MUSTANG (CSM) RULES

OBJECTIVE

Provide an affordable multipurpose package that combines a street-ready, autocross capable and track appropriate performance in a single car using specified parts.

ELIGIBLE VEHICLES

2005-2009 Ford Mustang GT Coupe, Convertible (S197 Chassis)
Including California Special, Shelby GT, and Bullitt models

VEHICLE REQUIREMENTS

Engine: 4.6L, 3 Valve V8
For Manual Transmission: Rear Axle Assembly Gear Ratio: 3.55:1
For Automatic Transmission: Rear Axle Assembly Gear Ratio: 3.31:1

REQUIRED PERFORMANCE KIT

A. Parts specified below (tires, wheels, and suspension) must be used. All components and parts (e.g., hardware) are required to be installed per manufacturer instructions. Original equipment (OE) or equivalent components are not allowed. Note: Ford Racing M-5300-K springs and M-5490-A sway bars may be used/retained on factory built and serialized Shelby GT models.

B. Anti-roll (sway) bar end links may be substituted but may serve no other purpose.

C. Tires: Bridgestone Potenza RE-71RZ size 275/40R18
   - Note: For Time Trials events in wet conditions, any tire with a treadwear rating of 300 or higher and a section width of no more than 275 may be utilized.
   - Goodyear F1 Supercar 3 (220 Treadwear), size 275/40R18 may continue to be used until 6/1/2027

D. Wheels
   a. Diameter and width (in.): 18x9.5
   b. Offset, including wheel spacer (mm): +35 (35ET or ET35) or greater
   c. Weight, without spacer if used, minimum (lbs.): 17, including:
      i. Wheel weights
      ii. TPMS sensor if installed
      iii. Tire valve stem (type unrestricted)
   d. Wheel spacers are allowed provided the resultant combination with the wheel complies with the offset requirements.

E. Suspension

a. KONI Sport Strut, Front, Part# 8741-1494SPORT* or Summit Racing Equipment Part# KON-87411494SCCA
b. KONI Sport Strut, Rear, Part# 8241-1240SPORT* or Summit Racing Equipment Part# KON-82411240SCCA
    * For competition programs, struts must be sealed by an authorized KONI dealer.
c. Eibach Pro-Kit Lowering Springs- Part# 35101.140
d. Choice of:
    i. Strano Performance Parts kit Part# SpecS197-1. Includes bars, bushings, collar locks, Billet aluminum rear mounts
    ii. Strano Performance Parts kit Part# SpecS197-2. Same as above, adding front sway bar mount reinforcements + Billet Front sway bar brackets
    iii. Eibach Mustang Anti-Roll Bar Kit- Part# 35101.320
e. Choice of:
    i. Maximum Motorsports Caster Camber Plates- Part# MM5CC-1
    ii. BBK Performance Caster Camber Plates- Part# 2551

AUTHORIZED CHANGES/MODIFICATIONS

A. If a change or modification is not specifically authorized, it is not allowed. All repairs must comply with factory-authorized methods and procedures, or industry standard methods, as follows: If the manufacturer does not provide an appropriate method of repair, industry standard methods and procedures may be used. Such repairs may not result in a part or combination of parts that provides a performance advantage (e.g., significant change to weight, suspension control, power, etc.) as compared to the standard part(s). Competitors are strongly cautioned to use this allowance to make common-sense repairs only.
B. Wheel lug studs (e.g., length) and lug nuts may be changed.
C. Components which are normally expendable and considered replacement parts may be used provided they are essentially identical to the standard parts, used in the same location, and provide no performance benefit. Examples are:
    a. Clutch and related components (excluding flywheel).
    b. Hardware (nuts, bolts, clips, etc.).
D. Parts superseded by Ford® may be used.
E. These allowances are strictly to permit components to be replaced from alternate sources other than the original manufacturer. They should not be construed as an allowance to replace components with those which could be considered a "higher performance" alternative.
F. It is not permitted to use non-compliant parts even if they have been set to the manufacturer's specifications.
G. For RallyCross events only, any Shock and spring may be utilized per the Prepared rules in the RallyCross Rules
H. For RallyCross events only, any tire may be utilized per the Prepared rules in the RallyCross Rules.

BODYWORK/INTERIOR

A. Front bumpers, rear bumpers, body trim pieces, and attachment points may be reinforced to prevent or repair damage from hitting cones. Reinforcements that are not visible to the exterior of the car are allowed. Such repairs and/or reinforcements may serve no other purpose.
B. Factory installed dress up items, such as hood scoops, spoilers, and side vents may be removed, added, or substituted including the usage of replica items that are identical in design to the OE options.
C. Factory option or aftermarket grills may be utilized, provided the replacement has the same function and mounting locations as the original.
D. Accessories, gauges, indicators, lights, and other appearance, comfort-and-convenience modifications which have no effect on performance and/or handling and do not materially reduce the weight of the car are permitted. This does not allow driver's seat substitutions, or the removal of "tow hooks" or "tie-down loops." Data acquisition systems (including video cameras) and the accompanying sensors are allowed but may serve no other purpose during a run than real-time display and data recording.
E. Alternate shift knobs are allowed.
F. A commonly available short throw shifter may be utilized, examples include:
    a. Hurst Competition Plus Short Throw Shifter, Part# TR-3650
    b. STEEDA Ford Mustang Tri-Ax Shifter, Part# 555-7305
    c. MGW 2005-2010 GT & V6 Short Throw Shifter
    d. MGW 2005-2010 GT & V6 Flat Stick Shifter
G. Spare tires, tools, and jacks may be removed. Any fastening hardware and/or other pieces that can no longer be firmly secured in the absence of the spare tire may be removed if necessary to ensure compliance with Solo® Rules section 3.3.3.B.1, Safety Inspections, Inspection Requirements.
H. Cars may add one (1) rear trailer hitch. Factory tie downs and cosmetic pieces (e.g., diffusers) may be modified or removed to facilitate hitch installation. Complete or partial removal of the hitch is allowed for competition, provided it does not result in a reduction in weight compared to the unmodified standard configuration.
I. Tow bar brackets may be installed and may serve no other purpose.
J. Any item not permanently in place by manufacturer-installed fasteners may be removed (i.e., emergency tool kits).
K. The OE radio and speakers may be substituted. Other OE sound system components may be substituted or removed.

SAFETY

A. SCCA Safety Levels 2 and 3 are allowed.
B. Provided the vehicle fully meets SCCA Safety Level 2 as defined in the Time Trials Rules, the following may be added, replaced, or modified within the guidelines stated in Safety Level 2:
    a. Compliant Rollbar (Required for Safety Level 2)
    b. Fixed back racing seats for driver and passenger side
    c. Racing harness(es)
    d. Replacement of steering wheel and/or removal of steering wheel airbag
    e. Rear seats carpet and trim behind the seats may be removed

   f. Sunroofs, moonroofs, and similar roof-mounted panel cartridges may be replaced by an alternate solid panel serving no other purpose. Attachment is unrestricted but must be secure.
   g. Airbags may be removed

C. Vehicles that do not meet SCCA Level 2 Safety may not substitute or modify seats or steering wheel, however driver restraints as outlined in Solo® Rules section 3.3.1, Driver Restraints, are allowed. Seats may not be cut to allow for the installation of alternate seat belts or harnesses. A horizontal "harness bar" may be used as part of the installation hardware for allowed driver restraints provided it has no more than two (2) attachment points to the chassis and is bolted at those locations. A C-type harness bar may also be used; it may have four (4) bolted attachment points to the chassis (2 primary and 2 supporting connections to resist rotation). Truss-type harness bars with more than two (2) attachment points are not allowed.
D. If the vehicle is equipped with a minimum 6-point roll cage, driver's seat, and restraints meeting SCCA Time Trials Safety Level 3 Standards, all interior carpet, trim, and passenger seats, other than the factory dash, may be removed.

BRAKES

A. Ford Racing 2005-2014 Mustang GT 14-inch SVT Brake Upgrade Kit, Part# M-2300-S, or any Ford OEM kit utilizing 14" rotors and Brembo 4 piston calipers may be utilized.
B. No Rear brake caliper relocation kits are allowed.
C. Goodridge G-Stop Brake Line Kit is allowed, Part#12364 (these lines are included in the Ford Racing SVT Kit listed above). The brake shields from the SVT kit or Brembo kit are not required if the OE brake shields are installed.
D. The make and material of brake linings (pads) may be changed.
E. Brake Shields front and rear may be Added, Modified or Removed as long as they serve no other purpose (provide ducting or similar)

SUSPENSION

A. Alignment: Both the front and rear suspension may be adjusted through their designed range of adjustment by use of the specified parts. No suspension part may be modified for the purpose of adjustment.
B. Bushings
   a. Suspension bushings as supplied in the kits are mandatory.
   b. Those not included in the supplied kits may not be replaced with bushings of a different material or dimension.
C. Ford Racing Rear Control Arm may be utilized, Part# 9R3Z5A649B or Part# M-5538-A
D. The following Front Control Arms may be utilized:
   a. Ford Part# 4R3Z3078B
   b. Ford Part# 3079B
   c. Ford Racing Part# M-3075-E
   d. Motorcraft Part# MCF 2364 and 2365
E. Ford Performance Bump Stop Kit may be utilized, Part# M-5570-A
F. A commonly available aftermarket Panhard Bar, that mounts in the OEM/Stock body and axle locations may be utilized, including those adjustable for length. This does not allow for Panhard Bar relocation, adjustable height Panhard Bars, or replacement

of the Panhard Bar Brace. Any bushing, rod-end, spherical bearing may be used. Examples include:
    a. UMI Performance On-Car Single Adjustable Panhard Bar, Part# UPI-1044-B
    b. STEEDA Autosports Street Panhard Bar Kit 05-14 Mustang, Part# 555-2551-A
    c. Eibach Pro-Alignment Performance Kit Panhard Bar Part# 5.72045K

G. The UMI Ford Mustang GT Adjustable Front Strut Tower Brace may be utilized, Part# UMI-1005-B
H. The STEEDA Mustang Upper Third Link Spherical Differential Bearing may be utilized, Part# 555-4104

ELECTRICAL SYSTEM

A. The make of spark plugs is unrestricted.
B. Tire Pressure Monitoring Systems (TPMS) may be disabled. Altering the signal to the TPMS module is allowed.

ENGINE AND DRIVETRAIN

A. The air intake system, upstream of the throttle body, may be replaced with a CARB approved, commonly available aftermarket unit that utilizes a cone filter and divider wall. Examples include:
    a. K&N Part# 57-2565
    b. Airaid Part# 450-172
    c. aFe Power Part# 51-10293
    d. aFe Power Part# 54-10293
B. The engine management system parameters and operation of internal combustion engines may be modified only via the methods listed below.
    a. OE ECU software may be reprogrammed, but no changes to the factory ECU hardware are permitted.
    b. Any OE OBD2 or newer communications port functionality must remain.
C. Oil filters are unrestricted.
D. Ford Performance Traction-Lok Rebuild Kit with Carbon Fiber Clutch Pack may be utilized, Ford Performance Part# M-4700-C, or may replace with a TrueTrac differential Part #913A561.
E. The installation of oil catch tanks or oil separators is allowed provided the function of the PCV system remains functional.
F. Engine Cooling Radiator may be replaced provided it uses OE radiator Mounts and an oil cooler is allowed provided no unauthorized modifications are made to perform the installation.
G. Exhaust piping downstream of the catalytic converter may be substituted before and/or after the mufflers including exhaust tips.
H. Mufflers may be substituted, provided there are two, one in each stock location no smaller than 6 inches in diameter or 4x6 inches height and width if oval.
I. Silicone replacement hoses are allowed as alternate components provided they meet the requirements of Solo® Rules section 13, Street Category, with regard to size, shape, location, and performance equivalence. Replacement induction system air intake hoses must also match the standard part in stiffness, contour, and internal wall texture.
J. Lubricants and fluids are unrestricted.

K. Fuel must be Federally approved for use on public highways and widely distributed and typically sold in filling stations, commonly called "pump fuel" with typical octane ratings or AKI (Anti-Knock Index) (R+M/2) displayed on the pump between 87 and 93. The maximum octane rating allowed is what is typically delivered from a pump marked 93 octane*. Fuels comprised of more than 15% ethanol may only be used when specified by the manufacturer (e.g., in the owner's manual for flex-fuel vehicles).

   *Octane verification: Octane levels will vary from the number listed on the pump. Octane testing has a "margin of error" and different testing procedures will produce similar but different results. For the purposes of testing gasoline, a result that exceeds 95.9 octane is not allowed and will result in a disqualification with no exceptions (hard limit). This limit gives competitors a 99.99+% confidence level that fuel purchased from a pump marked 93 octane is compliant. Warning: Competitors attempting to approach the 95.9 octane limit through mixing or by any other means may inadvertently create fuel that appears compliant but may test above the 95.9 hard limit.