

WINDSHIELD WIPER KIT



P/N 2883974; 2638912; 2889146

BEFORE YOU BEGIN

Before beginning assembly, inspect the kit and its component(s) to be sure all parts and tools are accounted for and not damaged. If missing parts or parts are damaged, please contact your Selling Dealer for assistance.

If your accessory was purchased online, please contact POLARIS customer service at **1-800-POLARIS** (US & Canada only).

APPLICATION

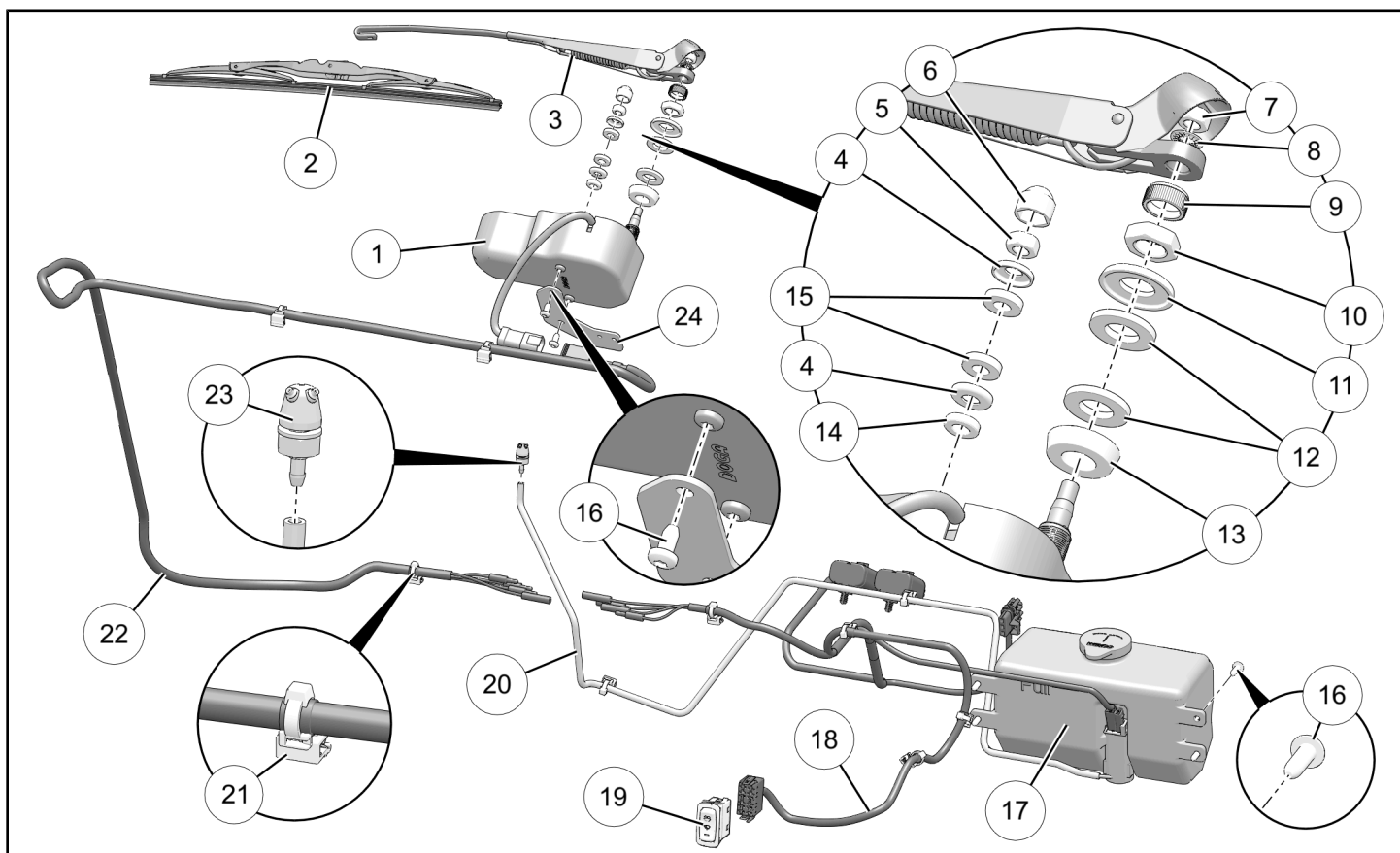
Verify accessory fitment at www.polaris.com.

REQUIRED SOLD SEPARATELY

Only parts for installation of the Windshield Wiper Kit are included. Prior installation of the following additional kits is also required (sold separately):

1. One of the following windshield kits:
 - Glass Lock & Ride® Windshield Kit, PN 2882191
 - Glass Tip-Out Windshield Kit, PN 2882874
 - Full Glass Windshield Kit, P/N 2891680
 - Other compatible windshield kit
2. One of the following roof kits:
 - Premium Roof Kit, PN 2882912 (black) or 2882913 (camo)
 - Poly Roof Kit, PN 2882911
 - Other compatible roof kit

KIT CONTENTS



REF	QTY	PART DESCRIPTION	PART NUMBER	INCLUDED IN SERVICE KIT
1	1	Motor Assembly	2637637	n/a
2	1	Blade, Wiper	2637635	n/a
3	1	Arm, Wiper	2637636	n/a
4	2	Washer, Plastic, Cupped, Small	n/a	2208226
5	1	Nut, Hex (M6 x 1.25)	n/a	2208226
6	1	Cap	n/a	2208226
7	1	Nut, Hex M8	n/a	2208225
8	1	Washer, Internal Tooth Lock	n/a	2208225
9	1	Cap	n/a	2208225
10	1	Nut, Hex (M16 X 1.0)	n/a	2208225
11	1	Washer, Plastic, Cupped, Large	n/a	2208225
12	2	Washer, Rubber, Flat	n/a	2208225
13	1	Spacer, Support	n/a	2208225
14	1	Bushing	n/a	2208226
15	2	Washer, Plastic, Flat	n/a	2208226
16	6	Screw, Torx® Truss Head, High/Low #14 X 3/4	7519045	n/a

REF	QTY	PART DESCRIPTION	PART NUMBER	INCLUDED IN SERVICE KIT
17	1	Bottle Assembly, Washer (includes pump, pump grommet, and bottle cap)	n/a	2205139
18	1	Harness, Power	2414864	n/a
19	1	Switch, Wiper/Washer	4018701	n/a
20	1	Hose, Washer Bottle	5417098	n/a
21	9	Clip, Edge	7082365	n/a
22	1	Harness, ROPS	2414865	n/a
23	1	Nozzle Assembly (includes nut and washer)	2637660	n/a
24	1	Bracket, Rear View Mirror Accessory	5268630-458	n/a
25	4	Cable Tie (not shown)	7080492	n/a

TOOLS REQUIRED

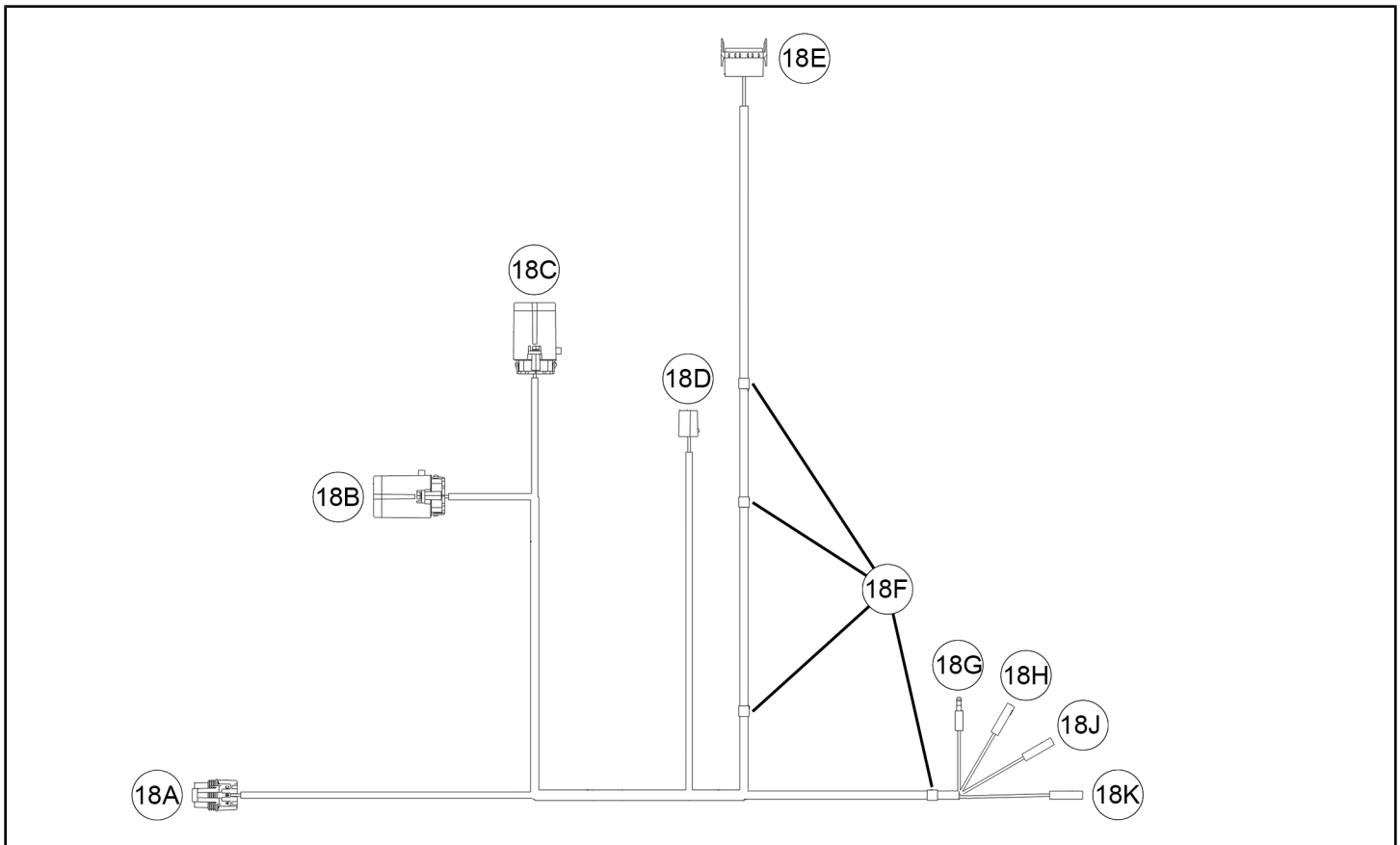
- Safety Glasses
- Drill
- Drill Bit: 9/32 inch (7 mm), 5/16 inch (8 mm), 3/4 inch (19 mm)
- Pliers, Push Pin Rivet
- Screwdriver Set, Torx®
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

IMPORTANT

Your Windshield Wiper Kit is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

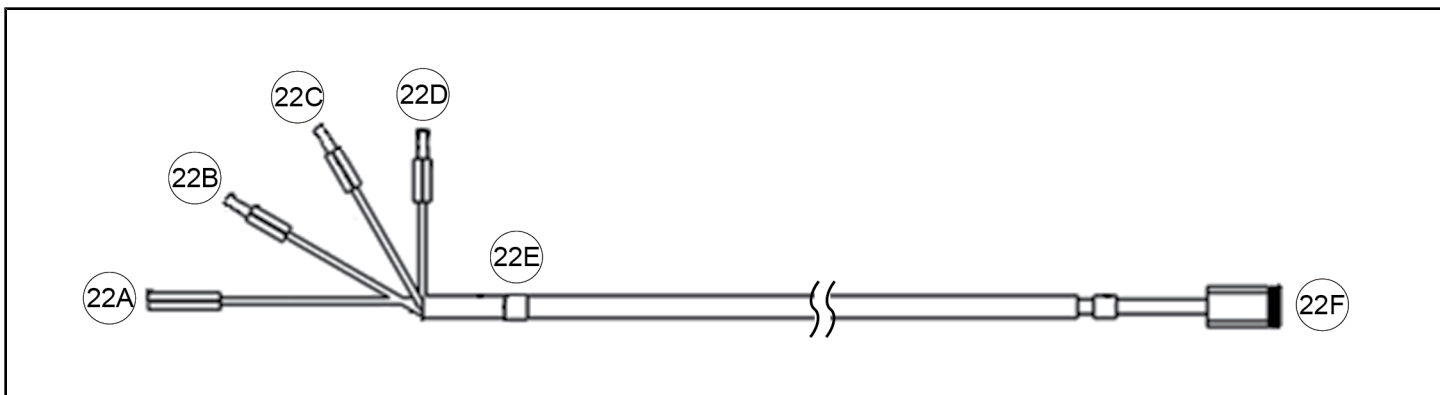
HARNESS DETAIL

POWER HARNESS :



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
18A	Connector, Terminal Block	-	3 female	Pulse™ terminal block
18B	Relay/Circuit Breaker, Switched Power	-	-	Vehicle structure
18C	Relay, Park	-	-	Vehicle structure
18D	Connector, Fluid Pump	-	2 female	Washer bottle assembly ⑰
18E	Connector, Switch	-	12 female	Switch ⑲
18F	Tape, White (4 locations)	-	-	Identifies installation location for edge clip ⑳
18G	Connector, Bullet, Wiper Motor, Ground	Black	1 male	ROPS harness ㉔, connector 22A
18H	Connector, Bullet, Wiper Motor, Operation	Red	1 female	ROPS harness ㉔, connector 22B
18J	Connector, Bullet, Wiper Motor, Park	Green	1 female	ROPS harness ㉔, connector 22C
18K	Connector, Bullet, Wiper Motor, B+ Switched	Yellow	1 female	ROPS harness ㉔, connector 22D

ROPS HARNESS ㉔:



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
22A	Connector, Bullet, Wiper Motor, Ground	Black	1 female	Power harness ⑱, connector 18G
22B	Connector, Bullet, Wiper Motor, Operation	Red	1 male	Power harness ⑱, connector 18H
22C	Connector, Bullet, Wiper Motor, Park	Green	1 male	Power harness ⑱, connector 18J
22D	Connector, Bullet, Wiper Motor, B+ Switched	Yellow	1 male	Power harness ⑱, connector 18K
22E	Tape, White Identification	-	-	Identifies installation location for edge clip ⑳
22F	Connector, Wiper Motor (identified as: WIPER)	-	4 female	Motor assembly ①

INSTALLATION INSTRUCTIONS

VEHICLE PREPARATION

GENERAL

1. Park vehicle on a flat surface.
2. Shift vehicle into PARK.
3. Turn key to OFF position and remove key.

BATTERY DISCONNECTION

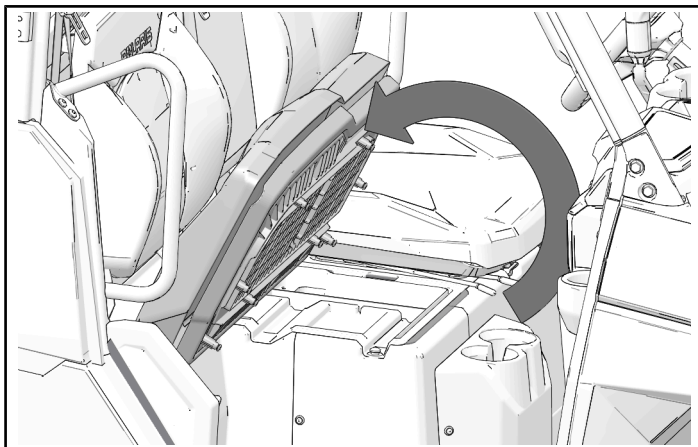
NOTICE

Ranger XP 1000 3-passenger: Battery is located under passenger seat. Ranger XP 1000 Crew: Battery is located under right rear seat.

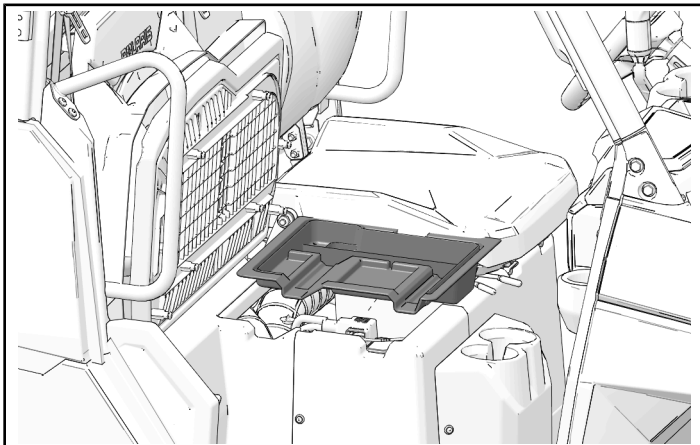
⚠ WARNING

Make sure red positive (+) battery terminal is **COMPLETELY COVERED** by protective boot. Accidental tool contact across both battery terminals will result in high current electrical arc, and may result in battery explosion. Death or serious injury may occur.

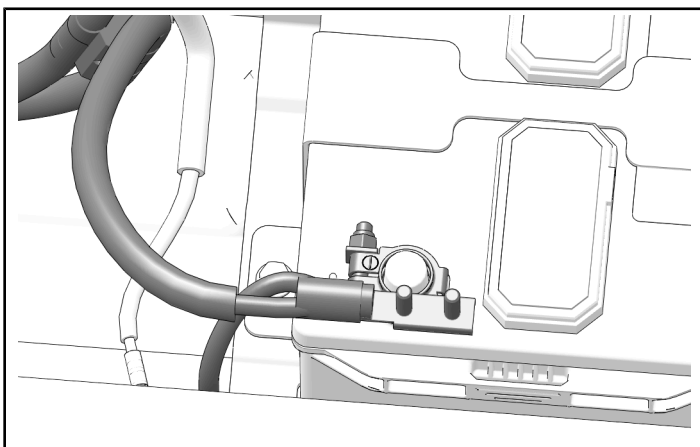
1. Lift up passenger seat.



2. Remove bin and set aside.

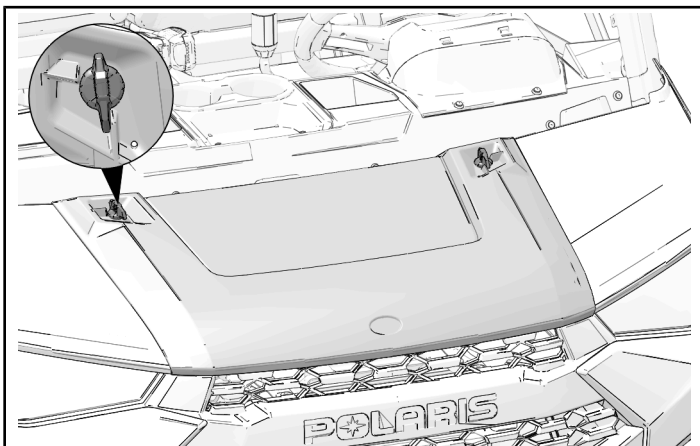


3. Loosen nut on negative (-) wire and remove wire from battery.



HOOD REMOVAL

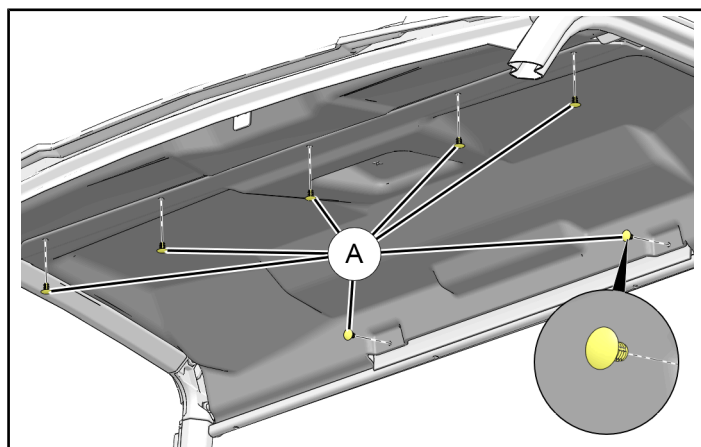
1. Turn two quarter-turn fasteners to unlock and remove hood from vehicle.



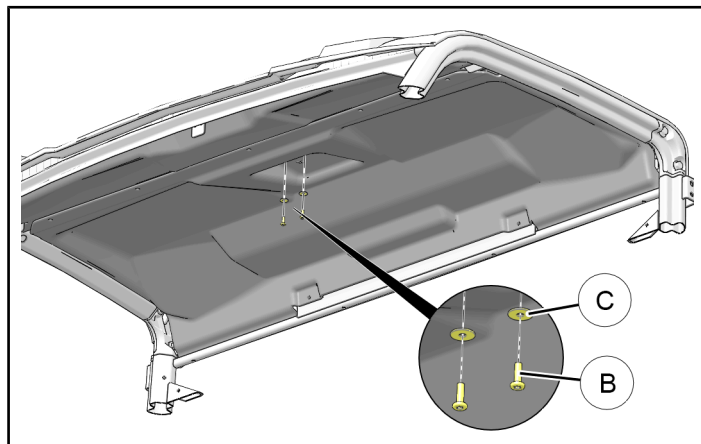
ROOF LINER REMOVAL

1. Remove rear (roof mounted) speakers, if installed.

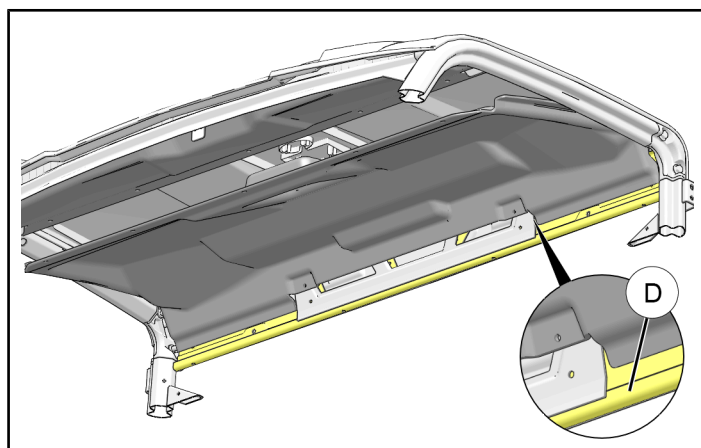
2. Remove and keep seven push darts (A) from rear liner, two from rear edge and five from front edge.



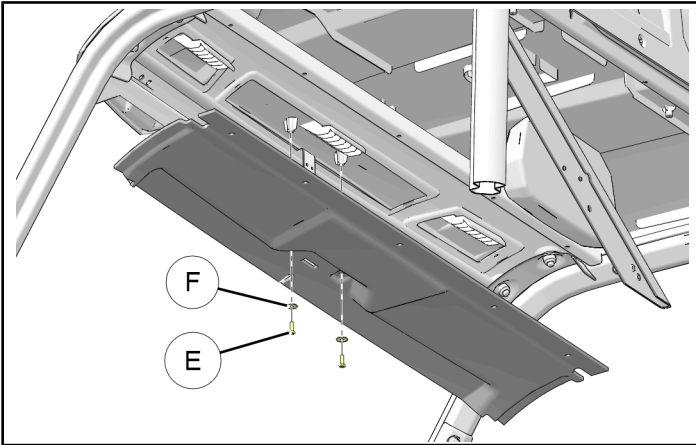
3. If light is installed against rear liner, remove it. Otherwise, remove and keep two each screws (B) and washers (C).



4. Carefully pull left and right edges of rear liner from between ROPS and roof seal, then remove rear edge of liner from roof support channel (D).

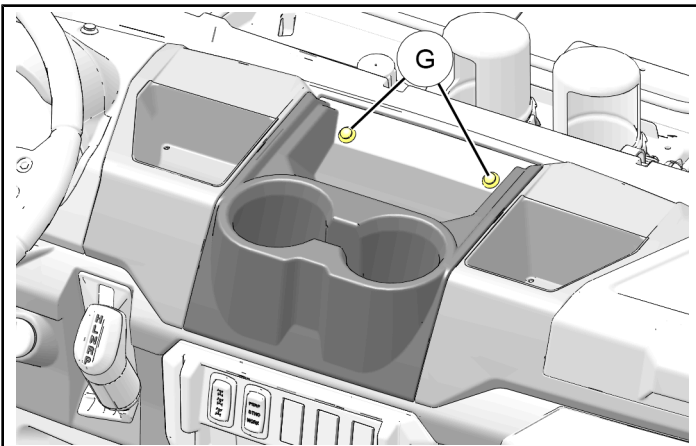


5. Remove front roof liner by removing two each screws (E) and washers (F). Keep hardware.

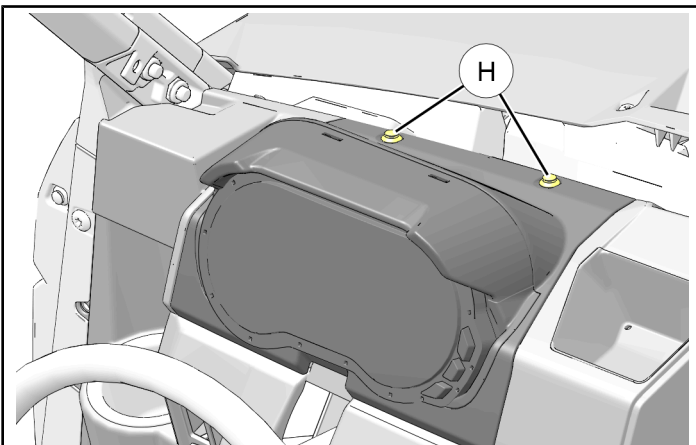


UPPER DASH REMOVAL – XP1000 AND PRO XD

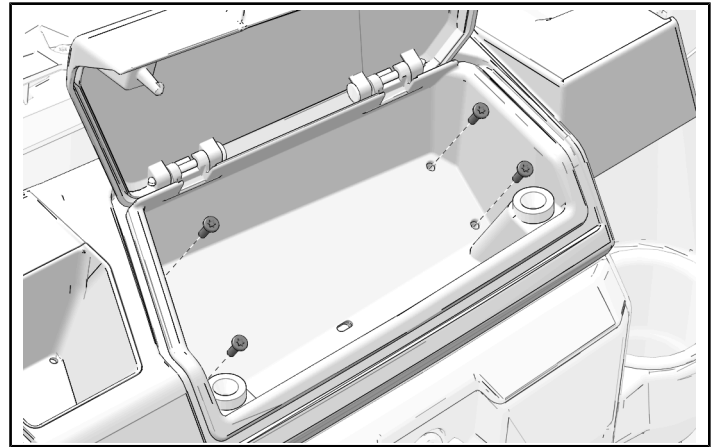
1. If windshield is installed, remove or open (as applicable) to gain access to upper dash.
2. Remove and keep two push-pin rivets (G) from cupholder, then pull cupholder rearward.



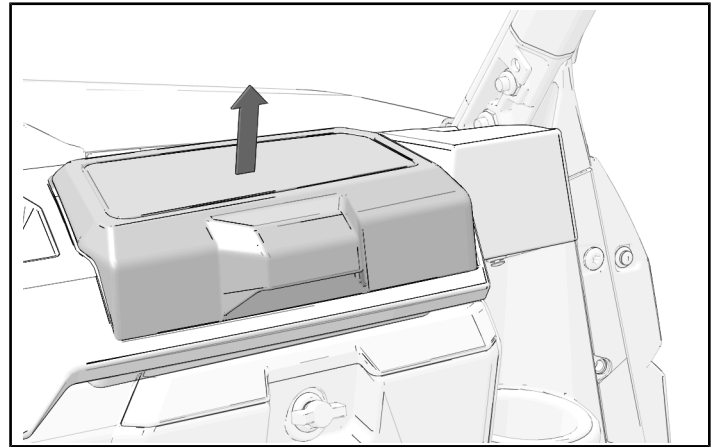
3. Tilt steering wheel to full down position. Detach instrument cluster hood by removing two push-pin rivets (H), then pull hood (with instrument cluster) rearward. Keep rivets.



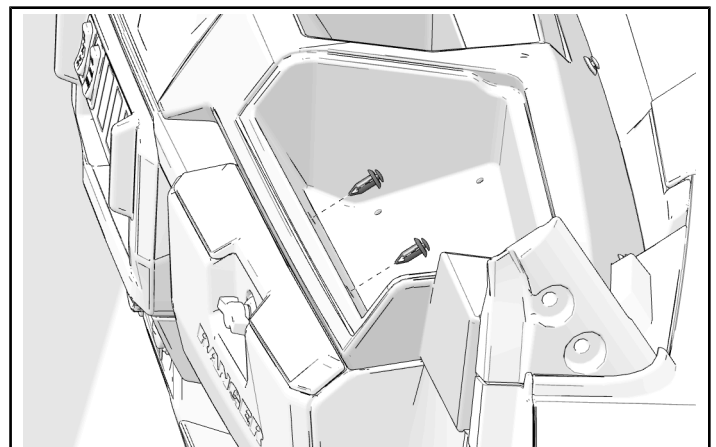
4. Disconnect instrument cluster wiring harness.
5. Open dashboard storage compartment.
6. Remove and keep four screws from inside storage compartment.



7. Remove dashboard storage compartment from dashboard and set aside.



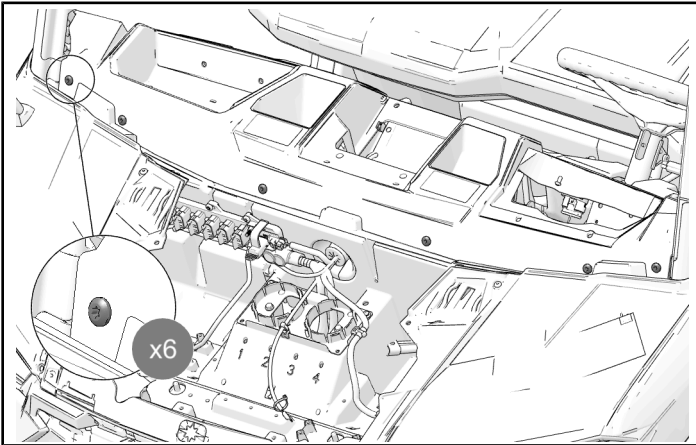
8. Remove and keep two push-pin rivets from storage compartment location on dashboard.



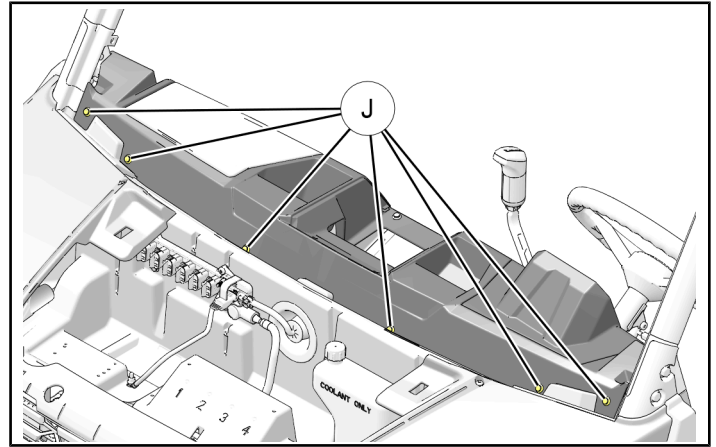
9. Remove and keep six screws from front of upper dash.

NOTICE

MY 2022 and older will have six push-pin rivets instead of six screws.



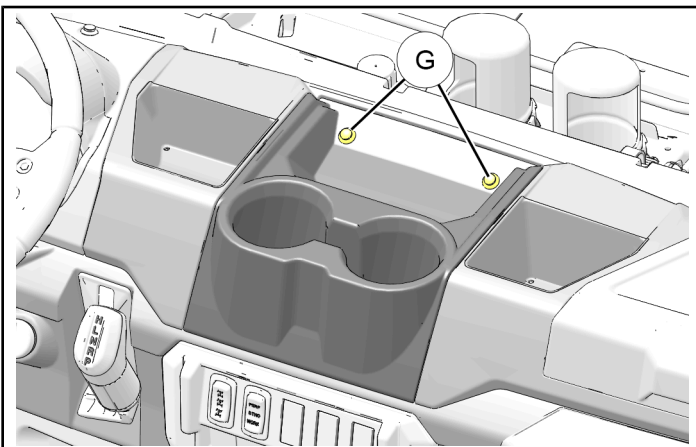
3. Remove and keep six push pin rivets ① along forward edge of dash.



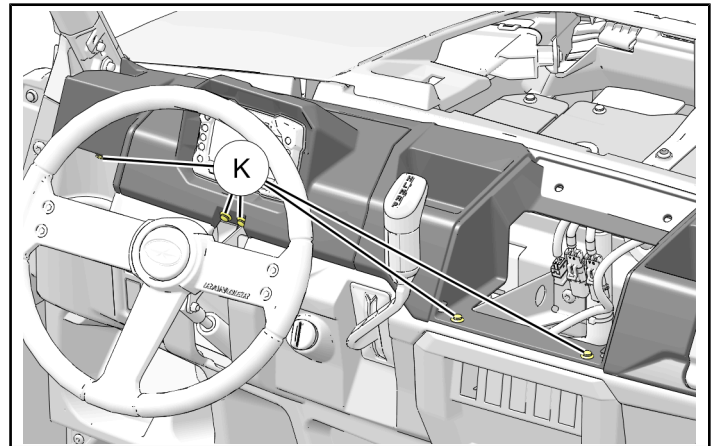
10. Remove upper dash from vehicle.
11. Disconnect harness and remove instrument gauge.

UPPER DASH REMOVAL – 1000 AND CREW 1000 VEHICLES

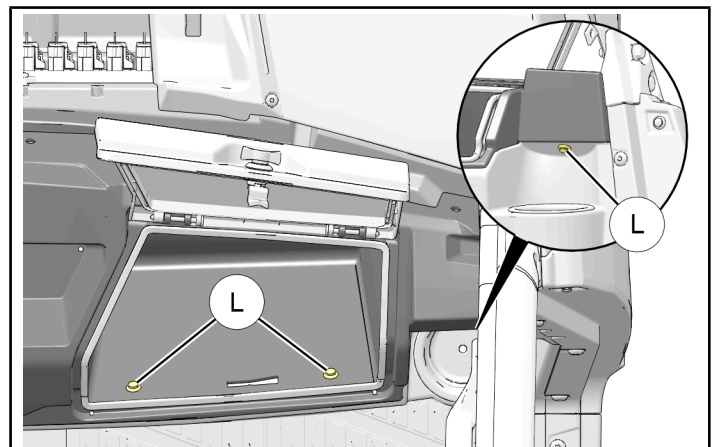
1. If windshield is installed, remove or open (as applicable) to gain access to upper dash.
2. Remove and keep two push pin rivets ⑥ from upper dash cupholder, then pull cupholder rearward.



4. Remove and keep five push pin rivets ⑦ from left side of dash: two at center cupholder, two below instrument cluster, and one on underside of dash above cupholder.



5. Open door to upper storage compartment. Remove and keep three push pin rivets ⑧ from right side of dash: two inside storage compartment and one on underside of dash above cupholder.



6. Remove upper dash from vehicle.
7. Disconnect harness and remove instrument gauge.

ACCESSORY INSTALLATION

WIPER ASSEMBLY INSTALLATION (ALL KITS EXCEPT P/N 2891680)

1. Using windshield attach plate (M) as template, drill two holes from inside of vehicle forward through plastic trim:

MEASUREMENT

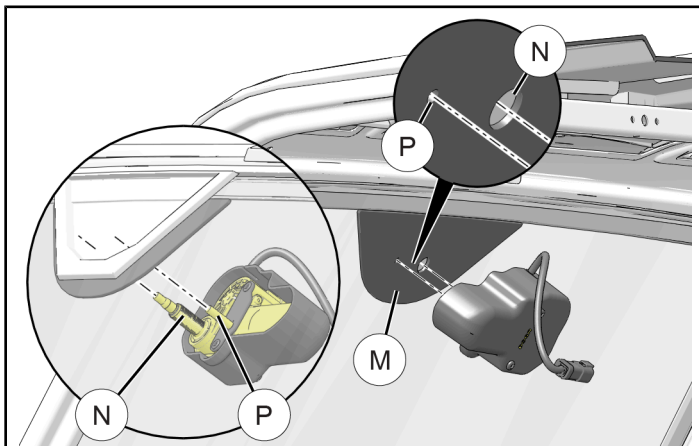
Wiper Motor Shaft (N)
Drill Bit Size:
3/4 in (19 mm)

MEASUREMENT

Anti-Rotation Stud (P)
Drill Bit Size:
9/32 in (7 mm)

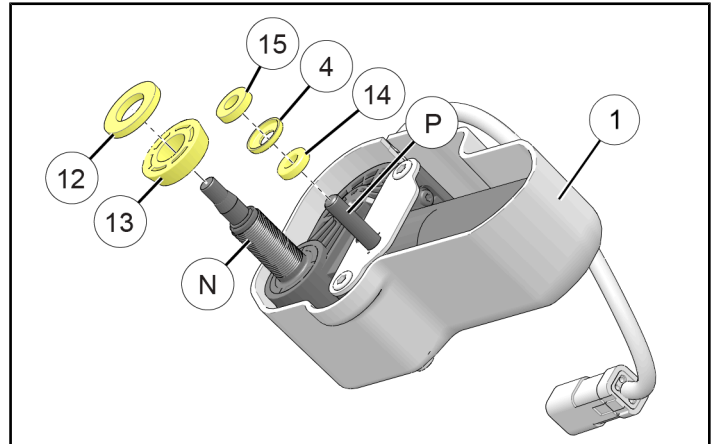
NOTICE

Holes in metal attach plate are not enlarged. Drill only through plastic trim.
Motor assembly shown for reference only.
Installation will occur in Step 3 below.



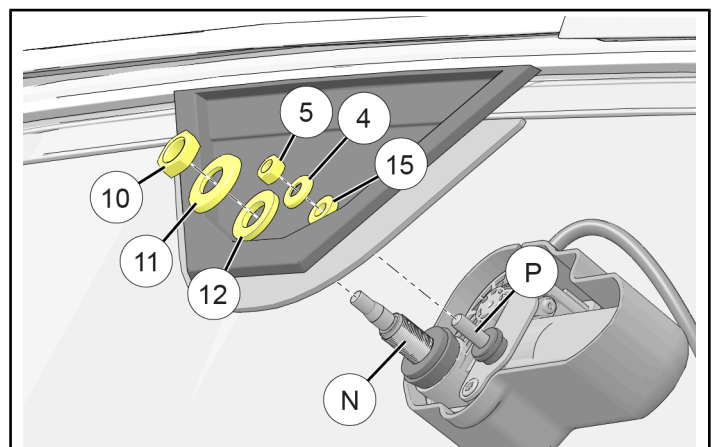
2. Install following items to motor assembly (1):

- **Wiper motor shaft (N):** spacer (13) and rubber washer (12). Make sure spacer is installed with SMALL outside diameter towards motor as shown (large outside diameter towards windshield).
- **Anti-rotation stud (P):** bushing (14), small cupped plastic washer (4), and flat plastic washer (15). Make sure flat washer (15) nests inside cupped washer (4) as shown.



3. Clean mating surfaces of windshield as needed. Install wiper motor shaft (N) and anti-rotation stud (P) through corresponding holes in attach plate and plastic trim. Attach as follows:

- **Wiper motor shaft (N):** rubber washer (12), large cupped plastic washer (11), and nut (10). Make sure rubber washer (12) nests inside cupped washer (11) as shown.
- **Anti-rotation stud (P):** flat plastic washer (15), small cupped plastic washer (4), and nut (5). Make sure flat washer (15) nests inside cupped washer (4) as shown.



4. Torque nuts to specification.

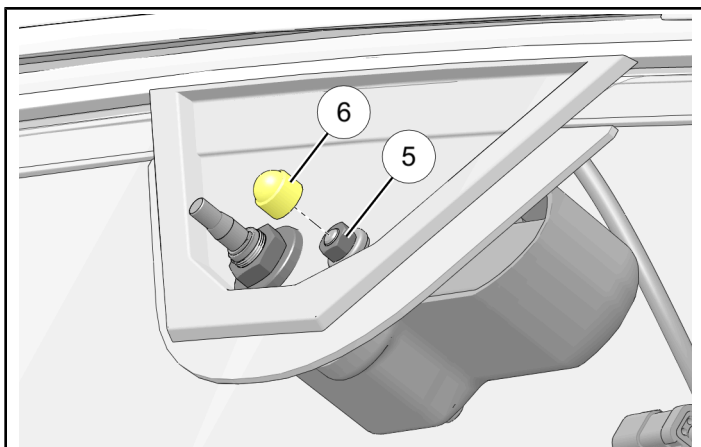
TORQUE

Wiper Motor Nut ⑩:
27 in-lbs (3 N·m)

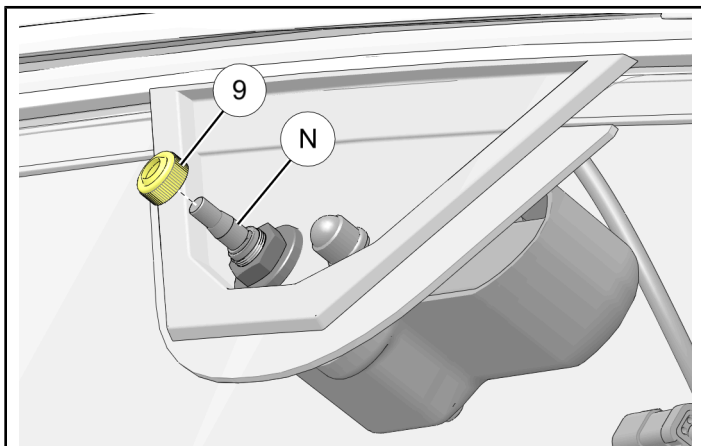
TORQUE

Anti-Rotation Nut ⑤:
62 in-lbs (7 N·m)

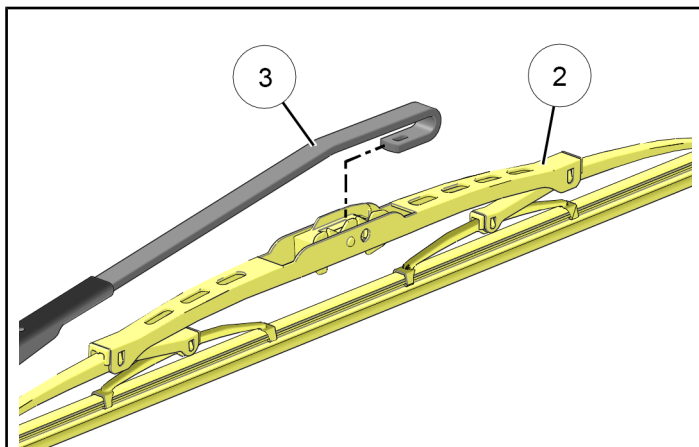
5. Install cap ⑥ onto anti-rotation nut ⑤.



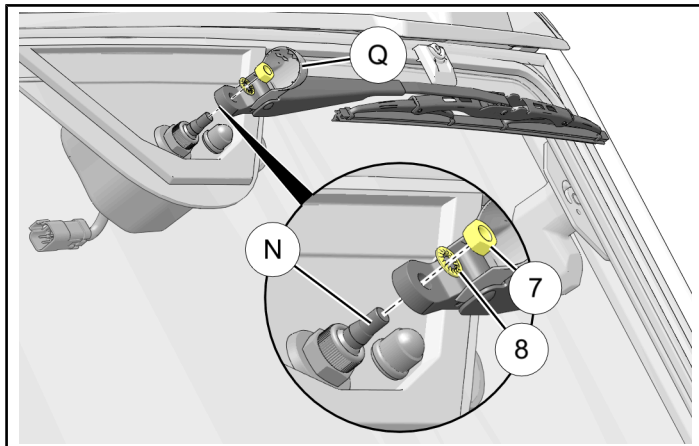
6. Install cap ⑨ onto wiper motor shaft ①. Finger-tighten only.



7. Install wiper blade ② to wiper arm ③ until spring tab on blade locks into slot on arm.



8. Lift arm cover ⑩. Point wiper blade/arm assembly parallel to top of windshield, then install to wiper motor shaft ①. Install washer ⑧ and nut ⑦.



9. Torque nut to specification.

NOTICE

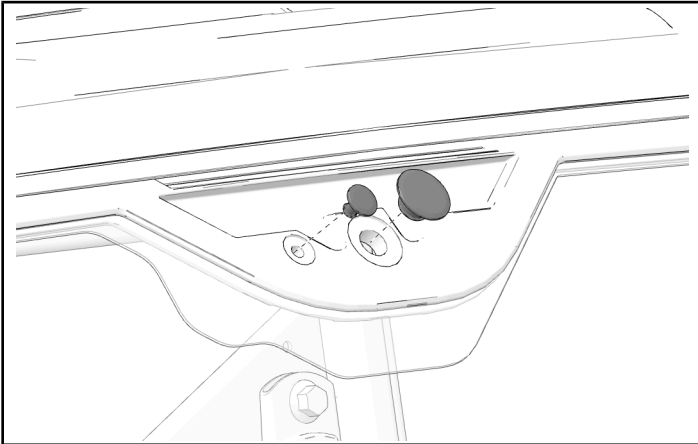
Hold wiper blade/arm assembly parallel to the top of the windshield while applying torque to prevent damage to wiper motor.

TORQUE

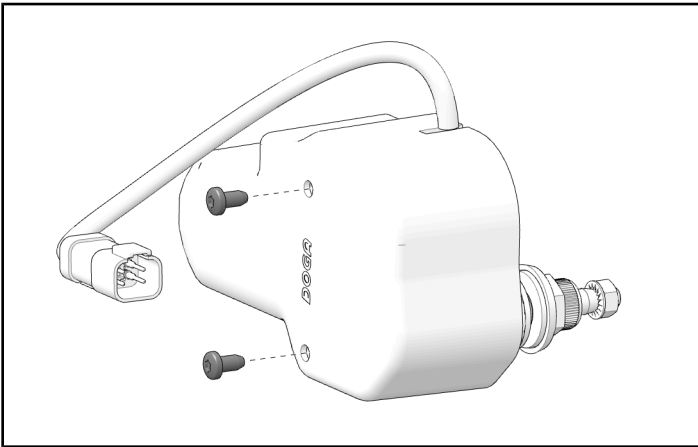
Blade/Arm Nut ⑦:
15 ft-lbs (20 N·m)

WIPER ASSEMBLY INSTALLATION WITH WINDSHIELD P/N 2891680

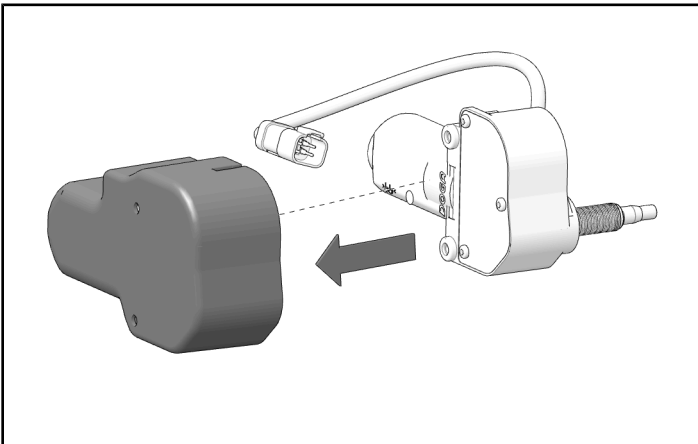
1. Remove two plugs from windshield attach plate.



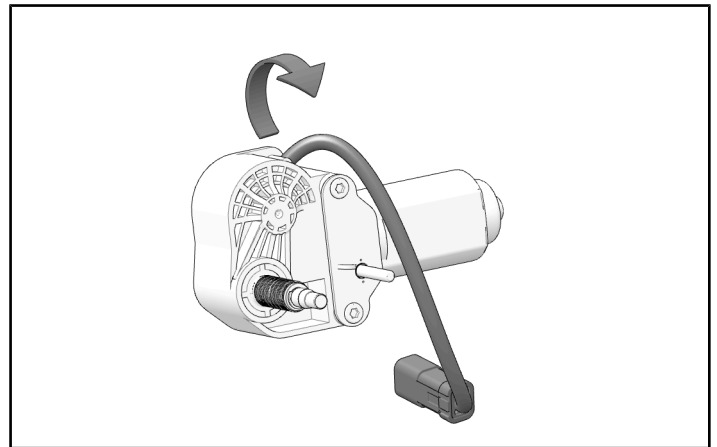
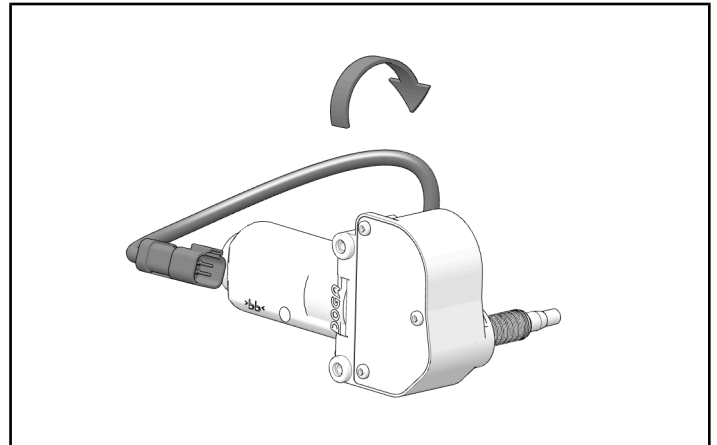
2. Remove and keep two screws from wiper assembly.



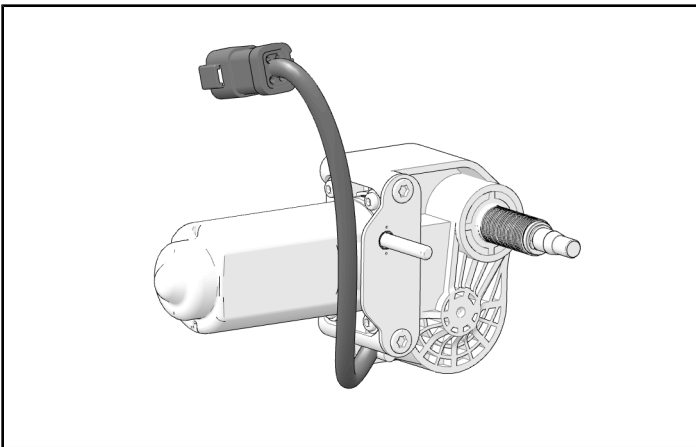
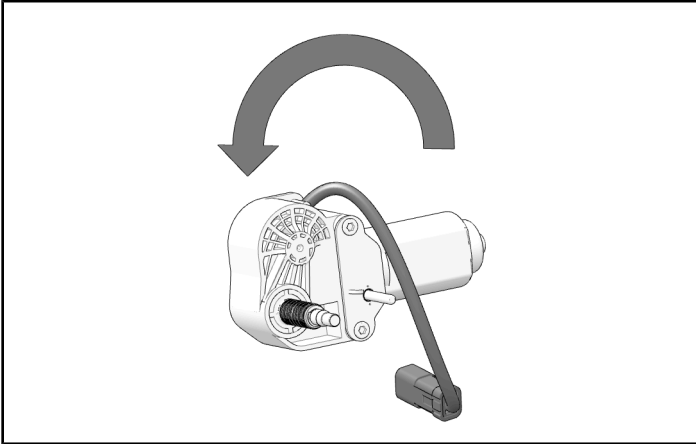
3. Remove and keep cover from wiper assembly.



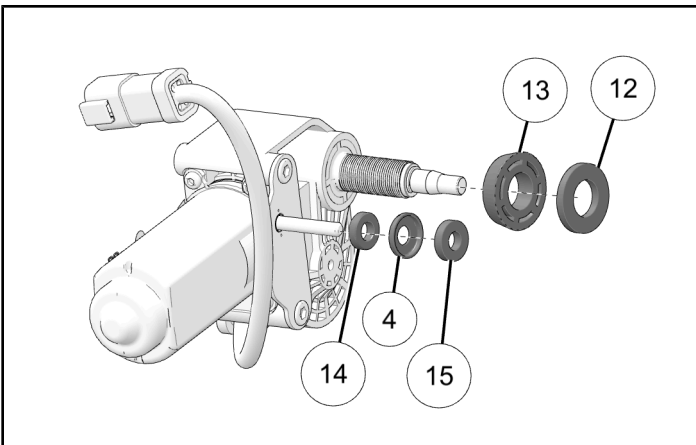
4. Fold motor harness around motor assembly so that harness is on side that will contact windshield.



5. Turn modified motor assembly 180 degrees so that motor shaft nut and anti-rotation stud will align with holes in windshield.

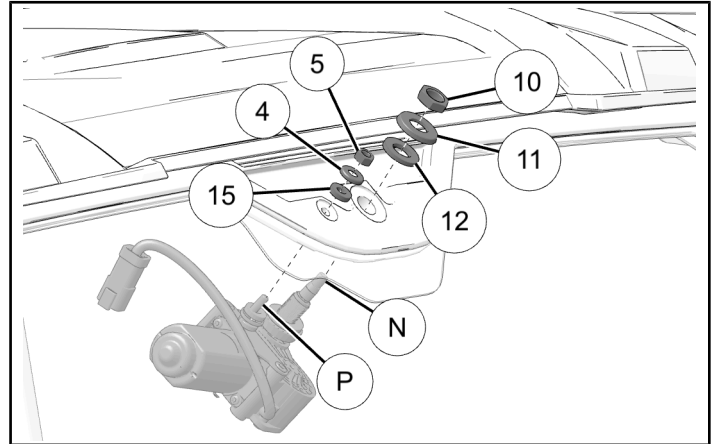


6. Install following items to motor assembly ①:
 - **Wiper motor shaft (N):** spacer ⑬ and rubber washer ⑫. Make sure spacer is installed with SMALL outside diameter towards motor as shown (large outside diameter towards windshield).
 - **Anti-rotation stud (P):** bushing ⑭, small cupped plastic washer ④, and flat plastic washer ⑮. Make sure flat washer ⑮ nests inside cupped washer ④ as shown.



7. Clean mating surfaces of windshield as needed. Install wiper motor shaft (N) and anti-rotation stud (P) through corresponding holes in attach plate and plastic trim. Attach as follows:

- **Wiper motor shaft (N):** rubber washer ⑫, large cupped plastic washer ⑪, and nut ⑩. Make sure rubber washer ⑫ nests inside cupped washer ⑪ as shown.
- **Anti-rotation stud (P):** flat plastic washer ⑮, small cupped plastic washer ④, and nut ⑤. Make sure flat washer ⑮ nests inside cupped washer ④ as shown.



8. Torque nuts to specification.

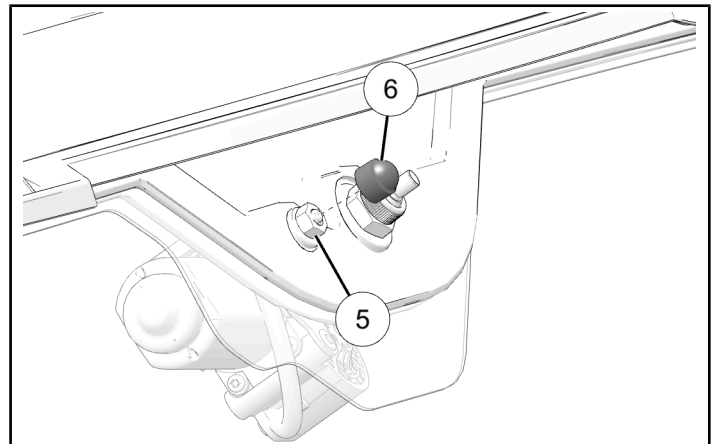
TORQUE

Wiper Motor Nut ⑩:
27 in-lbs (3 N·m)

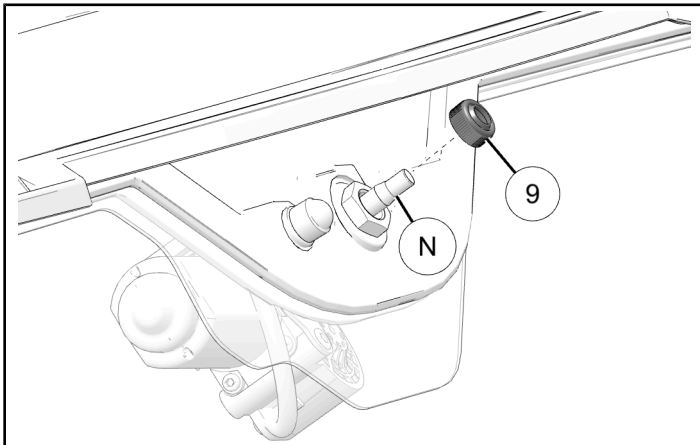
TORQUE

Anti-Rotation Nut ⑤:
62 in-lbs (7 N·m)

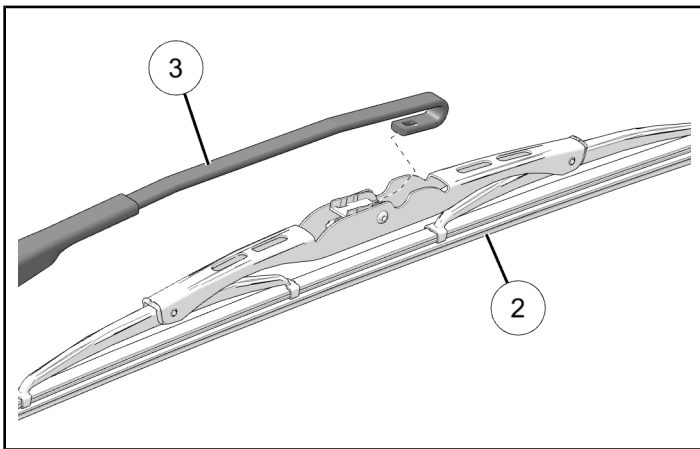
9. Install cap ⑥ onto anti-rotation nut ⑤.



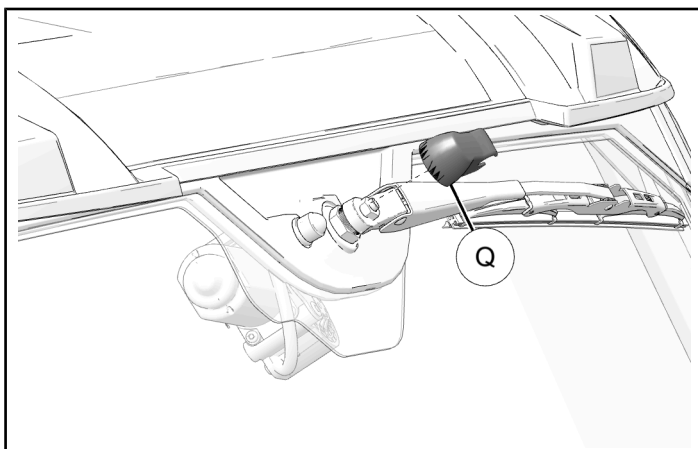
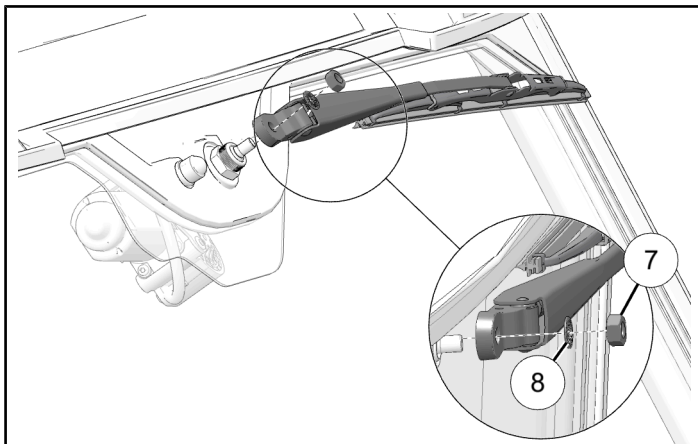
10. Install cap ⑨ onto wiper motor shaft ①. Finger-tighten only.



11. Install wiper blade ② to wiper arm ③ until spring tab on blade locks into slot on arm.



12. Lift arm cover ④. Point wiper blade/arm assembly parallel to top of windshield, then install on wiper motor shaft. Install washer ⑧ and nut ⑦. Install arm cover ④.



13. Torque nut to specification.

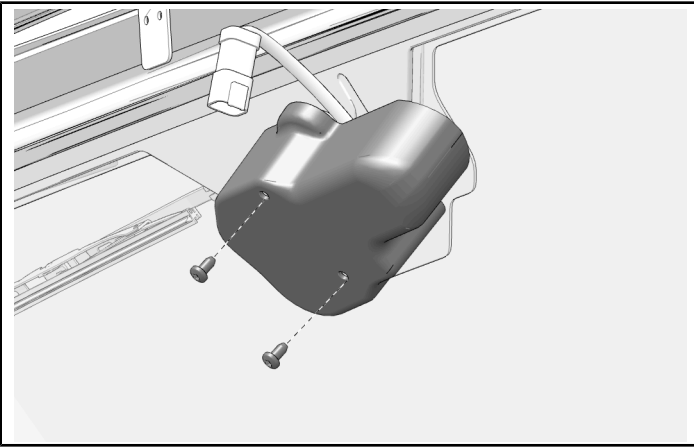
NOTICE

Hold wiper blade/arm assembly parallel to the top of the windshield while applying torque to prevent damage to wiper motor.

TORQUE

Blade/Arm Nut ⑦:
15 ft-lbs (20 N·m)

14. Install motor cover using two kept screws.

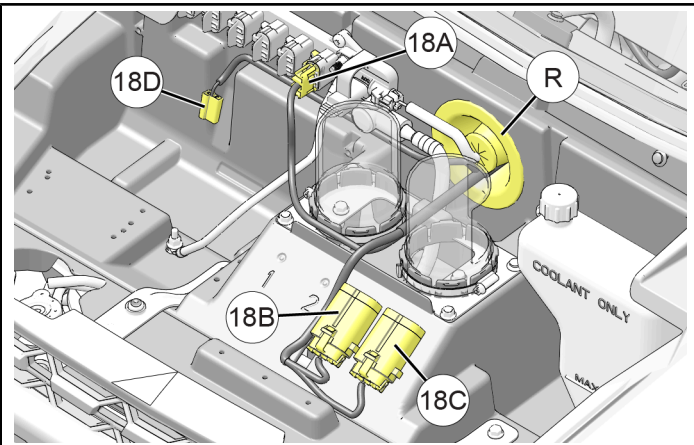


POWER HARNESS INSTALLATION

1. Route switch connector 18E and all four bullet connectors 18G-18K on harness ⑱ from under-hood compartment rearward through accessory firewall grommet ⑲ into upper dash compartment.

NOTICE

Ducting shown transparent for clarity.
Grommet may be temporarily removed to facilitate harness passage.



2. Drill out two accessory plugs on under-hood liner, just forward of air intake ducts. Install relay blocks 18B and 18C using attached fir tree clips.

IMPORTANT

Control drill depth to prevent damage to underlying structure, components, wiring, lines, ducts, etc.

MEASUREMENT

Drill Bit Size:
1/4 in (6 mm)

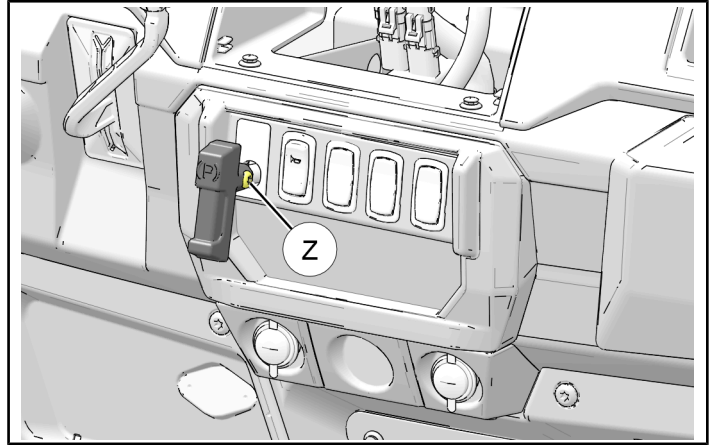
3. Open power cap on vehicle terminal block at any open location. Connect 18A.

NOTICE

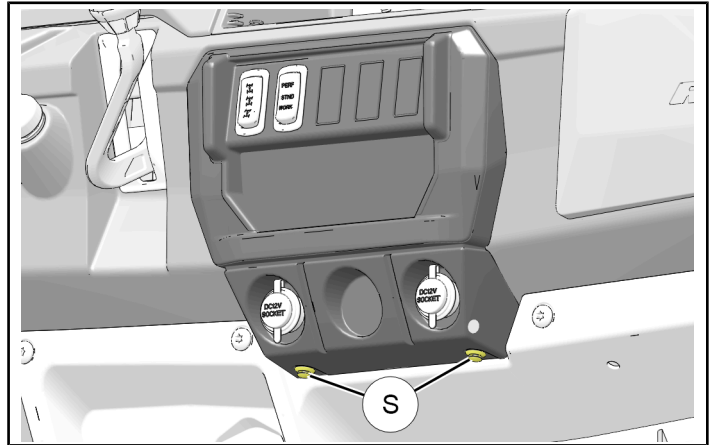
Remaining connections will be made in later steps.

SWITCH INSTALLATION – PRO XD VEHICLES

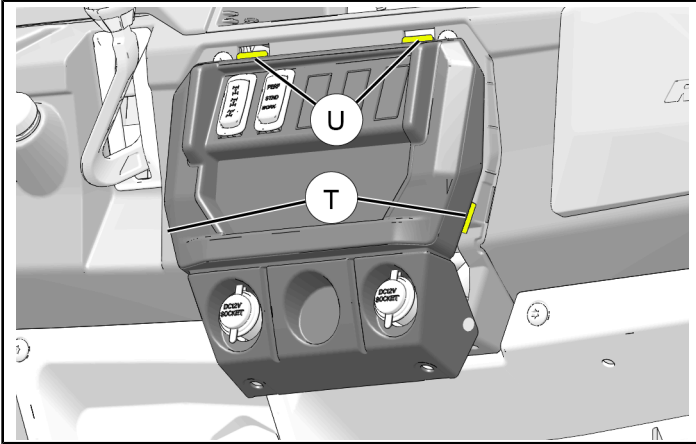
1. Remove and keep screw ①. Remove and keep parking brake handle and nut.



2. Remove and keep two push pin rivets ② from lower face of control panel.



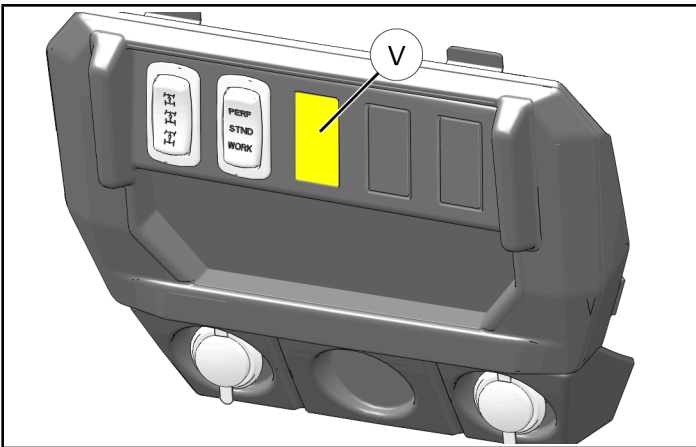
3. Pull bottom of control panel rearward, disengaging two side tabs **T**. Drop two upper tabs **U** out of slots in main dash panel.



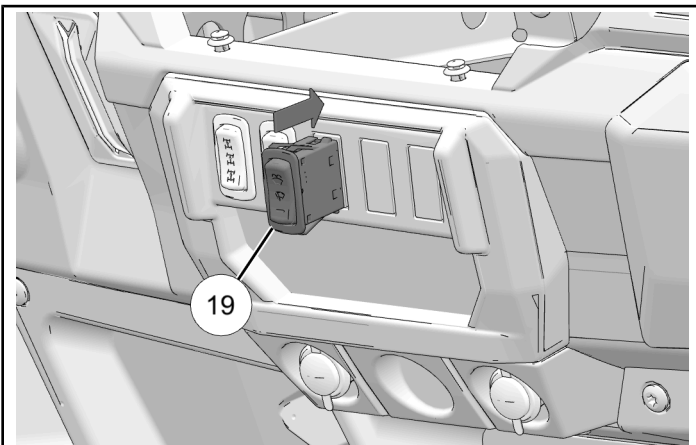
4. Label and disconnect electrical harnesses from switches, sockets, or other devices from control panel.
5. Carefully cut one rectangular switch opening **V**. Deburr edges.

NOTICE

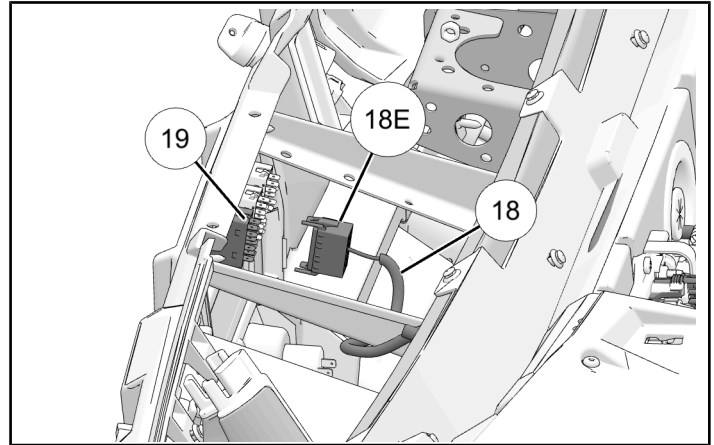
Any open location may be used.



6. Install switch **19** in control panel opening.



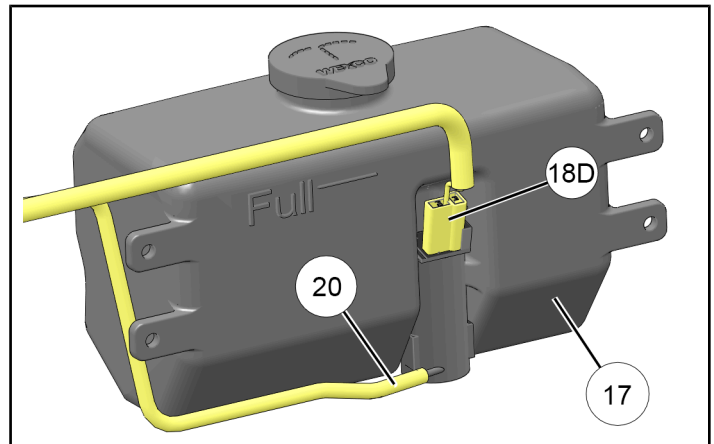
7. Reaching through cupholder cutout, Connect **18E** on power harness **18** to switch **19**.



8. Reconnect electrical harnesses disconnected in Step 4 above. Install control panel using two kept push-pin rivets **5**.

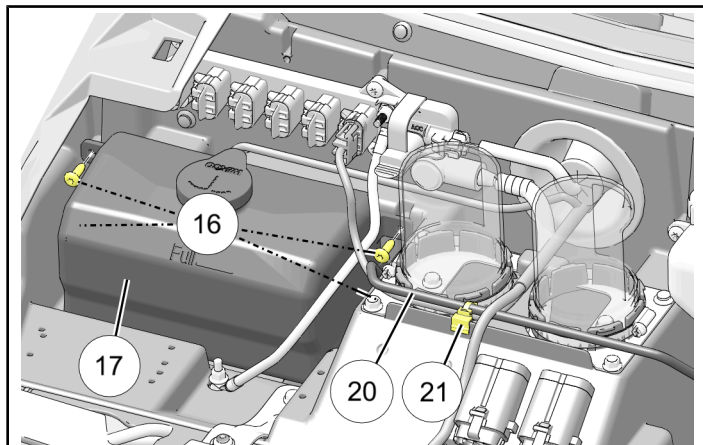
WASHER BOTTLE ASSEMBLY INSTALLATION

1. Connect washer bottle hose **20** to outlet fitting on washer bottle pump **17**. Connect **18D** on power harness **18** to mating connector on washer bottle pump.



2. Install washer bottle assembly ⑰ to underhood liner using four screws ⑯. Do not overtighten screws. Make sure washer bottle hose ⑳ is not pinched.

Notice location of edge clip ㉑, but do not install at this time.



3. Drill hole down through fender at location shown for nozzle ㉓.

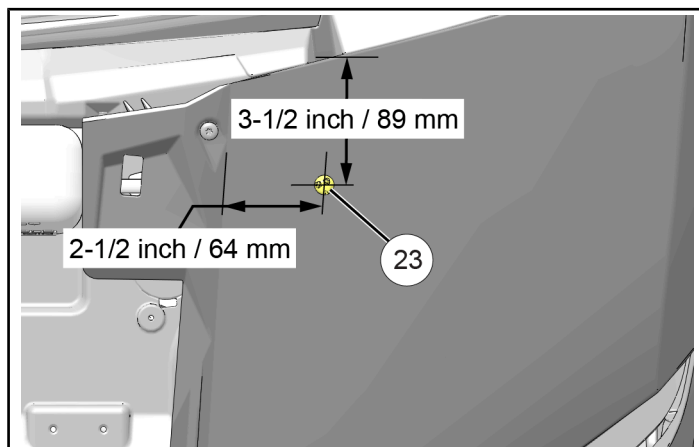
IMPORTANT

Control drill depth to prevent damage to underlying structure, components, wiring, lines, ducts, etc.

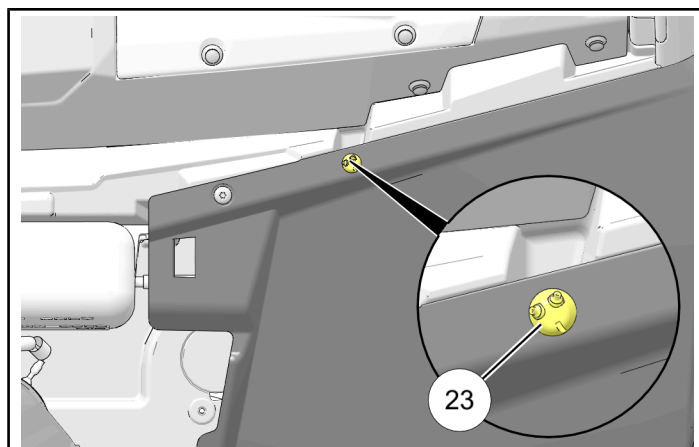
MEASUREMENT

Drill Bit Size:
5/16 in (8 mm)

ALL EXCEPT Polaris Commercial PRO XD

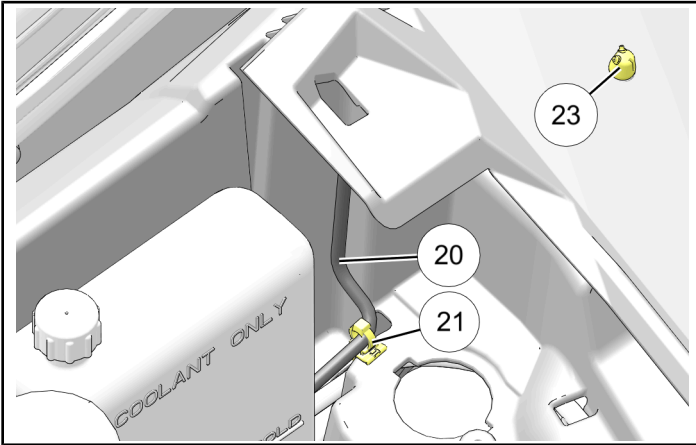


Polaris Commercial PRO XD



4. Disassemble nozzle ㉓, then loosely install to fender.

5. Route washer bottle hose ⑳ towards left side of vehicle. Connect to nozzle ㉓.



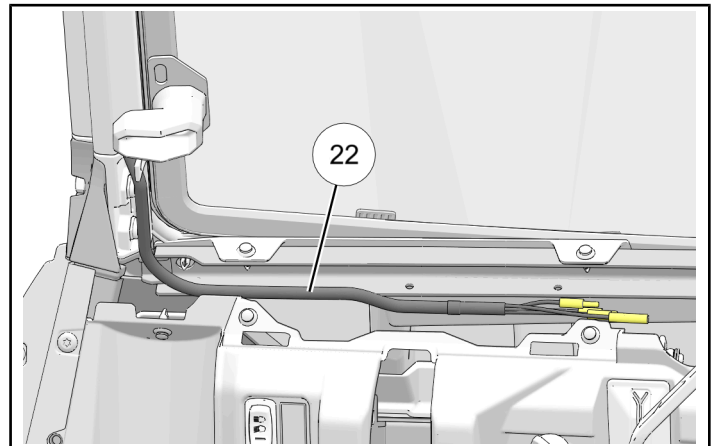
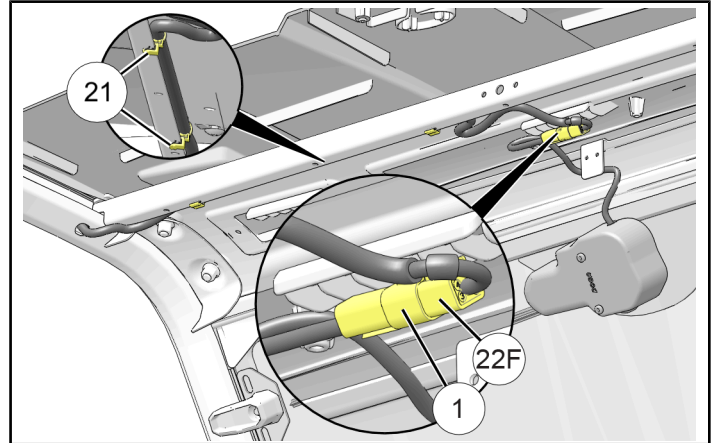
6. Attach washer bottle hose ⑳ and power harness ⑱ to underhood liner using two edge clips ㉑. See previous Steps 2. and 5 for location of edge clips.
7. If removed, reinstall windshield.

ROPS HARNESS INSTALLATION

1. Connect motor assembly ① connector to **22F** on ROPS harness ㉒.

Route opposite end of harness (bullet connectors **22A-22D**) through oval hole at top of driver side A-pillar, down ROPS, out of welded coupler at base of pillar, and into under-hood compartment.

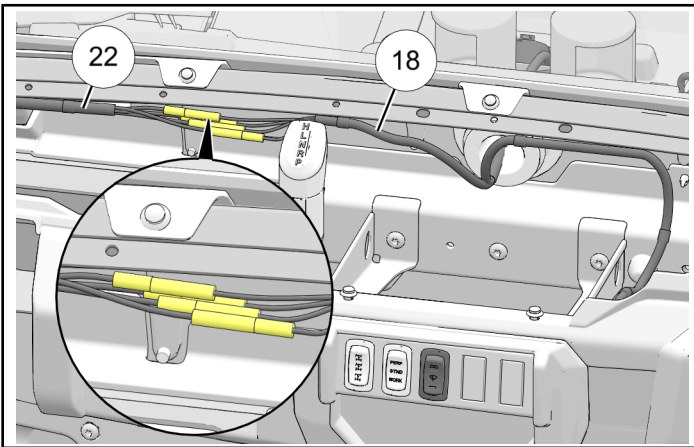
Notice location of two edge clips ㉑, but do not install clips at this time.



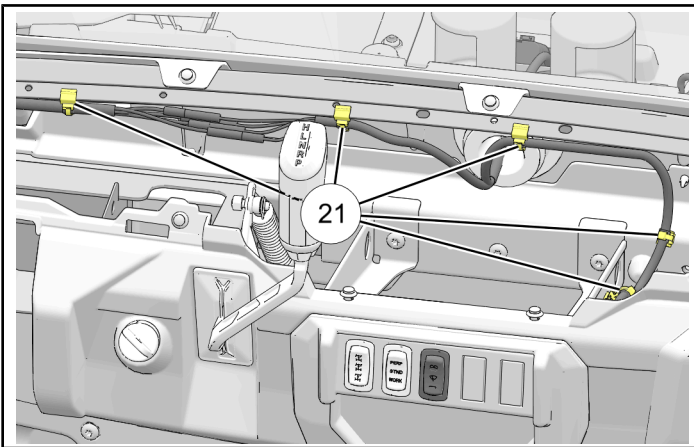
2. **MATCHING WIRE COLORS**, connect bullet connectors **22A–22D** on ROPS harness ② to mating bullet connectors **18G–18K** on power harness ⑮.

NOTICE

Upper dash panel hidden for clarity.



3. Attach ROPS harness ② and power harness ⑮ to dash support structure using five edge clips ⑰ to prevent contact with sharp edges or moving parts. Clip locations are identified by white tape.



4. Attach ROPS harness ② to ROPS visor using two edge clips ⑰ to prevent contact with sharp edges or moving parts. See previous Step 1.
5. Carefully examine all harness routing. Make sure harnesses are routed and attached every 12 inches (300 mm) to prevent contact with hot components, sharp edges, or moving parts (including steering and shift lever components throughout their full range of travel). Use cable ties ⑮ as required.

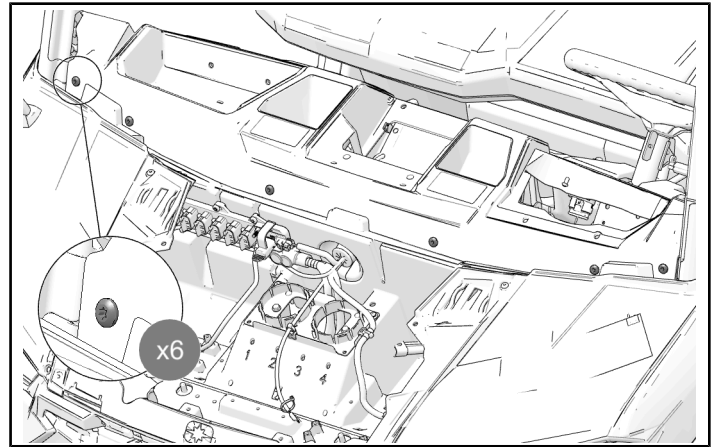
UPPER DASH INSTALLATION – XP1000 AND PRO XD VEHICLES

1. Install instrument gauge and connect harness.
2. Put upper dash on vehicle.

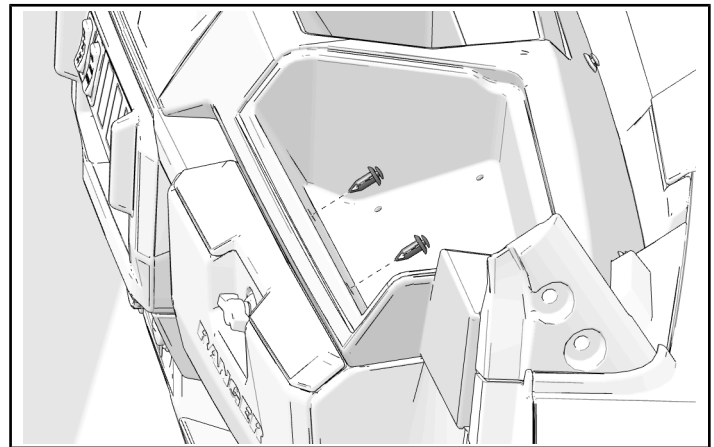
3. Install using six kept screws onto front of upper dash. Tighten screws until fully seated.

NOTICE

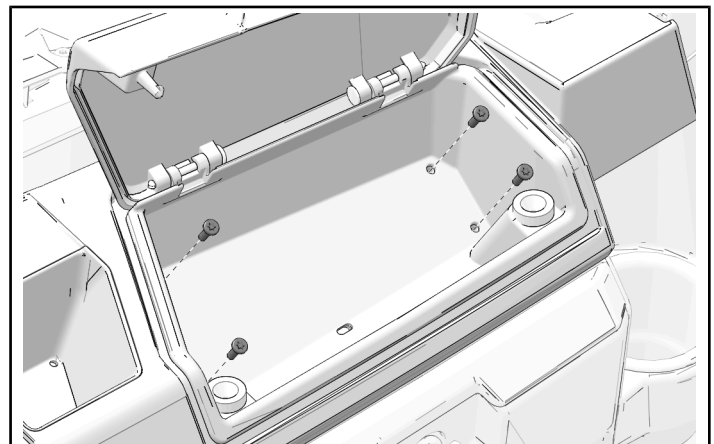
MY 2022 and older will have six push-pin rivets instead of six screws.



4. Install two kept push-pin rivets in storage compartment location on dashboard.

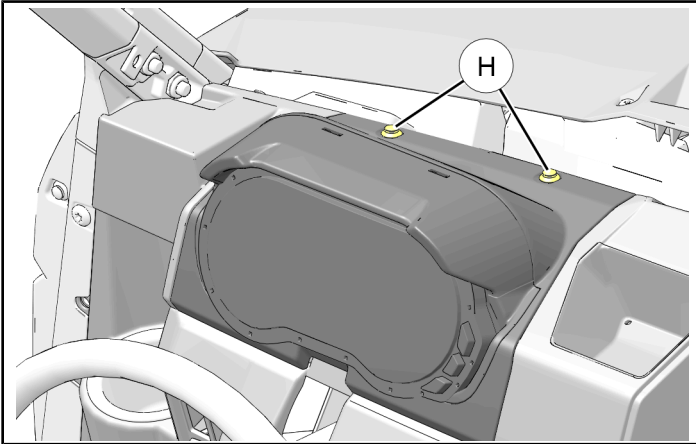


5. Put dashboard storage compartment in dashboard. Install four kept screws inside storage compartment.

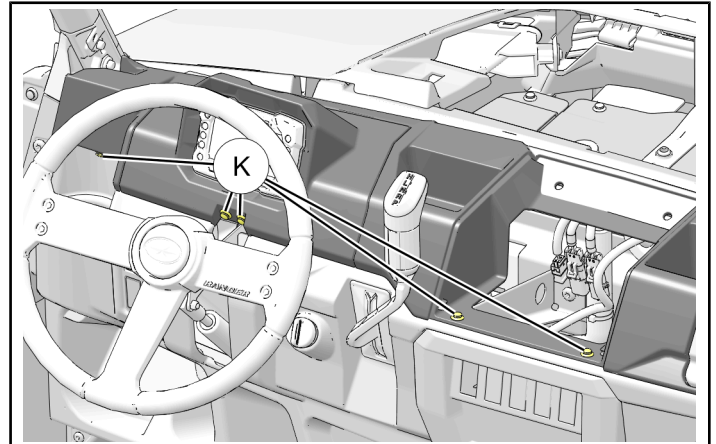


6. Close dashboard storage compartment.

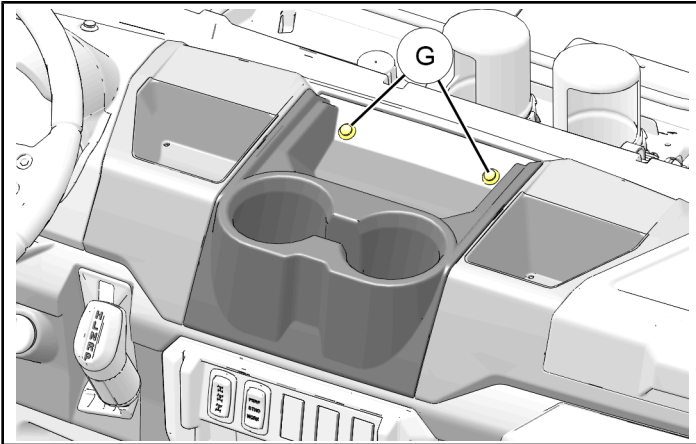
7. Connect instrument cluster wiring harness.
8. Install instrument cluster hood using two kept push pin rivets (H).



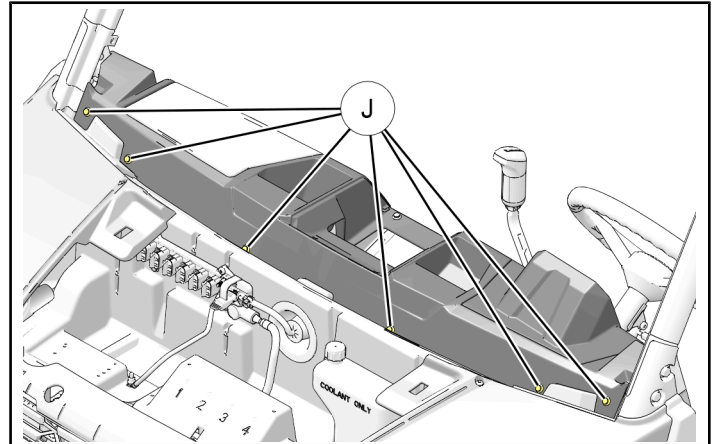
4. Install five kept push-pin rivets (K) to left side of dash: two at center cupholder, two below instrument cluster, and one on underside of dash above cupholder.



9. Install cupholder using two kept push pin rivets (G).

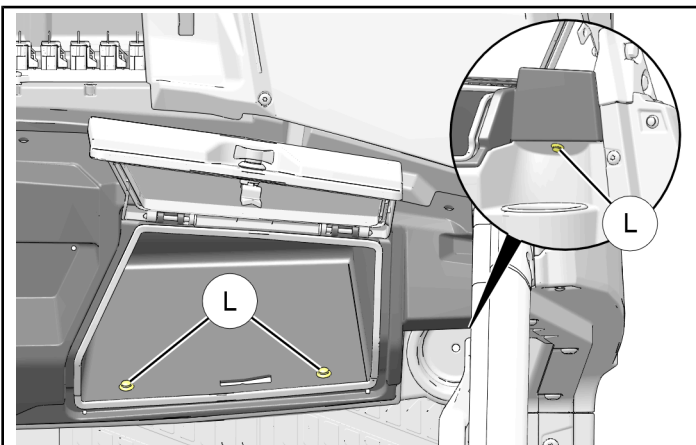


5. Install six kept push-pin rivets (J) along forward edge of dash.

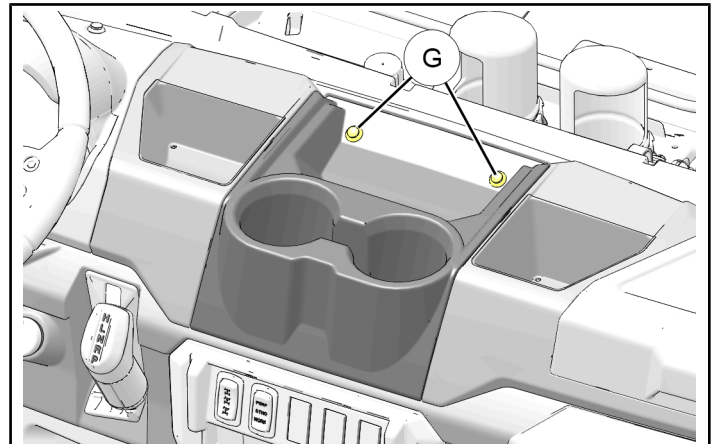


UPPER DASH INSTALLATION – 1000 AND CREW 1000 VEHICLES

1. Install instrument gauge and connect harness.
2. Put upper dash on vehicle.
3. Install three kept push-pin rivets (L) to right side of dash: two inside storage compartment and one on underside of dash above cupholder. Close door to upper storage compartment.



6. Install cupholder using two kept push-pin rivets (G).



BATTERY CONNECTION

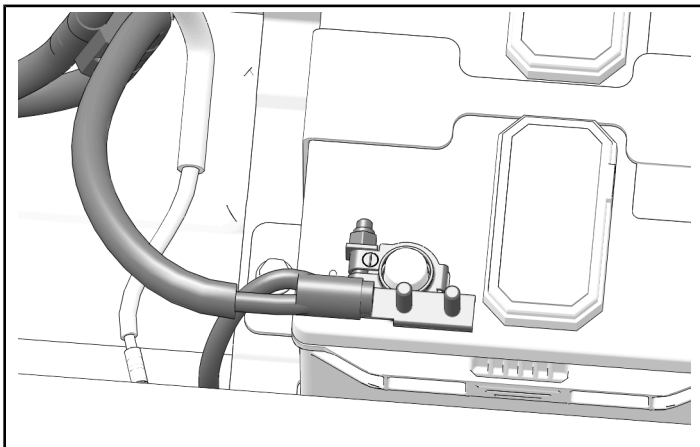
NOTICE

Ranger XP 1000 3-passenger: Battery is located under passenger seat. Ranger XP 1000 Crew: Battery is located under rear right seat.

⚠ WARNING

Make sure red positive (+) battery terminal is **COMPLETELY COVERED** by protective boot. Accidental tool contact across both battery terminals will result in high current electrical arc, and may result in battery explosion. Death or serious injury may occur.

1. Install negative (-) harness cable to negative (-) connection on battery with battery nut.

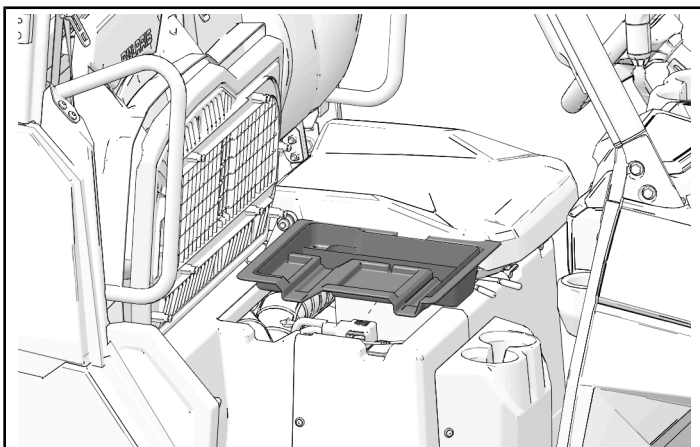


2. Torque nut to specification.

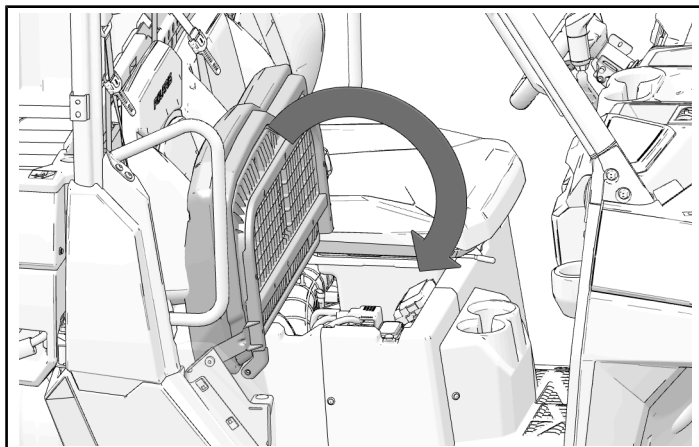
TORQUE

Battery Nut:
8 ft-lbs (11 N·m)

3. Install underseat storage bin.

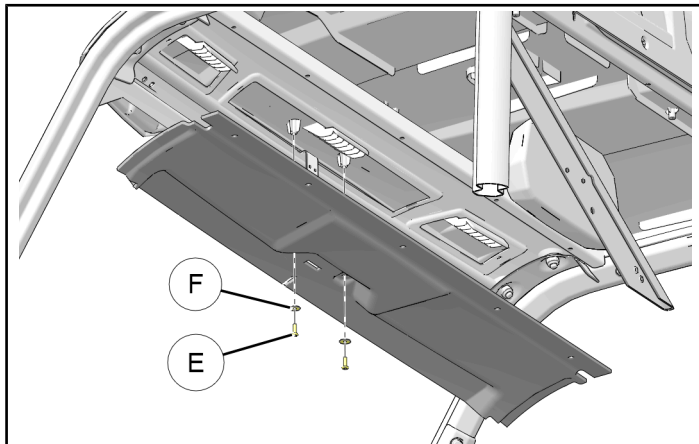


4. Lower passenger seat.

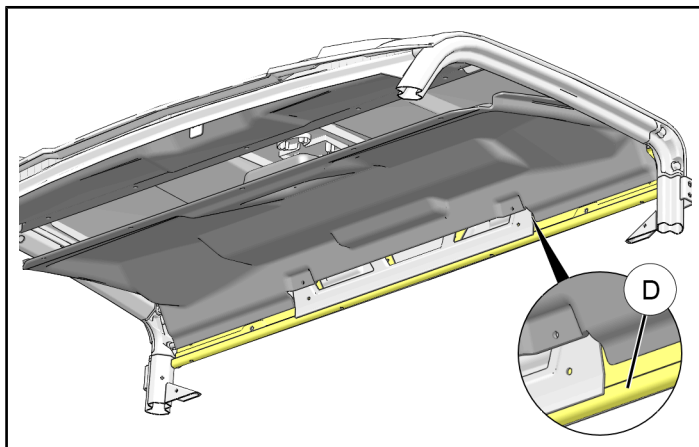


ROOF LINER INSTALLATION

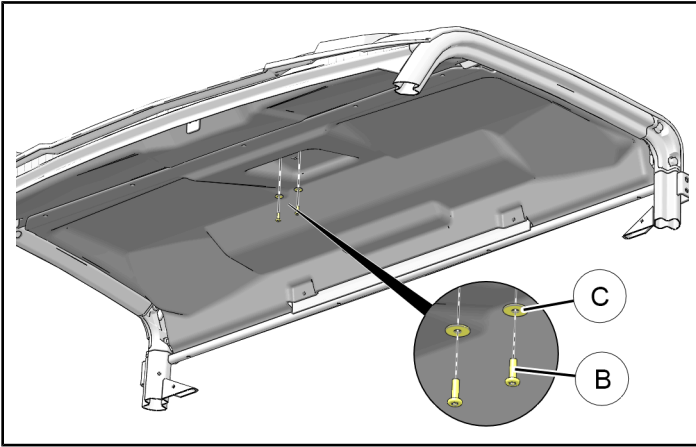
1. Install front roof liner using kept screws (E) and washers (F).



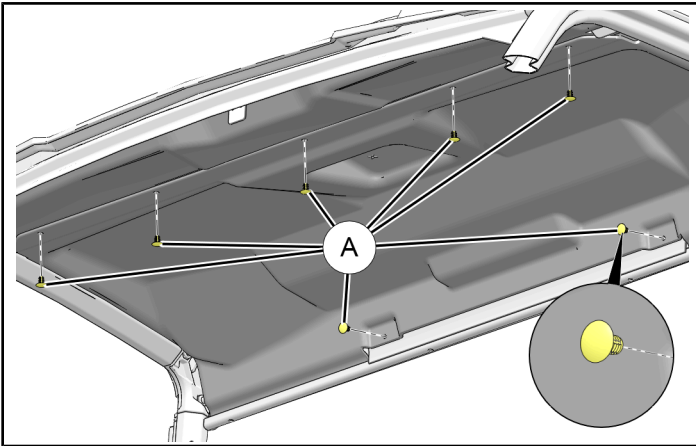
2. Carefully pull left and right edges of rear liner from between ROPS and roof seal, then remove rear edge of liner from roof support channel (D).



3. Install kept screws ⑧ and washers ③. Install light, if equipped.



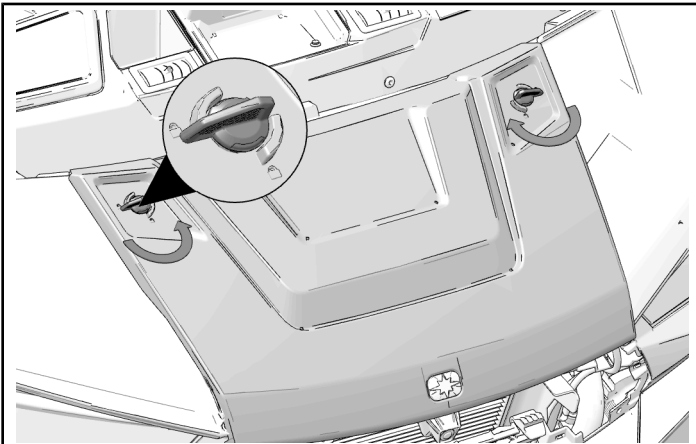
4. Install seven kept push darts ① to rear liner, two to rear edge and five to front edge.



5. Install rear (roof mounted) speakers, if equipped.

HOOD INSTALLATION

1. Align hood with vehicle.
2. Turn two quarter-turn fasteners to lock position to install hood.



SYSTEM TEST

1. Fill washer bottle with fluid, turn ignition to "ON", and test system.
2. Make sure no fluid leakage where washer hose ⑳ connects to pump fitting ⑰ and nozzle ㉓. Correct as required.
3. Make sure there is adequate spray coverage on windshield. If not, turn nozzle on fender and/or adjust nozzle spray angles. Tighten nozzle nut, but do not overtighten.

NOTICE

Each nozzle is mounted in a ball socket and is independently adjustable using a fingernail (or equivalent).

TORQUE

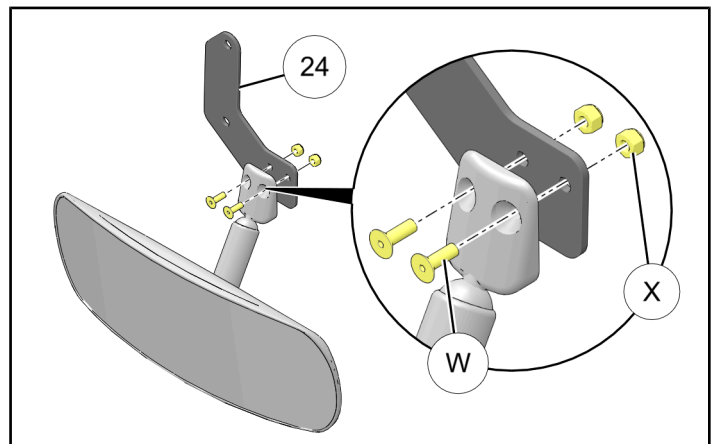
Nozzle Nut ㉓:
5 in-lbs (0.6 N·m)

OPTIONAL REAR VIEW MIRROR (P/N 2879969) INSTALLATION

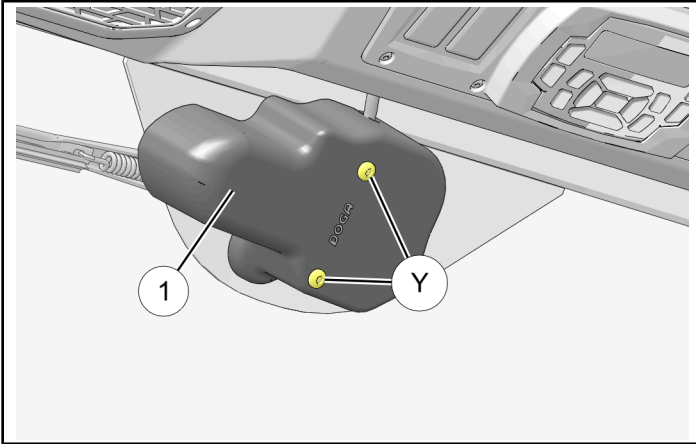
NOTICE

If Visor Audio Kit (PN 2882888, 2882891, or equivalent) is installed, and you also wish to install Rear View Mirror Kit (PN 2879969 or equivalent), then perform the following steps.

1. Install mirror assembly to bracket ㉔ using two each screws ㉔ and nuts ㉔ provided with Rear View Mirror Kit.



2. Remove two screws ① from cover on motor assembly ①. Cover can remain in place. Screws will not be reused.



3. Install bracket ②④ (with attached mirror assembly) to motor assembly ① using two screws ①⑥.

NOTICE

#8 X 3/4 High/Low screws provided with Rear View Mirror Kit will not be used.

