The timing can now be tested with a stroboscopic test light as follows:

1. Select a piece of sheet metal 80 x 50 mm  $(3^{1}/_{8} \times 1^{31}/_{32} \text{ in.}).$ 

2. Mark degree lines and radii and cut slots using a saw or tin shears. The slots should be approx. 10 mm ( $\frac{1}{2}$  in.) deep and just wide enough to allow a pencil to enter.

Testing

1. Turn the crankshaft so that the timing (OT) mark is upward.

2. Using the fabricated pattern, mark the timing degrees on the pulley with a pencil.

3. Using a quick drying lacquer, paint black segments as shown in Fig. 47.

4. Connect a strob-light in series with the spark plug wire of No. I cylinder.

5. Darken the marking on the generator base with black paint,

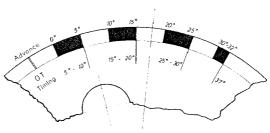


Fig. 47

3. The three tabs at the upper rim are to be bent back to act as guides. The small tab at the left edge, when bent back, fits into the OT slot on the pulley and acts as an index. The index tab should be not more than 0.5 mm (.197 in.) high when bent over.

Fig. 46

Maximum Advance Angle

> 6. Start the engine and test the automatic advance at various speeds.