Formula SAE Technical Bulletin:

Adding & Mounting Your Car's RFID Tag

What's Changing

- FSAE Timing & Scoring uses passive RFID tags to all cars competing in US competitions

- Any tags used from previous FSAE competitions in the USA will work and should be used again. If you do not have a tag from a past year you may ask for one at Registration.

- Tags will be functionally-checked and linked to your car number at Brake Check

- Equipment at short events will automatically read your tag to identify your car number. Endurance will still use the timing transponder.

- We're doing this to help reduce errors in the timing process and allow for further automation of short events

Passive RFID Tag Info

Omni-ID® Exo 800

Physical Specifications

Encasement	ABS Rigid Plastic
Size (mm)	110 x 25 x 12.85
Size (in)	4.33 x 0.98 x 0.51
Weight (g)	26.0

25.0   97.5   ⌀4.9

4.0   12.85

110.0
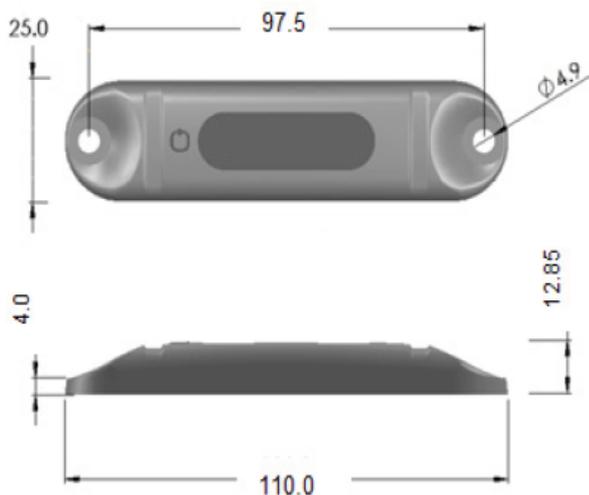
Dimensions stated in mm

[Download datasheet](#)

This passive RFID tag:

- Has no battery; never needs charging

- Will be used this year at all dynamic short events & endurance

- Does NOT replace (or interfere with) your MYLAPS transponder

- Should be used year-after-year for all future US competitions

- Might be used during the stages of Tech and other events in the future

Mounting Location

Mount to a vertical frame member on the DRIVER's LEFT SIDE of the vehicle

Facing Outward 45° from Forward

RFID Tag Location (Vertical ±30°)

305-915mm (12-36in)
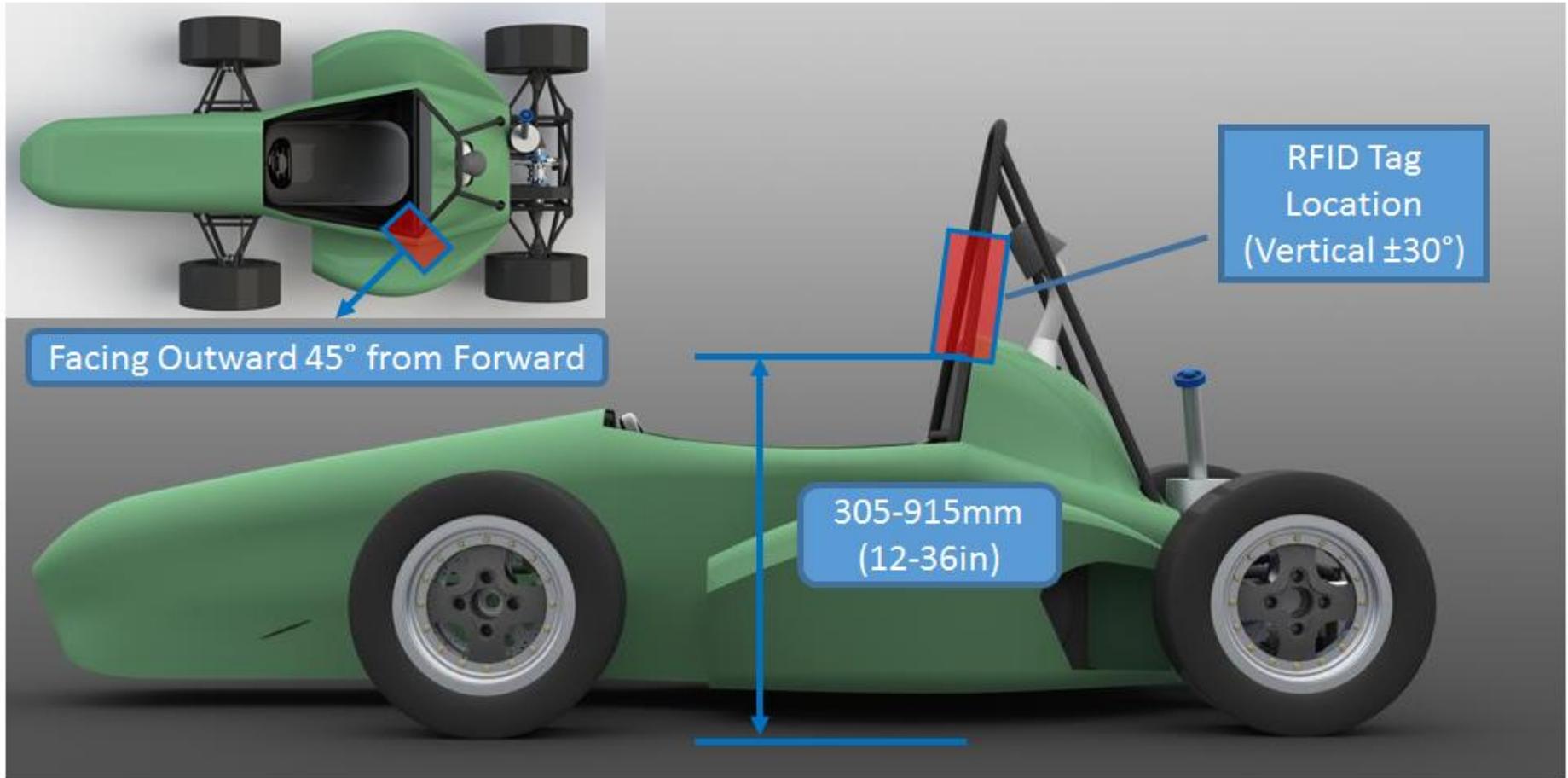
NOTE: Distance from front of vehicle does NOT affect lap timing

Notes & Details

- Must be mounted on the driver's left side of the vehicle

- Must be mounted at a height between 305mm and 915mm (12"-36") above the ground

- Must be mounted "vertically" (+/-30°)
- Must face "outward" 45° (+/-30°) from the front/back centerline of the car
  (Photo shows tag mounted at 90° as instructed in 2016)

- Must not be covered by conductive (metallic, composite) material

- If mounting to a frame tube is undesirable, can be mounted to any material (metallic, plastic, composite) on the car in the vicinity described

- Mount using sound engineering practices
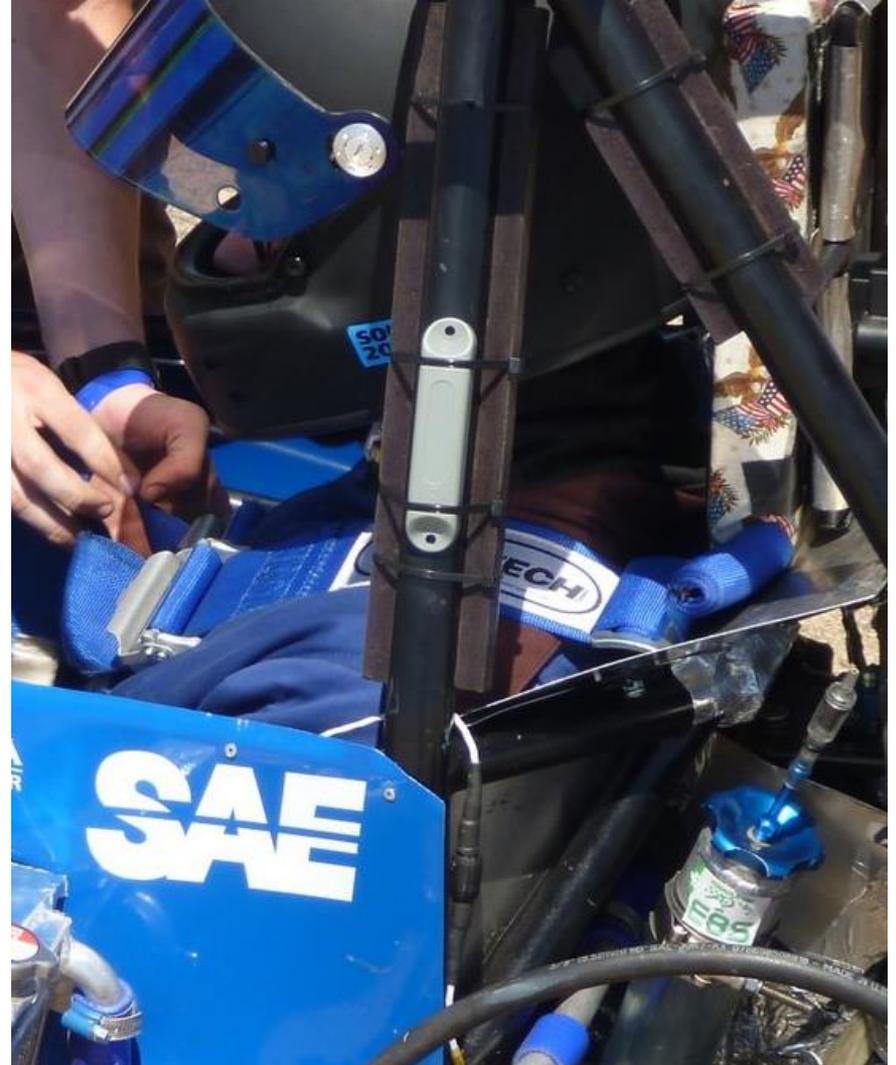
Summary

- **If you have an RFID tag from a previous US competition, use it. If not, pick up your RFID tag at Registration**

- **Mount it to your car as described in this bulletin before entering Mechanical Tech**

- **Leave it on your car until after Endurance**

- **Keep it and use it again next year**

- **You still need a MYLAPS transponder for Endurance**

- Questions? feedback@fsaeonline.com