

Transom Assembly Installation

BOAT CONSTRUCTION and PREPARATION

Drive unit is designed for installation in boat transoms which have 13° to 16° of angle and thickness of 2" (51mm) minimum to 2 1/4" (57mm) maximum (Figure 1).

Transom surfaces MUST BE parallel within 1/8" (3.0mm), measured at top and bottom of cutout hole. Area covered by gimbal housing (on outside of transom) MUST BE flat within 1/16" (1.5mm). Area covered by inner transom plate (on inside of transom) MUST BE flat within 1/8".

If boat has a keel, keel MUST BE removed 4ft. (1.2m) forward of transom (Figure 2) to prevent propeller ventilation and slippage.

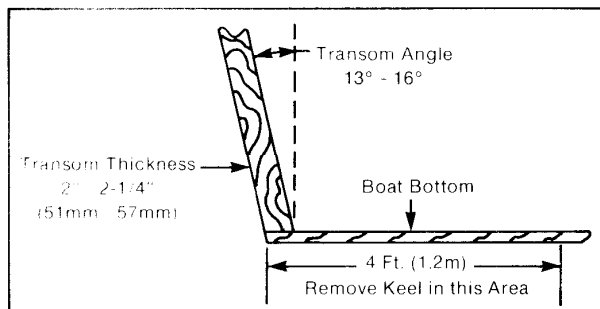
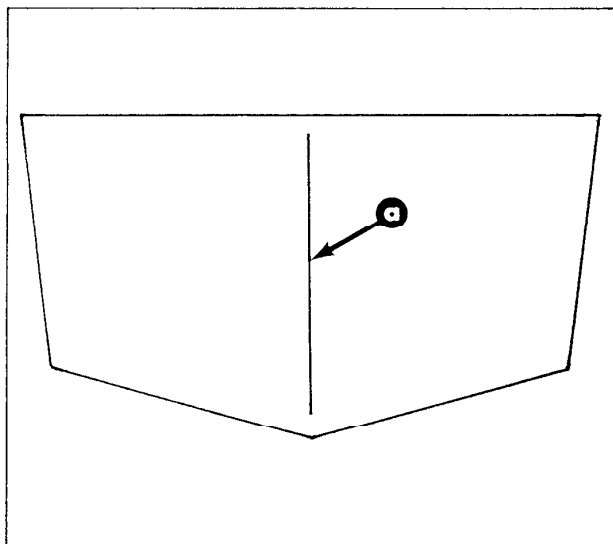


Figure 1. Transom Angle and Thickness

FINDING CRANKSHAFT CENTERLINE

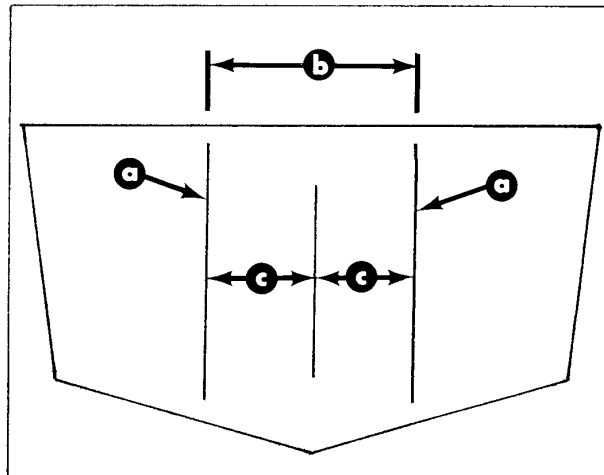
NOTE: The following instructions will provide a stern drive unit mounting location that is suitable for most boats. Best mounting location for a particular boat, however, can be determined only by testing.

1. Locate and mark vertical centerline(s) of transom, as shown in Figure 2 or 3.



a - Draw a Vertical Centerline at This Location

Figure 2. Locating and Marking Vertical Centerline for Single Installations



- a - Draw a Vertical Centerline Thru Desired Mounting Locations
- b - Vertical Centerlines MUST BE a Minimum of 36-1/2" (925mm) Apart for Side-by-Side Installations and 21" (535mm) Apart for Staggered Installations
- c - Vertical Centerline MUST BE an Equal Distance from Boat Transom Vertical Centerline

Figure 3. Locating and Marking Vertical Centerlines for Dual Installations

2. Determine location of crankshaft centerline, using either method "A" or "B". Method "A" is preferred.

A. 90° Straight Edge Tool Method

- 1) Construct 90° straight edge tool, as shown in Figure 4.
- 2) Apply straight edge to boat bottom as shown in Figure 5 or 6.

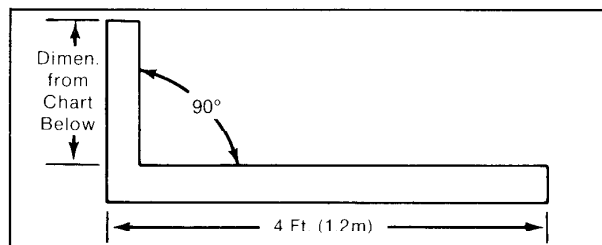


Figure 4. 90° Straight Edge Tool

STRAIGHT EDGE TOOL VERTICAL DIMENSION CHART		
Installation Type	Dimension	Notes
Single Installation	16" (406mm)	This Dimension Will Place Drive Unit Anti-Ventilation Plate 1" (25mm) above Boat Bottom
Dual Installation	15" (381mm)	This Dimension Will Place Drive Unit Anti-Ventilation Plate Flush with Boat Hull

NOTE: The Above Dimensions Will Provide a Satisfactory Drive Unit Mounting Height for Most Boats. Dimension, However, Can Be Increased Slightly on Some Boats to Provide Better Performance. Only by Testing Will It Be Possible to Find the Best Drive Unit Mounting Height for a Particular Boat.