



MERCUISER SERVICE & WARRANTY BOOK

MERCURY
MerCruiser

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 Mercury/Quicksilver Gear Lube (SD)
- Check engine alignment
- 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 belts - 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 lanyard 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)
- 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
- 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 & shiftshaft splines (SD)
- Inspect corrosion control anodes/MerCathode (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)
- Idle _____ RPM (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

- 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
- All fluid levels
- 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)

Preparation for Storage

- Extended storage procedure completed

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24 MONTHS / 200 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)
- 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

- 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

- 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 _____ RPM (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

- WOT _____ RPM (measure with workshop tachometer, verify with helm tachometer)
- 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)

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)

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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)
- 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

- 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

- 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 _____ RPM (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

- 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
- All fluid levels
- 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)

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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)
- 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

- 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

- 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 _____ RPM (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

- 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
- All fluid levels
- 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)

Preparation for Storage

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60 MONTHS / 500 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)
- 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

- 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

- 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 _____ RPM (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

- 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
- All fluid levels
- 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)

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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)
- 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

- 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

- 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 _____ RPM (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

- 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
- All fluid levels
- 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)

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84 MONTHS / 700 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)
- 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

- 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

- 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 _____ RPM (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

- 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
- All fluid levels
- Propeller nut torque (SD)

Important

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- Mercury/Quicksilver MerCathode system - test output (ISE)
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