



Fuel Sender Installation

Tools Needed:

- 1" Hole Saw
- Drill
- #2 Phillips Screw Driver
- Box cutter

Shop Supplies:

- Petroleum Safe Gasket Sealant
- Shop Rags

Additional Recommended Products:

- Fuse Block
- BRP Dash Panel Kit

DO NOT PERFORM INSTALLATION UNLESS IN A WELL VENTILATED AREA!!

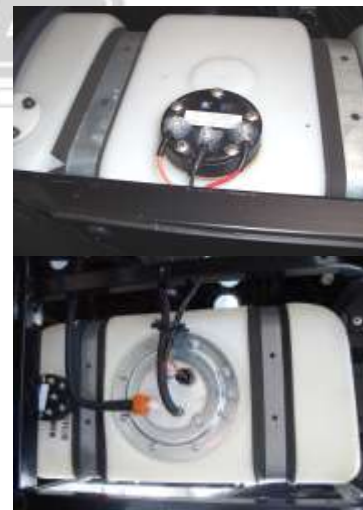
The safest way to drill a hole in the fuel tank is to drain the fuel and rinse with water and let tank dry thoroughly. Remember that all power tools emit a spark and ignition of gas vapors may occur even in a well ventilated area. We suggest removing, draining, rinsing and letting the tank dry before installation. If you do not take these safety steps Black Rhino Performance cannot be held liable for any injury or damage.

Procedure:

You'll need to drill a 1" hole in your gas tank to install the fuel kit's fuel level sender. The safest way to do this is to remove the fuel tank from the vehicle. With the tank removed, it's easier to work with, and it's easier to avoid getting plastic shavings in the tank. To remove the fuel tank, follow the factory removal and installation procedures in your service manual. Note: see figure 1 & 2 below. Mark location of the sender BEFORE you remove the fuel tank. Also carefully label the lines going to the tank so they go back in the right places.

NOTE: Your equipment may look slightly different from the following photos.

Yamaha Rhino 660 – The sender should go to the side of the raised boss on the tank. Typically, the sender will be placed toward the outside of the vehicle as shown.



Yamaha Rhino 700 - The sender should be installed at the rear end of the fuel tank (closest to the bed) and in the center from side to side,

Kawasaki Teryx - The sender should be installed at the rear end of the fuel tank (closest to the bed) and in the center from side to side,



Fig 1

You will now proceed to drill the hole using a 1" Hole saw similar to the one shown.



Fig 2

As you drill the hole you will periodically check to see how deep you've gone, the goal is to cut as close as possible but not go all the way through. It helps to blow away the loose bits of material before you pull the saw back to check.



Fig 3

You will want to carefully remove all loose bits of plastic from the cut channel. Once finished it should look like this before proceeding.



Fig 4

Now insert a T handle wrench into the hole to keep the plug from falling in as shown, a screwdriver will work as well. Use a box cutter to finish the cut and pop the plug out using the T handle.

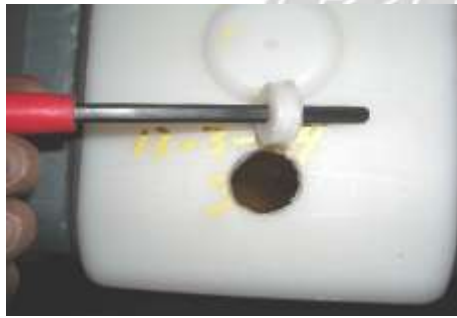


Fig 5

Once you have made the cut all around the plug will pop out. Now is a good time to check and make sure that you didn't drop a bunch of cuttings in the tank. If you were careful there shouldn't be anything in there.



Fig 6

Now that that is finished it is time to install the sender. First you will want to coat both sides of the cork gasket with a petroleum resistant gasket sealant. The pattern of the holes is not symmetrical so make sure the holes on the sender line up with the gasket.



Fig 7

Finish the installation by hand tightening the screws and just tight enough without forcing the gasket out from under the sender. Let the cork do its work, over tightening can cause leaks.

If you removed your fuel tank for the sender installation, reinstall it now.



Using the BRP wiring harness, the orange lead from the harness goes to the pink wire from the sender. The black lead from the harness goes to the black lead from the sender.

If you are wiring this sender without a BRP wiring harness, the pink lead from the sender should go to the sender terminal on your gauge. The black lead is ground.

After connecting the harness to the sender, take the harness down the side of the tank and along side of the factory loom. Secure with zip ties 8" to 10" apart. Be sure there is a little slack; there is a lot of movement in a UTV when it is running. Continue to secure the harness alongside the factory loom, be sure to only snug the zip ties. Be sure the harness will not be pinched or rubbed by anything.

Completion

As always, if you have any questions, concerns, or suggestions please call us at 619-561-5000 or drop us an email at CustomerServices@BlackRhinoPerformance.com.

