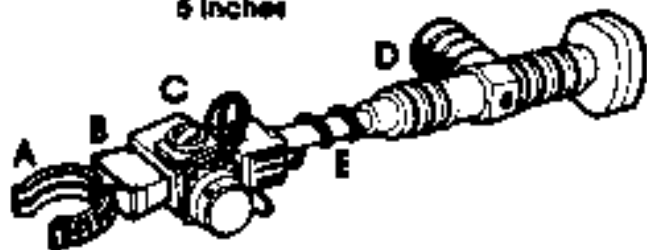


Exceptional capabilities

- 1** ARM provides five axes of motion:
- A. Gripper opens and closes $3\frac{1}{2}$ "
 - B. Wrist rotates 350°
 - C. Wrist pivots 180°
 - D. Arm pivots 150°
 - E. Arm extends and retracts 5 inches



- 19** HERO 1 comes complete with its own battery charger. Robot can operate while being recharged.



- 18** ROBOT is powered by four 4-amp hour rechargeable gel cell batteries. HERO 1 automatically indicates low-voltage.

- 17** CASSETTE INTERFACE provides a means of saving and reloading programs on cassette tape.



- 2** HEAD rotates 350° to position sensors and arm.



- 3** TOP-MOUNTED BREADBOARD for experiments and interfacing user designed circuits to the on-board microprocessor.

- 4** VOICE SYNTHESIZER allows to talk in unlimited vocabulary, produce various sound effects.

- 5** ULTRASONIC MOTION sensor senses the slightest movement around the robot.

- 6** SOUND DETECTOR senses and quantifies sounds in the 5000 Hz range over 20 dB.

- 7** A LIGHT DETECTOR senses ambient light through levels in the visible spectrum.



- 8** SEVEN SEGMENT DISPLAY for memory address, data, program steps and status.

- 9** HEXADECIMAL KEYPAD for entering, modifying and selecting of seven or more modes.

- 10** ULTRASONIC SONAR SYSTEM for determining range and direction of objects from 4 inches to 8 feet with 0.4 inch resolution.

