

## MGZR 190 Technical Spec for Alternative Engine/Gearbox specifications.

### Alternative VVC Head

To allow the use of a VVC Spec Cylinder head with Piper Cams produced to Trophy spec S1 #3736.

The use of either Hydraulic tappets (cost saving) or the Solid Tappet is allowed but the best option is the solid tappet option currently used in the VHPD heads but would increase the cost.

When ordering cams from Piper cams you will need to confirm at the point of order which tappet you are using Hydraulic or Solid tappets as the grind is slightly different. The use of piper cams uprated Spring caps is also allowed.

A blanking Plate Kit will be required to blank of all the holes left when removing all VVC parts which is also from Piper but can be sourced elsewhere if required.

Machine Skimming of the head gasket face is free but the Small nose feature in the combustion chamber area **MUST** be visible no other machining is needed or allowed.

The use of Vernier Cam Wheels is allowed to return the timing to standard spec (Added Nov 2018)

### Alternative Throttle Bodies Spec

Same as Original Titan 45mm throat size available from B&G Or Elise parts

### Alternative Gearbox spec GZR/0001

It is allowed to use a PG1 Gearbox currently used in the MGZR 160 & 170 classes fitted with a Quaife ATB Diff Part number QDF28K/23DG

### 190 exhaust Spec revised (2016 meeting)

Standard 160/170 Spec Manifold from Head with the allowed machining out of the weld nodules so spec 35mm(+/-1mm) and 40.5 (+/- 1mm) further modifications are not allowed the use of exhaust heat tape/ cloth or other specific head coating is allowed.

Under car Exhaust is free from the 6 bolt flange on the manifold As per pics attached material maybe stainless steel or mild steel.

The down pipe must replicate the design of the original Janspeed version for approximate size and length 740 mm. ref X190-0001

Centre section only spec is external tube diameter may not exceed 60.5 the Cat may be situated at the rear of the centre pipe just before the bend at the fuel tank.

Rear silencer is free, the only spec is the external tube diameter 60.5mm the silencer may be re-packable but must fit in the standard space and use the original hangers.



