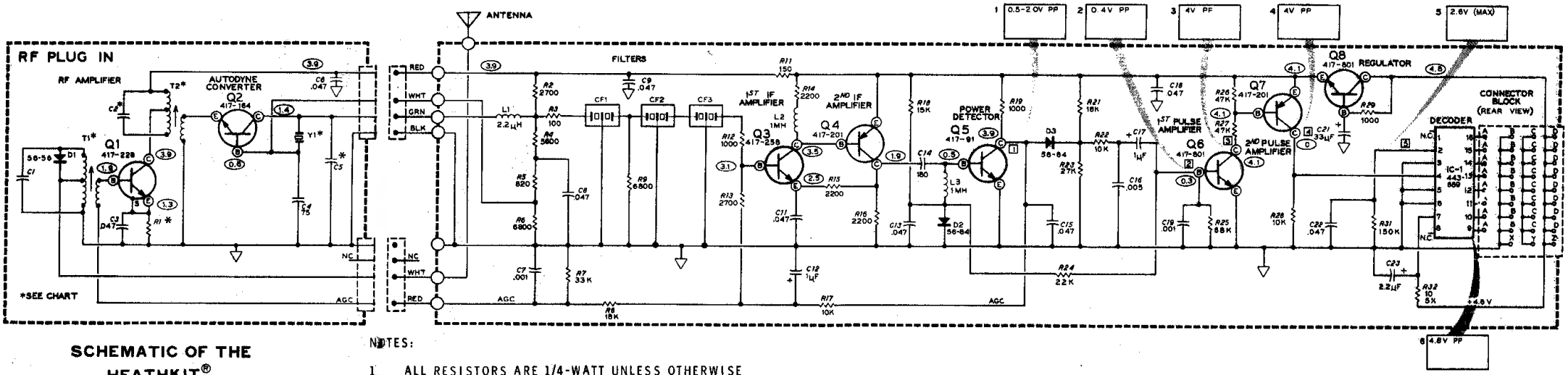
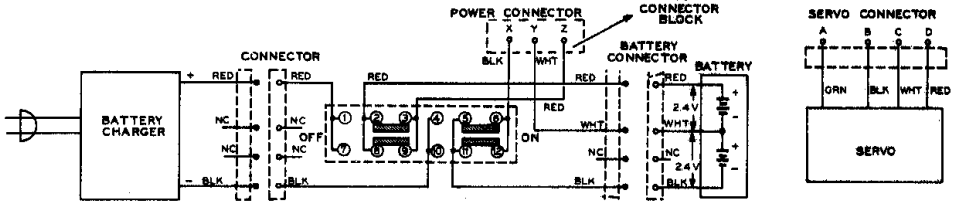


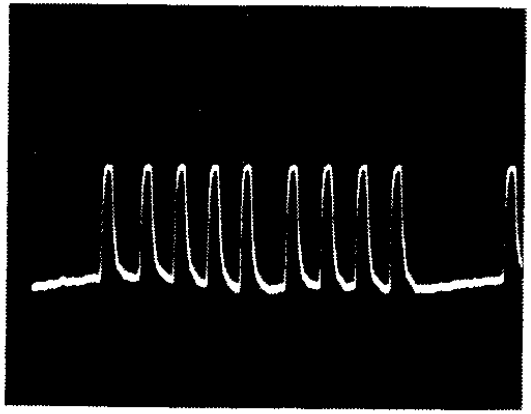
SCHEMATIC OF THE HEATHKIT® MODEL GDA-1205-2 8-CHANNEL MODULAR R/C RECEIVER

NOTES:

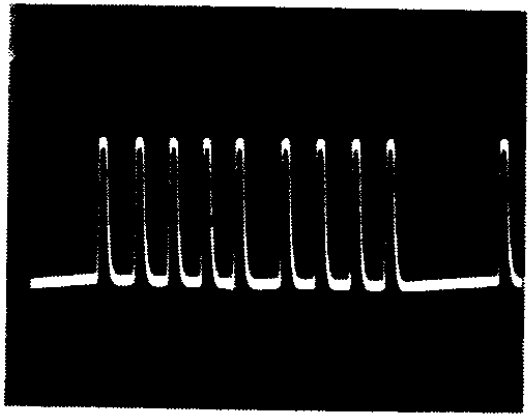
1. ALL RESISTORS ARE 1/4-WATT UNLESS OTHERWISE MARKED (k = 1000).
2. CAPACITOR VALUES LESS THAN 1 ARE IN µF. VALUES 1 OR GREATER ARE IN pF UNLESS OTHERWISE NOTED.
3. ⬭ THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASUREMENT WITH NO SIGNAL BEING RECEIVED.
4. * THIS SYMBOL IS USED ON A PART THAT CHANGES 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 ±20%.
6. REFER TO THE "STEP-BY-STEP ASSEMBLY" OR TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.



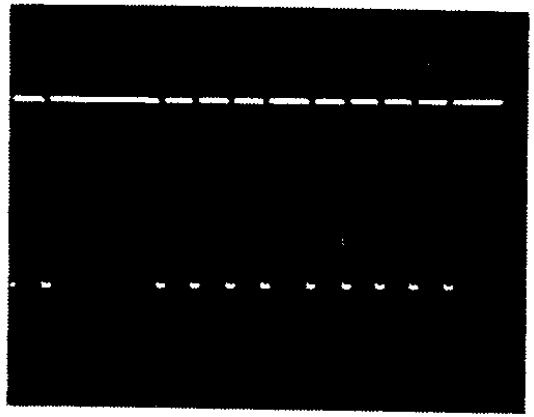
INTERCONNECTING DIAGRAM



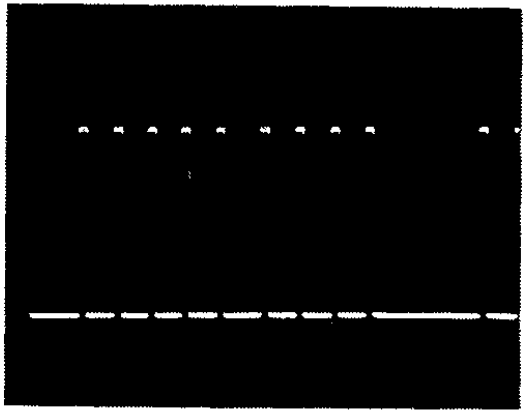
1 COLLECTOR Q5
.5 – 2.0V p-p



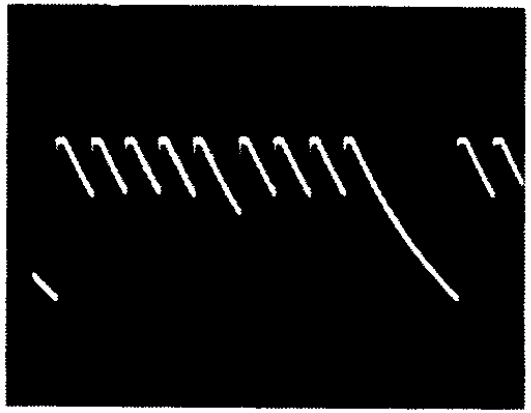
2 BASE OF Q6
0.4V p-p



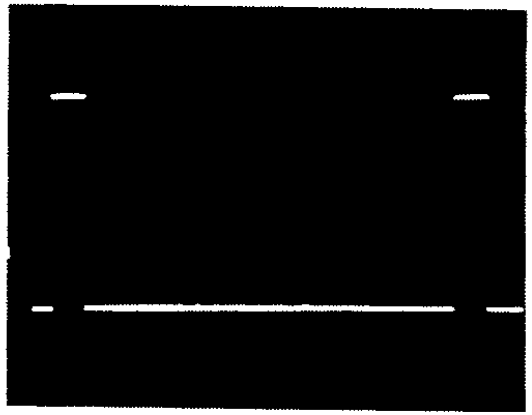
3 COLLECTOR Q6
4.0V p-p



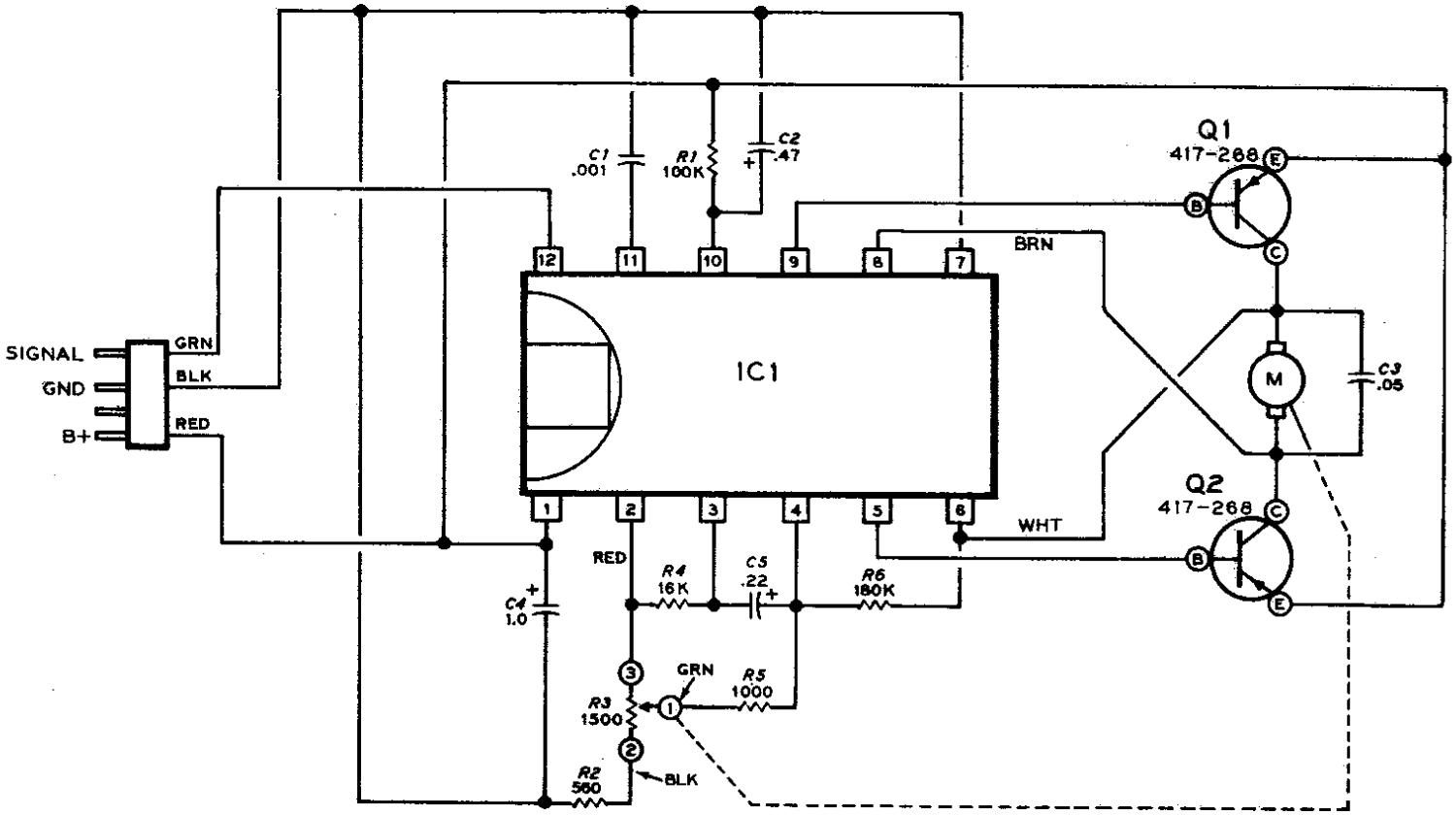
4 COLLECTOR Q7
4.0V p-p



5 PIN 2 IC101



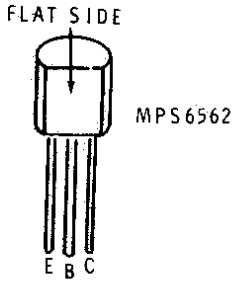
6 IC OUTPUT PINS 9-16
(with servo connected)
4.8V p-p

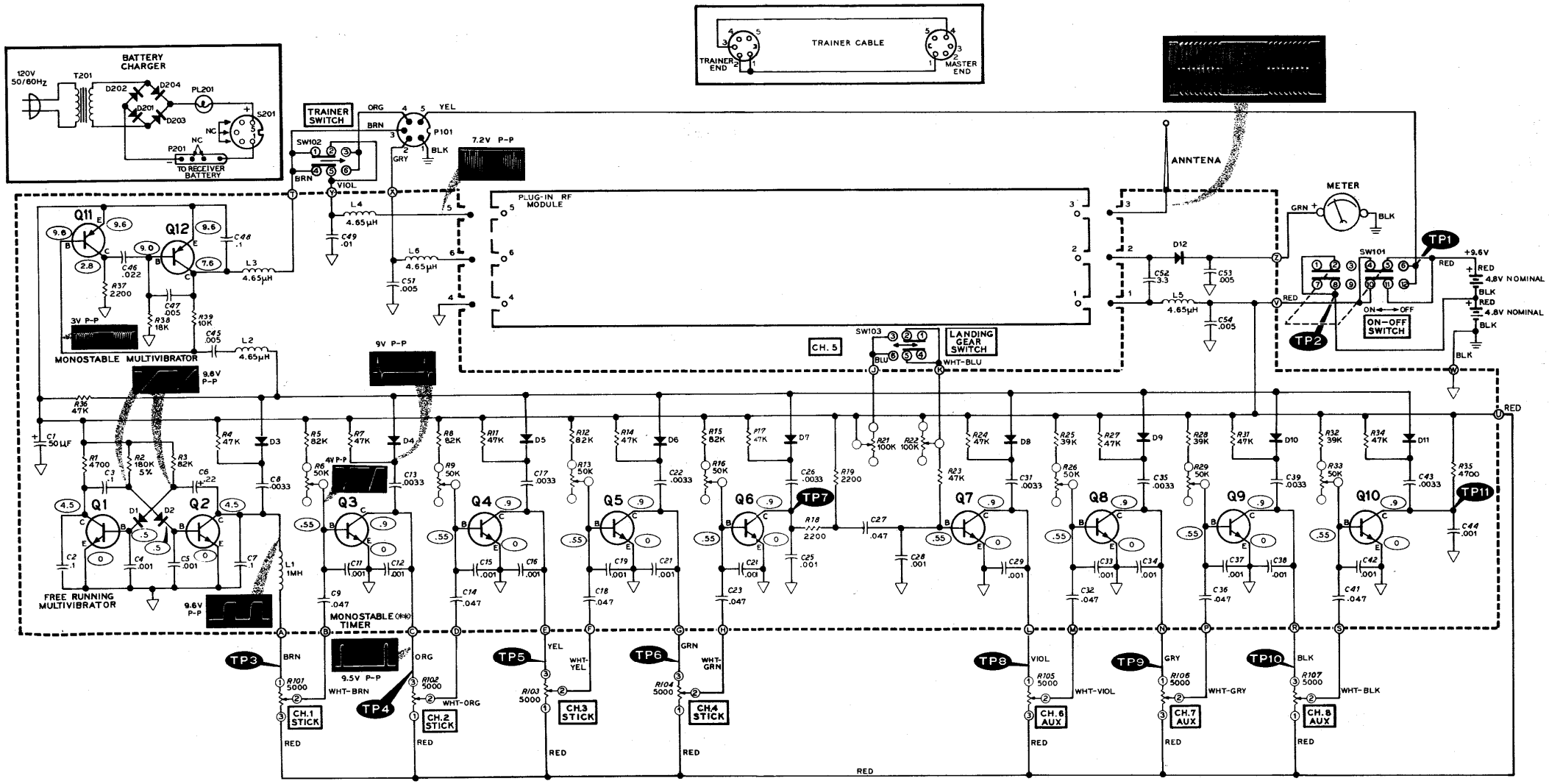


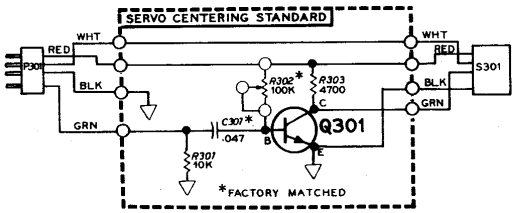
SCHEMATIC OF THE HEATHKIT®
DIGITAL PROPORTIONAL SERVO

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 ±20%.
8. REFER TO THE SERVO PHOTOGRAPH AND CIRCUIT BOARD X-RAY VIEW FOR THE PHYSICAL LOCATION OF PARTS.







(**) 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

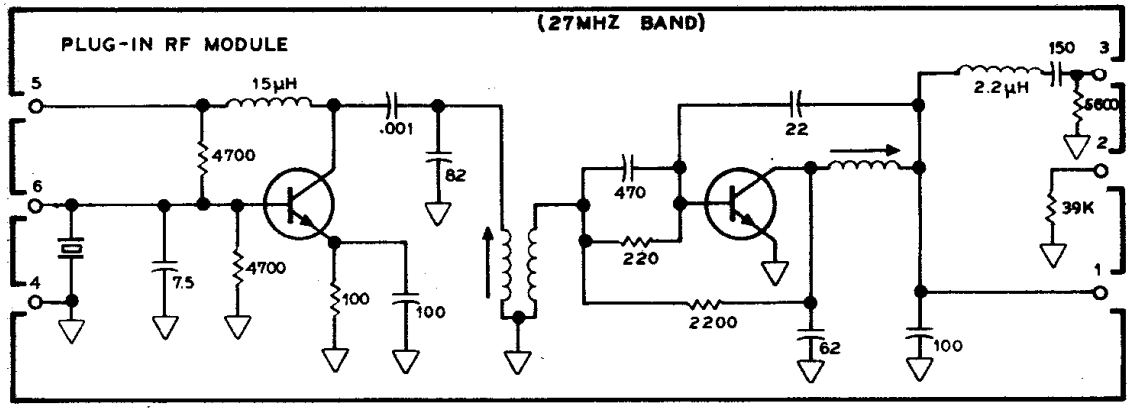
HEATHKIT

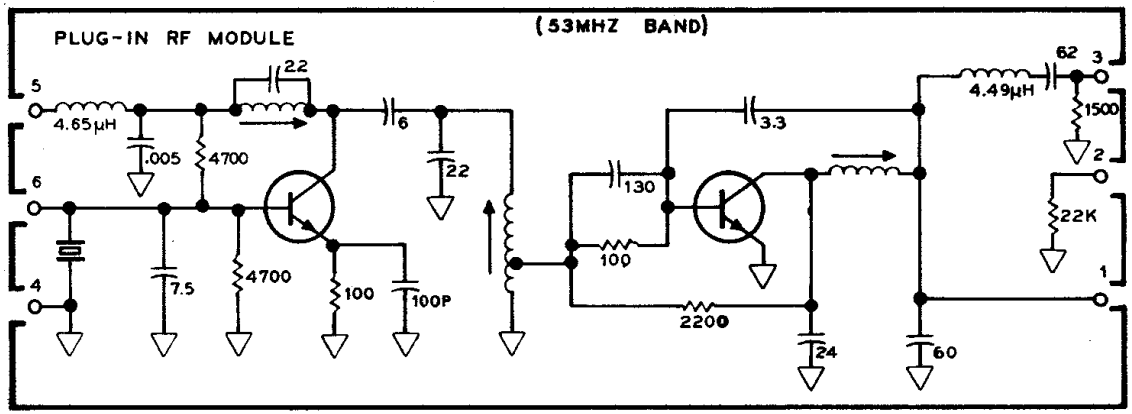
8-CHANNEL DIGITAL PROPORTIONAL TRANSMITTER

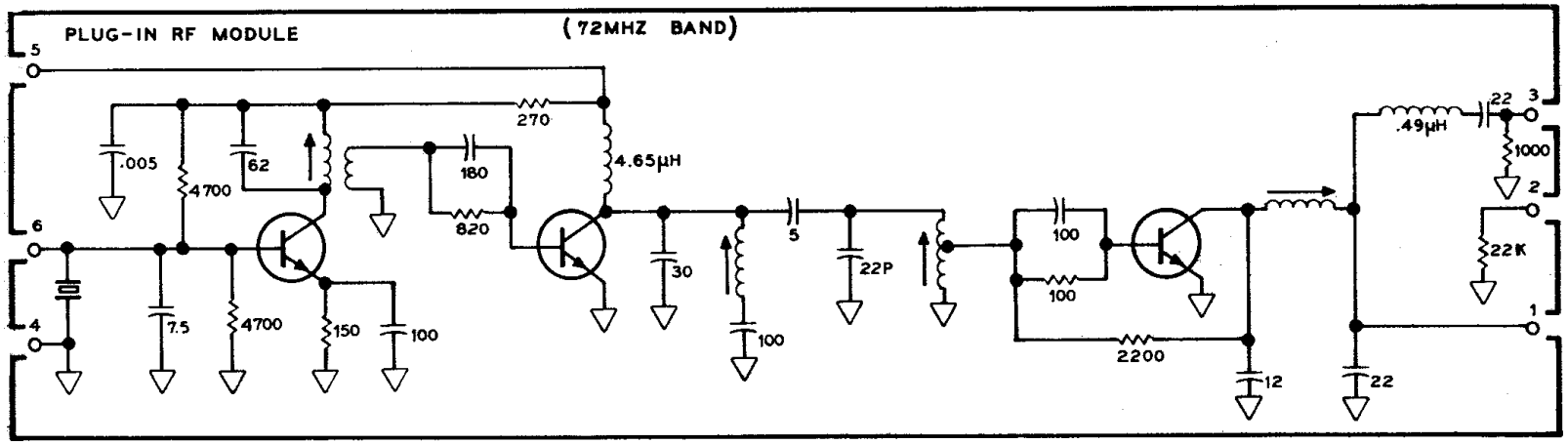
MODEL GDA-1205-D

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 ±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.


PLUG-IN RF MODULE
(27MHZ BAND)
5
6
4
15μH
.001
82
4700
4700
7.5
100
100
470
220
22
2200
62
100
150
3
2.2μH
5600
2
39K
1


PLUG-IN RF MODULE
(53MHZ BAND)
5
6
4
2.2
4.65μH
.005
4700
6
22
4700
7.5
100
100P
130
100
3.3
2200
24
60
62
3
4.49μH
1500
2
22K
1


PLUG-IN RF MODULE
(72MHZ BAND)
5
6
4
270
.005
62
4700
180
820
4.65μH
30
100
5
22P
4700
7.5
150
100
100
100
2200
12
22
.49μH
22
3
1000
2
22K
1