Some owners of 1000cc and 1340cc engines built since January 1, 1978, have experienced a "knocking" and/or "pinging" effect due to the unavailability of fuels with high enough octane ratings.

Reducing the spark advance on these engines a small amount (anywhere between 1° - 10°) can help to eliminate this problem. Use the following procedure when re-setting the ignition timing.

### NOTE

Although retarding the spark advance will help to eliminate the "knocking" and/or "pinging" in an engine, a slight loss of power and fuel economy may be noticed by the owner.

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**PRESTOLITE IGNITION SYSTEMS**

1. Check the ignition timing as described in the Service Manual under CHECKING ADVANCE TIMING WITH STROBE TIMING LIGHT. Set the timing if necessary.

2. See Figure 1. Turn the engine over until the timing mark (7) is at the extreme front edge of the timing hole (9).

3. Make a new timing mark (8) with a piece of chalk at the extreme rear edge of the timing hole.

4. Start the engine and set the idle speed at 2000 rpm. Retard the timing by shifting the timer plate (4) so the new timing mark (8) moves toward the front of the timing inspection hole. The timing advance should only be reduced in 2 1/2 ° increments and on-

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**Figure 1. Prestolite Timer and Flywheel Timing Marks**

- 1. Rotor
- 2. Sensor
- 3. Sensor screws (2)
- 4. Timer plate
- 5. Plate screw (2)
- 6. Plate adjusting notch
- 7. Front cylinder advance timing mark on flywheel
- 8. Timing mark made with chalk
- 9. Timing inspection hole
- 10. Cover plate
ly enough to correct the problem. Timing should not be changed more than 10° (when the new timing mark [8] is at the extreme front edge of the timing inspection hole.)

5. Reassemble the ignition timer cover.

MAGNAVOX IGNITION SYSTEM
1980 and Later All Models

1. Check the ignition timing as described in the Service Manual under CHECKING ADVANCE TIMING WITH STROBE TIMING LIGHT. Set the timing if necessary.

2. See Figure 2. Set the engine speed at 2000 rpm. Shine a light into the timer compartment until the rotor slot (1) can be seen in the timer plate (2).

3. Loosen the timer plate screws and shift the timer plate (2) in the opposite direction of arrow to retard the timing.

4. Shift the timer plate from the edge of the rotor slot in 2 1/2° increments until the problem is corrected. Do not change the timing more than 10°.

5. Reassemble the ignition timer cover.

1. Rotor
2. Timer plate

Figure 2. Magnavox Ignition Timer