

RUDDER - FIN - ELEVATOR - TAILPLANE

The tailplane components are constructed from either alloy or wooden ribs and gussets, bonded and/or rivetted onto leading and trailing edges.

Alloy components are pre-formed, the wooden gussets and ribs are to be formed from supplied and pre-marked plywood sheets and wood.

Take care and ensure symmetry of the control surfaces when bonding and rivetting.

After inspection the control surfaces are covered with polyester fabric, suitably doped.

FIGURE 27

BOOM FITTINGS - TAILPLANE COMPONENTS

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
F197	1	Teleflex Bracket		
F218	2	Backing Plate		
F219	2	Backing Plate		
F179	1	Teleflex Bracket		
F315	2	Bracket - Wire		
T104	2	Control Stop Rudder		
T107	2	Support Rudder Stop		
T108	3	Tail Pins	*	
T109	2	Pad Elevator Stop	*	

\* Fit and drill where necessary at tail assembly.

FIGURE 27

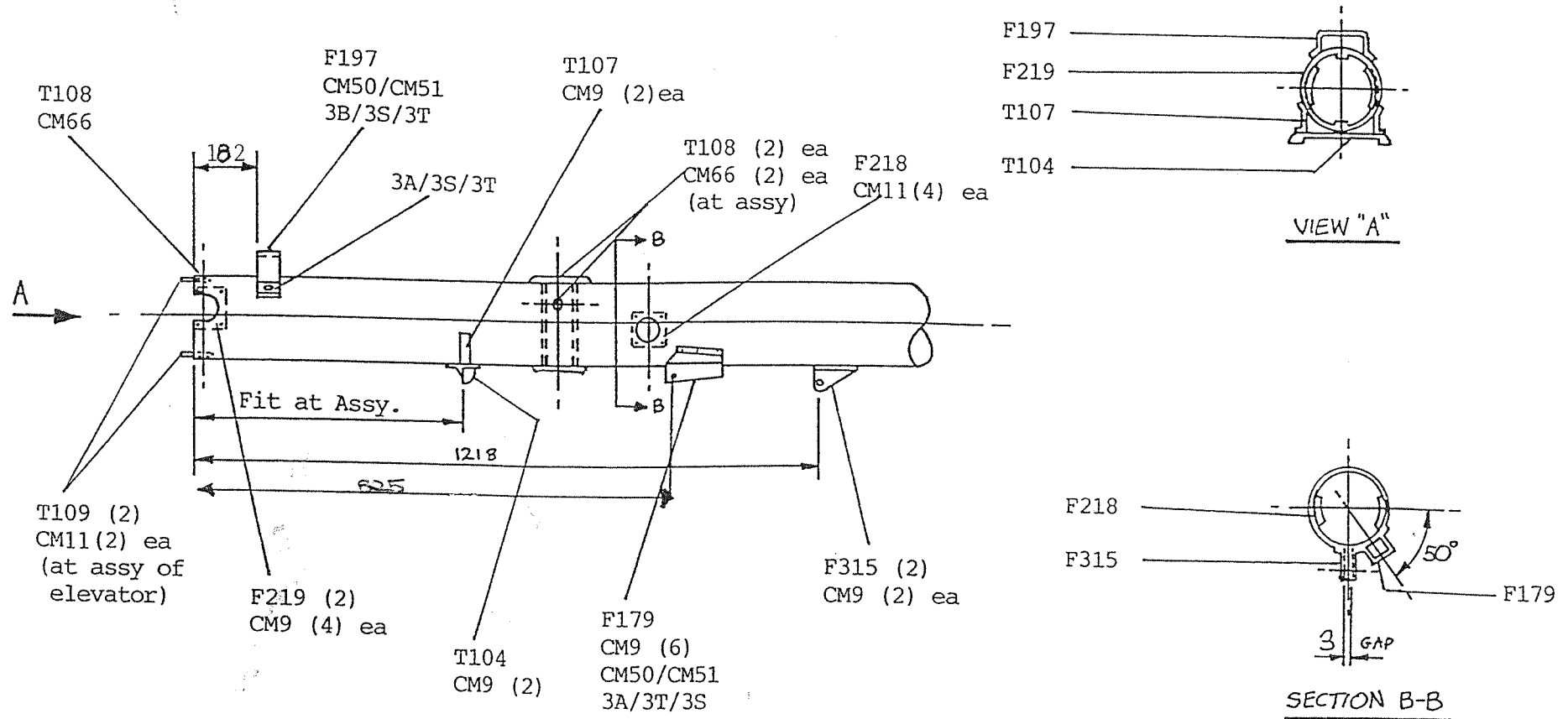


FIGURE 28

RUDDER AND FIN

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
T147	1	T.E. Tube - Fin	BOND	1.2
T151	1	Tailskid Insert		
T152	1	Tailskid		
T153	1	Tailskid		
T146	1	L.E. Fin	BOND	1.2
T148	4	Rib - Fin	BOND	1.8
T149	4	Gusset - Fin	BOND	1.8
T150	4	Gusset - Fin	BOND	1.8
T168	1	Bracket Fin Support		
T105	2	Hinge Rudder	*	
T154	1	L.E. Rudder	BOND	1.2
T155	1	T.E. Rudder	BOND	1.2
T156	1	Channel Rudder	BOND	1.2
T157	1	Rib - Rudder	BOND	1.8

NOTE \* - fit after INSPECTION and COVERING.

FIGURE 28

RUDDER AND FIN

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
T158	1	Rib Rudder	BOND	1.8
T159	1	Rib Rudder	BOND	1.8
T160	1	Rib Rudder	BOND	1.8
T161	2	Gusset Rudder	BOND	1.8
T162	2	Gusset Rudder	BOND	1.8
T163	2	Gusset Rudder	BOND	1.8
T164	2	Gusset Rudder	BOND	1.8
T165	2	Gusset Rudder	BOND	1.8
T103	2	Gusset Rudder Horn		

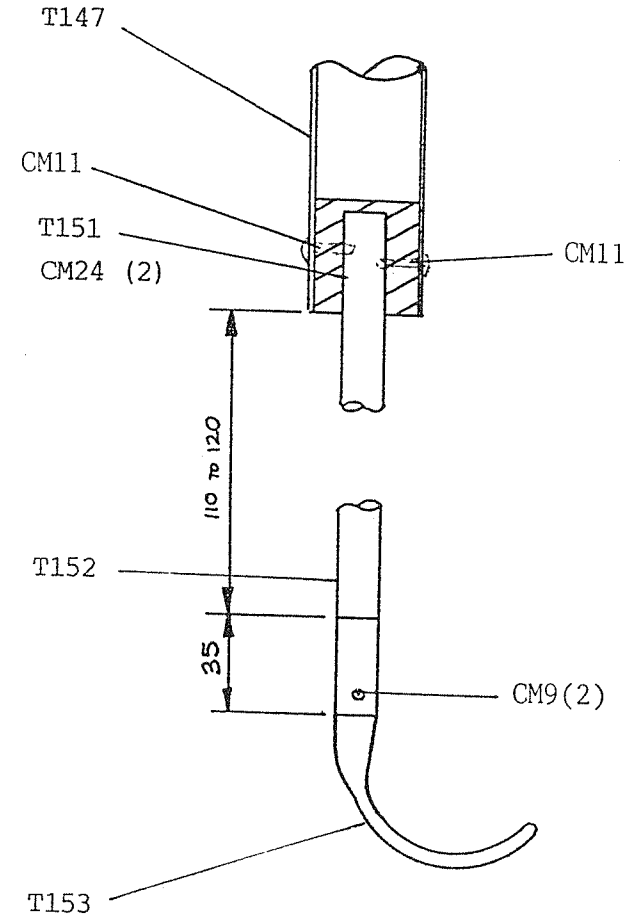


FIGURE 28

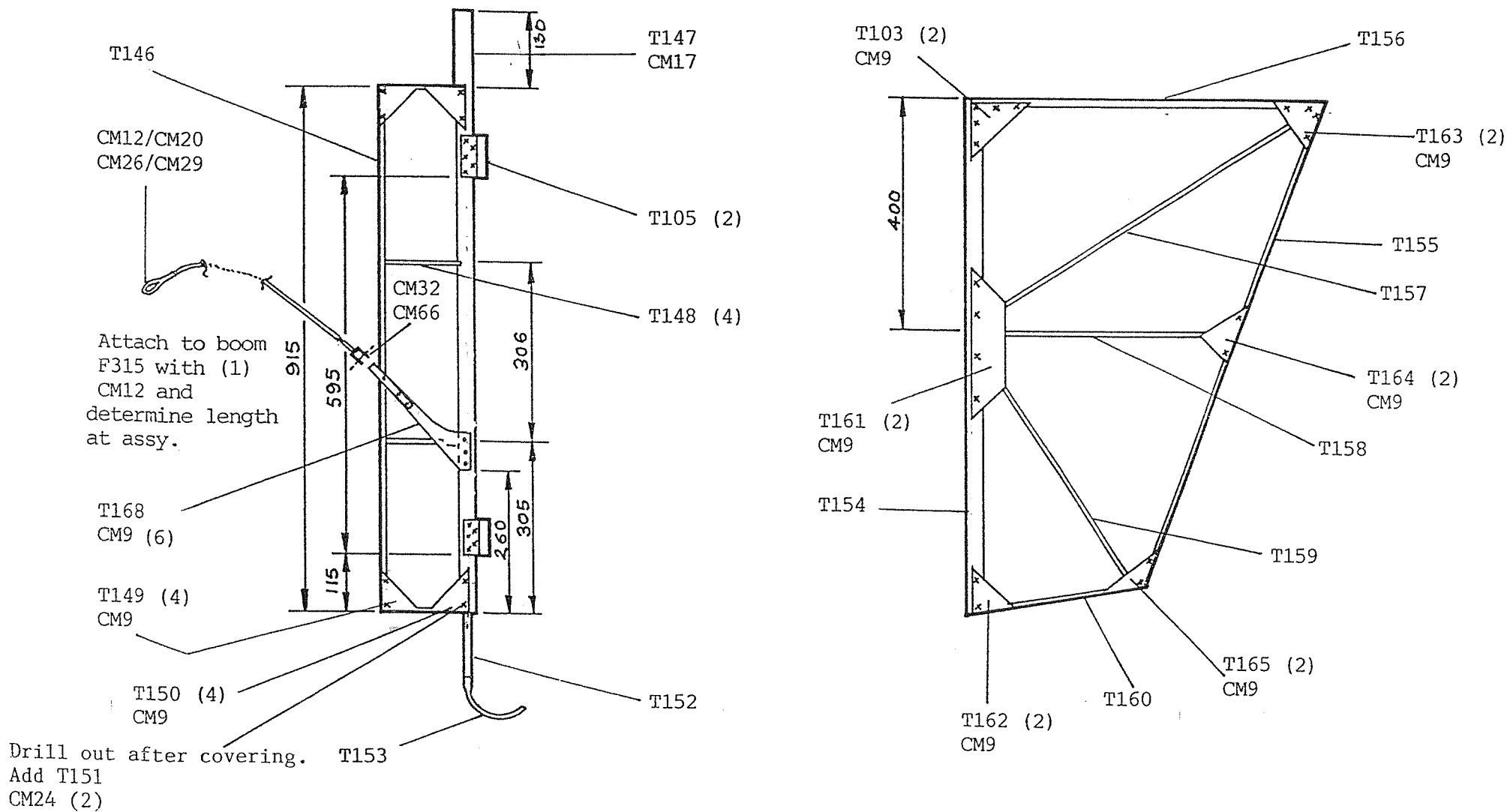


FIGURE 29

ELEVATOR

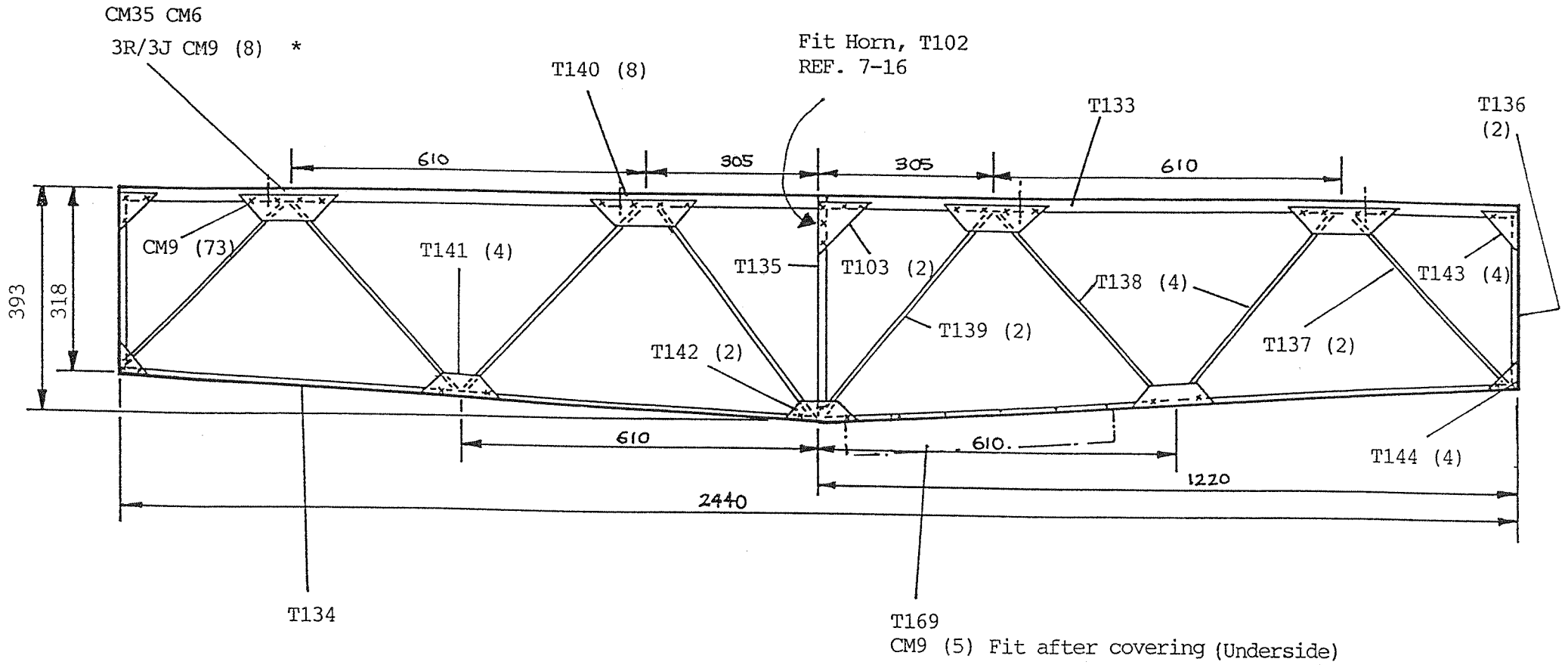
PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
T133	1	L.E. Elevator	BOND	1.2
T134	1	T.E. Elevator	BOND	1.2
T135	1	Channel Elevator		
T136	2	Rib Elevator	BOND	1.8
T137	2	Rib Elevator	BOND	1.8
T138	4	Rib Elevator	BOND	1.8
T139	2	Rib Elevator	BOND	1.8
T103	2	Gusset Elevator Horn		
T140	8	Gusset Elevator	BOND	1.8
T141	4	Gusset Elevator	BOND	1.8
T142	2	Gusset Elevator	BOND	1.8
T143	4	Gusset Elevator	BOND	1.8
T144	4	Gusset Elevator	BOND	1.8
T102	1	Horn Elevator	BOND	1.8

Fit and rivet in position the 4 anchor nuts - 3R - before starting assembly.

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FIGURE 29



\* Fit 3R Anchor Nuts prior to assy. on T133



FIGURE 30

TAILPLANE AND FINS

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
T111	1	L.E. Tailplane PORT		
T112	1	L.E. Tailplane STB.		
T113	1	T.E. Tailplane PORT		
T114	1	T.E. Tailplane STB.		
T115	2	Channel Tailplane		
T118	2	Rib Tailplane	BOND	1.8
T119	1	Sleeve PORT		
T120	1	Sleeve PORT		
T121	1	Spacer STB.		
T122	1	Sleeve STB.		
T123	4	Gusset Tailplane		
T124	4	Gusset Tailplane		
T126	4	Gusset Tailplane		
T127	4	Gusset Tailplane	BOND	1.8

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FIGURE 30

TAILPLANE AND FINS

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
T128	4	Gusset Tailplane	BOND	1.8
T129	1	Insert Tailplane		
T167	1	Insert STB.		
T117	2	Fin Tailplane	*	1.4

\* Bond in the inserts CM1 and CM2 using the same preparations and procedures as for the monocoque.  
Apply REDUX CM99 to the edges - PROCESS SHEET 5.

Select a tube the same diameter as the tailplane location holes in the boom and insert it. Lever the tube to the point where it aligns with the hole on the other side of the boom. Repeat for the other side. The tube should now pass through both holes with no play. Do not file out the holes - this will result in play from the tailplane in flight.

Rivet on the sleeves, T119 and T120, onto the PORT L.E. and T.E. Place in boom and ensure they are fully through the boom. Check for symmetry and making sure the PORT tailplane is flat, attach the T.E. to the L.E. Fit T115, Channel. Withdraw and build STARBOARD side to mate, less Channel T115.  
Re-install and making sure ends are butted fully home, fit T115 to the STARBOARD side.

FIGURE 30

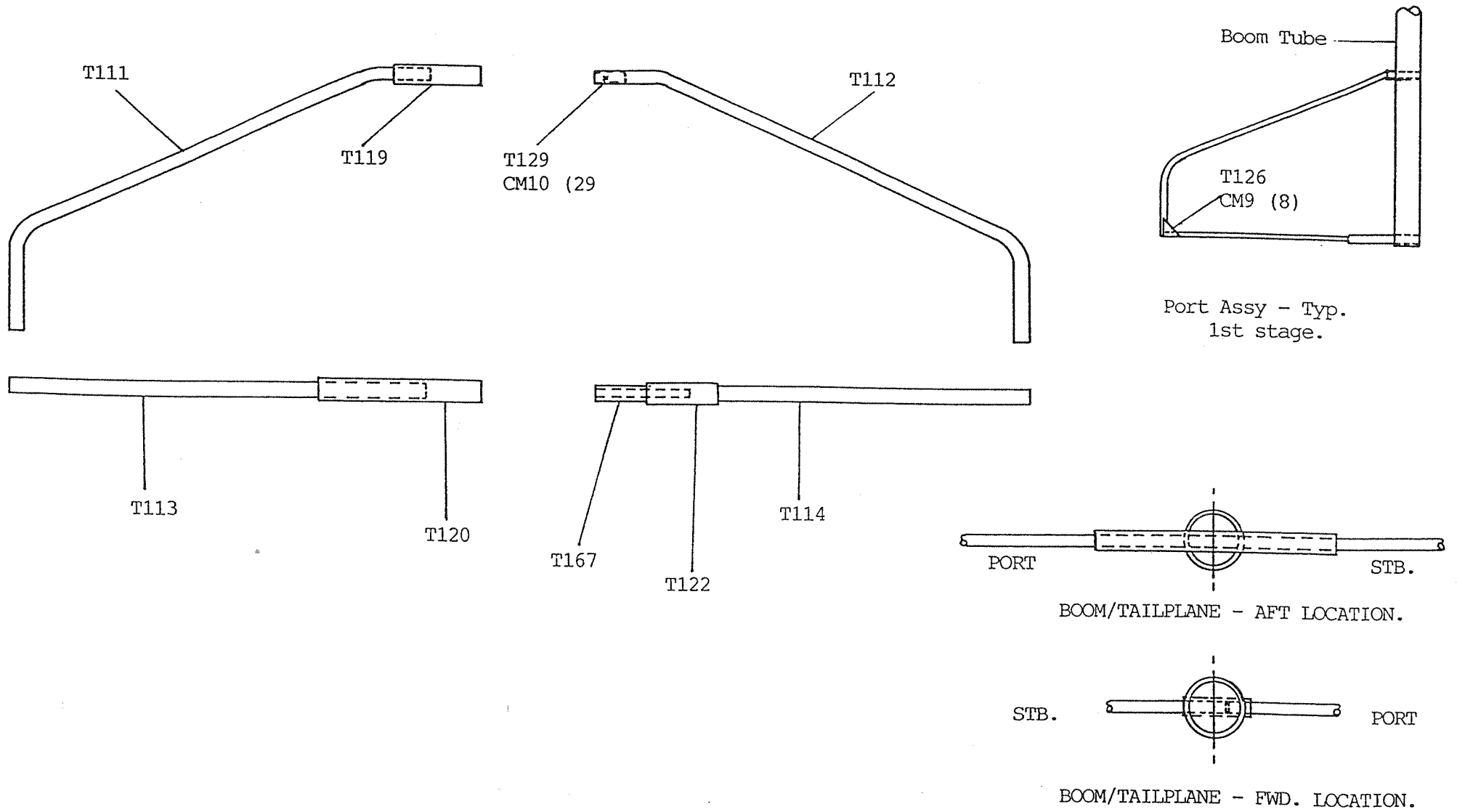
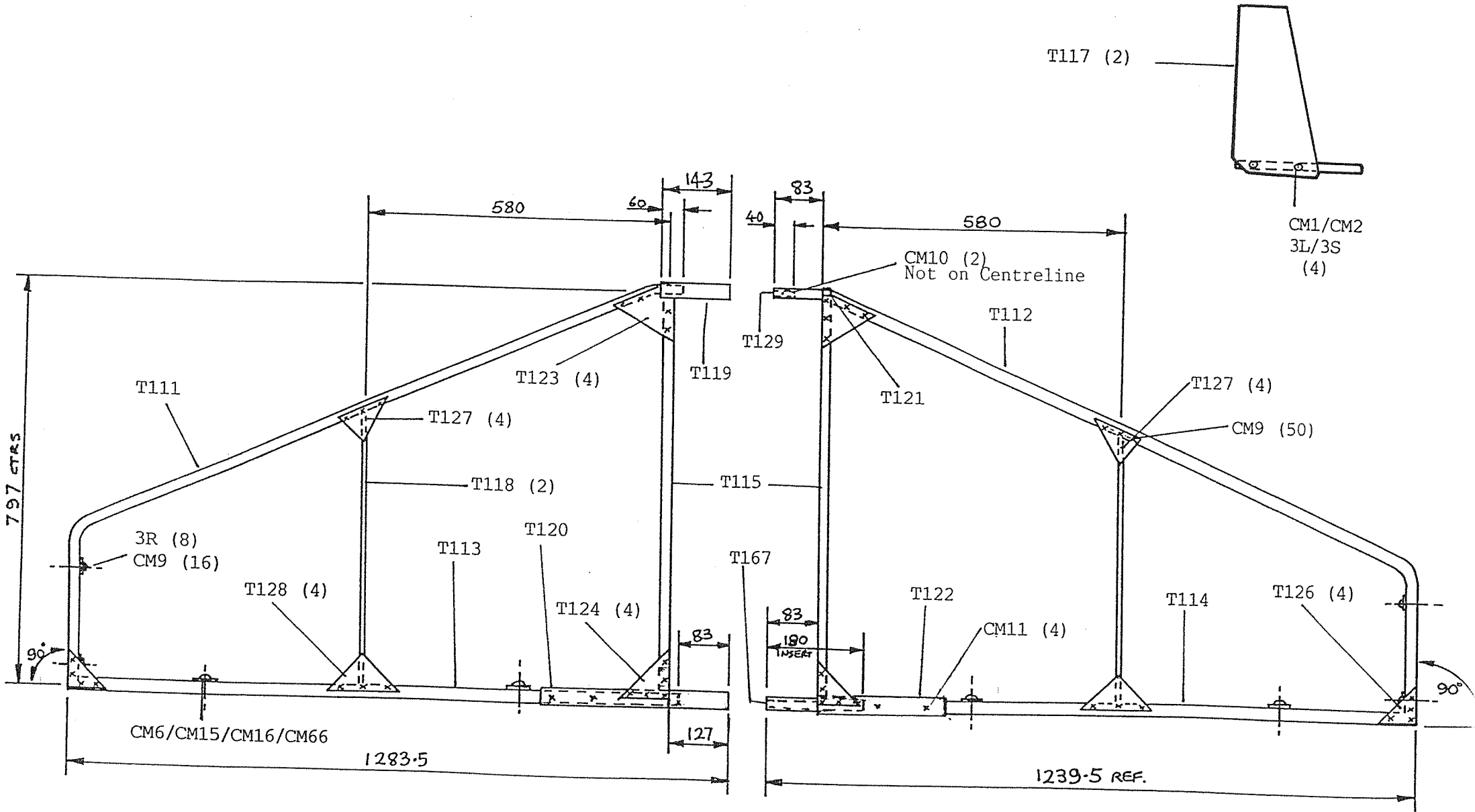


FIGURE 30



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### INSPECTION

Ensure this inspection is effected and recorded on page F before proceeding with covering and painting.

### COVERING AND PAINTING

Whether to cover and then paint or paint and then cover depends on the type of paint selected.

When using Inmont Paint the fabric can be attached to the painted surface. If ICI Spectrum 2-Pack Paint is used then the fabric should be attached to the primer surface only prior to painting.

When you have decided on the type of paint you require you MUST consult with CFM Metal-Fax Ltd. prior to proceeding with the covering and painting.

12th FEBRUARY, 1990

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5-13