

Tech Inspection Check List by Class

(These are not complete regulations - see the FRC Class Rules for the full regulations)

All Classes (Tools: ruler)

1. All cars must have racing numbers displayed at least on each side.
2. Ballast added to car must be within 2.5" (64mm) and ahead of the rear axle.

Historic Saloon (HS) (Tools: ruler, USD block, screwdriver to check magnet locations)

1. **Body:** Interior must be visible. Maximum body width of 60 mm.
2. **Chassis:** Original but may be modified; standard guide flag and axle positions. No angle-winder chassis or pods.
3. **Interior:** Original, but may be altered to install digital chip and/or to clear motor.
4. **Motor:** Up to 18,000 RPM.
5. **Magnets:** USD rule. Magnets must be ahead of centreline of the distance between guide flag pivot point and rear axle.
6. **Wheels:** Original or must be as close as possible to original diameter (excluding ridge). Wheels or inserts that match or are close to original wheel design are required.

American Pony Car (APC) (Tools: ruler, USD block, screwdriver to check magnet locations)

1. **Body:** Fender mods not allowed. Wheels and tyres must not be visible from above.
2. **Chassis:** Original but may be modified; standard guide flag and axle positions..
3. **Interior:** Original, but may be altered to install digital chip and/or to clear motor.
4. **Motor:** Up to 21,500 RPM.
5. **Magnets:** USD rule. Magnets must be ahead of centreline of the distance between guide flag pivot point and rear axle.
6. **Wheels:** Original or must be either 12mm or 13mm in diameter (excluding the ridge). Wheels or inserts that match or are close to original wheel design are required.
7. **Tyres:** Front tyre minimum diameter: 17mm on wheel. Rear tyre minimum diameter: 19mm on wheel. Rear tyre maximum tread width: 8mm (excluding sidewall).

Vintage Sports '60-'75 (VS6075) (Tools: ruler, USD block, screwdriver to check magnet locations, scale)

1. **Body:** Interior must be visible.
2. **Chassis:** No angle-winder chassis or pods.
3. **Interior:** May be modified to allow fitting of electronic components. Can be substituted by at least a full shelf with driver head, arms, steering-wheel and roll bar/cage. These must be painted to appear like the original. Ultra-light/one-piece plastic interiors are not allowed.
4. **Motor:** GT - 18,000 RPM or lower; Prototype - 22,500 RPM or lower.
5. **Magnets:** USD rule. Magnets must be at least 40mm ahead of rear axle. (Same as front magnet location on Slot.It motor pods.)
6. **Wheels:** Original or must be as close as possible to original diameter (excluding ridge). Wheels or inserts that match or are close to original wheel design are required.
7. **Minimum Weight:** GT - 90gm; Prototype - 77gm.

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Rally Car (RC) (Tools: screwdriver to check magnet locations)

1. **Interior:** If visible must have both driver and navigator figures (heads minimum).
2. **Motor:** 21,500 RPM or lower. "Magnet-effect" motors are not allowed.
3. **Magnets:** No magnets allowed.

Slot.It Challenge (SC) (Tools: screwdriver to check magnet locations)

1. **Chassis:** Standard.
2. **Interior:** Standard.
3. **Motor:** Standard Slot.It orange-endbell 21,500 RPM motor.
4. **Magnets:** One currently-available standard Slot.It "non-race" magnet (the one with the grooves); must be positioned in any of the standard locations on the Slot.It motor pod.
5. **Wheels:** Must be Slot.It.
6. **Tyres:** Must be Slot.It.

Formula 1 (F1) (Tools: ruler, USD block, screwdriver to check magnet locations)

1. **Car Max Width:** 63mm (left tyre edge to right tyre edge).
2. **Motor:** Up to 18,000 RPM.
3. **Magnets:** USD rule. Magnets must be at least 5.5mm ahead of rear axle (rear magnet position of inline Slot.It pod).
4. **Wheels:** Max diameter of 14mm without tyres, excluding centre ridge.
5. **Tyres:** Front: 18mm diameter minimum. Rear: Must be F1 size (18mm diameter minimum and 11mm minimum width).

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Modified Production (MP) (Tools: USD block, screwdriver to check magnet locations)

1. **Motor:** 23,500 RPM or lower. 20,000 RPM or lower if magnets are positioned rearward of the front of rear tyres (see "Magnets" below).
2. **Magnets:** USD rule. If motor is 20,000 RPM or less, magnets may be positioned anywhere. If motor is over 20,000 RPM, magnets must be positioned ahead of the rear tyres when viewed from the bottom or top of the chassis.

Restricted GT (RGT) (Tools: USD block)

1. **Motor:** 23,500 RPM or lower.
2. **Magnets:** USD rule.

Restricted LMP (RLMP) (Tools: USD block)

1. **Motor:** 26,000 RPM or lower.
2. **Magnets:** USD rule.