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A. PHASED MAKER IGNITION COIL READING with VOA METER - 1972 Merc 200-110-75-40

(Attach Service Bulletin Sticker on Page 3C-13 of Your Service Manual.)

Following are VOA (C-91-52751) readings for 1972 Merc 200-110-75-40 ignition coil (A-336-4528A1):

Lead Hookup	VOA Scale	Reading
1. VOA leads to each primary stud on coil	R x I	0 to .2
2. VOA lead on secondary in tower and other lead on small pigtail	R x 100	5 to 7
3. VOA lead to primary stud and other lead to secondary in tower	R x 1000	0

B. MERC 650 (3-CyL.) COIL READING with VOA METER

(Attach Service Bulletin Sticker on Page 3C-6 of Your Service Manual.)

Following are VOA (C-91-52751) readings for the 1972 Merc 650 ignition (black) coil (A-336-4592A1):

Lead Hookup	VOA Scale	Reading
1. One VOA lead to "GRD" stud and other lead to "CONV" stud	R x I	0
2. One VOA lead to "GRD" stud and other to secondary in high voltage tower	R x 100	8-12

C. SHIFT SHAFT GEAR with DETENT - Merc 110-60-39

(Attach Service Bulletin Sticker on Page 6A-9 of Your Service Manual.)

An upper shift shaft gear (A-43-60653) is available for older model Merc 110-60-39 engines (prior to 1968). On these models, the detent spring engages directly into the upper shift shaft gear to hold it in place.

A-43-60653

Gear, Upper Shift Shaft

\$1.35 U.S. List

(OVER)

D. TORCH LAMP - MERC 1400 PISTON PIN REMOVAL

(Attach Service Bulletin Sticker on Page 9-21 of Your Service Manual.)

A new, special tool - the Torch Lamp (**C-91-63209**) -- can be used to apply heat to the Merc **1400** piston for easier removal and installation of the piston pin. This heat lamp also has many other uses in the Outboard, MerCruiser and Snowmobile repair shop. Order yours today.

C-91-63209	Torch Lamp	\$22.50 Net U.S.
C-91-63210	Lamp Bulb (Replacement)	7.75 Net U.S.

E. MERC 650 (3-cyl.) GEAR HOUSING IDENTIFICATION

(Attach Service Bulletin Sticker on Page 6C-1 of Your Service Manual.)

Effective March **16, 1972**, all Merc **650** (3-Cyl.) gear housings (long shaft **1643-4814A8** and short shaft **1643-4814A7**) have had a No. **"6"** stamped into the housing, as shown in Figure 1.

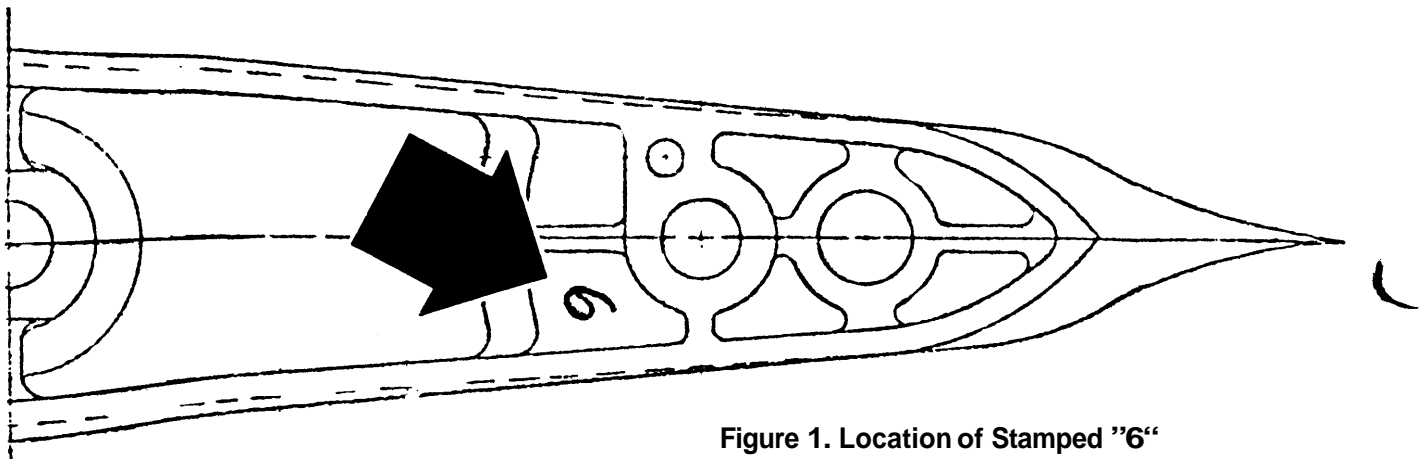


Figure 1. Location of Stamped "6"

The **"6"** marking will identify a Merc **650** (3-Cyl.) gear housing from a Merc **500** or a Merc **402**, which appear identical externally. To identify gear housing assemblies, which were manufactured previous to March **16, 1972**, turn the drive shaft one complete turn. If the propeller shaft turns only one-half (½) turn, the gear housing is a Merc **500-402** (**2:1** gear ratio). The Merc **650** has a **1.65:1** gear ratio.