



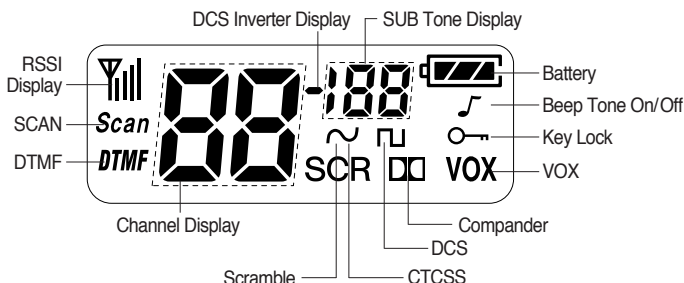
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## TJ-3400UM User Manual Addendum

Thank you for your purchase. This addendum is to provide additional information on the operation and features of the TJ-3400UM. Please note that certain functions and operations of the TJ-3400UM will differ from those listed in the TJ-3000 Series User Manual.

### Display for TJ-3400UM



### Basic Operation

1. Install the battery, belt clip and antenna onto the radio. Properly charge the battery.
2. Turn the radio on by rotating the volume knob clockwise past the detent. Adjust the volume to an appropriate level.
3. The 4 channels of the radio are preprogrammed to the following:

Channel Indicator on Radio	Channel Number & Frequency	CTCSS
1	2 - 464.5500	1 - 67.0
2	8 - 467.9250	1 - 67.0
3	5 - 467.8500	1 - 67.0
4	6 - 467.8750	1 - 67.0

Refer to UHF Frequency Charts, CTCSS Frequency Table, and DCS Tone Table for complete listings.

4. To change channels press the up or down button on the front of the radio.

5. Press and hold the PTT button on the side of the radio to begin transmitting. Begin speaking after the Clear-To-Talk cadence (this function can be turned on or off) and speak normally into the microphone section with the radio a couple of inches from your mouth. Release the button for standby or receive mode.
6. The M button on the side of the radio is for monitoring the channel. This should be pressed before transmitting to ensure the channel is clear.
7. Pushing the orange button on the top of the radio displays the actual frequency number along with any of the associated CTCSS/DCS tones.  
Examples: If you are on channel 1 and press the orange button and you see 1 ~ 1, then the radio is operating on 464.5000MHz with a CTCSS tone of 67.0Hz. If you are on channel 2 and press the orange button and you see 56 ~ 2, then the radio is operating on 469.5625MHz with a CTCSS tone of 71.9Hz. Reference the UHF Frequency Chart, CTCSS Frequency Table, and DCS Tone Table for all available frequencies and tones.

## Functions Operation


Key Lock is used to lock all buttons except for Monitor and PTT. To lock the buttons press the P button and the up arrow at the same time. To unlock the buttons press the P button and the down arrow at the same time.

The P button on the side of the radio allows access to the following functions:

- Tones (CTCSS or DCS)
- Audio Compander
- Voice Activated Transmit (VOX)
- Scan
- Beep Tones
- Dual Tone Multi Frequency (DTMF)
- Call Alert
- Roger Beep
- Clear-To-Talk (CTT)
- Squelch Setting
- Voice Scramble
- Power Save

To enter the mode of changing functions, press and hold the P button for 2 seconds. Presses thereafter take you to the next function.

- a. The first function will go to Tones. Press the up or down button to scroll through the different types of sub-tones: 0 (No Tone), ~ (CTCSS), □ (DCS), and ▢ (inverted DCS). When the desired sub-tone is selected, press the middle button on the front of the radio. Next press the up or down button to scroll through the tones available in that sub-tone type selected. Press the middle button to select and save.

- b. The next P press will go to Audio Comander capability. The display will show the compander symbol . To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is on. **Note: To be compatible with Motorola CLS Series of radios, compander must be ON.**
- c. The next P press will go to VOX mode. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. If enabled, the next step is to select the transmit sensitivity level with 1 being the most sensitive and 9 being the least sensitive. Default is off.
- d. The next P press will go to Scan mode. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is off.
- e. The next P press will go to Beep Tones. These are the tones associated with button presses. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is off.
- f. The next P press will go to DTMF. To set ON/OFF, toggle it by pressing the up or down button, then the middle button to select and save. If enabled, there are 10 different sequential tone sets to choose from; tones are sent by pressing the PTT button. Default is off.
- g. The next P press will go to Call Alert. This is to alert the receiving party that you wish to communicate by sending a sequence of tones via the press of the middle button. To set ON/OFF, toggle it by pressing the up or down button, then the middle button to select and save. If enabled, there are 10 different call alert tones to choose from; as a reminder, the alert tone is sent by pressing the middle button. Default is off.
- h. The next P press will go to Roger Beep. This allows a tone to be sent at the end of the transmission letting the receiving party know you are done talking. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is off.
- i. The next P press will go to Clear-To-Talk (CTT). This provides a sequence of tones indicating the radio is ready for transmitting. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is on.
- j. The next P press will go to Squelch. There are levels from 0~9 with 0 being open squelch and 9 being tight squelch.
- k. The next P press will go to Voice Scramble. This allows conversations to be heard by only those that have it enabled. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. If enabled, there are 8 inversion frequencies to choose from:
 

1. 2700Hz	2. 2800Hz
3. 2900Hz	4. 3000Hz
5. 3100Hz	6. 3200Hz
7. 3300Hz	8. 3400Hz

 Default is off.

- I. The next P press will go to Power Save. This extends the battery life if enabled. To set ON/OFF, toggle it by pressing the up or down button then the middle button to select and save. Default is off.

## Channel Setup

This section describes how to change the frequency of each channel and the number of channels you would like to have being used or selected.

1. To enter the frequency selection mode, press and hold the Monitor button, then turn the radio on. The display will show "1 CH". This indicates the channel number 1 and the radio is now in channel edit mode allowing up to 4 channels to be individually set. (The defaults for channels 1 through 4 are shown at the beginning of this Addendum.) To change the frequency of a channel, use the up or down button to go to one of the 4 channels. Press the middle button, and the current channel will illuminate in the upper right hand corner of the screen. Press the up or down button to select one of the 56 available frequencies. Press the middle button to save the frequency.
2. To select the number of channels (1, 2, 3, or 4) you wish to be used and displayed, press the P button and the display will show "1 On" This number indicates the number of channels that will be operational. There are 1 to 4 channels selectable. If you want channel 1 to be the only channel available, select 1 (display will show "1 On"). If you want channels 1 and 2 to be the only channels available, select 2 (display will show "2 On"). If you want channels 1, 2 and 3 to be the only channels available, select 3 (display will show "3 On"). If you want all 4 channels available, select 4 (display will show "4 On"). Press the middle button to save. Turn the radio off then back on and check the operation.

## UHF Frequency Charts

Maxon TJ Series  
Model TJ-3400UM UHF Radio

Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
1	464.5000	464.5000	2	N
2	464.5500	464.5500	2	N
3	467.7625	467.7625	2	N
4	467.8125	467.8125	2	N
5	467.8500	467.8500	2	N
6	467.8750	467.8750	2	N
7	467.9000	467.9000	2	N
8	467.9250	467.9250	2	N
9	461.0375	461.0375	2	N
10	461.0625	461.0625	2	N
11	461.0875	461.0875	2	N
12	461.1125	461.1125	2	N
13	461.1375	461.1375	2	N
14	461.1625	461.1625	2	N
15	461.1875	461.1875	2	N
16	461.2125	461.2125	2	N
17	461.2375	461.2375	2	N
18	461.2625	461.2625	2	N
19	461.2875	461.2875	2	N
20	461.3125	461.3125	2	N
21	461.3375	461.3375	2	N
22	461.3625	461.3625	2	N
23	462.7625	462.7625	2	N
24	462.7875	462.7875	2	N
25	462.8125	462.8125	2	N
26	462.8375	462.8375	2	N
27	462.8625	462.8625	2	N
28	462.8875	462.8875	2	N
29	462.9125	462.9125	2	N
30	464.4875	464.4875	2	N
31	464.5125	464.5125	2	N
32	464.5375	464.5375	2	N
33	464.5625	464.5625	2	N
34	466.0375	466.0375	2	N
35	466.0625	466.0625	2	N
36	466.0875	466.0875	2	N
37	466.1125	466.1125	2	N
38	466.1375	466.1375	2	N
39	466.1625	466.1625	2	N
40	466.1875	466.1875	2	N
41	466.2125	466.2125	2	N
42	466.2375	466.2375	2	N
43	466.2625	466.2625	2	N

## UHF Frequency Charts

Maxon TJ Series  
Model TJ-3400UM UHF Radio

Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
44	466.2875	466.2875	2	N
45	466.3125	466.3125	2	N
46	466.3375	466.3375	2	N
47	466.3625	466.3625	2	N
48	467.7875	467.7875	2	N
49	467.8375	467.8375	2	N
50	467.8625	467.8625	2	N
51	467.8875	467.8875	2	N
52	467.9125	467.9125	2	N
53	469.4875	469.4875	2	N
54	469.5125	469.5125	2	N
55	469.5375	469.5375	2	N
56	469.5625	469.5625	2	N

### Sub-Tone Table

#### CTCSS Frequency Table

No.	Frequency	No.	Frequency	No.	Frequency	No.	Frequency	No.	Frequency
1	67.0	14	107.2	27	167.9	40	159.8	53	64.7
2	71.9	15	110.9	28	173.8	41	183.5		
3	74.4	16	114.8	29	179.9	42	189.9		
4	77.0	17	118.8	30	186.2	43	196.6		
5	79.7	18	123.0	31	192.8	44	199.5		
6	82.5	19	127.3	32	203.5	45	206.5		
7	85.4	20	131.8	33	210.7	46	229.1		
8	88.5	21	136.5	34	218.1	47	254.1		
9	91.5	22	141.3	35	225.7	48	165.5		
10	94.8	23	146.2	36	233.6	49	171.3		
11	97.4	24	151.4	37	241.8	50	177.3		
12	100.0	25	156.7	38	250.3	51	60.7		
13	103.5	26	162.2	39	69.3	52	62.5		

## DCS Tone Table

No.	DSC Code	No.	DSC Code	No.	DSC Code	No.	DSC Code	No.	DSC Code	No.	DSC Code
1	023	19	131	37	261	55	431	73	654	91	252
2	025	20	132	38	263	56	432	74	662	92	255
3	026	21	134	39	265	57	445	75	664	93	266
4	031	22	143	40	271	58	464	76	703	94	274
5	032	23	152	41	306	59	465	77	712	95	325
6	043	24	155	42	311	60	466	78	723	96	332
7	047	25	156	43	315	61	503	79	731	97	356
8	051	26	162	44	331	62	506	80	732	98	446
9	054	27	165	45	343	63	516	81	734	99	452
10	065	28	172	46	346	64	532	82	743	100	454
11	071	29	174	47	351	65	546	83	754	101	455
12	072	30	205	48	364	66	565	84	053	102	462
13	073	31	223	49	365	67	606	85	122	103	523
14	074	32	226	50	371	68	612	86	036	104	526
15	114	33	243	51	411	69	624	87	145		
16	115	34	244	52	412	70	627	88	212		
17	116	35	245	53	413	71	631	89	225		
18	125	36	251	54	423	72	632	90	246		

We hope you will enjoy the operational ease and diversity associated with this radio. If you have any questions, feel free to call us at 1-800-456-2071 (US Only) or 913-859-9515.

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