

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 followings:

- 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 followings:

- 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 the fuse block (J/B)]
- to front wiper motor terminal 2.

### Low and High Speed Wiper Operation

Ground is supplied to front wiper and washer switch terminal 17 through body grounds E24 and E50.  
When the wiper switch is placed in the LO position, ground is supplied

- through front wiper and washer switch terminal 14
- to front wiper motor terminal 3.

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

- through front wiper and washer switch terminal 16
- to front wiper motor terminal 5.

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

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

Ground is also supplied

- through front wiper and washer switch terminal 13
- to front wiper motor terminal 4
- through terminal 1 of the front wiper motor terminal 1 and
- 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

- through wiper amplifier (OUTPUT) and
- through front wiper and washer switch terminal 14
- to front wiper motor terminal 3

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 the fuse block (J/B)]
- to front washer motor terminal 1.

When the lever is pulled to the WASH position, ground is supplied

## FRONT WIPER AND WASHER SYSTEM

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

With power and ground supplied, the washer motor operates.

When the lever is pulled to the WASH 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

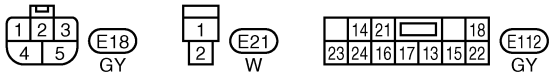
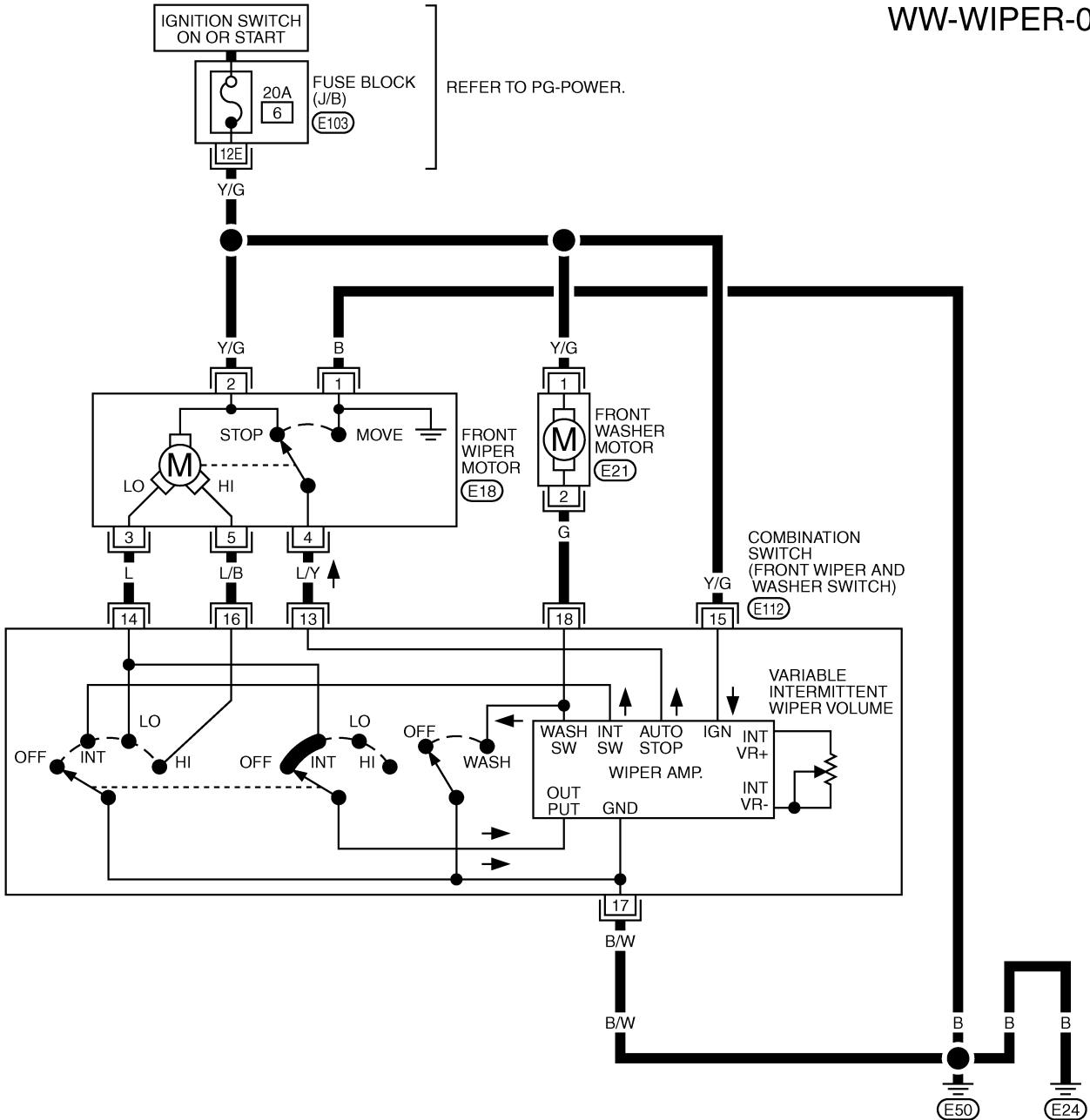
M

# FRONT WIPER AND WASHER SYSTEM

## Wiring Diagram — WIPER —

EKS0032.0

WW-WIPER-01



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

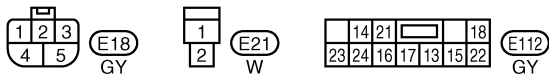
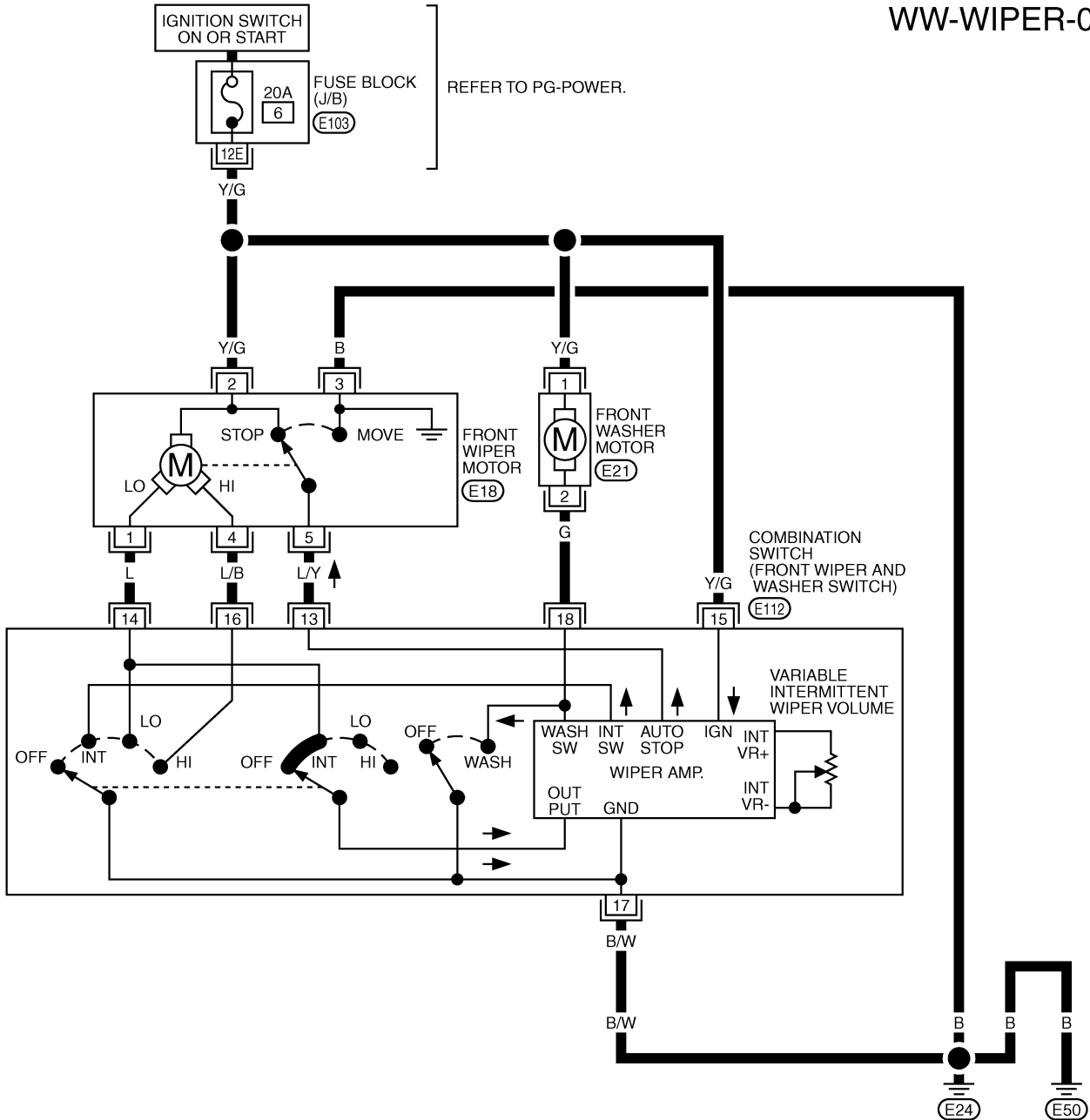
TKWA1554E

# 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

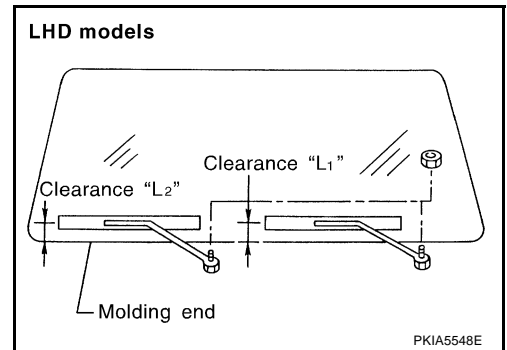
EKS0032P

TERMINAL NO.	WIRE COLOR	ITEM	CONDITION		DATA (DC Voltage)
			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 ON signal	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 for 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".



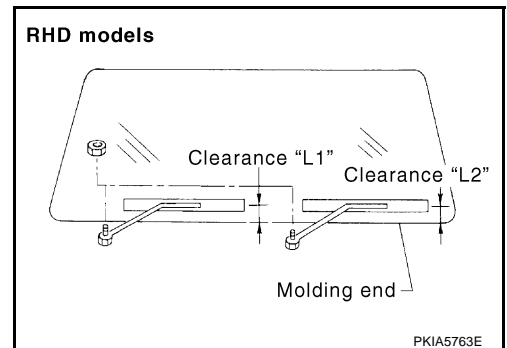
4. Ensure that front wiper blades stop within clearance "L1" & "L2".

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

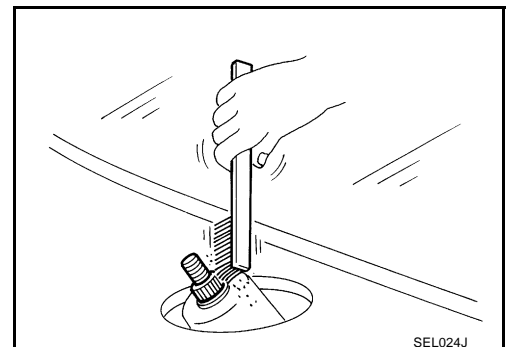
**Clearance "L2": 39.3 - 54.3 mm (1.547 - 2.138 in)**

- Tighten front wiper arm nuts to specified torque.

**Front wiper:**  **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  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M

## EKS0032R

## WW



- L  
M

## WW

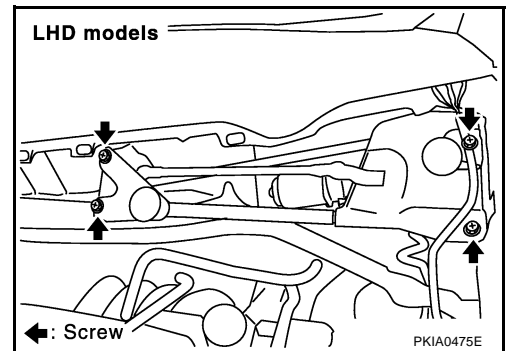
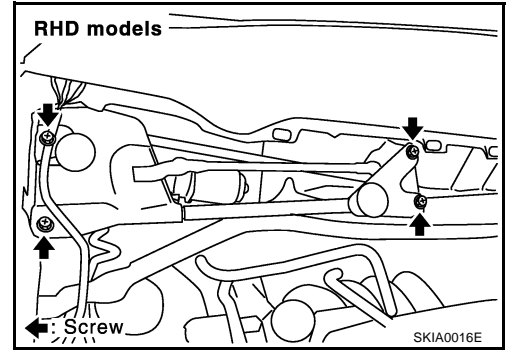


- L
- M

# FRONT WIPER AND WASHER SYSTEM

## REMOVAL

1. Operate the front wiper motor, and stop it at the auto stop position.
2. Remove front wiper arm from the vehicle.
3. Remove the cowl top cover. Refer to [EI-20, "COWL TOP"](#).
4. Remove 4 screws and remove front wiper motor assembly from the vehicle.
5. Disconnect front wiper motor connector.
6. Remove wiper link from wiper frame.
7. Remove front wiper motor from wiper frame.

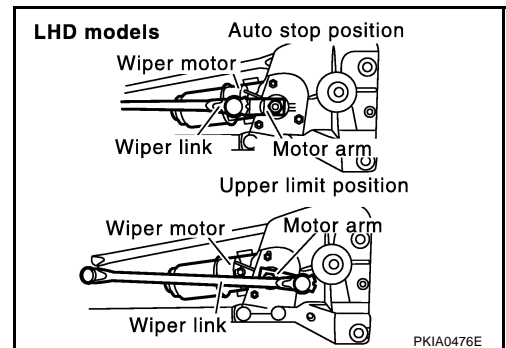
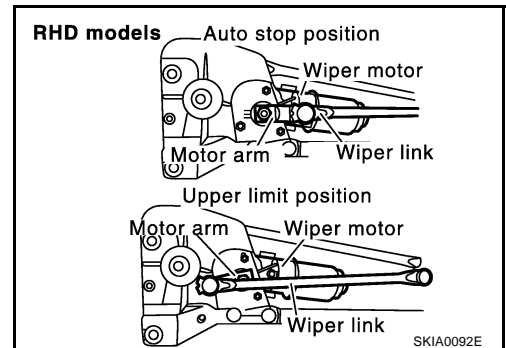


## INSTALLATION

1. Connect front wiper motor to connector. Turn the 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 motor 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 wiper motor assembly to the vehicle.
9. Turn the wiper switch ON to operate the Wiper motor, then turn wiper switch OFF (auto stop).
10. Install cowl top cover. Refer to [EI-20, "COWL TOP"](#).
11. Install wiper arm to the vehicle.

### CAUTION:

- Do not 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.



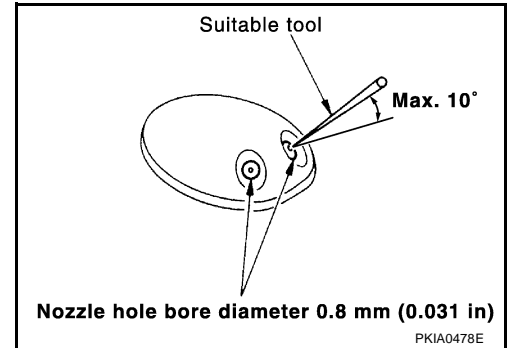
# FRONT WIPER AND WASHER SYSTEM

## Washer Nozzle Adjustment

EKS0032S

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

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

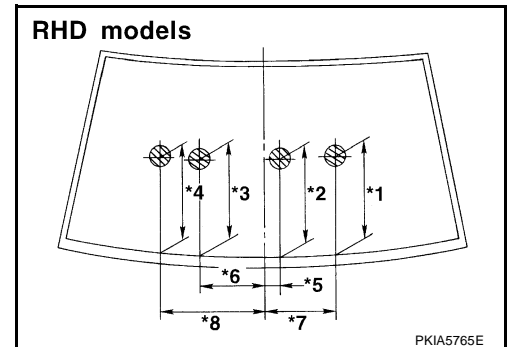
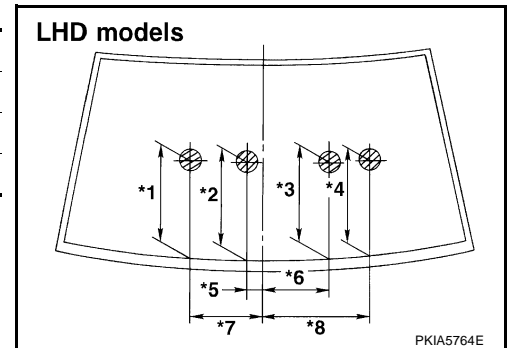


Unit: mm (in)

*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)

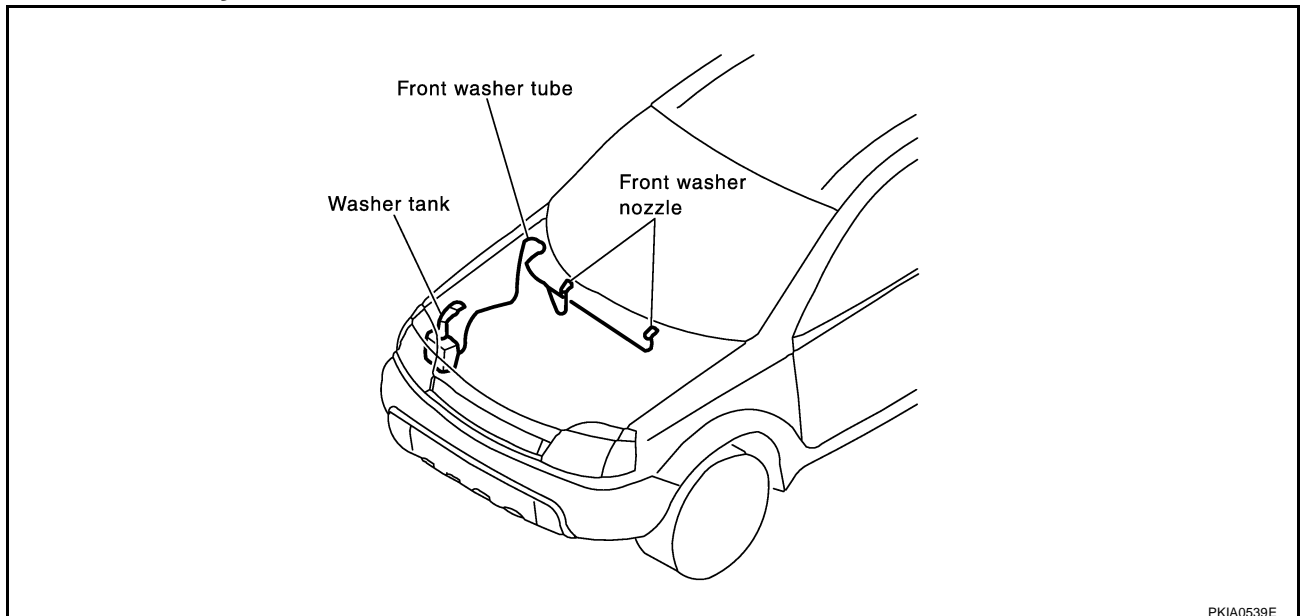
### NOTE:

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



## Washer Tube Layout

EKS0032T



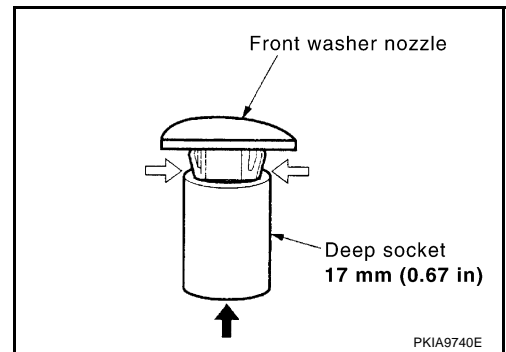
# FRONT WIPER AND WASHER SYSTEM

## Removal and Installation for Washer Nozzle

EKS0032U

### REMOVAL

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



### INSTALLATION

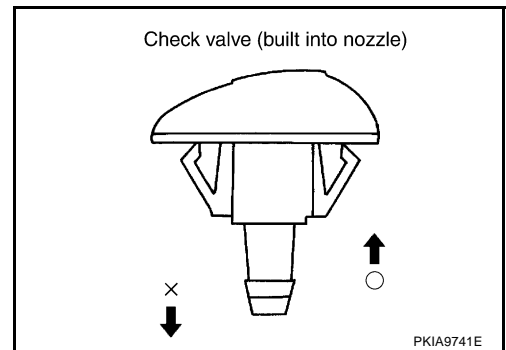
1. After connecting washer hose, press nozzle from cowl top cover surface.
2. Assemble nozzle and socket.
3. Adjust nozzle injection position.

## Inspection for 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.

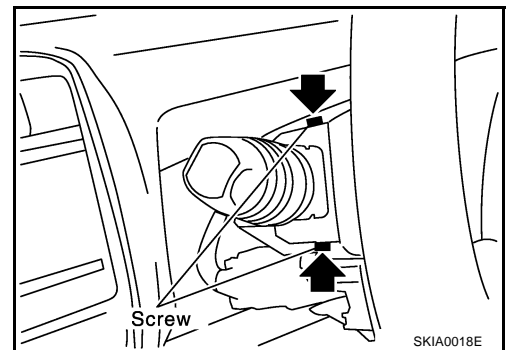


## Removal and Installation for Wiper and Washer Switch

### REMOVAL

EKS0032W

1. Remove steering column cover.
2. Remove wiper washer switch connector.
3. Remove two screws then remove wiper washer switch from the spiral cable.



### INSTALLATION

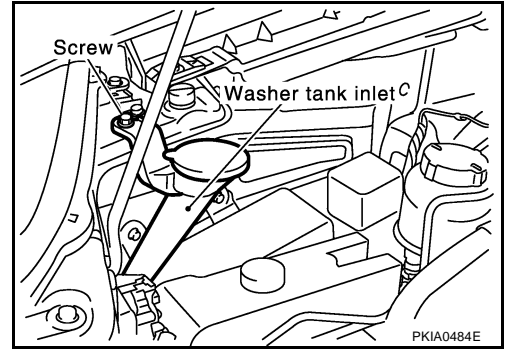
Installation is in the reverse order of removal.

# FRONT WIPER AND WASHER SYSTEM

## Removal and Installation for Washer Tank

EKS0032X

1. Remove washer tank inlet installation screw and pull out washer tank inlet.
2. Remove fender protector, refer to [EI-21, "FENDER PROTECTOR"](#)
3. Remove washer pump connector.
4. Remove washer tank installation screw and pawl.



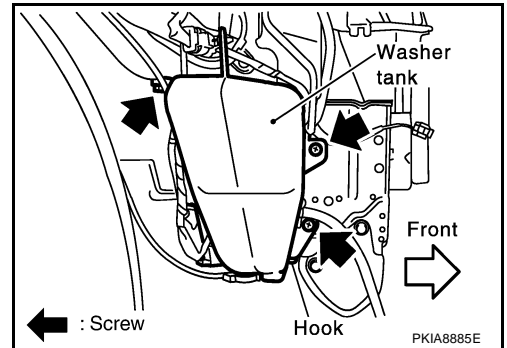
5. Remove washer hose, and remove the washer tank from the vehicle.

### CAUTION:

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

Washer tank installation screw

 : 4.5 N-m (0.45 kg-m, 39 in-lb)



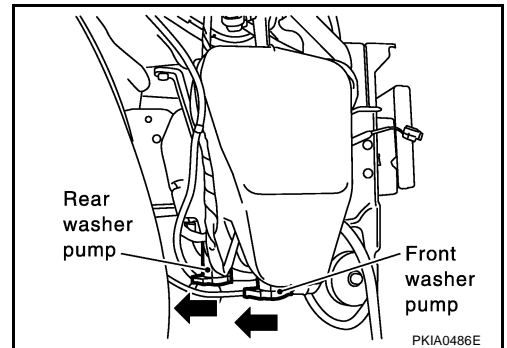
## Removal and Installation for Washer Pump

EKS0032Y

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

### CAUTION:

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



# REAR WIPER AND WASHER SYSTEM

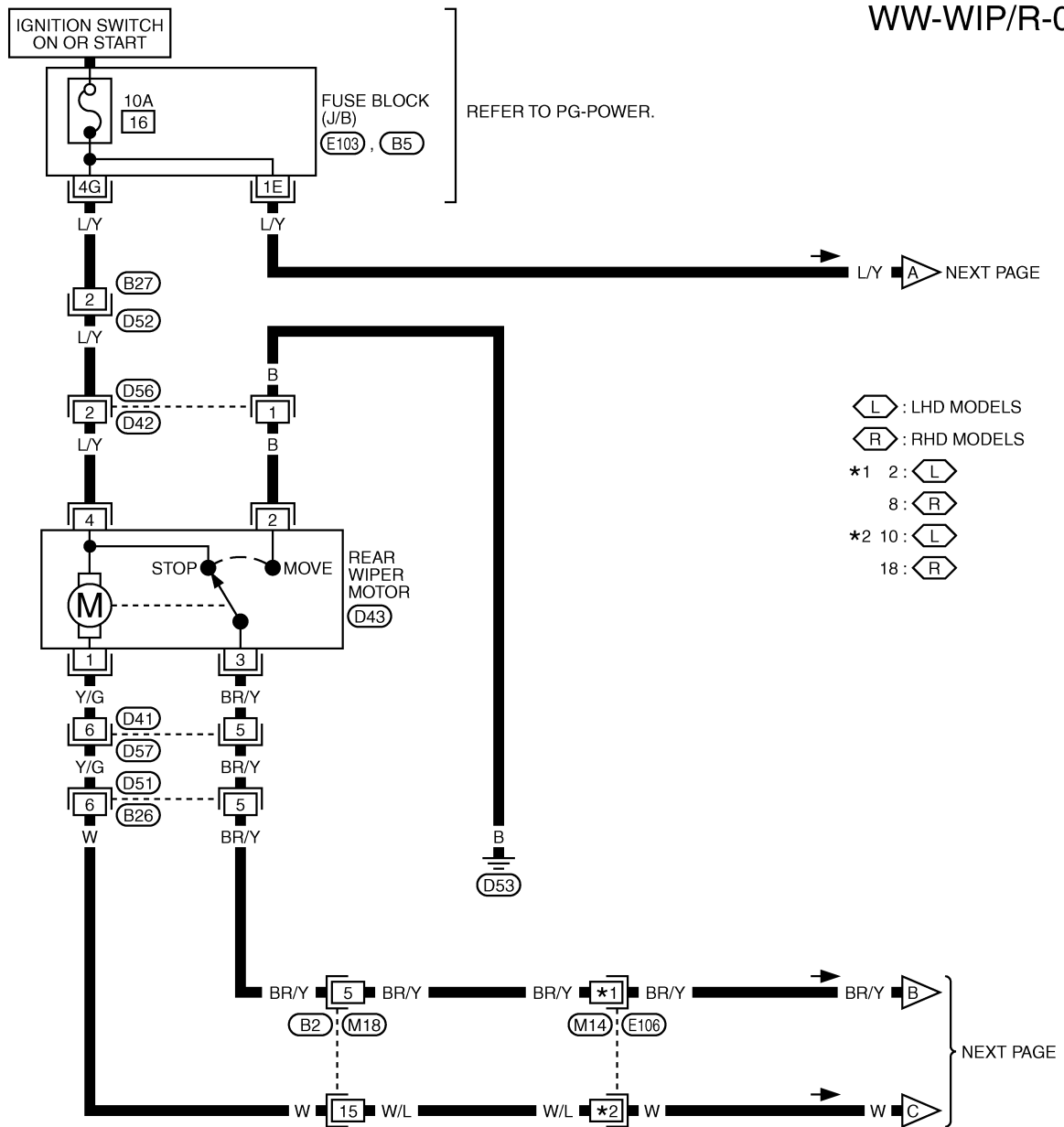
## REAR WIPER AND WASHER SYSTEM

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  
W

D57  
W

1
2
3

D52  
W

1	2
---	---

D56  
B

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

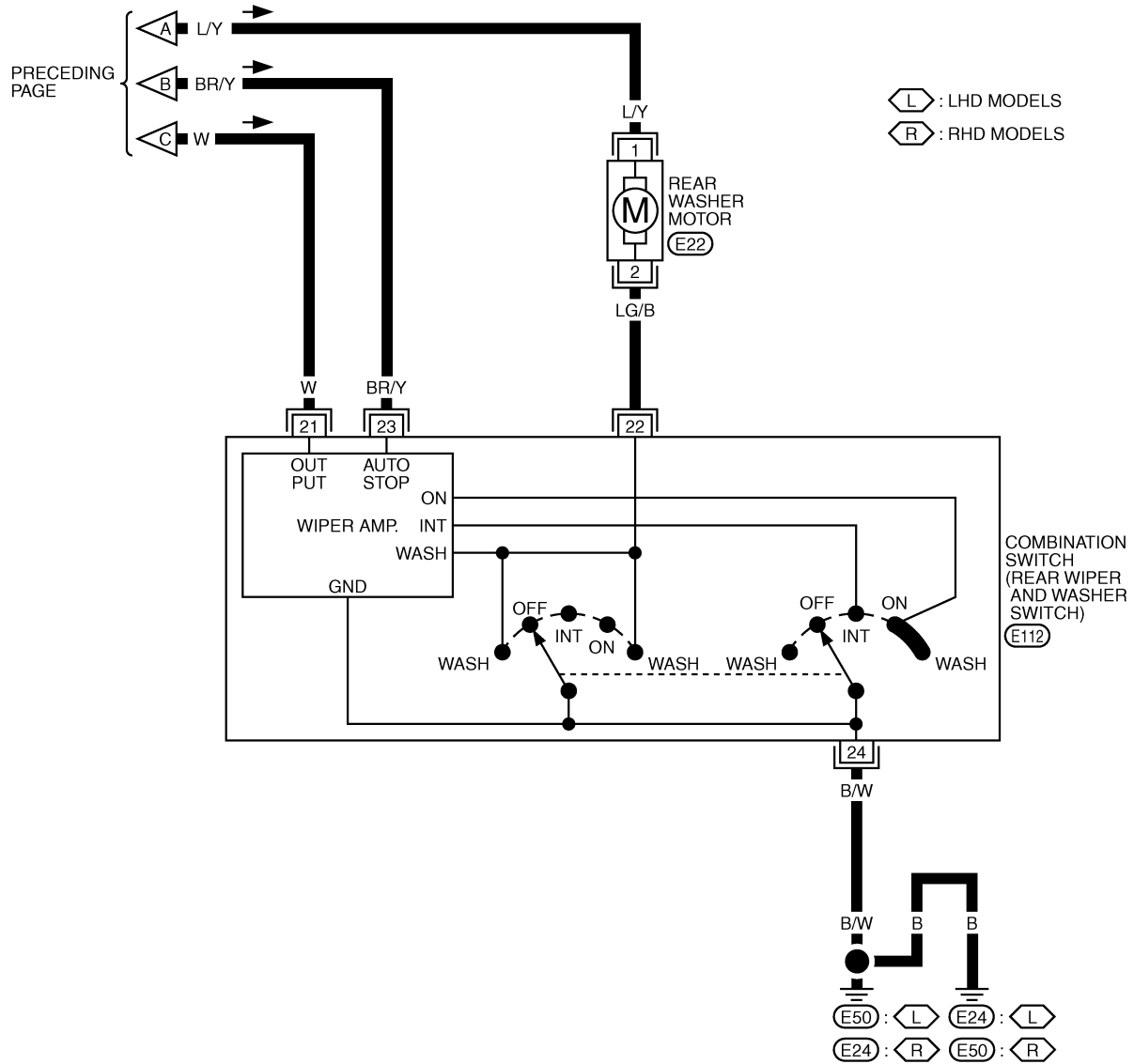
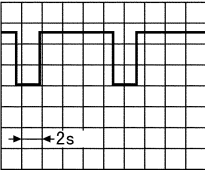


Diagram illustrating the mapping of a 2x2 grid to a 2x2 grid. The left grid has cells 1, 2, 2, 1. The right grid has cells 14, 21, 23, 24, 16, 17, 13, 15, 22. The mapping is labeled E22 and E112.

# REAR WIPER AND WASHER SYSTEM

## Terminal and Reference Values for Combination Switch

EKS00330

TERMINAL NO.	WIRE COLOR	ITEM	CONDITION			DATA(DC Voltage)
			IGNITION SWITCH	CONDITION OR OPERATION		
21	W	Wiper motor Operation signal (ON)	ON	Wiper switch	OFF	Battery voltage
					ON	Approx. 0V
22	LG/B	Washer switch signal	ON	Wiper switch	WASH	Approx. 0V
					OFF	Battery voltage
23	BR/Y	Wiper motor Operation signal	ON	Wiper switch: INT		<div><div><div>(V)</div><div>15</div><div>10</div><div>5</div><div>0</div></div><div></div><div>SKIA0083J</div></div>
24	B/W	Ground	OFF	—		—

## Removal and Installation for 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.

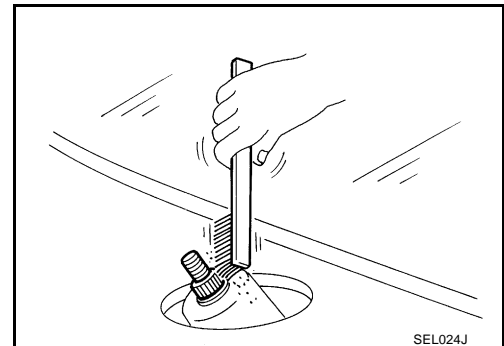
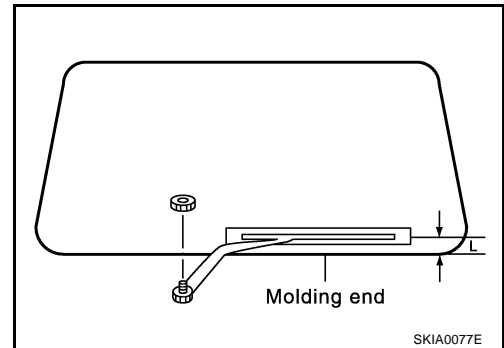
- Center to clearance "L".

"L" :  $63.1 \pm 7.5$  mm (2.484 $\pm$ 0.295 in)

- Tighten rear wiper arm nuts to specified torque.

 : 15.2 N-m (1.5 kg-m, 11 ft-lb)

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

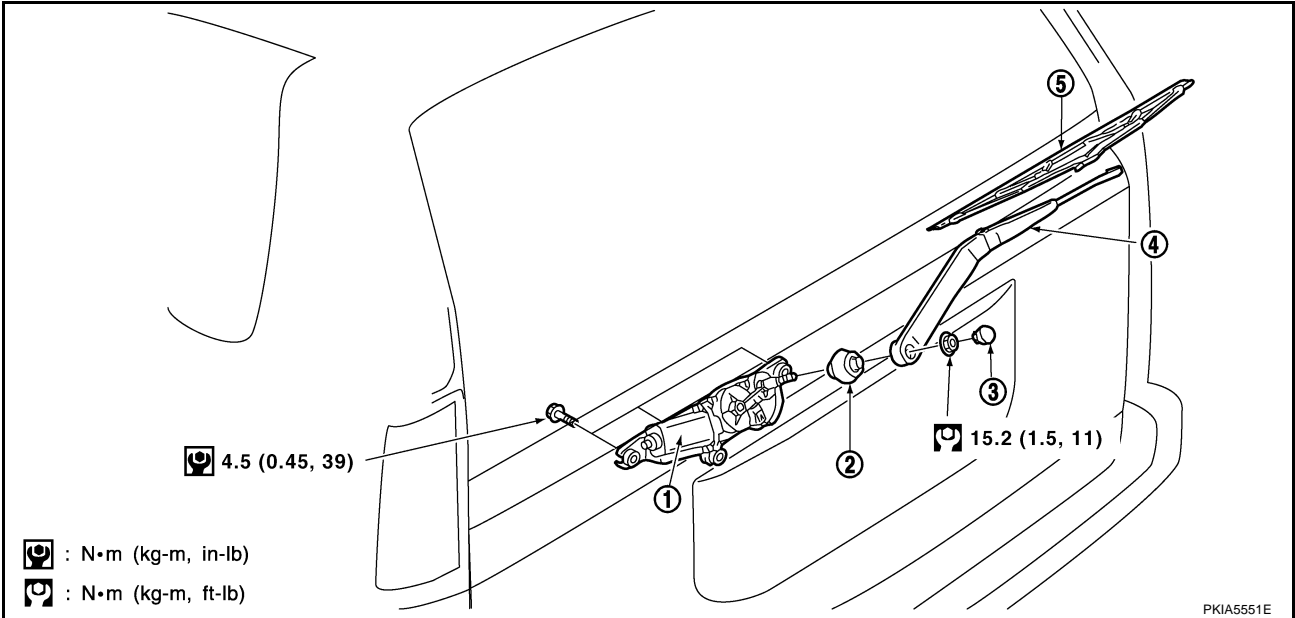




# REAR WIPER AND WASHER SYSTEM

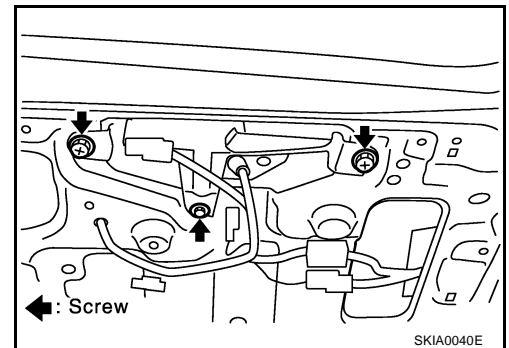
## Removal and Installation for Wiper Motor and Linkage

EKS00332



### REMOVAL

1. Remove the back door finisher. Refer to [EI-34, "BACK DOOR TRIM"](#).
2. Operate the wiper motor, and stop it at the auto stop position.
3. Disconnect wiper motor connector.
4. Remove wiper arm from the vehicle.
5. Remove wiper motor from the vehicle.
6. 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 wiper switch ON to operate wiper motor, then turn the wiper switch OFF (auto stop).
  4. Install wiper arm to the vehicle.
  5. Install back door finisher. Refer to [EI-34, "BACK DOOR TRIM"](#).
- Tighten rear wiper arm nuts to specified torque.

: 15.2 N-m (1.5 kg-m, 11 ft-lb)

- Tighten rear wiper motor nuts to specified torque.

: 4.5 N-m (0.45 kg-m, 39 in-lb)

### CAUTION:

- Do not 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.

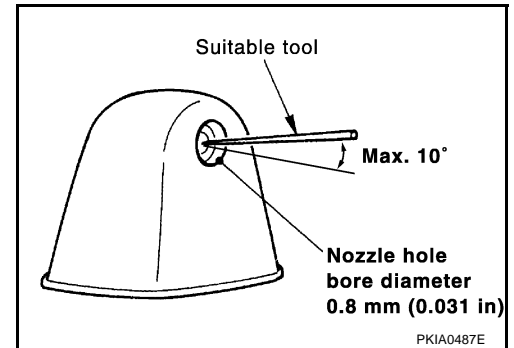
# REAR WIPER AND WASHER SYSTEM

## Washer Nozzle Adjustment

EKS00333

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

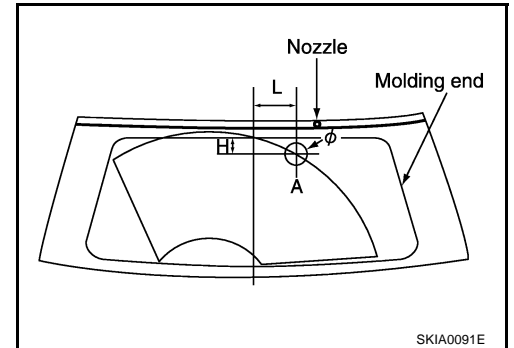
**Adjustable range :  $\pm 10^\circ$  (In any direction)**



Unit: mm (in)

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

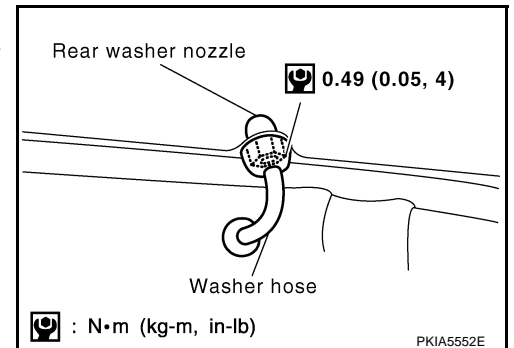
\*: The diameter of this circle is less than 40 mm ( 1.57in).



## Removal and Installation for Rear Washer Nozzle

EKS00334

- Remove washer hose from washer nozzle.
- Remove washer nozzle installation screw and remove washer nozzle.



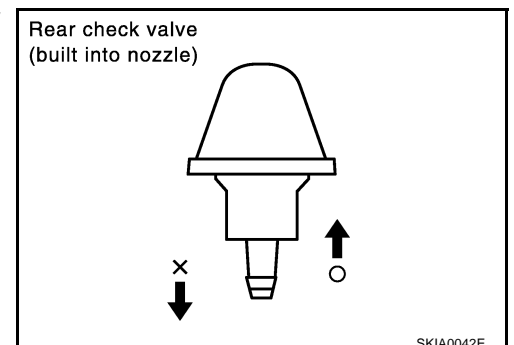
## INSTALLATION

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

## Inspection for Washer Nozzle CHECK VALVE

EKS00335

- 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 for Wiper and Washer Switch

EKS00336

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

### Removal and Installation for Washer Tank

EKS00337

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

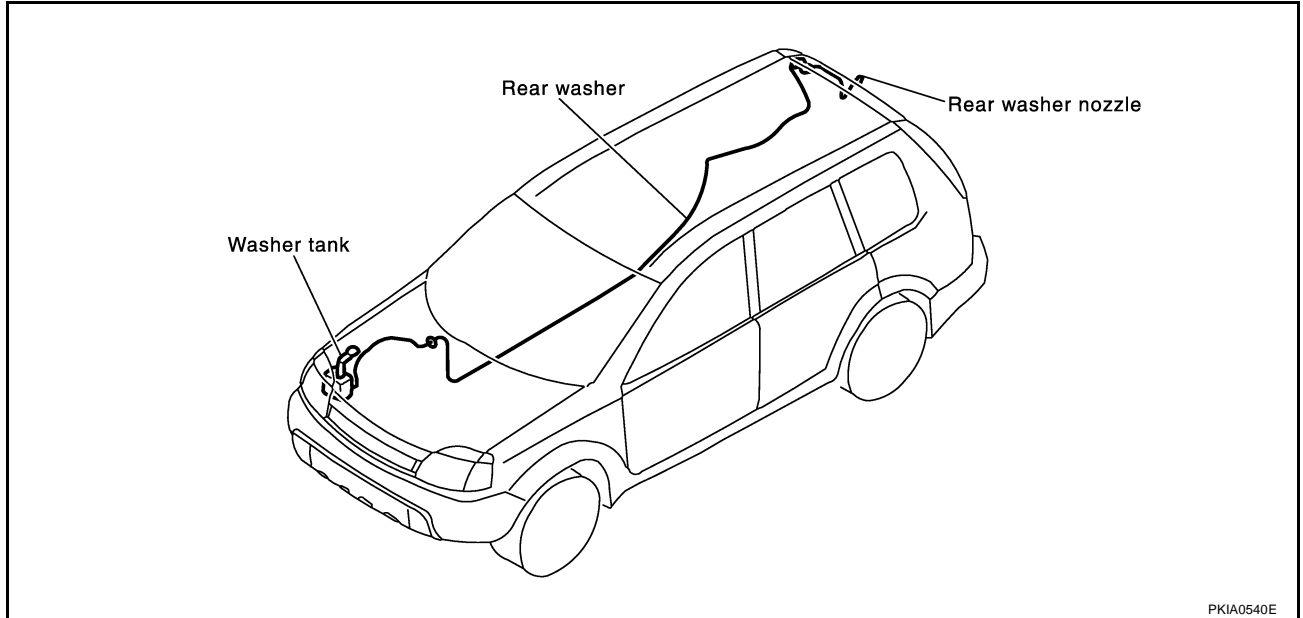
### Removal and Installation for Washer Pump

EKS00338

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

### Washer Tube Layout

EKS00339



PKIA0540E

A

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WW

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## 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, and
- through 10A fuse (No. 31, located in fuse and fusible link box)
- to lighting switch terminal 11.

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

- through 10A fuse [No. 11, 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

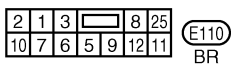
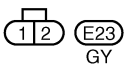
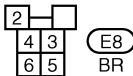
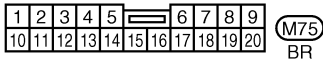
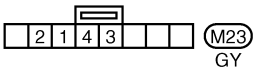
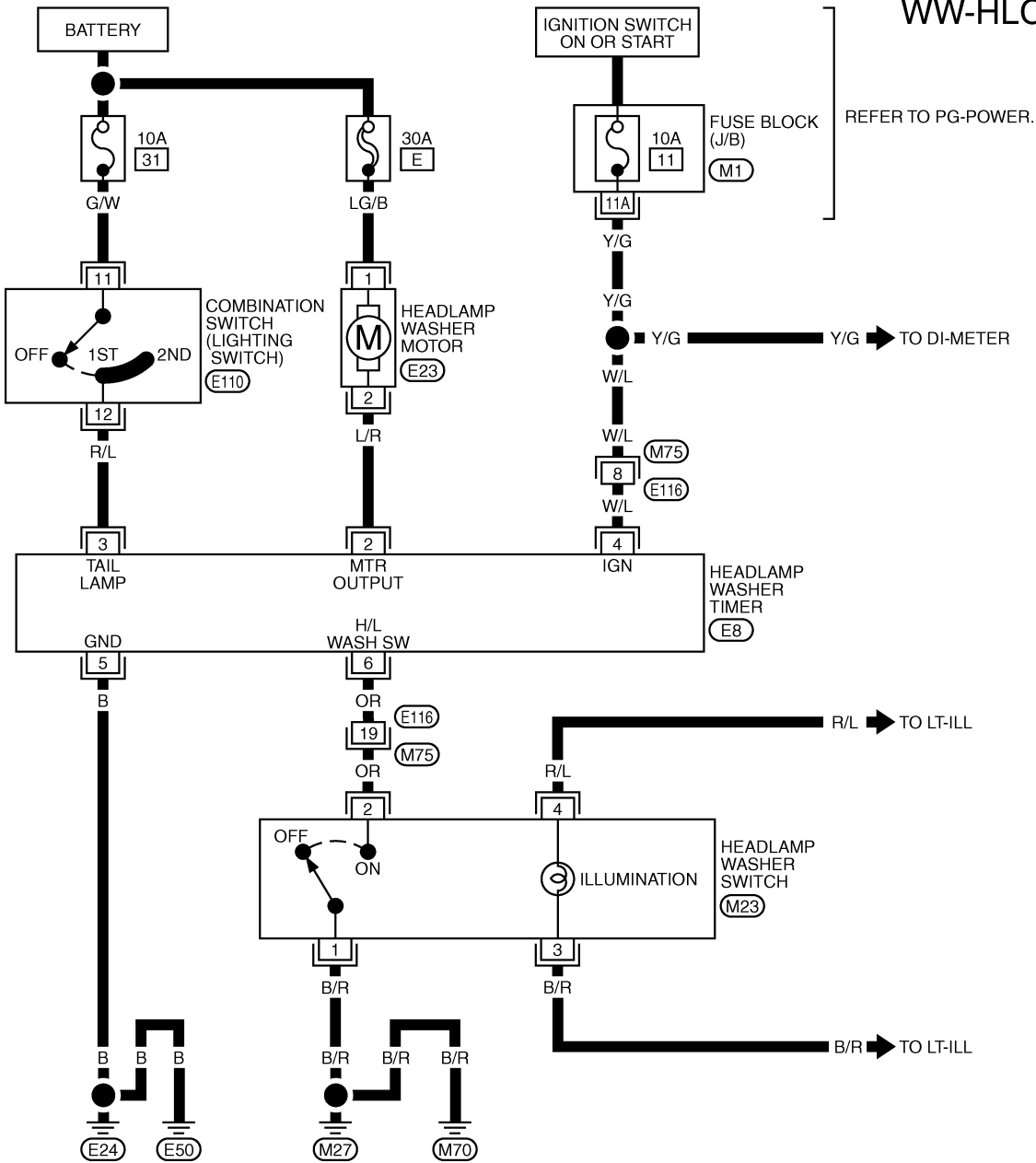
- to headlamp washer timer terminal 6
- through headlamp washer switch and grounds M27 and M70, and
- to headlamp washer motor terminal 2
- through headlamp washer timer terminal 2.

# HEADLAMP WASHER

## Wiring Diagram —HLC—

EKS00361

WW-HLC-01



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

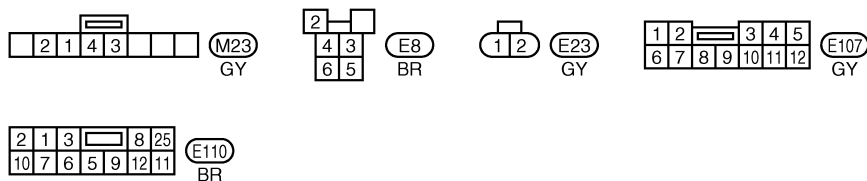
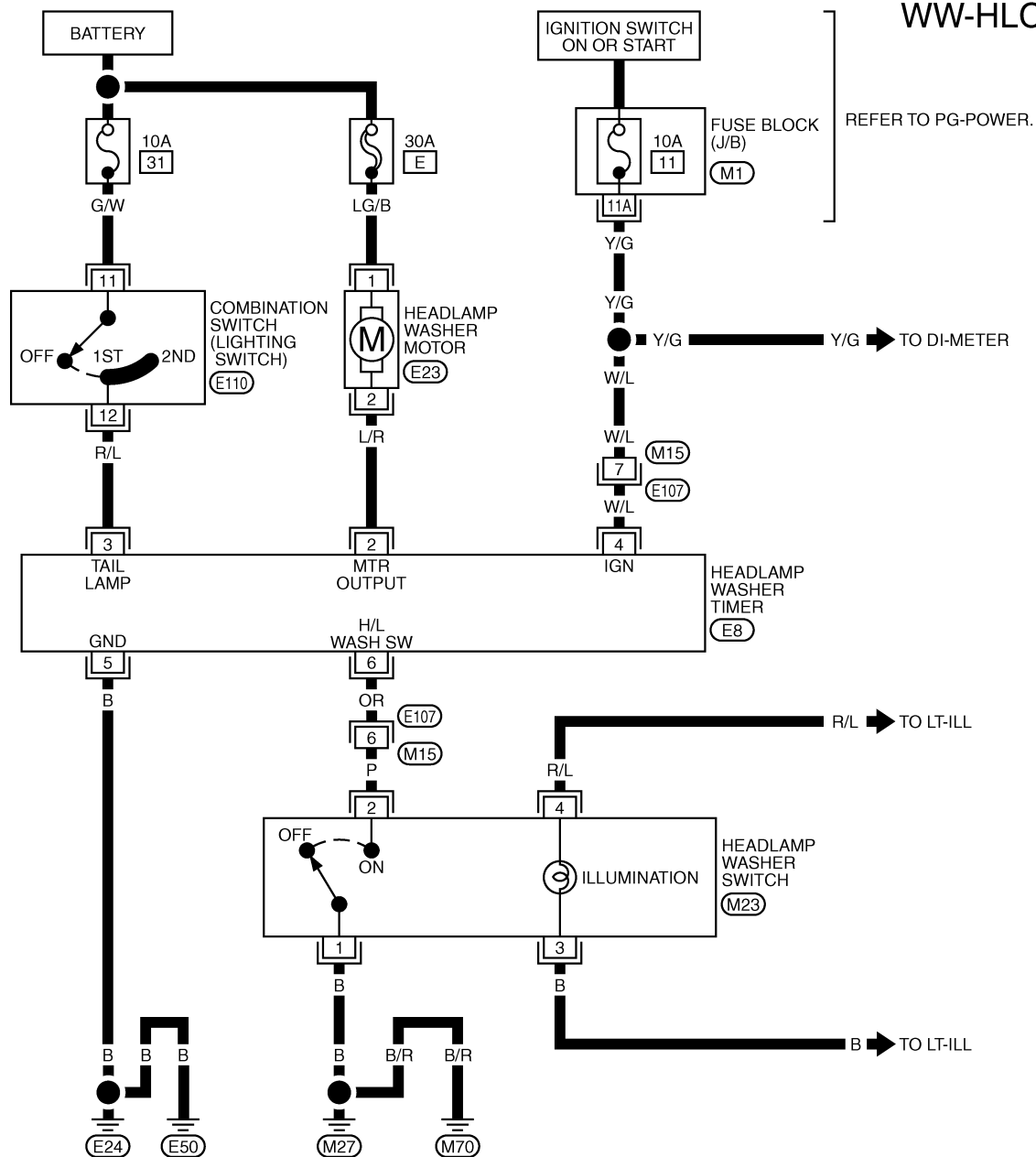
TKWA1558E

## HEADLAMP WASHER

## Wiring Diagram —HLC—/RHD models

EKS00ES9

WW-HLC-02



REFER TO THE FOLLOWING.

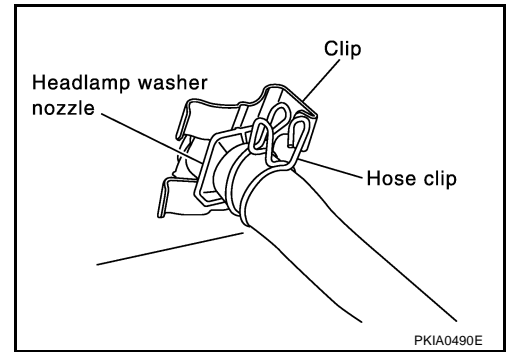
**(M1)** -FUSE BLOCK-JUNCTION  
BOX (J/B)

# HEADLAMP WASHER

## Removal and Installation for Washer Nozzle REMOVAL

EKS0036J

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



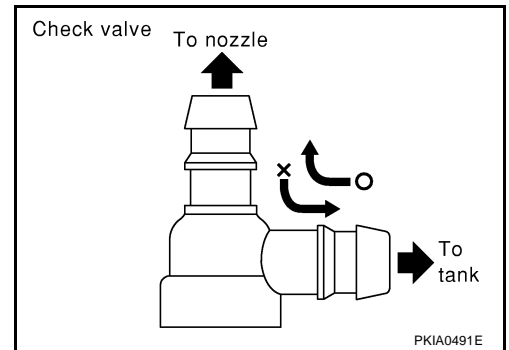
## INSTALLATION

Installation is in the reverse order of removal.

## Inspection for Washer Nozzle CHECK VALVE

EKS0036K

- 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 for Washer Tank

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

## Removal and Installation for Washer Pump

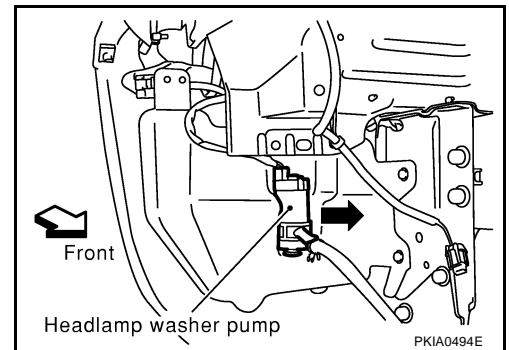
EKS0036L

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

### CAUTION:

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

EKS0036M



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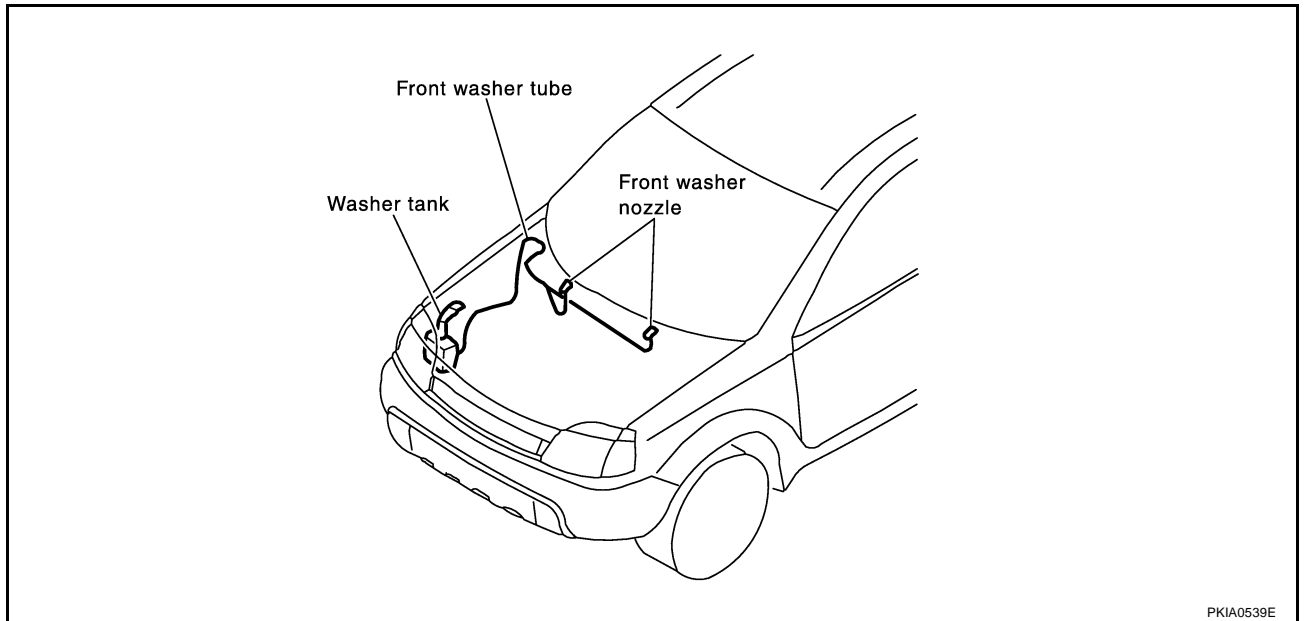
L

M

# HEADLAMP WASHER

## Washer Tube Layout

EKS0036N





# HORN

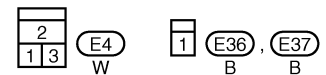
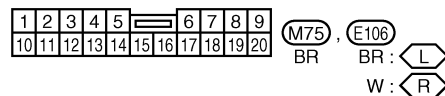
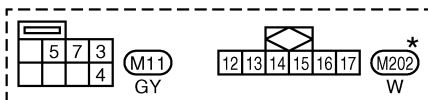
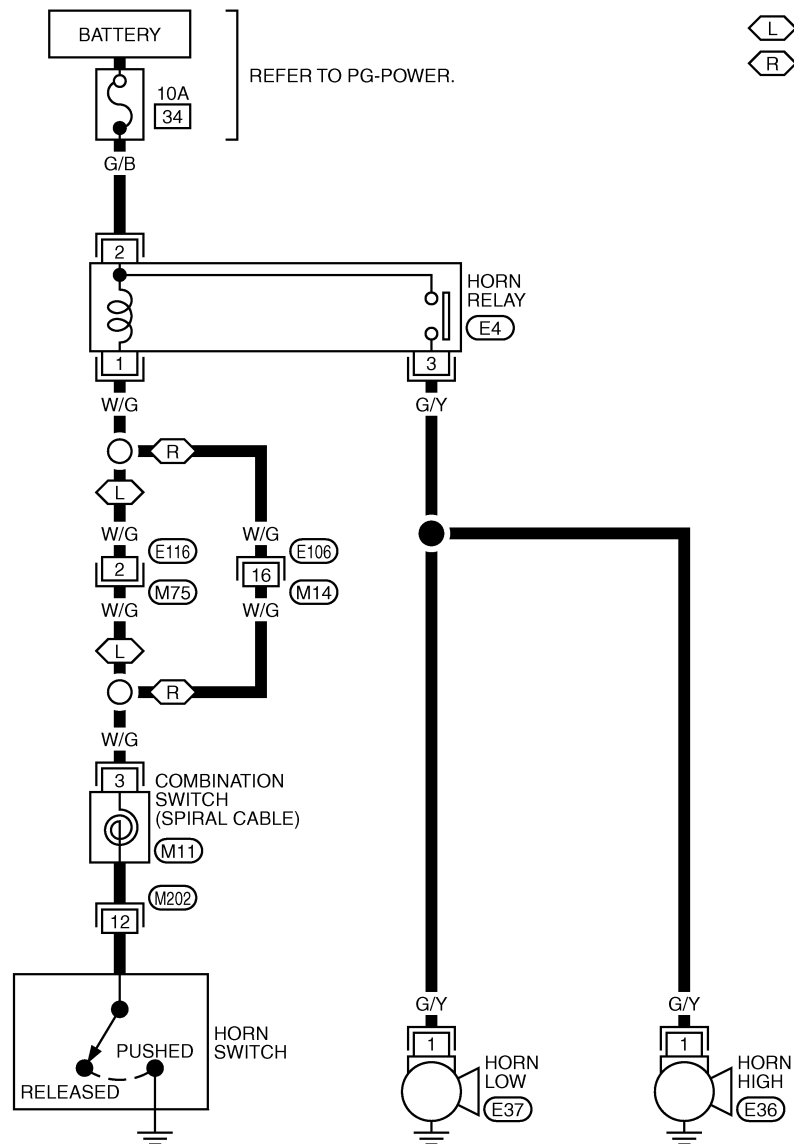
## HORN

PFP:25610

## Wiring Diagram — HORN —

EKS0033A

## WW-HORN-01



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

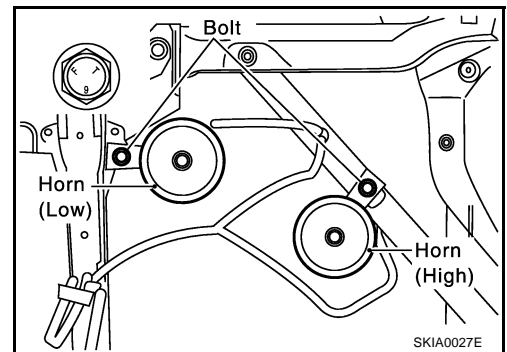
# HORN

## Removal and Installation

### REMOVAL

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

EKS0033B



### INSTALLATION

Tighten horn bolt to specified torque.

**Horn bolt : 17 N·m(1.7 kg-m, 12 ft-lb)**

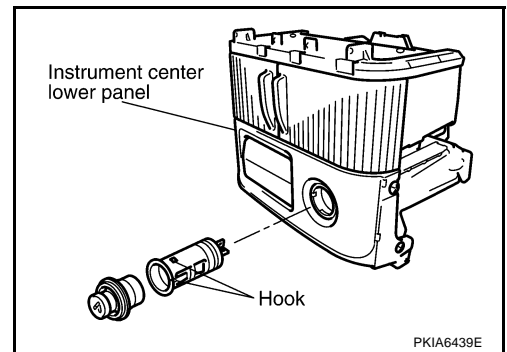


# CIGARETTE LIGHTER

## Removal and Installation

### REMOVAL

1. Remove instrument center lower panel, refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#).
2. Disconnect cigarette lighter and illumination lamp connector.



3. Pull out socket from instrument lower center panel.

### INSTALLATION

Install in the reverse order of removal aligning notches of cigarette lighter ring and instrument lower center panel.

# POWER SOCKET

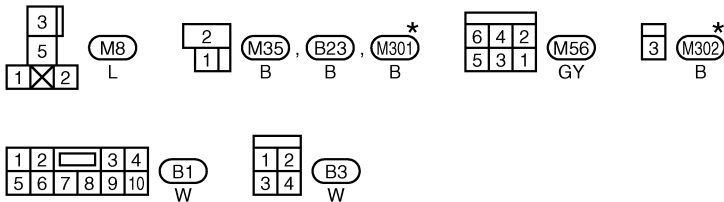
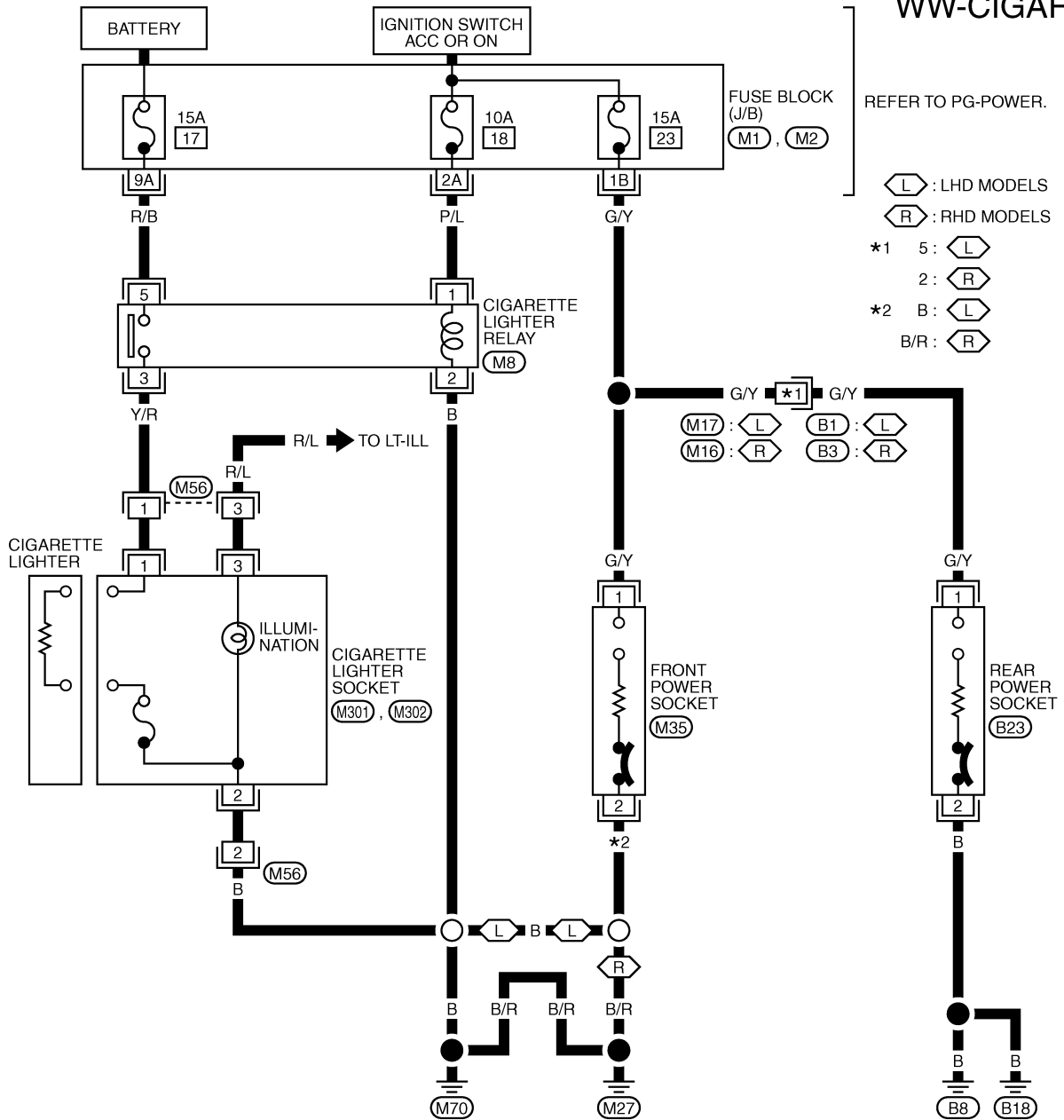
## POWER SOCKET

PFP:253A2

## Wiring Diagram —POWER SOCKET—

EKS0036E

### WW-CIGAR-01



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

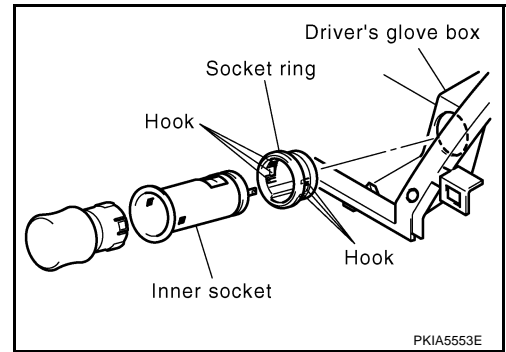
\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

# POWER SOCKET

## Removal and Installation for Front Power Socket REMOVAL

EKS0036F

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



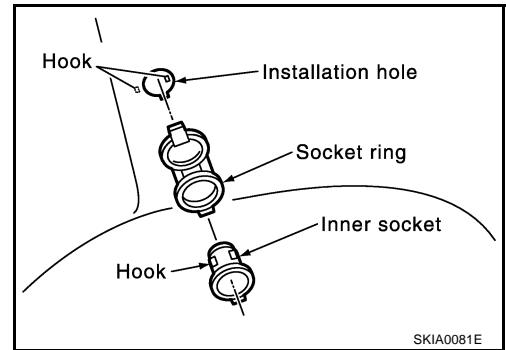
## INSTALLATION

Install in the reverse order of removal aligning notches of power socket and inner case.

## Removal and Installation for Rear Power Socket REMOVAL

EKS0036G

1. Remove luggage side lower finisher, refer to [EI-36, "LUGGAGE SIDE LOWER FINISHER"](#)
2. Disconnect power socket connector.
3. Pull out inner socket from luggage side lower finisher.



## INSTALLATION

Install in the reverse order of removal aligning notches of power socket and installation hole.