Northeast Region Communications Handbook 2017

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CIVIL AIR PATROL

Northeast Region

Communications Radio Guide Book

2016R1 Version

This guide book is the benefit of the Northeast Region Civil Air Patrol. It is to be used for Civil Air Patrol Business.

This Communications Radio Guide Book contains channel assignments for the NER Wing. It also contains procedures for NER communications and the wings. This book will assist all members in the ability to maintain communications while on various missions and activities when VHF radios are in use.

Table of Contents

Ground Team Section	2-3
Aircrew Section	4
CAP Radio Procedures	5-7
Aircraft call signs	8-13
VHF Frequency Designator Tables	14-30
HF nets and call signs	31-48
HF Radio Info	48-55
Mobile Call Signs	56-59
Repeater Maps	60-65
Additional Radio Info	66-70

PLEASE PRACTICE and USE your Radio Gear on a regular basis.
The Radios are meant to be used. Use them properly.
For additional information regarding NER Communications, see
https://ner.cap.gov/index.php/missions/communications

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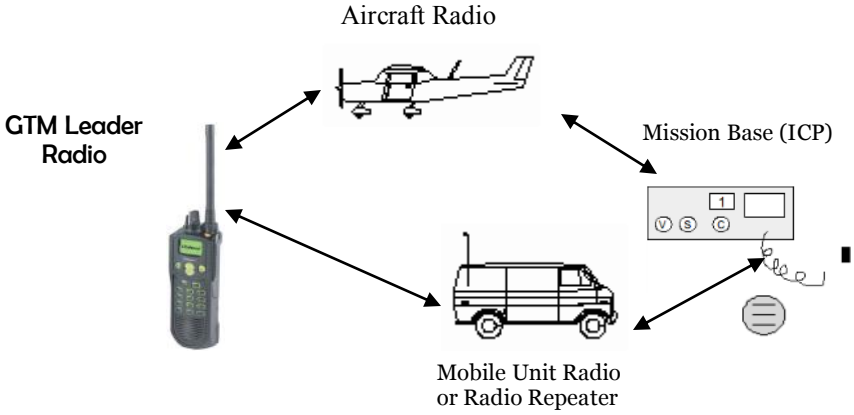
Ground Team Section



Utilizing all possibilities to establish communications is the Ground Teams Goal. Consider all possible ways to maintain communications link with mission base.
Typical arrangement:

- All Team members use ISR to talk among the team
- Hand Held VHF to Aircraft to Mission Base
- Hand Held VHF to Mobile to Mission Base
- Hand Held VHF to Repeater to Mission Base
- Hand Held VHF to Mobile to Aircraft to Mission Base
- Also consider moving to high unobstructed ground to establish a line of sight comm. link.

Channel To Be Monitored CC1 (Zone 1, Channel 1) Simplex. Unless

A. During All CAP Vehicle Use The CAP Radio Must Be On And Monitored/Used.
B. During all communications, clear and calm transmissions are required for other stations to understand your message.
C. Use of either CAP Vehicle Call Sign or Issued Call Sign is approved for use with CAP Vehicle radios. (Non Mission Use)
D. During missions all call signs and channels are assigned by the communications officer (CUL) or the IC for that mission.
E. Minimum of ICUT training is required to use CAP radios without supervision.
F. All radios must be checked on a regular basis for proper operation.
G. Hand-Held radio batteries must be kept charged at all times.
H. ISR Radios are designed for limited range (distance). Trees, brush and inside buildings will cause additional range loss.
I. ISR Radios must have fresh batteries. When ISRs are not in use for a long time, remove batteries prior to storing.
J. Wing CAP vans use the call sign format of : (Wing Call Sign) XXX,

A. Standard simplex channels or repeater channels are to be used during normal flight operations. Consult VHF Frequency Designator Table for the appropriate channel(s).

B. Aircrews are to monitor CAPGUARD (GD1) at all times unless told otherwise. When using CAPGUARD the Calling Station must state they are on GUARD (GD1) Channel.
Example: CAP 1726, this is Mission Base on GUARD, OVER.

C. During any and all missions and exercises Aircrews responsibilities are:

1. **A radio check is required prior to taxi. A complete radio check is when a response is received from the other station (Mission Base).**
2. **Standard check-ins are also required. Items to include in the comm. Check-in are as follows.**
   - **A. Take Off with Time**
   - **B. In Grid Time**
   - **C. Out of Grid Time**
   - **D. Landing Time**
   - **E. Standard check-ins are every 30 Min. (required) Standard Operating Procedure is for the Mission Base to initiate contact with the aircraft.**

D. Aircrews, during normal operating procedures, are to monitor and have the CAP aircraft radio ON, and volume set to be audible.

E. Aircrews must have a minimum ICUT training in order to operate the CAP Aircraft Radio.

F. CAP Aircraft radio should be on ("HI") 10 watt power setting during all flights and on ("LO") 5 watt power setting when on the ground. This is to make sure no excess energy is pushed back into the radio causing possible damage to radio during ground operations.

G. CAP Aircraft radio is a required piece of equipment and must be checked and working properly for all missions. This is the aircrew's responsibility during preflight and post flight. Report all issues through normal aircraft maintenance process.
Catching an inoperative radio will prevent communications issues during actual or practice SAR missions.

H. **FAA frequency of 123.1 is used for Liaison or Interoperability with other agencies during SAR Missions.**

I. **TDFM136 radios have some P25 digital channels. NAT NPX-138 radios are not P25 digital capable.**

J. EF Johnson 5112 and 5317 radios have duel mode capability, meaning they can hear P25 even if the selected channel is an analog channel. The TDFM aircraft radio is not duel mode capable, meaning Cannot hear P25 when on an analog channel, or analog when on a P25 channel.

CAP Radio Procedures

CAP procedures require normal, plain English. No 10 codes or Q codes are to be used. Under ICS/FEMA structure, all information is to be passed in plain English, with no special use language.

Radio Communication Format
Calling another station: Their call sign, THIS IS, your call sign. Example: White Tail 45, THIS IS White Tail 4, OVER
Calling using National interoperability channels: Agency Unit# THIS IS Agency Unit# Example: Bryan EMS 1605 THIS IS Abernaki 23. After initial contact just use the call signs.

Pro words (Common Terms)
Roger = Instructions Received
Over = I am finished talking
Out = Communication is complete, frequency is free and open for next station use.
This is = Before call sign
Wait = I must pause for a few seconds, do not transmit
Say Again = Repeat your transmission (message)
Affirmative = "YES"
Negative = "NO"

Method of Speech
Rhythm—Use short sentences, divided up in usable lengths.
Speed—Speak slower when delivering messages / traffic.
Volume—Normal levels (No Shouting)
Pitch—Slightly higher than normal conversations

Aids to Accuracy
Pronunciation of Letters
Rules of Figures (Numbers)
Rules of Mixed Groups
Corrections

Over The Air "Don'ts"
Identify Operator by Name
Radio Frequencies (numbers)
Profane or Inappropriate Language
Transmission of Nicknames or False Call Signs
Do Not Argue or Identify Search Subjects

How to put radio in ALE mode:

1. Turn on radio by turning on/off volume control knob clockwise
2. When SELF TEST is complete, push MENU button (blue, on right side of panel)
3. Select ALE (F3)
4. Select 1 on alphanumeric pad
5. Push ENTER -- blue arrow, bottom right on all Micom 3s, including RDPs, black on 2Es, see Comm curriculum module T4a.)
6. Radio is now in ALE mode

How to do a bidirectional sound:

If your ALE radio has not been monitoring for soundings, you may need to perform a Bi-Directional Sound (BIDR) so your radio knows which channel to use to link to 000NERCAP.

1. Select F2 (LQA on screen)
2. Select F1 (BIDR on screen)
3. Use up/down arrows to left of screen to scroll through stored ALE identifiers
4. When 000NERCAP shows on screen, select F1 (SEND on screen)

Radio will go through net 1 channel list. This will take three to five minutes. Each channel number will be displayed on the screen as the radio checks it. When the display returns to “NET 1”, the BIDR is complete. The call may now be made using the best channel.

Radio Quick Reference (Helpful Hints)

Reference Material—CAPR 100-1 and 100-3
Reference Material—CAPR 60-3

- **Use minimum transmission power to satisfactorily complete communication**
- **VHF is line of sight transmissions.**
- **HF transmissions are used for long distance communications.**

PHONETIC ALPHABET		
ALPHA	JULIET	SIERRA
BRAVO	KILO	TANGO
CHARLIE	LIMA	UNIFORM
DELTA	MIKE	VICTOR
ECHO	NOVEMBER	WHISKEY
FOXTROT	OSCAR	XRAY
GOLF	PAPA	YANKEE
HOTEL	QUEBEC	ZULU
INDIA	ROMEO	

PHONETIC NUMBERS	
1—ONE	6—SIX
2—TWO	7—SEVEN
3—THU-REE	8—EIGHT
4—FOUR	9—NINER
5—FIFA (FIVE)	10—TEN

URGENCY SIGNALS	
MAYDAY	PAN PAN
SECURITE (Used for urgent warnings or navigational concerns)	

Flash (Z) (Rarely Used)	**Immediate (O)** (Rarely Used)	**Priority (P)** (Common Use)	**Routine (R)** (Common Use)
Messages for extreme urgency	Messages that affect the security of the nation	Messages requiring action. Above routine (R) messages	Messages requiring normal action times

- **Use Simplex frequencies for local operations and use repeaters if extended range is needed.**
- **Operations of CAP frequencies in Canada and Mexico is Prohibited.**
- **Altitude restrictions are in effect for international boarder areas.**
- **Use CAPF 110 Form for logging, CAPF 105 for formal messages**
- **For additional Communications information and Regulatory References, see CAPR 100-1 and 100-3**
- **All communication is to be done in plain English. This follows**

Aircrew Section, Cont.

NER CAP Wing Aircraft Call-Signs Table 1			
Tail #	**Wing**	**CAP Call Sign**	**Remarks/Notes**
N940CP	**NER**	**CAP9194**	
N112CP	**NER**	**CAP9112**	
N136CP	**NER**	**CAP9136**	
N286CP	**NER**	**CAP9128**	
N336CP	**NER**	**CAP9133**	
N273CP	**CT**	**CAP606**	
N482CA	**CT**	**CAP604**	
N771CP	**CT**	**CAP609**	
N931CP	**CT**	**CAP608**	
N9344L	**CT**	**CAP605**	
N970CP	**CT**	**CAP607**	
N373CP	**MA**	**CAP1931**	
N96227	**MA**	**CAP1929**	
N9633X	**MA**	**CAP1928**	
N980CP	**MA**	**CAP1924**	
N9869C	**MA**	**CAP2898**	
N50MB	**ME**	**CAP1750**	
N585CP	**ME**	**CAP1785**	

NER CAP Wing Aircraft Call-Signs Table 2			
Tail #	**Type**	**CAP Call Sign**	**Remarks/Notes**
N681CP	**ME**	**CAP1781**	
N740CP	**ME**	**CAP1740**	**TECH/ WIRED FOR AIR-BOURNE REPEATER**
N983CP	**ME**	**CAP1783**	**TECH**
N169CP	**NH**	**CAP2869**	
N175CP	**NH**	**CAP2875**	
N360CP	**NH**	**CAP2860**	
N827CP	**NH**	**CAP2827**	
N99826	**NH**	**CAP2826**	
N17NJ	**NJ**	**CAP2917**	
N19NJ	**NJ**	**CAP2919**	
N236NY	**NJ**	**CAP2936**	
N23NJ	**NJ**	**CAP2923**	
N5204E	**NJ**	**CAP1704**	
N53293	**NJ**	**CAP834**	
N5367X	**NJ**	**CAP940**	
N5461X	**NY**	**CAP3122**	

NER CAP Wing Aircraft Call-Signs Table 2			
Tail #	**Type**	**CAP Call Sign**	**Remarks/Notes**
N63312	**NJ**	**CAP2912**	
N644CP	**NJ**	**CAP3725**	
N656CP	**NJ**	**CAP3733**	
N701DE	**NJ**	**CAP701**	
N732NS	**NJ**	**CAP829**	
N941CP	**NJ**	**CAP2941**	
N9440X	**NJ**	**CAP3716**	
N9522L	**NJ**	**CAP1822**	
N9694L	**NJ**	**CAP5034**	
N9704E	**NJ**	**CAP4404**	
N9845L	**NJ**	**CAP1845**	
N99162	**NJ**	**CAP3204**	
N99467	**NJ**	**CAP3730**	
N149CP	**NY**	**CAP3121**	
N222NY	**NY**	**CAP3123**	
N235NY	**NY**	**CAP3135**	

NER CAP Wing Aircraft Call-Signs Table 2			
Tail #	**Type**	**CAP Call Sign**	**Remarks/Notes**
N291CP	**NY**	**CAP3131**	
N6420T	**NY**	**CAP3125**	
N7474	**NY**	**CAP3128**	
N782CP	**NY**	**CAP3127**	
N927CP	**NY**	**CAP3139**	
N94800	**NY**	**CAP3721**	
N9540L	**NY**	**CAP140**	
N9687E	**NY**	**CAP3126**	
N978CP	**NY**	**CAP602**	
N9816E	**NY**	**CAP3130**	
N98352	**NY**	**CAP3134**	
N98426	**NY**	**CAP3626**	
N99517	**NY**	**CAP926**	
N206CP	**PA**	**CAP3715**	
N355CP	**PA**	**CAP3711**	
N658CP	**PA**	**CAP3712**	

NER CAP Wing Aircraft Call-Signs Table 2			
Tail #	**Type**	**CAP Call Sign**	**Remarks/Notes**
N848CP	**PA**	**CAP3731**	
N97313	**PA**	**CAP3720**	
N981CP	**PA**	**CAP3737**	
N9824L	**PA**	**CAP3714**	
N99196	**PA**	**CAP3727**	
N99338	**PA**	**CAP3728**	
N644CP	**PA**	**CAP3725**	
N656CP	**PA**	**CAP3733**	
N9440X	**PA**	**CAP3716**	
N99467	**PA**	**CAP3730**	
N4815C	**RI**	**CAP3815**	
N767CA	**RI**	**CAP3867**	

NER CAP Wing Aircraft Call-Signs Table 2			
Tail #	**Type**	**CAP Call Sign**	**Remarks/Notes**
N710CP	**VT**	**CAP4410**	
N720CP	**VT**	**CAP4420**	
N759MY	**VT**	**CAP3959**	
N9847L	**VT**	**CAP4447**	

VHF Frequency Designator Table 1							
Designator	Remarks / Use	EFJ Z/CH	TDFM 136	NAT		PDR 3500	OTHER
CC 1	Command Control 1	1-1	001	01			
CC 2	Command Control 2	1-2	002	02			
AIR 1	Air to Air	1-3	003	03			
AIR 2	Air to Air	1-4	004	04			
CAPGUARD	Guard Channel	1-5	GD1	05			
TAC 1	Tactical Use (Misc Use)	1-6	005	06			
CH1 MON		1-7					
CH2 MON		1-8					
R67	TACTICAL REPEATER	1-9	006	07		3/9	
R68	TACTICAL REPEATER	1-10	007	08		4/10	
R69	TACTICAL REPEATER	1-11	008	09		5/11	
R70	TACTICAL REPEATER	1-12	009	10		6/12	
R63	TACTICAL REPEATER	1-13	010	11		1/7	
R64	TACTICAL REPEATER	1-14	011	12		2/8	
R108		1-15	012				
R109		1-16	013				

CC1, CC2, AIR1, AIR2, CAPGUARD AND TAC1 ARE SIMPLEX.
REPEATERS HAVE DESIGNATORS BEGINNING WITH "R".

R67, R68, R69, R70, R63 AND R64 ARE USED IN THE PDR-3500 "TACTICAL" REPEATERS. CHANNELS 1-6 ARE LOW POWER FOR AIRBORNE USE, CHANNELS 7-12 ARE HIGH POWER FOR GROUND USE.

SWITCH POSITION GD1 ON THE TDFM IS PROGRAMMED FOR CAPGUARD CHANNEL. SWITCH POSITION GD1 OR GD2 SHOULD NOT BE USED ON THE NAT RADIO CAPGUARD SHOULD BE ANALOG ONLY

VHF Frequency Designator Table 2							
Designator	**Remarks / Use**	**EFJ Z/CH**	**TDFM 136**	**NAT**			**OTHER**
		2-1					
		2-2					
		2-3					
		2-4					
		2-5					
		2-6					
		2-7					
		2-8					
		2-9					
		2-10					
		2-11					
		2-12					
		2-13					
		2-14					
		2-15					
		2-16					

SOME OF THE REPEATER LOCATIONS MAY NOT BE ON THE AIR

USE THE "OTHER" COLUMN FOR PERSONAL OR NON-STANDARD EQUIPMENT THAT IS COMPLIANT

VHF Frequency Designator Table 3							
Designator	**Remarks / Use**	**EFJ Z/CH**	**TDFM**	**NAT**	**TAIT**		**OTHER**
		3-1					
		3-2					
		3-3					
		3-4					
		3-5					
		3-6					
		3-7					
		3-8					
		3-9					
		3-10					
		3-11					
		3-12					
		3-13					
		3-14					
		3-15					
		3-16					

SOME OF THE REPEATER LOCATIONS MAY NOT BE ON THE AIR

WRITE IN LOCAL CHANNEL INFORMATION

VHF Frequency Designator Table 4 Local Wing Assignments							
Designator	**Remarks / Use**	**EFJ Z/CH**	**TDFM 136**	**NAT**	**TAIT**		**OTHER**
		4-1					
		4-2					
		4-3					
		4-4					
		4-5					
		4-6					
		4-7					
		4-8					
		4-9					
		4-10					
		4-11					
		4-12					
		4-13					
		4-14					
		4-15					
		4-16					

TABLE 4 CHANNELS HAVE LOCAL CHANNEL ASSIGNMENTS. IF INTEROPERABLITY OR LIASON CHANNELS ARE USED THESE CHANNELS ARE TO BE USED ONLY WHEN DIRECTED, AT THE INVATATION OF STATE OR LOCAL AUTHORITY. THESE CHANNELS ARE TO BE USED ONLY FOR LIASON POURPOSES.

WRITE IN LOCAL CHANNEL INFORMATION

VHF Frequency Designator Table 5							
Designator	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
WX1	WEATHER 1	5-1					
WX2	WEATHER 2	5-2					
WX3	WEATHER 3	5-3					
WX4	WEATHER 4	5-4					
WX5	WEATHER 5	5-5					
WX6	WEATHER 6	5-6					
WX7	WEATHER 7	5-7					
		5-8					
		5-9					
		5-10					
		5-11					
		5-12					
		5-13					
		5-14					
		5-15					
		5-16					

TABLE 5 CHANNELS HAS INTEROPERABLITY OR LIASON CHANNELS. THESE CHANNELS ARE TO BE USED ONLY WHEN DIRECTED, AT THE INVENTATION OF STATE OR LOCAL AUTHRITY. THESE CHANNELS ARE TO BE USED ONLY FOR LIASON POURPOSES.

LOCAL WING CHANNEL ASSIGNMENTS

VHF Frequency Designator Table 6							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM	NAT			OTHER
R101	PA Franklin NH Littleton	6-1	066				
R102	PA Bradford	6-2	067				
R103	NY Niagra	6-3	068				
R104	NY Syracuse	6-4	069				
R105	PA Erie	6-5	070				
R106	NY Rochester	6-6	071				
R107	VT Mt Mansfield	6-7	072				
R101P		6-8					
R102P		6-9					
R103P		6-10					
R104P		6-11					
R105P		6-12					
R106P		6-13					
R107P		6-14					
R110	Airborne Repeater Border Zone	6-15	006				
R111	Airborne Repeater Border Zone	6-16	007				
TABLE 6 IS NORTHERN BOARDER ZONE NON STANDARD REPATERS PERSONEL OPPERATING IN THE AREA OF THE CANADIAN BOARDER SHOULD RECEIVE SPECIFIC INSTRUCTION ON REPEATER USE, SIM-PLEX USE AND ALTITUDE RESTRICTIONS BEFORE OPPERATIONS BEGIN.							

VHF Frequency Designator Table 7							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
CG 06	wideband	7-1	090	28			
CG 16	wideband	7-2	091	29			
CG 21A	wideband	7-3	092	20			
CG 22A	wideband	7-4	093	31			
CG 23A	wideband	7-5	094	32			
CG 81A	wideband	7-6	095	33			
CG 82A	wideband	7-7	096	34			
CG 83A	wideband	7-8	097	35			
VCALL10	VCALL 10	7-9					
VCALL11		7-10					
VCALL12		7-11					
VCA;;13		7-12					
VCALL14		7-13					
		7-14					
		7-15					
		7-16					

"CG" CHANNELS ARE COAST GUARD CHANNELS TO BE USED FOR LIASON OR INTEROPERABLITY USE ONLY.

WX1—WX7 ARE NATIONAL WEATHER SERVICE(NOAA) ALL HAZARDS RECEIVE ONLY CHANNELS.

VHF Frequency Designator Table 8							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
R 01		8-1	101	36			
R 02	NY Utica PA St Thomas	8-2	102	37			
R 03		8-3	103	38			
R 04		8-4	104	39			
R 05		8-5	105	40			
R 06	NH Keene	8-6	106	41			
R 07		8-7	107	42			
R 08		8-8	108	43			
R 09		8-9	109	44			
R 10		8-10	110	45			
R 11	ME CMR CT N Central CT	8-11	111	46			
R 12	NJ Lakehurst PA Cherry Springs	8-12	112	47			
R 13		8-13	113	48			
R 14		8-14	114	49			
R 15		8-15	115				
R 16		8-16	116	51			
THIS TABLE IS FIXED ANALOG REPEATERS. SOME REPEATERS MAY NOT BE ON THE AIR. TO CHECK REPEATER STATUS, LOG INTO NTC WEB SITE AT https://ntc.cap.af.mil/login.cfm THEN GO TO NATIONAL REPEATER DIRECTOY AT https://ntc.cap.af.mil/comm/repeaters/repeaters.cfm							

VHF Frequency Designator Table 9

Designator	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
R 17	ME SMR PA Mt Laurel PA Big Rock	9-1	117	52			
R 18	MA Danvers PA Waynesburg PA Williamsport	9-2	118	53			
R 19	NJ Hammonton PA Chaneysville	9-3	119	54			
R 20	CT North West	9-4	120	55			
R 21	CT South West	9-5	121	56			
R 22		9-6	122				
R 23	NY Harriman PA Powels Mills MA Sandwich	9-7	123	58			
R 24		9-8	124	59			
R 25	NH Southern Derry	9-9	125	60			
R 26		9-10	126	61			
R 27		9-11	127	62			
R 28		9-12	128	63			
R 29	PA Marionville	9-13	129	64			
R 30		9-14	130	65			
R 31	MA Central Worcester PA Valley Forge	9-15	131	66			
R 32		9-16	132	67			

CAP REPEATERS, BOTH FIXED AND TACTICAL (AIRBORNE) OPERATE IN DUEL MODE. IF THEY RECEIVE AN ANALOG TRANSMISSION, THEY TRANSMIT THE REPEATEED SIGNAL IN ANALOG. IF THEY RECEIVE P25 DIGITAL, THEY WILL REPEAT P25 DIGITAL.

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VHF Frequency Designator Table 10							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
R 33	RI Entire State	10-1	133	68			
R 34		10-2	134	69			
R 35		10-3	135	70			
R 36		10-4	136	71			
R 37	VT Ascutney	10-5	137	72			
R 38	CT S Central	10-6	138	73			
R 39	NY Ellenville PA Saxonburg	10-7	139	74			
R 40	PA Little Flats	10-8	140	75			
R 41		10-9	141	76			
R 42	NJ Netcong	10-10	142	77			
R 43		10-11	143	78			
R 44	PA Red Rock MA Pembroke	10-12	144	79			
R 45	NH Laconia VT SW Mt Equinox NJ Franklin Lakes PA Blue Knob	10-13	145	80			
R 46	NH Lebanon	10-14	146	81			
R 47		10-15	147	82			
R 48	CT NE Brooklyn PA Pocono Raceway	10-16	148	83			

VHF Frequency Designator Table 11

Designator	Remarks / Use	EFJ Z/CH	TDFM	NAT			OTHER
R 49	CT SE Vinegar Hill PA Elk Mtn	11-1	149	84			
R 50		11-2	150	85			
R 51	CT WESTBROOK PA Clearfield	11-3	151	86			
R 52		11-4	152	87			
R 53		11-5	153	88			
R 54	MA GREYLOCK PA W Pittsburg PA Hawk Mtn	11-6	154	89			
R 55		11-7	155	90			
R 56	NY Binghamton PA Blossburg	11-8	156	91			
R 57		11-9	157	92			
R 58		11-10	158	93			
R 59	MA WALTHAM	11-11	159	94			
R 60	NY Albany PA Truce	11-12	160	95			
R 61		11-13	161	96			
R 62	CT RIVER VALLEY MA Granville	11-14	162	97			
R 63		11-15	163	98			
R 64		11-16	164	99			

THIS TABLE IS FIXED ANALOG REPEATERS. SOME REPEATERS MAY NOT BE ON THE AIR.

VHF Frequency Designator Table 12							
Designa-tor	Remarks / Use	EFJ Z/CH	TDF M	NAT			OTHER
R 01 P		12-1	165				
R 02 P	NY Utica PA St Thomas	12-2	166				
R 03 P		12-3	167				
R 04 P		12-4	168				
R 05 P		12-5	169				
R 06 P	NH Keene	12-6	170				
R 07 P		12-7	171				
R 08 P		12-8	172				
R 09 P		12-9	173				
R 10 P		12-10	174				
R 11 P	ME CMR CT N Central CT	12-11	175				
R 12 P	NJ Lakehurst PA Cherry Springs	12-12	176				
R 13 P		12-13	177				
R 14 P		12-14	178				
R 15 P		12-15	179				
R 16 P		12-16	180				
THIS TABLE IS FIXED DIGIATAL OR P25 REPEATERS TDFM RADIOS WILL HAVE ALL P25 DIGITAL REPEATER CHANNELS WHEN VERSION 3 SOFTWARE IS INSTALLED. NAT RADIOS CANNOT OPERATE ON P25 DIGITAL MODE							

VHF Frequency Designator Table 13							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM 136	NAT			OTHER
R 17 P	ME SMR PA Mt Laurel PA Big Rock	13-1	181				
R 18 P	MA Danvers PA Waynesburg PA Williamsport	13-2	182				
R 19 P	NJ Hammonton PA Chaneysville	13-3	183				
R 20 P	CT North West	13-4	184				
R 21 P	CT South West	13-5	185				
R 22 P		13-6	186				
R 23 P	NY Harriman PA Powels Mills MA Sandwich	13-7	187				
R 24 P		13-8	188				
R 25 P	NH Southern Derry	13-9	189				
R 26 P		13-10	190				
R 27 P		13-11	191				
R 28 P		13-12	192				
R 29 P	PA Marionville	13-13	193				
R 30 P		13-14	194				
R 31 P	MA Central Worcester PA Valley Forge	13-15	195				
R 32 P		13-16	196				
THIS TABLE IS FIXED P25 DIGITAL REPEATERS. SOME REPEATERS MAY NOT BE ON THE AIR. TO CHECK REPEATER STATUS, LOG INTO NTC WEB SITE AT https://ntc.cap.af.mil/login.cfm THEN GO TO NATIONAL REPEATER DIRECTOY AT https://ntc.cap.af.mil/comm/repeaters/repeaters.cfm							

VHF Frequency Designator Table 14							
Designator	Remarks / Use	EFJ Z/CH	TDFM	NAT	TAIT		OTHER
R 33 P	RI Entire State	14-1	197				
R 34 P		14-2	198				
R 35 P		14-3	199				
R 36 P		14-4	200				
R 37 P	VT Ascutney	14-5	201				
R 38 P	CT S Central	14-6	202				
R 39 P	NY Ellenville PA Saxonburg	14-7	203				
R 40 P	PA Little Flats	14-8	204				
R 41 P		14-9	205				
R 42 P	NJ Netcong	14-10	206				
R 43 P		14-11	207				
R 44 P	PA Red Rock MA Pembroke	14-12	208				
R 45 P	NH Laconia VT SW Mt Equinox NJ Franklin Lakes PA Blue Knob	14-13	209				
R 46 P	NH Lebanon	14-14	210				
R 47 P		14-15	211				
R 48 P	CT NE Brooklyn PA Pocono Raceway	14-16	212				
AUDIO QUALITY OF P25 DIGITAL CHANNELS IS GENERALLY BETTER THEN ANALOG CHANNELS. THERE IS LITTLE OR NO BACKGROUND NOISE.							

VHF Frequency Designator Table 15							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM	NAT	TAIT		OTHER
R 49 P	CT SE Vinegar Hill PA Elk Mtn	15-1	213				
R 50 P		15-2	214				
R 51 P	CT WESTBROOK PA Clearfield	15-3	215				
R 52 P		15-4	216				
R 53 P		15-5	217				
R 54 P	MA GREYLOCK PA W Pittsburg PA Hawk Mtn	15-6	218				
R 55 P		15-7	219				
R 56 P	NY Binghamton PA Blossburg	15-8	220				
R 57 P		15-9	221				
R 58 P		15-10	222				
R 59 P	MA WALTHAM	15-11	223				
5 60 P	NY Albany PA Truce	15-12	224				
R 61 P		15-13	225				
R 62 P	CT RIVER VALLEY MA Granville	15-14	226				
R 63 P		15-15	227				
R 64 P		15-16	228				
THIS TABLE IS FIXED P25 DIGITAL REPEATERS. SOME REPEATERS MAY NOT BE ON THE AIR. TO CHECK REPEATER STATUS, LOG INTO NTC WEB SITE AT https://ntc.cap.af.mil/login.cfm THEN GO TO NATIONAL REPEATER DIRECTOY AT https://ntc.cap.af.mil/comm/repeaters/repeaters.cfm							

VHF Frequency Designator Table 16							
Designa-tor	Remarks / Use	EFJ Z/CH	TDFM	NAT	TAIT	PDR 3500	OTHER
CC1P	Command Control 1 Digital	16-1	014				
CC2P	Command Control 2 Digital	16-2	015				
AIR1P	Air To Air 1 Digital	16-3	016				
AIR2P	Air to Air 2 Digital	16-4	017				
CAPGUARD	CAPGUARD	16-5	GD1				
TAC1P	Tactical 1 Digital	16-6	018				
R65P	TACTICAL REPEATER	16-7					
R66P	TACTICAL REPEATER	16-8					
R67P	TACTICAL REPEATER	16-9	019			3/9	
R68P	TACTICAL REPEATER	16-10	020			4/10	
R69P	TACTICAL REPEATER	16-11	021			5/11	
R70P	TACTICAL REPEATER	16-12	022			6/12	
R63P	P25 TACTICAL REPEATER CH 1	16-13	023			1/7	
R64P	P25 TACTICAL REPEATER CH 1	16-14	024			2/8	
R110P	BORDER ZONE AIRBOURNE CH 1	16-15	007				
R111P	BORDER ZONE AIRBOURNE CH2	16-16	008				

EFJ ZONE 16 CHANNELS ARE SAME AS Z1 CHANNELS EXCEPT THEY ARE P25 DIGITAL. THE EFJ RADIOS ARE PROGRAMMED FOR 'DUEL MODE' OPERATION, SO THEY WILL RECEIVE EITHER ANALOG OR DIGITAL, BUT WILL ONLY TRANMIT IN ONE TYPE. ANY DESIGNATOR THAT ENDS IN "P" WILL TRANSMIT P25, DESIGNATORS THAT DO NOT END IN "P" TRANSMIT ANALOG.
TDFM RADIOS WILL NOT RECEIVE IN DUEL MODE, IF THEY ARE ON AN ANALOG CHANEL, THEY WILL RECEIVE ANALOG, IF ON A P25 DIGITAL CHANNEL THEY WILL RECEIVE P25 DIGITAL.
NAT RADIOS DO NOT HAVE P25 DIGITAL CAPABLITY.

VHF Frequency Designator Table 17							
Designator	**Remarks / Use**	**EFJ Z/CH**	**TDFM 136**	**NAT**			**OTHER**
VCALL 10			**080**				
VTAC 11			**081**				
VTAC 12			**082**				
VTAC 13			**084**				
VTAC 14			**085**				
THIS TABLE FOR LOCAL DESIGNATED CHANNEL ASSIGNMMENTS							

NER	REGION NET	HF	2030 EST	2030 EDT	W	NEC	
			0930 EST	0930 EDT	S	NEC	
CONNECTICUT	WING NET	HF	2100 EST	2100 EDT	W	NEC	
		VHF	1900 EST	1900 EDT	M-F	R09/R28	Linked system
MAINE	WING NET	HF	0830 EST	0830 EDT	M - F	NEC	
			1900 EST	1900 EDT	W	NEC	
			0900 EST	0900 EDT	S, SU	NEC	
	CENTRAL NET	VHF	2000 EST	2000 EDT	SU	R11	
	NORTHERN NET		1830 EST	1830 EDT	M	R105	
	SOUTHERN NET		2000 EST	2000 EDT	T	R17	
	COASTAL NET		1930 EST	1930 EDT	W	R102	
	BANGOR NET		1900 EST	1900 EDT	TH	R104	
MASSACHUSETTS	WING NET	HF	2000 EST	2000 EDT	W	NEC	
		VHF	2000 EST	2000 EDT	ALL	VARIES	R18, 23, 31, 44, 54, 59, 62
NEW HAMPSHIRE	WING NET	HF	1900 EST	1900 EDT	M	NEC	
		VHF	1900 EST	1900 EDT	M	MULTIPLE RPTRS	

NEW JERSEY	WING NET	HF	2000 EST	2000 EDT	W	NEE	
NEW YORK	WING NET	HF	1830 EST	1830 EDT	W	NEC	
	LONG ISLAND GP	VHF	1900 EST	1900 EDT	W	R40	
	FINGER LAKES GP		2000 EST	2000 EDT	W	R106	
PENNSYLVANIA	WING NET	HF	1730 EST	1730 EDT	M - S	NEC	
			2030 EST	2030 EDT	M	NEC	
			2030 EST	2030 EDT	TH	NEE	
	GROUP 1	VHF	1900 EST	1900 EDT	M - TH	R42	
	GROUP 2	VHF	1900 EST	1900 EDT	W	R23	
			1900 EST	1900 EDT	T	R23	PA-021
			1230 EST	1230 EDT	2ND/4 TH S	R23	This may no longer exist
			1200 EST	1200 EDT	2ND/4 TH S	R54	
			2000 EST	2000 EDT	M	R60	
	GROUP 3	VHF	2000 EST	2000 EDT	M -F	R31	
	GROUP 4	VHF	1930 EST	1930 EDT	T	R17	
			2015 EST	2015 EDT	TH	R18	
			1930 EST	1930 EDT	TH	R48	
			1900 EST	1900 EDT	TH	R49	
			1930 EST	1930 EDT	M	R49	PA-201
	GROUP 5	VHF	2030 EST	2030 EDT	T	R18	
			2000 EST	2000 EDT	TH	R40	
	GROUP 6	VHF	2130 EST	2130 EDT	M-TH	R101	
RHODE ISLAND	NO NET REPORTED						
VERMONT	WING NET	HF	1930 EST	1930 EDT	TH	NEE	

HF Frequency Designator Table 1				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2B Channel**	**Other**
NRA	**NHQ CHANNEL**	**1**	**1**	
NRB	**NHQ CHANNEL**	**2**	**2**	
NRC	**NHQ CHANNEL**	**3**	**3**	
NRD	**NHQ CHANNEL**	**4**	**4**	
WWV5	**TIME 5 MHZ**	**5**		
		6		
		7		
WWV5	**TIME 5 MHZ**	**8**	**8**	
WWV10	**TIME 10MHZ**	**9**	**9**	
WWV15	**TIME 15 MHZ**	**10**	**10**	
NEA	**NER NET 1**	**11**	**11**	
NEB	**NER NET 1**	**12**	**12**	
NEC	**NER NET 1**	**13**	**13**	
NED	**NER NET 1**	**14**	**14**	
NEE	**NER NET 1**	**15**	**15**	
NEF	**NER NET 1**	**16**	**16**	
NEG	**NER NET 1**	**17**	**17**	
NEH	**NER NET 1**	**18**	**18**	
WWV5	**TIME 5 MHZ**	**19**		
MEA	**MER NET 2**	**20**	**20**	

NRA, NRB, NRC AND NRD ARE CONVENTIONAL (NOT ALE) CHANNELS

MICOM 3 INCLUDES ALL 200 CHANNEL RADIOS: 2E, 3F, 3TS (MOBILE) AND RAPID DEPLOYMENT KIT (RDP)

HF Frequency Designator Table 2				
Designator	Remarks / Use	Micom 3 Channel	Micom 2 Channel	Other
MEB	MER NET 2	21	21	
MEC	MER NET 2	22	22	
MED	MER NET 2	23	23	
MEE	MER NET 2	24	24	
MEF	MER NET 2	25	25	
MEG	MER NET 2	26	26	
MEH	MER NET 2	27	27	
MEI	MER NET 2	28	28	
WWV5	TIME 5 MHZ	29		
GLA	GLR NET 3	30	30	
GLB	GLR NET 3	31	31	
GLC	GLR NET 3	32	32	
GLD	GLR NET 3	33	33	
GLE	GLR NET 3	34	34	
GLF	GLR NET 3	35	35	
GLG	GLR NET 3	36	36	
GLH	GLR NET 3	37	37	
GLI	GLR NET 3	38	38	
WWV5	TIME 5 MHZ	39		
SEA	SER NET 4	40	40	

MICOM 2B RADIO HAS 100 CHANNELS AND HAS A DIFFERENT PROGRAM IN EACH REGION

HF Frequency Designator Table 3				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
SEB	**SER NET 4**	**41**	**41**	
SEC	**SER NET 4**	**42**	**42**	
SED	**SER NET 4**	**43**	**43**	
SEE	**SER NET 4**	**44**	**44**	
SEF	**SER NET 4**	**45**	**45**	
SEG	**SER NET 4**	**46**	**46**	
SEH	**SER NET 4**	**47**	**47**	
SEI	**SER NET 4**	**48**	**48**	
SEJ	**SER NET 4**	**49**	**49**	
WWV5	**TIME 5 MHZ**	**50**		
NCA	**NCR NET 5**	**51**	**51**	
NCB	**NCR NET 5**	**52**	**52**	
NCC	**NCR NET 5**	**53**	**53**	
NCD	**NCR NET 5**	**54**	**54**	
NCE	**NCR NET 5**	**55**	**55**	
NCF	**NCR NET 5**	**56**	**56**	
NCG	**NCR NET 5**	**57**	**57**	
NCH	**NCR NET 5**	**58**	**58**	
NCI	**NCR NET 5**	**59**	**59**	
WWV5	**TIME 5 MHZ**	**60**		

ALL 200 CHANNELS RADIOS (MICOM 3, MICOM 2E) HAVE NATIONAL STANDARD PROGRAMMING FOR CHANNELS 1 THRU 169.

HF Frequency Designator Table 4				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
SWA	**SWR NET 6**	**61**	**61**	
SWB	**SWR NET 6**	**62**	**62**	
SWC	**SWR NET 6**	**63**	**63**	
SWD	**SWR NET 6**	**64**	**64**	
SWE	**SWR NET 6**	**65**	**65**	
SWF	**SWR NET 6**	**66**	**66**	
SWG	**SWR NET 6**	**67**	**67**	
SWH	**SWR NET 6**	**68**	**68**	
SWI	**SWR NET 6**	**69**	**69**	
SWJ	**SWR NET 6**	**70**	**70**	
WWV5	**TIME 5 MHZ**	**71**		
RMA	**RMR NET 7**	**72**	**72**	
RMB	**RMR NET 7**	**73**	**73**	
RMC	**RMR NET 7**	**74**	**74**	
RMD	**RMR NET 7**	**75**	**75**	
RME	**RMR NET 7**	**76**	**76**	
RMF	**RMR NET 7**	**77**	**77**	
RMG	**RMR NET 7**	**78**	**78**	
RMH	**RMR NET 7**	**79**	**79**	
RMI	**RMR NET 7**	**80**	**80**	
RMJ	**RMR NET 7**	**81**	**81**	

HF Frequency Designator Table 5				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
WWV5	**TIME 5 MHZ**	**82**		
PCA	**PCR NET 8**	**83**	**83**	
PCB	**PCR NET 8**	**84**	**84**	
PCC	**PCR NET 8**	**85**	**85**	
PCD	**PCR NET 8**	**86**	**86**	
PCE	**PCR NET 8**	**87**	**87**	
PCF	**PCR NET 8**	**88**	**88**	
PCG	**PCR NET 8**	**89**	**89**	
PCH	**PCR NET 8**	**90**	**90**	
PCI	**PCR NET 8**	**91**	**91**	
PCJ	**PCR NET 8**	**92**	**92**	
WWV5	**TIME 5 MHZ**	**93**		
NNA	**NTNNET 9**	**94**	**94**	
NNB	**NTN NET 9**	**95**	**95**	
NNC	**NTN NET 9**	**96**	**96**	
NND	**NTN NET 9**	**97**	**97**	
NNE	**NTN NET 9**	**98**	**98**	
NNF	**NTN NET 9**	**99**	**99**	
NNG	**NTN NET 9**	**100**	**100**	

USE DESIGNATORS WHEN DIRECTING ANOTHER STATION OR A NET TO CHANGE CHANNELS.

HF Frequency Designator Table 6				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
NNH	**NTN NET 9**	**101**		
NNI	**NTN NET 9**	**102**		
NNJ	**NTN NET 9**	**103**		
NNK	**NTN NET 9**	**104**		
NNL	**NTN NET 9**	**105**		
WWV5	**TIME 5 MHZ**	**106**		
WWV5	**TIME 5 MHZ**	**107**		
WWV5	**TIME 5 MHZ**	**108**		
WWV5	**TIME 5 MHZ**	**109**		
WWV5	**TIME 5 MHZ**	**110**		
A	**NHQ NET 10**	**111**		
B	**NHQ NET 10**	**112**		
C	**NHQ NET 10**	**113**		
D	**NHQ NET 10**	**114**		
E	**NHQ NET 10**	**115**		
F	**NHQ NET 10**	**116**		
G	**NHQ NET 10**	**117**		
H	**NHQ NET 10**	**118**		
WWV5	**TIME 5 MHZ**	**119**		
WWV5	**TIME 5 MHZ**	**120**		

MICOM 2B RADIOS FROM OUTSIDE NORTEAST REGION MAY BE PROGRAMMED WITH A DIFFERENT CHANNEL PLAN, THEREFORE

HF Frequency Designator Table 7				
Designator	**Remarks / Use**	**Micom 3 Chan-nel**	**Micom 2 Chan-nel**	**Other**
WWV5	**TIME 5 MHZ**	**121**		
WWV5	**TIME 5 MHZ**	**122**		
WWV5	**TIME 5 MHZ**	**123**		
WWV5	**TIME 5 MHZ**	**124**		
WWV5	**TIME 5 MHZ**	**125**		
WWV5	**TIME 5 MHZ**	**126**		
WWV5	**TIME 5 MHZ**	**127**		
WWV5	**TIME 5 MHZ**	**128**		
WWV5	**TIME 5 MHZ**	**129**		
WWV5	**TIME 5 MHZ**	**130**		
WWV5	**TIME 5 MHZ**	**131**		
WWV5	**TIME 5 MHZ**	**132**		
WWV5	**TIME 5 MHZ**	**133**		
WWV5	**TIME 5 MHZ**	**134**		
WWV5	**TIME 5 MHZ**	**135**		
WWV5	**TIME 5 MHZ**	**136**		
WWV5	**TIME 5 MHZ**	**137**		
WWV5	**TIME 5 MHZ**	**138**		
WWV5	**TIME 5 MHZ**	**139**		
WWV5	**TIME 5 MHZ**	**140**		

NHQ NET 9 MAY BE USED BY REGION STATIONS WITH PERMISSION THRU COMPERMISSIONS.

HF Frequency Designator Table 8				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
WWV5	**TIME 5 MHZ**	**141**		
WWV5	**TIME 5 MHZ**	**142**		
WWV5	**TIME 5 MHZ**	**143**		
WWV5	**TIME 5 MHZ**	**144**		
WWV5	**TIME 5 MHZ**	**145**		
WWV5	**TIME 5 MHZ**	**146**		
WWV5	**TIME 5 MHZ**	**147**		
WWV5	**TIME 5 MHZ**	**148**		
WWV5	**TIME 5 MHZ**	**149**		
WWV5	**TIME 5 MHZ**	**150**		
WWV5	**TIME 5 MHZ**	**151**		
WWV5	**TIME 5 MHZ**	**152**		
WWV10	**TIME 10 MHZ**	**153**		
WWV15	**TIME 15 MHZ**	**154**		
WWV20	**TIME 20 MHZ**	**155**		
WWV5	**TIME 5 MHZ**	**156**		
WWV5	**TIME 5 MHZ**	**157**		
WWV5	**TIME 5 MHZ**	**158**		
WWV5	**TIME 5 MHZ**	**159**		
WWV5	**TIME 5 MHZ**	**160**		

FEMA CHANNELS USED AS DIRECTED.

HF Frequency Designator Table 9				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
		161		
		162		
		163		
		164		
		165		
		166		
		167		
		168		
		169		
		170		
		171		
		172		
		173		
		174		
		175		
		176		
		177		
		178		
		179		
		180		

CHANNELS ABOVE 170 MAY BE PROGRAMMED AS DIREDTED

HF Frequency Designator Table 10				
Designator	**Remarks / Use**	**Micom 3 Channel**	**Micom 2 Channel**	**Other**
		181		
		182		
		183		
		184		
		185		
		186		
		187		
		188		
		189		
		190		
		191		
		192		
		193		
		194		
		195		
		196		
		197		
		198		
		199		
		200		

CHANNELS ABOVE 170 MAY BE PROGRAMMED AS DIREDTED BY THE REGION DCS COMM

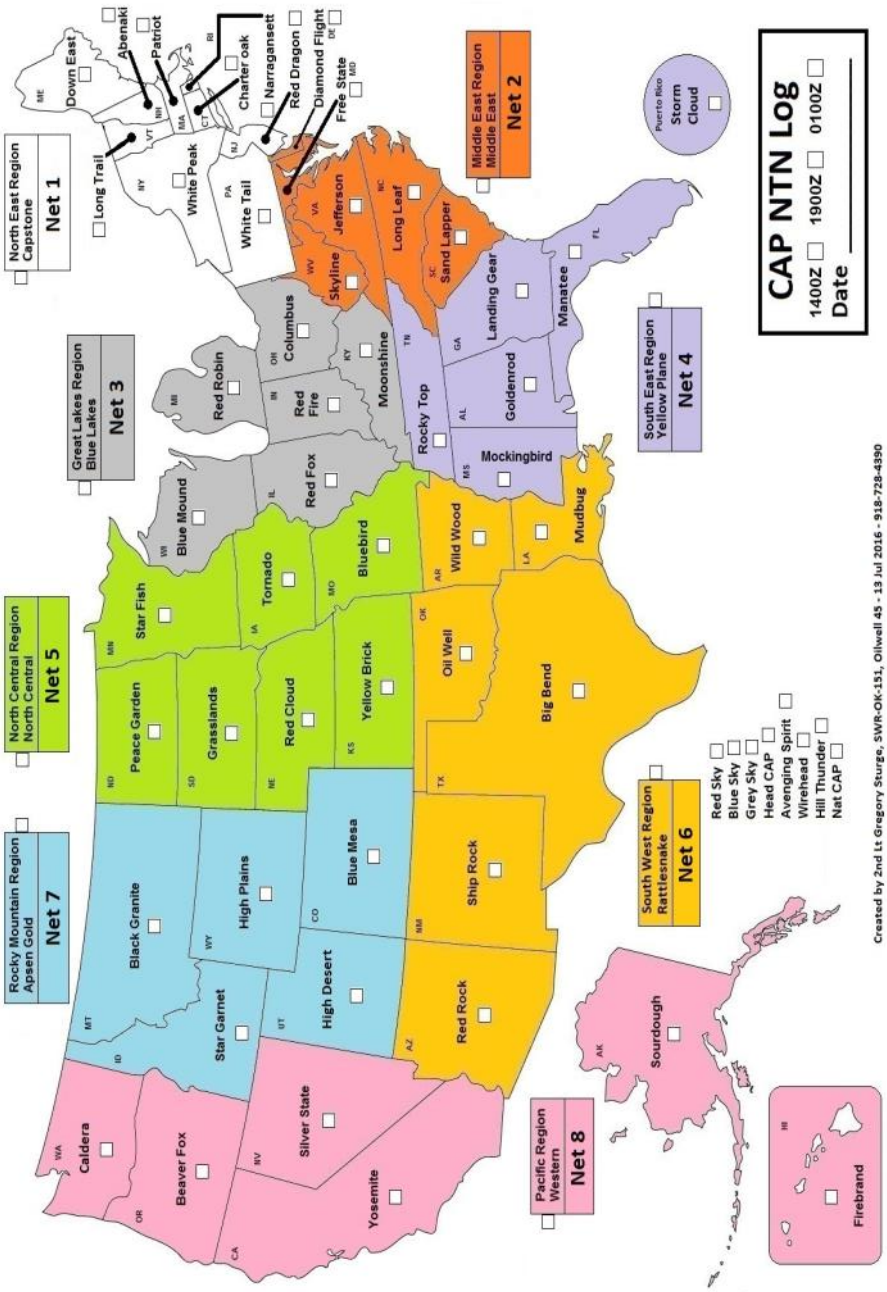
CAP VOICE AND ALE CALLSIGNS 1					
UNIT	VOICE CALLSIGN PREFIX	ALE SUFFIX	AIRCRAFT CALLSIGN RANGE	ALE NET MICOM3/ MICOM2 CHANNELS	HF CHAN-NELS
NATIONAL HEADQUAR-TERS	HEADCAP	xxxNHQCAP	CAP001-099	1-4/1-4 NET 9 120—140/ NA	NRA-NRD NNA-NNU
NORTHEAST REGION HQ	CAP STONE	xxxNERCAP	CAP9101-9199	NET 1 11-18/11-18	NEA-NEH
CONNECTICUT	CHARTER OAK	xxxxCTCAP	CAP601-699		
MAINE	DOWN EAST	xxxxMECAP	CAP1701—1799		
MASSACHU-SETTS	PATRIOT	xxxxMACAP	CAP 1901–1999		
NEW HAMPSHIRE	ABENAKI	xxxxNHCAP	CAP 2801-2899		
NEW JERSEY	RED DRAGON	xxxxNJCAP	CAP 2901—2999		
NEW YORK	WHITE PEAK	xxxxNYCAP	CAP 3101—3199		
PENNSYLVANIA	WHITE TAIL	xxxxPACAP	CAP 3701–3799		
RHODE ISLAND	NARRAGANSETT	xxxxRICAP	CAP 3801–3899		
VERMONT	LONG TRAIL	xxxxVTCAP	CAP 4401-4499		
MIDDLE EAST REGION HQ	MIDDLE EAST	xxxMERCAP	CAP 9201—9299	NET 2 23-31/18-26	MEA-MEI
DELAWARE	DIAMOND FLIGHT	xxxxDECAP	CAP 701—799		
MARYLAND	FREE STATE	xxxxMDCAP	CAP 1801—1899		
NATIONAL CAPITAL	CAPITAL	xxxxDCCAP	CAP 2501—2599		
NORTH CAROLINA	CAP KITTY HAWK	xxxxNCCAP	CAP 3201 -- 3299		
SOUTH CAROLINA	SAND LAPPER	xxxxSCCAP	CAP 3901—3999		
VIRGINIA	JEFFERSON	xxxxVACAP	CAP 4501—4599		
WEST VIRGINIA	SKYLINE	xxxxWVCAP	CAP 4701—4799		

NET # REFERS TO THE ALE NET AS ASSIGNED IN THE RADIO PROGRAM. THE SET OF NUMBERS UNDER THE NET # ARE THE CHANNELS WHERE THE NET IS PROGRAMMED, FIRST IN THE

CAP VOICE AND ALE CALLSIGNS 2					
UNIT	VOICE CALLSIGN PREFIX	ALE SUF-FIX	AIRCRAFT CALLSIGN RANGE	ALE NET MICOM3/ MICOM2 CHANNELS	HF CHAN-NELS
GREAT LAKES REGION HQ	BLUE LAKES	xxxGLRCAP	CAP 9301—9399	NET 3 36-44/27-35	GLA—GLI
ILLINOIS	RED FOX	xxxxILCAP	CAP1101—1199		
INDIANA	RED FIRE	xxxxINCAP	CAP 1201—1299		
KENTUCKY	MOONSHIME	xxxxKYCAP	CAP 1501 – 1599		
MICHIGAN	RED ROBIN	xxxxMICAP	CAP 2001—2099		
OHIO	COLUMBUS	xxxxOHCAP	CAP 3401—3499		
WISCONSIN	BLUE MOUND	xxxxWI-CAP	CAP 4801—4899		
SOUTHEAST REGION HQ	SOUTH EAST CAP	xxxSERCAP	CAP 9401—9499	NET 4 49-58/37-46	SEA-SEI
ALABAMA	GOLDEN ROD	xxxxALCAP	CAP 101—199		
FLORIDA	MANATEE	xxxxFLCAP	CAP 801—899		
GEORGIA	LANDING GEAR	xxxxGACAP	CAP 901—999		
MISSISSIPPI	MOCKINGBIRD	xxxxM-SCAP	CAP 2201—2299		
PUERTO RICO	STORM CLOUD	xxxxPRCAP	CAP 5201—5299		
TENNESSEE	ROCKY TOP	xxxxTNCAP	CAP 4101—4199		
NORTH CENTRAL REGION HQ	NORTH CENTRAL	xxxNCRCAP	CAP 9501—9599	NET 5 63-71/48-56	NCA-NCI
IOWA	TORNADO	xxxxIACAP	CAP 1301—1399		
KANSAS	YELLOW BRICK	xxxxKSCAP	CAP 1401—1499		
MINNESOTA	STAR FISH	xxxxMNCAP	CAP 2101—2199		
MISSOURI	BLUEBIRD	xxxxMOCAP	CAP 2301 2399		
NEBRASKA	RED CLOUD	xxxxNECAP	CAP 2601—2699		
NORTH DAKO-TA	PEACE GARDEN	xxxxNDCAP	CAP 3301 – 3399		
SOUTH DAKO-TA	GRASSLANDS	xxxxSDCAP	CAP 4001—4099		

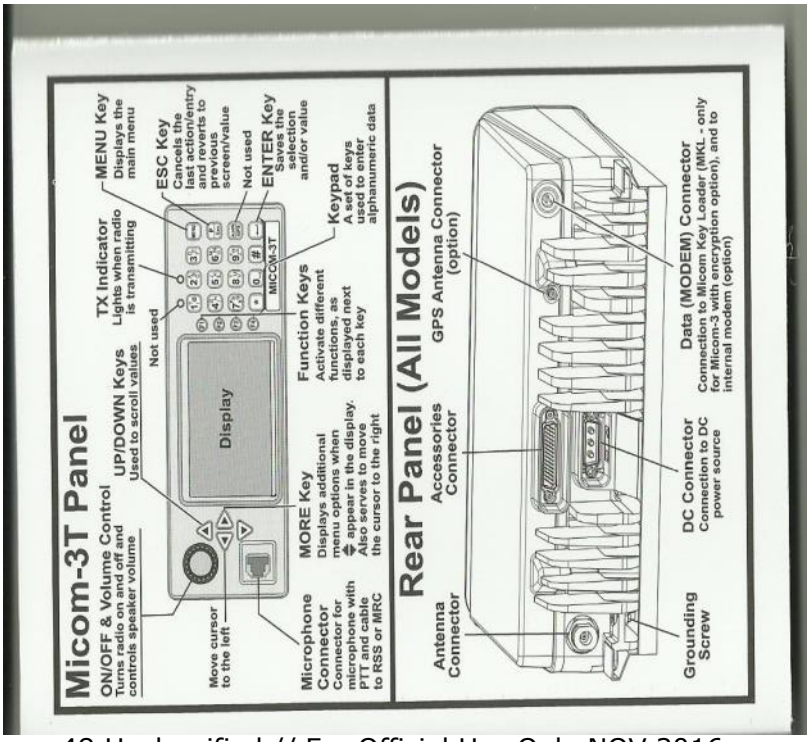
CAP VOICE AND ALE CALLSIGNS 3					
UNIT	VOICE CALLSIGN PREFIX	ALE SUFFIX	AIRCRAFT CALLSIGN RANGE	ALE NET MICOM3/ MICOM2 CHANNELS	HF CHAN-NELS
SOUTHWEST REGION HQ	CAP WEST	xxxSWRCAP	CAP 9601—9699	NET 6 76-85/NA	SWA-SWJ
ARIZONA	RED ROCK	xxxxAZCAP	CAP 201—299		
ARKANSAS	WILD WOOD	xxxxARCAP	CAP 301—399		
LOUISIANA	MUD BUG	xxxxLACAP	CAP 1601—1699		
NEW MEXICO	SHIP ROCK	xxxxNMCAP	CAP 3001—3099		
OKLAHOMA	OIL WELL	xxxxOKCAP	CAP 3501—3599		
TEXAS	BIG BEND	xxxxTXCAP	CAP 4201—4299		
ROCKY MOUNTIAN REGION HQ	ASPEN GOLD	xxxRMRCAP	CAP 9701—9799	NET 7 90-96/NA	RMA-RMJ
COLORADO	BLUE MESA	xxxxCOCAP	CAP 501—599		
IDAHO	STAR GARNET	xxxxIDCAP	CAP 1001—1099		
MONTANA	BLACK GRANITE	xxxxMTCAP	CAP 2401—2499		
UTAH	UNMCLE MIKE	xxxxUTCAP	CAP 4301 4399		
WYOMING	HIGH PLAINS	xxxxWYCAP	CAP 4901—4999		
PACIFIC RE-GION HQ	WESTERN	xxxPCRCAP	CAP 9801—9899	NET 8 105-114/NA	PCA-PCJ
ALASKA	SOURDOUGH	xxxxAKCAP	CAP 5001-5099 CAP 6101-6199		
CALIFORNIA	YOSEMOTE	xxxxCACAP	CAP 401—499 CAP 6001-6099		
HAWAII	FIREBRAND	xxxxHICAP	CAP 5101—5199		
NEVADA	SILVER STATE	xxxxNECAP	CAP 2701—2799		
OREGON	BEAVER FOX	xxxxORCAP	CAP 3601—3699		
WASHINGTON	CALDERA	xxxxWACAP	CAP 4601—4699		

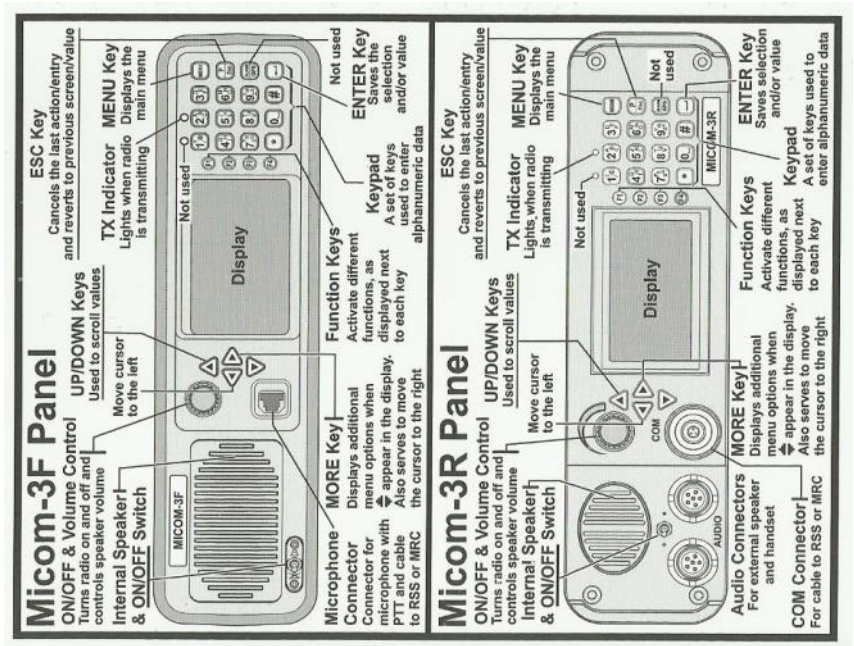
CAP VOICE AND ALE CALLSIGNS 3					
UNIT	VOICE CALLSIGN PREFIX	ALE SUFFIX	AIRCRAFT CALLSIGN RANGE	ALE NET MICOM3/ MICOM2 CHANNELS	HF CHAN-NELS
NATIONAL HEADQUAR-TERS	HEADCAP	xxxNHQCAP	CAP001-099	1-4/1-4 NET 9 120—140/NA	NRA-NRD NNA-NNU
NHQ COM-MANDERS SQUAD	RED SKY				
NAT HQ STAFF	BLUE SKY				
FORMER NA-TIONAL CO-MANDRS	GREY SKY				
NHQ OPERA-TIONS CTR	AVENGING SPRIIT				
NHQ COMM STAFF	WIREHEAD				
CONGRESSIOAL SQUAD	HILL THUNDER				
AF GLOBAL	BILLY BEAR				
NATIONAL TRAFFIC NET	TRIBLADE	000NTNCAP			

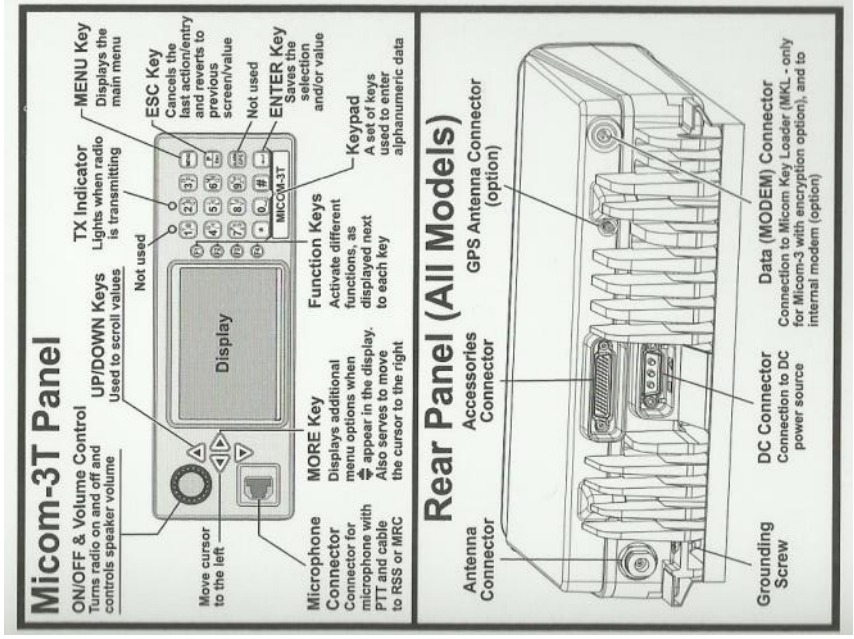

North East Region
Capstone
Net 1
Great Lakes Region
Blue Lakes
Net 3
North Central Region
North Central
Net 5
Rocky Mountain Region
Apsen Gold
Net 7
Middle East Region
Middle East
Net 2
South East Region
Yellow Plane
Net 4
South West Region
Rattlesnake
Net 6
Pacific Region
Western
Net 8
CAP NTN Log
1400Z 1900Z 0100Z
Date
Red Sky
Blue Sky
Grey Sky
Head CAP
Avenging Spirit
Wirehead
Hill Thunder
Nat CAP
Created by 2nd Lt Gregory Sturge, SWR-OK-151, Oilwell 45 - 13 Jul 2016 - 918-728-4390

National Triblade Station Locations

Triblade 10	Washington	Triblade 42	Arkansas
Triblade 11	Utah	Triblade 43	Louisiana
Triblade 12	Oregon	Triblade 44	Missouri
Triblade 14	Idaho	Triblade 50	New Hampshire
Triblade 15	Montana	Triblade 51	Delaware
Triblade 19	Idaho	Triblade 52	Pennsylvania
Triblade 20	Arizona	Triblade 53	Pennsylvania
Triblade 22	California	Triblade 54	Maine
Triblade 29	New Mexico	Triblade 55	Indiana
Triblade 30	North Dakota	Triblade 56	Ohio
Triblade 31	Wisconsin	Triblade 60	Georgia
Triblade 33	Iowa	Triblade 65	Alabama
Triblade 38	Illinois	Triblade 68	Alabama



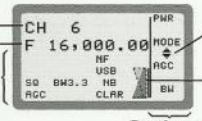

Micom-3F Panel
ON/OFF & Volume Control
Turns radio on and off and controls speaker volume
Internal Speaker & ON/OFF Switch
UP/DOWN Keys
Used to scroll values
Move cursor to the left
MICOM-3F
Display
Not used
TX Indicator
Lights when radio is transmitting
ESC Key
Cancels the last action/entry and reverts to previous screen/value
MENU Key
Displays the main menu
Not used
ENTER Key
Saves the selection and/or value
Microphone Connector
Connector for microphone with PTT and cable to RSS or MRC
MORE Key
Displays additional menu options when appear in the display. Also serves to move the cursor to the right
Function Keys
Activate different functions, as displayed next to each key
Keypad
A set of keys used to enter alphanumeric data


Micom-3R Panel
ON/OFF & Volume Control
Turns radio on and off and controls speaker volume
Internal Speaker & ON/OFF Switch
UP/DOWN Keys
Used to scroll values
Move cursor to the left
COM
AUDIO
Display
Not used
TX Indicator
Lights when radio is transmitting
ESC Key
Cancels the last action/entry and reverts to previous screen/value
MENU Key
Displays the main menu
Not used
MICOM-3R
ENTER Key
Saves selection and/or value
Audio Connectors
For external speaker and handset
COM Connector
For cable to RSS or MRC
MORE Key
Displays additional menu options when appear in the display. Also serves to move the cursor to the right
Function Keys
Activate different functions, as displayed next to each key
Keypad
A set of keys used to enter alphanumeric data

Micom-3T Panel
ON/OFF & Volume Control
Turns radio on and off and controls speaker volume
UP/DOWN Keys
Used to scroll values
Move cursor to the left
Display
Not used
TX Indicator
Lights when radio is transmitting
MICOM-3T
ESC Key
Cancels the last action/entry and reverts to previous screen/value
MENU Key
Displays the main menu
Not used
ENTER Key
Saves the selection and/or value
Microphone Connector
Connector for microphone with PTT and cable to RSS or MRC
MORE Key
Displays additional menu options when appear in the display. Also serves to move the cursor to the right
Function Keys
Activate different functions, as displayed next to each key
Keypad
A set of keys used to enter alphanumeric data

Rear Panel (All Models)
Antenna Connector
Accessories Connector
GPS Antenna Connector (option)
Grounding Screw
DC Connector
Connection to DC power source
Data (MODEM) Connector
Connection to Micom Key Loader (MKL - only for Micom-3 with encryption option), and to internal modem (option)

Display Functions



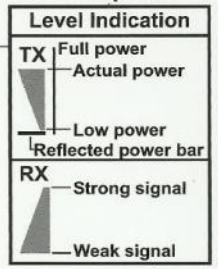
Mode Indicator
Current Frequency
Indicator Area

You can scroll for more options

Options

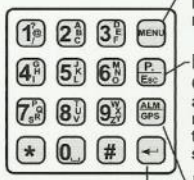
Indicator	Meaning
USB, LSB	Sideband
ISB-U	ISB mode (option), main sideband is USB
ISB-LSQ	ISB mode (option), main sideband is LSB
SQ	Squelch
MON	ALE link monitor
AGC	AGC is OFF or FAST or SLOW
BW	User-selected bandwidth
NB	Noise blanker
CLAR	Clarifier
NF	Notch filter

Level Indication



Using the Keypad

To Enter a ...	Press key ...
Digit	Press once
Letter	Press several times
Blank space	0 twice
Decimal point	*
Wild-card (? or @)	* (ALE only)
Ampersand (@)	# twice



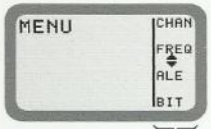
MENU Key Displays the main menu

ESC Key Cancels last action and reverts to the previous screen

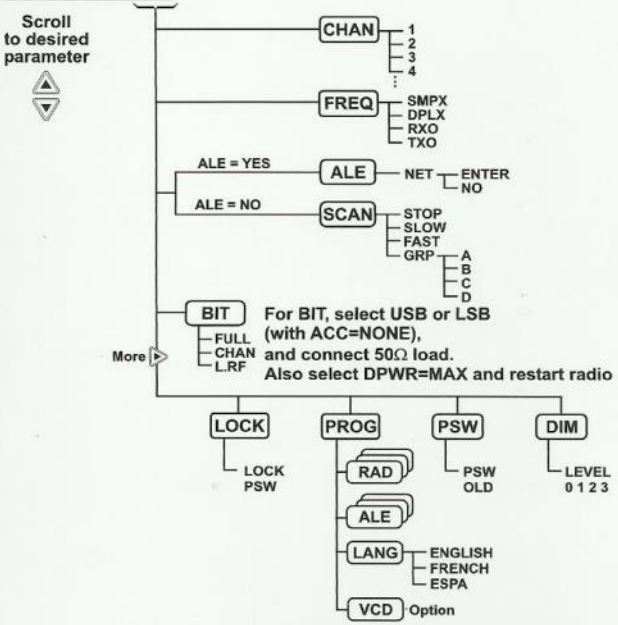
Not used

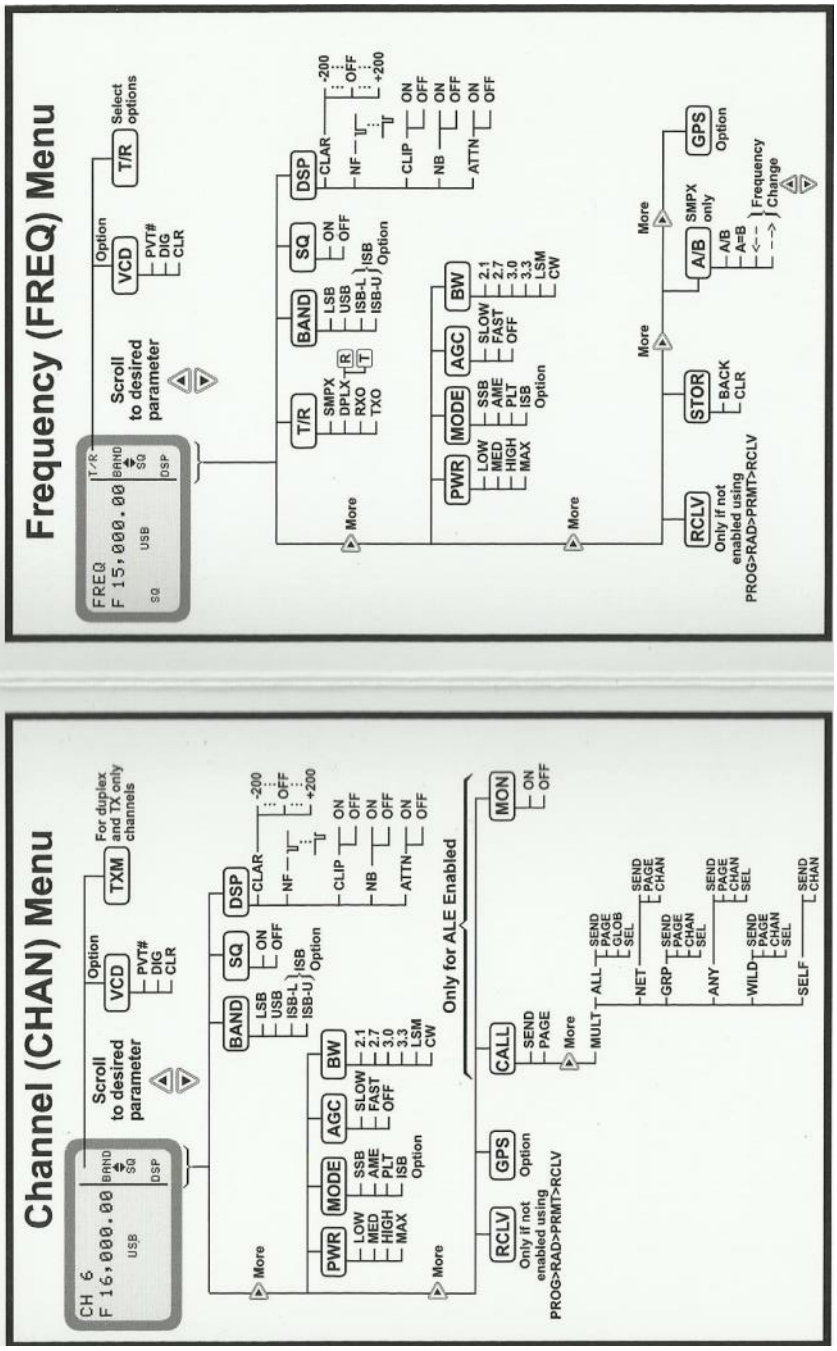
ENTER Key Saves selection and/or value

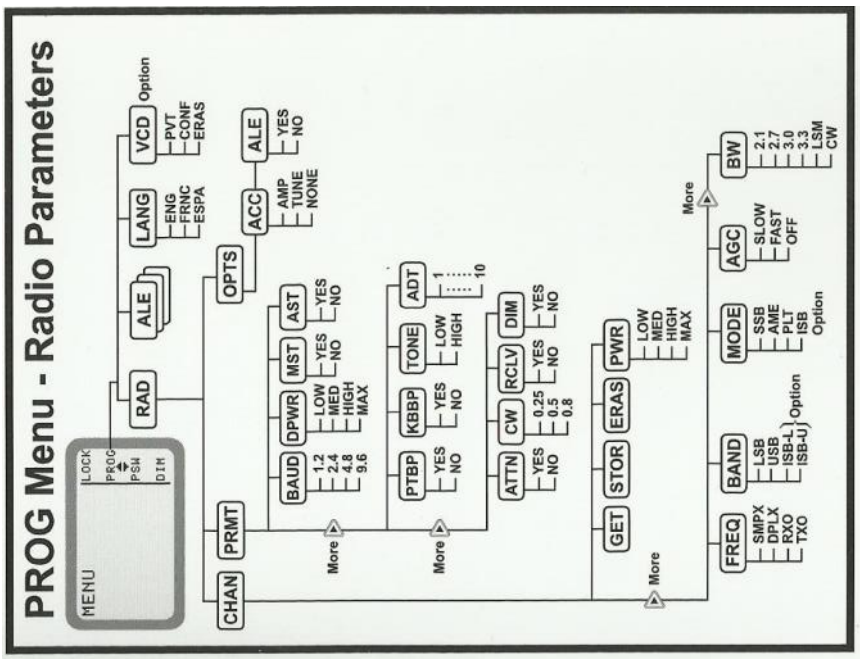
Main Menu

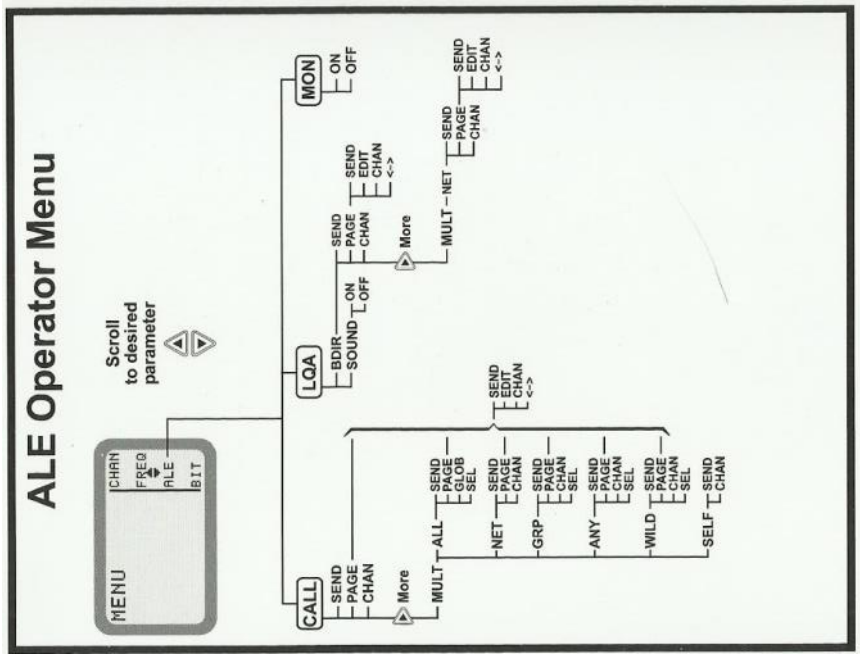


Scroll to desired parameter



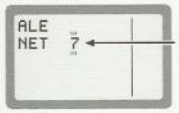

Frequency (FREQ) Menu
FREQ
F 15,000.00
USB
SQ
T/R
BAND
SQ
DSP
Scroll to desired parameter
Option
VCD
PVT#
DIG
CLR
T/R
Select options
More
T/R
SMPX
DPLX
RXO
TXO
R
T
BAND
LSB
USB
ISB-L
ISB-U
ISB Option
SQ
ON
OFF
DSP
CLAR
-200
OFF
+200
NF
CLIP
ON
OFF
NB
ON
OFF
ATTN
ON
OFF
PWR
LOW
MED
HIGH
MAX
MODE
SSB
AME
PLT
ISB
Option
AGC
SLOW
FAST
OFF
BW
2.1
2.7
3.0
3.3
LSM
CW
More
RCLV
Only if not enabled using PROG>RAD>PRMT>RCLV
STOR
BACK
CLR
More
A/B
A/B
A=B
<-
->
Frequency Change
SMPX only
GPS
Option
Channel (CHAN) Menu
CH 6
F 16,000.00
USB
SQ
DSP
Scroll to desired parameter
Option
VCD
PVT#
DIG
CLR
TXM
For duplex and TX only channels
More
PWR
LOW
MED
HIGH
MAX
MODE
SSB
AME
PLT
ISB
Option
AGC
SLOW
FAST
OFF
BW
2.1
2.7
3.0
3.3
LSM
CW
BAND
LSB
USB
ISB-L
ISB-U
ISB Option
SQ
ON
OFF
DSP
CLAR
-200
OFF
+200
NF
CLIP
ON
OFF
NB
ON
OFF
ATTN
ON
OFF
Only for ALE Enabled
More
RCLV
Only if not enabled using PROG>RAD>PRMT>RCLV
GPS
Option
CALL
SEND
PAGE
More
MULT
ALL
SEND
PAGE
CLOB
SEL
NET
SEND
PAGE
CHAN
GRP
SEND
PAGE
CHAN
SEL
ANY
SEND
PAGE
CHAN
SEL
WILD
SEND
PAGE
CHAN
SEL
SELF
SEND
CHAN
MON
ON
OFF


PROG Menu - Radio Parameters
MENU
LOCK
PROG
PSW
DIM
RAD
ALE
LANG
ENG
FRNC
ESPA
VCD
Option
PVT
CONF
ERAS
CHAN
PRMT
OPTS
ACC
AMP
TUNE
NONE
ALE
YES
NO
BAUD
1.2
2.4
4.8
9.6
DPWR
LOW
MED
HIGH
MAX
MST
YES
NO
AST
YES
NO
More
PTBP
YES
NO
KBBP
YES
NO
TONE
LOW
HIGH
ADT
1
10
More
ATTN
YES
NO
CW
0.25
0.5
0.8
RCLV
YES
NO
DIM
YES
NO
GET
STOR
ERAS
PWR
LOW
MED
HIGH
MAX
More
FREQ
SMPX
DPLX
RXO
TXO
BAND
LSB
USB
ISB-L
ISB-U
Option
MODE
SSB
AME
PLT
ISB
Option
AGC
SLOW
FAST
OFF
BW
2.1
2.7
3.0
3.3
LSM
CW
More


ALE Operator Menu
MENU
CHAN
FREQ
ALE
BIT
Scroll
to desired
parameter
CALL
SEND
PAGE
CHAN
More
MULT
ALL
SEND
PAGE
GLOB
SEL
NET
SEND
PAGE
CHAN
GRP
SEND
PAGE
CHAN
SEL
ANY
SEND
PAGE
CHAN
SEL
WILD
SEND
PAGE
CHAN
SEL
SELF
SEND
CHAN
SEND
EDIT
CHAN
<->
LQA
BDIR
SOUND
ON
OFF
SEND
PAGE
CHAN
More
SEND
EDIT
CHAN
<->
MULT – NET
SEND
PAGE
CHAN
SEND
EDIT
CHAN
<->
MON
ON
OFF

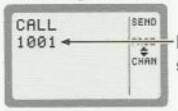
ALE Mode

1. Select ALE on MENU



Last active net.
Confirm with ↵

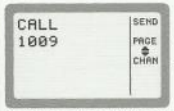
2. To change current net:



Last called station.
Type number or scroll ▲▼
Confirm with ↵

To call a station:

1. Type number or scroll ▲▼

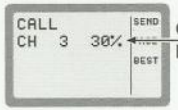


Confirm with ↵

2. Select SEND or ↵ to setup link

To call on a specific channel:

1. Select CHAN.



Channel with best score

2. Select BEST or scroll ▲▼
3. Select SEND or ↵ to setup link

To call last called station: press PTT twice

To call using Quick Net (optional):
Type index number of station (3 digits), and ↵ to setup link

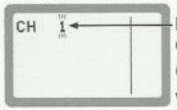
To send an AMD message:

1. Select PAGE.
2. Scroll ▲▼ to message, or EDIT.
3. To send: SEND or ↵

To disconnect LINK: press P. Esc

Channel (CH) Mode (also in ALE)

1. Select CHAN on MENU



Last used channel.
Confirm with ↵

2. To change channel:
Type number or scroll ▲▼
To select the priority channel (SCAN): P. Esc
Confirm with ↵

NOT PROG: Channel not programmed

Frequency (FREQ) Mode (not in ALE)

1. Select FREQ on MENU

Last used frequency
Confirm with ↵

2. To change current frequency and/or mode:
Press ▶ to display T/R.

Type new frequency or scroll digits.
Confirm with ↵

3. To store frequency in a channel:
Press ▶▶, and then press STOR

SCAN Mode (not in ALE)

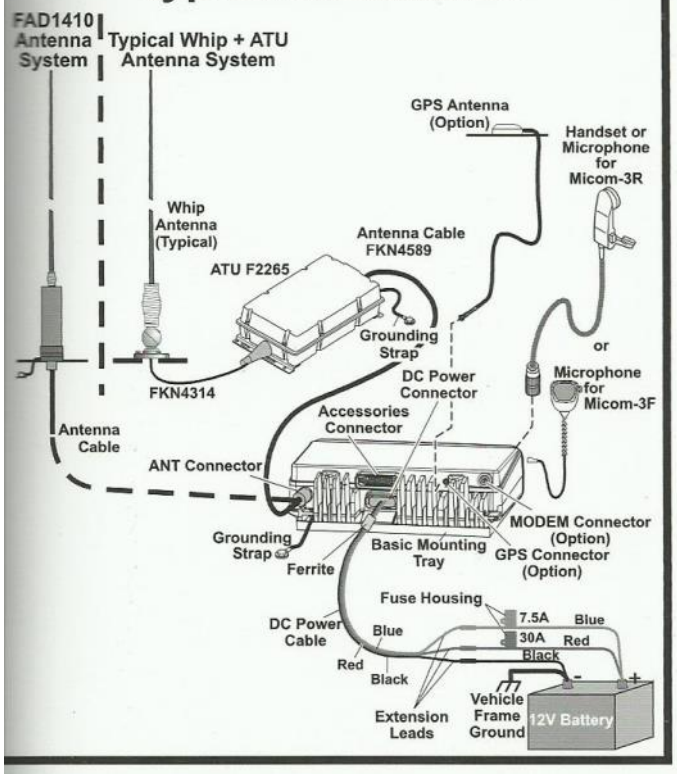
1. Select SCAN on MENU

2. Select scan group.
Confirm with ↵
NO SCAN GROUPS - no scan group is programmed

Internal Vocoder/Modem (Option)

For Privacy: On PROG>VCD>PVT, select key (1 to 7).
Press PTT and wait for two beeps before talking (no sidetone)

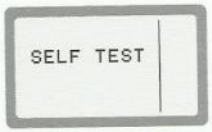
Micom-3F and Micom-3R Typical Installation



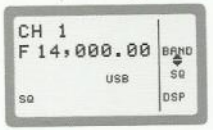
Turn-On

1. Turn on

2. Self test



3. After self test: last operating mode



Adjust brightness using MENU>CHAN>MORE>DIM>LEVEL

Preliminary Settings

Unlock Radio (if necessary)	Use MENU>MORE>LOCK: Enter the password (PSW), confirm with ↵
Automatic Dimming	Use PROG>RAD>PRMT>MORE>MORE>DIM to select YES or NO
Antenna Tuning	Use PROG>RAD>OPTS>ACC: - For using external RF power amplifier: select AMP - For using external ATU: select TUNE - For using broadband antenna: select NONE
Call and Link Establishment Mode	Use PROG>RAD>OPTS>ALE: - For ALE: select YES - SCAN: select NO
For External Modem and/or Vocoder	For each channel: Use PROG>RAD>CHAN>MORE>MORE>BW to select BW=3.3
Encryption	For each channel: Use PROG>VCD>PVT to select key (1 to 7)

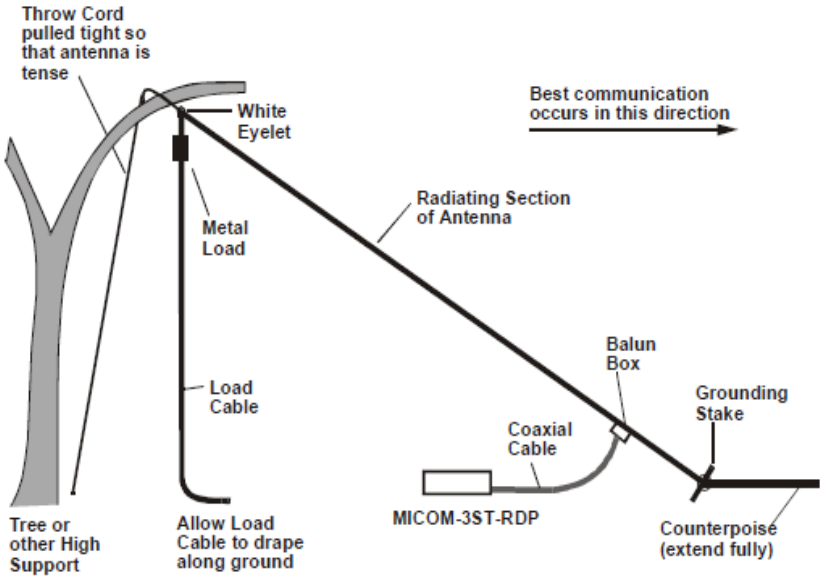


Figure 3. Erecting a Broadband Antenna with Earth Grounding

MICOM RDP ANTENNA SUGGESTIONS

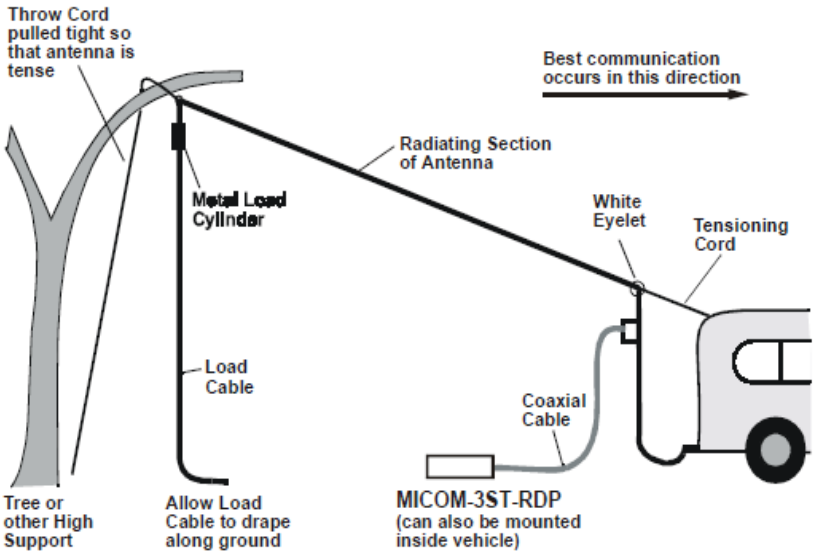


Figure 4. Erecting a Broadband Antenna Using a Vehicle for Grounding

NER WING UNIT CALL SIGNS 1					
WING	UNIT NAME	LOCATION	RADIO CALL SIGNS	VEHICLE CALL SIGN	HF ALE CALL SIGN
CT		STATE WIDE	CHARTER OAK	XXX	00##CTCAP
MA		STATE WIDE	PATRIOT		00##MACAP
ME		STATE WIDE	DOWN EAST	###	00##MECAP
NH		STATE WIDE	ABERNAKI		00##NHCAP
NJ			RED DRAG-ON		00##NJCAP
NY	WING STAFF	STATE WIDE	WHITE PEAK	1-99	00##NYCAP
	GROUP 1	NYC	WHITE PEAK	100-199	00##NYCAP
	GROUP 2	LIG	WHITE PEAK	200-299	00##NYCAP
	GROUP 3	SEG	WHITE PEAK	300-399	00##NYCAP
	GROUP 4	MEG	WHITE PEAK	400-499	00##NYCAP
	GROUP 5	CMG	WHITE PEAK	500-599	00##NYCAP
	GROUP 6	SCG	WHITE PEAK	600-699	00##NYCAP
	GROUP 7	CNY	WHITE PEAK	700-799	00##NYCAP
	GROUP 8	FLG	WHITE PEAK	800-899	00##NYCAP
	GROUP 9	WNY	WHITE PEAK	900-999	00##NYCAP

NER WING UNIT CALL SIGNS 2					
CHAR-TER	UNIT NAME	LOCATION	RADIO CALL SIGNS	VEHICLE CALL SIGN	HF ALE CALL SIGN
PA	WING	STATE WIDE	WHITE TAIL	1-99	00##PACAP
	GROUP 1		WHITE TAIL	100-199	00##PACAP
	GROUP 2		WHITE TAIL	200-299	00##PACAP
	GROUP 3		WHITE TAIL	300-399	00##PACAP
	GROUP 4		WHITE TAIL	400-499	00##PACAP
	GROUP 5		WHITE TAIL	500-599	00##PACAP
	GROUP 6		WHITE TAIL	600-699	00##PACAP
RI		STATE WIDE	NARGAN-SETT		00##RICAP
VT		STATE WIDE	LONG TRAIL		00##VTCAP
NER		REGION WIDE	CAPSTONE	1-99	0##NERCAP

NER WING UNIT CALL SIGNS 3					
CHARTER	UNIT NAME	LOCATION	RADIO CALL SIGNS	VEHICLE CALL SIGN	A/C CALL SIGN

NER WING UNIT CALL SIGNS 4					
CHARTER	UNIT NAME	LOCATION	RADIO CALL SIGNS	VEHICLE CALL SIGN	A/C CALL SIGN

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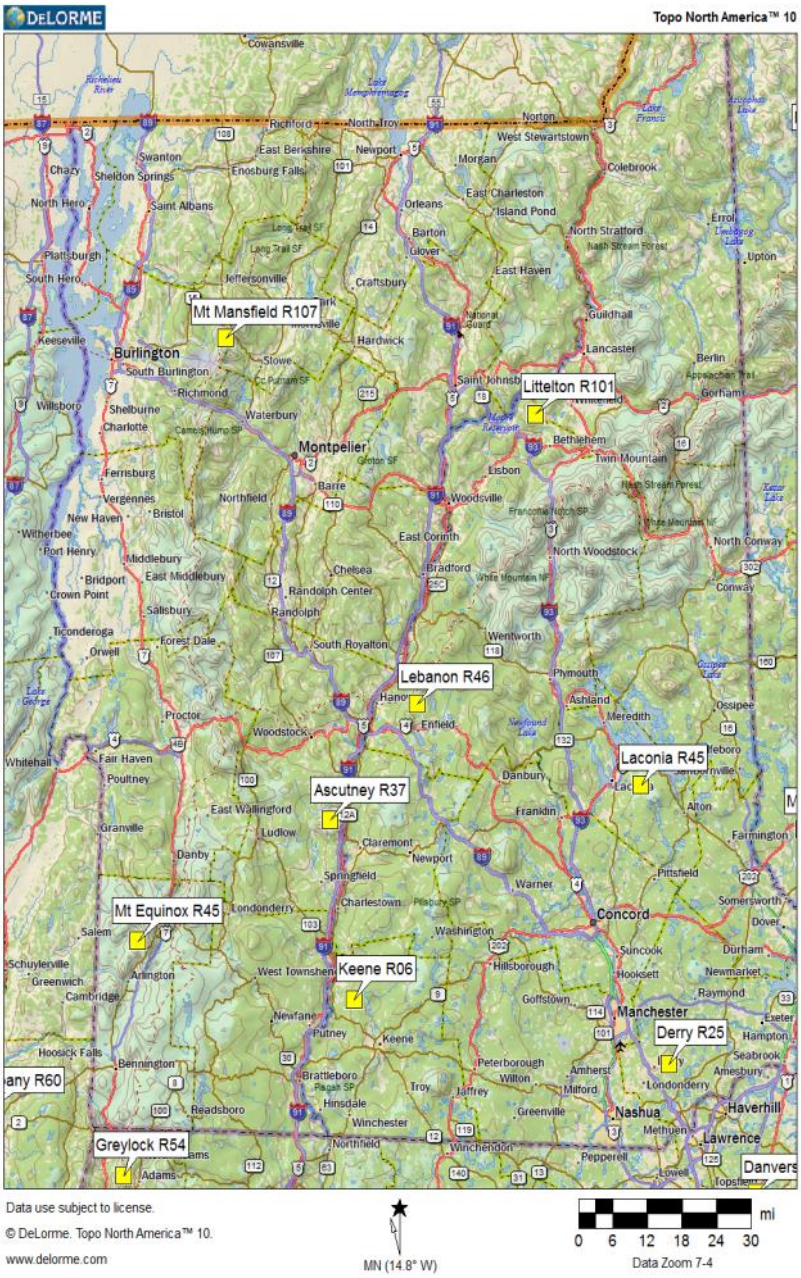
DeLORME
Topo North America™ 10
Mt Mansfield R107
Littleton R101
Lebanon R46
Laconia R45
Ascutney R37
Mt Equinox R45
Keene R06
Derry R25
Greylock R54
Burlington
Montpelier
Concord
Manchester
Nashua
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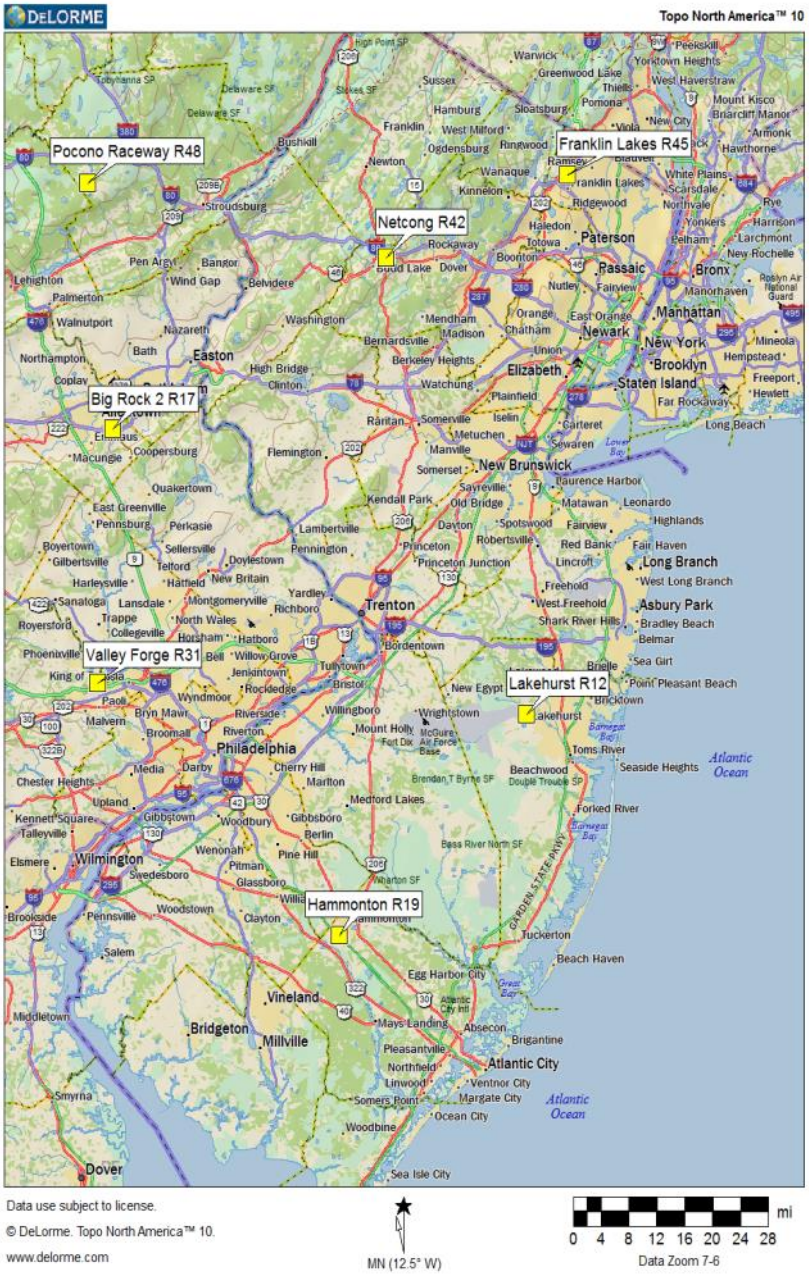
www.delorme.com
MN (14.8° W)
0 6 12 18 24 30 mi
Data Zoom 7-4


DeLORME
Topo North America™ 10
Pocono Raceway R48
Franklin Lakes R45
Netcong R42
Big Rock 2 R17
Valley Forge R31
Lakehurst R12
Hammonton R19
Philadelphia
Trenton
Wilmington
Easton
Paterson
Passaic
Bronx
Manhattan
Newark
New York
Brooklyn
Staten Island
Elizabeth
New Brunswick
Long Branch
Asbury Park
Atlantic City
Vineland
Bridgeton
Millville
Dover
Atlantic Ocean
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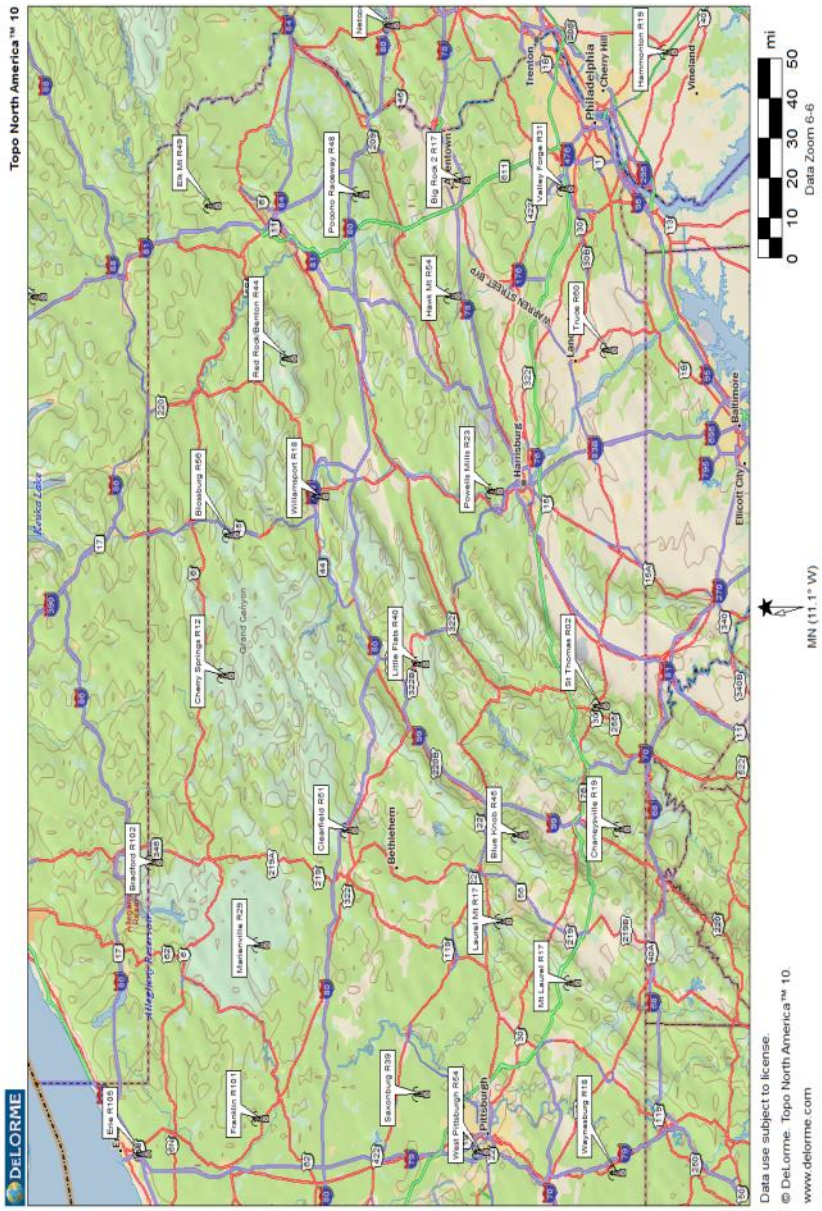
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Grand Canyon
Bloosburg R56
Williamsport R18
Red Rock-Benton R44
Elk Mt R49
Allegheny Reservoir
Kinzua Lake
Saxonburg R39
Bethlehem
Little Flats R40
Pocono Raceway R48
Hawk Mt R54
Big Rock 2 R17
Allentown
Powells Mills R23
Harrisburg
Blue Knob R46
Laurel Mt R17
West Pittsburgh R54
Pittsburgh
Mt Laurel R37
Waynesburg R18
Chambersville R19
St Thomas R02
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Cherry Hill
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Vineland
Trace R66
Baltimore
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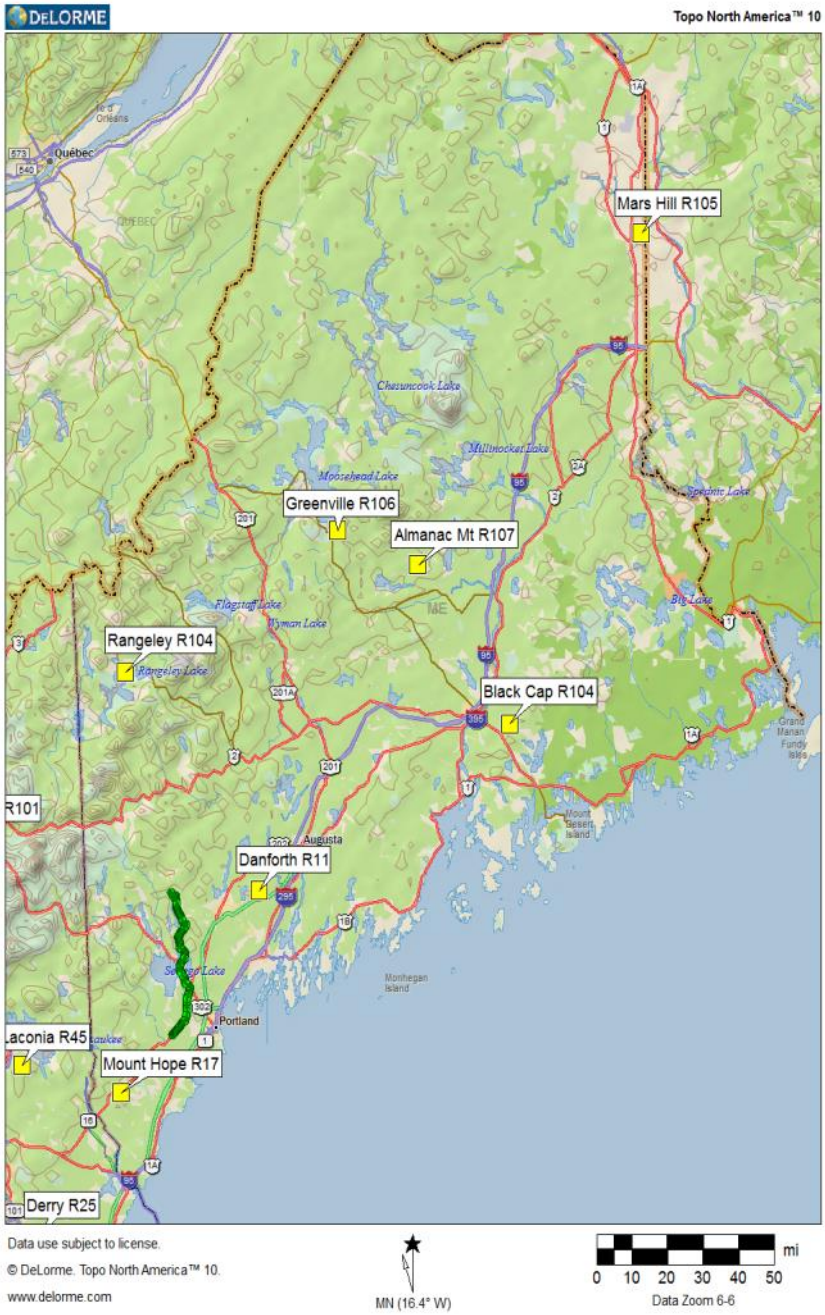
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Rangeley R104
Black Cap R104
Danforth R11
Laconia R45
Mount Hope R17
Derry R25
R101
Chesuncook Lake
Millinocket Lake
Moosehead Lake
Flagstaff Lake
Wyman Lake
Rangeley Lake
Big Lake
Quebec
Augusta
Portland
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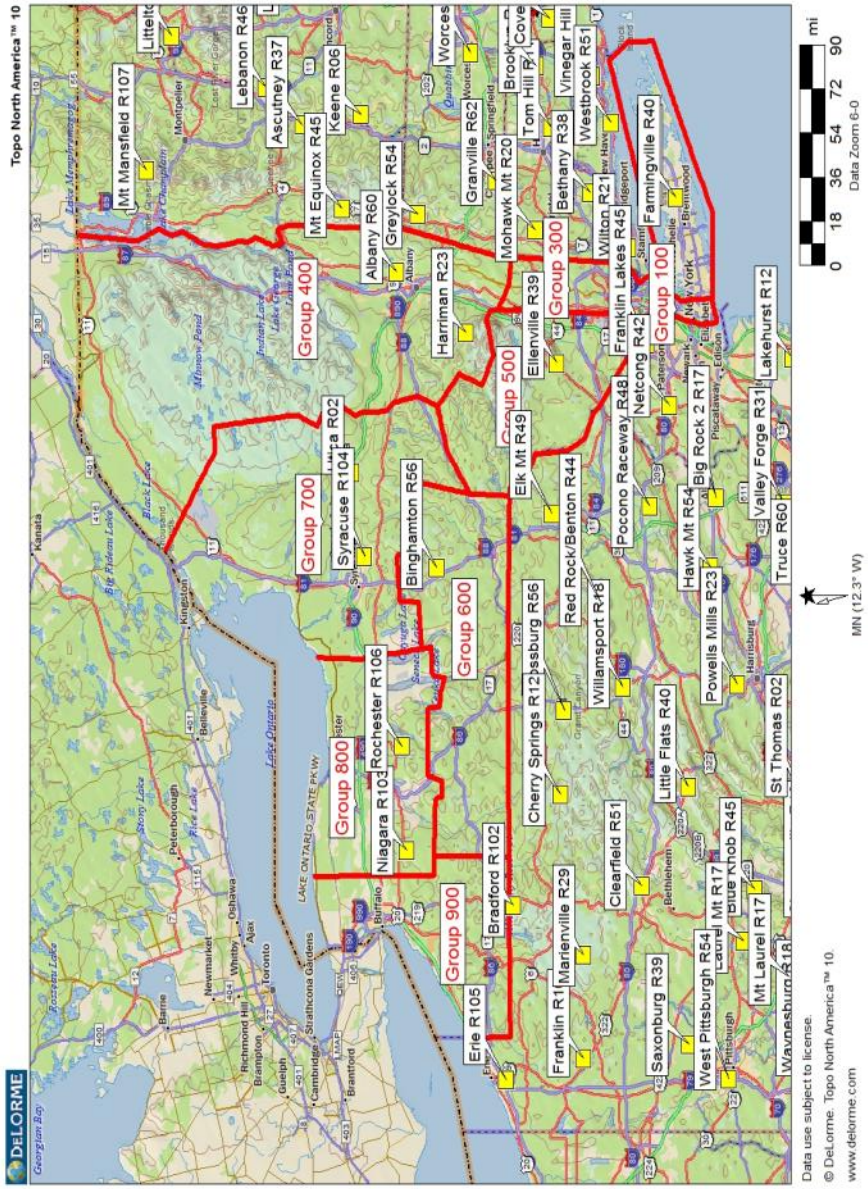
Topo North America™ 10
DeLORME
Group 100
Group 300
Group 400
Group 500
Group 600
Group 700
Group 800
Group 900
Mt Mansfield R107
Lebanon R46
Ascutney R37
Keene R06
Mt Equinox R45
Albany R60
Greylock R54
Granville R62
Harriman R23
Mohawk Mt R20
Tom Hill R
Vinegar Hill
Westbrook R51
Bethany R38
Wilton R21
Franklin Lakes R45
Farmingville R40
Ellenville R39
Elk Mt R49
Syracuse R104
Binghamton R56
Pocono Raceway R48
Netcong R42
Lakehurst R12
Valley Forge R31
Big Rock 2 R17
Hawk Mt R54
Truce R60
Red Rock/Benton R44
Willamsport R18
Cherry Springs R12
Rochester R106
Niagara R103
Bradford R102
Erie R105
Franklin R1
Marienville R29
Clearfield R51
Little Flats R40
Powells Mills R23
St Thomas R02
Saxonburg R39
West Pittsburgh R54
Laurel Mt R17
Blue Knob R45
Mt Laurel R17
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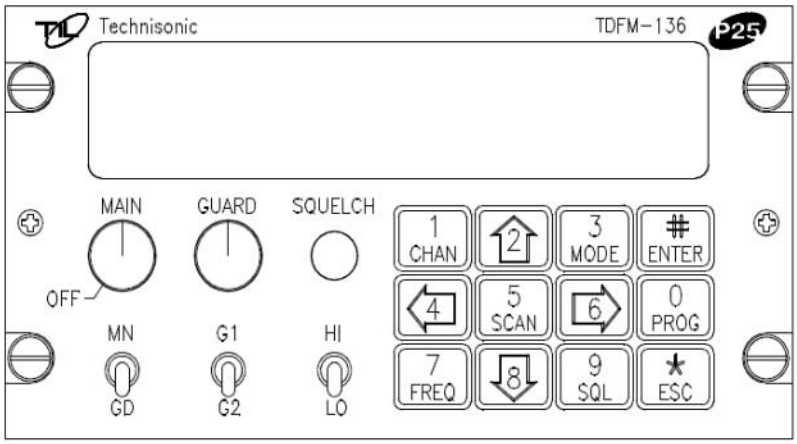
MN (12.3° W)

For Radio Firmware: 2.0.0



MAIN – Main channel volume and power on/off switch
GUARD – Guard channel volume
SQUELCH – Squelch defeat

MN/GD – Selects active channel for transmit and for edit functions
G1/G1 – Selects active Guard channel G1 or G2
HI/LO – Selects Hi (10w) or low (1w) transmit power

2 ROW DISPLAY – Top row Main parameters, Bottom row Guard parameters
12 BUTTON KEYPAD – Control radio functions, 3 command levels as follows:

Command Level 1: press the 'Cmnd' key. . .				
Cmnd	Function	Edit Keys	OK	Exit
1 CHAN	SELECT MEMORY	NUMBERS (0 – 9): SELECT CHANNEL MEMORY	# ENTER	* ESC
2	DISPLAY BRIGHTER			
3 MODE	EDIT OPERATING MODE	3 MODE 2 8 STEP UP/DOWN THROUGH OP MODES	# ENTER	* ESC
4	SCROLL MEMORY DOWN	SCROLL DOWN THROUGH MEMORY POSITIONS		
5 SCAN	SCAN ON/OFF	5 SCAN START SCAN * ESC STOP SCAN	# ENTER	* ESC
6	SCROLL MEMORY UP	SCROLL UP THROUGH THE PROGRAMMED MEMORY POSITIONS		
7 FREQ	EDIT FREQUENCY	0 PROG TO 9 SQL TO SELECT FREQUENCY, Tx FOLLOWS Rx.	# ENTER	* ESC
8	DISPLAY DIMMER			
9 SQL	EDIT SQUELCH MODE	9 SQL 2 8 STEP UP/DOWN THROUGH SQUELCH MODES	# ENTER	* ESC
	EDIT SQUELCH VALUE	0 PROG TO 9 SQL DECIMAL EDIT 2 8 STEP UP/ DOWN THROUGH HEX NUM or VALUE SELECTION	# ENTER	* ESC
0 PROG	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL		

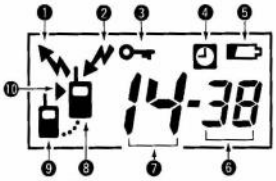
Command Level 2: press [0 PROG] + the 'Cmnd' key. . .				
Cmnd	Function	Edit Keys	OK	Exit
[1 CHAN]	CREATE/EDIT CHANNEL	NUMBERS (0 – 9): SELECT CHANNEL MEMORY TO EDIT EDIT: SCAN, TEXT, MODE, FREQUENCY, SQUELCH	[# ENTER]	[* ESC]
[⇧]	COPY GUARD TO MAIN	COPY CHANNEL PARAMETERS FROM GUARD TO MAIN		
[3 MODE]	LOCK KEYPAD	[* ESC] UNLOCK KEYPAD		
[◁4]	n/u			
[5 SCAN]	EDIT SCAN LISTS	[5 SCAN] STEP THROUGH LISTS (1-15) [0 PROG] TOGGLE ENABLE/DISABLE FOR SCAN	[# ENTER]	[* ESC]
[▷6]	EDIT DESCRIPTION	[3 MODE] STEP THROUGH CHARACTER GROUPS (A, a, 0, blank) [⇧] [⇩8] SCROLL THROUGH CHARACTERS [◁4] [▷6] MOVE CURSOR	[# ENTER]	[* ESC]
[7 FREQ]	CREATE/EDIT SHADOW	NUMBERS (0 – 9): SELECT CHANNEL MEMORY TO EDIT EDIT: TEXT, MODE, SQUELCH	[# ENTER]	[* ESC]
[⇩8]	COPY MAIN TO GUARD	COPY CHANNEL PARAMETERS FROM MAIN TO GUARD		
[9 SQL]	SET UNIT ID	[0 PROG] TO [9 SQL] DECIMAL EDIT	[# ENTER]	[* ESC]
[0 PROG]	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL		
[# ENTER]	n/u			
[* ESC]	GO TO PREVIOUS LEVEL	GO TO THE PREVIOUS COMMAND LEVEL		

Command Level 3: press [0 PROG], [0 PROG] + the 'Cmnd' key. . .				
Cmnd	Function	Edit Keys	OK	Exit
[1 CHAN]	SELECT BOOT CHANNEL	[1 CHAN] [⇧] [⇩8] STEP UP/DOWN THROUGH BOOT MEMORY OPTIONS	[# ENTER]	[* ESC]
[⇧]	n/u			
[3 MODE]	NUMERIC EDIT MODE	[3 MODE] [⇧] [⇩8] TOGGLE HEX / DECIMAL EDIT FOR T.G. & NAC	[# ENTER]	[* ESC]
[◁4]	DISPLAY SOFTWARE REV	[◁4] [⇧] [⇩8] TOGGLE MAIN/BOOT INFORMATION	[# ENTER]	[* ESC]
[5 SCAN]	SET SCAN PARAMETERS	[5 SCAN] [⇧] [⇩8] SELECT REVERT MODE [0 PROG] TO [9 SQL] SET TIMERS (REPLY, MONITOR, DELAY)	[# ENTER]	[* ESC]
[▷6]	SET PTT TIMER	[▷6] [⇧] [⇩8] STEP THROUGH TIMER VALUES	[# ENTER]	[* ESC]
[7 FREQ]	SET SIDETONE AUDIO	[0 PROG] TO [9 SQL] DECIMAL EDIT	[# ENTER]	[* ESC]
[⇩8]	PC COMMUNICATION	MUST BE CONNECTED TO PC RUNNING TDP-136 SOFTWARE		
[9 SQL]	DISPLAY SQUELCH VALUES	[9 SQL] [⇧] [⇩8] TOGGLE Rx/Tx SQUELCH PARAMETER DISPLAY	[# ENTER]	[* ESC]
[0 PROG]	n/u			
[# ENTER]	n/u			
[* ESC]	GO TO PREVIOUS LEVEL	GO TO THE PREVIOUS COMMAND LEVEL		

NOTES:

1. The channel being edited depends on the position of the front panel channel select switches (MN/GD and GD1/GD2).
2. The current command level is shown in the 4th position on the lower (Guard) line of the display, level 1 is always blank, other levels are indicated by display of the level digit.
3. Command levels 2 and 3 are time limited, if the user does not enter a command, the unit will return to command level 1.

■ Function display



❶ **TRANSMIT INDICATOR**
Appears during PTT on.

❷ **BUSY INDICATOR**
Appears while receiving a signal or when the squelch is open.

❸ **KEY LOCK INDICATOR**
Appears during key lock function ON.

❹ **AUTO POWER OFF INDICATOR**
Appears while the auto power off function is ON. (see p. 15)

❺ **LOW BATTERY INDICATOR**
Appears or flashes when battery power has decreased to a specified level.

❻ **GROUP NUMBER INDICATION**
One of 01 to 38 appear while the Group function is turned ON.

❼ **CHANNEL NUMBER INDICATOR**
Indicates operating channel number.

❽ **POWER ON INDICATOR**
Appears while the power is ON.

❾ **ANSWER BACK INDICATOR** (see p. 17)
- Appears when you and your group are in the conversation area.
- Blinks when you or your group is out of the conversation area.

❿ **PTT HOLD INDICATOR** (see p. 16)
- Appears when the "PTT HOLD" function is turned ON.
- Blinks while the transceiver is transmitting.

ACCESSORIES

■ Accessory attachment

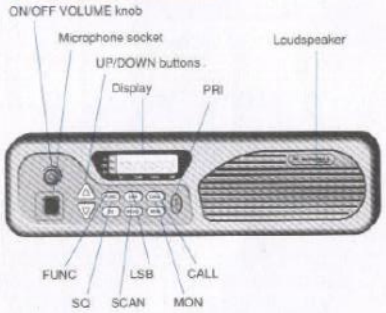
◇ **Antenna**

Warning: The antennas on these radios have proven to break very easily when extended. Except in extreamly weak signal conditions, keep the antenna down, against the body of the radio.

Keep the jack cover attached when jacks are not in use to avoid bad contacts.

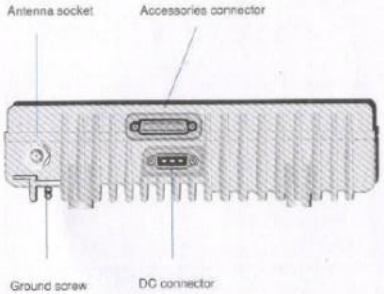
MICOM-2 Quick Reference Card

Transceiver Controls



PRI button	Terminates each temporary activity and returns to CH mode.
MON button	Not in use.
CALL button	Not in use.
SCAN button	Starts scanning all the preprogrammed channels in the chosen group.
LSB button	Enables/disables lower sideband operation.
SQ button	Activates/deactivates the squelch algorithm.
FUNC button	Changes cyclically between the following modes: CH, CLAR, FREQ, DIM and NB (optional).
UP/DOWN buttons	Scroll up/down the parameters of the mode displayed

Transceiver Rear Panel



Operating Modes

The FUNC button changes cyclically between:

CH	The default stable position. The radio displays the selected working channel.
CLAR	Displays the deviation (measured in Hertz) from the nominal frequency.
FREQ	Displays the operating frequency.
DIM	In this mode you can adjust the level of display illumination.
NB (optional)	Activates/deactivates the noise blanker mode, provided your radio model includes this option.

Status Annunciators

CLAR	The frequency deviation is other than 0.
NB	The Noise Blanker option is activated.

Valid key press:	A beep is sounded when a keypad key is pressed to indicate that the key was accepted. (When enabled via the RSS.)
PTT release:	A beep is sounded on the remote radio to indicate that the PTT button was released. (When enabled via the RSS.)

LED Indications

LED	Color	indicates
Tx	Red	Transmission.
LSB	Orange	The radio operates in LSB mode.
SQ	Yellow	The squelch is activated.

Frequency Display

Operating Instructions

Basic Operations

To Turn the Radio On

- Turn the ON/OFF VOLUME knob to the right until it clicks.
- The display shows SELF TEST for about 3 sec.
- The last working mode CH or SCAN, is displayed.

To Select the Channel

- Display CH mode.
- Scroll to the required channel.

To Set the Frequency Deviation

- Display CLAR mode.
- Scroll to the required deviation (up to ±200 Hz).
- To nullify, scroll to zero and press FUNC or PRI to return to CH mode.

To View a Channel Frequency

- Scroll to the required channel.
- Display the FREQ mode

To Set the Display Illumination

- Display DIM mode.
- Set the preferred volume of light using the UP/DOWN buttons.

To Filter the Cyclic Noise (optional)

- Display NB mode.
- Set to ON using the UP/DOWN buttons.

To Receive

- Set the volume by turning the ON/OFF VOLUME knob clockwise.
- Select the channel by pressing the UP/DOWN buttons.
- To activate the squelch mode, press the SQ button.

To Transmit

NOTE: Before transmitting, ensure that the RF output of the radio is connected to a tuned antenna or to a dummy load.

- Press and hold down the Push-to-Talk (PTT) button on the side of the microphone and speak slowly and clearly.
- The Tx LED will remain red until the PTT button is released to indicate that you are "on-the-air".

To Check the RF Power

- Press the PTT button. Baseline bars appear on the display.
- Speak into the microphone. Vertical bars indicating the power level appear above the baseline bars
- Whistle into the microphone to check the power level. As the forward power increases, the number of vertical bars increases from left to right.
  - At 100% forward power, all vertical bars appear on the display.
  - As the reflected power increases, some bars will be missing on the left hand side of the display.
- The display shows the "net" RF power delivered to the antenna.

To Scan the Channels

- Press the SCAN button. The display shows the last scanned group.
- Scroll to scan a different group.
- To stop scanning, press the SCAN or PRI buttons or the PTT button on the microphone.

To Tune the Antenna Tuner

NOTE: Ensure that the antenna system is equipped with an automatic antenna tuner and the tuner is enabled.

- Display DIM mode and keep pressing the FUNC button for about 3 seconds. The baud rate is displayed.
- Press the FUNC button again and TUNE OFF appears on the screen.
- Toggle to TUNE ON.

NOTES