



## 2020 VSP Pro Late Model Rules

### **Engines-** Crate Late Model Engine Rules

- (i) Gm part number 88958602 & gm part number 88958604
  - (ii) These engines are sealed at the intake manifold, cylinder head, front cover, and oil pan with special twist off bolt heads originally from gm. Crate USA seals allowed, no RM bolts, for any other sealing system contact Crate Racing USA for approval. Crate engines must not be altered, modified or changed from factory specs.
  - (iii) The sealed engines must remain intact and not be tampered with; any seals that have been removed or tampered with will make the engine illegal and not eligible for competition.
  - (iv) No changes are allowed to the engine - intake manifold, heads, valve covers, front cover, oil pan, harmonic balancer or any other part / or parts on / or in engine.
  - (v) After much research Durrance Layne Dirt Late Model Series officials, along with GM Officials, have determined on some cases that original factory cylinder heads and valve springs do not meet the required correct install height. To correct this, shimming will be allowed to meet the correct install heights listed in the chart below. These updates will be published in a forthcoming version of the GM Technical/ Specification Manual.
  - (vi) Valve Spring Specifications – New Description 88958602 88958603 88958604 Valve Spring P/N 10212811 12551483 12551483 Valve Spring P/N -set of 16 n/a 12495494 12495494 Diameter (+/- .010") (A) 1.250" 1.340" 1.340" Free Height (+/- .015") (B) 2.021" 2.154" 2.154" Installed Height (Ok to shim to proper height) (C) 1.70" 1.780" 1.780" Pressure @ Installed Height (+/- 5 lbs.) (D) 80 lbs. 110 lbs. 110 lbs. Open Height (E) 1.270" 1.300" 1.300" Open Pressure (+/- 10 lbs.) (F) 195 lbs. 270 lbs. 270 lbs. Coil Bind (G) 1.20" 1.21" 1.21" Wire Diameter .177" .178" .178"
  - (vii) No vacuum pumps.
  - (viii) All crate engines must remain stock as they came sealed from the factory. Crate engines must not be altered, modified or changed from factory specs.
  - (ix) Engine's gm serial number and when applicable crate usa build certification number, must be clearly visible to series technical inspectors.
- b) Engine setback rule:
- (i) will be 6" from center of top ball joint to the #1 spark plug with a 1-inch tolerance on engine setback. There will be a 50 lb. penalty forward of the motor plate for each 1/2-inch of set-back beyond seven (7) inches of engine setback. No cars with more than an eight (8) inch engine setback will be allowed to compete.

c) Carburetor rules: One four-barrel carburetor only of any manufacture.

(i) Engine must be naturally aspirated.

(ii) 604 - may use one carburetor spacer (1 inch-one piece with .040 tolerance maximum) and two standard paper gaskets (maximum 0.070-inch-thick), one gasket between intake to spacer and one gasket between spacer to carburetor.

(iii) 602 - may use one carburetor spacer (2 inch-one piece with .040 tolerance maximum) and two standard paper gaskets (maximum 0.070-inch-thick), one gasket between intake to spacer and one gasket between spacer to carburetor

(iv) Distributer Rule: Any electronic distributor-type ignition system. No crank trigger, distributor-less multi-coil, or magneto ignition system.

d) Starter Rule:

(i) All cars must have starter in working order.

e) Exhaust Rules:

(i) NO 180-degree headers

(ii) Mufflers not required unless track mandates. When mandated mufflers must have some type of internal noise dampening characteristics, baffles, extruded holes, screen, chambered, etc. Muffler's must meet local speedway's noise decibal requirements.

(iii) No square-tube headers allowed

f) Fuel Cell / Fuel Pump Rules:

(i) An approved fuel cell (32 gallons maximum) must be securely mounted in the trunk area of the car, inside a .20-gauge metal box supported by a minimum of two 2" by 1/8" steel straps.

(ii) All fuel cells must be completely visible from rear of car.

(iii) Gasoline or racing gas only – E85 allowed. no ethanol (e105) no methanol, or alcohol - no nitrous oxide. No propylene oxide, or chemical additives. Fuels must have a specific gravity of less than .745. Any fuel with a specific gravity of .745 or greater will be disqualified. It is the racers responsibility to know what he/she is putting in the fuel cell. The new YP CHP racing fuel is strongly recommended, as it is specially formulated for the gm performance circle track engines for maximum performance and durability.

(iv) No electric fuel pumps.

g) CT 525 Crate Engine Rules

(i) Must meet Durrance Layne Series rules for CT525.

(ii) Must utilize MSD CONTROLLER PART #6014 CT when running a 525 with 7200 max RPM and 32-degree timing map programming. Only 1 box permitted.

(iii) MSD IGNITION CONTROLER MUST BE MOUNTED WITH EASY ACCESS, FOR TECHNICAL INSPECTORS.

h) Weight Rules

(i) GM CRATE ENGINE #88958602 - 2200 LBS. AT QUALIFYING, 12 INCH MAXIMUM REAR SPOILER OK, 1LB PER LAP BURN OFF ON HEATS, CONSYS, & FEATURE RACE. (GREEN FLAG LAPS ONLY) Nesmith body rules allowed with crate engine.

(ii) GM CRATE ENGINE # 88958604 - 2200 LBS. AT QUALIFYING, 12 INCH MAXIMUM REAR SPOILER OK, 1LB PER LAP BURN OFF ON HEATS, CONSYS, & FEATURE RACE. (GREEN FLAG LAPS ONLY) Nesmith body rules allowed with crate engines

(iii) Southern Clash Spec Engine 2300 Lbs. 1 pound per lap burn off on heats, last chance, and feature races, green flag laps ONLY. Track scales are the Official scales of the race weekend.

(iv) CT 525 Engine 2400 lbs. 1 pound per lap burn off on heats, last chance, and feature races, green flag laps ONLY. Track scales are the Official scales of the race weekend. 50lbs must be mounted in front of the mid plate.

(v) Attached weight must be securely bolted to frame with 1/2" or larger bolts. Weight must be painted white with car number displayed. Penalty for losing attached weight on the race track is disqualification from the event.

#### i) Southern Clash Chevy Engine Rules

(i) Engine in car must match manufacturer of body used. Example: Ford Thunderbird must run Ford Engine: Camaro must use Chevy Engine: Dodge Intrepid must run Mopar Engine.

(ii) Chevrolet 350 cubic inch + .060.

(iii) Cast iron blocks ONLY. Factory production, GM Performance Parts, World Products, or Dart blocks as long as block remains same configuration of Stock Chevy blocks. NO lightening of any blocks allowed.

(iv) Must have stock oiling systems. No dry sump systems.

(v) May have straps on stock main caps. After market steel caps-straight bolt or angle splayed caps OK.

(vi) No oversize valve lifter holes.

(vii) Oil coolers – OK

(viii) ACCU sump OK - Pressurized ACCU sumps OK

#### (ix) Crankshaft Rules

(a) Crank must be factory stock stroke.

(b) Stock stroke for engine used. 3.48" Chevy

(c) Balancing OK

(d) Cross Drilling OK

(e) No knife edge or winged cranks

(f) Any aftermarket forged steel or cast production type crank stock stroke for engine used. No Billets. Minimum rod pin diameter 2.00 inch

(g) Crank weight 48 lbs. minimum Chevy engine

#### (x) Connecting Rods

(a) Any forged steel connecting rod with the following dimensions: 7/16 rod bolt, 5.7" Connecting rods not to exceed \$750 cost.

(b) May polish beams.

(c) May use aftermarket rod bolts.

(d) No Titanium Rods - No Carrillo Rods.

(e) No profiling of rods, no CNC machining of center of beam, no removing of manufacture name and rod size.

#### (xi) "I" Beam Rods Allowed:

(a) Crower 5.7 SP93205B--8 5.7

(b) Eagle SIR5700BBLW 5.7

(c) K-1 CF5700ALLB 8 5.7

- (d) Manley 14101-8 5.7
- (e) Pro-Comp PC 4112 5.7
- (f) Scat 2-ICR5700-7/16 5.7
- (xii) "H" Beam Rods Allowed:
  - (a) Eagle CRS5700BLW 5.7
  - (b) Callies-Compstar CSA5700DS2A2AH 5.7
  - (c) K-1 CH5700-ALL BB 5.7
  - (d) Manley 14050-8 5.7
  - (e) Pro-Comp PC4131 5.7
- (xiii) Pistons
  - (a) Any flat top piston.
- (xiv) Engine Balancing
  - (a) Engine balancing permitted.
- (xv) Harmonic Balancer
  - (a) Any Harmonic Balance
  - (b) Balancer may be pinned.
- (xvi) Heads
  - (a) Chevy, OEM or Performance cast iron heads, or Brodix "SPEC" Aluminum head, only heads permitted.
  - (b) Milling heads accepted.
  - (c) Multi angle valve job permitted
  - (d) Maximum intake valve size 2.02", Maximum Exhaust valve size 1.6", Hollow Stem valves permitted.
  - (e) NO titanium valves permitted
  - (f) May use any valve spring, valve retainer, oversize valve stem, lash cap, any steel pushrod, screw in studs, guide plates, stud girdle, any stud mount roller rockers. Stud must go thru center of rockers.
  - (g) NO shaft mounted rocker systems
  - (h) NO porting, polishing, gasket matching, or coating on inside of head runners. No Epoxying in runners. No short side radius-ing. Must be able to see and feel the defined raised lip of original bowl in the cylinder head, in all areas of the bowl, AND All bowl work must Remain concentric with the valve guide, and NO machined or grinding work more than .750". Any work done more than .750" below bottom valve seat will be deemed port work NOT part of the valve job. Any completely smooth blends, of the bowl on the short side (even though you can see where the cutter stops) will be considered short siding, again must be able to see and feel the defined raised lip of the original bowl.
  - (i) NO altered or ground off casting numbers
  - (j) Chevy Vortec Head permitted casting No's. 12554290-10125320-12552520-13555690-10239906- & 062. Total intake runner volume not to exceed 173CC. Total runner volume Exhaust runner not to exceed 64CC.
  - (k) Chevy Phase II cast iron bow tie head (new style), part number 1013492, casting number 140110034 allowed. Maximum runner volume on intake not to exceed 184CC.

- (l) New Chevy Vortec/Bowtie Head part #25534351 Ok. Maximum runner volume 186CC. Maximum Exhaust runner volume 69CC.
- (m) Dart Iron eagle 180 head permitted (part #'s 10110010, 10110010F, 10120010). 182cc Maximum intake runner volume, 77cc maximum exhaust volume. 2.02" Intake valve max, and 1.6" exhaust valve max. NO Machined cuts more than .700" below valve seat. NO Iron Eagle 200,215, or 200,215 Platinum heads allowed
- (n) 5/16 valve stems permitted.
- (xvii) Intake Manifold
  - (a) Any cast iron or aluminum intake.
  - (b) No porting, polishing, squaring/gasket matching of ports. When using SPEC aluminum heads, you may gasket match intake port opening no more than ½" (.500") deep into runner. NO MATCHING ON HEAD SIDE..
  - (c) May run 1" spacer (1 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR.
  - (d) 602 - MAY USE ONE CARBURETOR SPACER (2 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR
  - (e) Turtle OK not altered
  - (f) Total adapter not to exceed 1" total. Anything mounted between carburetor and intake is considered spacer and cannot exceed 1" total.
  - (g) Directional spacers OK
  - (h) All intakes must be from a recognized name brand intake manufacturer, ex Edelbrock, Brodix, Holley, Weiand, etc. MUST have manufacturers name and part number intact and unaltered. NO import manifolds allowed
- (xviii) Camshaft
  - (a) Any flat tappet cam
  - (b) Stock diameter lifters ONLY .842", OEM size to make of engine, NO ceramic foot lifters allowed, all lifters must have a magnetic base.
  - (c) NO roller cams or lifters
  - (d) Cast iron stick ONLY, NO billet cams.
- (xix) Timing Gears
  - (a) Timing chain and gears ONLY
  - (b) NO gear drives, or belt drives
- (xx) Carburetor
  - (a) Any 750 cfm with 750 base plates with all ventures throttle shafts and butterflies meeting factory specs. Will be checked with go no go gauges.
  - (b) May remove choke butterfly.
  - (c) Holley 3310 May drill idle holes in primary butterflies. There should be No half, or flat throttle shafts in the primary side of the carburetor's base plate.

- (i) The primary throttle shaft, with a 172 butterfly should be a minimum of .1868" thick
- (ii) The secondary round shaft, with a 172 butterfly should be a minimum of .1828" thick.
- (iii) The secondary half or flat shaft with a 172 butterfly, should be a minimum of .1228 thick
- (iv) Billet base plate allowed must meet factory Holly specs. On throttle bores, and above throttle shaft specs.
- (v) Note: Checked with go-no-go gauges
- (d) May install secondary jet metering plate, Billet metering plate allowed.
- (e) May NOT remove choke horn on 3310
- (f) NO porting or polishing
- (g) Ford 735 cfm. OK, Secondary Throttle screw OK.
- (h) Four corner idle OK.
- (i) Carbs checked with Go-No-Go gauges.
- (xxi) Fuel Pump and Fuel cell
  - (a) No electric fuel pumps
  - (b) Steel case on fuel cell recommended
- (xxii) Water Pump
  - (a) Stock mount ONLY.
  - (b) Electric fans OK.
- (xxiii) Ignition
  - (a) Any battery operated.
  - (b) No crank trigger ignition, & No Magnetos
  - (c) NO Electronic Traction Control device!
  - (d) MSD Boxes may not be mounted in drivers' cockpit.
- (xxiv) Radiator
  - (a) Must be close to stock location, mounted in front the motor.
- (xxv) Starter
  - (a) Must have operating starter.
- j) Southern Clash Late Models – Ford Engine Rules
  - (i) Heads
    - (a). Sportsman M-6049-N351 or M6049-N352 heads allowed. NO after-market heads. N351 head maximum intake runner volume 195CC, Exhaust runners 80CC maximum. N352 head maximum intake runner volume 188CC, and Maximum exhaust runner volume 77CC. Combustion chamber volume either head, 62CC. NO Tolerance. Maximum valve size 2.02" intake, & 1.65" exhaust. May use Brodix "SPEC" aluminum heads, Brodix Spec Head 50cc Minimum Combustion Chamber. Hollow Stem Valves Permitted any Head. No Angle Milling Ford Brodix Spec Head!!
    - (b) Cylinder head must be un-ported. NO porting, polishing, gasket matching, or coating on inside of head runners. No Epoxying in runners. No short side radius-ing. Must be able to see and feel the defined raised lip of original bowl in the cylinder head, in all areas of the bowl, AND All bowl work must Remain concentric with the valve guide, and NO machined or grinding work more than .750". Any Work done more than .750" below bottom valve seat will be deemed port work NOT part of the valve job. Any completely smooth blends, of the bowl on the

short side (even though you can see where the cutter stops) will be considered short siding, again must be able to see and feel the defined raised lip of the original bowl.

(c) Stud mount rockers ONLY, stud must go through center of rocker arm. No shaft mount rockers.

(d) 5/16 valve stems permitted.

(ii) Block

(a) M6010-D351, M351, or N351 are acceptable blocks. N351 block will cost the racer the least amount money on machine work and would be preferred.

(b) Dart Block Part #31384195, and 31385195 allowed. World Products Block part # 087150 and 087152 allowed.

(c) No lightening of engine blocks allowed.

(iii) Crankshaft

(a) Any cast or forged steel (No Billets) crankshaft must have a stock stroke of 3.50" and weigh a minimum of 54lb. No knife edging or winging of cranks. Ford part #M-6303-G351 is a good place to start, The M-6303-G351 is to lite.

(b) Ford may run after market crankshaft but must meet all of above criteria.

(iv) Oil Pump

(a) Wet sump oil system or may use an external single stage belt driven oil pump. Oil must be pumped from and returned to oil pan.

(v) Connecting Rods

(a) Any forged steel rod, 6" maximum length, 7/16 rod bolts permitted. Connecting rods not to exceed \$750 cost.

(b) "I" Beam Rods Allowed:

(i) Crower 6"

(ii) Eagle 6"

(iii) K-1 6"

(iv) Manley 6"

(v) Pro-Comp 6"

(vi) Scat 6"

(c) "H" Beam Rods Allowed:

(i) Eagle 6"

(ii) Callies-Compstar 6"

(iii) K-1 6"

(iv) Manley 6"

(v) Pro-Comp 6"

(d) NO Billet rods, or Carrillo rods.

(e) May polish beams, No profiling or CNC machining in center of beams.

(f) Manufacturer's name and Rod size must remain on rod.

(g) Piston

(i) Any flat top piston.

(h) Engine Balancing

(i) Engine Balancing permitted

(i) Camshaft

(i) Any flat tappet cam

(ii) Stock diameter lifters ONLY ...875", OEM size to make of engine, NO ceramic foot lifters allowed, all lifters must have a magnetic base.

(iii) NO roller cams or lifters

(iv) Cast iron stick ONLY, NO billet cams.

(j) Timing Gears

(i) Timing chain and gears ONLY

(ii) NO gear drives, or belt drives

(k) Intake Manifold

(i) Any cast iron or aluminum intake.

(ii) No porting, polishing, squaring/gasket matching of ports. When using SPEC aluminum heads, you may gasket match intake port opening no more than 1/2" (.500") deep into runner. NO MATCHING ON HEAD SIDE.

(iii) May run 1" spacer (1 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR.

(iv) 602 - MAY USE ONE CARBURETOR SPACER (2 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR Turtle OK not altered

(v) Total adapter not to exceed 1" total. Anything mounted between carburetor and intake is considered spacer and cannot exceed 1" total.

(vi) Directional spacers OK.

(vii) All intakes must be from a recognized name brand intake manufacturer, ex Edelbrock, Brodix, Holley, Weiand, etc. MUST have manufacturers name and part number intact and unaltered. NO import manifolds allowed

(l) Carburetor

(i) Any 750 cfm with 750 base plates with all venturies throttle shafts and butterflies meeting factory specs. Will be checked with go no go gauges.

(ii) May remove choke butterfly.

(iii) May drill idle holes in primary butterflies. There should be No half, or flat throttle shafts in the primary side of the carburetor's base plate.

1. The primary throttle shaft, with a 172 butterfly should be a minimum of .1868" thick

2. The secondary round shaft, with a 172 butterfly should be a minimum of .1828" thick

3. The secondary half or flat shaft with a 172 butterfly, should be a minimum of .1228 thick

4. Billet base plate allowed must meet factory Holly specs. On throttle bores, and above throttle shaft specs. Note: Checked with go-no-go gauges

(iv) May install secondary jet metering plate, Billet metering plate allowed.

(v) Holley 3310 May NOT remove choke horn

(vi) NO porting or polishing



- (vii) Ford 735 c.f.m. OK, Secondary Throttle screw OK.
- (viii) Four corner idle OK
- (ix) Carbs checked with Go-No-Go gauges.
- (m) Fuel Pump and Fuel Cell
  - (i) Belt Drive Pumps Okay!
  - (ii) No electric fuel pumps
  - (iii) Steel case on fuel cell recommended
- (n) Water Pump
  - (i) Stock mount ONLY
  - (ii) Electric fans OK
- (o) Ignition
  - (i) Any battery operated
  - (ii) No crank trigger ignition, & No Magnetos
  - (iii) NO Electronic Traction Control device
  - (iv) MSD Boxes may not be mounted in driver's cockpit
- (p) Radiator
  - (i) Must be close to stock location, mounted in front the motor.
- (q) Starter
  - (i) Must have operating starter.
- (vi) Mopar Engine Rules
  - (a) Blocks - Mopar
    - (i) 360 Mopar production cast iron blocks permitted, also permitted is the Mopar performance cast iron "A" engine block or R3 block part #P4876792AB (59-degree valve tappet) or P4876672AB (48-degree valve tappet) is a good starting point World Products, or Dart Blocks allowed must remain the same configuration of stock Mopar blocks.
    - (ii) Block may ONLY have a Maximum cylinder bore of 4.030"
    - (iii) Wet sump oil system ONLY. No dry sumps.
  - (b) Crankshaft - Mopar
    - (i) Any Forged steel or cast cranks ONLY. No Billets. Mopar performance crankshafts part #P5007253A is a good start. Must have stock stroke 3.58", 50lb minimum weight. Minimum rod pin diameter 2.100". NO knife edging or winging of crankshaft. Balancing permitted.
  - (c) Connecting Rods - Mopar
    - (i) Any forged steel rod, 6" maximum length, 7/16 rod bolts permitted. Connecting rods not to exceed \$750 cost.
    - (ii) NO Billet rods, or Carrillo rods
    - (iii) May polish beams, No profiling of cnc machining in center of beams.
    - (iv) Manufacturer's name and Rod size must remain on rod.
  - (d) "I" Beam Rods Allowed - Mopar
    - (i) Crower 6"
    - (ii) Eagle 6"
    - (iii) K-1 6"
    - (iv) Manley 6"

- (v) Pro-Comp 6"
- (vi) Scat 6"
- (e) "H" Beam Rods Allowed - Mopar
  - (i) Eagle 6"
  - (ii) Callies-Compstar 6"
  - (iii) K-1 6"
  - (iv) Manley 6"
  - (v) Pro-Comp 6"
- (f) Pistons - Mopar
  - (i) Any flat top piston permitted.
- (g) Harmonic Balancer - Mopar
  - (i) Any harmonic balancer permitted
- (h) Cylinder Heads - Mopar
  - (i) Mopar W2 cast iron cylinder head permitted part number P5249769 (59-degree block) 180cc max intake runner volume, & 78cc max exhaust runner volume. P5007445 (48-degree block) 190cc max intake runner volume, 78cc max exhaust runner volume, or P5007445AB 196cc max intake runner volume, 78cc max exhaust runner volume, and casting numbers must remain on head unaltered. 64cc minimum combustion chamber volume. NO TOLLERANCE. May use Brodix "SPEC" aluminum heads. 2.2.02" maximum intake valve diameter, and 1.60" maximum exhaust valve diameter. No Titanium valves, Steel or Stainless-Steel valves ONLY. 11/32" minimum valve stem diameter. Multi angle valve job permitted. Hollow Stem Valves Permitted any cylinder head.
  - (ii) No porting, polishing, gasket matching, or epoxying of runners. No short side radius-ing. No bowl work more than .500". Must be able to see and feel the defined raised lip of original bowl in the cylinder head, in all areas of the bowl, AND All bowl work must Remain concentric with the valve guide, and Any completely smooth blends, of the bowl on the short side (even though you can see where the cutter stops) will be considered short siding, again must be able to see and feel the defined raised lip of the original bowl. Milling of heads of accepted, (note combustion chamber limit above)
  - (iii) May use any diameter valve spring. Any Valve retainer, 11/32" minimum valve stem diameter. Any Steel push rod. Steel Valve keepers ONLY. Mopar may run shaft mounted rocker system. 5/16 valve stems permitted.
- (i) Intake Mainfold - Mopar
  - (i) Any cast iron or aluminum intake
  - (ii) No porting, polishing, squaring/gasket matching of ports. When using SPEC aluminum heads, you may gasket match intake port opening no more than 1/2" (.500") deep into runner. NO MATCHING ON HEAD SIDE.
  - (iii) May run 1" spacer (1 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR.

- (iv) 602 - MAY USE ONE CARBURETOR SPACER (2 INCH-ONE PIECE WITH .040 TOLERANCE MAXIMUM) AND TWO STANDARD PAPER GASKETS (MAXIMUM 0.070-INCH-THICK), ONE GASKET BETWEEN INTAKE TO SPACER AND ONE GASKET BETWEEN SPACER TO CARBURETOR
- (v) Turtle OK not altered
- (vi) Total adapter not to exceed 1" total. Anything mounted between carburetor and intake is considered spacer and cannot exceed 1" total.
- (vii) Directional spacers OK.
- (viii) All intakes must be from a recognized name brand intake manufacturer, ex Edelbrock, Brodix, Holley, Weiand, etc. MUST have manufacturers name and part number intact and unaltered. NO import manifolds allowed
- (j) Camshaft - Mopar
  - (i) Any flat tappet cam
  - (ii) Stock diameter lifters ONLY .904", OEM size to make of engine, NO ceramic foot lifters allowed, all lifters must have a magnetic base.
  - (iii) NO roller cams or lifters
  - (iv) Cast iron stick ONLY, NO billet cams.
- (k) Timing Gears - Mopar
  - (i) Timing chain and gears ONLY
  - (ii) NO gear drives, or belt drives
- (l) Carburetor - Mopar
  - (i) Any 750 cfm with 750 base plates with all ventures throttle shafts and butterflies meeting factory specs. Will be checked with go no go gauges.
  - (ii) May remove choke butterfly.
  - (iii) May drill idle holes in primary butterflies. There should be No half, or flat throttle shafts in the primary side of the carburetor's base plate.
    1. The primary throttle shaft, with a 172 butterfly should be a minimum of .1868" thick
    2. The secondary round shaft, with a 172 butterfly should be a minimum of .1828" thick.
    3. The secondary half or flat shaft with a 172 butterfly, should be a minimum of .1228 thick.
    4. Billett base plate allowed must meet factory Holly specs. On throttle bores, and above throttle shaft specs. Note: Checked with go-no-go gauges
  - (iv) May install secondary jet metering plate, Billet metering plate allowed.
  - (v) 3310 Holley May NOT remove choke horn.
  - (vi) NO porting or polishing.
  - (vii) Ford 735 c.f.m. OK, Secondary Throttle screw OK.
  - (viii) Four corner idle OK
  - (ix) Carbs checked with Go-No-Go gauges.
- (m) Fuel Pump and Fuel Cell - Mopar
  - (i) Belt driven okay.
  - (ii) No electric fuel pumps
  - (iii) Steel case on fuel cell recommended
- (n) Water Pump - Mopar

- (i) Stock mount ONLY.
- (ii) Electric fans OK
- (o) Ignition - Mopar
- (i) Any battery operated.
- (ii) No crank trigger ignition, & No Magnetos
- (iii) NO Electronic Traction Control device.
- (iv) MSD Boxes may not be mounted in driver's cockpit.
- (p) Radiator - Mopar
- (i) Must be close to stock location, mounted in front the motor.

### **Chassis**

- (i) Any Late Model Chassis allowed, Stock Clip, Square tube or Round tube. NO aluminum frames or front clips on chassis, square tube frames must be a minimum of 2"x 2" tubing, round tube must be a minimum of 1 ¾" tubing.
- (ii) Full racing roll cage mandatory, 1 ½ OD x .090 steel tubing minimum.
- (iii) Engine Location, 6 1/2" from center of cross member to #1 spark plug on stock clip cars, 6 1/2" from center of upper control arm mount to #1 spark plug on full jig cars or 25 ½" from mid plate to center of upper control arm mount measured on left side only, ½" tolerance. 50lb penalty per full inch that engine is set back to far, weight must be mounted in front of engine block. Ex. Engine set back 8" or 27" must add 50lb in front of motor, 9" or 28" 100lb in front of motor.
- (iv) All frame and chassis components must be welded or bolted together. No sleeves, slip couplings, etc.

### **Shock and Suspension Rules**

These shocks have been banned from competition with the Southern Clash Late Model

- (i) Thru-rods style
- (ii) Crossover, in which two shocks work in tandem
- (iii) Shocks adjusted electronically via cell phone apps
- (iv) Penske's Cambridge University-developed inverter shock
- (v) NO AIR SHOCKS/ NO AIR DEVICE/AIR DUMPS

-No cockpit or driver adjustable shocks, hydraulic or pneumatic weight jack, trackers, MSD boxes or similar adjustable components of any kind are permitted. Taping over of any adjuster is not permitted. The offending component must be removed from the cockpit. No data acquisition devices allowed.

-Shocks will be checked not just during pre-race tech, but may also be checked at any time by, after qualifying, heat races, B Mains and feature event.

-STANDARD LATE MODEL SUSPENSIONS ONLY. NO SPRING LOADED OR SHOCK TYPE 4 BAR RODS. ONLY STANDARD SOLID BAR 4 BAR RODS. NO TORSION BAR FRONT OR REAR SUSPENSION. SWAY BAR OK.

-STANDARD ONE-PIECE BIRD CAGES, NO SPLIT BIRD CAGES.  
-STANDARD LATE MODEL SUSPENSIONS EQUALS, 1 SHOCK PER WHEEL, EXCEPT LEFT REAR. LEFT REAR IS ALLOWED TWO SHOCKS, ONE IN FRONT OF REAR END, AND 1 BEHIND. SHOCKS MUST BE MOUNTED VERTICLE TO AXLE TUBE, NOT HORIZONTAL

**Tires:**

- (a) Hoosier, Spec 21, HTS 1350, NRM 70, D55, Crate 21
- (b) No Grooving, No treating, No needling
- (c) Siping is allowed. May groove NRM 70 Only.
- (d) \*\* Tire samples will be taken at selected events\*\*

**Body:**

- Stock appearing aftermarket accepted. May be made of steel, aluminum or fiberglass.
- NO wedge style bodies. NO roof mounted wings or spoilers allowed.
- Nose and roof must match body style.
- Floorboards, and fire wall must cover the driver's area and be constructed to provide maximum safety.
- Driver's seat must remain in same general area as the general design..
- Windshield screen or bars are mandatory.
- Numbers and Lettering should be neat, numbers should be at least 18" high, and are required on doors and roof.
  - NO fins or raised lips of any kind permitted anywhere the entire length of car. Body line must be smooth and even line from front to rear.
  - NO bump bars of any kind.
  - All body measurements one-inch maximum tolerance.
  - No wings or tunnels of any kind are permitted underneath the body or chassis of the car. A maximum of one (1) stone deflector. The deflector may be made of steel, aluminum, carbon fiber, or heavy gauge wire. Can run from rear of motor mount to in front of the four bar brackets not to cover bracket. Not to be above the top frame rail. Not to exceed below the bottom frame rail.

**Nose Pieces:**

- (i) Must have stock nose. NO wedge noses.
- (ii) Must be made of molded type material. 20" bottom to top.
- (iii) Two-piece nose must be fastened together in center, NO spacers to gain width. Must mounted not to alter original shape.
- (iv) No cutting from bottom or sides. NO adding to bottom at frontal area to achieve lower ground clearance.
- (v) Stock nose piece can extend a maximum of 50" from center of front hub to farthest point extending forward.

(vi) Front fender flairs must be made of plastic and can NOT alter shape of original nose piece. They can extend beyond front tire width with wheels pointed straight and must have collapsible support. (No steel supports)

(vii) GM cars must run GM nose piece (ex. Monte Carlo), Ford cars must run Ford nose piece (ex. Mustang), Mopar must run Mopar nose piece (ex. Charger)

### **Roofs and Roof Supports:**

(i) Must be stock appearing and mounted level. 45" minimum height from ground

(ii) Must be mounted parallel to body and near center of car.

(iii) Minimum material 41" long by 46" wide. Maximum material 45" long by 54" wide. NO lips on rear of roof.

(iv) Fiberglass roofs OK.

(v) All roof side panels must extend to edge body. Rear roof supports (C pillars) may be curved, no more than 3" of curve at widest point, measured with a straight edge from roof edge to body edge. Supports must be max. of 18" at top where mounts to roof, tapered to max 3" high at rear of support, with base or bottom a maximum of 40" long. If rear supports have window opening, both must be either open, or closed, NOT 1 open and 1 closed.

(vi) Any sun shields (4" maximum) must be hinged for easy exiting..

(vii) Front roof supports can be no more or less than 2" wide by 24" long must be flat, no arched roof supports on front.

### **Front Fenders and Hood:**

(i) Must be level and flat from left to right side of car.

(ii) Fenders cannot gain height from rear to front of car.

(iii) NO part of fenders or hood can be below outside body line.

### **Doors:**

(i) At NO point can door side break inward toward center of car.

### **Interior:**

(i) Interior may be dropped inward to the middle of the car no more than 3" below the top of the doors and must be at least 12" below the roll cage, (1" tolerance).

(ii) Interior must gradually taper up to the quarter panel height, and be level for 32" from the rear of the quarter panel.

(iii) Interior (decking) must be fastened flush at the top of the doors and quarter panels, and may taper gradually towards the center of the car, not creating a lip effect, with a minimum of 8" taper

### **Quarter Panels:**

- (i) NO offset quarter panels, except equal taper towards the center of the car.
- (ii) Tire clearance from body must be at least 2". NO wheel skirts.
- (iii) At NO point can quarter panels break in towards center of car.
- (iv) Quarter panels should measure a Maximum of 46" from center of rear end to rear edge of quarter panel, 52" maximum from center of rear end to top corner of quarter panel where spoiler mounts. Quarter panels must be a maximum of 39" high from ground to top rear corner of quarter panel. (all measurements 1" tolerance)

### **Spoiler:**

- (i) Rear spoiler must be manufactured of a sturdy material such as lexan, or aluminum.
- (ii) Rear spoiler material can be 8" wide maximum of total material, measured from deck to tip of material. Maximum width of spoiler is 72" wide.
- (iii) Rear spoiler cannot be mounted above the deck to create a wing effect.
- (iv) Spoiler must begin where quarter panels end. NO extended decks.
- (v) Spoiler supports must be a maximum of 18" long across bottom, measured where support meets deck. Maximum 3" high in front, and a maximum of 8" at its highest point, at rear measured from top of rear deck. Supports may be squared off at top of support at the rear, 6" wide maximum. Top edge may have rolled or lipped a maximum of 1" for added strength and support.
- (vi) 604 Crate 12-inch spoiler.

### **Safety Rules:**

#### **General Safety Rules**

- A.** Each competitor is solely responsible for the effectiveness and proper installation, per the manufacturer's specifications, of personal safety equipment and determining it to be adequate for competition at every event. Each competitor is expected to investigate and educate themselves for continuing improvement regarding their own personal safety equipment.
- B.** Different safety regulations may be in place depending on the local and/or state government rules and/or laws and/or regulations in the specific location of the racetrack. Helmet and seatbelt dates and/or specified equipment requirements, worn, utilized and/or otherwise may be different than specified in the rulebook. Contact your local track officials for more information regarding this.
- C.** All participants are solely responsible to meet the requirements in the specific division.

#### **Seat Belt and Restraint System**

- A.** Each car must be equipped with minimum of an SFI 16.1 or SFI 16.5 approved restraint system. Restraint system will be eligible for use in competition until the expiration date or for 2 years from the date of manufacture. Seat belt restraint systems shall be installed and used in accordance with manufacturer's instructions.
- B.** In any type of manufacturer's installation, the fasteners must be as supplied by the manufacturer.
- C.** Seat belt material should not be permitted to come in contact with any sharp or metal edge, including when the material passes through the seat.

## **Protective Clothing**

**A.** All drivers will be required to wear a fire-resistant driving uniform meeting minimum of the SFI 3.2A/5 specifications and display a valid SFI 3.2A/5 label on the outside of the uniform. Damaged uniforms will not be allowed.

**B.** Drivers must wear gloves at all times they are on track. Driver's gloves must meet or exceed the SFI 3.3 specification and have a legible and valid SFI 3.3 label.

**C.** Drivers must wear shoes that meet minimum of the SFI 3.3 specifications and display a valid SFI 3.3 label.

## **Seats**

**A.** All current seats must be full containment type constructed of aluminum or approved carbon fiber and must adhere to the general design specifications of SFI 39.2 seat construction standards. Design shall include comprehensive head surround, shoulder, and torso support system, energy impact foam, and removable head foam.

**B.** Carbon fiber seats must have a current valid SFI 39.2 certification.

**C.** Up fitting a current seat with bolt on kits will be permitted with a seat manufacturer produced kit and an acceptable base seat approved by the seat manufacturer. Components must include comprehensive head surround, shoulder and torso support system, energy impact foam. Must be installed in accordance to seat manufacturer's instructions. Combining components may not meet SFI 39.2 Certification.

**D.** Seats must be used as supplied and installed following instructions provided by the seat manufacturer.

**E.** If the left side head surround is 7"-inches or less when measured from the back of the headrest, then a left side head net meeting the SFI 37.1 must be installed with a quick release latch. A minimum left side head surround of 4"-inches is required.

## **Helmets**

**A.** All drivers must wear a full-face helmet with a minimum safety rating of FIA 8860-2010, FIA 8860-2018, Snell SA 2015, Snell SA 2010, Snell SAH 2010 and/or a valid SFI 31.1/2005 label.

## **Head and Neck Restraints**

**A.** Drivers, at all times they are on the track, must have their helmets correctly (following manufacturers installation and use instructions) connected to an approved head and neck restraint.

**B.** The head and neck restraint must be SFI 38.1 approved and display a legible and valid SFI 38.1 label.

## **Fire Suppression (There will be a 25lb. weight break given for a 10lb Fire Suppression System)**

It is highly recommended that all racecars shall be equipped with a thermally deployed SFI 17.1 specifications 10lb automatic fire suppression system.

## **Other:**

\*Tires & Fuel will be sampled.

\*We will be firm in this. We will always tire sample the winner and will have random throughout the field on any given night.

\*Tire Protest: Must be within the top 5 to protest test. Cost is \$150 per tire.

\*Transponder must be mounted on the right rear axle tube.