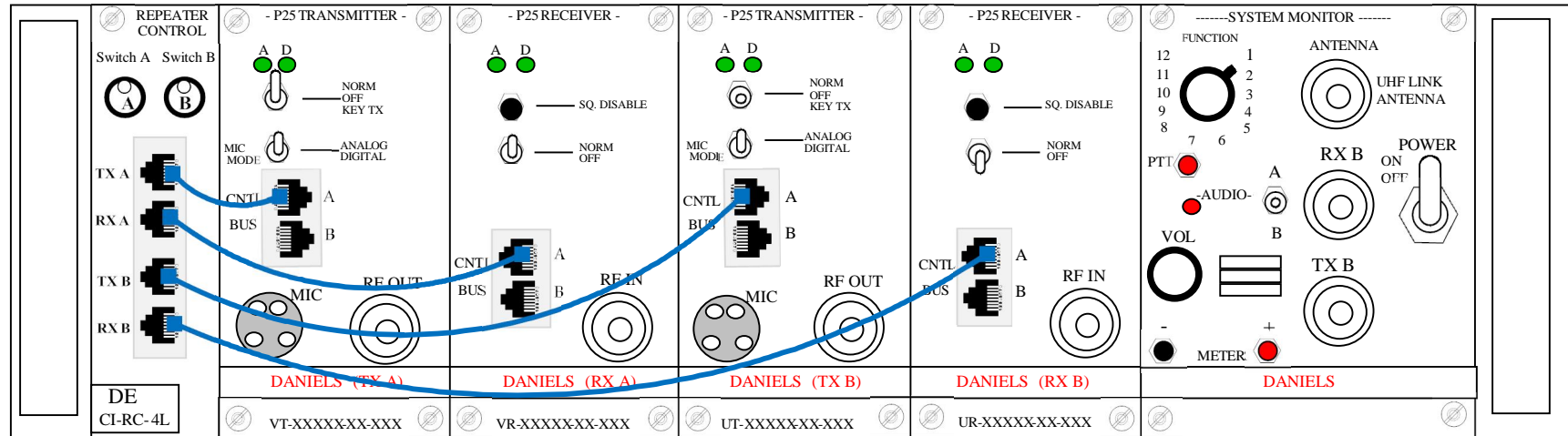




# DANIELS COMMAND REPEATER SWITCH SETTINGS 4312-REPEATER CONFIGURATION



## 4312 - REPEATER CONFIGURATION:

1. Connect the power cable to batteries using provided fused cable.
2. Turn Power Switch to the "ON" position on the System Monitor.
3. Keep the switches on **TX A** and **RX A** in the "NORM" position.
4. Keep the switches on **TX B** and **RX B** in the "OFF" position. (Stand Alone Repeater Configuration- No Linking)
5. Keep the **MIC MODE** switch on both **TX A** and **TX B** in the "ANALOG" position.
6. Keep the A/B Audio Select Switch on System Monitor Module to the center position.
7. Select the desired tone by turning Switch A knob located on the top portion of the CI-RC-4L Card to assigned tone. (16 Position Knob, 1-16)

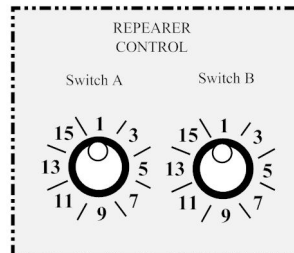
### (See Tone Selection List Below)

**Note:** Selecting Tone will Enable tone on Both TXA and RXA Modules, The Communications Duty Officer (CDO) will assign the appropriate tone.

### Switch A - Tone Selection List

- Position 1 - Tone 1 - 110.9
- Position 2 - Tone 2 - 123.0
- Position 3 - Tone 3 - 131.8
- Position 4 - Tone 4 - 136.5
- Position 5 - Tone 5 - 146.2
- Position 6 - Tone 6 - 156.7
- Position 7 - Tone 7 - 167.9
- Position 8 - Tone 8 - 103.5
- Position 9 - Tone 9 - 100.0
- Position 10 - Tone 10 - 107.2
- Position 11 - Tone 11 - 114.8
- Position 12 - Tone 12 - 127.3
- Position 13 - Tone 13 - 141.3
- Position 14 - Tone 14 - 151.4
- Position 15 - Tone 15 - 162.2
- Position 16 - No Tone

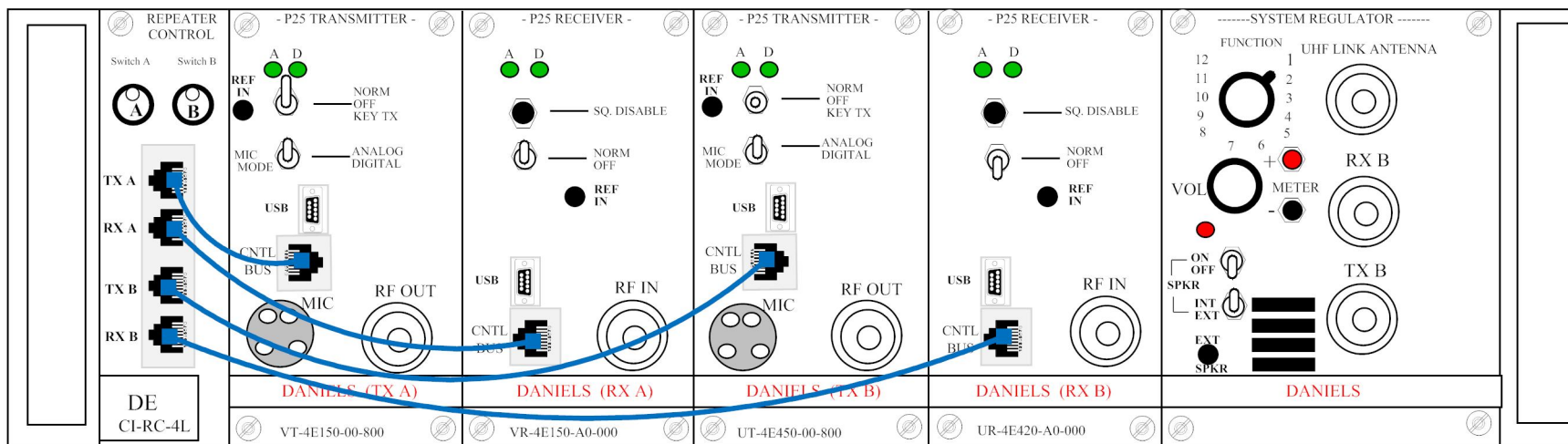
Close Up View  
Switch A, Switch B  
CI-RC-4L Card



National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Command Repeater and UHF Link ( 4312- Repeater Configuration Only)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011



# DANIELS COMMAND REPEATER SWITCH SETTINGS 4312-REPEATER CONFIGURATION (E-MODELS ONLY)



## 4312 - REPEATER CONFIGURATION (E-MODELS ONLY)

1. Connect the power cable to batteries using provided fused cable. Once power cable is connected, all modules are active. (No Master Power Switch)
2. Keep the switches on the **TX A** and **RX A** in the "**NORM**" position.
3. Keep the switches on the **TX B** and **RX B** in the "**OFF**" position. (Stand Alone Repeater Configuration- No Linking)
4. Keep the **MIC MODE** switch on both **TX A** and **TX B** in the "**ANALOG**" position.
5. Keep the speaker audio off by switching the Speaker Switch on the System Regulator to the "**OFF**" position.
6. Select the desired tone by turning Switch A knob located on the top portion of the CI-RC- 4L Card to assigned tone. (16 Position Knob, 1-16)

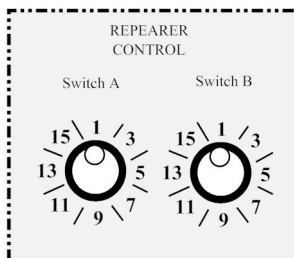
(See [Tone Selection List Below](#))

*Note: Selecting Tone will Enable tone on Both TXA and RXA Modules, The Communications Duty Officer (CDO) will assign the appropriate tone.*

## Switch A - Tone Selection List

- Position 1 - Tone 1 - 110.9
- Position 2 - Tone 2 - 123.0
- Position 3 - Tone 3 - 131.8
- Position 4 - Tone 4 - 136.5
- Position 5 - Tone 5 - 146.2
- Position 6 - Tone 6 - 156.7
- Position 7 - Tone 7 - 167.9
- Position 8 - Tone 8 - 103.5
- Position 9 - Tone 9 - 100.0
- Position 10 - Tone 10 - 107.2
- Position 11 - Tone 11 - 114.8
- Position 12 - Tone 12 - 127.3
- Position 13 - Tone 13 - 141.3
- Position 14 - Tone 14 - 151.4
- Position 15 - Tone 15 - 162.2
- Position 16 - No Tone

Close Up View  
Switch A, Switch B  
CI-RC-4L Card



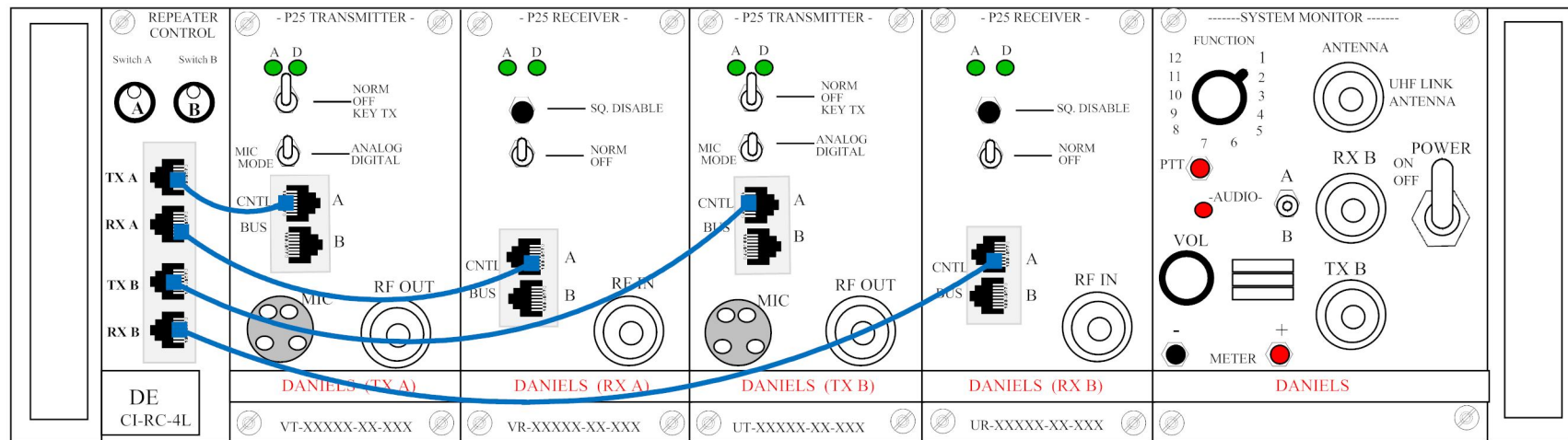
## To Enable Audio to Internal Speaker for troubleshooting:

1. Turn the speaker on by switching switch to the "ON" position located on the System Regulator Module.
2. Select the desired receiver audio, A or B by turning the Function Switch located on the System Regulator to position 3 for RX Audio A, or position 5 for RX audio B.

National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Command Repeater and UHF Link ( 4312- Repeater Configuration E-Models Only)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011



# DANIELS COMMAND REPEATER LINK SWITCH SETTING 4312-REPEATER LINK CONFIGURATION



## 4312 - REPEATER/LINK CONFIGURATION:

1. Connect the power cable to batteries using provided fused cable.
2. Turn Power Switch to the "ON" position on the System Monitor.
3. Keep switches on TX A, RX A, TXB, and RXB in "NORM" position
4. Keep the A/B Audio Select Switch on System Monitor Module to center position.
5. Keep the MIC MODE switch on both TX A and TX B in the ANALOG position.
6. Select desired tone by turning the Switch A knob located on the top portion of the CI-RC- 4L Card to assigned tone. (16 Position Knob, 1-16) (See Tone Selection List and Note Below)
7. Select desired UHF frequency by turning the Switch B knob to assigned UHF Frequency. (16 Position Knob, 1-16) (See UHF Link Frequency Selection List Below)

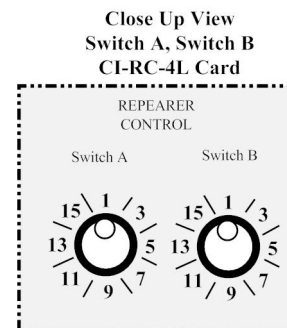
**Note:** Selecting Tone will Enable tone on Both TXA and RXA Module, The Communications Duty Officer (CDO) will assign the appropriate tone.

### Switch A - Tone Selection List

- Position 1 - Tone 1 - 110.9
- Position 2 - Tone 2 - 123
- Position 3 - Tone 3 - 131.8
- Position 4 - Tone 4 - 136.5
- Position 5 - Tone 5 - 146.2
- Position 6 - Tone 6 - 156.7
- Position 7 - Tone 7 - 167.9
- Position 8 - Tone 8 - 103.5
- Position 9 - Tone 9 - 100.0
- Position 10 - Tone 10 - 107.2
- Position 11 - Tone 11 - 114.8
- Position 12 - Tone 12 - 127.3
- Position 13 - Tone 13 - 141.3
- Position 14 - Tone 14 - 151.4
- Position 15 - Tone 15 - 162.2
- Position 16 - No Tone

### Switch B - UHF Link Frequency Selection List

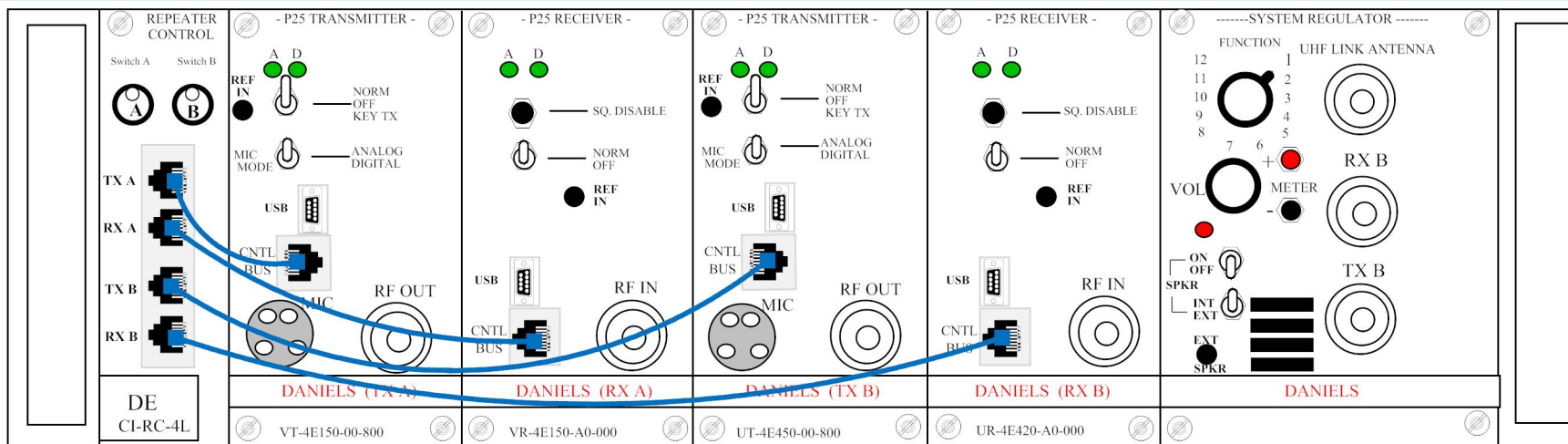
- Position 1 - L1 RPTR
- Position 2 - L2 RPTR
- Position 3 - L3 RPTR
- Position 4 - L4 RPTR
- Position 5 - L5 RPTR
- Position 6 - L6 RPTR
- Position 7 - L7 RPTR
- Position 8 - L1 RX SIMPLEX
- Position 9 - L2 RX SIMPLEX
- Position 10 - L3 RX SIMPLEX
- Position 11 - L4 RX SIMPLEX
- Position 12 - L5 RX SIMPLEX
- Position 13 - L6 RX SIMPLEX
- Position 14 - L7 RX SIMPLEX
- Position 15 - Special Use, SIMPLEX
- Position 16 - Special Use, SIMPLEX



National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Command Repeater and UHF Link (4312 - Repeater/Link Configuration)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011



# DANIELS COMMAND REPEATER LINK SWITCH SETTINGS 4312-REPEATER LINK CONFIGURATION (E-MODELS ONLY)



## 4312 - REPEATER/LINK CONFIGURATION (E-MODELS ONLY)

1. Connect the power cable to the batteries using provided fused cable. Once power cable is connected, all modules are active. (No Master Power Switch)
2. Turn on each module by keeping switches on **TX A**, **RX A**, **TX B**, and **RX B** in the "NORM" position
3. Keep the speaker audio off by switching the Speaker Switch on the System Regulator to the "OFF" position.
4. Keep the **MIC MODE** switch on both **TX A** and **TX B** in the **ANALOG** position.
5. Select desired tone by turning the Switch A knob located on the top portion of the CI-RC- 4L Card to assigned tone. (16 Position Knob, 1-16), [See UHF Link Frequency Selection List Below](#)
6. Select desired UHF frequency by turning the Switch B knob to assigned UHF Frequency. (16 Position Knob, 1-16), [\(See Tone Selection List Below\)](#)

**Note:** Selecting Tone will Enable tone on Both TXA and RXA Module, The Communications Duty Officer (CDO) will assign the appropriate tone.

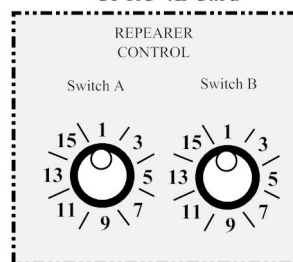
### Switch A - Tone Selection List

- Position 1 - Tone 1 - 110.9
- Position 2 - Tone 2 - 123
- Position 3 - Tone 3 - 131.8
- Position 4 - Tone 4 - 136.5
- Position 5 - Tone 5 - 146.2
- Position 6 - Tone 6 - 156.7
- Position 7 - Tone 7 - 167.9
- Position 8 - Tone 8 - 103.5
- Position 9 - Tone 9 - 100.0
- Position 10 - Tone 10 - 107.2
- Position 11 - Tone 11 - 114.8
- Position 12 - Tone 12 - 127.3
- Position 13 - Tone 13 - 141.3
- Position 14 - Tone 14 - 151.4
- Position 15 - Tone 15 - 162.2
- Position 16 - No Tone

### Switch B - UHF Link Frequency Selection List

- Position 1 - L1 RPTR
- Position 2 - L2 RPTR
- Position 3 - L3 RPTR
- Position 4 - L4 RPTR
- Position 5 - L5 RPTR
- Position 6 - L6 RPTR
- Position 7 - L7 RPTR
- Position 8 - L1 RX SIMPLEX
- Position 9 - L2 RX SIMPLEX
- Position 10 - L3 RX SIMPLEX
- Position 11 - L4 RX SIMPLEX
- Position 12 - L5 RX SIMPLEX
- Position 13 - L6 RX SIMPLEX
- Position 14 - L7 RX SIMPLEX
- Position 15 - Special Use, SIMPLEX
- Position 16 - Special Use, SIMPLEX

Close Up View  
Switch A, Switch B  
CI-RC-4L Card



### To Enable Audio to Internal Speaker for troubleshooting:

1. Turn the speaker on by switching switch to the "ON" position located on the System Regulator Module.
2. Select the desired receiver audio, A or B by turning the Function Switch located on the System Regulator to position 3 for RX Audio A, or position 5 for RX audio B.

### National Interagency Fire Center National Interagency Incident Communications Division

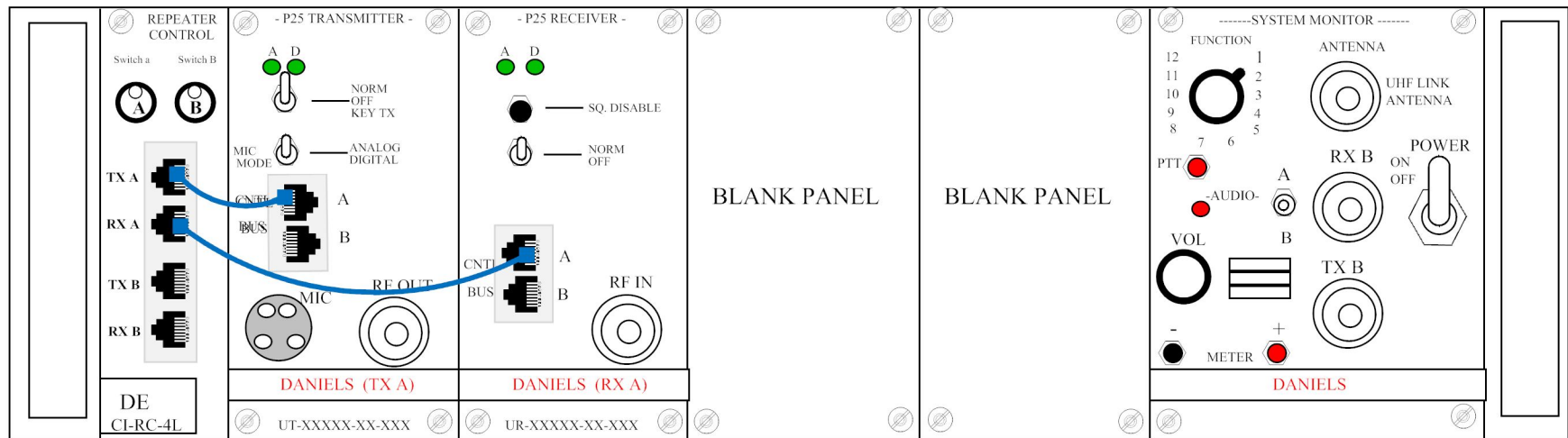
### NIFC Switch Settings for Daniels Command Repeater and UHF Link (4312 - Repeater/Link Configuration E-Models Only)

Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011





# DANIELS LOGISTICS REPEATER SWITCH SETTINGS 4248 - UHF REPEATER CONFIGURATION

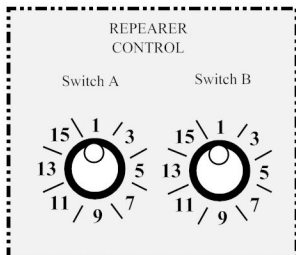


## 4248 - UHF REPEATER CONFIGURATION:

1. Connect the power cable to batteries using provided fused cable.
2. Turn Power Switch to the "ON" position on the System Monitor.
3. Keep power switches on TX A and RX A in "NORM" position.
4. Keep Mic Mode on TX A in the "ANALOG" position.
5. Keep the A/B Audio Select Switch on System Monitor Module to center position.

**Note:** No Tones are available on the Logistics repeater.

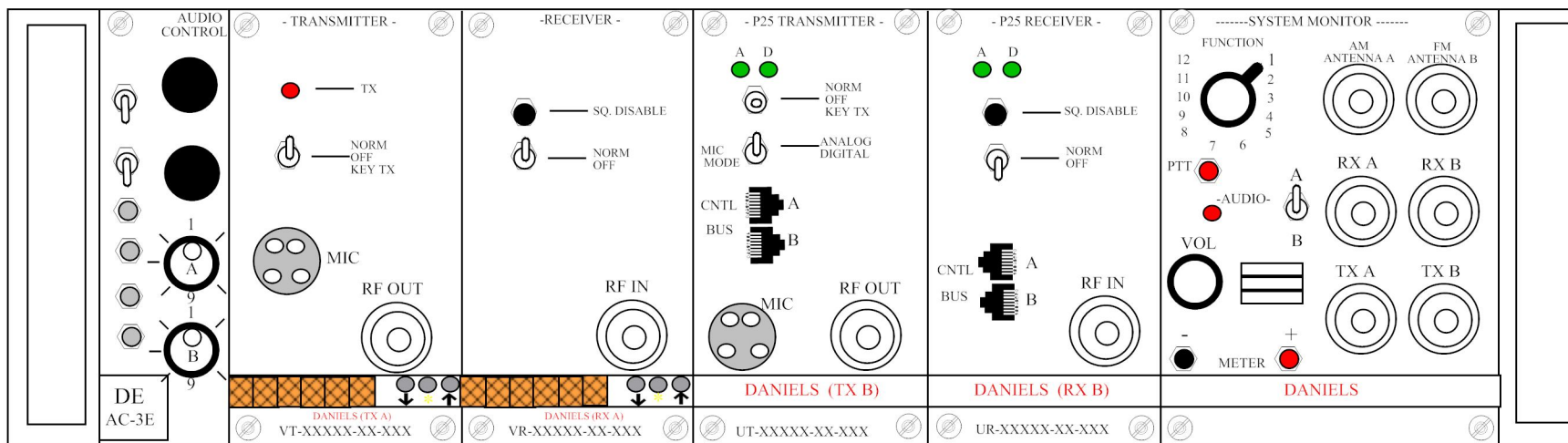
Close Up View  
Switch A, Switch B  
CI-RC-4L Card



National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Logistics Repeater (4248 - UHF Repeater Configuration)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011



# DANIELS AIRCRAFT LINK SWITCH SETTINGS (4370 - AIRCRAFT BASE CONFIGURATION)



## 4370 - AIRCRAFT BASE CONFIGURATION:

1. Keep both CTCSS switches located on the AC-3E module in the "OFF" (Down) position.
2. Keep power switches on the **TX A** and **RX A** in "NORM" position.
3. Keep power switches on the **TX B** and **RX B** in "OFF" position.
4. Keep the Audio Select Switch on System Monitor Module in the **A** position to activate the internal speaker, and place the rotary switch on the System Monitor to position # 1.

5. Select correct **AM** frequency for **TX A** and **RX A** using the 16 position rotary switch A on the AC-3E Module. (Top Rotary Switch, 16 Position Knob: 1-16)

**Note: For Special AM frequencies, select channel 16 on rotary switch A to manually program the AM TX and RX modules via the front panel. (Top Rotary Switch)**

6. Connect the Microphone to the "MIC" jack on **AM TX A**.

**Note: EXTERNAL Speaker may be used by connecting the speaker leads to the System Monitor "METER" jacks, observe correct polarity.**

Place rotary switch on the System Monitor to position # 1 for EXTERNAL Speaker ONLY.

**Note: Programming Authorized Special AM frequency into Channel 16: The Communications Duty Officer (CDO) will assign the appropriate AM Frequency issued by the FAA.**

1. Turn rotary Switch A (top rotary switch) on the Audio Control Module to Channel 16.
  2. Unlock the unit by pressing the "\*" button and, before the "Locked" display goes blank, press the "↓" button. The display should now show "Unlocked".
  3. Wait for the display to blank, then press either the "↑" or "↓" button to display the current programmed frequency.
  4. While the display is showing the frequency, press and hold either the "↑" or "↓" until the desired frequency is reached.
  5. Lock each unit by pressing the "\*" button and before the "Unlocked" display goes blank, press the "↑" button.
- The display should now show "Locked"

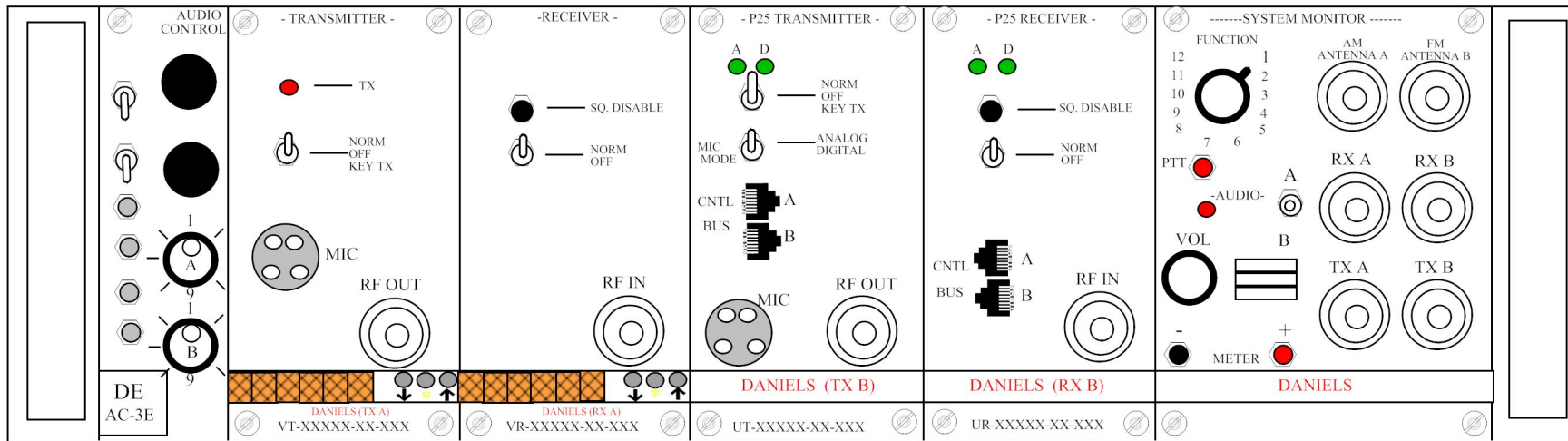
**Note: The AM transmitter and receiver modules must be individually programmed.**

The unit is now ready for base station operation.

National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Aircraft Link (4370 - Aircraft Base Configuration)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011



# DANIELS AIRCRAFT LINK SWITCH SETTINGS (4370 - AIRCRAFT LINK CONFIGURATION)



## 4370 - AIRCRAFT LINK CONFIGURATION:

1. Keep both CTCSS switches located on the AC-3 module in the "OFF" position.
2. Keep power switches on TX A, RX A, TX B, and RX B in the "NORM" position.
3. Keep the MIC MODE on TX B in the ANALOG position.
4. Keep A/B Audio Select Switch on the System Monitor Module to center position.
5. Select the correct assigned AM frequency for TX A and RX A using the 16 position rotary switch A on the AC-3E Module. (Top Rotary Switch, 16 position knob: 1-16)

**Note:** For Special AM frequencies, select channel 16 on rotary switch A to program the AM TX and RX modules. (Top Rotary Switch)

6. Select the correct assigned FM UHF Link frequency for TX B and RX B using the 16 position rotary switch B on the AC-3E Module. (Bottom Rotary Switch)

**Note:** The Communications Duty Officer (CDO) will assign the appropriate FM UHF Link Frequency. See A/C FM UHF Link Frequency List below

**Note:** Programming Authorized special AM frequency into Channel 16: The Communications Duty Officer (CDO) will assign the appropriate AM Frequency issued by the FAA.

1. Turn rotary Switch A (top rotary switch) on the Audio Control Module to Channel 16.
2. Unlock the unit by pressing the "\*" button and, before the "Locked" display goes blank, press the "↓" button. The display should now show "Unlocked".
3. Wait for the display to blank, then press either the "↓" or "↑" button to display the current programmed frequency.
4. While the display is showing the frequency, press and hold either the "↓" or "↑" button until the desired frequency is reached.
5. Lock each unit by pressing the "\*" button and before the "Unlocked" display goes blank, press the "↑" button.

**Note:** The AM transmitter and AM receiver modules must be individually programmed.

The unit is now ready for Link operation.

## Switch B - UHF Frequency Selection List (CDO will assign appropriate UHF Link Frequency)

Position 1 - A/C 1 Simplex	Position 8 - A/C 8 Simplex
Position 2 - A/C 2 Simplex	Position 9 - A/C 9 L8 Simplex
Position 3 - A/C 3 Simplex	Position 10 - A/C 10 L8 RPTR
Position 4 - A/C 4 Simplex	Position 11 - A/C 11 L9 Simplex
Position 5 - A/C 5 Simplex	Position 12 - A/C 12 L9 RPTR
Position 6 - A/C 6 Simplex	Position 13 - A/C 13 L10 Simplex
Position 7 - A/C 7 Simplex	Position 14 - A/C 14 L10 RPTR

National Interagency Fire Center National Interagency Incident Communications Division	
NIFC Switch Settings for Daniels Aircraft Link (4370 - Aircraft Link Configuration)	
Designed by:	NIICD
Drawn by:	NIICD/J. Lopez
Revised Date:	November, 2011