

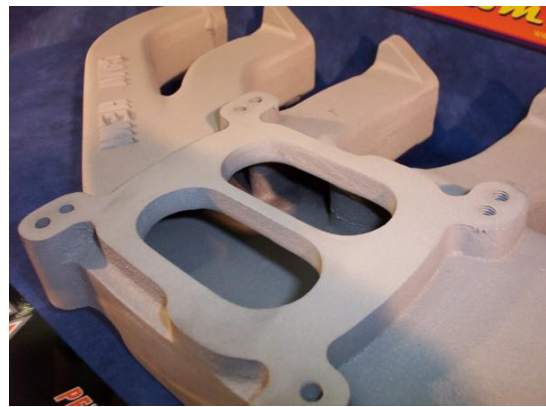


Part# AS0084 AussieSpeed Plenum Pig – suit Valiant Chrysler Hemi straight six 245 & 256 engines.

The plenum pig is a lump of aluminium that inserts directly below the 4 barrel carb on old John Cain and new AussieSpeed inlet manifolds for the Valiant Chrysler six cylinder hemi 245 and 256 engines. The plenum pig is shaped to increase torque and horsepower by improving the air speed strength and flow directly below the carbi. One of the improvements of the newer AussieSpeed Hemi manifolds is that they are smaller in the plenum area than the older John Cain manifolds however both the old and new manifolds can gain improvements by adding the Plenum Pig.



For example a good hot street motor that was tested with the Plenum Pig had a mechanical camshaft of duration of 244 deg inlet & .244 deg exhaust @ .050 tappet lift. Roller Rockers and a 650DP Holley. The plenum pig increased horse power from 277 HP to 304.4 HP & torque from 268 ftlbs to 300.2.ftlbs. Best bang for your buck at about \$100 and a few hours work. This and some carbie re-jetting resulted in an increase of around 20+ horsepower.



The photos above show the Hemi manifold without the Plenum Pig fitted.



Installation

The Following shows you how to fit the Plenum Pig to your Cain or AussieSpeed inlet manifold. Pictures and text are courtesy of AussieSpeed.

The Pig is painted **gold** for the pictures to show how & where it is located in the plenum.

The Plenum Pig insert needs to sit flat on bottom of manifold. Sometimes trimming of Plenum pig or manifold may be required. It is very important that the Manifold and Plenum pig insert are absolutely free of contaminants. These include fuel, oil, sand, filings etc. It is a good idea to use a degreaser or cleaning fluid before installation. It is also recommended that the pig & bolt have a small amount of sealant that wont be affected by fuel on the bottom.

Once installed & the engine started double check for any leaks it is advised that fuel mixtures will need to be checked, Due to better atomization in most cases your carburettor may require leaner jets.



Pictured above is the plenum pig AussieSpeed 4 barrel manifold & bolt kit to install the Plenum pig.



This picture shows the AussieSpeed Hemi performance 4 barrel manifold plenum before any modification has begun.





The black lines show what material needs to be removed for fitment. This can be done in a milling machine, grinder, jigsaw or if time isn't a problem it could be removed with a hacksaw blade.



Pictured here is a Holley four barrel carbie base that is used to show where the pig sits in relation to the carb. Once the pig is located in the plenum a single hole is all that is needed to be drilled. It is recommended that a small bead of sealant that is not affected by fuel is placed around the bottom of the pig & around the bolt hole. {we used Stag jointing compound }



The pig comes drilled & supplied with 2 bolts, 1 short for when the Pig is removed & a longer bolt to hold the Pig in place. It is recommended that the 2 nuts supplied are used as a lock nut on the retaining bolt on the underside of the manifold.



Cain Hemi 4 barrel manifold fitted with AussieSpeed plenum pig insert.



Close up shows the AussieSpeed plenum pig insert to the plenum of a 4 barrel Cain manifold.