

- 1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS: 1-99 PARTS MOUNTED ON THE CIRCUIT BOARD. 101-199 PARTS MOUNTED ON THE CHASSIS.
- 2. ALL RESISTORS ARE 1/4 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K=1000).
- 3. VOLTAGES MAY VARY ±20%.
- 4. ALL CAPACITOR VALUES ARE IN MICROFARADS (µF).
- 5. REFER TO THE CHASSIS PHOTOGRAPHS AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.
- 6. THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
- 7. = THIS SYMBOL INDICATES CHASSIS GROUND.
- 8. ② THIS SYMBOL INDICATES A LETTERED CIRCUIT BOARD CONNECTION THAT IS SOLDERED.
- 9. THIS SYMBOL INDICATES A PART NOT MOUNTED ON THE CIRCUIT BOARD.
- 10. → INDICATES CLOCKWISE ROTATION OF CONTROL SHAFT.
- 11.→> THIS SYMBOL INDICATES THAT LIKE POINTS ARE CONNECTED TOGETHER.
- 12. OTHIS SYMBOL INDICATES A DC VOLTAGE TAKEN UNDER THE FOLLOWING CONDITIONS FROM THE POINT INDICATED TO CHASSIS GROUND WITH A HIGH IMPEDANCE VOLTMETER
 - A. KEYER DISCONNECTED FROM TRANSMITTER.
 - B. KEYER CONNECTED TO AC POWER.
 - C. ALL CONTROLS SET TO MIDRANGE.
 - D. SPEED KNOB PUSHED IN.
- 13. L = LOW LEVEL LOGIC: APPROX. .09V

- 14. H = HIGH LEVEL LOGIC: APPROX. 4V
- 15. * THIS SYMBOL INDICATES THE VOLTAGE DEPENDS ON THE SETTING OF CONTROL R17.
- 16. THE WAVEFORMS WERE TAKEN UNDER THE FOLLOWING CONDITIONS:
 - A. SPEED KNOB PULLED OUT (HOLD). TONE CONTROL IN MID POSITION.

 - B. BOTH PADDLES DEPRESSED.
 - C. SPEED CONTROL AT 12 O'CLOCK POSITION, DASH PADDLE
 - D. SPEED CONTROL AT 12 O'CLOCK POSITION, DOT PADDLE DEPRESSED.
- 17.* * 5600Ω FOR 10 TO 60 WORDS PER MINUTE SPEED. 10kΩ FOR 10 TO 35 WORDS PER MINUTE SPEED.