Driveshaft Housing
Caleb A. Sylvester, Christopher J. Connell
Material: 6061 Aluminum
Primary dimensions in millimeters, secondary dimensions in inches.
NOTE the fits between this housing and other components.

FIT - This drive shaft housing fits into the large hole in the end of the tail piece. Both the ODs of this piece - the main length of the housing (19.65mm) and the lip of the housing (3.18mm) - need to maintain an INTERFERENCE FIT tolerance with the inside of the hole in the tail. The fit between this housing and the tail piece MUST BE WATER-TIGHT. See table for a better idea of placement.

NOTE - The bearings that stabilize the driveshaft are mounted in the ends of the driveshaft housing. The specific bearing is a McMaster-Carr product:
McMaster-Carr.com
Catalog page 1010, Miniature Precision Stainless Steel Ball Bearing - ABEC-3
Part Number 57155K36 0.25" OD, 0.375" ID, 0.025" width.

FIT - The bearings will be mounted in the ends of the housing, so the (nominal) 9.52 mm ID at each end of the housing should maintain a LIGHT PRESS FIT with the ID of the bearings in order for the bearings to remain in place during the vehicle's operation. See driveshaft_assembly_24deg for more detail on placement and fit.