

16 JULY 2025

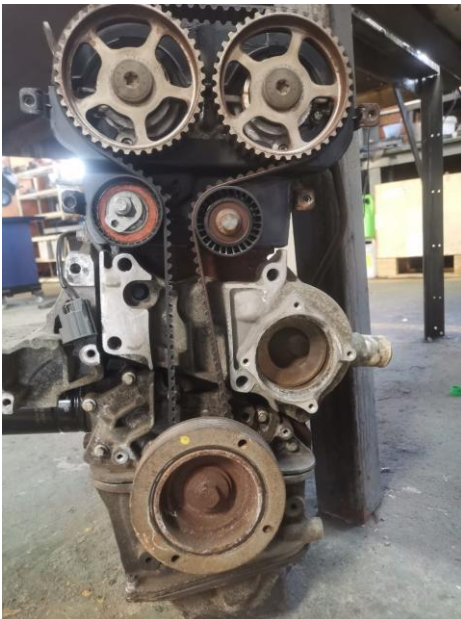
TO: WOMZA TAR OVAL COMPETITORS

## **2l Hotrod – 1800cc Ford Zetec Engine (FZ)**

**WHAT IS NOT MENTIONED ON THESE ENGINE RULES ARE NOT ALLOWED**

### FZ 1 Eligibility

- 1.1 Restricted to 1800 Ford Zetec Engine in standard configuration with only the following modifications permitted.
- 1.2 Engines with a different cam belt configuration is NOT ALLOWED



### **FZ 2 Inlet Manifold and Carburettor**

- 2.1 Restricted to standard inlet manifold available from The Race Shop (Originated from Spedeworth UK).
- 2.2 Restricted to 32/36 DGVA standard Carburettor, (EV carburettors permitted)
  - 2.2.1 Jetting is free
  - 2.2.2 Progressive or simultaneous linkages are permitted
  - 2.2.3 Spray Jets sizes may be modified but must remain (short or long type)

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2.2.4 Progressive chamber may be blanked off

2.2.5 Bowl jet may be closed

2.2.6 26/27mm chokes to remain std

2.2.7 Air filters are free, provided no forced induction, filters may be removed

2.2.7.1 Air filters may be turned 90 degrees

2.2.8 The insulator/adaptor block, with the two gaskets should be no more than 6mm thick

2.2.9 Max auxiliary venturi size 4.5mm

### FZ 3 Fuel

3.1 Restricted to 95 octane Pump unleaded fuel only (no additives.)

3.2 A control fuel supplier can/must be nominated.

3.3 No fuel cooling/coolers allowed

### FZ 4 Engine

4.1 Head may be skimmed ONLY – Rest to remain STD OEM,

4.2 Valve's may be ground to make sure they seat well-ONLY

4.2 Block may be skimmed. Piston MUST be .2mm+ under block (Pistons may not be skimmed)

4.3 Tensioner system (idler pulley) on water pump system is free



\*This is only an example

4.4 Components may be refreshed with OEM listed parts only and must match original

4.5 Camshafts and mechanisms may not be modified

4.6 Vernier cam gears are not permitted (Timing is free provided std pulleys are used)

4.7 Original flywheel MUST be modified to accommodate 2.0L Ford Pinto Clutch and Pressure Plate and the FLYWHEEL may not weigh less than 6kg (excl Clutch and Pressure Plate.), and the FLYWHEEL may not be thinner than 22mm, as per PICTURE BELOW

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- 4.8 Button clutches permitted, 2.0l Pinto Pressure plates MUST be used (not 1600) (Measure pressure plate)
- 4.9 Alternator free but not a must
- 4.10 Water pump impellor my be changed provided bought at The Race Shop
- 4.11 No electric water pumps allowed

#### FZ 5 Exhaust Manifold

- 5.1 Restricted to narrow or wide tunnel-controlled branch available from The Race Shop
- 5.2 Silencers are compulsory.
- 5.3 Silencer configuration is free

#### FZ 6 Ignition Timing

- 6.1 Restricted to original 36-1 1800 flywheel pick up only
- 6.2 Restricted to SA Manufactured Management's only. (*DICTATOR, SPITRONIC, POWER MODS*)
- 6.3 Timing map is free
- 6.4 TPS/MAP not allowed
- 6.5 Rev limit set at **7700rpm** and to be always working. (WOMZA reserves right to adjust such in writing on short notice) (Competitor MUST have PC and cable available to check, if not he will be disqualified)
- 6.6 Restricted to Bosch/aftermarket Opel multi-coil pack



- 6.7 Wasted spark ONLY permitted
- 6.8 Spark plugs are free provided no modification needed and local available
- 6.9 No adjustments may be made from inside cockpit
- 6.10 Plug wires must be from road cars not racing type

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### FZ7 \* Additional Limitations\*

7.1 Shocks restricted to Gaz, Shock tech and Protech single adjustable shocks only.

7.1.1 Shocks buyout set at R 25 000.00

7.2 1660 spec shocks will be allowed but will not form part of the “buyout”

7.3 Engine buy out incl Flywheel, pressure plate and clutch excl Inlet and exhaust manifold set at R 25 000.00

Only commercially available differential housings, steering racks and steering boxes or quick ratio versions thereof as fitted to road going vehicles. Suspension design is free but limited to either commercially available suspension uprights as fitted to vehicles described in item SS 1. above or locally fabricated components. Adjustable spring platforms may be fitted. Competition springs are permitted. The use of rose type joints are permitted. Only South African made Gabriel, Armstrong, Monroe and KYB shock absorbers may be used.

7.4 Womza does have the right to get a std part from The Race Shop to validate authenticity of the part.

### FZ 8 Gearbox

8.1 Only original std ford Pinto gearboxes may be used that bolt straight on the Ztech engine

8.2 No special gears or straight cut gears is allowed

8.3 The gearbox may ONLY be modified on the bellhousing to fit the ZTECH starter

8.4 Quick shift gear levers are permitted

### FZ 9 Camshafts

9.1 Intake and exhaust cams may not be interchanged

9.2 Intake cam base circle must measure 36.07mm +/- .5mm tolerance

9.3 Intake cam heel-toe must measure 45.15mm +/- .5mm tolerance

9.4 Exhaust cam base circle must measure 36.07mm +/- .5mm tolerance

9.5 Exhaust cam heel-toe must measure 44.00mm +/- .5mm tolerance