



# FITTING INSTRUCTIONS FOR PATROLAPART Y62 DIFF BREATHER KIT

**SKU: PAP-1140**

This Kit is designed to Extend Front Diff, Rear Diff, Transfer case and Gearbox Breathers into the engine bay beside the Air Box.



The Black Hose provided does not have much excess at the end so follow the instructions on where to cut it.

1. Start By assembling the Provided Barbs into the Hose fittings and tighten so they are ready for installation to the vehicle.



2. Under the Vehicle, at the RH rear corner of the transfer case you will find a rubber hose, this is the factory transfer case breather hose.



3. Cut this hose where it Bends around the corner and connect a Barb into each side of the cut hose.

The Left hand piece Goes into the transfer case breather and this will remain the transfer case breather.



4. The Right Hand Hose running forward along the gearbox will become the New gearbox Breather. We Find it easiest to reach the gearbox breather fitting with the shift cable disconnected.

Be careful of the sharp edge of exhaust heat shields

5. Follow this Hose forward, above the Shift selector you will find a Plastic joiner, disconnect the hose from the plastic joiner.

Next to this you will find the Metal breather into the gearbox- remove the rubber hose from this.

Attach the Rubber hose that you have previously cut and disconnected from the plastic joiner, onto the metal breather fitting making sure it doesn't kink. If need be, slide the hose along the clamps a little bit to give a bit of extra length.

The 2 hoses running forwards can be discarded they are the old breather lines up onto the bellhousing



6. Connect both ends of the Supplied black breather pipe to the 2 Fittings you have installed and use the 2 supplied P Clamps to attach to the studs in the floor above the tail shaft keeping the lines as far from the exhaust as possible



7. Run the Lines across to the chassis Rail and attach to the HBMC hydraulic line.



8. Run the 2 lines into the engine bay- between the Engine ecu and the Guard and cut to length



9. You will Locate the front diff breather hose Attached to the side of the Air Box with a clip. Remove the Clip, Attach the Barbed Adaptor supplied, and cut a short piece of hose to extend across to the Inner guard.



Run the line under the ecu and cable tie to secure.



10. At the Rear of the Vehicle, you will find a metal pipe which runs in front of the spare tyre, below the fuel tank.

This has a short rubber hose which connects to another metal pipe which runs into the inner guard. Disconnect this rubber hose and install the Supplied adaptor as pictured.

Run the line along the top of the chassis Rail and along the HBMC line with the Gearbox and transfer case lines, secure along the length of the line and make sure the line is free from pinch points or sharp edges that could rub through it.

11. Cover the inner panel with some masking tape, and mark out even lines for drilling the holes for the breather.

They should be spaced 10mm in from the front edge and 20mm from each other.

Drill a 5mm pilot hole then open them up to 10mm.

Remove Tape, De-Burr the holes, vacuum swarf and coat the unpainted edge with some touch up paint.



12. Assemble all 4 breather fittings into the guard, Trim the Hoses to the correct length, using a sharp razor blade and making sure to cut them straight, and Plug them into the fittings.

