

MIPRO[®]

User Guide

ACT-71TC / ACT-72TC

Rechargeable Bodypack Transmitter

MIPRO[®]
MICROPHONE PROFESSIONALS

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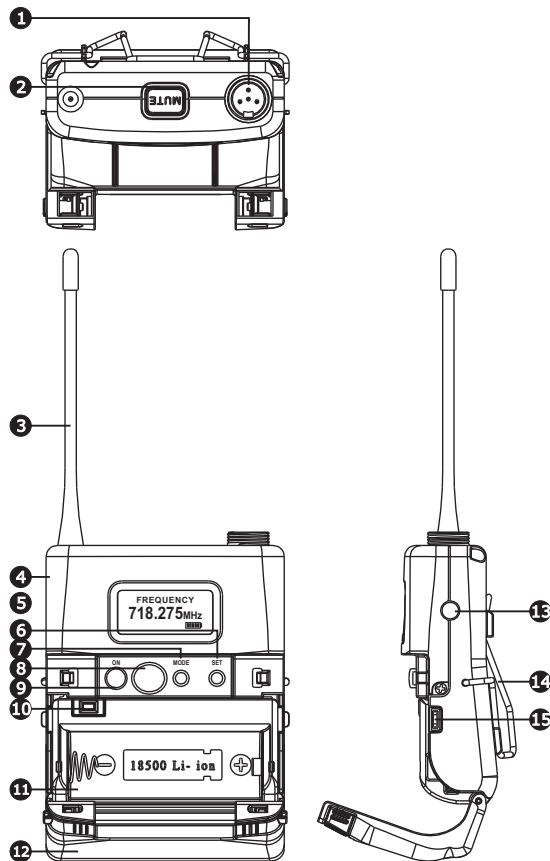
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Specifications and design subject to change without notice. MN 014/03



Contents

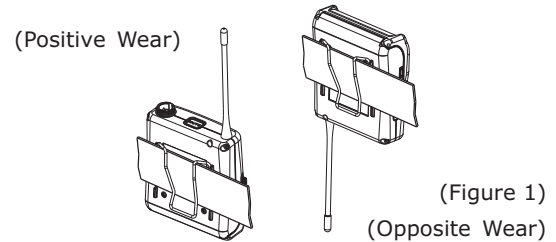
- 1 Bodypack Controls and Indicators
- 3 Operating Instructions
- 4 LCD Display Screen
- 5 Transmitter Parameters
- 11 Battery Status
- 13 Setting MUTE
- 15 AF Input Connections
- 16 Battery Removal and Installation

Bodypack Controls and Indicators



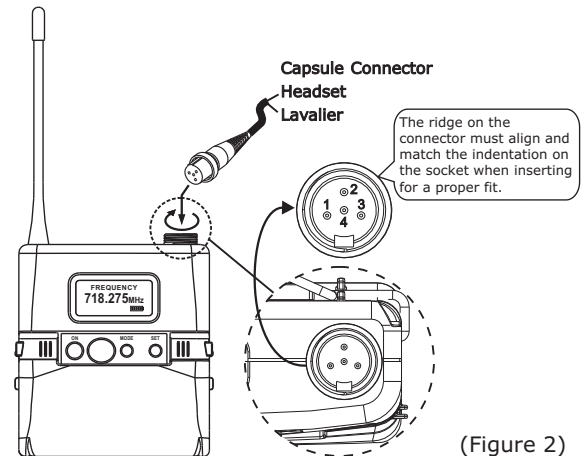
- 1 Audio Input Connector:** TA4F mini 4-pin connector accepts any MIPRO lavalier, instrument and headset microphones and cables. (See 5 ways of connection on AF Input Connections)

- ➊ **MUTE Button:** To mute and un-mute the audio signal temporary.
- ➋ **Antenna:** Flexible 1/ 4 wave transmitting antenna.
- ➌ **Transmitter Housing:** Holds PCB board and wires.
- ➍ **LCD Panel:** Display transmitter parameters.
- ➎ **SET Button:** Parameter selection button.
- ➏ **MODE Button:** Allows access to available functions displaying in LCD panel.
- ➐ **ACT IR Port:** Align and syncs the transmitter and receiver frequency automatically.
- ➑ **Power Button:** Press and hold 2 seconds to power ON or OFF.
- ➒ **Battery Circuitry Protection Reset Button**
- ➓ **Battery Compartment:** Accommodates one 18500 rechargeable battery.
- ➔ **Battery Cover:** Hinged cover opens to provide access to one 18500 rechargeable battery.
- ➕ **External Mute Connector:** When an external mute switch cable, MJ-70 (optional) is connected , user can manually mute and un-mute the audio temporary.
- ➖ **Belt Clip:** Detachable and reversible design allows the transmitter to be worn on a belt, waistband, or guitar strap (Figure 1).
- ➗ **Battery Charging Contact:** Align contacts during charging.

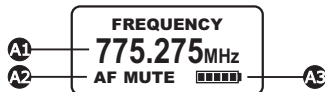


Operating Instructions

- Insert the lavalier, headset microphone or instrument cable into the audio input connector before power ON the transmitter.
- Tighten the connector screw clockwise direction as shown in (Figure 2) for a secured fit.



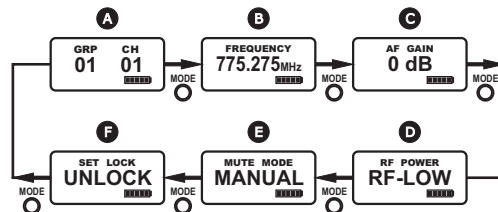
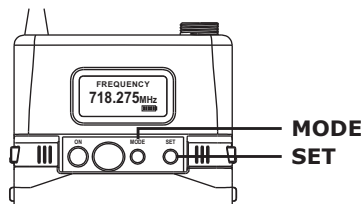
LCD Display Screen



- A1** LCD Screen
- A2** AF (audio) MUTE
- A3** Transmitter Battery Meter

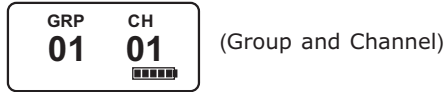
Transmitter Parameters

- **MODE** button
Press "**MODE**" button to access one of the functions below.
- **SET** button
Press "**SET**" button then the changeable functions will twinkle. Change to the desired parameters during the above twinkle by pressing "**SET**" button.



- A** Group and Channel
- B** Frequency
- C** Sensitivity Level
- D** RF Output Power
- E** MUTE Mode
- F** Parameters Lock & Unlock Status

- Group & Channel and Frequency are factory pre-set, thus, its parameter values are displayed after it is ACT synced. Values cannot be changed.

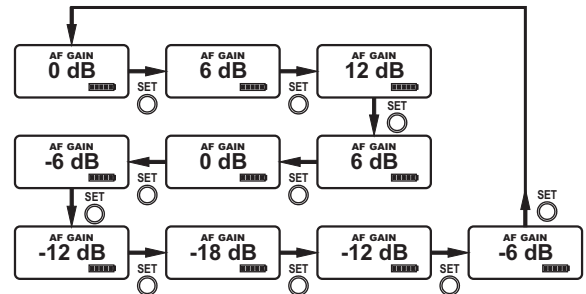


Setting Input Gain Level

- Selectable **AF GAIN** between 12dB to -18dB with 6dB parameter up or down selection.
- Press **MODE** button until **AF GAIN** mode appears.
- Press **SET** button once to activate function.
- Press **SET** button to select the desired sensitivity level.
- Press **MODE** button to confirm and save the change.
- The higher the sensitivity level, the lower the dynamic range of input signals. Meanwhile noise will increase, and the feedback problem will be getting more serious.

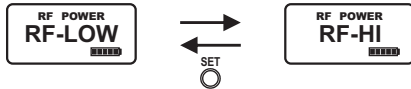
NOTE:

- The audio gain level is factory preset at 0dB level.
- Guitar setting is recommended at -12dB level.



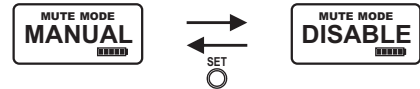
Setting RF Output Power

- 2 RF Output Power Levels: **RF-LOW** and **RF-HI**.
- Press **MODE** button until **RF POWER** mode appears.
- Press **SET** button once to activate function.
- Press **SET** button to select the desired RF output power.
- Press **MODE** button to confirm and save the change.



MUTE MODE

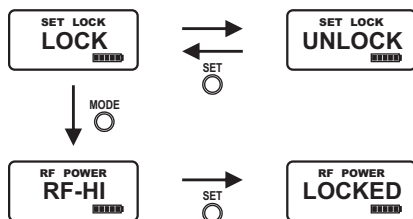
- **MUTE MODE:** Select from **MANUAL** and **DISABLE**.
- Press **MODE** button until **MUTE MODE** appears. Press **SET** button once, the LCD screen starts flashing to denote it is ready to accept mode changes. Press **SET** button to change between **MANUAL** and **DISABLE** in cycle. Press **MODE** button to confirm and save the change, or LCD will stop flashing after 5 seconds and parameter will be saved.
- **MUTE** button is operable when **MUTE MODE** is set in **MANUAL** mode.
- **MUTE** button is not operable when **MUTE MODE** is set in **DISABLE** mode.



Setting LOCK

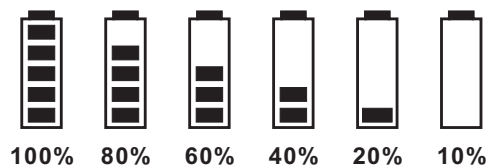
- Setting LOCK can be switched to **LOCK** or **UNLOCK** mode.
- Press **MODE** button until **SET LOCK** mode appears.
- Press **SET** button to select the desired parameter.
- Press **MODE** button to confirm and save the change.
- Press **SET** button twice to remove the LOCK function.
- The LOCK function will be removed automatically when losing power.
- Mute function can still work properly when LOCK.

NOTE: Once locked, all 6 parameter values cannot be changed.



Battery Status

- Indicates the power remaining in the transmitter battery. When the battery has less than 10% power remaining it must be replaced or recharged. If an under voltage condition continues, the LCD will show "**OFF...**" and the system will shut down to prevent being overly discharged.



Power Button

- Press and hold for 2 seconds to power on & off. "**OFF...**" - Power Off
- When the power switch is turned off, the LCD will show "**OFF...**" (for Power Off) first and then the system will shut down and no further messages will be displayed.

OFF...

ERR Message

- When "ERR" appears in the display it indicates that an operational error has occurred. Please refer to the following codes to diagnose which error you are experiencing.

ERR no01 EEPROM is not being programmed or internal data error.

ERR no02 For testing only.

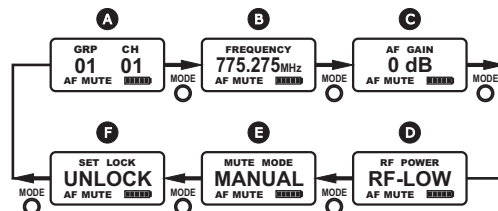
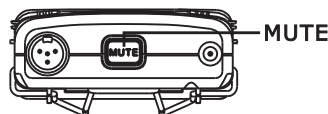
ERR no03 The frequency you want to program is above the switching bandwidth of the transmitter. Use a receiver with an appropriate frequency group. (At this time the microphone is still operating and the frequency remains unchanged. To clear the displayed "ERR" message, switch the handheld transmitter off and on again.)

ERR no04 The frequency you want to program is below the switching bandwidth of the transmitter. Use a receiver with an appropriate frequency group. (At this time the microphone is still operating and the frequency remains unchanged. To clear the displayed "ERR" message, switch the handheld transmitter off and on again.)

- "Group" & "Channel" :** When both the group and channel numbers are displayed, it means that you are using the pre-programmed frequency of the receiver.
- "Channel" Only :** If "Channel" only is displayed, it means that you are using a frequency which is not pre-programmed.

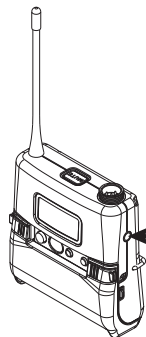
Setting MUTE

- Press **MUTE** button to enter **MUTE** mode.
- Under **MUTE** mode, press **MUTE** button to exit **MUTE** mode.
- MUTE** button is operable when **SET LOCK** mode is **LOCK**.
- MUTE** button is operable when **MUTE MODE** is set in **MANUAL** mode.



External Mute Connector

- External mute connector is a 3.5mm jack. When an external mute switch cable, MJ-70 (optional) is connected, user can manually mute and un-mute the audio temporary.

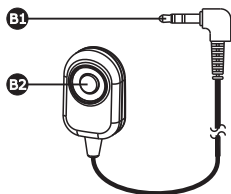


External mute connector

MJ-70 External Mute Switch (optional)

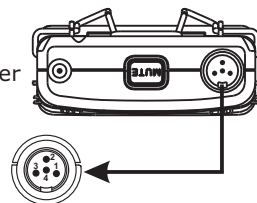
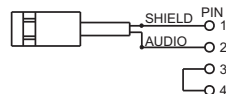
- B1** 3.5mm jack.
- B2** External mute switch on/off button.

NOTE: Plug in the device before power on the bodypack transmitter.

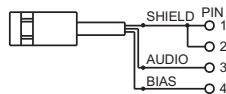


AF Input Connections

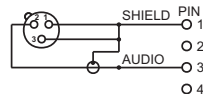
- 2-Wire Electret condenser microphone Capsule



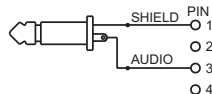
- 3-Wire Electret condenser microphone Capsule



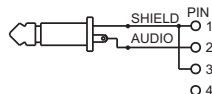
- Dynamic Microphone



- Electric Guitar

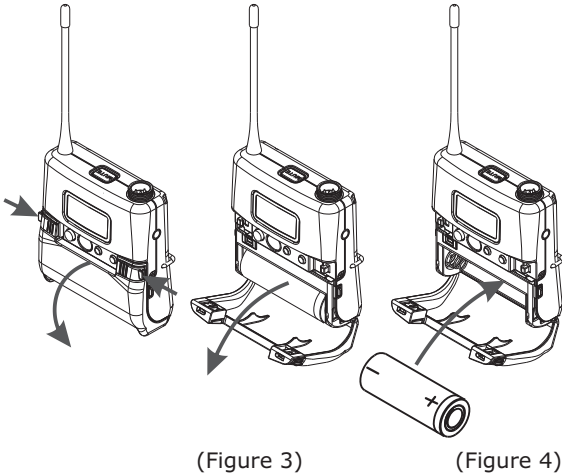


- Line-in (Impedance $8K\Omega$ ATT. 10dB)



Battery Removal and Installation

- Pushing down both snap locks on the sides to open battery compartment cover. Take out the two batteries. (Figure 3)
- Insert one charged 18500 rechargeable battery into the battery compartment according to the correct polarity (- and +) as shown in (Figure 4). Then close the battery compartment cover tightly.



Caution

Remove the batteries if unused for a long period of time to prevent battery leakage, corrosion and causes possible damage to electronics.

Caution

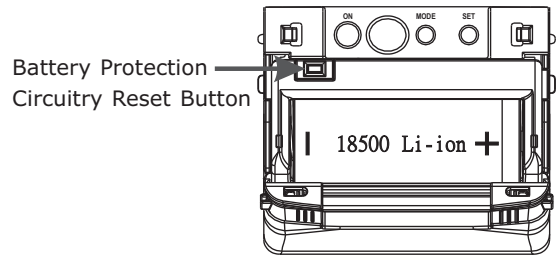
Note: Transmitter cannot be powered on with charged battery.

Method 1:

- Ensure battery is inserted correctly with + top side.
- If battery is inserted correctly it could be due to self battery protection mechanism. Insert the transmitter into the charger to re-charge for 10-20 seconds to wake-up the battery. It should work.
- If charger cannot be used, reverse the battery insertion for 10-20 seconds, wake up the battery with correct polarity. It should work.

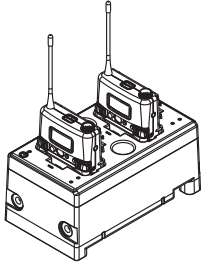
Method 2:

- Power off the transmitter before open the hinged cover. Press battery protection circuitry reset button once to wake-up battery. Power on the transmitter.

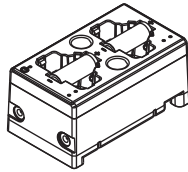


MP-80 Battery Charger (Optional)

MP-80 Charger charges both transmitters and 18500 rechargeable batteries.



Transmitters Charging



18500 Charging

Notes

1. Refer to actual product in the event of product description discrepancy.
2. Frequency range and maximum deviation comply with the regulations of different countries.

FC & IC - ID

THIS DEVICE COMPLIES WITH PART74 OF THE FCC RULES AND RSS-123 ISSUE 2 OF CANADA. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio

exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Disposal Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.



2006-06-19

Disposing of used batteries with domestic waste is to be avoided!

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!