

**AUTOFARM** Sump Extension (Helpful points when Fitting)

This article is to help in fitting the **AUTOFARM** Extended Sump, it is not intended to be definitive.

**List of Parts Included with the Kit**

- 1 off Billet Sump Extension
- 1 off Windage Tray
- 1 off Pick up Pipe Extension Block
- 1 off Modified Porsche Bulkhead
- 2 off 30x3mm O-Rings
- 12 off M6x 50mm Lg Bolts
- 3 off M6 x 47mm Lg Bolts (Red Top)
- 3 off M6 x 20mm Lg Hex Hd Bolts
- 3 off M6 Nyloc Nuts
- 21 off M6 washers
- 1 off Tube Loctite 5900 Flange Sealer

**Tools Required**

- 3/8 Drive 8mm Allan Key socket
- 3/8 Drive 5mm Allan Key socket
- 3/8 Drive E10 Torx socket
- 3/8 Drive 10mm socket
- 3/8 Drive Extension
- 10mm spanner
- 3/8 Ratchet
- 3/8 Torque Wench
- And of course a ramp or Car Lift would be useful !!

Time to complete Job approx. 1 hour including oil fill and test drive.

Note: You ideally need the oil in the engine to be up to running temperature to ease the draining of the oil.

With the vehicle on a lift remove the sump plug using an 8mm allen socket. Leave the oil to drain completely:



Using an E10 Torx, crack each of the 13 sump bolts and then remove all 13 and place in a storage bag or bin. (you will not require these bolts again, only if refitting the standard sump pan without the extension)



You will then have to gently prise the sump pan off the block. Be careful not to damage the mating surfaces:



Once the Sump Pan is removed, you will be faced with:



Wash and dry the sump pan. The existing Bulkhead and bolts are also removed and put to one side for storage:



Wipe out as much oil from the block, to prevent it dripping on you. Then continue by removing all of the old gasket, we used a safe Edged Razor Blade. Again, be careful not to damage the mating surfaces:



Then lightly greasing one of the seals, insert it in the O-ring cut out in the Oil pick up pipe. Use 2 of the standard long bolts and washers in the kit to assemble the pickup extension, flat side down on top of this and then repeat the greasing to the second new seal and insert it in the groove in the extension:



Important: Make sure you use one seal on each side of the pickup extension; **DO NOT** put 2x O-rings face to face.

Bolt the pickup assembly as one to the bottom of the block. Torque the bolts to 6-8ft lbs:



Now fit the Bulkhead to the Windage Tray using the 3 short bolts/6 washers and 3 nyloc nuts. Torque the bolts to 6-8ft lbs. Please note that the new bulkhead supplied in the kit has been substantially modified:



A 'dry-run' assembly is suggested, to familiarize yourself with what goes where.



When you are happy start assembly by putting a small bead of the liquid gasket (Loctite 5900, supplied) on the block, smoothing it out using your finger:



Offer the Windage tray up lining up all the holes. Don't worry this will hold itself in place with the liquid gasket. Meanwhile assemble the extension to the sump pan with another layer of liquid gasket, then add a further layer of liquid gasket to the top of the extension:

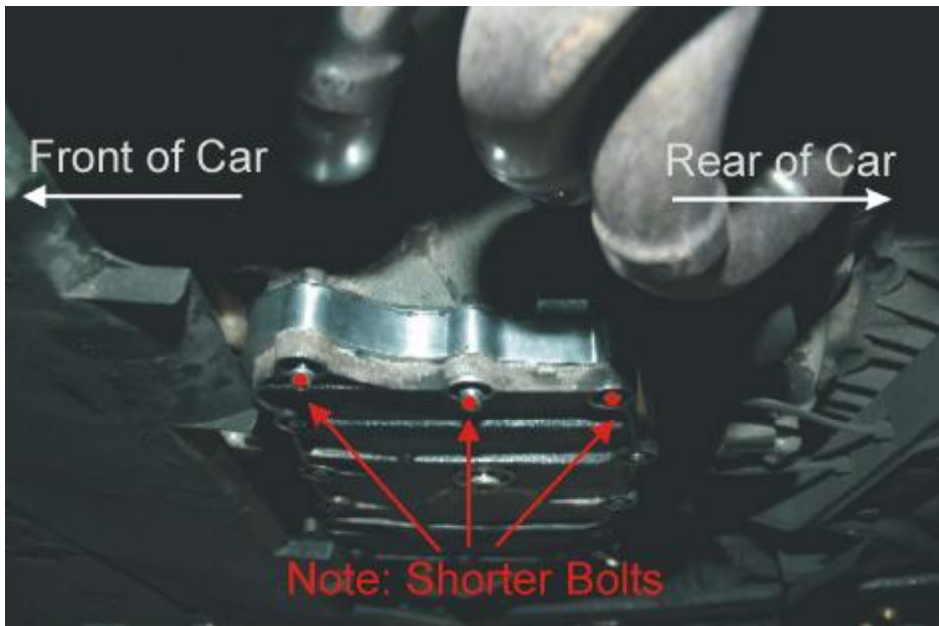


You can then offer the assembled parts up putting all bolts in finger tight:



Finally, Torque all 13 bolts up to 6-8ft lbs

Important: You will have noticed 3 Bolts with red paint on the heads. These Bolts are 3mm shorter than the rest of the bolts. These go on the left hand side of the Assembly, as shown below:



All Bolts are torqued down to 6-8 ft Lbs.

It may be necessary to trim a small amount off the right hand side of the plastic floor, to stop it touching the bottom of the sump pan.

The car can then be lowered.

Fill using the required oil. An extra 1.5 Litres approx. of oil are required; making the Total oil required approx. 10 Litres. Put 9 litres in and then top up as necessary. Always check the oil level on the dash meter before final top-up.

After filling, start and run engine, get up to operating temperature and check that there are no leaks from under the car. Turn the car off and leave for the refuelling time (5 minutes) check oil level and top up as necessary. You're good to go and enjoy.



Important: Please remember that the bottom of the engine is now approx. 25mm closer to the road. Please make allowances in your driving when negotiating speed humps etc.