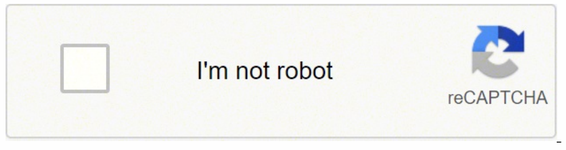

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Mercruiser service manuals pdf

CC0/ davidpheat/Pixabay According to data collected by the AAA, the average motorist pays 60.8 cents per mile, or $9,122 per year, when they buy a new car. Small sedans, SUVs, hybrids and electric vehicles are the cheapest to run while pickup trucks cost way more per mile than any other car with a combined annual cost of $10,054. Those running costs for new cars don’t have to take into consideration repairs or wear and tear because new cars don’t normally need replacement tires or expensive servicing. You have the luxury of being the only person damaging the car when it’s new. Older cars could have been mistreated by drivers who haven’t carried out basic maintenance. Replacement Service ManualsThe best price for anything is zero but when it comes to information can you be sure that the sort of info that’s available free of charge is worth using? You don’t want to use the wrong oil or coolant because some well-meaning fool gave you the wrong information online, do you? Thankfully, you’ll find copies of service manuals online through sites like Amazon but they won’t be free. Whether you buy the full owner’s manual, the service book or get the service manual as a DVD, you’ll have to pay for it and wait for it to be shipped to you. PDF ManualsA PDF of a service manual is one of the best ways of getting a service manual for free. You can view it on your laptop, your tablet or your smartphone so it’s just as portable as the paper book that came with the car. You might find additional hints and tips at the site where you downloaded the manual and there may be a chatroom there too so you can ask the questions you’re bound to come up with when you start your repairs. HondaHonda remains the second most popular Japanese brand in the country. In 2017, they sold 1.4 million cars which represented an increase of less than one percent. Although they’re the second Japanese brand, they’re the fifth biggest selling brand in America at this time. Not bad for a firm that sold just 4,000 cars when it first entered the US market in 1970. Very few of the 4,000 cars from 1970 are still on the road but vehicles from later decades when Honda began to sell in big volumes are still on the roads so Honda owners will be pleased to read that there are lots of sites offering free repair manuals for their car. KawasakiAround 500,000 motorbikes are purchased new each year, mainly to residents of California where 830,000 bikes are registered at this time. Harley-Davidson remains the biggest selling brand in America with Ducati, BMW, Honda and Yamaha close behind with more technically advanced motorbikes. While Kawasaki isn’t one of the biggest brands in the States, they are one of the best thanks to bikes like the Ninja H2, and ATVs like the Brute Force. Kawasaki owners are another group who won’t have too much trouble finding repair manuals online for their machines. Free AdviceNot everything you read online is worth accepting so make sure you download version of official car manuals before you start ripping your car apart. Don’t make the mistake of using one source of information either as you will find that a combination of ideas is best when you’re trying to resolve a problem. That means that your friend or neighbor’s advice is worth considering and you can take your car to a garage for a free appraisal too. Videos OnlineRather than a manual, why not learn by watching someone working on the car you own? You won’t be able to hang around your local garage while the mechanic does his thing but you can check out mechanics at work through videos posted online. These are often the best ways of understanding how to get a job done because the person working on the car will tell you what issues come up and how to avoid them. Seeing how something is done gives you more confidence to do it. MORE FROM LIFE123.COM SERVICE MANUALNumber 14Sterndrive Units Alpha One Generation IIMAIN MENUPrinted in U.S.A.2001, Mercury Marine90-818177-3 APRIL 2001MerCruiser #14 Sterndrive Units90-818177-3MerCruiser #14 Sterndrive Units90-818177-390-iSERVICE MANUAL NUMBER 14GENERAL INFORMATIONIMPORTANT INFORMATIONSection 1A - General Information1ATable of ContentsHow To Use This Manual . . . . . Page Numbering . . . . . Introduction . . . . . Special Product Information . . . . . Directional References . . . . . Propeller Rotation . . . . . Serial Number Locations and Engine Designation Decal . . . . . Sterndrive Unit Serial Number Location . . . . . 1A-2 1A-2 1A-3 1A-3 1A-3 1A-4 1A-4 1A-5 Decal Application . . . . . Decal Removal . . . . . Instructions for Wet Application . . . Painting Procedures . . . . . Cleaning & Painting Aluminum Propellers & Gear Housings . . . . . 1A-5 1A-5 1A-5 1A-7 1A-790-818177--3 APRIL 2001INDEXPage 1A-1GENERAL INFORMATIONSERVICE MANUAL NUMBER 14How To Use This ManualThis Manual is divided into sections which represent major components and systems. Some sections are further divided into parts which more fully describe the component. Sections and parts are listed at the front of this manual.Page NumberingTwo number groups appear at the bottom of each page. Following is an example and description.ab cdefga - Section Number b - Section Part c - Page Number d - Manual Part Number e - Revision Number f - Month Printed g - Year PrintedPage 1A-2INDEX90-818177--3 APRIL 2001SERVICE MANUAL NUMBER 14GENERAL INFORMATIONIntroductionThis comprehensive overhaul and repair manual is designed as a service guide for the Mercury MerCruiser models previously listed. It provides specific information, including procedures for disassembly, inspection, assembly and adjustment, to enable dealers and service mechanics to repair these products. Before attempting repairs, it is suggested that the procedure be read to gain knowledge of the methods and tools used and the cautions and warnings required for safety.Special Product InformationDuring production of these models, special product improvements and changes have been made to increase product reliability and performance. Such changes to a sterndrive assembly component(s) are covered in the Special Information portion of the appropriate sterndrive assembly section. (Refer to the section Index.) Serial number breaks are provided, where applicable, for ease of identification.Directional ReferencesFront of boat is bow; rear is stern. Starboard side is right side; port side is left side. In this service manual, all directional references are given as they appear when viewing boat from stern, looking toward bow.90-818177--3 APRIL 2001INDEXPage 1A-3GENERAL INFORMATIONSERVICE MANUAL NUMBER 14Propeller RotationPropeller rotation for sterndrive can be right hand or left hand rotation as viewed from the aft end of the propeller.Right Hand RotationLeft Hand RotationSerial Number Locations and Engine Designation Decalab22031a - Transom Assembly Serial Number b - Engine Designation DecalPage 1A-4INDEX90-818177--3 APRIL 2001SERVICE MANUAL NUMBER 14GENERAL INFORMATIONSterndrive Unit Serial Number Locationba22026Sterndrive Unit Serial Number Location - Port Decal (Also Located Under Decal On Housing) a - Sterndrive Unit Serial Number b - Sterndrive Unit Gear RatioDecal ApplicationDecal Removal1. Mark decal location before removal to assure proper alignment of new decal. 2. Carefully soften decal and decal adhesive with a heat gun or heat blower while removing old decal. 3. Clean decal contact area with a 1:1 mixture of isopropyl alcohol and water. 4. Thoroughly dry decal contact area and check for a completely cleaned surface.Instructions for Wet ApplicationNOTE: The following decal installation instructions are provided for a Wet installation. All decals should be applied wet. TOOLS REQUIRED 1. Plastic Squeegee* 2. Stick Pin 3. Dish Washing Liquid/Detergent without ammonia** Joy and Drift are compatible for this process. ** Automotive Body Filler Squeegee ** Do not use a soap that contains petroleum based solvents.90-818177--3 APRIL 2001INDEXPage 1A-5GENERAL INFORMATIONSERVICE MANUAL NUMBER 14SERVICE TIP: Placement of decals using the Wet application will allow time to position decal. Read entire installation instructions on this technique before proceeding. TEMPERATURE IMPORTANT: Installation of vinyl decals should not be attempted while in direct sunlight. Air and surface temperature should be between 60F (15C) and 100F (38C) for best application. SURFACE PREPARATION IMPORTANT: Do not use a soap or any petroleum based solvents to clean application surface. Clean entire application surface with mild dish washing liquid and water. Rinse surface thoroughly with clean water. DECAL APPLICATION 1. Mix 1/2 ounce (16 ml) of dish washing liquid in one gallon (4 l) of cool water to use as wetting solution. NOTE: Leave protective masking, if present, on the face of decal until final steps of decal installation. This will ensure that the vinyl decal keeps its shape during installation. 2. Place the decal face down on a clean work surface and remove the paper backing from adhesive side of decal. 3. Using a spray bottle, flood the entire adhesive side of the decal with the pre-mixed wetting solution. 4. Flood area where the decal will be positioned with wetting solution. 5. Position pre-wetted decal on wetted surface and slide into position. 6. Starting at the center of the decal, lightly squeegee out the air bubbles and wetting solution with overlapping strokes to the outer edge of the decal. Continue going over the decal surface until all wrinkles are gone and adhesive bonds to the cowl surface. 7. Wipe decal surface with soft paper towel or cloth. 8. Wait 10 - 15 minutes. 9. Starting at one corner, carefully and slowly pull the masking off the decal surface at a 180 angle. NOTE: To remove any remaining bubbles, pierce the decal at one end of the bubble with stick pin and press out the entrapped air or wetting solution with your thumb (moving toward the puncture).Page 1A-6INDEX90-818177--3 APRIL 2001SERVICE MANUAL NUMBER 14GENERAL INFORMATIONPainting ProceduresCleaning & Painting Aluminum Propellers & Gear HousingsWARNINGAvoid serious injury from flying debris. Avoid serious injury from airborne particles. Use eye and breathing protection with proper ventilation. PROPELLERS 1. Sand the entire area to be painted with 3M 120 Regalite Polycut or coarse Scotch-Brite, disc or belts. 2. Feather edges of all broken paint edges. Try not to sand through the primer. 3. Clean the surface to be painted using PPG Industries DX330 Wax and Grease Remover or equivalent (Xylene or M.E.K.). 4. If bare metal has been exposed, use Quicksilvers Light Gray Primer. 5. Allow a minimum of 1 hour dry time and no more than 1 week before applying the finish coat. 6. Apply the finish coat using Quicksilvers EDP Propeller Black. GEAR HOUSINGS The following procedure should be used in refinishing gear housings. This procedure will provide the most durable paint system available in the field. The materials recommended are of high quality and approximate marine requirements. The following procedure will provide a repaint job that compares with a properly applied factory paint finish. It is recommended that the listed materials be purchased from a local Ditzler Automotive Finish Supply Outlet. The minimum package quantity of each material shown is sufficient to refinish several gear housings. Procedure: 1. Wash gear housing with a muriatic acid base cleaner to remove any type of marine growth, and rinse with water, if necessary. 2. Wash gear housing with soap and water, then rinse. 3. Sand blistered area with 3M 180 grit sandpaper or P180 Gold Film Disc to remove paint blisters only. Feather edge all broken paint edges. 4. Clean gear housing thoroughly with (DX-330) wax and grease remover. 5. Spot repair surfaces where bare metal is exposed with (DX-503) alodine treatment. IMPORTANT: Do not use any type of aerosol spray paints as the paint will not properly adhere to the surface nor will the coating be sufficiently thick to resist future paint blistering. 6. Mix epoxy chromate primer (DP-40) with equal part catalyst (DP-401) per manufacturers instructions, allowing proper induction period for permeation of the epoxy primer and catalyst. IMPORTANT: Do not paint sacrificial zinc trim tab or zinc anode. 7. Cut out a cardboard plug for trim pump pocket to keep paint off of mating surface to maintain good continuity circuitry between trim tab and gear housing.90-818177--3 APRIL 2001INDEXPage 1A-7GENERAL INFORMATIONSERVICE MANUAL NUMBER 148. Allow a minimum of one hour drying time and no more than one week before top coating assemblies. 9. Use Ditzler Urethane DU9000 for Mercury Black and DU33414M for Sea Ray White. Catalyze the colors with Ditzler DU5 catalyst mixed 1:1 ratio. Reduce with solvents per Ditzler label.CAUTIONBe sure to comply with instructions on the

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