



# INSTALL INSTRUCTIONS FOR 76-2022

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## BEFORE YOU START

- Please read the entire installation manual before proceeding.
- Ensure all components listed on the following section 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

- T40 Torx
- Panel Popper
- 4 mm hex key
- 5 mm hex key
- Phillips Screwdriver
- 5/16 Nut Driver
- 10 mm socket
- 13 mm socket



Hi. Need any help?



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AL2022-00	MAVERICK R PS UNIT	1
2	AI315-01	FOAM STRIP, ADHESIVE BACKING, 1" WIDE, 1/16" THICK, CUT TO 2 FEET	1
3	J10127-00	NO-SLIP CLIP-ON BARREL NUT	1
4	AI3123-00	REPLACEMENT BAFFLE WALL, 76-2022	1
5	AI3124-00	FRONT BRACKET	1
6	AI3125-00	REAR BRACKET	1
7	AI316-01	FOAM STRIP, ADHESIVE BACKING, 1" WIDE, 1/8" THICK, CUT TO 15 INCHES	1
8	AI1535-00	WASHER, FLAT, M6, 18 mm OD, DIN 9021, 2N PLTD	4
9	AI1802-00	BHSC, M6 X 1 X 18mm LONG, 18-8 SS	4
10	AG1018-00	HOSE CLAMP, #64	3
11	AI1714C-00	STRAIGHT COUPLER, 3.875" ID X 2.5" LONG	1
12	AL1463-00	TUBE, 76-2022	1
13	AI1581C-00	SILICONE STEP COUPLER, 3.75 X 3.375 X 2.00 LONG	1
14	AG1019-00	HOSE CLAMP, #56	1
15	AI1763-00	PLASTIC RIVET, 11/16 DIA HEAD, 1/4 DIA X 7/8 LONG STEM	1
16	AI2121-00	WIRING HARNESS, CAN-AM MAVERICK	1
17	AI2497-00	IGNITION SENSOR ASSEMBLY, 45" PIGTAIL	1
18	AI2367-02	CONTROL BOARD HARNESS	1
19	AI1750-00	CABLE TIE, 9" LONG	12

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: MACH ±.015" ANGULAR: MACH ±.5° HOLE DIA: DECIMAL ±.005" THREE PLACE DECIMAL ±.005" INTERFERING GEOMETRIC TOLERANCES PER: ASME Y14.5-1994	NAME RJT	DATE 2024.07.15	TITLE: <h1>Maverick R PS Exploded View</h1>
	DRAWN CHECKED		
	MATERIAL:		
	FINISH		
SIZE <h1>B</h1>	DWG. NO. <h1>76-2022</h1>	REV	

NEED ANGLE PLATE FOR DIA.



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SCALE: 1:4 DO NOT SCALE DRAWING SHEET 1 OF 1

Remove any storage boxes from the cargo. If you have a tire rack, release and lift it to the open position. Any other accessories in the cargo area preventing removal of the rear scoop will need to be removed as well



## STEP 2

Prepare to remove the rear scoop from the vehicle by unfastening the two T27 screws and the rivets on each the passenger and driver side.



## STEP 3

Remove the rivet accessed from inside the vehicle that fastens the air inlet grille to the scoop. If you don't have the cold air roof scoop that connects to the rear scoop, you can skip to step 7.

## STEP 4

If you have a tire rack, also remove all of the rivets at the base of the roof scoop that fasten to the rear scoop.

## STEP 5

Remove all of the screws that fasten to the rear cover panel of the roof scoop at the top and pull off the panel.

## STEP 6

Once the rear roof scoop cover panel is removed, unfasten the now accessible

Cookie Preferences at secure the roof scoop to the vehicle.

## STEP 7

Pull the scoop assembly off the vehicle. If you have a tire rack, you will drop down the roof scoop into the rear scoop and wiggle it out.

## STEP 8

Unfasten the 4 bolts securing the OE baffle wall to the vehicle accessed from the

Cookie Preferences → vehicle using an  
M10 socket.

## STEP 9

Remove the T27 screw  
accessed from the interior of  
the vehicle next to the air  
grille above the seat that  
fastens to the baffle wall.

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## STEP 10

Push the rubber air intake tube out of the baffle wall and remove the baffle wall.

## STEP 11

Unfasten the hose clamp securing the rubber intake tube to the OE airbox and remove the tube.

## STEP 12

Clean the surface of the intercooler support and then stick the 1/8" thick foam

Cookie Preferences on the surface as pictured.

## STEP 13

Cut this circular rib on the underside of the cold air cover as pictured using a flush cutter. This will give more room for the separator.

## STEP 14

Use the provided replacement baffle wall to line up on the underside of



Cookie Preferences of assembly to see where to apply the 1" thick foam. Clean this surface and apply the 1" thick foam as pictured, cutting any excess.

## STEP 15

Put the supplied clip nut onto the replacement baffle wall into the position shown.

## STEP 16

Install the separator into position by first angling the tube outlet down near the

Cookie Preferences n, then swinging the rear end of the separator to fit the fan exhaust portion around the intercooler support. Carefully twist the replacement baffle wall around the separator while installing the separator into position.

The separator vortex tubes will be horizontal and the inlet front face of the separator will be angled relative to the vertical wall of the intercooler support when in position as pictured.

## STEP 17

Install the front bracket reusing the M10 OE baffle wall screws and washers to fasten to the vehicle and the supplied screws and washers to fasten to the separator using an M4 allen key. Do not fully tighten until the rear bracket is installed.

## STEP 18

Install the rear bracket by removing the M10 screw fastened to the tank baffle wall, then reinstalling it to the bracket and fastening the supplied screws and washers to the separator using an M4 allen key. Use the supplied rivet to secure the baffle wall to the bracket.

## STEP 19

Install the previous removed T27 screw from the inside of the vehicle to fasten to the clip nut on the replacement baffle wall.

## STEP 20

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supplied tube between the airbox and the separator. It is recommended to put the step coupler pushed as far as possible onto the OE airbox with its respective hose clamps, and the other coupler all the way onto the tube with its clamps. Then once the tube is in position, slide the couplers so that they line up with the indicators on each component (the tube has beads on each side for the couplers, and the separator and airbox each have indicating bumps).

## STEP 21

To start wiring and gain access to the busbar, start removing the passenger seat from the vehicle by removing the front two anchor bolts.

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## STEP 22

Next, flip the seat seat cushion by pulling up on the rear of the cushion. Remove the now accessible rear anchor bolts of the seat.

## STEP 23

Pull the back of the seat forward to remove the seat belt anchor bolts.

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## STEP 24

Remove the seat from the vehicle, and then unfasten the T27 torx screw pictured.

## STEP 25

Swing the center console panel up to gain access to the wiring.

## STEP 26

Identify the supplied main wiring harness, remove the three nuts from the busbar to

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ect them: Orange wire labeled “ACC” at the top post, the black wire labeled “GND” on the bottom post, and lastly the red wire labeled “BATT” in the middle post. Retighten the nuts.

## STEP 27

Route the end of this main wire harness through the center console through the hole that is open to the rear of the vehicle. Shining a light through can help identify the opening.

## STEP 28

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path of an OE harness going to the driver side of the vehicle along the firewall. For now leave the harness near the airbox un-zip tied.

## STEP 29

Disconnect the rearmost ignition coil harness from the passenger side.



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## STEP 30

Locate the ignition sensor harness and remove the gold screw to prepare to install it on the vehicle.

## STEP 31

Install the ignition sensor onto the positive ignition coil wire (brown) placing it about 1" away from the connector. Make sure that the top clip piece touches the bottom clip piece on the inside. Use zip ties on each side of the connector to ensure it does not slide up or down the wire during use. Route the ignitor sensor towards the OE air box but do not zip tie.

## STEP 31B

This is what the sensor will look like with the zip ties around the wire.

Ignore the color of the wire in this photo

## STEP 32

Locate the Y splitter harness and familiarize yourself with it using the picture for this step. One side will have a single connector that connects to the scavenge fan from the PS. The other end has two connectors: one square 4 pin connector that connects to the ignition sensor, and one flat 3 pin connector that connects to the main power harness.

## STEP 33

Connect the main power harness to the remaining connector on the y splitter harness. The main harness is the one that was routed from the busbar through the center console.

## STEP 34

Connect the single 3 pin connector on the single connector end of the Y harness into the connector from the scavenge fan coming from the main Particle Separator unit. The scavenge fan connector comes from the rear side of the separator (on the bottom right of the side with the white S&B logo).

## STEP 35

Plug the square 4 pin connector on the Y harness into the connector on the ignition sensor that you put on the ignition coil harness earlier.

## STEP 36

To ensure that everything is installed correctly and there are no problems with any part of the electrical system, we need to run a test to verify the function of the whisper quiet fan technology system. If your particle behaves as these tests describe, the electrical system is functioning correctly. If the separator does not act as described, please watch our electrical system troubleshooting video to

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the cause of the misbehavior before moving on. Make sure all of the harnesses are not near any moving parts on the vehicle prior to testing

1. Turn the ignition to the key on position. The fans on the particle separator should be at 20% speed and should barely be audible.

2. Turn the ignition on. The fans should be at 50% speed and barely be audible over the engine idle noise.

3. Rev the engine to a constant 3000 rpm for 5 seconds and then take your foot off of the gas. The fans should build to and stay at max speed during the 5 seconds, and decelerate back to 50% speed 2 seconds after you let your foot off of the gas.

## STEP 37

After confirming everything is functioning correctly, it is time for cable management

Cookie Preferences erent harnesses.

Starting at the separator and working backwards from there, we decided to zip tie the y harness in on the firewall near the airbox.

## STEP 38

We then zip tied the ignition sensor to this coolant hose, jumped to the firewall, and met with the y harness bundle.

## STEP 39

Then we began zip tying the main harness along the pictured OE harness, pulling

Cookie Preferences s back into the center console bundle and zip tie.

## STEP 40

At this point, verify the wires are all secure and in good position, then refasten the removed screw after swinging the center console panel back down.

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## STEP 41

Put the seat into the vehicle and fasten the seat belt anchor bolts to 64.5 +/- 6.5 Nm (48 +/- 5 lbf-ft).

## STEP 42

Fasten the rear anchor point of the seat to 64.5 +/- 6.5 Nm (48 +/- 5 lbf-ft).



## STEP 43

Fasten the front anchor point to 24.5 +/- 3.5 Nm (18 +/- 3 lbf-ft).

## STEP 44

Put the rear scoop assembly back on to the vehicle. If you have a tire rack and roof scoop, use a similar method to the one that you used to remove it (drop the roof part of the scoop into the rear scoop and wiggle it around the tire rack as necessary).

Fasten the rivet and screw on each side of the scoop assembly.

If you have a roof scoop, refasten it to the roof, its base to the rear scoop, and top roof scoop panel.

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## STEP 45

Push in the front air grille rivet to secure it to the rear scoop.

## 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 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.

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