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Mercury Marine
Service Repair Department
1939 Pioneer Road
Fond du Lac, Wis. 54935, U.S.A.

EUROPE, AFRICA and NEAR EAST

Mercury Marine S.A.
European Training Center
B 4521 Cheratte (Liege), Belgium

AUSTRALIA and PACIFIC AREA

Mercury Marine Pty. Ltd.
Service Repair Department
P.O. Box 80
Dandenong, Victoria 3175, Australia

When shipping unit to factory, all shipping charges must be prepaid and the following information included:

1. Serial number

2. Date purchased

3. Details of trouble experienced

4. Dates of previous correspondence

THUNDERBOLT IGNITION PRECAUTIONS

WARNING: Danger, high voltage. DO NOT touch or disconnect any ignition system parts while engine is running or with battery connected.

CAUTION: If engine harness battery cables are connected to the battery, DO NOT connect analyzer battery leads in reverse.

1. Do not reverse battery terminals.
2. Do not spark battery terminals with battery leads to check polarity.
3. DO NOT perform any system check until the possibility of a bad electrical harness, MerControl, stop switch or mercury switch has been ruled out as a possible source of trouble.

4. On early models only, do not attempt to run engine without the shorting clipper connected in alternator system, as switch box could be damaged.
5. Do not install resistor type lead wires or resistor type spark plugs. Radio interference is less with this system than with conventional ignition systems.
6. Do not ground any wires to engine block. Ground only to bottom cowl or front cover plate to which switch box is mounted.
7. Do not disconnect battery leads while engine is running.
8. Amperage draw for engine operation is approximately ½-ampere at idle, increasing to 4 amperes at full throttle.
9. Do not remove any other engine wires from ignition components, except those instructed to remove in system check.

IGNITION ANALYZER SELF-TESTS

WARNING: DANGER, high voltage. Before performing self-tests, remove all test leads from analyzer. DO NOT touch meter jacks.

ANALYZER SELF-TEST

Converter Test

1. Connect analyzer battery leads (positive [red] to [F] jack and negative [black] to [E] jack) to analyzer.

2. Connect analyzer battery leads to a fully charged 12 volt battery.
3. Turn "Analyzer Selector Switch" to No. 1 position.
4. Press "Power" switch to ON position. "Power On" light should illuminate.

NOTE: If "Power On" light does not illuminate, check analyzer battery lead connections and check analyzer fuse. [Refer to "Fuse Replacement (VOA Meter and Analyzer)", following.]

5. Push "Test" switch to left and hold for duration of test. If converter circuit is working, a low-pitched noise will be heard.

Mercury Thunderbolt Ignition User Guide

Ying-Ying Zheng



Mercury Thunderbolt Ignition User Guide:

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