

WHY DO WE MAKE FUSS ABOUT SERVICE?

Boating is not often thought of as a harsh environment: however marine engines need to be designed and built for one tough job.

Marine engines can often be used for extended periods at wide open throttle operation (up to 6000rpm on some models) in harsh salt water and sun, then sit in storage over winter for up to 6 or 7 months without any use.

That's why it's important to have your engine inspected and serviced at an authorized dealer at least once a year – even if you haven't reached 100hrs.

Sometimes, even infrequent use may also lead to starting or reliability problems that you don't need right in the middle of your valuable recreational boating time.

Regular check-ups enable your authorized dealer to attend to any tune-up, service or warranty issues to ensure you get maximum pleasure and carefree running out of your engine.

Keeping You Safe On The Water

At Mercury Marine, making quality, reliable engines is our number 1 goal, but like anything mechanical, regular maintenance is the best way to keep it functioning at it's best.

Even if your engine isn't put to the test every day, it's important that the basics are checked and serviced regularly throughout the life of the engine. Changing the oil, lubricants, fuel filters, spark plugs and anodes is all part of keeping you safe and reliable on the water.

FIRST 3 MONTHS / 20 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running

- ☐ Inspect engine and accessories for visible damage □ Drain gear housing and refill with appropriate
- ☐ Check engine alignment
- Mercury/Quicksilver Gear Lube (SD) ■ Lubricate all grease fittings and splines
- ☐ Lubricate steering cable
- Service battery and terminals
- ☐ Inspect fuel lines and connections
- □ Replace fuel filter
- □ Check all fluid levels
- ☐ Check operation of power trim (SD)
- □ Drive helts check tension
- Change engine oil and filter
- ☐ Check engine compression

Check While Running

- Water pump operation
- ☐ Throttle and gear shift attachment/operation
- ☐ Idle RPM
- Check engine timing
- Operation of steering system
- Operation of gauges and lanvard safety switch
- ☐ Check engine operating temp, oil pressure. charge rate
- □ Check audio warning
- □ Check fault codes
- □ Check ECU and sensor operation
- □ Check carb adjustment (ISE)

Important

- □ Spray engine with Mercury/Quicksilver Corrosion Guard
- ☐ Inspect corrosion control anodes/ MerCathode (ISE)

Preparation for Storage

- ☐ Extended storage procedure completed
- IB = Inboard SD = MerCruiser ISE = If So Equipped

12 MONTHS / 100 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running Inspect engine and accessories for visible damage Engine alignment check Rear engine mounts (torque to 54N.m) (SD) Gimbal ring clamping screws (torque to 74N.m) Seawater pick up pump - disassemble and inspect Drain gear housing & refill with appropriate Mercury/Quicksilver Gear Lube (SD) Transmission fluid level (IB) Lubricate all drive unit grease fittings (SD)	☐ Flame arrester crankcase ventilation hose - air filter clean/inspect ☐ Positive crankcase ventilation valve - change (ISE) ☐ Shift - throttle linkage lubricate ☐ Power steering fluid level (SD) ☐ Water separating fuel filter - replace (ISE) ☐ Check compressions - replace spark plugs if required ☐ Inspect spark plug wires, distributor cap and rotor ☐ Lubricate propeller shaft, drive shaft & shiftshaft splines (SD) ☐ Inspect corrosion control anodes/MerCathode (ISE)	□ WOT RPM (measure with workshop tachometer, verify with helm tacho) □ Power trim operation under load (SD) □ Trim tab adjustment □ Check timing □ Check for fault codes □ Check ECU and sensor operation Check After Running □ Oil, fuel or water leakage
☐ Drive unit bellows and clamps - inspect (SD)	Check While Running	☐ All fluid levels
□ Lubricate steering cable	Starter neutral safety switch operation	Propeller nut torque (SD)
☐ Ground wire circuit continuity - check for loose connections	Water pump, cooling system & thermostat operation	
■ Service battery and terminals	Check for oil, fuel, water & exhaust leaks	Important
■ All electrical connections tight and not exposed to bilge water	 Instrument operation/Instrument operation second station (ISE) 	Spray engine with Mercury/Quicksilver Corrosion Guard
☐ Inspect fuel lines and connections	☐ IdleRPM (use workshop tachometer)	Inspect corrosion control anodes
☐ Change fuel filter	Forward - Neutral - Reverse gear operation	☐ Mercury/Quicksilver MerCathode system
☐ Crankcase oil and filter change	☐ Forward - Neutral - Reverse gear operation stop/start second station (ISE)	- test output (ISE)
☐ Closed cooling coolant - replace if required	Lanyard safety switch operation	Check/reset fault codes (ISE)
 Closed cooling inspect pressure cap hoses and clamps (ISE) 	Power trim operation under load (SD)	Audio warning system operation (ISE)
☐ Heat exchanger - clean seawater section & check sacrificial anodes (ISE)	☐ Trim tab adjustment (ISE)	Preparation for Storage
☐ Inspect engine exhaust system, manifolds & elbows	Steering operation throughout range	☐ Extended storage procedure completed
□ Drive belts - check tension		Externace exercises proceeding completed

IB = Inboard SD = MerCruiser ISE = If So Equipped

24 MONTHS / 200 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running	☐ Drive belts - check tension	□ WOTRPM (measure with
 Inspect engine and accessories for visible damage 	☐ Flame arrester crankcase ventilation hose - air filter clean/inspect	workshop tachometer, verify with helm tacho)
☐ Engine alignment check	 Positive crankcase ventilation valve - change (ISE) 	Power trim operation under load (SD)
Rear engine mounts (torque to 54N.m) (SD)	☐ Shift - throttle linkage lubricate	Trim tab adjustment
☐ Gimbal ring clamping screws (torque to 74N.m)	Power steering fluid level (SD)	☐ Check timing
Seawater pick up pump - disassemble and inspect	Water separating fuel filter - replace (ISE)	Check for fault codes
☐ Drain gear housing & refill with appropriate Mercury/Quicksilver	Check compressions - replace spark plugs if required	Check ECU and sensor operation
Gear Lube (SD)	Inspect spark plug wires, distributor cap and rotor	
☐ Transmission fluid level (IB)	☐ Lubricate propeller shaft, drive shaft, and shiftshaft splines (SD)	Check After Running
☐ Lubricate all drive unit grease fittings (SD)	 Inspect corrosion control anodes/MerCathode (ISE) 	Oil, fuel or water leakage
☐ Drive unit bellows and clamps - inspect (SD)		All fluid levels
■ Lubricate steering cable	Check While Running	Propeller nut torque (SD)
☐ Ground wire circuit continuity - check for loose connections	Starter neutral safety switch operation	
□ Service battery and terminals	Water pump, cooling system & thermostat operation	Important
□ All electrical connections tight and not exposed to bilge water	Check for oil, fuel, water & exhaust leaks	Spray engine with Mercury/Quicksilver Corrosion Guard
■ Inspect fuel lines and connections	 Instrument operation/Instrument operation second station (ISE) 	Inspect corrosion control anodes
□ Change fuel filter	☐ IdleRPM (use workshop tachometer)	□ Mercury/Quicksilver MerCathode system
☐ Crankcase oil and filter change	☐ Forward - Neutral - Reverse gear operation	- test output (ISE)
☐ Closed cooling coolant - replace if required	☐ Forward - Neutral - Reverse gear operation stop/start second station (ISE)	☐ Check/reset fault codes (ISE)
☐ Closed cooling inspect pressure cap hoses and clamps (ISE)	□ Lanyard safety switch operation	Audio warning system operation (ISE)
☐ Heat exchanger - clean seawater section & check sacrificial anodes (ISE)	Power trim operation under load (SD)	Preparation for Storage
■ Inspect engine exhaust system, manifolds & elbows	☐ Trim tab adjustment (ISE)	☐ Extended storage procedure completed
	☐ Steering operation throughout range	Literated Storage procedure completed
		IB = Inboard SD = MerCruiser ISE = If So Equipped

36 MONTHS / 300 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running ☐ Inspect engine and accessories for visible damage ☐ Engine alignment check ☐ Rear engine mounts (torque to 54N.m) (SD) ☐ Gimbal ring clamping screws (torque to 74N.m) ☐ Seawater pick up pump - disassemble and inspect ☐ Drain gear housing & refill with appropriate Mercury/Quicksilver gear lube (SD) ☐ Transmission fluid level (IB)	□ Drive belts - check tension □ Flame arrester crankcase ventilation hose - air filter clean/inspect □ Positive crankcase ventilation valve - change (ISE) □ Shift - throttle linkage lubricate □ Power steering fluid level (SD) □ Water separating fuel filter - replace (ISE) □ Check compressions - replace spark plugs if required □ Inspect spark plug wires, distributor cap and rotor □ Lubricate propeller shaft, drive shaft, and shiftshaft splines (SD)	WOTRPM (measure with workshop tachometer, verify with helm tacho) Power trim operation under load (SD) Trim tab adjustment Check timing Check for fault codes Check ECU and sensor operation
□ Lubricate all drive unit grease fittings (SD)□ Drive unit bellows and clamps - inspect (SD)	☐ Inspect corrosion control anodes/MerCathode (ISE)	Oil, fuel or water leakageAll fluid levels
□ Lubricate steering cable □ Ground wire circuit continuity - check for loose connections	Check While Running ☐ Starter neutral safety switch operation	Propeller nut torque (SD)
 Service battery and terminals All electrical connections tight and not exposed to bilge water Inspect fuel lines and connections Change fuel filter Crankcase oil and filter change Closed cooling coolant - replace if required Closed cooling inspect pressure cap hoses and clamps (ISE) 	□ Water pump, cooling system & thermostat operation □ Check for oil, fuel, water & exhaust leaks □ Instrument operation/Instrument operation second station (ISE) □ IdleRPM (use workshop tachometer) □ Forward - Neutral - Reverse gear operation □ Forward - Neutral - Reverse gear operation stop/start second station (ISE) □ Lanyard safety switch operation	Important Spray engine with Mercury/Quicksilver Corrosion Guard Inspect corrosion control anodes Mercury/Quicksilver MerCathode system - test output (ISE) Check/reset fault codes (ISE) Audio warning system operation (ISE)
☐ Heat exchanger - clean seawater section & check sacrificial anodes (ISE)☐ Inspect engine exhaust system, manifolds & elbows	 □ Power trim operation under load (SD) □ Trim tab adjustment (ISE) □ Steering operation throughout range 	Preparation for Storage ☐ Extended storage procedure completed ☐ Inboard SD = MerCruiser ISE = If So Equipped
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48 MONTHS / 400 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running Inspect engine and accessories for visible damage Engine alignment check Rear engine mounts (torque to 54N.m) (SD) Gimbal ring clamping screws (torque to 74N.m) Seawater pick up pump - disassemble and inspect Drain gear housing & refill with appropriate Mercury/Quicksilver gear lube (SD) Transmission fluid level (IB) Lubricate all drive unit grease fittings (SD) Drive unit bellows and clamps - inspect (SD)	 □ Drive belts - check tension □ Flame arrester crankcase ventilation hose - air filter clean/inspect □ Positive crankcase ventilation valve - change (ISE) □ Shift - throttle linkage lubricate □ Power steering fluid level (SD) □ Water separating fuel filter - replace (ISE) □ Check compressions - replace spark plugs if required □ Inspect spark plug wires, distributor cap and rotor □ Lubricate propeller shaft, drive shaft, and shiftshaft splines (SD) □ Inspect corrosion control anodes/MerCathode (ISE) Check While Running	■ WOTRPM (measure with workshop tachometer, verify with helm tacho) ■ Power trim operation under load (SD) ■ Trim tab adjustment ■ Check timing ■ Check for fault codes ■ Check ECU and sensor operation Check After Running ■ Oil, fuel or water leakage ■ All fluid levels ■ Propeller nut torque (SD)
 □ Ground wire circuit continuity - check for loose connections □ Service battery and terminals □ All electrical connections tight and not exposed to bilge water □ Inspect fuel lines and connections □ Change fuel filter □ Crankcase oil and filter change □ Closed cooling coolant - replace if required □ Closed cooling inspect pressure cap hoses and clamps (ISE) □ Heat exchanger - clean seawater section & check sacrificial anodes (ISE) □ Inspect engine exhaust system, manifolds & elbows 	□ Starter neutral safety switch operation □ Water pump, cooling system & thermostat operation □ Check for oil, fuel, water & exhaust leaks □ Instrument operation/Instrument operation second station (ISE) □ IdleRPM (use workshop tachometer) □ Forward - Neutral - Reverse gear operation □ Forward - Neutral - Reverse gear operation stop/start second station (ISE) □ Lanyard safety switch operation □ Power trim operation under load (SD) □ Trim tab adjustment (ISE) □ Steering operation throughout range	Important

60 MONTHS / 500 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Inspect fuel lines and connections Inspect fuel filter Idle	Check Before Running Inspect engine and accessories for visible damage Engine alignment check Rear engine mounts (torque to 54N.m) (SD) Gimbal ring clamping screws (torque to 74N.m) Seawater pick up pump - disassemble and inspect Drain gear housing & refill with appropriate Mercury/Quicksilver gear lube (SD) Transmission fluid level (IB) Lubricate all drive unit grease fittings (SD) Drive unit bellows and clamps - inspect (SD)	 □ Drive belts - check tension □ Flame arrester crankcase ventilation hose - air filter clean/inspect □ Positive crankcase ventilation valve - change (ISE) □ Shift - throttle linkage lubricate □ Power steering fluid level (SD) □ Water separating fuel filter - replace (ISE) □ Check compressions - replace spark plugs if required □ Inspect spark plug wires, distributor cap and rotor □ Lubricate propeller shaft, drive shaft, and shiftshaft splines (SD) □ Inspect corrosion control anodes/MerCathode (ISE) 	WOTRPM (measure with workshop tachometer, verify with helm tacho) Power trim operation under load (SD) Trim tab adjustment Check timing Check for fault codes Check ECU and sensor operation Check After Running Oil, fuel or water leakage All fluid levels
IB = Inboard SD = MerCruiser ISE = If So Equipped	 □ Ground wire circuit continuity - check for loose connections □ Service battery and terminals □ All electrical connections tight and not exposed to bilge water □ Inspect fuel lines and connections □ Change fuel filter □ Crankcase oil and filter change □ Closed cooling coolant - replace if required □ Closed cooling inspect pressure cap hoses and clamps (ISE) □ Heat exchanger - clean seawater section & check sacrificial anodes (ISE) 	□ Starter neutral safety switch operation □ Water pump, cooling system & thermostat operation □ Check for oil, fuel, water & exhaust leaks □ Instrument operation/Instrument operation second station (ISE) □ IdleRPM (use workshop tachometer) □ Forward - Neutral - Reverse gear operation □ Forward - Neutral - Reverse gear operation stop/start second station (ISE) □ Lanyard safety switch operation □ Power trim operation under load (SD)	Important Spray engine with Mercury/Quicksilver Corrosion Guard Inspect corrosion control anodes Mercury/Quicksilver MerCathode system - test output (ISE) Check/reset fault codes (ISE) Audio warning system operation (ISE) Preparation for Storage Extended storage procedure completed

72 MONTHS / 600 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Inspect fuel lines and connections Instrument operation/Instrument operation second station (ISE) Inspect fuel lines and connections Instrument operation/Instrument operation second station (ISE) Inspect fuel lines and connections Instrument operation second station (ISE) Inspect fuel filter Instrument operation Instrument operation second station (ISE) Inspect corrosion control anodes Instrument operation Instrument operation second station (ISE) Inspect corrosion control anodes Inspect corrosion control an			
□ Lubricate all drive unit grease fittings (SD) □ Drive unit bellows and clamps - inspect (SD) □ Lubricate steering cable □ Ground wire circuit continuity - check for loose connections □ Service battery and terminals □ All electrical connections tight and not exposed to bilge water □ Inspect fuel lines and connections □ Change fuel filter □ Crankcase oil and filter change □ Closed cooling coolant - replace if required □ Closed cooling inspect pressure cap hoses and clamps (ISE) □ Heat exchanger - clean seawater section & check sacrificial anodes (ISE) □ Inspect engine exhaust system, manifolds & elbows □ Steering operation throughout range □ Cisering operation throughout range □ Closed cooling certain developed in the properation of the proper	 ☐ Inspect engine and accessories for visible damage ☐ Engine alignment check ☐ Rear engine mounts (torque to 54N.m) (SD) ☐ Gimbal ring clamping screws (torque to 74N.m) ☐ Seawater pick up pump - disassemble and inspect ☐ Drain gear housing & refill with appropriate Mercury/Quicksilver gear lube (SD) 	☐ Flame arrester crankcase ventilation hose - air filter clean/inspect ☐ Positive crankcase ventilation valve - change (ISE) ☐ Shift - throttle linkage lubricate ☐ Power steering fluid level (SD) ☐ Water separating fuel filter - replace (ISE) ☐ Check compressions - replace spark plugs if required ☐ Inspect spark plug wires, distributor cap and rotor	workshop tachometer, verify with helm tacho) Power trim operation under load (SD) Trim tab adjustment Check timing Check for fault codes Check ECU and sensor operation
Ground wire circuit continuity - check for loose connections Service battery and terminals Mater pump, cooling system & thermostat operation Check for oil, fuel, water & exhaust leaks Inspect fuel lines and connections Change fuel filter Change fuel filter Change fuel filter Change ooling coolant - replace if required Closed cooling inspect pressure cap hoses and clamps (ISE) Heat exchanger - clean seawater section & check sacrificial anodes (ISE) Inspect engine exhaust system, manifolds & elbows Service battery and terminals Water pump, cooling system & thermostat operation Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for oil, fuel, water & exhaust leaks Change Check for o	Lubricate all drive unit grease fittings (SD)	_ , , ,	_ ,
□ Inspect engine exhaust system, manifolds & elbows □ Trim tab adjustment (ISE) □ Steering operation throughout range	 □ Ground wire circuit continuity - check for loose connections □ Service battery and terminals □ All electrical connections tight and not exposed to bilge water □ Inspect fuel lines and connections □ Change fuel filter □ Crankcase oil and filter change □ Closed cooling coolant - replace if required □ Closed cooling inspect pressure cap hoses and clamps (ISE) 	□ Starter neutral safety switch operation □ Water pump, cooling system & thermostat operation □ Check for oil, fuel, water & exhaust leaks □ Instrument operation/Instrument operation second station (ISE) □ IdleRPM (use workshop tachometer) □ Forward - Neutral - Reverse gear operation □ Forward - Neutral - Reverse gear operation stop/start second station (ISE) □ Lanyard safety switch operation	Important Spray engine with Mercury/Quicksilver Corrosion Guard Inspect corrosion control anodes Mercury/Quicksilver MerCathode system test output (ISE) Check/reset fault codes (ISE)
	_ ,	☐ Trim tab adjustment (ISE)	

84 MONTHS / 700 HOURS (WHICHEVER OCCURS FIRST) SERVICE CHECKUP

Check Before Running	☐ Drive belts - check tension	□ WOTRPM (measure with
Inspect engine and accessories for visible damage	 Flame arrester crankcase ventilation hose - air filter clean/inspect 	workshop tachometer, verify with helm tacho)
☐ Engine alignment check	 Positive crankcase ventilation valve - change (ISE) 	Power trim operation under load (SD)
Rear engine mounts (torque to 54N.m) (SD)	□ Shift - throttle linkage lubricate	Trim tab adjustment
☐ Gimbal ring clamping screws (torque to 74N.m)	Power steering fluid level (SD)	Check timing
Seawater pick up pump - disassemble and inspect	Water separating fuel filter - replace (ISE)	Check for fault codes
□ Drain gear housing & refill with appropriate Mercury/Quicksilver	Check compressions - replace spark plugs if required	Check ECU and sensor operation
gear lube (SD)	Inspect spark plug wires, distributor cap and rotor	
☐ Transmission fluid level (IB)	■ Lubricate propeller shaft, drive shaft, and shiftshaft splines (SD)	Check After Running
☐ Lubricate all drive unit grease fittings (SD)	☐ Inspect corrosion control anodes/MerCathode (ISE)	Oil, fuel or water leakage
Drive unit bellows and clamps - inspect (SD)	_ ,	All fluid levels
■ Lubricate steering cable	Check While Running	Propeller nut torque (SD)
Ground wire circuit continuity - check for loose connections	Starter neutral safety switch operation	
Service battery and terminals	Water pump, cooling system & thermostat operation	Important
All electrical connections tight and not exposed to bilge water	☐ Check for oil, fuel, water & exhaust leaks	☐ Spray engine with Mercury/Quicksilver Corrosion Guard
Inspect fuel lines and connections	 Instrument operation/Instrument operation second station (ISE) 	☐ Inspect corrosion control anodes
☐ Change fuel filter	☐ IdleRPM (use workshop tachometer)	
□ Crankcase oil and filter change	Forward - Neutral - Reverse gear operation	- test output (ISE)
☐ Closed cooling coolant - replace if required	□ Forward - Neutral - Reverse gear operation stop/start second station (ISE)	Check/reset fault codes (ISE)
 Closed cooling inspect pressure cap hoses and clamps (ISE) 	■ Lanyard safety switch operation	Audio warning system operation (ISE)
☐ Heat exchanger - clean seawater section & check sacrificial anodes (ISE)	Power trim operation under load (SD)	Preparation for Storage
■ Inspect engine exhaust system, manifolds & elbows	☐ Trim tab adjustment (ISE)	☐ Extended storage procedure completed
	☐ Steering operation throughout range	Externed storage procedure completed

IB = Inboard SD = MerCruiser ISE = If So Equipped



* Anytime you are running your engine, please make sure it is in the water.

It is VERY important to winterize your engine. We recommend you start scheduling your boat's winterization by mid-October. Please keep in mind we are closed the entire week of Christmas and when those early, unexpected winter storms hit Texas, our service calendar fills up quickly!

If you cannot get your boat onto our service calendar prior to freeze, please make sure the following items are at least completed:

* To drain your engine, please refer to your owner's manual for the proper techniques.

Some people choose to buy & use an engine compartment heater which will automatically come on and heat the engine compartment. Even though, typically adequate for our climate, engine compartment heaters do not work if there are power outages.

BE SURE TO KEEP STABILIZER IN YOUR GAS.

Ethanol blended gas will start to degrade in one month. It is always best to add a stabilizer such as 'Sta-bil', 'Biobor Ethanol Buster' or 'Yamalube'—all available at local stores.