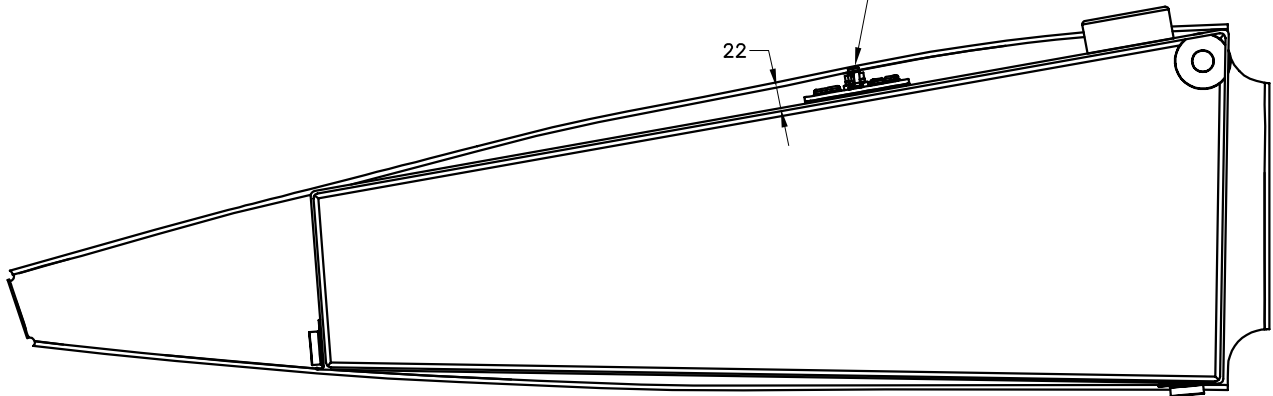


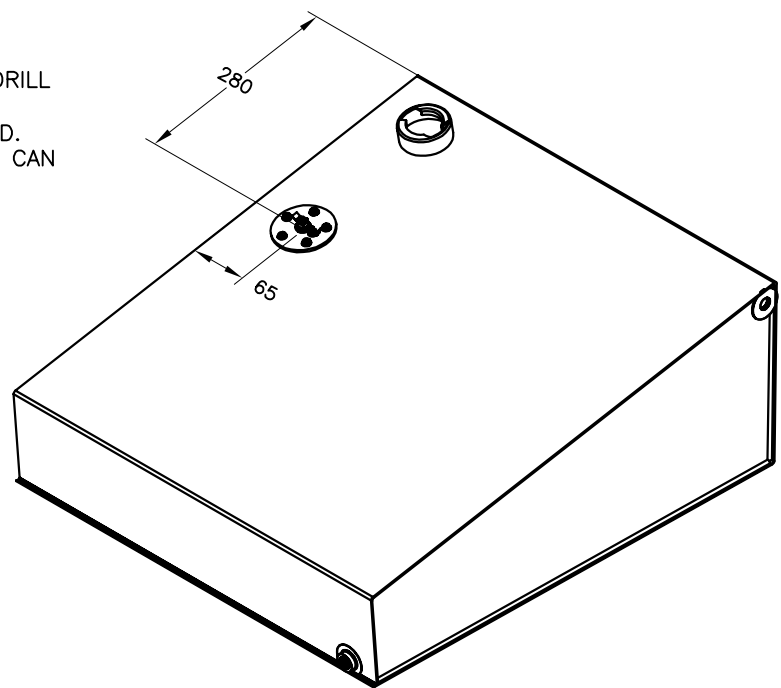
WITH THE TANK POSITION IN THE WING THERE IS APPROXIMATELY 22mm BETWEEN THE TOP OF THE TANK AND THE TOP OF THE RIB FLANGE.

TRIM THE SCREW LEVEL WITH THE TOP OF THE NUT FOR BETTER CLEANSE.



FOLLOW THE INSTALLATION INSTRUCTION INCLUDED WITH THE VDO FUEL LEVEL SENDER.

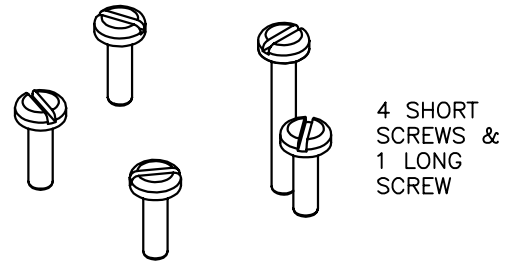
SUGGESTION: USE FLY CUTTER TO CUT THE 59mm HOLE IN THE TOP OF THE TANK. DRILL THE PILOT 1/4" PILOT HOLE WITH A DRILL, THEN TURN THE FLY CUTTER TOOL BY HAND. TURNING THE TOOL WITH AN ELECTIC DRILL CAN YEILD DISAPPOINTING RESULTS!



CHECK: 280mm MEASURE FROM THE FRONT OF THE TANK WILL ALLOW FOR THE MAXIMUM DISTANCE BETWEEN THE TANK AND THE TOP OF THE WING.

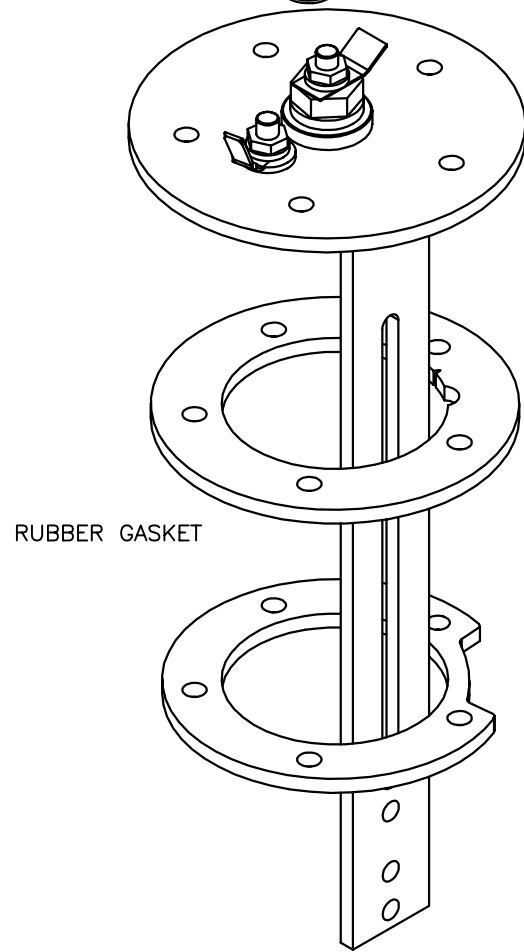
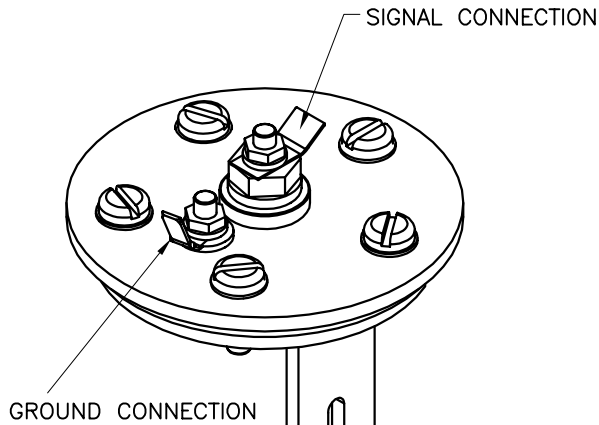
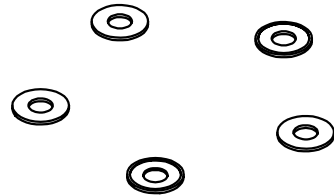
POSITION OF THE FUEL LEVEL SENDER ON THE TOP OF THE TANK

THE RUBBER GASKET FITS ON THE OUTSIDE OF THE TANK WITH THE THREADED STEEL PLATE MOUNTED INSIDE THE TANK, USE THE LONG SCREW TO HOLD IT IN PLACE



4 SHORT SCREWS & 1 LONG SCREW

PAPER WASHERS



SCREW THE PLASTIC HOUSING TO THE BRACKET.

VDO 226-002 ELECTRIC FUEL TANK SENDER

WELDED ALUMINUM FUEL TANK 6061-T6
 CAPACITY: 14.5 US GALLONS
 UNUSABLE: APPROXIMATELY 0.8 GALLON
 PART NUMBER: 8V11-1
 QUANTITY: 1 LEFT + 1 RIGHT
 TANKS ARE MIRROR
 IMAGE OF EACH OTHER.

NOTE: ALLOW FOR A
 1/8" CLEARANCE
 BETWEEN THE TANK AND
 THE RIB TO GLUE STRIPS
 OF CORK.

WELDED TAB
 FOR
 GROUNDING
 CONNECTION
 30X20
 t=.063"

5/16" BEAD ROLL
 APP. 20mm FROM
 EACH WELDED EDGE.

FILLER NECK
 USE WITH
 VENTED CAP

3/8"NPT OUTLET
 FLANGE WELDED
 FLUSH WITH THE SIDE
 OF THE TANK.
 CENTERED AT 15mm
 FROM THE TOP AND
 FRONT SIDE.
 (RETURN LINE AS
 REQUIRED ON SOME
 AUTO CONVERSIONS)

1/8" NPT
 OUTLET FLANGE
 (FOR DRAIN)
 WELDED FLUSH
 TO THE
 UNDERSIDE OF
 THE SKIN.

3/8"NPT OUTLET FLANGE
 WELDED TO THE SKIN.

THE FRONT OF
 THE TANK IS
 POSITIONED
 BEHIND THE MAIN
 SPAR EXTRUSIONS.

TANK ENDS
 1L+1R REQ'D
 6061-T6 t=.025"

REAR RIB
 8V1-2

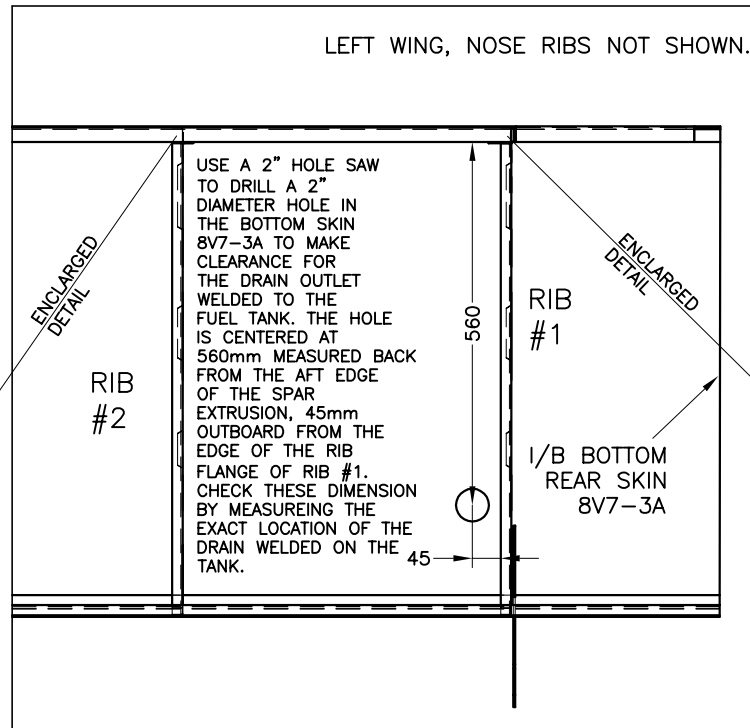
NOTE: THE HEIGHT OF THE TANK IS
 LESS THAN THE RIB TO ALLOW
 FOR A 1/8" SHEET OF CORK TO
 FIT BETWEEN THE TANK AND THE
 WING TOP AND BOTTOM SKIN.

801 WING TANK (DRAWING OF LEFT TANK)

RIVET A LENGTH OF (L) ANGLES ON THE INBOARD SIDE OF RIB #2 TO HOLD THE TANK IN PLACE.
 l=225mm
 THE FLANGE POINTS FORWARD.

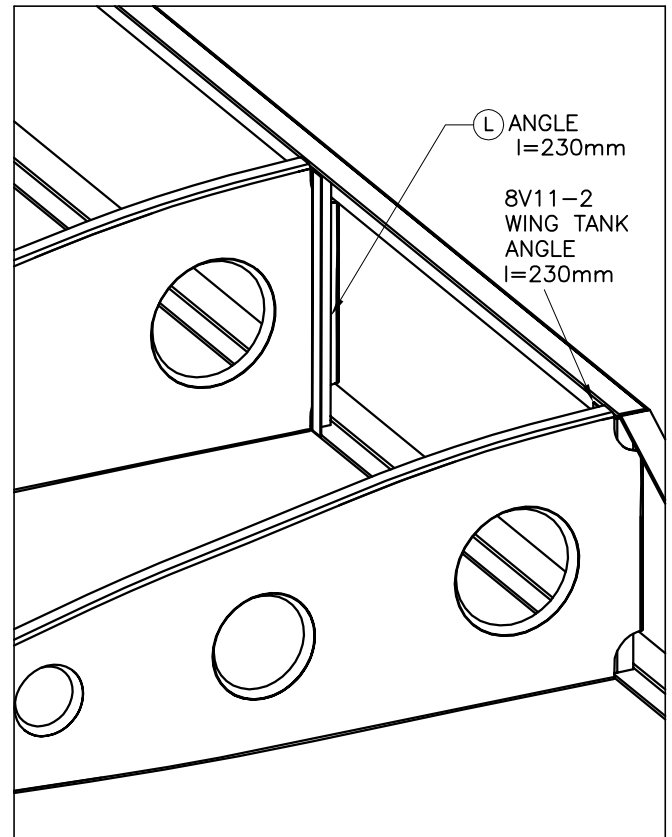
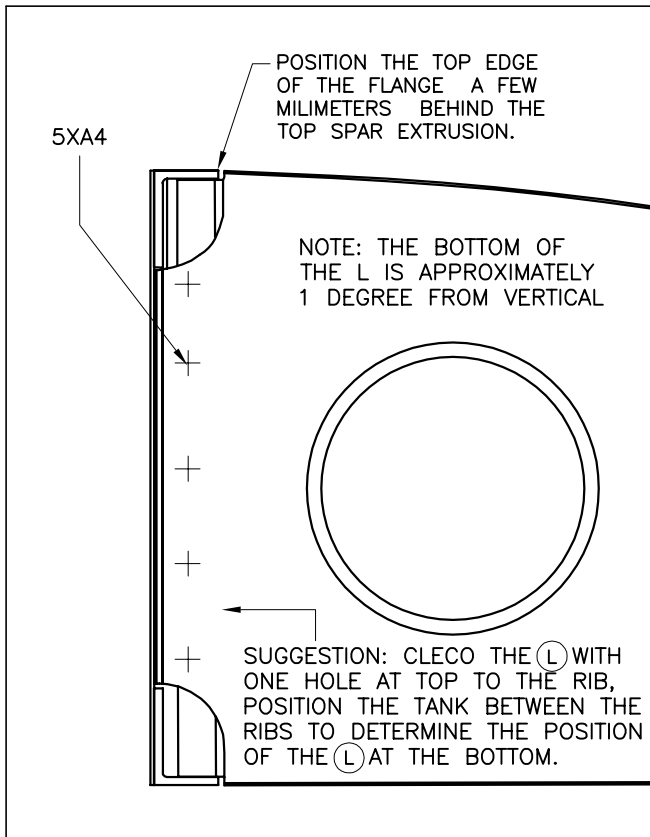
THE TANK FITS BEHIND THE MAIN SPAR EXTRUSIONS.

LEFT WING, NOSE RIBS NOT SHOWN.

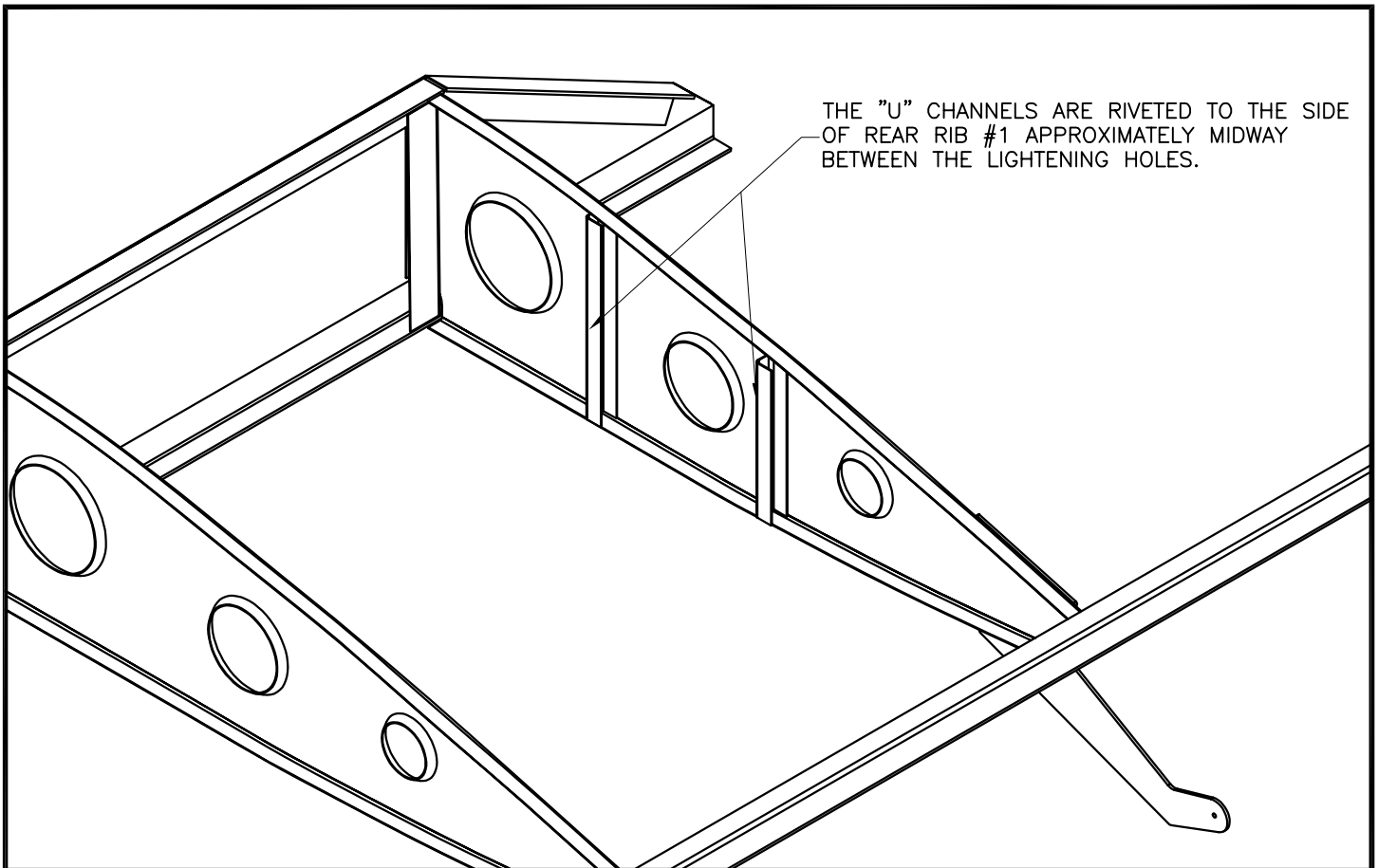


CUT THE WING TANK ANGLE 8V11-2 THE DEPTH OF THE TANK. RIVET THE SHORT FLANGE INSIDE THE RIB. THE SHORT FLANGE POINT FORWARD.
 l=225mm

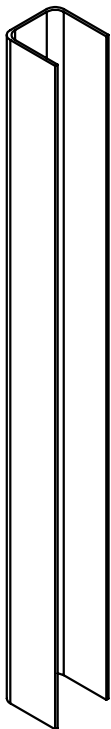
NOTE: THE RIB FLANGE FOR BOTH RIB #1 AND RIB #2 FACE OUTBOARD



DRILL A 2" HOLE IN THE BOTTOM SKIN FOR THE TANK DRAIN. RIVET THE WING TANK SUPPORT ANGLE 8V11-2 TO RIB #1 AND A LENGTH OF L ANGLE ON RIB #2.



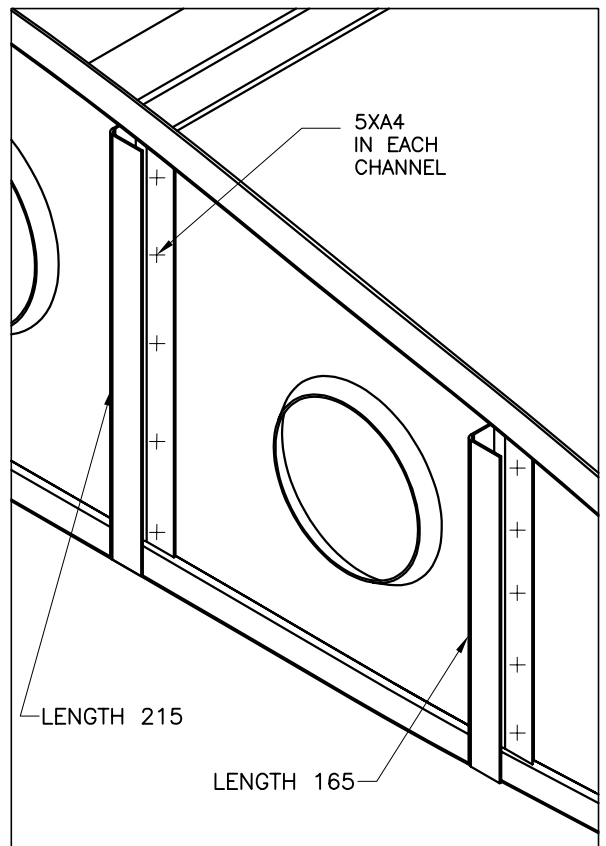
THE "U" CHANNELS ARE RIVETED TO THE SIDE OF REAR RIB #1 APPROXIMATELY MIDWAY BETWEEN THE LIGHTENING HOLES.



8V11-3
WING TANK "U" CHANNEL.

2 LENGTH OF 300mm ARE SUPPLIED, ONE FOR EACH WING TO KEEP THE TANK OUTSIDE OF RIB #1 (THE RIB FLANGE FACES OUTBOARD).

NOTE: AT RIB #2 THE TANK IS AGAINST THE SIDE (WEB) OF THE RIB.

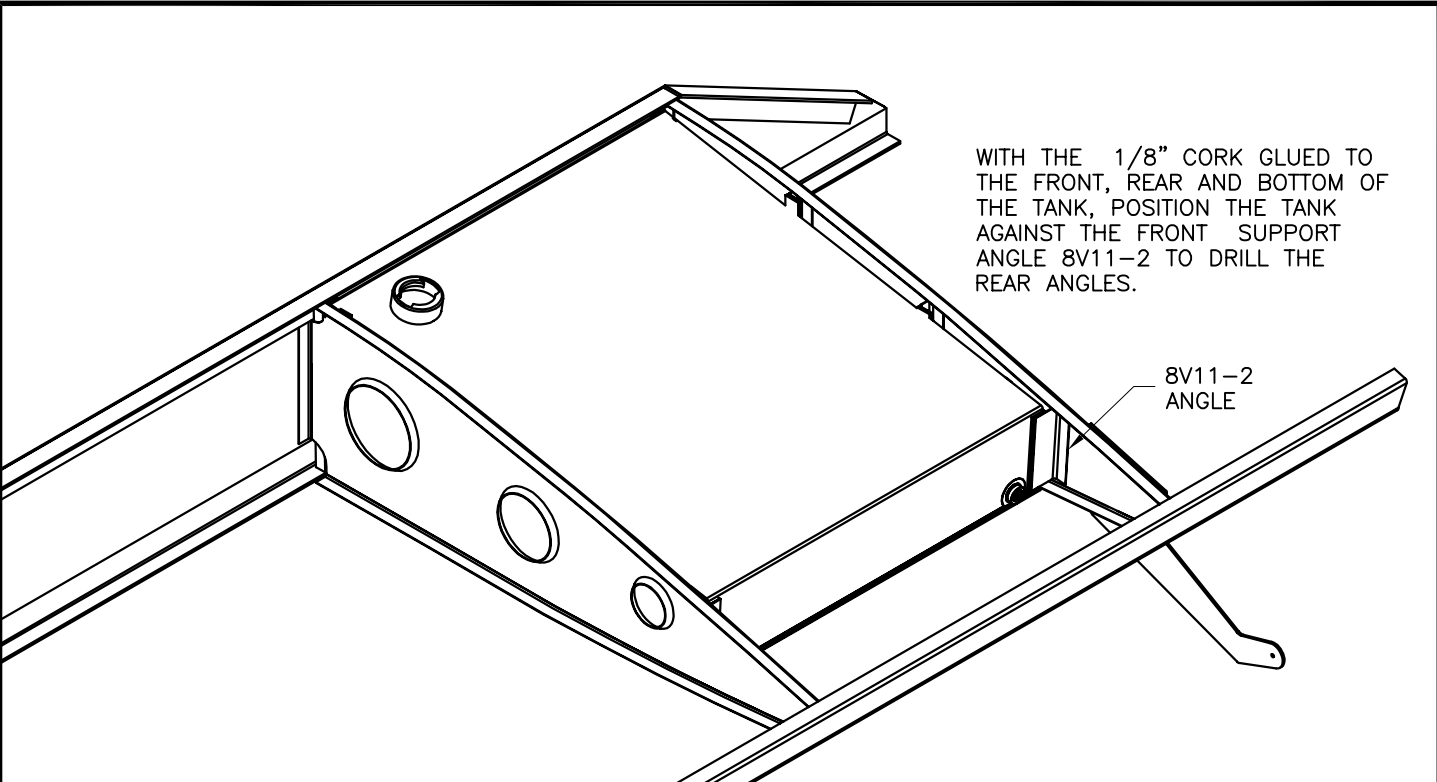


5XA4
IN EACH
CHANNEL

LENGTH 215

LENGTH 165

RIVET THE "U" CHANNEL 8V11-3 INSIDE REAR RIB #1



WITH THE 1/8" CORK GLUED TO THE FRONT, REAR AND BOTTOM OF THE TANK, POSITION THE TANK AGAINST THE FRONT SUPPORT ANGLE 8V11-2 TO DRILL THE REAR ANGLES.

8V11-2 ANGLE



USE THE CUT-OFF FROM 8V11-2 FOR THE FRONT TANK SUPPORT

3X#30 HOLES IN SHORT FLANGE

1/8" CORK SHEET

WAIT TO RIVET THE REAR TANK SUPPORT ANGLE UNTIL AFTER THE FUEL FITTINGS ARE SCREWED TO THE WELDED OUTLET ON THE TANK.

CLECO THE REAR TANK SUPPORT ANGLE 8V11-2 TO RIB #1

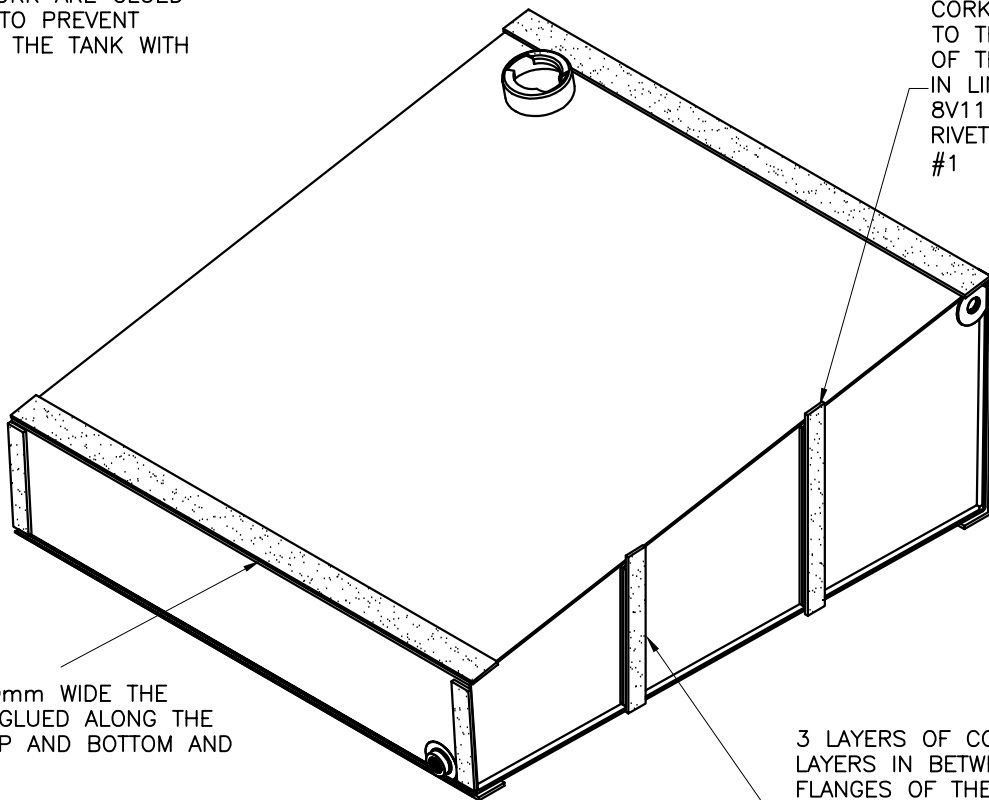
NOTE: STRIPS OF CORK ARE GLUED AROUND THE TANK TO PREVENT DIRECT CONTACT OF THE TANK WITH THE AIRFRAME.

CORK: 1/8" FLAT SHEET CUT IN STRIPS 30mm WIDE

PREPARATION: ROUGH UP THE SURFACE WITH 80 GRIT EMERY CLOTH BEFORE APPLYING THE ADHESIVE.

ADHESIVE: USE GASKET ADHESIVE TO GLUE THE CORK TO THE TANK (FUEL RESISTANT ADHESIVE).

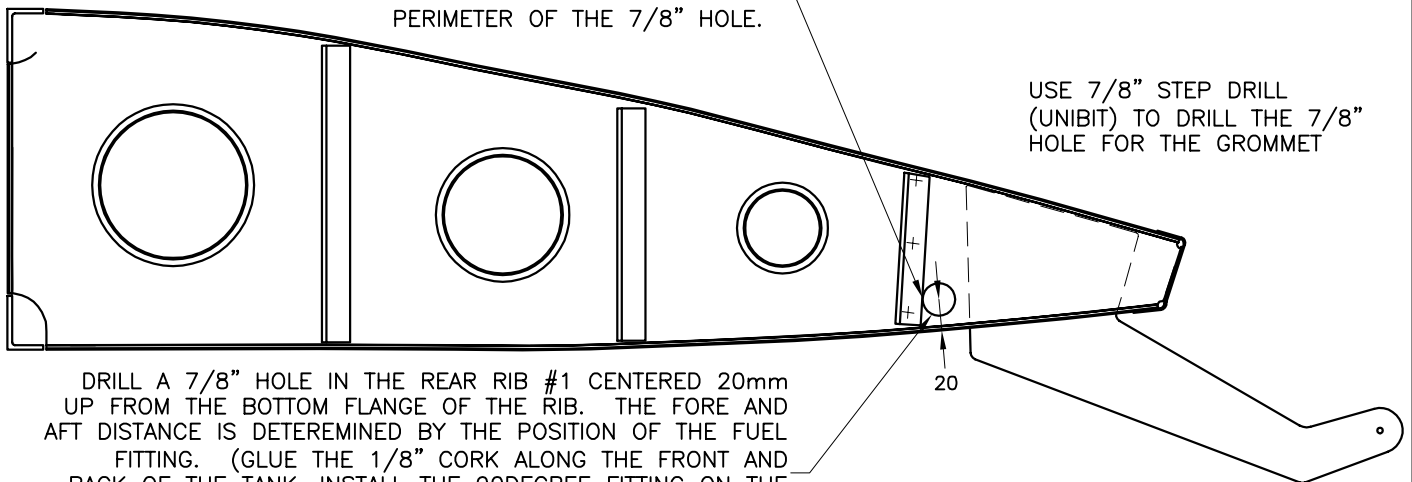
STRIPS OF CORK 30mm WIDE THE WIDTH OF THE TANK GLUED ALONG THE FRONT AND REAR; TOP AND BOTTOM AND ON THE TANK ENDS.



CORK GLUED TO THE SIDE OF THE TANK IN LINE WITH 8V11-3 RIVETED TO RIB #1

3 LAYERS OF CORK: 2 LAYERS IN BETWEEN THE FLANGES OF THE TANK ENDS, THE THIRD LAYER TO COVERS THE TOP AND BOTTOM WELD. (LEFT AND RIGHT SIDE).

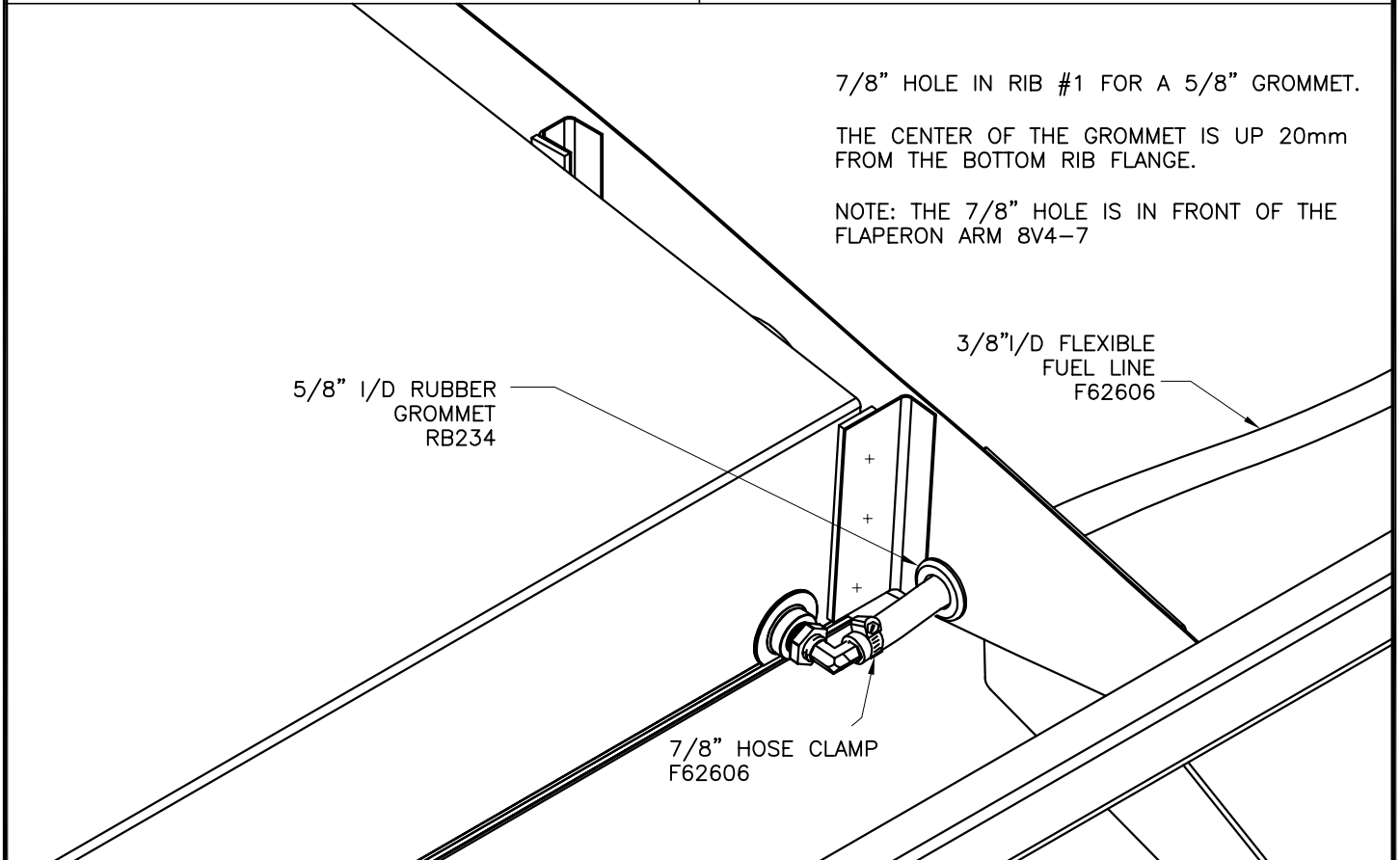
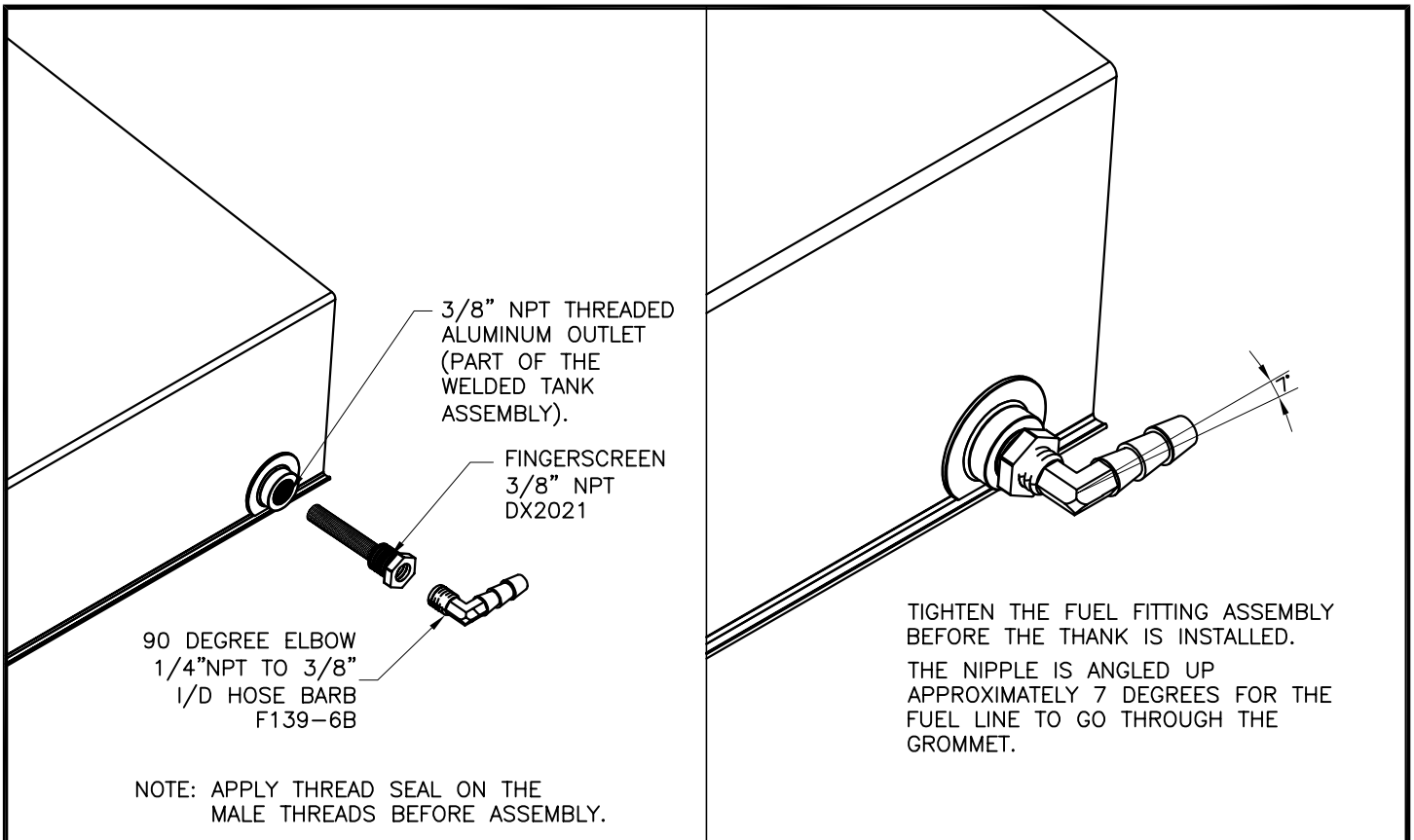
IF WHEN CLOCOED OT THE RIB THE ANGLE 8V11-2 COVERS THE EDGE OF THE HOLE, REMOVE THE ANGLE AND FILE A NOTCH IN THE FLANGE TO CLEAR THE PERIMETER OF THE 7/8" HOLE.



USE 7/8" STEP DRILL (UNIBIT) TO DRILL THE 7/8" HOLE FOR THE GROMMET

DRILL A 7/8" HOLE IN THE REAR RIB #1 CENTERED 20mm UP FROM THE BOTTOM FLANGE OF THE RIB. THE FORE AND AFT DISTANCE IS DETERMINED BY THE POSITION OF THE FUEL FITTING. (GLUE THE 1/8" CORK ALONG THE FRONT AND BACK OF THE TANK, INSTALL THE 90DEGREE FITTING ON THE FUEL TANK OUTLET WITH THE FINGERSCREEN, POSITION THE TANK AGAINST THE FRONT AND CLECO THE REAR ANGLE 8V11-2 TO THE RIB)

7/8" HOLE IN THE REAR RIB #1 FOR THE FUEL LINE GROMMET



FUEL OUTLET WITH A 90 DEGREE ELBOW FITTING

