HOWE SOUND MARINE
PEAK POWER PERFORMANCE
P. O. Box 604, 60 Lions Bay Avenue, Lions Bay, BC V0N 2E0
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Repair Order
Invoice

Doc Number: 42854
Date Printed: 07/28/2026
Date Promised: 03/01/2024
Date In: 03/01/2024
Cashier: EMILY MATTHIAS
Cashier Date: 05/27/2024

Jim Girard
3560 Bluebonnet Road
North Vancouver, BC V7R 4E1

Customer Information
Cell Phone: 604-617-1408
Email: JGIRARD1408@GMAIL.COM

Summary

Approve	Decline	Unit	Job	Job Total
☑	☐	2001 Mercruiser 5.0L - PORT	Inspect port engine for low compression & loss of coolant	$14,625.91
☑	☐	2001 Mercruiser 5.0L - PORT	Additional work requested	$3,198.42
☑	☐	2001 Mercruiser 5.0L - STBD	Perform compression test on starboard engine & check ignition components	$711.03

Job Subtotal:	**$18,535.36**
Misc:	**$275.25**
Job Parts Subtotal:	**$8,273.94**
Job Labor Subtotal:	**$10,201.42**
Job Sublet Subtotal:	**$60.00**
PST - 7.00%:	**$1,316.74**
GST - 5.00%:	**$940.53**
Total:	**$21,067.88**
Less Deposits:	**$0.00**
Visa/MC:	**($21,067.88)**
Total Due:	**$0.00**

Thank You For Your Business.

Payment in full upon completion of repairs.
VISA, MASTERCARD, CHEQUE & E-TRANSFER ACCEPTED.
A 2% per month financing charge will apply to overdue accounts.
GST #89227-3681RT

The sale of Electrical Components is Final.

The obligation of Howe Sound Marine Ltd. is limited to the performance of work actually listed and charged for on this work order invoice. An express mechanic's lien is acknowledged on watercraft and related parts to secure the amounts of repairs thereof. Howe Sound Marine will not be held responsible for loss or damage to watercraft or articles left in the watercraft in case of fire, theft, accident or any cause beyond our control.

Signature: _____

Detail

Unit **2001 Mercruiser 5.0L - PORT** **Color:** **Keyboard:**

VIN/HIN/Serial No:0L685593 **Plate:**BC7523806 **Odom/Hrs In:**747 **Out:**747

Inspect port engine for low compression & loss of coolant

Description: Inspection:
Found low compression on both sides of engine
Pressure test cooling system & found pressure dropping
No external leaks found indicating internal cooling system leak
Engine removal required to disassemble engine to inspect
Disconnect wiring, control cables, fuel hose, exhaust & hoses
Remove stern drive
Remove engine from boat
Disassemble engine to inspect
Found exhaust manifold on starboard side leaking water into #3 & #5 cylinders
Remove cylinder heads
Found intake & exhaust valves on both cylinder heads leaking
Found damaged cylinder head gasket on port side
Send cylinder heads to machine shop for further testing
Found port cylinder head cracked & starboard cylinder head too corroded to be reused
Two new cylinder heads required
New exhaust manifolds will also be required

Repair:
Install two new cylinder heads
Reinstall intake manifold
Reconnect wiring harness
Install new exhaust manifolds & mixing elbows
Found water pump assembly leaking
Inspect water pump & found pump corroded
Remove water pump & install new new water pump assembly
Install new fuel filters & oil filter
Refill crank case with engine oil
Reinstall heat exchanger & refill cooling system with anti-freeze
Test run engine prior to reinstalling to check for leaks - OK
Reinstall engine in boat
Reconnect wiring, control cables, fuel supply & exhaust system
Reinstall stern drive
Test run engine & sea trial - OK

Parts

Part #	Qty	Description	Price	Discount	Total
938-8M0087885	2.00	Cylinder Head	$1,422.40	$0.00	$2,844.80
27-75611001	2.00	Valve cover gasket	$98.42	$0.00	$196.84
27-807473A1	1.00	Intake Gasket	$110.38	$0.00	$110.38
860246A15	2.00	Exhaust Manifold Kit	$498.69	$0.00	$997.38
807988A03	2.00	Elbow	$460.87	$0.00	$921.74
27-863724	2.00	Gasket	$26.46	$0.00	$52.92
TR5	8.00	Spark Plug	$6.40	$0.00	$51.20
35-802893T	1.00	Merc Water Separator Fuel Filter	$21.00	$0.00	$21.00
35-866340K01	1.00	Mercury GM-V 8 Short Oil Filter	$19.00	$0.00	$19.00
92-8M0078639	4.00	25W40 Mercury 4 Cycle Engine Oil (1L)	$16.90	$0.00	$67.60
13632	1.00	Hose Clamps #12	$7.47	$0.00	$7.47
311399	1.00	Ring Terminal #10 16-14	$0.86	$0.00	$0.86
46-807151A9	1.00	Sea water pump assembly	$888.12	$0.00	$888.12
8M6500024	1.00	Pulley	$73.85	$0.00	$73.85
805759T3	1.00	MerC V8 Distributor Cap and Rotor Kit H.E.I.	$78.77	$0.00	$78.77
10-90926	4.00	distributor cap screw	$1.48	$0.00	$5.92
35-802893T	1.00	Merc Water Separator Fuel Filter	$21.00	$0.00	$21.00
89-8M0185144	1.00	Solenoid	$81.82	$0.00	$81.82
16755Q1	1.00	Bravo drive gasket kit	$17.50	$0.00	$17.50
71621	2.00	Anti-Freeze- Prestone (HA1342B)	$38.38	$0.00	$76.76
13699	4.00	Hose Clamps #72	$13.28	$0.00	$53.12
				Parts Subtotal	**$6,588.05**

Labor

Description	Technician	Hours	Total
Remove engine to inspect	NATHAN BACKMAN-CHOO	7.92	$1,488.96
Repair engine & reinstall	NATHAN BACKMAN-CHOO	38.17	$6,488.90
		Labor Subtotal	**$7,977.86**

Sublet

Description	Total
Engine Lift Charges	$60.00
Sublet Subtotal	**$60.00**

Job Subtotal **$14,625.91**

Approve: ☑ **Decline:** ☐

Additional work requested

Description: Replace stern drive anodes for port & starboard stern drives
Fabricate mounting plate for rear bilge pump
Install new mid bilge pump & wiring
Install new stern bilge pump
Test both bilge pumps - OK
Fabricate plate for new labels for switches
Label switches
Tighten ignition switches & test - OK
Inspect house batteries & found batteries not holding a charge
Remove both house batteries
Install 2 new golf cart batteries
Inspect battery wiring system
Wire bilge pumps to house battery positive terminal with inline fuses
Install battery switch to connect house batteries to starting battery for emergency starting
Test operation - OK
Test run engines - OK

Parts

Part #	Qty	Description	Price	Discount	Total
806190A	4.00	Merc Trim Ram Aluminum Anode	$17.66	$0.00	$70.64
821630C2A	2.00	MerCruiser Bravo Cav Plate Alum Anode	$24.70	$0.00	$49.40
76214-5A	2.00	MerCruiser Flat aluminum anode	$13.50	$0.00	$27.00
R02AL	2.00	Trim Tab Aluminum Anode	$10.50	$0.00	$21.00
16004	1.00	Johnson Bilge Pump 1600 GPH	$197.04	$0.00	$197.04
LP900S	1.00	Rule Bilge Pump 900GPH Auto	$164.65	$0.00	$164.65
13624	3.00	Hose Clamps #8	$7.21	$0.00	$21.63
MEP8830	1.00	3/4" Barb to 3/4" Barb hose adapter	$6.76	$0.00	$6.76
403892	1.00	1" S/S Cushion Clamp	$3.26	$0.00	$3.26
MPS905008	1.00	1"H to 1"P adapter Marelon	$12.62	$0.00	$12.62
88-1490346BX	3.00	Bilge Pump/ Livewell Hose 3/4"	$4.77	$0.00	$14.31
Miscellaneous Fasteners	1.00	Fasteners, heat shrink, connectors, etc	$22.58	$0.00	$22.58
US2200	2.00	Golf Cart Battery 6Volt 232CCA	$301.55	$0.00	$603.10
ANC117502	8.00	2/0 GA Red battery cable	$13.51	$0.00	$108.08
083345E (PICO)	8.00	3/4" Heat Shrink Red	$0.86	$0.00	$6.88
ANC115530FT	3.00	1 GA Red battery cable	$8.12	$0.00	$24.36
242295	4.00	Heavy duty lugs 5/16" 2/0AWG	$5.40	$0.00	$21.60
242276	2.00	Heavy Duty Lugs 3/8" 1AWG	$3.86	$0.00	$7.72
242275	2.00	Heavy Duty Lugs 5/16" 1AWG	$3.56	$0.00	$7.12
BSS6011	1.00	Mini Battery switch dual circuit	$81.51	$0.00	$81.51
			Parts Subtotal		**$1,471.26**

Labor

Description	Technician	Hours	Total
Install new stern drive anodes	GRAHAM GUNN	2	$376.00
Install new mid & rear bilge pumps	NATHAN BACKMAN-CHOO	4.42	$751.40

Description	Technician	Hours	Total
Label switches	Keith Maynard	0.75	$127.50
Tighten ignition switches	NATHAN BACKMAN-CHOO	0.17	$31.96
Install new golf cart batteries	NATHAN BACKMAN-CHOO	1	$170.00
Install new wiring for battery switch	NATHAN BACKMAN-CHOO	1.59	$270.30
		Labor Subtotal	**$1,727.16**
		Job Subtotal	**$3,198.42**
		Approve: ☑	**Decline:** ☐

Unit

2001 Mercruiser 5.0L - STBD **Color:** **Keyboard:**

VIN/HIN/Serial No:0L635605 **Plate:**BC7523806 **Odom/Hrs In:**762 **Out:**762

Perform compression test on starboard engine & check ignition components

Description:
Sea trial boat & found starboard engine running at lower R.P.M than repaired port engine
Attempt to clear speedometer - unable to clear speedometer due to restriction in tube
Perform compression test on starboard engine
Cylinder #1 - 170psi, Cyl #2 - 170psi, Cyl #3 - 170psi, Cyl #4 - 180psi, Cyl #5 - 170psi, Cyl #6 - 170psi, Cyl #7 - 165psi, Cyl #8 - 175psi
Install new spark plugs
Install new distributor cap
Install new fuel filter
Install new heat exchanger anode
Top up gear oil reservoir
Test run engine after servicing - OK

Parts

Part #	Qty	Description	Price	Discount	Total
TR5	8.00	Spark Plug	$6.40	$0.00	$51.20
35-802893T	1.00	Merc Water Separator Fuel Filter	$21.00	$0.00	$21.00
805759T1	1.00	MerCruiser V8 Distributor Cap Asy	$97.43	$0.00	$97.43
E1	1.00	Pencil Zinc	$12.20	$0.00	$12.20
92-858064KC1	1.00	HP Gear Lube (1L)	$32.80	$0.00	$32.80
			Parts Subtotal		**$214.63**

Labor

Description	Technician	Hours	Total
Perform compression test on starboard engine	BRYSON EDSTRAND	1.5	$255.00
Install new tune up components	BRYSON EDSTRAND	1.42	$241.40
		Labor Subtotal	**$496.40**
		Job Subtotal	**$711.03**
		Approve: ☑	**Decline:** ☐

All Jobs Subtotal:	**$18,535.36**
Shop Supplies:	**$35.00**
Environmental Disposal:	**$11.80**
Freight:	**$28.45**
HSM Daily Storage:	**$200.00**
PST - 7.00%:	**$1,316.74**
GST - 5.00%:	**$940.53**
Total:	**$21,067.88**
Less Deposits:	**$0.00**
Visa/MC:	**($21,067.88)**
Total Due:	**$0.00**