

Dunlop MSA British Touring Car Championship

2011+ NGTC Outline Specification

Engine:

- 300+bhp 2 litre turbo-charged direct-injection engine with 'fly by wire' throttle control.
- Engine can be sourced from a manufacturers broad 'family' range, including subsidiary marques under their effective control.
- Over-boost function and increased power output from 2013.
- Low cost to develop, build, buy and maintain – either by teams and/or race engine-builders developing their own, or through lease/purchase of the TOCA-BTCC engine.

Drivetrain:

- Xtrac 6 speed sequential-shift gearbox.
- AP Racing carbon clutch.
- Drive-train layout (i.e. front or rear wheel drive) as per base vehicle.

Suspension:

- Full front sub-frame incorporating suspension, brakes, transmission and engine location that attaches to specified roll cage locations. Multi-adjustable double wishbone suspension with coil-over dampers.
- Rear sub-frame that attaches to specified roll cage locations. Multi-adjustable double wishbone suspension with coil-over dampers.

Bodyshell:

- 2,3,4 or 5 door of a minimum 4.4m length. (2 or 3 door cars must share the same basic body profile as the 4/5 door model).
- Equalised width of 1875mm
- Specified front aerodynamic device incorporating flat floor, apertures for radiator, brake cooling ducts, intercooler and side exits.
- Specified rear wing profile
- Stylised front & rear wheel-arch extensions.
- Increased driver protection
- Side exhaust permitted
- 80 litre fuel tank
- Base vehicle must be freely on sale in the UK through the manufacturers normal dealer network

- Base vehicle weights, for front and rear-wheel drive, to be determined.

Wheels/Tyres:

- Specified 18" centre-lock wheel
- Dunlop: 245 x 650 x R18

Brakes:

- AP Racing specified package
- AP Racing specified pedal-box

Electronics:

- Cosworth Electronics specified package incorporating ECU, dash, data-logging and scrutineering logger.
- Data channels limited to 16.
- Common power management box and switch panels
- Common wiring loom design

Project development:

- Full project design & development by GPR Motorsport
- First car build to be completed and tested prior to the final 2010 event, where it will also take part in the official BTCC practice sessions at Brands Hatch.

Target Price:

Complete car, less engine: £100,000*

Engine: £25,000

* 5-10% price-shift possible, depending on final components used by each team

Introduction:

Eligible from 2011.

Performance parity will be maintained with current S2000 cars until 2013, after which time the performance level of the NGTC car will be increased.

Based on the established dimensions and specifications, below is a visual rendition of a car designed to the BTCC-NGTC regulations.

