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## HOBBY STOCK SPECIFICATIONS

(UPDATED FEBRUARY 2022)

### ENGINES

- a) MAXIMUM CUBIC INCH OF 410
- b) HEADERS ALLOWED CLASSIC 1 5/8-INCH TUBE MUST EXIT UNDER CAR INSIDE FRAME RAILS NO SIDE EXITS OR OVER FRAME HEADERS ALLOWED
- c) GUIDE PLATES ALLOWED
- d) MUST USE STOCK MECHANICAL FUEL PUMP
- e) HYDRAULIC FLAT TAPPET CAMSHAFT ONLY AND FLAT TAPPET LIFTERS MUST BE ABLE TO ADJUST TO FACTORY AND MAINTAIN COMPRESSION MUST BE ABLE TO HOLD 14 INCHES OF VACUUM AT 1000 RPM
- f) ROLLER ROCKERS ALLOWED
- g) ANY CAST IRON CYLINDER HEAD WITH FACTORY VALVE LOCATION
- h) MINIMUM COMBUSTION CHAMBER SIZE OF 60CC.
- i) INTAKE 2101,2116,2181, OR 2176 EDELBROCK PERFORMER ONLY. NO CUTTING OR WELDING OR GRINDING ALLOWED
- j) STOCK CRANKSHAFT AND RODS AS MANUFACTURED FOR BLOCK USED
- k) GASOLINE OR RACING GASOLINE ONLY NO ADDITIVES (CAM 2, UNION 76 ETC.)
- l) GASOLINE IS SUBJECT TO TESTING AT ANYTIME
- m) ENGINE MUST BE MOUNTED IN FACTORY POSITION
- n) STOCK TWO-BARREL CARBURETOR OR HOLLY 500 2 BARREL WITH CHOKE HORN HOLLY #4412 ONLY
- o) VENTURI SIZE WILL BE CHECKED WITH TRACK GAUGE
- p) TWO-BARREL CARB CAN BE MOUNTED USING AN ADAPTER PLATE
- q) SPACER AND ADAPTER CAN BE NO THICKER THAN 1"
- r) A 1" INSPECTION HOLE MUST BE DRILLED ON SIDE OF OIL PAN FOR INSPECTION PURPOSES ONLY
- s) FLAT TOP OR INVERTED DOME PISTONS ONLY
- t) PISTONS MUST BE AT ZERO DECK HEIGHT OR BELOW THE DECK OF BLOCK AT TOP DEAD CENTER
- u) STOCK IGNITION SYSTEM ONLY. NO MSD OR MSD COMPONENTS ALLOWED OR ANY OTHER PERFORMANCE TYPE OF IGNITION.
- v) FACTORY VACUUM PORT IN CARBURETOR BASE PLATE OR INTAKE MUST BE OPERABLE FOR TECHNICAL INSPECTION AT ALL TIMES

### CRATE ENGINES

- a) PART NUMBER 19258602 ONLY
- b) STAMPS AND SEALS MUST BE IN PLACE
- c) 650 OR SMALLER 4 BARREL CARB

## **TIRES**

- a) STREET TIRE NOT OVER 11" WIDE MUST PUNCH DUROMETER READING OF 66 OR HIGHER.
- b) HOOSIER M30 OR M60 ALLOWED

## **BODIES**

- a) MUST BE STOCK APPEARING BODY
- b) ALL BODY PANELS MUST BE STEEL OR ALUMINUM
- c) USING A STOCK BODY, ALL LINES AND BENDS MUST MATCH OEM BODY
- d) HOOD MUST BE KEPT IN PLACE AT ALL TIMES
- e) BODY SHEET METAL MUST BE KEPT IN PLACE AT ALL TIMES
- f) STOCK TYPE PLASTIC NOSE PIECE WILL BE ALLOWED.
- g) ALL GLASS MUST BE REMOVED
- h) ALL DECORATIVE TRIM, DOOR HANDLES CHROME MOLDINGS ETC. MUST BE REMOVED
- i) NO PLASTIC GRILLS
- j) STOCK APPEARING SPOILERS ALLOWED NO HIGHER THAN 4INCHES
- k) ALL DOORS MUST BE WELDED SHUT
- l) REAR BUMPER COVER MAY HAVE 6 1" HOLES AT TAILLIGHT AREA ONLY
- m) DECK CANNOT RUN THRU INTERIOR OF CAR (HOOD TO TRUNK)

## **INTERIOR**

- a) STEEL FLOOR PANS FROM FRONT FIREWALL TO REAR FIREWALL
- b) REAR FLOOR PANS MUST REMAIN FACTORY DIMENSIONS AND MUST NOT BE MOVED FORWARD AND FACTORY LOCATION
- c) NO BOXING OF INTERIOR, SHOULD ALLOW EASY ACCESS TO DRIVER FROM EITHER SIDE AND BE CLEAR OF MATERIAL OR CONSTRUCTION METHODS THAT COULD CAUSE INJURY TO DRIVER
- d) REAR SEAT SHELF MUST BE LEFT IN AS FIRE STOP OTHERWISE ALUMINUM OR STEEL TYPE METAL FIREWALL MUST BE MOUNTED TO SEPARATE DRIVER'S COMPARTMENT FROM TRUNK AREA (6" INCHES MAX FROM REAR WINDOW OPENING AND ATTACH TO REAR FLOOR PAN AT BOTTOM OF MAIN HOOP OF ROLL CAGE OR AT BACK OF FLOOR PAN).
- e) NO MIRRORS OR 2-WAY RADIOS
- f) STEERING COLUMN MUST REMAIN IN STOCK LOCATION FRONT TO BACK LEFT TO RIGHT
- g) NO STEERING QUICKENERS OF ANY KIND
- h) PEDALS MUST BE IN OR CLOSE TO STOCK LOCATION
- i) NO EXTENDING PEDALS REARWARD
- j) DRIVER'S SEAT SHOULD BE IN SAME LOCATION AS ORIGINAL
- k) SEAT AND SEAT BELT AND APPROVED SHOULDER HARNESS IS REQUIRED
- l) SEAT BELTS ARE TO BE NO OLDER THAN 2 YEARS FROM DATE OF MANUFACTURE
- m) FIRE EXTINGUISHER MUST BE WITHIN REACH OF DRIVER AND SAFELY MOUNTED IS MANDATOR
- n) NO FLUID RESERVOIRS, TANKS OR RADIATORS IN DRIVER'S COMPARTMENT
- o) 24 X24 INCH BY ¼ INCH STEEL OR ALUMINUM PLATE MUST BE MOUNTED INSIDE DRIVER'S DOOR TO PROTECT DRIVER AND IS HIGHLY RECOMMENDED
- p) STOCK FACTORY FLOORBOARDS AND FIREWALL NO EXTENDING DECK INTO INTERIOR OF CAR NO BOXING OF INTERIOR
- q) FLOOR PANS CAN BE REPLACED WITH 16-GAUGE SHEET STEEL TO REPLACE RUSTED FLOOR PANS MUST BE OF FACTORY DIMENSIONS AND RESEMBLE FACTORY FLOOR

## **FRAMES & SUSPENSION**

- a) MUST REMAIN STOCK AND TO FACTORY SPECIFICATIONS

- b) SUSPENSION COMPONENTS: TUBULAR FRONT SUSPENSION UPPER CONTROL ARMS ALLOWED MUST REMAIN FACTORY DIMENSION
- c) NO ADDING SUSPENSION COMPONENTS FROM DIFFERENT MAKES OR YEARS
- d) NO MORE THAN ONE SPRING PER WHEEL AND IN FACTORY LOCATION
- e) COIL SPRING MUST BE FACTORY STYLE
- f) REAR SPRINGS CAN BE 11" TO 13" FREE HEIGHT AND BE 4½ TO 5½ INCHES IN DIAMETER. FRONT SPRINGS ARE 9.5" FREE HEIGHT AND CAN BE 4½ TO 5½ INCHES IN DIAMETER.
- g) SPRING RATES CAN BE SPLIT
- h) NO WEIGHT JACKS
- i) WITH WEIGHT JACKS, MUST BE MADE STOCK LENGTH AND WELDED SO THAT ALL ADJUSTMENT IS GONE
- j) REAR SUSPENSION COMPONENTS MUST REMAIN IN STOCK LOCATIONS ALL SUSPENSION MOUNTING POINTS MUST BE IN FACTORY LOCATIONS
- k) REAR LOWER TRAILING ARMS SHOULD BE 19" IN LENGTH CENTER TO CENTER AND HAVE RUBBER BUSHINGS
- l) LOWER TRAILING ARM BRACKETS AT REAR-END HOUSING CAN BE NO LONGER THAN 4 INCHES LONG ALL OTHER HOLES IN BRACKETS MUST HAVE BOLTS INSTALLED
- m) REAR LOWER TRAILING ARMS ON BOTH SIDES CAN BE NO LOWER THAN 2 ½ INCHES FROM BOTTOM OF REAR END HOUSING
- n) IF CAR USED IS MANUFACTURED WITHOUT A FULL FRAME, FRAME MUST BE TIED TOGETHER
- o) STOCK OR STOCK APPEARING SHOCKS ONLY NON-ADJUSTABLE
- p) SHOCKS MUST BE STEEL AND HAVE STOCK TYPE MOUNTS WITH RUBBER BUSHINGS AND NO SPACERS
- q) NO HEIM ENDS ALLOWED ON SHOCKS
- r) ABSOLUTELY NO BUMP STOPS OR ANY KIND OF SUSPENSION LIMITING ON SHOCKS OR SUSPENSION COMPONENTS
- s) NO SHOCK CAN PRELOAD OR PIN ANY SPRING ALL SHOCKS MUST BE ABLE TO COMPLETELY COLLAPSE AT ANY TIME NO SCHRADER VALVE OR ANY TYPE OF VALVE ON SHOCKS NO AIR SHOCKS
- t) MAXIMUM 7" STROKE ON FRONT SHOCKS AND MAXIMUM 9" STROKE ON REAR

## **ROLL CAGE**

- a) MUST HAVE FULL SIX-POINT ROLL CAGE
- b) ROLL CAGE MUST BE WELDED 360 DEGREES WITH GUSSETS AND WELDED TO FRAMES
- c) MINIMUM OF 4 BARS MUST BE USED IN DRIVER'S DOOR
- d) PASSENGER SIDE MUST HAVE TWO OR THREE HORIZONTAL BARS
- e) EACH BAR MUST BE A MINIMUM OF 1 ½ INCH DIAMETER WITH A MINIMUM WALL THICKNESS OF .095
- f) TWO BARS CAN EXTEND INTO ENGINE COMPARTMENT AND TRUNK AREA
- g) ROLL CAGE SHOULD BE PADDED IN AREAS WHERE DRIVER MAY COME INTO CONTACT
- h) ALL DOORS MUST BE WELDED SHUT

## **WHEELS**

- a) 15X8 STEEL RACING WHEELS ONLY ARE PERMITTED WITH A 3" OFFSET ON ALL 4 CORNERS
- b) BEAD LOCKS ARE PERMITTED
- c) REINFORCING OF WHEELS, ESPECIALLY ON RIGHT FRONT IS MANDATORY
- d) OVERSIZE LUG NUTS ARE REQUIRED

## **TRANSMISSION AND REAR END**

- a) LOCK REAR END OR WELDED PERMITTED
- b) 9" FORDS ALLOWED
- c) ALL FACTORY MANUAL TRANSMISSIONS LEGAL
- d) TRANSMISSION MUST REMAIN STOCK AND MUST MATCH THE MAKE AND MODEL OF THE CAR (FORD/FORD GM/GM ETC.)

- e) NO DIRECT DRIVE TRANSMISSION SUCH AS BERT, BRINN OR FALCON
- f) AUTOMATIC TRANSMISSION MUST HAVE WORKING TORQUE CONVERTER
- g) TRANSMISSION MUST SHIFT THRU ALL GEARS STARTING OUT IN DRIVE AND WILL BE CHECKED
- h) MUST HAVE FACTORY STYLE SINGLE DISK CLUTCH AND A BLOW PROOF BELL HOUSING AND MANUAL FLYWHEEL MUST BE 10 ½ INCH DIAMETER CLUTCH AND PRESSURE PLATE
- i) MUST HAVE A 1-INCH INSPECTION HOLE IN BELL HOUSING EASILY ACCESSIBLE FOR INSPECTION OF CLUTCH

### **ENGINE LOCATION**

- a) ENGINE MUST BE IN THE ORIGINAL LOCATION FROM STOCK

### **FUEL CELL**

- a) THIRTY-TWO (32) GALLON MAXIMUM SAFETY APPROVED FUEL CELL IN A 20-GAUGE STEEL BOX SUPPORTED BY 2 -1/8 INCH BY 2' STEEL STRAPS TOP AND BOTTOM TO SAFELY SECURE FUEL CELL
- b) FUEL CELL MUST BE MOUNTED SECURELY IN TRUNK AREA OF CAR
- c) FUEL LINES SHOULD RUN UNDER FLOOR OF CAR
- d) IF FUEL LINES RUNS THROUGH INTERIOR, IT MUST BE ENCASED AND SEALED ON BOTH ENDS
- e) BOTTOM OF FUEL CELL CAN BE NO LOWER THAN BOTTOM OF FRAME RAILS
- f) FUEL SHALL BE TESTED AT ANYTIME

### **DRIVESHAFT**

- a) THE DRIVESHAFT MUST BE A MINIMUM OF 2" IN DIAMETER
- b) ALL DRIVESHAFTS MUST BE PAINTED WHITE
- c) ONLY ONE DRIVESHAFT IS PERMITTED
- d) A MINIMUM OF ONE DRIVESHAFT LOOP/SLING MUST BE FASTENED SECURELY TO THE FRAME. IT'S RECOMMENDED THAT 2 DRIVESHAFT LOOPS / SLINGS BE USED
- e) NO ALUMINUM DRIVE SHAFTS
- f) STEEL ONLY

### **BRAKES**

- a) STANDARD PRODUCTIONS BRAKE COMPONENTS ONLY
- b) ALLOWED TO RUN DUAL MASTER CYLINDERS BUT NOT ALLOWED TO HAVE ADJUSTER WHERE DRIVER CAN REACH IT FROM SEAT.
- c) NO BRAKE BIAS OR BALANCE BAR ALLOWED
- d) BRAKES MUST WORK ON ALL 4 WHEELS AT ALL TIMES
- e) NO DRIVER-CONTROLLED BRAKE ADJUSTERS
- f) NO DISC BRAKES ON REAR

### **WEIGHT LIMIT**

- a) A MINIMUM WEIGHT LIMIT IS IN EFFECT
- b) THIS WEIGHT LIMIT IS WITH DRIVER AT THE FINISH OF THE RACE WITHOUT ADDING FUEL
- c) THE WEIGHT LIMIT IS 3000LBS
- d) WEIGHT LIMIT FOR CRATE ENGINES IS 3000 LBS.
- e) IF CAR FAILS TO MAKE LEGAL WEIGHT OR BYPASSES SCALES CAR AND DRIVER WILL BE DISQUALIFIED

### **SPECIAL NOTE**

- a) THE HOBBY STOCK DIVISION IS DESIGNED TO PROMOTE GREATER INTEREST IN STOCK CAR COMPETITION, TO ENABLE THOSE OF MODERATE MEANS TO PARTICIPATE WITHOUT SPENDING A LOT OF MONEY FOR RACING EQUIPMENT.
- b) TECH INSPECTOR HAS FINAL WORD ON ALL RULES.