MBR-400

UHF Business Radio

User Manual

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Maxon America, Inc.

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MBR-400 Features

The Maxon MBR-400 is a simple and compact business radio perfect for restaurants, supermarkets, retail stores, and social clubs. Pocket sized, it fits perfectly in your palm and can be used with an earpiece *(included)* or loudspeaker audio. With a built-in antenna and unobtrusive swivel belt clip, you will be able to act freely and barely notice you are wearing a radio as you communicate to the rest of your co-workers throughout your day.

- Digital (DMR TierⅠ/Ⅱ TDMA) or Analog Mode.
- 16 Channels, 1 Zone
- Preprogrammed w/ 16 common Jobsite frequencies in DMR Digital or choose between 89 other Jobsite frequencies w/the Customer CPS program. *Dealer CPS can program within 440-480MHz. FCC License is required for use (Check page 15 for FCC details).*
- Mixed Channel Operation (Analog reception in Digital mode) **
- 2W (High) / .5W (Low) RF Power
- Encryption Mode (AES256 optional) **
- Channel Announcement **
- Battery Remaining Announcement
- Multiple Scan Modes, including Priority Scan
- Time-Out Timer (TOT) **
- Lone Worker (Safety Feature) **
- Emergency / Siren (Programmable Key) **
- Vibration Function
- Voice recording and playback
- VOX (Hands Free Transmit) **
- Remote Radio Stun / Revive (Disable Target Radio) **
- Built in Loudspeaker (1 Watt) & MIC
- Bright and vivid TFT LCD screen
- IP54 certified protected against blowing rain
- Built-in Battery (DC+3.7V Li-ion / 2,000Mah); Average Battery Life: 18 Hours

*** Feature enabled with Dealer-Version CPS Software*

Specifications

MBR-400 Business Radio Specifications

General

Frequency Range	440 ~480 MHz
Frequency Stability	±1.5ppm (-30 to +60℃)
Programmable Channels	16 Channels, 1 Zone
Channel Spacing	12.5KHz
Digital Vocoder	AMBE++ Voice Compression Algorithm
Dimensions	86mm(H) x 51.5mm(W) x 22mm(D)
Weight	100g
Power Source	DC +3.7V Li-ion 2,000mAH Battery (Built-in)
Current Drain (maximum)	Receive mode, rated audio out – 420 (Audio Max)
	Transmit mode – 1,200mA
	Standby mode – 100mA

Receiver

Sensitivity	0.25uV 12 dB SINAD
Squelch Sensitivity	0.22uV 10dB SINAD
Selectivity	60dB (12.5KHz)
Spurious and Harmonic Rejection	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Output Power	1 Watt across an 8ohm load
Audio Distortion	Less than 3% at rated output
Audio Response	+1, -3 dB from 6dB per octave de-emphasis Characteristic from 300 ~ 3000Hz
Input Impedance	50 ohms

Transmitter

RF Power Output	0.5 / 2 Watt
Adjacent Channel Power	60dB
Spurious and Harmonic	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Distortion	3% maximum with 1KHz modulation
Audio Frequency Response	+1, -3dB from 6dB per octave pre-emphasis Characteristic from 300 ~ 3000Hz
Output Impedance	50ohms

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1. In-Box Contents *(Subject to Change at Buyer's Request)*

MBR-400 Radio   Swivel Belt Clip   Single Slot Charger

C-Type Adapter w/Wall Plug   Headset

Figure 1-1) MBR-400 Main Package Contents

<u>Accessory Part Numbers:</u>

- MA-400L: Single Slot Charger
- PS-M4110: USA 110V/1A Adaptor
- MA-400C: USB-C Cable for Adaptor
- PS-M406110: USA 110V/1A Adaptor for Multi Charger
- MA-819X: Headset, "C" Style
- MA-40BC: Swivel Belt Clip
- MA-406L: 6 Slot Multi-Unit Charger

2. Description of Buttons & LCD Display

Built-in Antenna

PTT Button

2 PIN Accessory Jack.

Volume UP / Move Left

Volume DOWN / Move Right

Menu / Select

Power ON/OFF

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TFT LCD

Audio Accessory Jack

MIC Accessory Jack

Status Indication LED

USB C Type Jack

+ Charging Terminal   - Charging Terminal

USB C Type Jack
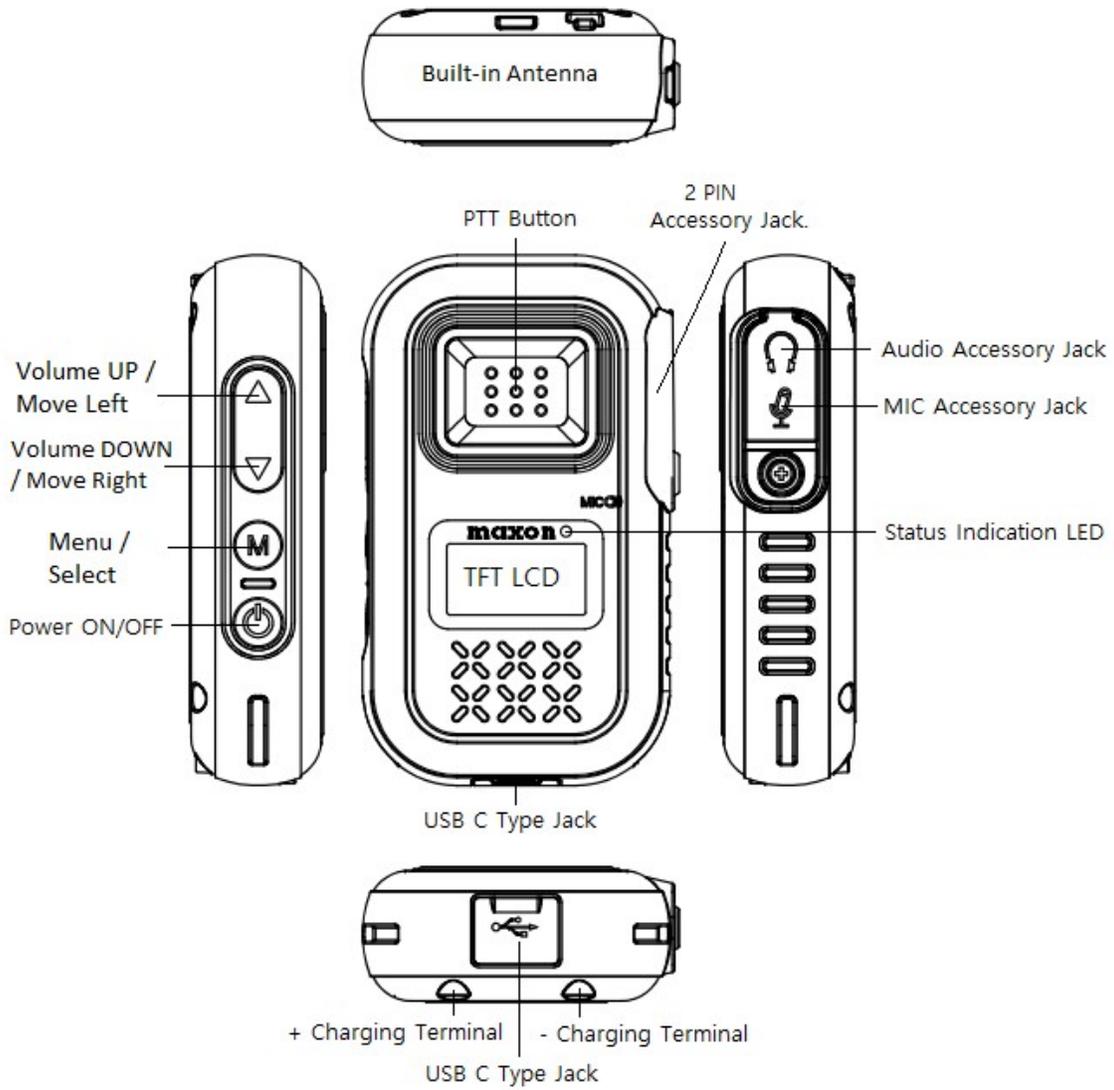
Figure 2-1) MBR-400 Layout

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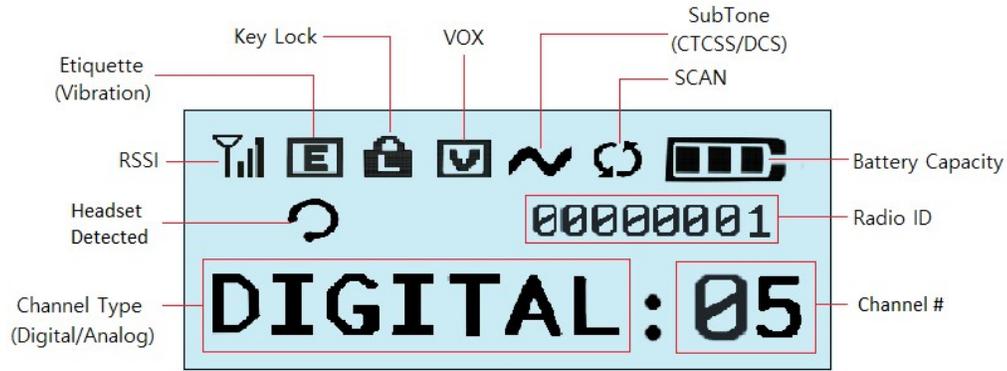
Figure 2-2) LCD Icons

3. Button and Accessory Jack Operations

Button & Jack	Operation Description
Power ON/OFF & Back out of Menus	Press & Hold the Power Button to turn on MBR-400. MAXON logo will appear on the LCD Screen followed by a chime sound. To turn off the radio, press & hold Power Button for 2-seconds, radio will turn off with "Goodbye" announcement To move back out of menu selections one step at a time, Quick Press the "Power On/Off" button for less than 2 seconds.
PTT Button	The radio transmits voice when you press and hold down the PTT button as you speak. PTT button must be released (not pressed down) to receive any transmissions. Please speak 5-7cm away from the MIC to transmit a clear voice.
Volume UP / DOWN Button, Left / Right Menu, & Button Unlock	If you press & hold Volume Up Button your audio volume scrolls louder one step at a time. Pressing Volume Down decreases your volume. Volume level has a total of 16 steps. For selecting Menu options, press the "Volume Up/Down Button" to move your highlighted selection either up and down or left and right within a menu. To unlock Button/Keypad lock, press and hold Volume Down for 8 Seconds.
Menu / Select Button	To enter your Menu screen, press the "Menu Button". Digital Mode provides three menu options such as Contacts, Record, and Settings. Analog Mode provides only the Settings option. Press "M" again to make a selection within a menu. From within the menu screen, to dismiss all menu options and return to the welcome screen, press and hold the "Menu button" for about 2 seconds.
2 Pin Accessory Jack	2 Pin Accessory / MIC Jack is used for: 1) Audio & Microphone Accessories 2) Programming Cable to set CPS Program 3) Interfacing with external devices.

4. Installation & Removal

4.1 Belt Clip Installation and Removal
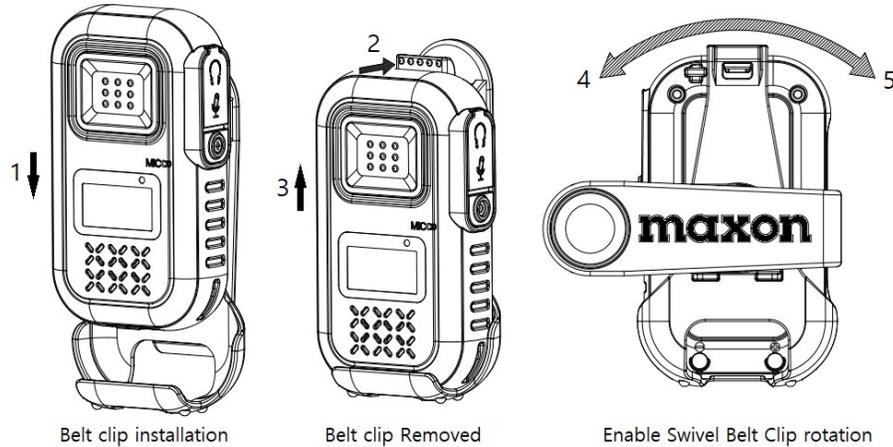
Figure 4-1) Belt Clip Installation and Removal

To attach the Swivel belt clip to MBR-400, align the belt clip to the back of MBR-400 as shown in the figure 4-1 above and push it down to direction 1 and back against the locking tab. The clip will "click" when locked. To remove the belt clip, push the belt clip locking tab into direction 2 and pull the belt clip up to direction 3. In case the user wears the MBR-400 around the waist, the belt clip can turn to direction 4 or 5 to make it more convenient.

4.2 External Accessory Connector Jack

To connect external accessories as shown in figure 4-2, open the accessory jack cover, align the MBR-400 and the accessory, and then push-in the accessory. To remove the accessory, carefully pull-out the accessory connector from the middle of the connector and close the accessory cover to re-seal the jack.

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5. Charging the Battery

Figure 4-2) Accessory Jack for Audio Accessories

MBR-400 can use the MA-400Lcharger or a USB-C Charger used by mobile phones and other devices to charge the radio. When actively charging, the LCD screen displays charging status. A Battery Icon on the screen will indicate full charge when charging is completed.

5.1 Charging Requirements
Low battery voltage may reduce communication coverage and also degrade performance.
   Please charge the battery in case of the following:
   1) When the performance has been degraded.
   2) When the battery Icon blinks indicating low battery.
   3) When you hear the 'warning sound' during operation.

5.2 How to Charge
MBR-400 can be charged with the in-box MA-400L charger and also most chargers using a USB C-type cable. *USB ports from a computer may not have enough power to charge a radio while the radio is turned on.*

1) Charging with MA-400L Charger

Plug the adaptor of MA-400L charger into AC110V power outlet. Turn off the power of the MBR-400 unit and insert the device into the charger. You do not need to take off the belt clip, your radio is designed to be charged while the holster is still attached (see Figure 5-1).
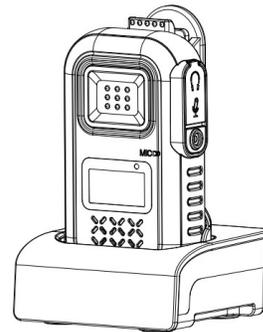
Figure 5-1) MBR-400 & Belt Clip charging with MA-400L Charger

2) Charging with USB C-Type Charger
Insert a USB C-type adapter into the USB C-Type Jack as shown in figure 5-2.

When charging is completed, you see the blue battery icon as shown below:

Figure 5-2) USB C-type charger

6. MBR-400 Operations

MENU Screen

To enter the radio menu as displayed in Figure 6-1, press the Menu button Ⓜ.

If you press the menu button once you are in the Menu, it selects whatever you have highlighted. This may move you into a more detailed menu within what you have selected.

 (Digital Menu Shown)

The menu tree below shows the detail of the available selections you may have within your radio's menu depending on the Radio Mode you are in (Analog Channel vs Digital Channel) and what has been turned off or on with the CPS programmer.

Function & Device Settings choices are determined by whether you are on a Digital Channel (Digital Mode) or an Analog Channel (Analog Mode), and whether that feature or setting has been turned on or off with the CPS Programmer.

Function Settings in Analog Mode: Subtone, SQ Level
Function Settings in Digital Mode: Encryption, Color Code, Radio ID

Functions and Settings that are Standard for Retail Version

Figure 6-1) MBR-400 Menu Tree

☞ Note) If no menu selections are made within 25 seconds, the radio will go into Standby Mode.

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1) Contact List (Digital Mode Only)

The Contact List provides a list of individuals, Groups, or "All Calls" to whom you can make a Direct Call when on a Digital Channel. Contact Lists are set-up within the radio using the CPS Software. To initiate a call, select the Contact section from the Menu. Press the Menu/Enter button to see the list of contacts, press the ▲▼ keys to select the desired contact and press the PTT button to initiate the call. The radio will revert to the original contact/channel after a preset time as set by the CPS Software. When you enter in the contact menu, the applicable icon below will be shown indicating the type of call.

Contact ICONs:

- : Individual Contact List

- : Group Contact List

- : All Contact List *(Used to contact everyone on the same channel and color code)*

2) Voice Record (Digital Mode Only)

This function is used to record the content of outgoing and incoming calls in digital mode only. Up to 63 conversations/recordings can be stored with each recording limited to 150 seconds. When the recordings exceed 63, the oldest message is overwritten. There are 3 choices within Voice Recording Menu: Settings, Lists, and Delete All.

Settings - Allows the capability to turn the recording capability on/off.

Lists – View list of recorded messages to playback each message. To playback a message, use the ▲▼ key to the desired message and press the Menu/Enter button to play the recording.

Delete All – Provides the capability to delete stored recordings. You cannot delete messages one at a time. To delete recordings, select Delete All from within the Voice Recording menu by pressing the menu/enter button, the question to Delete All? will appear with the word "Yes". Press the menu/enter button to delete all messages. If you choose not to delete the messages, press the return button to exit out.

3) Settings

The Settings menu provides three options; **Device Settings**, **Function Settings**, and **Radio Info**.
**Setting/Function can be turned on / adjusted once the setting is activated via CPS program.

1. **Device Settings**: Adjust Channel, Sound, Backlight, Etiquette (Vibrate), Screen, Language, *Status LED** & Button Lock**.*
2. **Function Settings**: Digital Channels (Digital Mode) and Analog Channels (Analog Mode) provide different options for the radio. Digital Mode provides settings for Color Code and Radio ID, & *Encryption***, Analog Mode provides settings for Sub Tone & SQ level. VOX, Scan On/Off *Lone Worker**, and BCL/BCLO*** are provided in common for both Analog and Digital.
3. **Radio Info**: Provides General & Technical information about your radio.

(1) <u>Device Settings</u> *(** Setting not available in Retail version, Add w/CPS Software)*

① Channel Set

'Channel Set' allows you to select a preprogrammed channel to make a call. Channels can be programmed with the CPS Software.

② Sound

'Sound' allows you to adjust sounds of the radio. In the volume menu, sound can be adjusted in four different modes; Off, Soft, Medium, and Loud. In the Call Tone menu, call-related sound transmitted / received can be set to either On / Off.

③ Backlight

'Backlight' function allows you to switch the LCD's backlight to be "ON/OFF" or "Timed". Duration of "Timed" option can be programmed using CPS Software.

④ LED Control**

'LED Control' allows you to enable or disable the radio status LED. The LED status can be set via CPS Software.

⑤ Keypad Lock**

'Keypad Lock' locks the keypad to prohibit any accidental press of keys and buttons. When keypad lock is enabled, all keys/buttons are locked except PTT button and power ON/OFF button. When any of the side keys are pressed, the display shows "Press Unlock button". If a key has been assigned to unlock the keypad, the radio resumes normal operation. When no buttons are pressed for the pre-determined time, keypad lock is automatically enabled. ***If no keys are assigned to unlock the keypad, the down button can be pressed for 8 seconds to disable it.***

⑥ Etiquette (Vibrate)

'Etiquette' informs you of an incoming call by vibration without making a reception sound. When you want to hear the voice of the caller, momentarily press the PTT button. When there is no button input by the user for 30 seconds after the call, it is switched back to etiquette mode (vibration mode).

⑦ Screen Settings

Screen Settings contains two settings options, Screen Type and Screen Kind. Screen Type provides three channel formats to be displayed. Screen Kind provides two background settings. A Bright Screen and a Dark Screen. Selecting Bright Screen is a light blue background with black lettering. The Dark Screen is black background with white lettering.

The 3 Screen Types are shown below. The information displayed can be set via CPS Software. Contact your Authorized Dealer for further information

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Screen 1: DIGITAL: 01   Digital channel #1

Screen 2: CH: 01D   Channel #1 and is digital

Screen 3: DMR Ch1   Channel Alias

Figure 6-2) MBR-400 Screen Setting View

⑧ Language

This function is to select the language (English or Spanish) for the menus.

(2) Function Settings *(** Function not activated in Retail version; Enable w/CPS SW)*

① Subtone (Analog Mode Only)

Subtone functions only on Analog Channel. A user may set three subtones of CTCSS/DCS/Reverse DCS. Feature is selectable with both the CPS and via the radio itself.

② Encryption** (Digital Mode Only)

This function is to encrypt transmission and reception voice.

Voice Encryption function can be set for each channel on all digital channels.

The voice encryption code is set in the CPS program and provides 128/192/256-bit encryption

③ VOX

VOX function allows a user to transmit voice without pressing the PTT button.

VOX sensitivity level is adjusted from 1 to 5 with 1 being the LEAST sensitive; *you will need to speak loudly to activate VOX on setting 1.*

④ Lone Worker** (Digital Mode Only)

Used as a safety feature to send an alert to others if you do not use your radio within a predetermined amount of time that is set in the menu.

⑤ BCL/BCLO**

This function prevents interference when the channel is busy.

 Digital Mode Only

BCL On: If the current channel is busy, the transmission is prohibited.

 Analog Mode

BCL On & BCLO Off: If the current channel is busy, transmitting is prohibited.

BCL On & BCLO On: Transmitting occurs when it matches the received tone.

⑥ Squelch Level** (Analog Mode only)

This function allows users to change squelch levels of Open, 1,2,3,4, or Tight. Tightening the

squelch reduces the chance of the audio unmuting due to RF interference.

⑦ Color Code (Digital Mode Only)

Color Codes are used in DMR to help separate radios on the same frequency & is selectable with both the CPS program and via the radio itself. The radio setting allows you to change your color code value between 0 and 15.

- Press MENU then go to Settings/Function Settings/Color Code. You should see Color Codes of 0 ~ 15. Scroll to the desired Color Code and press the MENU key to store it. The POWER button is used as a back one step button. 4 button presses will escape back to the channel number or a long press of the menu button will exit the menu.

⑧ Radio ID (Digital Mode Only)

Radio ID is assigned to each radio to identify the operator of the radio. The corresponding ID number and name will appear on the receiving radio. The OWN ID can be set-up in the CPS software or via the radio itself

- Press MENU then go to Settings/Function Settings/Radio ID. You should see a Radio ID of 00000001. Press MENU again to begin the change. UP/DOWN buttons change the value while the MENU button advances to the next number. When you get to the end press the MENU button again to save the setting. POWER button is used as a back one step button. 4 button presses or a long press of the power button will exit back to the standby screen.

⑨ Scan On/Off

This function allows user to turn scan on/off for a scan list that is programmed via CPS Software. User can scan digital and analog channels to find a channel in use.

(3) **Radio Info**

Radio Info contains all the general & technical information of the radio such as; Radio ID, Mode Name, PCB Version, Frequency Range, SW Version, BB Number, BB Version, Last Update, Made Date and DB Version.

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7. Licensing & Frequency Charts

FCC LICENSING INFORMATION

INTERFERENCE INFORMATION

This device complies with Parts 90 and 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful Interference. MBR-400 Series radios operate on radio frequencies regulated by the Federal Communications Commission (FCC). To transmit on these frequencies, you are required to have a license issued by the FCC. Application is made available on FCC Form 601 and Schedules D, H, and Remittance Form 159.

To obtain these FCC forms, request document 000601 which includes all forms and instructions. If you wish to have the document faxed, mailed or have questions, use the following contact information to contact the FCC.

1-202-418-0177
1-800-418-FORM (1-800-418-3676)
1-888-CALL-FCC (1-888-225-5322)
Or: http://www.fcc.gov

7.1 UHF Frequency charts

MBR-400's first 16 channels are preprogrammed out of the box with the first 16 channels listed below.

The CPS Programmer for the MBR-400 is preprogrammed with all the frequencies listed below and can be used to change the contents of the channels of your radio and set your radio to digital or analog mode.

UHF Frequency Charts		
MBR-400		
Channel	Transmit (TX) Frequency	Receive (RX) Frequency
1	464.5000	464.5000
2	464.5500	464.5500
3	467.7625	467.7625
4	467.8125	467.8125
5	467.8500	467.8500
6	467.8750	467.8750
7	467.9000	467.9000
8	467.9250	467.9250
9	461.0375	461.0375
10	461.0625	461.0625
11	461.0875	461.0875
12	461.1125	461.1125
13	461.1375	461.1375
14	461.1625	461.1625
15	461.1875	461.1875
16	461.2125	461.2125
17	461.2375	461.2375
18	461.2625	461.2625
19	461.2875	461.2875
20	461.3125	461.3125
21	461.3375	461.3375
22	461.3625	461.3625
23	462.7625	462.7625
24	462.7875	462.7875
25	462.8125	462.8125
26	462.8375	462.8375
27	462.8625	462.8625
28	462.8875	462.8875
29	462.9125	462.9125
30	464.4875	464.4875
31	464.5125	464.5125
32	464.5375	464.5375
33	464.5625	464.5625
34	466.0375	466.0375
35	466.0625	466.0625
36	466.0875	466.0875
37	466.1125	466.1125
38	466.1375	466.1375
39	466.1625	466.1625

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UHF Frequency Charts		
MBR-400		
Channel	Transmit (TX) Frequency	Receive (RX) Frequency
40	466.1875	466.1875
41	466.2125	466.2125
42	466.2375	466.2375
43	466.2625	466.2625
44	466.2875	466.2875
45	466.3125	466.3125
46	466.3375	466.3375
47	466.3625	466.3625
48	467.7875	467.7875
49	467.8375	467.8375
50	467.8625	467.8625
51	467.8875	467.8875
52	467.9125	467.9125
53	469.4875	469.4875
54	469.5125	469.5125
55	469.5375	469.5375
56	469.5625	469.5625
57	462.1875	462.1875
58	462.4625	462.4625
59	462.7875	462.7875
60	462.5125	462.5125
61	467.1875	467.1875
62	467.4625	467.4625
63	467.4875	467.4875
64	467.5125	467.5125
65	451.1875	451.1875
66	451.2375	451.2375
67	451.2875	451.2875
68	451.3375	451.3375
69	451.4375	451.4375
70	451.5375	451.5375
71	451.6375	451.6375
72	452.3125	452.3125
73	452.5375	452.5375
74	452.4125	452.4125
75	452.5125	452.5125
76	452.7625	452.7625
77	452.8625	452.8625
78	456.1875	456.1875

UHF Frequency Charts		
MBR-400		
Channel	Transmit (TX) Frequency	Receive (RX) Frequency
79	456.2375	456.2375
80	456.2875	456.2875
81	456.3375	456.3375
82	456.4375	456.4375
83	456.5375	456.5375
84	456.6375	456.6375
85	457.3125	457.3125
86	457.4125	457.4125
87	457.5125	457.5125
88	457.7625	457.7625
89	457.8625	457.8625

7.2 CTCSS and DCS Code Tables *(for use with CPS program)*

CTCSS Code Table

CTCSS	Freq Hz	CTCSS	Freq Hz	CTCSS	Freq Hz
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.8
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100.0	25	156.7	38	250.3
13	103.5	26	162.2		

DCS Code Table

DCS	Code	DCS	Code	DCS	Code	DCS	Code	DCS	Code	DCS	Code
1	023	17	116	33	243	49	365	65	546	81	734
2	025	18	125	34	244	50	371	66	565	82	743
3	026	19	131	35	245	51	411	67	606	83	754
4	031	20	132	36	251	52	412	68	612		
5	032	21	134	37	261	53	413	69	624		
6	043	22	143	38	263	54	423	70	627		
7	047	23	152	39	265	55	431	71	631		
8	051	24	155	40	271	56	432	72	632		
9	054	25	156	41	306	57	445	73	654		
10	065	26	162	42	311	58	464	74	662		
11	071	27	165	43	315	59	465	75	664		
12	072	28	172	44	331	60	466	76	703		
13	073	29	174	45	343	61	503	77	712		
14	074	30	205	46	346	62	506	78	723		
15	114	31	223	47	351	63	516	79	731		
16	115	32	226	48	364	64	532	80	732		

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8. Precautions

8.1 Precautions for safe operation

⚠ Caution	Don't use other manufacturer's accessories (such as rechargeable battery, adaptor, external speaker microphone and earphone, etc.). Unknown or unauthorized accessories may damage the radio and void the warranty.

⚠ WARNING	Don't disassemble or rearrange the parts and accessories of your radio. The disassembly or reorganization of your radio is punishable by law and can cause damage to the radio that will not be covered by the warranty.

⚠ WARNING	Don't use frequencies you do not have a permit for.

⚠ Caution	Avoid excessive shock to the Radio. Don't place the radio in direct sunlight or in extreme high temperature. Battery damage can occur in those environments. Do not disassemble or damage the battery pack.

8.2 Do not use the radio where prohibited

Your radio emits a strong electronic wave which may have an effect on the operation of other equipment and can also be affected by those other devices.

⚠ WARNING	Please turn off the radio before boarding an airplane. If you want to use the radio during flight, please adhere to the aircraft's rules.

⚠ WARNING	If using the radio in an area where medical equipment is being used, please get permission from the staff before use to prevent interference issues.

⚠ Caution	Be careful when using your radio in a place where computers or other electronic devices are being used because the strong electronic waves from the radio can affect this equipment.

9. Safety Notes & FCC

9.1 Safety Notes & FCC

Please make sure to read the followings above for safe and effective use of the radio.

⚠️ WARNING	• Please keep the Radio away at least 1 inch from the body. • Do not touch antenna if it is damaged. Risk of skin burn can occur if the outside surface of antenna is stripped out. • Please be careful when putting the battery in a pocket or a bag. If you contact a conductive metal to a battery terminal, there is a heat and fire risk to your radio. • Please don't listen to the radio at a high-volume level when using earphones. Loud volume may have a lasting bad effect on your hearing. • It is recommended to adjust the volume step by step to the level you want after you set the radio volume of the radio at a low level. • Please don't remove or replace or charge or discharge the battery in a hazard area where sparks could cause an electrical fire. • Turn off the radio in areas where there is a strong electromagnetic force.

FCC RF EXPOSURE COMPLIANCE REQUIREMENTS FOR OCCUPATIONAL USE ONLY

The Federal Communications Commission (FCC), with its action in General Docket 93-62, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act (OSHA) and Federal Communications Commission limits.

- DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.

- This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where radio operator must have the knowledge to control the user's exposure conditions for satisfying the higher exposure limit allowed for occupational use.

- When transmitting, hold the radio in a vertical position with its microphone 1 inches (2.5 cm) away from your mouth.

- The radio is transmitting when the red LED on the front of the radio is illuminated. You can cause the radio to transmit by pressing the PTT bar on the radio.

- These are required operating configurations for meeting FCC RF exposure compliance. Failure to observe these restrictions means violation.

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

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Warranty Card

Thank you for purchasing MBR-400.

1. This product has passed the strict quality control and testing procedures.
2. Warranty is one year from original date of purchase from an Authorized Maxon Dealer or Authorized Online Retailer.
   - Failure of the product under normal operating conditions during the warranty period may be repaired by Maxon America free of charge.
3. For the following cases, service fees will be charged.
   - When repair occurs after the warranty period has passed.
   - When the product is damaged due to user's mishandling, abuse or improper operation.
   - When the product is damaged due to user's modification, attempted repair or otherwise
     - access to sealed/non-user serviceable items.
   - When the product is damaged due to fire, pollution, earthquakes and any other natural
     - or unnatural conditions, accidents, etc.

4. Personal information for radio:

Model Name		MBR-400
Serial No.		
Purchase Date		
Purchaser	Name	
	Address	

※ Please contact Maxon below for Return Merchandise Authorization (RMA) number before you send your radio back for service. Shipping to Maxon will be the responsibility of the user.

Maxon America

11535 West 83rd Terrace, Lenexa KS 66214

Tel: 800-456-2071

Fax: 913-859-9550

maxon®

Maxon America, Inc.

11535 W. 83rd Terrace, Lenexa, KS 66214
Toll-Free: 800-456-2071 (US Only), 913-859-9515
Website: www.maxonamerica.com

This User manual is subject to change without notice.