

HEATER KIT



P/N 2881316

APPLICATION

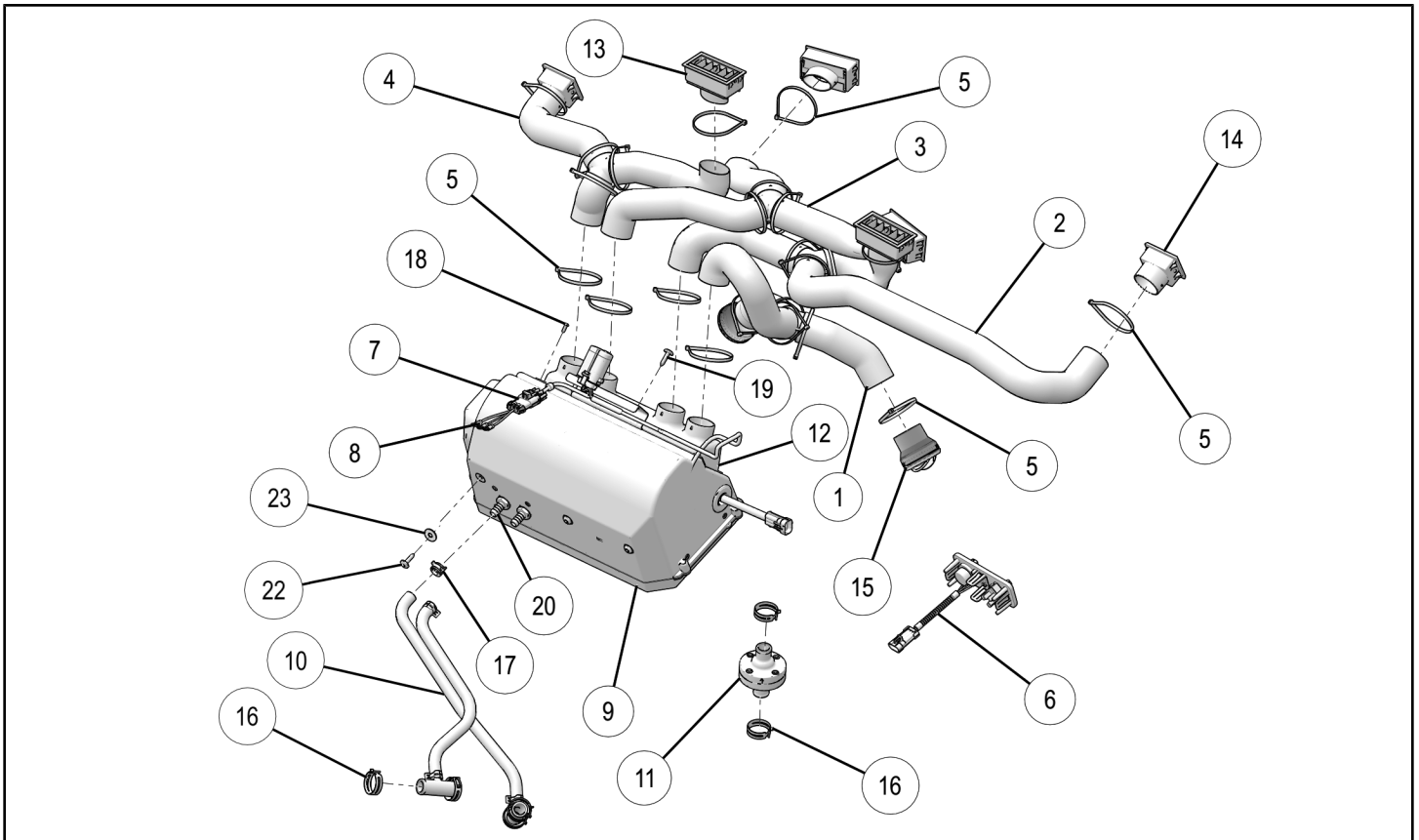
Verify accessory fitment at Polaris.com.

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 includes:



REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Duct Assembly, Lower	2636315
2	1	Duct Assembly, LH	2636314
3	1	Duct Assembly, Center	2636316
4	1	Duct Assembly, RH	2636126
5*	13	Cable Tie, 14 inch	7080761
6	1	Switch Panel	2412947
7	1	Main Heater Harness	2413424
8	1	Adapter Harness	2413447

REF	QTY	PART DESCRIPTION	PART NUMBER
9	1	Heater Core	2636125
10	1	Coolant Hose Assemblies	2636127
11*	1	Thermostat	2636186
12	1	Manifold	5452874
13	4	Vent, Rectangular	5452875
14	2	Vent, Square	5452876
15	2	Vent, Round	5452877
16*	6	Hose Clamp, 1-1/4 inch	7080844
17*	2	Hose Clamp, 20 mm	7081719
18*	2	Screw, Torx® - #10 X 1/2, Hi/Lo	7519091
19*	2	Screw, Torx® - M6 X 1.0 X 25	7519650
20*	2	Fittings, Coolant Line, Male	7052663
21	1	Foam Gasket, Adhesive (not shown)	-
22*	3	Screw, Torx® - M8 X 1.25 X 25	7519728
23*	3	Washer - 8.4 X 24.0 X 2.0	7556045
	1	Instructions	9926845

Items marked (*) are included in Hardware Kit PN 2206237. In addition, this hardware kit also includes PN 8360166–92 bulk air ducting.

TOOLS REQUIRED

- Safety Goggles
- Drill
- Drill Bit; 1/4 inch
- Drain Pan
- Hole Saw, 2-1/2 inch
- Pliers, Hose Pinch-Off (three required)
- Pliers, Slip Joint
- Pliers, Side Cutting
- Pliers, Push Pin
- Utility Knife/Cutting Tool
- Screwdriver Set, Torx®
- Socket Set, Metric
- Socket Set, SAE

CONSUMABLES REQUIRED

- POLARIS Antifreeze 50/50 Premix, 2-4 quarts
- Tape, Thread Sealing

IMPORTANT

Your HEATER 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.

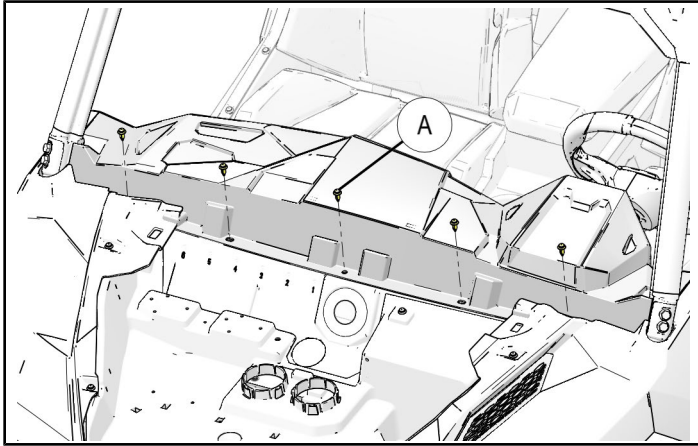
ASSEMBLY TIME

Approximately 4 hours

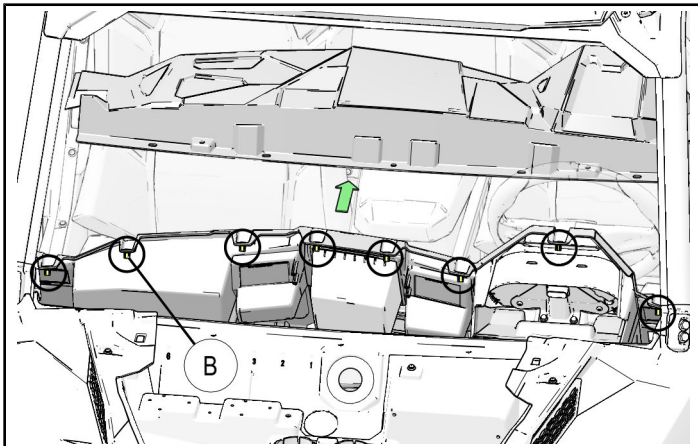
INSTALLATION INSTRUCTIONS

1. Place vehicle in "PARK". Turn key to "OFF" position and remove from vehicle.
2. Gain access.
 - a. Remove hood.
 - b. Remove or open windshield (as applicable).

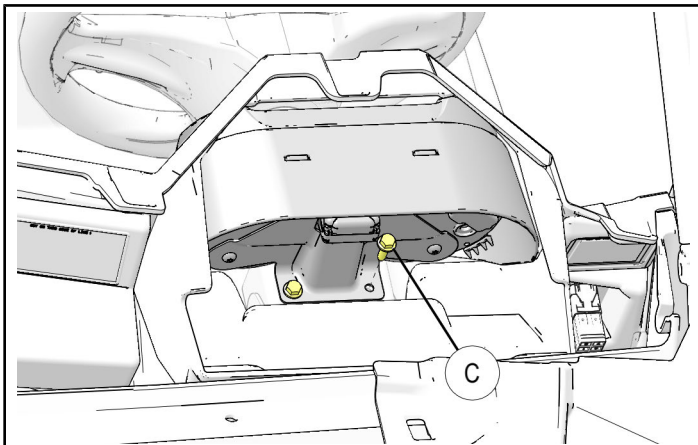
- c. Remove upper dash panel.
 - i. Remove five plastic push pins (A) from forward side of upper dash panel as shown.



- ii. Slide upper dash panel to rear, disengaging eight spring clips (B) as shown.



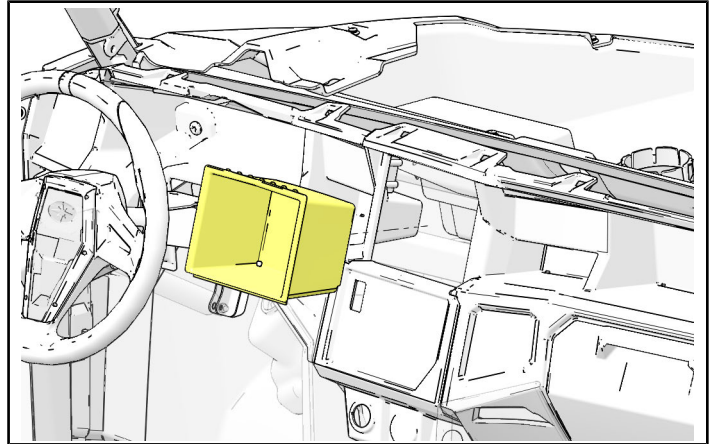
- d. Remove main dash panel.
 - i. Remove two hex head screws (C) securing instrument cluster bracket as shown. Carefully disconnect electrical harness and remove instrument cluster.



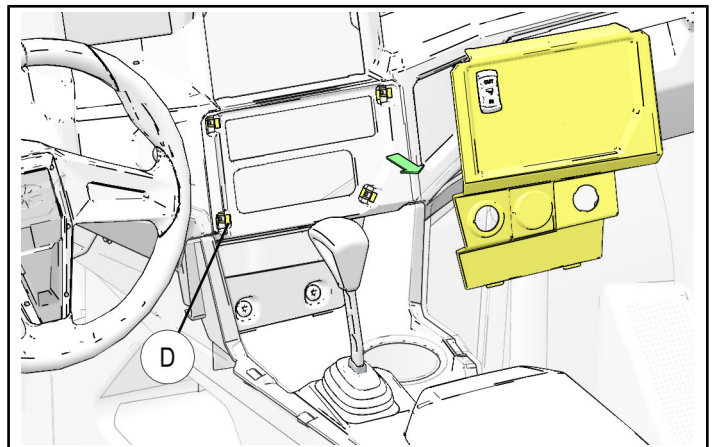
- ii. Using fingers, remove center storage box by pressing top edge of box down, disengaging box locking tabs from main dash panel as shown. Tip box out of dash and remove.

IMPORTANT

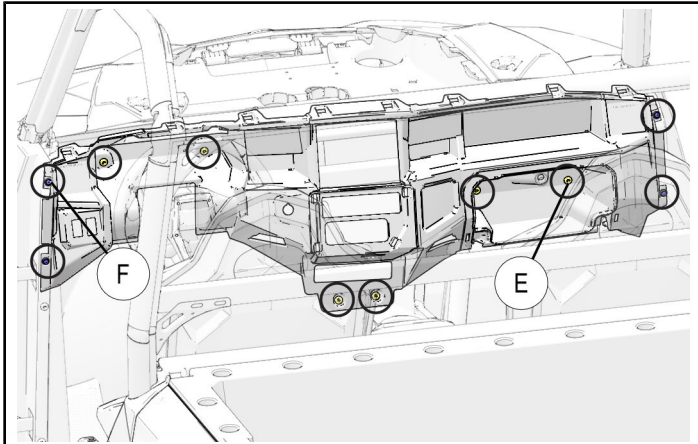
Use only enough force to disengage locking tabs. Excessive force may damage box.



- iii. Using fingers, remove center console control panel by disengaging four spring clips (D) as shown, carefully disconnecting electrical harnesses.



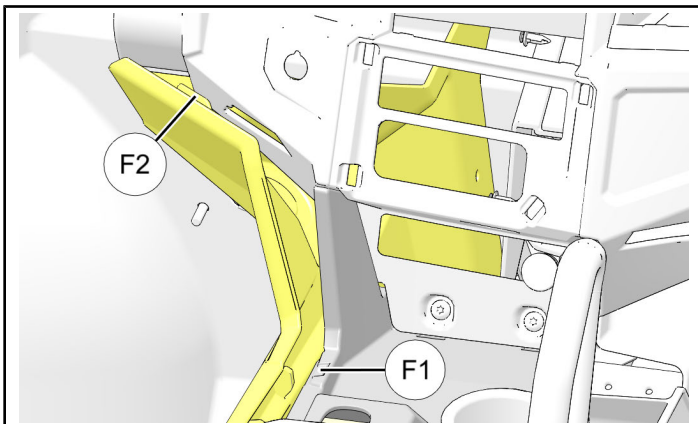
- iv. Remove six screws (E) and four plastic push pins (F) securing main dash panel as shown. Retain screws and pins.



- v. Grasp LH center console side panel, then carefully pull panel outboard and downward to detach tabs at location (F1) and (F2) as shown. Repeat for RH side panel.

NOTE

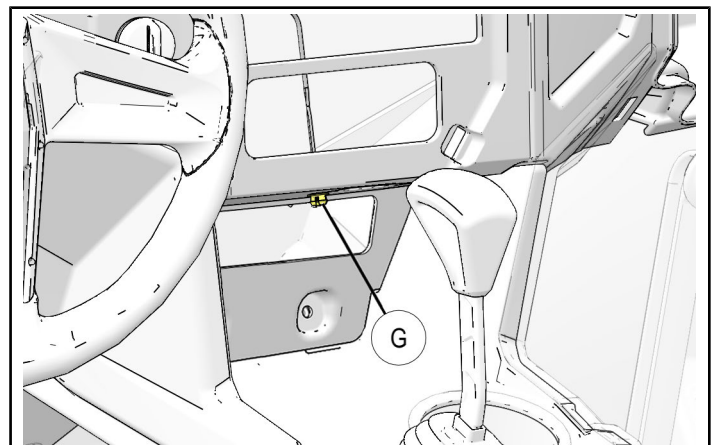
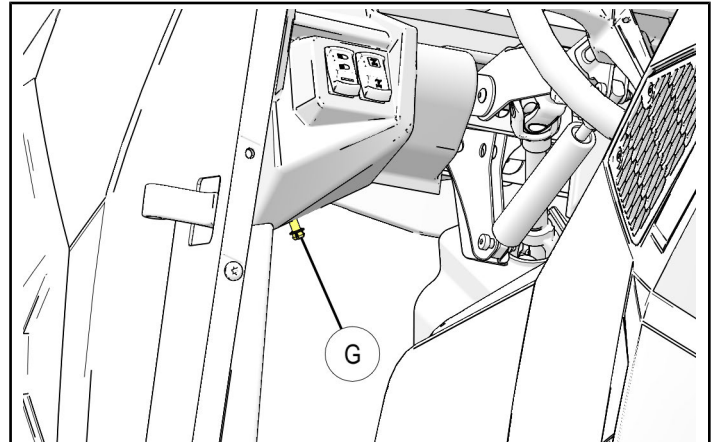
When removing main dash panel in next step, LH and RH center console side panel tabs (F2) may need to be held down to fully detach from main dash panel.



- vi. Remove main dash panel as shown, carefully disconnecting electrical harnesses and three lower interior lights (G).

NOTE

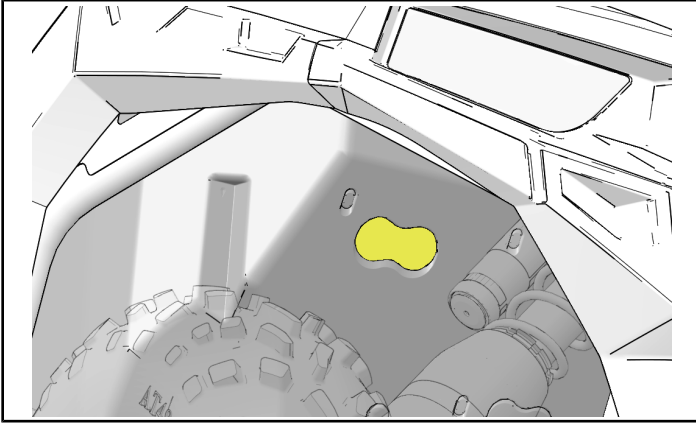
Lower interior lights located inboard of driver and passenger upper door hinges, and at center console control panel.



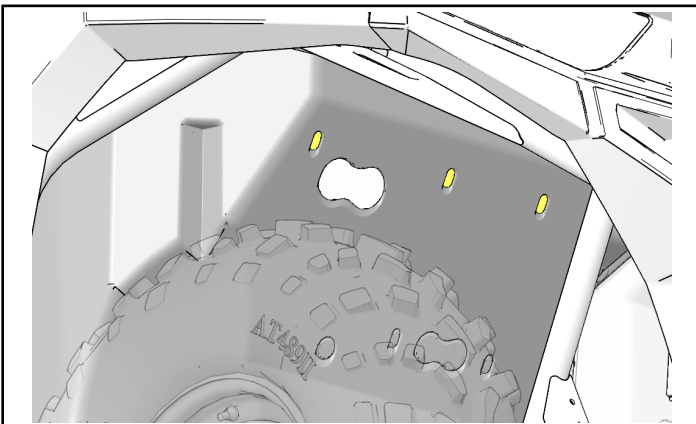
3. Install heater core ⑨.
 - a. Cut figure-eight shaped hole in firewall as shown for coolant line fittings.

IMPORTANT

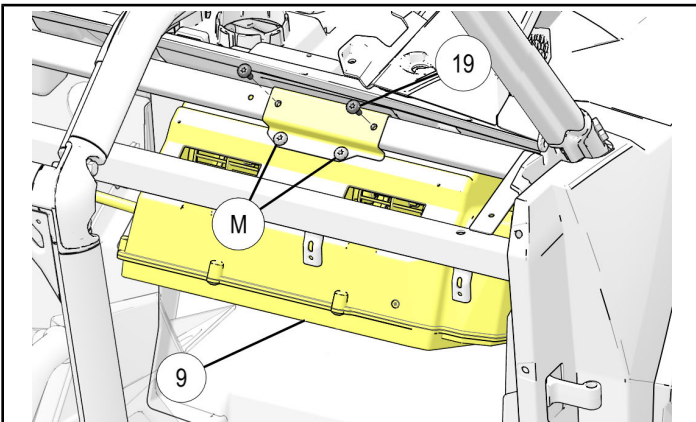
Two figure-eight shaped markings exist in firewall. Ensure ONLY UPPER OUTBOARD marking is cut.



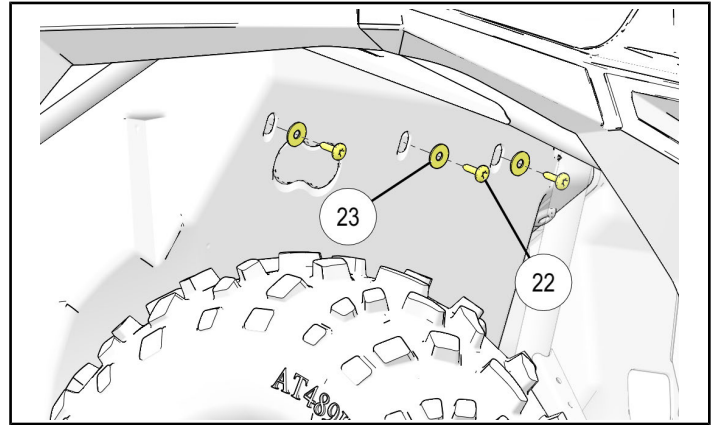
- b. Drill three ¼ inch holes in firewall as shown for heater core attach screws ⑫.



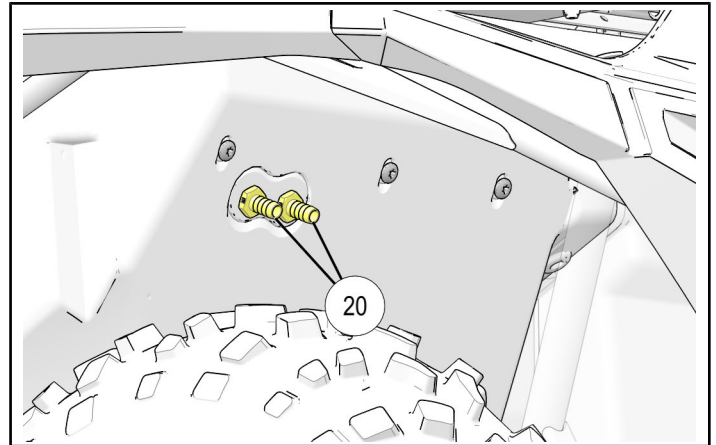
- c. Peel adhesive backing from foam ⑮ and apply to front of heater core, centered over coolant line fitting holes.
 - d. Hang heater core ⑨ on front dash support member. Tighten two screws (M), then loosely install two screws ⑰ as shown.



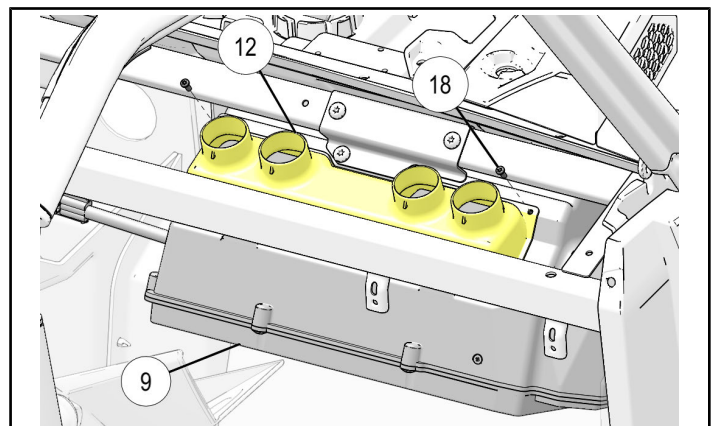
- e. Secure front of heater core to firewall using three each screws ⑫ and washers ⑬ as shown. Tighten screws.



- f. Tighten two screws ⑰ installed in Step 3.d.
 - g. Remove two plugs from heater core, then install two coolant line fittings ⑳ as shown with thread sealing tape. Tighten as required to prevent leaks.



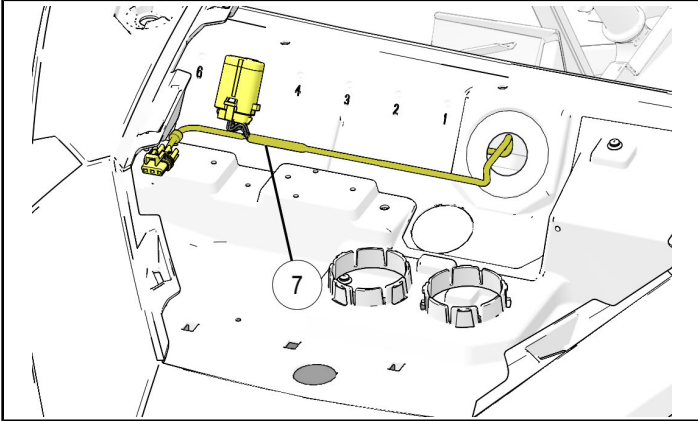
- h. Install heater manifold ⑫ to heater core ⑨ using two screws ⑱ as shown.



4. Route electrical harnesses.
 - a. Route main heater harness ⑦ forward through firewall grommet.

NOTE

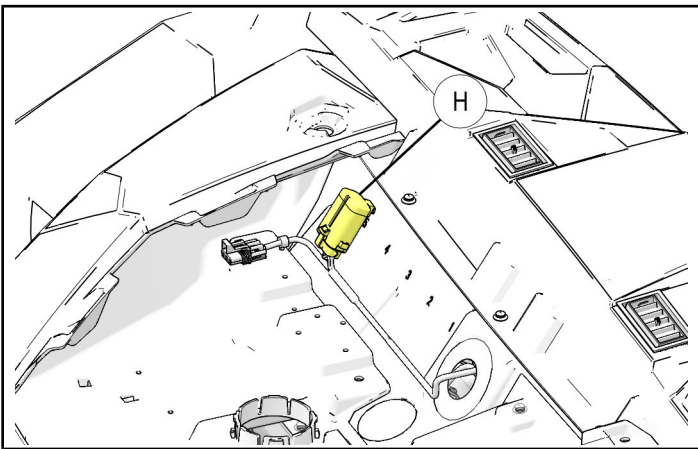
Firewall grommet may be temporarily removed to facilitate harness passage.



- b. On forward side of firewall, drill out one firewall accessory plug (1/4 inch), then install fuseholder (H) as shown.

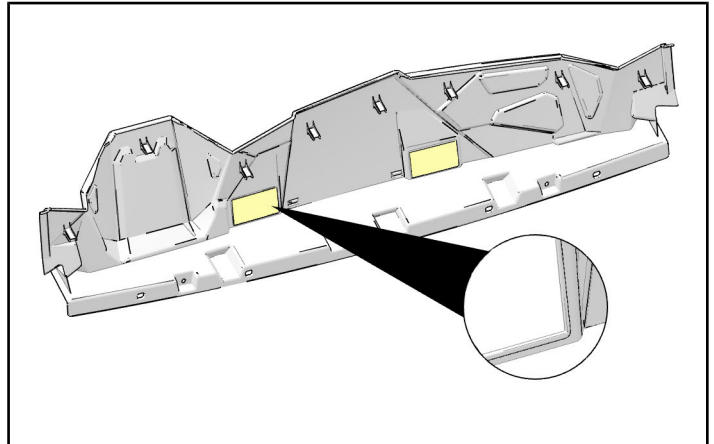
IMPORTANT

Control drill depth to prevent damage to underlying structure or components.

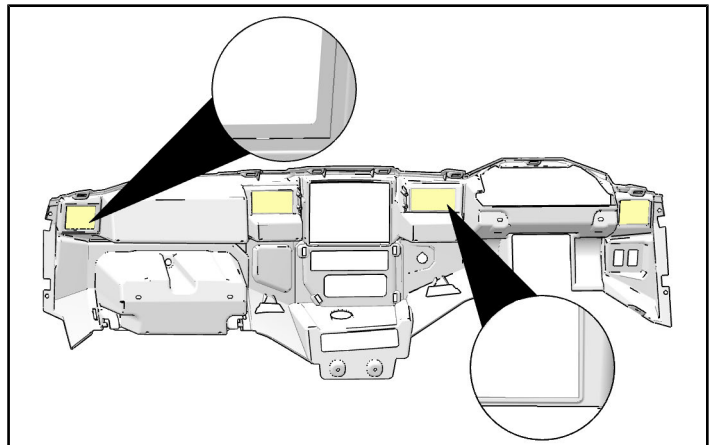


- c. Route switch panel harness rearward towards center console control panel.

5. Cut vent openings.
 - a. Upper dash panel: Cut two rectangular vent openings on INSIDE EDGE of recessed markings as shown.



- b. Main dash panel: Cut two rectangular vent openings and two square vent openings on INSIDE EDGE of recessed markings as shown.

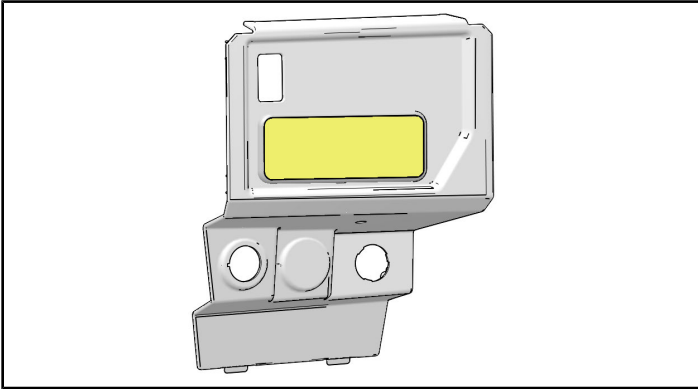


- c. Center console side panels (LH and RH): Using 2-1/2 inch hole saw, cut hole at center of recessed markings as shown.

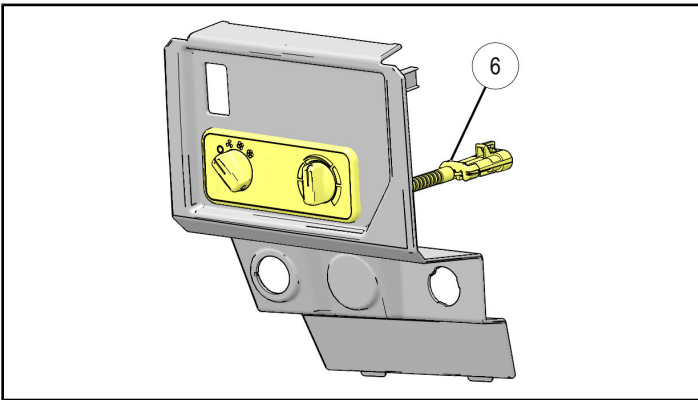


6. Install heater controls.

- a. Cut opening in center console control panel as shown for switch panel ⑥.



- b. Install switch panel ⑥ as shown.

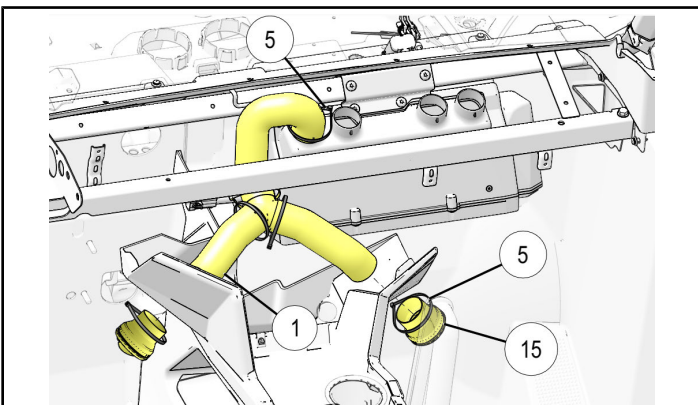


7. Route and secure ducting.

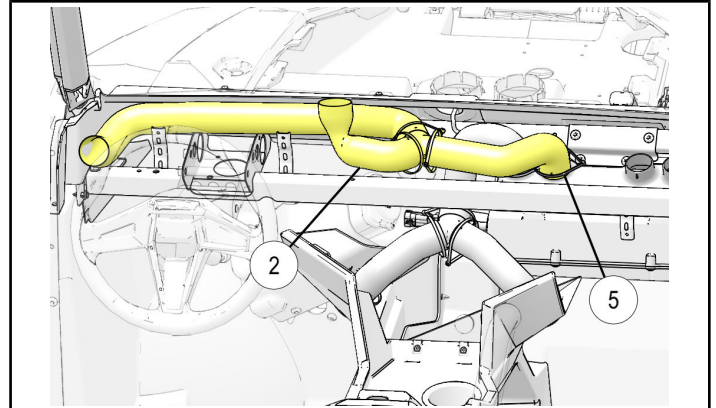
NOTE

Ducts and corresponding heater core outlets are numbered 1-4. Match duct number to heater core outlet number.

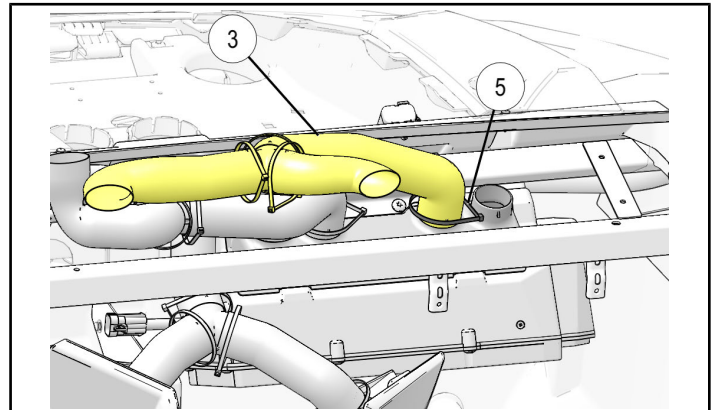
- a. Duct ①: Route from heater core down to LH/ RH lower vent openings as shown. Disassemble vent ⑮ by unscrewing vent outlet from vent body. Attach duct to vent body using cable tie ⑤, insert vent body flush into opening, then thread vent outlet onto vent body. Secure duct at heater core with cable tie ⑤.



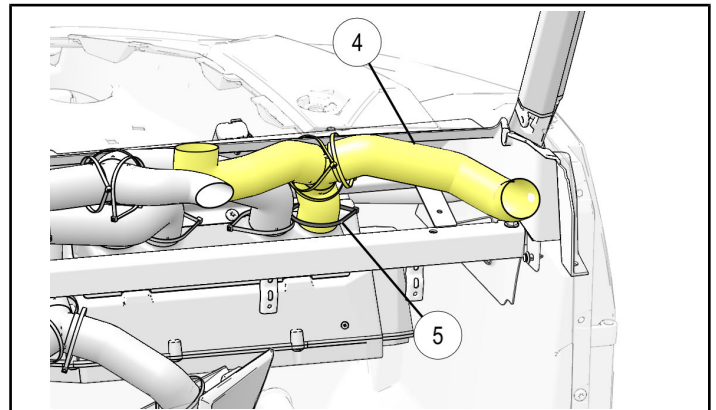
- b. Duct ②: Route from heater core to LH outboard dash and LH defrost as shown. Secure duct at heater core with cable tie ⑤.



- c. Duct ③: Route from heater core to LH/RH inboard dash as shown. Secure duct at heater core with cable tie ⑤.



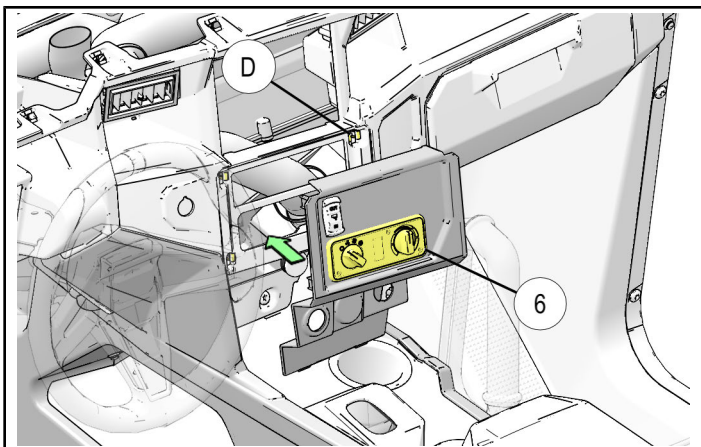
- d. Duct ④: Route from heater core to RH outboard dash and RH defrost as shown. Secure duct at heater core with cable tie ⑤.



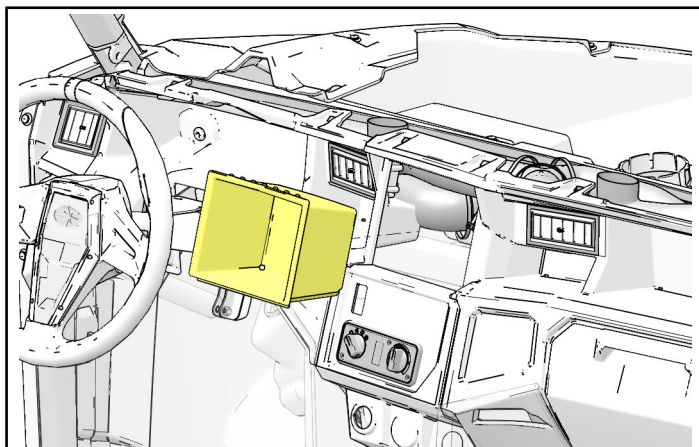
- e. Lift main dash panel into position, carefully pulling ducts ②, ③, and ④ through corresponding dash vent openings. Secure outboard ducts to square vents ⑭ and inboard ducts to rectangular vents ⑬ with cable ties ⑤, then snap vents into openings as shown.



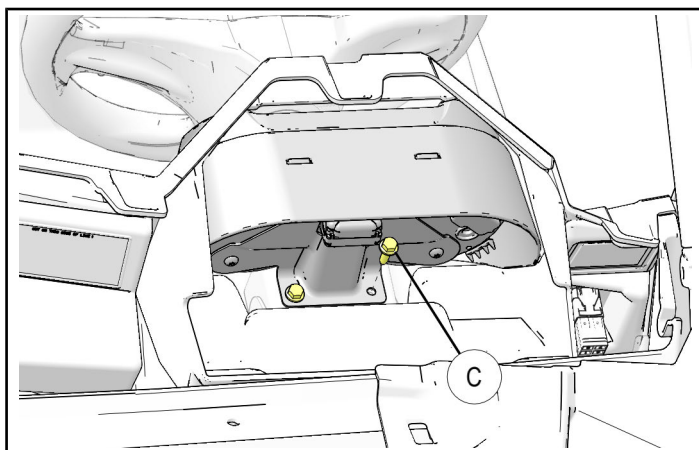
- f. Carefully reconnect electrical harnesses and lower interior lights, then reinstall main dash panel using retained fasteners: four plastic push pins (F) and six screws (E). Reference Step 2d.
- g. Push LH and RH center console side panels back into place, re-engaging tabs (F1) and (F2) as shown in Step 2d.v.
- h. Carefully connect heater switch panel harness to switch panel ⑥, reconnect any other electrical harnesses, then reinstall center console control panel, engaging two lower tabs before engaging upper four spring clips (D).



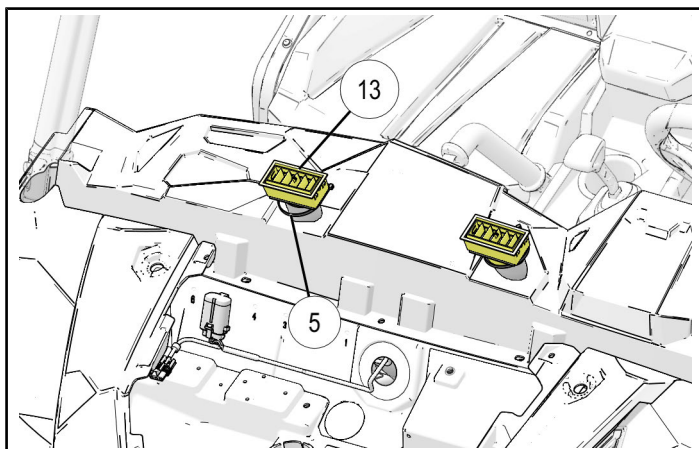
- i. Reinstall center storage box by hooking lower edge of box in dash opening, then tip upper edge of box into dash until locking tabs snap into dash panel.



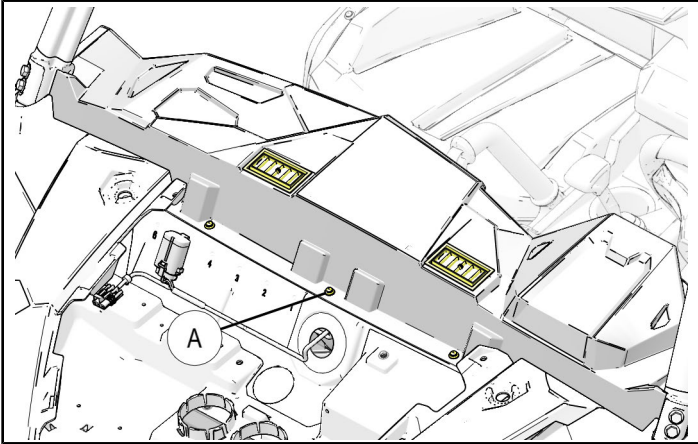
- j. Carefully connect instrument cluster electrical harness, then reinstall instrument cluster using retained hex head screws (C) as shown.



- k. Place upper dash panel into position, carefully pulling ducts ② and ④ through corresponding defrost vent openings. Secure ducts to rectangular vents ⑬ with cable ties ⑤, then snap vents into openings.



- i. Re-engage upper dash panel spring clips and reinstall five plastic push pins (A). Reference Step 2c.



- ii. Position hose assembly ⑩ tee at mark and route opposite end to heater core LH/INBOARD coolant line fitting. Ensure routing will prevent chafing against vehicle components or contact with moving parts, taking into consideration suspension travel and steering operation.
- iii. Ensure tee is still in proper location, then cut hose assembly ⑩ to required length.
- iv. Using two pinch-off pliers, clamp existing hose approximately 4 inches from each side of mark.
- v. Position drain pan as required, then cut and remove 1 inch of hose at mark (0.5 inch on each side of mark).
- vi. Install newly cut hose ends to tee with two 1-1/4 inch hose clamps ⑯ as shown. Ensure tee and clamp orientation will not chafe against vehicle components or make contact with moving parts. Torque clamps to specification.

8. Install cooling system components.

⚠ WARNING

Always wear safety goggles and proper shop clothing when performing this procedure. Failure to do so may result in severe injury or death.

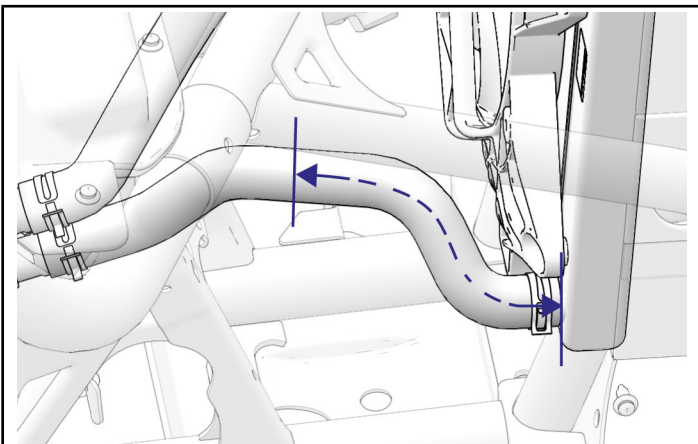
⚠ WARNING

Ensure engine is COOL before performing the following steps. Hot cooling system will be pressurized, and opening system may result in uncontrolled release of hot coolant, resulting in severe burns or other injuries.

- a. Install RETURN/COLD hose assembly.
 - i. Mark existing hose approximately 7 inches from RH/LOWER radiator attach fitting as shown. Ensure marked location provides adequate access for tee installation.

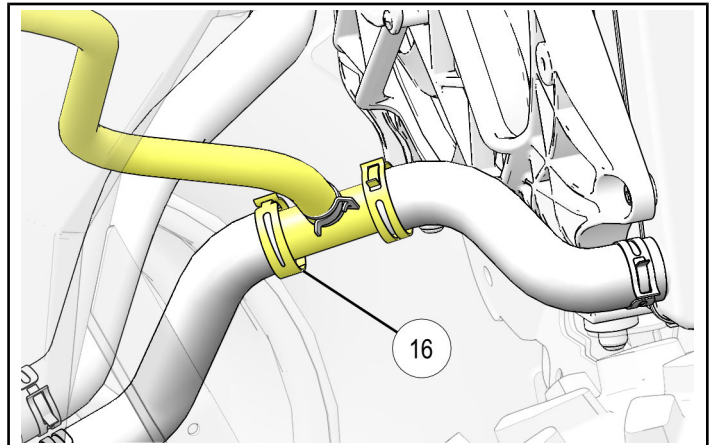
NOTE

Measurement to be taken along hose centerline.



TORQUE

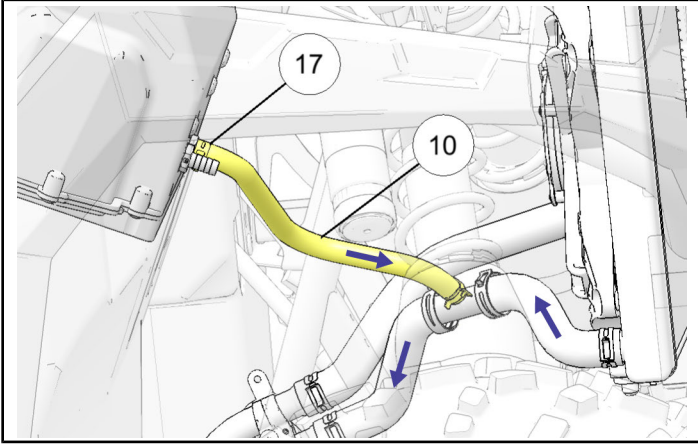
5 ft. lbs. (7 Nm)



- vii. Install hose assembly ⑩ to "OUT" coolant line fitting ⑳ as shown. Ensure hose is fully seated, then secure with 20 mm hose clamp ⑰.

NOTE

Coolant flow direction shown in figure.

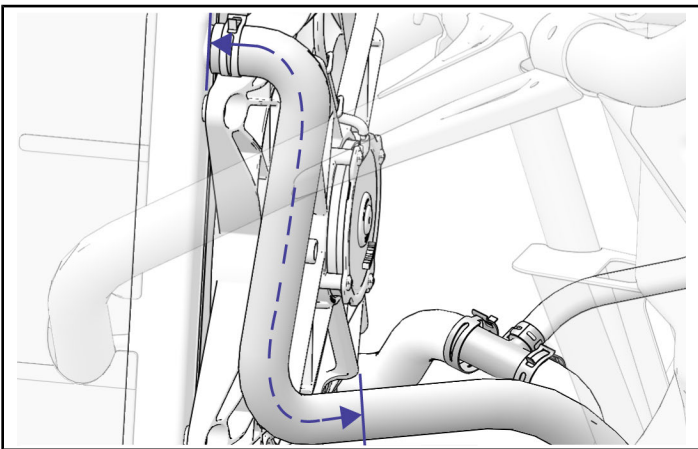


- viii. Install third pinch-off pliers on newly installed RETURN/COLD hose assembly ⑩ to prevent heater core from filling with coolant.

- ix. Remove pinch-off pliers from both sides of tee.

b. Install SUPPLY/HOT hose assembly.

- i. Mark existing hose approximately 18 inches from UPPER/LH radiator attach fitting as shown. Ensure marked location provides adequate access for tee installation.

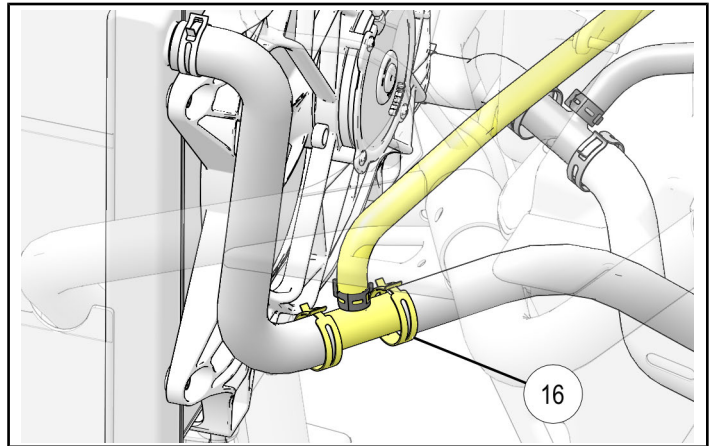


- ii. Position hose assembly ⑩ tee at mark and route opposite end to heater core RH/OUTBOARD coolant line fitting. Ensure routing will prevent chafing against vehicle components or contact with moving parts, taking into consideration suspension travel and steering operation.

- iii. Ensure tee is still in proper location, then cut hose assembly ⑩ to required length.
- iv. Using two pinch-off pliers, clamp existing hose approximately 4 inches from each side of mark.
- v. Position drain pan as required, then cut and remove 1 inch of hose at mark (0.5 inch on each side of mark).
- vi. Install newly cut hose ends to tee with two 1-1/4 inch hose clamps ⑯ as shown. Ensure tee and clamp orientation will not chafe against vehicle components or make contact with moving parts. Torque clamps to specification.

TORQUE

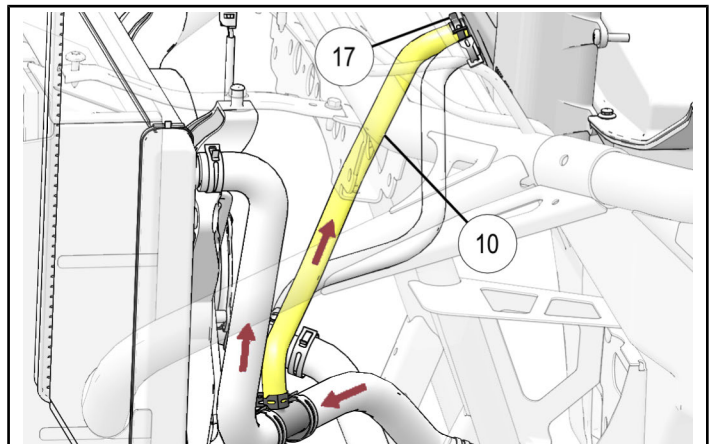
5 ft. lbs. (7 Nm)



- vii. Install hose assembly ⑩ to "IN" coolant line fitting ⑳ as shown. Ensure hose is fully seated, then secure with 20 mm hose clamp ⑰.

NOTE

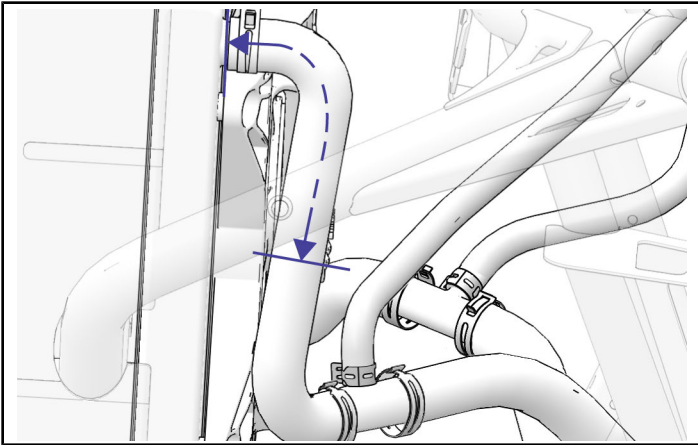
Coolant flow direction shown in figure.



viii. Remove pinch-off pliers from both sides of tee, and from RETURN/COLD hose assembly.

c. Install thermostat in SUPPLY/HOT hose.

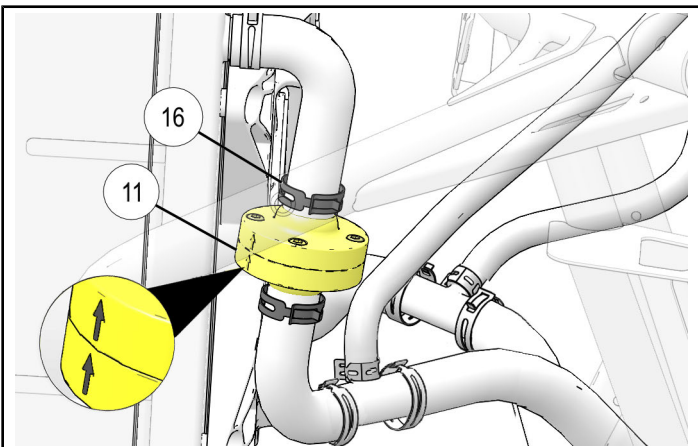
i. Mark existing hose approximately 7 inches from UPPER/LH radiator attach fitting as shown for thermostat installation.



- ii. Using two pinch-off pliers, clamp hose approximately 4 inches from each side of mark.
- iii. Position drain pan as required, then cut and remove 2 inches of hose at mark (1 inch on each side of mark).
- iv. Install newly cut hose ends to thermostat ⑪ with two 1-1/4 inch hose clamps ⑫ as shown. Ensure clamps will not chafe against vehicle components or make contact with moving parts.

IMPORTANT

Ensure thermostat is oriented so ARROW POINTS TOWARDS RADIATOR.



v. Remove pinch-off pliers.

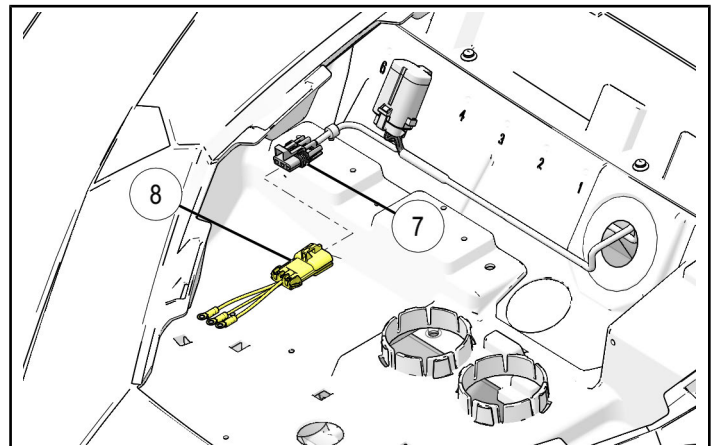
9. Connect main heater harness to terminal block.

FOR VEHICLES WITH SIX POSITION ACCESSORY TERMINAL BLOCK:

Connect main heater harness ⑦ directly to terminal block at any open location.

FOR VEHICLES WITH THREE POST TERMINAL BLOCK:

- a. Remove driver's seat and battery access cover.
- b. Disconnect black negative (-) lead from battery.
- c. Connect adapter harness ⑧ ring terminals to terminal posts as follows:
 - i. Red harness wire to terminal post with existing red wire (unswitched 12V POS)
 - ii. Orange/white stripe harness wire to terminal post with existing orange wire (accessory switched 12V POS)
 - iii. Brown harness wire to terminal post with existing black wire (12V NEG)
- d. Connect adapter harness ⑧ to main heater harness ⑦ as shown.



- e. Reconnect black negative (-) lead to battery.
- f. Reinstall battery access cover and driver's seat.

10. Bleed cooling system.

⚠ WARNING

Always wear safety goggles and proper shop clothing when performing this procedure. Failure to do so may result in severe injury or death.

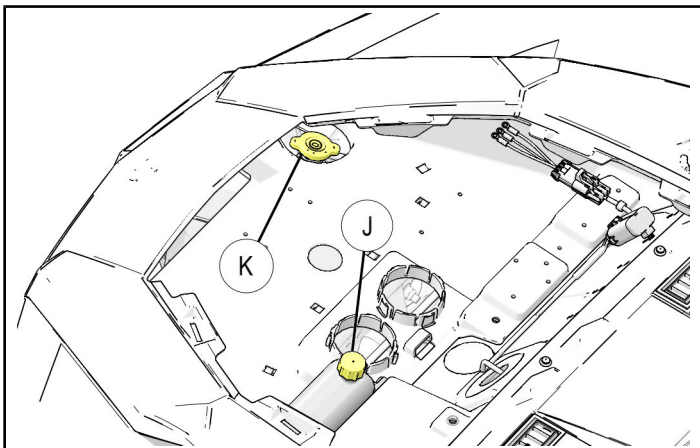
⚠ WARNING

Ensure engine is COOL before performing the following steps. Hot cooling system will be pressurized, and opening system may result in uncontrolled release of hot coolant, resulting in severe burns or other injuries.

NOTE

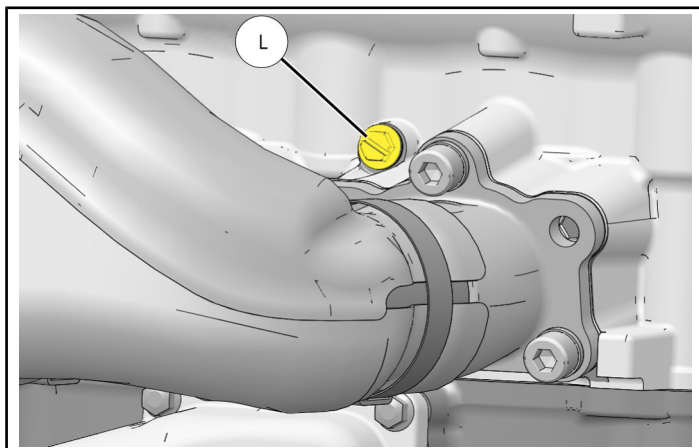
It is suggested two people perform this procedure: one to fill radiator, and one to monitor bleed screw.

- a. Remove coolant recovery bottle cap (J) and radiator pressure cap (K) as shown. Fill recovery bottle to MAX COLD line and radiator to filler neck.



- b. Open heater core valve.
 - i. Turn ignition key to ON position. Do NOT start engine.
 - ii. Turn heater on, and turn fan to high speed. Wait 10 seconds.
 - iii. Turn ignition key to OFF position. Do NOT turn heater or fan off.

- c. Open bed and lift heat shield above front of engine to access coolant bleed screw (L).



- d. Using 5/16 inch socket, loosen bleed screw (L) until escaping air can be heard (approximately 2 full turns). Do not remove bleed screw.
- e. Add Polaris Antifreeze 50/50 Premix to radiator as coolant fills heater system. Stop filling when a steady stream of coolant drains from bleed screw.
- f. Close bleed screw and torque to specification.

TORQUE

89 in. lbs. (10 Nm)

- g. Fill radiator to filler neck and reinstall pressure cap.
- h. Fill coolant recovery bottle to MAX COLD line and reinstall cap.

⚠ WARNING

Do NOT remove radiator pressure cap when system is hot. Hot cooling system will be pressurized, and opening system will result in uncontrolled release of hot coolant, resulting in severe burns or other injuries.

- i. Start engine, leaving heater on and fan set to high speed. Allow engine to idle until radiator fan has cycled two times. While engine is warming up perform the following steps:
 - i. Inspect system for leaks. Repair leaks as required, allowing engine to cool to room temperature before opening system.
 - ii. Monitor engine/coolant temperature. If temperature exceeds 215° F. then immediately shut off engine, allow engine to cool to room temperature, and re-bleed system.
 - iii. Monitor coolant level in recovery bottle. Add coolant as required.

NOTE

If leaks are present cooling system may not draw coolant from recovery tank.

- j. Test heater operation. If inadequate heat is present, re-bleed system.

TIP

Before re-bleeding properly lift and safely support vehicle so front of vehicle is 12-18 inches higher than rear of vehicle. Elevation will increase effectiveness of bleed process.

- k. Allow engine to cool to room temperature and then perform the following:
 - i. Remove coolant recovery bottle cap (J) and radiator pressure cap (K), then fill recovery bottle to MAX COLD line and radiator to filler neck. Reinstall caps.
 - ii. Push engine heat shield back into position and close bed.
11. Reinstall windshield (if removed).
12. Reinstall hood.