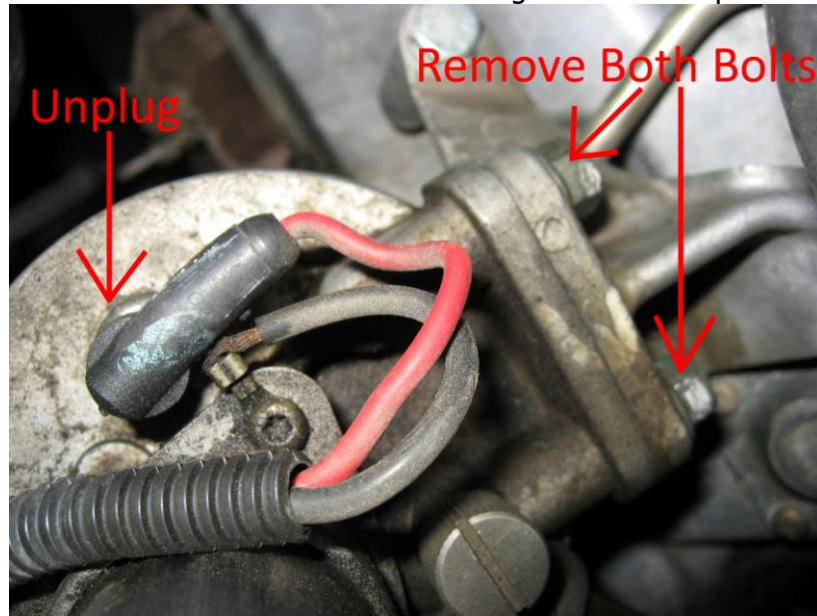


Thank you for purchasing the Nicktane Duramax Fuel Filter Kit. Please read all the directions thoroughly before beginning the installation process. This kit fits all model years of the Duramax.

**1) Remove OEM Filter and Filter Head:**

Remove the stock fuel filter and discard it. Make sure to save the water in fuel sensor in case you need to revert back to the stop setup later. Next, unplug the red wire that connects to the heating element and remove the two bolts that attach the filter head to its mounting bracket. See picture below:



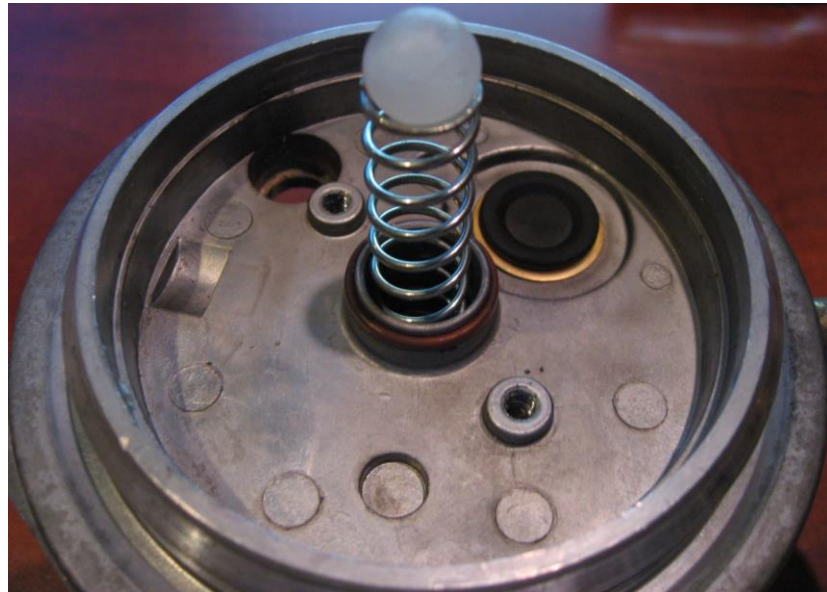
**2) Disassemble OEM Filter Head:**

With the OEM filter head unbolted from its bracket you can now flip it over and see the underside of it. Using a T-20 Torx remove the two bolts pictured below. This will allow you to remove the center section as pictured below:



### 3) Remove Center Section:

Lift the center section out of the cast aluminum head which will expose the check ball and spring. Remove the check ball and spring pictured below. If you have purchased the **OEM Filter Head Viton Replacement O-Rings** now is the time to install them. If not, continue with the next step.



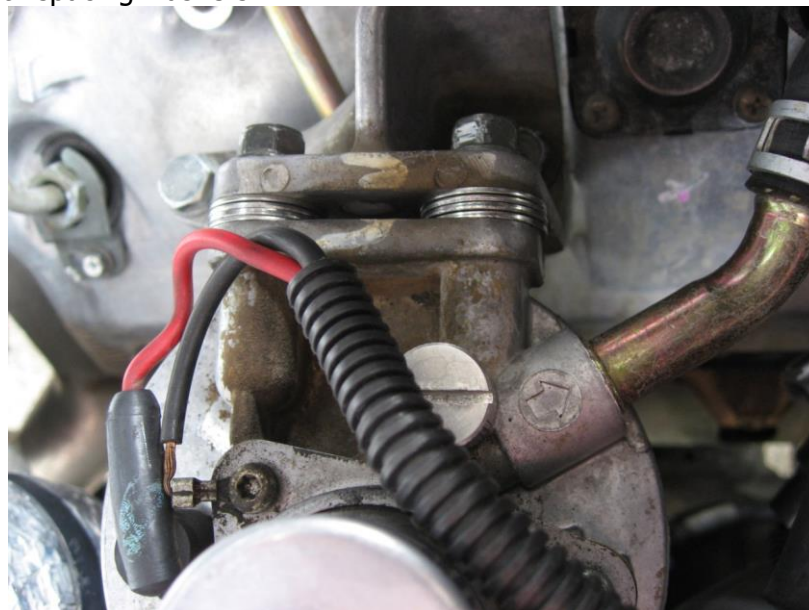
#### 4) Re-Assemble:

Re-Assemble the filter head in the reverse order used for disassembly. Once done it should look as pictured below with no spring or check ball. The check ball and spring are removed to allow fuel to flow less restricted through the filter head. In stock form the check ball presents a potential restriction in the flow of fuel.

Re-Attach the heater wire (removed in step 1) to the top of the filter head and re-attach it to its mounting bracket (also removed in step 1) using the spacer plate (if purchased). Note- the picture shows flat washers which have been replaced by the spacer plate. This step is only required if you are using the 1 Micron filter (The CAT filter has a slightly smaller diameter) or have a 2011+ year truck. You can see the spring and check ball sitting off to the side in the picture below:



Picture of filter head with spacing washers:



#### 5) Attach adapter to OEM Filter Head:

Verify both O-rings are properly seated in the adapter. Apply a thin layer of grease to each O-ring to ensure a good seal. Next thread the adapter onto the OEM filter head until it is tight. There are 8 holes evenly spaced

around the circumference of the adapter designed to tighten the adapter down. The hole size is drilled for the back end of a 1/4" drill bit. Simply insert the back end of the drill bit and tighten, moving from one hole to the next as needed for access until the desired tightness level is achieved.



**6) Finish and Bleed the System:**

Apply a thin layer of grease to the spin-on filter's seal then screw it onto the adapter making sure it is sufficiently tight. Please make sure the O-Ring is in place over the nipple before installing. If you use the Donaldson filter use the seal included with the filter in place of the o-ring on the nipple.



Prime this filter the way you would the stock filter and congratulate yourself on a job well done!

Completed Picture:



Thank you again for purchasing a Nicktane Fuel Filter Kit!