STETSOM STM 1003 Multi Player User Manual

Contents

STETSOM STM 1003 Multi Player

Product Information

The STM 1003 is a Multiplayer Automotive Sound Table. It has various inputs and controls to adjust the sound according to user preferences. The product comes with a remote control for easy access to the controls. The product has Bluetooth connectivity and can be paired with devices such as iOS and Android smartphones.

Resources

The product comes with a user manual that provides detailed information on installation, assembly, and usage of the product.

Product Inputs and Controls

- **MIC and LINE:** Input for microphone and line-in devices.
- **LINE:** Input for line-in devices.
- **GAIN:** Controls the gain of the input signal. Adjust to VOL. 50. II at 3.62 and increase the gain to 4 when the CLIP is completely off at STM 1003.
- **HIGH, MID HIGH, MID LOW, and LOW:** Controls for adjusting the frequency levels of the sound.
- **MUTE:** Control for muting the sound.
- **LEVEL CHANNELS:** Control for adjusting the level of individual channels.
- **MAIN OUT:** Output with two RCA connectors.
- **AUX OUT:** Output for auxiliary devices.
- **VU:** Visual representation of the audio signal level.
- **+12V and GND:** Power inputs for the product.

- **REM IN and REM OUT:** Inputs and outputs for remote control.
- **LED POWER:** Indicates the status of the product.
- **Display:** Displays the current mode of the product and input sources.

Product Installation

Before installing the product, ensure that all the necessary components are included in the package. Refer to the user manual for detailed instructions on installation and assembly. Connect the power inputs, input devices, and output devices as per the instructions provided in the manual.

Product Usage

After installation, turn on the product and select the desired input source using the controls. Adjust the gain, frequency levels, and channel levels as per user preferences. The product can be paired with Bluetooth devices by selecting the Bluetooth mode and following the instructions provided in the manual. The remote control can be used to access the controls from a distance. Refer to the manual for detailed instructions on using the product and remote control.

Introduction

The STM 1003 sound mixer was developed to provide high performance and sound fidelity with very low noise levels and harmonic distortion. It is ideal for anyone who wants precise settings in order to produce professional sound.

Resources

The STM 1003 has 3 input channels with 6 connections, which are for Microphone (XLR) and Lines (P10 and RCA), in addition to the multiplayer module which allows even more connectivity. All inputs have rotary controls that act independently on each channel, including:

- GAIN control to adjust the input signal level and 4 controls for ± 15dB equalization (HIGH, MID HIGH, MID LOW AND LOW);
- MUTE switch that turns the channel and volume (LEVEL) on and off, which varies in intensity from 0 to 100%;
- Signal indicator light (SIGNAL) which is green and signal saturation (CLIP) and MUTE indicators which are red.
- It has 1 main output channel (MAIN) that receives and mixes the signals from all channels. The MAIN has 1 P10 connection and 2 RCA connections, a 60mm sliding volume control (MAIN LEVEL) and a 12-LED VU Meter that shows the audio signal level.

The STM 1003 also has an auxiliary output channel (AUX) that receives the signal from the MAIN and releases it through 1 P10 connection and 2 RCA connections controlled by rotary potentiometers for volume (LEVEL) and phase adjustment (PHASE).

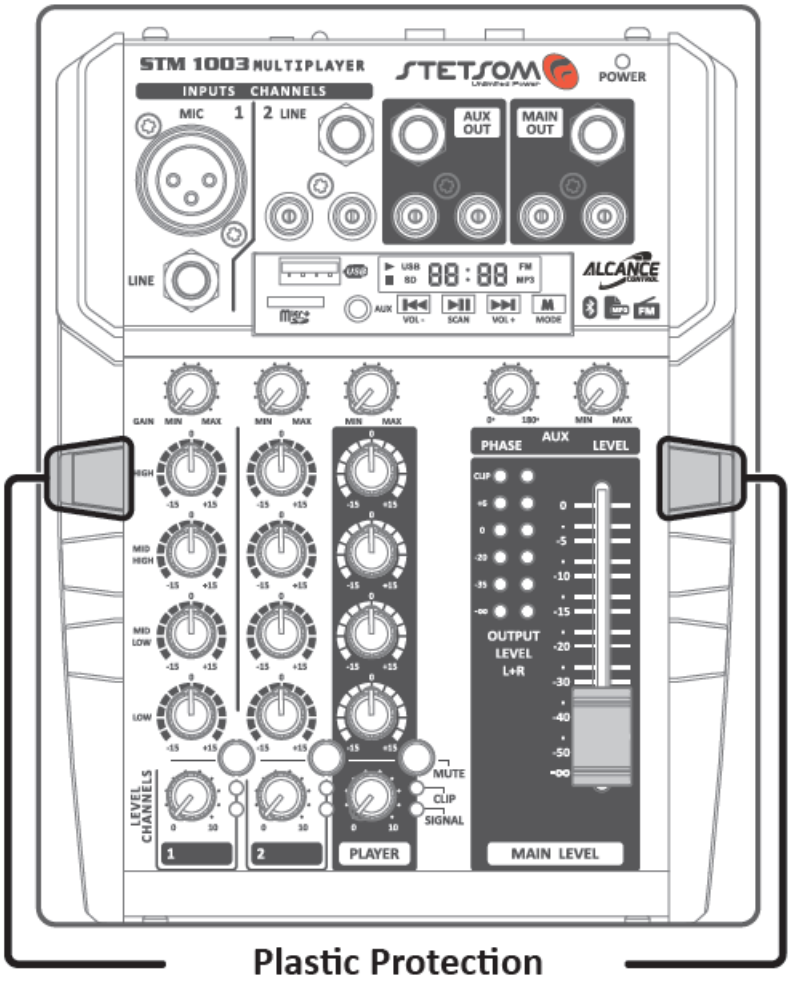
Before Installing

Read this manual carefully before installing the console. You must follow the instructions for the product’s installation and connections to guarantee optimal performance. If necessary, get in touch with our company. Before use, pay attention to the following information:

- Make sure the appliance is switched off before adding or removing any connections. This prevents possible damage to appliances connected to the console;
- Keep all cables as far away as possible from the ignition cables, electronic injection modules and the starter switch since they may cause noise interference;
- Always use good quality cables and connectors. This guarantees sound quality and sound fidelity;
- To avoid damaging the cables, make sure that they do not touch sharp metal edges.

Important: Use a 1A fuse 30 centimeters from the battery for protection.

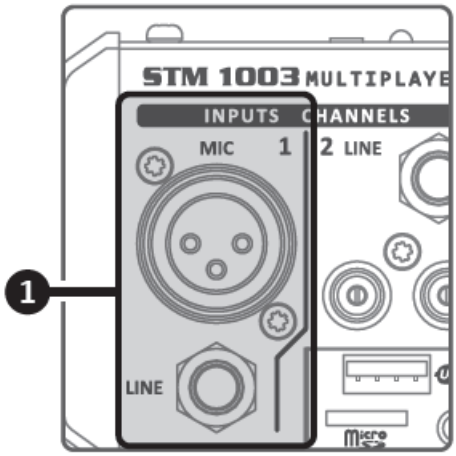
Installation



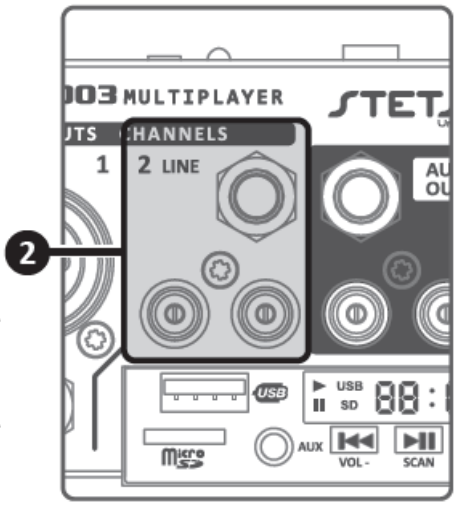
- Choose a place with easy access to install the product. When necessary to attach the product, use the holes that are protected by plastic. Remove the plastic protection and fasten with screws.

PRESENTATION

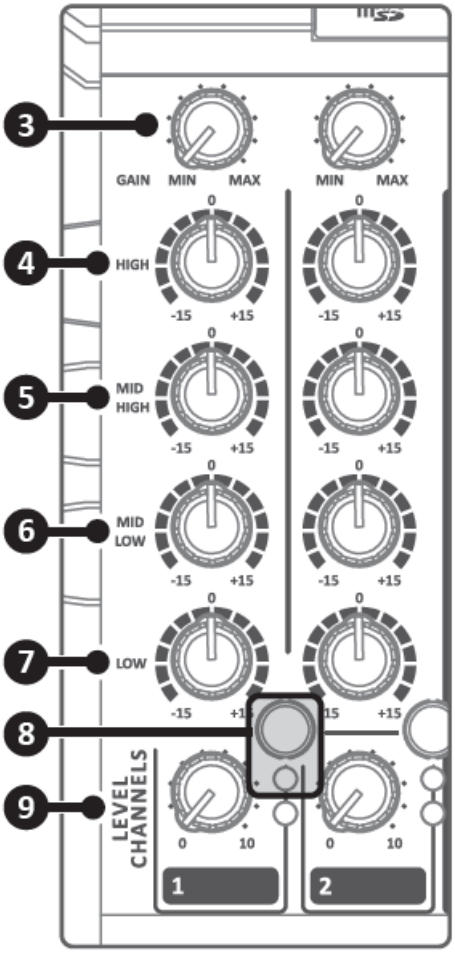
Inputs and Controls



1. MIC and LINE
    - Balanced inputs with XLR (Cannon) and P10 connectors, ideal for connecting dynamic microphones. These inputs do not supply +48V Phantom Power for condenser microphones that require this power supply.
2. LINE

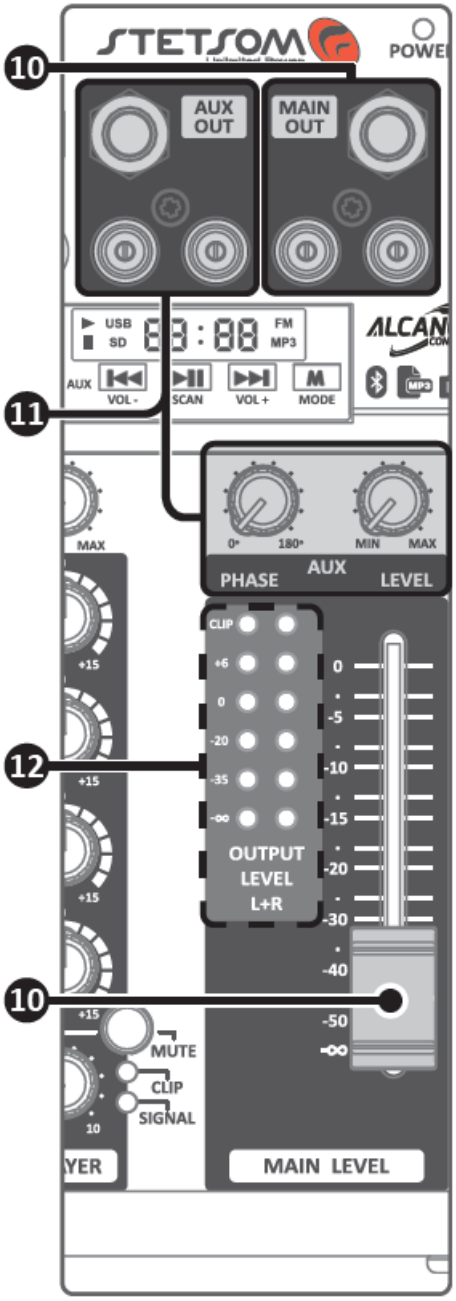


    - Unbalanced inputs with P10 (TRS 1/4“) and RCA connectors, designed to receive high-level signals from CD/DVD/MP3 players, musical instruments, preamps, and other sound equipment.
    - **Note:** Use only one input at a time for each channel. (Ex: XLR or P10, RCA or P10 connection.
    - The inputs on channel 1 are balanced, the inputs of channels 2 and 3 are unbalanced. The MIC (XLR) and LINE (P10) inputs of all channels can receive balanced or unbalanced signals.
3. GAIN

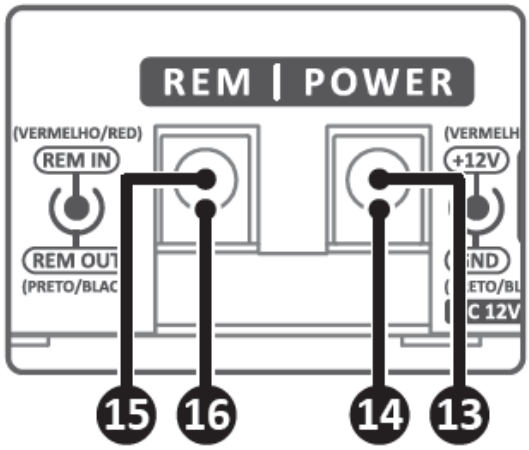


- Controls the input gain of the channel. Practical adjustment procedure:
    1. Set the volume on the radio to 80% of the maximum. Ex: If your radio has up to VOL. 62, set it to VOL. 50.
    2. On the STM 1003, increase the GAIN gradually until the CLIP LED starts blinking.
    3. Decrease the GAIN slightly until the CLIP LED goes out completely.

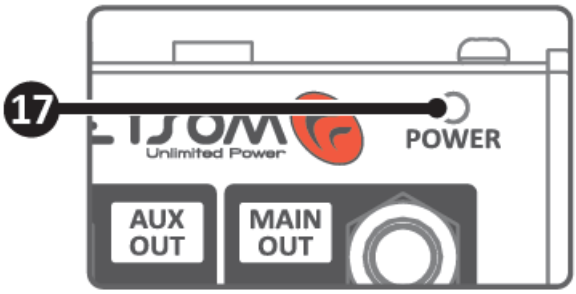
4. HIGH
    - With this control it is possible to boost or attenuate by ±15dB the high frequencies of the audio signal.
5. MID HIGH
    - With this control it is possible to boost or attenuate by ±15dB the mid-high frequencies of the audio signal.
6. MID LOW
    - With this control it is possible to boost or attenuate by ±15dB the mid-low frequencies of the audio signal.
7. LOW
    - With this control it is possible to boost or attenuate by ±15dB the low frequencies of the audio signal.
8. MUTE
    - With this switch it is possible to enable or disable the channel signal without having to adjust the channel's audio level. When pressed, the RED LED (CLIP) will remain on.
9. LEVEL CHANNELS
    - With this control it is possible to adjust the signal level that will go from the channel to the main output (MAIN).
        - **Output and Controls**



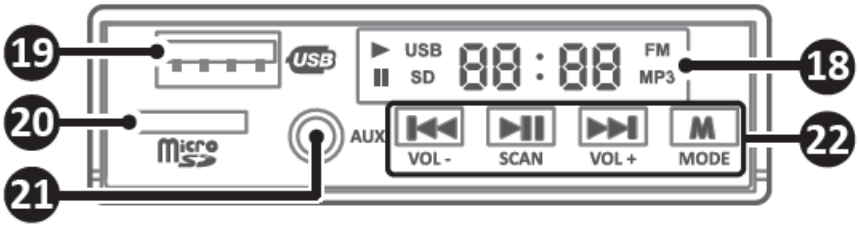
10. MAIN OUT
    - It has two RCA connectors and one P10 connector. This output carries the mixed signals from all the channels.
    - It has a 60mm sliding level (MAIN LEVEL) that allows you to adjust the overall volume (L + R) which will be sent to the console's outputs (AUX OUT and MAIN OUT).
11. AUX OUT
    - It has two RCA connectors and one P10 connector. This output carries the mixed signals from all the channels.
    - It has a rotary control (AUX LEVEL) which you can use to adjust the signal level that will be sent to the AUX OUT output.
    - This output also has a rotary control for phase adjustment (AUX PHASE) which allows you to adjust the phase of the signal from 0º to 180º. The volume from this output depends on the main volume (MAIN LEVEL).
12. VU
    - You can monitor the signal strength of the MAIN OUT output by watching the LEDs.
        - **Power Supply**



13. +12V
    - Positive Power: Connect the RED wire (central terminal of the connector) from the power harness to the Battery's POSITIVE POLE (+12V) using a 1mm² (17 AWG) wire.
    - The STM 1003 has an internal resettable thermal fuse.
14. GND
    - **Negative/Ground:** Connect the BLACK wire (external terminal of the connector) from the power harness to the Battery's NEGATIVE POLE (-), using 1mm² (17 AWG) wire.
    - **Attention:** If you use a 12V source for the STM 1003 that is separate from the rest of the system, connect all the ground wires attach all ground connections from the sources together.
15. REM IN
    - Input for Remote Turn On: The RED wire (center terminal of the connector) from the remote wire harness can be connected to the remote output of a CD/MP3 Player using a 20 AWG cable, or through an on/off switch on the +12V.
16. REM OUT
    - Output for Remote Turn-On: The BLACK wire (outer terminal of the connector) of the remote wire harness can be used to power other sound systems from the remote turn on. Use a 20 AWG cable.
17. LED POWER

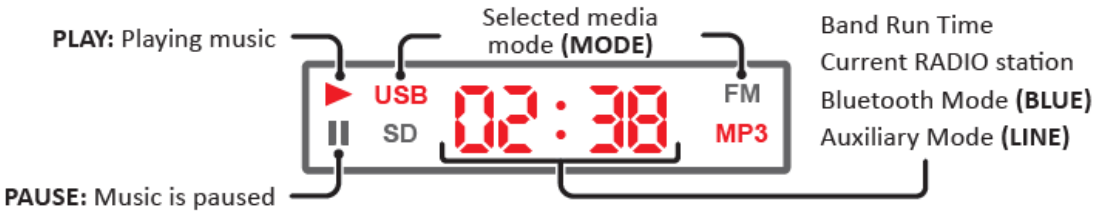


    - The LED (blue) indicates that the STM 1003 is on.
        - **Multiplayer Module**
    - The STM 1003 features a multiplayer module with audio features that include Bluetooth, USB, Micro SD, Auxiliary and FM Radio.
18. DisplayDisplays information according to the multimedia feature being used.

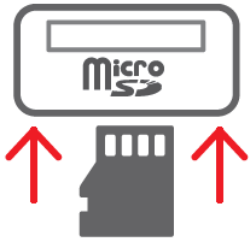


19. USB Input

- Compatible with Pen drives of up to 32GB. This input supports playback of MP3 and WAV audio files.
- **Attention:** Do not use this input to charge your devices. This could damage the STM 1003 module and void the warranty.



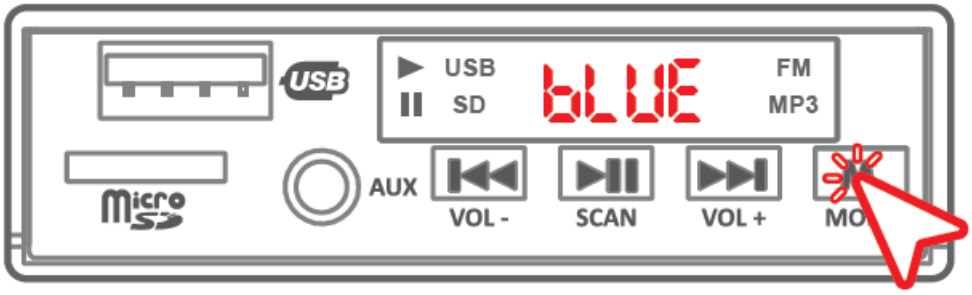
20. Micro SD Input



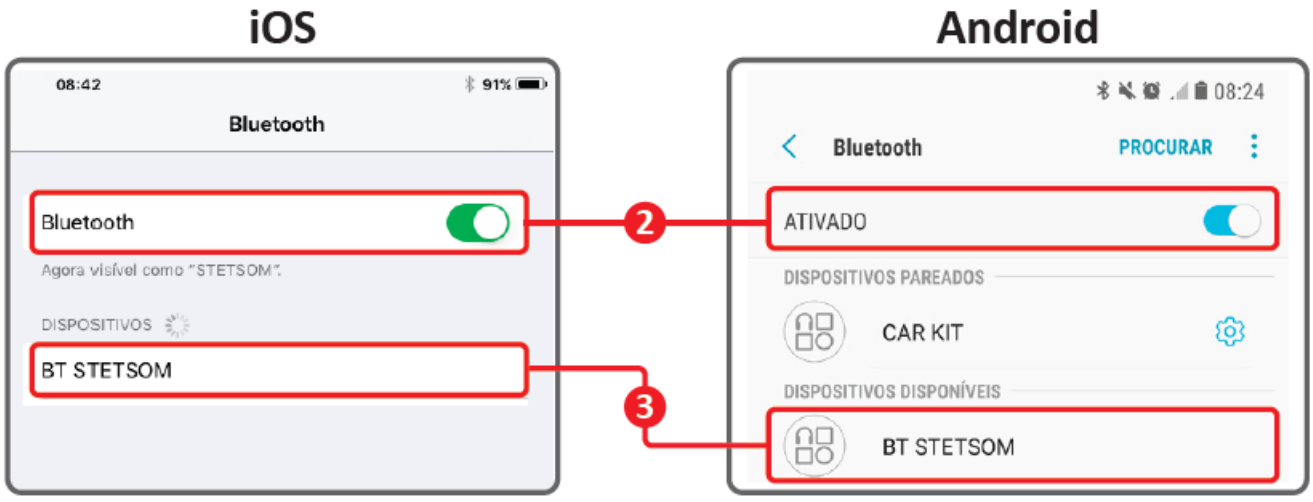
- Compatible with Micro SD memory card.
- The card should be inserted with the contacts facing up.

21. Auxiliary Input (LINE)
    - Compatible with audio devices that use “P2” connections.
22. Function Keys
    -  Back / Vol –
        - **Quick Tap:** Returns to the previously played track or previous station (Radio).
        - Long Tap Decrease the player volume.
    -  Play / Pause
        1. **Quick Tap:** Plays or pauses the current track. In FM mode, this key can be used to search and store radio stations.
        2. **Long Tap:** Moves to the next folder (USB/SD mode only).
    -  Next / Vol +
        - **Quick Tap:** Skip to the next track in the playlist or next station (Radio).
        - **Long Tap:** Increases the volume of the player.
    -  Mode
        - **Quick Tap:** Changes the playback mode of the player.
        - Auxiliar (LINE)
        - Bluetooth (BLUE)
        - USB
        - SD
        - Radio FM
23. Bluetooth Function
    - This feature allows wireless audio playback from devices that have this technology.

Pairing and connecting your device to the STM 1003 via Bluetooth:



1. On the STM 1003, select the Bluetooth mode (BLUE) by pressing the MODE [M] key of the multiplayer module.
2. On your device, access the Bluetooth settings, and with Bluetooth ON, search for new devices.*
3. The STM 1003 should soon appear in your device list as BT STETSOM. Pair up, then your device will be connected and ready to be used for audio playback with the STM 1003.#

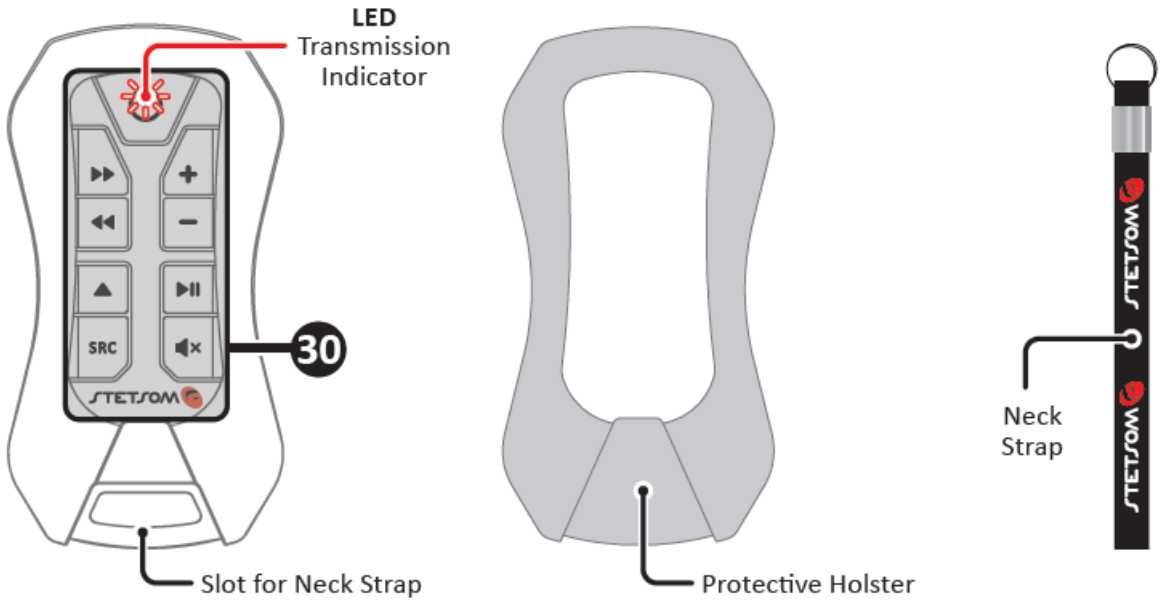


- The interface of your device may differ according to the brand or operating system. If you need help, refer to the manual of your device.
- When connected to a device, a new pairing is not allowed until the current device is disconnected from the STM 1003.
- If the device receives a call, audio playback stops and when the call is ended, the audio begins again from the point where it stopped.

Remote Control TXM

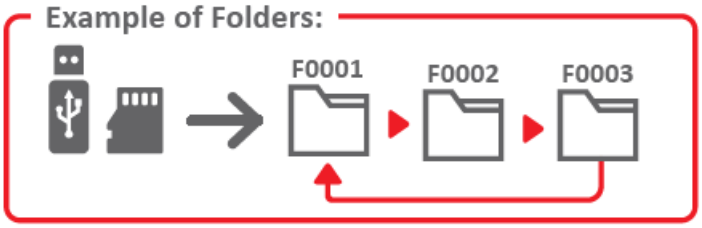
The STM 1003 features a TXM radio remote control that operates operates from up to 60 meters away (in open areas). It gives you practicality, security and full control of your music, even from a distance.

Control overview



24. TXM Control

- Power
  - **Long Tap:** Turns the STM 1003 on or off..
- Next
  - **Quick Tap:** Skip to the next track in the playlist or the next station (Radio).
- Back
  - **Quick Tap:** Go back to the last track in the playlist or the last station (Radio).
- Next Folder



  - **Quick Tap:** Advance to the next folder on the storage device.
  - (Available only in USB / SD mode).
- Source/Repeat
  - **Quick Tap:** Change the playback mode of the player.
    - Auxiliary (LINE)
    - Bluetooth (BLUE)
    - USB
    - SD
    - Radio FM

Long Tap: Change the playback mode of the track. (Only Available in USB/SD mode).

- Single (ONE)
  - This option makes one track to play repeatedly.
- Random (RAND)
  - This option makes the tracks to play at random.
- Folder (FOLD)
  - This option makes only the tracks in the current folder to play.
- All (ALL)
  - This option makes all of the device tracks on the device to play.

1. **+** Volume +
   - **Quick Tap:** Increases the volume of player.
2. **–** Volume –
   - **Quick Tap:** Decreases the volume of the player..
3. ⏯ Play/Pause
   - **Quick Tap:** Play or pause the current track. In FM mode, this key is used to search for radio stations.
4. 🔇 Mute/EQ
   - **Quick Tap:** Mute the player's audio.
   - **Long Tap:** Change the player's equalization mode.
   - (Available only in USB/SD/Bluetooth mode).
     - NORMAL (nor)
     - POP (pop)
     - JAZZ (jazz)
     - CLASSIC (clas)
     - FLAT (f laT)
     - ROCK (Roc)

Lock/Unlock Keys

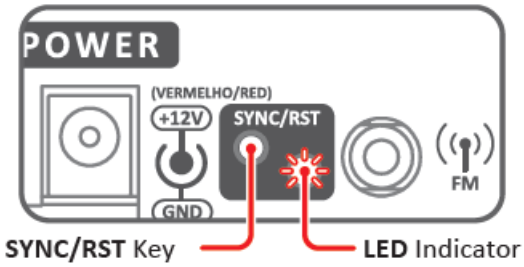
The TXM control has a lock to prevent the control keys from being accidently pushed. Follow these steps to lock and unlock the keys of your control:

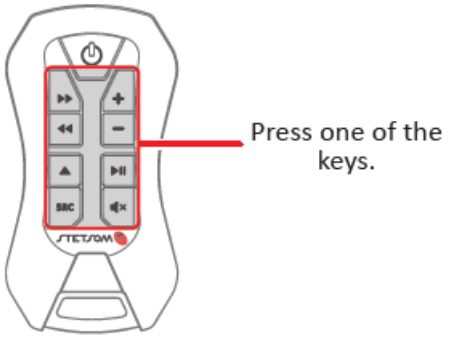
1. Press the POWER button. The control's transmission LED will remain on.
2. Press the SOURCE **SRC** and MUTE keys at the same time. The transmission LED on the control will blink 2 times indicating that the control is locked or it will blink 5 times indicating that the control has been unlocked.

Synchronization of the STM 1003

The STM 1003 and its TXM control are SYNCHRONIZED at the factory. If the owner purchases new TXM controls to use with the STM 1003, whether to replace the current control or to have more than one control, follow these steps:

Note: Before beginning the synchronization, make sure there are no other TXM controls operating within the range of the STM 1003 as they could interfere.

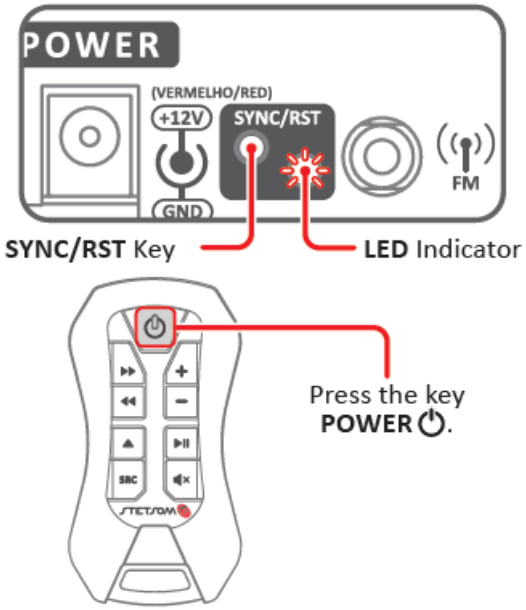




1. Press the SYNC/RST key on the rear panel of the STM 1003. The sound mixer's LED will blink for 15 seconds.
2. Press one of the TXM control's keys (except the POWER key)
3. The LED of the STM 1003 wil stop blinking. Sync is complete.

To synchronize more than one control (maximum 8), repeat steps 1 to 3. If more than 8 controls are synchronized, the newest control will override the oldest control.

Undo the Synchronization of a Single Control



1. Press the SYNC/RST key on the rear panel of the STM 1003. The mixer's LED will blink for 15 seconds.
2. Press and hold the POWER ⏻ key on the TXM control that you want to remove.
3. The LED of the STM 1003 wil sto blinking. The control has been successfully removed.

Undo the Synchronization of All Controls

- Press the SYNC/RST key on the back panel of the STM 1003 for 5 seconds.
- All the controls have been successfully removed.

Low Battery Indicator

When the battery is low, the transmission LED on the control and the LED on the back panel of the STM 1003 will remain on for 1 second after you release a key on the TXM control. We recommend that you replace the battery with a new battery model CR2032, since the control could stop transmitting efficiently. The TXM transmitter has a system that automatically shuts off any key that is pressed for more than 10 seconds to avoid unnecessary battery consumption. When you release the key, the system operates normally again.

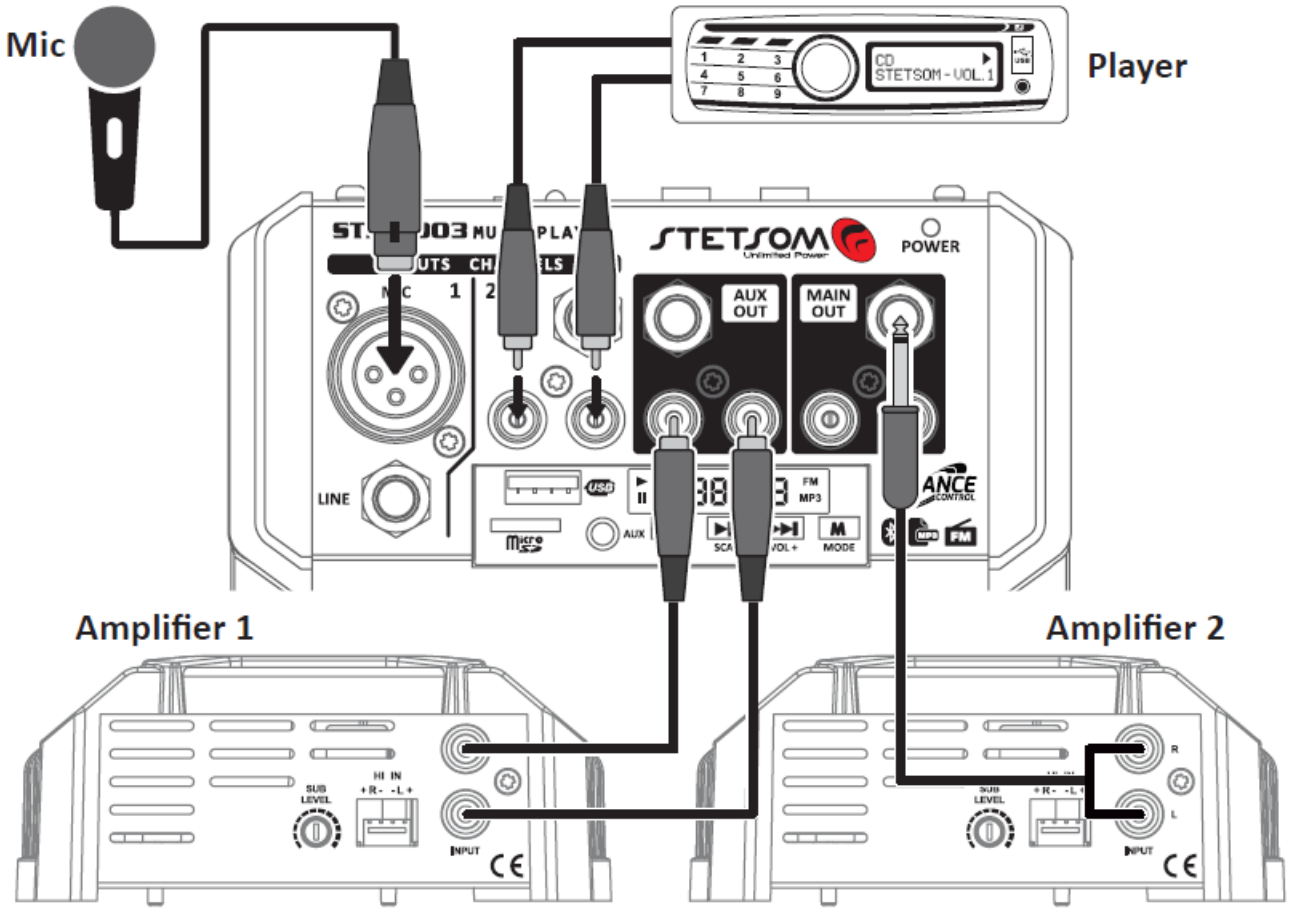
Replacing the TXM Control Battery

Remove the Holster, open the back of the control, remove the electronic board from its plastic housing and replace the discharged battery with a new one. Pay attention to the indicated polarity, the Clip must be in contact with the POSITIVE terminal of the battery.

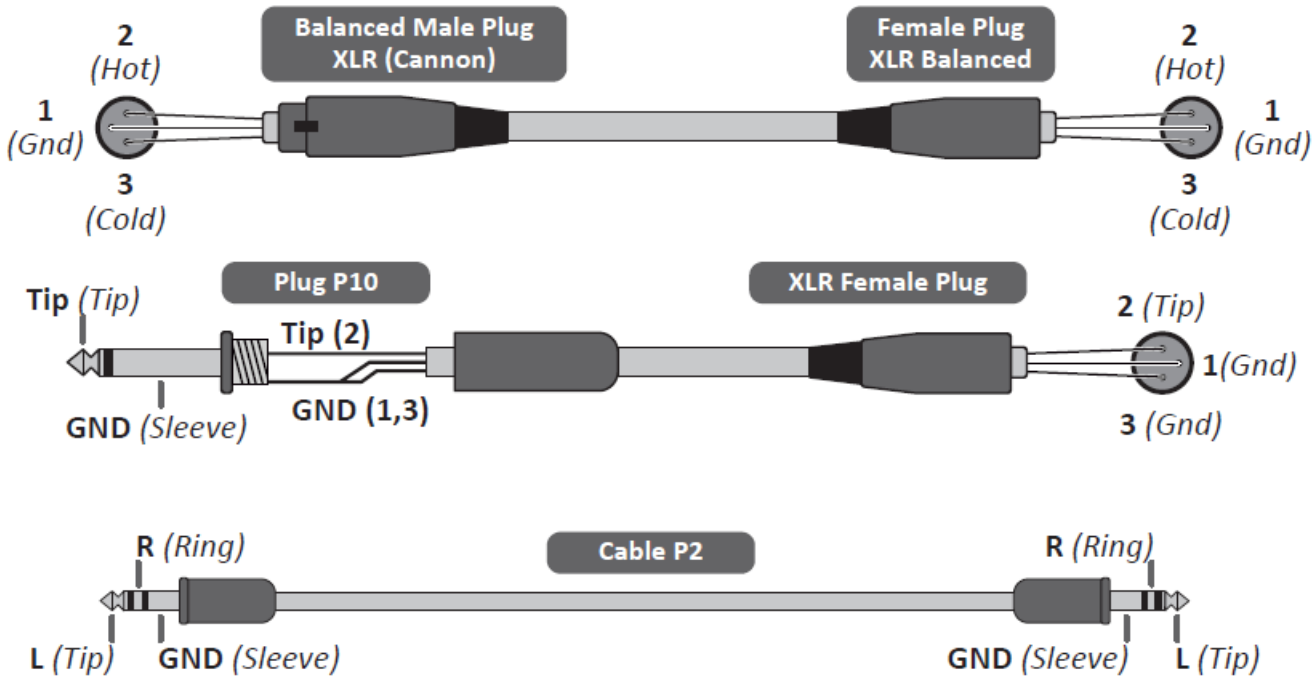
Loss of Synchronism

Loss of synchronization occurs when the TXM control's keys are pressed more than 250 times while it is out of range of the STM 1003. When this happens, the STM 1003 stops responding to the TXM control's commands and its indicator LED blinks permanently. Re-synchronize the control with the STM 1003 to restore operation.

Installation Example



Compatible Cables



Troubleshooting

DOES NOT TURN ON OR LED DOES NOT LIGHT UP:

- The power cables are not properly connected (terminals 12V, GND and REM).

- The power cables have a poor connection. Check the connections.
- REM without current. Check to see if the REM connection is receiving about +12V of current.
- Poor ground connection. Check the connections.

REMOTE CONTROL NOT SYNCHRONIZED WITH THE STM 1003:

- Follow the steps for “Synchronizing with the STM 1003”;
- Low battery in the control. Follow the steps for “Replacing the TXM Control Battery”

NO AUDIO SIGNAL:

- LEVEL controls of the channels or MAIN are at the lowest setting. Increase the setting.
- MUTE button of the channel is pressed. Unmute it by pressing the button again.
- The signal cables to the channels or Main are disconnected. Check the connections.

DISTORTED AUDIO SIGNAL:

- Distorted/saturated audio signal. Adjust the volume level of the signal source. Decrease the gain control of the STM 1003’s input channels.

UNDESIRABLE NOISES:

- All RCA and power cables must be checked for irregularities beforehand and corrected if necessary.
- Use suppression wires on the spark plugs.
- Route the incoming and outgoing RCA cables away from any other cables since they are more sensitive to interference.
- Install a separate power source (+12V) for the sound system.
- Ground the STM 1003 properly. To do this, remove the paint from the vehicle’s chassis at the selected point and connect the wire to a grounding terminal. In order to prevent rust, insulate it with paint.
- Place the STM 1003’s ground wire as close as possible to the ground wires of the other audio equipment that it is used with.
- Do not loop the ground wire. Avoid using multiple grounds. If possible, use a star connection where all the grounds run from a single point.
- If you use a 12V power source for the STM 1003 that is separate from the rest of the system, connect the ground (-) wires of all the sources together.

Protections

- **Short Circuit (Resettable Thermal Fuse):** 12V Input/Remote Output
- **Polarity Inverter:** 12V Input/Remote Input

Technical Specifications

Mixer STM 1003

Frequency Response (-3dB):	**1Hz ~ 75Khz**
Total Harmonic Distortion:	**<0.01% (T.H.D.)**
Signal to Noise Ratio (SNR):	**110dB**
Sensitivity of channel 1 inputs:	**Mic (XLR) Min: 840mV ~ Max 14mV** **Line (P10) Min: 1.8V ~ Max 26mV**
Sensitivity of channel 2 inputs:	**Line (P10/RCA) Min: 1.9V ~ Max: 45mV**
4 EQ bands per channel:	**Low ±15dB (80Hz)** **Mid Low ±15dB (500Hz)** **Mid High ±15dB (3K5Hz)** **High ±15dB (12KHz)**
Impedance of channel 1 inputs:	**Mic (XRL): Unbalanced 4KOhms** **Balanced 8KOhms** **Line (P10): Unbalanced 8.5KOhms** **Balanced 17KOhms**
Impedance of channel 2 inputs:	**Line (P10): Unbalanced 95KOhms** **Line (RCA): Unbalanced 95KOhms**
Output Impedance:	**Main Out (P10/RCA): 47R** **Aux Out (P10/RCA): 47R**
Maximum level of outputs:	**Main Out (P10/RCA): 16 dBu/4.9Vac** **Aux Out (P10/RCA): 16 dBu/4.9Vac**
Power Supply:	**9 ~ 16 Vdc**
Maximum Consumption:	**400 mA**
Remote Input (REM Connector):	**9 ~ 16 Vdc**
Remote Output (REM Connector):	**250 mA**
Dimensions (W x H x D):	**46.5 x 151 x 199,5 mm**
Weight:	**0.7 Kg**

 All parts of this product, including electrical and electronic components, must be recycled or reused and should not be disposed of as household waste. Look for a collection point for these materials and do your part to preserve the environment.

Multiplayer Module

Modes of Operation:	USB, SD, Auxiliary (LINE), FM and Bluetooth
Supported File Formats:	MP3 and WAV
Supported Sampling Rate:	32 ~ 320 Kbps
Supported Formatting System:	FAT16 and FAT32
Amount of Storage:	Up to 32Gb
Freq. Response (USB and Micro SD):	5Hz ~ 20KHz @ -3dB
Aux Input (Line In):	P2 (3.5mm)
AUX Input Sensitivity (P2)	860mV (Vol. of Player: 5)
(GAIN min. and LEVEL/MAIN max.):	375mV (Vol. of Player: 30)
Frequency Response (Auxiliary):	37Hz ~ 51KHz @ -3dB
FM Frequency Supported:	88MHz ~ 108Mhz
Bluetooth Compatibility:	Version 2.1 + EDR or newer
Bluetooth range:	Up to 10 Meters (Open area)
Number of Synchronized Controls:	Supports up to 8 controls

TXM Control

Frequency of Operation:	433.92 MHz
Maximum Transmission Power:	10mW
Modulation:	FSK
Safety:	Cryptography and Rolling
Remote Control Range:	60 Meters (Open area)
Battery Model:	CR2032 (3V)
Consumption @ 3.0Vdc:	0.01 mA (Min.) ~ 15 mA (Max.)
Key Lock System:	Yes
Key Lock Protection:	Yes
Easy Sync:	Yes
Compliance with Anatel:	Yes
LED Indicator:	Yes
Protection Hoster:	Yes
Dimensions (W x H x D):	16,5 x 39 x 74 mm
Weight:	0.027 Kg

Warning

- The specifications listed here are based on measurements taken in the STETSOM laboratory. Due to minor differences in the tolerances of the electronic components and manufacturing process, variations can occur in the values obtained.
- Any updates made in this manual will be available for consumer consultation free of charge on the brand site. It is recommended that the updated manual be consulted whenever necessary.

Warranty Information

STETSOM, through its network of Authorized Technical Assistance Providers, guarantees technical assistance to the purchaser of their products. The repairs of any defects duly established as being of the manufacturer will be

done without cost for replacement components or parts and repair labor. The repairs will be done by the Authorized Technical Assistance Provider specially designated by STETSOM.
CONSULT THE LIST OF AUTHORIZED TECHNICAL ASSISTANCE PROVIDERS ON OUR WEBSITE:
www.stetsom.com.br/en/assistencias-tecnica
If you do not locate technical assistance in your city, please contact us at BR +55 18 2104-9412

WARRANTY TERM CONDITIONS

- Our warranty is 1 (one) year against manufacturing defects. Its validity starts on the date of the Sale to the FINAL Consumer.
- To make use of the benefits of this warranty, you must present one of the following documents: the Final Consumer's SALE NOTE or this completed CERTIFICATE.

CASES THAT VOID THE WARRANTY

1. 1 year after the issuance of the invoice of sale to the consumer or 1 year of completing a certificate of warranty (dated and stamped by the retailer or installer) or 1 year from date of manufacture.
2. Violation of seals, alteration or removal of the product's serial or lot number.
3. If the product suffers misuse, careless accidents involving: Water, Fire or Fall, or is installed in conditions contrary to the guidelines contained in the installation manual that accompanies the product.
4. Damages and changes in the circuit or adaptation of non-original parts.
5. If you use installation techniques contrary to those given in the manual.

QUESTIONS AND ADVICE

STETSOM offers Customer Services to answer questions and give advice about their products and services. Please contact us through the channels: Phone: BR +55 18 2104-9412

- **FB:** /STETSOMBRASIL
- **Youtube:** /GRUPOSTETSOM
- **Insta:** /STETSOMBRASIL

Documents / Resources

	STETSOM STM 1003 Multi Player [pdf] User Manual STM1003, STM 1003 Multi Player, STM 1003, Multi Player, Player

References

- Stetsom - Stetsom
- Assistências TécnicaTechnical AssistanceAsistencias Técnica - Stetsom
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