Weatheradio 6 AM/FM/Weather Clock Radio
(120-1458) Operation Faxback Doc. # 18922

SETTING THE TIME

Turn the small, inside knob forward until you reach the proper time.

NOTE: Dial has numbers for both AM and PM.

SETTING THE ALARM

Turn the large, outer knob backward until the red arrow in the alarm readout window points to the proper time. Again, note AM and PM markings.

AM/FM RADIO

1. Slide the selector switch forward for FM or backward for AM.

2. Move front panel switch to MANUAL.

3. Tune desired station.

4. Adjust VOLume and TONE.

5. To turn radio off, slide lever to OFF. For alarm operation slide lever to AUTO.

WEATHERADIO

1. Press WEATHER bar.

2. Adjust WEATHER TUNE for station in your area.

3. Adjust VOLume and TONE.

   NOTE: WEATHER over-rides all controls except VOLume. Follow above procedure to get instant weather with radio OFF, or when listening to AM or FM.

WAKE TO BUZZER

1. Slide ALARM Switch back to BUZZER.

2. Use large, outside ALARM SET knob to set wake-up time.

3. Push slide switch to AUTO.

4. For extra five minute sleep periods (up to an hour), press SNOOZE bar.

5. To turn buzzer off, push slide switch to OFF.

WAKE TO MUSIC

1. Slide ALARM switch forward to RADIO.

2. Use large, outside ALARM SET knob to set desired wake-up time.

3. Set the radio to the desired station.

4. Adjust VOLume and TONE.

5. Set slide switch to AUTO.

6. For extra five minute sleep periods (up to an hour), press SNOOZE bar.

7. To turn radio off, set slide switch to OFF.

8. If left on AUTO, radio will turn itself off in one hour.

SLEEP WITH MUSIC

1. Set station, VOLume and TONE.

2. Set slide switch to AUTO for wake-up next morning, or to OFF.

3. Turn white SLEEP knob for up to 60 minutes of music.

PRIVATE LISTENING

Plug earphone or pillow speaker into SPEAKER JACK.

CLEANING

Use a soft cloth lightly dampened with water or a mild soap solution to clean cabinet. Do NOT use solvents or abrasives.

ANTENNAS

The built-in antennas should be adequate in most areas. If an external FM antenna is needed, connect it to ANT and GND terminals on the radio's rear panel.

WEATHER

The WEATHER band monitors continuous broadcasts by the National Weather Service. Check with your local U.S. Weather Bureau office or Federal Communications office to see if there is a station in your area.

Most of these stations operate on a frequency of 162.55 MHz. In locations where there might be interference with another Weather Service station, a second frequency is provided-162.4 MHz. This is why we have included a tuning control for the weather band.

Typical reception distances vary from 10-40 miles depending on local conditions and terrain.

Weatheradio 6 AM/FM/Weather Clock Radio
(120-1458) Specifications Faxback Doc. # 18923

Tuning Range:
AM:.....535 ~ 1605 kHz
FM:.....88 ~ 108 MHz
Weather:.....161.4 ~ 163.5 MHz
Power Output:.....300 mW (Max.)
Speaker:.....4" PM
Antenna:
AM:.....Ferrite Rod
FM:.....Linecord with provision for 300 ohm external antenna.
Dimensions:.....12 3/4" X 6 3/4 X 4 1/2"
Weight:.....4.5 lbs.

GENERAL SPECIFICATIONS

(A) RADIO BANDS

Standard Broadcast	(AM)	535	to	1605	kHz
FM	(FM)	88	to	108	MHz
WEATHER	(WX)	161 40	to	1635	MHz

(B) CLOCK MOVEMENT

1. COPAL GC-1319 (with snooze)

2. ALARM 24 Hours repeat switch (Possible to set time for every 10 Minutes.)

3. SLEEP 0-60 Minutes

4. SNOOZE 5 Minutes

(C) POWER REQUIREMENTS

VOLTAGE AC 120 VOLTS 60 Hz 12 Watts

(D) ANTENNAS

2 3/8" LENGTH FERRITE ROD FOR AM. LINE CORD ANTENNA FOR FM AND WX

(E) EXTERNAL TERMINALS

1. EARPHONE JACK (1/8" DIA)

2. EXTERNAL ANTENNA TERMINAL FOR FM AND VHF

(G) CHASSIS AND CIRCUIT

14 TRANSISTORS. 12 DIODES

TUNING CAPACITOR 2 GANG FOR AM AND 2 GANG FOR FM

3 1/2; 32 OHMS. SPEAKER

BUILT-IN AFC FOR FM

(H) DIMENSIONS AND WEIGHT

CABINET DIMENSIONS: 4 1/2" (H) X 12 3/4" (W) X 6 3/4" (D)

WEIGHT 4.5 lbs.

AM TUNER SECTION Modulation 400 Hz, 30%

Frequency Range		525-1650 kHz	535-1605kHz
Sensitivity	600 kHz	250 microV/m	700 microV/m
	1000 kHz	250 microV/m	700 microV/m
	1400 kHz	250 microV/m	700 microV/m
Usable Sensitivity for dB S/N	600 kHz	700 microV/m	1300 microV/m
	1000 kHz	700 microV/m	1300 microV/m
	1400 kHz	700 microV/m	1300 microV/m
Tracking Error (Frequency Deviation)	600 kHz	0 kHz	+/- 35
	1400 kHz	0 kHz	+/- 100
Image Rejection Ratio	1400 kHz	33 dB	28 dB
IF Rejection	600 kHz	25 dB	20 dB
Output Power (Input 5 mV/m)	1000 kHz	0.3W	0.25W

Selectivity +/- 10 kHz	1000 kHz	17 dB		13 dB
Bandwidth -6 dB	1000 kHz	7 kHz		4.5-9 kHz
THD Distortion	1000 kHz	2%		8%
A.G.C. -10 dB	1000 kHz	45 dB		35 dB
AM Beat 5 mV/m	910 kHz	7%		15%
FM MONO 400 Hz. 22.5 kHz DEVIATION				
Frequency Range		87-109 MHz		88-108 MHz
Usable Sensitivity (S/N 30 dB) Antenna Terminal Voltages	90 MHz	10 microV		17.5 microV
	98 MHz	10 micro		17.5 microV
	106 MHz	10 micro		17.5 microV
Tracking Error (Frequency Deviation)	92 MHz	0 kHz		+/- 1MHz
	104 MHz	0 kHz		+/-1 MHz
Full Limiting @ 1 mV (-3 dB)	98 MHz	200 microV		300 microV
AFC Holding Range (98 MHz - 3 dB, 1000 microV Input)	UPPER SIDE	400 kHz		200 kHz
	LOWER SIDE	400 kHz		200 kHz
Image Rejection Ratio	106 MHz	25 dB		20 dB
If Rejection Ratio	90 MHz	50 dB		40 dB
Alternate Channel Selectivity (at 98 MHz)	100 microV INPUT	20/20 dB		7/7 dB

WX DEVIATION: 1000 Hz, 5 kHz)

Frequency Range		161.0-164-164 0MHz	161.4-163.5MHz
Max. Sensitivity (S/N 30 dB) Antenna Terminal Voltages	162.55 MHz	5 micro/V/dB	15 microV/dB
Usable Sensitivity (S/N 30 dB)	Antenna Terminal Voltages	162.55 MHz	15 microV 35 microV

(br/all-02/08/96)
LN-03/04