

ADAMS COUNTY SPEEDWAY
Corning, Iowa

2012 HOBBY STOCK RULES & SPECIFICATIONS
(changes from prior year are **bold and underlined**)

FRAME

Any American OEM full body rear wheel drive passenger car, 1964 or newer, full frame or unibody.

Frame must match body.

Minimum 107.5 inch wheelbase, maximum one inch difference from side to side. Rear of frame behind rear tires, no further forward than one inch behind factory seam, may be replaced in OEM location with two inch by three inch steel tubing with min. 0.095, max. 0.125 inch wall thickness, same length as material removed. Factory seam must remain visible. Unibodies must tie rear frame to front frame. Frames may be "X" braced. No Station Wagons, Camaros, Firebirds, or Mustangs.

ROLL CAGE

Main cage must consist of continuous hoops, minimum 1.75 inch O.D. tubing, with wall thickness of at least 0.095 inch, low carbon or mild steel recommended. Four-post roll cage required, front down bars and rear hoop must be welded to OEM frame.

Driver's head must not protrude outside cage with helmet on.

Rear hoop must have "X" brace, consisting of one full horizontal and one full diagonal bar, minimum 1.25 inch O.D. with 0.083 inch wall thickness. Front down bars must be tied together, passenger side front down bars must be maximum 11 inches in from top of door. Must be minimum 40 inches between front and rear down bars at top of door panel. Maximum 41 inches from top center of windshield to front edge of rear hoop; maximum 13 inches to front edge of top halo.

Top halo must be minimum 40 inches across, outside to outside.

Rear hoop may be maximum 12 inches in from bottom of opera window. Minimum one cross bar in top halo. May have maximum two horizontal bars, (in addition to bar tying front frame horns together) for radiator protection; must be behind bumper, within confines of body, no wider than OEM frame horns.

Rear kickers (down bars) required, and must be minimum 1.25 inch O.D. tubing with 0.083 inch wall thickness. Fuel cell protection required must be mounted frame rail to frame rail, no higher than fuel cell, inside trunk area with maximum 1.75 inch O.D. tubing.

All tubing will be limited to .125 wall thickness.

All bars must be inside body.

DOOR BARS

All door bars and uprights must be minimum 1.75 inch O.D. with 0.095 inch wall thickness.

Minimum three door bars, both sides, parallel to ground, and perpendicular to driver. Minimum four uprights tied from frame to top door bar on driver side, and minimum three uprights on passenger side. Steel door plates, 18 gauge or 0.049 inch minimum thickness, must be securely welded to outside of door bars on driver's side. Plate must cover area from top door bar to rocker panel and from rear down post to five inches in front of seat. Must be visible for inspection.

BODY

All bodies must be unaltered OEM, or OEM replacement, in OEM location and match frame.

Front body mounts must be visible.

Sunroofs and T-tops must be enclosed.

Aftermarket plastic nose piece allowed, recommended to match body.

No spoilers, hood scoops, ground effects or skirting altering OEM appearance.

OEM STEEL hood only, engine hood may be gutted.

OEM STEEL trunk lids only, no gutting.

Hood and trunk must be securely fastened and back of hood must be sealed off from driver compartment with metal.

Hood must be separate from fenders.

Front inner wheel wells may be removed; rear wheel wells may be removed to middle seam.

Trunk floor directly over rear end housing must be removed.

All glass must be removed, all windows in body must remain open; maximum seven inch metal sun visor allowed across top of windshield opening.

All doors must be securely fastened.

Fenders and quarter panels may be trimmed for tire clearance, ONLY.

1 No reflective body panels.

2
3 **DRIVER COMPARTMENT**

4 Minimum four windshield bars in front of driver.

5 Aluminum high-back seat only and must be bolted in, using minimum 0.375 inch bolts.

6 Driver seat may be no further back than rear edge of B-pillar. Driver must be sealed off from track, driveline, engine
7 and fuel cell.

8 Dash not to extend more than 24 inches back from center of lower windshield opening except for cowl in front of
9 driver. No other interior tin or covers. Inside rear quarter panels, below window level, may be cut out. Doors may be
10 gutted. No cutting out of firewalls, roof, floor, kick panels, rocker panels, except for roll cage clearance. All holes in
11 firewalls and floor must be covered with metal. Rear firewall and speaker deck must be metal and be of OEM design
12 for that make and model.

13 No mirrors of any kind.

14 Fuel line in drivers' compartment must in a pipe or conduit and be painted red and have the word FUEL on it.

15
16 **FRONT SUSPENSION**

17 All components and mounts must be steel, unaltered OEM, in OEM location and match frame.

18 OEM rubber lower A-frame bushings only.

19 No aftermarket ball joints.

20 No sway bars, spring spacers, chains or cables. Exceptions are: for 1978-1987 GM mid-sized metric frame, OEM
21 upper A-frame may be replaced using aftermarket upper A-frame (steel or aluminum cross shaft allowed), must
22 display "IMCA approved" decal on top of rear tube of A-frame; bolt on spindle savers allowed. Upper A-frame mount
23 must remain OEM and cannot be moved.

24
25 **STEERING**

26 All components must be steel unaltered OEM, in OEM location and match frame. OEM steering column may be
27 replaced with steel steering shafts (collapsible steering shaft recommended).

28 Steel knuckles only.

29 No steering quickeners or remote power steering reservoirs.

30 Steering wheel and quick release (required) may be aluminum.

31
32 **SHOCKS**

33 One unaltered steel, nonadjustable, OEM-mount shock in OEM location per wheel.

34 No coil-over shocks, air shocks, remote reservoir shocks.

35 No Schrader or bladder type valve allowed.

36 No coil-over eliminators.

37 Rear OEM shock location is 4.5 inches from bottom of housing to center of bolt hole, and centered on control arm
38 bracket.

39 \$50 claim and swap on any shock. Refer to General Rules for complete shock claim procedure. One or all shocks on
40 car may be claimed per event, counting as one claim, following shock claim procedures and penalties as outlined in
41 General Rules.

42
43 **SPRINGS**

44 One steel spring per wheel only in OEM location. All coil springs must be minimum 4.5 inches O.D. and non-
45 progressive.

46 NO SPRING SPACERS ALLOWED.

47 Spring Rubbers Allowed.

48 Top of spring buckets may be rebuilt with a steel plate, but must be equal size (thickness) on both sides of car and
49 must be welded in place.

50
51 **REAR SUSPENSION**

52 All components and mounts must be steel, unaltered, OEM, in OEM location and match frame.

53 OEM rubber control arm bushings only. No steel, neoprene or offset bushing allowed.

54 Trailing arms must be OEM. No altering of trailing arms allowed.

55 Center of rear lower control arm bolt hole must be 2.25 to 2.5 inches from bottom of housing.

56 No independent rear suspension. No sway bars, panhard bars, spring spacers, chains or cables.

57
58 **REAR END**

59 No floater rear ends.

- 1 Replacement solid steel racing axles only.
- 2 Nine inch Ford rear end allowed, but must be mounted like OEM rear end (centered) for that make and model.
- 3 One inch inspection hole in housing required.
- 4 No lightened ring gears. Must be welded spider gears, or mini spool.
- 5 No torque dividing differentials.

6

7 **BUMPERS / RUB RAILS**

- 8 Rear bumpers must be approved OEM in OEM location.
- 9 Manufactured tubular bumpers, minimum .095 thickness are allowed on front of car only.
- 10 One bumper allowed on front and rear. No stacking bumpers allowed on rear.
- 11 Bumpers must be capped to fender with steel, welded or bolted. Maximum one inch wide by two inch tall steel or lexan rub rails allowed - bolted flush to body.
- 12 Front and rear tow hooks mandatory.
- 13 No sharp edges allowed on bumpers, rub rails or bolts.
- 14 No bars past outside edge of body other than rub rails.

16

17 **TIRES & WHEELS**

- 18 OEM 205/75, or 205/70, 14 inch or 15 inch passenger car tires only.
- 19 All four tires and wheels must be same size.
- 20 Tires must be inside body. No racing, snow, or all-terrain tires.
- 21 No softening, conditioning, siping or grooving.
- 22 Bead lock allowed on right rear only.
- 23 One inch O.D. steel lug nuts required. No bleeder valves.
- 24 Maximum seven inches wide, three to four inch offset, unaltered, D.O.T.-stamped steel wheels with standard bead bump - must weigh minimum 21 pounds. ~~Offset will not be enforced until July 1, 2011.~~
- 25 No wheel spacers.

27

28 **BRAKES**

- 29 Steel, unaltered OEM, or unaltered OEM replacement (No aluminum brake drums), operative four wheel, disc(front) and drum(rear) brakes, must match frame or rear end.
- 30 Full OEM or OEM replacement backing plates, no aftermarket backing plates allowed.
- 31 Master cylinder must be in OEM location.
- 32 No antilock brake systems.
- 33 No aftermarket brake pedal assemblies, brake shut-off or bias adjuster.
- 34 Steel brake lines only, must be visible.
- 35 Hubs/rotors, axle flanges and drums may be changed to different bolt pattern and larger studs.

37

38 **EXHAUST**

- 39 OEM cast iron exhaust manifolds only.
- 40 No center dump type manifolds.
- 41 Exhaust must extend past firewall and turn towards ground.
- 42 Maximum two and one half inch O.D. exhaust pipes.
- 43 Must remain dual exhaust, no crossover or 'Y' pipes. No exhaust sensors. Mufflers recommended.

44

45 **FUEL SYSTEM**

- 46 Mechanical OEM type push rod fuel pumps only.
- 47 Unaltered OEM two barrel carburetor for that engine, except: booster I.D. may be machined to 0.25 inch and venturi I.D. machined to 1.375 inch on Rochester carburetor.
- 48 Must remove carburetor choke plate.
- 49 No carburetor spacers.
- 50 One 0.25 inch (maximum) thickness gasket only.
- 51 \$50 cash claim plus swap on carburetor, following carburetor claim procedures and penalties Refer to General Rules for complete claim/swap rules.
- 52 Air cleaner top/stud cannot direct air into carburetor.
- 53 No top flow air cleaner housings, cold air boxes or air cleaner duct work.
- 54 Maximum 22 gallon racing fuel cell required and must be in a steel container with a minimum thickness of 20 gauge and maximum thickness of .125 inch. Must be securely fastened in trunk above level of OEM trunk floor, behind rear tires, no further forward than factory seam where rear frame rail can be replaced, with minimum of two solid steel straps around entire cell, two inches wide and .125 inch thick only.

59

- 1 No fuel cells allowed over rear end housing.
- 2 Metal firewall must be between driver and fuel cell.
- 3 All cell mounts must be steel, securely welded to frame/cage.
- 4 No adjustable fuel cell mounts.
- 5 No vented fuel caps.
- 6 Fuel cell vents must have check valves. If fuel cell does not have aircraft style positive seal filler neck/cap system - a
- 7 flapper, spring or ball type filler rollover valve is required.
- 8 One fuel filter only, cannot be in driver's compartment.
- 9 No cool cans.

10

11 **FUEL**

- 12 Gasoline only. Racing fuel and E-85 allowed.
- 13 No performance enhancing or scented additives.
- 14 Fuel must pass both dielectric meter and chemical tests.

15

16 **WEIGHT**

- 17 No ballast allowed. Any item deemed by officials as ballast will be required to be replaced or removed. I.e. fuel cell
- 18 straps, fuel cell cans, battery boxes, rear support bars etc.
- 19 No titanium, magnesium or carbon fiber products.
- 20 No gun-drilled, tubular, hollow bolts or studs.
- 21 Steel fasteners only.

22

23 **BATTERY / STARTER**

- 24 One 12 volt passenger car battery only, must be securely mounted between and above frame rails, and positive
- 25 terminal must be covered.
- 26 Battery must be in Marine type case if mounted in driver compartment.
- 27 Starter must bolt in OEM location.
- 28 Car must have capability of starting without being pushed or pulled.
- 29 Car must leave initial staging area on demand, unaided, or go to rear of that race.
- 30 Battery disconnect switch required within reach of the driver and 12" of gear shift levers and clearly marked "OFF"
- 31 and "ON".

32

33 **GAUGES / ELECTRONICS**

- 34 No unapproved cameras, transmitting or listening devices except the required Raceceiver radio.
- 35 No timing retard controls, or digital gauges (including tach).
- 36 No electronic monitoring computer devices capable of storing or transmitting information except analog tach.
- 37 No ignition control boxes. OEM ignition only. All ignition rotors, caps, coils and modules must remain OEM-appearing.
- 38 No alternators.
- 39 No electronic traction control devices

40

41 **TRANSMISSION & DRIVE SHAFT**

- 42 All forward and reverse gears must be operational. Three speeds will have three forward gears, and a four speed will
- 43 have four working forward gears.
- 44 Manual: Must be unaltered OEM three or four speed, with minimum 10.5 inch steel/organic single disc-type clutch
- 45 and steel pressure plate assembly inside an explosion-proof steel bellhousing - minimum 270 degrees around top of
- 46 clutch and flywheel area.
- 47 No lightweight bellhousings.
- 48 No hydraulic clutch release bearing.
- 49 Steel unaltered flywheel only - 16 pound minimum.
- 50 Automatic: Must be unaltered OEM, with unaltered OEM pump, original bellhousing and minimum 10 inch diameter
- 51 torque converter containing a minimum of three quarts of fluid - \$150 fine if illegal.
- 52 Torque converter must have a minimum 0.125 inch plug.
- 53 Must have approved scatter shield constructed of minimum 0.125 inch by three inch steel, 270 degrees around
- 54 flexplate.
- 55 Flexplate must be full, unaltered OEM, or OEM replacement.
- 56 No manual bump starts allowed.
- 57 Drive shaft: Steel drive shaft (minimum 2.5 inch diameter) and slip-yokes only.
- 58 Drive shaft must be painted white. 360-degree driveshaft loop required and must be constructed of minimum 0.25
- 59 inch by two inch solid steel, or one inch tubing, mounted six inches back from front U-joint.

Rear chain required at rear of driveshaft.

ENGINE COMPARTMENT

Engine must be in OEM location.

On GM metric frame, center of fuel pump must be located minimum 1.75 inches in front of cross member (measured at frame).

Ford metric frames must have back of fuel pump in front of cross member.

Frame and cross member may not be altered for engine placement.

Engine mount holes cannot be removed or altered on block.

Aftermarket steel engine mounts allowed.

No mid-plate allowed.

Engine must be OEM appearing, must be able to be used in conventional passenger car without alteration. GM with GM, Ford with Ford, Chrysler with Chrysler.

Minimum two-core radiator must be mounted in front of engine. Overflow tubes must be directed to ground.

Steel or aluminum V-belt pulleys only.

No electric fans.

ENGINE SPECIFICATIONS

Any American make engine allowed.

Steel heads, block and oil pan only.

OEM passenger vehicle production block only.

No GM Bowtie, Ford SVO or Chrysler W blocks.

GM approved block numbers are: 3892657, 3914660, 3914678, 3932388, 3932386, 3956618, 3970000, 3970006, 3970010, 3970014, 10066033, 10066036, 10243880, 14010207, 14010209, 14010287, 14016376, 14016379, 10054727, 14088528, 14088548, 14088552, 14093638, 14101148.

Stroke must match block.

No 400 or larger cubic inch parts allowed.

Maximum 361 cubic inches (GM/AMC); 364 cubic inches (Ford); 370 cubic inches (Mopar).

Maximum compression ratio is 9.0 to 1, no tolerance. Compression ratio checked using Whistler and cubic inches checked using pump, OR by visual inspection, such as part/casting numbers and flat top or dish pistons (track option which method is used).

Flat top or dish pistons only, no gas ported pistons.

Cylinder heads must be unaltered approved OEM and minimum 76 cc combustion chamber.

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 or may use Engine Quest (EQ) Stock Replacement (SR) cylinder head, part number CH350I, head must remain as produced, valve sizes can not be changed; Ford - no after market or SVO heads; Chrysler - no after market or W-2 heads, 360 cubic inch heads only. No porting, polishing or alterations of any kind to heads or intake, disqualification and \$250 fine if illegal.

Must use unaltered OEM cast iron two barrel intake or unaltered (no porting or polishing) aftermarket aluminum intakes allowed are: Weiland GM #7547, #7547-1; Ford #7515, #8023 or #7516; Chrysler #7545; Edelbrock GM #2701; Ford #7121, #7181, #7183; Chrysler #2915. No hi-rise or marine intake manifolds.

Flat tappet cam/lifters only. No mushroom lifters. Cannot alter lifter bores.

OEM non-roller rocker arms only. No beehive valve springs allowed. Guide plates and screw-in shouldered studs (0.375 inch max) allowed.

No stud girdles. Steel roller tip rocker arms allowed. Poly locks allowed.

Unaltered OEM type harmonic balancer only.

OEM firing order cannot be changed.

OEM type steel or aluminum water pumps only. 'Wet' sump oiling system only.

Racing oil pans allowed.

Accumulator allowed, must be mounted under hood.

For 2013 season a one inch inspection hole will be required in the oil pan and crankshaft must be stock OEM.

Crate Engine Option

Must use unaltered sealed GM #88958602 or #19258602 crate engine. Upon inspection, any different, altered or missing GM seal bolts will result in disqualification, loss of all points for the season, \$1,000 fine and one year

1 suspension. GM seal bolt exception is an ACS approved and issued cable-lock rebuild system, and oil pan may be
2 replaced with Kevko pan #1087NRHw/ISP and Kevko pick-up #1003-1 3/4. \$250 fine for any crate engine not using
3 required spacer, distributor, rev limiter, pushrods, valve springs or rocker arms. Any driver using crate engine cannot
4 claim engine or have engine claimed. During same season, no driver is allowed to claim an engine after competing
5 with a crate. If a driver switches to a crate after claiming or attempting to claim an engine, the crate engine is then
6 claimable.