

# AR-1 Aviation Radio Instruction Manual

## Advanced Operation

### Seek

To change the tuning mode to Seek, repeatedly press and release the MODE button until SEEK appears on the display. In Seek mode, press the up button (either > or >>) to search the frequencies starting at the present frequency and stepping through the stations in order of increasing frequency. The search will stop when an active channel is detected. If the maximum frequency of the selected band is reached before an active station is found, the search will continue to cycle from the lowest frequency of the selected band.

Press the down button (either < or <<) to search the stations starting at the present frequency in order of decreasing frequency. If the minimum frequency of the selected band is reached before an active station is found, the search will continue from the highest frequency of the selected band.

### Memory Save

Each band has five preset frequencies. To enter a frequency into memory, follow these steps:

1. Tune the radio to the frequency to be saved.
2. Press and release the MEM button. (MEM will appear on display.)
3. Press and release one of the five memory buttons. (MEM will disappear from display.)

### Memory Recall

To recall a preset frequency, press and release one of the five memory buttons. If MEM is visible on the display, first press and release the MEM button.

### Scan

Transmissions in the AIR band are typically very short. If you want to monitor more than one frequency in the AIR band, enter the frequencies into the five memory locations and change the tuning mode to SCAN. Begin with the Squelch fully counterclockwise. Slowly turn the Squelch clockwise until static is cut out. Now the radio will scan the five preset frequencies. When a signal is detected, the )))) symbol will appear on the display and the speaker will activate. The radio will remain tuned to the active frequency until there is no signal for two seconds. Then the radio will resume scanning the five preset frequencies.

### Specifications

AIR 118.000–136.975 MHz  
AM 530–1710 kHz

WX 162.400–162.550 MHz  
FM 87.5–108.1 MHz

### Limited Warranty

Aviation Supplies & Academics, Inc. (ASA) warrants the AR-1, to the original purchaser for a period of five years from the initial date of purchase, against defects in material and workmanship. Batteries are not covered by this warranty.

For the five-year limited warranty period, ASA will either repair or substitute a reconditioned model of identical quality (at ASA's option), provided the product is returned postage prepaid to ASA. In the event of substitution with a reconditioned model, the warranty of the original radio will be upheld. Other than the above requirements, repair, adjustments and/or substitutions will be made at no charge.

ASA strives to provide the most rugged and reliable equipment possible. So few items are received for repair that it is not economical to maintain parts inventory, test equipment, and trained repair technicians to perform electronic repair work. Therefore, a replacement unit (new or remanufactured) is typically sent in exchange for units returned for service or repair.

ASA will not be liable for lapse of use of the AR-1 or other secondary or sequential costs, expenditures, or damages brought about by the purchaser. Implied warranties originating out of this sale, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above five-year period. ASA shall not be liable for loss of use of the AR-1 or other incidental or consequential costs, expenses, or damages incurred by the purchaser.



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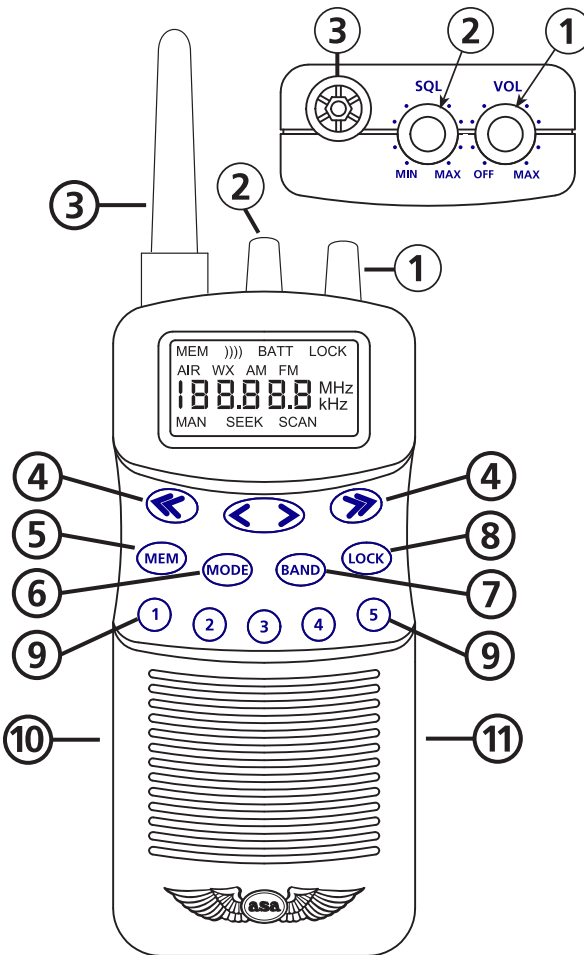
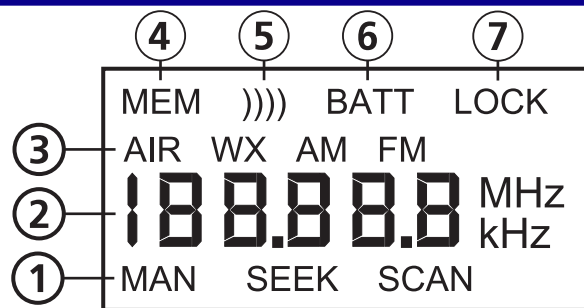
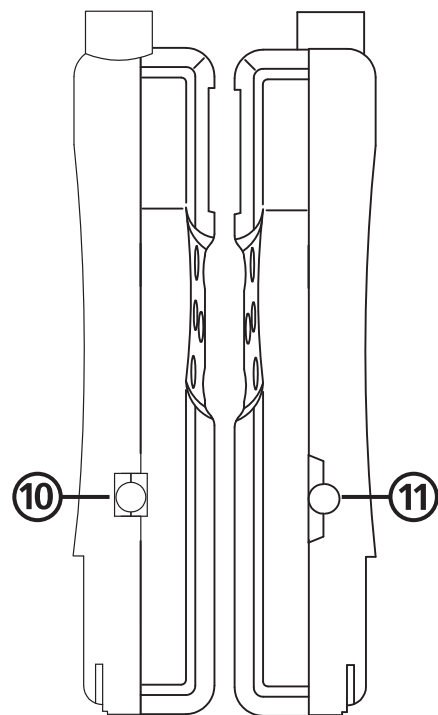
Made in China

**Display Features**

1. Tuning mode ( MAN, SEEK, SCAN )
2. Tuned frequency
3. Band ( AM, FM, AIR, WX )
4. Memory enter enable
5. Aviation signal detect
6. Low battery indicator
7. Keypad lock

**General Features**

1. On/Off/ Volume
2. Squelch
3. Antenna
4. Frequency selection (increase/decrease)
5. Memory enter
6. Tuning mode ( MAN, SEEK, SCAN )
7. Band ( AM, FM, AIR, WX )
8. Keypad lock (hold 4 seconds)
9. Memory recall keys
10. External power jack
11. Earphone jack



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult ASA or an experienced radio/TV technician for help.

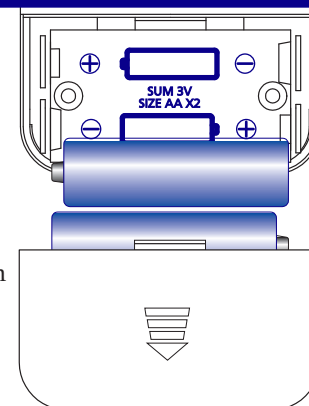
Changes or modifications not expressly approved by ASA could void the user's authority to operate this equipment.

**Power Supply****Batteries**

Slide down the battery cover on the back of the unit and insert two AA batteries as shown. Do not mix battery types. Replace batteries when the BATT indication appears.

**AC Adapter**

The radio may also be powered by an AC adapter. Be sure that the adapter matches the radio. The AC adapter must be 3 volts DC with the center pin negative.

**Important Note**

To retain preset frequencies, the radio must be turned off when replacing batteries or inserting or removing the power adapter. New batteries must be inserted in the radio within one minute after removing old batteries.

**The power adapter must be plugged into the wall socket before plugging it into the radio and must be removed from the radio before unplugging from the wall socket.**

**Basic Operation****Power On/Off, Volume**

Turn the Volume control clockwise to turn on radio and increase volume. Turn the Volume control fully counterclockwise to turn off radio.

**Select Band**

Press and release the BAND button to change the radio band. The bands cycle through AM, FM, AIR, and WX.

**Select Tuning Mode**

Press and release the MODE button to change the tuning mode. The tuning modes cycle through MAN and SEEK in the AM, FM, and WX bands. The tuning modes cycle through MAN, SEEK, and SCAN in the AIR band. Select MAN for basic operation.

**Select Frequency**

Press and release the > button to select the next higher station. Press and release the < button to select the next lower station. You can also use the fast up >> and fast down << buttons to reach the desired station more quickly. In the AM band, the fast up/down buttons will change the tuned frequency by 100 kHz. In the FM and AIR bands, the fast up/down buttons will change the tuned frequency by 1 MHz. In the WX band, the fast up/down buttons function the same as the regular up/down buttons.

**Adjust Squelch (AIR band only)**

Transmissions on the AIR band are typically very short. The Squelch control is used to cut out the static noise between transmissions. Begin with the Squelch control fully counterclockwise. Slowly turn the Squelch control clockwise just until static cuts out. Now the speaker will only turn on when there is a transmission on the tuned frequency.

**Keypad Lock**

To disable the keypad and lock out any input, press the LOCK button for four seconds. When LOCK appears on display, release the LOCK button. To enable a locked keypad, press the LOCK button for four seconds. When LOCK disappears from the display, release the LOCK button.

**Earphone Jack**

The internal speaker is disabled when this jack is used. Standard stereo-style headphones may be used.