Cautions

The Users who will use our FRS should be recommended to read below first, and observe following guidelines :

- To maintain compliance with the FCC' s RF exposure guidelines, hold the transmitter and

antenna at least 2 inches (5 cm) away from your face, and speak in a normal voice.

Point the antenna up and away from your face.

- If you worn 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 cm) from the body.

- Use only the supplied antenna. Unauthorized antennas, modifications, or

attachments could damage the transmitter and may violate FCC regulations.

Your New RADIO(ORB-R15F)

ORBICLE's ORB-R15F operate on Family Radio Service(FRS) designated frequencies. This license-free, short range, two-way radio service was established specifically for family and group recreational use.

Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Batteries

ORB-R15F radios operate with 4 AAA alkaline batteries providing approximately 35hours of use. That is almost 5 hours of talk and over 30 hours of standby time.

To Install

1. Above all, Power off with radio.
2. Remove belt clip on back cover and cover pull down.
3. Insert 4 AAA batteries as well-fitting polarity.
4. Shut a cover and Power on.

To Communicate

ORB-R15F two-way radios have 14 channels. To communicate with others, all radios in your group must be set to the same channel.
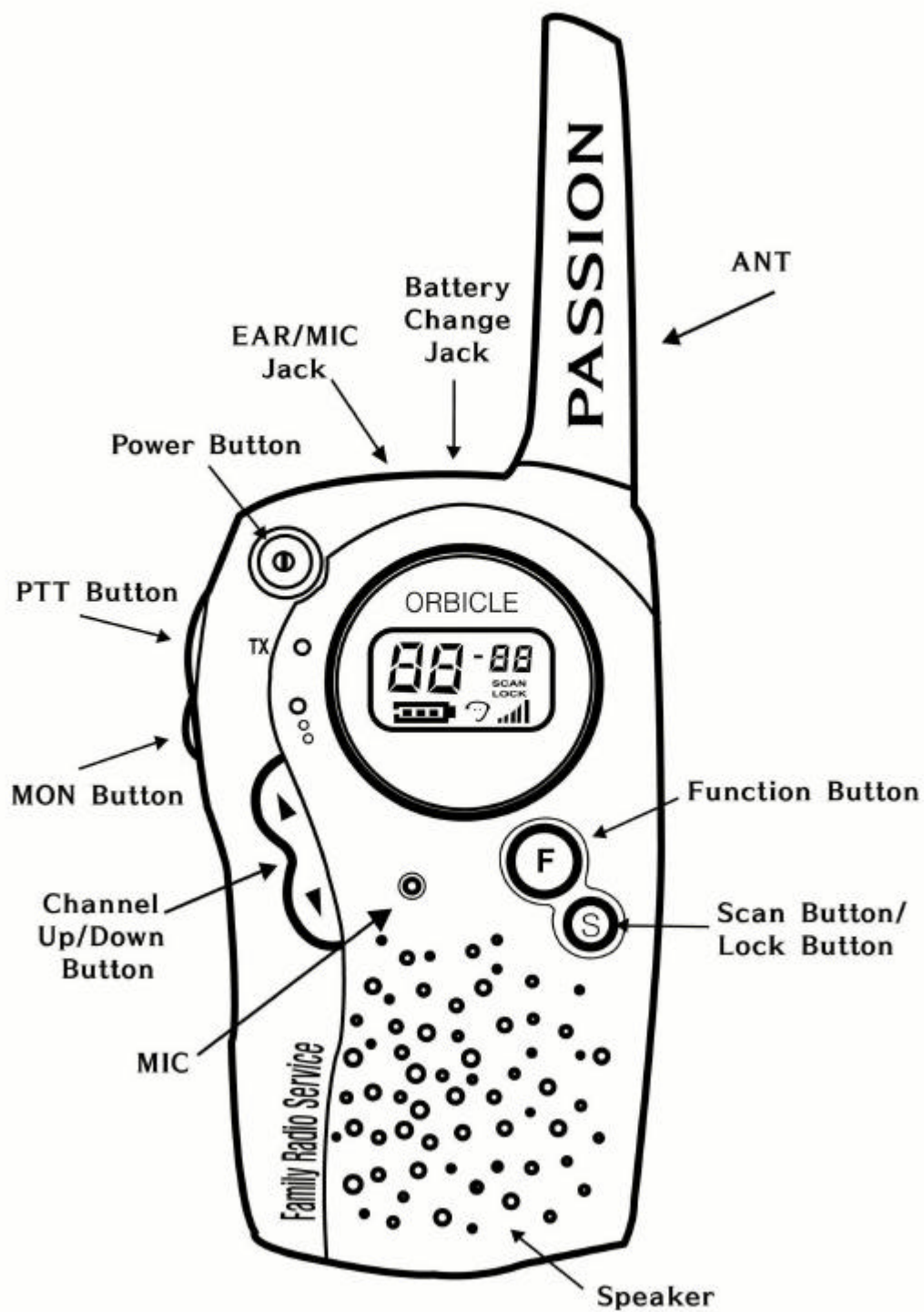
Turn The Radio On :

1. A Long press the **POWER** Button. Radio will beep and LED Indicator Light will flash to confirm. The display will show current channel and code.
2. To turn radio off, long press the **POWER** Button, Again. You can hear a beep and display disappears.

Monitor Button

The **Monitor[mon]** button lets you hear the radio's volume level when you are not receiving so you can adjust the volume. It is also used to check activity on current before transmitting.

EXTERNAL VIEW

PASSION

ANT

Battery
Change
Jack

EAR/MIC
Jack

Power Button

PTT Button

TX

MON Button

ORBICLE

SCAN
LOCK

Function Button

F

Channel
Up/Down
Button

S

Scan Button/
Lock Button

MIC

Family Radio Service

Speaker

Function of Each Part

88	—	Channel
-88	—	Tone Code (Private Channel)
🔋	—	Battery
🎧	—	Vox, Ext Ear/Mic
SCAN	—	Scanning
LOCK	—	Lock
📶	—	Volume

Adjust The Volume

Press **Volume** button knob, you reach a comfortable listening level. Press the Button **Up** to increase and **Down** to decrease volume.

Set The Channel

1. With radio on, press the Function Button, Current Channel (88) will begin to flash.
2. Press **Up/Down** Button to change channel while flashing.
3. Press **PTT** button or **Function** button after set new channel.

Set The Tone Code

1. With radio on, press the Function Button, Current Channel (88-small size) will begin to flash.
2. Press **Up/Down** Button to change code while flashing.
3. Press **PTT** button or **Function** button after setting new code.

Function The PTT(Transmission)

1. Transmit the signal and turn on the red color LED while press the **PTT** Button.
2. Change the stand-by mode if set free the **PTT** Button.

Call Tone

The Call Tone gets other's attention before you start talking. Press PTT Button two times continuous and users on your channel will hear your Call Beep. PASSION has 5 Call beep.

Set The Call Tone

1. With the radio on, press **Function** Button. Current Call Beep will begin to flash [C 01].
2. Use **Up/Down** Button to change and hear Call Beep while flashing.
3. Press **Function** Button to set new Call Beep.

Function The Monitor

1. Press **Monitor(MON)** Button and hear all signal of receiving in set channels while turn on the green color LED.
2. Keep Monitor Mode without press button while press 5 second continuously.
3. Set free after press **MON** Button one time.

Lock Button

Just turn on the menu lock by pressing the **Scan** Button for three seconds. Now you'll see a lock on the display. You can turn off the menu lock by pressing the **Scan** Button for three seconds again.

Lamp Button

Press **MON** Button one time, turn on the LCD back-light for three seconds. If press Button of up/down, Function, scan, etc and turn on the LCD back-light too.

Battery Meter

The Battery Meter, located on the front display, is divided into three bars.

As power is used, the bars will disappear.

1. Flash empty battery icon, you must change batteries.
2. The meter will not work accurately with rechargeable batteries.

   Note : Remove batteries before storing your radio for extended periods.

        Batteries corrode over time and may cause permanent damage to your radio.

External Speaker / Mic

ORB-R15F has a External Ear / Mic jack. (option)

How to Special Function

Scan

1. Just change scan mode as press **Scan** Button one time, will see [scan] icon on the front
   display. You can release scan mode as press **Scan** Button one time again.
2. Stop scanning in use channel if importing signal during scan channel. disappear signal in channel, stay for three seconds and scanning channel again.

VOX

You can transmit without press **PTT** Button and can use with external mic.

Power on pressing **PTT** Button, turn on **VOX** mode and you'll see VOX icon on display.

1. **Set the Sensitivity of VOX** : Display [Vo Lo] or [Vo Hi] in VOX Sensitivity mode, set press channel **up/down** button to [Lo / Hi]. In High sensitivity state, work more closely in even weak sound. You can store sensitivity setting by PTT Button one time shortly at that state.
2. For releasing VOX mode, Power on without pressing any button again.

Specifications

General

Frequency Range(Option) ------- 462.562MHz ~ 467.7125MHz

Distance Range ------------------ 3Km avg

Step ----------------------------- 12.5KHz

T-SQ Channel -------------------- 38 Tones

Voltage Operation --------------- DC 4.8V ~ 6V

Temperature --------------------- -10C ~ 50C

Transmitter ---------------------- CRYSTAL CONTROLLED PLL SYNTHESIZER

Receiver ------------------------- SUPERHETERODYNE SYSTEM

Dimension ----------------------- H-94mm, W-47mm, D-30.5mm

Weight --------------------------- 98g(Battery Excluded)

Power Supply -------------------- AAA size(1.5V) 4pcs

Transmitter

OUTPUT POWER--------------- 500mW

Frequency Stability ------------- 2.5PPm

Modulation ---------------------- F3E

Deviation Maximum------------- 2.5KHz

Distortion ------------------------ 5%

CTCSS Modulation ------------- 0.5KHz

Receiver

Sensitivity -------------------------- 0.25μV

Selectivity -------------------------- -60dB

Adjacent Channel ----------------- -60dB

Signal & Noise -------------------- -40dB

PSC(Power Saving Current) ----- 15mA under

Distortion -------------------------- 5%

Audio Output ---------------------- 250mW

Spurious Response --------------- -55dB