



- List of Stern Gear:**
- Propeller** 3-blade, aluminium bronze; size for quote purposes 330mm Ø x 205mm pitch; keyed and tapered to suit shaft. 330mm is maximum Ø.
  - Shaft** 20mm Ø stainless steel. For quote purposes = 900mm. Shaft keyed and pinned to engine half coupling. Shaft tapered 1:10 and keyed for propeller.
  - Stern Tube** 32mm OD x 3mm wall x 350mm length, manganese bronze tube; ends turned true.
  - P-bracket** Cast in manganese bronze, generally to drawing. Clearance between aft face of bearing housing and fwd face of propeller boss is 10mm. Bored for 35mm OD cutless bearing.
  - Bearing** Brass case cutless bearing for 20mm shaft. Simpson Lawrence No. 1806001 (shaft Ø 20mm; OD 35mm; length 80mm).
  - Seal** Deep Sea Seal 'Set 1' (shaft 20-24; tube 30-34). Available from Halyard Marine, Whadden Business Park, Southampton Road, Whadden SP5 3HF

- Notes:**
- All dimensions in millimetres unless otherwise noted.
  - Shaft angle is 12°.
  - Shaft height is -47mm at Position -3792 and -366mm at Position -5292.
  - Stern tube is glued in with WEST™.
  - Substantial WEST™ fillets on each side of beds and on bed/frame joins.
  - End-grain glue (WEST™) and screw fwd ends of beds to Frame 9.
  - WEST™ beds to hull skin. Screw up from hull into beds with 14g bronze or stainless screws.
  - Fix P-bracket with 6 x 6mm countersunk bronze or stainless bolts, drawn up on large pattern washers inside.
  - Starting handle is extended to swing clear of fwd face of centrecase. Starting handle is 58mm to starboard of centreline.

- General Notes:**
- All dimensions are in millimetres unless otherwise noted.
  - The Zero Point is the intersection of the Datum Water Line (dwl) with the stemface.
  - Positions are measured fwd and aft (marked "-") of the Zero Point.
  - Heights are measured above and below (marked "+/-") the dwl.
  - Offsets are measured each side of the fore-&-aft centreline (marked "t" or c/line).
  - Waterlines are designated "w" followed by their height.
  - Buttocks are designated "b" followed by their offset.
  - Diagonals are designated "d" followed by their start height on the centreline and their angle to it.
  - Offsets on diagonals are measured down the angle of the diagonal.
  - Offsets are to inside of skin unless noted otherwise.

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**Boat 012**  
**Engine Installation 1**

Scale	1/10 & 1/2
Date	14/01/2009
Plan No.	012/006/01
Issue No.	01 web
Drawing Size	895 x 305 - 35" x 12"

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