

# KILBY ENTERPRISES

## PLEASE NOTE!

You MUST have a 1" body lift (minimum) to accomplish this install! The '03-Up Wranglers do not use the same gas tank as previous models! If you have any questions about the install, please call the shop and we'll go over them with you. It's really not that hard, just a little more time consuming.

## BE CAREFUL AND DON'T BREAK ANYTHING!

1. Before disconnecting the batteries, remove the gas cap and pull the fuel pump relay of the PDC. Start the engine and run until it stalls. Replace the relay and disconnect the battery. This will relieve the fuel pressure in the fuel line and should allow you to disconnect the high pressure fuel line without gas spitting all over you. But be cautious anyhow when disconnecting that fuel line! (step 3)
2. You need to disconnect the 3 connectors that sit at the left front of the gas tank. These connectors have a round side and a flat side. You need to push in on the ROUND side to open the clip. You can do this with one hand. Push the clip and gently pull the hose off. [See pic 1]
3. Disco the electrical connector by sliding the red clip outward until it clicks, then pull the connector apart.
4. Go to the RR corner of the Jeep and pull the rear portion of the wheel well liner down. You do this by removing one clip with needle nose pliers or whatever tool you have that works. Actually, do the same for the drivers side too while you're at it. After you pull the liner down, you'll see a round white valve sitting up in there. Again, push the clip on the round side and gently pull the valve down. Also, see the hose in the middle going to the upper right? This one has two clips you need to pinch together and pull the hose to disconnect. [See pic 2]
5. Go to the drivers side and remove the fuel cap bezel (round black piece on the outside). Remove the four screws holding the steel filler neck. Reach inside and cut the zip tie holding the axle vent tubes to the gas filler hoses.
6. Put a floor jack under the skid and remove the 7 bolts holding it in place. GENTLY lower the skid a little at a time! Help feed the hoses on the drivers side and the plastic valve and hoses on the passenger side, between the body and frame. Be careful you don't break anything! Keep lowering and feeding until the skid is out.
7. Once you have the tank out, you'll see the hose "harness" on top of the tank. If you look hard enough, you'll see 5 mounts. Four at the rear and one on the left side by the rollover valve. Lift up the back of the "mount" and slide rearward. You'll see what I mean when you get this far. You can remove the entire "harness" and set it aside. [See pic 3]
8. Remove tank and straps from old skid and transfer to new skid. Do not over tighten gas tank straps!! Snug the strap nuts only. This will be sufficient to keep the tank from moving around. Re-install the hose harness that was removed in the previous step.
9. Raise the new skid assembly into the Jeep while guiding the EVAP and filler hoses between the frame and body. When getting close to the top, tilt the skid backward to allow the front mount to clear the track bar while lifting it higher. Once the front mount is clear, reposition the skid and continue to lift. Be careful that you don't pinch the hoses or connector while lifting it. Go SLOW!
10. Loosely install the 7 skid plate nuts. Slide the Kilby skid as far back as you'd like it and tighten these 7 nuts to 141 inch lbs. Remove the floor jack.
11. Re-connect the high pressure hose and two vapor hoses at the Drivers side and two vapor hoses on the Passengers side. Re-connect the electrical connector and don't forget to slide the red clip into place.
12. Zip tie the axle vent hose to the filler hose.
13. Reinstall the fuel filler bezel and reconnect the battery.
14. Start the engine and check for any fuel leaks.

If you have any questions at all, please contact our office for additional help.

## Tools You Will Need

- Deep well and short 1/2" sockets
- Long extension (12" long should do)
- Phillips and Flat tip screwdrivers
- Floor Jack
- Hammer
- Shop rags
- Wire Cutters
- A Friend



Thanks for buying a Kilby Enterprises product!





**Please read the following to verify the application for your specific Jeep!!** On97-02 TJ's, we recommend a 1" body lift or our 1" spacer kit, but you don't have to. The 03-04TJ's & 04LJ's require a body lift or spacer kit. The '03-Up Wranglers do not use the same gas tank as previous models! (Note: Spacer requirements are unknown for the 2005-2006 TJ at this time.) We haven't had any issues with the install on the 05-06, but haven't had one in the shop for 100% verification. If you have any questions about the install, please call the shop and we'll go over them with you. It's really not that hard, just a little more time consuming.

#### Tools You Will Need

- Deep well and short 1/2" sockets
- Long extension (12" long should do)
- Phillips and Flat tip screwdrivers
- Floor Jack
- Hammer
- Shop rags
- Wire Cutters
- A Friend

#### REMOVAL

1. Disconnect the negative battery cable.
2. Remove the gas cap and the 8 screws holding the bezel in place. Replace the gas cap to keep dirt out of the tank.
3. Cut zip tie holding the axle vent tube to the filler hose.
4. (If applicable) Using a flat tip screw driver, remove the ground strap attached to the top of the drivers side shock mount. You can access this between the frame and the body.
5. Disconnect the electrical connector at the front left corner of the gas tank. Slide the red clip to the side then separate the two connectors.
6. Disconnect the EVAP hose by twisting and pulling. Be careful you don't bend the steel tube.

The next step requires disconnecting the high pressure line. If you haven't released the pressure in the fuel system, now is the time to do it. Otherwise, gas will leak out of this connector when you release it. Make sure you are not directly under the connection when you disconnect this line.

7. Disconnect the high pressure line by using your fingers and pinching the two plastic tabs together and separating the connection. Do not use tools to do this. Damage may occur to the plastic tabs.
8. Position your floor jack under the center of the factory skid plate to support the weight of the tank. Remove the 3 front nuts and 4 rear nuts that hold the factory skid plate to the frame. Do not remove the 2 strap nuts at this time.
9. Slowly lower the tank assembly while guiding the filler hoses around the frame. This is where a friend comes in handy.
10. Do a trial fit. Before installing the gas tank in your new skid, lift the empty Kilby skid up into the Jeep to check for fit.

#### INSTALLATION

11. Remove the 2 nuts holding the straps in place. Make a note of the placement of the fuel lines and disconnect the drivers side vent hose that is connected to the roll-over valve. Raise the two straps without bending them and lift the tank out of the factory skid plate. Discard the factory skid. Slide the 2 straps in the Kilby skid, holding them straight up while placing the fuel tank into the new skid. Insert the strap studs into the holes and tighten the nuts. Do not over tighten! Due to the new shape of your skid plate, you will not have to thread the nuts as far up the stud as the factory skid setup was. Tighten them enough to secure the tank and keep it from moving. Don't forget to re attach the vent hose for the roll-over valve.
12. Raise the new skid assembly into the Jeep while guiding the filler hoses between the frame and body. When getting close to the top, tilt the skid backward to allow the front mount to clear the track bar while lifting it higher. Once the front mount is clear, reposition the skid and continue to lift. Be careful that you don't pinch the 2 hoses or connector while lifting it.
13. Loosely install the 7 skid plate nuts. Slide the Kilby skid as far back as you'd like it and tighten these 7 nuts to 141 inch lbs. Remove the floor jack.
14. Re-connect the high pressure hose by sliding the 2 fittings together until a click is heard. Re-connect the EVAP hose and electrical connector. Don't forget to slide the red clip into place.
15. Zip tie the axle vent hose to the filler hose and reconnect the ground strap to the drivers side upper shock mount.
16. Reinstall the fuel filler bezel and reconnect the battery.
17. Start the engine and check for any fuel leaks.

Thanks for buying a Kilby Enterprises product!

