

F3400D/F52D Series Programming

BASIC PROGRAMMING: DIGITAL CHANNELS WITH SCANNING

Introduction

This tutorial describes how to program the F3400/F5400 and F52D series radios with a basic digital file composed of 3 digital channels, each with RAN codes and Scanning.

Note: No signaling or Individual Calls are programmed.

Prerequisites

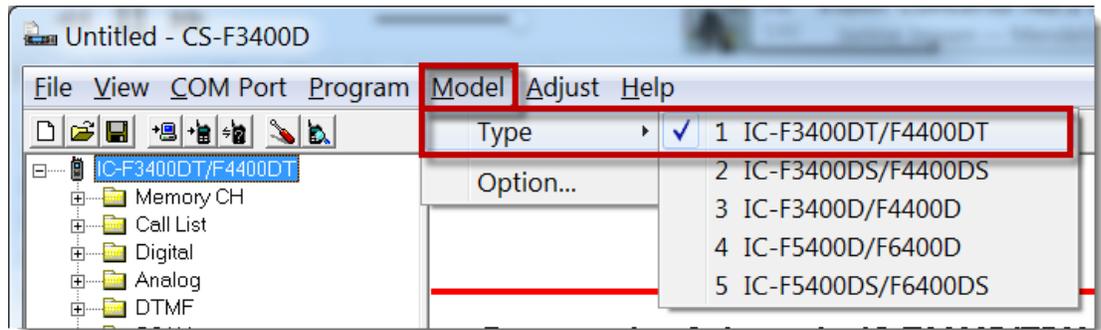
- Radio is connected to the computer with a cloning cable. USB A to micro B type, with matching driver or OPC-1862 (portables) or OPC- 2363 (Mobiles) with matching drivers
- Firmware and Software are updated to the latest version
- Windows® 7, 8.1, or 10 (32/64bit) operating system

Programming

The following procedures describe programming three Digital Channels with Scanning and no signaling.

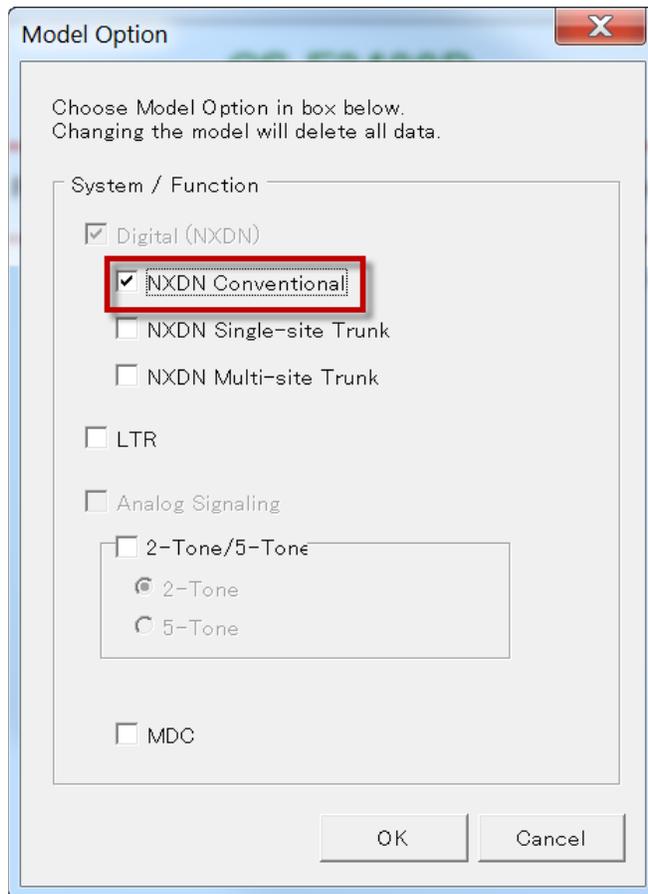
Note: There is no Model Type option (step 2) for the F52D series radios.

1. Open the CS-F3400D cloning software and go to **Model** in the Main Menu.



2. Assign the software to match the model radio being programmed.

3. In **Model Option**, disable all Options except **NXDN Conventional**.



4. Go to the **Zone Operation** window.

Zone Operation Window

Zone Operation (3984 Remaining)					
Zone	Text	Zone Type	Unit ID Type	Unit ID	Squelch Type
1	Digital Zone	Conventional	Zone	1234	RAN

5. In **Text**, enter a descriptive name for this zone.
6. Assign **Zone Type** as **Conventional**.
7. **Unit ID Type**:
 - **Own** - Uses 1 global ID for all zones as set in **Digital->Conventional->Own ID**.
 - **Zone** - Uses 1 ID for THIS zone. The ID is set in **Zone Operation->Unit ID**.
8. **Unit ID**: Used only when **Unit ID Type** is set as **Zone**. Enter this radio's ID when operating in this zone.
9. Set **Squelch Type** as **RAN** for this example. **SEL** would be appropriate if Talk Groups were different or if Selective Calling were used.
10. Go to the **Zone 1** window.

Zone 1 Window

CH	Atr	Inh	Text	CH Type	Frequency (MHz)			C.Tone		RAN	
					RX	TX	TX Inh	RX	TX	RX	TX
1- 1	AB		Fire Dpt	Digital	456.000000	<-				1	<-
1- 2			Police Dpt	Digital	457.000000	<-				2	<-
1- 3			Admin	Digital	458.000000	<-				3	<-

11. Enter the following settings:
 - **Frequency (MHz)** - Enter the 3 channels sets for these channels.
 - **RAN** - Enter applicable RAN code for each channel. Choices are from 0 to 63.
 - **CH Type** - Enter **Digital**.
 - **Text** - Enter descriptive text for this channel.

	Digital		Analog			Scan List
Auto reset	Bandwidth	Digital Profile	Bandwidth	Com-pander	System Profile	Scan List
m-B	VN	1: General	-	---	---	1
m-B	VN	1: General	-	---	---	1
m-B	VN	1: General	-	---	---	1

12. Set **Bandwidth** to **VN** (Very Narrow 6.25kHz) or **N** (Narrow 12.5kHz).

16. In **Scan List** in the **Zone 1** window, assign each channel as **1**.
17. In the **Scan -> Scan List** window, assign the characteristics desired for this scan group as determined by customer requirements. Set all unused Scan List groups to **Scan OFF** (in **Scan Type** field).
18. Go to the **Interface -> Key Assign -> Key** window.

Key Window



19. Double-click on **P1** and assign **P1** as the **Scan Start/Stop** key.
20. Set all other key assignments to Null to avoid confusion.
21. Go to **Rotary Encoder**.

Display Window

Key Assign - Display	
Display	
Opening Text	
Opening Vibration	OFF
Opening Beep	OFF
MR/Code Display	MR CH
Screen Saver Setting	
Screen Saver	ON
Text	Icom Inc.
Language	
Language Select	English
Settings	
Backlight	Auto
Brightness	4
Dimmer	0
LCD Mode	Day

22. Enter the following settings:

- **Backlight** - Set to preference.
 - **ON** for mobiles
 - **Auto** for portables. When the Display lights, power is being consumed. The Display will dim after 5 seconds of idle.
- **Brightness** – recommend set at **4**
- **Dimmer** – recommend set at **0** for portables, **4** for mobiles.

Menu Operation Window

Menu Operation				
Category List				
No.	English	Other	Icon	Sel
1				OFF
2				OFF
3				OFF
4				OFF
5				OFF
6				OFF
7				OFF
8				OFF
9				OFF
10				OFF

Since functionality for this simple file requires no screen use, all menu views are turned off in this procedure. Set **Sel** to **OFF** for each line.