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EUROPEAN FEDERATION OF RADIO OPERATED MODEL AUTOMOBILES

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BRUSHLESS SPEC. MOTOR REPORT.

In recent weeks, there has been concern raised by ROAR regarding some derivatives of the Trinity D3.5 Spec. Brushless Motors.

As the EFRA Electric Track Section has European Championships with Classes for Brushless 10.5T Spec. Motors, EFRA has purchased through normal retail channels, a 10.5T Spec. derivative of this family of motor for examination.

The motor purchased was :- Part # TEP1080 -- Trinity D3.5 -- 10.5 Turn.

The motor has been stripped and sectioned to gain access to wires.

10.5T Spec. Brushless Motors are required to have :-

- 2 wires of AWG 20. Maximum diameter with lacquer removed is **0.8209 mm.** (with tolerance).
- 2 wires of AWG 22. Maximum diameter with lacquer removed is 0.649 mm. (with tolerance)

When examined, the following was found :-

1. The larger wires (with lacquer removed) measured -- **0.834 mm.** diameter.
The smaller wires (with lacquer removed) measured -- 0.630 mm. diameter.

The motor examined does not conform to EFRA rules, as two of the wires are above the maximum diameter allowed.

2. The motor End-Bell/Plate does not have the name of the manufacturer or a 'logo' that can be distinguished.

Paul Worsley. (On behalf of EFRA Electric Track Chairmen)