



## **2010 NORTHWEST REGION SCCA**

### **BABY GRAND MANUFACTURING INC RULES**

#### **SECTION 1. DEFINITION OF TERMS**

- 1.1** The term "BABY GRAND" (and design) is a registered trademark/service mark of BABY GRAND MANUFACTURING, INC. Registration #75-184191.
- 1.2** The Address Of The Manufacturer Is:  
BABY GRAND MANUFACTURING, INC. P.O. BOX 649 MARSHFIELD, MO 65706  
PHONE (417)859-6685 FAX (417)468-4959

#### **SECTION 2. CHASSIS**

- 2.1 Chassis requirements:** All cars in GT-B must be a complete car manufactured by BABY GRAND MFG. With the original serial number intact. The serial number panel is located on the main frame rail below the door bars. If this plate has been tampered with or altered, the car will be considered a non-numbered car until owner receives reinstatement from baby grand mfg. Inc.

Modifications to the main frame, roll cage, pickup points or shock mounts will not be permitted unless an authorized letter has been issued for upgrades from the manufacturer.

A damaged chassis may be repaired, but must be inspected by tech inspector before competing. If the chassis is damaged beyond repair a bare chassis replacement must be purchased from baby grand mfg. And the original serial number plate must be surrendered before a new number is issued.

- 2.2 Original Parts:** All BABY GRANDS must use the manufacturer's chassis; body or replacement panels, a Yamaha FJ1200 OR XJR1200 engine that complies with rules in section 4, and any other factory required components covered in these rules.
- 2.3 Car Weight:** The minimum weight of the car, with driver, equipment and fuel shall not be less than 1575 lbs. At post race tech inspections.
- 2.4 The Addition Of Weights:** refer to GCR 9.3.8

- 2.5 Bumpers:** Front and rear bumpers are required on the car any time the car is completing. The front and rear bumpers must remain stock thickness and shape. Changes may be made to front bumper for towing purposes.

### **SECTION 3. BODY**

- 3.1 Body Panels:** Only fiberglass bodies and replacement panels manufactured by baby grand manufacturing are permitted. No modifications to body shape are allowed. A roof hatch may be installed over the driver's seat. The hatch must be hinged on the end towards the front of the car. A latch must be installed to hold the lid in the closed position any time the car is being operated. The latch must be operational from inside or outside of the car. Maximum opening can not exceed 24" x 24".
- 3.2 The Fiberglass Body:** refer to GCR
- 3.3 Windshield:** A Lexan window is required in the front of the car, with a minimum thickness of 1/4", with tabs and straps as required by GT specs GCR.
- 3.4 Aerodynamic Devices:** Additional air dams, spoilers or other aerodynamic devices are not permitted. External hood scoops or louvers are not permitted. An adjustable flat trim strip may be added to the bottom of the front air dam. This trim strip must be mounted around bottom perimeter of air dam with screws no more than 6" apart. Only the baby grand rear spoiler may be used. No spacers or devices are allowed that change the factory angle. Spoiler may be shaved but not made larger.
- 3.5 Air Intake:** additional air intake openings may be made in front air dam. These openings may be on either side of factory screen intake. New openings can not be more than 5" tall and not more than 6" wide. These openings must have screens attached to the backside. Similar to the factory air intake. Air can be directed to any part of the car except carburetors.
- 3.6 Ducting:** Ducting or other devices may be added to cool driver. Air intake receptacles are allowed in the port windows or the vent post area. All ducting tubes or receptacles must be mounted flush with the body.
- 3.7 Identification And Marking:** Refer to GCR.
- 3.8 Taillights:** A minimum of two taillights at the rear of body located in the original taillight location or a minimum of two bulbs in a single unit mounted to the rear of the body above the bumper below the spoiler.

### **SECTION 4. ENGINE**

- 4.1 Engine:** The only approved engine used in Baby Grand Stockcars is the Yamaha FJ1200 OR XJR1200. There are a few changes allowed to a stock engine which will make maintenance easier and provide longevity to your engine. No changes are allowed except for the following:
- A. External oil coolers
  - B. Remote oil filters
  - C. Change carburetor jetting
  - D. Aftermarket clutch or pressure plates may be used

- E. Additional air ducting or fans for engine
- F. Cylinders may be bored .020" over standard
- G. Cam chain tensioner-plastic replaced with metal

**4.2 Engine:** after an engine is bored to .020". The next rebuild will require resleeving the engine. Yamaha pistons and rings, with no modifications, are mandatory for all applications. Only Yamaha stock rods with no modifications may be used. Aftermarket rod bolts may be used. The cold cranking compression cannot exceed 180 P.S.I. the compression ratio may not exceed 10:1. Changing crank stroke is not allowed. Cylinders can be decked. Absolutely no lightening of crankshaft is allowed. Damaged journals may be repaired and reground, but lightening of crank throws is not allowed.

**4.3 Heads:** no modifications are allowed to the heads except for the following: valve seat grinding; a five angle valve job is allowed. Valve seats and guides may be replaced as needed. No shortening of valve guides are permitted. No cylinder port modifications are allowed including but not limited to, porting and polishing. Combustion chamber may be matched and cc balanced. A relief cut may be added to the combustion chamber, which must not exceed bore size. This will allow for a damaged combustion chamber to be repaired. Stock Yamaha camshafts or steel billett camshafts meeting stock Yamaha specifications may be used. The cams can not be altered from stock

Specifications, including but not limited to, alterations to cam profile lift or duration. Camshaft sprockets may be slotted for degreasing, or aftermarket cam gears may be used. Stock Yamaha valves or stainless steel valves meeting stock specifications are required. Heavier valve springs are allowed. No titanium. Original Yamaha valve spring retainers and clips must be used; no titanium or aluminum is allowed. Valve spring shimming is allowed. Heads may be decked, however compression must not exceed a 10:1 ratio or maximum 180 P.S.I. the head may be drilled for the addition of cam oiling kits.

**4.4 Headers:** Only the stock Baby Grand exhaust headers and collector are allowed, with no modifications. Headers may be wrapped or ceramic coated, the exhaust may exit thru the body or in the right rear wheel well area, in front of and to the inside and/or the outside of the right rear wheel.

**4.5 Carburetors:** Only stock Mikuni carburetors as issued from BABY GRAND MANUFACTURING are allowed. The modifications allowed are; carburetor jetting kits with any size jetting may be used. It is illegal to bore garbs or modify internal bore in any manner. Float bowls may be changed to accept a jet change bowl nut. No ducting or baffling can be installed to improve air intake to carburetors. Air cleaners may be changed to preference.

**4.6 Electronics:** Each car must use the stock Yamaha coils and wires as equipped from the factory. A factory stock Yamaha Igniter or Vance and Hines model #20500 with adjustable rev limiter is allowed. Relocation of igniter is permitted.

- 4.7 **Battery:** The battery must be located outside the driver's compartment. It can be moved from left to right side of car in an area behind shifter lever and in front of rear axle.
- 4.8 **Oil Coolers & Ducting:** The oil coolers and their ducts may be relocated or modified, but must be confined to the engine compartment or tunnel area on right side of car.
- 4.9 **Fuel Cell:** Maximum fuel cell capacity is 5 gallons. Refer to GCR 9 & 9.3.27.4 fuel: refer to GCR 9.3.26

## **SECTION 5. DRIVELINE. SUSPENSION. WHEELS. ETC.**

- 5.1 **Driveshaft:** The Baby Grand must always remain a shaft driven racecar. Steel driveshafts and universals that meet the original manufacturer specs are required. Driveshaft safety hoops must remain in place.
- 5.2 **Rearends:** Only a Winter's Mini-Stock Quick Change rear end can be used. Any ring and pinion ratio may be used. Any spur gear set as listed on the BABY GRAND MFG. parts list may be used. Limited Slips, Detroit Lockers, or aftermarket differentials are prohibited.

All rear components must meet the specifications of the original equipment. Panhard bar, axle bracket, top link, and trailing arms must remain in stock form, in stock location. Panhard bar slider bracket and chassis tube may be converted to a rigid mount. Aluminum tubes may be adjusted to any of the mounting holes provided. Aluminum tubes may be shortened or lengthened to achieve proper set-up.

- 5.3 **Brakes:** The car must have operational brakes on all 4 wheels at all times. Brake lines can not be plugged. Rotors and calipers must remain stock. Rotors can not be drilled. Any type of brake pad may be used. Ducting may be installed to cool brakes.
- 5.4 **Wheels:** Bassett 13" X 7", 4 on 4 ¼" spacing, 3 1/2 backset with ½" spacers allowed, or bassett 13" x 7", 4 on 4 ¼" with 3" backset. No chrome wheels are allowed. Relief valves or bleeder valves are permitted.
- 5.5 **Tires:** Slicks—Goodyear 20 x 6.5 x 13 part #d1740. Rain tire—Goodyear and/or Hoosier.
- 5.6 **Wheelbase & Track:** Wheelbase must be 76" to 76 ½". Both sides of the car must fall within these measurements. Rear track width cannot exceed 46" measuring from center of tread face. Maximum rear track offset must be within ¼" of frame centerline. Front track must be within ¼" of frame centerline. Front track can not exceed 46 ½". Front end measurements are taken at spindle height.
- 5.7 **Shocks & Springs:** Any coil-over shock units are allowed with small body springs. The length of the front and rear springs must be 10". Adjustable shocks are not allowed.

**5.8 Weight Transfer Device:** Devices designed to transfer weight of the car or change handling characteristics while racing are illegal. This includes, but not limited to, electrical, air, mechanical or hydraulic devices other than shock absorbers. The only device allowed in the driver's compartment for handling is the brake bias adjustment. No onboard computers or their wiring harnesses, or record keeping devices are allowed, other than engine data collection.

**5.9 SWAY BARS:** Only Baby Grand sway bar assemblies may be used. Rear stabilizer bars are not allowed.

All cars must meet the safety specifications in the GCR and GTCS for GT category cars.

*The previous rules are not guidelines, but an actual list of allowable modifications. If not specifically stated, any other modifications will not be allowed.*