KIS4 Cruiser

BUILDERS MANUAL

S/N 4052

FUSELAGE

SECTION 3

DOOR LATCH ASSEMBLY

The 4 place door latch , while very similar to the two place latch incorporates changes to improve reliability and rigidity. The primary difference between the two latch configurations is that rigid tubes replace the cable and spring system from the 2 place. This results in a much more rigid system when the door is latched, and a direct indication is provided to assure that the latching has taken place.

A section of aluminum rectangular tube is supplied for fabrication of this handle. The pivot points for the push tubes are in line with the basic pivoting axis, at roughly 1 and 1/4 inch each side of the pivot (The one inch offset shown in previous drawings is rather minimal and a 1 1/4 inch offset will provide more travel and more reliable overlap in the latch) . Drill and countersink one face on each side of that center pivot for a #10 flat head, and drill and tap the other face for a #10 X 32 UNF thread.

The operating "rods" are made from 3/8 OD aluminum tube with approx. .040 thk wall. The handle ends of the tubes are drilled through with a clearance dia (about .190 .) hole, and a minor amount of bending will be required for satisfactory operation of the latch.

The latching ends of the tube should be tapped for a 5/16 UNF thread, and the two latching "bolts", may indeed be bolts with a 5/16 UNF thread. Cut off the tops of these bolts and round the ends to a bullet like rounded point.