

## SPECIFICATIONS

### AUDIO SECTION

Power supply voltage (negative ground)	12V DC (10V-18V)
Standby Current	6mA
Max Current Consumption	7.5A
Speaker impedance	4-8 Ohms per channel

### POWER OUTPUT

Continuous Output into 4Ω, 20 to 20,000 Hz at 10 % THD	2 x 20Watts
Maximum Power Output (Volume control Maximum)	50W×2 (at 1kHz)

### FM TUNER

Range	(USA) 87.5 – 107.9 MHz (EUR) 87.50 – 108.00 MHz
Usable Sensitivity (S/N = 30dB)	7.34dBf.(0.6uV/75ohms)
Signal to noise ratio	58dB (Mono)
Stereo separation (@ 1K Hz)	42dB

### AM TUNER

Range	(USA)530 – 1,710 kHz (EUR) 522 – 1,620 kHz
Usable Sensitivity (S/N = 20dB)	23dBuV (14.4uV)
Signal to noise ratio (LEVEL60dbuV)	60 dB

### WEATHER BAND TUNER

Range	162.400 –162.550MHz
Usable Sensitivity (S/N = 20dB)	0.7uV(-9dBuV)
Signal to noise ratio (LEVEL40dbuV)	42dB

### AUXILIARY INPUT SPECIFICATIONS

Input Voltage Maximum Voltage	1.2V
Input impedance	10KΩ

### DIMENSIONS

Chassis (W x H x D)	178 x 50 x 72 mm
Nosepiece (W x H x D)	188 x 58 x 13mm
Weight	15.8oz

*\*Due to continuous product improvement, specifications and design are subject to change without notice.*

# REI

## Heavy Duty Compact AM/FM Stereo Weather Band Radio w/Front-Panel Auxiliary Input



# REI

Radio Engineering Industries, Inc.

[www.radioeng.com](http://www.radioeng.com)

Rev B Date: 6-4-13

## Installation/ Operation Manual

## 50W x 2

## ST-1000

Thank you for purchasing the ST-1000 AM/FM Weather Band Receiver from REI. This product is designed and tested to withstand temperature and vibration extremes. Please read the owner's manual carefully before attempting to install this unit.

If you have an installation question or need installation assistance, please call the:

**SERVICE HOT LINE**  
**1-877-726-4617 Toll Free USA & CANADA**  
**1-402-339-2200**

IF ADDITIONAL INSTALLATION COMPONENTS ARE NECESSARY, CONTACT YOUR REI

SALES REP FOR:

\*\* OEM /FACTORY WIRING HARNESS ADAPTERS

\*\* ANTENNAS & ANTENNA ADAPTERS

\*\* SPEAKERS & GRILLS

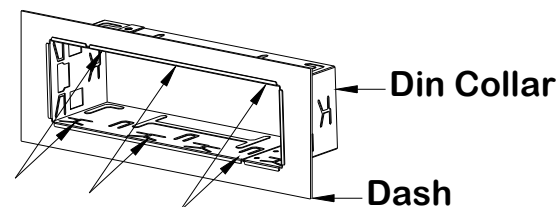
**Radio Engineering Industries, Inc.**  
6534 "L" Street  
Omaha, Nebraska 68117  
[www.radioeng.com](http://www.radioeng.com)

FEATURES:

Non-volatile memory back-up  
NOAA® Weather Band Receiver  
AM/FM Stereo Receiver  
Small Compact Chassis  
Digital Tune and Seek  
Preset Up to 30 Radio Stations (18 FM, 12 AM, 7 WB)  
Front Aux Input (3.5mm Stereo jack)  
Volume Select Knob  
Electronic Bass, Treble, & Balance control  
LED Backlighting  
Output Power 50W x 2

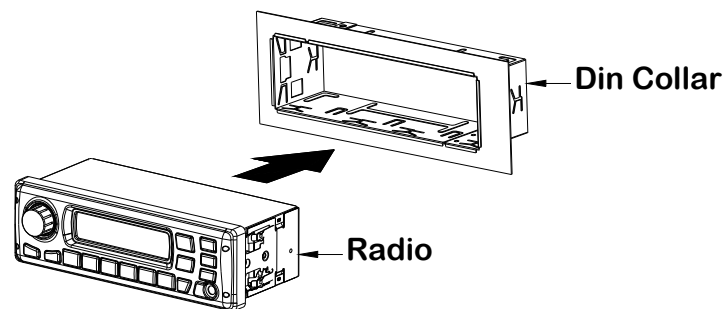
## INSTALLING THE RADIO

1. Place the DIN collar into the dash opening. Bend the tabs outward as shown on the drawing below to lock into place.

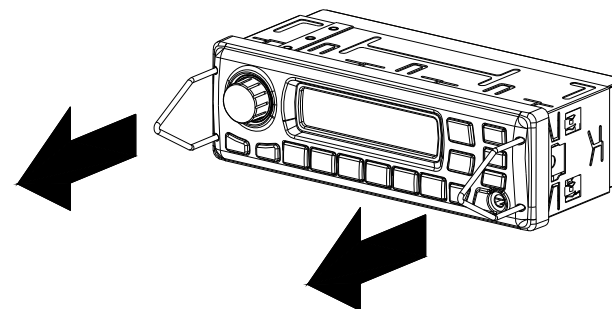


**Bend tabs both top  
and bottom of Din Collar  
to secure**

2. Connect to the radio's harness and antenna jack. Verify clearance; then gently insert the radio into the DIN Collar until both sides lock.

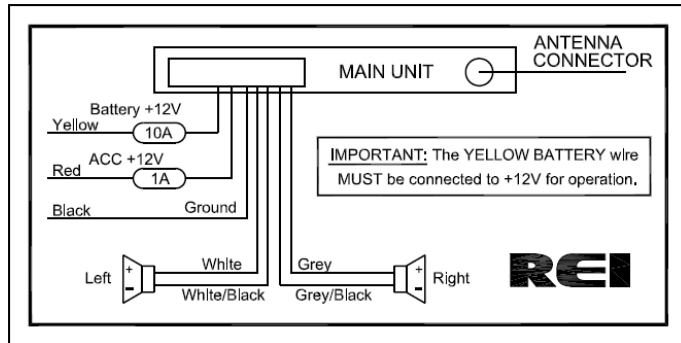


3. To remove the radio, insert the two release keys on either sides of the radio and pull the radio out.



## ELECTRICAL CONNECTIONS

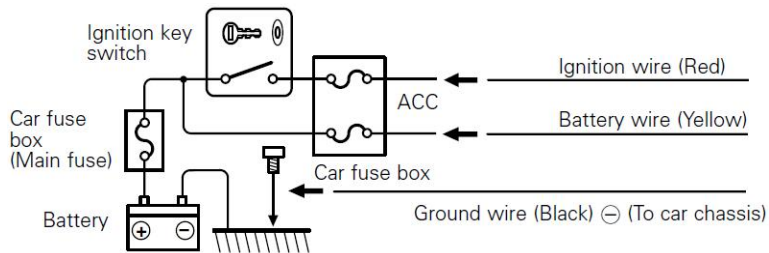
Follow this easy wiring diagram when installing Radio and Speakers.



### Warning:

\*This radio is designed for 12V DC Negative Ground Systems Only.

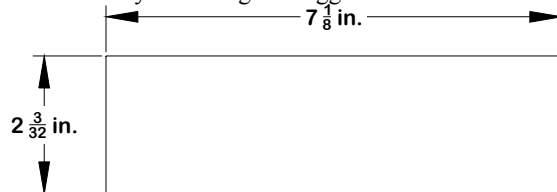
\*\*Shorting or grounding any of the speaker wires can damage the radio and is not covered by warranty.



**\*\*NOTE: THE RADIO'S YELLOW BATTERY +12V WIRE MUST BE CONNECTED FOR OPERATION.**

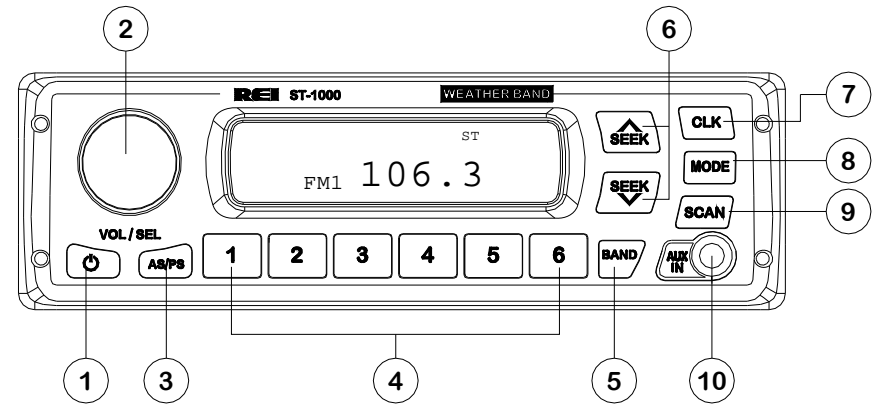
## REQUIRED RADIO DIMENSIONS

Verify the radio will fit by following the suggested dimensions below.



**Dash Opening Dimensions**

## CONTROLS AND INDICATORS



## Panel Function

1. Power On/Off Button
2. Volume/Select Knob
3. Auto Store / Preset Scan Button
4. Preset Memory/Recall and Weather Band Select Buttons
5. Band Select Button
6. Radio Station Tune/Seek Buttons
7. Clock Button
8. Mode Button
9. Radio Scan Button
10. Front Auxiliary Input Jack

## OPERATION

- 1) Power On/Off Button  
Press the Power Button to turn ON or OFF the unit.  
**Note: Radio can also be powered on by pressing any front button.**
- 2) Volume/Select Knob  
Rotate the knob left or right to change the volume level.  
Press the knob to select one of the following functions:  
VOL---BASS---TREB---BAL  
Upon choosing the function, rotate the knob to adjust the desired setting.  
PLEASE NOTE: If the Volume/Select Knob has not been adjusted for 5 seconds it will automatically revert back to volume function.
- 3) Auto Store / Preset Scan Button  
Press and hold this button for 2 seconds to auto program available stations into the preset memory buttons. This function will erase previous memorized stations and store the newly searched stations. Once completed, the radio will scan for 5 seconds through each of the preset stations of either the AM or FM band and stop.  
  
Press this button momentarily to scan preset stations.
- 4) Preset Memory/Recall Buttons  
Press these buttons momentarily to select the preset stations.  
Press and holding a button will preset the current station to the button being pressed.  
**\*\*Preset buttons are Pre-assigned Frequencies in Weather Band Mode.**
- 5) Band Selector Button  
Press this button to change radio bands as follows:  
FM1—FM2—FM3—AM1—AM2 —WB
- 6) Tune /Seek Buttons  
Under Radio mode, press the desired button momentarily to manually tune a station moving upward or downward. Press and hold a button and the radio will automatically seek the next available radio station. These buttons also function as Weather Band Channel 7 (162.550 MHz) access. Under weather band mode, pressing these buttons will select weather band channels 1-7.
- 7) Clock Button  
Press this button to change between Clock and Mode Information display.  
  
Setting the Time:  
With the radio's power ON, press this button momentarily to display the time. Next, press and hold this button until the hour display begins to flash. Rotate Volume/Select Knob to adjust the hour. Press the DISP button again, and the minute display will flash. Rotate VOL/SEL Knob to adjust the minute. Press the VOL/SEL button to save the time on the LCD.

- 8) Mode Button  
Press this button to navigate between modes AUX —TUNER.
- 9) Scan Button  
Press this button to automatically preview radios station for 5 seconds.
- 10) Auxiliary Input Jack  
The unit is equipped with a front panel 3.5mm auxiliary input so you can connect your external portable audio player or portable satellite radio receiver.  
  
\*It may be necessary to adjust the volume level of your portable devise to achieve an optimal volume level.

### Weather Band Mode

NOAA National Weather Radio Broadcasts from over 380 Locations throughout the U.S. on seven VHF/FM frequencies. Tune to receive continuous weather information 24 hours a day on one of the following frequencies.

Press preset 1 to select weather band channel 1 - 162.400MHZ  
 Press preset 2 to select weather band channel 2 - 162.425MHZ  
 Press preset 3 to select weather band channel 3 - 162.450MHZ  
 Press preset 4 to select weather band channel 4 - 162.475MHZ  
 Press preset 5 to select weather band channel 5 - 162.500MHZ  
 Press preset 6 to select weather band channel 6 - 162.525MHZ

\*\*Press SEEK UP/DOWN to select weather band channel 7 - 162.550 MHz

### NOTE:

For easy viewing at night, the backlighting will always be on when ACC +12V switched power is applied. Backlighting will only shut off when the switched ACC +12V power is removed.

### TROUBLE SHOOTING

Problem	Cause	Solution
<b>Backlighting is on, but no LCD display</b>	No power to BATTERY wire or blown 10A main fuse.	Check for both ACC & BATTERY voltage with Multi-meter, check all fuses.
<b>No sound</b>	Speakers not connected; speakers connected with bad splices; Speakers shorted to ground; speaker load is not within 4-8 Ω.	Connect speakers to harness; check all spliced wires; verify speakers not shorted to chassis; verify total speaker impedance. Check volume level.
<b>Cannot tune radio stations</b>	The antenna cable is not connected. The signal is too weak. The radio is in the wrong frequency steps.	Connect the antenna cable. Check the frequency spacing in the radio's SERVICE menu.