

# **USA Jet River Racer Series**

## **2019 Race Class Rules**

### **Unlimited Jet Class – 300 Series Numbers (U 300)**

- ❖ Hull any shape or material with a minimum length of 16 feet (4.88 m)
- ❖ Unlimited engine restrictions or modifications, any exhaust c/w mufflers
- ❖ Propulsion – jet drive (Turbine engines, mufflers not required)
- ❖ Roll Bar/Cage – well braced and mounted Chrome moly recommended

### **“A” Jet Class – 200 Series Numbers (A 200)**

**NOTE – These specifications are not valid for World Championship races. Please check with Class Specifications for 2019 International races.**

- ❖ Hull any shape or material with a minimum length of 16 feet (4.88 m)
- ❖ Exhaust – any exhaust c/w mufflers
- ❖ Propulsion – jet drive
- ❖ One of three engine styles:
  - 1) Any naturally aspirated combination at or below 470 CU
  - 2) Forced Induction with up to 380 CU displacement
  - 3) Up to 570 CU displacement meeting the following:
    - a. Iron Block with maximum deck height of 9.800”
    - b. Conventional valve angle heads no less than 24 deg, with a maximum of 0.800’ valve opening
    - c. Cast single carb intake manifold with maximum carb size of 1050 cfm-throttle plate size of 2.00”
    - d. Maximum compression ratio of 10.5 to 1
- ❖ Oxygenated fuel allowed
- ❖ Roll Bar/Cage (well braced and mounted).

## **“CX” Jet Class – 100 to 200 Series Numbers (CX 100 – CX 200)**

- ❖ Hull any shape or material with a minimum length of 16 feet (4.88m)
- ❖ Stock Crate Engine shall be GM(LS3 Engines 376 cu, in.) 480, 515 or CT525
- ❖ Any cfm carburetor, or fuel injection engines with gasoline for fuel, normally aspirated only.
- ❖ Stock crate intake manifold, no port matching on intake or heads, any valve covers
- ❖ Repaired engines must use GM parts pertaining to that engine.
- ❖ Any oil pan (no vacuum or dry sumps allowed), any ignition or distributor, any valve cover.
- ❖ No overbore, no sleeves, no grinding no cutting, no filling, no milling or porting, no balancing or engine modifications allowed, untouched factory heads only
- ❖ Modified cooling systems allowed, air/water bleed ports can be enlarged or added, with or without water pump.
- ❖ No oxygenated fuel allowed.
- ❖ Any exhaust c/w mufflers “SPORATIC TESTING”
- ❖ Propulsion – jet drive
- ❖ Roll Bar/Cage (well braced and mounted) Chrome moly recommended

## **“FX” Jet Class – 01 to 99 Series numbers (FX 99) Crate Motor Class**

**NOTE – These specifications are not valid for World Championship races. Please check with Class Specifications for 2019 International races.**

- ❖ Tunnel hull any shape or material with a minimum length of 16 feet (4.88m) or Vbottom/ Step tech hull any shape or material with a minimum length of 13 ft. (3.96 m) No glass windshields
- ❖ Engine – GM ZZ6 HP CRATE engine (GMPP part number 19351533).
- ❖ Engine – GM ZZ5 355 HP CRATE engine (GMPP part number 19301294).
- ❖ Engine – GM ZZ4 355 HP CRATE engine (GMPP long block part #24502609).
- ❖ Engine – Chevy CT350 Crate Engine (part number 88958603).
- ❖ Engine – Chevy CT400 Crate Engine (part number 19386104).
- ❖ Cylinder Heads: Stock GM ZZ4, GM ZZ5, GM ZZ6 aluminum or the CT350/CT400, no aftermarket cylinder heads allowed. No polishing and/or port work of any kind is allowed.
- ❖ Engine repairs must meet OEM specifications & weights and use GM parts pertaining to that engine No roller rockers allowed and no porting, balancing, port matching or modifications; no overbore allowed, no sleeves, no milling, no valve seat modification, untouched factory heads only.
- ❖ Any ignition system, Any oil pan (no dry or vacuum sumps) any valve covers, Stock GM intake manifold “SPORATIC TESTING”
- ❖ Carburetor – 750 cfm maximum & 1” spacer thickness maximum 3 gaskets (0.60)
- ❖ Exhaust - any exhaust system allowed c/w mufflers
- ❖ Engine shall use gasoline for fuel - No oxygenated fuel allowed.
- ❖ Propulsion – jet drive
- ❖ Roll Bar/Cage (well braced and mounted).

# USA – Club Class

Hull: Coyote Club Class Hull All Spec. No modifications.

Roll Bar: Well braced and mounted steel tube supplied by Gateway Materials Kit #27.

Engine Type: 350/V8/#12530238

Engine: Chevrolet 350 Crate Engine (part number 12530283) restricted down to 50 mph with the use of a restrictor plate or jet size.

Boat Race Numbers: 0-99

Oil Pump: No dry sump or vacuum pumps are allowed.

Oil Pan, Valve Covers and Fluid Damper: All Club class part numbers.

Ignition / Distributor: HEI

Intake Manifold: Club Class part number

Carb: Club Class

Exhaust System: Kodiak 4" exhaust manifold kit #KM3502A.

Fuel: Pump gasoline only.

Propulsion: Legend Club class kit from American Turbine, including intake / #J120-AFA. No modifications to intake grate. Impellor will be a stock aluminum club class cut inspected prior to race and directly after. "Everyone will have the exact same impellor." Stock nozzle with the only tunable being maximum 4 degrees up or down wedge. No modification from stock club class propulsion part numbers.

No modifications to the bottom of the boat (i.e. spoons, strake placement, etc.). There will be a jig system at each race that the club class boat will be checked prior to the race and after.

Weight Placement: Each person will be weighed and will have a minimum weight requirement of 360 pounds for both driver and navigator, combined. If under the 360 weight will add lead to offset the weight.

Wings: Not allowed.

Age: Minimum age for driver/navigator is 14 years of age with written consent of BOTH parents.

## Other Parts and Part Numbers (All parts must match):

1 Fuel Vent	357100-1
1 Thru Hull (Bilge)	328-06ABLK
1 Fuel fill	17170564
1 Fuse Panel	BSS5028
1 H2O / Fuel Separator	033320-10
1 Steering Wheel	ULTCORSE
1 U Flex Steering Kit	UFRT-18
1 Throttle Cable 9'	MCO-09
1 Throttle Connection Ki	CA27024-P
1 Bilge Pump 1100gph	Rule #27
4 Bilge Hose per Foot	
1 Battery Box	9096-5
1 20' Merc Wiring harness	XCB-812441A20
1 Engine	XCB-12530283
1 E-Plug (timing cover)	XCB-12596851
1 E-Plug (BOLT)	XCB-1155711
1 Balance Washer	XCB-12594364
1 Low Mount Starter	XCB-18-5913
1 H2O Pump	XCB-43106

1 PTO Adapter 7/16 UNF	XCB-500-2040
1 Flex Plate (168 tooth)	XCB-600-5062
1 H2O Pump Hose	XCB-897181
1 Balance Bolt	XCB-9440024
1 Alternator Bracket Kit	XCB-ALTMOUNT
1 Club Class (Legend Pump)	XCB-J120-AT-A
1 Bell Housing	XCB-K262HCA
1 Drive Shaft and Cone Kit	XCB-K700282A
1 Alternator	XCB-KM190206
1 Mercury Mixer	XCB-KM2034A
1 Kodiak 4" Exhaust Manifold Kit	XCB-KM3502A
1 Lower Pulley	XCB-KM7742
1 Upper Pulley	XCB-KM7743
2 Engine Mounts	DF-210
1 2" Fuel Hose per foot	
3 Cole Hersey Switches	
2 Switch Safety Covers	
1 Start Button	
8 3/8 x 2 #2 Battery Cable Ends	
16 #2 Battery Cable per foot	
1 Oil filter	
1 Intake Manifold and bolts and gasket	
1 Air Cleaner Assembly	
1 PCV Valve	FV184
1 PCV Elbow	47032
2 Fan Belts	AC Delco 15430
8 Spark Plugs	TR55GP
10 3/8" Fuel Hose per foot	
4 4" hose clamps	
4 3" hose clamps	
2 2" hose clamps	
1 Manifold Gasket Kit	
1 Volt Meter	3391
1 3-3/8 Tach Meter	3391
1 H2O Temp Gauge	3337
1 Oil Press Gauge	3327
1 Edelbrock Cart	
3 Switches	
1 24C Battery	
1 Dipstick	
1 Oil Filter Adapt	