



**SCHEMATIC OF THE
HEATHKIT®
AUTOMOTIVE TUNE-UP METER
MODEL ID-29**

- NOTES
1. ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS IF + 1000 OHMS.
 2. TIMING RESISTORS, R5 THROUGH R13, ARE 1 K.
 3. ALL CAPACITOR VALUES ARE IN μ F.
 4. SWITCHES ARE SHOWN IN FULL COUNTERCLOCKWISE POSITION AS VIEWER FROM THE KNOB END.
 5. REFER TO THE CIRCUIT BOARD X RAY VIEW FOR THE LOCATION OF PARTS.
 6. \square THIS SYMBOL INDICATES CONNECTION TO CIRCUIT BOARD.
 7. \odot THIS SYMBOL INDICATES DC VOLTAGES MEASURED UNDER THE FOLLOWING CONDITIONS:
CYLINDERS SWITCH SET AT 8
FUNCTION SWITCH SET AT DWELL
32 VOLTS DC INPUT UNTEST LEADS.
 8. ALL VOLTAGES ARE MEASURED WITH A HIGH IMPEDANCE VOLTMETER FROM COMMON (1) TO THE POINT INDICATED.

ID-29 SPECIFICATIONS

Dwell Meter Four direct reading scales:
 8 CYL— 0-45 degrees.
 6 CYL— 0-60 degrees.
 4 CYL— 0-90 degrees.
 3 CYL— 0-120 degrees.

Tachometer Two Ranges:
 Low RPM: 0-1500
 High RPM: 0-4500

Voltmeter Direct reading scale, 0-15 volts DC.
Power Requirements Approximate average current 10 mA.
Meter 4½", 1 mA, 100 degree movement.
Accuracy ± 3% of full scale.
Dimensions 8½" wide x 4¼" high x 7¼" deep
 (including handle).
Net Weight 2½ lbs.



HEATH COMPANY, Benton Harbor, Michigan 49022

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