

CLASS 6100

SPEC TRICK TRUCK WITH SPEC SEALED ENGINE - TRUCKS/SUV'S

GENERAL REGULATIONS

Class entrants shall comply with all class and applicable general regulations. All parts are to be approved by BITD.

COMPETITION REGULATIONS

This is an engine spec class and all components will be considered spec unless it states otherwise within these class rules. Engines will be spec crate engines from Ford & GM manufacturers. Engines must be left "AS DELIVERED" from Turnkey, only modification noted below are allowed. Engines must be sealed and tagged by Turnkey Engine Supply. **Motor must be tagged prior to start of race or penalties up to and including disqualification can be assessed.** Only engine kits listed will be allowed.

All engines regardless of manufacture, Ford or GM, must be purchased through Turnkey Engine Supply. Turnkey Engine Supply will tag and seal the engines before being shipped to the customer. Contact Turnkey Engine Supply for more information.

Contact Turnkey Engine Supply at www.turnkeyenginesupply.com
3915 Oceanic Drive, Oceanside, CA, 92056, 760-966-2663

Note: The SCR abbreviations refer to the cross-reference listings in the front of this book and are part of the class rules. Where a conflict between the cross-referenced listings and a rule contained under this class occurs, the rule contained under this class has precedence.

SAFETY EQUIPMENT

- SCR1: HELMETS
- SCR2: PROTECTIVE CLOTHING
- SCR3: EYE PROTECTION
- SCR4: HEAD AND NECK RESTRAINTS
- SCR5: FIRST AID KIT
- SCR6: BREAKDOWN SAFETY DEVICES
- SCR7: HORNS
- SCR8: REFLECTORS
- SCR9: FIRE EXTINGUISHER
- SCR10: SURVIVAL SUPPLIES

SUSPENSION COMPONENTS

- SCR11: SHOCK ABSORBERS & BUMP STOPS
- SCR12: SECONDARY SUSPENSION
- SCR13: WHEELS & TIRES
 - Maximum tire size of 40" tall
 - Knock-off hubs are permitted.

- SCR14: FASTENERS

STEERING & BRAKE COMPONENTS

- SCR15: STEERING
- SCR16: BRAKES

ELECTRICAL SYSTEM

SCR17: IGNITION - Control Packs must have easy access for removal and visual inspection.

SCR18: BATTERIES

SCR19: LIGHTS

SCR20: STARTER

FUEL SYSTEM

SCR21: FUEL

SCR22: FUEL TANKS

Safety fuel cells are required.

SCR23: FUEL FILLER, VENTS & CAPS

ENGINE TRANSMISSION & DRIVELINES

SCR24: ENGINE LOCATION & DISPLACEMENT

Engine is limited to a sealed 8 cylinder. Only those engines listed here are permitted. See below list. All engines must be purchased through Turnkey Engine Supply.

NOTE: Starting January 2020 we will only accept the Cup style tag from Turnkey. NO Cable tags will be allowed.

- A) Engines must be mounted in the front of the vehicle like a truck with all pulleys facing forward. No mid-engine **or rear engine** chassis configuration.
- B) **** MUST MAKE VEHICLE ACCESSIBLE FOR REMOVAL OF VALVE COVER, ACCESS TO THROTTLE BODY, ACCESS TO ECU AND OBD PORTS FOR TECH-INSPECTION.**
- C) **BITD** Approved Engine Types
 1. Ford 5.0L V8 engine kit part number **M-6007-M50C** with wire loom and control pack part number **M-6017-M50B**
 2. General Motors LS3 (430HP) V8 engine kit part number **19370416** with wire loom and control pack part number **19258270 - Upgrade option: GM Cam Shaft part number 88958770** that comes in the GM LS3 (525HP) motor. Turnkey Engine Supply will be the only engine builder allowed to perform this upgrade
 3. Ford 3.5 twin turbo Ecoboost engine
 4. Ford 351 V8 Engine - Kit Part Number **M-6007-S374W**.
 5. Ford Boss (535 HP) - Part number **M-6007-Z2427FFT**
 6. GM LS3 (525 HP) - Part number **19370413** with GM Control Pack Part number **19354332**
 7. GM LT1 - Part number **19416592** with LT1 Control Pack Part number **19417227**. **Can use intake manifold part # 12697714.**
 8. Billet Fuel rails allowed.
 9. Water pumps are open, must be mechanical factory concept, no electric pumps allowed.
 10. **Exhaust manifolds are open to install aftermarket exhaust.**
 11. All Ford Motors are allowed to use either of these two carburetors – 650 CFM Holley part# **80541-1** or 750 CFM Holley part#**80528-1**

All engines regardless of manufacture must be purchased thru Turnkey Engine Supply, i.e., Ford, GM, etc.... Turnkey Engine Supply will tag and seal the engines before being shipped to the customer.

For those vehicles that might already have the larger displacement motors installed and tagged by another engine builder, your vehicle will be legal to compete beginning Jan. 1st, 2020. However, if your vehicle finishes in the Top 10 with another engine company's tag, it may be subject to inspection.

Those vehicles with other engine sealing company's tags will ONLY be honored Jan. 1st, 2020 through August 1, 2020. Beginning August 13, 2020 Class 6100 vehicles will be required to have an engine sealed and tagged by Turn Key Engine Supply to participate.

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SPECIAL NOTE: Spec Engine control module programming open.

Engines must be tagged and sealed by Turnkey Engine Supply who is approved by BITD. Only Turnkey Engine Supply may be used for engine tagging. All parts that come in the engine kit will be considered part of the engine including Intake – upper and lower, valve covers, Oil Pan.

LS engines must use factory GM LS style wet sump oil pan, no aftermarket pans are permitted. GM pans may be modified to fit chassis and add volume. Pans must be inspected and installed by Turnkey when engine is sealed.

Ford: No Dry Sump oil systems allowed. All Ford engines must use wet sump stock oil pan as delivered in the engine kit from the manufacturer. Ford pans may be modified to fit chasses, modified pans must use stock baffling and no increase in volume is permitted. Pans must be inspected and installed by Turnkey when engine is sealed.

GM: No Dry Sump oil systems allowed. All GM engines will be open to any GM wet sump oil pan but must be approved and installed by Turnkey Engine Supply.

No external oil pumps allowed

You may install an external oil cooler and external oil filter but must be done without modification to the engine block or oil system in any way. Oil filter adapters are permitted.

3-Quart oil accumulator is allowed.

GM Engine Only: A race quality harness is an option to use with the required GM Factory ECU.

Also, Engine can have a replacement high volume wet sump oil pump an aftermarket harmonic balancer and timing chain guide. All must be installed by Turnkey Engine Supply before sealing of engine.

SCR25: ENGINE REPLACEMENT – no engine rebuilds are allowed. If engine fails a new engine must be purchased thru Turnkey Engine Supply. See SCR24:

SCR26: TRANSMISSION

All vehicles must use a Turbo 400 automatic transmission only. This will be the only transmission type allowed.

All transmissions must have 3 forward gears and a working reverse.

DIFFERENTIAL

Rear axle assembly must use a light automotive type straight axle housing with standard Ford 9" removal type ring & pinion third member. Standard type bearings, drive plate, floating Hub is to be used. Ring and pinion size, ratio open. Must be approved by

BITD.

No overdrive units allowed. ***** ONLY SINGLE RATIO UNDERDRIVE ALLOWED.**

SCR26.5: 2-WHEEL DRIVE ONLY

(1) One Exception only – Race Vehicle #6130 will be grandfathered into rules, but race vehicle #6130 must comply with the following specifications:

1. Transfer Case must be a one-to-one ratio in high range only. Transfer case must be tagged, sealed and approved by BITD Chief Car/Truck Technical Inspector. 2. Transfer case must have lockout installed for low range.

SCR27: THROTTLES

Fly by wire throttle pedal assemblies must be used if the engine kit is delivered from the manufacturer with electronic throttle pedal configuration.

SCR28: EXHAUST

SCR29: DRIVESHAFTS

SCR30: FLYWHEEL SHIELDS

SCR31: FLUID COOLERS

SCR32: AUXILIARY EQUIPMENT

SCR33: SUPERCHARGERS & TURBOCHARGERS

No Superchargers or Turbochargers permitted in this class

No forced induction system of any kind

VEHICLE SAFETY EQUIPMENT**SCR34: ROLL CAGES****SCR35: SAFETY HARNESS****SCR36: SAFETY NETS****SCR37: SEATING**

Minimum of two (2) and Maximum of three (3) seats may be used but must meet with **BITD APPROVAL**.

GENERAL VEHICLE COMPONENTS**SCR38: DRIVER'S COMPARTMENT****SCR39: DOORS & LATCHES****SCR40: FIREWALLS****SCR41: BALLAST****SCR42: WEIGHT:** No Weight Limit**SCR43: FLOORBOARDS****SCR44: BUMPERS****SCR45: MIRRORS****SCR46: SKID PLATES****SCR47: STORAGE****SCR48: FENDERS**

Vehicle must have fenders. No open wheeled vehicles permitted.

SCR49: CHASSIS & BODY**CHASSIS**

Wheelbase and overall width are open. (Track Width Open)

All vehicles must be configured like a **TRUCK** or **SUV**.

All must use an automotive type straight axle housing and third member with either 3 or 4 link rear suspension configurations.

BODY

Body must resemble a truck *or SUV* and must have emblem of manufacture of type of truck (ie. Ford Oval or Chevy bowtie) Overall **width and length is unlimited**.

SCR50: HOSES**SCR51: IDENTIFICATION MARKERS**

BITD will assign vehicle numbers.

SCR52: ADVERTISING ON VEHICLES**SCR53: WORKMANSHIP****SCR54: RADIO EQUIPMENT**