

Instruction manual



T 0302
PLAYER
MULTICOLOR
CAR SOUND MIXER



The installation of this product must be made by a qualified professional.

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Term of warranty

TARAMPS, located on Abilio Daguano Street 274, Res. Manoel Martins – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-000, guarantees this product against any defects on terms of project, making, assembling, and/or with solidarity, due to project vices which cause it improper or inadequate to its original use within 12 months from the date of purchase. In case of defect during the warranty period, TARAMPS responsibility is limited to the repairing or substitution of the device of its own making.

This warranty excludes:

- Damaged products by improper installation, water infiltration, violation by unauthorized individuals;
- Tamper or torn warranty seal;
- Cases in which the product is not used in adequate conditions;
- Defects caused by accessories, modifications or features attached to the product;
- The product with damage from falling, bumps or nature related problems (flooding, lightning, etc.);
- Warranty card is not properly filled or torn;
- Costs involving uninstallation, reinstallation of equipment as well as shipment to the factory;
- Damage of any kind, due to problems in the product, as well as losses caused by discontinued use of the product.

Technical assistance

For international support, check on our website:

www.taramps.com.br/en/rede-de-assistencias-tecnicas or contact direct the factory support:

Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: service@taramps.com.br

Read this manual before installing the product. In case of questions contact our technical support: **+55 (18) 3266-4050** or **www.taramps.com.br**.



At the end of its lifespan, this product must not be disposed of in household waste. Look for an electronic equipment collection or recycling center for proper disposal.

Safety requirements

To ensure proper use, please read through this manual before using the car sound mixer. It is specially important that you know the **CAUTIONS** contained here.

- The installation of this product must be done by a qualified professional.
- Use the correct tools for installing this product.
- This product is for use with 12V batteries. Always check the voltage before installing.
- Never install the product in places exposed to dust, humidity and water. Pay attention to install it far from fuel tank, fuel lines, heat sources and other parts of vehicle.
- Be sure to install protection fuse or a circuit breaker near to battery. Follow the ampere rating as indicated here in this manual. Use of improper fuse or circuit breaker could result in overheat, smoke, damage to product, injury or burns.
- Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through car's body.
- Automotive sound systems may produce high sound pressure levels. Avoid continuous exposure to levels over 85dB to prevent permanent hearing loss.

Safety

As you read this manual, pay attention to the safety symbols.



This symbol with **"CAUTION"** is intended to alert the user to the presence of important instructions. Failure to heed the instructions will result in risk of injury to user or product damage.



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The **T 0302 PLAYER MULTICOLOR** mixer was designed for sound systems allowing the mixing of several types of audio signals with high fidelity, ensuring the original dynamics of the sound. It has a convenient MP3/WMA player, Bluetooth and FM built-in with long range remote control.

The Player accepts USB DRIVE up to 64GB size, containing MP3 and WMA audio files until 320Kbps bit rate (high quality). Its Bluetooth has the 4.0 version and operates under SBC/A2DP protocol.

It has a 4-band equalizer that allows you to increase or decrease specific ranges of bass, mid-bass, mid-high and treble, allowing professional control in any situation. Its outputs with timed MUTE avoid undesirable noises (Pops) when turned on or off, dispensing with the sequencing of activations, facilitating installation.

With a **total of 72 variable lighting effects**, causing a different visual effect for the user. See pages 08 and 09.

The **T 0302 FX MULTICOLOR** features 3 input channels, CHANNEL 1 is balanced with two shared connections, one XLR and one RTS. This is a high-sensitivity, wide-gain input, which allows the use of a Microphone or LINE IN.

CHANNELS 2 and 3 feature shared L+R type RCA inputs with an RTS connector for greater connection flexibility.

All 3 inputs have independent controls for:

- Gain for adjusting the input signal level.
- 4 EQ controls HIGH, MID HIGH, MID LOW and LOW with $\pm 15\text{dB}$ boost/attenuation.
- Level for output control.

The 2 outputs have great amplitude and can deliver up to $+18\text{dBu}$ or 6.3V_{ac} of distortion-free signal.

Important recommendations

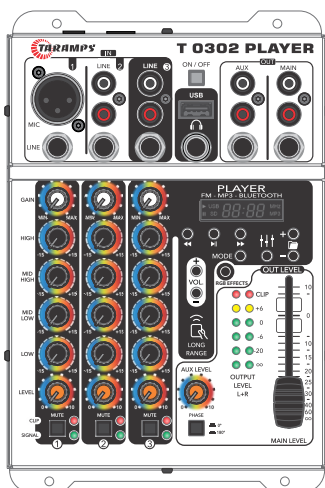
Use the P4 adapter with terminal that comes with the product to connect the power wires to the vehicle's 12V battery. Use 1.5mm^2 gauge wires for both the positive and negative wires. Screw the wires according to the following instruction:

- 1- Borne $\oplus$ on the battery positive
- 2- Borne $\ominus$ on the battery negative.

As protection, a fuse must be installed close to the positive pole of the battery (**2A fuse**). check for more details on pag. 16 of this manual. For the REMOTE connection, use 0.5mm^2 wire.

The sound mixer must be fixed in an easily accessible and ventilated place. It is not recommended to install the product on the sides of speakers, as vibrations can damage their internal components.

In order to avoid noise captation, use good quality shielded signal cables and connectors.



CAUTION

Check power polarity and recommended gauge.

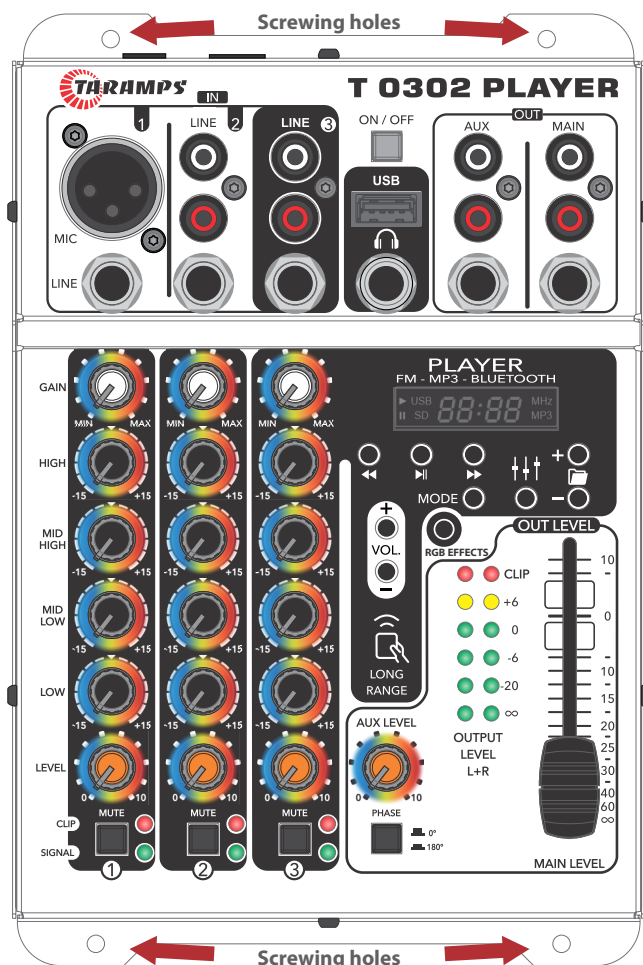
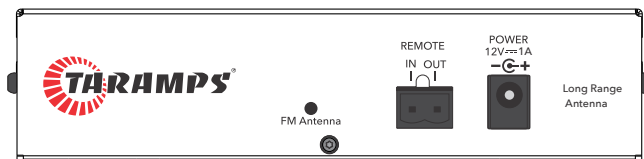
it is recommended to install a 2 Amperes fuse on the positive supply terminal.

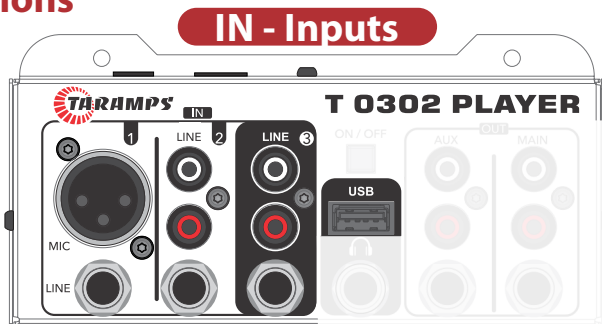
Product overview

ENGLISH

On this page you have an overview of the **T 0302 PLAYER MULTICOLOR** sound mixer, you will better understand the commands on the next page. To be able to use all the product commands, carefully read all the commands below.

Install the mixer in an easily accessible place and, if fixing is necessary, use the 4 screwing holes to avoid possible vibrations.





MIC / LINE 1

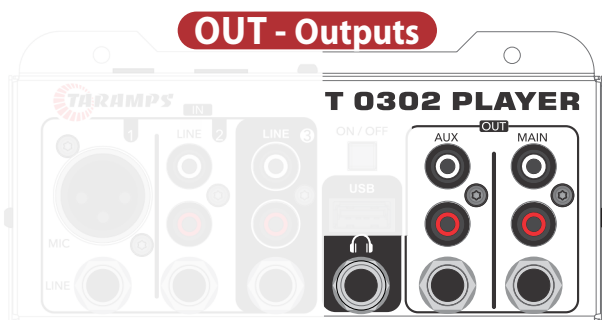
Balanced inputs for XLR (Canon) and TRS connectors. ATTENTION: these inputs DO NOT HAVE PHANTOM POWER.

LINE 2 3

Unbalanced inputs Inputs for RCA or (TRS 1/4") connector. They allow you to receive signals from several types of sound gear such as CD/DVD/MP3-player, audio processors, etc... The LINE 6 input shares the same controls as the built-in **PLAYER**, with the signals being downmixed on the input.h high level outputs.

USB

Input for USB Drive: USB input for USB DRIVE connection. This input accepts Mp3 and WMA files up to 320Kbps (high quality).



HEADPHONES

Audio output for headphones. Use headphones with P10 standard. This output only plays audio from the built-in **PLAYER** in stereo.

It is not possible to listen to channels 1, 2, and 3 through this output.

AUX OUT

It features an RCA connector in parallel with a connector for TRS. This output mixes all input signals, including L and R.

This output features a phase inversion button and independent level control, but it also responds to the **MAIN LEVEL** control.

MAIN OUT

It features an RCA connector in parallel with a connector for TRS. This output mixes all input channels, including R and L.

Controls

GAIN Adjusts the input signal level. It must be used in case of input saturation, signaled by the CLIP LEDs.

HIGH Increases or reduces **treble** by up to ± 15 dB

MID HIGH Increases or reduces **mid-high** by up to ± 15 dB

MID LOW Increases or reduces **mid-low** by up to ± 15 dB

LOW Increases or reduces **Low** by up to ± 15 dB

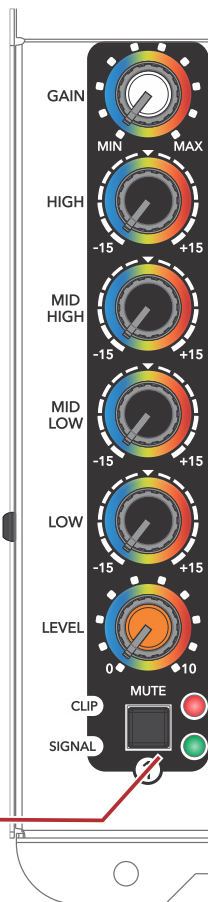
LEVEL CHANNELS Adjusts the audio level of the channel (channel 1, 2 or 3) that will be mixed at the outputs.

MUTE

Mutes the channel mixing at the outputs. It is useful for quick channel cutting without changing the gain settings. When activated, the red CLIP LED will light regardless of the input signal level.

LED INDICATORS

Red LED shows channel input saturation or MUTE button pressed. Green LED indicates that the channel is receiving signal at its input.

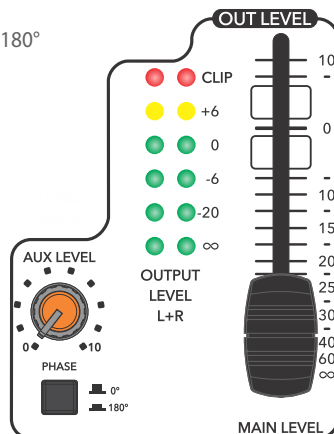


PHASE Inverts the signal phase of the AUX OUT channel by 180°

AUX LEVEL Adjusts the audio output level at AUX OUT

VU-METER Indicates the level of the output signal.

MAIN LEVEL Controls the signal level at the outputs.





ON/OFF: Turns the T 0302 PLAYER MULTICOLOR on or off. When the mixer is on, this key lights up in blue. This key is also used to synchronize the long-distance remote control, allowing the use of up to 3 controls simultaneously.

To sync a new remote, follow the instructions:

- 1- Make sure the T 0302 PLAYER MULTICOLOR is working.
- 2- With the T 0302 PLAYER MULTICOLOR OFF, press and hold the ON/OFF key for 10 seconds.
- 3- The key will alternately flash blue and red, indicating the synchronization mode between the mixer and the long-distance remote control.
- 4- On the long-distance control, press the synchronism keys

▶|| and ▲ simultaneously until the ON/OFF key goes off (check if the long-distance control is compatible*).

5- If it doesn't go off, bring the long-distance control closer to the T 0302 PLAYER MULTICOLOR with the synchronization keys ▶|| and ▲ pressed until the synchronization is done and the ON/OFF key goes off.

* The T 0302 PLAYER MULTICOLOR only works with a TARAMPS long-distance control operating at a frequency of 433.5MHz, FSK modulation with its own encryption.

All TLC3000 and Connect Control manufactured from 03/2014 to today's date are compatible with Player tables.

Player control



◀◀ goes back to the beginning of the track. Double tap, skip to previous track. Long press, rewinds playing track.
▶|| stops/continues playback of the current track.
▶▶ skips to the next track. Long press, skips forward in the currently playing track.

⚡ **EQ:** Changes the preset equalization. It has 5 modes, *flor* is equal FLAT or NATURAL equalization.

MODE: Short press: Changes the playback function between Bluetooth, USB and FM.

Long press: Turns off only the player, leaving other functions active.

📁 **Folder+:** Advances to the next folder.

📁 **Folder-:** Goes back to the previous folder. The root directory is usually the F001 folder.

Vol+: Increases the player's volume.

Vol-: Decreases the volume of the player.



Long range control

⬆ increases the volume of the player.

⬇ reduces the volume of the player.

▶|| stops/continues playback of the current track.

▶▶ skips to the next track.

◀◀ skips to the previous track.

▲ advances to the next folder.

▼ back to the previous folder.

⏻ Short press: Turns on the device / changes PLAYER function.

Long press: Turn off the device.

RGB EFFECTS

ENGLISH

The **T 0302 PLAYER MULTICOLOR** sound mixer has several lighting effects that can be chosen by the user. There are two operating modes that alternate depending on the state of the table:

STANDBY MODE: activated when there is no audio output for 10 seconds. At this moment, the RGB EFFECTS button will set the lighting effect to standby mode.

AUDIO MODE: activated when there is an audio signal output from the table. At this moment, the RGB EFFECTS button will configure the lighting effect for audio mode.



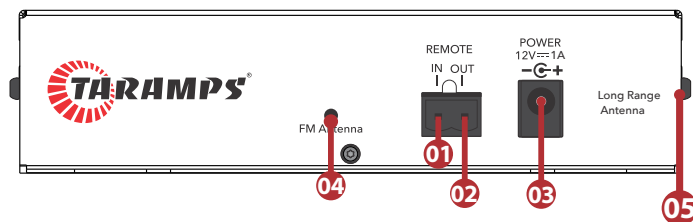
NOTE: VU-METER effects are only available in AUDIO MODE. This effect works with the output audio level and serves only as a lighting effect. For greater output level accuracy, use the LED VU-METER next to MAIN LEVEL.

STANDBY EFFECTS TABLE

0	turns off all RGB effect LEDs
1	changes the automatic effect randomly
2	rainbow effect with wave animation
3	horizontal lines falling and accumulating, changes colors automatically
4	vertical back and forth with white background and dots alternating colors
5	vertical fill in red
6	strobe effect in white
7	giroflex effect
8	matrix effect
9	fixed color: red
10	fixed color: orange
11	fixed color: yellow
12	fixed color: green
13	fixed color: green + cyan
14	fixed color: cyan
15	fixed color: blue
16	fixed color: purple
17	fixed color: pink
18	fixed color: pink + red
19	fixed color: faint white
20	fixed color: medium white
21	fixed color: strong white
22	palette per function: white gain / eq. blue / eco red / level orange
23	palette per function: white gain / eq. green / eco red / level orange
24	palette per function: white gain / eq. cyan / eco red / level orange
25	palette per function: white gain / eq. purple / eco green / level orange
26	palette per function: red gain / eq. purple / eco green / level blue
27	green background with white pimball animation
28	red background with white pimball animation
29	blue background with white pimball animation
30	purple background with white pimball animation
31	yellow background with white pimball animation
32	cyan background with white pimball animation
33	rainbow background with pimball (arcade) animation in white

0	turns off all RGB effect LEDs
1	muda o efeito automático aleatoriamente
2	vu-meter: green background, scale from green to red
3	vu-meter: green background, scale from blue to green
4	vu-meter: white background, range from green to purple
5	vu-meter: blue background, scale from blue to red
6	vu-meter: green background, scale from green to red
7	VU-meter: purple background, green/yellow/red scale.
8	rainbow effects with wave animation
9	horizontal lines falling and accumulating, changes colors automatically.
10	vertical back and forth with white background and dots alternating colors.
11	vertical fill in red.
12	strobe effect in white
13	giroflex effect
14	efeito matrix
15	fixed color: red
16	fixed color: orange
17	fixed color: yellow
18	fixed color: green
19	fixed color: green + cyan
20	fixed color: cyan
21	fixed color: blue
22	fixed color: purple
23	fixed color: pink
24	fixed color: pink + red
25	fixed color: faint white
26	fixed color: medium white
27	fixed color: strong white
28	palette per function: white gain / eq. blue / eco red / level orange
29	palette per function: white gain / eq. green / eco red / level orange
30	palette per function: white gain / eq. cyan / eco red / level orange
31	palette per function: white gain / eq. purple / eco green / level orange
32	palette per function: red gain / eq. purple / eco green / level blue
33	green background with white pimball animation
34	red background with white pimball animation
35	blue background with white pimball animation
36	purple background with pimball (arcade) animation in white
37	yellow background with white pimball animation
38	cyan background with white pimball animation
39	rainbow background with pimball (arcade) animation in white

Power and activation



The **T 0302 PLAYER MULTICOLOR** was designed to be used in car audio systems with a 12V battery, but it can also be used with an external 12V plug adapter with a current of at least 2A, which must be purchased separately (in this case, the consumer should pay attention to the adapter plug that should be standard P4-2mm). It has an ON/OFF button that eliminates the REMOTE IN connections.

It can automatically turn on and off by remote activation using the REMOTE IN connection. To do so, keep the ON/OFF key off (unpressed).

The REMOTE OUT connection can be used for powering amplifiers and is timed to minimize transients when turning the system on and off.

REMOTE IN 01

Connection that turns on or off automatically from a remote cable from a CD/DVD player. Use 0.5 mm² cable.

Note: if the ON/OFF button is pressed, the device will not turn off by remote activation.

REMOTE OUT 02

Output for activating other devices. It can be used to turn on amplifiers or other equipment as long as they have a remote input. This output is current limited and not suitable for currents greater than 100mA. Use 0.5 mm² or higher gauge cables.

12V POWER SUPPLY 03

Standard P4 / 12V 2mm power connector. Use the TERMINAL/P4 adapter that comes with the product or a 12V adapter source (adapter source doesn't come with the product).

Use a 0.75mm² cable for the connections and **use a 2A fuse on the positive wire as close as possible to the battery**, following the marking on the TERMINAL/P4 adapter:

⊕ to the battery's 12V positive terminal.

⊖ to the battery's negative terminal

CAUTION

Check power polarity and recommended gauge.

It is recommended to install a 2 Amperes fuse on the positive supply terminal.

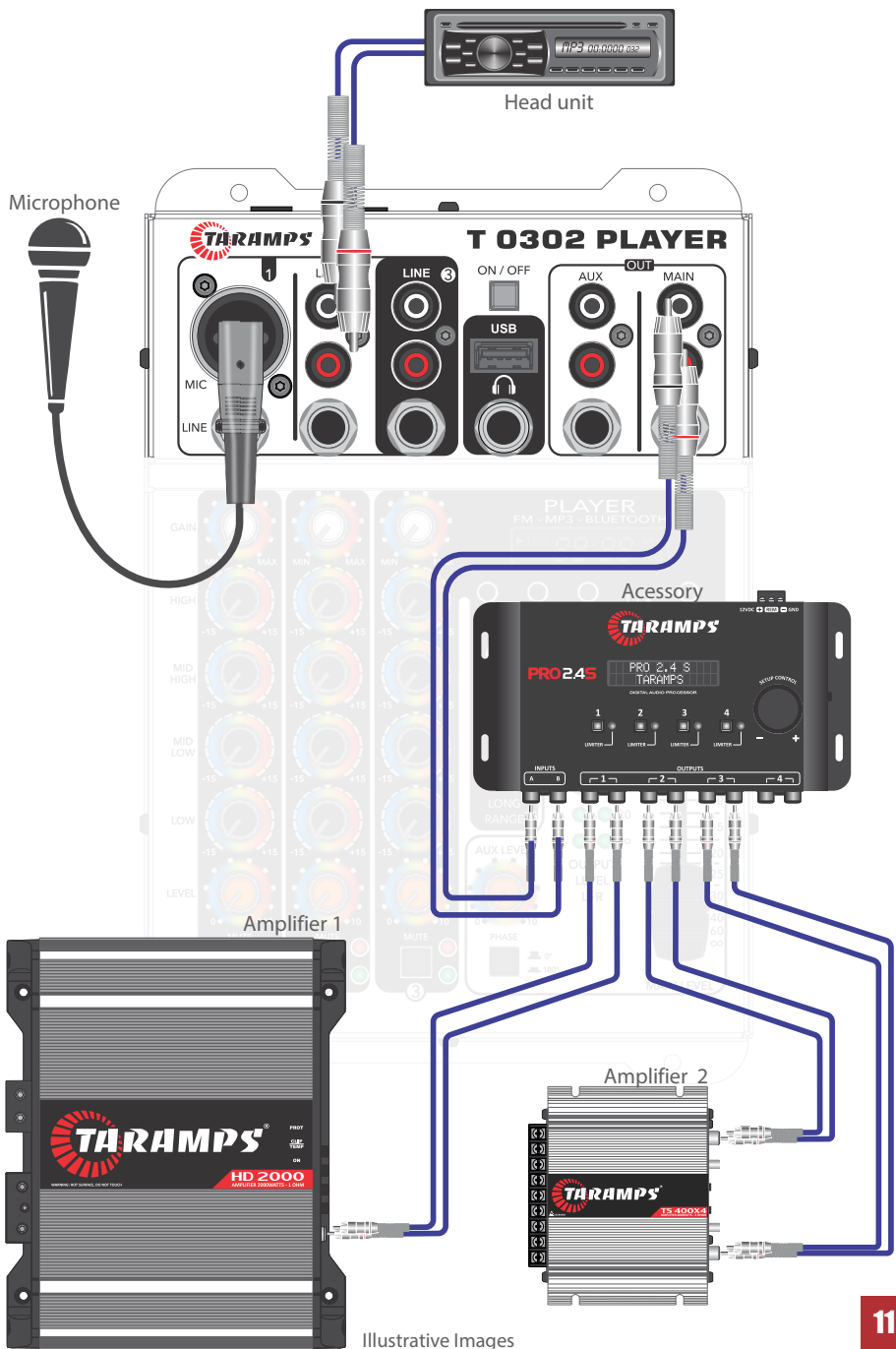
FM ANTENNA 04

Indoor wire antenna for FM radio reception. Position the wire antenna in order to achieve the best FM reception.

ANTENA DO CONTROLE REMOTO DE LONGA DISTÂNCIA 05

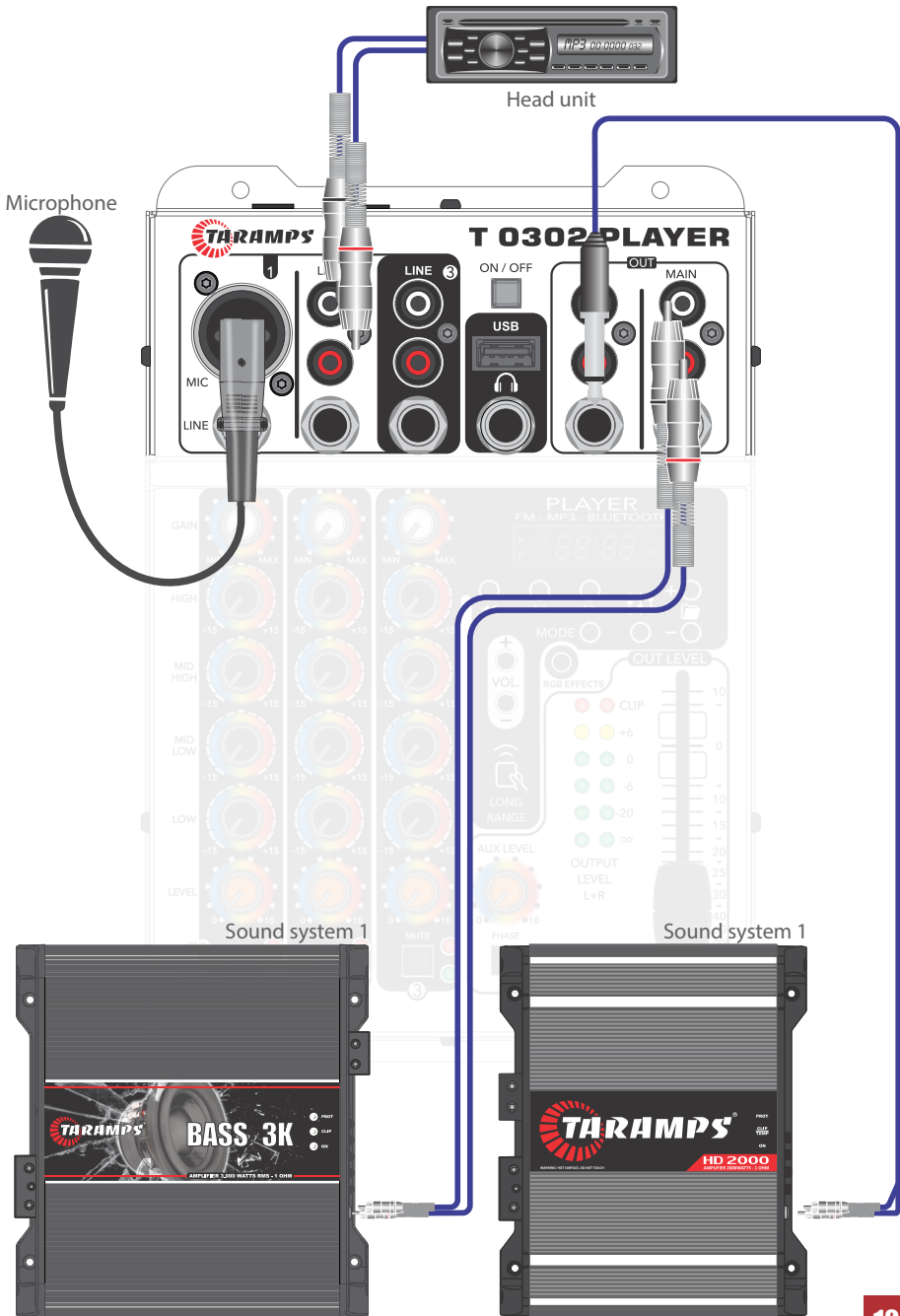
Keep the antenna taut for better reception. Do not cut or connect to earth or power supply as this may damage the device.

Connection examples - 1



Illustrative Images

Connection examples - 2



Technical features

ENGLISH

Frequency Response (-3dB):	2Hz ~ 76Khz
Total Harmonic Distortion:	<0,009% (T.H.D.)
Signal to Noise Ratio (SNR):	112dB
Channel 1 and 2 input sensitivity:	Mic (XLR) Min: 500mV ~ Max 7mV Line (TRS) Min: 620mV ~ Max 7.6mV
Channels 2/3 input sensitivity:	Line (TRS/RCA) Min: 2.55V ~ Max: 60mV
4 EQ bands per channel:	High ± 15 dB (12KHz) Mid High ± 15 dB (2.5KHz) Mid Low ± 15 dB (300Hz) Low ± 15 dB (80Hz)
Channel 1 input impedance:	Mic (XLR): Unbalanced 4K Ohms Balanced 8K Ohms Line (TRS): Unbalanced 8.5K Ohms Balanced 17K Ohms
Channels 2/3 input impedance:	Line (TRS): unbalanced 10K Ohms Line (RCA): unbalanced 10K Ohms
Bluetooth version:	4.0 SBC / A2DP
Audio format:	MP3 / WMA
Maximum bitrate:	320Kbps
FM:	87.5MHz to 108MHz
EQ mode:	POP, ROCK, JAZZ, COUNTRY, FLAT
Remote Control:	433.5MHz 10dBm
Output impedance:	Main Out (P10/RCA): 47R Aux Out (P10/RCA): 47R
Max outputs level:	Main Out (P10/RCA): 18 dBu/6.3Vac Aux Out (P10/RCA): 18 dBu/6.3Vac
Power Voltage (POWER):	9 ~ 16 Vdc
Max Consumption*:	1A
Remote Input (REM Connector):	9 ~ 16 Vdc
Remote Output (REM Connector):	100 mA
Dimensions (WxHxD):	148 x 42 x 220mm (5.83"x1.65"x8.66")
Weight:	0.76Kg (1.67lb)

*The consumption of the T0302 PLAYER MULTICOLOR may vary according to the effect used.



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