

## QUICKSILVER PROPELLER DESIGN

Quicksilver propellers are designed specifically for Kiekhaefer Mercury Outboard Motors by experienced propeller-research engineers who maintain expert supervision on pitch, diameter and balance in manufacture. These quality propellers are proven at the factory's testing grounds in Wisconsin and Florida as they are checked continually while in operation on most every make of boat. (Consult your Kiekhaefer Mercury dealer for information on the company's Boathouse Bulletins which compare boat length and beam, net and gross load weight, transom heights, propellers and speeds attained.)

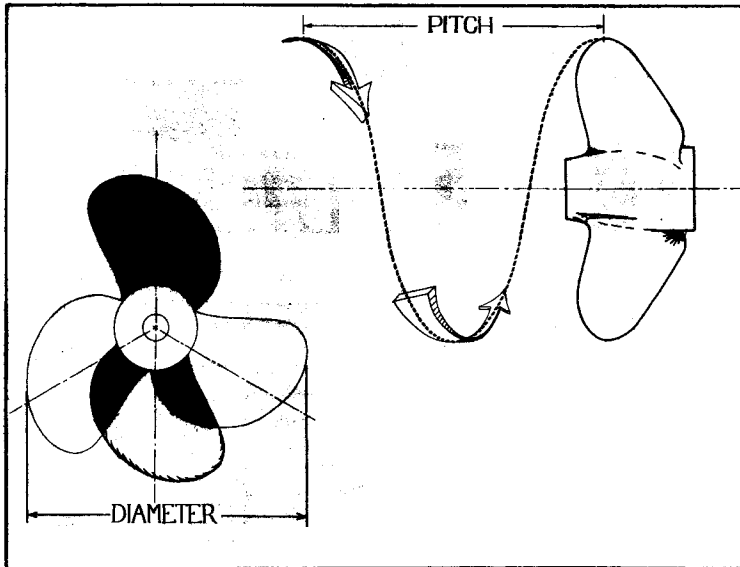


Figure 1. Measuring Propeller

## THEORY OF PROPELLER PROPULSION

There are only two dimensions of a propeller which concern boat and motor owner:

1. **Propeller Pitch** - The theoretical distance a prop advances through the water in one revolution with no slip. (See Figure 1.) The percentage of slip varies considerably depending on the boat and load characteristics.
2. **Propeller Diameter** - The propeller blade distance, from one blade to tip of an opposite blade.

## QUICKSILVER PROPELLER PROTECTION

Flo-Torq Propeller Drive, exclusive with Kiekhaefer Mercury Outboard Motors, means safe, sure propeller protection that adds Mercury's reputation for getting you there -- and back! Comprehensive rubber bushing cushions normal loads . . . slips on impact guard propeller . . . eliminates the necessity for shear pins. Torq Propeller Drive is an important safety feature . . . the unbonded rubber bushing propeller drive!

## PROPELLER SELECTION

Proper propeller selection can best be made if approximate speed is known or can be estimated. A propeller should allow engine to turn at the maximum recommended RPM at the highest speed the boat will travel (5,400 RPM on Mark 55-55E-30-30E 25-25E). For light, fast boats, use higher pitch propellers -- as shown in chart on next page -- and for cruisers and heavier boats where the engine will operate for longer periods near full throttle, lower pitch propellers.

Propellers should be selected by using the known boat weight by the gross load (includes boat weight, engine and fuel, plus passengers and gear) at which the boat will be operated. For

*See Your Local Mercury Dealer for*