

PERIODIC MAINTENANCE

PERIODIC MAINTENANCE SCHEDULE

Daily and periodic maintenance is important to keep the engine in good operating condition. The following is a summary of maintenance items by periodic maintenance intervals. Periodic maintenance intervals vary depending on engine application, loads, diesel fuel and engine oil used and are hard to establish definitively. The following should be treated only as a general guideline. **CAUTION! Establish a periodic maintenance plan according to the engine application and make sure you perform the required periodic maintenance at intervals indicated. Failure to follow these guidelines will impair the engine's safety and performance characteristics, shorten the engine's life and may affect the warranty coverage on your engine. See your authorized Yanmar marine dealer or distributor for assistance when checking items marked with a ●.**

○: Check or Clean ◇: Replace ●: Contact your authorized Yanmar marine dealer or distributor								
System	Item	Periodic Maintenance Interval						
		Daily	Every 50 hours or monthly whichever comes first	Every 125 hours or 6 months whichever comes first	Every 250 hours or one year whichever comes first	Every 500 hours or 2 years whichever comes first	Every 1000 hours or 4 years whichever comes first	Every 1250 hours or 5 years whichever comes first
Whole	Visual inspection of engine exterior	○						
Fuel System	Check the fuel level and refill if necessary	○						
	Drain water and sediment from fuel tank		○					
	Drain the fuel / water separator		○					
	Replace the fuel filter element		◇ Initial 50		◇			
	Check the fuel injection timing						●*	
	Check the fuel injector pressure and nozzle spray pattern				● Initial 250		●*	

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Lubricating System	Check the engine oil level	○						
	Change the engine oil		◇ Initial 50	◇				
	Replace the engine oil filter element		◇ Initial 50	◇				
	Wash the engine oil cooler							●
Marine Drive System	Check marine drive oil	○	Refer to the marine drive system operation manual.					
	Check power steering oil	○						
	Check power trim oil	○						
	Check drive oil	○						
Fresh Water Cooling System	Check coolant level	○						
	Change coolant				◇			
	Clean and check the cooling water passage							●
	Clean the cooling water system							●

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Seawater Cooling System	Check seawater outlet discharge	○ During Operation						
	Check or replace the seawater pump impeller						●	
	Check or replace the zinc anodes				◇			
	Check and clean the seawater passage							●
Piping	Clean or replace the exhaust / water mixing elbow					●		
	Check or replace fuel line and rubber hoses	○				●		
Electrical System	Check the alarm and indicators	○						
	Check the electrolyte level in the battery		○					
	Adjust the tension of the alternator V-belt or replace V-belt					○		●

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Remote Control Handle	Check and lubricate the remote control cable operation	○						
	Adjust the remote control cable				○			
Intake and Exhaust System	Wash turbo-charger blower				●			
	Clean air cleaner				○			
	Adjust the intake and exhaust valve clearance				● Initial 250		●	
	Lap the intake and exhaust valves						●	
Miscellaneous	Check and adjust the power steering oil pump belt (6LPA-STZP2 only)					○		
	Replace the timing belt							●

* For EPA requirements, see *Inspection and Maintenance of EPA Emission-Related Parts* on page 58.

Note: These procedures are considered normal maintenance and are performed at the owner's expense.

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Inspection and Maintenance of EPA Emission-Related Parts

Parts	Interval
Clean fuel injection nozzle	1500 hours
Check fuel injection nozzle (adjustment)	3000 hours
Check fuel injection pump adjustment	
Check turbocharger adjustment	
Check electronic engine control unit and its associated sensors and actuators	

Note: The inspection and maintenance items shown above to be performed at your Yanmar dealer or distributor.