

HSR Street Stock Category Rules & Classes ~ 2016

(1/4/16)

The HSR Street Stock Category is for cars that competed in various recognized racing series' that used limited prep regulations. These series include but are not limited to:

- IMSA Firestone Firehawk Series (later known as Speedvision Cup)
- IMSA Bridgestone Supercar Championship
- Canadian Endurance Road Racing Championship
- Canadian National Michelin Enduro Series
- Motorola Cup North American Street Stock Championship
- Grand-Am Cup (street stock championship)
- LuK Clutch Challenge
- Toyo Tire Series
- SCCA Escort Endurance Challenge
- SCCA Improved Touring and Showroom Stock Categories

The Street Stock Category classes will normally run in either Gr2, 3 or 5 as appropriate. However, HSR anticipates the possibility of dedicated races for these cars at certain future events.

Purpose: To perpetuate the use and enjoyment of the cars that raced in these categories or series.

Eligibility: HSR will determine and publish a list of cars deemed appropriate for this series. This list is not intended to be exclusive. If your car is not listed, do not assume it is not eligible.

Classes: (SSA) Super Sport, (SSB) Grand Sport, (SSC) Sport, (SSD) Touring. HSR will determine what cars will be in each class, based on observed performance and other criteria. These classes may be adjusted from time to time, if deemed appropriate.

Requirements: All cars should be survivors of one of these series or accurate replicas of such cars. It is highly encourage that these cars have period decorations and period sponsorship liveries. Cars must have satisfactory safety equipment, as required in their series.

Cars: Must be as delivered by the manufacturer with the general exceptions noted below. Certain models may have specific restrictions or allowances that will be published as an additional list called Appendix A.

Authorized Modifications: Entrants may prepare to the published regulations of a recognized series if in conflict with these listed modifications. It will be the responsibility of the entrant to supply a copy of those regulations. HSR reserves the right to deny use of any device if deemed to be an unfair advantage.

- a. **Engines** - May be bored to a maximum of .060" oversize, using factory replacement pistons or exact replicas. Cylinder heads may be only shaved within factory specs (.025" tolerance). Plastic timing gears may be replaced with metal. Balancing and blueprinting is permitted. Note: After market cams, heads, high compression pistons are not permitted.
- b. **Induction** - Fuel injection or carburetor may be replaced with any carburetor or throttle body that can be mounted on the standard intake manifold without modification. An intermediate adaptor plate may be used. No porting of the manifold is permitted beyond matching within 1" of the flange.
- c. **Ignition** - Any ignition system that uses the distributor for spark timing and distribution is permitted as long as it can be mounted in the unmodified engine block.
- d. **Emission control devices** - May be removed. If not removed, these devices may not be altered.
- e. **Exhaust** - Any exhaust header and exhaust system may be used.
- f. **Oil system** - Oil pans may be replaced or modified. An Accusump may be fitted. Dry sumps are not permitted unless standard.
- g. **Cooling system** - Any radiator may be used that can be bolted into the stock mounts. Oil coolers may be added. Cooling fans may be removed or replaced.
- h. **Transmission** - Must be stock or factory optional.
- i. **Clutch** - Must be of stock diameter and bolt directly to unmodified stock flywheel. Balancing is permitted.
- j. **Differential or final drive** - Any gear ratio that will fit the stock unit without modification. Any limited-slip or locked differential is permitted. Auxiliary cooling is permitted.
- k. **Reciprocating parts** - May not be lightened beyond normal balancing.

- l. Bodywork** - All panels must be as delivered. Fender lips may be rolled for tire clearance only. Stock bumpers must remain in place. Plastic fender liners may be removed.
- m. Windows** - Stock window glass must be retained, front and rear. Side window glass may be removed or replaced with plastic. The winding mechanism may be removed. Window clips and rear straps are recommended.
- n. Ride height** - Minimum ride height is five (5) inches measured at the lowest point of the rocker panel, not including welded seams or fasteners.
- o. Springs** - May be of any origin provided that they are the same number, material and type, and can be mounted in the standard location, using the original means of attachment. Shackles and spacers may be used to adjust ride height.
- p. Brakes** - Friction material is free. Rotors or drums must be no larger in diameter than the stock parts. Alternate calipers that fit the standard mounting may be used. Brake lines may be replaced, rerouted or the circuitry revised. A proportioning valve may be used. Dust shields may be removed or modified. Air ducts may be fitted.
- q. Shock absorbers** - May be replaced with others of similar design that fit the stock mountings. Remote reservoir shocks are permitted.
- r. Suspension control** - Sway bars may be added or deleted. Axle control devices are permitted. None of these devices may extend into the passenger or luggage compartments. Cars with MacPherson struts may adjust camber with eccentric bushings or by use of slotted plates. Other forms of suspension may use slotted holes and eccentric bushings as needed. All cars may add one (1) stay rod between the upper front shock towers. Rubber bump stops may be added or removed.
- s. Roll cage** - No bars may penetrate the front firewall. Rear braces may be mounted at the rear shock mounts or suspension pickup points. Such braces may pass through the rear bulkhead provided the holes are sealed tightly around the braces. A dash bar and door bars are permitted.
- t. Wheels** - Must be of the correct diameter and width.
- u. Tires** - Any DOT-approved tire is permitted. Racing, recapped or re-grooved tires are not allowed. Tire size is unrestricted but they must fit the approved wheels and body limitations.
- v. Interior** - Stock dash must remain in place. Gauges may be added. Door panels may be removed to facilitate installation of sidebars. All sharp metal edges should be covered with a protective material. It is permitted to skin openings with aluminum. Rear seat may be removed. Steering wheel may be replaced. Trunk compartment may be modified to install a fuel cell.
- w. Lights** - Headlights may be removed or taped.
- x. Spoilers and rear wings** - Only stock front spoilers and rear wings are permitted. Optional devices can only be used if listed in Appendix A.
- y.** Air conditioning, heaters and radios may be removed.
- z. Weights** - Listed weights are provisional at this date and may be adjusted from time to time as appropriate.

Contact: Jack Woehrle - HSR Technical Director: jackwoehrle@aol.com - 803-463-5388/386-418-0045

HSR Street Stock Classes

(these classes are not absolute; other appropriate cars will be classified upon application)

<i>Class</i>	<i>Years</i>	<i>Disp.</i>	<i>Weight</i>
<i>(SSAA)</i> Cars modified beyond Series limits, but deemed appropriate.			
<i>(SSA) Super Sport</i>			
Audi A4 turbo	00	2.7L-turbo	3050
BMW M3/E36	92-95/95-99	3.0/3.2L	3000/3100
BMW M3/E46	00-04	3.2L	3100
BMW Z4M		3.0L	3200
Cadillac CTS-V	04		3400/driver
Chevrolet Corvette C4	84-96	5.7L	3400/driver
Corvette Challenge, World Challenge C4, R7F, R9G	88-90	5.7L	3400/driver
Chevrolet Corvette C5			
Chevrolet Camaro/Pontiac Firebird	82-92	5.0L	3300/driver
Chevrolet Camaro/Pontiac Firebird		5.7L	3500/driver
Dodge Stealth			
Ford Mustang, Cobra, R (Gen 4)	94-04	5.0/5.7 L	3300/3500/driver
Ford Mustang, GT (Gen 5)	05-14	4.6/5.0/5.4L	3400/3600/3800/driver
Ford Thunderbird			
Lotus Espirit X180R			
Mazda RX7 turbo (13B)	86-02	1.3L turbo	2800
Nissan 300ZX (turbo)			

Pontiac GTO	04-05	5.7L	3050
Porsche 986 Boxster	00-04	2.7L	2650/driver
Porsche 911/964	89-94	3.6L	3000/driver
Porsche 911/993	93-98	3.6/3.8L	3000
Porsche 911 Carrera	84-89	3.2L	
Saleen Mustang	84-89	5.7L	

(SSB) Grand Sport

Acura NSX	91-01	3.0/3.2L	2730/2930
BMW M3/E30	85-92	2.5L	2700
BMW Z3	99-00	2.8L	2750
BMW Z4	01-04	3.0L	2825
Chevrolet Monza V6	78-80	3.8L	2680
Ford Mustang/Cobra (Gen 4)	94-04	3.8/4.6L	3200/driver
Ford Mustang/Cobra/SVO (Gen 2/3)	74-93	2.3-turbo/5.0L	3200/driver
Ford Taurus/Taurus (SHO) V6	86-95		
Lotus Elise S2 SC	02-		2006
Mazda RX7 turbo (12A)	78-85	1.2L rotary	2350
Mazda RX7 (Gen 2, 13B)	86-89	1.3L rotary	2500
Mazda RX7 (Gen 3, 13B)	91-02	1.3L rotary	
Mazda Miata (Gen 1/2)	94-05	1.8L	2070
Mazda Miata (Gen 3)	06-	2.0L	
Mercury Capri	79-86	5.0L	3200/driver
Nissan 300ZX	84-88	3.0L	2685
Nissan 350Z	02	3.5L	2900
Olds Starfire V6			
Porsche 986 Boxster (Spec)	97-99	2.5L	2650/driver
Porsche 944, 944 S2, 968		3.0L	2650
Porsche 944/961 Turbo C/S		2.5L-turbo	2900
Porsche 911SC, Carrera	76-83	3.0L	
Unlisted SCCA ITS cars			

(SSC) Sport

Alfa Romeo GTV-6	81-83	2.5L	2500
BMW M3/E30	85-92	2.3L	2700
BMW 328/330 E46	98-07	2.8/3.0L	2850
BMW 325i/is E36	92-99		
BMW 325i/is E30	82-93	2.5L	2570
Chevrolet Cosworth Vega	75-76	2.0L	2400
Datsun/Nissan 240Z, 260Z, 280Z, 280ZX, 300ZX			
Dodge Shelby Charger			
Eagle Talon, Dodge Laser, Mitsubishi Eclipse			
Ford Focus ST	12-	2.0L turbo	
Lotus Elise S1	96-01		1660
Lotus Elise S2	02-		1896
Mazda RX7 (12A)	78-85	1.2L rotary	2350
Mazda Miata MX-5 (gen 1)	89-93	1.6L	2025
Nissan 200SX	87-	3.0L	2705
Olds 442, Quad 4, Achieva, Calais		2.3L	2475
Olds Achieva		2.5L	2575
Pontiac Fiero V6	85-87	2.8L	2380
Pontiac Sunbird V6			
Porsche 924S		2.5L	2510
Porsche 944 (2-valve)		2.5L	2535
Toyota Supra	82-88	2.8/3.0L	2710/3200
Toyota MR2 (1.6L)			
Unlisted SCCA ITA cars			

(SSD) Touring

Acura Integra R	97-01	1.8L	2350
Acura TSX	02	2.0L	2450
Audi 4000, Fox			
Audi A4	97-00	1.8L turbo	2655
BMW 320i			
BMW 318i		1.8L	2300
Buick Skyhawk	75-80	3.8L	2730
Chevy Cavalier	86-87	2.8L	2350
Chevy Cobalt SS/SC	05	2.0L	2450
Datsun/Nissan 200SX, 240SX		2.0/2.4L	
Dodge Charger, Daytona, Omni, Colt, Neon			
Dodge SRT4	03-04		2550
Ford Focus	98-10	2.0/2.3L	2600/2675/driver
Ford Mustang, Pinto (2.3L)			
Honda Civic, CRX, Accord, Prelude			
Honda Accord	05	3.0L	2650
Honda Civic SI	06	2.0L	2550
Lexus IS 300	01	3.0L	2800
Mazda Cosmo, RX2, RX3, 323, 626, MX6			
Mazda 6	03	3.0L	2600
Mazda RX8	04		2700
Mazda Protégé	00-03	2.0L turbo	2350
Mercury Capri, Bobcat (2.3L)			
Mercedes 190E			
Mini Cooper-S			2200
Nissan Sentra	03-04	2.4L	2300
Peugeot			
Saab 900-S			
Toyota Corolla, Celica			
VW Golf GTI	90	2.0L	2200
VW Golf, Rabbit, Scirocco, Corrado			
Unlisted SCCA ITB cars			

Appendix A:

American V6 & V8

Roller rocker arms (no roller cam)

Wet sump only

Aluminum flywheel

Ford 9" differential with full floating axles

Fiberglass hood and deck lid

Alternate unmodified aftermarket intake manifold to mount one 4-bbl carburetor