

The   
**STALKERS**  
**OWNER'S GUIDE**

*Congratulations*

YOU HAVE JUST PURCHASED THE VERY BEST  
AM/SSB BASE/MOBILE CITIZENS BAND  
TWO WAY RADIO

  
**STALKER XX**



**ONE-YEAR FULL WARRANTY**

Stalker Communications Division



American Radio Corporation  
Indianapolis, Indiana

Keep  
in  
touch

## SECTION 1 GENERAL INFORMATION

### DESCRIPTION

Your STALKER XX, represents the most advanced AM/SSB Base/Mobile Station type radio ever designed for use in the Citizens Band Radio Service. It will operate on any of the 40 frequencies designated as citizens band channels by the Federal Communications Commission. Your STALKER XX features a frequency synthesizing circuit with PHASE LOCK LOOP techniques to assure ultraprecise frequency control. This radio has been Type Accepted and Type Certified by the F.C.C.

### IMPORTANT!!

For your own protection, we urge you to record the serial number of this unit in the space provided. You'll find the serial number on the back panel of the unit.

SERIAL NUMBER \_\_\_\_\_

### WARNING

**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS  
TRANSCEIVER TO RAIN OR MOISTURE.**

## SPECIFICATIONS

### GENERAL

Channels	40
Frequency Range	26.965 MHz to 27.405 MHz
Frequency Control	PLL Synthesized
Antenna Impedance	50 ohm
Power Input	117V AC or 13.8V DC
Accessories	DC power cord, detachable dynamic microphone, microphone hanger, mounting bracket
Size	15"(W) x 12"(D) x 5-½"(H)
Weight	12 pound

### TRANSMITTER

Output Power	AM 4 watts SSB 12 watts PEP
Emission Type AM	6A3
Emission Type SSB	3A3J
Hum and Noise	Better than -60 dB
Frequency Tolerance	0.003%
Modulation Percentage (Peak)	100%

### RECEIVER

Sensitivity at 10 dB S+N/N	AM 0.5 $\mu$ V SSB 0.25 $\mu$ V
Sensitivity for 500 mW Audio Output	AM 0.25 $\mu$ V SSB 0.15 $\mu$ V
Squelch Threshold	AM 0.5 $\mu$ V SSB 0.5 $\mu$ V
Squelch Deepest Point	1000 $\mu$ V
"S" Meter S-9	100 $\mu$ V
Delta Tune/Clarifier	$\pm$ 1.25 kHz
Maximum AF Output Power	4 watts
AF Output Power/10% Distortion	3 watts
Selectivity BW @6 dB Down	6 kHz
Adjacent Channel Rejection	-55 dB
Image Rejection	Greater than -40 dB
Speaker Impedance	8 ohms

### PUBLIC ADDRESS

Output Power @ 10% Distortion	3.0 watts
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## **WARNING**

Any adjustments or alterations which would alter the performance of the transceiver's original F.C.C. Type Acceptance or which would change the frequency determining method are strictly prohibited.

Operation of this equipment requires a valid station license issued by the Federal Communications Commission. Do not transmit with your equipment until you have received your license or without complying with the procedures explained on F.C.C. temporary license Form 555-B. You may use Form 555-B as a temporary permit while your regular Form 505 application is being processed by the F.C.C. Illegal operation can result in severe penalties. Be certain that you have read Part 95 of the Plain English Rules - Citizens Band Radio Service before operating your radio. F.C.C. Forms 505 and 555-B and a copy of Part 95 of the Commission's Rules are packed with the transceiver for your convenience.

Your Station License is to be posted in accordance with CB Rules 34 and 44.

F.C.C. Rules require that ALL transmitter adjustments other than those supplied by the manufacturer as front panel operation controls be made by or under supervision of the holder of an F.C.C.-issued 1st or 2nd class radio operator license.

Replacement or substitution of Crystals, Transistors, IC, Regulator, Diodes, or any other part of a unique nature, with parts other than those recommended by us, may cause violation of the technical regulations of Part 95 of the F.C.C. Rules or violation of Type Acceptance requirements of Part 2 of the Rules.

## **LICENSING PROCEDURES**

The Citizens Band (CB) Radio Service is under the jurisdiction of the Federal Communications Commission (F.C.C.). Therefore, the operator of a CB transceiver must be in possession of a valid FCC permit or license. The steps to legally operate your Stalker transceiver are:

- 1) For immediate operation; complete the Form 555-B, Temporary Permit. Keep it with your unit.
- 2) FCC Form 505, Application for Class C or D Station License in the Citizens Radio Service is the document to be completed to obtain your license which is valid for 5 years. Mail the application to the address indicated on the form. DO NOT send it to the manufacturer.

These forms are packaged as part of the documents provided with each radio. Every CB operator must read and understand the FCC part 95 prior to operation of a radio.

## INTRODUCTION

This radio has been designed to provide high level performance in the Citizens Band Radio Service, which is comprised of the following frequency assignments:

Channel	Channel Frequency in MHz	Channel	Channel Frequency in MHz
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

To insure that you realize the maximum performance from this radio, please read the following descriptions and operating instructions carefully.

## **SECTION 2 INSTALLATION**

### **TRANSMISSION LINE**

To connect an antenna to the unit, a 50-ohm coaxial lead-in wire is required. Most CB antennas are pre-tuned at the factory and designed for 50-ohm lead-in. The recommended coaxial cable is RG-58/U if the lead-in length is 50 feet or less. For lead-in length over 50 feet, RG-8/U is recommended. The transmission cable must be terminated in a PL-259 type connector at the radio.

### **BASE STATION ANTENNA**

Since the maximum allowable power output of the transmitter is limited by the F.C.C., the antenna is a very important factor affecting transmission distance. It is for this reason that we strongly recommend that you install only a quality antenna in your new citizens band system. You have just purchased a superior transceiver. Don't diminish its performance by installing an inferior antenna.

Only a properly matched antenna system will allow maximum power transfer from the 50-ohm transmission line to the radiating element. Most quality antennas previously suitable for use on AM also will be satisfactory for SSB. Your STALKER dealer is qualified to assist you in the selection of the proper antenna to meet your application requirements.

The radio may be used with any type of 50-ohm station antenna. A ground plane vertical antenna will provide the most uniform coverage.

For point-to-point operation, where both stations are fixed, a directional beam will usually increase communications range, since this type of antenna concentrates transmitted energy in one direction. The beam antenna allows the receiver to "listen" in only one direction, thus reducing interfering signals.

Antenna height is an important factor when maximum range is desired. Keep the antenna clear of surrounding structures or foliage. Please refer to CB Rule 18 with regard to antenna height limitations.

### **BASE STATION INSTALLATION**

For base station operation, simply connect the antenna lead-in to the connector on the back of the radio and plug AC power plug into any AC outlet. Make sure the DC/AC Switch on the rear panel is in the AC position.

### **MOBILE STATION ANTENNA**

For automobile installation, the whip antenna may be used with good effect. The most efficient and practical installation is a full quarter wave whip antenna mounted on the rear deck or fender top midway between the rear window and bumper.

A short "loaded" whip antenna is more convenient to install on your automobile, although the efficiency is less than a full quarter wave whip antenna.

For marine installation, consult your dealer for information regarding an adequate grounding system and prevention of electrolysis between fittings in the hull and water.

## **GROUND INFORMATION:**

**NOTE:** This transceiver may be installed and used in any 12-volt DC negative or positive ground system vehicle.

Most newer U.S. and foreign made cars and small trucks use a negative ground system, while some older cars and some newer large trucks may use a positive ground system.

A negative ground system is generally identified by the (-) battery terminal being connected to the vehicle motor block, but if you cannot determine the polarity system of your vehicle, it is suggested that you consult your vehicle dealer for definite information.

## **NEGATIVE GROUND SYSTEM**

If you are operating on a negative ground system, connect the red DC power cord from the transceiver to the positive, or (+), battery terminal or other convenient point and connect the black power lead to the chassis or vehicle frame, or (-) battery terminal.

## **POSITIVE GROUND SYSTEM**

If you are operating on a positive ground system, connect the black DC power cord from the transceiver to the negative, or (-), battery terminal or other convenient point, and connect the red power lead to the chassis or vehicle frame, or (+) battery terminal.

## **CONNECTING THE POWER CORDS**

With regard to the connection of the power cords, it may be possible or desirable to connect the (red lead for negative ground system) or (black lead for positive ground system) to the ignition switch accessory terminal so that the transceiver is automatically turned off when the ignition switch (key) is turned off.

Alternately, the power lead may be connected to an available terminal on the fuse block or even to a point in the wiring harness. Care must be taken, however, to guard against a short circuit condition. When in doubt, please contact your vehicle dealer for specific information for your vehicle.

## MOBILE STATION INSTALLATION

Plan the location of the transceiver and microphone bracket before starting the installation. Select a location that is convenient for operation and does not interfere with the driver or passenger in the vehicle. The radio should be securely fastened to some solid face.

## MOBILE IGNITION INTERFERENCE

Engine ignition interference should not be a problem, and vehicles equipped with standard broadcast radios will have enough suppression to eliminate ignition interference. If interference is present, any skilled auto radio repairman should be able to eliminate it for you.

## INSTALLATION ADJUSTMENT

### CAUTION

The transmitter Voltage Standing Wave Ratio (V.S.W.R.) measurement must be performed prior to the use of the transmitter. A V.S.W.R. (or SWR) ratio in excess of 2:1 may damage the transmitter.

The RF (Radio Frequency) output circuit of the STALKER XX transmitter has been adjusted at the factory to operate in any 50-ohm antenna system. Therefore, you don't have to tune the radio. However, you may have to adjust your antenna to get the lowest possible Standing Wave Ratio. The lowest SWR means that the antenna is operating at maximum efficiency. The ideal is 1:1. (SWR of 1.5:1 or less is highly recommended.)

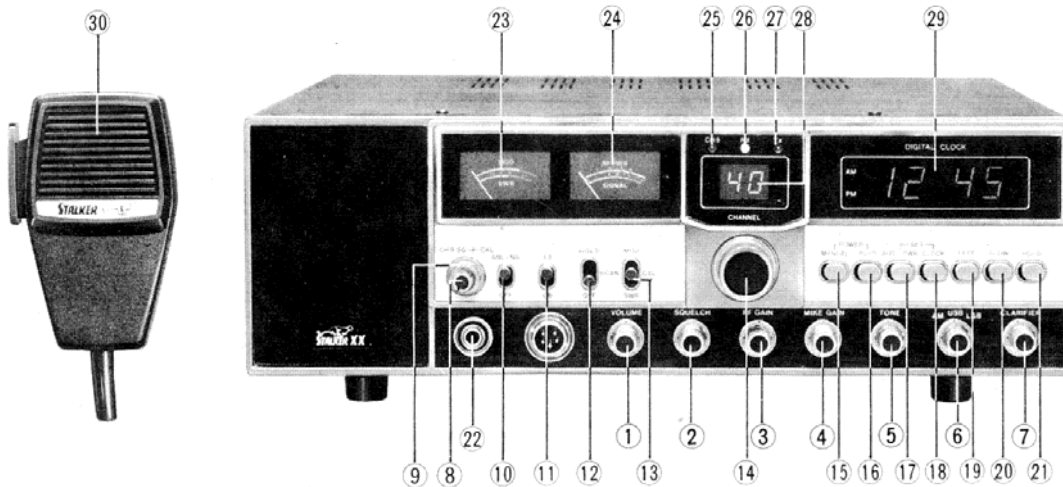
The recommended method of antenna tuning is to use the built-in VSWR meter or an in-line watt-meter to adjust the antenna for minimum reflected power on Channel 19 in the AM mode. When the antenna system is adjusted for proper matching in the AM mode, no further adjustment for SSB will be necessary.



## SECTION 3

### OPERATING INSTRUCTIONS

#### CONTROLS, INDICATORS, CONNECTORS AND THEIR FUNCTIONS



#### FACE PANEL

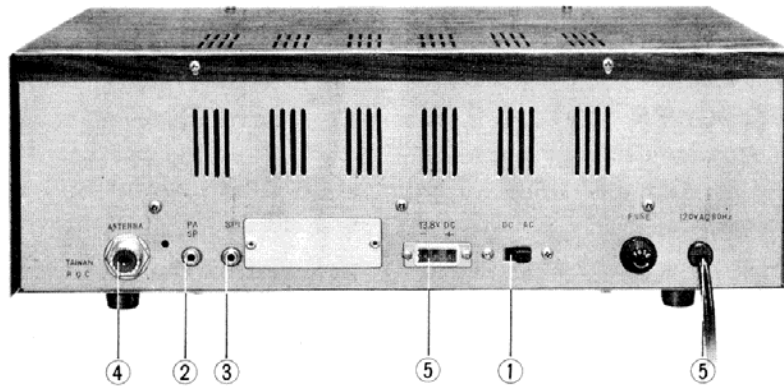
1. **VOLUME:** This control is used to adjust the output level of audio signal to the speaker.
2. **SQUELCH:** This control operates in all modes except the CH9 SCAN mode. This control is used to cut off or eliminate receiver background noise in the absence of an incoming signal. For maximum receiver sensitivity, it is desired that the control be adjusted only to the point where the receiver background noise or ambient background noise is eliminated. Turn the control fully counterclockwise, then slowly rotate clockwise until the receiver noise disappears. Any signal to be received must now be slightly stronger than the average received noise. Further clockwise rotation will increase the threshold level which a signal must overcome in order to be heard. Only strong signals will be heard at a maximum clockwise setting.
3. **RF GAIN:** This control adjusts the strength of the incoming signal. When too strong a signal comes in, turn counterclockwise to set the desired level. If the signal you receive is weak, turn clockwise. To obtain calibration of the "S" meter, RF GAIN CONTROL must be in the full clockwise position.
4. **MIKE GAIN:** This control is used to adjust, as required, microphone input sensitivity for optimum amount of modulation in the transmit mode. When operating this control, set the SWR/CAL/MOD switch to the MOD position and note the effectiveness of this control on the meter. During PA mode of operation, this control adjusts the speaker volume.
5. **TONE CONTROL:** This control is used to adjust the bass/treble quality of your audio sound.

6. **MODE SELECTOR SWITCH:** This switch allows selection of AM, USB or LSB mode of operation. Unless the station with which communication is desired is equipped with SSB, the AM mode is normally used. The mode selector switch changes the mode of operation of both transmitter and receiver simultaneously. An explanation of how to determine which mode to use is contained in the Operating Procedure paragraphs, which follow.
7. **CLARIFIER:** This control allows variation of receiver operating frequencies above and below the assigned frequency (within legal limitations). Although this control is intended primarily to tune in SSB signals, it may be used to optimize AM signals as described in the Operating Procedure paragraphs, which follow.
8. **CH9 SQUELCH:** Adjusts the threshold level of the squelch for channel 9 scanning system. Adjustment of this squelch control is not the same from channel to channel. This control should be adjusted for proper squelch action on the channel with the least background noise level, usually CH9 or weaker signals may fail to activate the speaker, and the operator may not become alerted to their presence.
9. **SWR/CAL CONTROL:** Calibrates SWR meter to measure correct SWR (Standing Wave Ratio). To calibrate, with MOD/CAL/SWR switch in CAL position, depress "push-to-talk" switch on microphone and with no voice input to microphone adjust SWR/CAL control until meter pointer indicates CAL position on meter scale. Meter is now calibrated to read "SWR" when MOD/CAL/SWR switch is placed in the "SWR" position.
10. **ANL/NB SWITCH:** When the switch is placed in the ANL/NB position, the Automatic Noise Limiter and the RF Noise Blanker circuits are activated. The ANL reduces hash type noise and NB eliminates repetitive noise such as ignition interference.
11. **PA-CB SWITCH:** This switch selects the functional mode of operation. The PA function should not be used unless an external speaker is connected. In the CB position, the PA function is inoperative and the radio will transmit and receive on the selected frequency.
12. **HOLD/SCAN/OFF SWITCH:** In the SCAN position, the scanning system will search for emergency channel, CH9, and if there is activity on channel 9, the scanner will lock to channel and remain until the activity is terminated. In the HOLD position, unit will transmit or receive on the emergency channel CH9.
13. **MOD/CAL/SWR SWITCH:** Selects the meter modes of operation. In the MOD position, the meter indicates average percentage of modulation and RF power output during transmit, and relative signal strength during receive. In the CAL position, SWR meter can be calibrated; see SWR CAL control. In the SWR position, the meter indicates antenna efficiency during the transmission.
14. **CHANNEL SELECTOR SWITCH:** This switch selects the desired channel for transmission and reception on both AM and SSB. All channels, except channel 9, may be used for communications between stations operating under different licenses. Channel 9 has been reserved by the F.C.C. for emergency communica-

tions involving the immediate safety of individuals or immediate protection of property. Channel 9 also may be used to render assistance to a motorist. This is an F.C.C. rule and applies to both AM and SSB modes of transmission.

15. **POWER/MANUAL:** Depress switch to turn on manually. Release switch to turn off. It does not cut the power to the "CLOCK DISPLAY" unless the AC power is disconnected.
16. **POWER/AUTO:** Automatically turns radio ON 60 minutes at preset time. To activate this features, push-in this switch.
17. **SET/AUTO POWER SWITCH:** This switch must be depressed to set the AUTO/POWER check function of the unit. This will allow the operator to preselect an alarm time so that the radio will automatically turn on for 60 minutes at that preselect time.
18. **SET/CLOCK SWITCH:** Used in conjunction with the fast or slow advance switch, set the LED digital clock to the correct time. To activate the switch, simply push it in.
19. **CLOCK/FAST ADVANCE SWITCH:** Push in to advance the LED digital clock time. The fast advance function will advance the clock display approximately 60 minutes per second when held in.
20. **CLOCK/SLOW ADVANCE SWITCH:** Push in to advance the LED digital clock time. The slow advance function will advance the clock display approximately 2 minutes per second when held in.
21. **CLOCK/HOLD SWITCH:** When depressed, holds the time display on the LED clock readout until release. This switch may be used when setting the exact time on the clock display.
22. **PHONE JACK:** An 8 ohm, 3.5 watt headphone set may be connected for private listening. To use this feature, simply connect the headphone plug into the jack on the front panel.
23. **MOD/CAL/SWR METER:** Indicates average percentage of modulation, Standing-Wave-Ratio and Calibration level. (see paragraph 9 and 13)
24. **RF POWER/SIGNAL METER:** Indicates relative transmitter power output when transmitting, and input signal strength when receiving.
25. **CH9 INDICATOR:** This LED indicator lights when the HOLD/SCAN/OFF switch is placed in HOLD position.
26. **RX INDICATOR:** This LED indicator lights in green when the microphone button is released and the receiver is in operation.
27. **TX INDICATOR:** This LED indicator lights in red when the microphone button is pressed and the transmitter is in operation.
28. **CHANNEL DISPLAY INDICATOR:** The selected channel number appears on the LED readout. When the HOLD/SCAN/OFF switch is placed in the HOLD position, the LED readout is blanked.
29. **CLOCK/LED DISPLAY:** Displays the correct time either in AM or PM.

30. **PRESS-TO-TALK MICROPHONE:** The receiver and transmitter are controlled by press-to-talk switch on the microphone. Press the switch to activate the transmitter; release the switch to receive. When transmitting, hold the microphone two inches from the mouth and speak clearly in a normal voice. The microphone provided with your radio is a detachable low impedance dynamic type.



#### REAR PANEL

1. **DC/AC POWER SUPPLY SELECTOR SWITCH:** IMPORTANT! This radio is equipped with the capability to operate on two power sources. One power source accommodates the 117 Volt AC household power for base station operation. The other power source accommodates the 13.8 Volt DC power available in vehicles for mobile operation. The Power Supply Selector Switch must be in the proper position (AC or DC) for the power source being used.  
  
(Note: When the power supply selector is not in the proper position, the STALKER XX will be inoperative. However, having the switch in the wrong position will not damage the transceiver.)
2. **PUBLIC ADDRESS:** An external 8 ohm, 4.0 watt speaker may be connected to the PA Speaker jack when this unit is used as a public address system. The speaker should be directed away from the microphone to prevent acoustic feedback. Physical separation or isolation of the microphone and speaker must be employed when operating the PA at high output levels.
3. **EXTERNAL SPEAKER:** The EXT. SP jack is used for remote receiver monitoring. The external speaker should have 8 ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.
4. **ANTENNA CONNECTOR:** This female connector permits connection of the transmission line cable male connector (PL-259) to the transceiver.
5. **POWER:** Your STALKER XX may be powered by either the 117V AC power cord which is permanently connected to the transceiver, or by plugging DC power into the 13.8V DC Power jack. A DC power cord with polarized plug is supplied with the radio. The polarized plug ensures that the power will always be connected properly.

## OPERATING PROCEDURE TO RECEIVE

1. Be sure that the power source, antenna and microphone are connected to the proper connectors before going to the next steps.
2. Set the PA-CB Switch to the CB position. Turn the unit ON by depressing the POWER MANUAL Switch.
3. Set the mode switch to the desired mode.
4. Set the Channel Selector Switch to the desired channel.
5. Set the Volume Control to a comfortable listening level.
6. Set the RF Gain Control to the maximum clockwise position.
7. Listen to the background noise from the speaker. Turn the Squelch Control slowly clockwise until the noise JUST disappears (no signal should be present). Leave the control at this setting. The SQUELCH is now properly adjusted. The receiver will remain quiet until a signal is actually received. Do not advance the control too far, or some of the weaker signals will not be heard.
8. Adjust the Clarifier Control to clarify the SSB signals or to optimize the AM signals.

## OPERATING PROCEDURE TO TRANSMIT

1. Be sure the operator of the transmitter is a holder of a Citizens Band license issued by the F.C.C. or has applied for a license and has in his possession a completed temporary permit (F.C.C. Form 555-B).
2. Be sure the operator has read and understands part 95 of the Plain English Rules - Citizens Band Service prior to operating the transmitter.
3. Select the desired channel.

### CAUTION

Be sure the antenna is properly connected to the transceiver before transmitting. Transmitting without an antenna or with a poorly matched antenna (high SWR; over 2) can cause damage to the transmitter.

4. Set the Mike Gain Control to the maximum clockwise position. Observe modulation percentage on the meter.  
**NOTE:** When control is in the maximum counterclockwise position the modulation is zero.
5. When the channel is clear, depress the push-to-talk switch on the microphone and speak in a normal voice.
6. Adjust Mike Gain Control for desired modulation percentage.

## **OPERATING PROCEDURE FOR PUBLIC ADDRESS**

- 1) Connect a remote speaker to the PA jack provided on the rear panel.
- 2) Place the PA-CB Switch in the PA position.

**NOTE:** When the Volume control is rotated clockwise, activity on the CB channel will be heard through the PA speaker.

- 3) Depress the push-to-talk switch on the microphone and speak in a normal voice.
- 4) Adjust the volume of the speaker using the Microphone Gain control on the front panel.

## **OPERATING PROCEDURE FOR SETTING THE LED CLOCK**

Flashing numerals in the clock LED display will indicate there has been an AC power interruption and that it is necessary to reset clock time.

To set the proper time on the clock, proceed as follows:

1. Depress the SET/CLOCK switch to activate the clock set function.
2. Depress the FAST/CLOCK switch. Hold the switch in until the clock display indicates a time approximately two to three minutes before the correct time, and then use the clock SLOW advance switch to set the clock LED display for a time one minute ahead of the correct time.
3. Depress the HOLD switch and hold the time indicated in the clock display until that hour and minute is reached.

## **OPERATING PROCEDURE FOR SETTING THE AUTO POWER CLOCK**

The auto power function in the STALKER XX allows the operator to select a predetermined time at which the radio will automatically turn on for a period of 60 minutes.

To set the AUTO/PWR time, proceed as follows:

Depress the SET/AUTO PWR switch. The LED display will now show a previously selected alarm time. Use the FAST or SLOW Advance to select the predetermined alarm time. Once this time has been selected, place the set AUTO/PWR switch so that it is placed in its higher position. Simply depress the PWR/AUTO manual switch.

When the "AUTO" mode is selected, primary power will be applied to the radio and the radio will be turned on when the main clock time passes the preselected alarm time.

## **PREVENTIVE MAINTENANCE**

At six to twelve month intervals, the following system checks should be made:

1. Check Standing Wave Ratio (SWR).
2. Inspect all electrical connections to ensure that they are tight.

3. Inspect antenna coaxial cable for wear or breaks in shielding.
4. Inspect all screws and other mounting hardware for tightness.

## OPERATOR TROUBLESHOOTING

Should the unit malfunction or not perform properly, the operator should perform the procedures indicated below:

1. If the transceiver is completely inoperative.
  - \* Check the power cord and fuse.
  - \* Be sure Power Manual Switch is turned "ON".
  - \* Be sure the rear panel DC/AC switch is in the proper position.
2. If trouble is experienced with receiving.
  - \* Check ON/OFF VOLUME Control setting.
  - \* Be sure that the PA-CB Switch is set to the CB position.
  - \* Be sure SQUELCH is adjusted properly. Is the radio over-squelched?
  - \* Check to see that the radio is switched to an operational mode.
  - \* Be sure the RF Gain Control is in the maximum clockwise position.
3. If trouble is experienced with transmitting.
  - \* Be sure that the PA-CB Switch is set to the CB position.
  - \* Be sure that the microphone is securely connected to the Mic. Jack.
  - \* Check to see that the transmission line (coaxial cable) is securely connected to the ANTENNA CONNECTOR.
  - \* Be sure that the antenna is fully extended for proper operation.
  - \* Be sure that all transmission line (coaxial cable) connections are secure and free of corrosion.
  - \* Be sure that you are fully pressing the Push-to-Talk Switch on the microphone.
  - \* Be sure the Mike Gain Control is in the maximum clockwise position.

## SERVICING YOUR TRANSCEIVER

The technical information, diagrams and charts provided in the Owner's Guide are supplied for the use of a qualified holder of a first or second class radiotelephone license in servicing this transceiver. It is the user's responsibility to see that this radio is operating at all times in accordance with the F.C.C. Citizens Radio Service regulations.

If you install your own transceiver, do not attempt to make any transmitter tuning adjustments, as they are prohibited by the F.C.C. unless you hold or are in the presence and under the supervision of a first or second class radiotelephone licensed person. A Citizens Band or Amateur license is not sufficient.

Please refer to the WARNING information contained in Section 1 of your Owner's Guide.

(NOTE: When ordering parts, it is essential to specify the correct model number and serial number of the unit.)



## ONE-YEAR FULL WARRANTY

**WARRANTOR.** Stalker Communications Division, American Radio Corporation, 6330 Castleplace Drive, Indianapolis, Indiana 46250.

**ELEMENTS OF WARRANTY.** American Radio Corporation warrants, for the duration of this warranty, its Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**WARRANTY DURATION.** This Warranty shall terminate and be of no further effect ONE (1) year after the date of the original purchase of the Product or at the time the Product is (a) damaged or not maintained as reasonable and necessary, (b) modified, (c) improperly installed, (d) is repaired by someone other than Warrantor for a defect or malfunction covered by this Warranty, or (e) used in a manner or purpose for which the Product was not intended.

**PARTS COVERED.** This Warranty covers all components of the Products.

**STATEMENT OF REMEDY.** In the event that the Product does not conform to this Warranty at any time while this Warranty is effective, Warrantor will repair the defect and return it to you prepaid, without charge for parts, service or any other costs incurred by Warrantor or its representatives in connection with the performance of this Warranty. In addition if the Product contains a defect or malfunction which is not repaired after a reasonable number of attempts by Warrantor to repair the Product, the Product or defective component will at your election either be replaced without charge or the purchase price for the Product will be refunded, when the defective Product is delivered to Warrantor at 6330 Castleplace Drive, Indianapolis, IN 46250 free and clear of all liens and encumbrances. Please note that while the Product will be remedied under this Warranty without charge, THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

**WARRANTY REGISTRATION CARD.** In order to facilitate the servicing of this Warranty by Warrantor, the Warranty Registration Card should be returned to Warrantor. However, return of the Warranty Registration Card is not a precondition of this Warranty, and this Warranty will be observed by Warrantor whether or not the Warranty Registration Card is returned.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY.** In the event that the Product does not conform to this Warranty, the Product should be shipped prepaid or delivered to Warrantor at 6330 Castleplace Drive, Indianapolis, IN 46250 with evidence of the date of the original purchase.

**LEGAL REMEDIES.** This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.