

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
Drive unit bellows and clamps - inspect (SD)	Check While Running	☐ All fluid levels
☐ Lubricate steering cable	 Starter neutral safety switch operation Water pump, cooling system & thermostat operation 	☐ Propeller nut torque (SD)
 Ground wire circuit continuity - check for loose connections Service battery and terminals 	Water pump, cooling system & thermostat operation Check for oil, fuel, water & exhaust leaks	Important
□ 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)	□ 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)	 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☐ Drive belts - check tension	☐ Trim tab adjustment (ISE) ☐ Steering operation throughout range	Preparation for Storage ☐ Extended storage procedure 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	Literaca 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 After Running
☐ 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 □ 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)	Check While Running 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	 □ Propeller nut torque (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)
 ☐ 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

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) □ Idle	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

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 Check After Running Oil, fuel or water leakage
□ Lubricate all drive unit grease fittings (SD)□ Drive unit bellows and clamps - inspect (SD)	☐ Inspect corrosion control anodes/MerCathode (ISE)	All fluid levels
☐ Lubricate steering cable	Check While Running	☐ 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) 	□ 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) □ Idle	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
	_ , , , , , , , , , , , , , , , , , , ,	IB = Inboard SD = MerCruiser ISE = If So Equipped

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)	□ 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	Lyrennen storage brocedure combieten

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