

Kawasaki

Assembly Instructions



Model:	MULE PRO MX
Description:	Heater Kit
Part Number:	99994-1163
Assembly Time:	120 Minutes

Before you begin, read through these instructions and check that all parts are present.

Please note that Kawasaki cannot assume any responsibility for damage resulting from incorrect installation.

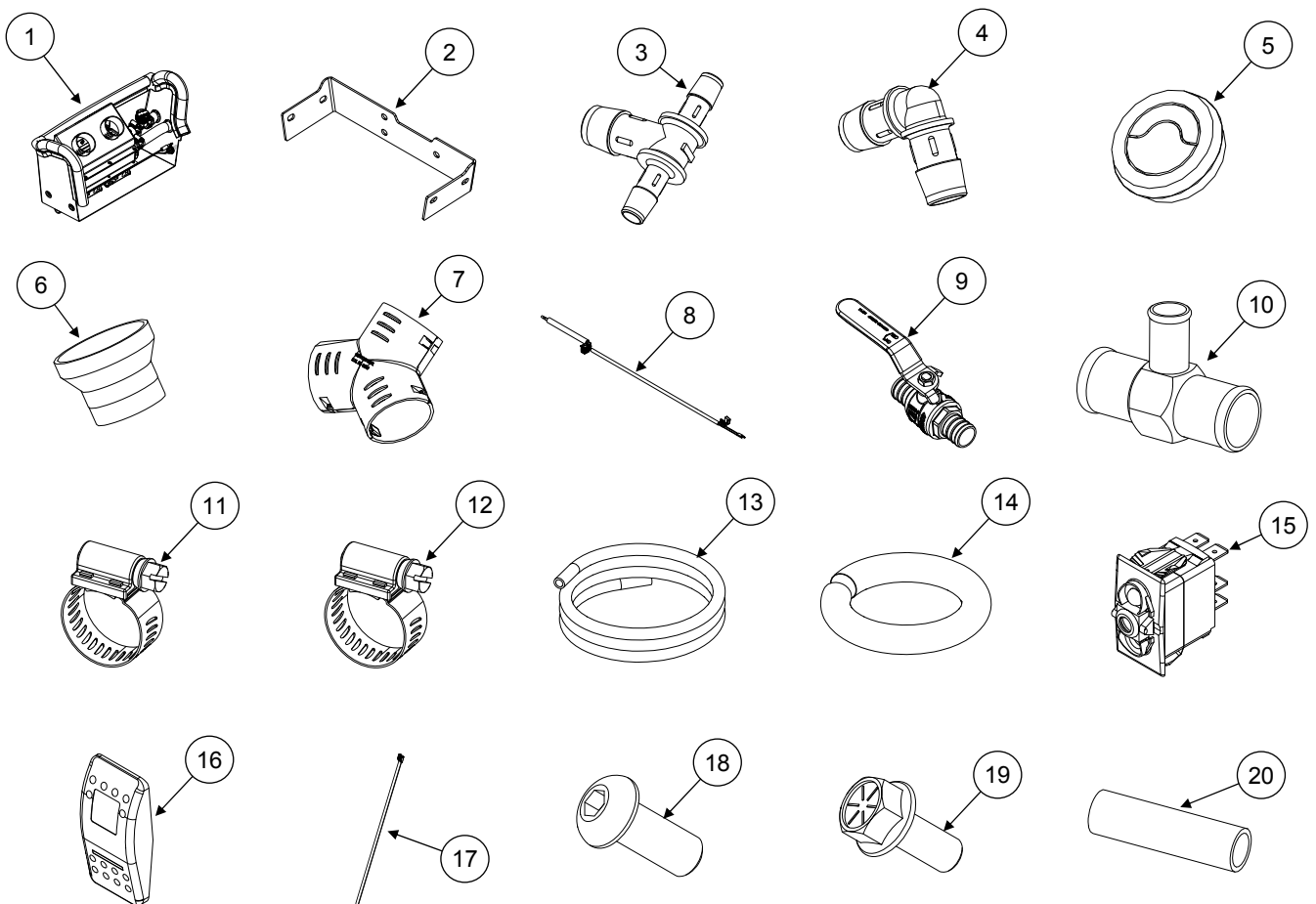
Kawasaki recommends that all genuine accessories should be fitted by an authorized Kawasaki dealer.

The following symbols indicate the information for proper installation and operation in this instruction.

 DANGER	: DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	: WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
NOTICE	: NOTICE is used to address practices not related to personal injury.

- Indicates a procedural step or work to be done.

Parts List			
No.	Component Name	Qty	Remark
1	Heater Box	1	
2	Mounting Bracket	1	
3	Plastic T-fitting	1	3/8" x 5/8"
4	90° Hose Elbow	2	5/8" x 5/8"
5	Heater Louver Vent	3	2.7" OD
6	Hose Adapter	3	2" Hose
7	Y-fitting	1	2" x 2" x 2"
8	Wire Harness	1	
9	Shut-off Valve	1	
10	Metal T-fitting	1	
11	Hose Clamp	10	1"
12	Hose Clamp	4	1.5"
13	5/8" Heater Hose	1	10 ft
14	2" Heater Duct	1	5.5 ft
15	Heater Switch	1	
16	Switch Cover	1	
17	Band	19	11"
18	Button Head Screw	3	M8x1.25 x 20mm
19	Hex Head Screw	4	5/16-18 x 3/4"
20	7/8" Loom	1	4"



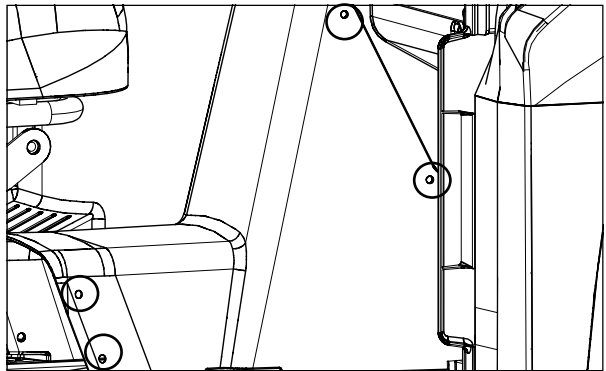
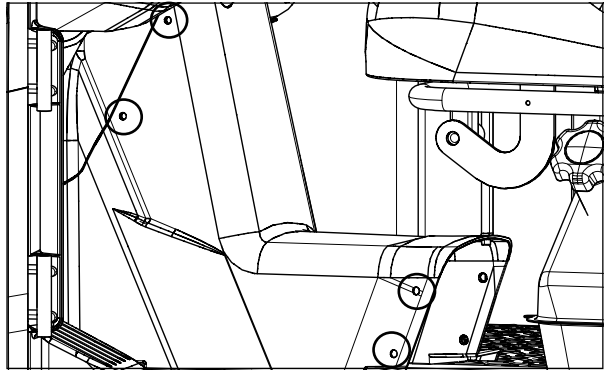
Installation Instructions

- Park the vehicle on level ground, set the parking brake, turn off the ignition switch.
- Disconnect the negative battery terminal.

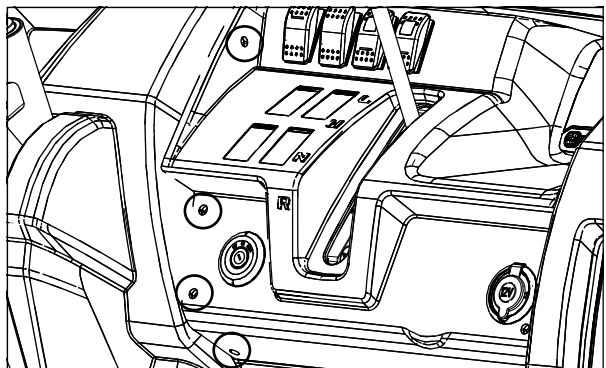
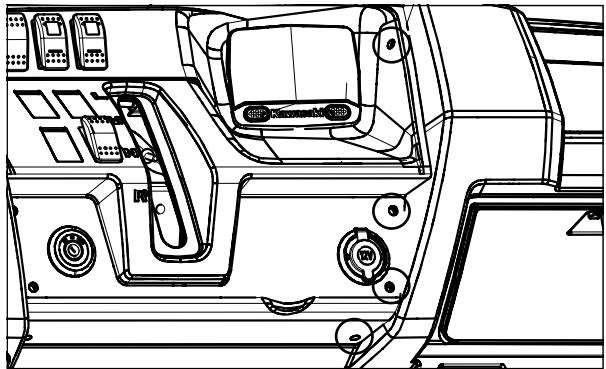
⚠ DANGER

Failure to disconnect battery may run the risk of electrocution.

- Remove the eight plastic rivets which retain the center tunnel. Four plastic rivets on the driver's side and four on the passenger's side.

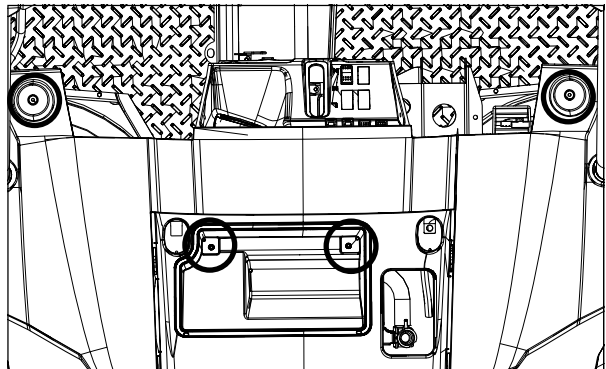
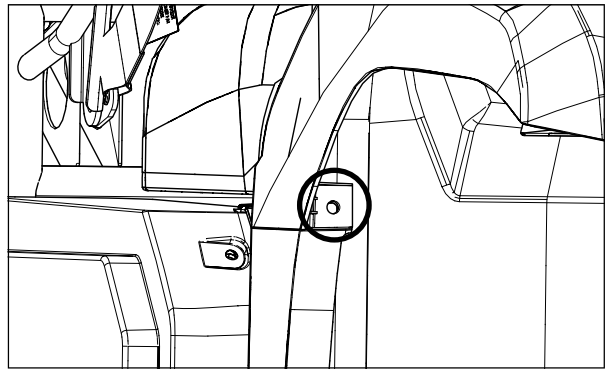
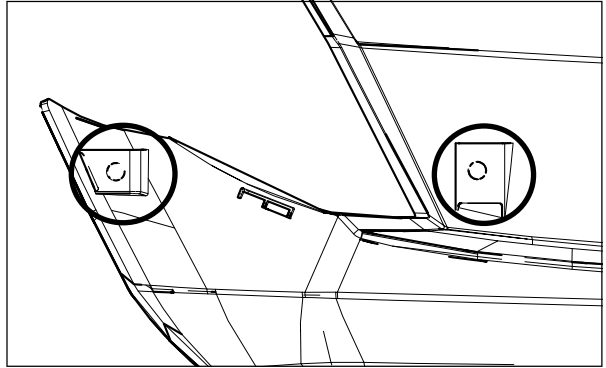


- Remove the eight plastic rivets (four per side) that retain the center dash panel as shown.

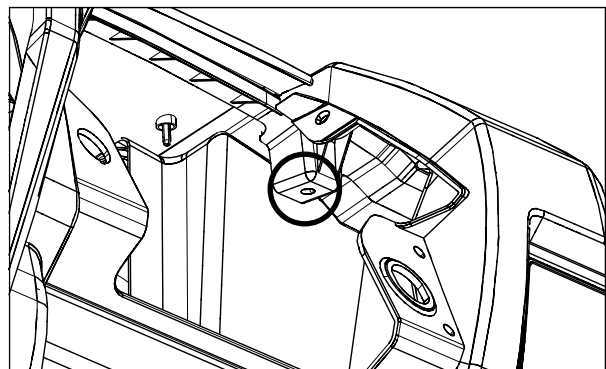


Installation Instructions

- Remove the four plastic rivets (two found in each wheel well by headlights), the screw found at the rear portion of the vehicle's wheel well retaining the hood (one per side), two bolts located one in each of the vehicle cup holders, and two bolts found at the bottom of the hood compartment.



- Remove two plastic rivets found under the hood, behind the removed dash panel. One located on each side.
- Retain all hardware to reinstall at end of installation.



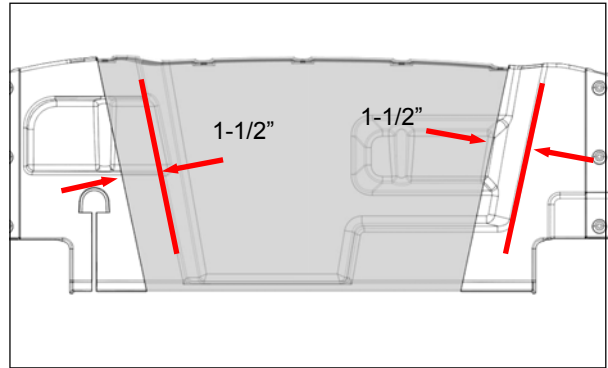
Installation Instructions

- With the hood fasteners removed, have an assistant help raise the hood up along the front ROPS tubes and tie up out of the way with bungee cords or rope.

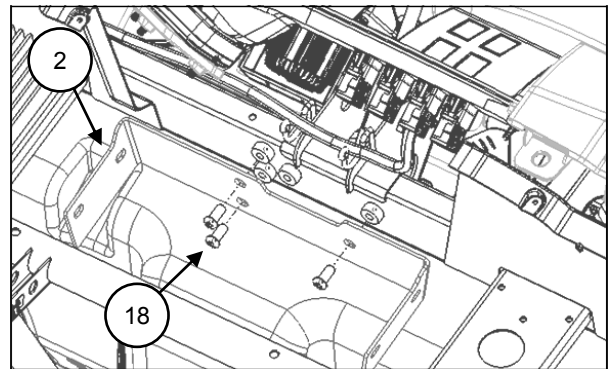
⚠ WARNING

Recommend using 2 or more people to remove or install hood to reduce risk of personal injury.

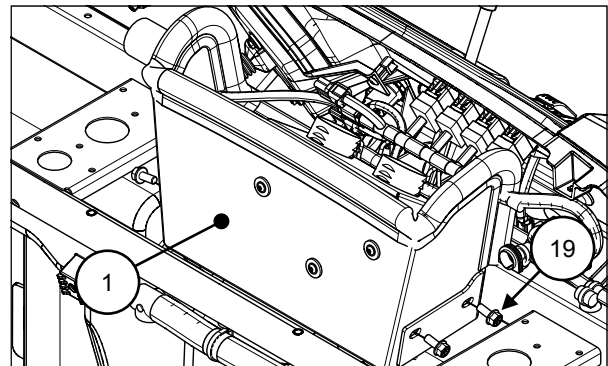
- Cut the rubber flap which hangs from the underside of the hood as shown.



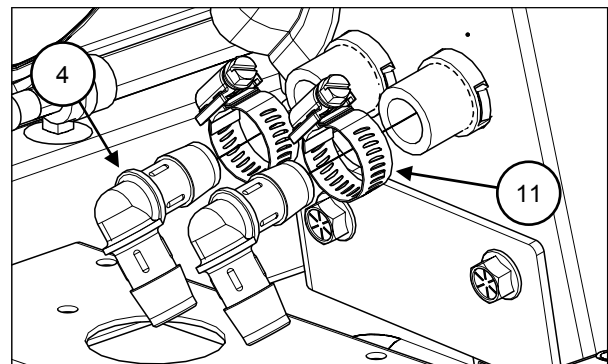
- Install mounting bracket (2) to the vehicle with three supplied M8x1.25, 20mm long button head screws (18).



- Position the heater box (1) down into the previously installed heater box mounting bracket. Fasten with the four supplied 5/16-18 x 3/4" long hex flange bolts (19).

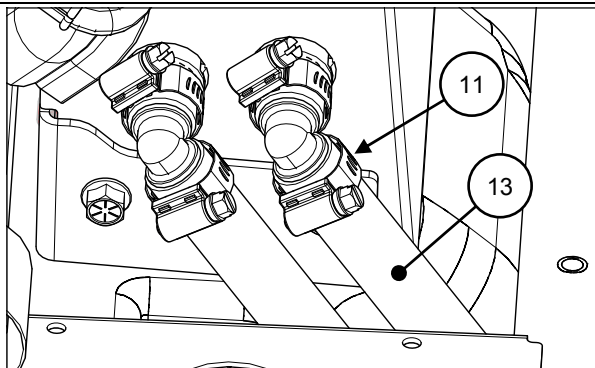


- Take two supplied 90° hose elbows (4) and attach them into hose ends protruding from heater box (1). Rotate 90° hose elbows (4) 30° toward the interior face of the heater box (1) as shown. Secure using 1" hose clamps (11).

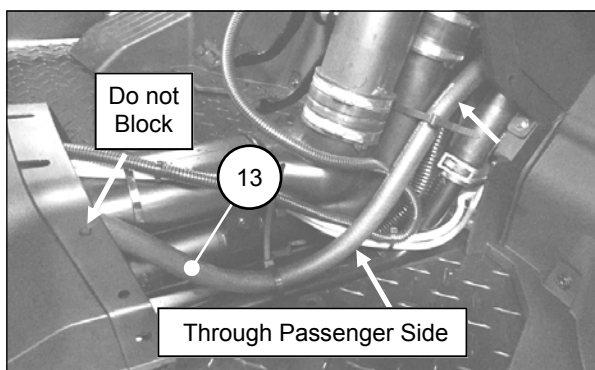


Installation Instructions

- Locate the supplied 10' length of 5/8" heater hose (13). Cut off two sections of hose measuring 21" in length and attach to elbows connected in previous step. Secure using 1" hose clamps (11).



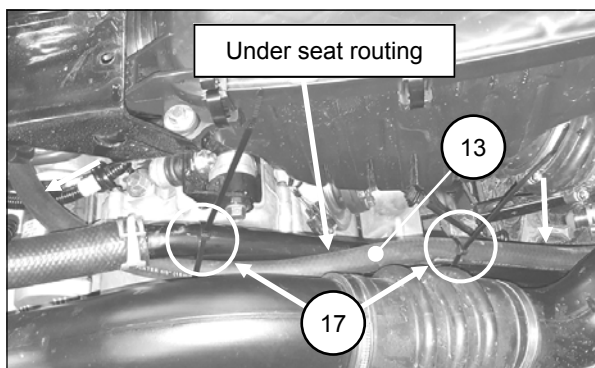
- Starting under the hood, route one remaining length of heater hose (13) down between the steering rack and front axle into the "exposed tunnel" area of the operator's compartment while keeping to the passenger's side from the front driveshaft.



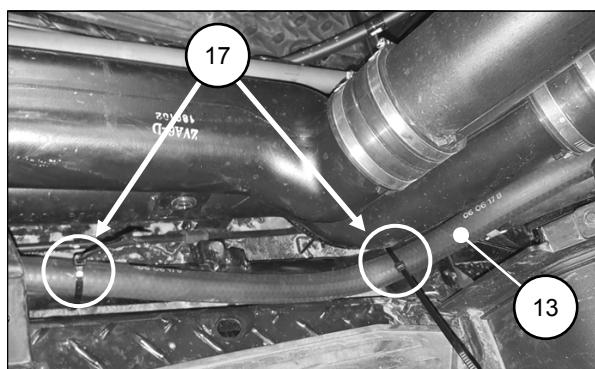
- Secure heater hose (13) in engine compartment with bands (17) in locations shown. These can be accessed beneath the seat by lifting the bed.

NOTICE

Image is shown with seat, lower rear panel, and under seat plastics all removed for clarity. This is not required for hose installation.



- Secure all heater hoses (13) and 2" heater duct (14) in the following locations with remaining bands (17).
- Secure heater hose (13) under center tunnel with bands (17) in locations shown.



Installation Instructions

⚠ DANGER

Be sure engine has had sufficient time to cool before proceeding. Fluid can be hot and cause burns.

- Use clamps placed at least 3" apart to pinch lower radiator hose.
- Splice the supplied metal T-fitting (10) into lower radiator hose between clamps as shown. Secure using 1-1/2" supplied hose clamps (12).
- Connect hose from heater box that is closer to the front of the vehicle into T-fitting (10) installed in previous step and secure using 1" hose clamp (11).

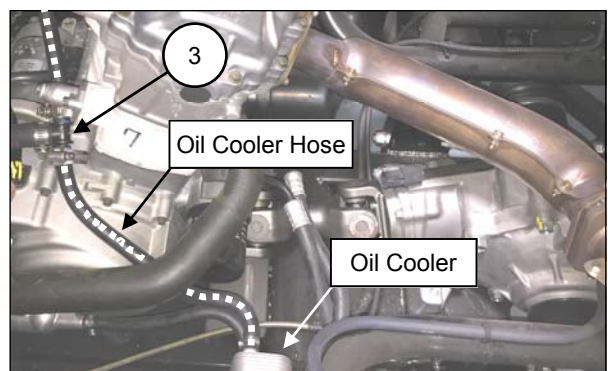
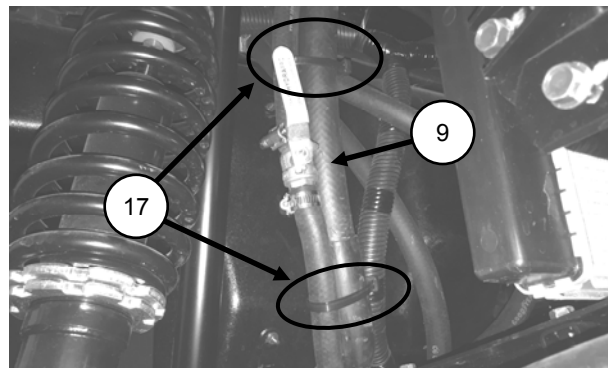
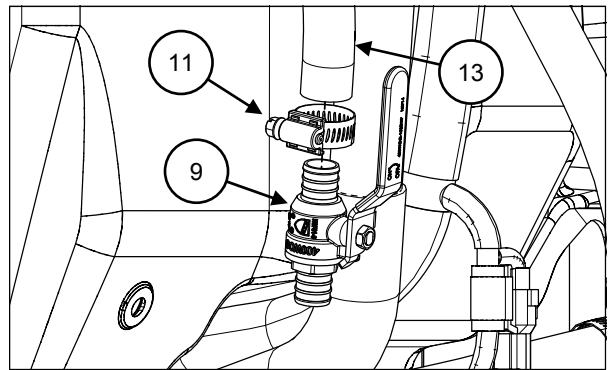
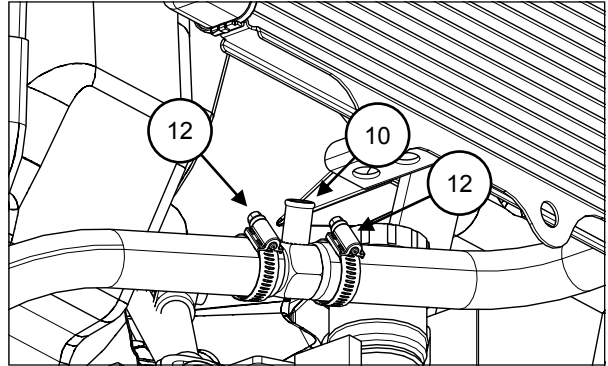
NOTICE

Do not remove pinching clamps until instructed.

- Attach supplied shut-off valve (9) to remaining section of hose coming heater box (1) and secure with 1" hose clamp (11).
- Connect heater hose (13) running to rear of vehicle to other end of in-line shut-off valve (9) and secure with 1" hose clamps (11).

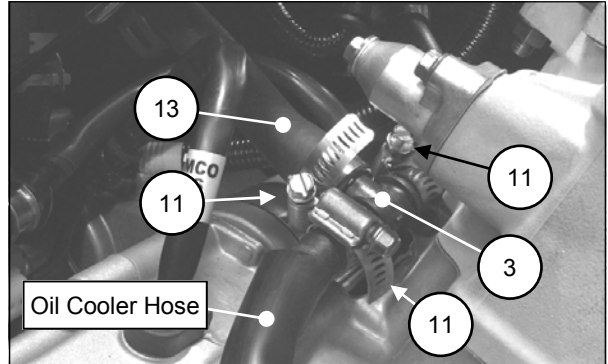
- Secure to radiator hose with bands (17) above and below shut-off valve (9) in locations shown.

- Raise cargo bed and locate the oil cooler supply hose that runs from the thermostat to the oil cooler. Add 2 clamps to pinch the hose shut at least 3" apart in the location of the T-fitting (3) as shown.

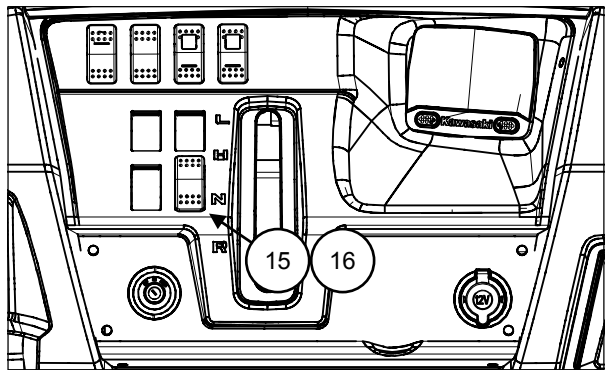


Installation Instructions

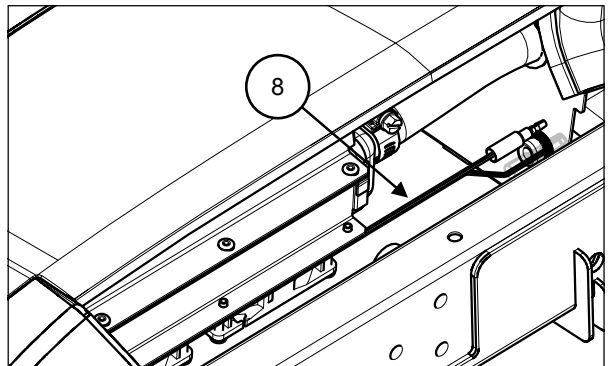
- Splice in plastic T-fitting (3) into oil cooler hose between clamps. Secure using supplied 1" hose clamps (11).
- Connect end of lone heater hose (13) in engine compartment to plastic T-fitting (3) and secure using supplied 1" hose clamp (11).



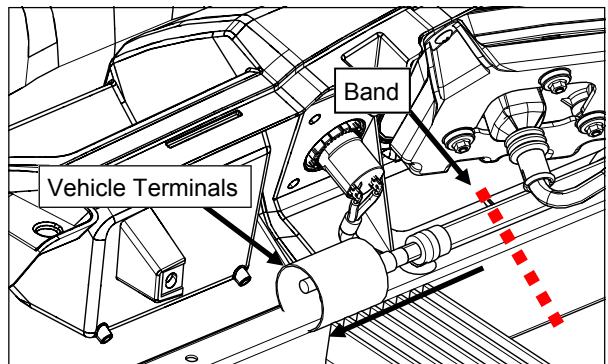
- Cut a knock-out plate from the dash panel in order to mount the heater switch (15). Place supplied heater switch into dash panel.
- Attach switch cover (16) onto heater switch (15) installed in dash.



- Connect bullet terminals on the end of the wire harness (8) (that does not contain an in-line fuse holder) to bullets found on the fan's lead.

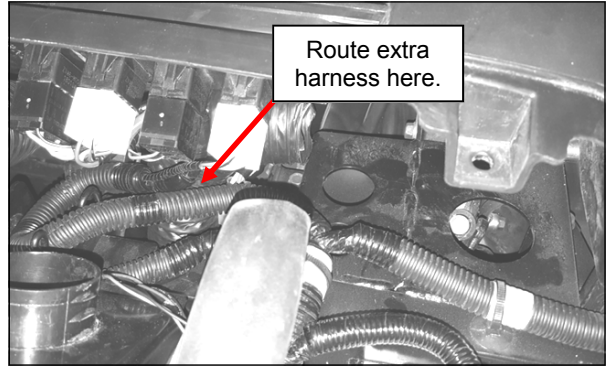


- Route wire harness (8) along the vehicle's frame to the accessory power source found on the passenger's side of vehicle. Secure to vehicle frame with band (17) as shown.
- Roll back the 12-volt accessory power source protective boot, exposing the wires.
- If there are no other accessories already installed, connect the female bullet on the orange (vehicle) wire to the male bullet terminal on the red (harness) wire and male bullet terminal on the black with yellow stripe (vehicle) wire to female bullet terminal on the black (harness) wire.
- If there are other accessories installed or being installed, use an optional Y connector (p/n: 99994-1165) purchased separately.
- Connect the wire harness (8) to the heater switch (15).



Installation Instructions

- Route any extra harness as shown.

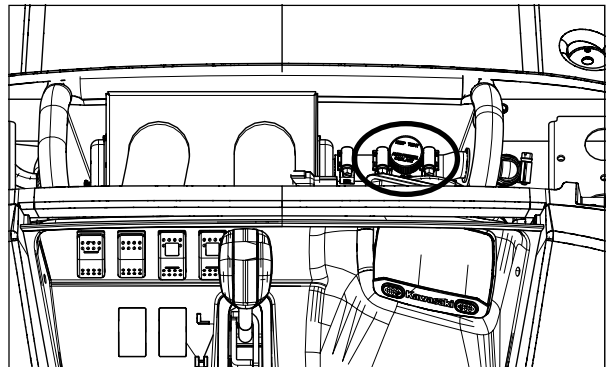
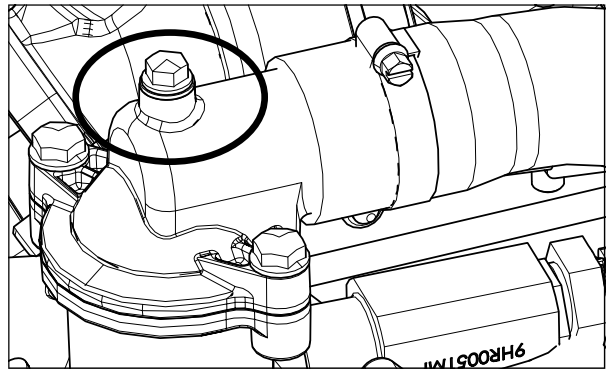


- Loosen the bleeder screw at the thermostat housing.
- Remove the cap from the bleeder fitting found in the heater box assembly.
- Refill radiator with clean coolant, watch both bleeders and close once coolant is present.

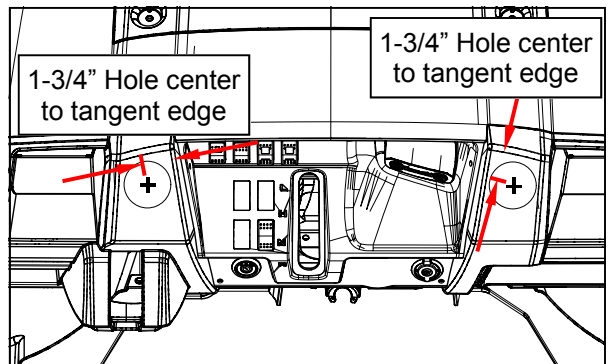
⚠ DANGER

Be sure engine has had sufficient time to cool before removing hose. Fluid can be hot and cause burns.

- Reconnect the negative battery terminal. Run vehicle to circulate coolant, top off radiator and reservoir as needed.

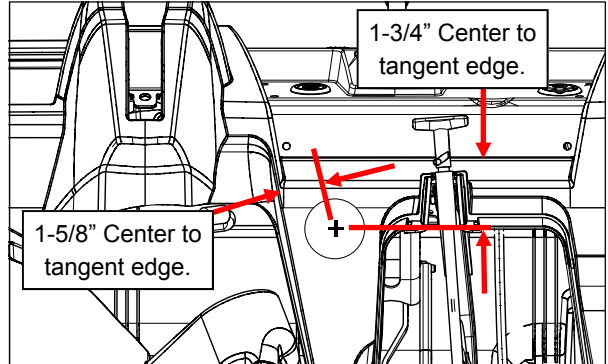


- Mark and drill the dash panel for the heater louver vents (5) using a 2.5" hole saw as shown.

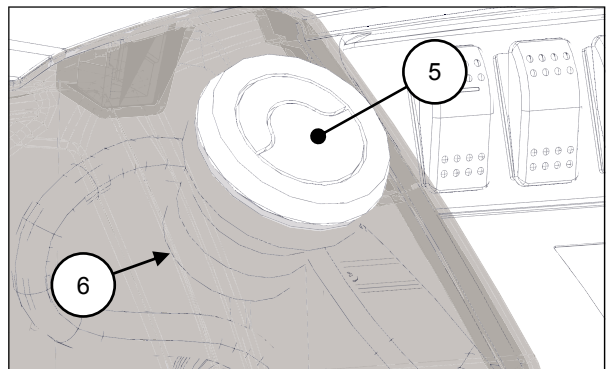


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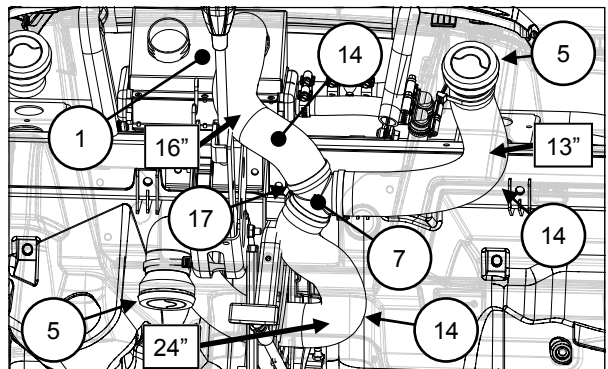
- Mark & drill the driver's side lower dash panel for the heater louver (5) vent using a 2.5" hole saw as shown.



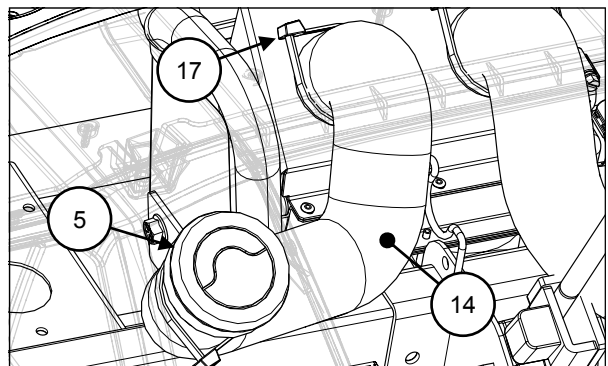
- Mount a supplied heater louver vent (5) in each of the 2.5" holes. Secure by attaching hose adapters (6) to back of heater louver vents (5) under the dash panel.



- Cut four lengths of the 2" heater duct (14) to approximately one 13" section, one 16" section, one 18" section, and one 24" section.
- Connect one 24" section and one 13" section and one 16" section of 2" heater duct (14) to the Y-fitting (7) and secure with bands (17).
- Route the ducting with the Y-fitting (7) having the one 16" leg connect to the 2" connector from heater box (1), one 13" Leg connect to the vent (5) on the passenger side dash panel, and one 24" leg connect to the driver's side lower vent (5). As shown.

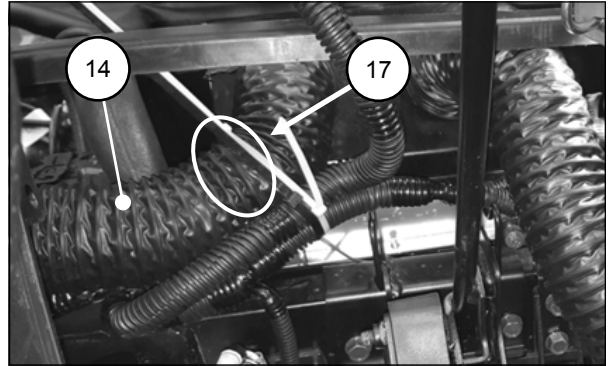


- Route the final 18" section of 2" heater duct (14) for the driver's side from 2" connector on heater box (1) to the driver's side dash panel vent (5). As shown.
- Secure all vents with bands (17).

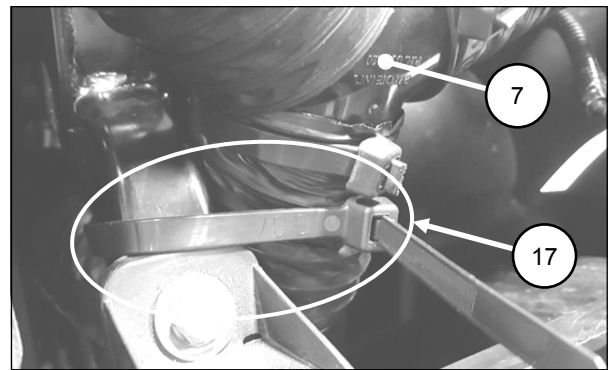


Installation Instructions

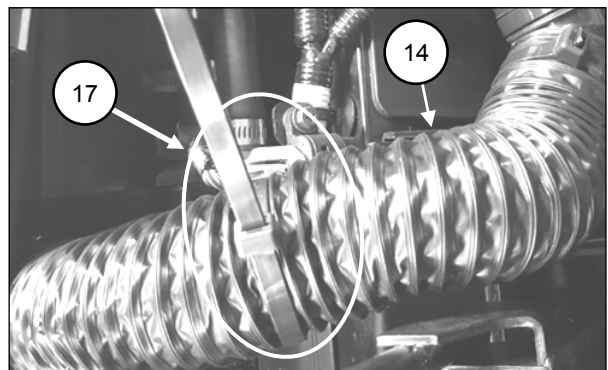
- Secure 18" section of 2" heater duct (14) going from heater box (1) to driver's side vent to frame with bands (17) in same location as wire harness (8) was secured earlier as shown.



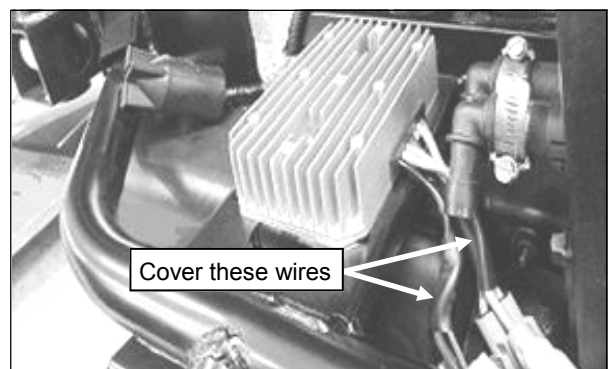
- Secure Y-fitting (7) to chassis with band (17) as shown just beneath the bottom of the Y.



- Secure 2" heater duct (14) from heater box (1) to Y-fitting (7) to vehicle chassis using bands (17) in location shown.
- Check to make sure all heater hose, duct hose, and wire harnesses are away from moving parts and/or hot objects, adjust bands (17) or secure with new bands (17).

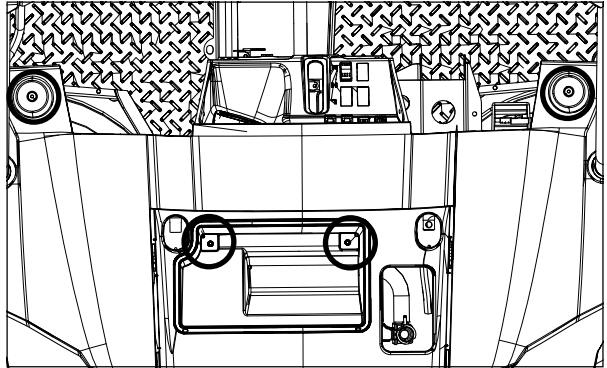


- Take supplied 7/8" Loom (20) and use to cover and protect wires under vehicle hood as shown.

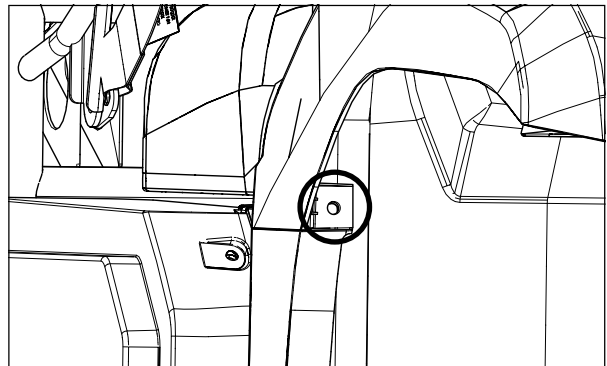
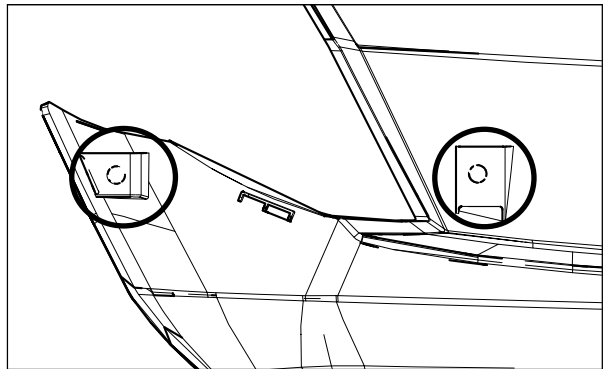


Installation Instructions

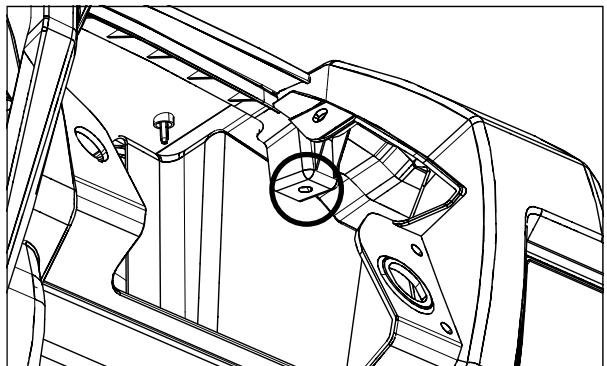
- Remove bungee or rope securing hood and move back into place.
- Reinstall two cup holder bolts (one found in each), and two bolts found at the bottom of the hood compartment.



- Reinstall the four plastic rivets (two found in each wheel well by headlights), the screw found at the rear portion of the vehicle's wheel well retaining the hood (one per side).

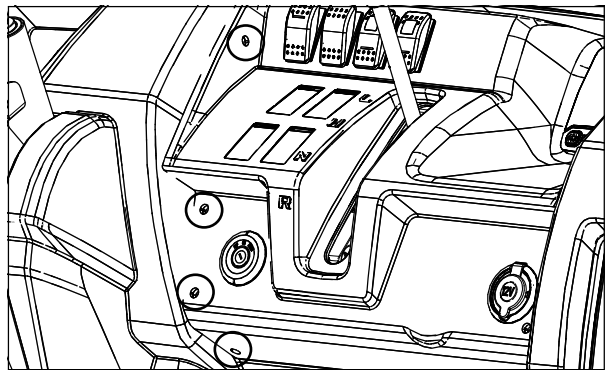
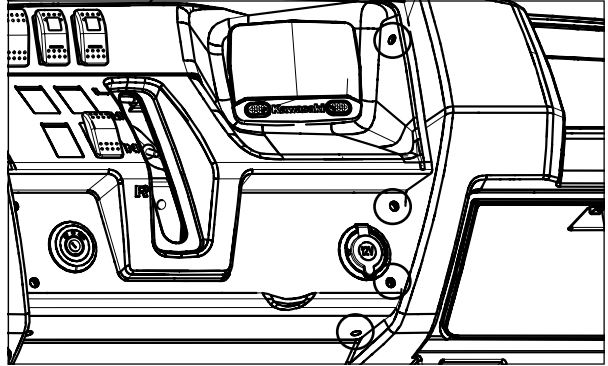


- Reinstall two plastic rivets found under hood.



Installation Instructions

- Reinstall the eight plastic rivets (four per side) that retain the center dash panel as shown.

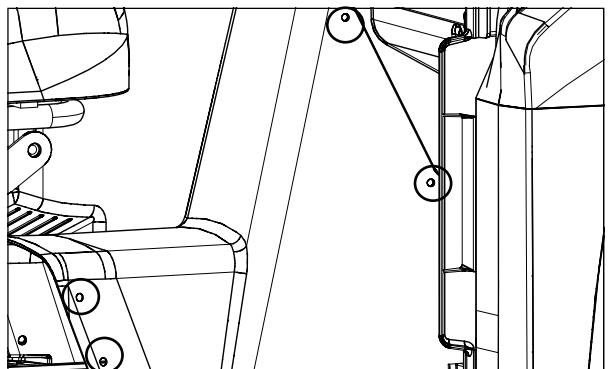
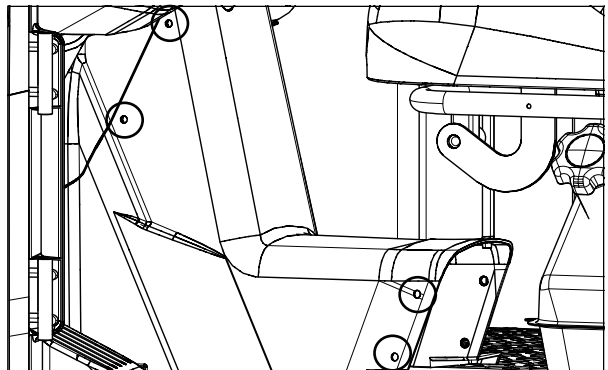


- Reinstall the eight plastic rivets which retain the center tunnel. Four plastic rivets on the driver's side and four on the passenger's side.
- Start vehicle engine and check for any coolant leaks.
- Run engine to operation temperature, turn on heater and check for heater function. Stop engine and allow to cool

⚠ DANGER

**Be sure engine has had sufficient time to cool.
Fluid can be hot and cause burns.**

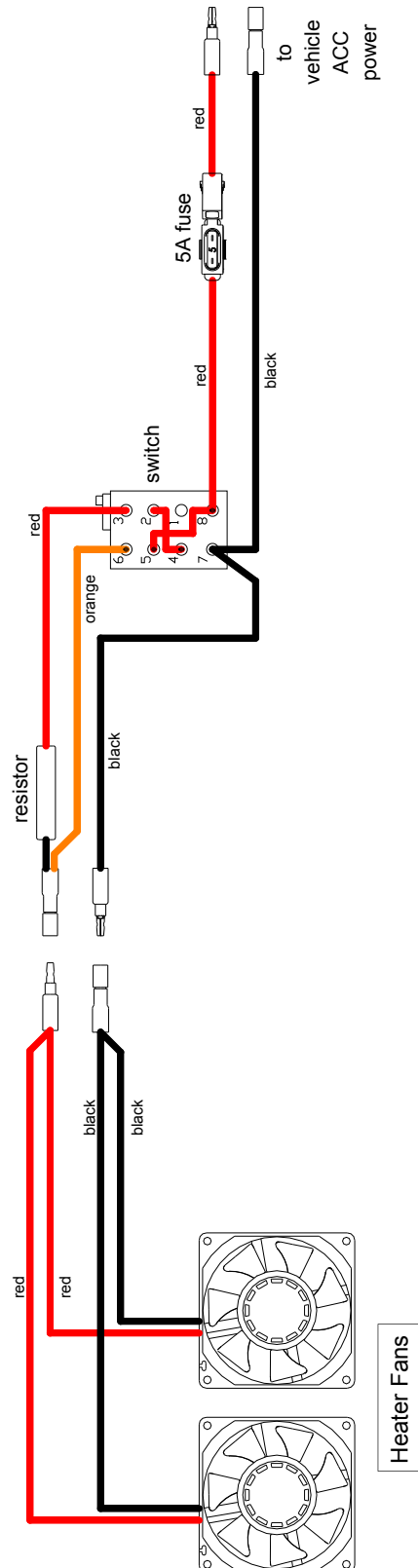
- Check coolant level, and add if necessary.



"Enjoy your Kawasaki Genuine Accessory"

Installation Instructions

WIRING SCHEMATIC



Service Parts

Parts List			
No.	Component Name:	Service Part Number:	Qty
1	Heater Box	8SV-9PH20U8	1
2	Mounting Bracket	8SV-SM-00510	1
3	Heater Hose, 20'	8SV-HRH61-20	20'
4	Wire Harness	9SV-WH-00041	1
5	2" Hose Duct, 5'	9SV-OHC-13-5	5'
6	90° Elbow	9SV-9HR0039	3
7	2.7" Vent	9SV-9HR0074	1
8	Shut-Off Valve	9SV-9HR-00025	1
9	Tee Fitting	9SV-9HR-00005	1
10	3-position switch	9SV-OHC-6	1
11	Y-Fitting	9SV-9HR-00003	1

