



Tools:

- Crescent Wrench
- Pliers
- Gloves (recommended)
- Prop Puller

Propeller Installation Instructions:

Steps to Remove Existing Propeller with Traditional Prop Puller (228S or 330S)

1. Remove the cotter pin.
2. Loosen the propeller nut at the end of the shaft until there is about a 1/4 inch space between the nut and propeller hub.
3. Grab your ACME prop puller and back out the puller bolt to allow for installation.
4. Insert the u-shaped front of the puller around the shaft and aft of the strut. Using a wrench, tighten (clockwise) the puller bolt cap to apply pressure on the end of the shaft. *Tip: DO NOT overtighten because this can cause damage to the puller and/or the propeller. And DO NOT use an impact wrench.*
5. Hit the u-shaped front of the prop puller (the side opposite of the bolt) 2-3 times with a hammer to free the propeller from the shaft. Repeat, if necessary.
6. Once free, remove lock nut while holding the propeller in place.
7. Before you slide the propeller off the shaft, place key in upward position and remove the key.
Note: This is not applicable for spline propellers.

Steps to Install New ACME Propeller

1. Note where the new propeller is fully seated on the shaft taper by placing the propeller on the shaft without the key. Once verified, remove the prop from the shaft.
2. Place the key in the prop shaft. *Tip: Improper install may cause the key to jam, preventing the propeller from moving to full seated position. This step is not applicable for spline propellers.*
3. Install the prop onto the shaft taper (should fit snug).
4. Once the prop hub is in its correct position install the nut snugly against the propeller hub. *Tip: Tighten the nut. DO NOT exceed 50 ft/pounds torque.*
5. Install cotter pin. Use pliers to pull back the ends of the pin to hold it in place.
6. You've successfully installed your prop. Don't forget! After 5 to 10 hours of use following installation of a new prop the prop nut should be re-tightened / re-torqued due to the forces exerted on the propeller.

WARNING! Propellers have sharp edges. The use of heavy gloves is strongly recommended to protect against injury during removal, handling, or installing a propeller. And please review and take all safety precautions and guidelines noted in your boat manufacturer's user and/or repair manual. Be sure to remove the key from the ignition and the boat's power and motor are OFF.