



 **Oregon**
S C I E N T I F I C



Model: TP380
User Manual





UHF RADIO TRANSCEIVER

MODEL: TP380

USER MANUAL

INTRODUCTION

Thank you for selecting the Oregon Scientific™ TP380 as your product of choice. This product is a portable, easy-to-use two-way radio transceiver that you can use to contact your family and friends at shopping centers, amusement parks, or even sports events!

The transceiver has 40 channels and 38 CTCSS (Continuous Tone Coded Squelch System) codes. If someone else is using the same channel 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 TP380 complies with the Japanese Industrial Standard Drip-proof Type II specification. This means your transceiver offers a degree of protection against water seeping inside the device, against solid foreign objects, and access to hazardous parts in the unit.

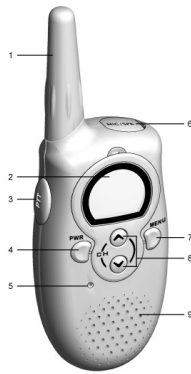




KEY FEATURES

FRONT VIEW

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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
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

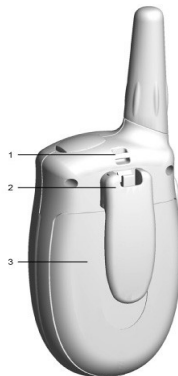




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7	MENU	1. Scroll through menu options 2. Press and hold MENU to enable monitoring function
8		1. Increase Volume 2. Select Channel, CTCSS in MENU mode
		1. Decrease Volume 2. Select Channel, CTCSS in MENU mode
9	Speaker	Receives voices / sounds from incoming call

BACK VIEW



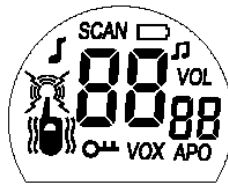
NO.	DESCRIPTION	FUNCTION
1	Strap hole	Loop strap through so you can hang unit from your neck
2	Belt Clip	Clip to your pocket or belt.
3	Back cover	Remove to access battery compartment





LCD DISPLAY SYMBOLS

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SYMBOL	FUNCTION
	Receiving
	Transmitting
VOL	Volume
VOX	Voice Activation System
	Key Lock
APO	Auto Power Off
	Key Beeps
	Roger Beeps
SCAN	Scan Channel or CTCSS
	Battery Indicator
	Silent Alert function quietly alerts you of any incoming calls without beeping noises
88 (big)	Channel Number: Select between 40 channels
88 (small)	CTCSS code: Adjust From 01-38 code





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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.

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.

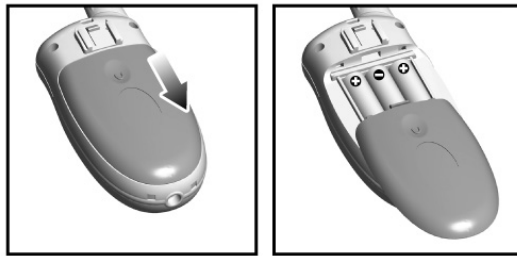




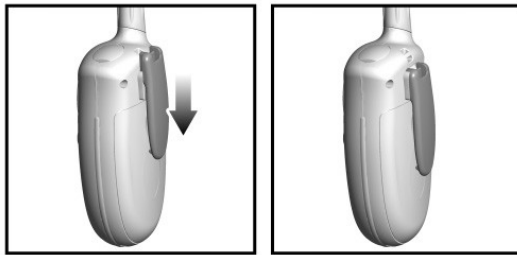
OPERATING THE TRANSCIVER

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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.



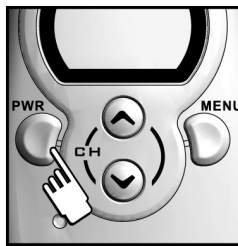
4. Slide the transceiver back cover and hook back into place.





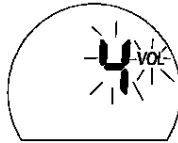


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5. Press and hold **[PWR]** to turn on the device. The unit will beep with the LCD displaying all symbols for 1 second.



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.





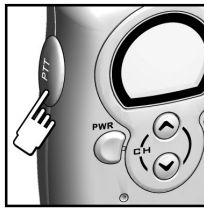
NOTE: 1. Use 3 AAA alkaline or rechargeable batteries when operating this unit. Before charging, study the user manual section on “Charging Contacts” for further instructions.



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

TALKING INTO TRANSCIEVER

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.

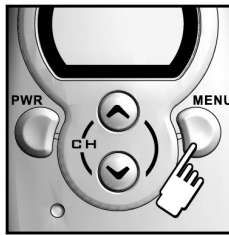




AUTO-SQUELCH FUNCTION

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 40 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.





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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 sounds (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

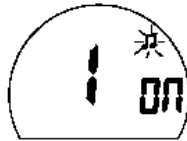
The Key Tone function, if enabled, causes the unit to beep when a button is pressed.







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

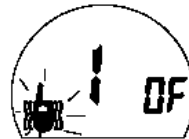


2. Press  or  to activate/deactivate the Key Tone function.

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 is continued transmissions.
3. In order to save energy, the unit will only vibrate again when there is a gap of 30 seconds in transmission.

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.



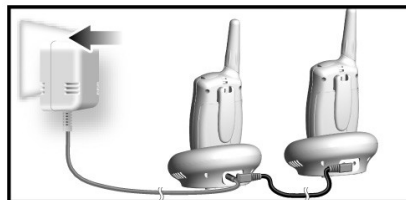
2. Press  or  key to activate/deactivate the function.

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

ACCESSORIES

CHARGING CONTACTS

Your TP380 transceiver comes with 2 individual drop-in chargers that allow you to charge 2 transceivers at the same time using a connector cable and 1 adaptor. You may also charge each transceiver separately by an additional charger that comes with the package.



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 not switch to ON when using alkaline batteries. Directly charge Ni-MH rechargeable batteries by using an optional 1-bay cradle charger.
2. 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

APPENDIX

CHANNEL FREQUENCIES

CHANNEL	FREQUENCY (IN MHZ)	CHANNEL	FREQUENCY (IN MHZ)
01	476.425	21	476.925
02	476.450	22	476.950
03	476.475	23	476.975
04	476.500	24	477.000
05	476.525	25	477.025
06	476.550	26	477.050
07	476.575	27	477.075
08	476.600	28	477.100
09	476.625	29	477.125
10	476.650	30	477.150





11	476.675	31	477.175
12	476.700	32	477.200
13	476.725	33	477.225
14	476.750	34	477.250
15	476.775	35	477.275
16	476.800	36	477.300
17	476.825	37	477.325
18	476.850	38	477.350
19	476.875	39	477.375
20	476.900	40	477.400

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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





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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	476.425 - 477.400 MHz
Channels	40
Modulation type	FM
Antenna impedance	50 Ohm
Microphone	condenser type
Power supply	3 × AAA Alkaline
Sensitivity at 12dB Sinad	0.5mV
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	>= 63dB
Dimensions (HWD)	85 x 52 x 20mm
Weight (without batteries)	73g





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