

2014 GLK250BT DEF Refill DIY

This procedure takes about **45 Minutes** to do, probably less after the first time. It's not difficult, and doesn't require special tools, unless you count a bottle of ADBLUE with a special fitting the first time you perform the fill.

Tools Required: 10mm socket with extension, utility knife (first time only)

DEF Info: I purchased a single 1.89 liter (half gallon) bottle with a special spout on it that fits onto the fill port on the GLK. It's the bottle on the left below. On eBay, it was \$18.77:

<http://www.ebay.com/itm/151101102309?item=151101102309&viewitem=&vxp=mtr>

I also purchased two 2.5 gallon containers of DEF from my local Advance Auto Parts for \$12.99 each. They happened to be on sale:

http://shop.advanceautoparts.com/webapp/wcs/stores/servlet/product_bluedef-diesel-exhaust-fluid-peak_10082203-p?searchTerm=def These are shown in and out of the box in the picture. Note that

this DEF meets the ISO Standards 22241 required by Mercedes. Wal-Mart and many other stores also carry these same 2.5 gallon units.



I did this fill at about 11,500 miles (same time as my second oil change), and it took about a quart less than the 5.5 gallons total I had on hand. If done at 10K intervals, I'm guessing the two 2.5 gallon containers will be about perfect.

Here's the step-by-step process I used:

1. **Remove the cargo area cover** to expose the small storage area underneath. Take everything out of there because the molded storage cover will need to be maneuvered out of it's location. The ADLUE fill port is under the left hand side of the molded cover in the location indicated by the blade of the screwdriver.



2. To make the molded cover removal easier, **use the 10mm socket to remove the two nuts from the studs at the locations shown here** on the right side of the compartment. You might only have to remove the top one.



3. Once the nuts are removed, **gently pull up on the plastic cover that was held down by the nuts, while pulling the molded storage cover up and forward**. It can be wiggled out with a little effort. Once the cover is removed, the cover to the ADBLUE fill port will be clearly visible in the lower left. **Twist and remove this outer cover to expose the actual fill port cover.**



4. **Unscrew the tethered fill port cover** and move it aside. Unscrew the top of the half gallon ADBLUE bottle. **Invert the bottle and screw it onto the fill port.**



5. **Press downward on the bottle to release the ADBLUE into the tank.** The bottle feels like it is spring loaded, and will move down about an inch. Note: there is a tube inside the bottle that enables air to escape the tank while the bottle is emptied. This bottle will be re-used as the funnel when the larger DEF bottles are used to fill the remainder of the tank.

6. **FIRST TIME FILL ONLY:** Remove the (now empty) half gallon ADBLUE bottle from the fill port and use a utility knife to cut a hole in the bottom.

7. **Screw the bottle onto the fill port** as shown. Using a 2.5 gallon DEF container, **fill up your new “funnel”**. Once filled, **press downward on the funnel to release the DEF into the tank**. Note: a little bit of DEF may splash, or be released from the air vent in the bottle. This can be wiped up with a rag later.



8. Repeat step 7 until no more ADBLUE will go into the tank. Any DEF still in the funnel can be poured back into the larger DEF container using a conventional funnel.

9. When the funnel is removed from the port, some DEF may be released around the port, as shown. Wipe this up with a rag. In my case, a little bit of DEF seemed to follow a catch basin and be routed onto my garage floor.

10. **Clean up any spillage and reverse the procedure to restore the vehicle to normal.** Put the fill port cap and blue cover back on. Put the molded cargo cover back in, and re-install the nuts on the plastic cover on the right. Put the cargo cover back on and you are done.