

Keypad Operation

Turning the keypad on/off

To activate the ST2-KP, press . Press to power down the keypad display. The keypad remains powered until the ST2 Tuner is turned off.

Selecting the desired tuner

To select a different tuner, press and hold . (If the keypad has been hardware selected to Tuner 1 or Tuner 2, it will not switch between the two tuners.) The backlight color of the display will be green for Tuner 1 and amber for Tuner 2. Each time a tuner is selected the display will refresh with the current station or preset for that tuner, and all subsequent button presses and memory preset entries will be associated with that selected tuner.

Selecting the desired band (operating mode)

Push to switch between AM/FM band, or XM operating modes. Refer to the ST2-XM Tuner manual for mode details.

Utility Menu for ST2-KP

Utility Menu

The Utility Menu allows the installer to run a diagnostic check on the keypad and to verify the firmware version. The Utility Menu also contains the update firmware procedure for updating the ST2-KP's firmware. To access the Utility Menu, press and release the Setup button on the right side of the keypad. The menus are outlined in the diagram at right. When finished, press and release the Setup button until normal operating mode returns. If performing Update Firmware, the power must be cycled.

Note: For the ST2-KP to operate properly, the ST2 Tuner must be configured with Tuner 1 as Source 1, and Tuner 2 as Source 2. If this is not the case, refer to the ST2 Tuner Instruction Manual, Setup Menu section, to set source numbers. Configure Tuner 1 as Source 1, and Tuner 2 as Source 2.

Selecting the desired frequency

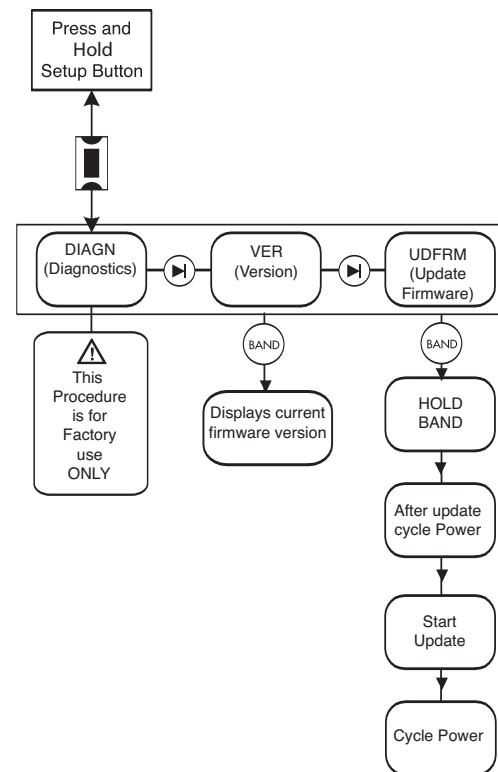
Use and for manual tuning (AM/FM) and channel up and down (XM). To move quickly through the channels, press and hold either or for more than 1.5 seconds. European frequencies show in .05 MHz increments.

Recalling a Memory Preset

To recall a memory preset, press and release or to scroll through the presets for the selected bank. (Memory presets must be stored for ST2-KP recall)

Selecting a Bank

To select a bank, select the desired tuner, then press and hold or to select the desired bank. The bank name will show on the display.



Technical Specifications

Dimensions: 1.875"W x 1.125"D x 4.3"H
(4.8 x 10.9 x 2.8 cm)
Fits 1 Gang UL/CSA Approved Junction Box

Weight: 5 oz. (141g)

Power Requirements: 12 VDC 150mA

CAT-5 Connection: 110 punchdown

Warranty Repair

The Russound ST2-KP is fully guaranteed against all defects in materials and workmanship for two (2) years from the date of purchase. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Russound.

This Warranty does not cover: Damage caused by abuse, accident, misuse, negligence, or improper installation or operation; Power surges and lightning strikes; Normal wear and maintenance; Products that have been altered or modified; Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed.

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write this number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket, NH 03857

Due to continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise system specifications without notice.

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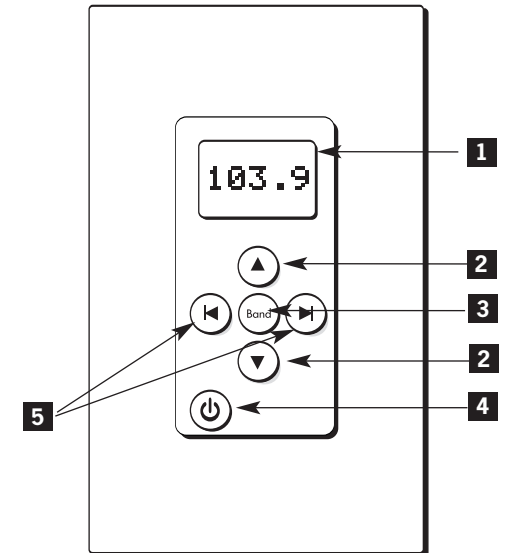
Russound

5 Forbes Road, Newmarket, NH 03857
tel 603.659.5170 • fax 603.659.5388
e-mail: tech@russound.com
www.russound.com

ST2-KP Keypad

The ST2-KP keypad is an in-wall single-gang keypad that is designed to control the ST2 Dual Tuner (AM/FM/XM). It has a backlit LCD panel and soft-touch control buttons.

ST2-KP Keypad-Front Panel

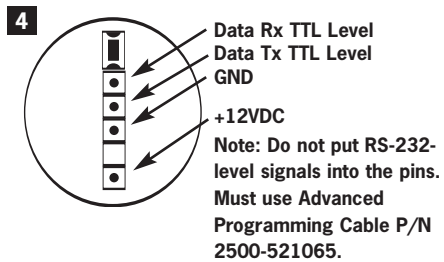
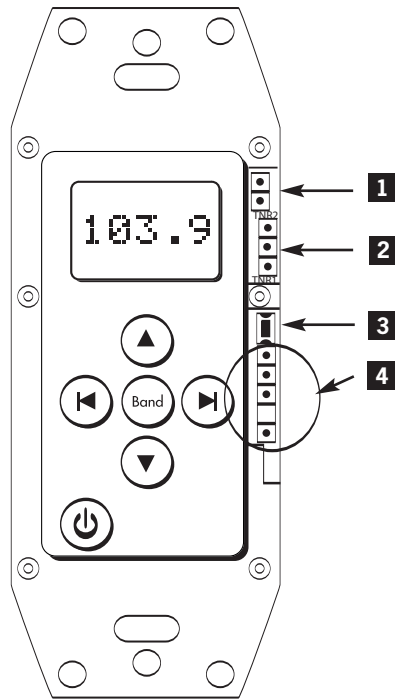
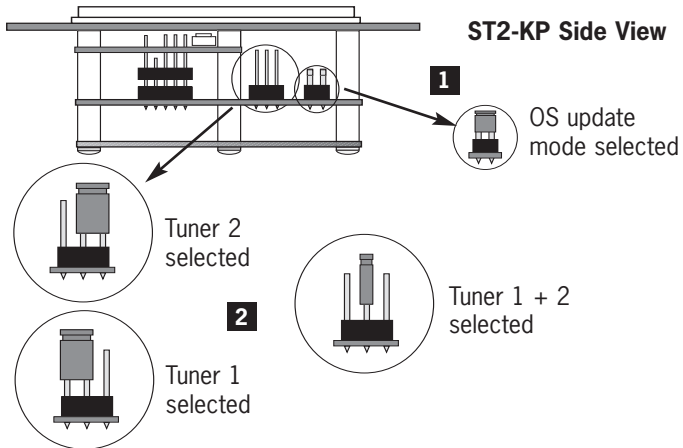


- 1** LCD PANEL - 5-character backlit display shows frequency and band (messages scroll twice, then show first 5 characters)
- 2** FREQUENCY SELECT - Manual station tuning (European frequencies show in .05 MHz increments)
- 3** BAND - Selects band (AM/FM); selects Operating Mode (XM)
- 4** POWER - Turns lighted keypad display on or off
- 4** TUNER SELECTION - Press and hold to select TUNER 1 or TUNER 2 (unless jumper set for specific tuner)
- 5** BANK SELECT - Used for bank selection (press and hold)
- 5** MEM UP/DOWN - Scrolls through memory preset stations for selected bank (press and release)

ST2-KP Side Panel

The ST2-KP's setup button, OS update pins and hardware tuner select pins are located on the right side of the keypad (when facing front).

- 1** OS Update/Run Jumper -The pins are jumpered when performing an OS update on the keypad, and the jumper is left on one pin during normal operation. (Typically needed only on a keypad that has never been updated)
- 2** Hardware Selected Tuner Jumper - The ST2-KP can be set to select only Tuner 1 (jumper on bottom two pins) or Tuner 2 (jumper on top two pins), or to select both tuners (no jumper or simply store jumper on a single pin).
- 3** Setup Button - Activates information and update menus for the keypad.
- 4** OS Update Port - Used to update the ST2-KP keypad operating system firmware. If an update is released, it will be available online through the Document Center on www.russound.com. Look for it in the "Firmware and Downloads" section under Multi-Zone product type. The Advanced Programming Cable is available from Russound, Part #2500-521065.

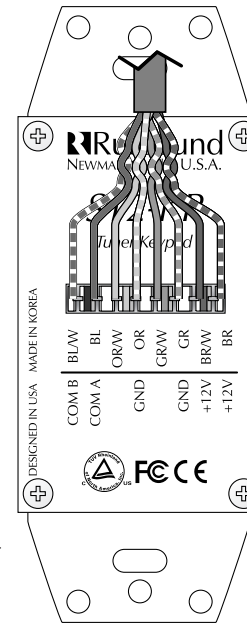


ST2-KP Back Panel

CAT-5 Connection

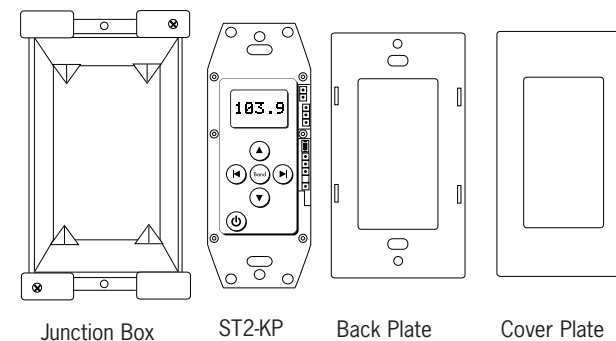
The ST2-KP keypad uses a 110-punchdown terminal on the back panel to provide a simple installation and strong connection for CAT-5 cable's eight conductors. Punchdown terminals require the use of a punch-down tool. Attach the CAT-5 cable to the 110-punchdown terminal on the ST2-KP keypad as shown, matching the conductor colors to the connection color guide. The keypad will not operate properly if the terminations deviate from the required connection order.

Take care when using an impact 110 punchdown tool, as this may over-spread the contact points. Use of the impact tool may propel stray bits of wire and jacket into the keypad's chassis and possibly cause a short in the circuitry. Gently shake or blow air through the keypad chassis to remove stray wire before the keypad is installed into the junction box.



Keypad Installation

1. Check whether or not you can route the wire to the location you have chosen.
2. To install a single-gang keypad, you will need to use a UL/CSA approved plastic single-gang (18 ci) electrical box or a low voltage mounting ring.
3. Route CAT-5 wire to the junction box from the ST2 tuner.
4. Use a 110 punchdown tool to connect each wire to its corresponding color labeled on the punchdown terminal.
5. Mount the keypad in the electrical box and attach the cover plate.



Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Wall Mounting - The appliance should be mounted to a wall only as recommended by the manufacturer.
7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
9. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
 - A. Objects have fallen, liquid has been spilled into the appliance; or
 - B. The appliance has been exposed to rain; or
 - C. The appliance does not appear to operate normally; or
 - D. The appliance has been dropped.
11. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions:

1. Do Not Touch The Unit With Wet Hands – Do not handle or touch the keypad when your hands are wet or damp. If water or any other liquid enters the ST2-KP's cabinet, take the unit to a qualified service person for inspection.
2. Care – From time to time you should wipe off the front panel with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.

Keypad to ST2 Connection

The ST2 tuner supports up to two ST2-KP keypads. An SA-ZX3 Keypad Splitter can be used to add additional keypads.

The ST2-KP connects to the ST2 tuner with CAT-5 cable.

The keypad connects to the ST2 tuner with an RJ-45 (T568A) jack on the tuner connection end of the cable.

Be sure to use the keypad ports for the ST2-KP and NOT the RNET link ports.

Note: ST2-KP keypads are not to be used when the ST2 Tuner is a component of an RNET™ controller such as the CAV6.6. The RNET-system keypads are capable of providing all functions of the ST2-KP.

