



NASA Super Touring (STR1 & STR2) Car Classification Form—2012 (v6.1)

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 or Dyno Dynamics 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),
Sequential/paddle shift/semi-automatic, subtract 0.2 = _____
(no assessment for automatic transmission utilizing a torque converter)

If: AWD, subtract 0.5 = _____

If: FWD, add 1.0 = _____

If: Non-DOT approved tires, subtract 0.75 (VRL Hoosiers & GA Continentals 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	>4149 lbs +1.0
3450-3499 lbs +0.2	3700-3749 lbs +0.55	3950-3999 lbs +0.8	
3500-3549 lbs +0.3	3750-3799 lbs +0.6	4000-4049 lbs +0.85	

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	
3050-2951 lbs 0.1	2550-2451 lbs 0.35	2050-1951 lbs 0.6	
2950-2851 lbs 0.15	2450-2351 lbs 0.4	1950-1851 lbs 0.65	
2850-2751 lbs 0.2	2350-2251 lbs 0.45	< 1851 lbs 2.70	
2750-2651 lbs 0.25	2250-2151 lbs 0.5		

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.

****Allison Legacy's, Baby Grands, Legends, Pro Challenge, Thunder Roadsters:**

When competing in STR, any of the above vehicles with a Competition weight lighter than 1851 lbs (with driver) will use the following schedule for assessing Weight Modification Factors, instead of using the table in Section 7.4.4:

Equal to or less than 1850 lbs: -0.7

Equal to or less than 1750 lbs: -0.75

Equal to or less than 1650 lbs: -0.8

Equal to or less than 1550 lbs: -0.85

Equal to or less than 1450 lbs: -0.9

(note: this is the same schedule as in Section 7.4.2 for ST cars)

VRL Hoosiers and GAC Continental Tires:

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

Each season, 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.)

Any vehicle that is approved for ST1 or ST2 may also compete in the corresponding STR1 or STR2 class, using a copy of its ST1 or ST2 Car Classification Form instead of using this Form. The owner/driver must **handwrite STR1 or STR2 on the top of the Form. Vehicles assigned a specific additional modification factor in ST1 or ST2 must assess those factors unless the owner/driver chooses to use this STR Car Classification Form (and its different weight Modification Factor tables) .**