Instruction manual



T 0602
MULTICOLOR
CAR SOUND MIXER



Index ENGLISH

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Term of warranty

TARAMPS, located on Highway: Julio Budisk, SN, KM 30 – 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;
- $\bullet \textbf{Costs involving uninstallation, reinstallation of equipment as well as shipment to the factory; } \\$
- $\bullet \text{Damage of any kind, due to problems in the product, as well as losses caused by discontinued use of the product. } \\$

Technical assistance

For international support, check on our website:

 $\underline{www.taramps.com.br/en/rede-de-assistencias-tecnicas} \ or \ contact \ direct \ the \ factory \ support:$

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

E-mail: service@taramps.com.br

Introduction

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

Declaration of Conformity



TARAMPS ELECTRONICS LTDA Alfredo Marcondes - SP Brazil

Hereby, Taramps Electronics Ltda declares that the product T 0602 MULTICOLOR complies with the Directive 2014/30/EU, according with the following harmonized standard:

-EN 50498:2010 Electromagnetic compatibility (EMC) -Product family standard for aftermarket electronic equipment in vehicles

The full text of the EU Declaration of Conformity is available at the Product Page on Internet.



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 must be powered by the vehicle's power system or a 12V AC/DC adapter. 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 braker near to battery. Follow the ampere rating as indicated here in this manual. Use of improper fuse 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.

Presentation

The T 0602 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 4-band equalizer that allows you to increase or decrease specific ranges of bass, midbass, mid-high and treble, allowing professional control in any situation. It also has the Echo FX feature, which allows you to add the Echo effect to your songs or voice. 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 97 variable lighting effects + random mode effects, causing a different visual effect for the user. See pages 07 and 08.

The T 0602 MULTICOLOR has 6 input channels. The Channel 1 and 2 are balanced and have 2 input connectors: one XLR and other RTS type. It has a wide gain range, allowing microphones or LINE signal level.

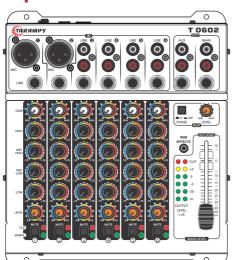
The 3, 4, 5 and 6 CHANNELS have shared RCA-type L+R inputs with a RTS type connector for greater connection flexibility. Built-in Player unit shares channel 6.

All 6 inputs have independent controls for:

- Gain for adjusting the input signal level.
- 4 EQ controls HIGH, MID HIGH. MID LOW and LOW with ±15dB boost/attenuation.
- Level for output control.

The 2 outputs have great amplitude and can deliver up to +18dBu or 6.3Vac 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 1.5mm² gauge wires for both the positive and negative wires. Screw the wires according to the following instruction:

- 1-Borne on the battery positive
- 2-Borne 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 0.5 mm² 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.



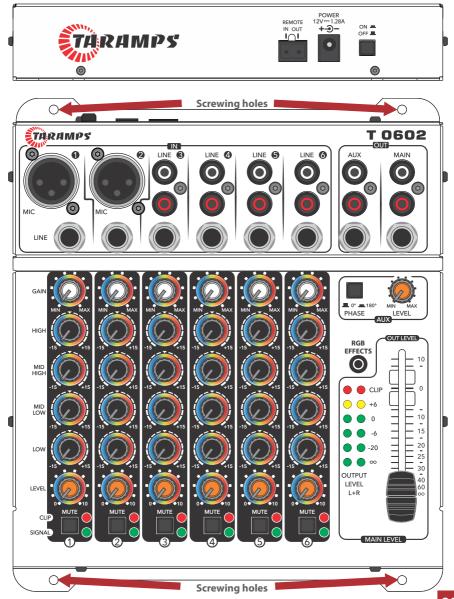
Check power polarity and recommended gauge.

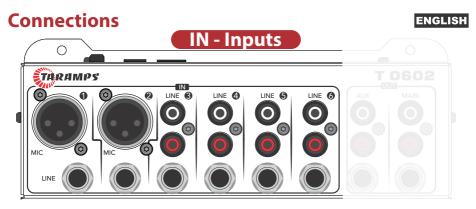
it is recommended to install a 2 Amperes fuse on the positive supply terminal.

Product overview

On this page you have an overview of the **T 0602 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.



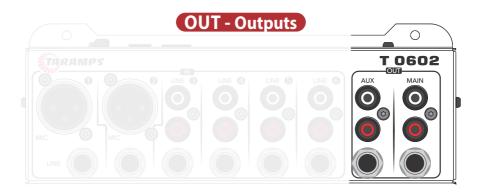


MIC/LINE 1 2

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

LINE 3 4 5 6

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, ...



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.

Functions

Controls

ENGLISH

HIGH

MID

MID

LEVEL

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 ±15dB

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

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

LOW Increases or reduces low by up to ±15dB

Adjusts the audio level of the channel (channel 1, 2, 3, 4, 5 or 6) 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.



MAIN LEVEL

06

RGB effects ENGLISH

The **T 0302 FX 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

STANDE	T EFFECTS TABLE
0	4 comets from red to green
1	4 comets from red to blue
2	4 comets from green to blue
3	4 comets from pink to purple
4	4 comets from blue to purple
5	4 comets from white to pink
6	rainbow effect with wave animation
7	horizontal lines falling and accumulating, changes colors automatically.
8	vertical back and forth with white background and dots alternating colors.
9	vertical fill in red.
10	strobe effect on white
11	giroflex effect
12	name TARAMPS going left
13	color bomb effect
14	matrix effect
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 by function: white gain / eq. blue / eco red / level orange
29	palette by function: white gain / eq. green / eco red / level orange
30	palette by function: white gain / eq. cyan / eco red / level orange
31	palette by function: white gain / eq. purple / eco green / level orange
32	palette by function: gain red / eq. purple / eco green / level blue
33	rainbow background with pinball animation in white / 1 dot
34	rainbow background with pinball animation in white / 2 dot
35	rainbow background with pinball animation in white / 3 dot
36	green background with white pinball animation
37	red background with white pinball animation
38	blue background with white pinball animation
39	purple background with white pinball animation
40	yellow background with white pinball animation
41	cyan background with white pinball animation

0	A compte from red to green		
1	4 comets from red to green 4 comets from red to blue		
	4 comets from green to blue		
3	4 comets from green to blue 4 comets from pink to purple		
4	4 comets from blue to purple		
5	<u> </u>		
6	4 comets from white to pink		
7	vu-meter: green background, scale from green to red vu-meter: green background, scale from blue to green		
8	vu-meter: white background, scale from green to purple		
9			
10	vu-meter: blue background, scale from blue to red vu-meter: green background, scale from green to red		
	vu-meter: green background, scale from green to red vu-meter: purple background, green/yellow/red scale		
11	vu-meter: purple background, green/yellow/red scale vu-meter: purple background, green/yellow/red scale		
13	rainbow effect with wave animation horizontal lines falling and accumulating, changes colors automatically.		
14			
15	vertical back and forth with white background and dots alternating colors.		
16	vertical fill in red.		
17	strobe effect on white		
18	giroflex effect		
19	name TARAMPS going left		
20	color bomb effect		
21	matrix effect		
22	fixed color: red		
23	fixed color: orange		
24	fixed color: yellow		
25	fixed color: green		
26	fixed color: green + cyan		
27	fixed color: cyan		
28	fixed color: blue		
29	fixed color: purple		
30	fixed color: pink		
31	fixed color: pink + red		
32	fixed color: faint white		
33	fixed color: medium white		
34	fixed color: strong white		
35	palette by function: white gain / eq. blue / eco red / level orange		
36	palette by function: white gain / eq. green / eco red / level orange		
37	palette by function: white gain / eq. cyan / eco red / level orange		
38	palette by function: white gain / eq. purple / eco green / level orange		
39	palette by function: gain red / eq. purple / eco green / level blue		
40	rainbow background with pinball animation in white / 1 dot		
41	rainbow background with pinball animation in white / 2 dot		
42	rainbow background with pinball animation in white / 3 dot		
43	green background with white pinball animation		
44	red background with white pinball animation		
45	blue background with white pinball animation		
46	purple background with white pinball animation		
47	yellow background with white pinball animation		
48	cyan background with white pinball animation		
49	vu-meter from the center out, BOMB style		
50	vu-meter from the center out, BOMB style		
51	vu-meter from the center out, BOMB style		
52	vu-meter from the center out, BOMB style		
53	vu-meter from the center out, BOMB style	08	
54	vu-meter from the center out, BOMB style	UU	

Installation

Power and activation



The **T0602 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

 $Electrical connection that automatically turns on or off from a remote cable from a CD/MP3 player. Use 0.5 \\ mm^2 gauge cable. Note: if the ON/OFF button is pressed, the device will not turn off via remote activation.$

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 $0.5 \, \text{mm}^2$ or higher gauge cables.

12V POWER SUPPLY 03

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

Use a 0.75mm² cable for the connections and use a 1A 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



Check power polarity and recommended gauge.

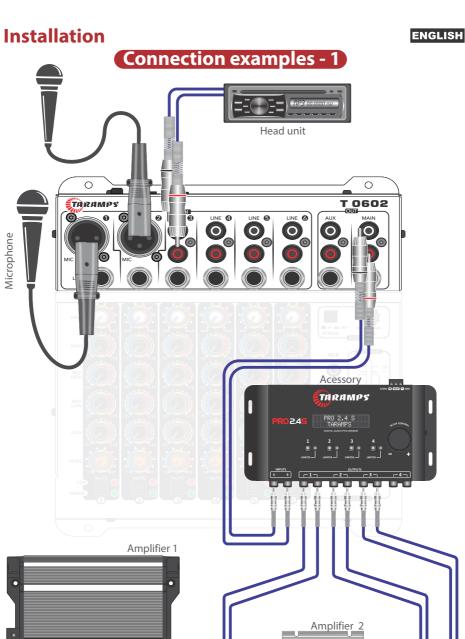
it is recommended to install a 1 Ampere fuse on the positive supply terminal.

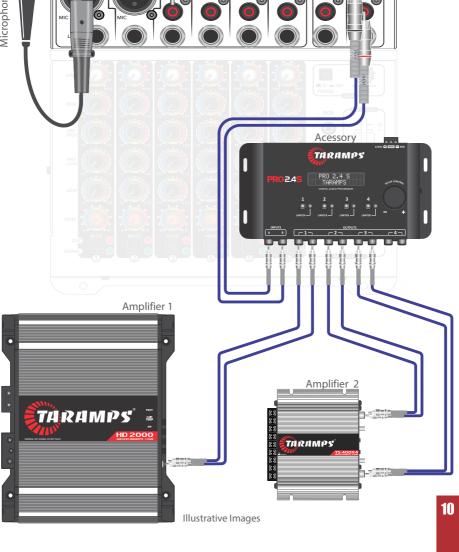
ON/OFF BUTTON



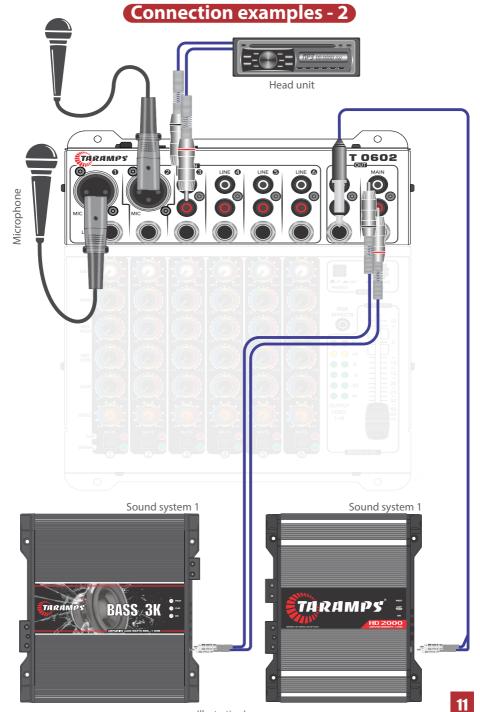
Turns on the device regardless of the REMOTE IN signal when pressed.

If the REMOTE IN input is active (remote on) this button will not turn off the device until the REMOTE IN input is deactivated.





Installation ENGLISH



Technical features



Frequency Response (-3 dB):	2 Hz ~ 76 Khz
Total Harmonic Distortion:	<0,009% (T.H.D.)
Signal to Noise Ratio (SNR):	112dB
Channels 1 and 2 input sensitivity:	Mic (XLR) Min: 500 mV ~ Max 7 mV
Channels Tand 2 input sensitivity:	Line (TRS) Min: 620 mV ~ Max 7.6 mV
Channels 3~6 input sensitivity:	Line (TRS/RCA) Min: 2.55V ~ Max: 60 mV
4 EQ bands per channel:	High ±15 dB (12 KHz) Mid High ±15 dB (2.5 KHz) Mid Low ±15 dB (300 Hz) Low ±15 dB (80 Hz)
Channels 1 and 2 input impedance:	Mic (XLR): Unbalanced 4K Ohms Balanced 8K Ohms Line (TRS): Unbalanced 8.5K Ohms Balanced 17K Ohms
Channels 3~6 input impedance:	Line (TRS): unbalanced 10K Ohms Line (RCA): unbalanced 10K Ohms
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:	1.28 A*
Remote Input (REM Connector):	9 ~ 16 Vdc
Remote Output (REM Connector):	100 mA
Dimensions (WxHxD):	194 x 42 x 220 mm (7.64" x 1.65 x 8.66")
Weight:	1.00 Kg (2,2 lb)

 $^{{\}rm *The\,consumption\,of\,the\,T\,0602\,MULTICOLOR\,may\,vary\,according\,to\,the\,effect\,used.}$





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