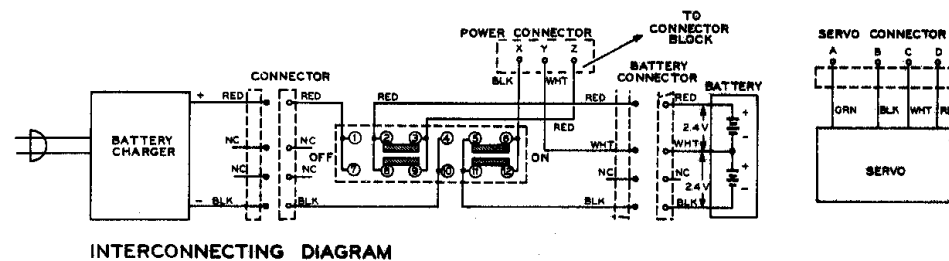
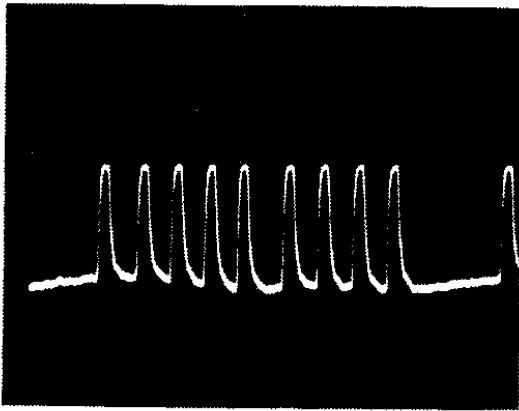


**SCHEMATIC OF THE
HEATHKIT®
MODEL GDA-1205-2
8-CHANNEL MODULAR R/C RECEIVER**

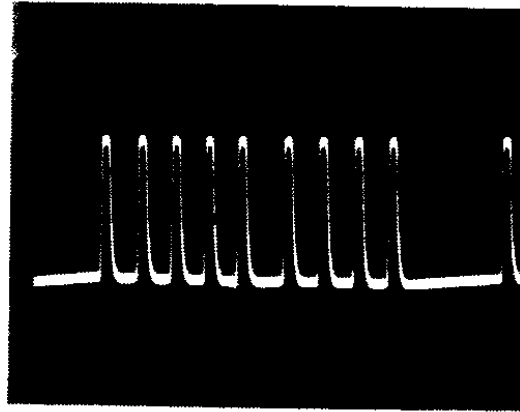
NOTES:

1. ALL RESISTORS ARE 1/4-WATT UNLESS OTHERWISE MARKED (K = 1000).
2. CAPACITOR VALUES LESS THAN 1 ARE IN μ F. VALUES 1 OR GREATER ARE IN pF UNLESS OTHERWISE NOTED.
3. THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASUREMENT WITH NO SIGNAL BEING RECEIVED.
4. * THIS SYMBOL IS USED ON A PART THAT CHANGES VALUE DEPENDING ON THE FREQUENCY BAND IN YOUR RECEIVER. SEE THE CHART "ALTERNATE FREQUENCIES AND PARTS."
5. ALL VOLTAGES ARE MEASURED WITH A HIGH IMPEDANCE VOLTMETER, FROM THE POINT INDICATED TO COMMON GROUND. VOLTAGES MAY VARY $\pm 20\%$.
6. REFER TO THE "STEP-BY-STEP ASSEMBLY" OR TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.

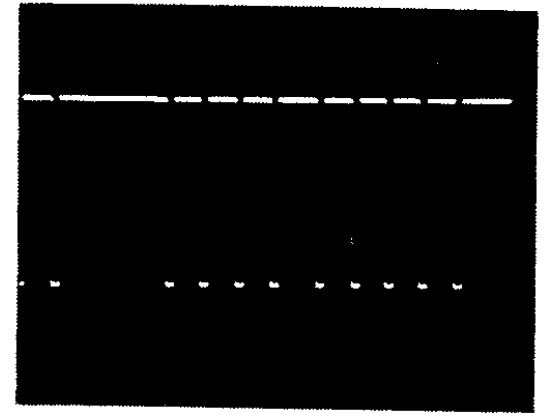




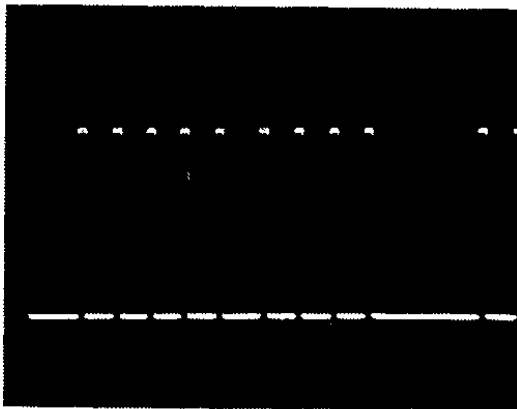
1 COLLECTOR Q5
.5 - 2.0V p-p



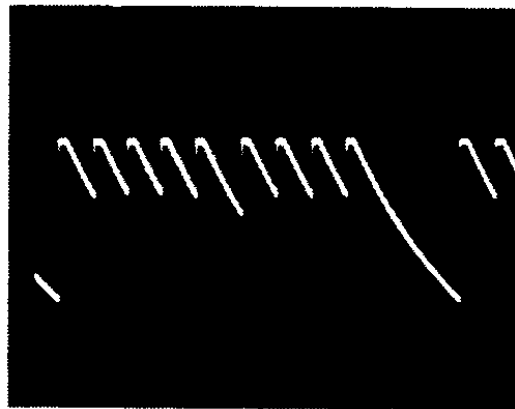
2 BASE OF Q6
0.4V p-p



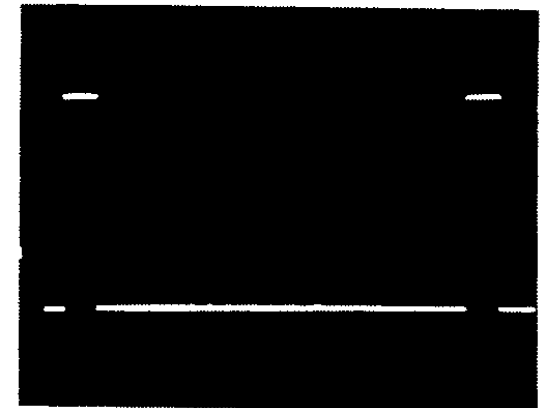
3 COLLECTOR Q6
4.0V p-p



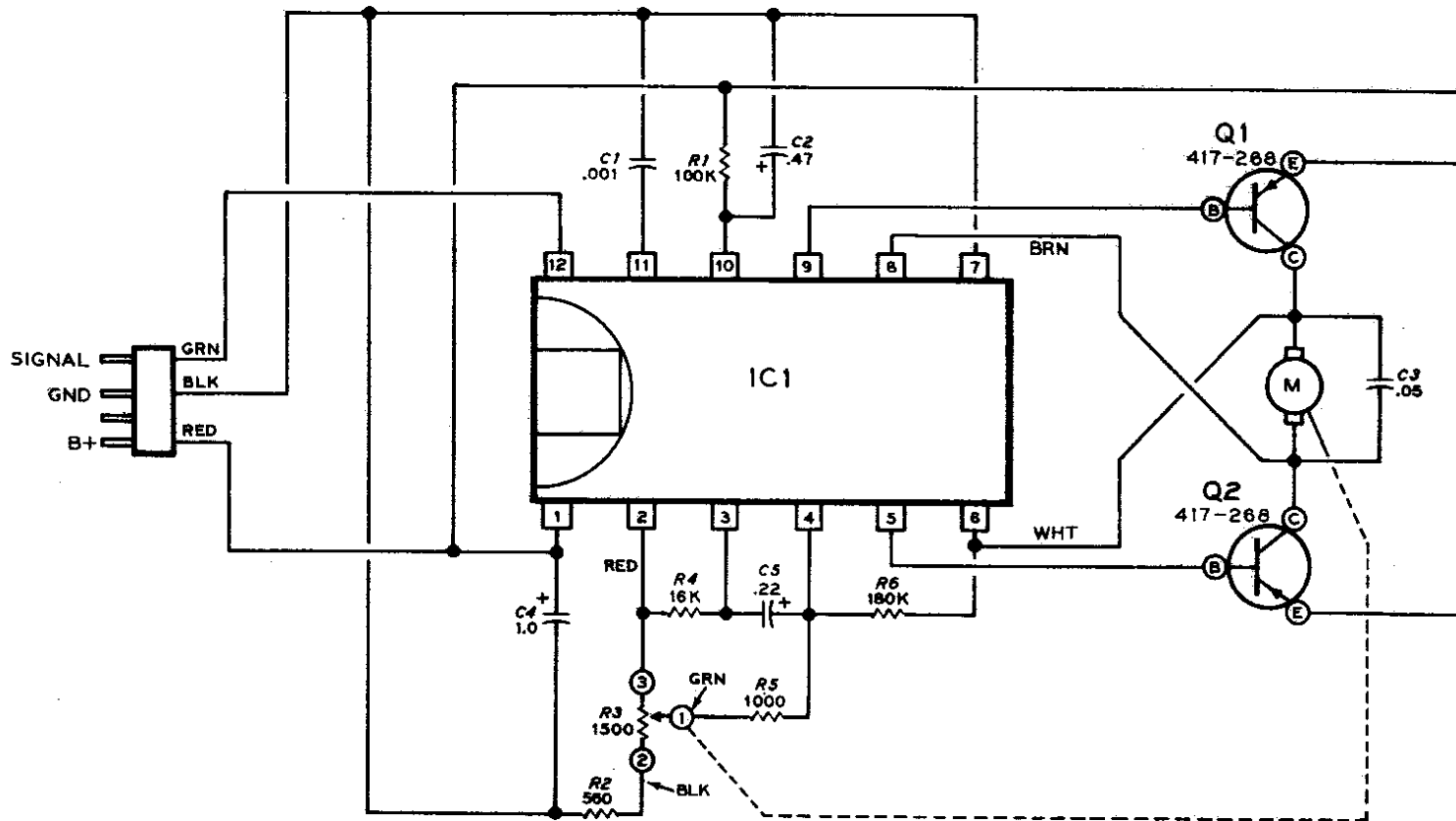
4 COLLECTOR Q7
4.0V p-p



5 PIN 2 IC101





6 IC OUTPUT PINS 9-16
(with servo connected)
4.8V p-p



**SCHEMATIC OF THE
HEATHKIT®
DIGITAL PROPORTIONAL SERVO**

NOTES:

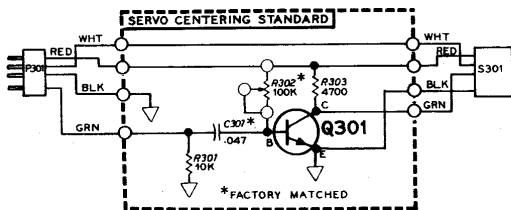
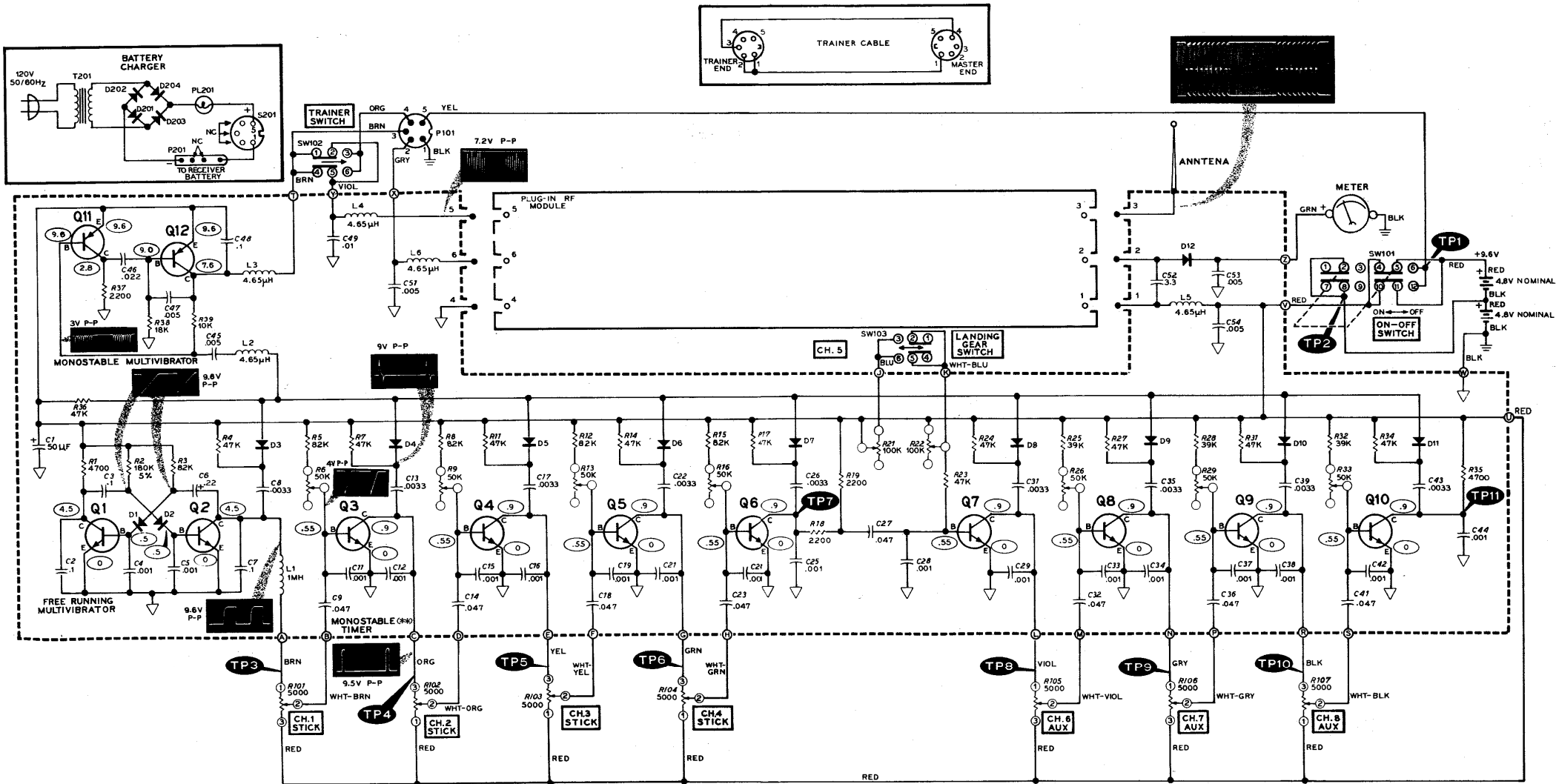
1. ALL RESISTORS ARE 1/4 WATT. RESISTOR VALUES ARE IN OHMS (K=1000).
2. ALL CAPACITOR VALUES ARE IN μF UNLESS OTHERWISE MARKED.
3.  THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASUREMENT.
4.  THIS SYMBOL INDICATES THE NORMAL OPERATING VOLTAGE RANGE.
5. VOLTAGE ON PIN 2 OF THE IC IS VARIABLE FROM 0.2 TO 0.4, DEPENDING ON THE INPUT PULSE. VOLTAGE SHOWN IS WITH THE SERVO IN THE CENTER OF TRAVEL.
6. VOLTAGE ON PIN 6 OF THE IC IS VARIABLE FROM 1.5 TO 2.7, DEPENDING ON THE INPUT PULSE. VOLTAGE SHOWN IS WITH THE SERVO IN THE CENTER OF TRAVEL.

7. ALL VOLTAGES ARE MEASURED WITH A HIGH IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO COMMON GROUND. VOLTAGES MAY VARY $\pm 20\%$.
8. REFER TO THE SERVO PHOTOGRAPH AND CIRCUIT BOARD X-RAY VIEW FOR THE PHYSICAL LOCATION OF PARTS.

FLAT SIDE



MPS6562



(***) TRANSISTORS Q3 THROUGH Q10 OPERATE IN MONOSTABLE TIMER CIRCUITS. THE WAVEFORMS SHOWN FOR TRANSISTOR Q3 ALSO APPLY FOR TRANSISTORS Q4 THROUGH Q10

**SCHEMATIC OF THE HEATKIT
8-CHANNEL DIGITAL PROPORTIONAL TRANSMITTER
MODEL GDA-1205-D**

NOTES:

1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:
1 - 99 PARTS MOUNTED ON THE ENCODER CIRCUIT BOARD.
101 - 199 PARTS MOUNTED ON THE TRANSMITTER CASE.
201 - 299 PARTS MOUNTED IN THE BATTERY CHARGER.
301 - 399 PARTS MOUNTED ON THE SERVO CENTERING STANDARD CIRCUIT BOARD.
2. ALL RESISTORS ARE 1/4-WATT, 10% TOLERANCE UNLESS NOTED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K-1000).
3. ALL CAPACITOR VALUES LESS THAN 1 ARE IN μF VALUES OF 1 AND ABOVE ARE IN pF UNLESS NOTED OTHERWISE.
4. **TP** THIS SYMBOL INDICATES A TEST POINT.
5. **○** THIS SYMBOL INDICATES A DC VOLTAGE MEASURED FROM THE POINT INDICATED TO CHASSIS. ALL VOLTAGES WERE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER. VOLTAGES MAY VARY $\pm 20\%$.
6. ALL MEASUREMENTS WERE MADE WITH A BATTERY VOLTAGE OF 9.6VDC.
7. REFER TO THE CHASSIS PHOTOGRAPH AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.

