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JVER \$98 (EXCLUSIONS APPLY)



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# INSTALL INSTRUCTIONS FOR 76-2002

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## BEFORE YOU START

- Please read the entire installation manual before proceeding.
- Ensure all components listed on page 10 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.

## REQUIRED TOOLS

- 2.5mm, 4mm, 5mm Hex Key
- 10mm, 13mm Wrench/Socket
- 5/16" Nut Driver
- 1/4" Drill Bit
- Phillips Screwdriver
- T27 Torx
- Wire Cutters
- Pilot Hole Punch
- Tape
- Razor Blade
- Hole Saw (Included with Kit)
- Power Drill



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	AL2004-00	PARTICLE SEPARATOR ASSEMBLY	1
B	AI1800-01	CLAMP ADAPTER	2
C	AI1781-01	CLAMP L-BRACKET	2
D	AI1782-02	CLAMP PIVOT	2
E	AI1795-01	CLAMP STRAP	2
F	AI1416-00	M6 WASHER	4
G	AI1740-00	M8 WASHER	8
H	AI1802-00	M6 X 1.0 X 18 SS BHCS	4
I	AI2111-00	M8 X 1.25 X 22 SS BHCS	4
J	AI2038-00	M8 X 1.25 X 50 SS BHCS	2
K	AI1736-00	M8 NYLON INSERT LOCKNUT	2
L	AI1805C-00	WALL GROMMET	1
M	AI1257A-00	ADAPTER TUBE	1
N	AI1257-00	INTAKE TUBE	1
O	AI1806C-00	3" STRAIGHT COUPLER	1
P	AG1007-00	HOSE CLAMP #52	2
Q	AI1809-00	BRACKET	1
R	AI1157-00	HOSE BARB	1
S	AI1685-00	M6 LOCK WASHER	2
T	AG1019-00	HOSE CLAMP #56	2
U	AI1735-01	FLEXIBLE DUCT, CUT TO 39"	1
V	AI1813-00	SIDE COVER PLATE	1
W	AI1743-00	M4 X 14 mm, .7 mm Pitch BHCS	4
X	AI1744-00	M4 OVERSIZED WASHER	4
Y	AI1839-00	M4 NYLON INSERT LOCKNUT	4
Z	AI1799-00	POSI-TAP	1
AA	AI1796-00	WIRE HARNESS	1
AB	AI1750-00	CABLE TIE	16
AC	AI1779-01	VELCRO STRAP	1
AD	AI1821-00	HOLE SAW WITH ARBOR	1
AE	AI1079-00	STRAIGHT HOSE BARB	1
AF	AI1039-09	RUBBER HOSE EXTENSION	1

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## 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.



## STEP 1

Remove the plastic air inlet cover and foam insert. Set aside, these parts will be reused later.



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## STEP 2

Remove the driver side rear fender by removing a total of nine (9) screws using a T27 Torx screwdriver. There are five (5) screws along the outer edge of the fender, three (3) near the door, and one (1) at the very bottom of the fender (shown in Step 3).



## STEP 2 (IMAGE 2)

## STEP 3

The last screw can be found on the bottom of the rear fender.

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## STEP 4

Once the screws are removed, lift the fender up and out to remove it from the vehicle. Note the locations of the U-nuts on the fenders as sometimes the U-nuts are dislodged when removing the fender.

## STEP 5

Use a T27 Torx screwdriver to remove the four screws securing the resonator.

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## STEP 6

Remove the crankcase vent hose by reaching behind the resonator and pulling the hose towards the vehicle. The plastic snap bushing can stay in the resonator, it will not be needed.

## STEP 7

Use a flat blade screwdriver to loosen the stock hose clamp. Leave the hose clamp on the stock intake tube; this clamp will be reused later.

Cookie Preferences      hose clamp is loosened, the resonator can be removed by pulling it out of the stock intake tube and away from the vehicle.

## STEP 8

Use a 13mm wrench to remove the two stock screws securing the stock bracket. Set these screws aside, they will be reused in the next step.

## STEP 9

Install Bracket (Q) in the same location where the stock bracket was just removed, reusing the stock screws from Step 8.

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## STEP 10

In 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.

## STEP 11

Align the edges of the drill template with the edges on the driver sidewall of the cargo bed, use tape to secure the template to the wall. Double-check that the hole

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irely on the face of the wall and centered so that it does not extend beyond the edges of the wall.

## STEP 12

Use a hole punch to make a drill point, then drill through the cargo wall with a 1/4" drill bit to create a pilot hole for the hole saw drill bit.

## STEP 13

Attach the provided Hole Saw Drill Bit (AD) to a power drill and line up the drill bit with the template and pilot hole you created in the previous step. Proceed to read both Step 14 and the warning

Cookie Preferences You are attempting to use the hole saw.

## STEP 14

Start cutting slowly and then progressively increase the speed of the drill as you go. Doing so should give you a better cut. Try to keep the Hole Saw Drill Bit (AD) as flat to the wall as possible.

## STEP 15

Once you have completely drilled through the wall, remove the cutout template then use a deburring tool to clean up any burrs that may

Cookie Preferences  on the edge of the cut.

## STEP 16

Insert the Wall Grommet (L) into the hole.

## STEP 17

Insert the Adapter Tube (M) through the Wall Grommet (L) in the cargo bed. Stop when the tube hits the wall grommet. The tube should be facing the same direction as shown in the pictures below.

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## STEP 18

Place two #52 Hose Clamps (P) onto Coupler (O), then slide the coupler onto the end of the Intake Tube (N). Leave both hose clamps loose for now.

## STEP 19

Screw the threaded end of the Hose Barb (R) into the Intake Tube (N). Tighten the hose barb until the end of the hose barb (R) is pointing toward the front of the vehicle. The angle of the Hose Barb (R) may have to adjust for best fitment with the crankcase hose.

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## STEP 20

Connect the Intake Tube (N) to the Adapter Tube (M) by inserting the open end of the Coupler (O) onto the end of Adapter Tube (M) that you installed in Step 17. Once the coupler is in place and the tubes are connected, insert the free end of Intake Tube (N) into the stock intake tube. Do not tighten any hose clamps during this step.

## STEP 21

Use the Screws (H), Lock Washers (S), and Washers (F) to secure the Bracket (Q) to Intake Tube (N).

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## STEP 22

Make sure all tubes (M & N) and Coupler (O) are aligned correctly, then fully tighten the hose clamps on the coupler and stock intake tube.

## STEP 23

### **For the 2011 & 2012 model**

**years** you will need to use the provided Extension Hose (AF) and Straight Hose Barb (AE) to connect the stock crankcase vent hose to the Hose Barb (R) in the Intake Tube (N). We have provided extra length and we recommend cutting the extension Hose (AF) down to 6" for best fitment.

### **For 2013 & 2014 model years,** the use of the extension hose

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## STEP 24 (IMAGE 2)

## STEP 24 (IMAGE 3)

## STEP 25

Once you have determined where you would like to install the Particle Separator, install the two Straps (E) 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.

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## STEP 26

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

## STEP 26 (IMAGE 2)

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## STEP 27

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

## STEP 28

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 (C), make sure the ribs in the L Bracket are properly seated inside the grooves of the Adapter (B). 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 (AG) to the Screw (I) then tighten

Cookie Preferences Vasher (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.

## STEP 28 (IMAGE 2)

## STEP 29

Install the L Bracket (C) onto the Pivot Body (D) using Screw (I) and Washer (G). Apply Threadlocker (AG) to the screw before installing. You may have to adjust the position of the Strap (E) 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

Cookie Preferences   line up the holes  
will make the install easier.

## STEP 30

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

## STEP 31

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

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## STEP 32

Insert one end of the Duct (U) onto the Adapter Tube (M), 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.

## STEP 33

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Duct (U) 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.

## STEP 33 (IMAGE 2)

## STEP 34

(Optional) Regular staples can be used to secure the ends of the strings to the Duct (U).

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## STEP 35

(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.

## STEP 36

Install the Duct (U) onto the Adapter Tube (M) and the plenum on the Particle Separator (A). Tighten both of the #56 Hose Clamps (T).

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## STEP 37

Use the provided Velcro Strap (AC) to secure the Duct (U) to the roll cage.

## STEP 38

Remove the driver's seat by pulling the latch under the seat and lifting up to reveal the battery compartment.

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## STEP 39

Familiarize yourself with the Wire Harness (AA) and each of the connectors. Coming from the relay should be a pigtail, fan connector, and ring terminals. Pig Tail Wire is used in conjunction with the Posi-Tap (Z) to tap into a power source. Ring Terminals has the fuse holder with the red and black ring terminals for the battery. Fan Connector has the connector to power the Particle Separator (A).

## STEP 40

Unhook the battery strap.

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## STEP 41

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 terminals, from the Wire Harness (AA), 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.

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## STEP 41 (IMAGE 2)

## STEP 42

The Wire Harness (AA) should be routed through the vehicle in such a way that the Wire Harness is protected from direct contact with flying dirt/rocks and other moving parts on the vehicle.

The layout shown in this instruction manual serves as a guide for an acceptable location to route the wire harness for a 4-seat RZR. A 2-seat RZR can use a similar method of going through the lower side panel. The extra length added to the wire harness will allow it to be routed in various configurations depending on your vehicle setup. For this install, remove all of the push pins and screws on the lower driver side panel so that the wire harness can be tucked

Cookie Preferences  s panel and routed to the back of the vehicle.

## STEP 42 (IMAGE 2)

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## STEP 43

Pull the Wire Harness (ZZ) through the lower driver side panel toward the rear driver side wheel well. Route the Fan Connector along the backside of the wall behind the seats, upward toward the cargo area. The pigtail will follow the metal frame of the vehicle toward the taillight.

## STEP 44

Remove the taillight connector by pushing in the tab on the bottom side of the connector, then pull the connector out. The Red/Yellow wire is the power source and where we will tap into.

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## STEP 44 (IMAGE 2)

## STEP 45

Locate the supplied Posi-Tap (Z) and unscrew the large top cap. Place the cap around the Red/ Yellow wire on the taillight connector, then screw the body onto the cap until it is firmly tight and pierces the wire.

## STEP 46

Strip about 3/8" of insulation off of the end of the pigtail. Unscrew the bottom cap on the Posi-Tap (Z) and insert

Cookie Preferences through it. Then insert the wire into the main body of the Posi-Tap, making sure the strands go around the metalcore. 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.

## STEP 46 (IMAGE 2)

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## STEP 47

Reconnect the taillight connector.

## STEP 48

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

## STEP 49

Cookie Preferences that you have installed the Wire Harness (AA) correctly, connect the Fan Connector to 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. 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.

## STEP 49 (IMAGE 2)

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## STEP 50

If you haven't done so already disconnect the Fan Connector and route up the wire through the cargo bed and along the Duct (U) to the Particle Separator (A). Reconnect the Fan Connector to the Particle Separator.

## STEP 51

Use Cable Ties (AB) or Velcro Strap (AC) to secure the Wire Harness (AA).

## STEP 52

Cookie Preferences  battery back down into its compartment and strap down the battery.

## STEP 53

Group together any excess wires and tie them together with the provided Cable Ties (AB). Use another cable tie and secure the bundle in a place away from any exhaust components or moving parts that could potentially damage the harness. In this install, we placed the extra length behind the wall shown below, inside of the lower driver side panel.

## STEP 54

[Cookie Preferences](#)  he screws to any panels removed.

## STEP 55

Reinstall the seats.

## STEP 56

Reinstall the rear driver side fender removed.

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## STEP 57

Locate the side cover that you set aside from Step 1. Install the Side Cover Plate (V) with the Screws (W), Washers (X), and Lock Nuts (Y).

## STEP 58

Install the foam insert and side cover back into the rear driver side fender.

## STEP 59

Make sure the connectors are all plugged in and secure. Turn the ignition on and make

Cookie Preferences 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

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ice depending on where you drive; however, you should check to make sure that none of the openings in 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.

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## DRILL TEMPLATE

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