

## 1999 MerCruiser/Alpha One Commissioning & Lay-up Checklist/Maintenance Schedule

### Spring Commissioning (At Beginning of Each Season)

- ❑ Check Power Steering Fluid Level
- ❑ Check Power Trim Fluid Level
- ❑ Check Outdrive Gear Lube Oil Level
- ❑ Check Engine Oil Level
- ❑ Check Tightness of all clamps and screws
- ❑ Ensure Unobstructed Speedometer Pitot Hole and Vent Holes
- ❑ Check Serpentine Drive Belt for wear, cracks, and proper amount of belt "play", replace if necessary
- ❑ Inspect Outdrive Bellows and clamps - bellows should not be cracked and should be soft to touch
- ❑ Check Sacrificial anodes for excessive wear (6 total), replace if necessary (Magnesium for freshwater)
- ❑ Check All fuel hoses/line for signs of wear or cracking
- ❑ If Applicable, Grease Steering Linkage with 3 pumps of 2-4-C Marine Lubricant
- ❑ Coat Steering Rod with Special Lubricant 101
- ❑ Lubricate Steering System pivot points with SAE 30W oil
- ❑ Re-torque engine mount bolts
- ❑ Grease Drive Coupler with 8 pumps of Engine Coupler/Spline Grease if not done in previous fall
- ❑ Grease universal joints if possible
- ❑ Grease Transom/Gimbal with 8 pumps of U-Joint & Gimbal Grease
- ❑ Grease two (2) Outdrive Trim/Pivot hinges with 2 pumps of U-Joint & Gimbal Grease
- ❑ Lubricate Shift Cable pivot points with SAE 30W oil
- ❑ Lubricate Throttle Cable pivot points with SAE 30W oil
- ❑ Change Water Separating Fuel Filter
- ❑ Change PCV Valve
- ❑ Change Spark Plugs (and wires, cap and rotor if necessary) after fogging oil is burned off
- ❑ Clean Flame Arrestor and Crankcase Vent Hoses
- ❑ Touch up any bare metal on outdrive with Mercury paint
- ❑ Grease Prop shaft with Special Lube 101 and put prop back on (55 ft lbs minimum torque)
- ❑ Put Anti-Corrosive/Di-Electric grease on battery terminals after cleaning them
- ❑ Put Anti-Corrosive/Di-Electric grease on trailer connector terminals
- ❑ Lubricate all zippers and snaps
- ❑ Grease trailer hubs with marine grade Trailer Bearing Grease until it slightly seeps out of hub

### Fall Lay-up (At the End of Each Season)

- ❑ Change Engine oil and filter
- ❑ Change Outdrive Gear Lube Oil and replace drain plug screws and washers
- ❑ Drain block and winterize
- ❑ Grease coupler and U Joints - requires removal of drive
- ❑ With drive removed, inspect shift linkage to ensure smooth operation. Replace if necessary.
- ❑ With drive removed, check outdrive bellows for cracks since spring inspection
- ❑ Remove any electronics, and compass if possible
- ❑ Remove battery and trickle charge periodically over winter
- ❑ Store boat with hatches open, vents in wrap, and mothballs and dryer sheets throughout

### Periodically, but not every season (depends on usage)

- ❑ Replace impeller (minimum every other year in Northeast)
- ❑ Check engine alignment when drive is removed for other servicing
- ❑ Repack trailer hub bearings (every other year with minimal use)
- ❑ Replace distributor cap, wires and rotor
- ❑ Re-torque connection of gimbal ring to steering shaft
- ❑ Replace Outdrive Bellows (all)
- ❑ Pressure test gearcase (outdrive) for seal leaks, replace seals if needed
- ❑ Replace drive universal joints
- ❑ Inspect elbows, risers and manifolds, replace if necessary