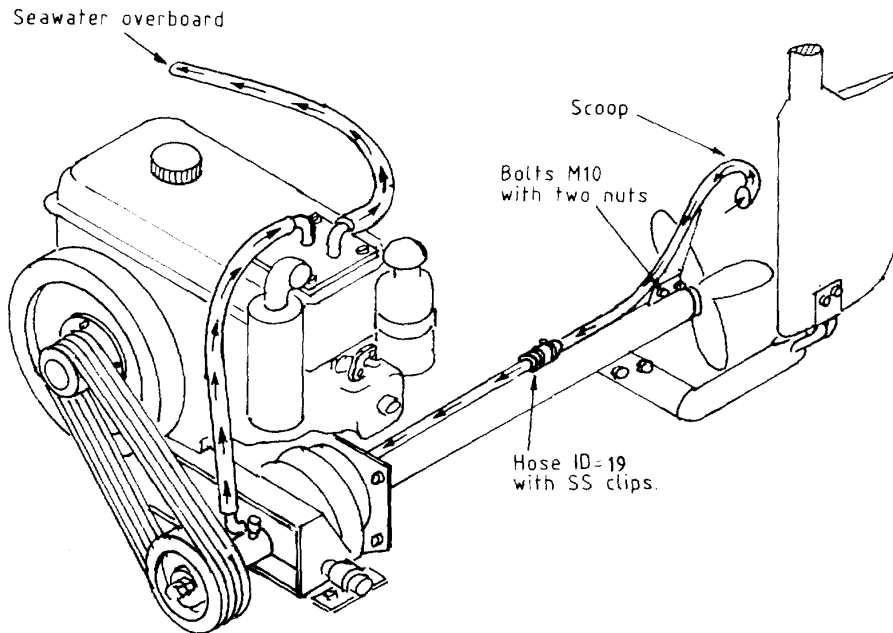


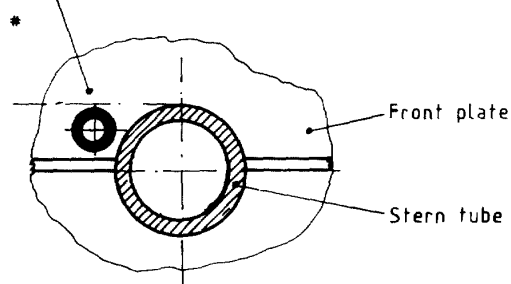
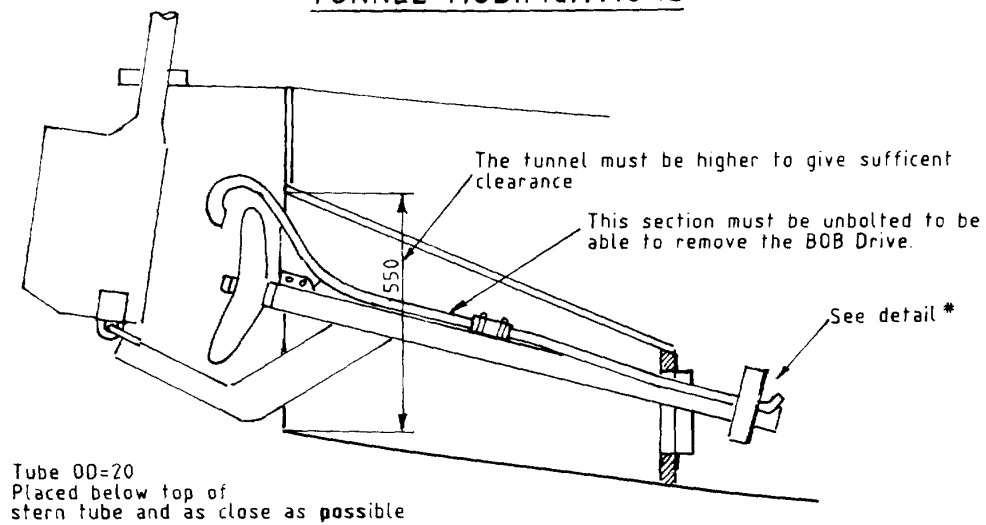
SEAWATER COOLING SYSTEM

31

This system is not suitable where there is sand mixed in the seawater (surf crossing and beach landing)

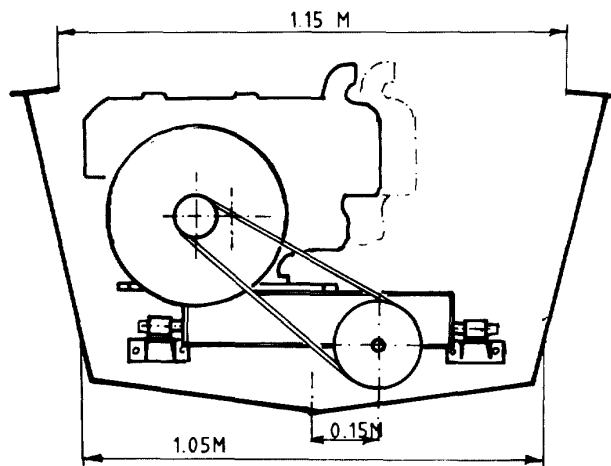


TUNNEL MODIFICATIONS



WIDTH REQUIREMENTS FOR INSTALLATION

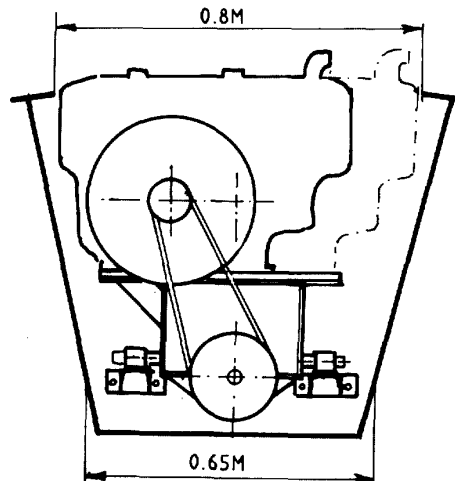
32



SIDE MOUNTED ENGINE

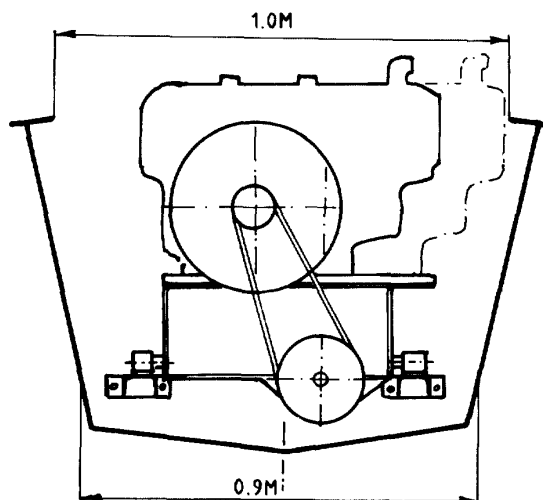
The side mounted engine gives a low installation with passage on one side.

Note that the tunnel is not on centre



TOP MOUNTED ENGINE WITH NARROW BASE

This is the only installation possible in a narrow canoe.



TOP MOUNTED ENGINE WITH A WIDE BASE

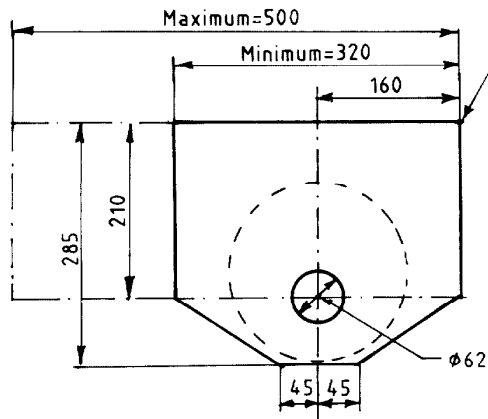
The wider base gives less force on the pivots and should be used whenever the width of the craft allows.

Note that the tunnel is not on centre.

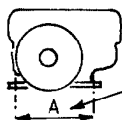
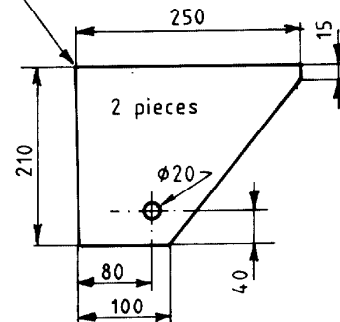
CHASSIS - TOP MOUNTED ENGINE

33

① FRONT PLATE

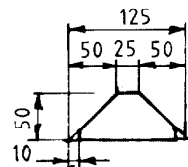
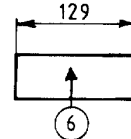
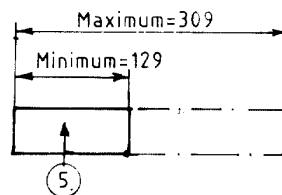
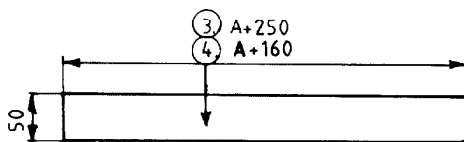


② BRACKETS

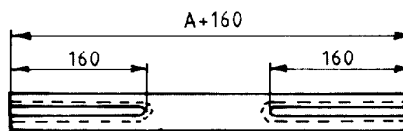


A=Distance between engine bolts

FLAT IRON : 6x50



⑦ BRACKET (short base only)



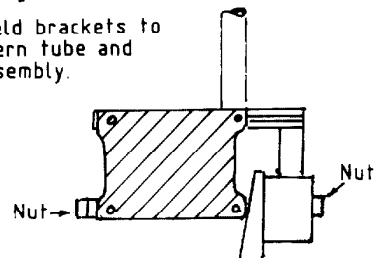
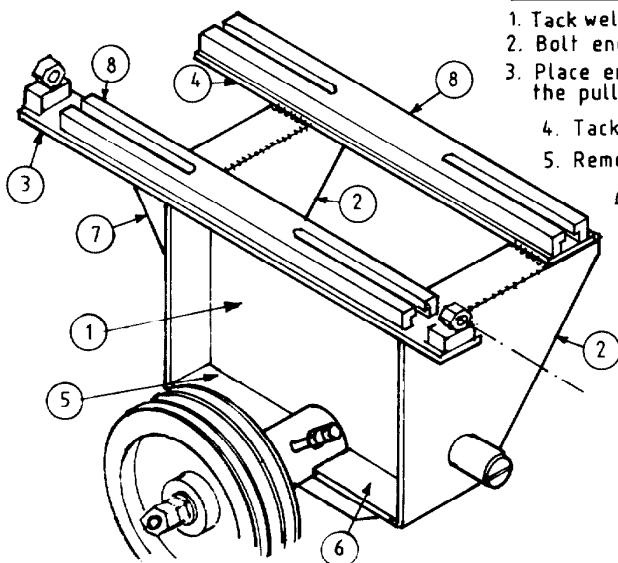
⑧ ENGINE MOUNT 20x40 2 pieces

See page 17 for details on slot

ASSEMBLY

1. Tack weld ⑧ to ③ and ④
2. Bolt engine to ⑧ in extreme right position
3. Place engine on chassis and move until the pulleys are in a vertical line
4. Tack weld ③ and ④ to ① and ② and stern tube
5. Remove engine.

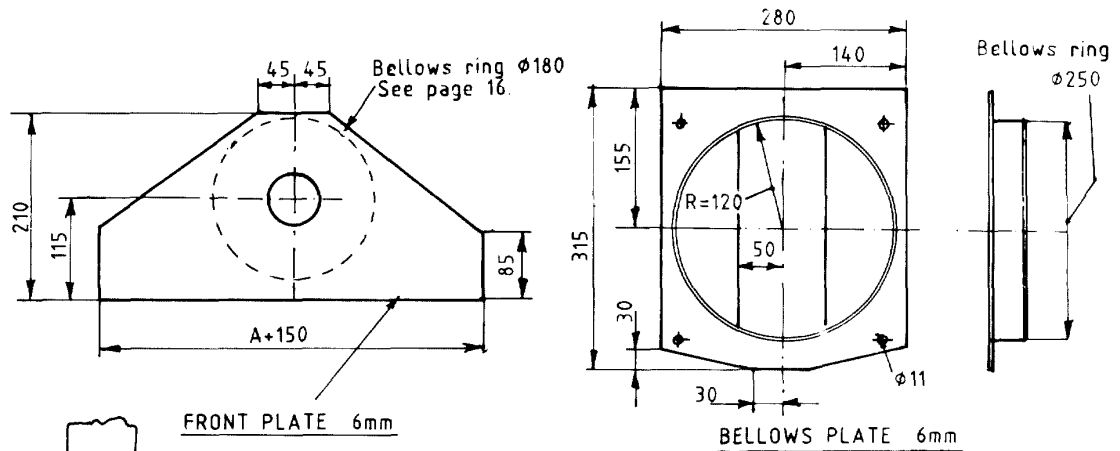
6. Weld brackets to stern tube and assembly.



If there is insufficient space to use a 12x180 bolt, use a block of wood and a wedge to shift the engine.

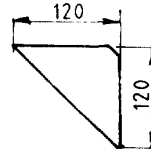
CHASSIS - FORWARD MOUNTED ENGINE

34

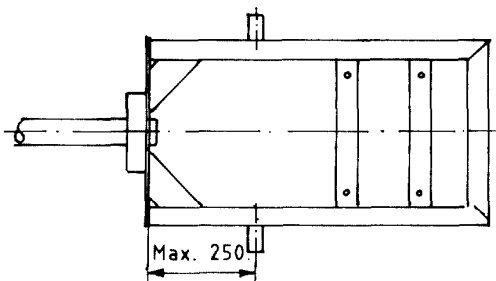
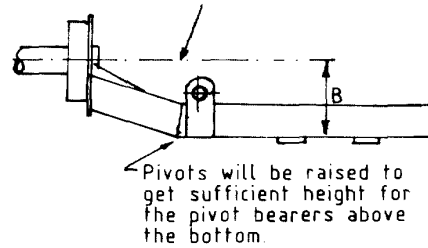
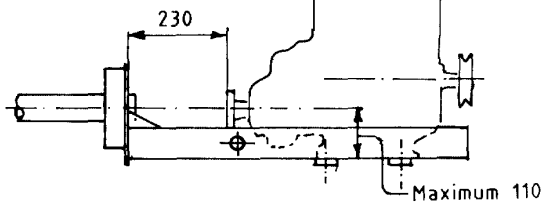


FRONT PLATE 6mm

BELLOWS PLATE 6mm



If distance B is greater than 110, engine bed like this.



Stern tube OD=60.3 t=6.3 length=1450

6x40x70

6x50

Loose steel shims(4)

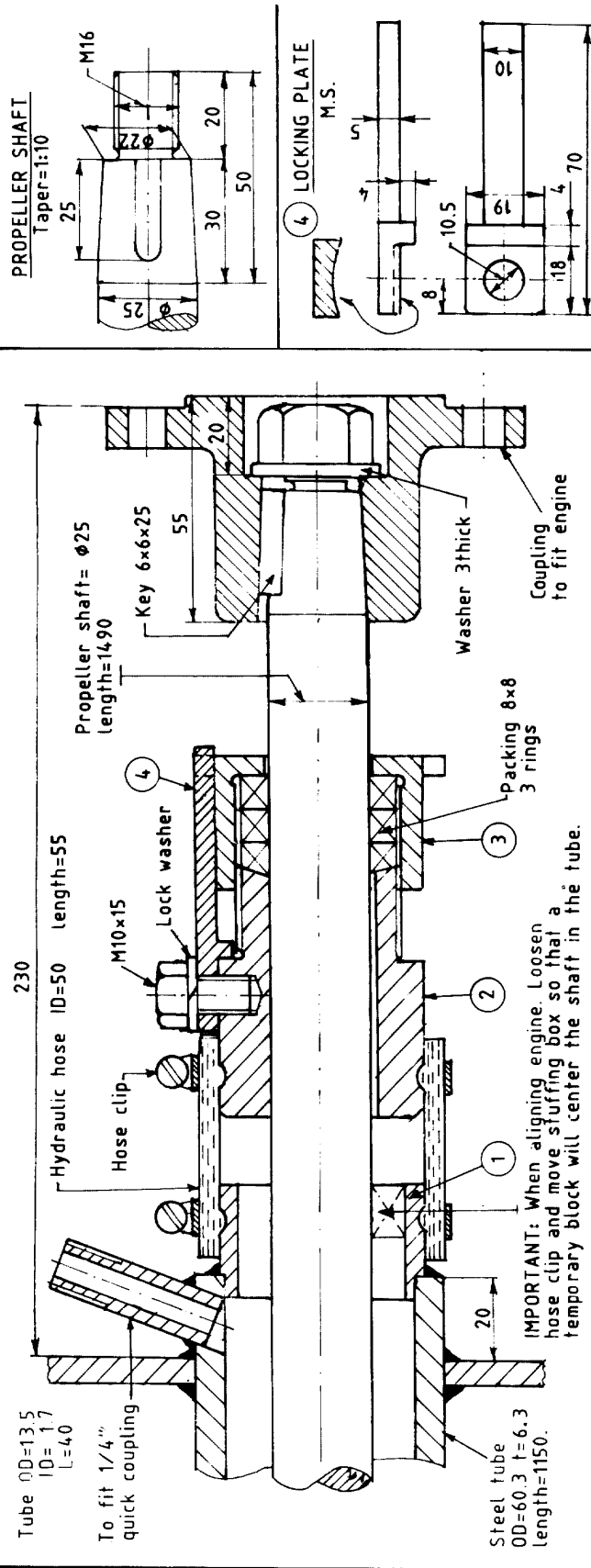
12x50 steel plate

ASSEMBLING PROCEDURE

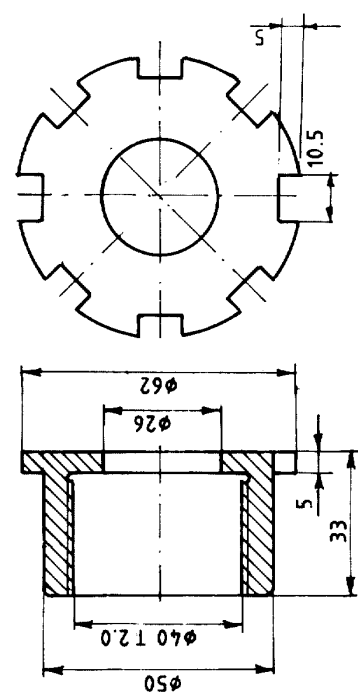
1. Bolt engine to 12x50 flat iron with 4mm steel shims.
2. Tack weld 12x50 flat iron to frame (6x40x70)
3. Align engine to propeller shaft. Tack weld frame to front plate and knees.
4. Remove engine and weld assembly.

FORWARD MOUNTED ENGINE-FLEXIBLE STUFFING BOX

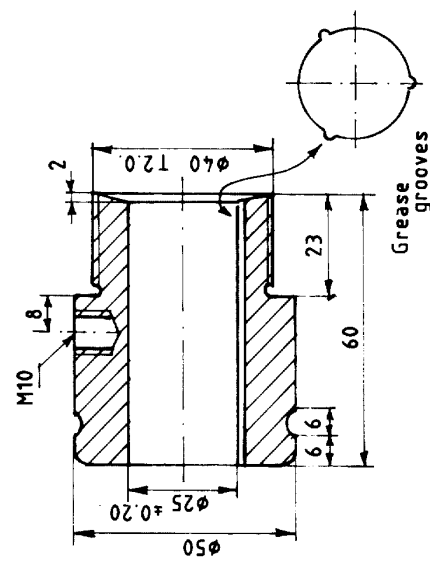
35



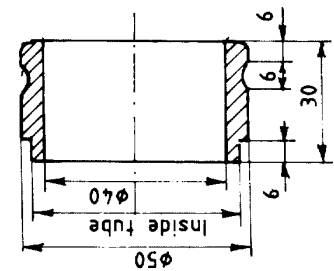
③ PACKING CAP
Brass



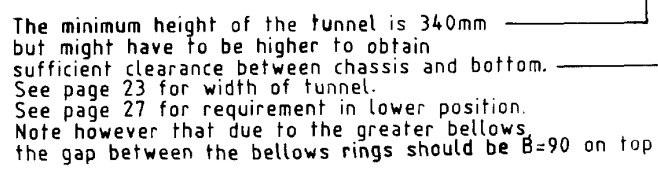
② STUFFING BOX
Brass



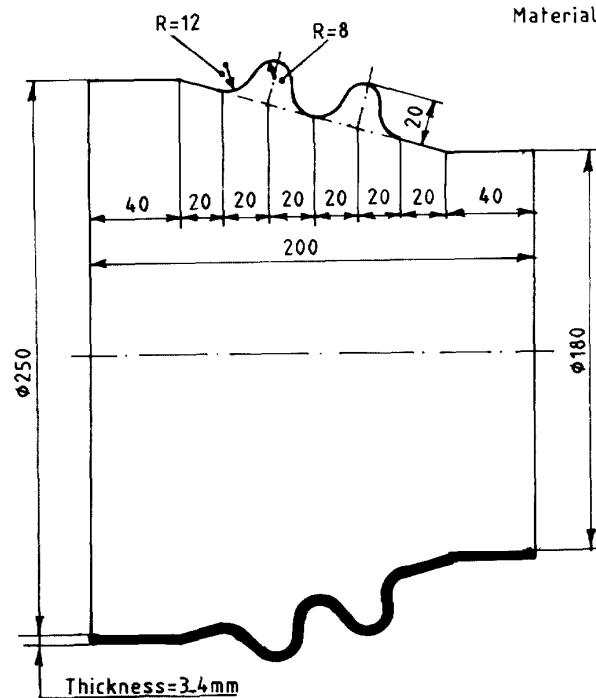
① EXTENSION SOCKET
M.S.



36



Material : NEOPRENE



ENGINE PROTECTION

37

WATER-COOLED ENGINE

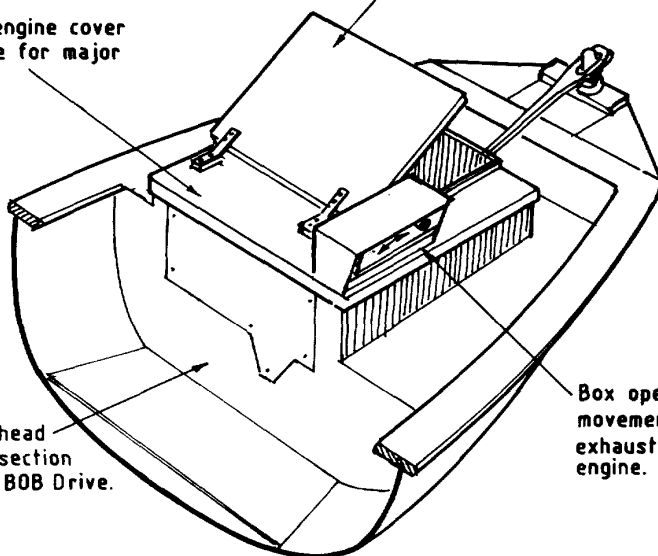
Below is shown an engine compartment for a side mounted engine.

The whole engine cover is removable for major repairs.

The lid provides access to engine for starting and maintenance. Lid can be kept half open when engine is running.

Watertight bulkhead with screwed-on section for removal of BOB Drive.

Box open on one side allows movement of extended exhaust pipe during tilting engine.

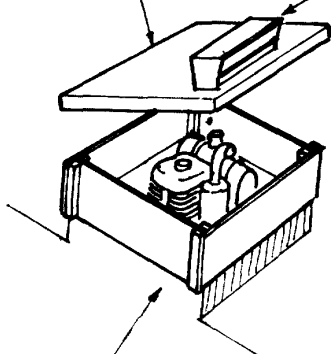


AIR-COOLED ENGINE

Cover for crossing heavy surf and protection of engine ashore

Box for exhaust

The engine installation must permit free flow of air in normal operation.



For surf-crossing where some protection is required, a raised coaming with a lid can be used. Lash down with rope.

