

itC T-2S01 Pre Amplifier



itC T-2S01 Pre Amplifier Instruction Manual

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itC T-2S01 Pre Amplifier



Product Information

- **Specifications**
 - **Product:** Public Address System Pre Amplifier T-2S01
 - **Channels:** 10 MIC/LINE Inputs

- **Master Volume:** 2 Levels
- **Output Level:** 0-10
- **Power:** Standard AC Power Supply

The T-2S01 Pre Amplifier is a versatile public address system component designed for professional audio applications. With 10MIC/LINE inputs, 2 master volume levels, and adjustable output levels, this preamplifier offers flexibility and control over audio signals.

Product Usage Instructions

• Safety Precautions

- Before using the preamplifier, carefully read and follow all safety precautions outlined in the manual. It is important to understand and adhere to the safety symbols and messages provided to prevent any potential hazards.

• General Description

- The T-2S01 Pre Amplifier is a high-quality audio device suitable for various public address applications. It offers multiple input channels, master volume control, and adjustable output levels for precise audio management.

• Features

- 10 MIC/LINE Inputs for versatile connectivity
- 2 Master Volume Levels for fine-tuning audio output
- Adjustable Output Levels (0-10) for controlling signal strength

• Nomenclature and Functions

- The preamplifier features front and rear panels with designated controls for each input channel, master volume, and output level. Familiarize yourself with the functions of each control for efficient operation.

• Applications

- The T-2S01 Pre Amplifier is suitable for various applications including public address systems in schools, offices, auditoriums, and more. It can be used to amplify microphone or line-level audio signals with precision.

FAQs

• Q: Can the T-2S01 Pre Amplifier be used with external speakers?

- **A:** Yes, the preamplifier can be connected to external speakers for audio output. Ensure compatibility and proper connection for optimal performance.

• Q: How many master volume levels does the T-2S01 Pre Amplifier have?

- **A:** The preamplifier features 2 master volume levels that allow users to adjust the overall audio output according to their requirements.

SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

- Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage that could result from mishandling.
- Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety.
- **WARNING** Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.
- **CAUTION** Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

WARNING

• When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, or otherwise damage or modify the power supply cord.
- In addition, avoid using the power cord close to heaters, and never place heavy objects — including the unit itself — on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slant surface. Doing so may result in the unit falling, causing personal injury and/or property damage.

• When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet, and contact your nearest dealer.
- Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
- If you detect smoke or a strange smell coming from the unit.
- If water or any metallic object gets into the unit
- If the unit falls, or the unit case breaks
- If the power supply cord is damaged (exposure of the core, disconnection, etc.)
- If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest **ITC** dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

CAUTION

• When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock.
- When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover.
- Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

• When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to a minimum position before power is switched on.
- Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your **ITC** dealer as to the cleaning.
- If dust is allowed to accumulate in the unit over a long period, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the building.

GENERAL DESCRIPTION

- The T-2S01 series is equipped with a preamplifier.
- They are designed to suit all PA system applications in schools.
- Home. offices and stores.

FEATURES

• CHIME SIGNAL

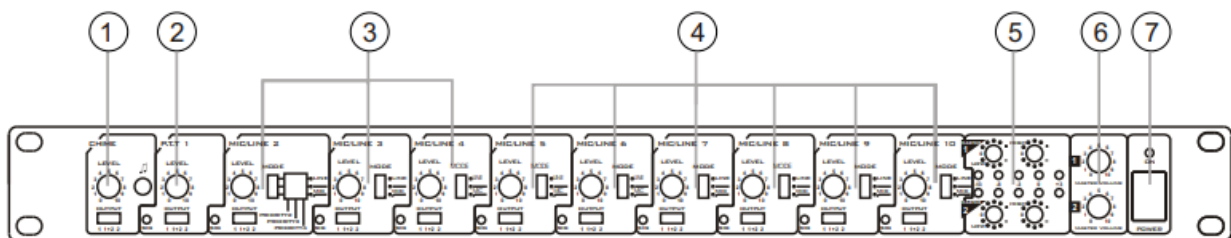
1. Selective two-tone/four-tone chime(Internal setting)
2. Automatic priority

3. Permissible external chime remote and p.t.t remote

- Master 1,2 output
- Two band eq per output
- Signal indicator per input
- Independent din jack for p.t.t remote
- Priority switch and phantom of mic 2,3,4
- Selective mic input of h.p.f
- Selective output per input signal(output 1,output1+2,output 2)
- Independent line input with RCA pin jack (line 7~10)
- Recording output
- Led indicator for master output
- AC/DC 24V

NOMENCLATURE AND FUNCTIONS

FRONT PANEL



1. CHIME

- Pressing the chime switch, the chime signal will be activated as a pre-signal. You can adjust the level.
- **OUTPUT SWITCH**
 - This is for the selector that sends a chime signal to the master output. The Chime signal has a priority When the chime signal is activated, the signal output of input 5~10 will be closed.
 - **IMPORTANT NOTICE:** Priority will be given only for selected output.



2. INPUT1 CONTROLS

- Adjust the level volume so as not to turn on the +3CLIP LED under two or clocks of master volume this is control For the mic input level.
- **OUTPUT SWITCH**
 - This is a selector that sends a signal of input 1 to the master output. when input 1 is activated, a signal of input 5~10 will be closed.

3. INPUT 2,3,4 CONTROLS

- Adjust the level volume so as not to turn on +3LED under two or more clocks of master volume this is control for MIC/LINE input closed.
- **OUTPUT SWITCH**
 - This is a selector that sends a signal of input 2,3,4 to the master output. when input 2~4 is activated, a signal of input 5~10 will be closed.
- **MODE SWITCH**
 - **MIC:** It is an input mic switch of 300Hz H.P.F that makes a sound clearance.when you select Switch

, windy sound.

- **MIC:** This is a MIC input switch Without a filter line.
- **LINE:** Line input for CD CASSETTE, TUNER.
- **IMPORTANT NOTICE:** Serecting mode switch “  ” (HPF) ‘  ” (flat) power will be supplied to input XLR connector for condenser mic only. If you connect an unbalanced dynamic microphone with them,it may default and should be moving to a mode switch for noise Down.
- **PRIORITY 2~4** When you switch on, priority is activated and will close input 5~10.

4. INPUT 5~10 CONTROLS

- These make adjustments of MIC/LINE For input 5~10.
- Adjust output level so as not to tune on CLIP LED under two o'clock.
- **OUTPUT SWITCH**
 - This is a selector that sends a signal of input 5~10 to the master output.
 - When input 1~4 signal and chime signal are supplied, priority will be activated and close output of input 5~10.
 - This is a selector that sends a signal of input 2,3,4 to the master output when inputs 2~4 are activated, the signal of input 5~10 will be closed.
- **MODE SWITCH**
 - **MIC:** It is an input mic switch of 300Hz H.P.F that makes a sound clearance.when you select Switch , windy sound.
 - **MIC:** This is a MIC input switch Without a filter line.
 - **LINE:** Line input for CD CASSETTE, TUNER
 - **IMPORTANT NOTICE:** Serecting mode switch HPF flat power will be supplied to input XLR connector for condenser mic only. If you connect an unbalanced dynamic microphone with them, it May be the default and should be Minimized level volume before moving to the mode switch for noise Down.

5. EQUALIZER

- Adjust low, high if EQ volume
- According to condition.

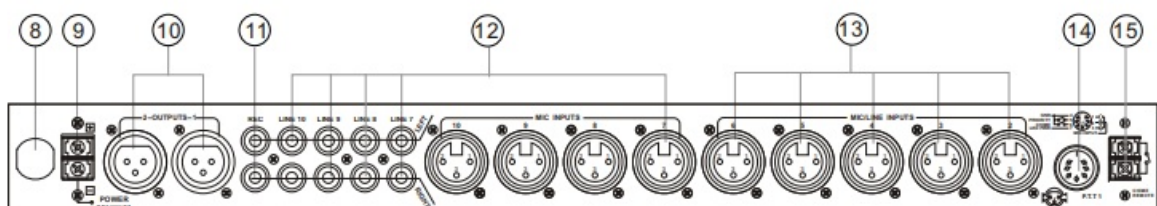
6. MAST 1,2

- This is the master volume for all input levels you and better use toward two o'clock adjust level before clipping for proper operation.

7. POWER SWITCH

- Press to turn ON the power.
- Press again to turn the power OFF.

• REAR PANEL



8. AC POWER

- Be sure to check the AC voltage. Use fuse approved.
- **IMPORTANT NOTICE:** Be sure not to make a shorten for the battery and polarity of battery.

9. DC POWER

- DC 24V power input

10. OUTPUTS 1,2

- These are master outputs that can be selected by switch.

11. RECORDING

- Recording outputs two L, R unbalanced RCA jacks are converted into stereo signals in the internal circuit from a mono signal.
- Recording output volume can not be controlled by the master volume controller because the circuit of recording output controls is just in the before master volume controls.

12. LINE 7~10

- LINE 7~10 unbalanced two L, R RCA jack are converted into mono in the internal circuit all line input – 10dB(245mV) input level is for cassette deck, CD, dat deck, tuner.

13. MIC/LINE INPUT 2~6

- MIC/LINE balanced input can be selected by the mode switch in the front panel.
- **IMPORTANT NOTICE:** When you select MIC input, the operating voltage is only for the condenser microphone if you connect the dynamic microphone balance by mistake, the microphone will be out of work also, be sure not be insert the mic input connector under level volume-up, as the speaker systems may get damaged due to big noise.

14. P.T.T. 1

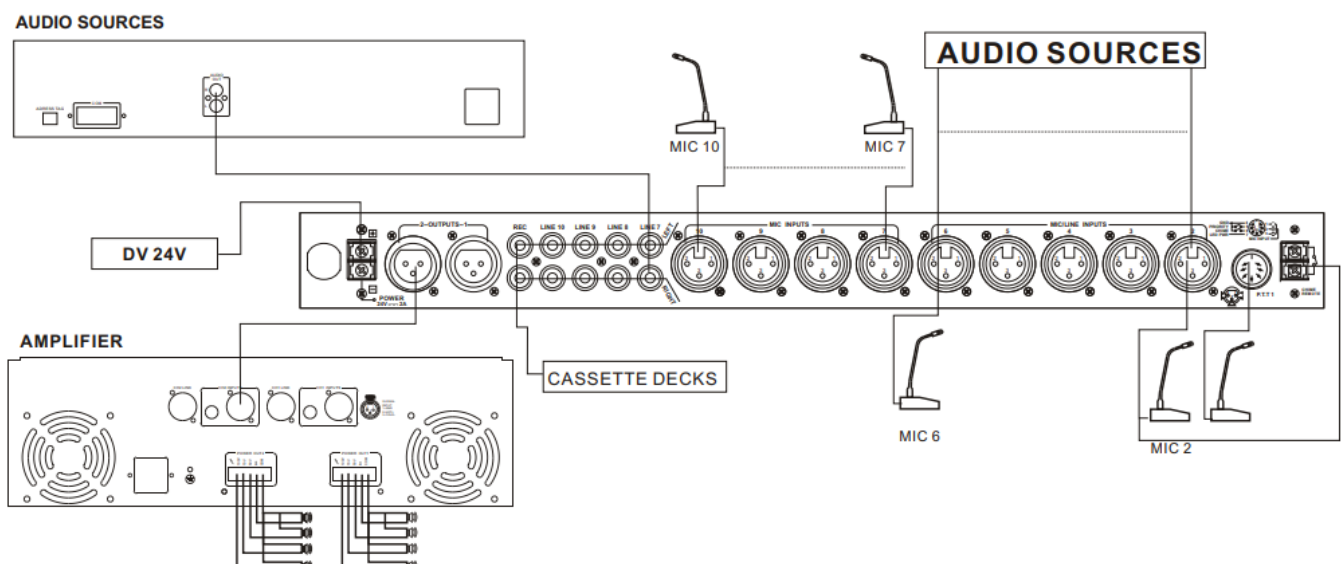
- Connect this terminal with T-621 priority and chime controls are activated from T-621 (P.T.T remote) and the Microphone cable with shield can be extended at the max 30m.
- **IMPORTANT NOTICE:** Be sure not to make a shorten to the ground because microphone signal +, - is for operating power of the condensor microphone.

15. CHIME REMOTE TERMINAL

- This is a terminal for the chime signal.

APPLICATIONS

REAR PANEL CONNECTIONS

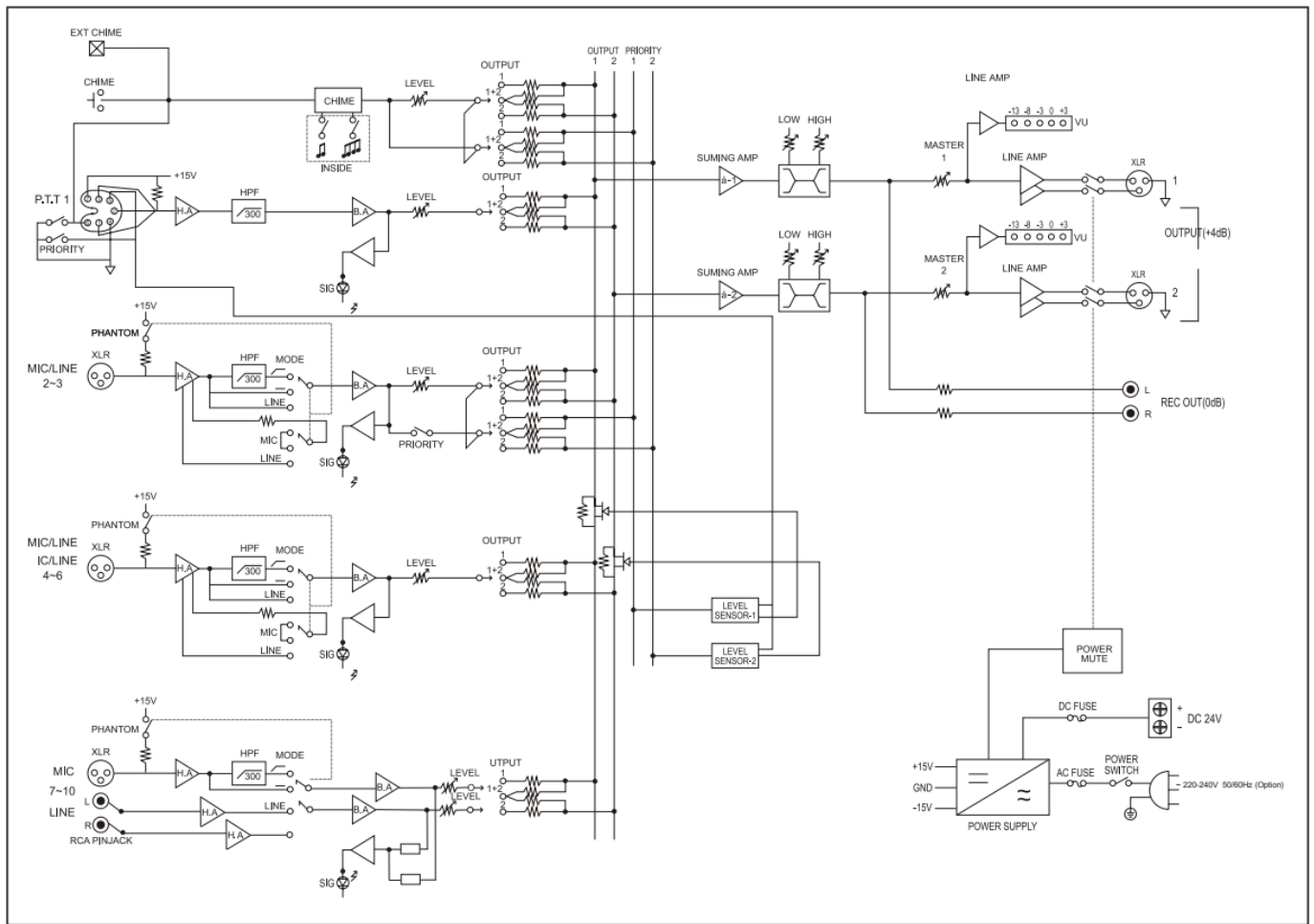


SPECIFICATIONS

PRE-AMPLIFIER

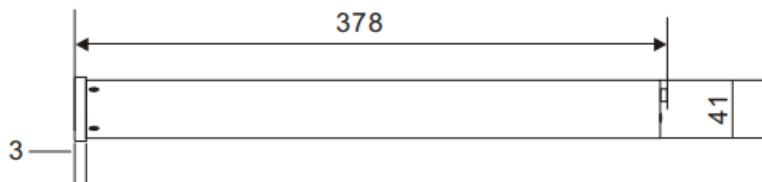
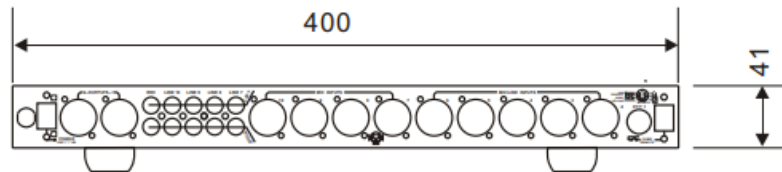
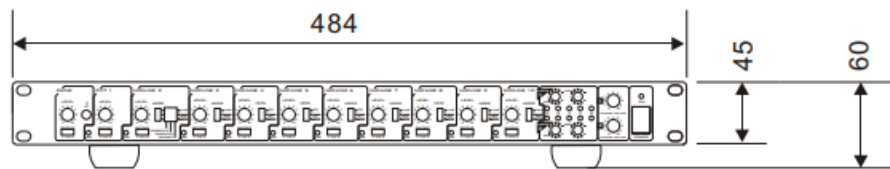
- **MODEL**
 - T-2S01
- **INPUT SENSITIVITY/IMPEDANCE**
 - **MIC/LINE:** -5dBu(2.45mV)/5Kohms BAL -10dBu(245mV)/5Kohms BAL
 - **LINE RCA IN:** -10dBu(245mV)/10Kohms UNBAL
- **OUTPUT LEVEL/IMPEDANCE**
 - **MASTER 1,2:** NOR +4dBu(21.23V)/200ohms BAL
 - **REC:** NOR 0dBu(0.775mV)/10K UNBAL
- **OUTPUT LEVEL/IMPEDANCE**
 - **MASTER 1,2:** NOR +4dBu(21.23V)/200ohms BAL
 - **REC:** NOR 0dBu(0.775mV)/10K UNBAL
- **FREQUENCY RESPONSE**
 - Less Than -0.5dB(20Hz~20KHz)
- **SIGNAL-TO-NOISE RATIO**
 - **MIC:** MORE THAN 60dB
 - **LINE:** MORE THAN 0.03%
- **CROSS-TALK**
 - **MIC:** MORE THAN 60dB
 - **LINE:** MORE THAN 75dB
- **POWER CONSUMPTION**
 - 13W
- **POWER CONSUMPTION**
 - ~ 220-240V 50/60Hz (Option)
- **DIMENSION(mm)**
 - 484X378X45
- **NET WEIGHT**
 - 5.52Kg
- **GROSS WEIGHT**
 - 6.65Kg

BLOCK DIAGRAM



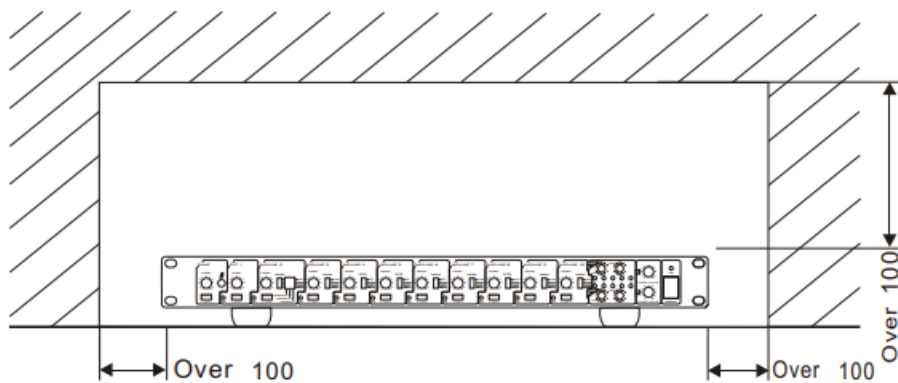
DIMENSIONAL DIAGRAM

UNIT: mm

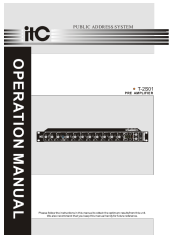


Keep the unit's all sides over 10 cm away from objects that may obstruct airflow to prevent the unit's internal temperature rise.

UNIT: mm



- Version V0.3



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T-2S01 Pre Amplifier, T-2S01, Pre Amplifier, Amplifier

References

- [User Manual](#)

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