

**UAW**  
*Incredible Range, Exceptional Quality*



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**UANB-501**

**VHF FM TRANSCEIVER**

- RF HIGH POWER OUTPUT 5W/1W
- 15 CHANNELS PLUS 1 SCAN CHANNEL
- COMPUTER PROGRAMMABLE
- STURDY AND DURABLE
- CTCSS/DCS DECODING
- INCLUDES DESKTOP CHARGER
- LOW BATTERY WARNING

**USER'S MANUAL**

## SAFETY TRAINING INFORMATION



To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio.
- Do not transmit for more than 50% of the total transceiver use time; transmitting over 50% of the total use time may exceed the limits in accordance to the FCC RF exposure requirements. Nominal transceiver operation is 5% transmission time, 5% reception time and 90% stand-by time.  
The radio is transmitting when the "X indicator" light red. You can cause the radio to transmit by pressing the "PTT" switch.
- When transmitting, please keep the antenna at least 2.5cm away from your body. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5cm (2 inches) from your mouth, and slightly off to one side.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Note: This product was not allowed to close to the ear, when it is working normally.

## THANK YOU

We are grateful for your purchase of this **UAW** transceiver. We believe this easy-to-use transceiver will provide you with dependable and reliable communications.

## UAW

We adopt advanced technology & workmanship for this transceiver, we trust our laborative design will make it better & quicker service for you; for correct use, please read this manual before use.

### FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### FCC Warning

This equipment has been tested and found to comply with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (1) This device must accept any interference received including interference that may cause undesired operation.

# PRECAUTIONS

- Refer service to qualified technicians only.
- Do not operate the transceiver or charge a battery pack in an explosive atmosphere (gases,dust,fumes,etc.).
- Tum OFF the transceiver while taking on fuel or while parked in a gasoline service station.
- Do not modify or attempt to adjust this transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it close to heating appliances.
- Do not place the transceiver in excessively dusty,humid,and/or wet areas,nor on unstable surfaces.

## SAFETY

It is important that the operator is aware of, and understands, hazards common to the operation of any transceiver.

## WARNING:

Easy explosive atmosphere(gases,dust,fumes,etc.)  
Please turn off the transceiver while taking on fuel or while parked in a gasoline service station.

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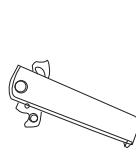
## UNPACKING AND CHECKING EQUIPMENT

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

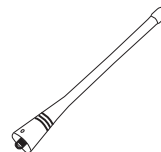
### Supplied Accessories

ITEM	QUANTITY
Battery charger	1
Battery pack	1
Belt clip	1
Screw set	1
Instruction Manual	1
Antenna	1

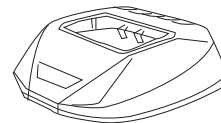
## UNPACKING AND CHECKING EQUIPMENT



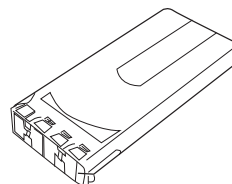
Belt clip



Antenna



Battery charger



Battery pack



Speaker/ microphone  
jack cover



### Charging the Battery Pack

The battery pack is not charged at the factory; charge it before use.

Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal.

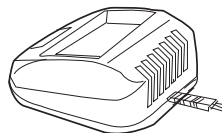


#### CAUTION

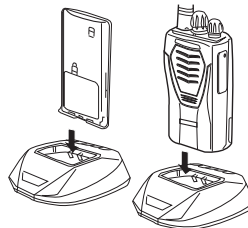
- ◆ DO NOT RECHARGE THE BATTERY PACK IF IT IS ALREADY FULLY CHARGED. DOING SO MAY CAUSE THE LIFE OF THE BATTERY PACK TO SHORTEN OR THE BATTERY PACK MAY BE DAMAGED.
- ◆ AFTER RECHARGING THE BATTERY PACK, DISCONNECT IT FROM THE CHARGER. CHARGING THE BATTERY PACK FOR MORE THAN 5 DAYS MAY REDUCE THE BATTERY PACK LIFE DUE TO OVERCHARGING.

#### Note:

- ◆ The ambient temperature should be between 41 and 104 °F (5 and 40 °C) while charging is in progress. Charging outside this range may not fully charge the battery.
- ◆ Always switch OFF the transceiver equipped with a NiMH battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.
- ◆ The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery pack.



Plug the AC adaptor into an AC outlet.



Slide the battery pack or transceiver with battery pack into the charger.

Make sure the battery pack contacts are in contact with the charging terminals.  
The charger LED lights and charging begins.

After charging the supplied battery pack for 8 hours, remove it or the transceiver equipped with it from the charger.

- The charger does not turn OFF automatically after charging is completed.

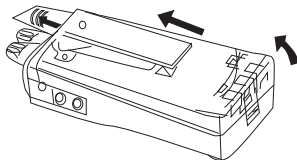
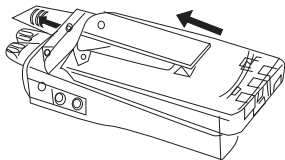
Unplug the AC adaptor from the AC outlet.

# PREPARATION



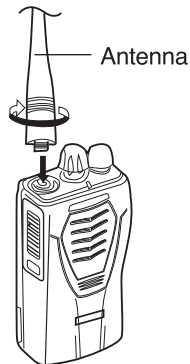
## CAUTION

- ◆ DO NOT SHORT THE BATTERY TERMINALS OR DISPOSE OF THE BATTERY BY FIRE.
- ◆ NEVER ATTEMPT TO REMOVE THE CASING FROM THE BATTERY PACK.



# PREPARATION

## Installing the Antenna

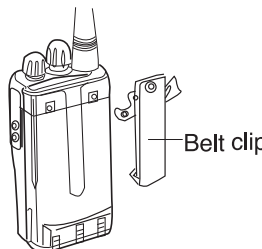


Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

### Note:

The antenna is neither a handle, a key ring retainer, nor a speaker/microphone attachment point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance.

## Installing the Belt Clip



If necessary, buckle the belt clip to the back of the battery pack.

### Note:

- If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.
- You must remove the belt clip before removing the battery pack.



## CAUTION

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

# PREPARATION

## Installing the Cover over the Speaker/ Microphone Jacks



Speaker/  
microphone  
jack cover

If you are not using a speaker/ microphone, install the cover over the speaker/ microphone jacks using the supplied 3 x 6 mm screw.

**Note:** To keep the transceiver water resistant, you must cover the speaker/ microphone jacks with the supplied cover.

## Installing the Optional Speaker/Microphone



Speaker/  
microphone  
locking bracket

Insert the speaker/ microphone plugs into the speaker/ microphone jacks.

**Note:** The transceiver is not fully water resistant while using the speaker/ microphone.

# GETTING ACQUAINTED

Antenna

LED indicator

Lights red while transmitting.  
Lights green while receiving a signal.  
Flashes red when the battery voltage is low while transmitting.

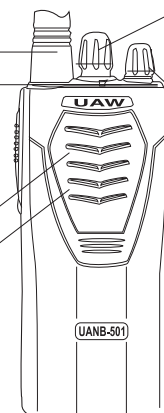
Speaker

Microphone

**Channel selector**  
Rotate to select channels 1~16.

**Power switch/ Volume control**

Turn clockwise to switch ON the transceiver. To switch OFF the transceiver, turn counterclockwise until a click sounds. Rotate to adjust the volume level.



PTT (Push-To-Talk) switch

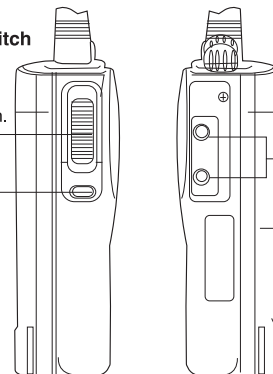
Press, then speak into the microphone to call a station.  
Release to receive.

Monitor key

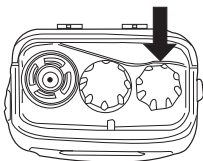
Press and hold to turn the squelch OFF. You will hear background noise. Release to turn the squelch back ON.

Speaker/  
microphone jacks

Battery pack

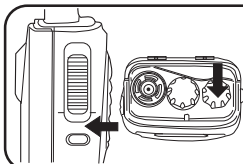


## OPERATION

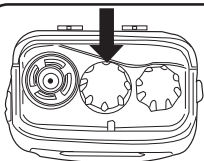


Switch ON the transceiver by turning the Power switch/ Volume control clockwise.

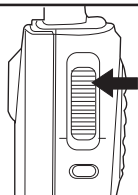
- A beep sounds.



Adjust the volume by pressing and holding the **Monitor** key, then rotating the **Power** switch/ **Volume** control.



Toggle the **Channel** switch to select your desired channel.  
When you receive an appropriate signal, you will hear audio from the speaker.



To make a call, press and hold the **PTT** switch, then speak into the microphone using your normal speaking voice.

- Hold the microphone approximately 1.5 inches (3 to 4 cm ) from your lips.

Release the PTT switch to receive.

**Note:** When the battery pack voltage becomes too low, transmission will stop and the LED will blink red. See "Low Battery Warning" on page 12.

## AUXILIARY FUNCTIONS

### Time-out Timer

The purpose of the Time-out Timer is to prevent any single person from using a channel for an extended period of time.

If you continuously transmit for 10 minutes, the transceiver will stop transmitting and a tone will sound. To stop the tone, release the **PTT** switch. You can press the **PTT** switch again to resume transmitting.

### Battery Save

The Battery Save function decreases the amount of power used when a signal is not being received and no operations are being performed (no keys are being pressed, and no switches are being turned).

While the channel is not busy and no operation is performed for 10 seconds, Battery Save turns ON. When a signal is received or an operation is performed, Battery Save turns OFF.

### Low Battery Warning

Low Battery Warning alerts you when the battery needs to be recharged.

While transmitting, if the battery power goes below a pre-determined value, the LED will blink red. When a tone sounds, the transceiver stops transmitting. Replace or recharge the battery pack.

### Scan Feature

The radio will automatically scan when you turn the channel knob to the Channel S . When receiving signal, it stays on current channel. You can start scanning again after signal of radio disappears for 3 seconds. When pressing PTT key, it will transmit signal according the Frequency of Channel S if it is still scanning. it will transmit signal according to current channel If scan stops. while it is scanning , the green indicator LED blinks ,and then until it receives a signal , the indicator LED is always green.



## Voice Annunciation of Channel Number:

Turn on/turn off voice annunciation select:turn to channel 15, then press MONI key and hold,and turn on the transceiver.

## High/Low Power Select

Transceiver have 5W/1W power to select,high power work current is 1.5A,low is 0.8A.

High/Low power indicator:the LED light red on high power launching,light orange is low power launching.Press PTT key and turn on the transceiver,then sound"DI"means the transceiver change to high power,and soun"DI",DI"means change to low power.

## QT/DQT

The transceiver can use computer set the QT/DQT Some channels may have pre-programmed QT/DQT.In samme channel,transceivers talk to each other QT/DQT must same or all haven't QT/DQT

Note: Although using channels set up with QT/DQT relieves you from listening to unwanted calls,it doesn't means your calls will be private.

## Monitor

Press Monitor key open or close Monitor function.

## Urgent Alert

In the emergency,press monitor key about 10 second,transceiver sound high alert voice.Press PTT stop it.

## Wired Copy data

Use special copy data line connect with two transceivers.Turn on thereceiver.Frist,turn the sender CH8 and press MONI key and hold on,then turn on the power and hold on MONI key 2 second, enter copy data model start sending data,the red shine quickly, finish,green shine quickly, finish,green LED quench.

## Technical information

Unit sections	
Frequency range	136-174MHz
Output Power	5W/1W
Memory Channel	16
Modulation Model	Frequency Modulation
Frequency Stability	<+2.5ppm
Max.Frequency Devlation	<+2.5KHz
Power of Adjacent Channel	<-60dB
Reband Radlation	<-60dB
Distortion	<5%
Reference Sensitivity	<0.20uV
Squelch Sensitivity	<0.15uV
Selectivity of Adjacent Channel	<60dB
Spurious Response Rejection	<60dB
Interference Resistance	<60dB
Stand by Current	40mA(15mA in Save model)
Emission Gurrent	<1500mA
IRated Power	DC7.2V

## TROUBLESHOOTING GUIDE

Problem	Solution
No power.	<ul style="list-style-type: none"> <li>The battery pack may be dead. Recharge or replace the battery pack.</li> <li>The battery pack may not be installed correctly. Remove the battery pack and install it again.</li> </ul>
Battery power dies shortly after charging.	<ul style="list-style-type: none"> <li>The battery pack life is finished. Replace the battery pack with a new one.</li> </ul>
Cannot talk to or hear other members in your group.	<ul style="list-style-type: none"> <li>Make sure you are using the same frequency and Quiet Talk tone as the other members in your group.</li> <li>Other group members may be too far away. Make sure you are within range of the other transceivers.</li> </ul>
Other voices (besides group members) are present on the channel.	<ul style="list-style-type: none"> <li>Change the Quiet Talk tone. Be sure to change the tone on all transceivers in your group.</li> </ul>

## FREQUENCY CHART

Model Name: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Channel	Transmit Frequency	Receive Frequency	QT/DQT
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			