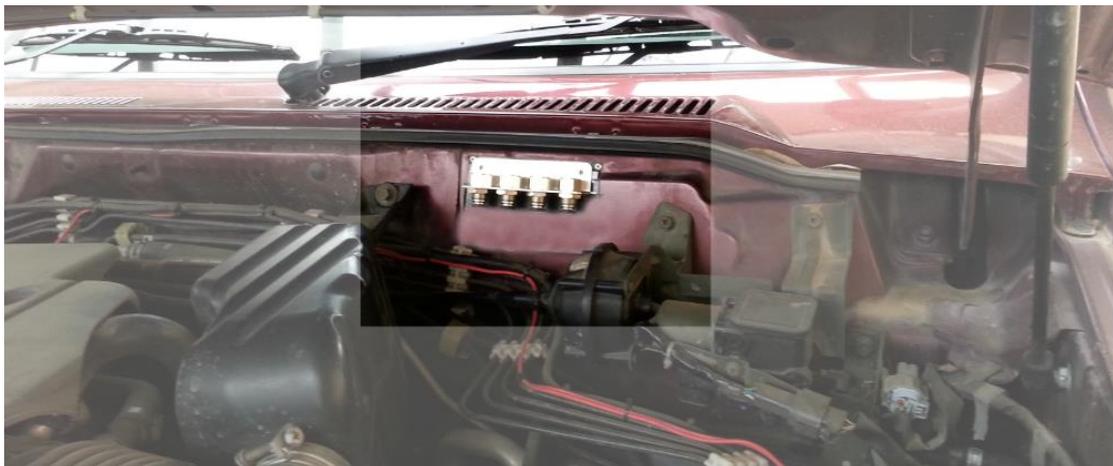


Note: This kit requires you to access the top of the gearbox and transfer case to install the breather adaptors. Although this can be done at home, it is best performed on a vehicle hoist which is why we recommend you get your mechanic to install the kit. Also, they will be familiar with the Patrol breather locations and routing techniques.

1 Assemble the 4 bulkhead fittings into the mounting bracket as shown.



2 Locate an area on the firewall of your Patrol suitable for mounting the bracket. This will vary depending on the specification level (DX, ST, TI etc.) and engine variant. Ideally you need a position as high up the firewall as possible and as flat as possible. Secure the bracket to the firewall using the two self-drilling screws.



3 Once secured fit the brass filters to the bulkhead fittings and tighten.

4 Starting at the rear diff, remove the existing breather from the axle housing and discard. Fit one of the straight fittings from the kit into the diff housing.

**Note: it may be necessary to apply some thread tape to the fitting to ensure a water tight seal.**

Take one end of the supplied tube and cut about 10mm off the end using a sharp blade. This is to ensure the end is cut cleanly and squarely. **The tube must be cut square and cleanly to ensure a good seal.** The fittings have an O-ring inside which seals on the outside diameter of the tube so make sure the tube is not scratched or damaged. Push the tube firmly into the fitting until it bottoms out. Give the tube a light tug to ensure it has locked into place. Route the tube up to the breather fitting in the rear cross member and secure to the cross member using cable ties. Ensure that there is enough slack in the tube to prevent it being pulled out under full suspension droop.

**Suggestion: copy the length and location of the factory breather hose.**

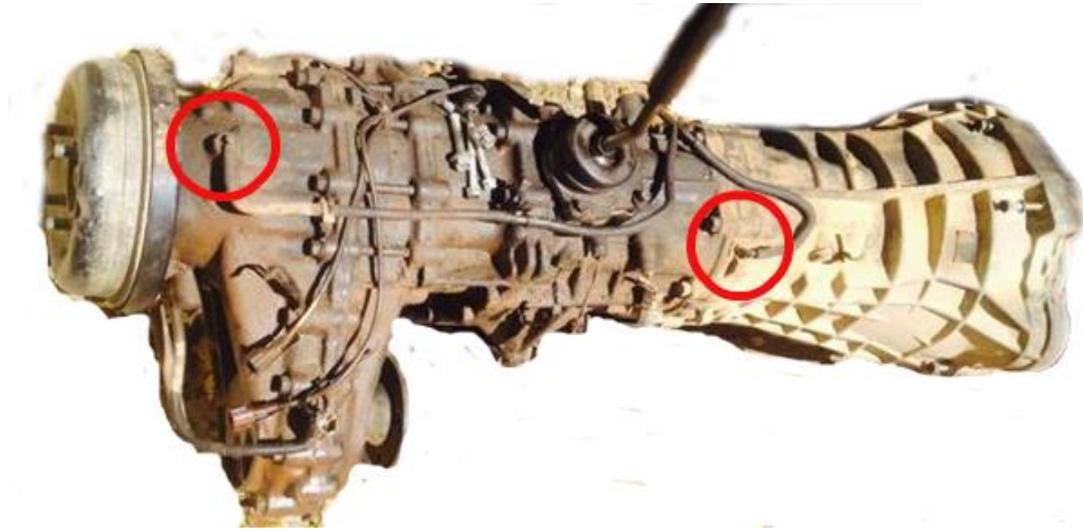


Continue routing the tube to the bracket on the firewall fitted in step one, securing with cable ties as you go. Ensure you route the tube well away from all hot surfaces and sharp edges. The vehicle brake line offers a good mounting point and is generally routed away from sharp edges and hot surfaces.

5 Repeat step four for the front diff, copying the routing of the existing breather tube from the axle housing to the chassis then continue to the firewall. Secure with cable ties where needed.

**6** Remove both the transfer case and transmission breather fittings and replace with the 90 Deg fittings in the kit.

**Note:** Once again it may be necessary to apply some thread tape to the fitting to ensure a water tight seal.



**7** Doing one fitting at a time, insert the tube into the fitting and route to the bracket on the firewall, once again ensuring you route the tube well away from all hot surfaces and sharp edges.

**8** Once all tubes have been routed to the firewall ensure their ends are cut squarely and cleanly then push one tube into each of the bulkhead fittings.

**9** Recheck all tubes for correct routing and ensure they are securely attached away from heat and sharp edges.