

# 5. HOW TO OPERATE YOUR BOAT

## MAINTENANCE

1. The design of the E-Drive may require occasional cleaning to remove debris or any build-up that may occurred between moving parts. After cleaning wipe down with a cloth dampened with an aqueous based silicone spray such as Armor All.
2. The Propeller must be cleaned of weeds and other debris. Debris like lines (fishing and other) can get behind the prop, wear away the seals and allow water to enter the motor. You should check this after every 30 hours of operation.
3. The composite shaft requires periodic cleaning and lubrication for proper retraction and deployment. A coating of Armor All will provide "like new" operation.
4. The weedless 2 wedge propeller is designed to provide absolute weed free operation with very high efficiency. To maintain top performance, the leading edge of the blades must be kept smooth. If this edge is rough or nicked, restore to smooth by sanding with fine sandpaper.
5. For prolonged storage, lightly coat all metal parts with silicone spray.

## TROUBLESHOOTING

### 1. MOTOR FAILS TO RUN OR LACKS POWER

- Check batteries connections for proper polarity.
- Make sure terminals are clean and corrosion free. Use fine sandpaper or emery water cloth to clean terminals.
- Check propeller for weeds or debris.

### 2. MOTOR LOSES POWER AFTER A SHORT RUNNING TIME

- Check battery charge, if low, restore to full charge.

### 3. BATTERIES WON'T REACH FULL CHARGE

- If a battery is drained below 8 volts it will be detected as faulty by the charger. It will then be necessary to recharge this battery by an exterior charger.
- Turn off all accessories before recharging the batteries.

### 4. MOTOR IS HARD TO STEER

- Check the steering cable
- Check for accumulation of weeds or debris on the shaft
- Check if motor is not block up by sand, rocks or vegetation

### 5. PROPELLER VIBRATION DURING NORMAL OPERATION

- Check for scratches or breaks on propeller
  - Remove debris stuck on propeller
  - Remove and rotate the propeller 180°

## PROPELLER REPLACEMENT

1. Hold the propeller and loosen the prop nut with a pliers or a wrench.
2. Remove prop nut and washer. If the drive pin is sheared/broken, you will need to hold the shaft steady with a screwdriver blade pressed into the slot on the end of the shaft.
3. Turn the old prop to horizontal (as illustrated below) and pull it straight off. If drive pin falls out, push it back in.
4. Align new propeller with drive pin.
5. Install prop washer and prop nut
6. Tighten prop nut  $\frac{1}{4}$  turn past snug. Be careful, over tightening can damage the propeller

