



## Brushless Mafia Flexi Series

### 3.0 General Car Class Guidelines

Commercial Availability: All products requiring series approval (chassis, motors, bodies) used in the Series must be available from EITHER a Major Wholesaler OR through Manufacturer Direct Sale TO RACEWAYS at the start of the season. No component without WHOLESale availability will be considered for future legality.

### 3.1 Guidelines for All Car Classes

- a. All decisions and rulings of the Tech Director will be final.
- b. Non-metallic Lane Change cards or position markers are to be used to mark a car's position on the track between heats.
- c. Drivers are responsible for keeping their cars legal at all stages of a race. At any point of the race or following the race, cars are subject to tech inspection.
- d. No modifications may be made to any manufactured part except where specified in the individual class specifications.
- e. No Bearings in chassis, oilite, bronze or brass bushings only.
- f. No hollow axles
- g. Cars must use a single guide flag
- h. Weighted guide flags are allowed
- i. The overall rear tire width of the car must not exceed 83mm (3.268")
- j. Chassis width is 83mm (3.268") maximum
- k. Body width is 84mm (3.307") (not including body clips or pins) maximum
- l. Tire width is 20.6mm (0.810") maximum
- m. Track clearance of 0.813mm (0.032") minimum
- n. Reinforcement may be added to the stamped/formed steel chassis in the rear uprights, front tongue, side pans and motor mount support.
- o. Rear bushing holes can be modified to adjust ride height
- p. No grinding on chassis or removal of weight is allowed.
- q. May add lead weight to the top of the chassis to affect handling.
- r. Tape may be added to the top the chassis.
- s. Pin tubes and/or floating pin tubes may be added to the chassis to facilitate body mounting.
- t. For realism sticker front wheel/tires are required. No wing car stamped tires allowed.
- u. For all classes, minimum body thickness: Must be sold as .007".
- v. Body must have windshield and side windows clear where applicable; rear windshields may be painted over where applicable
- w. Body must completely cover chassis when viewed from directly above
- x. Body must be painted a minimum of one (1) opaque color
- y. No body air dams/spoilers/wings may be added to the body
- z. May reinforce the body with tape
- aa. Body must have three (3) numbers a minimum of one-half inch (0.5") tall
- bb. Body may have one (1) sponsor a minimum of one-quarter inch (0.25") tall
- cc. Paint Scheme and/or Sponsor may not be political, obscene, or profane
- dd. For all car classes, it is illegal to cut into the top of the body.

- ee. Only mass-produced steel stamped/blanked, or laser/water jet cut formed steel chassis are legal for use. The chassis must be listed on the officially approved chassis list.
- ff. Racers may tech only one car per car class
- gg. No rear tire changes are permitted during a race unless the tire/wheel is damaged beyond repair
- hh. No motor changes during the race
- ii. **If it is not listed, it is illegal**

### 3.2 Approved Chassis for NASCAR, LMP and GTP:

JK Products:

Aeolos (p/n C43/C26 or C43T/C26T)

Modification for BLDC using KC Racing mount p/n KCR-MUAC or KCR-MSKH

KC Racing:

Voltan (p/n flat track KCR-FC1 or speedway KCR-FC2)

Mid-America:

Gemini (p/n 217N)

Mossetti:

Patriot Revolver (p/n speedway 4001 or flat track 4002)

### 4" NASCAR

#### Minimum weight

78 grams at all stages of the race

#### Motor

DoSlot 1105.4000Kv (9N12P rotor configuration)

KC Racing 1106.4500Kv (9N12P rotor configuration)

Must not have been tampered with in any way.

#### ESC/eCom

DoSlot v2 – White – Double Sided

WestRock

X89

#### Chassis

Must use chassis from approved listing.

May interchange pans and center sections within the same manufacturer.

#### Tires

Maximum tire Diameter is .760".

This is a fixed gear ratio class and not to be played with by tire diameter.

#### Rear Axle

Must use a 3/32" diameter solid steel rear axle.

#### Gears

4000Kv - 64 Pitch - 13T Pinion - 33T Spur

4500Kv - 64 Pitch - 13T Pinion - 37T Spur

Angled pinion and spur gears are allowed



## Brushless Mafia Flexi Series

### Body

Must use one of the following approved series bodies. See approved body list. All bodies must have a minimum of 1/16" front bumper (or splitter where applicable) and 1" of material across the back.

### Interior

Must use an appropriately painted 3D molded plastic interior. No holes or cutouts are allowed in the interior. Chassis or track may not be seen when viewed directly from above.

### Approved 4" NASCAR Body List

JK Products – '71 Mustang  
Mid-America -- Mustang  
Ralph Thorne Racing -- Titan COT

### LMP

#### Minimum weight

75 grams at all stages of the race

#### Motor

DoSlot 1105.4000Kv (9N12P rotor configuration)  
KC Racing 1106.4500Kv (9N12P rotor configuration)  
Must not have been tampered with in any way.

#### ESC/eCom

DoSlot v2 – White – Double Sided  
WestRock  
X89

#### Chassis

Must use chassis from approved listing.  
May interchange pans and center sections within the same manufacturer.

#### Tires

Maximum tire Diameter is .720".  
This is a fixed gear ratio class and not to be adjusted by tire diameter.

#### Rear Axle

Must use a 3/32" diameter solid steel rear axle.

#### Gears

6000Kv - 64 Pitch - 10T Pinion - 33T Spur  
6500Kv - 64 Pitch - 10T Pinion - 36T Spur  
Angled pinion and spur gears are allowed

#### Body

Must use one of the following approved series bodies. See approved body list.  
May not cut into the top surface of body; must maintain some turn-down in front and 1/8" minimum in the rear of the body.

#### Interior

Must use an appropriately painted 3D molded plastic interior in closed cockpit cars  
Must have an appropriately painted 3D driver in open cockpit cars.

### Approved LMP Body List

JK Products – Ascari LMP  
Mid-America – Renault LMP  
Ralph Thorne Racing -- Orca

### GTP

#### Minimum Weight

75 grams at all stages of the race

#### Motor

DoSlot 1105.6000Kv (9N12P rotor configuration)  
KC Racing 1106.6500Kv (9N12P rotor configuration)  
Must not have tampered with in any way.

#### ESC/eCom

DoSlot v2 – White – Double Sided  
WestRock  
X89

#### Chassis

Must use chassis from approved listing.  
May interchange pans and center sections within the same manufacturer.

#### Tires

Maximum tire Diameter is .790"

#### Rear Axle

Must use a 3/32" diameter solid steel rear axle.

#### Gears

64 Pitch – Any Pinion – Any Spur  
Angled pinion and spur gears are allowed

#### Body

Must use one of the following approved series bodies. See approved body list.  
May not cut into the top surface of body; must maintain some turn-down in front and 1/8" minimum in the rear of the body.

#### Interior

A stick-on (decal) driver is all that is required. Any other interior style and material are allowed.

#### Approved GTP Body List

JK Products – Audi RSC  
Mid-America -- Evolution  
Ralph Thorne Racing – Viking