



Transmitter Installation and Operation

Easy-to-follow instructions on how to program and use your Talking House / i A.M. Radio Transmitter

Questions? Just call (616) 772-2300.

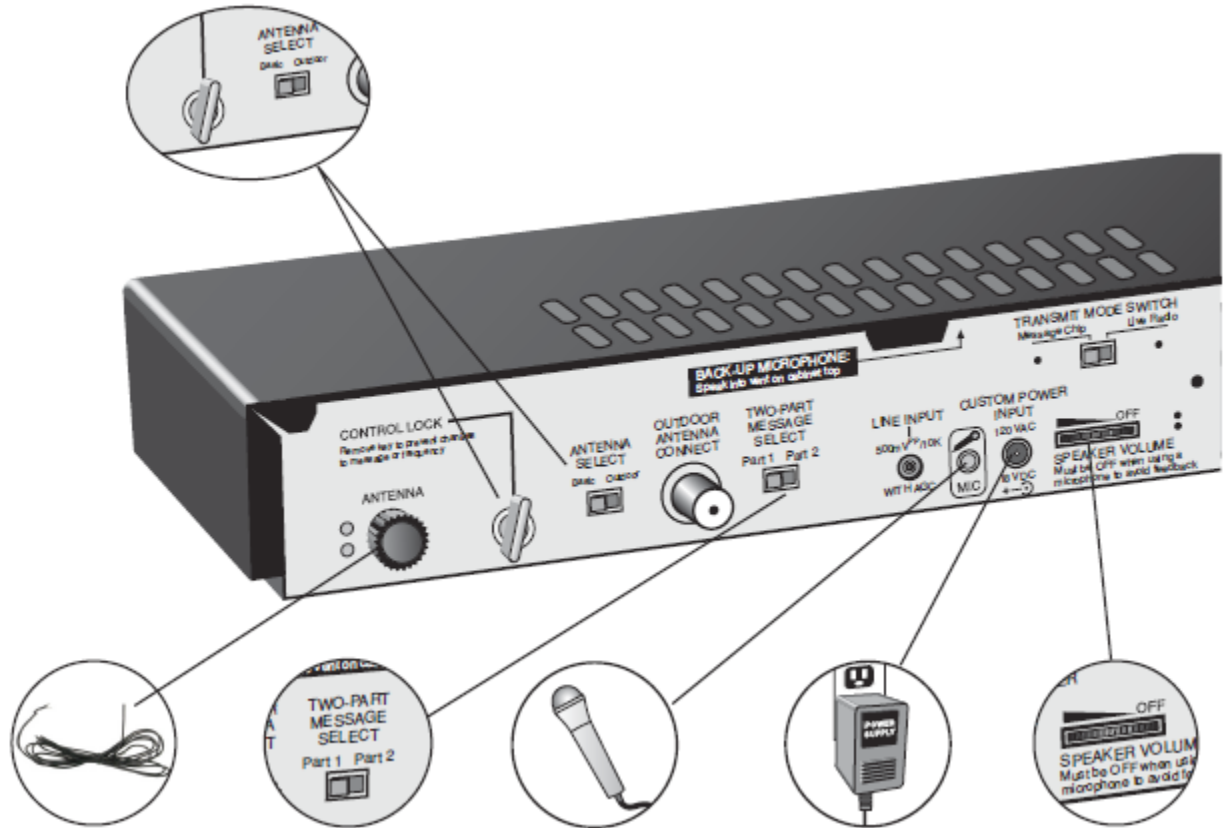
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Quick Start

This Quick Start contains the basic steps necessary to set up and operate your Talking House /i, A.M. Radio Transmitter using the Indoor Wire Antenna. Please read the detailed procedures in this manual for complete instructions, especially if your set-up includes an Outdoor Antenna.

1. Make sure the Control Lock Key is inserted in the Control Lock Hole located on the rear of the Transmitter. This key must be completely inserted to record messages and set the frequency on the transmitter. Also, make sure that the "ANTENNA SELECT" switch is in the "Basic" position.



2. Connect the Indoor Antenna and be sure to uncoil and fully extend the Wire.
3. Set the "TWO-PART MESSAGE SELECT" Switch to "Part-One." You are now ready to record a message to be broadcast via the Internal or External Mic or any external input source connected to the "LINE INPUT" Jack.
4. Plug the hand-held Microphone into the "MIC" Jack located on the back of the Transmitter. If you are not using a hand-held mic, the Transmitter input will default to the Internal Microphone located just under the perforated lid. Or plug any line-level source (MP3 player, cassette deck) into the "LINE INPUT" Jack on the rear panel.
5. Next, plug the Power Transformer into a grounded wall outlet, and then plug the Power Cord into the "CUSTOM POWER" Input Jack located on the back of the Transmitter. The Transmitter will then begin calibrating itself. When it is finished calibrating, a frequency will appear on the front panel display.
6. The "SPEAKER VOLUME" should be turned off when using the Mic to avoid feedback.

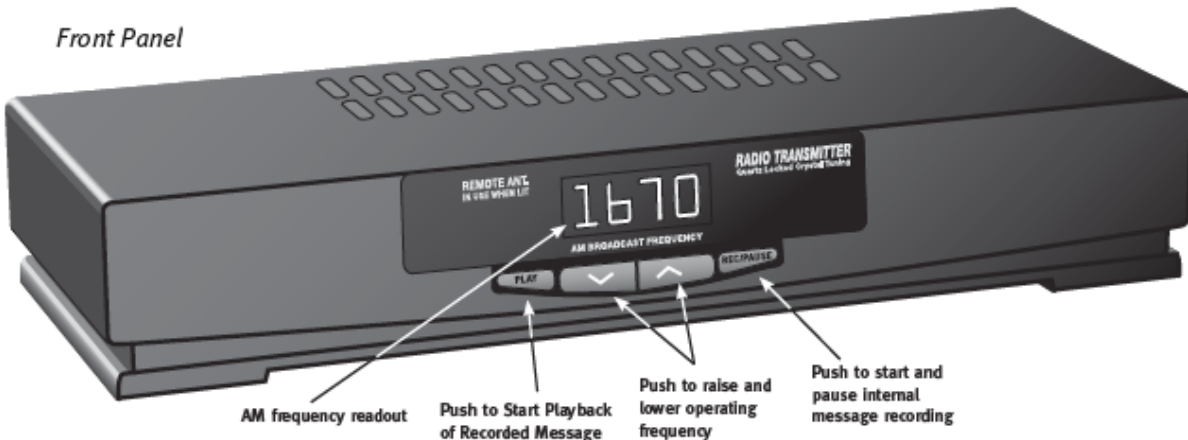
7. To record, press and hold the "RECORD/PAUSE" Button on the front panel until you see the countdown begin on the Front Display. Then, release the button and begin recording your message by speaking clearly into the Internal Mic under the top perforated grill of the unit, or into a hand-held mic plugged in to the "MIC" Jack on the rear of the unit, or by starting an external source plugged into the "LINE INPUT" Jack on the rear of the unit. The front panel digital display will count down the total record time available, but you can pause recording at any time by pushing the "RECORD" Button again. Then, finish the record process by pushing the "PLAY" Button, or continue recording by pushing the "RECORD/PAUSE" Button again.



8. Next, determine an open frequency in your area and set this frequency on the front panel display using the "UP/DOWN" Arrow Keys. Please see the "Frequency Selection" page in this manual to select the best frequency.
9. Finally, monitor the radio signal on a good car radio to check coverage and audio quality. You can try different transmitter locations and frequency selection to improve coverage and minimize noise.

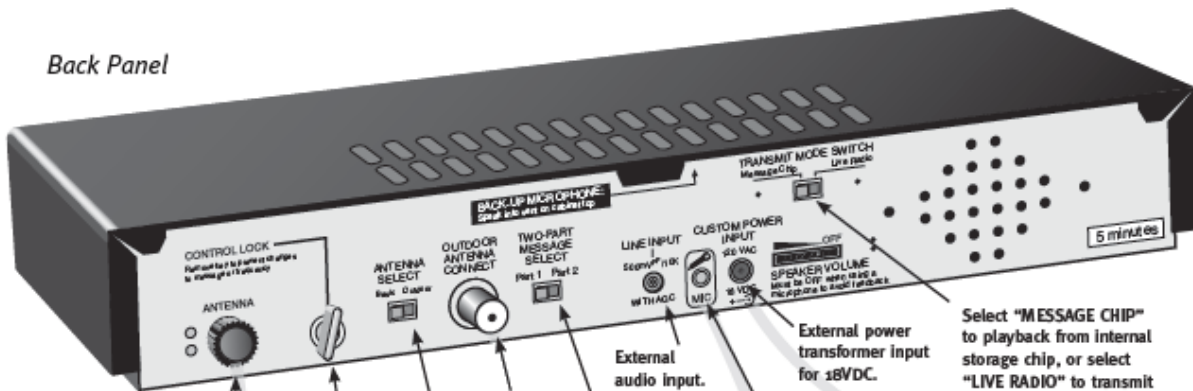
Front and Rear Panel Controls

Front Panel



AM frequency readout Push to Start Playback of Recorded Message Push to raise and lower operating frequency Push to start and pause internal message recording

Back Panel



Connect indoor antenna here, uncoil and stretch out fully along a wall or window sill. Insert key to allow message record or frequency change Connect optional outdoor antenna here via RG-6 coaxial cable Select indoor or outdoor antenna External audio input. Record to internal storage chip and/or broadcast live. Select recording of part 1 or part 2 internal message External power transformer input for 18VDC. External hand-held microphone jack. Use automatically overrides internal microphone. Select "MESSAGE CHIP" to playback from internal storage chip, or select "LIVE RADIO" to transmit via internal mic or external line source.



Frequency Selection and Antenna Connections

Set the frequency.



Determine an available frequency (preferably on the high end of the band) by using a good quality digital car radio parked in your primary listening area. Select a channel on your car radio where no other radio station is audible as well as on one channel above and one channel below. It is advisable to make this listening test at dusk, when radio reception is at best.

Use the front panel "RAISE" and "LOWER" Controls to set this frequency.

Note: When using the Indoor Antenna, the Transmitter will go through an automatic antenna calibration routine after a frequency has been set. This routine will be automatically repeated once an hour to keep the Transmitter calibrated (an internal motor sound will be heard.)

Note: When operating the Transmitter, the built-in Speaker can be used to monitor the broadcast signal or manually turned off or down via the rear panel "SPEAKER VOLUME" Control. The volume level setting of the Speaker volume will not affect the audio level of the broadcast signal.

Connect the Antenna.



Connect the Indoor Antenna to the rear Panel Lug. Locate the Transmitter by a window and stretch the full length of Antenna Cable out in as straight a path as possible. Set the "ANTENNA SELECT" to "BASIC."

Broadcasting Live

Broadcast live from a microphone.



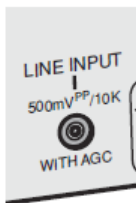
Set the Transmit Mode Switch on the Back panel, to "LIVE RADIO." This immediately and automatically selects the built-in Microphone (located inside the unit and under the top panel grill) to act as the audio source for the transmission.

Plugging in a hand-held, high-Z microphone into the "MIC" Jack on the rear panel automatically supersedes the built-in Mic and selects this Mic as the audio source for the transmission.

Note that the built-in Audio Limiter will keep the signal from distorting, but it is still best to speak directly into the Microphone and at normal and consistent volume for best sound quality.

Note that when using a microphone, the built-in Speaker must be manually turned off or down via the rear panel "SPEAKER VOLUME" Control to avoid feedback.

Broadcast live from a studio or external recorded message.

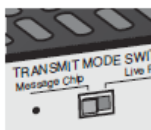


Set the "TRANSMIT MODE" Switch on the back panel, to "LIVE RADIO" and plug a line-level signal (.1V to .5V, unbalanced) into the "LINE INPUT" (1/8" mini phone) Connector on the rear panel. This immediately and automatically selects this external line input to act as the audio source for the transmission or recording.

Note that the built-in Audio Limiter will keep the signal from distorting, but it is still best to maintain the incoming signal level at a consistent volume for best sound quality.

Note that when recording or broadcasting a "LINE INPUT," the built-in Speaker can be used to monitor the broadcast signal or manually turned off or down via the Rear-Panel "SPEAKER VOLUME" Control. The volume level of the Internal Speaker will not affect the audio level of the broadcast signal.

Broadcast a prerecorded message from the internal "Message Chip" storage.



Set the "TRANSMIT MODE" Switch on the back panel, to "Message Chip". The transmitter will automatically begin and continue to playback any audio recorded on the internal "Message Chip." Set the "Two-Part Message Select" switch in the "Part-1" position to playback only message one.

Set the "Two-Part Message Select" switch in the "Part-2" position to consecutively playback both messages parts one and two.

Record Procedure (in detail)

Front Panel



Recording a message onto the internal “message chip.”

1. Insert the Control Lock Key in the Control Lock Hole located on the back of the Transmitter. Select either Part-1 or Part-2 on the Two-Part Message Switch located on the back of the Transmitter. Note that you can record or re-record either message part at any time and select to playback either only Part-1 or Part-1 and Part-2 when transmitting. Therefore, Part-1 is often used as a “wrap-around” or permanent part of the message; while Part-2 is used for additional information and topical updates.
2. To record from the internal built-in Mic, speak into the Top Grill of the unit. To record from an external Mic or Line-Input, plug either device into its corresponding rear-panel Connector.
3. Press and hold the "RECORD/PAUSE" Button on the front of the Transmitter until the Display Panel begins counting down in seconds (*i.e.*, 300, 299, 298...), and then immediately begin speaking or press the "START" Button on your external audio source.
4. To pause during recording, press the "RECORD/PAUSE" Button. Push "RECORD/PAUSE" again to continue. Do not use the "PAUSE" Button to end a recording.
5. When your message is complete, wait a second or two then press and hold the "PLAY" Button located on the front of the Transmitter until you see the frequency re-display on the front panel. The message will begin to play back and will repeat in a loop. If desired, repeat the recording procedure for message PART-2 by selecting Part-2 on the "TWO-PART MESSAGE SELECT" Switch.
6. To protect your message from accidental erasure or tampering, remove the Control Lock Key from the Control Lock located on the back of the Transmitter and place it in a safe place where it cannot be lost.

Note: You can monitor your recording on the Transmitter’s internal Speaker by turning up the “SPEAKER VOLUME” Control on the Transmitter rear panel. But doing so when utilizing a mic as the record source may cause feedback. The setting for this internal speaker volume will not affect audio transmission.

Technical Specifications and FCC Regulations

Transmitter

- Frequency agile with front-panel select-ability; frequency range: 520 to 1700 kHz.
- Automatic Tuning: internal automatic servo-operated tuning circuit for range maximization (U.S. Patent No. 6,295,443).
- Audio Inputs: internal microphone plus external mic (mono) and line-level (stereo) inputs (on 1/8" "mini phone" connector-line-level sensitivity .1 to .5 volts).
- Audio Processing: built in automatic audio limiter / compressor.
- Message Storage: digital voice record/playback solid state memory chip, 5 minutes max.
- Message Length: variable depending upon model of transmitter (see sticker on unit back panel).
- Microphone: built-in or hand-held.
- Size: 8" x 14" x 2.5" (shipping size boxed - 12" x 20" x 6").
- Weight: 4 lbs. (shipping weight - 7 lbs).
- Indoor Antenna: black, rubberized wire, approximately 8' in length.
- Power: 110/120VAC via included 18VDC 100mA external transformer / grounded AC plug adapter.
- RF Output Power: 100 mW average.
- Frequency Control: crystal-controlled phase locked loop tuner.
- Frequency Stability: - +/- 30 Hz.
- Range: typically 300-3000 feet (dependent on conditions and use of outdoor range extender).

Applicable FCC and Licence Regulations - FCCID: DLB5LTT98

This device complies with Part 15 of 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.

FCC Part 15 Rules, Section 15.219 - Operation in Band 510–1705 kHz

(a) The total input power to the final radio frequency stage (exclusive of filament or heater power) shall not exceed 100 milliwatts.

(b) The total length of the transmission line, antenna and ground lead (if used) shall not exceed 3 meters.

(c) All emissions below 510 kHz or above 1705 kHz shall be attenuated at least 20 dB below the level of the unmodulated carrier. Determination of compliance with the 20 dB attenuation specification may be based on measurements at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

Warranty Support and Service Information

30-Day Return / Replacement Policy

Your satisfaction is very important to us. Within 30 days from order date, you may return to us (in original condition with original packaging) any Talking House or i.A.M. Radio product for a full refund, minus freight and handling.

Product Support

To obtain support, contact us via telephone or email.

By telephone, call 616.772.2300 and press 5, 9 am to 5 pm Eastern Time.

Or email info@theRADIOsource.com, 24 hours a day.

You will receive a response within 24 hours and/or on the next business day.

General Warranty

Information Station Specialists warrants Talking House/i.A.M. Radio products against defects in workmanship for 90 days from the date the products are ordered. Defective components may be returned prepaid to Information Station Specialists for repair or replacement at no charge during that 90-day period. Damage that occurs after delivery, such as from lightning or other physical, electrical/digital sources, including improper use or abuse, is not covered by this warranty. The warranty is void should the configuration of components, hardware or software, including the total system be modified (or modified with respect to the operating environment) subsequent to delivery.

This is the full and complete warranty for products and services. Information Station Specialists assumes no obligation of liability for additions or modifications to this warranty unless made in writing and signed by an officer of the company. Information Station Specialists supplies this warranty in lieu of all other warranties expressed or implied, including warranties of fitness of the products for a particular purpose. In no event shall Information Station Specialists be liable for incidental or consequential damage to the full extent that might be disclaimed by law.

Disclaimer

Information Station Specialists disclaims liability for any damage or injuries that result from the following:

- Not using the device as it is intended as it is described in the operation manual.
- Installation of non-original spare parts.
- Unauthorized modification or additions without written approval by Information Station Specialists.
- Use of unauthorized equipment.

Service Information

Please contact us to obtain a Return Merchandise Authorization (RMA) number. We will not accept any service requests/returns without a RMA number printed on the box. Return should be sent to:

Information Station Specialists
Returns Department - RMA # _____
3368 88th Ave
Zeeland, MI USA 49464-0051