



Fitting Instructions for MFK1823

Fuel Regulator Kit for LS engine into Nissan Patrol GU ZD30 10-6

MFK1823A

Fuel Regulator Kit for LS engine into Nissan Patrol TB 8-8

GSS341

Fuel Pump Installation



Thanks you for purchasing a product manufactured by Marks 4wd Adaptors. The following instructions are intended as a guide. It is recommended that you purchase a workshop manual to suit the model engine you are fitting.

Note 1: The ZD30 kit has a 10mm supply and an 8mm return hose

Note 2: The TB kit has a 8mm supply and an 8mm return hose

Note 3: Diesel models will have to purchase an EFI fuel sender - 25060-VB204

The fuel line must be relocated to the top of the chassis under the filter regulator setup positioned on the shocker tower. The repositioning of the parts is also essential for fitting the exhaust and heat shield.



The fuel rail on the engine will need to be rotated 180 degrees. To do this unplug the injector wiring and undo the bolts holding the fuel rail to the intake manifold. Lift the fuel rail with the injectors attached off and rotate it 180 degrees. Note: The black end plates fitted to the manifold can be modified if you wish.



Assemble the bracket and regulator as per the image below:

Note 1: You may need to lubricate the hoses to fit over the rib on the filter

Note 2: Cut the supplied hoses to the required lengths



Secure the regulator with the supplied socket headed cap screws

The small barb should never be connected to a vacuum, all LS EFI engines require constant fuel pressure.

Make sure only EFI hose and hose clamps are used such as the ones supplied in our kit.

Fuel in and out is through the sides of the regulator (orientation is not important)

Fuel return to the tank is from the bottom of the regulator

The Nissan ZD30 return line is small (6mm) and may need to be replaced when using a high performance fuel pump. The small return line can cause a pressure increase in the return line when the engine is not using much fuel, this can cause the fuel regulator to pulse. If this pulsing occurs in you fuel system you should replace the return line with a larger one measuring 8 or 10mm

Vehicles fitted with the Nissan TB cut the supply and return hoses to length and fit them to the appropriate fuel pipes. Make sure you connect the supply and return correctly.



GSS341 Fuel Pump Installation

Remove the fuel pickup from the tank.

ZD30 models replace pickup with EFI petrol model. Note: Some models will also require the wiring to be changed.

Remove the factory Nissan fuel pump:



Fit the new high pressure fuel pump (GSS341).

The outlet pipe between the top of the pump and the top of the pickup may need to be shortened, this can be done by bending the pipe in a slight S shape.

Fit the new filter to the bottom of the pump.

Use the rubber adaptor from the bottom of the old pump to securely position the new pump in the bracket. (A rubber sleeve can be used around pump but is not required). Use a large cable tie to hold the bottom of the fuel pump.

Use the original EFI fuel hose and clamps to secure the pump to the outlet pipe. (If you are replacing this hose make sure you use the correct submersible fuel hose—standard fuel hose with rot away)

Fit the supplied harness to the pump, cut wires to length and solder the connections to the top of sender.



On the TB models you can blow compressed air up the fuel lines to check you have them connected correctly. Make sure you use EFI hose clamps.

Fit the new pump and pickup assembly to the tank. Note Clean and inspect the o-ring and the mating surfaces between the tank and pickup—replace any components that are suspect.

On the ZD30 models the fuel gauge/power connector on the body harness should have a blue/white wire which should line up with the power wire for the fuel pump, if it doesn't line up make it/. Check to make sure the pump earth also lines up.

If all is well connect the plugs.



On the ZD30 models the blue/white fuel pump power wire can be found behind the left hand kick panel, it runs into the back of the large white connector just under the dash.

Terms and Conditions

Thank you for purchasing this product manufactured by Marks 4WD Adaptors. Components supplied in this kit are designed and machined for a specific conversion only as outlined in this guide. Modifications to or substitution for any of the components without the written consent of Marks 4WD Adaptors will void any possible warranty or return privileges.

The following instructions are intended as a guide and only for Marks 4WD Adaptors kits. If you do not fully understand the steps, modifications or changes required to complete the conversion, contact our sales department for more information. We recommend that you purchase a service manual pertaining to your vehicle for specific torque values, wiring diagrams and other related information.

Contact Information

Web: <http://www.marks4wd.com/>

Email: sales@marks4wd.com

Phone: + 61 3 9552 6555

Address: 385-393 Lower Dandenong Rd
Dingley Victoria 3172
Australia