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suggested sequence of tasks to perform during the tune-up service work. The tasks are merely listed here. Generally procedures are given in subsequent sections of this chapter. For more detailed instructions, see the referenced chapter. 1- Perform a compression check of each cylinder. See Chapter 3. 2- Inspect the spark plugs to determine their condition. Test for adequate spark at the plug. See Chapter 5. 3- Start the engine in a body of water and check the water flow through the engine. See Chapter 8. 4- Check the gear oil in the lower unit. See Chapter 8. A boat and lower unit covered with marine growth. Such a condition is a serious hinderance to satisfactory performance. 29. 5- Check the carburetor adjustments and the need for an overhaul. See Chapter 4. 6- Check the fuel pump for adequate performance and delivery. See Chapter 4. 7- Make a general inspection of the ignition system. See Chapter 5. 8- Test the starter motor and the solenoid. See Chapter 6. 9- Check the internal wiring. 10- Check the synchronization. See Chapter 5. 2-3 COMPRESSION CHECK A compression check is extremely important, because an engine with low or uneven compression between cylinders CAN NOT be tuned to operate satisfactorily. Therefore, it is essential that any compression problem be corrected before proceeding with the tune-up procedure. See Chapter 3. If the powerhead shows any indication of overheating, such as discolored or scorched paint, especially in the area of the top (No. 1) cylinder, inspect the cylinders visually thru the transfer ports for possible scoring. A more thorough inspection can be made if the head is removed. It is possible for a cylinder with satisfactory compression to be scored slightly. Also, check the water pump. The overheating condition may be caused by a faulty water pump. Removing the spark plugs for inspection. Worn plugs are one of the major contributing factors to poor engine performance. COMPRESSION CHECK 2-3 An overheating condition may also be caused by running the engine out of the water. For unknown reasons, many operators have formed a bad habit of running a small engine without the lower unit being submerged. Such a practice will result in an overheated condition in a matter of seconds. It is interesting to note, the same operator would never operate or allow anyone else to run a large horsepower engine without water circulating through the lower unit for cooling. Bear-in-mind, the laws governing operation and damage to a large unit ALL apply equally as well to the small engine. Checking Compression Remove the spark plug wires. ALWAYS grasp the molded cap and pull it loose with a twisting motion to prevent damage to the connection. Remove the spark plugs and keep them in ORDER by cylinder for evaluation later. Ground the spark plug leads to the engine to render the ignition system inoperative while performing the compression check. Insert a compression gauge into the No. 1, top, spark plug opening. Crank the engine with the starter, or pull on the starter cord, thru at least 4 complete strokes with the throttle at the wide-open position, or until the highest possible reading is observed on the gauge. Record the reading. Repeat the test and record the compression for each cylinder. A variation in compression check should be taken in each cylinder before spending time and money on tune-up work. Without adequate compression, efforts in other areas to regain engine performance will be wasted. 30. 2-4 TUNING Damaged spark plugs. Notice the broken electrode on the left plug. The broken part must be found and removed before returning the engine to service. between cylinders is far more important than the actual readings. A variation of more than 5 psi between cylinders indicates the lower compression cylinder may be defective. The problem may be worn, broken, or sticking piston rings, scored pistons or worn cylinders. These problems may only be determined after the head has been removed. Removing the head on an outboard engine is not that big a deal and may save many hours of frustration and the cost of purchasing unnecessary parts to correct a faulty condition. 2-4 SPARK PLUG INSPECTION Inspect each spark plug for badly worn electrodes, glazed, broken, blistered, or lead fouled insulators. Replace all of the plugs, if one shows signs of excessive wear. Make an evaluation of the cylinder performance by comparing the spark condition with those shown in Chapter 5. Check each spark plug to be sure they are all of the same manufacturer and have the same heat range rating. FOULED ELECTRODES A foul spark plug. The condition of this plug indicates problems in the cylinder that should be corrected. Inspect the threads in the spark plug opening of the head and clean the threads before installing the plug. If the threads are damaged, the head should be removed and a Hell-coil insert installed. If an attempt is made to drill out the opening with the head in place, some of the filings may fall into the cylinder and cause damage to the cylinder wall during operation. Because the head is made of aluminum, the filings cannot be removed with a magnet. When purchasing new spark plugs, ALWAYS ask the marine dealer if there has been a spark plug change for the engine being serviced. Crank the engine through several revolutions to blowout any material which might have become dislodged during cleaning. Install the spark plugs and tighten them to a torque value of 17 ft-lbs. ALWAYS use a new gasket and wipe the seats in the block clean. The gasket must be fully compressed on clean seats to complete the heat transfer process and to provide a gas tight seal in the cylinder. If the torque value is too high, the heat will dissipate too rapidly. Conversely, if the torque value is too low, heat will not dissipate fast enough. 2-5 IGNITION SYSTEM Only one ignition system, a flywheel-magneto, is used on outboard engines covered in this manual. If the engine performance is less than expected, and the ignition is diagnosed as the problem area, refer to Chapter 5 for detailed service procedures. To properly synchronize the ignition system with the fuel system, see Chapter 5. Today, numerous type spark plugs are available for service. ALWAYS check with your local marine dealer to be sure you are purchasing the proper plugs for the engine being serviced.





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