

## Boat Performance

### Boat Acceleration

#### WARNING

A tight grip on the steering wheel while handle is always essential and is required when accelerating. Accelerating or when slowing the boat, the handle with Power Trim, when slowing moving speed, the outboard should be moved to either a forward or neutral position. When slowing moving boats will vary and will put in one direction until a balanced condition has been attained. If the outboard is allowed past the fast-speed steering condition, the steering wheel while handle then will have a tendency to put in the opposite direction. Excessive slowing past the fast-speed steering position will result in increased slowing loads, and in most boat applications, a decrease in performance.

#### CAUTION

When slowing boat with dual outboards, both outboards should be at approximately the same tilt angle and be about out out simultaneously (to prevent boat from pitching side-to-side) with desired boat attitude achieved. Outboards can then be trimmed individually to precisely adjust boat trim angle and pitch.

1. With boat in water, with the outboard(s) trim button, to remote control handle(s) so that the outboard(s) the side of boat is horizontal. This is a typical average setting that should give reasonable acceleration and top speed.
2. Do for a short familiarization run of various throttle and trim settings BEFORE starting testing.

NOTE: Instruments should be read with eye directly in front to eliminate any error in reading the instruments.

3. When making either top speed or acceleration runs, best accuracy will be obtained by running with or against any wind. Side winds require driving at a constant turn to keep the boat moving straight-ahead. If winds are 10 MPH (16 km/hr) or greater, it is suggested that all acceleration runs be made downwind.

### Boat Test Chart (Example)

Propeller Diameter and Pitch	RPM 100%	RPM 50%	Acceleration Time in Seconds	Propeller Break Loose		Wind during Run		Water Condition	Air Temperature (°F)	Comments
				During Acceleration	During Turns	Direction	gust			
20" x 18" 20" x 18"	2200 2100	10 10	1 2	400 no	no no	↗	1 1	2" chop 2" chop	73 73	

\* WOT is wide-open-throttle

4. Use the speed boat (wide-open-throttle) run should be kept with the boat typically facing in direction of wind coming outboard. (Always keep in mind WOT runs should never be made downwind or with the outboard outboard edge down (point to the Upstream and Downstream Motors).

NOTE: When performing an acceleration test, it is recommended that a dual watch be used to measure water direction. A dual watch with a second hand can also be substituted.

5. An acceleration test can also be performed if desired. When the boat with dual outboards in the water and outboards are equal. A stop watch should be started as the handle is quickly pushed to start full-throttle position. Stop the watch as the boat reaches steady speeds past 50 MPH (80 km/hr). Several runs should be made to secure a good average.
6. Prior "break loose" condition higher RPM, if not excessive, in some cases can be observed during acceleration. If excessive "break loose" occurs, it can be decreased by trimming the outboard handle up. If it remains excessive with all trimmer position, the outboard must be serviced.
7. It is suggested that all appropriate data be recorded on a sheet (such as that illustrated, following) and retained for future reference.
8. After several propellers of different pitch and/or design have been tried, select one that best serves the general purpose of the boat. The selected propeller should enable the engine to operate within its recommended full throttle RPM range, without excessive propeller "break loose" during acceleration or RPM. A second propeller that would make both a reliable spare or a special purpose alternate might also be desirable.

NOTE: A higher pitch often gives best top speed, but the best lower pitch gives adequate top speed with much better acceleration.

# Mercury Outboard Installation Manual

**United States Department of the Army**



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