



NASA Super Touring (STR1 & STR2) Car Classification Form—2010 (v4.1)

Owner's Name _____ Date _____ Region _____

Car Number _____ Car Color _____ e-mail _____

List all Team Drivers--leave blank if the owner is the only driver and circle here: **owner-driver**

Vehicle: Year _____ Make _____ Model _____ Special Edition? _____

Multiple ECU Maps? Describe switching method: _____

AWD using Mustang Dyno? Mustang Dyno max awhp _____ x 1.1 = _____ (enter below)

Min. Competition Wt. (w/driver) _____ lbs. Maximum Chassis Dyno hp _____ whp

Adjusted Weight/Power Ratio (use worksheet below to calculate) _____

Super Touring R1 (STR1) = "adjusted" wt/hp ratio equal to, or greater than, **5.50:1**

Super Touring R2 (STR2) = "adjusted" wt/hp ratio equal to, or greater than, **8.70:1**

Super Touring Competition Class STR _____

Calculation of Adjusted weight/power ratio (worksheet):

Unadjusted wt/power ratio = Minimum Comp. Wt. divided by maximum Dyno hp = _____

If: 4-door Sedan or 5-door Wagon, add 0.4 = _____

If: Dog-ring/Straight-cut gears (non-synchromesh transmission), subtract 0.2 = _____

If: Sequential/Tiptronic-like/paddle shift/semi-automatic, subtract 0.2 = _____

If: AWD, subtract 0.5 = _____

If: FWD, add 1.0 = _____

If: Non-DOT approved tires, subtract 0.75 (VRL & GAC Hoosiers see App. A) = _____

If: Tire size 10.5" (267mm) to 9.6" (244mm) if non-DOT approved, add 0.4 = _____

If: Tire size 9.5" (241mm) or smaller if non-DOT approved, add 0.8 = _____

If: Tire size 275 to 250 if DOT approved, add 0.4 = _____

If: Tire size 245 or smaller if DOT approved, add 0.8 = _____

If the Minimum Competition Weight is greater than 3299 lbs, find the weight on the table below, and ADD the number listed to the wt/power ratio = _____

3300-3349 lbs +0.05	3550-3599 lbs +0.35	3800-3849 lbs +0.65	4050-4099 lbs +0.9
3350-3399 lbs +0.1	3600-3649 lbs +0.4	3850-3899 lbs +0.7	4100-4149 lbs +0.95
3400-3449 lbs +0.15	3650-3699 lbs +0.45	3900-3949 lbs +0.75	4150-4199 lbs +1.0
3450-3499 lbs +0.2	3700-3749 lbs +0.55	3950-3999 lbs +0.8	4200-4249 lbs +1.05
3500-3549 lbs +0.3	3750-3799 lbs +0.6	4000-4049 lbs +0.85	>4249 lbs +1.1

If the Minimum Competition Weight is less than 3151 lbs, find the weight on the table below, and SUBTRACT the number listed from the wt/power ratio = _____

3150-3051 lbs 0.05	2650-2551 lbs 0.3	2150-2051 lbs 0.55	1650-1551 lbs 0.8
3050-2951 lbs 0.1	2550-2451 lbs 0.35	2050-1951 lbs 0.6	1550-1451 lbs 0.85
2950-2851 lbs 0.15	2450-2351 lbs 0.4	1950-1851 lbs 0.65	< 1451 lbs 0.9
2850-2751 lbs 0.2	2350-2251 lbs 0.45	1850-1751 lbs 0.7	
2750-2651 lbs 0.25	2250-2151 lbs 0.5	1750-1651 lbs 0.75	

Note: All vehicle weights will be measured to the tenth of a pound (xxxx.x), then rounded off to the nearest pound for all calculations. Any weight ending in “.5” (xxxx.5x) will be rounded up or down to the benefit of the competitor.

Enter the calculated adjusted weight/power ratio in the section above, and enter your competition Super Touring R Class.

VRL and GAC Hoosier Tires:

Viper Racing League and Grand Am Cup Hoosier Spec. Tires are exempt from the -0.75 modification factor for Non-DOT approved tires.

Each year, the owner/driver must submit a completed NASA Super Touring R Car Classification Form and a certified dynamometer (Dyno) report to the ST Director prior to the car’s first competition in order to compete in STR1 and STR2.

FWD and RWD vehicles must use a Dynojet model Dynamometer, and AWD vehicles must use either a Dynojet, Mustang, Dyno Dynamics, or Dynapack for testing. However, AWD vehicles must be compliant on any of the four Dyno models listed above that NASA Officials may choose for post-competition inspection.

From the start of qualifying through the end of post-race inspection, vehicles may not have any adjustments or modifications made to systems that could alter chassis dynamometer readings by changing horsepower levels (without the direct approval of the Race Director.)