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> Pwc Engine Mercury ADI Switch Box 6 CDM Module Test Kit WSM 511-7509K Instruction Manual

## Pwc Engine 511-7509K

# Pwc Engine Mercury ADI Switch Box 6 CDM Module Test Kit WSM 511-7509K Instruction Manual

Model: 511-7509K

## INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, maintenance, and troubleshooting of the Pwc Engine Mercury ADI Switch Box 6 CDM Module Test Kit WSM 511-7509K. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

The kit includes six 114-7509 CDM Modules and one 511-5207A 1 CDM Test Harness. This kit is designed to replace OEM part numbers 8222779A 2, 8222779A 5, 8222779A10, 8222779A12, 8222779A13, 8222779A14, 827509A6, and 827509A12.

## PRODUCT OVERVIEW



**Figure 1:** Pwc Engine Mercury ADI Switch Box 6 CDM Module Test Kit. This image displays the complete kit, including the switch box and multiple CDM modules, as well as the test harness.

The Mercury ADI Switch Box 6 CDM Module Test Kit is engineered for high performance and reliability, meeting or exceeding OEM standards. It is crucial for maintaining the ignition system of compatible Mercury engines.

## SAFETY INFORMATION

### WARNING:

- Always disconnect the battery before performing any electrical work on your engine.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the engine is cool before handling components to avoid burns.
- Consult a qualified marine technician if you are unsure about any installation or testing procedures.

## SETUP AND INSTALLATION

This section outlines the general steps for setting up and installing the CDM modules and test harness. Specific engine models may require additional steps or tools.

## Required Tools:

- Basic hand tools (wrenches, screwdrivers)
- Multimeter (for testing)
- Service manual for your specific Mercury engine model

## Installation Steps:

1. **Preparation:** Ensure the engine is off and the battery is disconnected. Locate the existing CDM modules and switch box on your engine.
2. **Removal of Old Components:** Carefully disconnect all wiring from the old CDM modules and switch box. Note the position of each wire for correct reinstallation. Remove mounting bolts and detach the old components.
3. **Installation of New Switch Box:** Mount the new Pwc Engine switch box in the same location as the old one, securing it with appropriate fasteners.
4. **Installation of New CDM Modules:** Install the new 114-7509 CDM Modules into their respective positions. Ensure they are securely fastened.
5. **Wiring Connections:** Reconnect all wiring to the new switch box and CDM modules. Refer to your engine's service manual for precise wiring diagrams. Double-check all connections for tightness and correct placement.
6. **Final Checks:** Before reconnecting the battery, visually inspect all connections and ensure no tools or debris are left in the engine compartment.

## OPERATING AND TESTING

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This section describes how to use the 511-5207A 1 CDM Test Harness to diagnose issues with CDM modules.

### CDM Module Testing Procedure:

1. **Connect Test Harness:** With the engine off and battery disconnected, connect the 511-5207A 1 CDM Test Harness to the CDM module you wish to test. Follow the instructions provided with the test harness for specific connection points.
2. **Reconnect Battery:** Reconnect the engine battery.
3. **Perform Tests:** Follow the testing procedures outlined in your engine's service manual or the test harness instructions. This typically involves checking for spark, resistance, or voltage readings at various points.
4. **Interpret Results:** Compare your readings to the specifications provided in your engine's service manual. Deviations may indicate a faulty CDM module.
5. **Disconnect:** After testing, disconnect the battery, remove the test harness, and reconnect all original wiring.

*Note:* Always refer to your specific engine's service manual for detailed testing parameters and safety precautions.

## MAINTENANCE

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The Pwc Engine Mercury ADI Switch Box and CDM Modules are designed for durability and require minimal routine maintenance. However, periodic inspection is recommended.

- **Visual Inspection:** Regularly inspect all wiring connections for corrosion, fraying, or loose terminals. Ensure the switch box and CDM modules are securely mounted.
- **Cleaning:** Keep the components clean and free of dirt, oil, and moisture. Use a clean, dry cloth. Avoid using harsh chemicals that could damage the housing or wiring.
- **Environmental Protection:** Ensure the engine compartment is well-ventilated and protected from excessive

moisture and extreme temperatures.

## TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, consult a professional marine technician.

Symptom	Possible Cause	Solution
No spark or weak spark	Faulty CDM module, loose wiring, faulty switch box, incorrect timing.	Test individual CDM modules using the test harness. Check all wiring connections. Inspect switch box for damage. Consult engine service manual for timing adjustments.
Engine misfires or runs rough	One or more CDM modules failing, spark plug issues, fuel delivery problems.	Test each CDM module. Inspect and replace spark plugs if necessary. Check fuel system.
Engine does not start	No spark, no fuel, low compression, battery issues.	Verify spark at all cylinders. Check fuel supply. Ensure battery is fully charged and connections are clean.

## SPECIFICATIONS

- **Model:** PWC 511-7509K
- **Kit Contents:** 6 x 114-7509 CDM Modules, 1 x 511-5207A 1 CDM Test Harness
- **Replaces OEM Part Numbers:** 8222779A 2, 8222779A 5, 8222779A10, 8222779A12, 8222779A13, 8222779A14, 827509A6, 827509A12
- **Manufacturer:** Water Sport Manufacturing (Brand: Pwc Engine)
- **ASIN:** B01DMDBZCS
- **First Available:** March 30, 2016

## WARRANTY INFORMATION

Pwc Engine products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Pwc Engine customer support. Typically, warranty covers defects in materials and workmanship under normal use.

## CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty claims, please contact Pwc Engine customer support. Have your product model number (511-7509K) and purchase date ready when contacting support.

You can find contact information on the official Pwc Engine website or through your retailer.