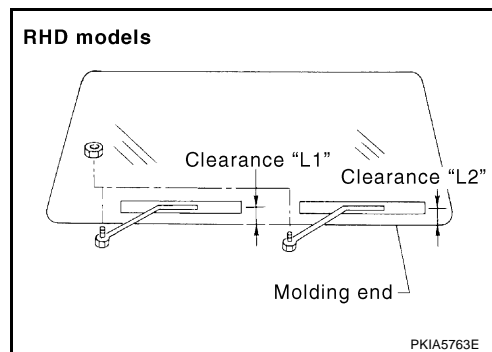
4. Ensure that front wiper blades stop within clearance "L1" & "L2".

**Clearance "L1" : 49.2 - 64.2 mm (1.937 - 2.528 in)**

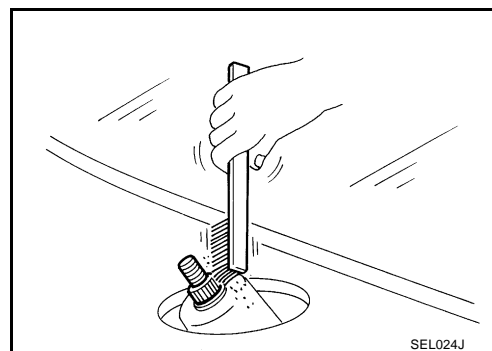
**Clearance "L2" : 39.3 - 54.3 mm (1.547 - 2.138 in)**

- Tighten front wiper arm nuts to specified torque.

**Front wiper arm nut** : **23.6 N·m (2.4 kg-m, 17 ft-lb)**



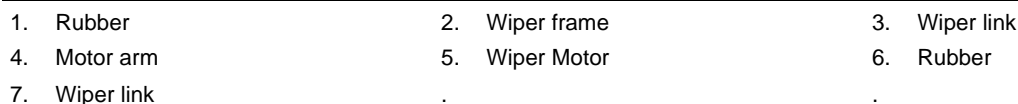
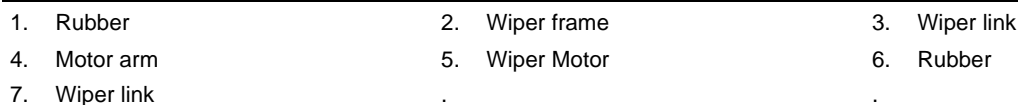
- Before reinstalling front wiper arm, clean up the pivot area as illustrated. This will reduce possibility of front wiper arm looseness.





A  
B  
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E  
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G  
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J  
K  
L  
M

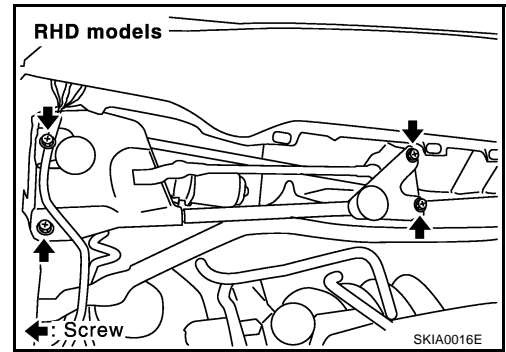
## EKS0032R



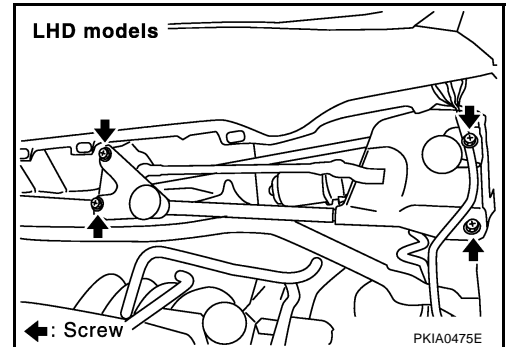
1. Operate wiper motor, and stop it at the upper limit position.
2. Remove front wiper arm from the vehicle.
3. Remove the cowl top cover. Refer to [EI-20, "COWL TOP"](#).

# FRONT WIPER AND WASHER SYSTEM

4. Remove 4 screws and remove front wiper drive assembly from the vehicle.
5. Disconnect front wiper motor connector.
6. Remove wiper link from wiper frame.
7. Remove motor arm from wiper motor.

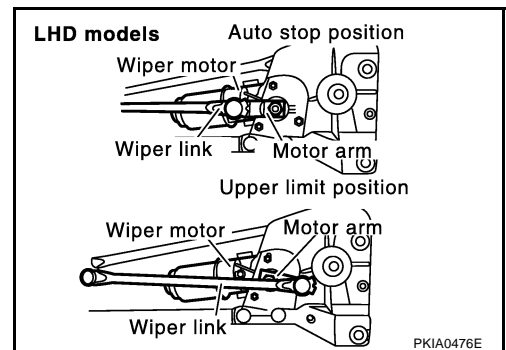
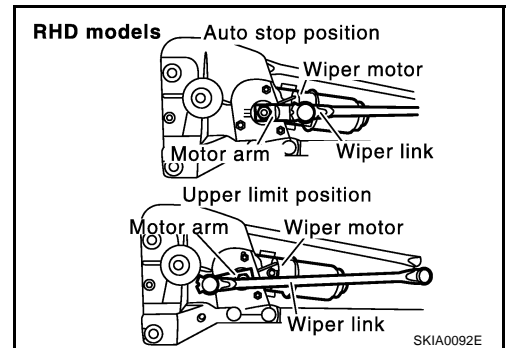


8. Remove front wiper motor from wiper frame.



## INSTALLATION

1. Connect front wiper motor to connector. Turn the front wiper switch ON to operate front wiper motor, then turn the front wiper switch OFF (auto stop).
2. Disconnect wiper motor connector.
3. Install front wiper motor to the wiper frame.
4. Install front wiper drive assembly to the vehicle.
5. Install wiper link to the wiper motor arm.
6. Connect front wiper motor connector. Turn the front wiper switch ON to operate the front wiper motor, then turn wiper switch OFF (auto stop).
7. Rotate motor arm to the upper limit position.
8. Install front wiper drive assembly to the vehicle.
9. Turn the front wiper switch ON to operate the Wiper motor, then turn front wiper switch OFF (auto stop).
10. Install cowl top cover. Refer to [EI-20, "COWL TOP"](#).
11. Install wiper arm to the vehicle.



**Motor arm mounting nut** : 17.7 N·m (1.8 kg-m, 13 ft-lb)

**Wiper motor mounting screw** : 4.5 N·m (0.46 kg-m, 40 in-lb)

**Front wiper drive assembly mounting bolt** : 7.7 N·m (0.79 kg-m, 68 in-lb)

## CAUTION:

- Never drop the wiper motor or cause it to contact other parts.
- Check the grease conditions of the motor arm and wiper link joint (at retainer). Apply grease if necessary.

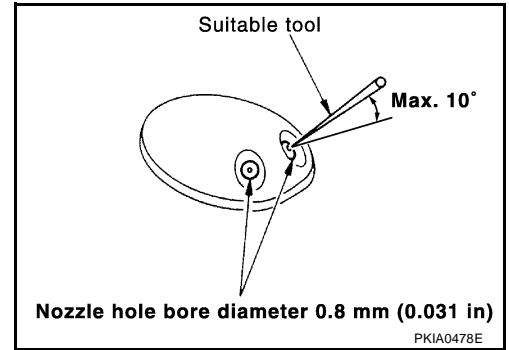
# FRONT WIPER AND WASHER SYSTEM

## Front Washer Nozzle Adjustment

EKS0032S

Adjust front washer nozzle with suitable tool as shown in the figure.

**Adjustable range :  $\pm 10^\circ$  (In any direction)**

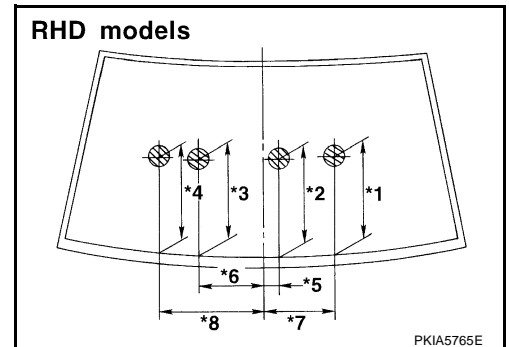
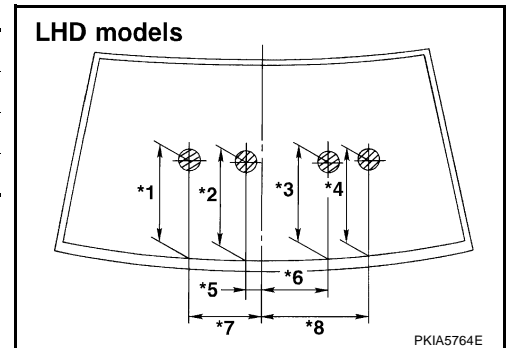


Unit: mm (in)

*1	395 (15.55)	*5	100 (3.94)
*2	395 (15.55)	*6	100 (3.94)
*3	395 (15.55)	*7	400 (15.88)
*4	395 (15.55)	*8	400 (15.88)

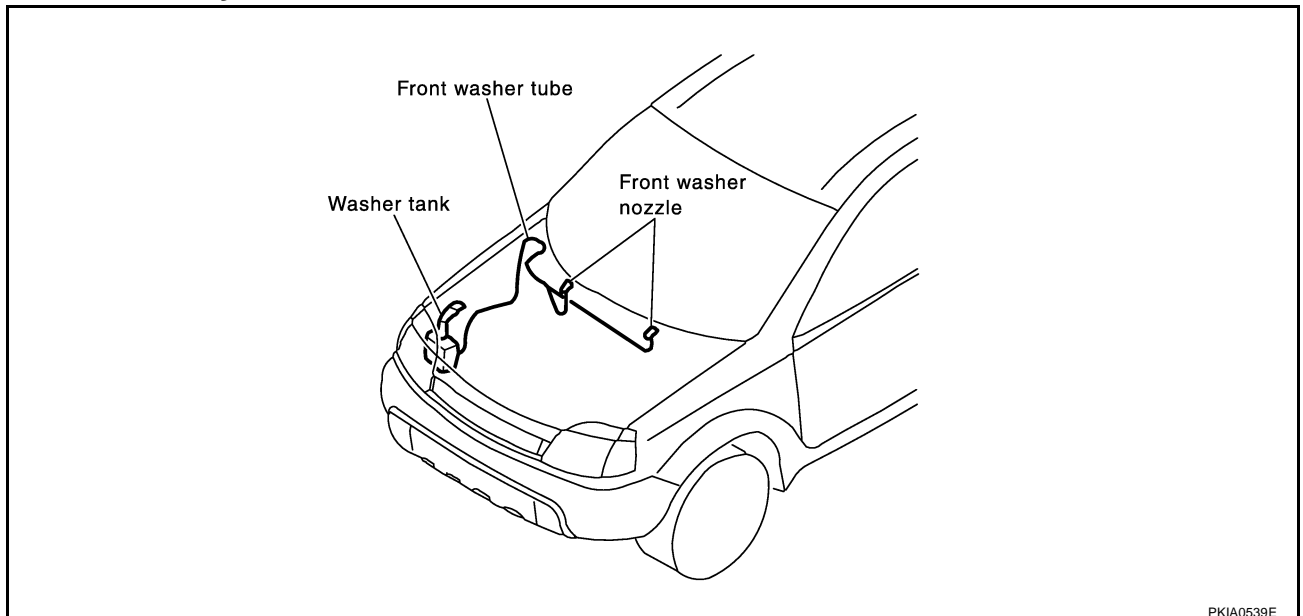
### NOTE:

\*: The diameters of these circles are less than 80 mm (3.15 in).



## Washer Tube Layout

EKS0032T



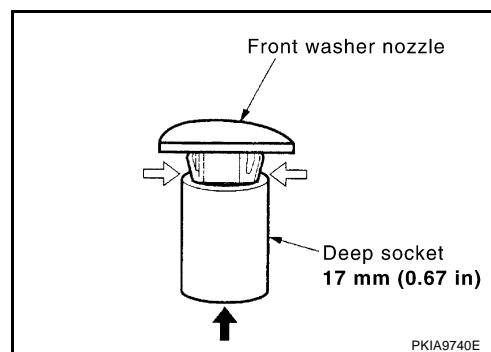
## FRONT WIPER AND WASHER SYSTEM

### Removal and Installation of Front Washer Nozzle

EKS0032U

#### REMOVAL

Push front washer nozzle pawl toward engine hood to pull out.



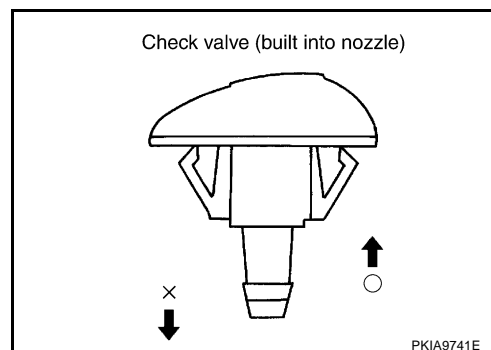
#### INSTALLATION

1. After connecting washer hose, press nozzle from cowl top cover surface.
2. Assemble nozzle and socket.
3. Adjust nozzle injection position.

### Inspection for Front Washer Nozzle CHECK VALVE

EKS0032V

Blow air in the injection direction, and check that air flows only one way. Make sure that the reverse direction (inhale) is not possible.

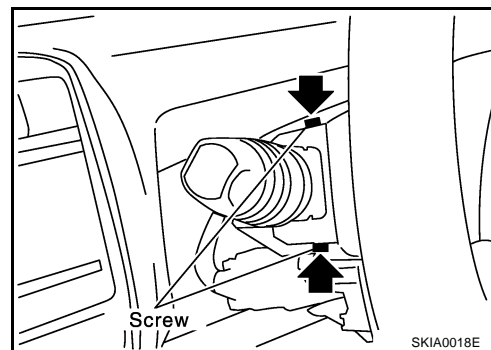


### Removal and Installation of Wiper and Washer Switch

EKS0032W

#### REMOVAL

1. Remove steering column cover. Refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#) in "INSTRUMENT PANEL (IP)" section.
2. Remove wiper and washer switch connector.
3. Remove two screws then remove wiper and washer switch from the spiral cable.



#### INSTALLATION

Installation is the reverse order of removal.

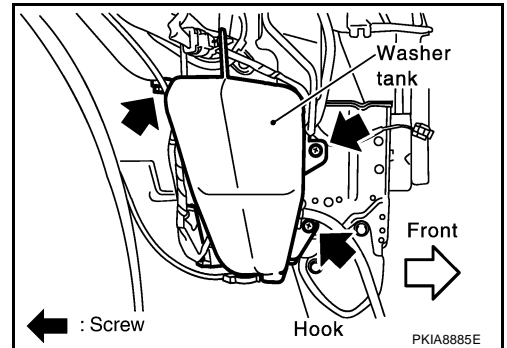
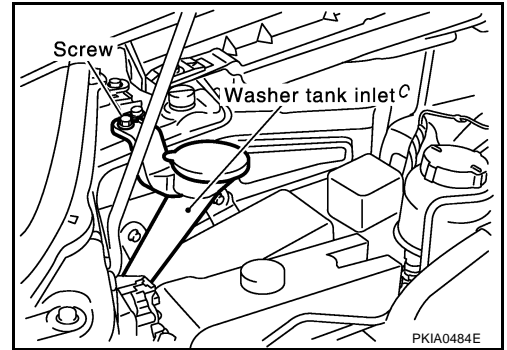
# FRONT WIPER AND WASHER SYSTEM

## Removal and Installation of Washer Tank

EKS0032X

### REMOVAL

1. Remove washer tank inlet mounting screw and pull out washer tank inlet.
2. Remove fender protector. Refer to [EI-21, "FENDER PROTECTOR"](#).
3. Remove washer motor connector.
4. Remove washer tank mounting screw and pawl.
5. Remove washer hose, and remove the washer tank from the vehicle.



### INSTALLATION

Installation is the reverse order of removal.

#### CAUTION:

After installation, add water up to the upper level of the washer tank inlet, and check for water leaks.

Washer tank mounting screw



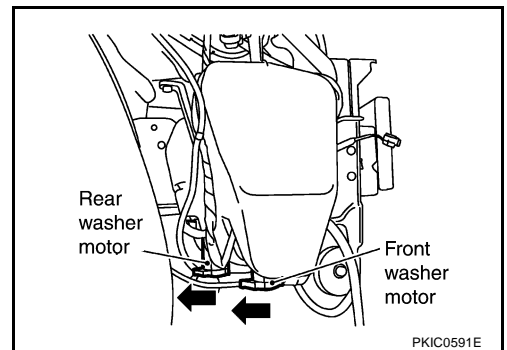
: 4.5 N·m (0.46 kg-m, 40 in-lb)

## Removal and Installation of Washer Motor

EKS0032Y

### REMOVAL

1. Remove fender protector. Refer to [EI-21, "FENDER PROTECTOR"](#).
2. Remove washer motor connector and hose.
3. Pull out washer motor in the direction of the arrow in the figure, and remove the washer motor from the washer tank.



### INSTALLATION

Installation is the reverse order of removal.

#### CAUTION:

When installing washer motor, there should be no packing twists, etc.

# REAR WIPER AND WASHER SYSTEM

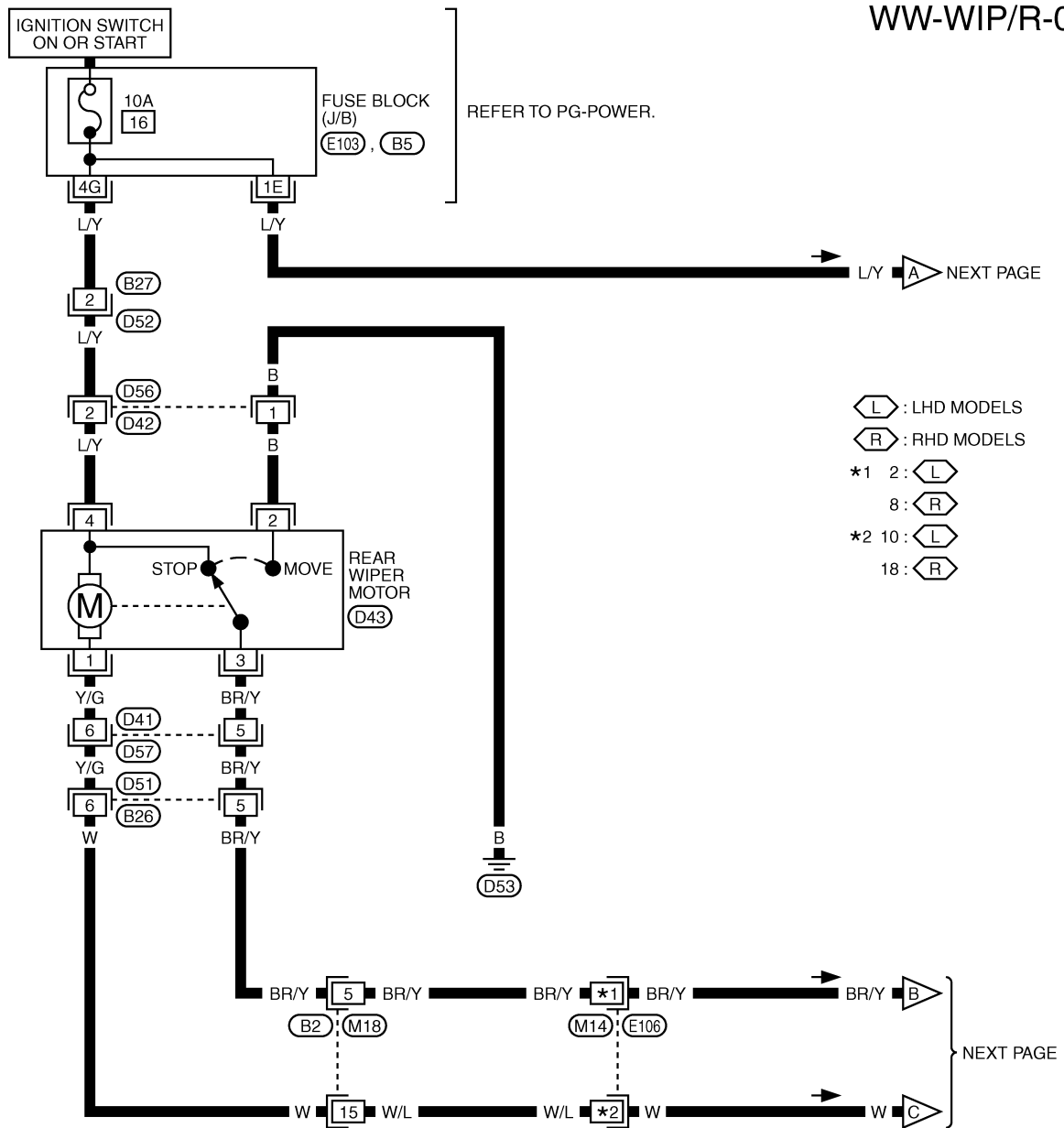
## REAR WIPER AND WASHER SYSTEM

PFP:28710

### Wiring Diagram — WIP/R —

EKS0032Z

WW-WIP/R-01



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

E106 : L  
BR

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

E106 : R  
W B2  
BR

1	2	3	4
---	---	---	---

D43  
W

1	2
3	4
5	6

D51, D57  
W W

1
2
3

D52  
W

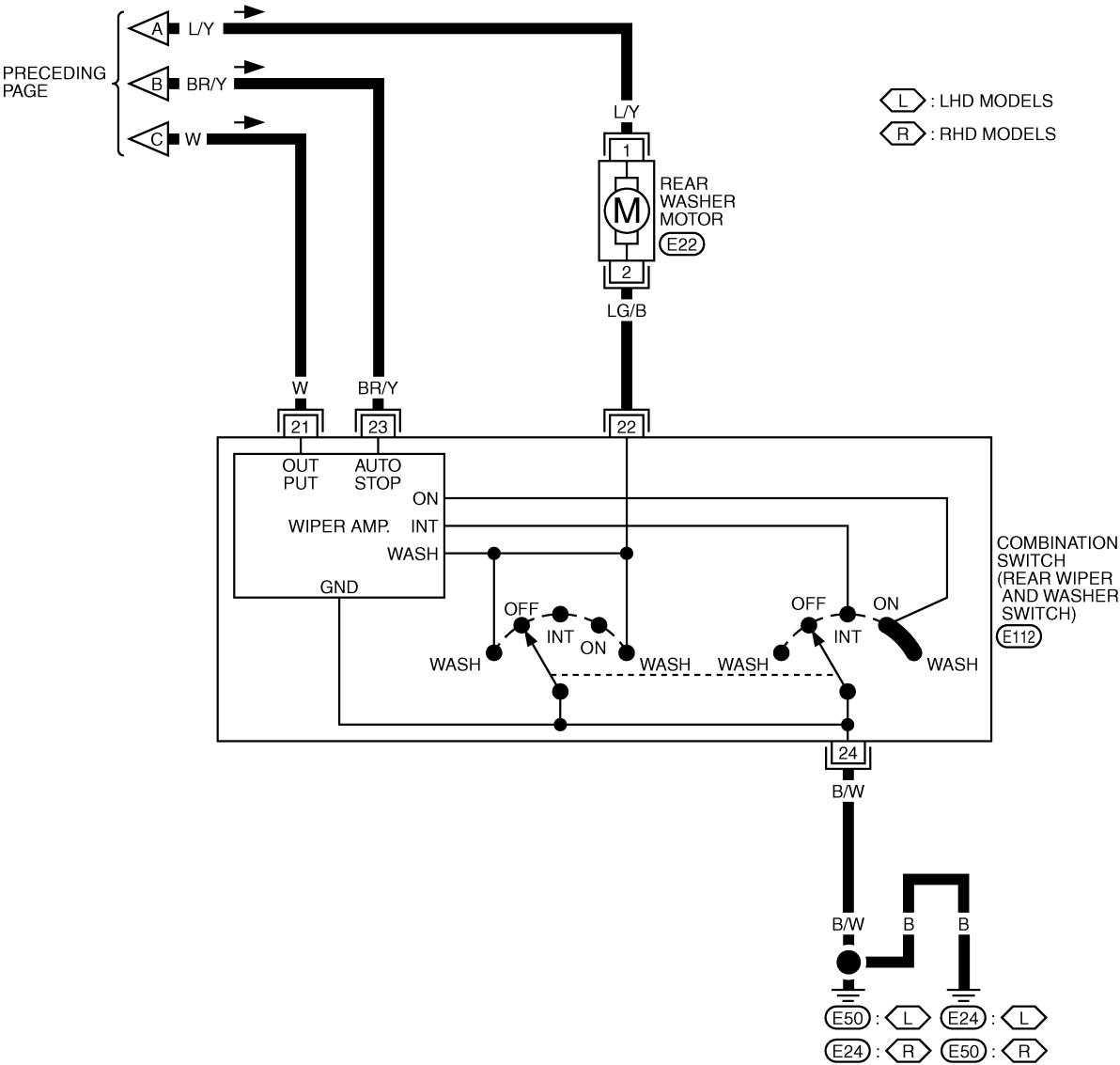
1	2
---	---

D56  
B

REFER TO THE FOLLOWING.  
E103, B5 - FUSE BLOCK-  
JUNCTION BOX (J/B)

REAR WIPER AND WASHER SYSTEM

WW-WIP/R-02

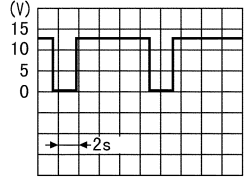


1	E22	14 21	18	E112
2	G	23 24 16 17 13 15 22	GY	

# REAR WIPER AND WASHER SYSTEM

## Terminal and Reference Values for Combination Switch

EKS00330

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Condition or operation	
21	W	Wiper motor Operation signal (ON)	ON	Wiper switch OFF	Battery voltage
				Wiper switch ON	Approx. 0V
22	LG/B	Washer switch signal	ON	Wiper switch WASH	Approx. 0V
				Wiper switch OFF	Battery voltage
23	BR/Y	Wiper motor Operation signal	ON	Wiper switch: INT	 SKIA0083J
24	B/W	Ground	OFF	—	—

## Removal and Installation of Rear Wiper Arms WIPER ARMS

EKS00331

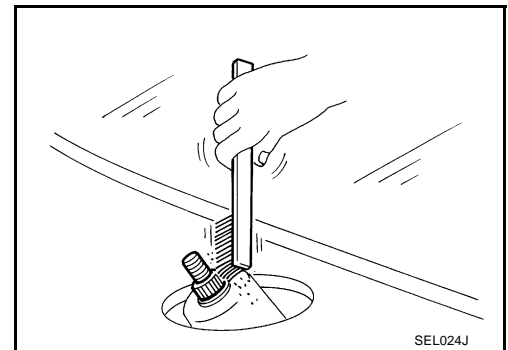
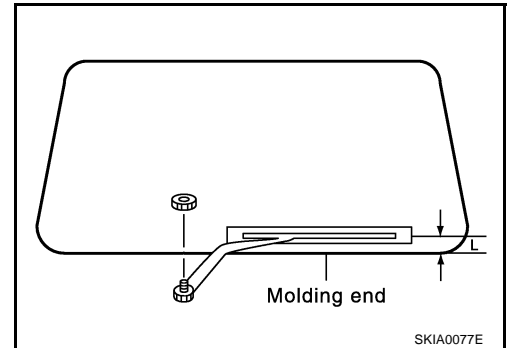
1. Turn on wiper switch to operate wiper motor and then turn it "OFF" (auto stop).
2. Lift the blade up and then set it down onto glass surface. Set the black center to clearance "L" immediately before tightening the nut.
3. Eject washer fluid. Turn on wiper switch to operate wiper motor and then turn it "OFF".
4. Ensure that wiper blades stop on the lowest heat wire.

**Clearance "L" : 55.6 - 70.6 mm (2.189 - 2.780 in)**

- Tighten wiper arm nut to specified torque.

**Rear wiper arm nuts : 15.2 N·m (1.6 kg-m, 11 ft-lb)**

- Before reinstalling wiper arm, clean up the pivot area as illustrated. This will reduce possibility of wiper arm looseness.

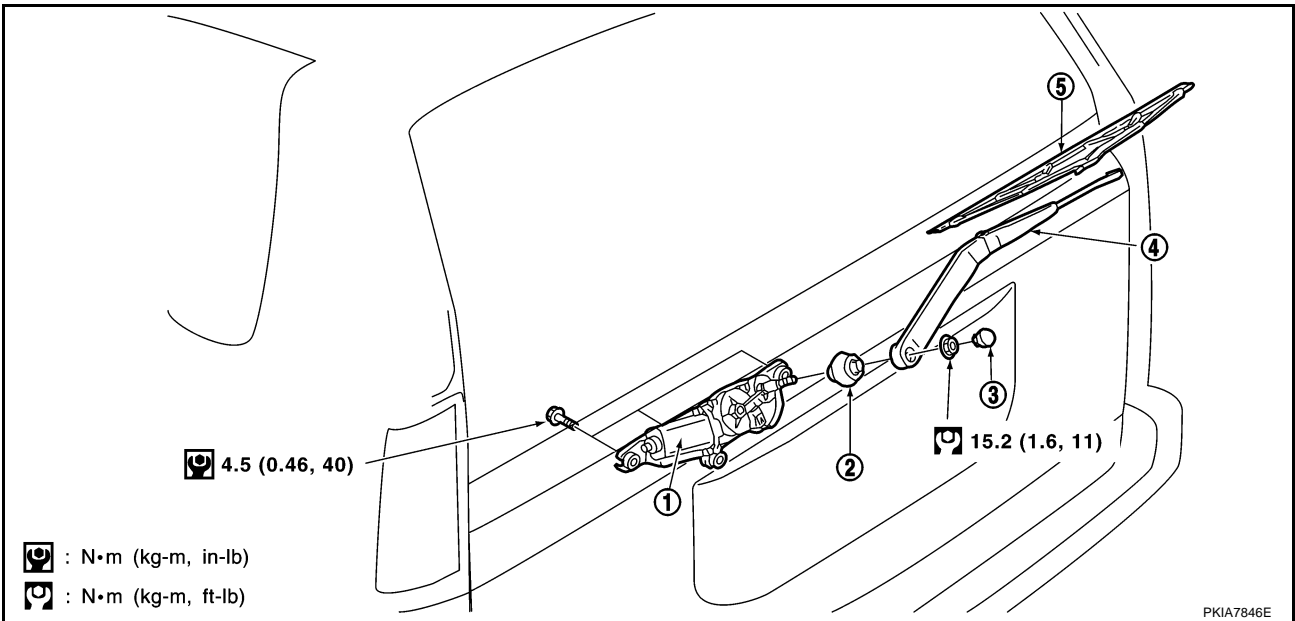




# REAR WIPER AND WASHER SYSTEM

## Removal and Installation of Rear Wiper Motor

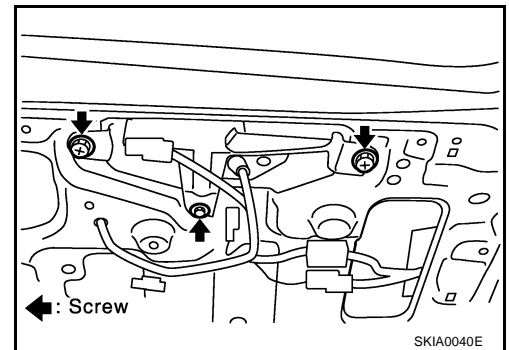
EKS00332



- |                |                |              |
|----------------|----------------|--------------|
| 1. Wiper motor | 2. Rubber      | 3. Nut cover |
| 4. Wiper arm   | 5. Wiper blade |              |

### REMOVAL

1. Remove the back door finisher. Refer to [EI-34, "BACK DOOR TRIM"](#).
2. Disconnect wiper motor connector.
3. Remove wiper arm from the vehicle.
4. Remove wiper motor from the vehicle.
5. Remove rubber from the vehicle.



### INSTALLATION

1. Install rubber to the vehicle.
2. Install wiper motor to the vehicle.
3. Connect wiper motor to connector. Turn the rear wiper switch ON to operate wiper motor, then turn the rear wiper switch OFF (auto stop).
4. Install wiper arm to the vehicle.
5. Install back door finisher. Refer to [EI-34, "BACK DOOR TRIM"](#).

**Rear wiper motor mounting bolt** : 4.5 N·m (0.46 kg-m, 40 in-lb)

### CAUTION:

- Never drop the wiper motor or cause it to contact other parts.
- Check the grease conditions of the motor arm and wiper link joint (at retainer). Apply grease if necessary.

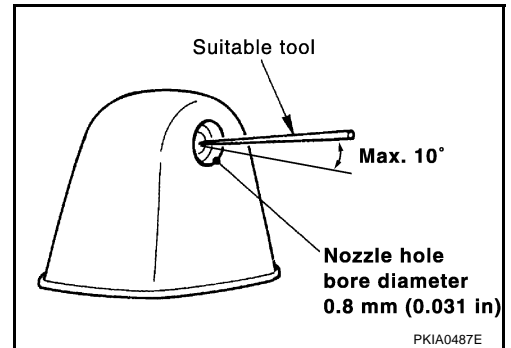
# REAR WIPER AND WASHER SYSTEM

## Rear Washer Nozzle Adjustment

EKS00333

- Adjust rear washer nozzle with suitable tool as shown in the figure at left.

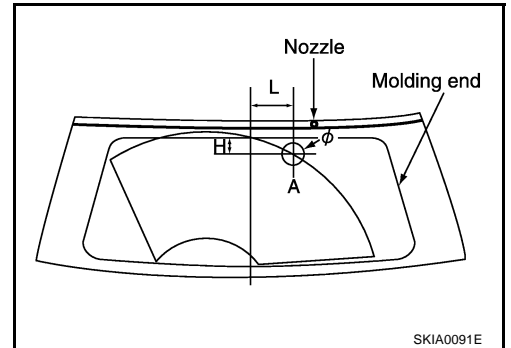
**Adjustable range :  $\pm 10^\circ$  (In any direction)**



Unit: mm (in)

*H	90 (3.54)
*L	150 (5.91)

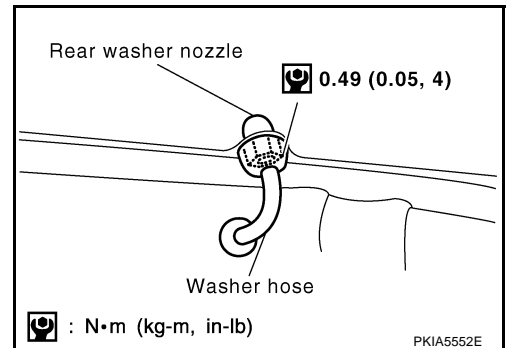
\*: The diameter of this circle is less than 40 mm (1.57in).



## Removal and Installation of Rear Washer Nozzle

EKS00334

- Remove washer hose from rear washer nozzle.
- Remove rear washer nozzle mounting screw and remove rear washer nozzle.



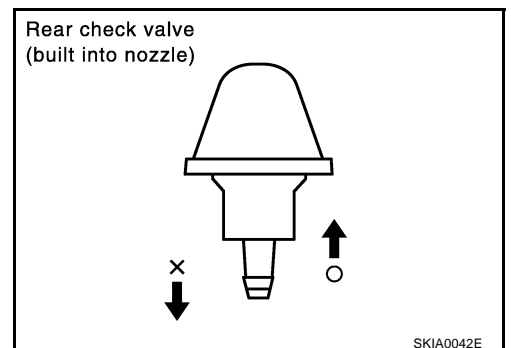
## INSTALLATION

- After connecting washer hose, press nozzle from cowl top cover surface.
- Assemble nozzle and socket.
- Adjust nozzle injection position.

## Inspection for Rear Washer Nozzle

EKS00335

**CHECK VALVE**  
Blow air in the injection direction, and check that air flows only one way. Make sure that the reverse direction (inhale) is not possible.



# REAR WIPER AND WASHER SYSTEM

## Removal and Installation of Wiper and Washer Switch

EKS00336

Refer to [WW-12, "Removal and Installation of Wiper and Washer Switch"](#) .

## Removal and Installation of Washer Tank

EKS00337

Refer to [WW-13, "Removal and Installation of Washer Tank"](#) .

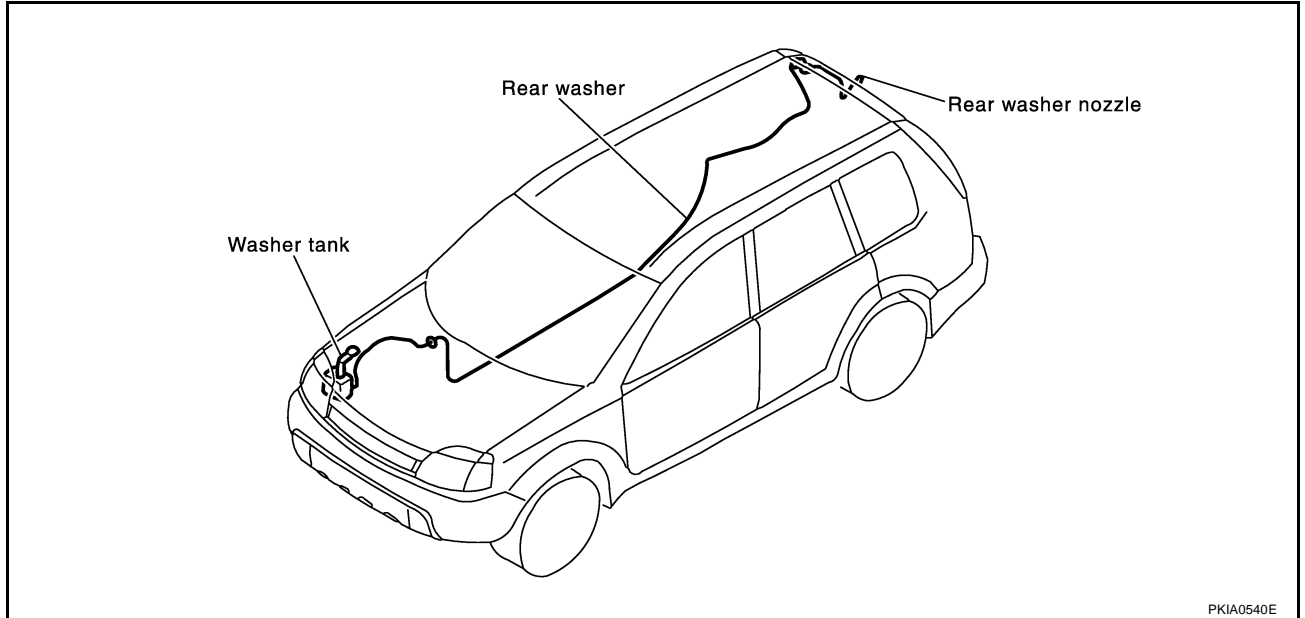
## Removal and Installation of Washer Motor

EKS00338

Refer to [WW-13, "Removal and Installation of Washer Motor"](#) .

## Washer Tube Layout

EKS00339



PKIA0540E

A

B

C

D

E

F

G

H

I

J

WW

L

M

---

## HEADLAMP WASHER

PFP:28620

### System Description

EKS0036H

The headlamp washer is controlled by the headlamp washer timer. With power and ground supplied, the headlamp washer motor operates.

Power is supplied at all times

- through 30A fusible link (letter E, located in fuse and fusible link box)
- to headlamp washer motor terminal 1,
- through 10A fuse (No. 31, located in fuse and fusible link box)
- to lighting switch terminal 11.

With the ignition switch in the ON or START position, power is supplied (with xenon headlamp)

- through 10A fuse [No. 11, located in fuse block (J/B)]
- to headlamp washer timer terminal 4.

With the ignition switch in the ON or START position, power is supplied (without xenon headlamp)

- through 10A fuse [No. 13, located in fuse block (J/B)]
- to headlamp washer timer terminal 4.

Ground is supplied

- to headlamp washer timer terminal 5
- through grounds E24 and E50.

When headlamp washer switch is pushed during lighting switch is in 1ST or 2ND position, ground is supplied (with xenon headlamp)

- to headlamp washer motor terminal 2
- through headlamp washer timer terminal 2,
- to headlamp washer timer terminal 6
- through front wiper and washer switch terminal 18
- through front wiper and washer switch terminal 17
- through grounds M24 and M50.

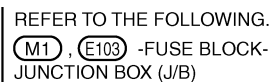
When headlamp washer switch is pushed during lighting switch is in 1ST or 2ND position, ground is supplied (without xenon headlamp)

- to headlamp washer motor terminal 2
- through headlamp washer timer terminal 2,
- to headlamp washer timer terminal 6
- through headlamp washer switch terminal 2
- through headlamp washer switch terminal 1
- through grounds M27 and M70.

With power and ground supplied, the headlamp washer motor operates.

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

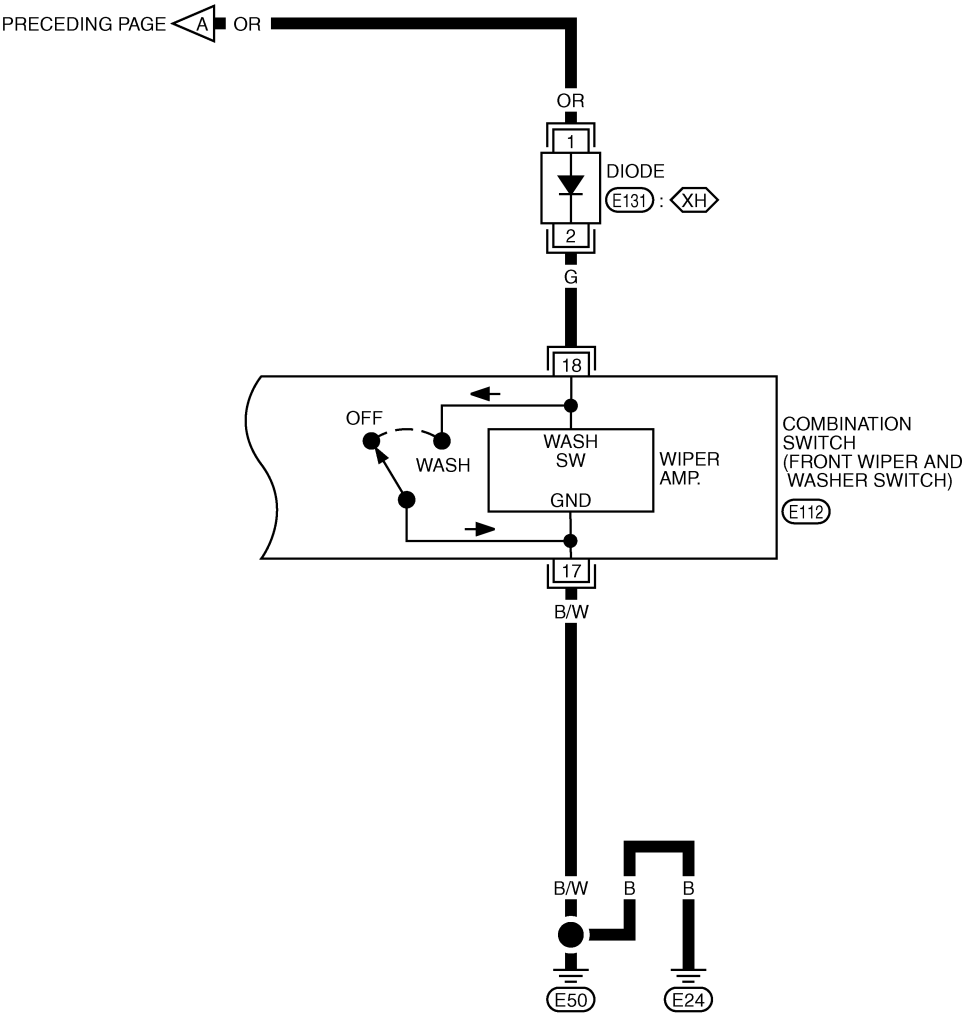
## EKS0036/



HEADLAMP WASHER

WW-HLC-02

XH : WITH XENON HEADLAMP



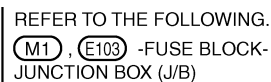
	14	21		18
23	24	16	17	13
15	22			

E112  
GY

1 2 E131  
W

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

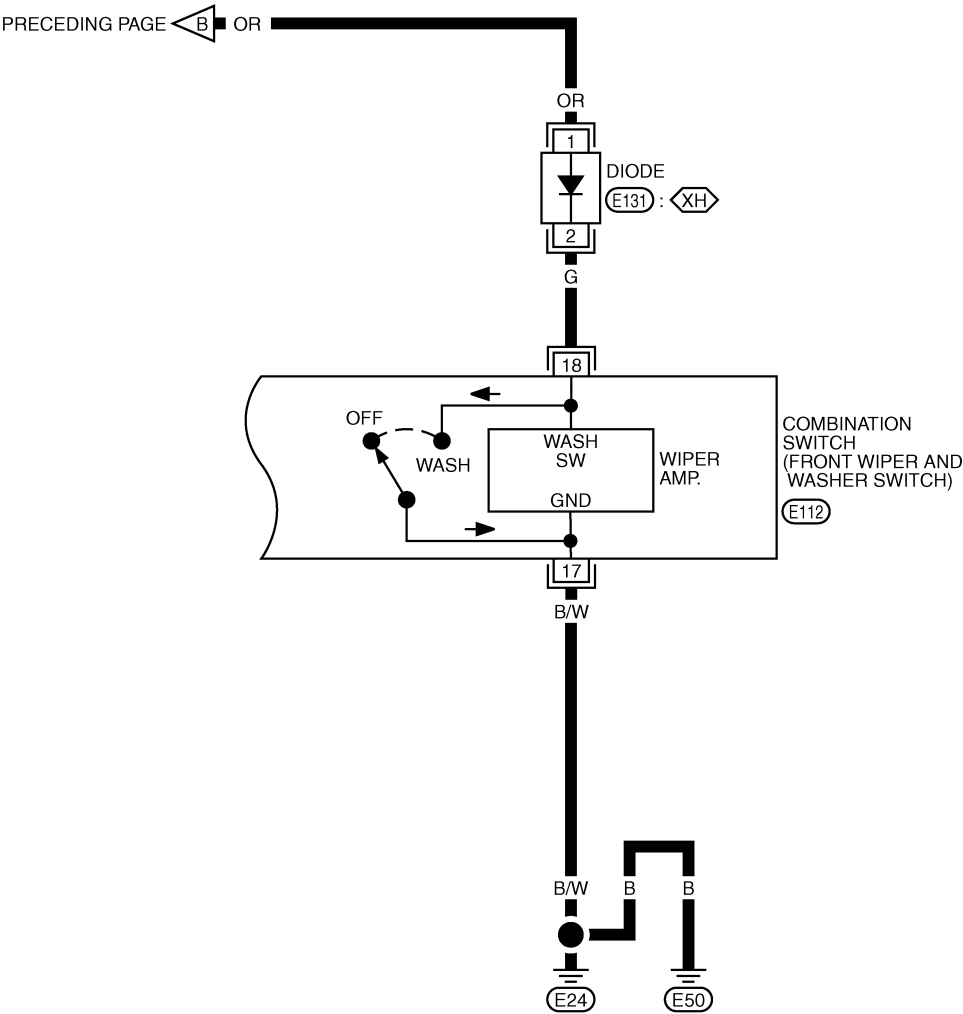
## EKS00ES9



HEADLAMP WASHER


WW-HLC-04

 : WITH XENON HEADLAMP



	14	21		18
23	24	16	17	13
15	22			

(E112)  
GY

 (E131)  
W



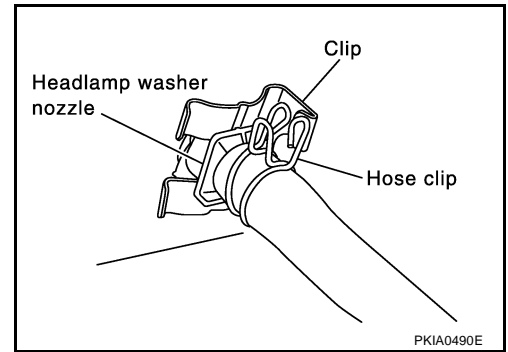
# HEADLAMP WASHER

## Removal and Installation of Headlamp Washer Nozzle

EKS0036J

### REMOVAL

1. Remove front bumper. Refer to [EI-14, "FRONT BUMPER"](#)
2. Remove hose clip and metal clip.
3. Remove headlamp washer nozzle from front bumper.



### INSTALLATION

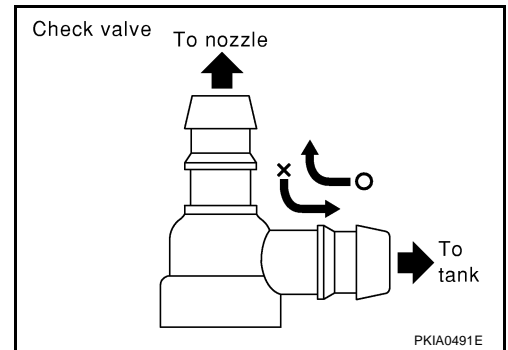
Installation is in the reverse order of removal.

## Inspection for Headlamp Washer Nozzle

EKS0036K

### CHECK VALVE

Blow air in the injection direction, and check that air flows only one way. Make sure that the reverse direction is not possible.



## Removal and Installation of Washer Tank

Refer to [WW-13, "Removal and Installation of Washer Tank"](#) .

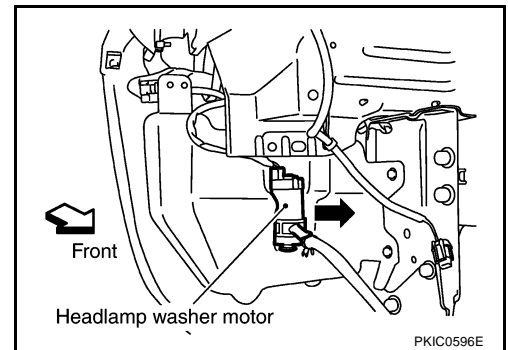
## Removal and Installation of Washer Motor

EKS0036L

1. Remove front bumper. Refer to [EI-14, "FRONT BUMPER"](#)
2. Remove washer motor connector and hose.
3. Pull out washer motor in the direction of the arrow in the figure, and remove the washer motor from the washer tank.

### CAUTION:

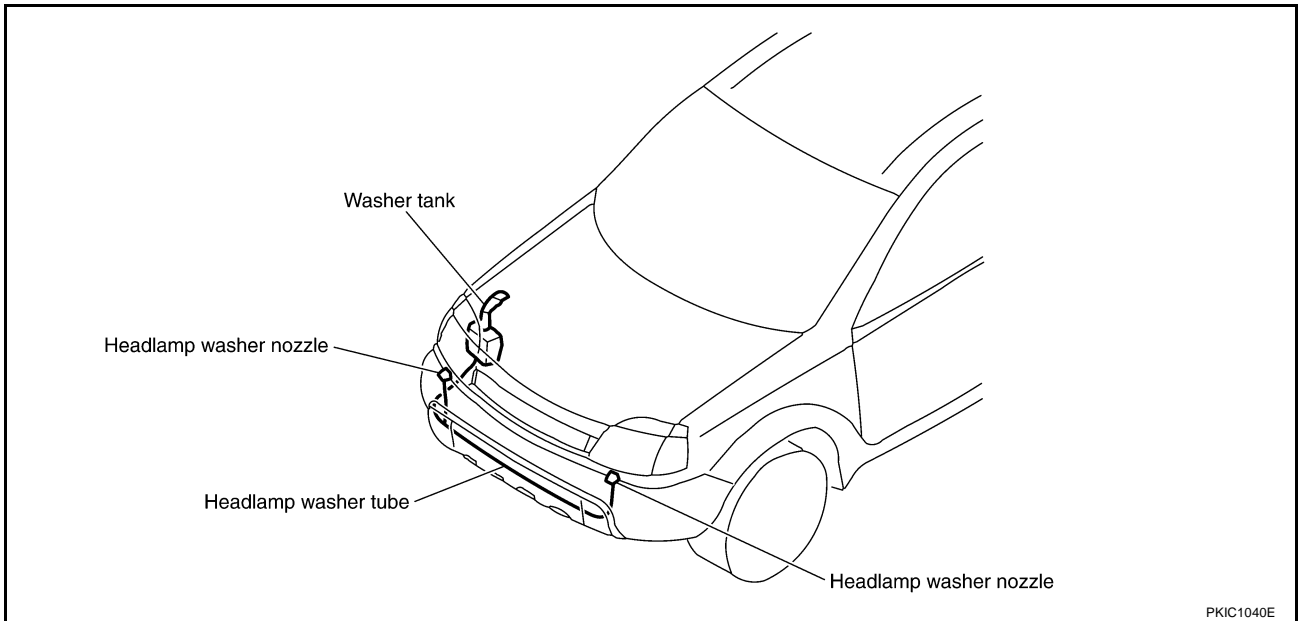
When installing washer motor, there should be no packing twist, etc.



# HEADLAMP WASHER

## Washer Tube Layout

EKS0036N





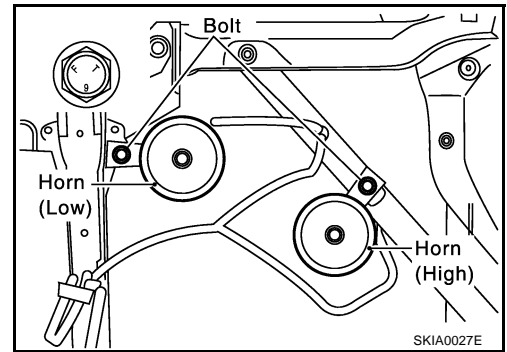
# HORN

## Removal and Installation

### REMOVAL

1. Remove the front grille. Refer to [EI-19, "FRONT GRILLE"](#)
2. Disconnect horn connector.
3. Remove horn.

EKS0033B



### INSTALLATION

Installation is the reverse order of removal.

**Horn mounting bolt**



**: 17 N·m (1.7 kg-m, 13 ft-lb)**

# CIGARETTE LIGHTER

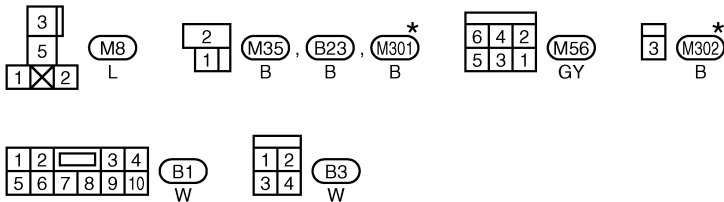
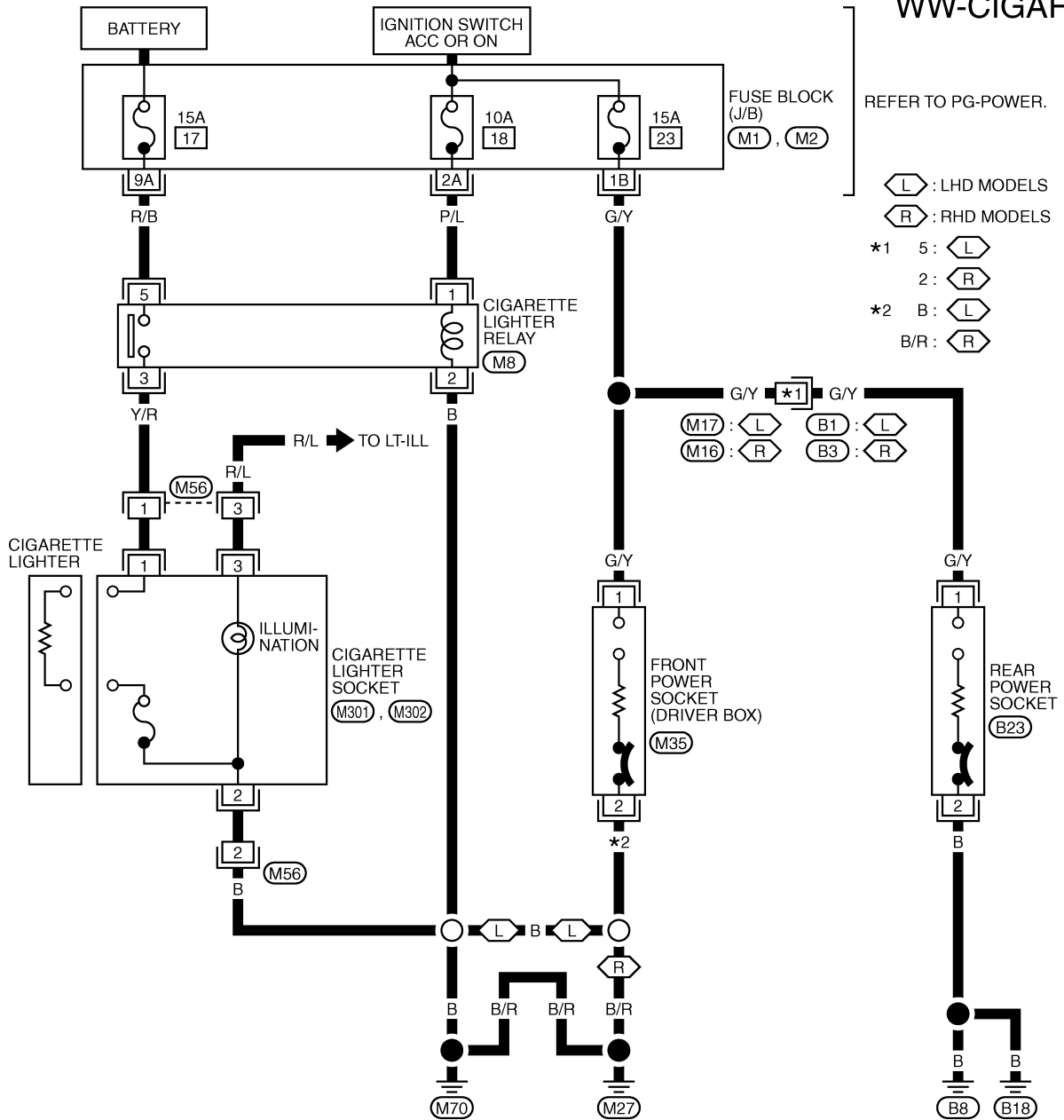
## CIGARETTE LIGHTER

PFP:35330

### Wiring Diagram — CIGAR —

EKS0033C

#### WW-CIGAR-01



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

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

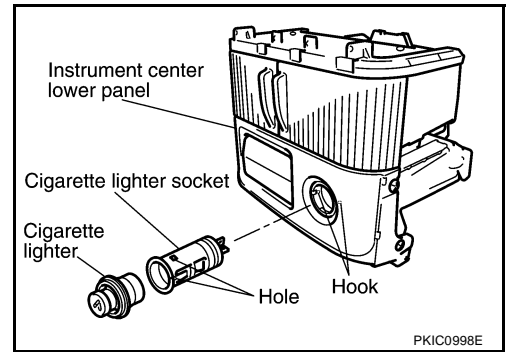
# CIGARETTE LIGHTER

## Removal and Installation

EKS0033D

### REMOVAL

1. Remove instrument center lower panel, refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#).
2. Disconnect cigarette lighter and illumination lamp connector.
3. Remove cigarette lighter socket from instrument center lower panel, while pressing the hook from hole.



### INSTALLATION

Installation is the reverse order of removal.

## POWER SOCKET

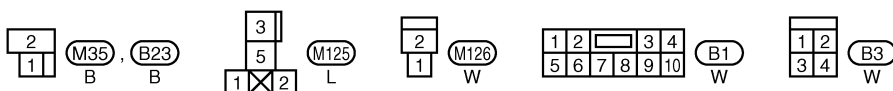
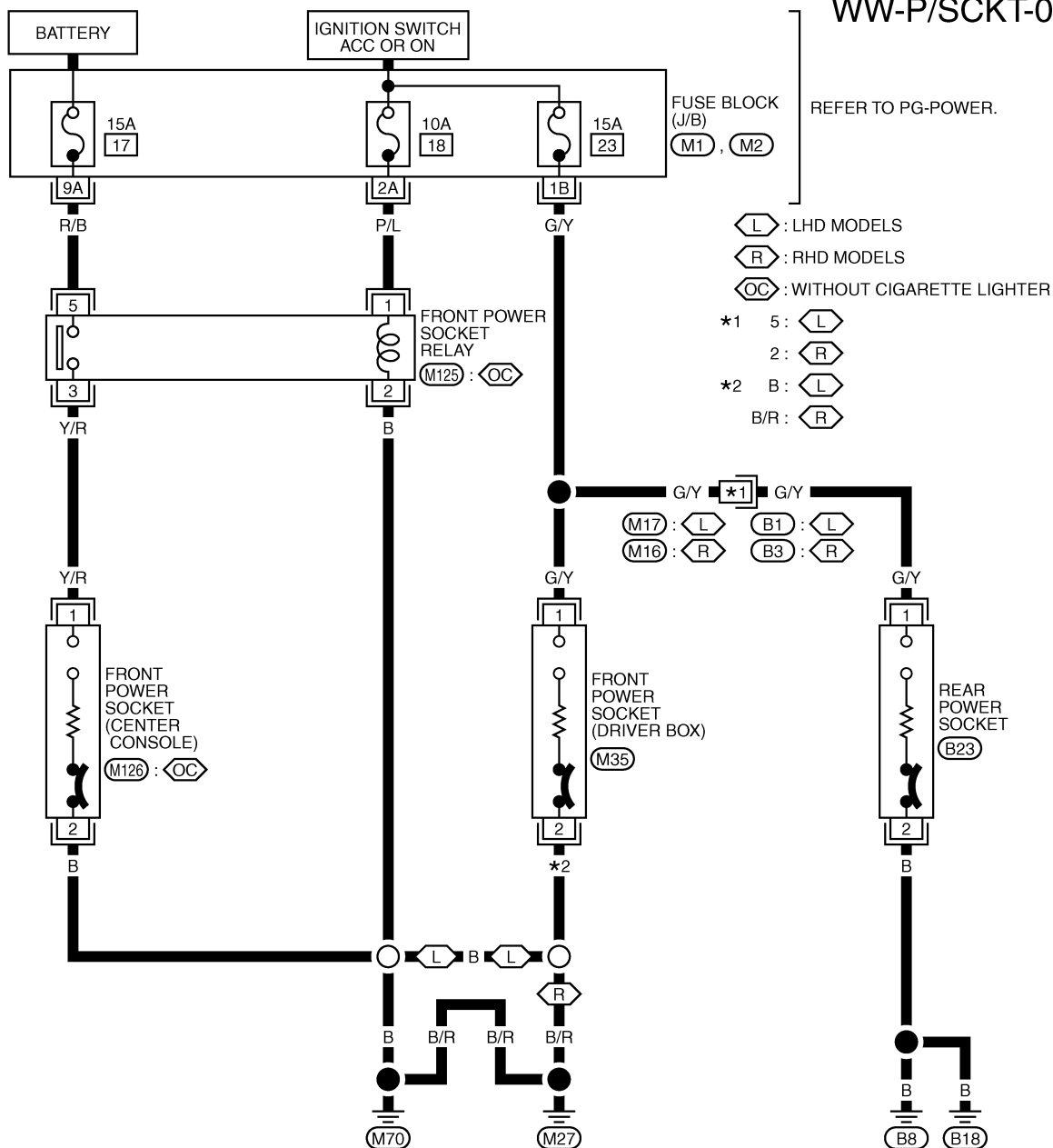
## POWER SOCKET

PFP:253A2

## Wiring Diagram —POWER SOCKET—

EKS0036E

## WW-P/SCKT-01



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

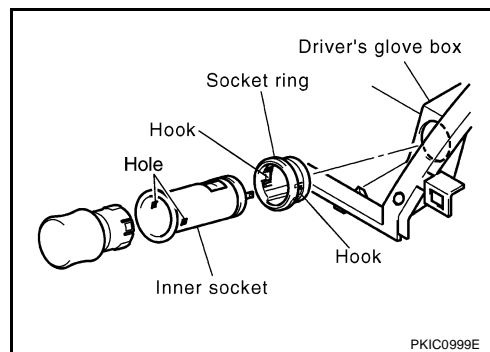
# POWER SOCKET

## Removal and Installation of Front Power Socket (Driver Box)

EKS0036F

### REMOVAL

1. Remove the driver's glove box, refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#)
2. Disconnect power socket connector.
3. Remove inner socket from socket ring, while pressing the hook from hole.
4. Pull out socket ring from driver's glove box.



### INSTALLATION

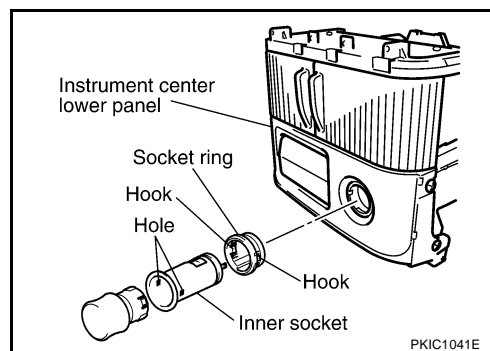
Installation is the reverse order of removal.

## Removal and Installation of Front Power Socket (Center Console)

EKS000MV

### REMOVAL

1. Remove the instrument center lower panel. Refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#).
2. Disconnect power socket connector.
3. Remove inner socket from socket ring, while pressing the hook from hole.
4. Remove socket ring from instrument center lower panel.



### INSTALLATION

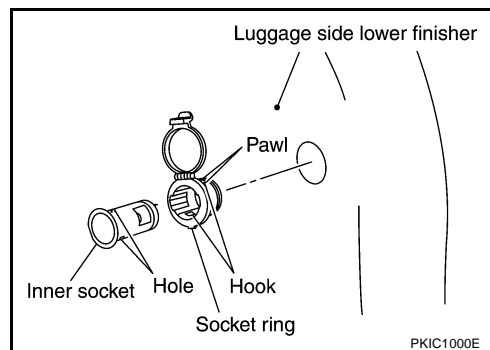
Installation is the reverse order of removal.

## Removal and Installation of Rear Power Socket

EKS0036G

### REMOVAL

1. Remove luggage side lower finisher, refer to [EI-36, "LUGGAGE SIDE LOWER FINISHER"](#)
2. Disconnect power socket connector.
3. Remove inner socket from socket ring, while pressing the hook from hole.
4. Remove socket ring from luggage side lower finisher, while pressing pawls.



### INSTALLATION

Installation is the reverse order of removal.