

WINDSHIELD WIPER KIT



P/N 2882754

APPLICATION

Verify accessory fitment at Polaris.com.

BEFORE YOU BEGIN

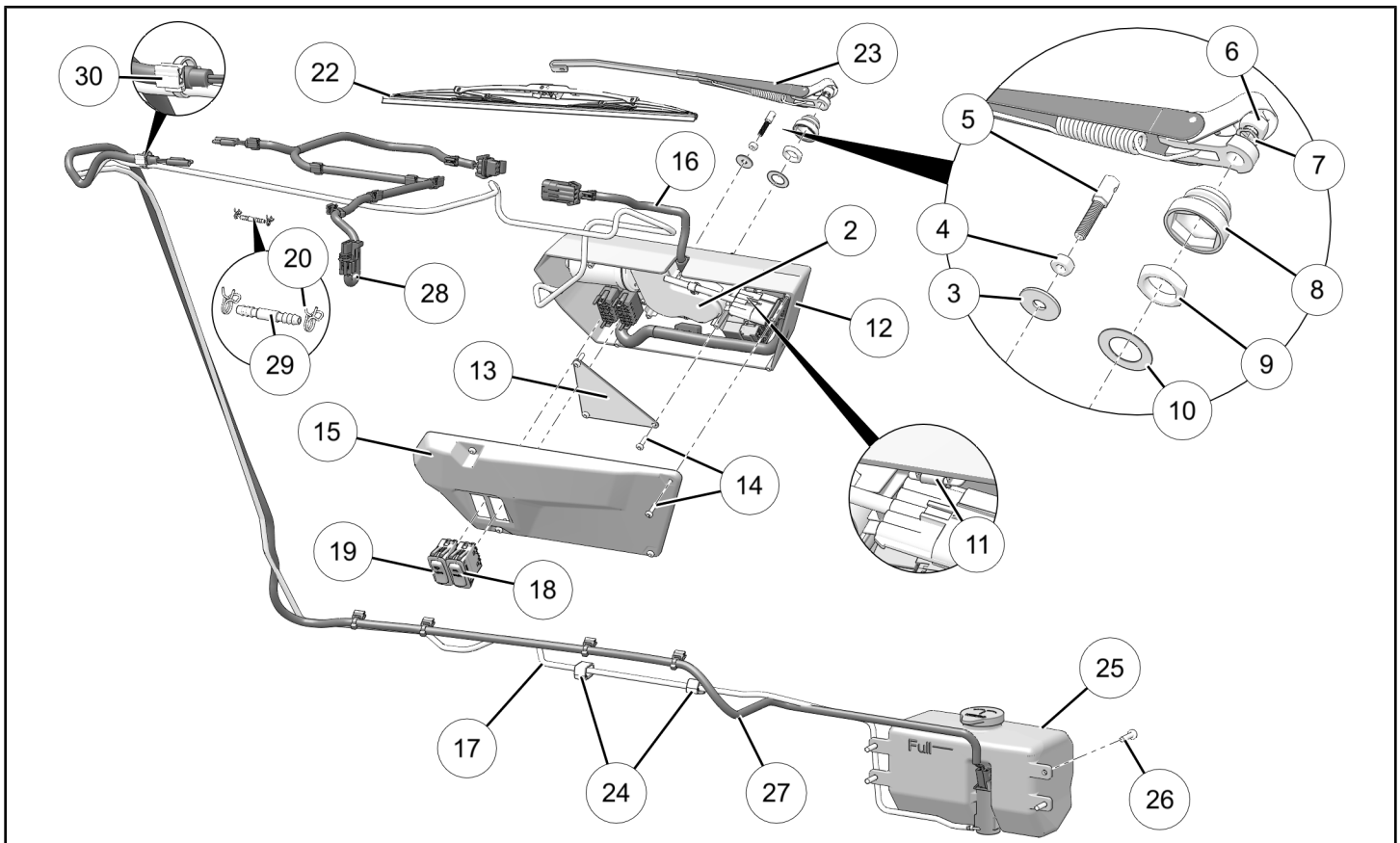
Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

KIT CONTENTS

This kit contains parts for installation of the windshield wiper/washer assembly only. 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
 - 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
3. Roof Power Kit, PN 2882904

This Kit includes:



REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Housing Assembly (includes items 2–19)	-
2	1	. Motor Assembly (includes items 3–10)	2204914
3*	1	. . Washer - M6	-
4*	1	. . Nut, Hex - M6	-
5*	1	. . Nozzle	-
6*	1	. . Nut, Hex - M8	-
7*	1	. . Washer, Wave	-
8*	1	. . Seal, Pivot	-
9*	1	. . Nut, Hex - M18 X 1.0	-
10*	1	. . Washer - M18	-
11	1	. Clip, Harness	7081936
12	1	. Housing, Motor Assembly	5450703
13	1	. Bracket, Retention, Motor Assembly	5258170
14	7	. Screw, Torx® Pan Head, High/Low - #10 X 3/4	7512026
15	1	. Cover, Housing	5454389
16	1	. Harness, Wiper Motor	2413901
17	1	. Hose, Washer Bottle	5416462
18	1	. Switch, Wiper/Washer	4017113
19	1	. Switch, Wiper, Low/High	4017114
20	2	Clamp, Wire Spring - 7 mm	7080603
21	-	(unused)	-
22	1	Blade, Wiper	2204916
23	1	Arm, Wiper	2204915
24	2	Guide, Washer Bottle Hose	5415017
25	1	Bottle Assembly, Washer	2205139
26	4	Screw, Torx® Truss Head, High/Low - #14 X 3/4	7519045
27	1	Harness, A-Pillar	2414190
28	1	Harness, Power	2414189
29*	1	Union, Washer Bottle Hose	7052701
30	1	Clip, Edge	7082365
31	5	Cable Tie (not shown)	-
32	1	Tape, Thread Sealing (not shown)	-
	1	Instructions	9927920

Items marked (*) are included in Hardware Kit PN 2204917.

TOOLS REQUIRED

- Safety Glasses
- Drill
- Drill Bit: 9/32 inch (7 mm), 3/4 inch (19 mm)
- Pick and Hook Set
- 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.

ASSEMBLY TIME

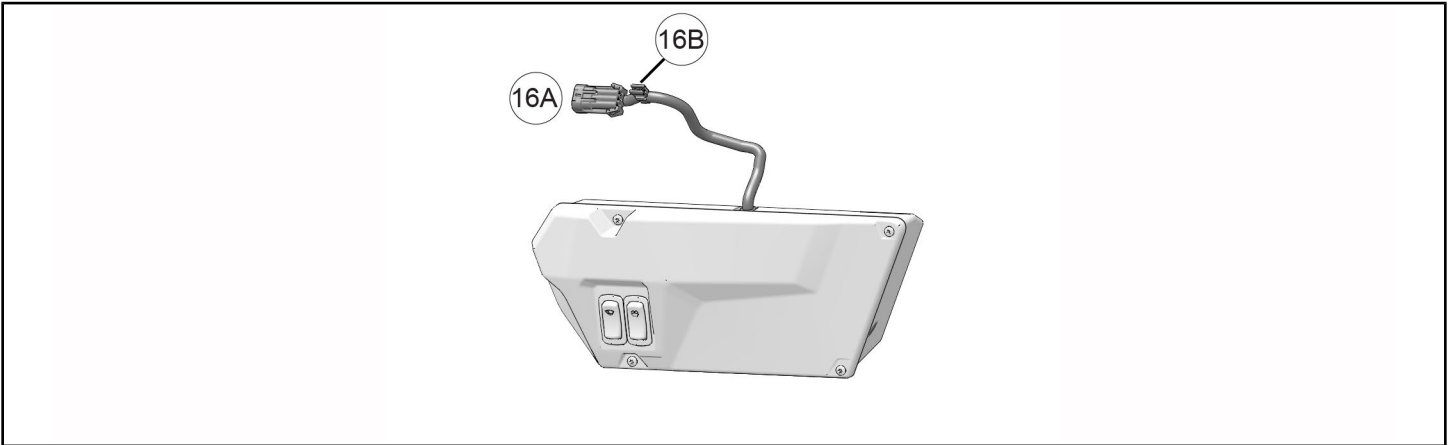
Approximately 60 minutes

NOTE

Additional time may be required for optional steps, or to accommodate other installed accessories.

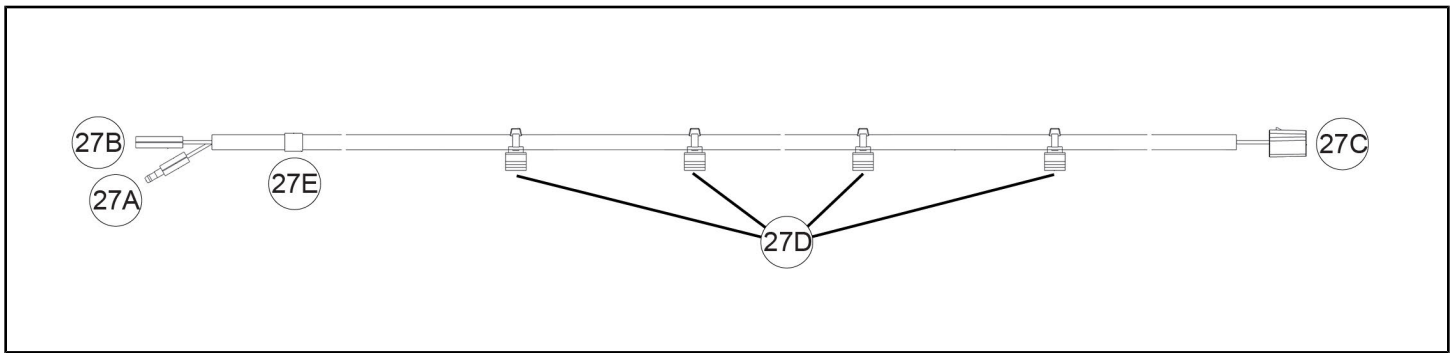
HARNESS DETAIL

WIPER MOTOR HARNESS ⑩:



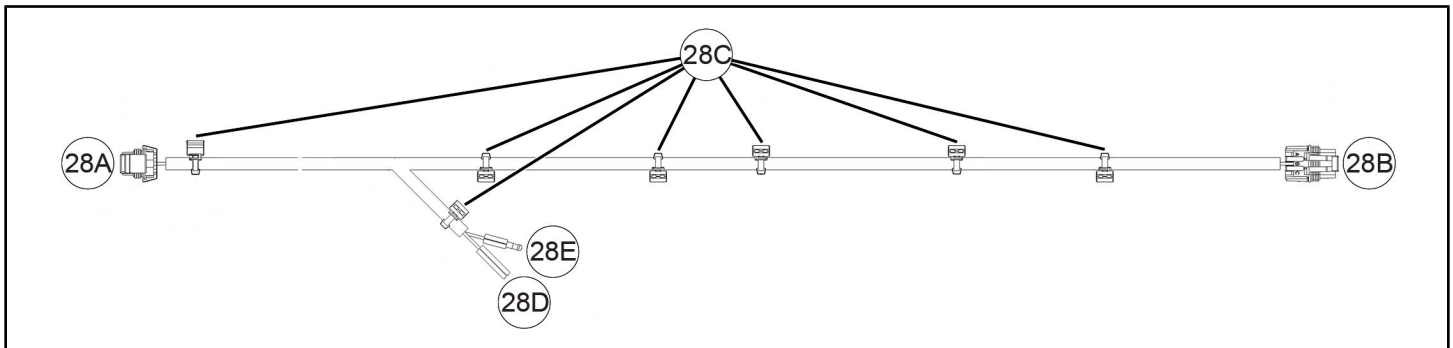
REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
16A	Connector, Power	-	6 male	Power harness ⑳, connector 28A
16B	Clip, Edge	-	-	Vehicle structure

A-PILLAR HARNESS 27:



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
27A	Connector, Bullet, Washer Fluid Pump, B+	-	1 male	Power harness 28, connector 28D
27B	Connector, Bullet, Washer Fluid Pump, Ground	-	1 female	Power harness 28, connector 28E
27C	Connector, Washer Bottle Pump	-	2 female	Washer bottle assembly 25
27D	Clip, Edge	-	-	Vehicle structure
27E	Tape, White Identification	-	-	Identifies installation location for edge clip 30

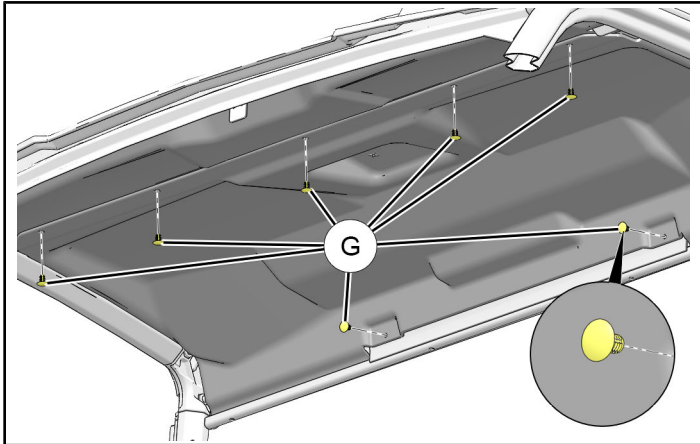
POWER HARNESS 28:



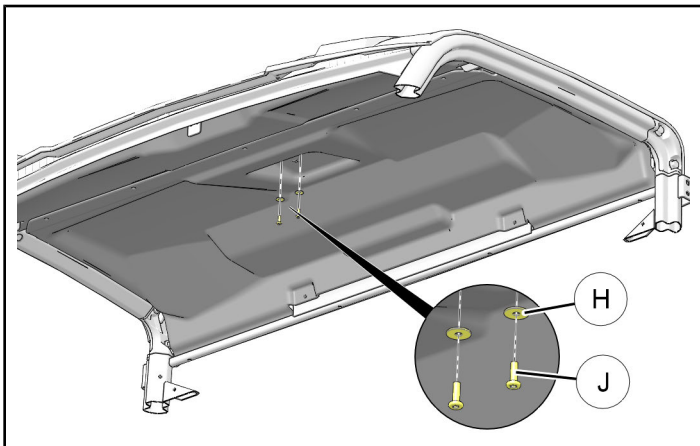
REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
28A	Connector, Wiper Motor	-	6 female	Wiper motor harness 16, connector 16A
28B	Connector, Accessory (Roof) Terminal Block	-	3 female	Roof Power Kit PN 2882904 (sold separately)
28C	Clip, Edge	-	-	Vehicle structure
28D	Connector, Bullet, Washer Fluid Pump, B+	-	1 female	A-Pillar harness 27, connector 27A
28E	Connector, Bullet, Washer Fluid Pump, Ground	-	1 male	A-Pillar harness 27, connector 27B

INSTALLATION INSTRUCTIONS

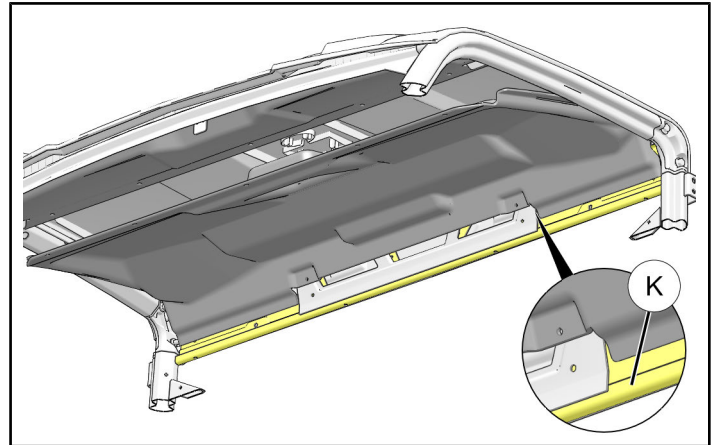
1. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.
2. Gain access.
 - a. Remove hood.
 - b. Remove roof liner (if installed).
 - i. Remove rear (roof mounted) speakers, if installed.
 - ii. Remove seven push darts **G** from rear liner, two from rear edge and five from front edge. Retain push darts.



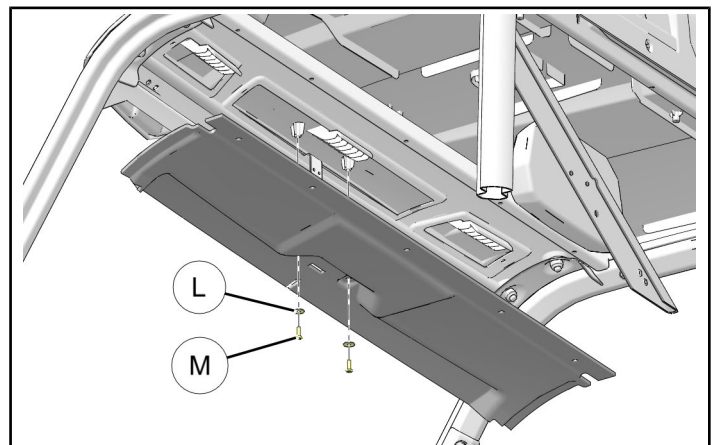
- iii. If light is installed against rear liner, remove it. Otherwise, remove two each screws **J** and washers **H**. Retain hardware.



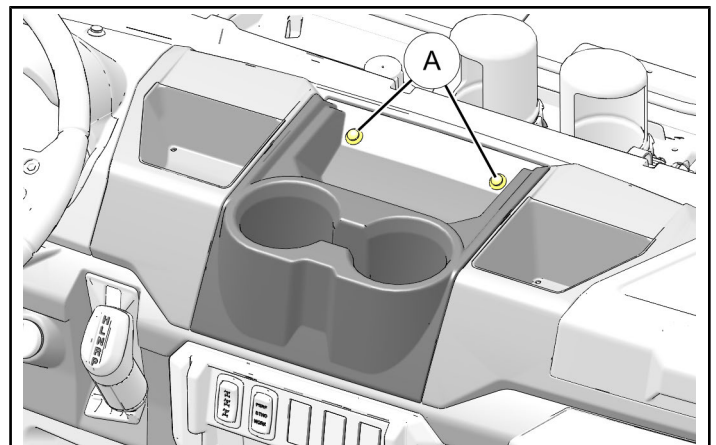
- iv. Carefully pull LH and RH edges of rear liner from between ROPS and roof seal, then remove rear edge of liner from roof support channel **K**.



- v. Remove front roof liner by removing two each screws **M** and washers **L**. Retain hardware.



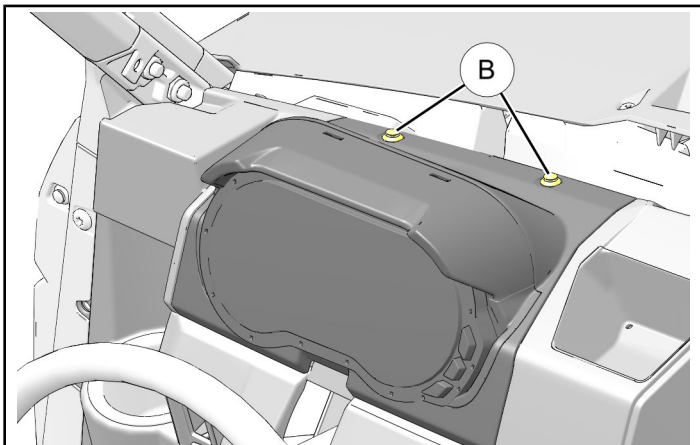
- c. Remove upper dash cupholder by removing two push pin rivets **A**, then sliding cupholder rearward. Retain rivets.



- d. Tilt steering wheel to full down position. Detach instrument cluster hood by removing two push pin rivets ⑧, then sliding hood (with instrument cluster) rearward. Retain rivets.

NOTE

It should not be necessary to disconnect instrument cluster wiring harness. Hood removal is to gain access for routing wiper motor harness ⑯ and washer bottle hose ⑰.

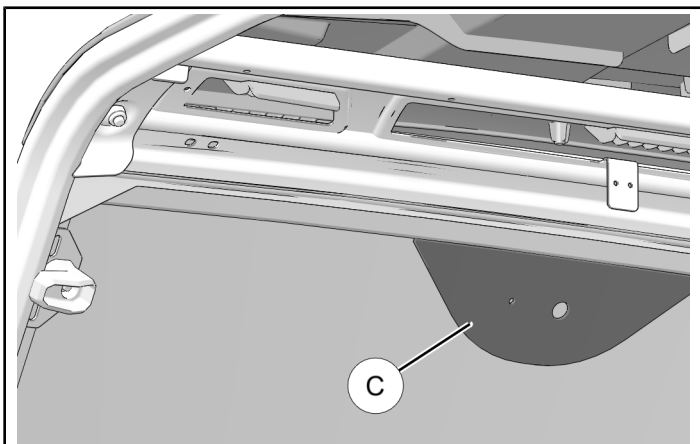


3. Install windshield wiper housing assembly.

NOTE

Windshield should remain installed and locked for this step.
Glass Lock & Ride® Windshield shown; Glass Tip-Out Windshield similar.

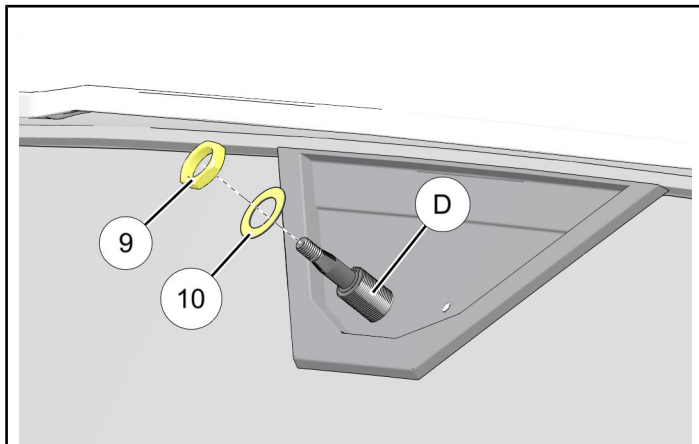
- a. Using windshield attach plate ③ as template, drill two holes from inside of vehicle forward through plastic trim:
- i. 3/4 inch (19 mm) diameter hole for wiper motor shaft ①
 - ii. 9/32 inch (7 mm) diameter hole for nozzle ⑤



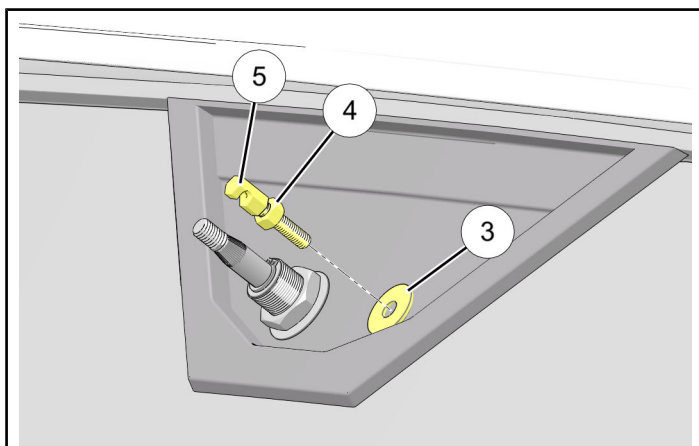
- b. Insert wiper motor shaft ① through larger hole in windshield attach plate ③, then secure housing assembly using washer ⑩ and nut ⑨. Do not tighten nut at this time.

NOTE

Polaris recommends two people perform this step.



- c. Fully thread jam nut ④ on nozzle ⑤. Apply thread sealing tape ⑳ to nozzle, then install through washer ③ and attach plate into housing assembly. Do not tighten jam nut yet.

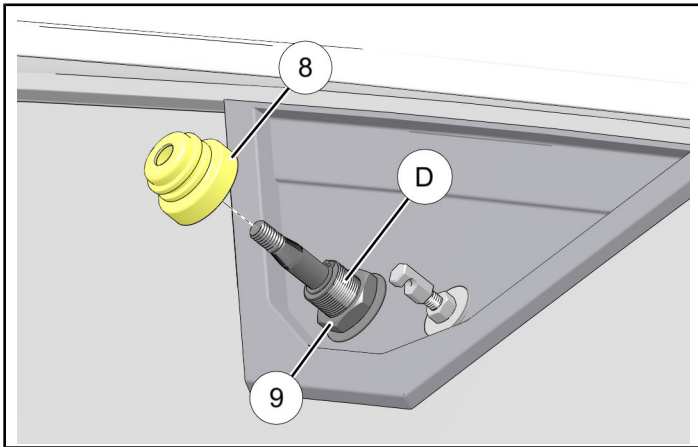


- d. Torque nut ⑨ to specification. See previous Step b. for illustration.

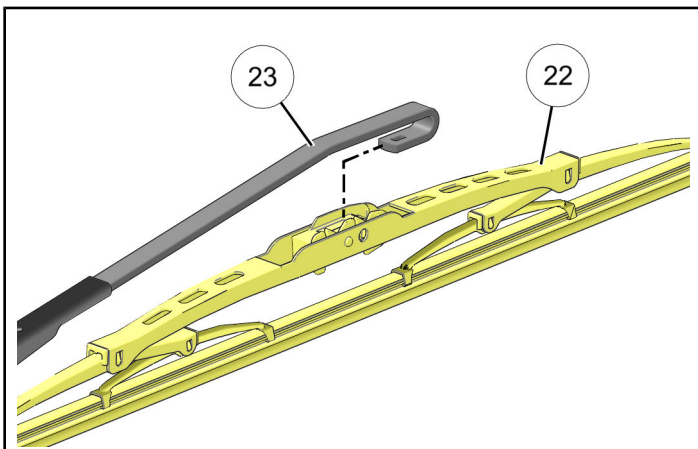
TORQUE

15 ± 2 ft. lbs. (20 ± 3 Nm)

- e. Install pivot seal ⑧ on wiper motor shaft ① so hex-shaped opening is seated on nut ⑨.

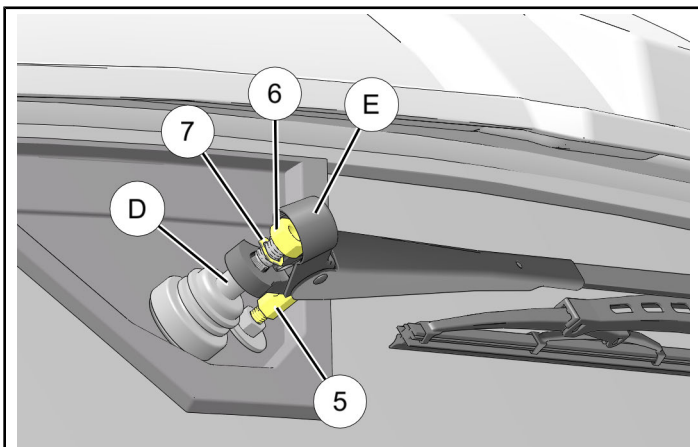


- f. Install wiper blade ②② to wiper arm ③ until spring tab on blade locks into slot on arm.



- g. Orient wiper blade/arm assembly parallel to top of windshield, then install to motor shaft ①.

Lift arm cover ⑤ and install wave washer ⑦ and wiper arm nut ⑥. Ensure wiper arm ③ does not contact nozzle ⑤.



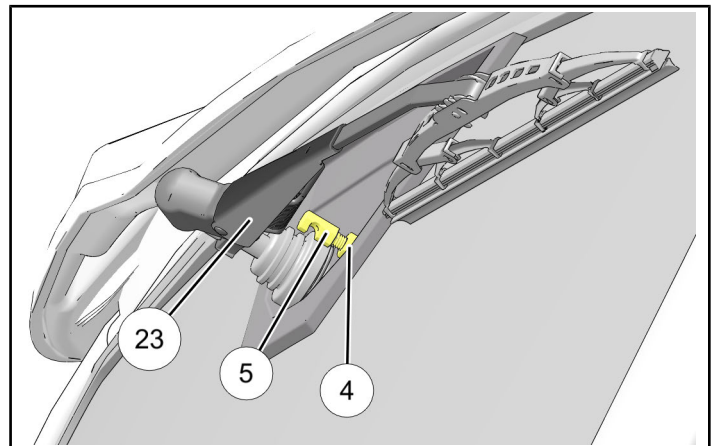
- h. Adjust depth and orientation of nozzle ⑤ to achieve the following:

- Nozzle is threaded in far enough to prevent leaks and provide adequate clearance from wiper arm ③, but not so far as to prevent adequate spray pattern on windshield
- Nozzle exit hole is pointed down

After adjustment torque jam nut ④ to specification.

TORQUE

MAXIMUM: 7 ft. lbs. (10 Nm)



- i. Torque wiper arm nut ⑥ to specification, then recheck nozzle to arm clearance (see previous step).

TORQUE

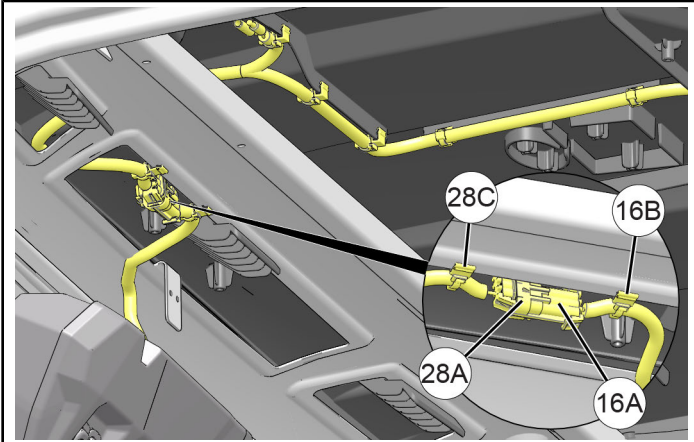
12 ± 1 ft. lbs. (16 ± 2 Nm)

4. Install power harness.

NOTE

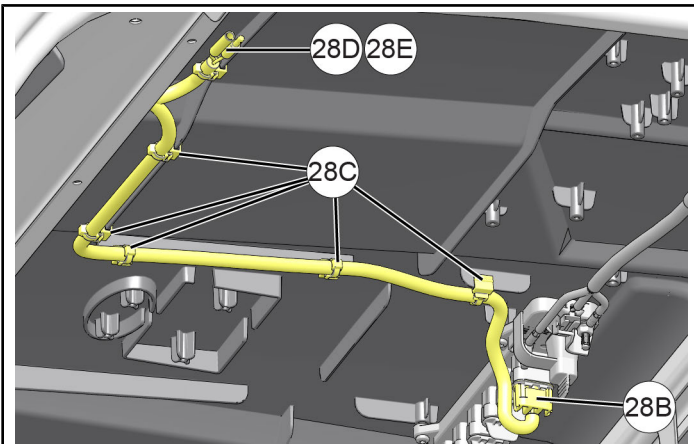
See previous section, **HARNES DETAIL**, for connector identification.

- a. Join connector 16A on wiper motor harness ⑩ to wiper motor connector 28A on power harness ⑳.



- b. Secure connectors 16A and 28A to ROPS visor using edge clips 16B and 28C (one on each side of connection).
- c. Route power harness ⑳ over top of ROPS visor towards accessory terminal block (sold separately).
- d. Join connector 28B to accessory terminal block at any open location, then secure harness ⑳ to roof using five edge clips 28C.

Do not secure bullet connectors 28D and 28E to roof at this time.



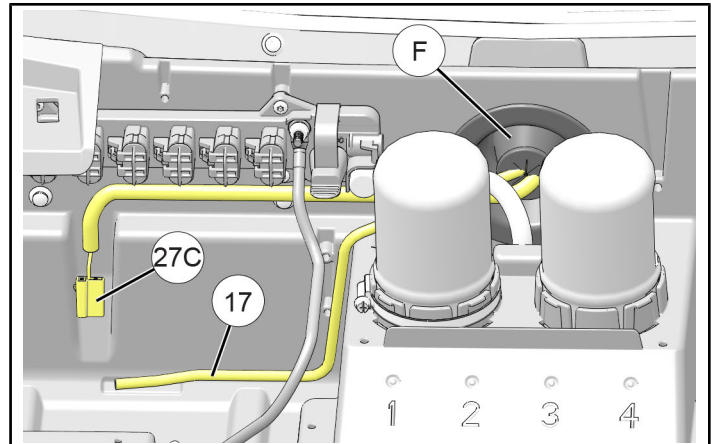
5. Install washer bottle assembly.

- a. Cut washer bottle hose ⑰ approximately 6 inches from wiper housing assembly.

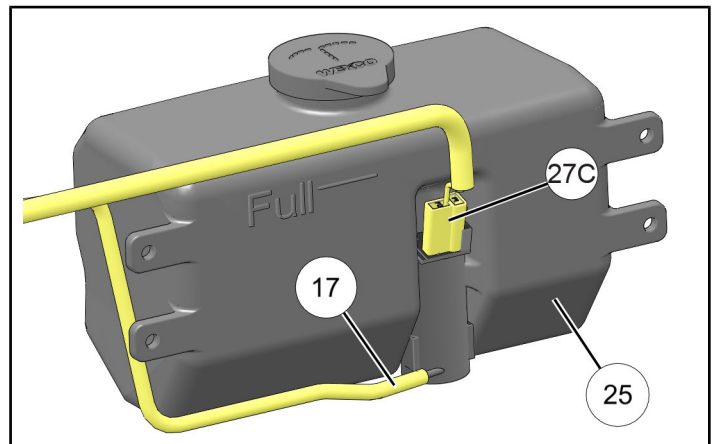
NOTE

Specific cut location is not critical. Cutting and splicing hose facilitates future windshield (and wiper housing assembly) removal.

- b. Reaching through cupholder cutout, route loose length of washer bottle hose ⑰ and connector 27C on A-pillar harness ㉑ from upper dash compartment forward through firewall grommet ㉒ into under-hood compartment.

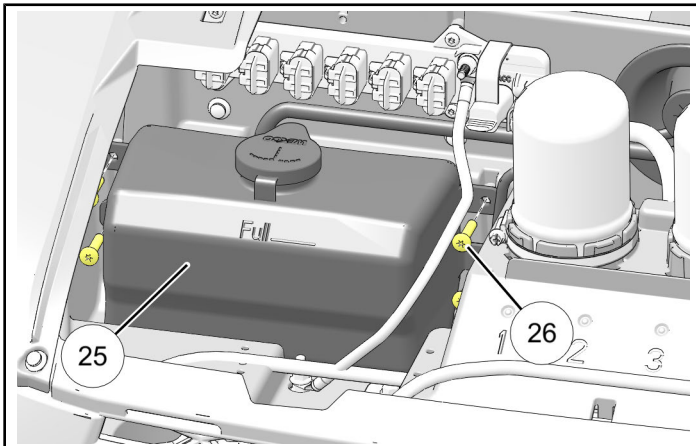


- c. Connect washer bottle hose ⑰ to outlet fitting on washer bottle pump.



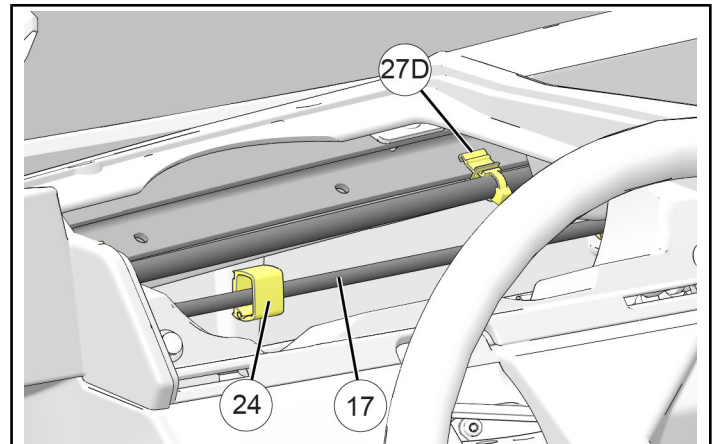
- d. Join harness connector 27C to mating connector on washer bottle pump.

- e. Install washer bottle assembly 25 to firewall using four screws 26. Do not overtighten screws. Ensure washer bottle hose 17 is not pinched.



- b. Route A-pillar harness 27 and washer bottle hose 17 towards LH A-pillar. Reaching through RH side of instrument panel cutout, perform the following:

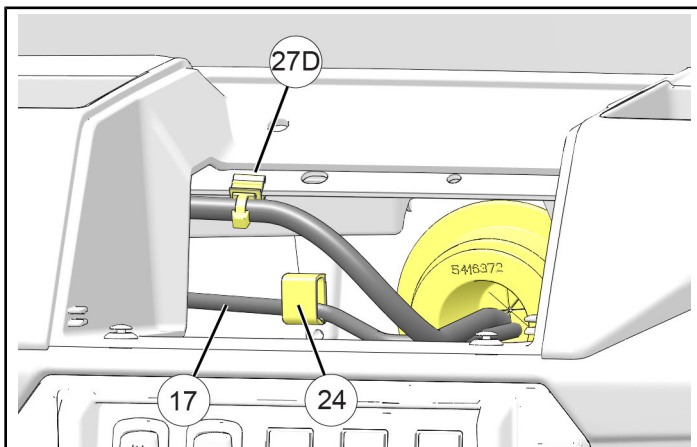
- Secure A-pillar harness 27 to front dash bracket using edge clip 27D.
- Secure washer bottle hose 17 to firewall using hose guide 24: Clean installation surface as required, peel adhesive backing from guide, then press firmly into place.



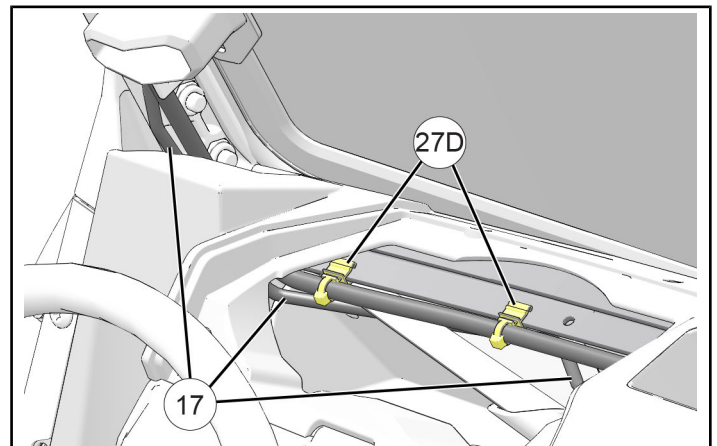
6. Install A-pillar harness and washer bottle hose.

- a. Reaching through cupholder cutout, perform the following:

- Secure A-pillar harness 27 to front dash bracket using edge clip 27D.
- Secure washer bottle hose 17 to firewall using hose guide 24: Clean installation surface as required, peel adhesive backing from guide, then press firmly into place.



- c. Continue routing A-pillar harness 27 and washer bottle hose 17 towards LH A-pillar. Reaching through LH side of instrument panel cutout, secure A-pillar harness to front dash bracket using two remaining edge clips 27D.

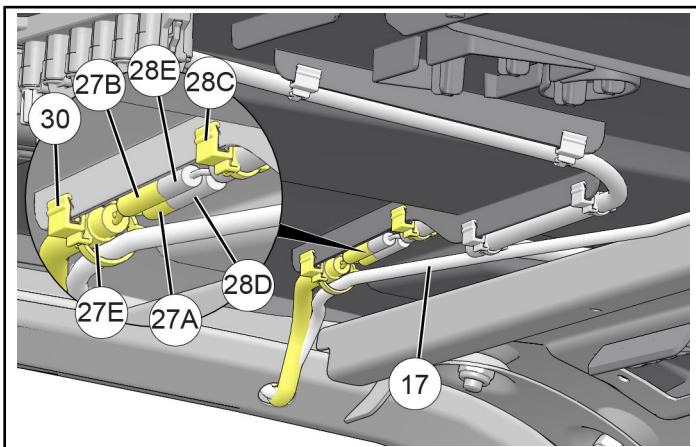
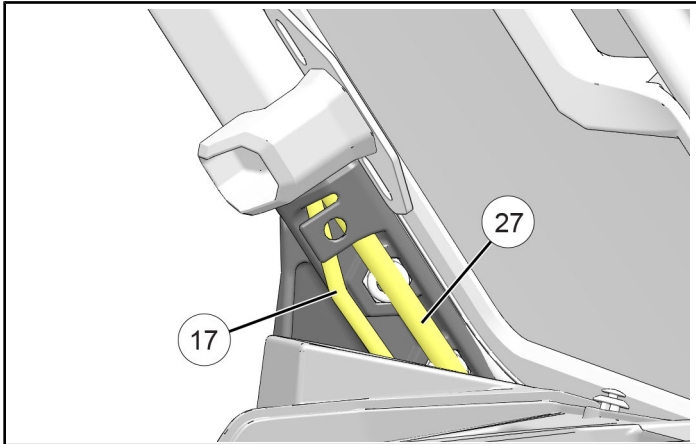


- d. Route two bullet connectors 27A and 27B, and washer bottle hose 17, up through gap between upper dash and ROPS attach fittings.

- e. Tape A-pillar harness 27 to washer bottle hose 17, push both through opening in bottom of A-pillar, then up and out oval hole at top of pillar.

TIP

Use small hook tool to grasp harness connectors and hose through oval hole at top of A-pillar.



- f. Join bullet connectors 27A and 27B on A-pillar harness 27 to mating bullet connectors 28D and 28E on power harness 28.
 - g. Secure end of A-pillar harness 27 and washer bottle hose 17 to roof using edge clip 30 installed over white identification tape 27E.
 - h. Secure end of power harness 28 to roof using remaining edge clip 28C.
 - i. Join cut ends of washer bottle hose 17 with union 29 and two wire spring clamps 20 near wiper housing assembly. Cut and discard any excess hose length.
 - j. Secure washer bottle hose 17 throughout its entire length (ROPS visor, upper dash compartment, and under-hood compartment) using cable ties 31 to prevent contact with sharp edges or moving parts.
7. Restore access.
 8. Fill washer bottle with fluid, turn ignition to "ON", and test system.
 - a. Ensure no fluid leakage at junction of washer hose 17 to pump fitting, at either end of union 29, or at nozzle 5 to wiper motor assembly. Correct as required.
 - b. Ensure adequate spray coverage on windshield. If not, readjust per previous Step 3h.
 - c. Retorque wiper arm nut 6 to specification after 30 minutes of operation.

TORQUE

12 ± 1 ft. lbs. (16 ± 2 Nm)

FEEDBACK FORM

A feedback form has been created for the installer to provide any comments, questions or concerns about the installation instructions. The form is viewable on mobile devices by scanning the QR code or by clicking [HERE](#) if viewing on a PC.

FEEDBACK FORM

