

KONI CHALLENGE REGULATIONS

2007 Rule Book 7/31/07

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GRAND-AM CUP REGULATIONS

SECTION 1 - PURPOSE

1-1 Purpose - This category is designed to encourage race competition of standard volume-produced cars and components, to demonstrate the quality and reliability of various makes and models, and to promote the performance of drivers, manufacturers and other participants.

SECTION 2 - DEFINITIONS

2-1 Definitions – “Automobile” or “car” is used throughout the Grand American Rule Book to mean the Grand American approved engine block/crankcase and body shell/chassis combination. During a race neither the body shell/chassis nor the engine block may be replaced.

SECTION 3 - ELIGIBILITY

3-1 Eligibility – All automobiles, chassis, bodywork and/or engines presented for competition to Grand American must be approved by Grand American and conform to the rules, regulations and specifications for the various classes published in this rulebook.

3-1.1 Grand American will determine and publish a list of specific eligible makes and models of automobiles.

Eligible cars will ordinarily be those described in manufacturer's catalogs, produced at a minimum rate of 500 units per year, and available for purchase through normal dealer outlets 30 days or more prior to competing in an event. Exemption from minimum production requirements must be approved by Grand American.

3-1.2 Equipment will not be considered as having been approved by reason of having passed through inspection unobserved.

3-2 Classes

3-2.1 Grand American will recognize two classes of eligible makes and models - Grand Sport (GS) and Street Tuner (ST).

3-2.2 Grand American may at its own discretion reclassify, add or delete specific makes and models, or change specifications.

3-2.3 Cars will remain eligible for competition for five years after the last model goes out of production.

3-3 Recognition/Configuration

3-3.1 Grand American may use any legitimate forms, publications, original components and vehicles describing the production OEM (original equipment manufacturer) specifications of the eligible makes and models in order to verify compliance with these regulations.

Grand American may require a competitor to furnish factory specifications prior to competing.

3-3.2 Grand American may establish specifications that are not per the original manufacturer specification.

3-3.3 Each car must conform to the standard configuration as delivered to U.S. consumers by the manufacturer except where these regulations allow or require modifications.

3-3.4 Grand American may require competitors to exchange or replace parts with those of another competitor; manufacturer's replacement part or as otherwise stipulated by Grand American.

3-3.5 Grand American will publish the required tire sizes for each eligible make and model on the vehicle eligibility list.

3-3.6 ABS and Traction Control, if used, may only be OEM for the car unless specified in Section 8. These systems, if used, must be used in conjunction with the as delivered OEM management systems. Aftermarket ABS and Traction Control systems and/or aftermarket ABS and Traction Control management systems and/or processors are not permitted.

SECTION 4 - CHASSIS/BODYWORK REGULATIONS

4-1 Drive and Steering -

- 4-1.1 The automobiles must have four wheels not in line.
- 4-1.2 Four-wheel steering is prohibited.

4-2 Added car weight -

- 4-2.1 All ballast must be carried in a ballast box constructed of metal with a minimum thickness of .100 and utilize the passenger seat mounts for anchoring. The box must fully enclose the ballast with a top that bolts in place. The ballast must also be secured inside the ballast box.
- 4-2.2 It is prohibited to add or remove weight or change to a lighter component during the race.
- 4-2.3 Grand American reserves the right to check vehicle weight at any time during an event.
- 4-2.4 Grand American reserves the right to adjust minimum weights.

SECTION 5 - FUEL CELLS

5-1 Fuel Tank/Cell –

- 5-1.1 Fuel tanks must remain OEM unless an approved fuel cell is used.
- 5-1.2 Safety fuel cell foam is permitted in the OEM fuel tank.
- 5-1.3 Fuel cell installation must be approved by technical department.

5-2 Fuel Fillers/Vents -

- 5-2.1 Fueling systems must conform to Grand American General Automobile Regulations. Single dry break rigs must use 1 1/2 inch hose.
- 5-2.2 Cars may be fueled using single or double dry break fueling systems. When using the dry break system, both the filler and the air vent must be equipped with a leak proof probe dry break coupling complying with the dead man principle. The couplings must not incorporate any retaining device when in an open position. If dual dry break is used the receptacle must be accessed by opening the trunk or hatch.
- 5-2.3 Modifications necessary for a dry break fuel system installation are permitted. OEM fuel doors must be operational.
- 5-2.4 Fuel Sample Ports - Competitors must install a fuel sampling port at or just before the injector rails.
- 5-2.5 All fueling in pit lane during a race must be done with a gravity-fed fueling rig The fueling rig must be used as designed and delivered from the manufacturer, with no modifications of any kind. BSR fuel rig part # BSR FR 2005GA will be the only permitted fueling rig with implementation as follows. The maximum overall height of 6 feet (excluding the vent) is measured from the pit lane surface. The fuel rig must have adjustable legs in order to compensate for various track/pit lane pavement levels. The fuel hose must be a clear 1.5-inch ID with a minimum length of 10 feet. The automatic shut off valve must be manned during fueling. The shut off valve must immediately stop the flow of fuel into the hose when it is manually released. The valve may not be fitted with any device that allows it to stay in the open position. Each fueling hose must be fitted with a BSR Blue one inch restrictor used to connect the clear 1.5-inch ID fuel hose to the clear 2 ¼ inch ID hose on dry break fueling probe. All fuel must pass through the restrictor. A clear 1.5 inch ID hose must connect the BSR Red one inch adapter to the fuel rig. A 2 ¼ inch ID clear hose must connect the red adaptor to the dry break probe. All fuel must pass through the restrictor and adapter. No other connectors or adapters are permitted in the system. No tapered fittings or cone like devices are permitted in the refueling system. Sight tube may be installed in the fuel rig.

Mandatory Supplier: BSR Products contact Bill Seifert 800.432.2798

5-3 Fuel Lines -

- 5-3.1 Standard fuel hoses and lines may be replaced by armored lines maintaining standard I.D. and routing.
- 5-3.2 When flexible, all lines must have threaded connectors and have armored braid.

5-4 Fuel Capacity -

- 5-4.1 Any device, system, procedure, construction or design, the purpose and/or effect of which is any increase whatsoever, even temporarily, of the total fuel storage capacity beyond the maximum is prohibited.

5-4.2 Grand American reserves the right to adjust the fuel capacity.

SECTION 6 - MANDATORY SAFETY EQUIPMENT/MODIFICATIONS

6-1 Roll Cage - All cars must be equipped with a roll cage made from a minimum of 1.750 x .090 DOM seamless steel tubing and constructed per normal industry standard on any car built after 2001. The roll cage must include a horizontal bar between the main hoop upright, at shoulder height, to facilitate seat bracing/mounting. The roll cage structure may not extend forward beyond the firewall. Koni Challenge cars present a variety of different scenarios when it comes to roll cage construction. Please feel free to call our office for clarification.

6-1.1 For Koni Challenge roadsters, the roll cage specification is per sections 10-3.1, 10-3.1-1.1, and 10-3.1-1.2 except for bars #16A, #4A and #8. Bar #6 is optional.

See General Automobile Regulations: Ref. Section 10-3.

In addition to the driver's side window net in Koni Challenge roadsters, driver arm restraints must be worn by the driver in such a fashion that the driver cannot reach within 6 inches of the top of the roll cage.

6-1.2 Accepted FIA-spec cars may use 40.0 mm X 2.0 mm tubing.

6-2 Glass - The driver and passenger door glass must be removed. All other greenhouse glass must remain as standard. All headlight, taillight, side marker and turn signal lenses must remain as standard unless otherwise allowed to be removed. Windshield and rear glass supplemental clips or straps may be added. Tinted glass is not permitted.

6-3 Other Safety Modifications

6-3.1 Hubcaps, wheel trim, spare wheel, jack and any tools must be removed.

6-3.2 Air bags and related components must be removed. Steering wheel locks must be removed.

6-3.3 Wheel lugs may be lengthened up to two inches in order to accommodate thicker wheels. The lug type is free. i.e. bolt vs. stud. The lug nut assembly may not protrude more than two inches from the mounting face or protrude beyond the outer plane of the wheel.

6-3.4 Catalytic converters must be removed.

SECTION 7 - AUTHORIZED MODIFICATIONS

7-1 Standard Components - The following authorized modifications may be made but are not required.

The standard OEM components may be used at all times.

7-2 Brakes

7-2.1 Grand American may allow a brake upgrade for specific models. If allowed, only one two-piece (split into two halves) caliper of aluminum alloy with a maximum of four pistons and two pads per wheel permitted.

7-2.2 The emergency brake system may be removed. ABS brake components and system may be deactivated and/or removed. ABS, if used, can only be OEM system for car. Aftermarket systems are not permitted.

7-2.3 Backing plates and dust shields may be modified or removed.

7-2.4 Fluid or fan cooling of the brakes is prohibited.

7-2.5 Brake pads, brake lines and hoses are free provided standard I.D. and routing are maintained. Quick couple brake line connectors are prohibited.

7-2.6 Replacement brake rotors may be used provided the replacement is of the same material and is within five-percent of the OEM rotor dimension. One-piece rotors may be replaced with two-piece design (hat and disc).

7-2.7 Air ducting to the front brakes is permitted either through the front OEM parking or fog light openings or the underside of the front bumper. Maximum two brakes ducts are allowed

7-2.8 Cars are allowed cockpit brake fluid bias adjustment.

7-3 Shocks, Springs, Suspension

7-3.1 No modifications to suspension components are allowed unless otherwise approved per vehicle make and model.

7-3.2 Shocks and springs may be replaced with commercially available aftermarket or OEM units provided they are used without modification to any other components. Coil-over shocks may be used provided OEM pick up points are utilized. Koni shocks are mandatory on all Koni Challenge Series cars beginning 01/01/09

7-3.3 Caster and camber adjustments may be made with approved fitting of camber plates to an

allowable limit of negative 3 degrees or as specified by Grand American.

7-3.4 Front and rear sway bars may be added or replaced with aftermarket bolt on sway bars affixed to the OEM sway bar mounting points.

Welded in sway bars are not permitted unless OEM in which case no modification is allowed. Cockpit/driver adjustable sway bars are not permitted.

7-3.5 Any suspension bushing, sub-frame bushing, engine mount, transmission mount or differential mount may be replaced with non metallic substitutes of the same dimensions that do not require modification to any other component. The replacement bushing cannot change / offset the location of any component

7-3.6 No spherical rod ends or similar applications are permitted with the exception of shock and sway bar ends.

7-4 Lights

7-4.1 Standard headlights and parking lights may be removed and replaced with a plate of identical shape and size of the lens - for daytime racing only. OEM headlights must be used when lights are required.

7-4.2 Standard headlight beams may be replaced with aftermarket units of equal dimension.

7-4.3 For nighttime events a maximum of two front auxiliary lights may be added in the grill area on the front of the car.

7-4.4 Daytime running lights and back up lights may be disconnected.

7-4.5 Brake lights must be operational.

7-5 Exhaust System

7-5.1 All catalytic converters must be removed unless otherwise stated.

7-5.2 Exhaust pipes must exit behind the driver; extend to the perimeter of the bodywork and direct exhaust gases on a minimum of 45 degrees down.

7-5.3 The exhaust system on naturally aspirated cars is free beyond the OEM exhaust manifold except as noted in 7-5.2.

7-6 Turbocharging/Supercharging

7-6.1 All eligible turbocharged/supercharged cars must compete using the standard OEM production intake and exhaust system excluding the catalytic converters and mufflers. Once removed, a replacement pipe of the OEM diameter must be installed in place of the catalytic converters and mufflers.

7-6.2 Cars will be required to use a Grand American-supplied data logger and/or provide access to their data logger (if used).

7-6.3 Supercharged cars must use OEM pulleys

7-7 Other Items Which May Be Substituted

7-7.1 Spark plugs, wires, distributors, ignition wiring and batteries

7-7.2 Filters, fluids, lubricants

7-7.3 Belts, pulleys, hoses, wiper blades

7-7.4 Inside mirrors, fittings, nuts, bolts and fasteners

7-7.5 Gaskets, bearings, piston rings Replacement head gasket must be OEM thickness.

7-7.6 Fuel pressure regulators and fuel injectors

7-7.7 Radiators

7-8 Engine

7-8.1 Engine management systems may be replaced with non-OEM systems with Grand American approval. Effective 01/01/08 all Grand Am Cup cars that choose to use an aftermarket ECU must use the Grand American specified ECU and wiring harness.

7-8.2 The following components may be tooled enough for balancing only - pistons, rods, crankshaft, harmonic balancer, flywheel and clutch.

7-8.3 The lightest rod and piston must remain unaltered.

7-8.4 The crankshaft, flywheel and harmonic balancer may weigh no less than the OEM specification.

7-8.5 Aftermarket pistons may be used provided they remain identical in weight, dimension and form.

7-8.6 Allowed to overbore block up to .030 maximum.

7-8.7 The oil pan and oil pick up may be modified (not the pump)

7-8.8 Engine oil Accu-sump system and valve is permitted

- 7-8.9 All pushrod engines may use aftermarket blueprinted or adjustable length pushrods, provided they are of the same material and configuration of the original.
- 7-8.10 Other items that may be replaced include cam gears, sprockets and chains.
- 7-8.11 The airbox and air filter are free on normally aspirated cars. Ram air induction is not permitted.
- 7-8.12 Grand American will provide restrictors when required. Teams will be responsible for gaskets and bolts to attach the restrictors.

7-9 Steering Wheel/Steering System

- 7-9.1 The steering wheel may be replaced with any non-wood steering wheel.
- 7-9.2 Steering wheel locks must be removed.
- 7-9.3 All air bags must be removed.
- 7-9.4 Power steering must be retained, if so equipped.
- 7-9.5 Quick release steering wheel adapters are allowed with technical department approval.

7-10 Doors/Hood/Body Shell

- 7-10.1 Seam welding is permitted provided no metal is added.
- 7-10.2 Jacking points are permitted. Four plates not exceeding 30 square inches may be added. Air jacks may not be used at any time.
- 7-10.3 Hood and trunk pins must be installed with a cable attaching the pin to the car. Original hood and trunk latches must be removed. There must be a minimum of two pins or latches on hood and trunk.
- 7-10.4 Original door latches must function as originally installed.
- 7-10.5 Doors must remain unlocked at all times. The standard door locks must be removed.
- 7-10.6 A metal panel of equal size and shape must replace the transparent portion of a factory-installed sunroof. Sunroof slide mechanism may be removed.
- 7-10.7 It is permitted to install a removable strut between the opposite strut tower points, front or rear, (all classes) and permissible to run two symmetrical rearward running struts from the shock towers to the center of the front firewall.
- 7-10.8 It is permitted to remove inside bracing and panels from the doors.

7-11 Ride Height/Track -

- 7-11.1 Minimum ride height is 3.5 inches measured anywhere on the car.
- 7-11.2 Tires and wheels must be inside the bodywork from axle centerline up as viewed from above.

7-12 Items That May Be Removed

- 7-12.1 Air conditioners, compressors, hoses, condenser, cruise control and related components may be removed.
- 7-12.2 Radios, antennas, and stereo system components may be removed provided a metal plate covers the remaining hole.
- 7-12.3 Inner fender liners may be removed.
- 7-12.4 Sun visors may be removed. Interior headliners, carpeting, passenger and rear seats, trim panels, center consoles, inner front door panels and door winding mechanisms may be removed.

7-13 Gearbox, Differential, Drive train

- 7-13.1 Driveshaft - On front-engine rear-wheel drive vehicles, a sturdy metal strap must be mounted to the chassis to prevent the drive shaft from leaving the vehicle in the event of drive shaft coupling failure.
- 7-13.2 Only manual transmissions are allowed.
- 7-13.3 Grand American will specify any alternate gear ratios for cars on the vehicle eligibility chart.
- 7-13.4 Limited slip or posi-traction differentials are permitted.
- 7-13.5 On manual transmission models the clutch may be replaced with an aftermarket clutch that is interchangeable (using the same mounting holes) and the same dimension of the OEM component.
- 7-13.6 Original flywheel/clutch assembly may be replaced with an aftermarket assembly provided it is within eighty percent of the weight of the original and utilizes the OEM starter motor.
- 7-13.7 Installation of a ballistic flywheel/transmission blanket is recommended.

7-14 Tires

7-14.1 Official Tire - The official tire is the Hoosier Koni Challenge performance radial tire. No other tire may be used. Contact: Hoosier Racing Tire 574-784-3152.

TIRES MUST BE ORDERED TWO WEEKS PRIOR TO THE EVENT.

SECTION 8 - VEHICLE ELIGIBILITY AND NOTES

8-1 New model or vehicle eligibility requests may be made directly to the Grand American Technical Director at anytime. New approvals will not be eligible for competition until such time as Grand American publishes a bulletin listing any new additions.

8-2 Grand Sport (GS)

Car	Final Dr	Fuel Cap	GAC Wt	Options
BMW M3 Coupe (3.2) 2001-2004	3:91	19.0	3150	Tire size: 245 /45/17 front, 275/40/17 rear. Rear aero# 10 046 133. Allowed alternative engine oiling system. Allowed four-piston, two-piece calipers. Front brake upgrade allowed. Must use OEM air intake. If dry sump is used the battery may be relocated to a position over the rear axle. May use aftermarket ECU
BMW M Coupe (3.2) 2002	3:73:1	19.0	3100	Tire size: 245/45/17 front, 275/40/17 rear. Front brake upgrade allowed. May use aftermarket ECU
BMW Z4 M Coupe (3.2) 2007	3:62	19.0	2900	Tire size: 245 /45/17 front, 275/40/17 rear. Allowed alternative engine oiling system. Front brake upgrade allowed. Must use OEM air intake ,Must use OEM ECU. If dry sump is used the battery may be relocated to a position over the rear axle.
Cadillac CTS V 2004	3:73:1	20	3150	Tire size: 275/35/18, 5.7 liter, 6 speed, engine RPM limit: 6,500. Allowed: GM Performance Parts body kit part numbers CTS-0552 thru CTS-0570 (these are light weight replicas of OEM bodywork),two stage external oil scavenge system , 5 stud Z06 corvette hubs , modified rear trailing arm for tire fitment.. Must use complete unmodified OEM air intake system. Inlet restrictor size - 68 mm. Must use OEM ECU
Camaro / Firebird (5.7) 1998-2001	3.45:1	20.0	3100	Tire size: 275/40/17. LS1 engine with camshaft # 12480033, headers allowed. Two stage external scavenge oil pump allowed. Front brake upgrade allowed. Must use OEM ECU
Ford Mustang Cobra (5.0) 1998-2002	3.55:1	20.0	3075	Tire size: 275/40/17. Engine: 11mm lift motorsports cam, sleeve or change block to 94mm bore. Exhaust headers part no. JBA 66255 allowed. Maximum exhaust size 2.5 inches. Allowed Steeda #307-0099 hood and #307-0005 rear spoiler. Front brake upgrade allowed. Must use OEM ECU
Ford Mustang GT (5.0) 2005	3:55 :1	20.0	3300	Tire size: 275/35/18. 5.0 liter engine # M6007-R50P with fixed runner length at 3 and 4 inches. Must use ECU and exhaust manifold as supplied with engine. M-7003 T56-RP transmission pkg. M-4602-J one pc. Driveshaft. M-3075-R front control arm. M-3130R front outer tie rod. M-5649-R rear control arm. 355 mm front rotor with caliper upgrade per rule book. Fuel cell mounted behind rear axle. 307-0011 Steeda Hood and 307-0009 Steeda rear wing allowed Must use Grand American air restrictor as supplied. Steeda rear Panhard bar #555-2551 allowed. Engine must be sealed as presented by Multimatic Motorsports Inc. All rebuilds must be performed by Multimatic Motorsports Inc. May use ABS unit #7R33-2C353-AB as alternate to the original.
Nissan 350Z (3.5) 2003 - 2006	3.53:1	19.0	2900	287 HP Track option model allowed. Tire size: 245/40/17 front, 275/40/17 rear. NISMO Aero package #G2010-RNZ30 allowed. Exhaust headers allowed. Allowed fabricated front upper control arm with sliding ball joint mount for camber adjustment. Allowed 7 1/2 inch lightweight clutch/flywheel assembly. Allowed Nismo cam kit part #99996-RSKK. Aftermarket front caliper upgrade as per rules. May use aftermarket ECU.
Pontiac GTO 2004 (5,7) 2005	3:73:1	20	3050	Tire size: 275/30/18, allowed front caliper upgrade, exhaust headers, Crane cams # 144HR000085 allowed, aftermarket stub axels, and half shafts and one piece driveshaft allowed, allowed two stage external dry sump. Alternative front sway bar mounts allowed, Wheel to Wheel #1049-1001-01 and 02 front fenders allowed. GTO-C-017L&R front hubs are allowed. Must use OEM ECU.
Porsche 996 Coupe (3.6) 2003	3.44:1	19.0	3000	Tire size: 245/45/17 front, 275/40/17 rear. Dealer aero package # 000-044-801-02, OEM two-piece lower control arms allowed. Allowed GT3 adjustable rear toe link. Must use OEM ECU.

Porsche 996 Targa (3.6) 2002	3.44:1	19.0	3000	Tire size: 245/45/17 front, 275/40/17 rear. Dealer aero package # 000-044-801-02, OEM two-piece lower control arms allowed. Must replace Targa glass panel with metal. Allowed GT3 adjustable rear toe link. Must use OEM ECU.
Porsche 997 (3.6) 2005 -2007	3.44:1	19.0	3075	Tire size: 245/45/17 front, 275/40/17 rear. OEM two-piece lower control arms allowed. Must use OEM ECU with factory rev limit. May use rear wing from kit # 997-044-802-00. Allowed GT3 adjustable inside rear toe link. May use alternate ABS controller. May use aftermarket ECU. Maximum RPM 7300

8-3 Street Tuner (ST)

Car	Final Dr	Fuel Cap	GAC Wt	Options
Acura RSX Type S (2.0) 2002	4.7:1	17.0	2500	Tire size: 225/45/17. Allowed engine type is the K20A. Allowed rear wing P/N 71700-S6M-2012. Must use OEM ECU
Acura TSX 2.4i 2005	5.02	17.0	2600	225/45/17 tire size. Allowed: light weight hood, modified rear center links for adjustment, Hytech # 91228 Intake cam, #91229 exhaust cam, and exhaust header, #17400-PPA-A11-PN throttle body. May use Skunk 2 front ball joint adjuster kit # 516-05-5688. Must use OEM ECU, must use Stock OEM camshafts.
BMW E46 330 2000-2001	3.38:1	17.0	2875	Tire size: 225/45/17. Front and rear fascia and wing OEM upgrades allowed. May use aftermarket ECU
BMW E46 330 2004	3.46	17.0	2875	Tire size: 225/45/17. 3.0 liter, 225 hp, 6-speed. Allowed factory front bumper 51 11 7 893 328. May use aftermarket ECU
BMW Z4 (3.0) 2003	3.46:1	17.0	2875	Tire size: 245/40/17. Rear wheel size: 17" X 9". May use aftermarket ECU
Chevrolet Cobalt SS/SC (2.0) 2005	4.45	17.0	2525	Tire size: 225/45/17. Allowed: modify rear sway bar mount for adjustment, relocate lower rear shock mount ½ inch forward for wheel clearance, #CCS609 hood, #CCS610 deck lid, #CCS611 spoiler, #CCS608 fascia, front knuckle conversion #CCC606, Spherical end for lower control arm included in kit. Allowed light weight doors and fenders. Maximum RPM 6700. Must use OEM ECU. Maximum boost 12 psi absolute.
Dodge SRT4 2003-2004	3:53	17.0	2650	Tire size: 225/45/17. 215 hp 5 speed. 15 psi absolute boost. Allowed to use OEM Chrysler 300 front calipers. Allowed to use #P4510870 rear control arm. Must use OEM ECU
Honda Accord 2005 (3.0)	3.285	17.0	2725	225/45/17 tire size. Allowed Acura 45210 (230) SPO-EO1 and front calipers. Must use OEM ECU
Honda Civic SI 2006 (2.0)	4:764	17.0	2400	Tire Size 225/45/17 Allowed aftermarket exhaust header. Must use OEM ECU
2006 Hyundai Tiburon (2.7)	4.42:1	17.0	2500	Tire size: 225/45/17. Exhaust headers, camshafts 24100, 24900, 24200, 24700-37201R), OEM calipers (58180 and 58190-39A30) and OEM rotors (51712-39910) are allowed. Front control arm allowed 1 rear rod end. Allowed spherical rod ends in rear trailing links. Must use OEM ECU
Lexus IS 300 (3.0) 2001 Sedan and Sport Wagon	3.9:1	17.9	2800	Tire Size; 225/45/17 .OE cams 13501-46030, 13502-46021 to replace VVT, TRD exhaust manifold #00602-IS300-081, TRD brake package # 00602-GS400-982, TRD body kit 00644-52503- PO1,PO2 , PO3 , PO4 , OE trans #33030-OW212, Front and rear control arm and rear toe link

				modification for rod end adjustability allowed. HKS clutch assembly (part # HKS 2604-RT005) allowed. May use aftermarket ECU
Mazda MX 5 Miata 2006	4.875	17.0	2350	Tire size: 225/45/17. Allowed #0000-06-5150-KT air intake, #0000-06-5407 header. Must use #NFY2-R1-82XE-XX hardtop. May use aftermarket ECU, camshaft # Int 0000-01-5504 and ex0000-01- 5505
Mazda 6 (3.0) 2003	4.105:1	16.9	2600	Tire size: 225/45/17. May use exhaust header. Allowed front rotor #GP9Y-33-25X and GP9A-33-71XA, 61XA front calipers. Must use OEM ECU
Mazda RX8 2004	5.12:1	17.9	2650	Tire size: 225/45/17. RPM limit TBD. MAZDASPEED aero #QSEA-50-020-X1, QSEA-51-96Z and QSEA-70-900-X1 are allowed. Allowed exhaust header. Allowed oil cooler vent in trunk. May use aftermarket ECU
Mazda Protégé (2.0 turbo) 2000-2003	4.30:1	17.0	2350	Tire size: 225/45/17. MAZDASPEED Turbo allowed. Boost: 1800 mbs absolute. 2.5-inch exhaust, replacement rods and pistons with OEM specs, MAZDASPEED intercooler #000-01-9352-KT allowed. Must use OEM ECU
Mini Cooper S 2003	2.74:1	17.0	2250	Tire size: 225/45/15. 15 psi max boost. Allowed #51 11 7 182 621 front bumper trim, #51 12 7 192 764 rear bumper trim, #51 75 7 182 688 & 687 lower sill, #51 62 7 182 676 rear spoiler, Minimanía rear control arm kit # NMS5010. Allowed JCW R53 package. Must use OEM ECU
Nissan Sentra Spec V (2.4) 2003-04	4.133:1	17.0	2300	Tire size 225/45/17, Allowed Nismo piston/rod # 99996-QRRSP, valve spring# 99996-RNB55, cam# 13020-RNB55,header# 14002-RNB55, rear spoiler# 96030-RNB50,Front spoiler# 96010-RND50. Must use OEM ECU
Porsche Boxster 2000 (2.7)	3.44:1	16.9	2600	Tire size; front 225/45/17 rear 245/40/17 OEM "s" six speed transmission allowed.996 front calipers and rotors allowed Exhaust header allowed. Must use OEM ECU
Subaru Legacy Wagon/Sedan 2005 (2.5)	4.11:1	17.0	3100	Tire size 225/45/17. Must run stock exhaust with muffler, stock air box with stock air filter, stock boost and stock RPM Unit. Must use OEM ECU. Maximum RPM 6500, Maximum boost 13.5 psi absolute.
Subaru Legacy Spec B Sedan 2007 (2.5) 6 speed	4.11:1	17.0	3100	Tire size 225/45/17. Must run stock exhaust with muffler, stock air box with stock air filter, stock boost and stock RPM Unit. Must use OEM ECU. Maximum RPM 6500, Maximum boost 13.5 psi absolute.
Volkswagen GTI 2006 2.0 I	3.94	17.0	2650	Tires size 225/45/17. Must run stock exhaust with muffler, stock air box with stock air filter, stock boost and stock RPM Unit. Must use OEM ECU. Maximum RPM 6800, Maximum boost 12.0 psi absolute.