

**BILL OF MATERIALS**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	1050.00019.BL	BOOTLOADER, CBS-2100 XTS	0
2	1050.00019.FW	FIRMWARE, CBS-2100 XTS	0

**SOFTWARE = FIRMWARE + BOOTLOADER**

SOFTWARE INSTALLATION ON CBS-2100 CONTROL BOARD 1051.00020.00 OR UNIT USING AN SD-CARD:

- OBTAIN A BLANK, FORMATTED **SD-CARD** GREATER THAN 1 GB
- SKIP THE FOLLOWING STEP IF THE DESIRED **BOOTLOADER** IS ALREADY INSTALLED ON PCB **1051.00020.00**
  - COPY **4** FILES SPECIFIED IN **1050.00019.BL** ON TO THE SD-CARD
- COPY THE **1** FILE SPECIFIED IN **1050.00019.FW** ON TO THE SD-CARD
- CHECK INTEGRITY OF FILES ON SD-CARD BY COMPUTING MD5 CHECKSUM CODE AND VERIFYING THE MD5 CHECKSUM CODE SPECIFIED IN **1050.00019.FW** AND **1050.00019.BL**
- MD5 CHECKSUM CODE TOOL AND INSTRUCTIONS ARE INCLUDED IN THE DIRECTORY SPECIFIED IN **1050.00019.FW**
- POWER OFF UNIT
- INSERT SD-CARD INTO SD-CARD SLOT ON UNIT
- POWER ON UNIT
- UNIT WILL BE AUTOMATICALLY UPDATED
- WAIT UNTIL MESSAGE INDICATING SD-CARD SHOULD BE REMOVED
- REMOVE SD-CARD
- UNIT WILL REBOOT, IF NOT TURN POWER OFF, THEN TURN POWER ON
- CHECK SOFTWARE REVISION ON SCREEN WHICH IS VISIBLE FOR 3 SECONDS AFTER REBOOT, IT SHOULD MATCH THE VERSIONS SPECIFIED IN **1050.00019.FW** AND **1050.00019.BL**
- REPEAT PROCESS IF NOT PROGRAMMED CORRECTLY

SOFTWARE INSTALLATION ON TO CBS-2100 CONTROL BOARD 1051.00020.00 DURING PCB ASSEMBLY USING SWD CONNECTOR AND A ST-LINK/V2 PROGRAMMER OR USING SPECIALIZED EQUIPMENT TO INSTALL FIRMWARE DIRECTLY ON TO MICROPROCESSOR STM 32F103

- OBTAIN INTEL HEX FORMAT FIRMWARE FILE SPECIFIED IN **1050.00019.FW**
- CHECK INTEGRITY OF FILE BY VERIFYING THE MD5 CHECKSUM CODE SPECIFIED IN **1050.00019.FW**
  - MD5 CHECKSUM CODE TOOL AND INSTRUCTIONS ARE INCLUDED IN THE DIRECTORY SPECIFIED IN **1050.00019.FW**
- PROGRAM INTEL HEX FORMAT FIRMWARE FILE ON TO DEVICE USING DESIRED METHOD AS INDICATED ABOVE
  - KEEP ALL PROGRAMMING FUSES INTACT
  - CHECK PROGRAMMED CHECKSUM TO VERIFY PROGRAMMING AS SPECIFIED IN **1050.00019.FW**

**REVISIONS**

REV	DESCRIPTION	DATE	APPROVED
A	INSTRUCTIONS FOR INSTALLING FIRMWARE ON TO CBS-2100 CONTROL BOARD 1051.00020.00	1/30/17	RH

CODE & DOCUMENTATION DIRECTORY:  
 \\fetco-file\Software\Firmware\_Releases\1051.00020.00

NOTES:



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# SOFTWARE INSTALLATION, CBS-2100 XTS

CREATED BY RICHARD HOPPEL	DRAWN BY RICHARD HOPPEL	SIZE <b>A</b>	DATE 1/17/2017	DWG NO <b>1108.00035.00</b>	REV <b>A</b>
FILENAME 1108.00035.00.VSDX		SCALE 1 : 1	SHEET 1 OF 1		