



Western Speedway
Western Promotions Ltd.
2207 Millstream Road
Victoria, B.C. V9B 0J7
Phone: 250-361-6359

Western Speedway Street Stock/Stock Car Rules

(Last updated June 22, 2019)

General

1. Interpretation of these rules is at the discretion of Western Speedway. Their decision is final.
2. These rules are designed to be restrictive. This is a Street Stock/Stock Car class. All interpretations of rules are to be made by Western Speedway. If you are unsure of how to interpret a specific rule, please ask for clarification. Each Racer is responsible for knowing and understanding the rules.
3. In the event that a ruling needs to be made in regards to something that isn't specifically covered in the rules, Western Speedway will consult with Drivers/Owners, and appropriate 3rd parties to determine the most fair decision.

Running Rules

1. Please see Western Speedway Running Rules

Transponders & Raceceivers

1. Transponders and Raceceivers are mandatory
 - a. Transponders must be on your car at all times, including all practice sessions.
 - b. Any driver found to not have an operational raceceiver is subject to loss of points or being parked.
2. Transponders should be mounted on the right rear frame rail 12" behind the axle centreline.

Driver Safety & Eligibility

1. Safety:

- a. Head & Neck restraints are mandatory.
- b. Full containments seats are mandatory
- c. Aluminum racing seats are required and must be mounted directly to the roll cage with a minimum of 4 - $\frac{3}{8}$ " steel bolts with large fender style washers. 2 in the driver seat area, and 2 in the driver shoulder area.
- d. Roll cage padding or matting is mandatory on all bars within reach of the driver.
- e. A minimum of a five point 3" wide Seat Belt harness is required. Must be manufactured for racing use. Must be properly mounted to the roll cage utilizing manufacturer guidelines.
- f. Seat Belt Harnesses must have date tags and cannot be more than 5 years old. Belts without date tags will be considered expired.
- g. Window nets are mandatory. Must be properly mounted to the roll cage and fill the window opening appropriately. Latch must be a metal to metal harness style seat belt mechanism.
- h. Minimum single layer nomex driving suits are mandatory. Double Layer suits and fireproof underwear highly recommended.
- i. Fireproof racing shoes are mandatory.
- j. Fireproof racing gloves are mandatory.
- k. Steering Wheel pads are mandatory.
- l. Snell 2010 or newer full face helmets are mandatory. No motorcycle helmets.
- m. Each Car MUST have a minimum 2 lbs Dry Chemical Fire Extinguisher mounted with a quick release bracket inside the driver compartment within reach of the driver.

2. Eligibility:



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- a. All competing Driver's must be in good standing with Western Speedway.
- b. Driver changes during an event night are not allowed, unless approved by Western Speedway.

Championship Eligibility

1. Single & Multi Driver teams are allowed
 - a. Single Drivers:
 - i. Single Drivers are allowed a maximum of 2 backup driver's per season.
 - ii. A valid reason (health, work, financial, family) must be presented and approved by Western Speedway for the use of a backup Driver to be approved.
 - iii. All backup Drivers must be approved by Western Speedway
 - iv. Extenuating circumstances beyond what is outlined here will be reviewed by Western Speedway & Stock Car Owners/Drivers.
 - b. Multi Driver Teams:
 - i. Driver Teams will be acknowledged as such. A single driver will not be given credit for accomplishments of a Driver Team.
 - ii. Driver Teams must register at the beginning of the season.
 - iii. Driver Teams are not allowed backup drivers
 - iv. Extenuating circumstances beyond what is outlined here will be reviewed by Western Speedway & Stock Car Owners/Drivers.

Body

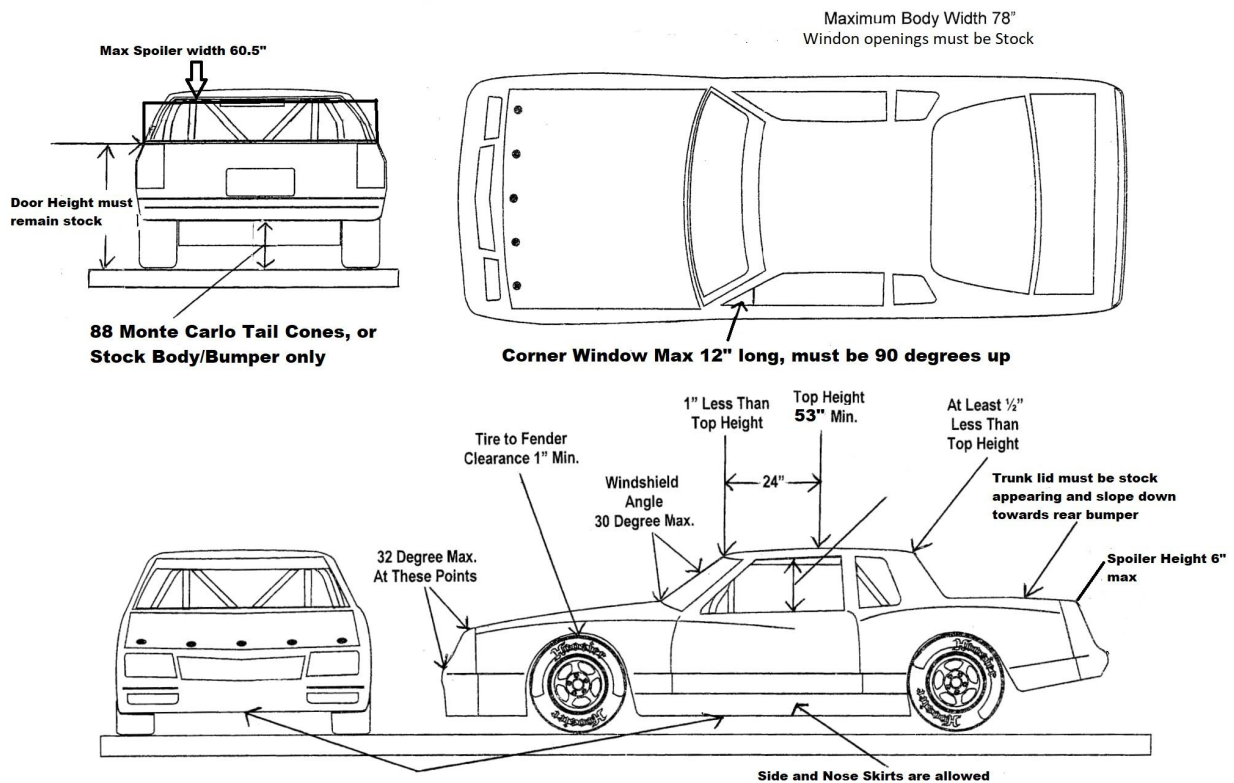
1. North American Stock Production cars only.
2. Camaro's, Firebirds, Trucks, Convertibles, & Station Wagons are not allowed.
3. An aftermarket firewall and cockpit/floor pan may be used. Must be constructed using same gauge steel as stock.
 - a. Cars using this option must mount a 15lbs blocks of lead on the chassis A & B post just above the stock frame.
 - b. This is not a weight penalty, it is just a mandatory lead location.
 - c. See Roll Cage diagram
4. All body parts must utilize factory stock or same as stock replacement steel: roof, quarter panels, front fenders, & hood. Skinning of hood & fenders is allowed.
 - a. Cars that have a skinned roof and upper quarter panels must mount a 15lbs block of lead on the middle of the bar that spans the main hoop.
 - b. This is not a weight penalty, it is just a mandatory lead location.
 - c. See Roll Cage diagram
5. Aftermarket doors, trunk lid, nose cone, & tail cones are allowed.
6. All aspects of the body must be mounted at stock height and location. No chopping, channeling, or altering body from stock appearance.
7. Front & Rear Firewalls, as well as floor boards must be completely sealed for Fire Safety.
8. Stock Windshield or replacement Lexan is required.
9. Quarter Panel windows are allowed
10. Rear windows are allowed. Must be clear. No tinting.



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11. Side windows are allowed, but must be a maximum of 12" long, measured from the intersection of the A-post and door.
12. 1" x 2" Rub Rails are allowed. Each end must be tapered and have a welded cap.
13. Rear spoiler is allowed. Max 6" tall, 60.5" wide.
14. See G-Body Dimension Sheet

Metric Body Dimension Sheet



Frame/Chassis

1. Cars must utilize a North American Stock Production frame/chassis (1965 or newer) 108" Minimum wheelbase.
2. Stock unaltered OEM frames with original OEM suspension mounting locations ONLY. Wheelbase must remain Stock unaltered for frame being used.
3. Minimum 6" Frame Height. Measured to the bottom of the frame at the body mount holes. Driver out of car.
4. All cars must use a stock or fabricated stock style transmission crossmember in stock location. Notching for exhaust pipe clearance is allowed.



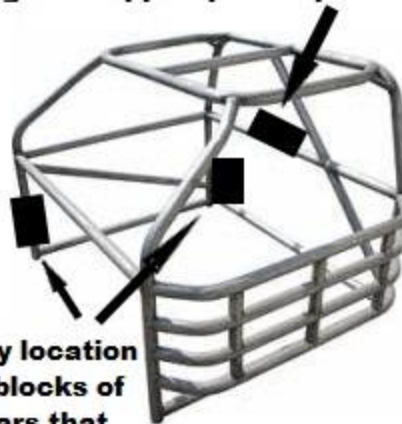
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5. Stock C-channel frame extending from front to rear clips on full frame Cars may be boxed or connected from side to side with an "X".
6. Uni-body cars may install subframe connectors.
7. Fabricated rear clips are allowed on coil spring cars, but cannot extend further forward than the axle centreline.
8. Fabricated rear clips are allowed on leaf spring cars. Front and rear spring mounts must remain at stock datum points.
9. Jacking bolts are NOT permitted.

10. Roll Cage Specifications:

- a. Roll Cage Diagram

Mandatory location for 15lbs block of lead for cars that have gutted upper quarter panels and roof



Mandatory location for 15lbs blocks of lead for cars that are tunneled

- b. Roll cages must be constructed in a similar design to the diagram above.
- c. Minimum material diameter is 1.75" round tubing
- d. Minimum wall thickness tubing is 0.095"
- e. ERW tubing is acceptable, DOM or equivalent is strongly recommended.
- f. Front and rear bay/bracing bars can be designed as you see fit. Using a weaker tubing is strongly suggested, to create a crush area in front of and behind the driver to ensure safety.

Suspension

1. All steering components must be stock and maintain stock dimensions to frame being used.
2. All control arms must remain stock. (Front & Rear)
3. Offset (problem solver) Cross shafts are allowed in upper control arms.



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4. Spindles must be stock to manufacturer. No drop Spindles
5. Same as stock replacement Urethane bushings are allowed. No steel bushings.
6. Stock dimension to frame replacement ball joints are allowed.
7. **Springs:**
 - a. Must remain in stock location.
 - b. Racing springs are allowed.
 - c. Coil springs must be a minimum of 5" diameter.
 - d. Adjustable spring spacers are allowed.
 - e. Adjustable leaf spring shackles are allowed.
 - f. Lowering blocks are allowed.
8. **Shocks:**
 - a. Racing shocks are allowed.
 - b. Recognized manufacturers will be AFKO, PRO, & INTEGRA
 - c. Maximum allowable valving stiffness is a 7.
 - d. Maximum 1 shock per wheel.
 - e. Steel body only. No remote reservoirs.
 - f. Must be a Non-adjustable, Non-rebuildable, sealed shock.
 - g. No high pressure gas shocks.
 - h. Relocation of shocks is allowed.
 - i. Mounting of shocks through the upper control arms is not allowed.
9. **Sway bars:**
 - a. Must be stock and mount in stock OEM location with stock style bushings and brackets.
 - b. Adjustable sway bar links are allowed.

Brakes

1. Front Calipers must maintain all stock dimensions for spindle being used.
2. Rotor/Hub must be Stock or same as Stock replacement. $\frac{5}{8}$ " Wheel studs and 1" lug nuts are mandatory. Thread on Studs must completely pass through Lug nuts.
3. Rear brake shoes & drums must remain stock for frame being used on all rearend options.
4. Master cylinder must be stock. Multiple master cylinders are NOT allowed.
5. Proportioning valves are allowed.
6. Steel braided flex brake hoses are allowed.
7. No aluminum brake parts are allowed.

Transmissions & Rearends

1. **General:**
 - a. All Driveline components must be Stock, or approved stock replacement.
 - b. Stock steel driveshafts only. Universals may be changed to work with ford 9" rearend.
2. **Automatic Transmissions:**
 - a. Must be a stock production transmission with stock gear ratios.
 - b. Functionality must remain stock.
 - c. Removal of any gears including reverse is not allowed.
 - d. Stock operational torque converters only.



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- e. Torque converters must be a minimum of 11" diameter.
- f. Oil coolers are allowed.

3. Standard Transmissions:

- a. Must be a stock production transmission with stock gear ratios.
- b. Functionality must remain stock.
- c. Removal of any gears including reverse is not allowed.
- d. Clutch:
 - i. Must be stock style & weight.
 - ii. Flywheel must be stock, unaltered, & a minimum of 10.5" diameter.
 - iii. No exotic clutch kits
 - iv. Hydraulic or mechanical release bearings are allowed.
- e. Bellhousing must be a Steel scattershield.
 - i. A fabricated 3/16" steel 180 degree shield around a cast bellhousing will also be allowed.

4. Stock Rearends:

- a. Rearend housings must be unaltered stock.
- b. Rearend housing must be stock for frame being used.
- c. Fabricated spring & shock mounts are allowed.
- d. Must use stock style (rubber or urethane) bushings in housing. NO steel.
- e. Rearends must be Open (operational spider gears), or locked.
- f. Mini Spools are allowed.
- g. "C" clip eliminators are allowed.

5. Ford 9" Rearends:

- a. The only approved 9" housings are the Quick Performance style G-body replacement, or a locally fabricated 9" housing jigged from a Western Speedway Spec'd Quick Performance housing. These housings are a direct replacement for a GM 10 bolt. They have the exact same pickup points.
- b. It is Mandatory to contact Daryl Crocker (250-361-6359 or daryl@westernspeedway.net) to discuss the ordering/building process.
- c. Rearend housing must remain as produced. Alterations are not permitted.
- d. 3rd Member Gear set must use a stock steel case & full weight steel spool.
- e. Lightweight axles are not permitted.
- f. Must use stock style (rubber or urethane) bushings in housing. NO steel.
- g. Please contact Western Speedway management Technical officials if you wish to use a Ford 9" in a chassis other than a GM G-body.

Weights

- 1. 3200lbs. Base weight minimum at all times, including after the race with driver (no refueling after the race)
- 2. Metric Cars with stock firewall, floor pan, metric spindles, automatic transmission, and stock rearend will receive a 50lbs. weight break, OR 1% extra rear weight.
- 3. Races longer than 50 laps will have a 1lbs. per lap over 50 laps allowance.
- 4. 55.0% Maximum left side weight at all times.
- 5. 48.0% Maximum Rear weight at all times.

Electrical



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1. Batteries must be securely mounted in an angle iron or equivalent base utilizing a bolt on clamp style mount to hold battery in.
2. Marine style battery boxes are mandatory if the battery is mounted in the driver compartment.
3. All cars must have a Battery master disconnect On/Off switch mounted to the right rear side of the main cage/main hoop. It must be clearly marked On/Off. The disconnect MUST be used to break power in the positive battery cable, not the negative.
4. All cars MUST be wired in a manner that if the Battery disconnect switch is turned off the car will not continue running.

Tire & Wheels

1. Maximum 8" wide steel racing wheels only. No stock or homemade wheels.
2. Wheels must have a Minimum 2" backspace.
3. Bleeder Valves are not allowed.
4. Maximum of 1/2" wheel spacer per wheel is allowed.
5. Hoosier 970 Tire is mandatory. Please see Tire usage sheet.
6. Altering of Tires in any manner to obtain a performance advantage is NOT allowed. NO exceptions.
7. Qualifying Tires must be used for all points paying events throughout the event night.
8. Right side tires must be a 27.0" tall tire
9. Left sides can be 26.5" or 27.0"

Fuel

1. A commercially manufactured fuel cell is mandatory. Max 22 US gallons
2. Must be specifically designed and manufactured for racing.
3. A minimum 20 gauge steel fuel cell container is mandatory.
4. Rollover/check valve balls are mandatory on all tank lines.
5. Cell must be mounted between the rear frame rails of the chassis, no lower than 12" from the ground.
6. A square tubing cage, or equivalent angle iron & flat bar mounting system is mandatory.
7. A fuel cell protection bar is mandatory.
8. Pump or Race fuel only. No alcohol or exotic fuels.
9. Any mechanical fuel pump allowed. No electric pumps.

Engine Rules

1. MSD Rev Limiter:

- a. All engine packages must utilize a MSD part #8278 rev limiter with a RPM chip.
 - i. GM Crate Engine - 5500 RPM
 - ii. Built Engine - 6500 RPM
 - iii. All wiring for rev limiter must be clearly visible and traceable for tech.
 - iv. Must function at all times. No exceptions.

2. Package A - Built Engines.

a. General:

- i. Unless specifically identified in these rules all parts must be automotive OEM Stock or OEM replacement for engine being run.



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- ii. Marine parts are not acceptable replacements for automotive OEM stock.
- iii. GM, FORD, & CHRYSLER performance racing parts are not acceptable replacements for automotive OEM stock.
- iv. Two side by side Intake Manifold bolts must have pre-drilled heads for Tech to install a seal.
- v. Engine must be Corporation to Corporation with chassis being used and mounted in stock location.
- vi. Any steel wet sump oil pan is allowed.

b. Engine Blocks:

- i. Cylinder deck may be machined for clean up and truing only.
- ii. Zero decking is not allowed.
- iii. No lightening or altering of engine blocks.
- iv. Aftermarket steel Main caps are allowed.
- v. Camshaft tunnel must remain of stock dimensions.
- vi. Displacements are as follows: (bore x stroke + overbore = Max Displacement)
 - 1. Chev 350 c.i. 4.00" x 3.48" + .060" = 360 c.i. MAX
 - 2. Ford 351 c.i. 4.00" x 3.50" + .060" = 363 c.i. MAX
 - 3. Chry 340 c.i. 4.04" x 3.313" + .060" = 350 c.i. MAX
 - 4. Chry 360 c.i. 4.00" x 3.578" + .030" = 364 c.i. MAX
- vii. Lifter bores must remain stock size:
 - 1. Chev 350 = .842"
 - 2. Ford 351 = .874"
 - 3. Chry 340 = .904"
 - 4. Chry 360 = .904"
- viii. Steel timing chain and gears only.

c. Camshafts & Lifters:

- i. Hydraulic Camshafts only
- ii. Hydraulic lifters only
- iii. Anti pump up lifters are allowed
- iv. Lifter diameters must remain stock for engine block being used.

d. Crankshafts:

- i. Stock OEM or aftermarket Stock Style replacement crankshaft, minimum weight 48.5 lbs, are allowed.
- ii. Stock stroke must be maintained.
- iii. No strokers or lightweight cranks allowed.
- iv. Recognized part #'s are as follows:
 - 1. Scat 4-350-3480-5700
 - 2. Scat 9-10442
 - 3. Eagle 4305348057sp*
 - 4. Eagle 435034805700
 - 5. Eagle 103503480(CM)



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- v. If you choose to use a crankshaft other than one of the recognized Part #'s provided, it is your responsibility to present it to Western Speedway Management/Tech for approval BEFORE use.
- e. Connecting Rods:**
 - i. Stock OEM or aftermarket replacement rods are allowed.
 - ii. Eligible aftermarket Part #'s:
 - 1. Eagle SIR5700BBLW
 - 2. Eagle SIR5700BPLW
 - 3. SCAT ICR5700P
 - 4. SCATICR5700
 - iii. OEM rod length must be maintained at all times.
 - iv. No lightweight aftermarket rods allowed.
 - v. Balancing of rotating assemblies is allowed. No removal of serial numbers or manufactures emblems.
- f. Pistons:**
 - i. Flat top or Domed pistons are allowed.
 - ii. Flat top pistons must be used with cylinder heads having a chamber size less than 76cc
 - iii. Domed pistons may be used with cylinder heads having a chamber size of 76cc or greater.
- g. Cylinder Heads:**
 - i. Unaltered stock cast iron O.E.M. production cylinder heads only. Cylinder heads showing any signs of alteration in anyway other than outlined in the rule book, will be deemed illegal.
 - ii. Machining for screw in studs and guide plates is allowed.
 - iii. Opening of push rod slots in cylinder heads is allowed.
 - iv. Steam relief holes may be drilled to a larger size. Multi angle valve job permitted.
 - v. New valve seats are allowed.
 - vi. No grinding or blending of bowl into bottom cut of valve job.
 - vii. No titanium or hollow stem valves.
 - viii. Maximum Valve Sizes are as follows:
 - 1. G.M. 1.94" intake 1.60" exhaust
 - 2. Ford 2.04" intake 1.66" exhaust
 - 3. Chrysler 2.02" intake 1.60" exhaust
 - ix. Stock diameter replacement valve springs and retainers or Comp valve springs part #26981 with retainer part #787 hardened keepers are allowed.
 - x. Rocker arms must be unaltered Stock or Stock replacement. No Roller Rockers of any kind.
- h. Water Pump & Pulleys:**
 - i. Stock standard length cast iron water pumps only.
 - ii. Stock or aftermarket pulleys are allowed.
 - iii. Aftermarket reduction pulleys are not allowed. 1:1 ratio only.
- i. Intake Manifold:**
 - i. Stock unaltered Cast iron 2bbl intake manifold only.
 - ii. Stock highrise/marine manifolds are not allowed.



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j. Distributors:

- i. Stock style & functioning HEI distributors only.
- ii. MSD part # 8362 is the only aftermarket distributor allowed.
- iii. Accel Module part # 35361 is allowed.
- iv. Vacuum advance may be disabled or removed.

k. Carburetor:

- i. Stock unaltered 2bbl carburetors only.
- ii. 1 11/16 inch max throttle bore size.
- iii. Carburetor spacers are not allowed.
- iv. Carburetor adapters are not allowed.
- v. An air cleaner is mandatory.
- vi. Air cleaner base must be round and may not be any bigger than a 16" diameter.
- vii. Ram air induction, fresh air ducting, cowl induction, or modified air cleaner bases are not allowed.

l. Exhaust:

- i. Stock unaltered cast iron exhaust manifolds or Schoenfeld part# 185 headers only. 1 tube on passenger side is allowed to be altered.
- ii. Maximum exhaust pipe size for cars using manifolds is 2.5"
- iii. Mandatory exhaust pipe size for cars using headers is 3"
- iv. Dual exhaust with 2 mufflers is mandatory.
- v. No crossovers, H-pipes, or 2 into 1 systems.
- vi. Cars must be no louder than 90 decibels @ 100ft at all times.
- vii. Recommended Mufflers are as follows:
 - 1. 2.5" Hooker part # 21602
 - 2. 3" Hooker part # 21605

m. Alternators & Power Steering Pumps:

- i. Alternators and power steering pumps are not mandatory.
- ii. Any alternator is allowed. Must be driven off the front of the engine.
- iii. Stock or aftermarket cast steel power steering pumps are allowed. Must be driven off the front of the engine.

3. GM Circle Track 602 Crate Engine

a. General:

- i. The GM 602 part #88958602 or #19258602 are the only crate engines allowed.
- ii. GM part # 14088765 counter balanced flexplate is suggested.
- iii. Western reserves the right to take any crate engine at any time and replace it with a new one.
- iv. Crate engines must remain sealed at all times. Rebuilds are not allowed.

b. Exhaust:

- i. Schoenfeld part# 185 headers only. 1 tube on passenger side is allowed to be altered.
- ii. Mandatory exhaust pipe size is 3"
- iii. Dual exhaust with 2 mufflers is mandatory.
- iv. No crossovers, H-pipes, or 2 into 1 systems.



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- v. Cars must be no louder than 90 decibels @ 100ft at all times.
- vi. Recommended Mufflers are as follows:
 - 1. 3" Hooker part # 21605

c. Carburetor:

- i. Holley Part # 01-80541-1 650 CFM Crate engine Carb only.
- ii. A restrictor plate is mandatory.
 - 1. Size to be determined by Western Speedway
 - 2. Must be purchased from Alien Race Cars (1-250-477-8444)
 - 3. At any time restrictor plates can be swapped amongst competitors or be replaced with a same size plate.
- iii. An air cleaner is mandatory.
- iv. Air cleaner base must be round and may not be any bigger than a 16" diameter.
- v. Ram air induction, fresh air ducting, cowl induction, or modified air cleaner bases are not allowed.

d. Distributors:

- i. Stock style & functioning HEI distributors only.
- ii. MSD part # 8362 is the only aftermarket distributor allowed.
- iii. Accel Module part # 35361 is allowed.
- iv. Vacuum advance may be disabled or removed.

e. Valve Springs:

- i. Replacements springs are allowed. Must be one of the following Part #'s:
 - 1. GM Performance #10212811
 - 2. Elgin #RV943xs (remove inner springs before use)

f. Water Pump & Pulleys:

- i. Stock standard length cast iron water pumps only.
- ii. Stock or aftermarket pulleys are allowed.
- iii. Aftermarket reduction pulleys are not allowed. 1:1 ratio only.

g. Alternators & Power Steering Pumps:

- i. Alternators and power steering pumps are not mandatory.
- ii. Any alternator is allowed. Must be driven off the front of the engine.
- iii. Stock or aftermarket cast steel power steering pumps are allowed. Must be driven off the front of the engine.