

Installation Instructions MasterGuard Hub Kit 5A and 5S

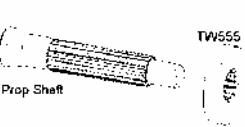
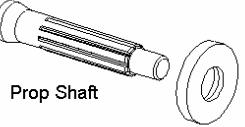
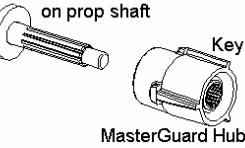
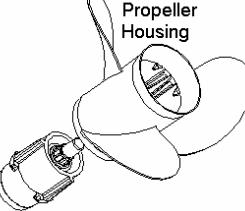
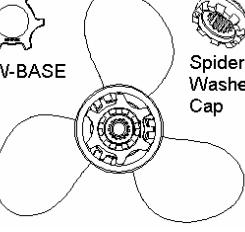
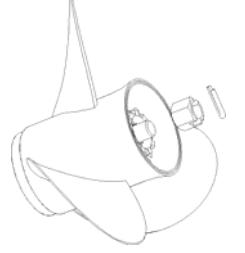
Rev. 0306

CAUTION: Before servicing propeller, be sure the engine is in neutral with ignition off or disconnected to avoid any possibility of the engine starting and causing injury.

CAUTION: Do not install any propeller without a thrust washer in place. If a thrust washer is not used, severe damage could occur to the propeller and/or engine. If you see a tapered surface toward the engine end of the prop shaft, the thrust washer is not in place on the shaft. Your thrust washer may adhere to the front of your old prop when removed.

If you have any questions, please contact your Dealer or call our Customer Service Department.

Yamaha outboards: If the propeller strikes the Trim Tab, replace with Yamaha trim tab 6E5-45371-10 available at your local marine dealer. You may have to tap on the side to loosen the thrust washer.

 Prop Shaft	1.) Yamaha T50-100hp: Replace your original OEM Thrust Washer with Turning Point splined thrust washer #TW555 included in the kit. Slide with the tapered end in first to match the tapered surface of the prop shaft. Caution: Do not install any propeller without the thrust washer in place.
 Taper Prop Shaft Thrust Washer	1.A) Yamaha 115-300hp/Nissan & Tohatsu 90-140hp: Replace your original OEM Thrust Washer with Turning Point thrust washer #TW192 included in the kit. Slide with the tapered end in first to match the tapered surface of the prop shaft. Caution: Do not install any propeller without the thrust washer in place.
 Thrust washer installed on prop shaft Key MasterGuard Hub	2.) Clean and grease the splines of the prop shaft. 3.) Slide the hub on the prop shaft with the small end of the keys facing away from the engine. Grease the keys on the hub. Greasing the keys makes future removal of the propeller housing easier.
 Propeller Housing	4.) Align the keyways in the propeller housing with keys on the hub. Slide the propeller housing onto the hub.
 SW-BASE Spider Washer Cap	5.) Place the SW-BASE ring onto the end of the keyways then seat the splined Spider Washer Cap into the SW-BASE. Note: the splines of spider washer cap should lock on to the prop shaft splines so the spider washer cap does not turn.
	6.) Install the Locking Nut and reinstall Cotter Pin per your Engine Owner's Manual for proper prop nut torque and fit specifications. Yamaha T50-100hp: reinstall your flat washer before the locking nut. 7.) Rotate Prop in neutral by hand to make sure the blades do not strike the trim tab and anti-ventilation plate. NOTE: Locking Nut should be checked for tightness every 20 hours of operation

FAILURE TO OBSERVE THESE INSTRUCTIONS VOIDS THE WARRANTY.

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US Patent #5,967,751 #6,358,008, #6,471,481 & Worldwide Patented with Patents Pending.

See warranty information on reverse

Limited Warranty:

1. Turning Point Propellers, Inc. warrants its propellers against blade failure due to defects in materials and workmanship to the original purchaser only for one year from date of purchase. This warranty is not transferable to any subsequent purchaser.
2. Turning Point Propellers, Inc. warrants MasterGuard hub rubber bushings against failure for one year from date of purchase. Turning Point Propellers, Inc. will repair or replace any defective propeller or hub at our Schaumburg, Illinois facility or at our option at an authorized repair center. Replacement or repair by other than Turning Point Propellers, Inc. or an authorized repair center relieves Turning Point Propellers, Inc. from the terms of this warranty.
3. This limited warranty does not include any of the following: damages caused by misuse, striking a foreign object, corrosion, cavitation, electro-chemical action, improper installation, or any modification or use in racing or any other competitive activity.
4. Turning Point Propellers, Inc. is not liable for consequential, incidental or indirect damages or costs caused by defects in material or workmanship. Observation of a defect should immediately be reported to Turning Point Propellers, Inc. or an authorized repair center. Turning Point Propellers, Inc. reserves the right to repair or replace the warranted propeller or hub with one of current production.
5. This is a limited warranty. Turning Point Propellers, Inc. makes no warranty other than contained herein. All obligations of Turning Point Propellers, Inc. are specifically set forth herein. Turning Point Propellers, Inc. does not authorize any person or business to assume liability or contact on behalf of Turning Point Propellers, Inc. Any actions arising out of this warranty and the sale of this product shall be governed by Illinois law and may only be brought, heard, decided in Cook County Circuit Court, in the State of Illinois, U.S.A. or in the United States District Court for the Northern District of Illinois.
6. Proof of purchase receipt must accompany any warranty claim.

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