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## GVW-VANO-FF-UPGRADE GoWesty Fuel Filter Upgrade Kit

This kit is designed to eliminate the technically-obsolete pre-filter on early-model Vanagons and upgrade them to the larger, more efficient canister filter set-up found on later model vans. The pre-filter is tiny and clogs easily, causing the fuel pump to cavitate, or starve for fuel, thus shortening the life of the pump.

### Parts Included

(1) Reducer hose assembly	(1) OEM large metal filter
(3) 7mm ear clamps	(3) 12mm ear clamps
(2) Screw clamps (for filter)	(1) Large 14" zip-tie
(1) Small 7" zip-tie	

### Installation

1. Disconnect the hose from the fuel tank and drain your tank completely.
2. Remove the hoses and filter between the tank and the pump.
3. Install the large (12mm) side of the new reducer hose assembly to the pump with one of the large ear clamps. **NOTE: If you have an auxiliary heater (belly heater) you will need to cut the large (12mm) hose midway and install the factory T-fitting (additional clamps are provided).**
4. Route the hose to the tank, trim to fit, and attach it to the tank with one of the small ear clamps. Secure the hose to the frame rail with the stock clip, if present, or thread the included small zip-tie through the frame rail in a convenient location. Save the excess hose (approximately 8"), as it will be cut into two pieces and used to attach the new filter to the output side of the pump.
5. Remove the hose from between the outlet of the pump and the nylon fuel line running aft to the engine.
6. Find the two horizontal slots in the frame rail, just aft of the pump and thread the large zip-tie through them. Position the new fuel filter over the zip-tie but don't secure the filter in place quite yet. Cut a section of the remaining fuel hose to fit between the pump and filter (approximately 4").
7. Secure the hose to the pump with one of the ear clamps and install the filter with one of the screw clamps (pay attention to the flow direction arrows). Secure the zip-tie firmly around the filter and clip off the excess.
8. Use the remaining hose between the filter and the nylon fuel line, using the screw clamp on the filter side and the ear clamp on the nylon line side.

