

## **(Instructions for 20 & 25" Shaft Motors)**

### **OUTBOARD MOTOR BRACKET INSTALLATION RECOMMENDATIONS:**

**First and foremost** the boat transom must be properly prepared prior to installing the outboard motor bracket. It is **strongly** recommended that a professional fiberglass boat repair facility be contacted to close the outdrive cutout and / or repair or replace any rotten wood found in the transom. Additionally, if the strength of the transom is in any way questionable, an additional three-quarter inch sheet of properly fiberglassed - in plywood should be installed across the inside of the transom. Other reinforcements may be required or recommended by your fiberglass boat repair facility, especially if twin V-6 outboards are to be installed or the newer 4 stroke engines. The boat owner / operator is responsible for ensuring that the boat is properly repaired and prepared prior to installing the outboard motor bracket.

### **SINGLE OUTBOARD INSTALLATION:**

**Measure and mark centerline of both boat transom and bracket**

**when installing these marks must line up !**

Measure from the centerline of the keel using a framing square and mark the transom at 24" for 25"shaft motor or 19" for 20" shaft motor. Install the bracket so that the top forward edge of the bracket is 24" for 25"shaft motor or 19" for 20" shaft motor above the keel, centered with the keel and level on the boat transom. The top of the motor mount should measure 28½" (depending on setback) above the keel. When the motor is installed, the anti-ventilation plate should measure approx 3½ "above the center of the keel (setback may change this measurement). After water testing, the motor may be raised using the installation bolt holes on the motor mounting plate if a higher installation offers better handling or performance.

The above motor height measurements are a recommended beginning point. Individual boat hulls have different performance characteristics and some may perform better with the motor raised an additional two or three inches. Achieving optimum performance is usually obtained by trial and adjustment.

For ALL engine brackets the setback determines the motor mount leading edge height. Please call and ask for help BEFORE drilling any holes and we will walk you through it.

### **MOUNTING THE BRACKET:**

It is recommended that ½ inch stainless steel bolts be used when installing the bracket. The bracket is not predrilled (unless requested), the owner / installer must determine where to drill the bracket and boat transom. All holes drilled through the boat transom and the bracket to boat seam must be sealed using a below the water line marine sealant (i.e. 3M 5200). Additionally, it is recommended that aluminum plate or channel be used on the inside of the transom to ensure the strength of the installation.

### **SURFACE PREPARATION:**

It is recommended that the bracket be properly sanded, primed and painted prior to installation and that a non-skid preparation be applied to swim platform surfaces. The owner/ installer assumes responsibility for surface preparation including any safety issues concerning the bracket surface.

Notes: Please call before mounting or drilling any holes, Epic Marine will gladly walk you through measuring and placement. Different set back brackets have different mounting height recommendations. There are standards IE: Every 12 inches of setback the cavitation plate rises 1 inch above the keel. SO, a typical 26" setback bracket the leading forward edge of the bracket top will be at approx: 2.5" above the keel. Different engine brands and use requirements will also affect mounting height.