This draft of the listed vehicle’s VTS is posted with the specifications that we currently have for the vehicle. If a specification is highlighted in green, we are waiting to acquire that information from the manufacturer, or from certified documentation provided by the team(s). If a specification is highlighted in yellow, that specification is under review and may not be set until all blanks in the VTS sheet are completed. The specifications that are listed, and not highlighted, are considered to be a work in progress and may be changed without being posted by technical bulletin. Therefore, competitors may use the specifications listed to begin preparing their vehicles. The missing specifications will be added as they are received.

When a vehicle is in this draft form, it will be permitted to compete in any World Challenge competitions. Once the World Challenge Technical Staff has determined that this specific vehicle has demonstrated reasonable performance in relationship to other cars competing in the series and all specifications have been obtained, then this VTS sheet will be removed from DRAFT status and transformed into a final VTS. From that time forward, all changes to the VTS will be subject to VTS change request approvals.

Competitors needing a specification that is not listed should contact the World Challenge Technical Department to find out when that specification will be available and should not make assumptions as to what these specs might be unless otherwise directed to do so by the World Challenge Technical Department.

SCCA Pro Technical Department
E-Mail: tech@sccapro.com
Phone: (785) 357-7223
Fax: (785) 233-7223
Packages: 6700 SW Topeka Blvd.
Building 300
Topeka, KS 66619
Vehicle Technical Specification

Vehicle:  Audi TTRS 2012  
Class:  GTS  

Vehicle Manufacturer:  Audi  
Year and Model:  2012 TTRS  

This specifications form was developed by SCCA Pro Racing and will be used by the TECHNICAL MANAGER to establish technical compliance for vehicles competing in the SCCA PRO RACING WORLD CHALLENGE series. The TECHNICAL MANAGER can also use, but is not limited to also using the following items to check compliance: Electronic Parts Catalog (EPC), Technical Information System (TIS), and the FIA/ASN Homologation forms (or equivalent documentation).

The specifications within this form include all modifications that have been approved by SCCA Pro Racing 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 Pro Racing Regulations (PRR) and/or within this VTS. If the stock parts, specifications and/or assemblies exceed the performance potential of those approved with this form, then the parts, specifications and/or assemblies used shall meet those listed within this form.

Refer to SCCA PRR and Appendix A. for rules regarding all vehicle specifications not specifically listed within the VTS.

The most current rules can be downloaded from the official website: www.world-challenge.com and look under the “Competitors” section for the latest Technical Bulletins, Participant Bulletins, and Appendix A.

The Vehicle Technical Specification sheet is a permissive document. The exact configuration of any modification allowed within this VTS is subject to the approval of the TECHNICAL MANAGER.
1. General Vehicle Description

1.A. Body Type: Coupe 1.B. Engine Location: front
1.C. Drive Wheels: All wheel drive 1.D. Wheelbase: 97.2in (2468mm)
1.E. Induction Type: forced 1.F. Competition Weight: See Appendix A
1.G. Weight Distribution: 60/40

2. Engine

2.A.4. Rev Limit: See Appendix A 2.A.7. Maximum Piston Stroke: 3.65in (92.8mm)
2.A.8.a. Percentage Restriction: 2.A.8.b. Hole Diameter: 

2.B. Cylinder Block

2.B.1. Part Number: 07K 103 011K VW/Audi 2.B.3. Maximum Cylinder Bore: 3.25in (82.5mm)
2.B.2. Cylinder Block Material: Cast Iron

2.C. Cylinder Head

2.C.1. Part Number: 07K 103 063K VW/Audi 2.C.2. Cylinder Head Material: Aluminum

2.D. Valve System


2.E. Intake Port Dimensions

2.E.1. At Intake Manifold Face 2.E.1.a. Height: 30 mm 2.E.1.b. Width: 50 mm
2.E.2. Intake Port Work Allowed: No 2.E.2.a. Depth From Face:

2.F. Exhaust Port Dimensions

2.F.1. At Exhaust Manifold Face 2.F.1.a. Height: 33 mm dia 2.F.1.b. Width: --
2.F.2. Exhaust Port Work Allowed: No 2.F.2.a. Depth From Face:

2.G. Piston and Connecting Rod

2.G.2.b. Minimum: Piston pin .124 kg

2.H. Camshaft

2.H.1. Part Number: 07K 133 201AD upper 2.H.2. SCCA Profile Number:
or 07K 133 201AE lower
2.H.5. Type of Cam Follower: 

2.I. Crankshaft

Date Issued: 12/14/11 Revision Number: 7 Revision Date: 7/24/2015 Page: 3 of 8
2.1.1. Part Number: 07K10510P
2.1.2. Stock Mass: 16,599 kg 2.1.3. Minimum Mass:  

2.2. Stock Ring Gear Diameter: 240 mm 2.2.2. Flywheel Weight: 29lbs

2.3. Turbocharger Manufacturer and Model: Borgwarner 07K 145 701B
2.4. Supercharger Manufacturer and Model:  

2.5. Compressor Inlet Diameter: 2.5.4. Number of Compressors: 1
2.6. Compressor Pinwheel Inlet OD: 2.6.4. Turbine Pinwheel Inlet OD: 2.0"

2.7. Maximum Boost Pressure:  
2.8. Number of Intercoolers: 1 2.8.8. Intercooler Locations: Front
2.9. Intercooler Dimensions: 560 x 220 x 130
2.10. Permitted Modifications:

2.11. Turbo Compressor Map:

2.12. Intake Manifold
2.12.1. Part Number: 07K133201AD. Upper 07K133201AE Lower
2.12.2. Stock Port at Cylinder Head Face: 2.12.2.a. 2.12.2.b. Width:
2.12.4. Throttle Body Bore Dia.: 80mm 2.12.4.b. Throttle Body Part Number: 07D 133 062 079133062G
2.12.5. Number of Throttle Bodies: 1 2.12.6. Butterflies per Throttle Body: 1
2.12.9. Intermediate Port Matching Allowed: 2.12.9.b. Depth from Face:

2.13. Required Engine Seal Locations
2.13.1. Valve Cover Seal #1:  
2.13.2. Oil Pan Seal #2:  

2.14. Engine Miscellaneous:

Forge aftermarket intercooler allowed with the following dimensions 560x130x225
Allow LOBA 500 Audi sport turbo. Exhaust wheel 2.120". Intake wheel 2.2"
Forge FMARSDV Intake elbow and diverter Valve
Audi sport Turbo #ASCR/13/TT01/01

3. Drivetrain
3.1. Transmission
3.1.1. Number of Forward Speeds: 6 3.1.2. Manufacturer: Audi
3.1.3. Gear Ratios: 3.1.3.a. 1st: 3.571 3.1.3.b. 2nd: 2.158 3.1.3.c. 3rd: 1.895
3.1.3.d. 4th: 1.429 3.1.3.e. 5th: 1.156 3.1.3.f. 6th: .971
3.1.4. Gear Shift Pattern: 3.1.5. Gear Engagement: synchromesh

3.2. All Wheel Drive System
3.B.1. Transfer Case Manufacturer and Model
   No.: Audi
3.B.2. Center Differential Type and Manufacturer: Haldex electronic multi plate coupling
3.C. Final Drive
   3.C.1. Axle Ratio: 2.91
3.D. Drivetrain Miscellaneous
   Allow 380mm brake rotors and Dual master cylinder in stock position

4. Suspension
   4.B. Suspension Miscellaneous
      Allow alternate RS Werks rear suspension pieces for camber, castor and toe adjustment

5. Chassis
   5.A. See Technical Department for information
   5.B. Chassis Miscellaneous
      Allow rear spring to be located on the rear shock

6. Body
   6.A.1. Stock Coefficient of Drag: 0.32 6.A.2. Total Frontal Area:
   6.C. Stock Body Materials:
   6.D. Maximum Body Width at Front Wheelhouse: 72.5"
   6.E. Maximum Body Width at Rear Wheelhouse:
   6.F. Permitted Rear Wing Design: 62" APR wing
6.F. Body Miscellaneous:
   Exhaust allowed to exit rocker panel and modify floor board
### Camshaft Profile

**SCCA Profile Number:**

<table>
<thead>
<tr>
<th>Cam Lift (in)</th>
<th>0.010</th>
<th>0.020</th>
<th>0.030</th>
<th>0.040</th>
<th>0.050</th>
<th>0.060</th>
<th>0.070</th>
<th>0.080</th>
<th>0.090</th>
<th>0.100</th>
<th>0.150</th>
<th>0.200</th>
<th>0.250</th>
<th>0.300</th>
<th>0.350</th>
<th>0.400</th>
<th>0.450</th>
<th>0.500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake Lobe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhaust Lobe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Vehicle Technical Specification

Vehicle: Audi TTRS 2012  
Class: GTS

- Forge Intercooler
- Front Brake Rotor and Caliper
- Rear Brake Rotor and Caliper
- RS Werks Rear Toe Link
- RS Werks Rear Camber Arm

Date Issued: 12/14/11  
Revision Number: 7  
Revision Date: 7/24/2015  
Page: 8 of 8