



## COMPETITION SPECIFICATION SHEET 7/1/2005

Manufacturer: Mazda  
Model: 6s  
Applicable Years: 2003-2005

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):	Front
Wheelbase (cm)	105.3
Induction Type:	Naturally Aspirated
Minimum Weight:	2780 lbs

### 2. ENGINE

OEM Engine Code Designation:	xxx
Number of Cylinders:	6
Maximum Displacement (cc):	xxxx
Rev limit req'd?:	no
Compression ratio:	10:1
Piston Stroke (mm):	xxx
Restrictors Req'd?:	no
Cylinder Block Part # (stock):	xxx
Cylinder Block Bore (mm):	xx.x
Cylinder Head Part # (stock):	xxx
Intake Valve Head Diameter (mm):	xx.x

Exhaust Valve Head Diameter (mm):	xx.x
Intake Port Dimensions at Manifold Face:	Height: xx.xmm Width: xx.xmm
Intake Port Work Allowed? (Yes/No)	no
Exhaust Port Dimensions at Manifold Face:	Height: xx.xmm Width: xx.xmm
Connecting Rod Length (centerlines, mm):	xxx.x / xxx.x stock / allowed
Reciprocating Assembly (grams):	xxx / xxx stock / allowed
Aftermarket Rods Allowed?:	no
Aftermarket Pistons Allowed?:	no
Camshaft Rocker Arm Ratio:	x.x:1
Type of Cam Follower (roller, solid, etc.)	xxx
Camshaft Max Lift at Cam Lobe:	0.xxx
Crankshaft Part Number (stock):	xxx
Crankshaft Mass (kg):	xx.x
Flywheel Mass (kg):	xx.x / open
Ring Gear Diameter (mm):	xxx
Intake Manifold Part # (stock):	xxx
Int. Manifold Port Size @ Head Face:	Height: xx.xmm Width: xx.xmm (stock)
Allow Port Match to Head?	no
Throttle Body Bore Diameter (mm):	xx / open
# of Throttle Bodies:	1
Intermediate Port Matching Allowed?:	yes, no, N/A
Turbocharger Manufacturer and Model:	na
Alternate Turbocharger Allowed?:	na
Number of Turbo Compressors:	na
Compressor Inlet Diameter (mm):	na
Maximum Boost Pressure (psi):	na
Turbo Intercooler Part # (stock):	na
Turbo Intercooler Dimensions (mm):	na
Engine Miscellaneous:	

### **3. DRIVETRAIN**

Transmission Part # (stock)	xxx
Number of Forward Speeds:	5
Alternate Transmission Allowed?:	no
Alternate Transmission Part #:	na
Gear Ratios (stock / allowed):	
1 <sup>st</sup> :	3.153
2 <sup>nd</sup> :	1.842
3 <sup>rd</sup> :	1.258
4 <sup>th</sup> :	0.947
5 <sup>th</sup> :	0.733
6 <sup>th</sup> :	na
Final Drive Ratio (stock / allowed):	4.133 / open
Drivetrain Miscellaneous:	

### **4. SUSPENSION, CHASSIS, BODY**

Front Suspension Type:	
Rear Suspension Type:	
Suspension, Chassis, Body Miscellaneous:	