

Design & Development for Golf Cart ORVM



The Client & Industry

The client is American golfcart manufacturer.

The Product

Develop an aesthetically styled enclosure matching their Golf Cart Body Styling, accommodate and enable the movement of the rear-view mirror assembly.

Input

- Aesthetic & Branding requirement
- Product Characteristics (Material, IP rating, Ports details, Mounting Options, Enclosure Type etc.)
- Testing Related Specification for ORVM
- Homologation, Regulatory and Company Standards
- Vehicle Level CAD model with ORVM mounting Position

Deliverables

- 3D CAD models
- BOM list and approx. BOM cost
- 2D manufacturable drawings

Solutions & Approach

- Developed A-Class surfaces of the mirror to meet the requirements as per customer aligned with main cart styling
- 3D models has been generated for the same A-Class surfaces
- Selected the Fold-in/Fold-out , Interface preferences, Fasteners, as per requirements
- Selection of mirror based on H-point, Q-point and analyzing the vision region
- Developed and tested the prototype as per standard DVP & SAE requirements
- Plastic Enclosure Outer Shell detailed engineering and DFM