Updating Integrated Displays for Marksman™ Compatibility

Tools Needed

3) Empty & Formatted USB Flash Drives

1) Mobile Device with Field Scout (v.1.6.1299 or later)

Prepare USB Drives

Formatting

- Connect the USB drive to a Computer (PC) or Laptop.

- On Windows open "File Explorer" and from the "This PC" folder click on the USB drive.

- Right click on the selected USB drive and choose **"Format"**.

- Choose the "File System" as "FAT32"

- Choose the "Allocation Unit Size" of "4096 bytes"

- Click on "**Quick Format**"

- Click on "**Start**" button.

- Wait for the format to be completed, this will take several minutes depending on the size of the USB drive.

- When the format process is complete click the "**Close**" button.

Note: **Incorrect formatting will prevent the display software update.**

Download the following zipped files from https://www.subsite.com/software/software-updates/ to PC

- Display Reset
- Display Check
- Integrated Display v4.0 or current Files

Display Reset

- Insert USB drive in PC

- In File Explorer, double click on Display Reset zipped file.

 factory_reset.zip
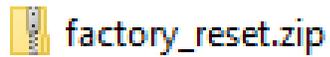
- Select Extract all from the tool bar.
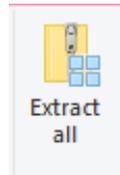
Extract
all

Select Browse and choose USB Drive destination. USB location drive number will vary depending on computer system.

Select a Destination and Extract Files

Files will be extracted to this folder:

ining Information\Marksman\C7 Software\Zipped C7\factory_reset\factory_reset   Browse...

☑ Show extracted files when complete

USB Drive (G:)

- Make sure files appear as shown in screen capture below. Mark USB drive as Display Factory Reset.

USB Drive (G:)

Name
cc-auto.sh
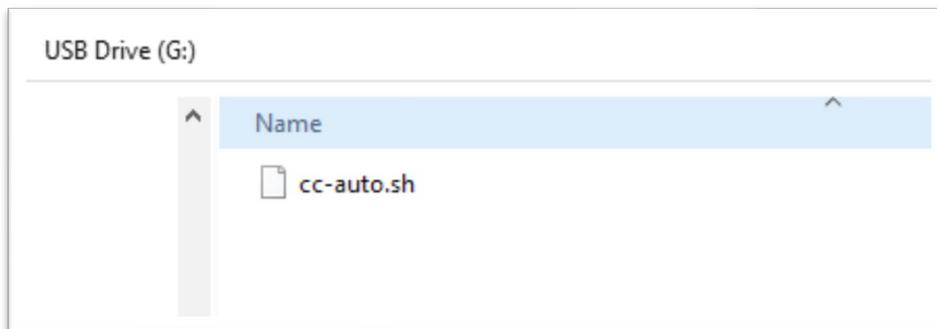
Display Check

Insert USB drive in PC – Use the same procedure as above to extract files to USB drive. Make sure files appear as shown in screen capture below. Mark USB drive as Display Checker.
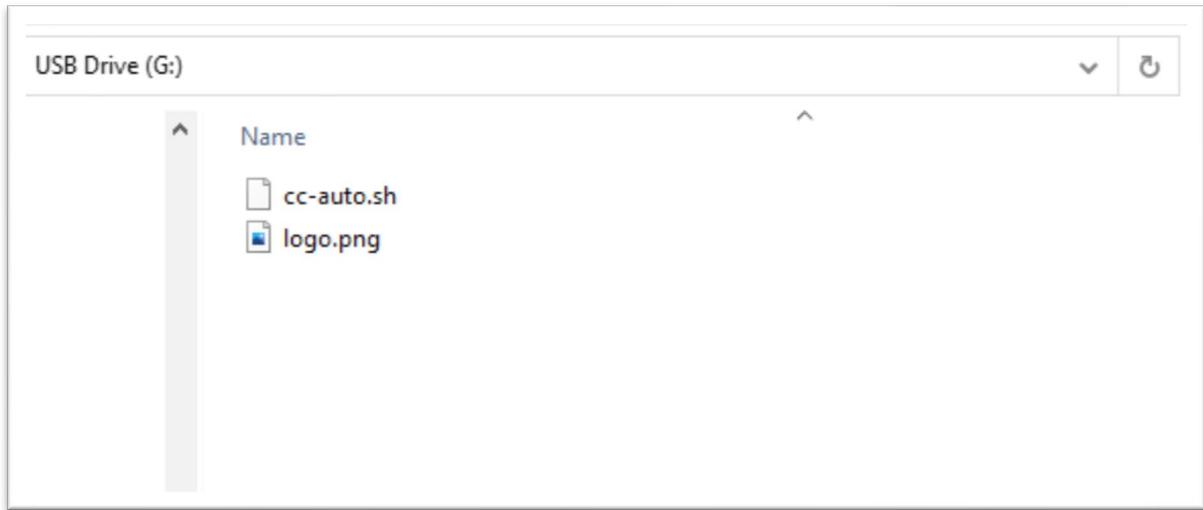
Integrated Display 4.0 or later files

Insert USB drive in PC – Use the same procedure as above to extract files to USB drive. Make sure files appear similar as shown in screen capture below. Mark USB drive as Integrated Display v4.0 or current version.

JT24/JT32 machine controller software is compatible with display/CAN bridge updates. If updating integrated displays on these drills, then you can skip the JT40 information below.

Before updating JT40, ensure Main Controller software is at version 1.2.38 or later and Pipe Controller is at version 1.1.7 or later. If not, have service technician update controllers via the BT Software Service Tool software before performing updates to integrated display and CAN bridge.

1. **How to check JT40 machine controls software:**
    a. The main controller should be at least V1.2.38, and the pipe controller should be at least 1.1.7. Note: this should only affect JT40 drills released in 2017.
        i. Access the menu on the top display by pressing a button

ii. Select the bottom right icon

1.

iv. Look within the SW Version column for "JT40 PIPE" and "JT40 MAIN" and compare the corresponding versions to the minimum required.

1.

	ECU Name	SA	SW Version	BL Version
1	Engine Display	40	C7_3.17	BootLoaderV
2	Multifunction	129	3JPR1089-1	
3	KeyPad	128	3KPR1050-4	
4	Engine	0	5317106	32001602
5	Pipe	220	JT40 PIPE v1.1.9	60PV4_V0,0,73
6	ESIO	224	ESIDv4 v01.05.00	ESIDv4V1,02
7	Cab	49	JT40Cab v01.01.05	60P30A20DV1,03
8	Main	219	JT40 MAIN v1.2.47	60PV4_V0,0,76

JT40 PIPE v1.1.9

JT40 MAIN v1.2.47

a. If it displays v1.2.38 or greater, it is compatible.

4. If it displays older versions, have a qualified service technician update the software.

Updating Display and CAN bridge

Step One – Identify Correct Display

Start drill unit to power up displays. Use "Display Checker" USB drive to identify correct display. You will be updating the lower display. Insert USB drive into USB port. (lower port on JT24, right side port on JT32 and JT40) Should hear variable pitch tone and Subsite logo will appear on display. If this appears on the lower display, proceed to Step Two. If Subsite appears on upper display, then try the other USB port.

Step Two – Clear Current Program on Display

Insert Display Reset USB Drive into port for lower display. Wait for DW logo to appear after instructions to remove flash drive. Wait for display to power back on. (May need to cycle power) You will see default Maximatecc screen appear.

Step Three – Load New Program on Display

Insert USB Drive with Integrated C7 v4.0 or later software into port for lower display. Should hear a variable pitch tone and Subsite logo will appear on the screen.
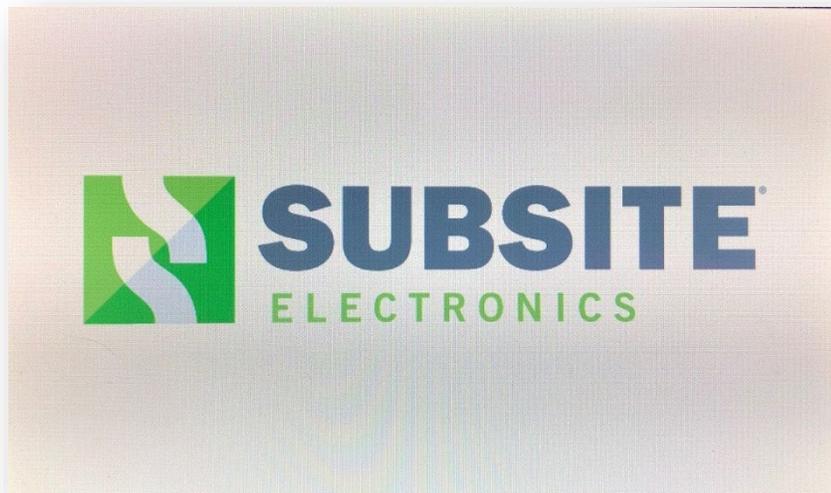
Wait for beep after instructions to remove flash drive appears. Display will reboot and power back on.

Step Four – Update CAN bridge

A) Using Field Scout, version 1.6.1299 or later,
   a. Connect mobile device to CAN/Display. iOS devices open "Settings", then "Bluetooth" and select CD_xxxx.
   b. Open Field Scout, select "Connect" and then choose display CD_xxxx. Popup should appear asking to update unit.
   c. Select "Yes". If no popup, then tap on purple + action button. Choose Update and follow instructions on screen.
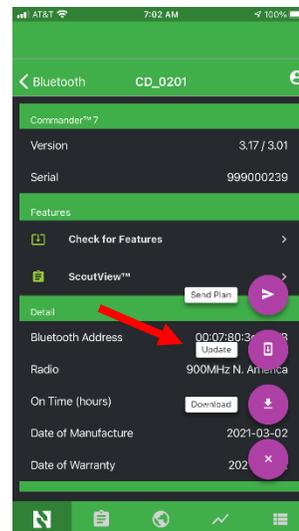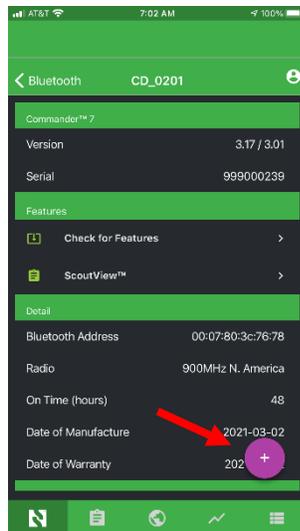
Check Info/About screen to ensure updates were successful. Integrated display in now ready for use with Marksman+ and TK Recon™ series trackers.