

JK Ultimate Aluminum Fuel Cell Install Instructions

Thank you for purchasing the RPM Steering Fuel Cell kit. Please take your time during the installation and be sure to do it correctly. Please read the directions before starting your installation so you know what to expect. Remember, your safety and the safety of others depend on it. Feel free to call us with any questions you may have, 480-476-2073.

Kit Includes:

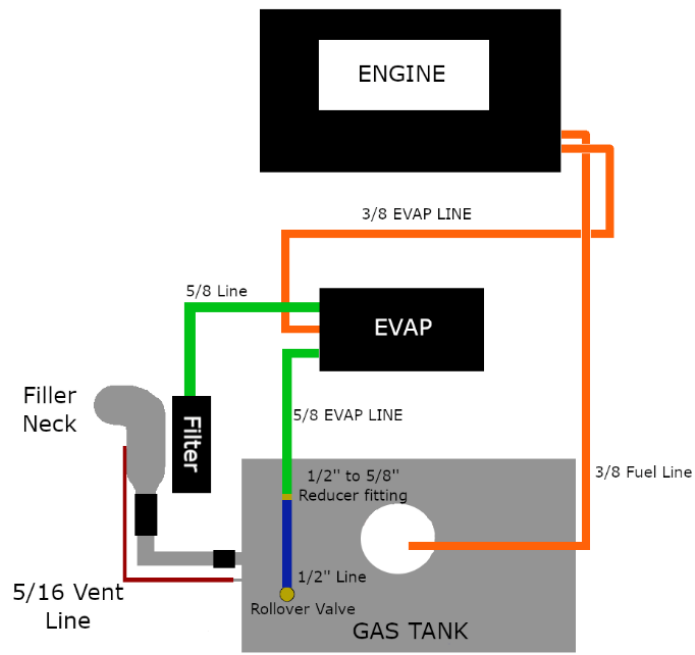
- (1) Aluminum Full Cell
- (1) Steel Skid Cover
- (2) Steel Tank Straps
- (1) Install Kit (Hoses, Filler Tube, Hose Clamps, Wiring, Connectors, Etc.)

Warranty:

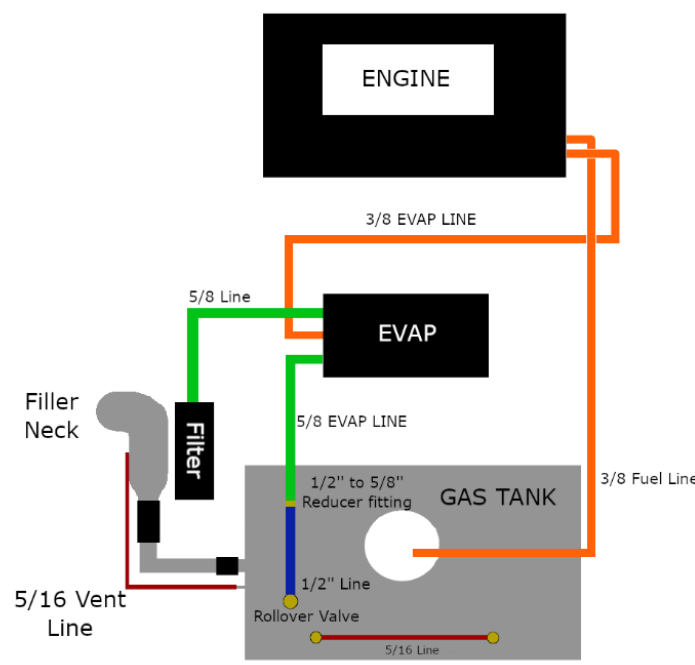
Disclaimer:

Customer assumes full responsibility for use, installation and routine maintenance. RPM Steering is not responsible for damage resulting from improper installation, use or maintenance.

JK 2 DOOR FUEL CELL



JK 4 DOOR FUEL CELL



SOME IMAGES USED MAY NOT MATCH YOUR MODEL SPECIFICALLY. THEY ARE FOR ILLUSTRATION PURPOSE BUT THE METHODS USED TO INSTALL THEM ARE ALL THE SAME.

- 1) Remove factory gas tank, lines, filler neck, Rear Sway bar, and any exhaust routed in the path of the new tank. Label each hose as some parts are reused.
- 2) Prep the fuel cell skid using the roll of 4" wide rubber to lay down two strips at the base of the skid
- 3) Prep the tank straps with the 1" wide adhesive backed rubber.
- 4) Set the Fuel cell in place in the tank skid
- 5) Install the Tank straps using the provided 3/8-16 x 1.25" Bolts, washers, lock nuts
- 6) Remove the factory storage bin and heat shield (use the floor cover to mark the rivnut locations and outline of the cover to ensure you only cut away the storage bin area and not past the floor cover)
- 7) Remove any exhaust hangers on the inside of each frame section towards the rear crossmember
- 8) Hold up the tank in place using the sway bar bolts at the front tabs then mark and Install the 2 provided 1/2-13 Rivnuts at the two rear most tabs. Use the pre existing hole on the driver side and drill a hole on the passenger side. (If you opted for the Shock Cutout Version of the fuel tank the mounting tabs move to the crossmember and you will have 2 nut plates that will slide into the crossmember for bolting up the tank. You will not have tabs that use the sway bar bolts like the full fuel cell. See the last page for images.)
- 9) Use the image below to trim the pickup tube on the fuel pump, add a zip tie to resecure it to the wire. Ensure the wire helps the tube angle towards the bottom of the fuel tank and then Install the factory fuel pump into the tank, use the factory O ring and factory lock ring. Position the pump so the float does not contact the inside wall of the tank. Ideally point the electrical connector as much forward to the front of the vehicle as possible.
- 10) Install the fuel cell/ Skid system on the vehicle. Use the 4 factory sway bar mount bolts in the front mounting flanges and the 2 provided 1/2-13 x 2 bolts into the rivnuts previously installed onto the rear frame.
- 11) Referencing the first image begin to route the hoses. Starting at the front of the vehicle run the 3/8" ID fuel hose. Take the factory fuel hose and slice the hard line where it connects to the male barb and 90 degree quick connect end. Pull the barb off and insert it into one side of the 3/8" rubber fuel line. Use the provided 3/8" ID fuel line specific hose clamp. Run the line up the passenger side frame all the way to the top of the gas tank. You may use heavy duty zip ties for temporary install but we suggest later using addell clamps and self tapping screws to secure the rubber hoses down the frame. Once at the fuel pump you may need to cut the hose to get rid of excess line. Install the quick connect fitting taken off the factory fuel line. Install the rubber hose end onto the quick lock with the provided 3/8" ID fuel line Hose clamp. Connect the quick connect end to the fuel barb on the fuel pump just behind the electrical connector end. The Fuel line is finished.
- 12) Next run the 3/8" ID rubber hose from the front EVAP Line next to the fuel line back to EVAP Canister. Take the factory line and slice off the hard line and use the female quick connect ends inserting them into the rubber line and using the hose clamps. Cut the 3/8" line to fit.
- 13) Next starting from the top of the tank install the 1/2" ID rubber line onto the large rollover valve using a 1/2" hose clamp to secure to the rollover valve barb. After 1-2 ft of the 1/2" ID Rubber hose install the 5/8-1/2 reducer barb using the 1/2 hose clamp on the line.
- 14) Using the 5/8" ID Rubber line connect to the reducer barb and use another 5/8" hose clamp. Run the line back up and connect the 5/8" ID line to the EVAP Canister and use a hose clamp to secure.
- 15) Using a section of 5/8" ID Rubber Hose, 2 hose clamps, Connect the Can Filter back to the EVAP Canister.

16) Using the factory Filler neck disconnect the 5/16 line at the sensor. Install the 5/16" Rubber line onto the sensor and use a hose clamp to secure. Once the filler neck assembly is ready you will connect the 5/16 line to the barb on the tank next to the filler neck barb. (its easier to prep the entire filler neck assembly first.)

17) Using the factory filler neck tube and the provided extra 1" ID tube and clamps install up to the filler inlet at the tank. Cutting each part to fit. See image for cuts.

18) Next find the fuel pump wiring harness. Cut back the electrical tape several inches. Cut all 4 wires leaving as much room to add connectors on both side as possible. Using the provided wire and solder connectors pick a color per wire and extend the wire. Once all 4 wires are connected under the vehicle wrap the wire in loom or electrical tape and route on the passenger side frame up and over the tank following the fuel line. From the top cut back excess wire length to desired slack. Use wire connectors to reconnect the factory plug/pigtail that was cut off at the start of this step. Again cover with electrical tap and loom as needed. Plug into the top of the fuel pump

19) Find the 5/16 filler neck vent plug and follow the same steps to patch in longer wires to the new position.

20) Take a final look at all connections and make sure all lines are secure. With all the lines run at this stage its ideal to now install any addell clamps you see fit to better secure the lines to the frame. Depending on your custom exhaust for your suspension also check if heat sheild needs to be run in any areas where the exhaust may be close to the lines.

21) Lay the tank cover in the bed to mark the hole pattern. Drill holes and install the rivnuts. Bolt down tank cover in bed.



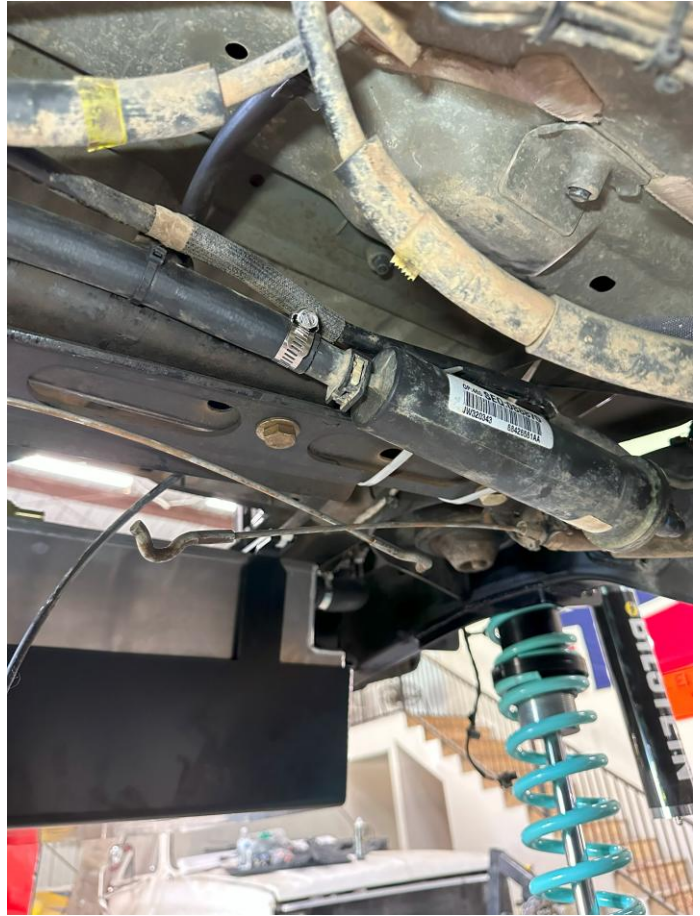








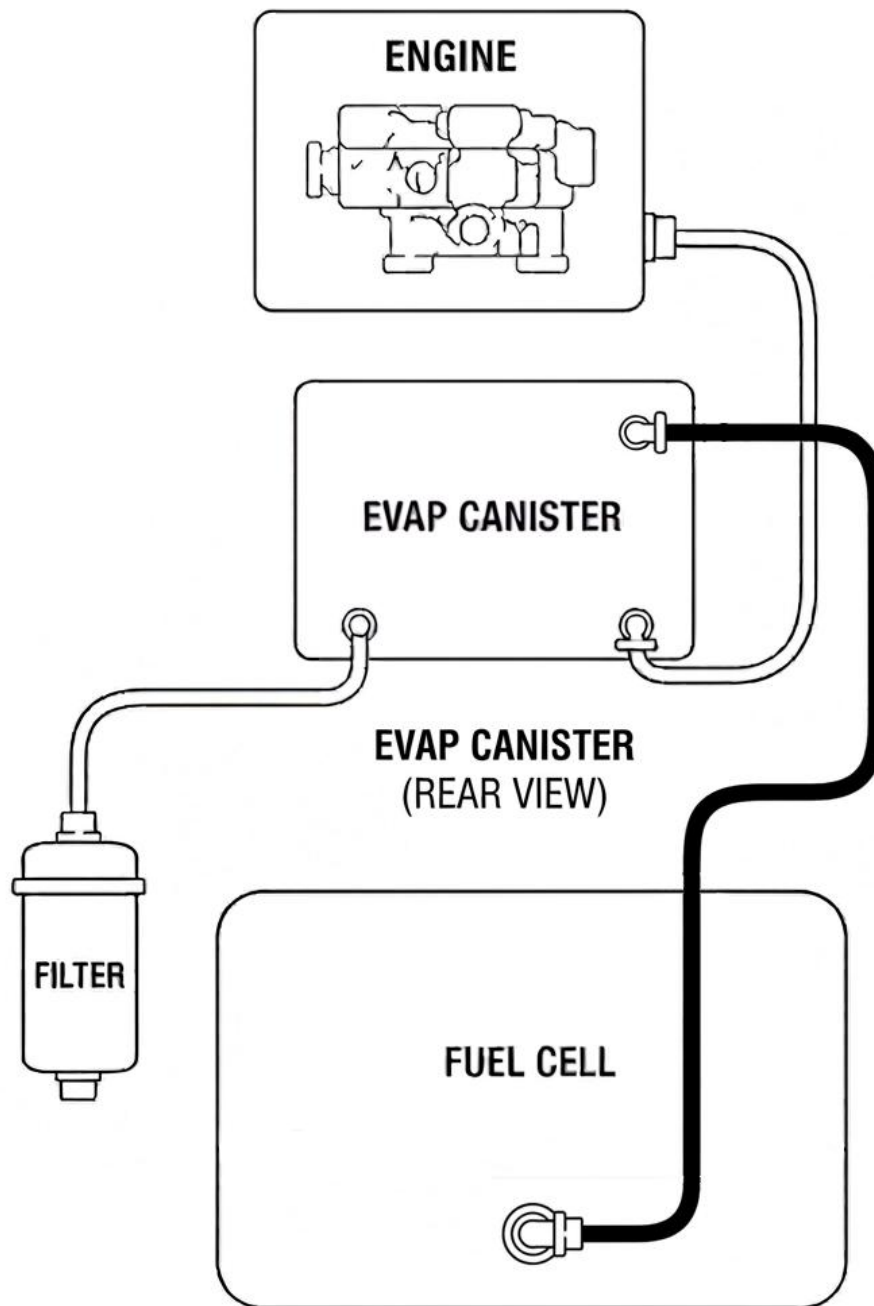












JKU 4 Door Fuel Tank With Shock Cutouts ONLY

