

MiCo 446

PMR Public Mobile Radio



ICOM
electronic

Contents Operating Instruction

English	page
Controls & Connections	3 / 16
Setting Up	17 - 18
Operation	19 - 24
Notice :	
• Conformity	24
• Approval	24
• Servicing	25
• General Precautions	25
Connection Speaker/ Microphone	26
Technical Data	27

TEAM MiCo 446



TEAM MiCo 446

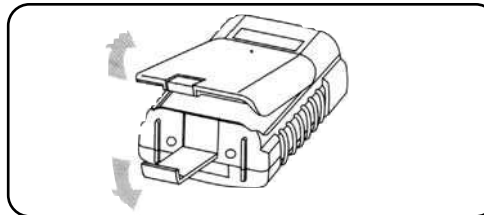
**Operation Controls and
Connectors**

- ① External Speaker Jack [SPK]
- ② External Microphone Jack [MIC]
- ③ Push to Talk Key [PTT]
- ④ Display Screen
- ⑤ Function Key /Key Lock [F]
- ⑥ CTCSS Code Key / Call Tone Key [C]
- ⑦ Monitor Key / Display Backlight [*]
- ⑧ Red On/Off Power Switch
- ⑨ Speaker / Microphone
- ⑩ Selector Key [▲]
- ⑪ Selector Key [▼]
- ⑫ Antenna
- ⑬ Charging Contacts
- ⑭ Battery Compartment

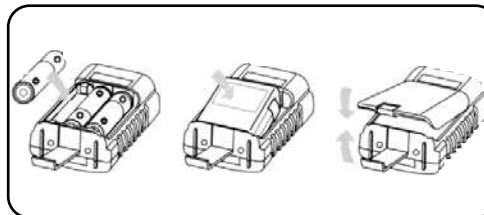
Setting Up TEAM MiCo 446**Inserting the Batteries**

Insert 3 Alkali batteries (AA size). Make sure that the polarity is correct as indicated inside the battery compartment. You may also use 3 x 1.2 V standard rechargeable NiCd or NiMH batteries. For long time operation it is advisable to use the extra battery pack APP-446-M. The MiCo 446 is ready for use after the batteries are inserted into the battery compartment and the battery door is locked.

Unlock the battery compartment (14) :

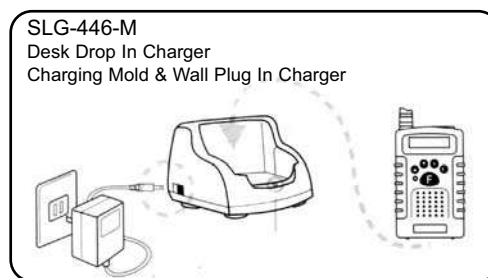


Insert the battery into the battery compartment and lock it back.

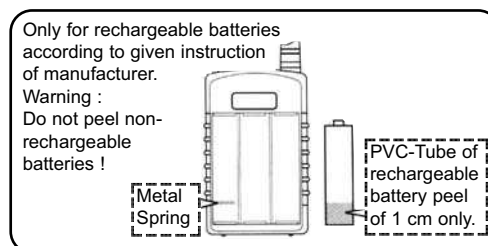


English

The maximum communication range can be obtained only by using fresh or fully charged batteries. Remove the batteries out of the set if it is not intended to be used for longer period. Rechargeable batteries or the rechargeable battery pack APP-446M can be recharged inside the transceiver by using the suitable desk drop in charger SLG-446-M. Batteries, rechargeable batteries, battery pack and the charger are not included to the set.



By charging of standard rechargeable batteries with SLG-446-M it becomes necessary that the PVC tube of the left hand side cell will be peeled off by 1 cm to get direct contact to the metal spring at the left lower side of the compartment.

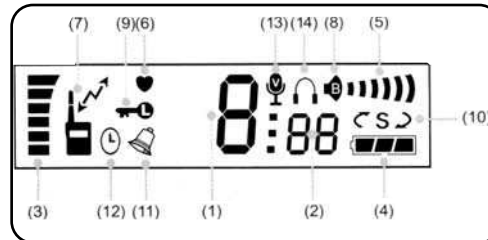


Operation TEAM MiCo 446

1. Red On / Off Switch

Press and hold red button (8) to turn on. Symbols appears at the display. Press and hold again same button to turn off.

2. Display (4)



- (1) Displays current channel 1-8,
- (2) Displays current CTCSS code 1-38
OFF mode when no figure is shown
- (3) Displays Transmitting Signal Strength
- (4) Displays Battery Condition
- (5) Displays current volume level
- (6) Displays power saving mode
- (7) Displays transmission and reception
- (8) Displays "button confirmation tone" on
- (9) Displays "key lock" on
- (10) Displays "channel scanning" on
- (11) Displays "tone call" on
- (12) Displays "auto-power-off" on
(30 minutes auto-power off)
- (13) Displays VOX (voice activated
function) set on
- (14) Displays remote monitor set on

3. Push to Talk [PTT]

To transmit depress and hold the PTT key (3) at left side of the set. The sensitivity of the built-in microphone has been set to give good results speaking normally at a distance of 5-10 cm.

4. Selector Keys [▲ ▼]

The desired volume level can be adjusted by pressing one of the selector keys [▲ ▼]. The volume level will be indicated at the display symbol (5). Combined with the function key [F] (5) and selector keys [▲ ▼] (10+11) different settings can be selected.

5. Display Backlight / Monitor Key

Press this key (7) momentarily to light up the backlight of display. Press and hold a few seconds to check current volume level or to hear all weak signals on matched channel. Backlight will not illuminate the display while in hold PTT mode.

6. Function Key [F]

Press and release this key (5) to get various function modes. The press one of the selector keys [▲ ▼] to set functions whose mode is being activated with flashing icons. A longer than 5 sec press on the function key can activate KEY LOCK mode during which all settings remain fixed to prevent accidental changes of decided settings. To cancel the Key Lock mode press the function key for more than 5 sec till the key lock icon disappears from the display.

7. Channel Selection

Press **F** key 1 time to activate the channel setting mode.

Press on of the selector keys [**▲** **▼**] momentarily to

select the channel number 1-8.



8. Tone Call Selection

Press the **F** key 2 times to activate the tone call setting mode. Press one of the selector keys [**▲** **▼**] to choose beep

tone C1-C7.

How to operate :

Press and hold PTT then press [**C**] call tone key (6) to transmit a tone call to the target transceiver.

Purpose : 7 different tones can convey various ideas to one another. One can also identify from tones whose transceiver is making the call.



9. VOX Voice Activated Function

Press **F** key 3 times to activate VOX setting mode. Press one of the selector keys [**▲** **▼**] to set On/Off.

Purpose : "VOX on" function transmits voice

automatically by eliminating necessity to press PTT for each time one talks.

This can also be used as a baby monitor by which one can learn his baby's condition remotely.



English

10. VOX-Sensitivity

This is to be activated only while VOX is set "ON" and immediate press of **F** key can attain this mode. Press selector key [▲] or [▼] to set the sensitivity level. The highest level L4 makes the VOX most sensitive.



11. Remote Monitor

To attain remote monitor function, CTCSS code must be set in advance. Press the **F** key several times to activate it till symbol (14) flashes. Press selector key [▲] or [▼] to set it On/Off.



How to operate : Press and hold PTT then press the monitor key [*] simultaneously momentarily to transmit a signal to the target transceiver whose remote monitor mode is already set "On". The target transceiver automatically sends back signals for 8 sec as a feedback report.

Purpose : This helps one check if the target transceiver is within effective range or learn its surrounding status when desired.

12. Confirmation Beep Tone

Press **F** key to activate this till symbol (8) flashes. Press selector key [▲] or [▼] to set it On/Off.

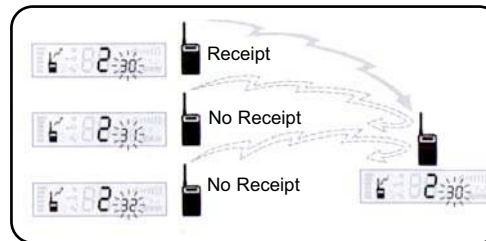


13. CTCSS Codes Setting

Press the **C** key (6) a few seconds to activate this mode. Press selector key [▲] or [▼] to change CTCSS number 1-38. .

Press PTT or **F** key to choose it.. To set CTCSS "Off" press **C** key a few seconds till CTCSS number disappears.

Purpose : CTCSS helps one avoid interferences and is recommended in radio signal-congested area. It is a must to have CTCSS in order to activate Remote Monitor Function.



14 Auto Channel Scanning

You are recommended to set off CTCSS before scanning. Press **F** key 1 time to activate channel setting mode. Press and hold selector key [**▲**] or [**▼**] a few seconds to start scanning. Any channel carrying a call will be sought out and fixed a while as long as signal fades out. Scan resumes till next channel with a call is found again.. Press PTT or **F** key to stop scanning.

Purpose : Scanning helps you locate used channels as well as find out a free one.

16. Low / High Power Transmission

Press and hold PTT, then momentarily press selector key [**▲**] or [**▼**] to switch between high or low power transmission mode. High power mode is recommended for long range transmission. Low

English

power mode is more power saving and suggested for short range transmission. When battery condition is weak 2 beep tones will follow when you press PTT. In this case the transmitting output power automatically switches to low power mode.

17. Auto Power Off (APO)

Press twice quickly the red power switch while the power is "On" can attain this mode. The symbol (12) shows up in this mode. Repeat same procedure to cancel it. The transceiver automatically turns off after 30 minutes from the last key entry or last incoming call. A warning tone is heard 1 minute before the power turns off finally. "Auto power off" function retains its setting even after power is off.

Conformity

The transceiver is conforming to the European R&TTE Directive.

APPROVAL

The transceiver is approved according to the European standard ETS 300 296 & ETS 300 680. In most of the member countries of the European Union the ETS approval will be recognised. Therefore maybe it is free of fees and notice to PTT authorities. Please check your local requirements.

Servicing

The condition of the batteries must be tested from time to time. Worn out batteries must be removed from the device immediately. They can leak and damage the device. The complete set of batteries must always be replaced.

Worn out batteries do not belong in the waste bin, but must be returned to suitable collecting depot or to a special dealer, for the sake of the environment. The device must not be opened. Independent repairs or adjustment must not be carried out, since each modification or unauthorised intervention will result in the cancelling of the operating permit and of the guarantee and repair claims.

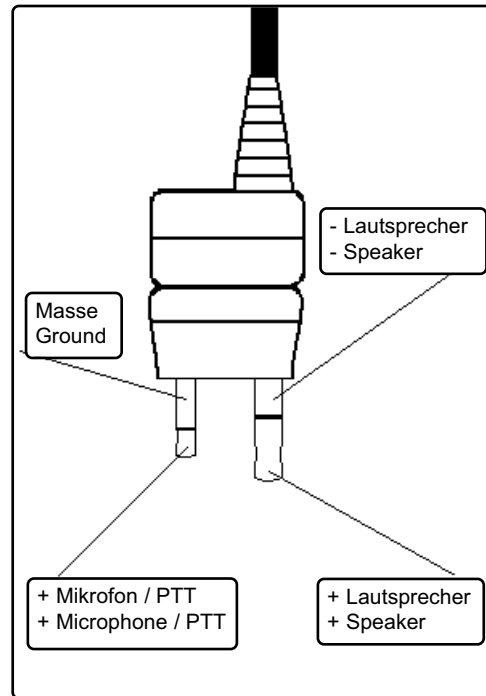
Do not use the set if it seems not to function correctly. Take the batteries out immediately. If there is a defect, the authorised TEAM specialist dealer or TEAM must be contacted in every case.

GENERAL PRECAUTIONS

Protect the set from humidity and dust. Do not store at places or in the sun where the temperature may rise and cause damage. The set can be cleaned by wiping with a soft cloth. Do not use chemical products to clean the set.

TEAM MiCo 446

- ❑ Belegung des Steckers für den Lautsprecher-/Mikrofonanschluß
- ❑ Pin configuration of the plug for speaker / microphone connection



Nachdruck oder Vervielfältigung auch auszugsweise nur mit ausdrücklicher Genehmigung von TEAM Electronic GmbH.

Technische Daten Technical Data

Frequenz / Frequency :	446.00625 - 446.09375 MHz
Kanalanzahl / Number of Channels	8
Kanalraster / Channel Spacing :	12,5 kHz
Sendeleistung / TX Output Power :	500 mW
Modulationsart / Modulation Method :	FM
NF-Ausgangsleistung : Audio Output :	180 mW (int. & ext.)
Empfängerempfind- lichkeit : Receiver Sensitivity :	22 dB μ V/m
Betriebsspannung / Power Supply Voltage :	3,6 - 4,8 Volt
Größe / Size : (ohne Antenne / without antenna)	B/W 5,2 x T/D 2,9 x H 8,3 cm
Gewicht / Weight : (ohne Batterien / without batteries)	71 gr.

Änderung der technischen Daten und der Ausführung sind ohne Vorankündigung vorbehalten.

Specifications are subject to change without any prior notice or obligation on the part of the manufacturer.



TEAM Electronic GmbH
Bolongarostrasse 88
D-65929 Frankfurt/Main
Tel. 069 / 300 950 0
Fax 069 / 31 43 82
eMail TEAMGerman@aol.com