OPERATING INSTRUCTIONS
for the Kent-Moore Model 10
AUTRONIC-EYE TESTER

Figure 1

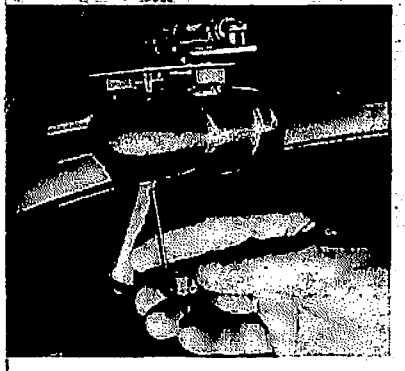

Figure 2

Aiming the Autronic-Eye Phototube Unit

In order to insure proper performance of the Autronic-Eye the Phototube unit must be accurately aimed in accordance with following procedure:

1 Aiming adjustment of the Phototube Unit should be done with no passengers, with normal car and trunk loading, preferably with gasoline tank at least half full and with correct tire pressure.

2 Locate car on a level floor. Floor must be level within ¼" fore and aft of the car.

3 Rock car gently sideways to equalize springs.

4 Adjust aiming dial on Aiming Device to number stamped on name plate on under side of Phototube Unit.

5 Locate Aiming Device on top of Phototube Unit (see Fig. 1), being careful to:

(a) Center Aiming Device on the raised ridge.

(b) Move Aiming Device to the rear until it contacts the lens.

6 Adjust Phototube Unit aiming screw (see Fig. 2) until bubble is centered in level.

Dim Sensitivity Test and Adjustment

Separate sensitivity adjustments are provided for adjusting "DIM" and "HOLD" sensitivities. These adjustments are made by using the Model 10 Guide Autronic-Eye Tester for 6 or 12 volt vehicles with either Positive or Negative ground.

IMPORTANT: Before beginning the sensitivity tests make sure the Tester batteries are in good working order. To make this check, simply turn the meter control knob to the extreme clockwise position. If the meter needle moves to the Battery OK position (See Figure 3), proceed with the tests. If not, remove the four flashlight cells by taking the plate off the back of the Tester and replacing with four new cells. (Due to possible battery leakage the sealed in steel type of battery is recommended.) If further service or repairs are needed send unit to factory: Kent-Moore, Organization, Inc., 1501 S. Jackson St., Jackson, Michigan.

Dim sensitivity adjustments may be made by adjusting the Phototube Unit Sensitivity Control (see Fig. 5). The Autronic-Eye develops 1,000 volts—headlamps should be turned off before removing cover from Phototube Unit.

1 Remove 2 oval head screws from bottom of Phototube Unit.

2 Lift off cover of Phototube Unit and remove outer lens (do not remove amber filter). Replace lens with Test Lamp (see Fig. 4).

3 Replace cover and screws.

4 Turn headlamps ON and wait at least 4 minutes for amplifier to stabilize. Set Standard Foot Dimmer Switch to "Automatic" position. (Upper beam will then be on.)

5 Turn zero corrector on face of meter until the meter pointer is on the zero set line.

6 If windshield is tinted, use upper scale on dial. If windshield is clear, use lower scale on dial.

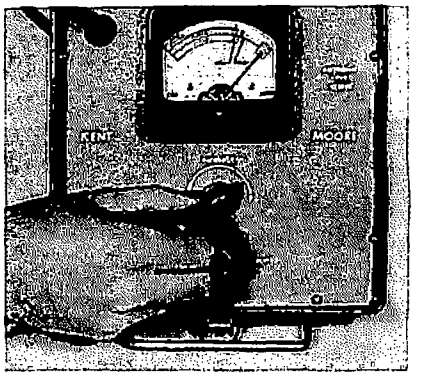

Figure 3

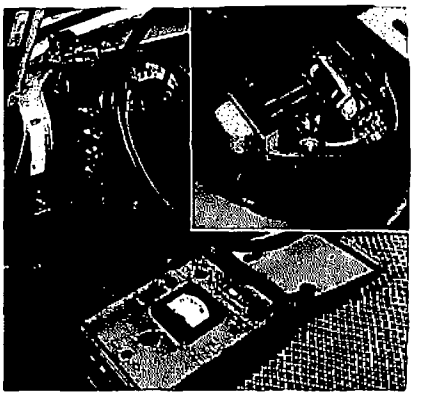

Figure 4

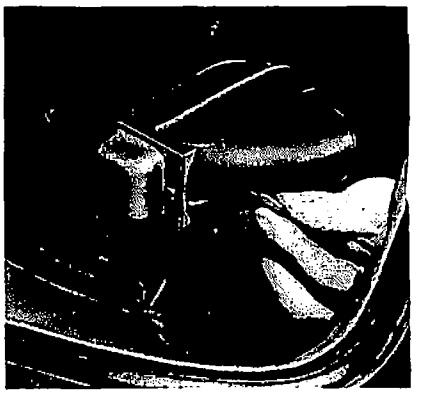

Figure 5

7 Check the voltage of the car battery. If less than 6 volts, operate engine at a fast idle when making sensitivity adjustments.

8 Snap meter switch on test panel to "DIM" position. Turn meter control knob clockwise to set test panel in operation.

9 Advance needle up dial by turning meter control knob clockwise and note point on dial scale where headlamps switch to lower beam. If Phototube Unit is adjusted correctly, the headlamps should switch to lower beam when the meter needle is on the "DIM" line of the dial. If not, proceed as follows:

10 Rotate Phototube Unit Sensitivity Control (see Fig. 5) counter-clockwise to end of adjustment using the special 1/16" screwdriver provided with the Tester.

11 Turn meter control knob counter-clockwise until headlamps switch to upper beam, and then turn meter control knob clockwise until meter needle is on "DIM" line of dial.

12 Carefully and slowly turn Phototube Unit Sensitivity Control clockwise just to the point where the headlamps switch to the lower beam. Do NOT go beyond this setting.

13 Recheck this setting by turning meter control knob counter-clockwise until headlamps switch to the upper beam and then turn meter control knob clockwise until meter needle is on "DIM" line of dial.

14 Turn meter control knob clockwise slowly just to the point where the headlamps switch to the lower beam. If "DIM" sensitivity has been adjusted correctly the meter pointer should fall within the "DIM" sensitivity adjustment line on the meter scale. If not repeat steps 5 through 14.

Hold Sensitivity Test and Adjustment

"HOLD" Sensitivity adjustment may be made by adjusting the potentiometer on the bottom (outside) of the Amplifier Unit. This adjustment shouldn't be made until "DIM" sensitivity is adjusted correctly and "HOLD" sensitivity adjustment checked to see if the meter pointer falls within "HOLD" sensitivity adjustment bar.

Checking "Hold" Sensitivity Adjustment

1 With "DIM" sensitivity correctly adjusted, snap meter switch to "DIM" position.

2 Turn the meter control knob clockwise to obtain the lower beam.

3 Snap meter switch to "HOLD" position.

4 Turn meter control knob counter-clockwise carefully and slowly just to the point where the headlamps switch to the upper beam. The meter pointer should fall within the "HOLD" sensitivity adjustment bar on meter scale. (Note: Be sure to use correct "HOLD" scale for clear or tinted windshields.) If not adjust amplifier for "HOLD" sensitivity as follows:

Adjust Amplifier for "Hold" Sensitivity

1 Turn off headlamps.

2 Remove Amplifier mounting screws.

3 Turn Amplifier over and attach a jumper wire between case of Amplifier and ground on car.

4 Turn "HOLD" control on bottom of Amplifier Unit clockwise to end of adjustment (see Fig. 6).

5 Turn on headlamps and wait four minutes to allow amplifier to stabilize.

6 Snap meter switch to "DIM" position and rotate meter control knob clockwise to switch headlamps to lower beam; then snap meter switch to "HOLD".

7 Adjust meter control knob until pointer is in center of the "HOLD" sensitivity adjustment bar on meter scale. (Note: Be sure to use correct "HOLD" scale for clear or tinted windshields.)

8 Turn "HOLD" control on Amplifier counter-clockwise slowly just to the point where the headlamps switch to the upper beam. If headlamps do not switch to upper beam when "HOLD" control is turned completely counter-clockwise, rotate meter control knob counter-clockwise until headlamps switch to upper beam. If meter pointer is within "HOLD" sensitivity adjustment bar, the Amplifier Unit is within tolerance.

9 Again check "HOLD" sensitivity adjustment by snapping meter switch to "DIM" position and rotating meter control knob clockwise to switch headlamps to lower beam.

10 Then snap switch to "HOLD" position.

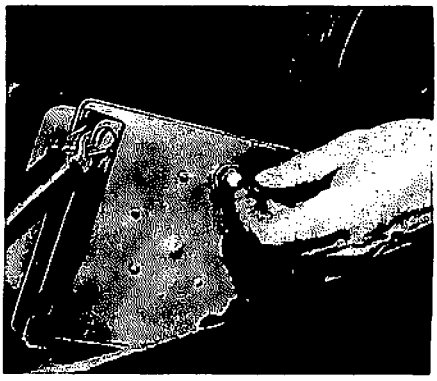

Figure 6

11 Turn meter control knob counter-clockwise carefully and slowly to point where headlamps switch to upper beam. Meter pointer should fall within the "HOLD" sensitivity adjustment bar on meter scale, if adjustment was made correctly. (Note: Be sure to use correct "HOLD" scale for clear or tinted windshields.)

12 Turn off headlamps and reinstall Amplifier.

13 Remove 2 oval head screws bottom of Phototube Unit.

14 Lift off cover, remove test lamp and replace lens.

15 Replace cover and screws.

16 CAUTION: Be sure to turn meter control knob to "Off" position after using to prolong battery life.

KENT-MOORE ORGANIZATION, INC.

ENGINEERS AND MANUFACTURERS OF SERVICE TOOLS AND EQUIPMENT

GENERAL MOTORS BUILDING • DETROIT 2, MICHIGAN

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