TY-MAN

Model: TY380

User Manual

FRS RADIO TRANSCEIVER
MODEL: TY380
USER MANUAL

SAFETY INFORMATION

Your wireless hand-held portable transceiver contains a low power transmitter. When the Push-to-Talk (PTT) button is pushed it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

CAUTION:
To maintain compliance with the FCC's RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. If you wear the handset on your body while using the headset accessory, use only the supplied belt clip for this product and when transmitting, take it out of the belt to ensure that the antenna is at least 1 inch (2.5 centimeters) from your body.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.
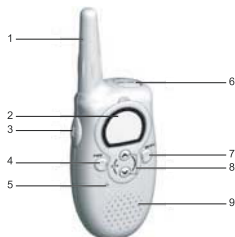
INTRODUCTION

The TY380 transceiver has14channels and 38 CTCSS (Continuous Tone Coded Squelch System) codes. If someone else is using the same ch-annel as you, you can select another channel or use the CTCSS feature. Talk with another person if you are both tuned to the same channel and/ or CTCSS code.

The TY380 complies with the Japanese Industrial Standard Drip-proof Type II specification. This means your transceiver offers varies degrees of protection against water seeping inside the device, against solid foreign objects, and access to hazardous parts in the unit.

KEY FEATURES

FRONT VIEW

NO.	DESCRIPTION	FUNCTION
1	Antenna	Flexible, bendable antenna receives and transmits signals, reduces chance of breakage and fits more easily and comfortably into shirt or pants pocket
2	LCD	Display screen
3	PTT	1. Push to talk 2. Press PTT twice to enable Call Tone function 3. Confirm selection in MENU mode

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4	PWR	Press to turn the unit on and off
5	MIC	Speak into microphone enables communication
6	MIC/Speaker	Allows use of headset for hands free communication
7	MENU	1. Scroll through menu options 2. Press and hold MENU to enable monitoring function
8	▲	1. Increase Volume 2. Select Channel, CTCSS in MENU mode
	▼	1. Decrease Volume 2. Select Channel, CTCSS in MENU mode
9	Speaker	Receives voices / sounds from incoming call

BACK VIEW

NO.	DESCRIPTION	FUNCTION
1	Belt Clip	Clip to your pocket or belt.
2	Back cover	Remove to access battery compartment

LCD DISPLAY SYMBOLS

SYMBOL	FUNCTION
	Receiving
	Transmitting
VOL	Volume
VOX	Voice Activation System
(key)	Key Lock
APO	Auto Power Off
♫	Key Beeps
♪	Roger Beeps
SCAN	Scan Channel or CTCSS
(battery)	Battery Indicator
	Silent Alert function quietly alerts you of any incoming calls without beeping noises
88 (big)	Channel Number: Select between 14 channels
88 (small)	CTCSS code: Adjust to minimize interference problems

SAFETY AND CARE INSTRUCTIONS

SAFETY PRECAUTIONS

Please observe the following safety precautions when setting up and using this product.
* LCD panel – The LCD panel is made of glass, and may break if the unit is dropped or impacted.
* Heat sources – Keep the product away from heat sources such as radiators, stoves, heaters, and other heat-generating products.
* Water and moisture – Do not use the product in or near water or in high moisture areas such as a bathroom.

CAUTION:
Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instruction.

CARING FOR THIS PRODUCT

To ensure you receive the maximum benefit from using this product, please observe the following guidelines.
* Cleaning – Use a damp cloth. Do not use liquid cleaning agents, benzene, thinner, or aerosols.
* Repair – Do not attempt to repair the product or modify the circuitry by yourself. Contact the retailer or a qualified repairman if the product requires servicing. Only use replacement parts that are recommended by the manufacturer.
* Do not scratch hard objects against the LCD display as this may cause damage.

CAUTION

* To avoid risk of fire or injury, do not attempt to charge non-rechargeable batteries. Please turn off the unit while charging.
* Replace only batteries with the same or equivalent type recommended by the manufacturer.
* Please dispose of old, defective batteries in an environmentally friendly manner in accordance with the relevant legislation.
* No naked flames, such as lighted candles, should be placed near the apparatus.

OPERATING THE TRANSCEIVER

1. To access the battery compartment, slide the hook at the back of the transceiver in an upward motion and remove.
2. Slide the back cover of the transceiver in a downward motion to remove.
3. Insert 3 AAA batteries into the battery compartment, noting polarities.

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4. Slide the transceiver back cover and hook back into place.

5. Press and hold PWR to turn on the device. The unit will beep with the LCD displaying all symbols for 1 second.

6. Use ▲ or ▼ to increase or decrease volume, respectively. The VOL number will show on the LCD accordingly.

7. To turn the device off, press and hold PWR until the unit beeps and the LCD goes blank.

BASIC FUNCTIONS

NOTE: The battery indicator will flash to indicate low battery power.

NOTE: 1. Use 3 AAA alkaline or rechargeable batteries when operating this unit. Before charging, study the user manual section on "Charging Contacts" for further instructions.

2. Reset: At any time if the unit can't work properly, please take off the batteries and insert them again.

TALKING INTO TRANSCEIVER

1. Hold down the PTT button and speak into the MIC to transmit (appears on the LCD). When finished, release the button.

2. The transceiver will automatically play received transmissions.

NOTE: You can only communicate with another radio that is using the same channel and/or CTCSS code as your radio.

CALL FUNCTION

You can send a ringer sound to all transceivers tuned to the same channel and / or the CTCSS code as your transceivers by pressing PTT.
1. Push PTT to talk.
2. Press PTT twice in rapid succession to enable the Call Tone function.
3. Confirm selection in MENU mode.

USING THE KEY LOCK

You can lock the buttons on the transceiver to avoid accidentally enabling the device. To enable/disable key lock, press PWR + MENU simultaneously. The lock symbol will show on the LCD.

AUTO-SQUELCH FUNCTION

Your transceiver has an Auto-Squelch function for hearing weaker, distant transmissions. You will not hear anything on a channel unless someone is transmitting nearby on the same channel.
1. Press and hold MENU for 2 seconds to enable/disable this function.

2. Press **MENU** to access the Menu Options. The transceiver will then toggle between the following configurable settings:

SYMBOL	SETTING	DESCRIPTION
88 (big)	Channel	Selects channel for transmission
88 (small)	CTCSS	Selects a CTCSS code for the current channel
VOX	VOX	Enable/disable voice-activated transmission
♪	Roger Beep	Enable/disable beep heard after the finish of a received transmission
♫	Key Tone	Enable/disable beep when a key on the transceiver is pressed
	Vibrating	Enable/disable vibration function
APO	Automatic Power-Off	Enable/disable automatic shut-off after device is idle for 2 hours

NOTE: Press **MENU** to confirm and move to the next setting. To confirm the changes but quit the Menu Options, press **PTT**.

SELECTING A CHANNEL

Select between 14 channels. The transmitter and receiver must be on the same channel.

1. Press **MENU** once until the channel number starts flashing on the LCD.

2. Press and hold ▲ or ▼ to begin scanning a channel. If a valid signal is present, the transceiver will pause on the current active channel.

3. Press **PTT** to stop scanning and exit the menu. Or, press **MENU** to stop scanning and go to the next Menu Option.

CTCSS SCANNING

You can activate the channel scan function:

1. Press **MENU** twice until the CTCSS number starts flashing on the LCD.

2. Press and hold ▲ or ▼ to begin scanning a CTCSS channel. If a valid signal is present, the transceiver will pause on the current active channel.

3. Press **PTT** to set and store the CTCSS channel, or the transceiver stores the display setting after 15 seconds. The scan mode will immediately search for the next CTCSS channel if no button is pressed after 5 seconds.

4. Press **PTT** to stop scanning and exit the menu. Or, press **MENU** to stop scanning and go to the next Menu Option.

SETTING VOX & BABY MONITOR

This setting automatically detects and transmits your voice through the selected channel, without needing to push and hold **PPT**.

1. Press **MENU** 3 consecutive times until VOX appears on the LCD.

2. Select between 6 levels of VOX by pressing ▲ or ▼ key.

LCD SYMBOL	DESCRIPTION
0	VOX disabled
1	Low sensitivity – only audibly loud voices are transmitted(useful for noisy environments)
2	Normal sensitivity – ideal setting for voice-activated transmission
3	High sensitivity – all detected soun(including noise) are transmitted
b1	Low sensitivity – only audibly loud baby voices are transmitted (useful for noisy environments)
b2	Normal sensitivity – ideal setting for voice-activated transmission
b3	High sensitivity – all detected baby sounds are transmitted

3) Press PTT to confirm the VOX/b1/b2/b3 setting.

4) Press PTT again to activate VOX/b1/b2/b3 function.

You can now begin voice transmission.

ROGER BEEP MODE

With Roger Beep, the receiving party hears a beep tone when a message has been transmitted. This avoids situations where messages are interrupted during transmission.

1. Press **MENU** 4 consecutive times until ♪ appears on the LCD.

2. Press ▲ or ▼ to activate /deactivate the Roger Beep function.

KEY TONE

The Key Tone function, if enabled, causes the unit to beep when a button is pressed.

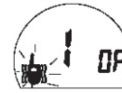1. Press **MENU** 5 consecutive times until ♫ appears on the LCD.

2. Press ▲ or ▼ to activate/deactivate the Key Tone function.

SILENT ALERT

Enabling the Silent Alert function allows you to be aware of any incoming calls without needing to turn on any beeping sounds.

1. Press **MENU** 6 consecutive times until appears on the LCD.

2. Press ▲ or ▼ key to activate/deactivate the Silent Alert function.

NOTE:

1. If the vibration alert feature is activated, the device will vibrate for 20 seconds.

2 The unit will not vibrate if there are continue transmission.

3. The unit will ONLY vibrate again without any transmission after 30 seconds for energy save purpose, thereafter.

APO FUNCTION (AUTOMATIC POWER OFF)

This enables your transceiver to automatically shut itself off if left idle for 2 hours and save battery power.

1. Press **MENU** 7 consecutive times until APO appears on the LCD.

2. Press ▲ or ▼ key to activate/deactivate the function.

NOTE: Press any button to re-enable the transceiver after automatic shut-off.

ACCESSORIES

CHARGING CONTACTS

Your TY380 transceiver comes with 2 individual cradle chargers, the chargers can be link together with a link-up cable(optional) that allow you to charge 2 transceivers at the same time by using 1 single AC adaptor.

The cradle charger LED lights red during charging, and takes 14 to 16 hours to complete.

CAUTION:

1. Located inside the transceiver s battery compartment is a charging switch, which must be set to ON while charging. If alkaline batteries are used, switch the set to OFF. To avoid risk of fire or inquiry, do no switch to ON when using alkaline batteries. Directly charge Ni-MH rechargeable batteries by using an optional 1-bay cradle charger.

2. Turn off the transceiver during charging.

3. DO NOT link the individual chargers together while using separate adaptors to charge.

WARNING:

1. To maintain the battery life of your 2-way radios we recommend that you only charge batteries when needed. Overcharging the batteries will reduce performance.

2. For best results ensure that the handsets are switched OFF before charging

AC/DC ADAPTOR

SUPPLIER NAME:PANTENE INDUSTRIAL CO.,LTD
TYP: P1-A12-020
MODEL: P1-35-483EM
INPUT: 230V~50Hz 35mA
OUTPUT: 12V ⎓ 300mA   ⊖─◉─⊕

BATTERIES

MODEL:AAA70C
SUPPLIER NAME:TMK POWER INDUSTRIES LTD.
AAA Size 1.2V rechargeable Ni-MH batteries.

APPENDIX

CHANNEL FREQUENCIES

CHANNEL	FREQUENCY (IN MHZ)	CHANNEL	FREQUENCY (IN MHZ)
01	462.5625	08	467.5625
02	462.5875	09	467.5875
03	462.6125	10	467.6125
04	462.6375	11	467.6375
05	462.6625	12	467.6625
06	462.6875	13	467.6875
07	462.7125	14	467.7125

CTCSS PRIVACY CODES

CHANNEL	FREQUENCY (IN HZ)	CHANNEL	FREQUENCY (IN HZ)
01	67.0	20	131.8
02	71.9	21	136.5
03	74.4	22	141.3
04	77.0	23	146.2
05	79.7	24	151.4
06	82.5	25	156.7
07	85.4	26	162.2
08	88.5	27	167.9
09	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

SPECIFICATIONS

RX Frequency	**462.5625 ~ 467.7125 MHZ**
Channels	**14**
Modulation type	**FM**
Antenna impedance	**50 Ohm**
Microphone	**condenser type**
Power supply	**3 × AAA Alkaline**
Sensitivity at 12dB Sinad	**0.5μV**
Adjacent Channel Rejection	**55dB**
Audio Squelch	**Auto**
Audio output power	**100mW @ 8 Ohm**
Audio Distortion	**7%**
RF Output Power	**500 mW @ 4.5VDC**
Harmonic emission suppression	**>= 63dB**
Dimensions (HWD)	**87×54×36mm**
Weight (without batteries)	**80g**

CE XXXX