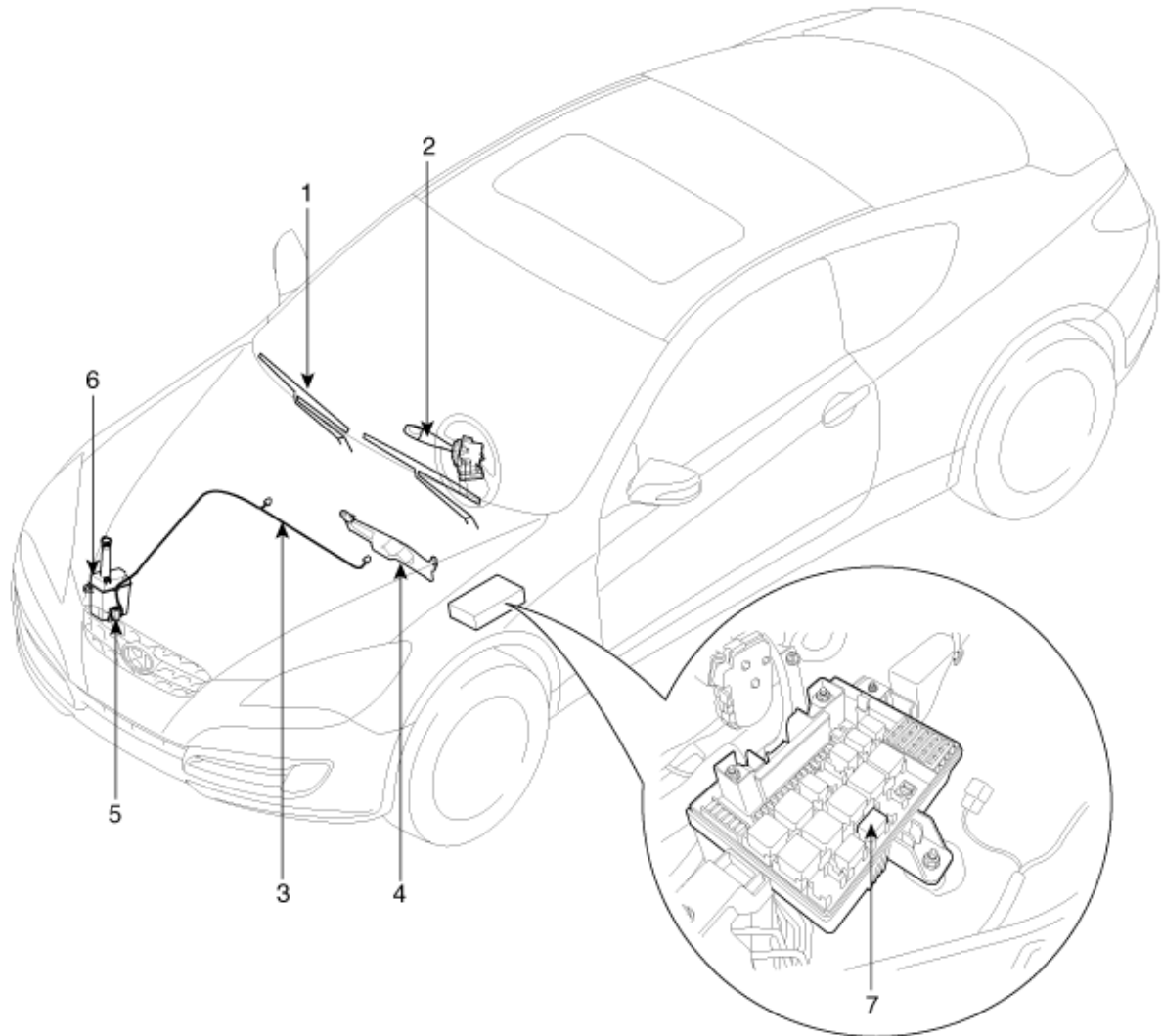


Component Location

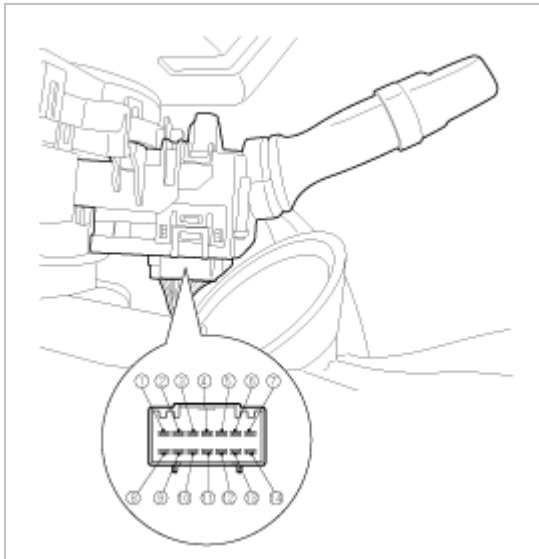


- 1. Windshield wiper arm & blade
- 2. Wiper & washer switch
- 3. Windshield washer hose
- 4. Windshield wiper motor & linkage

- 5. Washer motor
- 6. Washer reservoir
- 7. Wiper relay (Engine room relay box)

Inspection

Check for continuity between the terminals while operating the wiper and washer switch. If it is not normal condition, replace wiper and wiper switch.



Wiper Switch

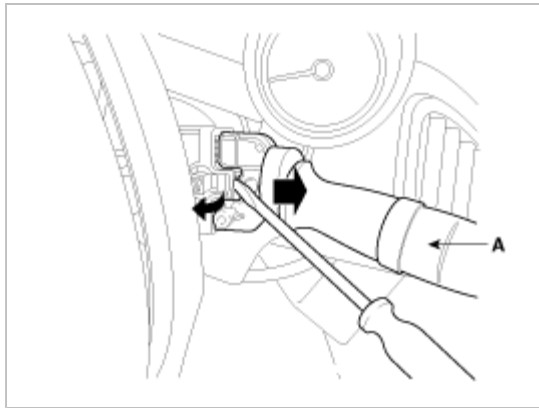
Terminal Position	3	9	2	8	10	1	4	5
MIST	○	—	○			○	—	○
OFF	○	—	○					
INT	○	—	○	○	—		○	—
LOW	○	—	—	—	○			
HI		○	—	—	○			

Washer Switch

Terminal Position	10	11
OFF		
ON	○	—

Removal

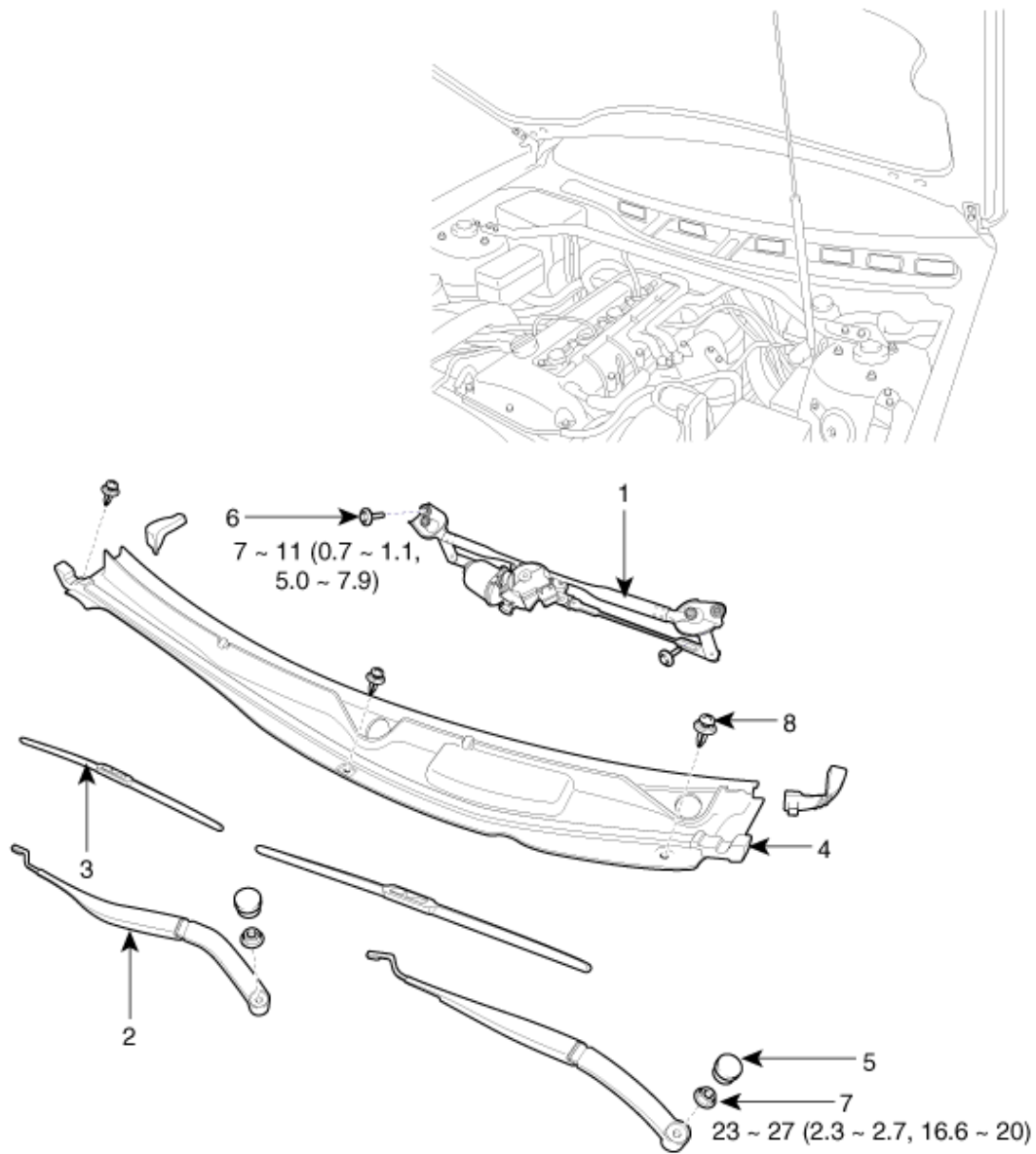
1. Remove the steering column upper and lower shrouds after removing 3 screws.
2. Remove the wiper switch(A) by releasing the part.



Installation

1. Install the wiper switch.
2. Install the steering column upper and lower shrouds.

Component Location



Torque : Nm(kgf.m, lbf.ft)

- 1. Wiper motor & linkage assembly
- 2. Wiper arm
- 3. Wiper blade
- 4. Cowl top cover

- 5. Cap
- 6. Bolt
- 7. Nut
- 8. Rivet

Inspection

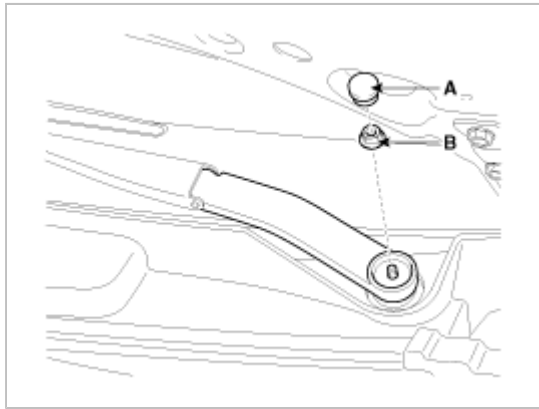
Speed Operation Check

1. Remove the connector from the wiper motor.
2. Attach the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 2.
3. Check that the motor operates properly.

Terminal Position	4	5	3	1
OFF	○	○	○	○
LOW		○	○	○
HIGH		○	○	

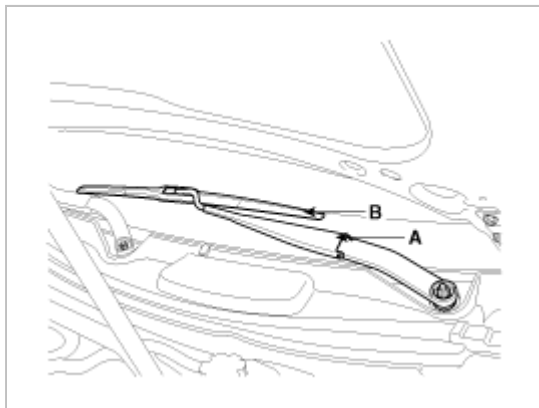
Removal

1. Remove the wiper arm mounting nut(B) after removing the wiper cap(A).

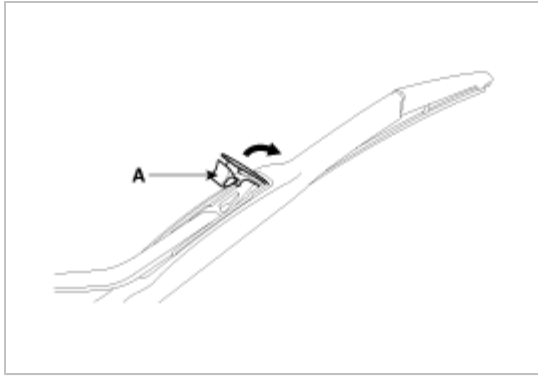


2. Remove the windshield wiper arm(A) and blade(B).

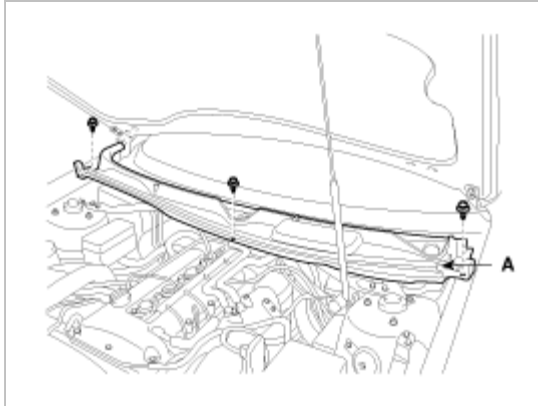
Torque : 23~27 Nm (2.3~2.7 kgf.m, 16.6~20 lbf.ft)



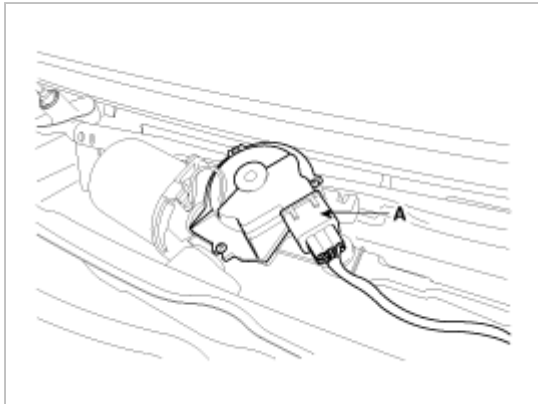
3. If necessary of removing the wiper blade, push in the bottom of the wiper blade clip(A) and remove the wiper blade from the inside radius of the wiper arm.



4. Remove the weather strip then remove the cowl top cover(A) after removing 3 rivets.

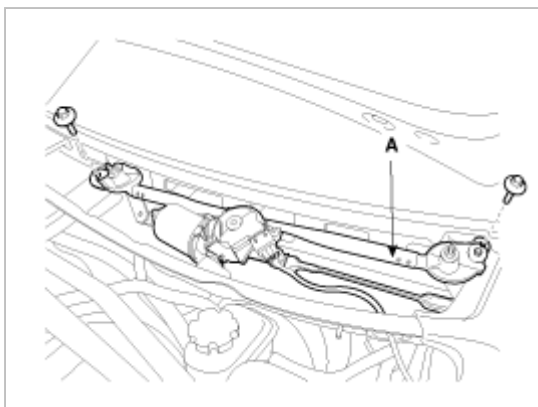


5. Disconnect the wiper motor connector(A).



6. Remove the windshield wiper motor and linkage assembly(A) after removing 2 bolts.

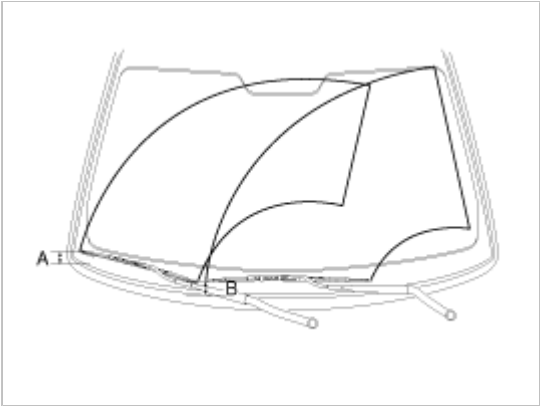
Torque : 7-11Nm (0.7-1.1, kgf.m, 5.0-7.9 lbf.ft)



Installation

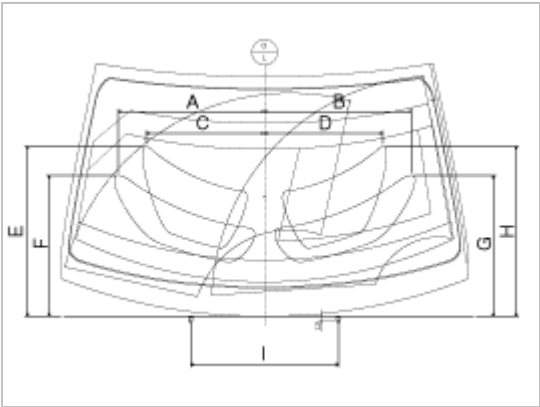
1. Install the wiper arm and blade to the specified position.

Specified position	A	B
Distance [in (mm)]	1.49 ± 0.2 (38 ± 5)	1.97 ± 0.2 (50.1 ± 5)



2. Set the washer nozzle on the specified spray position.

Specified position	Distance [in (mm)]
A	21.1 (535)
B	21.1 (535)
C	17.0 (432)
D	17.0 (432)
E	24.4 (620)
F	20.3 (515)
G	20.3 (515)
H	24.4 (620)
I	21.3 (540)



Inspection

1. With the washer motor connected to the reservoir tank, fill the reservoir tank with water.

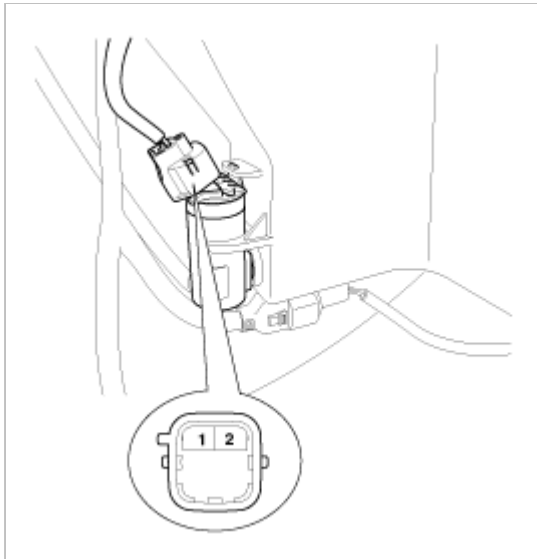
NOTE

Before filling the reservoir tank with water, check the filter for foreign material or contamination. if necessary, clean the filter.

2. Connect positive (+) battery cables to terminal 1 and negative (-) battery cables to terminal 2 respectively.
3. Check that the motor operates normally and the washer motor runs and water sprays from the front nozzles.
4. If they are abnormal, replace the washer motor.

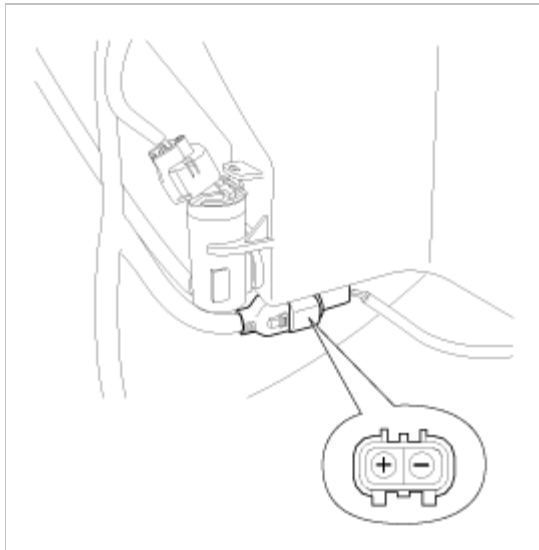
Connector No.1 : Windshield washer(+),

2 : Ground



Washer Fluid Level Sensor Switch

1. Disconnect the negative(-) battery terminal.
2. Drain the washer fluid less than 650 cc.
3. Check for continuity between the No. 1 and No.2 terminal in each float position.
There should be continuity when the float is down.
There should be no continuity when the float is up.
4. If the continuity is not as specified, replace the washer fluid level switch



Terminal Position	1	2
Over 650cc		
Under 650cc	○	○

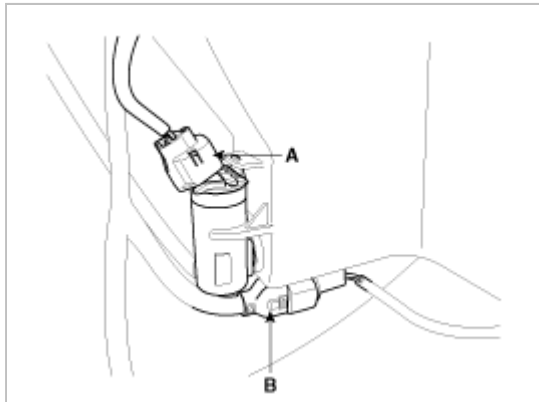
(Tolerance : -50cc ~ +100cc)

Removal

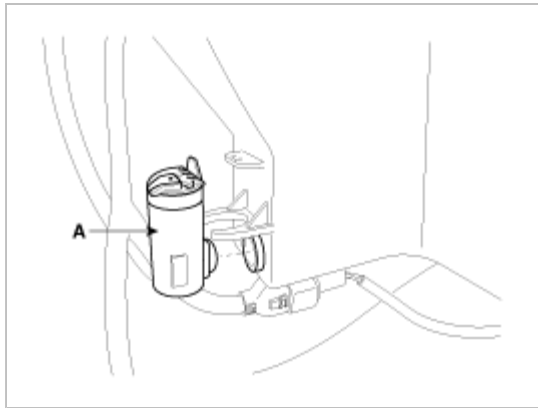
CAUTION

- When servicing the washer pump, be careful not to damage the washer pump seal.
- Do not operate the washer pump before filling the washer reservoir.
Failure to do so could result in premature pump failure.

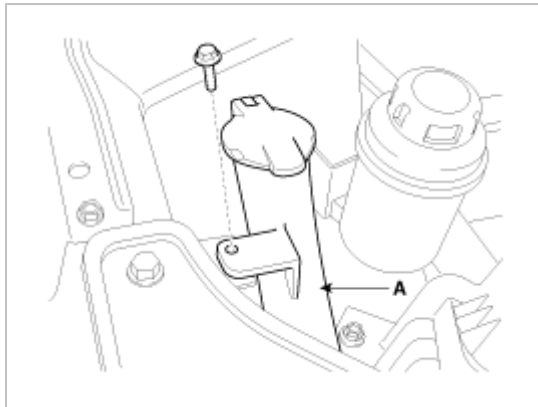
1. Disconnect the negative (-) battery terminal.
2. Remove the front bumper.
(Refer to BD group - "Front bumper")
3. Remove the washer hose and disconnect the washer motor connector(A) and level sensor connector(B).



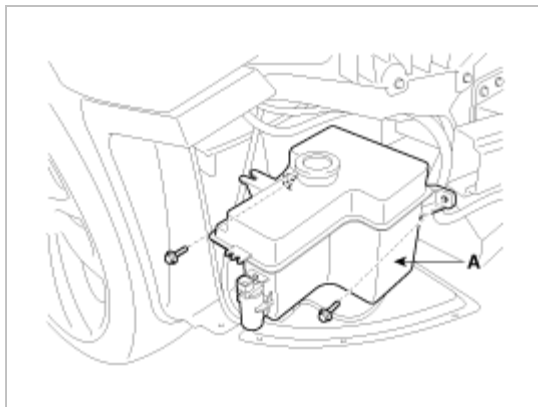
4. Remove the washer motor(A).



5. Remove the funnel part(A) of reservoir after loosening the mounting bolt(1EA).



6. Remove the washer reservoir (A) after removing 2 bolts.



Installation

1. Install the washer reservoir.

NOTE

Before installing the pump motor, check the filter for foreign material or contamination. if necessary, clean the filter into the pump motor.

2. Install the funnel.
3. Install the washer motor.
4. Install the washer hose.
5. Connect the washer motor connector and level sensor connector.
6. Install the front bumper.