

# ***I-35 Speedway 2018 Pure Stock Rules***

Updated 11-30-17

This class is intended as an economical and/or an entry level Driver class. OEM means stock, unmodified, as designed by the manufacturer. Alterations or modifications not specifically allowed for in these rules will be considered a violation of these rules. Speedway officials will have the final word on all matters of the rules. Officials may restrict any car from competing at any time. I-35 Speedway reserves the right to change any rule at any time for the betterment or safety of the sport. Please also read the General Rules. All rules in ***BOLD Italic*** have been updated or clarified. In these rules: if it does not say you can do it, then you cannot do it.

***From time to time we receive request from competitors from other tracks to come compete in this class. Our intent is not to legislate out a competitor but instead to find a way to make cars competitive, so everyone may come and have fun. We welcome these occasional drivers who are not competing for points but instead want to try out another racetrack. USRA and IMCA Hobby Stocks are welcome at I-35 Speedway. They must meet their rule book including tires and must compete with a 6200-chip installed. Other area tracks may have minor differences such as weight and they will be allowed to compete under their home track rules. If there is a question regarding home track, it will be where the driver has competed in the most races for the year.***

## **1. BODY & FRAME**

- American made 1955 or newer RWD, front engine car, 101" minimum wheelbase.
- No sports cars allowed (Corvettes or any fiberglass bodied cars).
- All bodies must remain stock appearing and in stock location on the frame.
- All bodies must be steel OEM panels or steel OEM Replacement panels only. Sunroofs must be closed in using steel panel and welded.
- Body must match frame.
- 1970-1982 Camaro may be used but you must use a 2"x 2" sub-frame connector under the car only to connect front and rear sub-frames. You cannot under sling the rear end of the car. All rear suspension mounting points must remain in stock location.
- All frames must remain stock and unaltered. If rear frame rails are rusted and need repaired, you may cut the frame at a point no farther forward than the vertical center line of the rear end housing and replace them with 2"X 3" .095 rectangular tubing minimum.
- Rear firewall must be installed to close off trunk area from driver's compartment completely. You may use a minimum of .035 sheet aluminum or sheet steel.
- Front firewall must remain full and unaltered in any manner. All holes must be closed off with a minimum of .035" sheet aluminum or sheet steel. OEM floor pan may be replaced from OEM front firewall to OEM rear firewall using steel fabricated floor pan, 18-gauge or minimum .049" thickness. Securely welded to frame. Must remain flat, OEM appearing from frame rail to frame rail, no higher or lower than frame rail. Exception is maximum eight (8) inch tall driveshaft tunnel like OEM tunnel in size. There can be no gaps or holes between floor pan and body.
- All glass, chrome, exterior trim and fiberglass body parts must be removed.
- Gutting is allowed, you may gut the interior, hood, trunk lid, doors, and fenders for reasonable tire clearance, and under fuel cell for fuel escape. You may remove the trunk floor above the rear end and rear suspension area for inspection purposes. No aluminum hoods or trunks.
- Plastic nose pieces area allowed. No wedge noses.
- No spoilers or wings allowed. No open holes are allowed in hood.
- Fabricated front and rear bumpers allowed. Rounding hoops above and below rear bumper are allowed to help protect the fuel cell in trunk.
- Deck lids must be secured using quick release pins only (no nuts or bolts).
- All cars must have a minimum 5/16" chain on front and rear of car and easily accessible for towing purposes.
- Side skirts are permitted. Skirts must maintain five inches of ground clearance at the lowest point and not extend above the first body line on the doors and quarter panels.

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- All cars must be clearly marked with numbers on the driver's side, passenger side, roof, front, and rear. Side and roof numbers shall be a minimum of 18" tall and contrast car color. Front and rear numbers shall be a minimum 5" tall and contrast car color.

## **2. WEIGHT**

- Minimum car weight including driver is 3,000 pounds. Track scales are final.
- Any weight added to car must be attached by weight clamps and must be painted white with car number on it. Weight must be attached by a minimum of two ½" bolts or weight clamps. No bolts welded to bars or frames. Weight must be mounted inside the trunk; no weight can be mounted up high on roll cage or in the cockpit of the car.
- Any weight found lost on race track will result in a disqualification.

## **3. STEERING & CHASSIS**

- Must have original OEM suspension pieces and in stock locations with the following exception Tubular upper A-frame allowed but must be stock lengths only. G-Body can be 8" long on the right and 8 ½" long on the left.
- No weight jacks of any kind.
- No independent rear suspensions.
- Aftermarket trailing arms are allowed. However; any trailing arm used must be stock length with no offset bushings, and mounted in stock location. *Maximum height of trailing arm mounts are top 3 inches and 3.5 inches measured to center of bolts.* If using a 9" Ford rear end, all mounting pints must match all mounting pints on the rear end being removed. Rear trailing arm bushings must be rubber or Neoprene full size OEM type; they cannot be drilled out for softening or altered in any way. Same for front A-Arm bushings, no altering of any kind and they must remain OEM.
- Racing shocks are allowed. Shock must be in stock location and in stock mounts only. Only one shock per wheel is allowed. No Heim end shocks, no aluminum shocks, shock adapters that allow Heim end shocks to be mounted in stock location are not allowed. No adjustable or twist type adjustable shocks are allowed. No pressure adjustable shocks of any type are allowed. Shock mounts cannot be altered, cut, re-welded or changed in any way to mount shocks.
- Anyone caught altering shocks in any way will be disqualified for the night.
- Racing springs are okay. Springs must be mounted and tethered in stock OEM location, maximum of 13" rear springs on both sides. It is required to run the same length on both sides. No weight jacking device, or spring rubbers of any kind allowed.
- No adjustable lower blocks.
- Sway bar must remain stock, stock length bolts and spacer (same length) on both sides of the front end, if you choose to run one. It is not required to run a sway bar.
- No adjustable spring spacer on the front and rear. You may cut to fit on front only. If spacer blocks are used on the front springs they must be the same height and size left and right.

## **4. ROLL CAGE & DRIVER'S COMPARTMENT**

- A minimum of a six-point roll cage is required with a minimum of 3 driver's door bars and 2 passenger side door bars.
- The roll cage must be welded to the frame of the car. No set back cages are allowed. Main halo behind the driver cannot be further back than 44" from center of windshield to the front of halo behind the driver. No offset cages are allowed.
- Camaro's must weld the roll cage to a 6" X 6" X 3/16" steel plate. Plates must be fully welded to floor pan, then drilled and bolted to a 6" X 6" X 3/16" steel plate below the floor pan. Front and rear hoops are allowed. It is mandatory that the driver's side door bars be plated with 18-gauge steel. Roll cage must be fabricated from *minimum* 1.50" X .095 wall tubing. Roll cage can be no more than 2" behind the B-pillar. Driver seat may be no further back than rear edge of B-pillar.

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- 1982-1992 Camaros and Firebirds: must have a minimum 6-point cage and weld the roll cage to a 6" X 6" X 3/16" steel plate. Plates must be fully welded to floor pan, then drilled and bolted to a 6" x 6" x 3/16" steel plate below the floor pan. Front and rear hoops, and all down bars must be welded to steel plate and bolted in at least two places on all mounting points by at least two 3/8ths bolts. Front and rear hoops are required. Driver's door bars must be plated with 18-gauge steel from top door bar to bottom door bar and from rear of seat to 12" in front of seat. There must be a minimum of three bars in front of driver fabricated with a minimum 3/8" steel rod.
- Aluminum racing seats only. Seat must be bolted to roll cage only using no less than 3/8" grade eight bolts with flat washer's top and bottom of bolts with lock nuts.
- Five-point safety belts are mandatory. Safety belts must be bolted to the roll cage with a minimum of 3/8" grade eight bolts and lock nuts. Safety belt cannot be older than 3 years old. \*\*\*\*NOTE\*\*\*\* shoulder belts must be mounted to the crossbar behind the driver seat only on the roll cage. It cannot be mounted to any bar that goes toward the rear of the car.
- Ribbon or mesh type window nets required. Window nets must be mounted on the bottom with a release at the top. Window nets must be mounted to the roll cage only and must be bolted only, no rivets, pull ties, hose clamps, etc.
- A master on-off switch must be mounted behind the driver's seat and clearly marked with "ON" and "OFF".
- Steering column must be in stock location. Quick release steering wheel mandatory. Quick Steering reducers are allowed.
- Firewall must be stock no moving or straightening, and floor pan must remain original and all holes must be covered.

### **5. REAR END & DRIVESHAFT**

- OEM original type rear end in stock location is allowed.
- 9" Ford rear end allowed with drum or disc brakes. Floaters are allowed. No gun drilled axles. No aluminum except axle cap and drive flange.
- Gears may be locked, no limited slip. Spool must be steel.
- A steel driveshaft only is required. Driveshaft must be stock OEM only and painted white. A driveshaft loop is mandatory and must be fabricated from a min. of 1/4" X 2" steel strap around the driveshaft no further back than 6: from the back of the transmission.
- Lightened gears or center sections allowed.

### **6. BRAKES**

- OEM factory original type brakes only. Rear disc brakes are allowed. Rotors must be OEM replacement except for floaters, no aluminum. No light weight brake parts are allowed. Right front brake shut off, NOT ALLOWED. All four brakes must lock on inspection.
- Brake pressure residual valves are allowed.
- **Aftermarket pedals allowed. Brake bias allowed, front to rear only.**
- All brake parts, rotors, calipers, drums and all mounts must be steel. No aluminum allowed. Brake caliper pistons must be the same diameter left and right.

### **7. TIRES & WHEELS**

- Tires can be American Racer G-60 KK704 or Hoosier G60 Only and may be grooved, siped, and/or ground tires.
- Bead locks allowed on the right side only.
- No softening or conditioning of tires is allowed. All tires must meet a durometer of no less than fifty-five (55).
- No aluminum wheels. Minimum 1" OD lug nuts. Wheels must be 7" or 8" wide and made of steel. Wide-five adapters are prohibited.
- Spacer or wheel adaptor allowed, but cannot be more than one-inch total thickness.

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## **8. ELECTRICAL & IGNITION SYSTEMS**

- Battery may be moved and must be securely mounted. If in driver's compartment, it must be totally encased. Battery positive post must be covered.
- No voltage enhancing devices allowed.
- All wiring shall be neatly bundled and secured to chassis, all wires passing through holes shall have a rubber grommet to prevent wires from shorting to chassis ground.
- OEM HEI or OEM point distributor only with one stock 12-volt coil is allowed. No aftermarket performance parts allowed except for plug wires. Distributor, all parts and components must remain totally stock appearing (OEM) inside and out.
- No timing retard, voltage reduction, or traction control devices of any kind allowed.

## **9. FUEL SYSTEMS**

- Fuel cells are mandatory. Fuel cells must be encased in an approved metal container of no less than 20-gauge steel. Fuel cell must be mounted in the trunk area of car only using a minimum of two 1 ½" X 1/8" steel straps wrapped completely around cell and mounted to chassis of the car. Bottom of fuel cell must be set in car no lower than bottom of frame rail.
- Fuel lines may be routed in one of two ways:
  - Under the car and kept above the bottom of the frame rails.
  - Run through the interior of the car but must be run through a steel tube.
- All fuel pumps shall be mechanically driven and bolt directly to engine block in stock location.
- No electric, belt drive, or rear drive fuel pumps allowed.
- No pressurized fuel systems allowed.
- No fuel additives including scents of any kind are allowed.
- Pump gas only. Not to exceed 92 octane. NO blending of fuels.
- No 110-racing fuel allowed. No E-85 or E-98 allowed.

## **10. CARBURETOR**

- 4412 Carburetor only. Must be stock and pass a go no go gauge. No altering of booster cluster. Throttle shaft must remain stock and must not be thinned or cut in any manner. Stock throttle plates and screws, must not be thinned, cut or tapered. Maximum throttle bore 1 11/16" and maximum venture bore 1 3/8". No modification of carburetor. No boring or polishing of throttle or venture bore allowed. No Performance Carbs. Carburetor is subject to claim. The track has the right to exchange your carburetor with a new one. You can use carburetor adapter, Mr. Gasket part #1933 or #1929 or Transdapt #2087. ***You may also use a Billet or Phenolic adapter; all adapters must remain unaltered with straight through holes, no machining, no tapered. Total maximum thickness of the spacer and gaskets cannot exceed, 1 and 3/16" inches.***

## **11. INTAKE**

- Stock cast iron OEM Quadra jet or 2-barrel intakes. NO OEM Performance intakes are allowed.
- The following aluminum intakes are allowed: GM – Edelbrock #2101, 2701, or 3701, Star Performance #9101, or Renegade #72001, Ford – 2121 or 2181d, and Chrysler – 2176 or 3776.
- No porting or polishing. No gasket matching. Unaltered only.

## **12. ENGINE**

The intentions of the engine rules in this class is to use as many OEM Parts as possible to help keep the cost of these engines down and affordable. This class is an economical class and we at I-35 Speedway will do our best to NOT let this class's rules get out of hand by allowing rules to creep and change. Please understand as we see issues with parts that fail, we may adjust these rules as needed. These changes will be for durability, not performance. In these rules the term OEM means Original Equipment Manufacturer. When the work OEM is used, it is referring to

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likeness, fit, function and visual comparison to OEM parts, and not the OEM determination of an aftermarket manufacture building replacement parts. Before using aftermarket parts, claiming to be OEM, please read the rules and make sure those parts meet these rules. If you are not sure please call and ask for clarification before installing them. Just because it says OEM equivalent or replacement does not mean it is a legal part.

- A V-8 engine and OEM size configuration are mandatory. 360 cubic inch is the maximum.
- No stroked motors. NO Crate Engines allowed.
- Engine must remain in stock location, no moving motor back or down or up, same brand as car GM to GM, Ford to Ford. Motor mounts in stock locations only.

### **12-1 SIZE Cubic Inch**

- Maximum size of engine block: 350 GM .060 max./ 351 Windsor Ford .060 max/ 360 Chrysler .060 max.
- Harmonic balancer on GM minimum 6 ¾".
- No stroked engines allowed.
- **OEM firing orders cannot be changed.**
- 9 to 1 compression max.

### **12-2 HEADS**

- Steel only. Must be unaltered. No porting or polishing allowed.
- Approved OEM and minimum 76 cc combustion chamber (GM). Only GM OEM approved head numbers are: 14079267, 3986336, 3986339, 3986339X, 3986388, 3932441, 376445, 3928454, 3932454, 3876487, 3973487, 3973487X, 3973493, 3951598, 468642, 330862, 333882, 3998920, 3998991, 3998993, 3998997, 3970126.
- Maximum size valves on these heads are 2.02-inch intake and 1.60-inch exhaust. May use Stock replacement (SR) cylinder heads: Engine Quest (EQ) GM part number CH350I, (EQ) Chrysler part number CH318B, World Products Ford part number 53030 – 1.250 inch (± .015 tolerance) maximum O.D. valve springs. All SR heads must remain as produced, seat angles and valve sizes cannot be changed: three angle valve job only (absolutely no casting removal in valve pocket of EQ or World Products head, for any reason); Ford – no SVO heads: Chrysler – no W-2 heads, 360 cubic inch heads only. No porting, polishing or unapproved alterations allowed to any cylinder head or intake. Stock rocker arms or steel roller tip rocker arms are allowed. 1.5 stock ratio must be maintained. Poly-lock nuts are allowed, screw in shoulder rocker studs are allowed, guide plates are allowed. Head Combustion Chambers can be no smaller 76-cc. Any Factory OEM Performance head is not allowed.

### **12-3 CAMSHAFT**

- Lifter bores cannot be altered.
- All camshafts should be OEM only and stock. Camshaft can have no more than .288" lift at the camshaft and no more than .430" lift at the valve maximum. Manufactures numbers must remain on the cam for identification. Any numbers changed, altered or removed on the cam will result in a Disqualification. No roller cams, no solid cams, hydraulic cams only. No anti-pump up lifters.

### **12-4 CRANKSHAFT & RODS**

- Stock appearing OEM only. There can be NO holes in the second or third rod throws. Exception is the first and fourth rod throw may have a hole in it. No light weight I-beam rods. NO H-Beam rods allowed. 3.48 stroke max on G.M. and 3.50 on Ford.

### **12-5 PISTONS**

- Any flat top or dish piston allowed. NO domed pistons, lightweight pistons, or gas ported pistons are not allowed. Aluminum radiators allowed.

### **12-6 FORD**

- Base engines will be 289, 302, & 351 (Windsor).

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- Max. valve size: 1.84 intake and 1.60 exhaust
- 456 max. lift at valve.
- No angle milling of cylinder heads.
- No GT 40 or GT 40p head castings.
- No aluminum heads.
- No High performance, No Boss.
- Max. CID 362.
- Stroke must match block.

### **12-7 EXHAUST**

● Cast iron exhaust manifolds or headers allowed. All exhaust must run between frame rails. No fender exit or over the frame headers. Maximum tube diameter is 1-5/8ths inch. No step headers allowed. Exhaust must extend past firewall and turn toward ground. Must remain dual exhaust, no crossover or 'y' pipes. No pan evac systems, exhaust sensors, coatings or wrap.

### **13. TRANSMISSION**

- Must be unaltered OEM, with unaltered OEM pump, original bellhousing and minimum 10-inch diameter.
- Torque converter containing a minimum of three quarts of fluid.
- Torque converter must have a minimum 0.125-inch plug. Flex plate must be full, unaltered OEM, or OEM replacement.
- No bump starts allowed.
- Must have approved scatter shield constructed of minimum 0.125 inch by three-inch steel, 270 degrees around flexplate.

### **13-1 STANDARD TRANSMISSION**

- Unaltered 3 or 4 speed in OEM production case. No 5 or more speeds.
- Must have all working gears, reverse, and natural positions.
- Functioning shift levers in stock locations.
- Steel OEM style/size flywheels, no aluminum no billet flywheels. Bolted directly to the end of the crankshaft.
- Flywheel must weigh 15 lbs. minimum.
- Clutch must be 10.4" minimum, full face clutch, No puck clutches or Ceramic clutches. Stock appearing pressure plates only. Stock spring type disc or Solid Disc clutch is allowed, clutch assembly must weight 15 lbs. No dog clutches.
- Stock clutch assembly inside an explosion proof bell housing covering 270 degrees around top of clutch and flywheel.

### **14. SAFETY**

- A Master ignition kill switch boldly marked "ON & OFF" must be connected to the battery and located directly behind the driver's seat. Also, an ignition kill can be used and in easy reach of the driver.
- Helmets are required and must be a MINIMUM of SA2010 with certification label inside helmet.
- Helmets must be worn at all times car is on the track and must be provided for inspection.
- Roll bar padding (fire retardant recommended) on all roll bars within the reach of the driver's head must be covered with roll bar padding.
- SFI approved full fire suits of a flame-retardant nature must be worn by all competitors. Nomex underwear highly recommended. Fire-retardant gloves and fire-retardant shoes are required.
- Minimum 5-point safety belts, sub belt, and shoulder harness required and securely mounted as prescribed by manufacturer. Excess belt must be secured. Seat belts and shoulder harness cannot be more than three years old.

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- Aluminum seat only, must be bolted in using minimum 0.375 inch bolts with oversize washers to keep bolt from pulling through seat (fender washers). Head and shoulder supports are highly recommended. Bottom of seat can be no lower than the bottom of the frame rail.
- All cars must have an approved rib or mesh window net on driver side of car.
- It is recommended that cars be equipped with a fully charged Halon On-Board Fire Suppression System.
  
- Steel drive shafts and yokes only allowed. Drive shaft must be painted white. Rear springs must be cable or rope tethered so that they do not come out of a car. Cable must be 1/8" minimum diameter or rope must be 3/8" minimum diameter. Roof escape hatch approved provided it is closed and latched during racing.

### **15. TEAR DOWN RULES**

I-35 Speedway OFFICIALS MAY REQUIRE A TEAR DOWN FOR INSPECTION AT ANY TIME. This tear down rule is in place to keep engines in this class as economical and affordable as possible. In addition, a complete full car Tech inspection can be done at any time. If this is down, anything found illegal on the car will result in a disqualification for the night, a loss of all points for the night, and a \$250 fine.

### **16. EXCHANGE RULES**

- Only parts eligible for exchange are the shocks (all four) and carburetor, \$150 to exchange.
- Drivers eligible to exchange must be on the lead lap of the A-Feature. If there are two drivers exchanging the same car after the feature event, the first driver making the exchange will receive the exchange.
- Exchanging driver must walk to the Tech Area immediately following the A-Feature event. Do not drive into Tech area unless in the top 4. He/She then has ten (10) minutes to make the exchange after the drop of the checkered flag. The exchange must be written out, state what is being exchanged, signed by the initiating exchange driver and have the money (cash only) for the exchange with it.
- Exchanging driver can only exchange a total of up to one (1) time per racing season. Driver being exchanged can be exchanged up to two (2) times per racing season. Any driver refusing the exchange will be disqualified for the night. They will not receive any points or pay earned that night. Any Driver refusing a second exchange during a racing season will be disqualified for the night, they will not receive any points or pay earned that night, and will lose all points earned for the year. Exchanged parts must be run the following week on the driver's car initiating the exchange.
- Top 5 in points cannot utilize exchange rule with someone ahead of them in points.

**OEM: Does NOT mean High Performance, No OEM High Performance parts allowed.**

IMPORTANT NOTE: COMPETITIVE RACING CAN RESULT IN INJURY AND/OR DEATH TO THE PARTICIPANT. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS. The rules and regulations are intended as guides for the conduct of the sport. They are in no way a guarantee against injury or death to a participant, spectator, officials, or other.