

PASS Northwest

Rules and Regulations

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DEFINITIONS

Competitor: A driver, car owner, crew member or other person who participates competitively in a PASS event.

Disqualified: The car and any Competitor affiliated with it will be treated as if it did not start the race, thus forfeiting any monies, awards, and championship points it may have otherwise been entitled to.

Event: A PASS-sanctioned motorsports event, which includes the designated race as well as all periods of registration, inspections, time trials, qualifying races, practice sessions, post-race inspections and possible related rain or postponed dates.

PASS: Pro All Stars Series

Official: Appointed by the PASS to officiate as an employee or independent contractor at the event.

Promoter: The entity that, in connection with the event, is responsible for the promotion of the event, as named on the Official Entry Blank.

Series Driver/Team: Any driver or team that competes in an event sanctioned by the PASS.
Tour Driver/Team: Any driver or team that competed in any PASS events.

10.0 Section 10 - Building Rules

Notice: All model, engine, or equipment changes or modifications not governed by the PASS must be submitted for consideration of approval, not less than 30 days prior to the date of intended usage in PASS competition. Equipment will not be considered as having been approved by reason of having passed through inspection unobserved.

NOTE: ANY ITEMS NOT DESCRIBED AS ALLOWED IN THESE RULES SHOULD BE DETERMINED AS ILLEGAL UNLESS PASS ISSUES A BULLETIN EXPRESSING OTHERWISE.

10.1 Points, purse money and series sponsor awards will be awarded to all Tour teams that conform to Section 10.1.1, unless otherwise specified in specific program rules.

10.1.1 All cars must keep the front fenders and upper windshield clear of lettering. The space will be used to display logos for PASS sponsors.

10.2 All Tour cars competing for season points (registered team & driver) must use Five Star, ARP, or other ABC bodies that conform to ABC and PASS measurements. Note: PASS may grant permission for registered teams to compete with non ABC Bodies in limited events with

prior request to PASS Technical Director. Templates will be used. All bodies must be kept neat in appearance.

10.2.1 The following bodies are approved for competition. See the Template Instructions Guideline included for heights and measurements.

DOWNLOAD THE ***BODY DIAGRAM*** as a Word Document [***HERE***](#)

ABC: Monte Carlo-Impala, Fusion, Charger, Camry (Toyota)

Chevrolet - Camaro, Lumina, Monte Carlo, Impala

Buick - Regal

Oldsmobile - Cutlass

Pontiac - Firebird, Grand Prix

Ford - Thunderbird, Taurus, Fusion, Mustang

Dodge - Intrepid, Charger

Toyota - Camry

10.3 General Car Body Requirements

- a. Cars must be neat appearing and have complete bodies. No altering of bodies or body style permitted without PASS approval. That is, all body panels installed must match the brand of car, which is indicated on the front of the car.
- b. Full 1/8" Lexan type windshields must be used. Windshield must have at least 2 internal braces of 3/8" square tubing 4" apart and roughly centered in windshield. Windshield must be mounted solid and braces welded to the roll cage.
- c. Full rear windows are mandatory. Must be 1/8" Lexan type, mounted securely, and braced to prevent any collapsing.
- d. Rear quarter panel windows may be used.
- e. Side windows are permitted and may use up to 1/3 of the opening between the "A" post and "B" post area but must stick out side of the body more than 1".
- f. Minimum ground clearance for the front spoiler/ air dam shall be 3 1/2" with driver.
- g. Rear spoiler shall not exceed 6 1/2" (ABC bodies), 6" (Thunderbird), & 5" (Other bodies) in overall or surface height. The spoiler shall not exceed 60" width and must be mounted at the rear bumper cover. No side bracing or boxing permitted. The maximum height of the top of the spoiler to the ground shall be 38". ABC bodies 41 1/2". Spoilers must be centered on rear bumper cover within 1".
- h. The hood must have positive pull pin type fasteners with 4 pin fasteners on leading edge. The rear deck lid can be hinged, pinned, or riveted to the body.
- i. The rear window height at the top may not drop more than 1" from center to either side.
- j. The roof may have a maximum 3" drop, as measured from a point 12" back from the windshield to the rear window.

k. Rocker panels must be a minimum of 3 1/2" from the ground with driver.

l. Front and rear bumper covers must remain as manufactured. NO Modifications permitted! Only trimming permitted is for wheel clearance and grill opening. Minimum lower edge wrap measurement permitted will be 54 inches as measured from the center seam to fender opening measured at lower leading edge of nose panel. NO "shapeing" or contour modifications of panels permitted in any way. Maximum Nose side to side width at tire may not exceed 83 inches.

m. No carbon fiber body parts allowed.

n. No rub rails or outside body bracing allowed. A 1" x 1/4" aluminum flat bar is allowed on the outside of the door but must be mounted solid on each end with no sharp edges.

o. No dirt style front header or rear bumper sections allowed.

p. The deck lid must not be more than 1" lower than rear quarter heights in any area.

q. Dimensions for body heights "A" and "I" must be no more than 16" difference in drop.

r. All body panels must connect in stock locations, without alteration.

s. Right Side deck (A & B post to outside of body) maximum of 5". Exceeding 5" but less than 7" require a 25 lb. weight penalty. Left side deck (A & B post to outside of body) maximum of 3".

t. Roof "X" dimension (a point on A post to opposite outer edge of rear spoiler) shall not exceed 3" difference. Exceeding 3" but less than 6" require a 25 lb. weight penalty.

u. Downforce Bodies are allowed with 100 lb. weight penalty but must not be altered from Mfg specs except as allowed on PASS Downforce Body Dimension sheet. Note: Weight penalties may be changed and posted on Tech. Board at any event.

v. Pre Non ABC bodies (not to include downforce) are allowed with 25 lb. weight penalty. Must adhere to measurements as listed in body dimension sheet listed previously.

w. "ABC" Fivestar & ARP bodies must fit templates with 1/2" and maintain dimensions in diagram for "ABC" Dimension Guidelines page.

x. No "panning" or "boxing" permitted. No air deflecting devices permitted of any kind.

y. PASS reserves the right to add weight accordingly to non conforming body measurements. Weights will be determined by PASS officials and are non negotiable.

10.4 Car Weight

Cars must be race ready with driver, full of fuel, water and oil.

a. Base weight: 58% left side percentage. Straight rail or perimeter– ABC body

Car weights listed by engine option

2800 lbs.:

Northwest Brodix Spec head engine

GM 18 degree/ Ford std valve angle 9-1 compression engines with use of altered or unaltered booster Holley #6895 or #80507 390 cfm carburetor.

Pro Cup Engine with use of unaltered Holley 600 hp carburetor.

Southern steel head high compression (14 -1 compression maximum)

Sunbelt series approved engine

McGunegill, Hamner , Progressive and Dorton spec engines

2775bs.:

Gm 23 degree 9-1 compression engine with use of either altered or unaltered booster Holley #6895 or #80507 390 cfm. carburetor.

Northern steel head engine option(11-1 max compression-flat tappet camshaft) with use of maximum 750 cfm. Holley carburetor.

2750 lbs.:

GM 604 400 fast burn sealed crate engine with Rocker 1.6 ,Balancer and oil pan change wet sump only, with Holley 650 cfm. Carburetor.

McGunegill LM425 engine option unaltered with use of Holley 650 cfm. carburetor.

2700 lbs.:

GM 604 400 fast burn sealed crate engine with 650 cfm. carburetor.

b. Added weights:

Non ABC body (except Downforce) I.E. "99" type – Add 25 lbs

Downforce body – Add 100 lbs.

Engine set back beyond listed location – Add 25 lbs. per inch.

Any other available engine options must be approved by PASS. Contact series technical director for further information and eligibility.

Note: Weights requirements may be adjusted by PASS to equalize competition.

Maximum left side percentage must not be exceeded before, during, or after each race event.

10.4.1 Added Car Weight

a. Added weight must be securely bolted in place. Dislodged weight can not be returned to car for weighing after the race. No ballast adjustment devices permitted on car. Weight transfer devices of any type may not be activated by the driver. All Ballast MUST be painted white and have car number clearly marked. Any competitor that has ballast that becomes dislodged WILL have ballast in question confiscated and will be subject to a fine to be determined by series officials.

10.4.2 Car Weights Post Competition

a. When cars are weighed after competition, only water, oil and gas may be added to verify total weight requirement is maintained if necessary. Left side maximum weight % must be maintained before, during, & after each race event. NO refueling allowed.

b. Wheels and tires can not be changed.

10.5 Wheelbase, Tread Width, Frame Height

a. Minimum wheelbase is 102" on either side. The left side wheelbase must be +/- 1" of right side. Maximum wheelbase is 108".

b. Maximum tread width front and rear is 66".

c. Absolute minimum height of frame and cross members is 3.5" from ground before, during, & after each race event without driver. No lifting allowed. Rear spoiler height maximum must be maintained before, during, & after each race event.

10.6 Engine Location

a. Engine/drive line must be centered within 3" of the tread width of the car. This will be measured from the outermost point of the front tires.

b. Engine crankshaft center height must be a minimum of 10" from the ground.

c. Maximum engine setback is 2 inches (2") from the forward most sparkplug hole center to a determined line across the center of the upper ball joints. Engines with forward mounted distributors will be permitted up to 3 inches (3") setback from centerline of upper ball joints. Gm 604 – McGunegill 425 – Ford D347SR sealed engine options will be permitted a maximum 4 inch (4") engine setback with crankshaft center line at 12" from ground.

d. Engine must be positioned in the normal upright mounting, whereby cylinder vertical centerline of a 90-degree engine shall be a 45-degree engine angle to a vertical line projected from the ground plane.

10.7 Driver's Seat

a. Driver's seat must be designed for auto racing and constructed of 0.125 inch thick aluminum and adequately padded.

Aircraft-quality hardware is required for attaching seat to seat substructure. Seat must be located with at least 6" (preference of 8") clearance to the nearest longitudinal door bar.

c. The seat substructure must be securely welded to the main roll cage.

10.8 Fire Walls

a. Interior of car must be completely enclosed in respect to engine compartment, track surface, wheel wells, and rear (fuel cell) compartments. The area immediately beneath the driver (floor) and the vertical panels surrounding the seat area (front and rear firewalls and transmission tunnel) must be constructed of minimum 18 gauge steel (.047 inch) and be of welded construction. Other interior panels may be constructed of aluminum, minimum of 0.040 inch thickness.

b. Panel on passenger side of car may be either flat across at transmission height, drop back to floor level after transmission tunnel, or have a 4" flat area over transmission and then angle up to the top of the right side door bars.

10.9 Dashboard

A full width dashboard is required.

10.10 Engine Requirements - Steel Heads Engine

a. Engines must retain cast iron heads. OEM production heads only.

b. All cars must utilize stock American made cast iron engine blocks.

c. Detailed head rule listed under rule 10.11.

d. Must be a V-8 engine with a maximum displacement of 362 cubic inches. Cars with engine displacement exceeding 362 c.i. may be allowed to compete but need PASS Officials approval and carry a weight penalty.

e. Flat top pistons only. Piston surface may not protrude above block surface.

f. No titanium or aluminum connecting rods permitted. Any length after market rod permitted.

g. Any camshaft permitted.

h. Lifter bores may be bored, or re-bored and sleeved to accept Ford lifters.

i. Oil System: Any in pan, or single state external belt driven oil pump allowed. External pumps must draw oil from wet sump pan only to qualify as wet sump system. External oil coolers are allowed.

j. Engine dry sump oil system with external tank allowed. Maximum of a five stage pump on a dry sump system.

k. Any flat top piston permitted. Valve relief may be cut into piston. No pop-up pistons permitted.

l. No electric fuel pumps permitted.

m. Block, crank, and rods must all be steel

n. Any steel or aluminum 1 piece intake. No fabricated intakes permitted. Maximum depth of intake allowed is 5".

o. Standard "Southern" steel head engine option engine may not exceed 14-1 static compression ratio.

p. "Northern" steel head option motor is limited to a maximum of 11-1 static compression ratio and flat tappet design camshaft only. This option may compete utilizing Holley carburetor options as follows: 600 cfm., 650 cfm., or 750 cfm.

q. "Southern" steel head GM. engine non oem. Cylinder heads may be permitted. Heads must be cast iron and meet the following requirements. No port blending or modifications to runners, bowl, or chamber. (No angle more than 80 degrees) Maximum intake runner cc is 208. 23 degree only permitted. Casting must match stock port location of OEM GM cylinder casting design. May be port matched to intake using Mr. Gasket #102 intake gasket, maximum depth of 1 inch. No polishing.

10.10.1 9.50 to 1 Engine Rule

a. Can Not exceed 9.5:1 static compression ratio.

b. Valve angle:

- 1. GM - 23 degree +/- 2 degrees - GM - 18 degree
- 2. Ford - 9 Degree +/- 1 degree
- 3. Mopar - 15 Degree +/- 1 degree

c. Aluminum heads.

d. Steel standard production crankshaft, NO TITANIUM. Balancing allowed.

e. Any cam, any steel lifter, and any rocker arms. Gear drives ok.

f. Any steel or aluminum one piece intake. No fabricated intakes. Maximum depth of intake allowed is 5".

g. No SB2 heads, GM splayed valve heads, 14 degree or Buick heads permitted. Maximum of 2 valves per cylinder. Overhead cams are NOT permitted. Cylinder heads are required to retain non-modified valve position.

h. Holly 390 cfm 4bbl carburetor only.

i. Maximum carburetor spacer/adaptor/gasket thickness allowed is 2 1/8".

j. Only single hole or 4 hole adapters are allowed with NO tapered, beveled, or slant holes.

10.11 Cylinder Heads for Steel Head Option

a. No porting, polishing, sand blasting, glass beading, painting, angle milling more than 2 degrees, or adding material to head permitted. GM Heads: Any current (year 2002 or older) 23 degree cast iron head allowed, except no high ports allowed. No 14 degree heads allowed. Year 2005 GM Vortec Bow-Tie heads # 25534351, 2534371 (bare castings), 25534421, & 25534431 (fully assembled) are allowed only in "as produced" condition. Valve size must remain stock (2.00 / 1.55"), only normal valve machining, & 1/2" max. port matching. Ford Heads: N351, N352 (year 2002 and older). Dodge Heads: W2 castings (year 2002 or older)

ANY EXCEPTIONS TO THE CYLINDER HEAD RULES MUST BE SUBMITTED TO PASS TECH FOR APPROVAL.

b. Multi-angle valve grinding permitted.

c. Maximum intake valve size is 2.080 inches.

Heads with the following maximum valve sizes and stock valve dimensions can be ported and polished.

General Motors: Intake Maximum 1.94" Exhaust Maximum 1.50" GM casting #041,291,441,461,462, & 492 (The 492 casting has to be GM #3958603, 1.94" intake and 1.50" exhaust valves)

Chrysler 340 c.i: Intake Maximum 2.02" Exhaust Maximum 1.60"

Chrysler 360 c.i: Intake Maximum 1.88" Exhaust Maximum 1.60"

Ford Cleveland: Intake Maximum 2.19" Exhaust Maximum 1.71" W/P casting #4351 only

Ford Winsor: Intake Maximum 1.84" Exhaust Maximum 1.54" Ford casting #GT40-M6049-L302

d. Bowl work allowed up to 1/2 inch below top of valve seat, maximum.

e. Port matching allowed up to 1/2 inch on intake port, maximum.

f. Polishing of combustion chambers only, permitted.

g. No reworking of exhaust ports.

h. Steel or titanium valves permitted.

i. Any valve spring permitted.

10.12.1 NorthWest Brodix Spec Head Engine

a. Brodix Spec Cylinder head. No modifications other than standard Brodix options.

b. Maximum Cubic inch permitted 360 C.I.D.

c. Cast iron block only.

d. any one piece intake with maximum 5/8 inch blend permitted.

e. Flat tappet or roller cam permitted.

f. Only standard one piece crankshaft and rods permitted.

10.12.2 McGunegill – Hamner - Progressive Sealed Engine Option

a. Sealed engine in produced form permitted.

b. Series officials may add or subtract weight to ensure fair competition.

c. No alterations to produced engine permitted.

d. Non conforming seals or tampered seals ensure weight penalty as well as inspection.

10.13 Pro Cup Engine Option

a. Pro Cup engine permitted in complete conforming version.

b. Series officials may add or subtract weight to ensure fair competition.

c. No alterations from specifications permitted.

10.14 GM Fast Burn 400 Crate Engine Option

a. Gm crate (spec.) engine in sealed factory form permitted. Permitted with 1.6 Rocker change – “Bee Hive” valve springs – Balancer change – 6 ½ deep wet sump oil pan change. At competition weight of 2750 lbs.

b. No modifications permitted other than specified.

10.15 Intake Manifolds

a. Any un-altered aluminum or cast iron intake manifolds may be used.

b. Port matching allowed up to ½ inch maximum. No other machining allowed.

10.16 Carburetors

a. A 750 cfm model carburetor may be used on all engines options with the exceptions as listed: 9 to1 390 cfm, Crate engine 650 cfm., Pro cup 600 cfm.

b. A 390 cfm model carburetor must be used on aluminum head 9.50 to 1 engines.

c. No polishing, grinding, or drilling holes permitted in the body of the carburetor.

d. Choke horn may be removed with a square cut, no taper or bevel may be cut into the body of the carburetor.

- e. Boosters may not be changed but may be aligned. Size and shape must not be altered. Height must remain standard. The passage ways from the metering block may be enlarged to a suggested size of 0.156 inches.
- f. Venturi area must not be altered in any manner. Casting ring must not be removed.
- g. Base plate must not be altered in shape or size.
- h. Stock butterflies must not be thinned or tapered. Idle holes may be drilled in butterflies. Screw ends may be cut even with shafts but screw heads must remain standard.
- i. Throttle shaft must remain standard and must not be thinned or cut in any manner.
- j. Power valve, metering blocks and floats may be altered.
- k. Throttle linkage may be changed.
- l. Only Holley HP series carburetors are permitted for competition. All measurements for each individual carburetor must meet all factory specifications.

10.16.1 390 Modified Carburetor Option

- a. Modified 390 cfm carb allowances are booster bar may be removed from center of booster(maximum inside diameter of booster is .473) and boosters may be tapered from center seam down(boosters must retain .700 length minimum).
- b. No other alterations permitted.
- c. Utilization of modified carb option must adhere to posted weight penalty.

10.16.2 Carburetor Spacer and Gaskets

- a. No alterations allowed to carburetor spacer.
- b. Only a 1 piece carburetor spacer, maximum 2 inch in thickness may be installed between the intake manifold and the carburetor. Any open or 4 hole spacer may be used, but the spacer opening must be perpendicular to the base of the carburetor with no taper or bevel. Outside configuration of the spacer must conform to the base of the carburetor. Only 2 paper gaskets (1 per side) with a maximum thickness of 0.065 inch will be permitted. Gaskets may be altered to match carburetor base openings.

The only exception to Spacer rule 10.16.2 b is as follows: "The Governor" 1" (one inch) carburetor spacer will be permitted with an additional 1" (one inch) spacer added to the top of the "Governor" spacer. Changeable venturi sleeves are permitted for use yet are restricted to the following available sizes: Minimum smallest inside diameter permitted .950"(inch). Maximum smallest inside diameter permitted 1.400"(inch). Smallest inside diameter of venturi sleeve must be located at the intake mounting surface of spacer. Maximum of 3 (three) gaskets permitted with a maximum thickness of 0.065 inch each.

10.16.3 Carburetor Jets

a. Carburetor jets must be the same type as supplied by the carburetor manufacturer.

10.17 Fuel Injection or Supercharger

a. Fuel injection or superchargers are not permitted.

10.18 Carburetor Air Cleaner and Air Filter

a. Air filter element must be a minimum of 12 inches and a maximum of 16 inches in diameter. Air shall be filtered through the element. The air filter elements may not be sprayed or soaked with any type of chemicals or liquids.

b. The air filter housing must be centered on the carburetor. No tubes, funnels or any other device which may control the flow of air is permitted inside of the air cleaner or between the air filter housing and the carburetor.

c. Air cleaners can not be removed during practice or competition.

10.19 Air Intake

a. No cowl air induction is permitted. Absolutely no air ducts or baffles permitted on or leading to the air cleaner or element.

b. Air box opening should be approx. 4 inches by 20 inches may be cut in the hood behind the carburetor air cleaner to allow fresh air to the carburetor.

10.20 Electrical System

10.20.1 Ignition

a. All ignition systems must be acceptable to PASS Officials.

b. Ignition amplifier boxes and RPM limiters that are analog are allowed, but must not contain programmable, computerized, or memory circuits.

c. No magnetos or computerized systems are permitted.

d. The distributor must mount in the stock location and maintain the same firing order as a factory produced engine for the make and model car being used.

e. No crank trigger ignition systems permitted.

f. No adjustable timing controls permitted.

g. ALL non utilized electrical plugs within drivers compartment must be capped, plugged or covered at all times.

10.20.2 Spark Plugs

- a. Any make or brand of spark plugs may be used.

10.20.3 Alternator

- a. The alternator system when used must be working within specifications.

10.20.4 Starter

- a. The self starter must be in working order. Gear reduction starters are acceptable. All cars must be capable of starting under their own power. In the event a participant needs assistance (push start), competitor will be placed at the rear of the line up.

10.20.5 Battery

- a. The battery may not be located within the driver's compartment. Battery must be isolated within the fuel cell area of the car. Battery must be securely mounted and covered to prevent spillage if inverted.

10.20.6 Electrical Switch Locations

- a. All electrical switches must be located within the driver's reach. A labeled on/off master switch must be located within reach of the driver's side window opening and effectively kill power from the battery to the car's ignition system.

10.20.7 Accessories

- a. Cars will not be permitted to carry on board computers, micro-controllers, processors, recording devices, electronic memory chips, traction control devices or digital readout gauges.

Radios must be of two-way voice communication type only, independent of the car's electrical system.

10.21 Fuel Cell

- a. Maximum size is 22 gallons (U.S.).
- b. Cell must have a minimum ground clearance height of 8 inches from the track.
- c. Must have flapper/ball valve assembly in cell to prevent spillage when upset.
- d. Must be enclosed in a 20 gauge metal canister and installed in a safe manner.
- e. Must have a check valve in vent tube to prevent spillage. Vent line must not be excessive in length.
- f. Must have a safety loop designed to protect the rear of the cell.

10.22 Drive Train

- a. No carbon fiber or titanium products allowed without PASS approval.

10.22.1 Clutches

- a. Multi-disc designed for racing. Minimum 5-inch diameter clutch plates.**

10.22.2 Flywheel

- a. Any flywheel permitted.**

10.22.3 Bell Housing

- a. Any aluminum or steel bell housing allowed.**

10.22.4 Transmission

- a. No "in-out" type transmissions permitted.**
- b. Not to exceed 4 forward gears. Must have at least 2 forward gears and 1 reverse gear in working order.**
- c. No automatic or semi-automatic transmissions permitted.**
- e. Fourth or high gear ratio must be 1 to 1.**
- f. All transmissions must be approved by PASS Officials.**

10.22.5 Drive Shaft

- a. Drive shafts and universals must be similar in design to standard production type. Only a 1 piece steel or aluminum drive shaft permitted.**
- b. It is mandatory that (2) 360 degree solid steel brackets, no less than 2 inches wide and 1/4 inch thick, be placed around the drive shaft and fasten to the cross member of the car.**
- c. All steel driveshafts must be painted white.**

10.22.6 Rear Axle

- a. Any rear end center section with spur gears will be permitted but must not use any electronic devices.**
- b. Full floating rear axles are compulsory.**
- c. Locked or unlocked differentials are permitted.**
- d. Limited slip differentials are permitted with no electronic controls.**
- e. Differential oil coolers are permitted.**
- f. Cambered rear axle housings are permitted.**
- g. Steel or rubberized drive plates may be used.**

10.22.7 Wheels

- a. Only 15-inch diameter 5 lug steel wheels with a 10-inch rim width and a reinforced center are permitted.**
- b. Solid heavy-duty steel lug bolts and nuts must be used.**
- c. Bleeder valves are permitted.**

10.22.8 Tires

- a. Only approved tires permitted. Approved tires are those tires purchased from PASS or an approved PASS dealer.**
- b. No hand grooving, buffing, grinding, and/or cutting on any area of the racing tire allowed.**
- c. Any competitor who, during an Event, uses or is in possession of 1 or more tires that have been altered externally or internally by unauthorized treatment is subject to a fine of not less than \$500.00 and disqualification, and/or disallowance or qualifying efforts, and/or withdrawal of the opportunity to qualify for the Event, and/or suspension from future PASS Events, and /or additional penalties.**
- d. Any team found with any tire softener, conditioner, or any substance used to treat tires, in their possession (including trailers and haulers) during any PASS event will be disqualified from the event. Additional fines and/or penalties may be imposed including, but not limited to, suspension from future PASS events.**
- e. No Blowers or air directional devices to include duct hoses are permitted to be directed at tires in any manner. All Blowers or ducting must be directed only to brake rotor.**

10.22.9 Tire Usage Rules

- a. Competitors must start the feature race on tires used to qualify with. Any change of qualified tires must be approved by PASS Officials. When an Official detects a change from the qualifying tires, the competitor will be allowed to change back to the original tires and start the race from the rear of the field.**
- b. A tire can not be changed in a feature race unless it is flat. Violation of this rule will carry a 2-lap penalty.**
- c. An extended race of over 150 laps may allow tire changes during the feature race and will be announced at the drivers meeting and printed on the Official Entry Blank for the race.**
- d. Additional tire usage and control guidelines may be included on the Official Entry Blank for the Event.**

10.22.10 Tire Policy Rules

- a. Any tire under the minimum limit will be determined illegal and become the property of the PASS.**

- b. Any competitor purposely avoiding a PASS Official by running through the dirt, water, taking extra laps around the track, etc., will be determined to have illegal tires.**
- c. Any competitor found with illegal tires in the qualifying events will be disqualified and placed at the end of the feature line up if the field is not full.**
- d. Any competitor found with illegal tires in the feature race will be disqualified and lose all points and purse for the event.**
- e. Any competitor found with illegal tires a second time will be removed from the premises of the event and subsequently be suspended for a minimum of 2 races and may be subject to a minimum \$1,000.00 fine.**
- i. All decisions by PASS Series Officials will be final.**

10.23 Mufflers/ Exhaust

- a. All cars must have mufflers in "as produced condition". Howe #3002, 3006, or H-3018 are to be used. Cars not adhering to this rule or excessively loud cars may not be allowed to compete or may be assessed a weight penalty. Any other muffler must be approved by PASS.**
- b. The exhaust must not extend outside of the body panels. A flange should be added to the end of the exhaust pipe and riveted to the body panel.**

10.24 Chassis Construction

10.24.1 Center Section Components

- a. Main frame rail structure of chassis, defined as the primary structure to which roll cage members, major suspension components, engine, etc., mount to, must be constructed of a mild steel shape having a minimum perimeter dimension of 10 inches. Examples: 2 x 3, 2 1/2 x 2 1/2 , etc. Main frame rail members should be a minimum of:
10 inch perimeter tubing: 0.120 inch wall thickness
12 inch perimeter tubing: 0.095 inch wall thickness
16 inch perimeter tubing: 0.083 inch wall thickness**
- b. Main frame rail members shall be constructed so that the side rails are located within the normal tread width of the car. Right side main frame rail may be of perimeter or straight rail design.**
- c. Frame rails must measure a minimum of 50 1/2 inches and a maximum of 60 inches from outside to outside and must be a minimum of 44 inches in length.**
- d. The left main frame rail on a straight rail chassis must measure 10 inches minimum from the left front frame rail.**
- e. When using an under-slung front snout on a straight rail chassis, the right main frame rail must be outside of the right front frame rail. They must not be in a straight line.**

10.24.2 Front and Rear Sections

- a. Front and rear frame rails must measure 10 inches around the perimeter and constructed of**

0.083 inch wall thickness.

b. Rear frame section must extend beyond the rear edge of the fuel cell. The rear frame section may be 2" X 2" from the rear axle rearward.

c. Rear frame section may be fabricated above or below the rear axle.

d. Front and rear frame sections centerline must be located within 1 inch of the centerline of the main frame section on a perimeter chassis.

e. Rear frame section must measure a minimum of 38 inches outside to outside.

10.24.3 Roll Bars

a. A four-point roll cage structure of 1 3/4 inch outside diameter made of 0.090 inch thick molybdenum or mild steel tubing is required. All cars must have an x-type member across and behind the driver.

b. Roll cage structure must be fully with minimum 1/8 inch thick gusset plates at all major tube intersections.

c. A minimum of 4 horizontal bars, 3 curved, with 6 vertical bars (2 between each horizontal bar), with steel gussets is required in the driver's door.

d. It is mandatory to have 16 gauge metal welded between door bars or a 16 gauge plate 40 inches in length and 17 inches high minimum, welded between the door bars and the driver's door.

e. The right side door shall have 3 horizontal bars, straight or curved.

f. Total height of roll cage to be 40 1/2 inches from bottom of frame. Halo to be no less than 1 inch lower.

g. There must be a piece of tubing welded diagonally or perpendicular between halo and top of roll cage.

h. Minimum height of door bars on driver's side is 22 1/2 inches from bottom of frame.

i. A "Petty Bar" must run between center of cage and upper right front halo.

i. Width of halo should be a minimum of 44 inches on perimeter chassis and 31 inches on straight rail chassis. Measurement is from outside to outside of tubing.

k. All roll cage installations and workmanship must be acceptable to PASS Officials.

10.25 Suspension Components

a. Front and rear suspensions may be coil spring or coil over spring type.

b. Rear trailing arms may be of any unequal length and may use a spring or shock assembly.

c. The third link may be of any length.

d. Rack and pinion steering is allowed.

10.25.1 Springs

a. Type of springs including height and wire diameter is optional.

10.25.2 Shocks

a. A maximum of 1 shock absorber per wheel is permitted.

b. No experimental shocks.

c. Type and location of shock absorbers is optional.

10.25.3 Sway Bars

a. Any type sway bar is allowed front or rear.

10.25.4 A-Frames

a. Independent front suspension is mandatory with articulating upper and lower control arms.

b. Lower A-frames may be stock appearing or strut arm type.

c. Upper and lower A-frames may be unequal lengths.

d. Ball joint type is optional. Mono balls are allowed.

10.25.5 Spindles

a. Steel spindles only.

10.26 Safety Equipment

a. Window nets are required in driver's window area. The window net must be securely fastened at the bottom and have a quick release fastener at one end in reach of the driver. The net must be in the latched position at all times when the car is on the track.

b. Driver must, at all times while in car, wear an approved driving suit and gloves. Suits must cover legs, arms and body of driver. Suits and gloves must be of fire resistant material.

c. Helmets must be worn at all times while operating the car. Helmets must meet or exceed the Snell 95 standard.

d. Cars must be properly supported by jack stands whenever a person is beneath it.

10.26.1 Seat Belts and Shoulder Harness

a. A quick release lap belt no less than 3 inches wide is compulsory.

b. Both ends of the lap belt must be fastened to the roll bar cage with high quality bolts not less than 3/8 inch diameter.

c. Shoulder harness must be no less than 3 inches (2 inch permitted with proper combination of approved head/neck safety device) wide and must come from behind driver's seat. It is recommended that the harness pass through a steel guide welded to the roll cage that will prevent the harness from sliding from side to side.

d. A center (crotch) belt must be securely mounted to the lower seat frame at the bottom and to the lap seat belt at the top.

e. Where the belts pass through the seat edges, the belt must have a grommet installed, be rolled and/or padded to prevent cutting the belt.

f. All seat belts and shoulder harnesses must connect at the lap belt with a quick release buckle.

g. Seat belts must be dated by the manufacturer and must not be used beyond 5 years after the manufactured date.

h. It is recommended that a Hans or Hutchens type device is used.

10.26.2 Fire Control

a. All cars must have an on-board fully charged 10 or 13 pound fire extinguisher of Halon 1211 or equivalent. A built-in extinguisher is preferable. All others must have an adequate fire extinguisher mounted within the driver's reach. Tape is not acceptable as the method of mounting.

10.26.3 Radios

a. A minimum of (2) two-way radios are required per car with communication between the driver and a crew member.

b. All teams must have 1 scanner programmed to receive the PASS race control frequency and must have a crew member monitoring this channel at all times during every PASS event. This crew member must be in a position to communicate directions to the driver via the two-way radios referred to in Section 10.23.3.a.

10.27 Fuel

a.. Only approved fuel by PASS will be permitted for competition. Fuel must remain unaltered and is subject to testing and must meet approval. Fuel samples will be taken and will be scheduled as typical pre and post race inspection. Use of any fuel or additives that are non approved will result in immediate disqualification. Sunoco Standard and Supreme are the ONLY approved fuels for PASS competition. In the event that any team's fuel sample fails testing it may be required to purchase a minimum of 15 gallons of fuel at track at tech director's discretion.

10.28 Lettering and Numbering

a. Car numbers must be a minimum of 18 inches high and 3 inches wide. Numbers shall be placed in contrasting colors to the car on both doors and roof. **No reflective chrome, gold, or prism numbers allowed.** Roof numbers must be visible as read from the grandstand side of the car.

- b. The car number must appear in 6-inch high numbers in the uppermost corner of the windshield on the passenger side and also on the right rear taillight cover.**
- c. Any signage deemed inappropriate by the PASS must be removed before car is allowed on the racetrack.**
- d. Car number must be approved by the PASS. Numbers for Tour drivers from the previous season will be held for renewal until January 1st. of each year. New members will be assigned on an available basis. Car number application forms are available from PASS.**
- e. Any team(Driver) must be licensed and display all PASS promotional stickers to be eligible for provisional starting positions as well as the 100 bonus points per event earned by licensed teams. Front fenders as well as top of windshield must be available for promotional sticker placement as presented in promotional pack. All necessary stickers will be available through PASS at race events.**

10.29 Illegal Parts

- a. Any part found illegal will be confiscated and become the property of the PASS.**
- b. Any competitor found to have an illegal part will not be allowed to compete in any PASS event until that part is surrendered to the PASS.**

10.30 GM 400 '604' Fast Burn, McGunegill 425 LM 'Crate' Engine Inspection Policy

Within the guidelines of utilizing the 'Crate' engine options all competitors are subject to a zero tolerance policy of inspection and conformability to all guidelines as specified by the manufacturer.

If in the event any team is considered in question as to the productivity of performance from a 'crate' powered engine, that engine will be susceptible to the following inspection process without protest. Failure to adhere to any action taken by PASS series officials will result in immediate disqualification.

At the conclusion of any race event PASS reserves the right to require any team to remove engine in complete form and turn over possession to appropriate officials for inspection purposes to be determined by officials.

Engine will be susceptible to Dyno testing and/or engine tear down for complete inspection to determine total legality to factory produced complete form.

In the event ANY part within engine is found non-conforming, the entire engine will become the possession of PASS without claim or dispute. An additional \$1,000.00 fine will be assed to violating team before next event in which said teams attempts to compete.

In the event of engine rebuild the only modifications are listed below.

GM '604' Engine rebuild maximum parameters.

Maximum overbore of .008"

Maximum Deck surfacing of block: .005"

Maximum deck surfacing of cylinder head: .010 straight only. NO angle milling permitted.

Minimum rod and main bearing size: .010" under

All other necessary parts required for rebuild are to be direct factory replacement purchased through GM and are exact OEM specified part numbered to '604' specification sheet and installed to factory built specs. NO EXCEPTIONS!

All '604' ,McGunegill 425LM crate engines are to be used in complete form as produced unless otherwise specified. From Intake manifold to oil pan. No external oiling systems permitted.

ZERO TOLERANCE!