



COMPETITION SPECIFICATION SHEET 7/1/2005

Manufacturer: SUBARU
Model: IMPREZA WRX
Applicable Years: 2002-2005

This specification sheet was developed by the U.S. Touring Car Championship and will be used both by the series technical administrator to establish technical compliance and by applicable series administrators to maintain performance parity and equal competition amongst the USTCC competitors. In addition to this CSS the technical administrator may also use, but is not limited to also using the following items to check compliance: Electronic Parts Catalogs, Technical Information Systems, and the FIA/ASN Homologation forms, or equivalent documentation.

The specifications within this form include all modifications that have been approved by USTCC specifically for the vehicle model(s) and year(s) listed on this page. The parts, specifications and assemblies used shall be those for the unmodified stock vehicle, those permitted within the NASA regulations and or within this CSS. If the stock parts, specifications, and/or assemblies exceed the performance potential of those approved within this form, then the parts, specifications, and/or assemblies used shall meet those listed within this form.

The Competition Specification Sheet is a permissive document. The exact configuration of any modification allowed within this CSS is subject to the approval of the technical administrator.

1. GENERAL VEHICLE DESCRIPTION

| | |
|--------------------------------------|--------------|
| Body Type (sedan, coupe, hatchback): | Sedan |
| Engine location (front, mid, rear): | Front |
| Drive Type (front, rear, AWD): | AWD |
| Wheelbase (cm) | 252.5 |
| Induction Type: | Turbocharged |
| Minimum Weight: | 3000lbs |

2. ENGINE

| | |
|-----------------------------------|------------------------|
| OEM Engine Code Designation: | EJ205 |
| Number of Cylinders: | 4 |
| Maximum Displacement (cc): | 1994 |
| Rev limit req'd?: | no |
| Compression ratio: | 8.0:1 |
| Piston Stroke (mm): | 75.0 |
| Restrictors Req'd?: | no / xxmm |
| Cylinder Block Part # (stock): | 11008AA270 |
| Cylinder Block Bore (mm): | 92.0 |
| Cylinder Head Part # (stock): | 11039AB361, 11063AA841 |
| Intake Valve Head Diameter (mm): | 36.0 |
| Exhaust Valve Head Diameter (mm): | 32.0 |

| | |
|--|--|
| Intake Port Dimensions at Manifold Face: | Height: 36.0mm Width: 60.0mm |
| Intake Port Work Allowed? (Yes/No) | no |
| Exhaust Port Dimensions at Manifold Face: | Height: 32.0mm Width: 60.0mm |
| Exhaust Port Work Allowed? (Yes/No) | no |
| Connecting Rod Length (centerlines, mm): | 130.5 |
| Reciprocating Assembly (grams): | xxx |
| Aftermarket Rods Allowed?: | no |
| Aftermarket Pistons Allowed?: | no |
| Camshaft Rocker Arm Ratio: | 1.0:1 |
| Type of Cam Follower (roller, solid, etc.) | Direct |
| Camshaft Max Lift at Cam Lobe: | 0.xxx |
| Crankshaft Part Number (stock): | xxx |
| Crankshaft Mass (kg): | 9.3 |
| Flywheel Mass (kg): | 11.8 / open |
| Ring Gear Diameter (mm): | 317.5 |
| Intake Manifold Part # (stock): | 14001AB255 |
| Int. Manifold Port Size @ Head Face: | Height: 36.0mm Width: 60.0mm (stock) |
| Allow Port Match to Head? | no |
| Throttle Body Bore Diameter (mm): | 60mm |
| # of Throttle Bodies: | 1 |
| Intermediate Port Matching Allowed?: | N/A |
| Turbocharger Manufacturer and Model: | Subaru (IHI), Part #114412AA360 |
| Alternate Turbocharger Allowed?: | No |
| Number of Turbo Compressors: | 1 |
| Compressor Inlet Diameter (mm): | 40.5 |
| Maximum Boost Pressure (psi): | 14.7psi (allowed tolerance of +0.30 psi) |
| Turbo Intercooler Part # (stock): | 21820AA186 |
| Turbo Intercooler Dimensions (mm): | 420 x 178 (top mount) |
| Engine Miscellaneous: | |

3. DRIVETRAIN

| | |
|--------------------------------------|-------------|
| Transmission Part # (stock) | 32000AG970 |
| Number of Forward Speeds: | 5 |
| Alternate Transmission Allowed?: | no |
| Alternate Transmission Part #: | n/a |
| Gear Ratios (stock / allowed): | |
| 1 st : | 3.454 |
| 2 nd : | 1.947 |
| 3 rd : | 1.366 |
| 4 th : | 0.972 |
| 5 th : | 0.738 |
| 6 th : | N/A |
| Final Drive Ratio (stock / allowed): | 3.90 / open |
| Drivetrain Miscellaneous: | |

4. SUSPENSION, CHASSIS, BODY

| | |
|---|------------|
| Front Suspension Type: | MacPherson |
| Rear Suspension Type: | MacPherson |
| Suspension, Chassis, Body Miscellaneous: | |
| Front Control Arms: 20202FE300, 20202FE310 permitted. | |