

BMW 1M Fitting Instructions



Remove 17 x 8mm headed bolts on undertray

Using a flat screwdriver release securing clips on the inlet and outlet pipes on the standard intercooler - There should be 1 clip on each pipe

Remove 2 x T25 Torxs bolts securing intercooler to plastic mounting points.

The standard intercooler should now be able to be wiggled free by pulling it down.

To remove the standard turbo side plastic hose you will need to cut the original hose clip using a hack saw. (New Hose clips supplied)



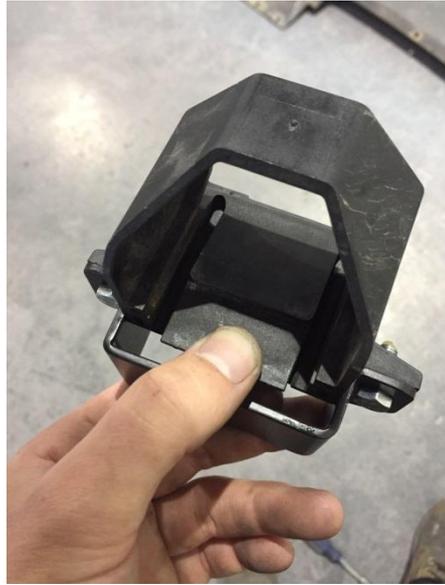
Next attach the silicone reducer to turbo outlet and tighten hose clip. You won't be able to reach this hose clip when the new intercooler is in so insure it's tight.

Fit the new aluminium outlet pipe to existing BMW Hose with the straight end facing down towards where the Intercooler will go.

Important – This next step must be completed 1 side at a time to avoid removing the radiator as well. The standard plastic intercooler mount needs to be removed. To remove these place screwdriver on tab as photo and pull down firmly and they will unclip.



Attach the supplied bracket to the block using the provided nuts and bolts, making sure the bracket is mounted as shown below.



Push the new bracket + plastic block back where it came from. Make sure you hear it click back into place. *it may be beneficial to push radiator up to give the bracket space to click in as this can be tight.

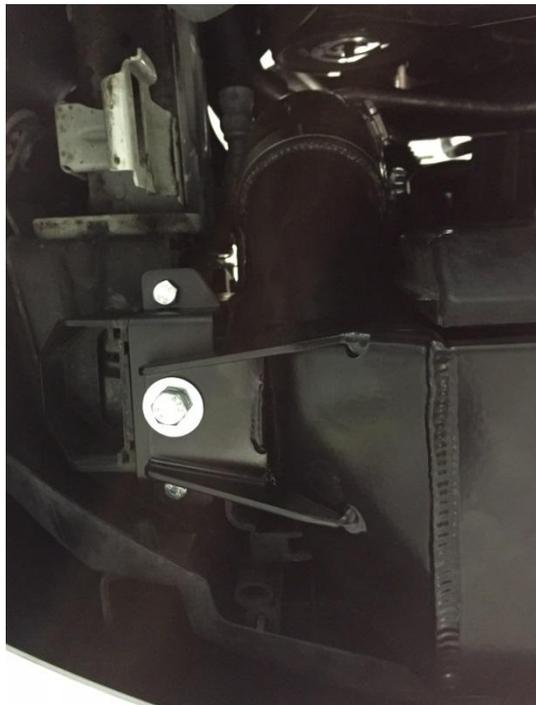


Loosely attach the 45deg silicone hose and 2 x hose clips on to intercooler ready for install.



*Note – Make certain there isn't any dust or debris inside the intercooler before fitting by giving it a shake or blow out with an air line.

Start moving the intercooler up into place making sure the silicone hoses locates on pipe work. Once in place attach the intercooler with the bolts provided.



Insure the plastic fan tabs have located onto Intercooler.

Tighten hose clips

Replace under tray



We all know the 1M has huge tuning potential with its Twin Turbo Straight 6 Engine. One of the best ways to start getting hold of that extra power will be to change the restrictive OEM Intercooler for a larger high quality unit.

Our aim, as always here at Pro Alloy, was to create a very high quality package, but for this particular application we also recognised the need for this to be an easy to fit replacement for the standard intercooler, which also required no cutting of standard parts. All Silicone Hoses, Alloy Brackets, Alloy Elbows, Hose Clips, Nuts and Bolts are all included in the kit, which help make this kit a really quick and easy bolt-on up-grade.

The new unit offers an 18% increase in surface area over the standard intercooler and a massive 35% increase in internal flow area. Impressive figures for a car without a huge amount of spare space behind the front bumper!

The kit is supplied complete with hoses, stainless steel hose clips and mandrel bent alloy link pipe, which remove the need for the standard 'push-fit' type intercooler couplings to be retained, which can be susceptible to popping off in high boost applications. Re-manufacture of the nearside boost pipe has also enabled us to change the angle of the intercooler outlet pipe, which has resulted in the new boost pipe having a slightly straighter path without so many tight turns, which all help to improve internal charge air flow.

The beautifully hand crafted fabricated intercooler end tanks have been designed to offer the smoothest air flow transition possible in the small space available, hence their stylish curved design. We even go to the extremes of carefully TIG welding the end tanks internally and externally, ensuring that the internal detail is as blended and smooth as possible, very strong, and also lightweight. With this all aluminium construction you know there's no chance of boost leaks due to the end tanks failing, which can be an issue with the OEM style intercoolers and their brittle plastic crimped-on end tanks.

We are able to supply this fantastic kit in a stylish Satin Black finish for people preferring the discrete OEM look or in an attractive natural brushed Satin Silver finish if preferred. The Pro Alloy logoed Silicone Hoses come in black as standard.