

NUMBER: 80-13

DATE: 9/29/80

- A. New - Quicksilver Volt/Ohm Meter (C-91-93572)
- B. Fuel Tank/Flywheel Clearance - Merc 4
- C. Replacement Gear Housing - Merc 20
- D. Tiller Handle Assembly, Complete - Merc 7.5/9.8

CIRCULATE TO:  
SERVICE MANAGER  
PARTS MANAGER  
MECHANICS

## A. NEW - QUICKSILVER VOLT/OHM METER (C-91-93572)

A new Quicksilver Volt/Ohm Meter (C-91-93572) now is available for electrical/ignition system testing.

This versatile meter is capable of performing all required measurements [Resistance (Ohms ·  $\Omega$ ) and Direct Current Voltage (DCV)] for proper electrical/ignition system testing of Mercury - MerCruiser · Mariner products.

The new Volt/Ohm Meter is ideally suited for use with the Direct Voltage Adaptor (DVA), C-91-89045, for troubleshooting Alternator Driven Ignition (ADI) systems. (Refer to Outboard Service Bulletin, 79-10, dated 6/6/79).

*NOTE: Quicksilver Volt/Ohm Meter C-91-93572 SUPERSEDES Quicksilver VOA Meter C-91-62562A1 (VOA Meter ~~from~~ Quicksilver Thunderbolt Ignition Analyzer).*

The meter can also be used with Reference Electrode Assembly, C-76675A1, (to check galvanic corrosion potential), provided the original "jack" on the Reference Electrode Assembly [which contains a resistor for proper scale reading when used with Quicksilver VOA Meter C-91-62562A1] is replaced with a standard "jack" (available from local electronic stores).

**C-91-93572 Quicksilver Volt/Ohm Meter**

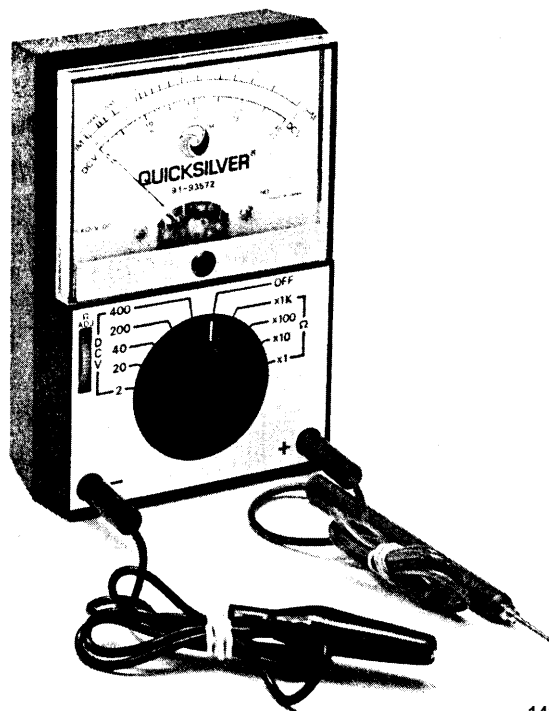


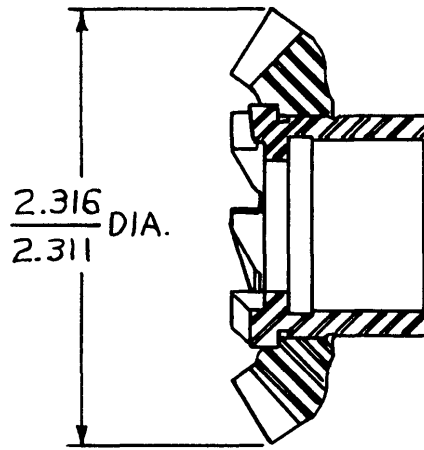
Figure 1. Quicksilver Volt/Ohm Meter (C-91-93572)

## B. FUEL TANK/FLYWHEEL CLEARANCE - MERC 4

When servicing Merc 4 (Gnat) motors, for any reason, ALWAYS check the fuel tank retaining strap to make certain the fuel tank is properly secured. A MINIMUM of 3/16" clearance must be maintained between the fuel tank and the flywheel perimeter.

## C. REPLACEMENT GEAR HOUSING - MERC 20 (BASIC GEAR HOUSING)

When ordering a BASIC replacement gear housing A-1627-4404A6 or A-1627-6006A5 for a Merc 20 ABOVE Serial Number 2991678, it will be necessary to check the outside diameter (O.D.) of the old forward gear to assure that it will fit properly in the new, replacement gear housing.



The forward gear used in Merc 20 gear housing assemblies from 1971 thru 1974 had a 2.351" O.D. while in 1975 and NEWER motors the O.D. is 2.316". As a result, the older forward gear (2.351" O.D.) does not have proper clearance between the gear teeth and the gear housing and **CANNOT BE USED** in a new, replacement A-1627-6006A5 gear housing.

If this situation is encountered the forward gear assembly (A-43-45227A5) must also be replaced.

*NOTE: A-43-45227A5 forward gear assembly consists of the forward gear and the roller bearing. It **DOES NOT** include the forward gear ball bearing.*

#### **D. TILLER HANDLE ASSEMBLY, COMPLETE - MERC 7.5/9.8**

A service replacement Tiller Handle Assembly, A-77194A2 (all handle components and cables assembled), now is available for Merc 7.5/9.8 motors (1979 and Newer) which are equipped with "cable type" tiller handle.

*NOTE: This assembly will be added to the respective Parts Lists at next revision.*

**A-77194A2      Tiller Handle Assembly, Complete**