



## Direction-Plus Ryco Pre-Filter Installation Guide for Isuzu Dmax 2020 - On

This document is to be used as a guide for the installation of the **Direction-Plus™ Ryco pre-filter Kit (RC645DPK)** to a **2020 Isuzu DMAX**.

It is recommended that the installation of these products be carried out by a competent, qualified mechanic.

### Important before starting

- Ensure the engine bay is clean and free from contaminants
- The filter head has direction arrows indicating the direction of flow
- You have the correct tools to complete the fitment
- Read the instructions in full and familiarize yourself with the installation before commencing any work

### Maintenance / Servicing

- It is recommended to drain the element every 5,000 – 10,000km
- Ryco filter element is to be replaced every 40,000km or as per your vehicles service interval

### Included in the kit



|                                      |                                       |                                     |
|--------------------------------------|---------------------------------------|-------------------------------------|
| 1x ISUZU DMAX BRACKET (PLPV645-BR)   | 1x RYCO ASSY (Z980SK16L)              | 1x DP STICKER (DPLABEL6)            |
| 9x CABLE TIE (802078)                | 2x PUSH ON 90 DEG - 12MM (DPP0090-08) | 1x DEFENCE STICKER (DPLABEL7)       |
| 1x M8 x 16 BOLT 304 SS (SSSS304M816) | 2x FITTING 12MM (DP816-8-M1615)       | 1x DP HOLO SECURITY SEAL (DPLABEL8) |
| 2x 8MM X 17MM (FMW8)                 | 2m 12MM HOSE - GATES (DPFH12-GAT)     | 2x DP BAGS (DPBAG)                  |
| 1x NYLOC NUT M8 (FMN8)               | 2x FMC12 - CLAMP 12MM (FMC12)         | 1x DP ZIP LOCK BAG (DPZIPBAG)       |
| 2x WASHER - 6MM (FMW6)               | 1x WINDSCREEN LABEL (DPLABEL1)        | 1x RYCO FILTER KIT BOX (RCBOX)      |
| 2x NUT - NYLOC 6MM (FMN6)            | 1x ENGINE BAY LABEL (DPLABEL5)        |                                     |

\*Kit contents are subject to change based on availability



### Tools Needed:

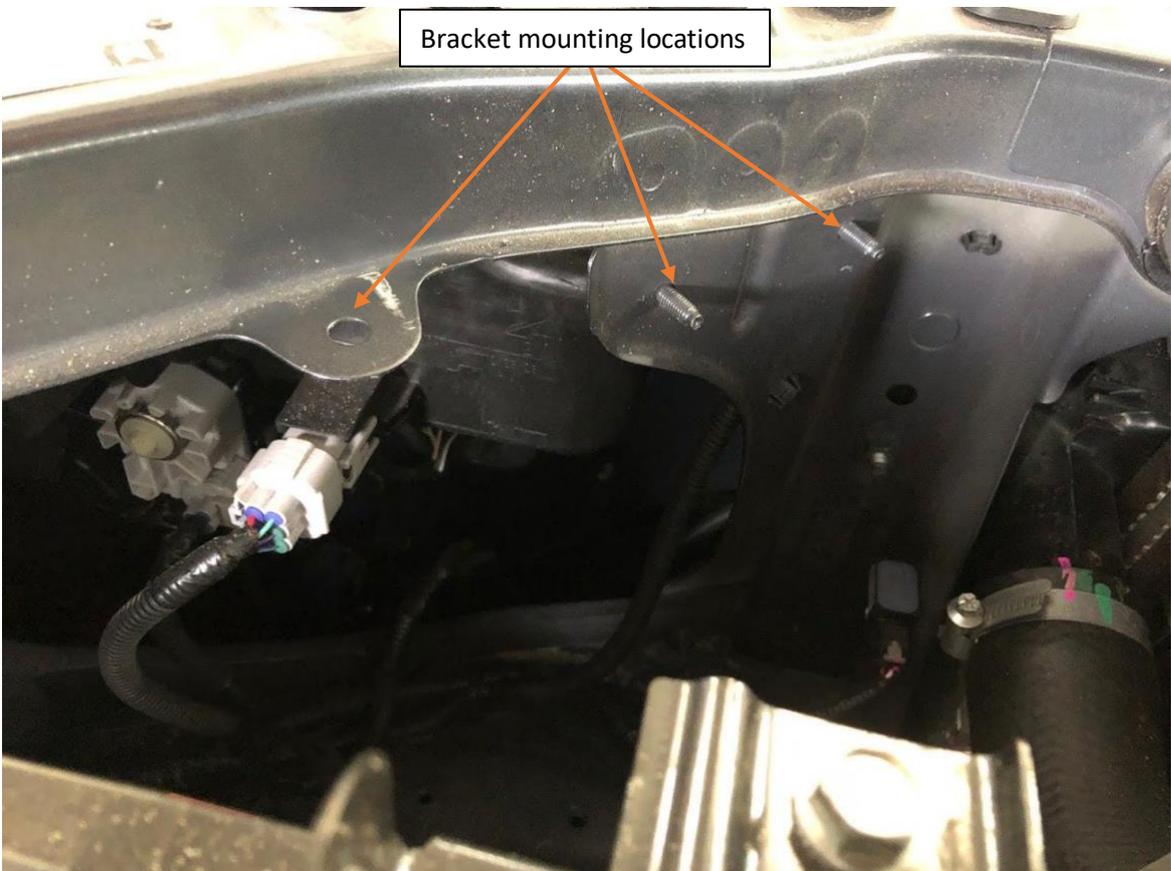
- Spanners
- Sockets
- Screw Drivers
- Pliers
- Snips/Cutter
- Rags
- Small container for priming
- We suggest using a thread sealant like Loctite 567 or equivalent.

### Installation Guide



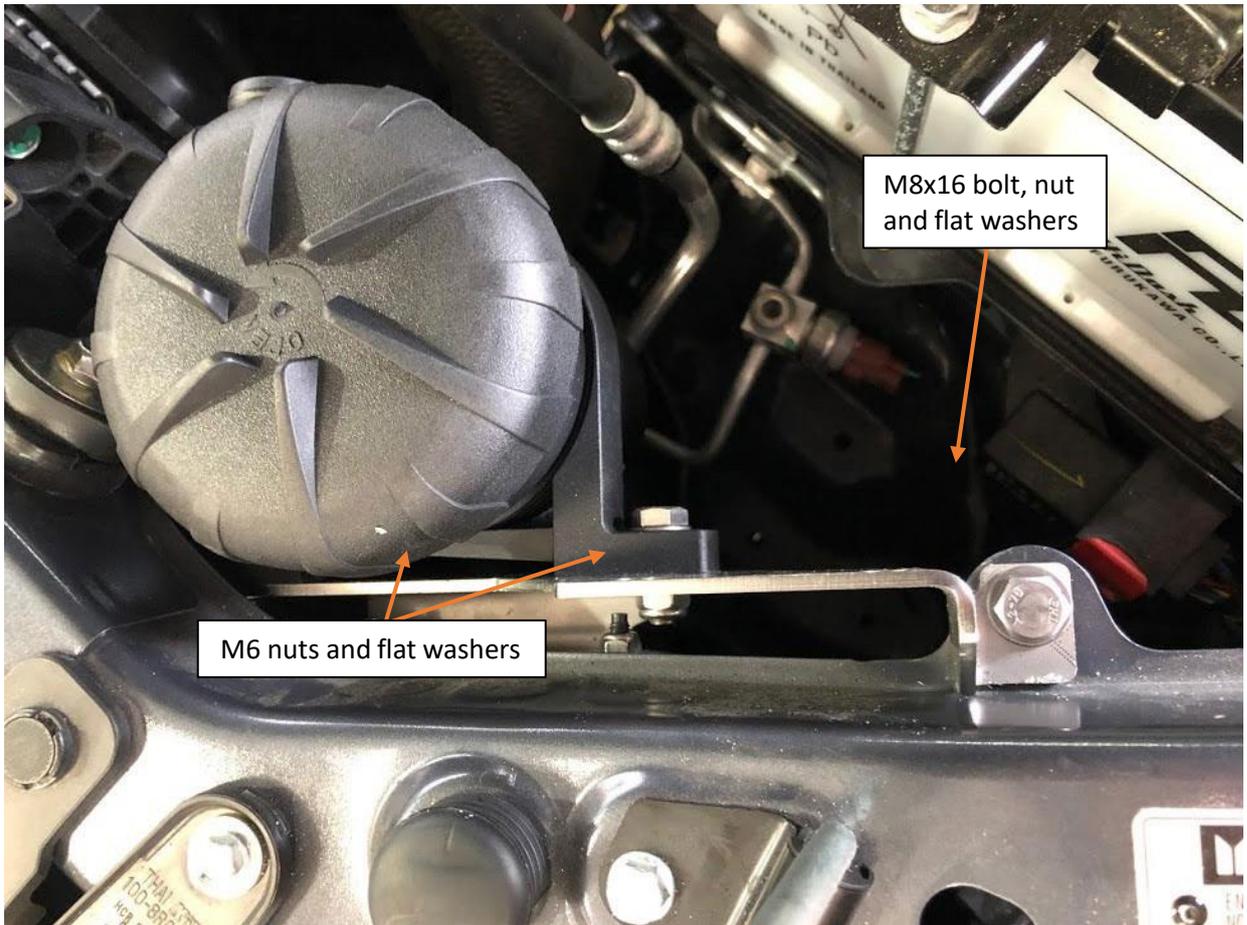
Ryco filter kit  
mounts in this

*Picture taken showing behind the passenger side head light*



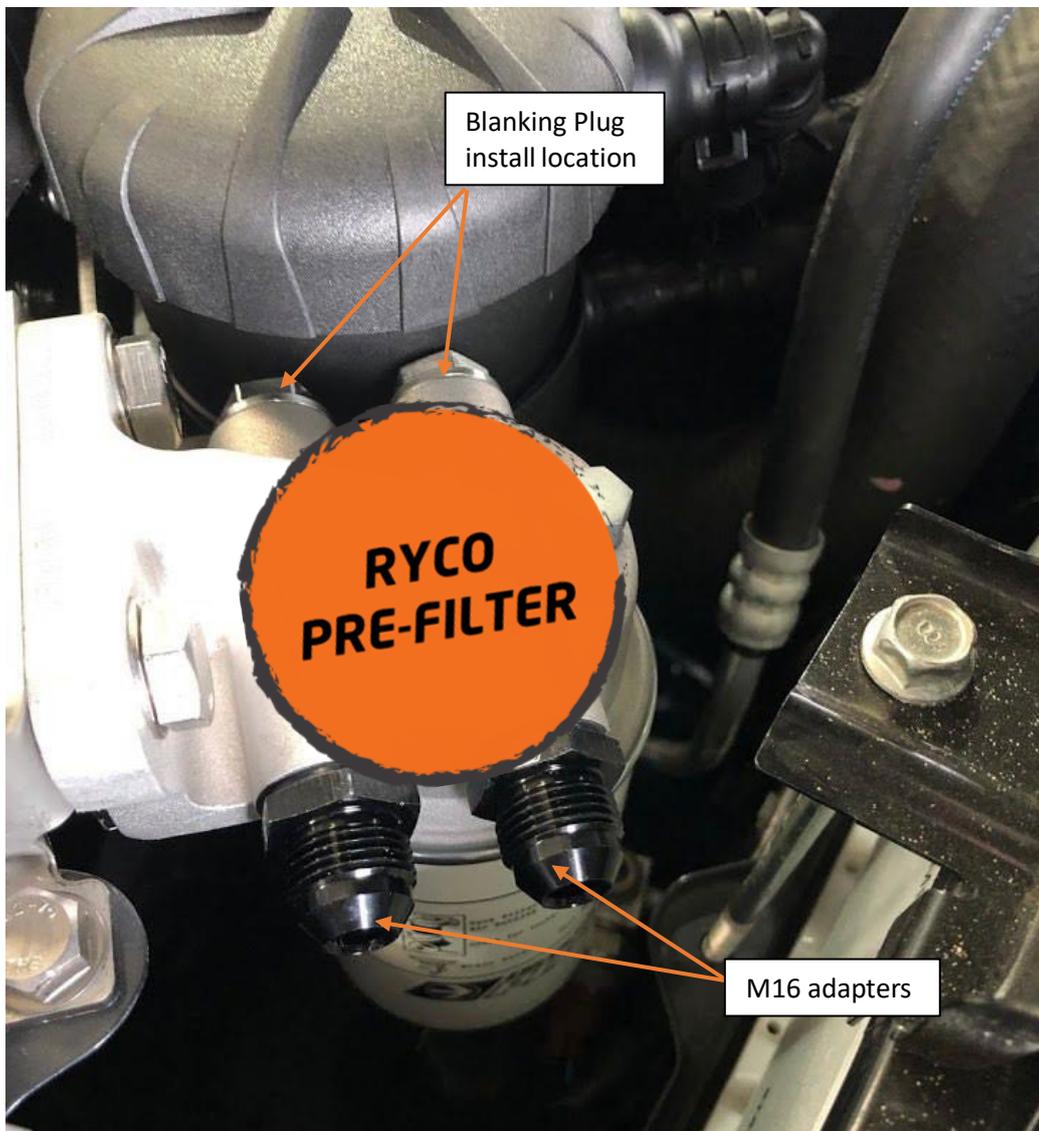
Bracket mounting locations

1. Mount the mounting bracket using 1x M8 bolt 2x M8 flat washer 1x M8 nyloc nut 2x M6 nyloc nut and 2x M6 flat washers. Loosely install the M8 bolt and Start both M6 nuts on the threads before you start tightening.



*Mounting Bracket Installed*

2. Fit the blanking plugs in the Ryco head so when the Ryco filter is installed that they are both on the side closest to the Engine.
3. Install the 2x M16 -8 12mm and 2x M16 flat washers to the remaining ports

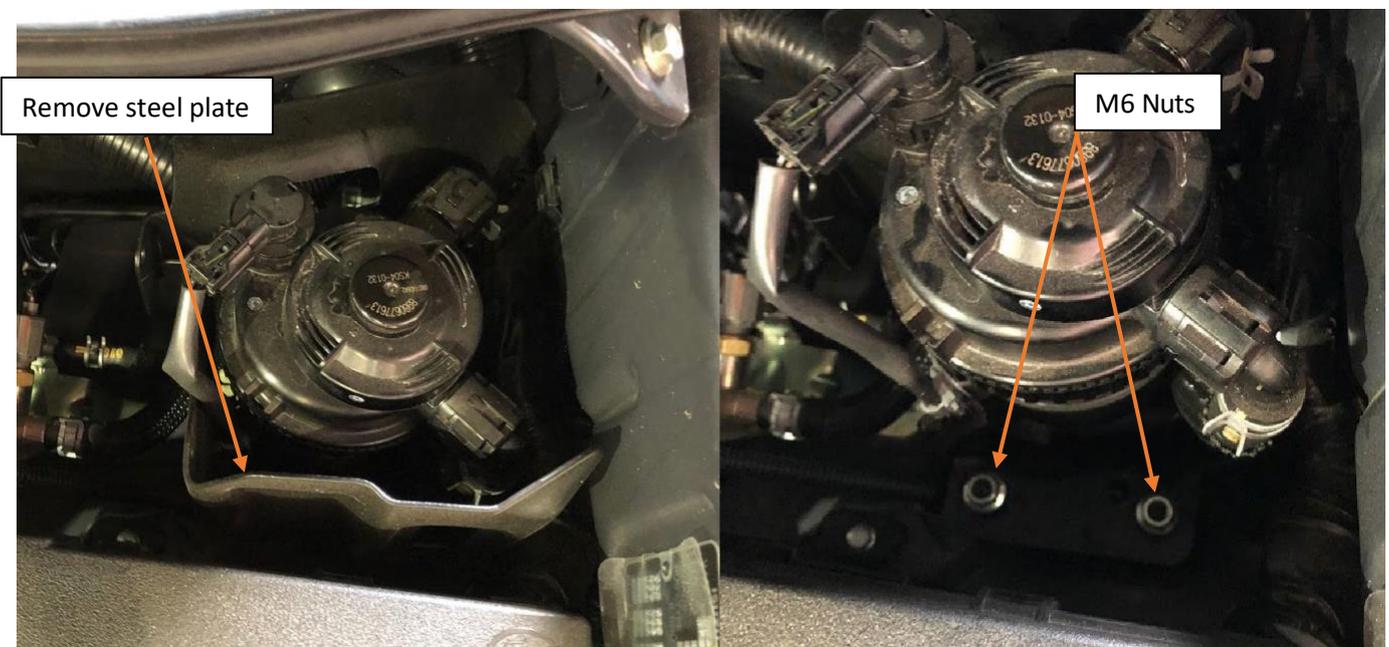


4. Using 2x M10x35 bolt, 4x M10 flat washer and 2x M10 nyloc nuts, install the Ryco filter assembly to the mounting bracket. See image on next page for reference.

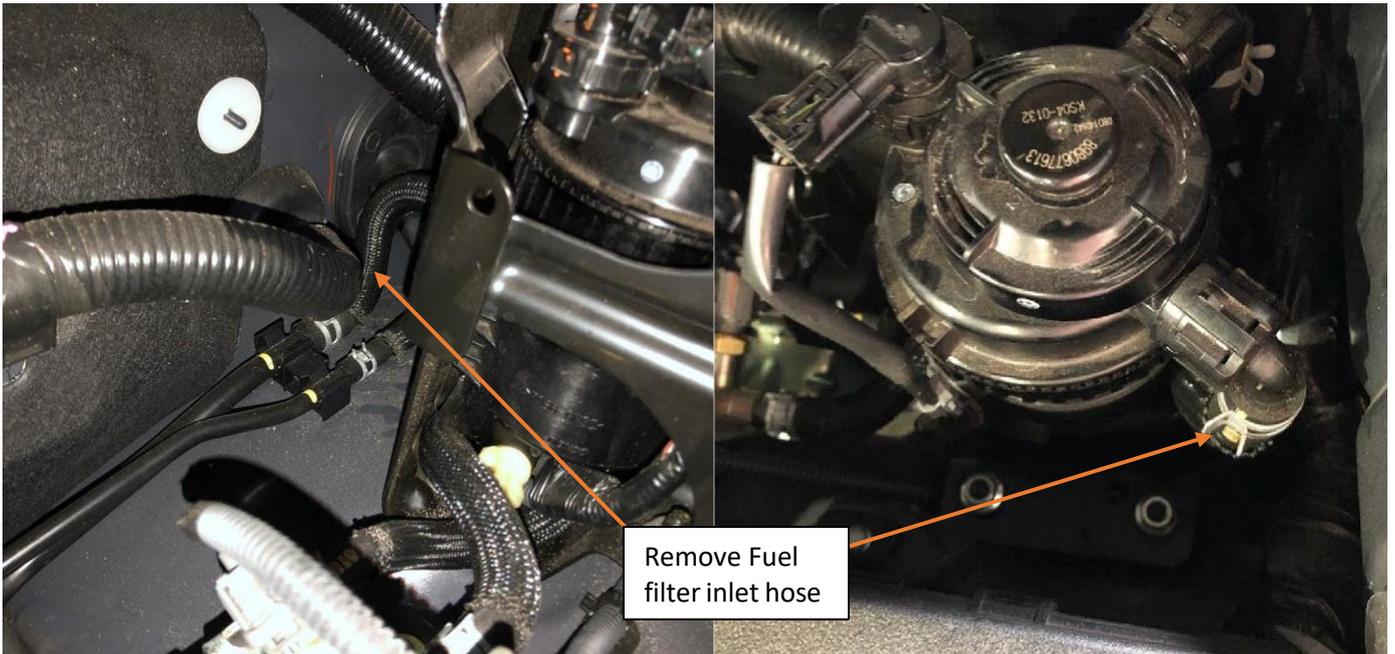


Ryco filter inlet & outlet

5. Remove the steel plate that surrounds the front part of the factory fuel filter. It is secured in place by 2 10mm head nuts. The nuts only need to be loosened and then the plate can be slid towards the front of the vehicle and lifted out



6. Locate the factory fuel filter inlet hose. Disconnect both ends of the hose and remove.



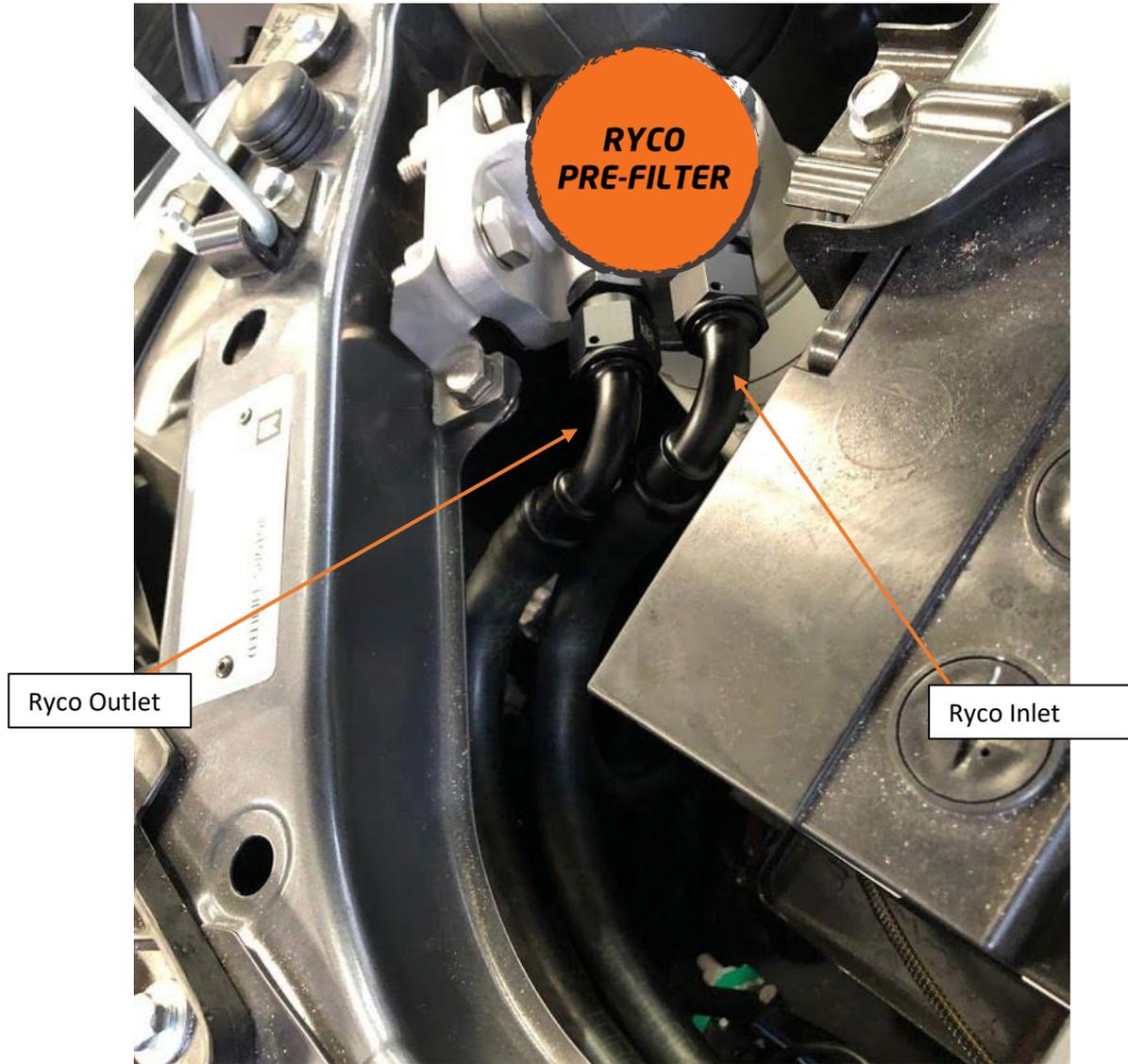
7. Using 2x 12mm hose clamps and the supplied 12mm hose install one end of the hose onto the steel fuel line coming from the fuel tank



8. Route the 12mm fuel hose around the factory filter and down the inner guard to the Inlet port of the Ryco filter.

9. Once you have determined the correct length cut the hose. Ensure there is enough slack in the hose so as not to kink. Refer to images below as reference
10. Using WD40 or similar install 1x 90° -8 12mm barbed fitting to the cut end of the 12mm hose. **Note: Hose clamps are not required for this type of hose fitting**
11. Loosely connect the previously installed 1x 90° -8 12mm barbed fitting to the inlet port of the Ryco filter
12. With the remaining length of 12mm hose and 1x 12mm hose clamp. Connect one end of the 12mm hose to the inlet of the factory fuel filter and secure with the 12mm hose clamp
13. Route the 12mm fuel hose down the inner guard to the outlet port of the Ryco filter.
14. Once you have determined the correct length cut the hose. Ensure there is enough slack in the hose so as not to kink. Refer to images below as reference
15. Using WD40 or similar install 1x 90° -8 12mm barbed fitting to the cut end of the 12mm hose. **Note: Hose clamps are not required for this type of hose fitting**
16. Loosely connect the previously installed 1x 90° -8 12mm barbed fitting to the outlet port of the Ryco filter
17. When satisfied out the routing of the 12mm fuel hose tighten the fittings on the Ryco filter





18. Using cable ties secure any loose fuel hose to prevent rubbing.
19. Prime the fuel system using the hand primer on the factory filter. When the primer goes firm, the engine is ready to start. **Note: this may take some time as the prefilter needs to be filled with fuel.**
20. Start and run the engine whilst checking ALL connections for leaks.
21. If the engine stalls check step 7 (double hose clamp hose to hard line).

## END OF INSTALLATION