Maintenance Schedule

⚠WARNING

Always disconnect battery cables from battery BEFORE working around electrical system components to prevent injury to yourself or damage to electrical system should a wire be accidentally shorted.

NOTE: *Refer to appropriate Stern Drive Service Manual for information and procedures on stern drive maintenance items listed.*

SCHEDULED MAINTENANCE TO BE PERFORMED BY OWNER/OPERATOR

REQUIRED SERVICE	INTERVAL
Check engine oil level.	Before Operation
Check drive unit gear lube monitor.	
Check closed coolant level.	
Check water pickups for marine growth or debris.	
Drain fuel filter.	
Check/Clean seawater strainer.	Before Operation/Clean As Required
Inspect drive unit alloy anodes for erosion (Replace when over 50% eroded).	Weekly or As Required
Flush seawater section of cooling system.	**Saltwater Use**: After Each Use
Check power trim pump oil level.	Every 50 Hours of Use
Check power steering fluid level.	
Clean air filter element.	Every 50 Hours of Operation, or as Conditions Require
Inspect condition and check tension of drive belts.	Every 50 Hours of Operation or 60 Days - Whichever Occurs First
Lubricate propeller shaft.	**Saltwater Use:** Every 50 Hours of Operation or 60 Days, Whichever Occurs First **Freshwater Use:** Every 100 Hours of Operation or 120 Days, Whichever Occurs First
Replace fuel filter.	Every 100 Hours of Operation or Once A Year, Whichever Occurs First
Replace air filter element.	Every 200 Hours of Operation, or Once a Year, Whichever Occurs First
Check sacrificial anode (in heat exchanger) - Replace when over 50% eroded.	Once a Year
Check sacrificial anode (in engine oil cooler) - Replace when over 50% eroded.	
Spray power package exterior surfaces with Quicksilver Corrosion Guard.	
Clean and paint power package exterior surfaces.	As Necessary
Check battery fluid level.	Refer to Battery Manufacturer Specifications

Maintenance Schedule (Continued)

SCHEDULED MAINTENANCE TO BE PERFORMED BY DEALER

REQUIRED SERVICE	INTERVAL
Change engine oil and filter.	After 20-Hour Break-In Period, Then, for **Pleasurecraft Use**[1]**:** Every 100 Hours of Use or 120 Days, Whichever Occurs First.
Lubricate engine coupling and universal joint shaft splines.	Every 50 Hours of Operation or 60 Days, Whichever Occurs First
Check engine alignment and mounting hardware.	Every 100 Hours of Operation
Change transmission fluid.	
Change Stern Drive Unit oil including gear lube monitor oil.	Every 100 Hours of Operation or 120 Days, Whichever Occurs First
Retorque gimbal ring clamping U-bolt to 50 - 55 lb. ft. (67 - 74 N·m).	Every 100 Hours of Operation or Once a Year, Whichever Occurs First
Clean, inspect and test the closed cooling system pressure cap.	
Replace coolant (using only Quicksilver Premixed Marine Engine Coolant).	Every 200 Hours of Operation or Once a Year, Whichever Occurs First
Clean heat exchangers.	
Lubricate universal joint cross bearings.	
Check and adjust idle RPM.	Once a Year
Clean aftercooler core.	Every 500 Hours of Operation
Replace drive belts.	
Inspect cooling system hoses and clamps.	**Saltwater use:** Every 50 hours of operation or 60 days, Whichever Occurs First **Freshwater use:** Every 100 hours of operation or 120 days, Whichever Occurs First
Inspect exhaust system and clamps.	
Inspect and lubricate shift/throttle cables and linkage.	
Check electrical system for loose or damaged wiring.	
Lubricate transom gimbal bearing.	
Lubricate and inspect steering system for loose, damaged or missing parts.	
Ground Wire Circuit continuity - Check components for loose connections, broken or frayed wires.	
Disassemble and inspect seawater pump.	At Least Once yearly
Clean fuel tank.	Every 1000 Hours of Operation

NOTE 1: For an explanation of Pleasure Craft usage refer to SECTION 1A - “Recommended Operation/Duty Cycle”.

Specifications

Engine

ITEM / MODEL		SPECIFICATION
Crankshaft Horsepower (Kilowatts) [1]		300 (224)
Propeller Shaft Horsepower (Kilowatts) [1]		270 (201)
Engine Type		V-8 Cylinder Diesel
Displacement		444 cu. in. (7.3 L)
Firing Order		1-2-7-3-4-5-6-8
Bore		4.11 in. (104.39 mm)
Stroke		4.18 in. (106.20 mm)
Compression Ratio		17.5:1
Valve Clearance (Intake/ Exhaust)		Non-Adjustable (Hydraulic)
Maximum Pressure Difference Between Cyl.		75 PSI (517 kPa)
Maximum Governed WOT RPM		3950 ± 50
Maximum WOT RPM		3800
Idle RPM in Forward Gear		625 ± 25
Oil Pressure:	650 RPM	10 PSI [0.7 bar (69 kPa)] Minimum
	3800 RPM	40 - 70 PSI [2.8 - 4.8 bar (276 - 482 kPa)]
Oil Temperature		250° F (121° C) Maximum
Thermostat		170° F (77° C)
Coolant Temperature		170° - 210° F (77° - 99° C)
Electrical System		12-volt Negative (–) Ground
Alternator Rating		949W, 14.6v, 65A
Recommended Battery Rating (Cold Cranking Amperage)		12v, 1500 cca or 300 Ah
Starter	Delco, Series 28MT	12v, 2.4 kW

[1] Power rated in accordance with NMMA Procedure - ISO 3046 (Technically Identical to ICOMIA 28-83).