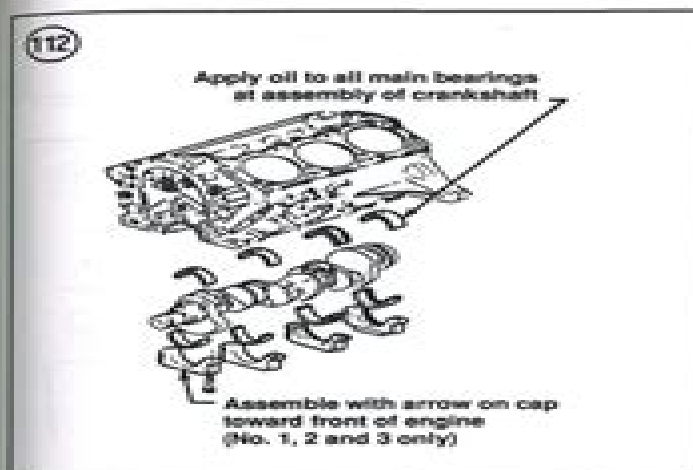


8. Remove the oil pan and oil pump as described in this chapter.
9. Remove the harmonic balancer, front cover and timing chain as described in this chapter.
10. Remove the spark plugs to permit easy rotation of the crankshaft.
11. Measure crankshaft end play as described in this chapter.



12. Remove the rear crankshaft oil seal and retainer as described in this chapter.

13. Rotate the crankshaft to position one connecting rod at the bottom of its stroke.

14. Remove the connecting rod bearing cap and bearing. Move the piston/rod assembly away from the crankshaft.

15. Repeat Step 13 and Step 14 for each remaining piston/rod assembly.

16. Check the caps for identification numbers or marks. If none are visible, clean the caps with a wire brush. If marks still cannot be seen, make your own with quick-drying paint.

17. Unbolt and remove the main bearing caps and bearing inserts. See Figure 113, typical.

NOTE

If the caps are difficult to remove, lift the bolts partway out, then pry them from side to side. See Figure 114.

18. Carefully lift the crankshaft from the engine block and place it on a clean workbench.

19. Remove the bearing inserts from the block. Place the bearing caps and inserts in order on a clean workbench.



Boat Engine Repair Manual

(Seloc) Seloc



Boat Engine Repair Manual:

Outboard Motors Maintenance and Repair Manual Jean-Luc Pallas,2006-12-13 The aim of this book with its superb step by step photographs and detailed diagrams is to enable every owner to understand the workings of an outboard motor 2 or 4 stroke and be able to fix it with relative ease It includes an explanation of the different parts that make up the engine and how they interact how fuel is transformed into propulsion regular maintenance and repair worksheets to help even the most mechanically ignorant to work on their outboard engine with confidence the most common causes of breakdown troubleshooting tables to allow you to diagnose and fix the most common engine problems and advice on how to winterize your outboard in one short afternoon After reading this book your outboard will no longer be a potential bother to you but an ally for better boating

AC Maintenance & Repair Manual for Outboard Motors Jean Luc Pallas,2013-08-10 The aim of this book with its detailed step by step colour photographs and diagrams is to enable every owner to fix their outboard motor with ease Troubleshooting tables help diagnose potential problems and there is advice on regular maintenance and winterising and repair Jean Luc Pallas s enthusiasm for passing on his knowledge as well as his clear explanations precise advice and step by step instructions make this a unique book

Volvo Penta (Seloc) Seloc,2008 This manual covers the topics that a factory service manual designed for factory trained mechanics and a manufacturer owner s manual designed more by lawyers than boat owners these days covers It will take you through the basics of maintaining and repairing your motor step by step to help you understand what the factory trained mechanics already know by heart Page 1 2

Marine Diesel Engines Jean-Luc Pallas,2006 By means of superb photos and diagrams Pallas explains in simple terms the operation of a diesel engine and shows how to maintain and repair it should it break down This book will be an invaluable reference for when things go wrong

Seloc Yamaha Outboards Seloc,2004 1701 Covers all 2 250 hp 1 4 cylinder V4 and V6 models 2 stroke and 4 stroke models includes jet drives

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The Fiberglass Boat Repair Manual Allan H. Vaitses,1988-10-22 Tells how to work with fiberglass and demonstrates repair techniques for leaks fractures holes delaminations core problems large holes and keels

Service and Repair Manual for Atomic-4 Marine Engines Robert Thomas Staton,1982

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