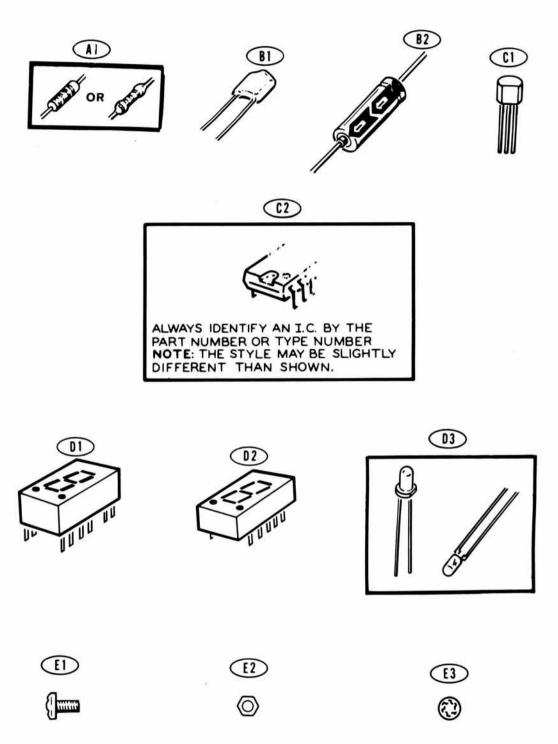
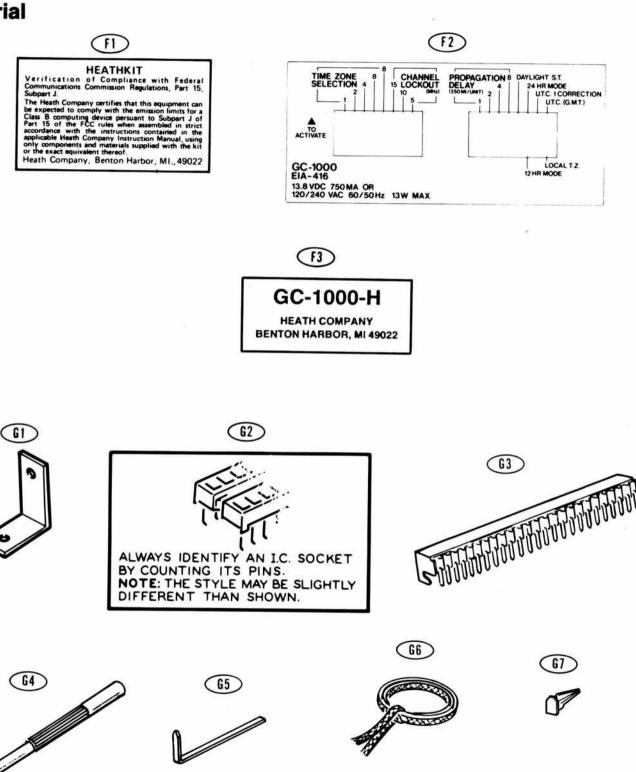
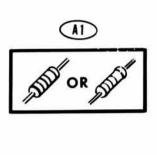
ILLUSTRATION BOOKLET

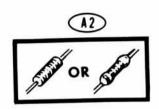
Display Circuit Board Parts Pictorial



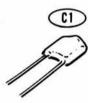


Tone Decoder Circuit Board Parts Pictorial





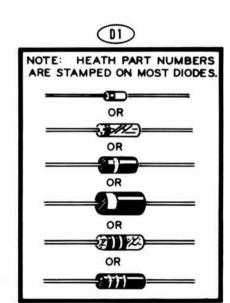




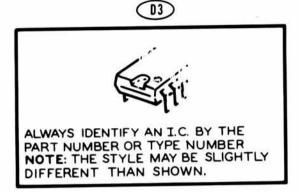




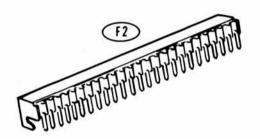


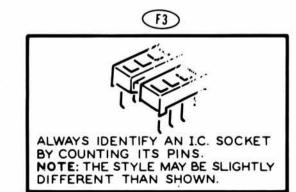






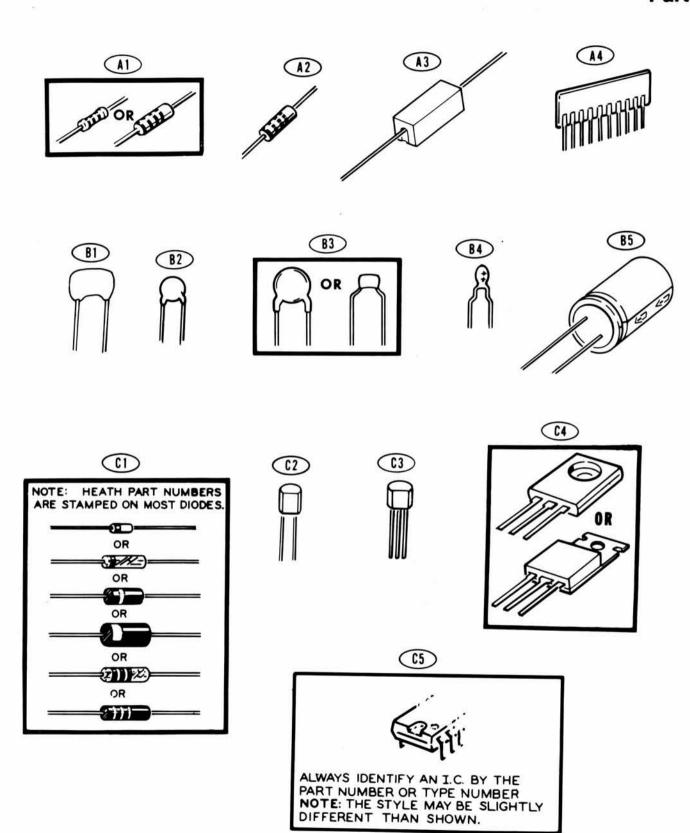


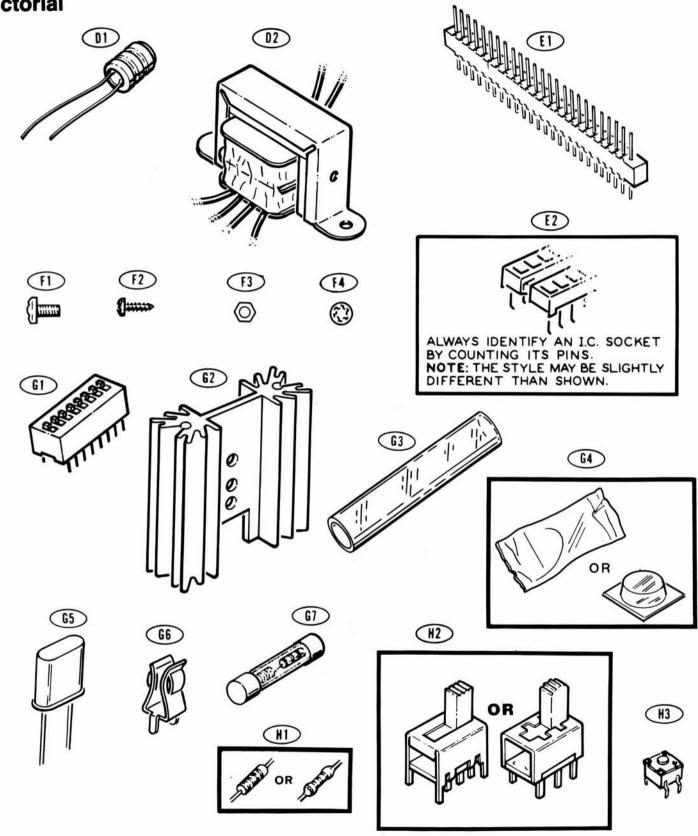


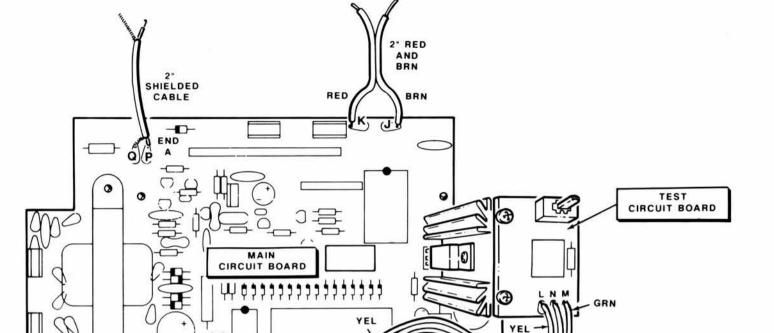




Main and Test Circuit Boards Parts Pictorial

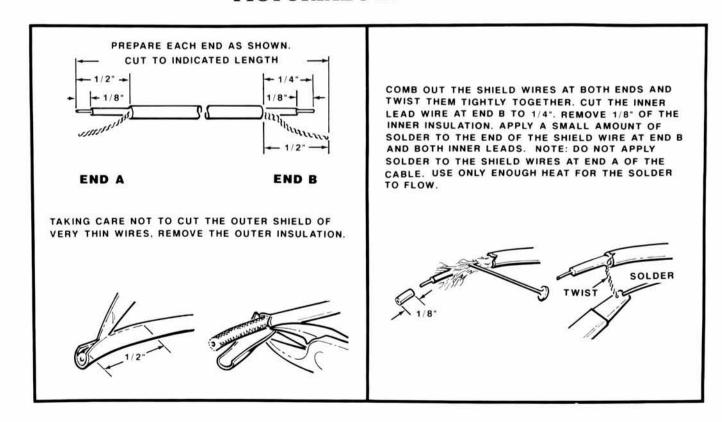




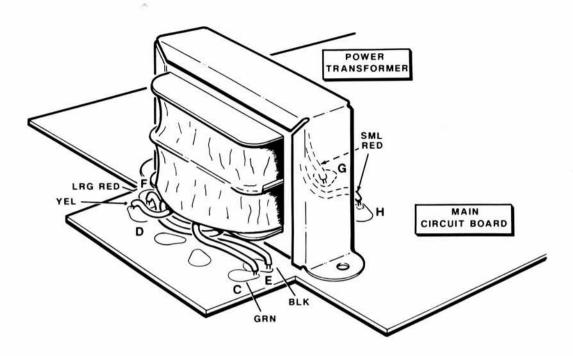


4" ORG, YEL

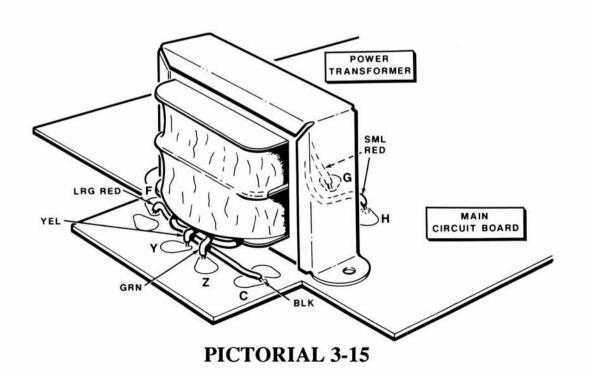
PICTORIAL 3-14



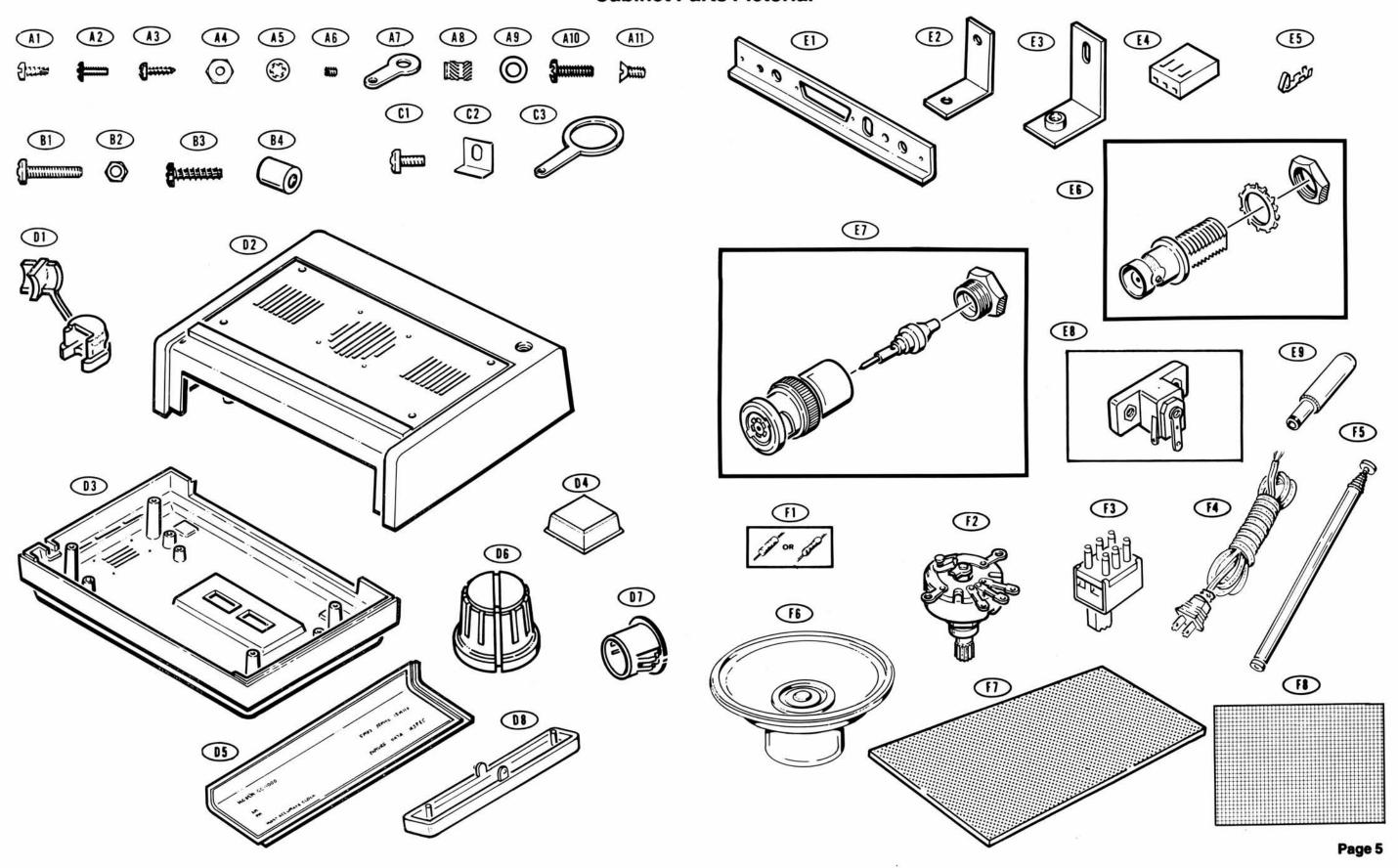
Detail 3-14B

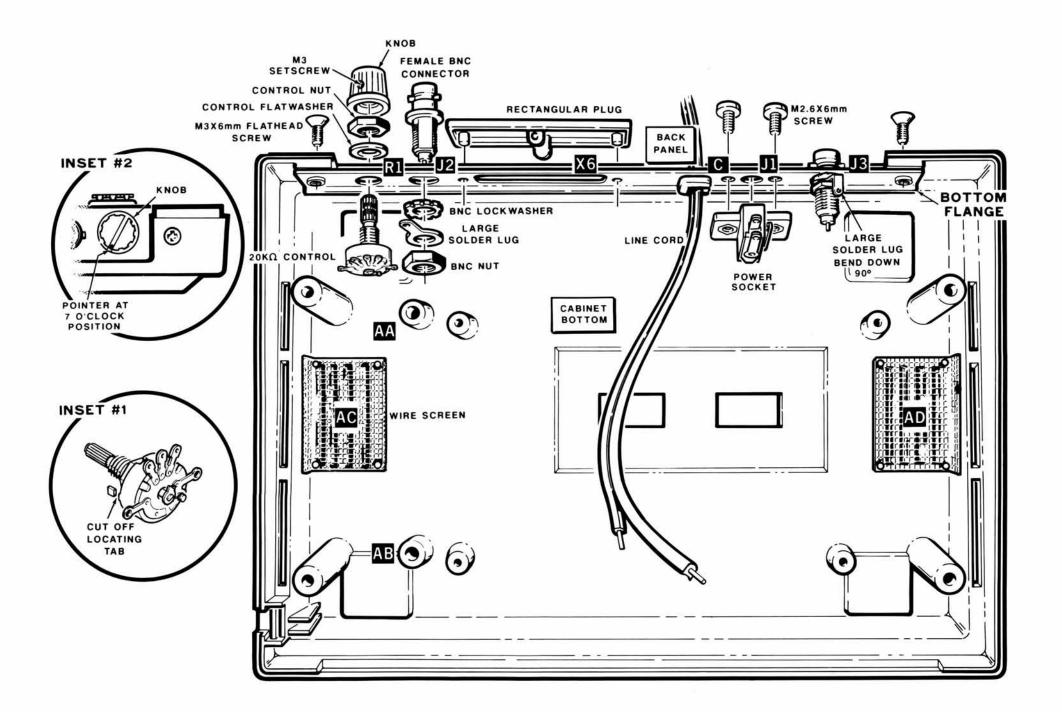


PART B 240 VAC WIRING

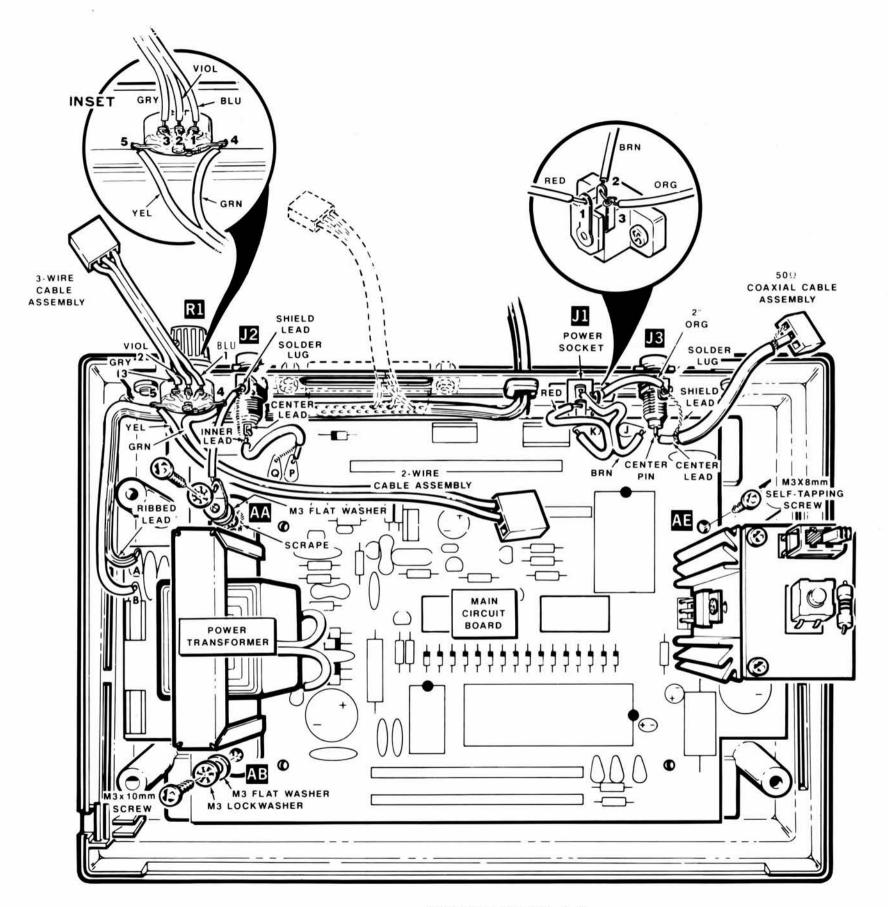


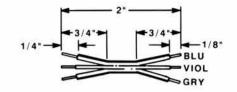
Cabinet Parts Pictorial

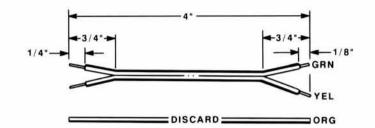




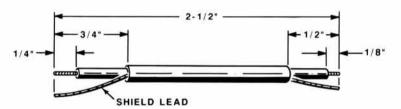
PICTORIAL 4-1







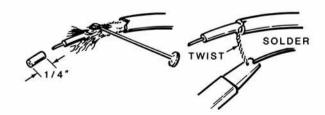
PREPARE EACH END AS SHOWN



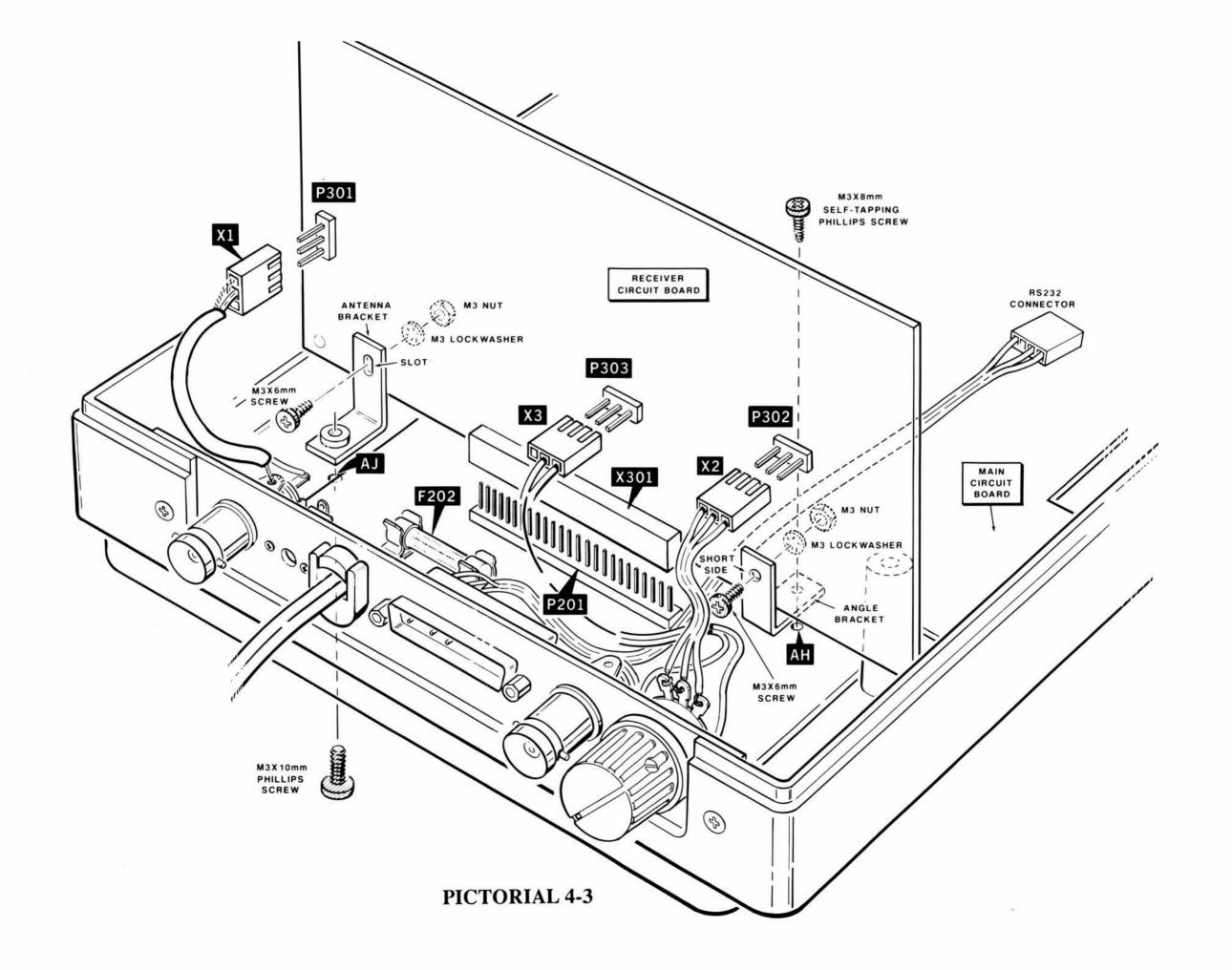
TAKING CARE NOT TO CUT THE OUTER SHIELD OF VERY THIN WIRES, REMOVE THE OUTER INSULATION.

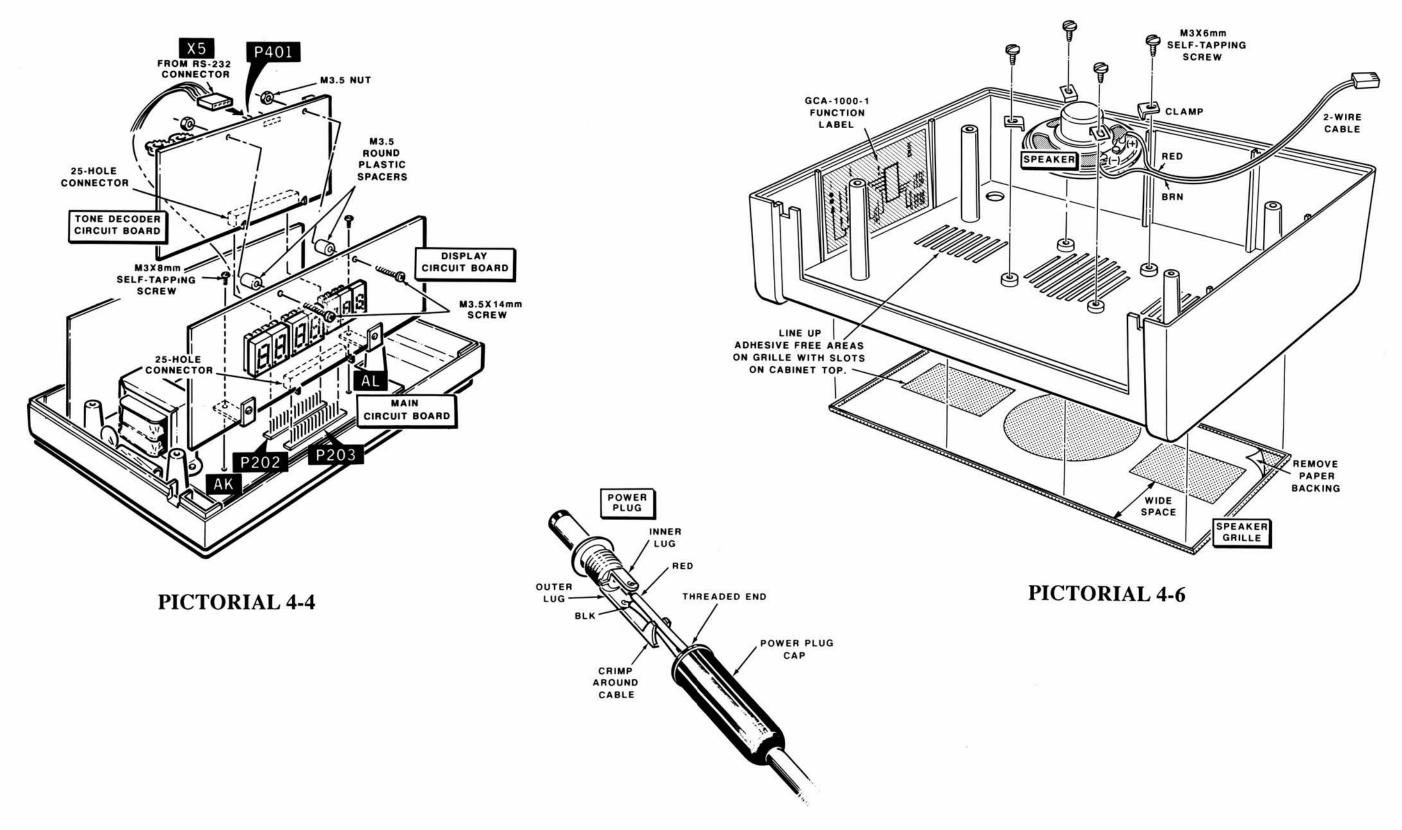


COMB OUT THE SHIELD WIRES AT THE 1-1/4" END AND TWIST THEM TIGHTLY TOGETHER. REMOVE 1/4" OF THE INNER INSULATION. APPLY A SMALL AMOUNT OF SOLDER TO THE END OF THE SHIELD WIRES AND THE INNER LEAD. USE ONLY ENOUGH HEAT FOR THE SOLDER TO FLOW.

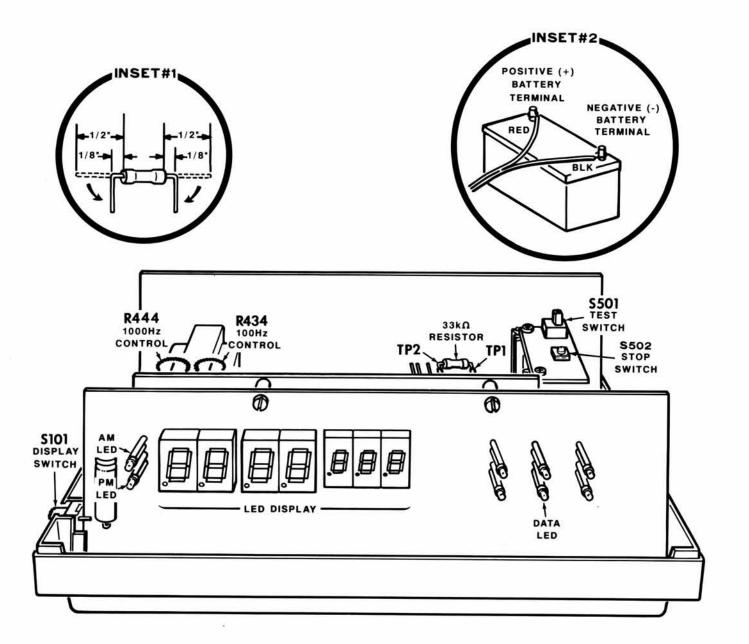


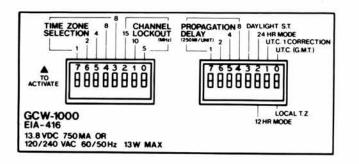
Detail 4-2B



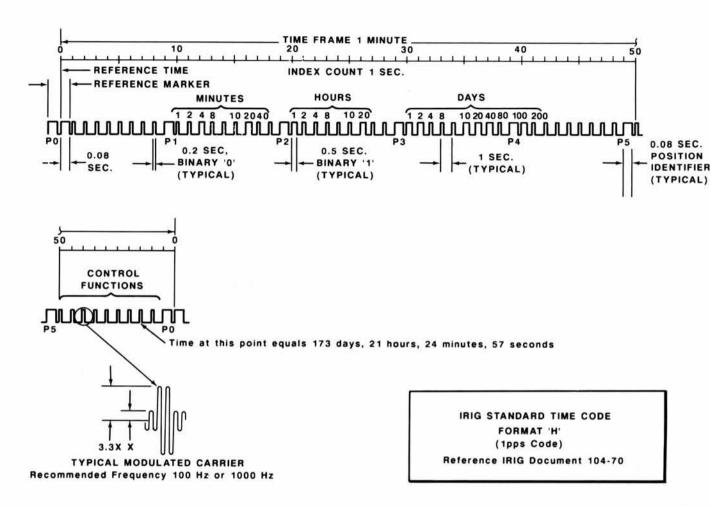


PICTORIAL 4-7

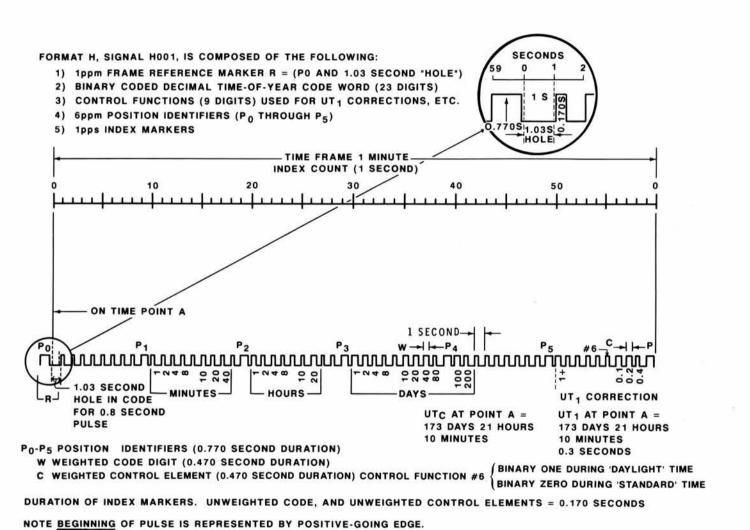




PICTORIAL 5-1



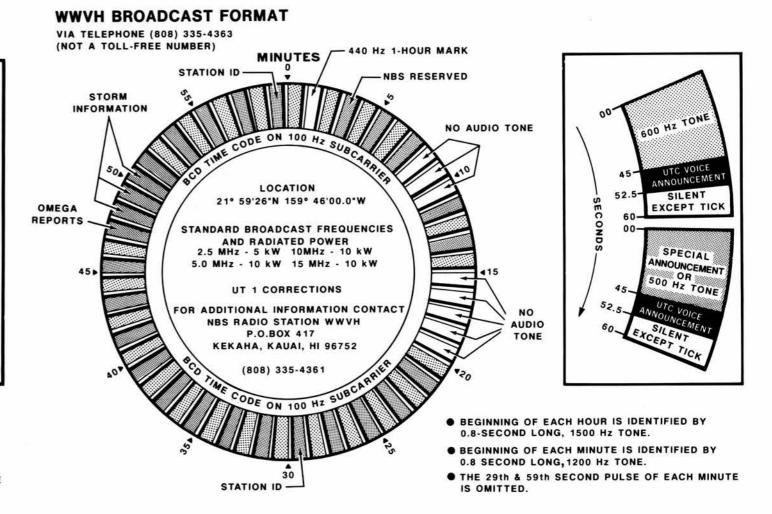
PICTORIAL 7-1



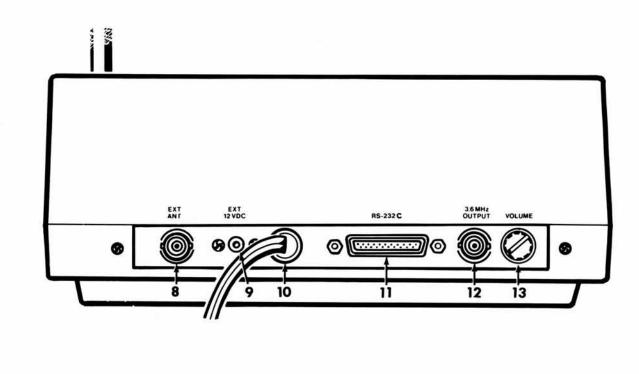
PICTORIAL 7-4

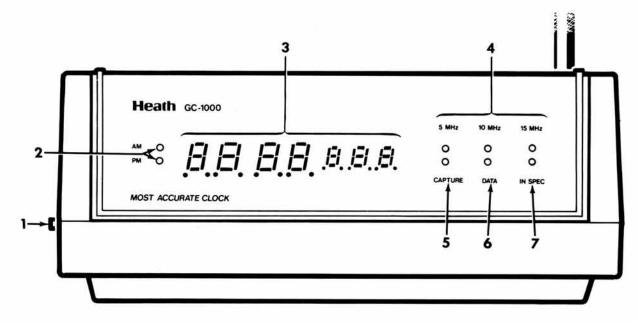
Page 11

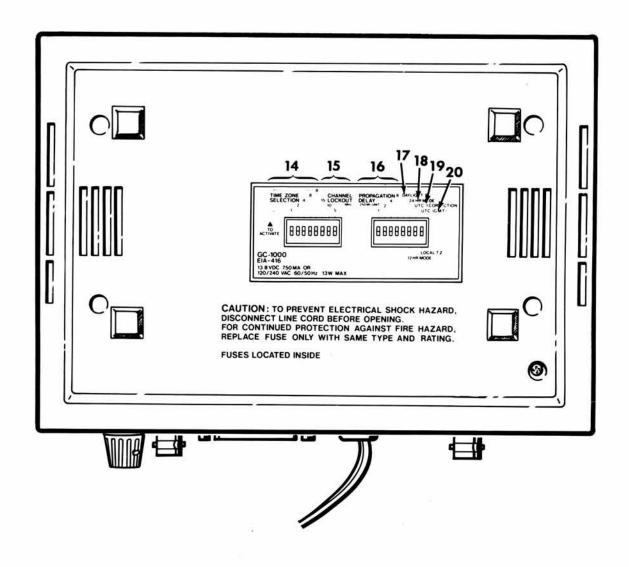
WWV BROADCAST FORMAT VIA TELEPHONE (303) 499-7111 (NOT A TOLL-FREE NUMBER) 440 Hz 1 HOUR MARK NBS RESERVED OR TONE STORM CODE ON 100 HZ SUBCA INFORMATION EXCEPT TICK LOCATION 40° 40 49.0"N; 105° O2 27.0"W UTC VOICE ANNOUNCEMENT AUDIO STANDARD BROADCAST FREQUENCIES AND RADIATED POWER 2.5 MHz - 2.5 kW 10 MHz - 10 kW 5 MHz - 10 kW 15 MHz - 10 kW 600 Hz TONE 20 MHz - 2.5 kW UT 1 CORRECTIONS OMEGA FOR ADDITIONAL INFORMATION CONTACT REPORTS NBS RADIO STATION WWV 2000 EAST COUNTY RD 58 GEO ALERTS FT COLLINS,CO. 80524 (303) 484-2372 CODE ON 100 HZ S • BEGINNING OF EACH HOUR IS IDENTIFIED BY 0.8-SECOND LONG, 1500-Hz TONE. • BEGINNING OF EACH MINUTE IS IDENTIFIED BY 0.8-SECOND LONG, 1000-Hz TONE. • THE 29th & 59th SECOND PULSE OF EACH MINUTE MINUTES



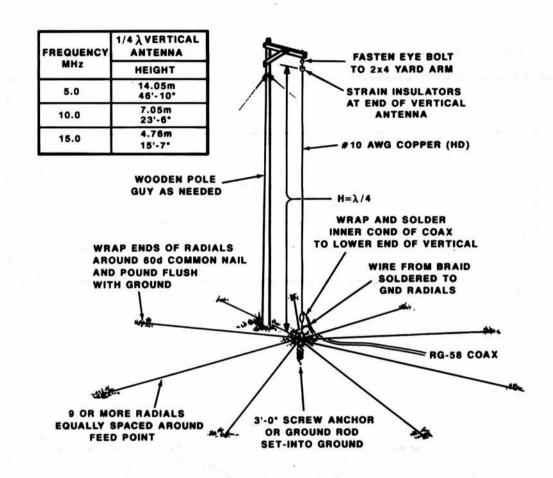
PICTORIAL 7-5





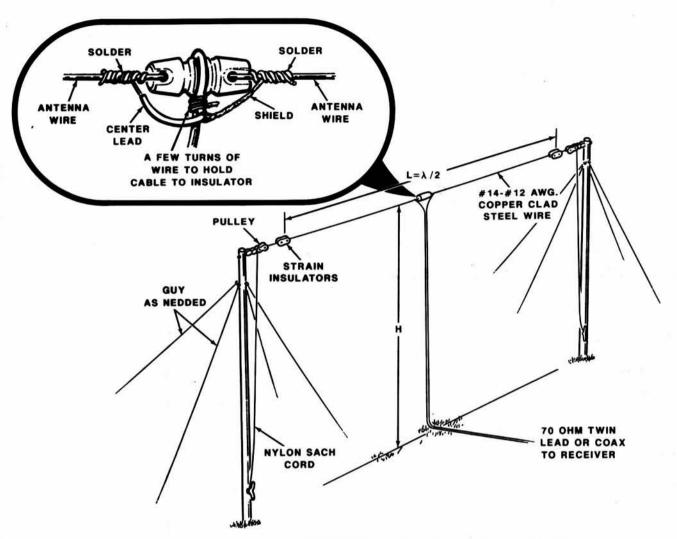


PICTORIAL 8-1



QUARTER-WAVELENGTH ANTENNA

PICTORIAL 8-2

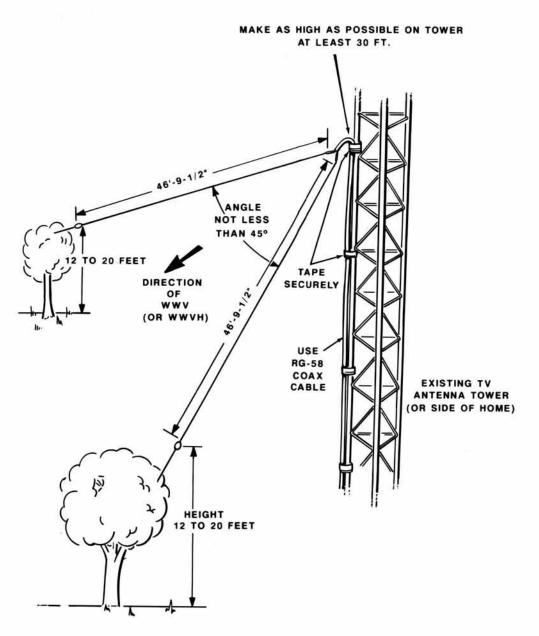


FREQUENCY MHz	1/2 λ HORIZONTAL DIPOLE ANTENNA		
	LENGTH 28.07M 93'-7"	HEIGHT	
		9M TO 15M 30' TO 50'	
10.0	14.05M 46'-10"	7.5M TO 15M 25' TO 50'	
15.0	9.4 M 31'-2"	6.1M TO 15M 20' TO 50'	

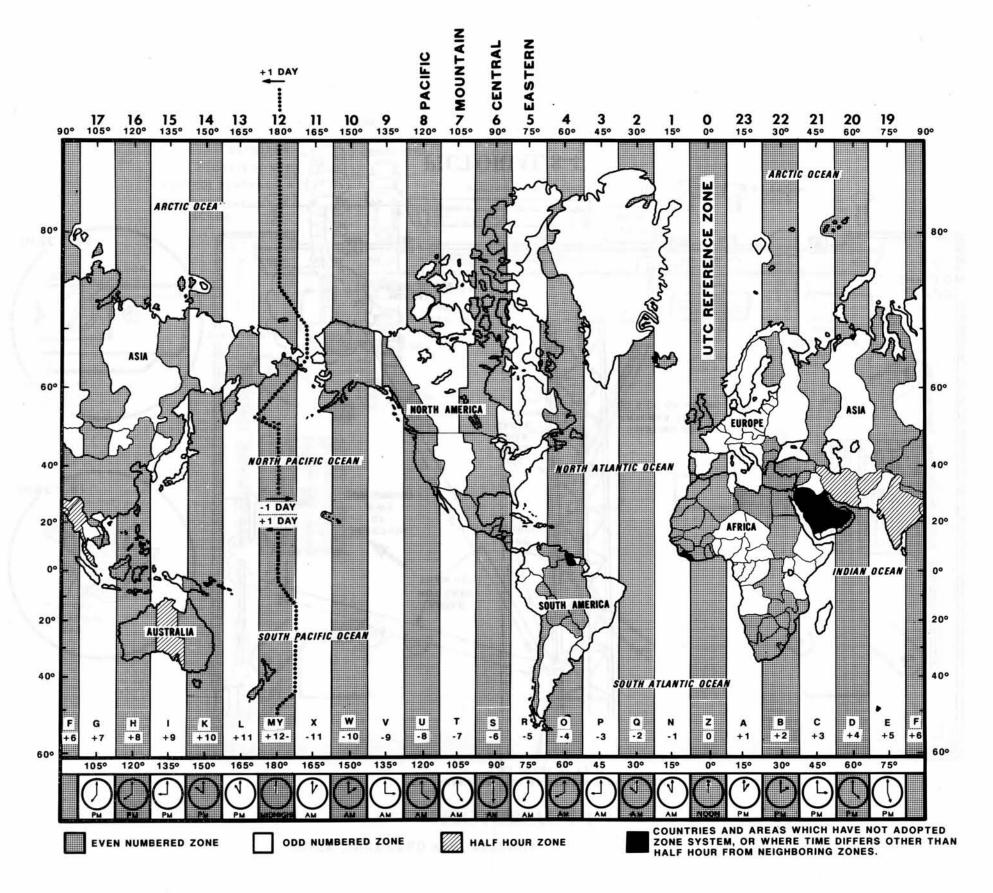
HORIZONTAL HALF-WAVELENGTH ANTENNA

PICTORIAL 8-3

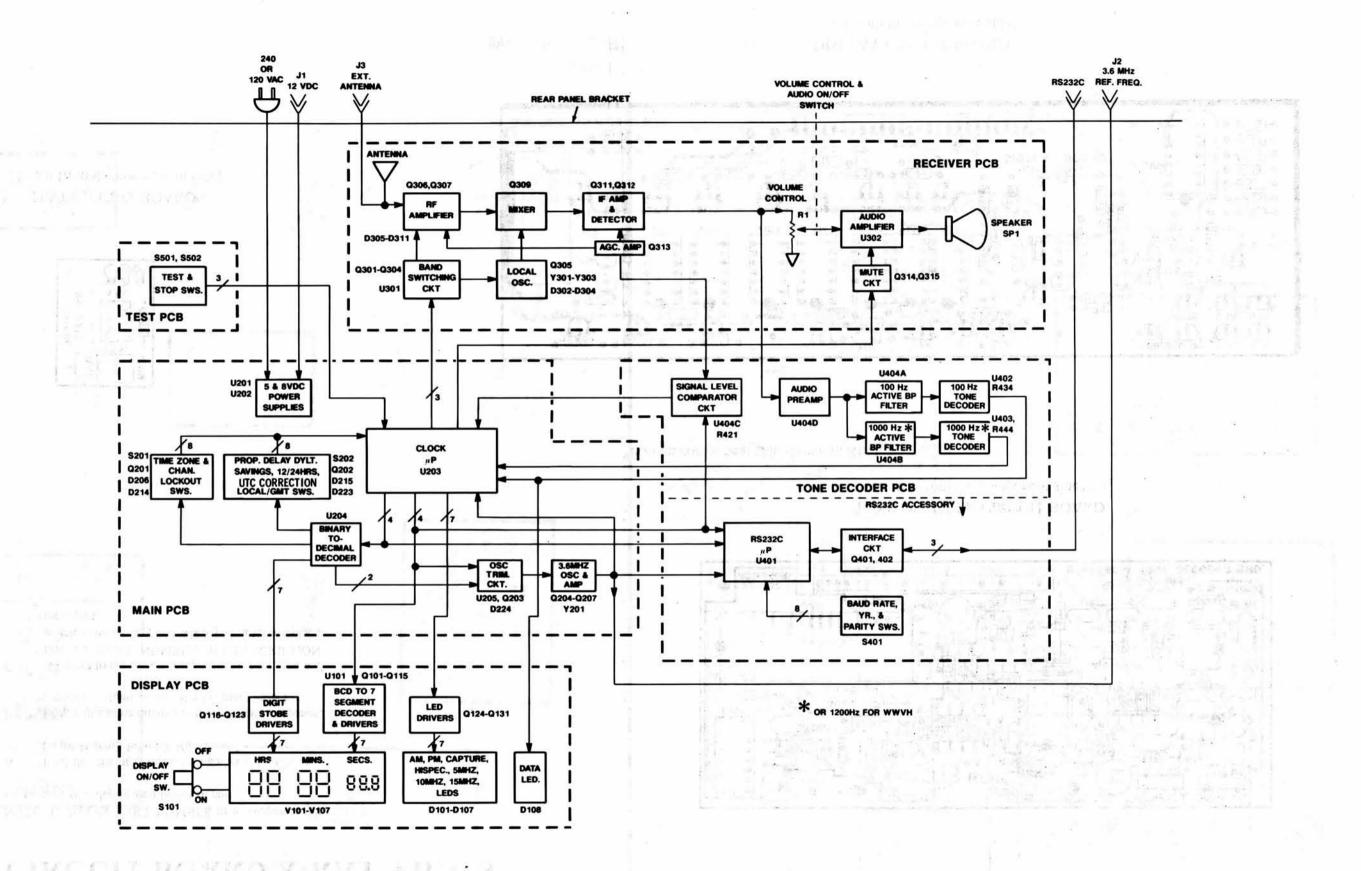
QUICK "INVERTED Vee" ANTENNA



PICTORIAL 8-4



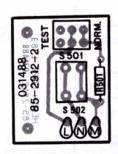
STANDARD TIME ZONES OF THE WORLD REFERENCED TO UTC
PICTORIAL 8-5



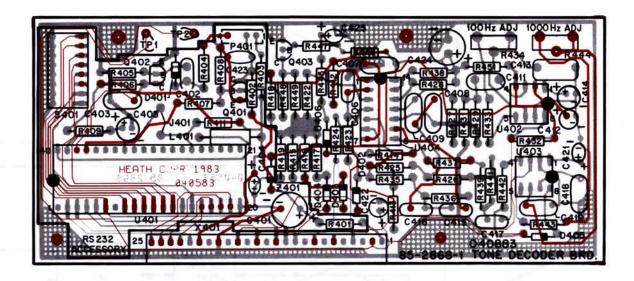
CIRCUIT BOARD X-RAY VIEWS

NOTE: To find the PART NUMBER of a component for the purpose of ordering a replacement part:

- A. Find the circuit component number (U1, C3, etc.) on the "Circuit Board X-Ray View."
- B. Locate this same number in the "Circuit Component Number" column of the "Replacement Parts List."
- C. Adjacent to the circuit component number, you will find the PART NUMBER and DESCRIPTION, which must be supplied when you order a replacement part.

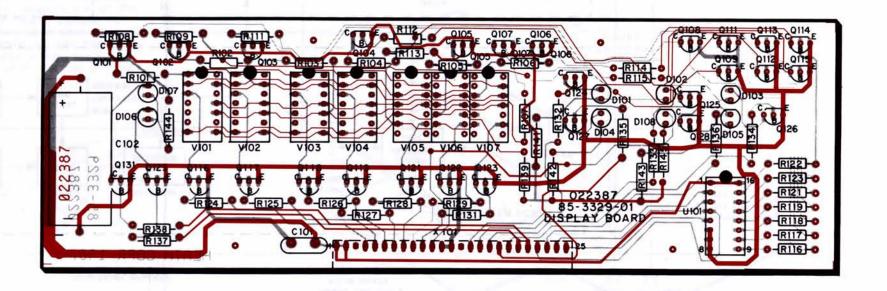


TEST CIRCUIT BOARD (Shown from the component side)

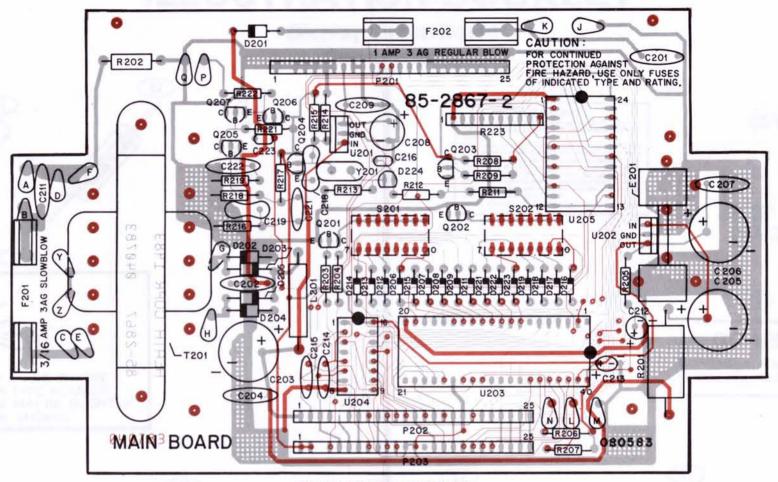


TONE DECODER CIRCUIT BOARD (Shown from the component side*)

*Foil on component side shown in RED.

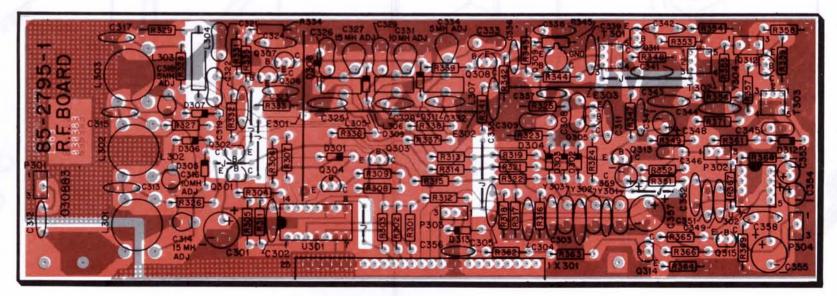


DISPLAY CIRCUIT BOARD (Shown from the component side*)



MAIN CIRCUIT BOARD

(Shown from the component side*)



RECEIVER CIRCUIT BOARD (Shown from the component side*)