TIMING, ADJUSTING, TESTING MERC 1000-900, STARTING WITH 1965

IGNITION DATA

Description	Merc 1000-900
Cylinder Firing Order (Figure 1)	1-4-5-2-3-6
Coil No. 1 Fires Cylinders	1-5-3
Coil No. 2 Fires Cylinders	2-4-6
Firing Sequence	60° Consecutive
Spark Plug, Standard Installation §	J4J
Spark Plug, Resistor Type *	XJ4J
Spark Plug Gap	.025" (.6350mm)
Timing	.222" (5.6388mm)
	(32½°) BTDC
Breaker Setting	90° Dwell
RPM, Maximum	5200

- § See Note No. 1 on Page 75.
- * For static elimination on radio or radio-telephone equipped boats.

TIMING AND LINKAGE ADJUSTMENT

A. Flywheel, Distributor Pulley and Belt Assembly

- 1. Rotate flywheel until timing mark (a straight line stamped on upper surface) is in a straight line with center of crankshaft and distributor pulley center. (Figure 2)
- 2. Position arrow on pulley (not plate) to point at timing mark on flywheel.
- 3. Install timing belt, plate, cap. washers and screw and tighten to 60 in. lbs. (10.65 kg/cm)

B. Distributor Drive Coupling

1. When reassembling distributor, leave distributor cap off to aid in timing engine as described in following instructions.

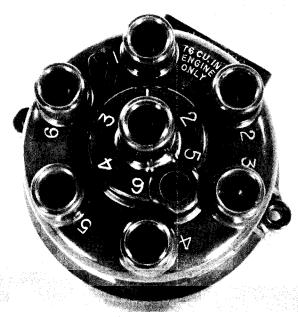


Figure 1. Distributor (Outside Ring of Numbers for 76 Cu. In. [1245.424 cm³] and Larger Engines)

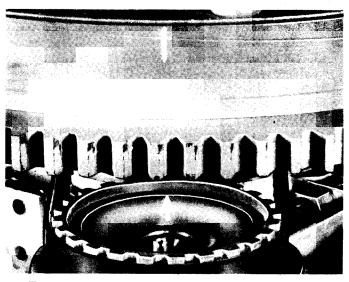


Figure 2. Timing Marks on Flywheel and Pulley

2. When distributor is reassembled to engine, flywheel and distributor pulley Timing Mark should be aligned as ex-Tang Face plained in Para. "A", pre-Forward ceding. The radius of the tang at drive end of distributor shaft should point forward (direction engine will

bolted in place). (See draw-

ing on left.) 3. Secure distributor adaptor with 4 hex head cap screws.

travel when distributor is

C. Spark Advance Stop Adjustment

- 1. Position distributor with air vent elbow facing approximately forward.
- 2. Place No. 3 piston at .222" (5.6388mm) (32½0) BTDC (before top dead center) by rotating flywheel in a clockwise (forward) direction from BDC (bottom dead center).
- 3. Thread Timing Gauge (C-91-32253A1) into No. 3 spark plug hole.
- 4. Turn flywheel until No. 3 piston strikes Timing Gauge.
- 5. While turning flywheel, thread Timing Gauge in or out so that piston can "rock" over center shaft of gauge, indicating that Timing Gauge is set at top dead center position.
- 6. Rotate flywheel clockwise ¼ turn.
- 7. Depress center shaft of Timing Gauge and rotate ¼ turn to seat on tool body shoulder (.222" 5. 6388mm position). NOTE: Be careful that tool body does not move, or preceding procedure will have to be repeated.
- 8. Rotate flywheel clockwise until No. 3 piston strikes Timing Gauge center shaft. This is .222" (5.6388mm) BTDC.
- 9. Connect one test lead of Timing Meter (C-91-22966) or Magneto Analyzer (C-91-25213) (selector