



## 3.0L LM2/LZ0 Fuel System Saver 301 Block

### Vehicle Fitments:

- 2019 - 2022 Silverado / Sierra 1500s
- 2021 - Present Chevrolet Tahoe/Suburbans
- 2021 – Present GMC Yukons/Yukon XLs
- 2021 – Present Cadillac Escalade/ ESV

### Kit Contents:

<b>Fuel Block w/ pressed-in plugs (Qty.1)</b>	
<b>VSE Bracket with (2) Studs &amp; (2) Flange Nuts (Qty.1)</b>	
<b>8mm Flathead Bolts (Qty.2)</b>	
<b>90° Fuel Fitting w/ O-ring &amp; 5mm Bolts (Qty.2)</b>	
<b>Fuel Filter Adapter w/ O-ring (Qty.1)</b>	
<b>Water Separator Adapter w/ O-ring (Qty.1)</b>	
<b>6mm Bolts (Qty.3)</b>	
<b>Stainless Alignment Pin (Qty.1)</b>	
<b>Conductivity Probe O-rings (Qty.2)</b>	
<b>Fuel Filter (Qty.1)</b>	
<b>Water Separator (Qty.1)</b>	

**Completed by:** \_\_\_\_\_



## Instruction Guide

(For detailed instructions/ pictures please visit our website [Runvse.com](http://Runvse.com) or scan the QR code)

**Step 1: Disconnect** battery

**Step 2: Locate** the OEM fuel filter assembly near the middle/driver's side of the truck

**Step 3:** Using a T40 Torx socket and a bucket, **slowly loosen** the nut at the bottom of the fuel filter housing to drain any fuel/water. Using a 36mm socket, the filter head can also be removed to release any remaining fuel but is not required.

**Step 4:** Carefully **disconnect** both quick-connect fittings from each side of the factory housing by following the below steps

**!! THE SECURITY CONNECTORS BREAK EASILY CLEAN AND DEGREASE THE CONNECTOR AREA BEFORE TRYING TO DISCONNECT!!**

- a. **Lift** the BLUE safety lock out of the way.
- B. **Using your fingers only** push in on the white tab while pulling the fuel line out.  
- If you break one of the white clips a Dorman 800-040 can be used for replacement.

**Step 5:** Carefully **squeeze together** the base of the electrical connector on top of the filter housing to release.

**Step 6:** Loosen the three nuts on the backside of the factory bracket through the outer holes in the frame, but **do not remove**, then slide the housing towards the front of the vehicle, and pull out to remove.

**Step 7: Remove** the three screws holding the conductivity probe to the housing and use a small flathead screwdriver to slowly unseat the probe.

**Step 8: Remove** and discard the large and medium O-rings from the probe and replace with included O-rings. The small O-ring at the tip can be left in place.

**Step 9: Install** probe into the new Fuel Filter Block using the three 6mm bolts (be sure to lubricate each O-ring and mating surface on the block). Hand thread each bolt into the holes after lining up the probe's slot with the stainless pin. Carefully tighten each bolt a few turns each until the large O-ring becomes seated and the bolts are tight.

**Step 10: Install** the Fuel Block and bracket up into the two factory frame holes, and slide towards the rear of the vehicle. Using a 13mm socket, tighten the bracket through the outer frame holes.

**Step 11: Reconnect** electrical connector to conductivity probe.

**Step 12: Reconnect** and lock both quick-connect fuel fittings.

**Step 13:** Using clean oil or diesel fuel, lubricate both O-rings on your new filters before tightening them to the Fuel Block (the threaded adapters are different sizes which does not allow for incorrect installation of filters).

**!! Make sure to tighten the water separator drain cap (Failure to do so may result in fuel drainage in lower temperatures as the sealing rubber will shrink)!!**

**!! Using a filter strap wrench TIGHTEN THE WATER SEPARATOR AT LEAST ½ TURN tighter to ensure proper outer seal  
Oring crush – Failure to do so will allow the filter to leak after priming has started !!**

**Step 14: Reconnect** battery

**Step 15: Prime** your truck by pressing and holding the start button, **without your foot on the brake**, until you hear the lift pump start to prime the fuel lines. If your truck has a key, turn it to the **ON** position but do not start the truck. Truck may take a few seconds longer to initially start. Check for leaks and enjoy your new **Fuel System Saver** by VSE!