



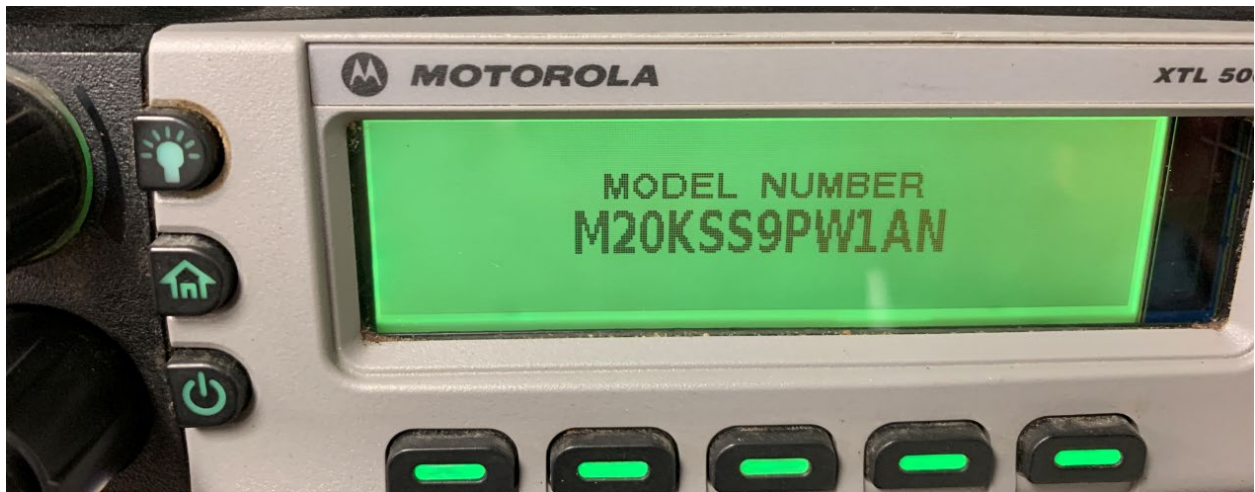
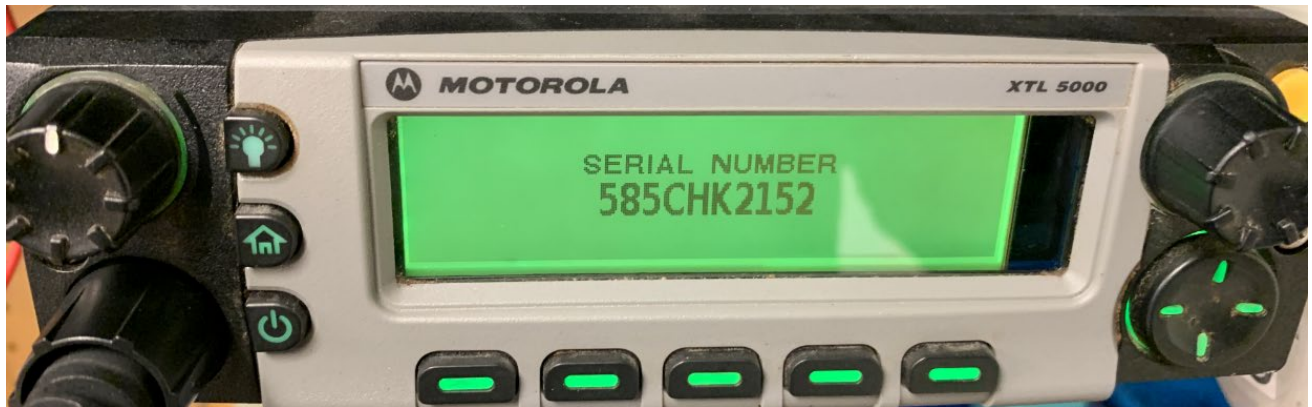
How to obtain specs from your radio to share with a vendor

To provide information to your radio vendor, you can use service mode to obtain the radio serial, model, and Flashcode without removing the radio from the console.

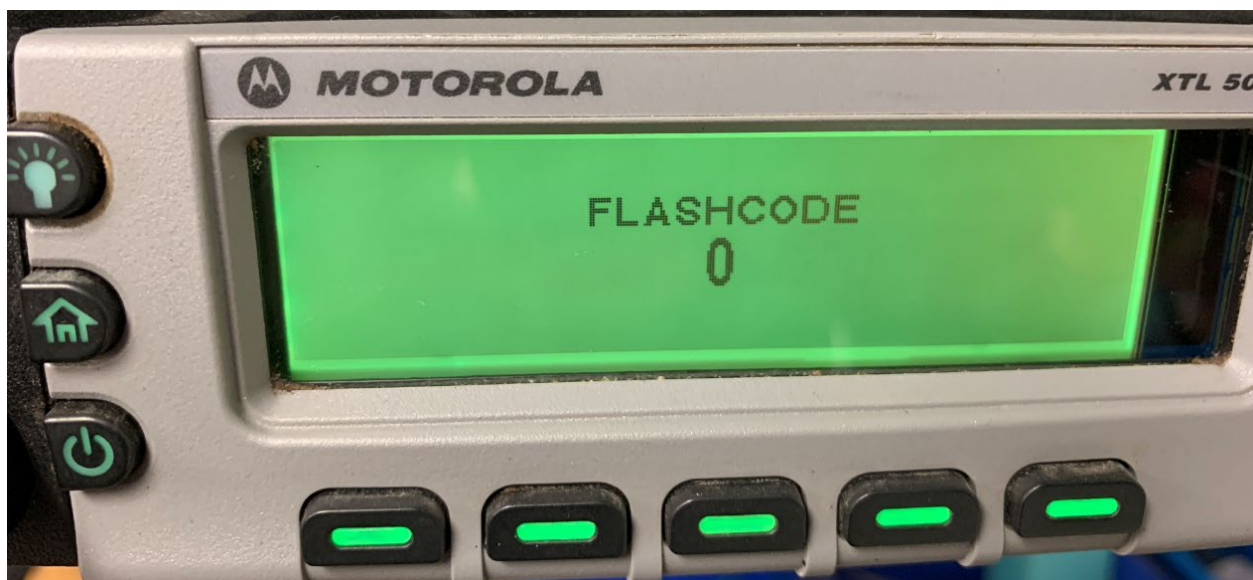
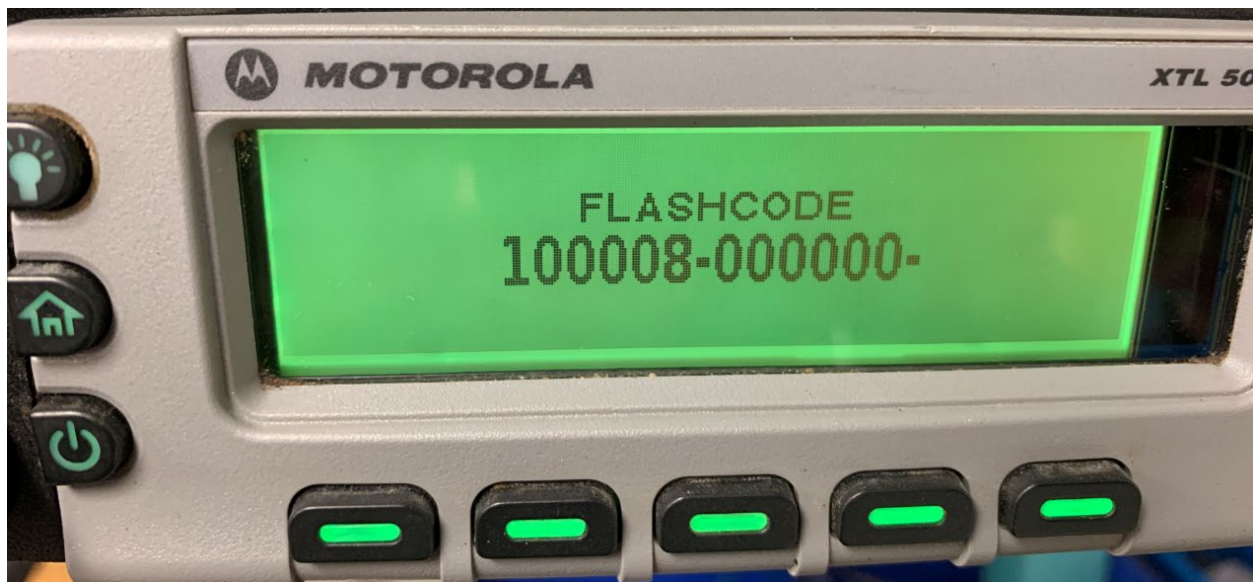
Turn the radio on and when the radio completes the startup process and reaches normal operation press the HOME button 5 times in succession within 10 seconds after power up. You will hear the radio chirp and immediately display the SERVICE screen below. If the radio doesn't chirp and enter service mode turn the radio off and try again.



Watch closely and consider taking a video or picture of the info with your phone, as it passes rather quickly.



The FLASHCODE will typically be displayed on two screens as shown below.



Your dealer can use the FLASHCODE info along with the radio model type to determine if it supports P25. In this case the M20KSS9PW1AN is an XTL5000 as displayed on the front of the control head. You can also use an online Flashcode Decoder tool to determine if your radio is P25 compatible.

<http://www.akardam.net/r/m/tools/fdecode.pl>

← → ↻ ⌂ Not secure | akardam.net/r/m/tools/fdecode.pl?do=decode ☆

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akardam.net Flashcode Decoder R05.03.02

« [Tools](#) | [Decoder for Smartphone Browsers](#) | [Encoder \(for Smartphone Browsers\)](#) » | Options list last updated: 07/13/2020

Instructions: Enter up to 4 flashcodes below. Select the applicable platform using the radio buttons below each flashcode. Press the "Decode Flashcodes" button.

Notes: As you select each platform, it will show you which flashcode formats are valid for that platform. The "d" characters represent the digits. The "c" character represents the checksum digit. Dashes are not required (but everything else is). Flashcodes are case sensitive!

Text marked with a dotted underline and colors like THIS or THIS or THIS shows helpful info when hovered over

MTSX		Astro		Astro25 Portables										Astro25 Mobiles										APX Portables										APX Mobiles									
MTS	MCS	Astro Saber	XTS 3000	Astro Spec	XTS 5000 & 4000	XTS 2500	XTS 1500	MT 1500	PR 1500	SSE 5000	XTL 5000	XTL 2500	XTL 1500	PM 1500	Astro Spec Plus	APX 8000	APX 7000	APX 7000 XE	APX 6000	APX 6000 BN	APX 4000	APX 3000	SRX 2200	SRX 2200 BN	APX 1000	APX 900	APX 8500	APX 6500 HP	APX 7500	APX 6500	APX 4500	TXM 2000	APX 1500										
1000080000000																																											

Valid formats: ddddd-d-ddddd-c

Valid formats: ddddd-d-ddddd-c

Valid formats: ddddd-d-ddddd-c

Valid formats: ddddd-d-ddddd-c

Valid formats: ddddd-d-ddddd-c

Valid formats: ddddd-d-ddddd-c

Decode Flashcodes Clear

Flashcode 1	Flashcode 2	Flashcode 3	Flashcode 4
XTL5000 <u>1000080000000</u>			
D1 B1 G806			G806 ASTRO IMBE Digital Operation
D6 B4 G51			G51 SmartZone Systems Operation

Report Build FC1 Report

Format: Decoded by the akardam.net Flashcode Decoder v5

Platform: XTL5000

Flashcode: 1000080000000

G806: ASTRO IMBE Digital Operation

G51: SmartZone Systems Operation

Plain Select Clear

Table Report Format: Option & Descriptions Together Build Table Report Table Report Select

Decoded by the akardam.net Flashcode Decoder v5

Flashcode 1	Flashcode 2	Flashcode 3	Flashcode 4
XTL5000			
1000080000000			
D1 B1	G806: ASTRO IMBE Digital Operation		
D6 B4	G51: SmartZone Systems Operation		

The mobile radio in this example indicates only “ASTRO IMBE Digital Operation” and “SmartZone Systems Operation” therefore, it is not P25 compatible.

Identifying Flashcode on Motorola portable radio



The above arrow indicates where to find the Flashcode on portable radios after removing battery.

MTSX		Astro		Astro25 Portables				Astro25 Mobiles				APX Portables				APX Mobiles																
MTS	MCS	Astro Saber	XTS 3000	Astro Spec	XTS 5000 & 4000	XTS 2500	MT 1500	PR 1500	SSE 5000	XTL 5000	XTL 2500	XTL 1500	PM 1500	Astro Spec Plus	APX 8000	APX 7000	APX 7000 XE	APX 6000	APX 6000 BN	APX 4000	APX 3000	SRX 2200	SRX 2200 BN	APX 1000	APX 900	APX 8500	APX 8500 HP	APX 7500	APX 6500	APX 4500	TXM 2000	APX 1500
5000080004800					Valid formats: dddddd-ddddd-c																											
					Valid formats: dddddd-ddddd-c																											
					Valid formats: dddddd-ddddd-c																											
					Valid formats: dddddd-ddddd-c																											
					Valid formats: dddddd-ddddd-c																											
					Valid formats: dddddd-ddddd-c																											

Decode Flashcodes Clear

	Flashcode 1	Flashcode 2	Flashcode 3	Flashcode 4
	XTL2500			
	<u>5000080004800</u>			
D1 B1	G806			G806 ASTRO IMBE Digital Operation
D1 B3	G114			G114 Enhanced Digital ID Display
D6 B4	G51			G51 SmartZone Systems Operation
D10 B3	G173			G173 SmartZone Omnilink MultiZone Operation
D11 B4	G361			G361 ASTRO 25 9600 Baud Trunking

Report Build FC1 Report

Format: Decoded by the akardam.net Flashcode Decoder v5
 Platform: XTL2500
 Flashcode: 5000080004800

Plain Select Clear

G806: ASTRO IMBE Digital Operation
 G114: Enhanced Digital ID Display
 G51: SmartZone Systems Operation
 G173: SmartZone Omnilink MultiZone Operation
 G361: ASTRO 25 9600 Baud Trunking

Table Report Format: Option & Descriptions Together Build Table Report Table F

	Flashcode 1	Flashcode 2	Flashcode 3	Flashcode 4
	XTL2500			
	5000080004800			
D1 B1	G806: ASTRO IMBE Digital Operation			
D1 B3	G114: Enhanced Digital ID Display			
D6 B4	G51: SmartZone Systems Operation			
D10 B3	G173: SmartZone Omnilink MultiZone Operation			
D11 B4	G361: ASTRO 25 9600 Baud Trunking			

The portable radio in the above example indicates “G361: ASTRO 25 Baud Trunking” therefore, it is a P25 compatible radio.

EF Johnson/Kenwood/Viking Radios



EF Johnson 5300 Mobile and 5100 Portable - Do not support P25

There are 2 easy ways to determine the EF Johnson/Kenwood/Viking radio models:



The above arrow identifies where to locate model information after battery removal.

Step # 1 - Look at the last numeric of the radios' model number.

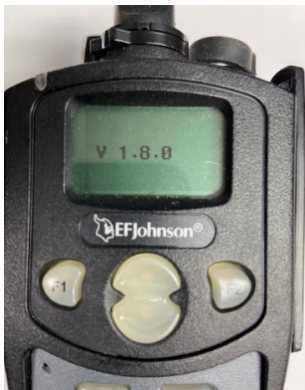
Examples:

- no numeric would be a series 1 radio = Non-SEM
- 2 would be a series 2 radio = SEM
- 3 would be a series 3 radio = UCM
- 4 would be a series 4 radio = X platform
- 6 would be a series 6 radio = ES
- 8 would be a series 8 radio = Viking

Step #2 - The radio will also display its firmware version during power up. The first numeric displayed is the model type.

Examples:

- 1.20.11 would be a series 1 radio
- 2.10.9 would be a series 2 radio
- 3.10.8 would be a series 3 radio
- 4.18.14 would be a series 4 radio
- 6.18.0 would be a series 6 radio
- 8.30.9 would be a series 8 radio



In the above examples, on the left is a Series 1 radio with a firmware version of 8.8 while the radio on the right is a Series 8 radio with a firmware version of 30.9.

There are several models of EF Johnson/Kenwood/Viking radios in service in South Dakota that are already end of life or will be when the State of South Dakota moves to P25 Trunking. If your radios are not P25 ready **TODAY**, the possibility of them being upgradable decreases with time.

These models affected are as follows:

1. Series 1 – 1.XX.XX Firmware displays during power up.
2. Series 2– 2.XX.XX Firmware displays during power up.
3. Series 3– 3.XX.XX Firmware displays during power up.
4. Series 4– 4.XX.XX Firmware displays during power up.
5. Series 6– 6.XX.XX Firmware displays during power up.

Additional Questions? Please contact Trent Nincehelser at 605-773-3860 – Trent.Nincehelser@state.sd.us, or Todd Dravland (SWIC) at 605-773-4635 – todd.dravland@state.sd.us