

## INSTALLATION INSTRUCTIONS

### VEHICLE APPLICATION

Year: **2015 - 2016**  
Make: **Polaris**  
Model: **RZR 900, 900 EPS, 900 EPS XC EDITION, RZR 4 900 EPS, RZR 900 TRAIL, RZR S 900 EPS, RZR S 1000**  
Engine: **875cc, 999cc (RZR S 1000)**

### TOOLS REQUIRED

- 2.5mm, 4mm, 5mm Hex Key
- 10mm, 13mm Wrench/Socket
- 5/16" Nut Driver
- 1/8", 1/4" Drill Bit
- Phillips Screwdriver
- T40 Torx
- Wire Cutters
- Pilot Hole Punch
- Tape
- Razor Blade
- Hole Saw (Included with Kit)

### BEFORE YOU START

- Please read the entire installation manual before proceeding.
- Ensure all components listed on page 12 are present.
- If you are missing any of the components, call our customer support at (909) 947-0015.
- Do not work on the vehicle while the engine is hot.
- Make sure the engine is turned off, the vehicle is in Park, and the Parking Brake is set.

### THREAD LOCKER USE

We have provided a small tube of thread locker in your kit. Whenever you see the symbol above on a step of the instructions apply 1 small drop of the thread locker to the threads of the screws or bolts. This will keep your hardware from vibrating loose during rough driving. If the hardware ever needs to be removed, do so slowly to avoid having the inserts strip out from the plastic.

### WARNING:

**THIS EQUIPMENT SHOULD BE INSTALLED, ADJUSTED, AND SERVICED BY PERSONNEL FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS TYPE OF EQUIPMENT AND THE HAZARDS INVOLVED. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SEVERE INJURY. READ THIS MANUAL THOROUGHLY AND MAKE SURE YOU UNDERSTAND THE PROCEDURES BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT. THE PURPOSE OF THIS MANUAL IS TO PROVIDE YOU WITH INFORMATION NECESSARY TO SAFELY OPERATE, MAINTAIN, AND TROUBLESHOOT THIS EQUIPMENT. DO NOT USE THIS EQUIPMENT FOR ANY REASON OTHER THAN ITS INTENDED PURPOSE. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL VOID ANY WARRANTY. KEEP THIS MANUAL FOR FUTURE REFERENCE. THE INFORMATION CONTAINED IN THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE.**

Product will intake and expel both air and loose materials with high force and velocity.

- Install product on roll cage, ensure air inlet is not blocked.
- Install product securely to roll cage and avoid placing hair, extremities, clothing, or other loose material in front of air inlet during use.

Moving parts are sharp and could cause personal injury.

- Keep fan safety guard and exhaust cover in place while operating and after service.
- Disconnect product from power source before servicing.

Scavenge Fan is designed for use in conjunction with an UTV's operating manual, and state and federal law.

- Keep your seat belt fastened and wear a helmet while operating the vehicle.

Risk of electric shock!

- Improper installation, maintenance or operation could cause serious injury or property damage.

Cut Hazard!

- Please read through the warning sheet included with the hole saw before starting your project.
- Improper operation of the hole saw safely could cause serious injury or property damage.

**SEE EXPLODED VIEW ON PAGE 13**

## INSTALLATION INSTRUCTIONS (CONTINUED)

1. If you have a 2-seat RZR, remove both seats. If you have a 4-seat RZR, remove both the rear seats.



2. Pull up on the latch and remove the access panel in the cargo bed.



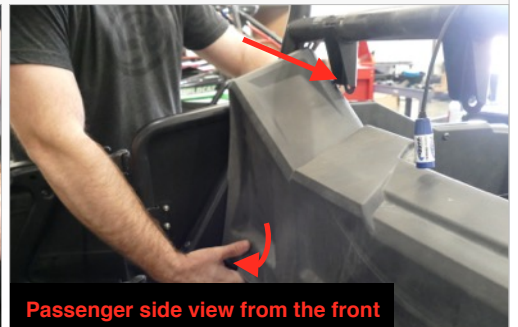
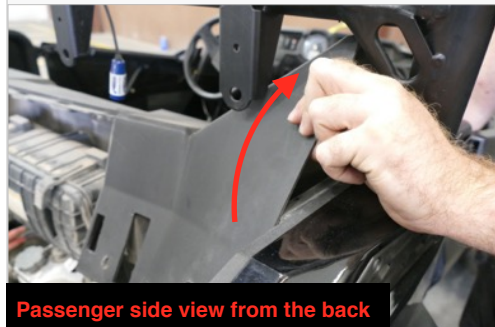
3. Remove the four screws on the air intake cover in the cargo bed side with a T40 Torx.



4. Remove the five screws on the air intake cover from inside the cab using a T40 Torx.



5. Lift up one side of the air intake cover and bend the cover slightly to get it past the seat belt tab. Do this for both sides. This removal will be easier if you have an extra pair of hands to help with the opposite side.



6. Once you clear the seat belt tabs, remove the air intake cover completely.



7. Loosen the hose clamp with a 5/16" nut driver or flat blade screwdriver and remove the stock intake tube.



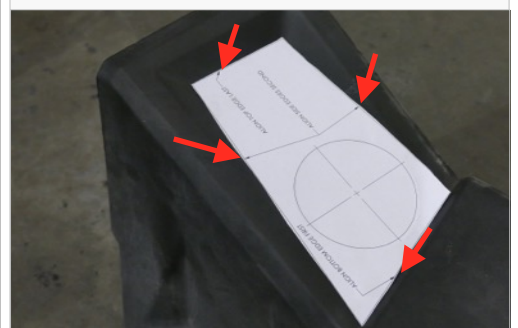
8. Remove the rubber coupler from the stock air box.



9. On Page 11 of this instruction manual you will find a drill template. Cut out this drill template along the straight edges. This will be used to locate the correct drill location.



10. Line up the drill template with the edges on the passenger side of the air intake cover and use tape to secure the template.

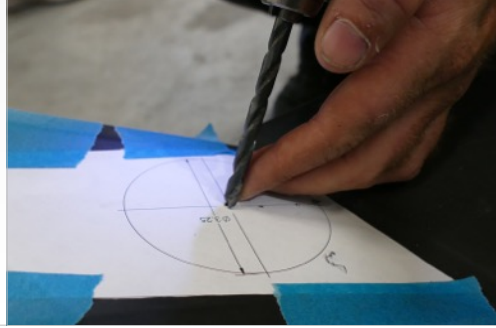


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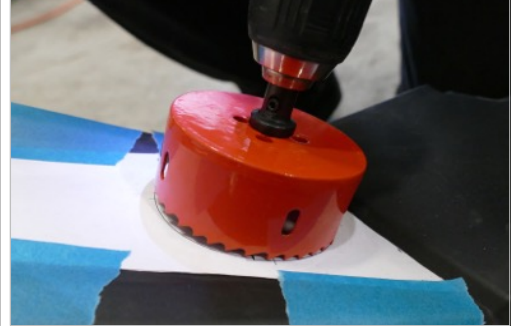


## INSTALLATION INSTRUCTIONS (CONTINUED)

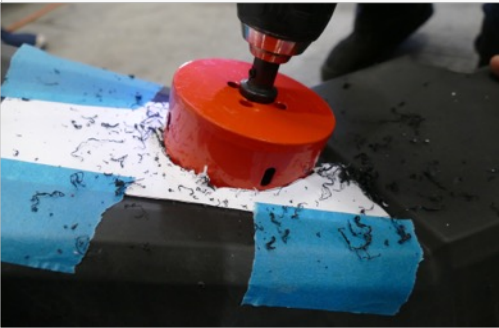
11. Use a 1/8" Drill Bit or Hole Punch to create your pilot hole. After the pilot hole is made, drill through the air intake cover with a 1/4" Drill Bit.



12. Attach the provided Hole Saw (X) and line up the saw with the template. Read the warning sheet before attempting to use the hole saw.



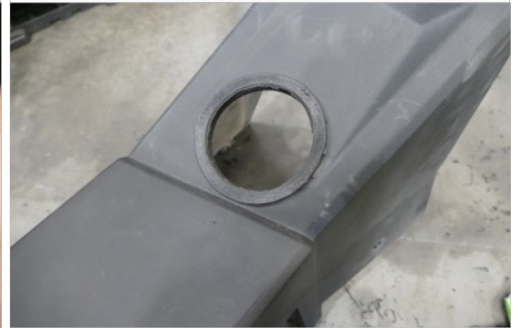
13. Start slowly and then progressively increase the speed. Doing so should give you a better cut. Try to keep the Hole Saw (X) as leveled as possible to the surface.



14. Remove the cutout template and use a knife or deburring tool to clean up the hole as best you can.



15. Insert the Wall Grommet (Q) into the hole.



16. Insert the Intake Air Tube (L) through the Wall Grommet (Q) in the air intake cover. Stop when the tube hits the wall grommet. The tube should be facing the same direction as shown in the pictures below.



17. Insert the Coupler (M) with the #40 and #36 Hose Clamps (O & N) onto the Air Tube (L). Tighten the #40 Hose Clamp and leave the #36 Hose Clamp loose.



18. Reinstall the air intake cover. Install the Coupler (M) onto the stock air box inlet. Tighten the #36 Hose Clamp (N).



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## INSTALLATION INSTRUCTIONS (CONTINUED)

19. Determine where you would like to install the Particle Separator (A) on the roll cage, making sure you have enough room to fit the clamps and Particle Separator on the roll cage without any interference. Planning ahead will save you time during the install. Our clamps are adaptable enough to work around most accessories you may already have installed on the roll cage.



20. Once you have determined where you would like to install the Particle Separator, install the two Straps (D) onto the roll cage. Do not pull the ends of the straps open. Loosely wrap some plastic around the roll cage and push the straps onto the roll cage until they snap into place.



21. Install the Pivot Body (C) onto the Strap (D) with the supplied Screw (I), Locknut (J), and Washers (F) on the roll cage. Do not fully tighten the screws and locknuts. Leave the strap loose. Repeat for both clamps.



22. Determine which side of the vehicle you want the wire connector to be facing. We recommend leaving the wire facing the driver side. This will provide a cleaner look as the battery wire tap power source is on the driver side. If no changes are needed, please proceed to Step 28.



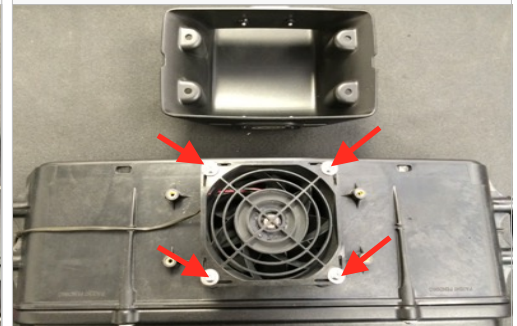
23. Use a 2.5mm hex key, if you need to switch the wire to the other side, first loosen the four screws on the bottom of the fan exhaust. If there was ever a need to replace a damaged fan, the same steps can be applied.



24. Lift up to remove the fan exhaust and set it aside. Remove four screws securing the fan to the housing.



25. Rotate the fan until the connector is in the desired position. Make sure that the fan is blowing in the correct direction. The fan guard should always be facing towards the exhaust.



26. Once you are satisfied with the wire harness position reinstall the fan exhaust and four screws. Do not over tighten the fan screws, or you may damage the fan. Be sure to note the orientation of the exhaust.



27. Press the wire onto the tabs on the side of the Particle Separator (A) to secure the harness.



28. Install the Adapter (E) on the mounting bosses of the Particle Separator (A) with the supplied Screws (H) and Washers (F). Apply Threadlocker (W) to the screw before installing. Tighten these screws. Repeat this for both sides.

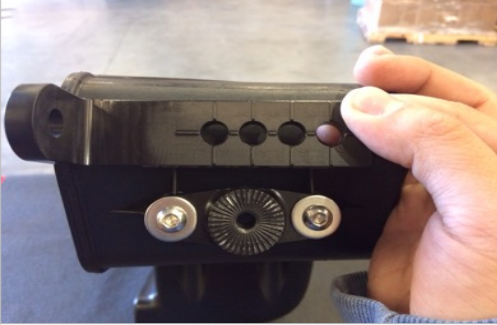


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## INSTALLATION INSTRUCTIONS (CONTINUED)

**29.** Determine the proper angle to mount the L Bracket to the Adapter based on the desired location for the Particle Separator (A). When installing the L Bracket (B), make sure the ribs in the L Bracket are properly seated inside the grooves of the Adapter (E). Do not attempt to rotate these parts once assembled. They are designed to lock into place once seated. Once you're satisfied with these configurations apply Threadlocker (W) to the Screw (K) then tighten with the Washer (G). Repeat for the other side of the Particle Separator and make sure the L Bracket on both sides are pointed in the same direction and are aligned with each other.



**30.** Install the L Bracket (B) onto the Pivot Body (C) using Screw (K) and Washer (G). Apply Threadlocker (W) to the screw before installing. You may have to adjust the position of the Strap (D) and pivot body to get the holes to line up. Do this for both sides. Having an extra pair of hands holding the Particle Separator (A) to help line up the holes will make the install easier.



**31.** Once you are satisfied with the position, tighten the Screw (I), Locknut (J), and Washer (F) to secure the Strap (D) at the roll cage. Do this for both sides.



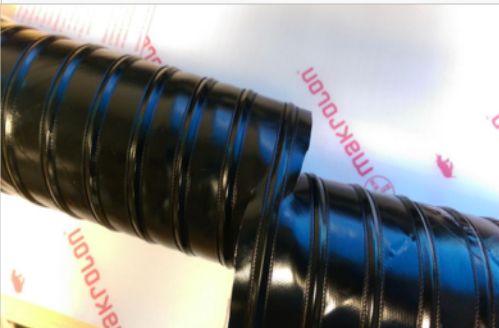
**32.** Double check that all screws and locknuts are tight and that they are securely holding the Particle Separator (A) assembly to the roll cage.



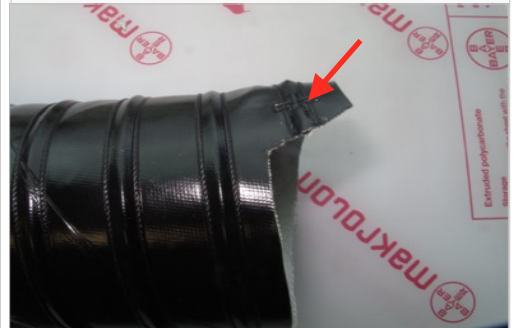
**33.** Insert one end of the Duct (R) onto the Intake Air Tube (L), do not tighten. Bring the other end towards the plenum on the Particle Separator (A). Note the length needed to reach the clean air plenum on the Particle Separator. We recommend adding an extra 3" more to the length of the duct needed.



**34.** Pierce the Duct (R) using a razor, centered between the two wire reinforcements. Cut all the way around, keeping the blade centered between the wire reinforcements the entire length of the cut. Use a mini-bolt or a heavy duty wire cutter to cut through the wire and duct. Use a pair of scissors to cut through any remaining duct not yet cut.



**35.** (Optional) Regular staples can be used to secure the ends of any loose strings hanging from the Duct (R).



**36.** (Optional) For a cleaner appearance, take the end of the wire and tuck it inside the duct. Do this for both ends of the duct if needed.



**37.** Install the Duct (R) onto the Intake Air Tube (L) and tighten Hose Clamp #56 (P).



**38.** Install the end of the Duct (R) onto the plenum on the Particle Separator (A). Tighten Hose Clamp #56 (P).



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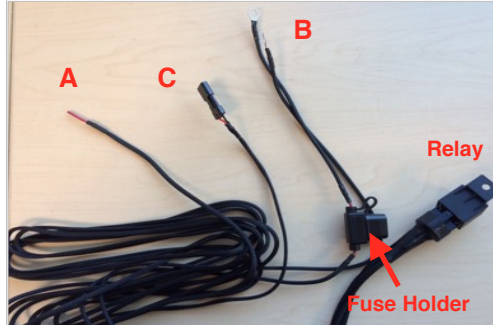


## INSTALLATION INSTRUCTIONS (CONTINUED)

39. Use the provided Velcro Strap (T) or Cable Ties (S) to secure the Duct (R) to the roll cage.



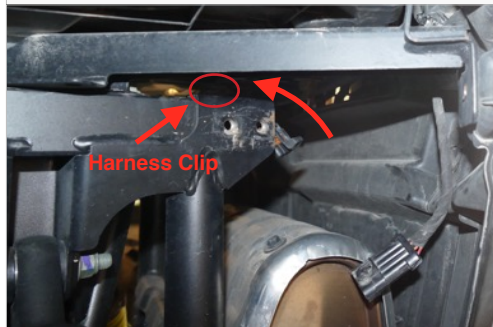
40. Familiarize yourself with the Wire Harness (U) and each of the connectors. Coming from the relay should be three branches. Wire A is used in conjunction with the Posi-Tap (V) to tap into a power source. Connector B has the fuse holder with the red and black ring terminals for the battery. Connector C has the connector to power the Particle Separator (A) exhaust fan.



41. Find and disconnect the taillight connector. Lift up on the tab and pull the connector off.



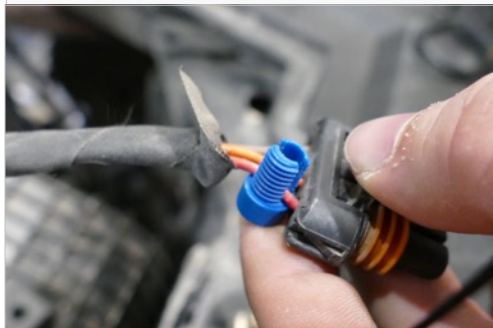
42. Follow the male end of the taillight connector back and find the harness clip connected to the frame. You can remove the harness clip from the top through the access panel on the cargo bed. Use a flat head or panel popper to remove this clip. Be careful not to damage the clip. If damaged, the clip may not be reusable. Removing the clip is not necessary but will help make the install easier.



43. Take a look at the connector. You will be tapping into the red wire.



44. Use the supplied Posi-Tap (V) and unscrew the large top cap. Place the cap in between the red wire on the taillight connector. This will be your power source. Then screw the body around the cap until it is firmly tight.



45. Find Wire A, from the Wire Harness (U), and strip about 3/8" off the end of the wire. This would be the best time to route and tuck the wire in the rear end of the vehicle.



46. Unscrew the bottom cap on the Posi-Tap (V) and insert the Wire A through it. Then insert the wire into the main body of the Posi-Tap, making sure the strands go around the metal core. While holding the wire in place, screw the bottom cap back on until it is firmly tight. Double check both caps to make sure they are tight.



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## INSTALLATION INSTRUCTIONS (CONTINUED)

47. Feed the connector back through the access panel and back down to where it was originally located. Snap the harness clip back onto the frame.



48. Reconnect the taillight connectors. Use the provided Cable Ties (S) to secure the wire to the roll cage. Use cable ties effectively to secure the harness away from any exhaust components or moving parts that could potentially damage the harness.



49. Feed the relay, terminals and fuse holder through the gap behind the rear driver's side fender. This gap goes to the battery compartment.



50. Loosen and remove the nut on the negative battery terminal, then disconnect the terminal from the battery. Repeat for the positive battery terminal. Install the ring terminal clamps, from the Wire Harness (U), onto the battery terminal clamps. Red wire with the fuse holder to (+) and Black wire to (-) and reinstall the nuts. Secure the positive terminal first and then secure the negative terminal.



51. To ensure that you have installed the Wire Harness (U) correctly, connect Connector C to the fan connection point on the Particle Separator (A). Note the color of the wires whenever connecting or disconnecting this connector. Make sure not to cross the connectors. Power (red) to power (red) and ground (black) to ground (black). The connector should snap into each other with very little resistance. Do not try to force the connectors into each other.



52. Turn on the ignition and see if the particle separator turns on. If you hear the Particle Separator fan turning on, you have installed it correctly. Proceed to the next step.



53. From the battery compartment route Connector C up the roll cage. Connect the harness into the fan connector on the Particle Separator (A).



54. Use the Cable Ties (S) or Velcro (T) provided to secure the wire to the roll cage.



55. Group together any excess wires and Cable Tie (S) them together. Use another cable tie and secure the bundle in places away from any exhaust components or moving parts that could potentially damage the harness.



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## INSTALLATION INSTRUCTIONS (CONTINUED)

**56.** Reinstall the five screws into the air intake housing inside the cab. Loosely tighten each screw to make sure you can get the screws in before fully tightening. Reinstall the seats.



**57.** Reinstall the four screws at the cargo bed. Loosely tighten each screw to make sure you can get the screws in before fully tightening. Reinstall the access panel.



**58.** Make sure the connectors are all plugged in and secure. Turn the ignition on and make sure air is blowing out the exhaust. If the exhaust fan does not turn on, double check your electrical connections. When you turn the ignition off, the fan will stay on for several seconds, and is normal. Your installation is now complete.



### SIDE NOTE

S&B recommends that you apply a layer of waterproof grease, such as made by Bel-Ray or Super Lube, on the inside flange of the stock air filter to keep dust from bypassing the seal.

### ONGOING MAINTENANCE

Your Particle Separator requires very little, if any, maintenance depending on where you drive; however, you should check to make sure that none of the openings on the front of the Particle Separators are blocked by mud or other debris each time you exit the UTV. You should also make sure the scavenge fan is operating properly. To do so, simply check to make sure the fan is still blowing out air (for about 15-20 seconds) when you turn off your UTV as this is a normal condition. If the fan is not blowing out air or the airflow seems lower than when you initially installed your system, please contact S&B tech support. To clean your Particle Separator, review the cleaning instructions below.

### RELATED ITEMS FOR YOUR PURCHASE



Stainless Steel Faceplate  
(Brushed)  
SKU# 76-3000



Stainless Steel Faceplate  
(Polished)  
SKU# 76-3001



Stainless Steel Faceplate  
(Havasus Red)  
SKU# 76-3002



Stainless Steel Faceplate  
(Voodoo Blue)  
SKU# 76-3003

Order online today at [www.sbfilters.com](http://www.sbfilters.com) or through your local S&B distributor.

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## HOW TO CLEAN YOUR PARTICLE SEPARATOR

1. For a quick cleaning, blow compressed air through the front with the exhaust fan on. Routine cleaning will prevent any buildup of dirt and debris over time.



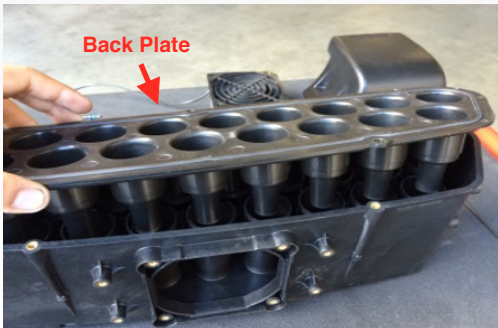
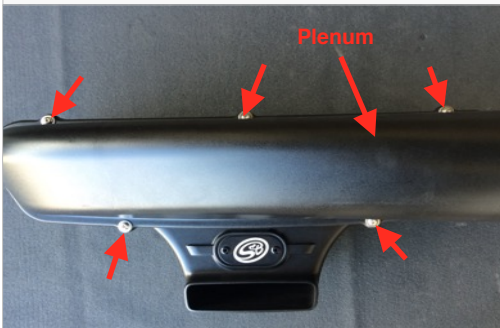
2. If compressed air is not available, water can be used only if the fan is removed from the particle separator. Start by removing the four screws securing the fan exhaust using a 2.5mm hex key.



3. Remove the fan exhaust. Remove the four screws securing the fan to the housing. Note where the fan harness is located and how the fan is sitting on the housing. The fan guard is installed on the exhaust side of the fan. Do not remove the fan guard. Removal of the fan guard will not increase the performance of the particle separator. The fan must be reinstalled the same way it was disassembled.



4. Use a 2.5mm hex key to remove the five screws securing the plenum. Remove the plenum and then the back plate underneath. You may also want to place a shop towel down to protect the face plate from any unnecessary scratches. **WARNING:** Do not power the fan on while the particle separator is partially or completely disassembled. Doing so may cause serious injury.



5. Once the back plate is removed, blow compressed air or Rinse off the particle separator, plenum, and back plate with low pressure water at an angle to remove any debris. Do not spray water directly at the tubes as this may dislodge the tubes from the housing.



6. If the tubes come out just snap them back in place by aligning the tab on the tube with the notch on the particle separator. Push the tube until it snaps into place.



7. After cleaning the particle separator, reinstall the fan into the housing. Make sure that the fan guard is positioned as shown.



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## HOW TO CLEAN YOUR PARTICLE SEPARATOR (CONTINUED)

8. Install the four screws securing the fan to the housing. Do not over tighten or you may damage the fan.



9. Install the fan exhaust. Before you do that make sure that the fan harness exits through the notch on the exhaust so pinching does not occur.



10. Reinstall the four screws for securing the fan exhaust.



11. Reinstall the back plate.



12. If the seal on the back plate was removed, reinstall the seal.



13. Install the plenum and the five screws that were removed. The cleaning is now complete.

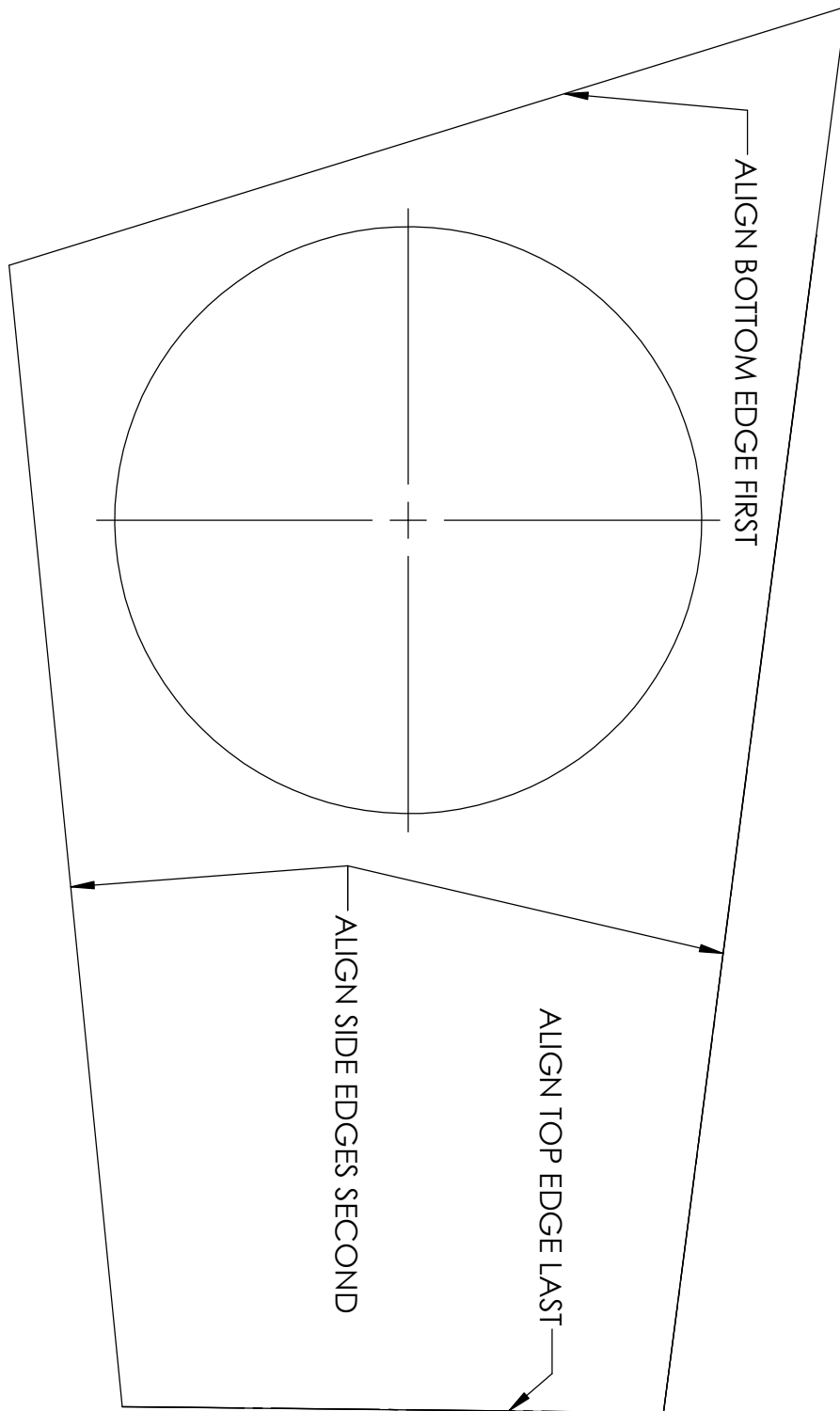


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**DRILL TEMPLATE**



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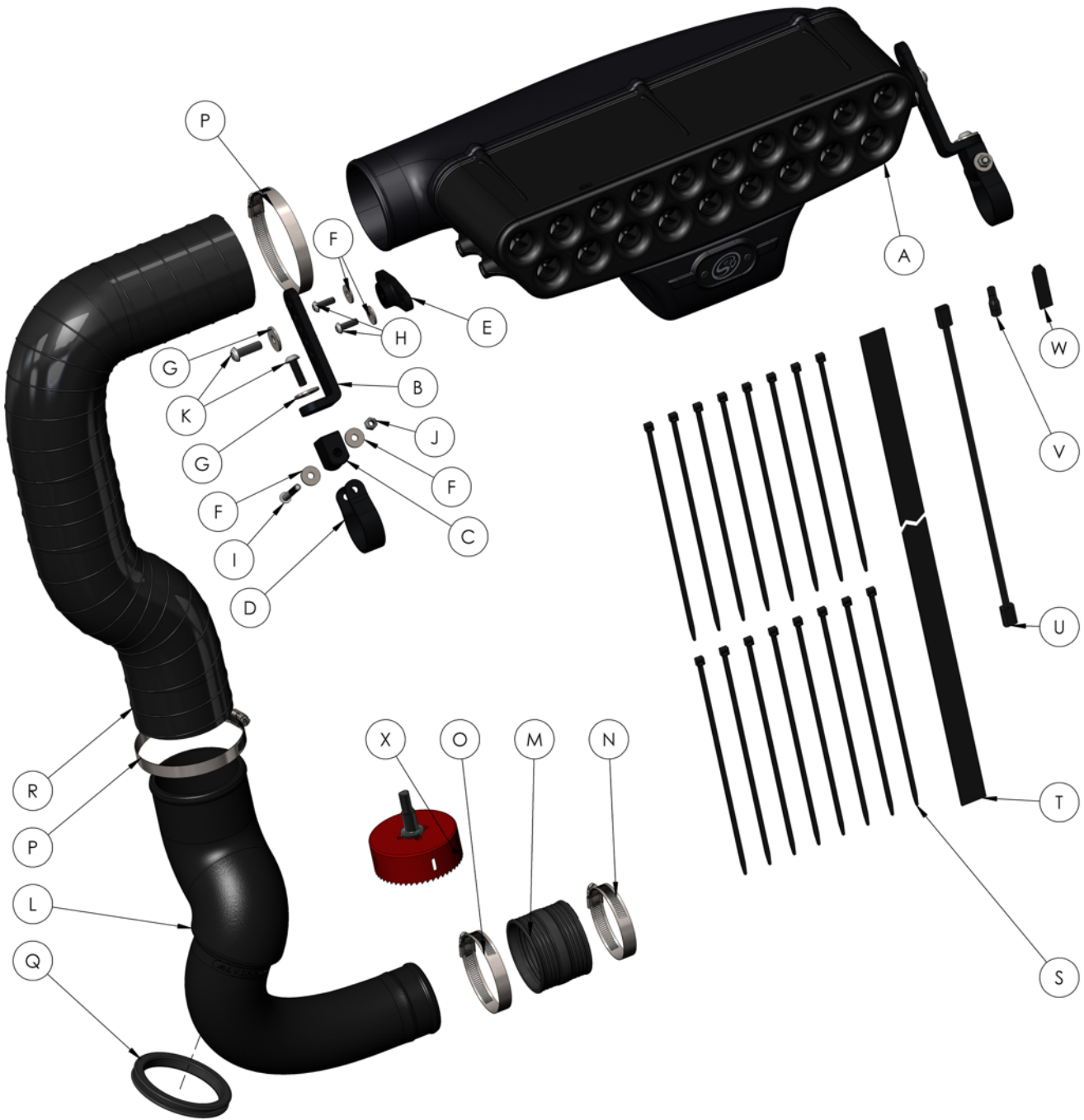


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**EXPLODED VIEW**



ITEM	QTY.	DESCRIPTION	PART NUMBER
A	1	PARTICLE SEPARATOR	AL2003-00
B	2	L-BRACKET, CLAMP	AI1781-00
C	2	PIVOT BODY, CLAMP	AI1782-00
D	2	STRAP, CLAMP	AI1783-00
E	2	ADAPTER, CLAMP	AI1800-00
F	8	WASHER, FENDER, M6	AI1755-00
G	4	WASHER, FENDER, M8	AI1742-00
H	4	SCREW, BHCS, M6X1.0X18	AI1802-00
I	2	SCREW, BHCS, M6X1.0X50	AI1801-00
J	2	LOCKNUT, NYLON INSERT, M6	AI1790-00
K	4	SCREW, BHCS, M8X1.25X25	AI1788-00
L	1	INTAKE AIR TUBE	AL1259-00

ITEM	QTY.	DESCRIPTION	PART NUMBER
M	1	COUPLER, STRAIGHT, 2.5" OD	AI1771C-00
N	1	HOSE CLAMP, #36	AG1004-00
O	1	HOSE CLAMP, #40	AG1005-00
P	2	HOSE CLAMP, #56	AG1019-00
Q	1	WALL GROMMET	AI1805C-00
R	1	FLEXIBLE DUCT, 39"	AI1735-01
S	16	CABLE TIE	AI1750-00
T	1	VELCRO CABLE TIE	AI1779-01
U	1	UNIVERSAL WIRE HARNESS	AI1796-00
V	1	POSI-TAP	AI1799-00
W	1	THREADLOCKER, BLUE	AI1595-00
X	1	HOLE SAW, 84MM	AI1821-00