



SERVICE INFORMATION LETTER (SIL)

Microtech III Software Update Procedure

SIL Number: SIL-ALL-19-002 Rev D
Date: February 11, 2026
Originator: James Egan, Technical Response Center
Supersedes: SIL-ALL-19-002 Rev C

FOR INTERNAL AND EXTERNAL PURPOSE

The purpose of this SIL is to illustrate steps required to update the MicroTech III controller or MT4 with MTIII-converted codes (MTIII software adapted for the MT4 platform) application software and firmware

Tools required:

1. 3/64" (1 mm) Allen Key
2. Flat head screw driver to open control panel door
3. SD memory card no larger than 2GB for firmware less than 8.46 or RTU code ending in 7306 and older ([Click Here to Purchase](#))
4. SD memory card no larger than 8GB formatted to FAT32 for firmware greater than 8.46 Or DPS code ending in 8200-8207 or RTU code ending in 7307-7509 ([Click Here to Purchase](#))
5. SD memory card no larger than 32GB formatted to FAT32 for firmware 10.36 or greater DPS code ending in 8208 and newer or RTU code ending in 7510 and newer ([Click Here to Purchase](#))

Note – If the controller has a BSP version older than 8.40 or the APP version is earlier than 2506017300 contact Daikin Applied Technical Response group for support.

Notes:

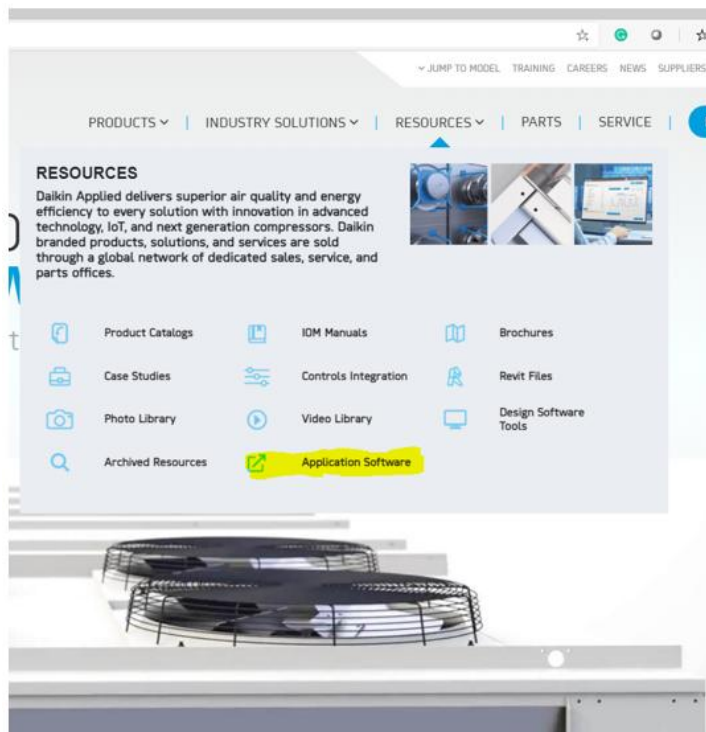
- Follow all lock-out tag-out procedures to minimize risk to yourself and/or the equipment during this procedure.
- Always wear appropriate levels of PPE governed by the hazards which are present.



Step-by-step Procedure

Step 1: Preparing the SD card

1. A brief instructional video to assist with this procedure is available at the following link
[MicroTech III - 8. Preparing the SD Card - Product Training Videos - Service](#)
2. To download the software code files online, navigate to
 - <http://www.daikinapplied.com>
3. Click on the Resources Tab. Then scroll down and click on Application Software



4. Scroll down to find the appropriate software version to download and save it to the Desktop
 - MTIII software codes
 - 2506017xxx Application Software for Maverick® II (MPS), RoofPak®, and Self Contained (SWP) & (SWT) units with MicroTech® III Controller
 - 2506018xxx Application Software for Rebel (DPS) with MicroTech® III Controller.
 - 2506019xxx Application Software for Refrigeration Only MicroTech® III Controls Rebel (DPS).
 - The MTIII-converted codes (MTIII software adapted for the MT4 platform)
 - 2506038xxx Application Software for Maverick® II – (MPS), RoofPak® (RPS) – (RDT) – (RFS) (RAH) – (RDS), and Self Contained (SWP)-(SWT) units with MicroTech® 4 Controller
 - 2506039xxx Application Software for Rebel® DPS and Rebel DPS with Refrigeration Only MicroTech® 4 Controls and R410A

Note: (XXX) changes as the software versions are revised for the respective product lines.

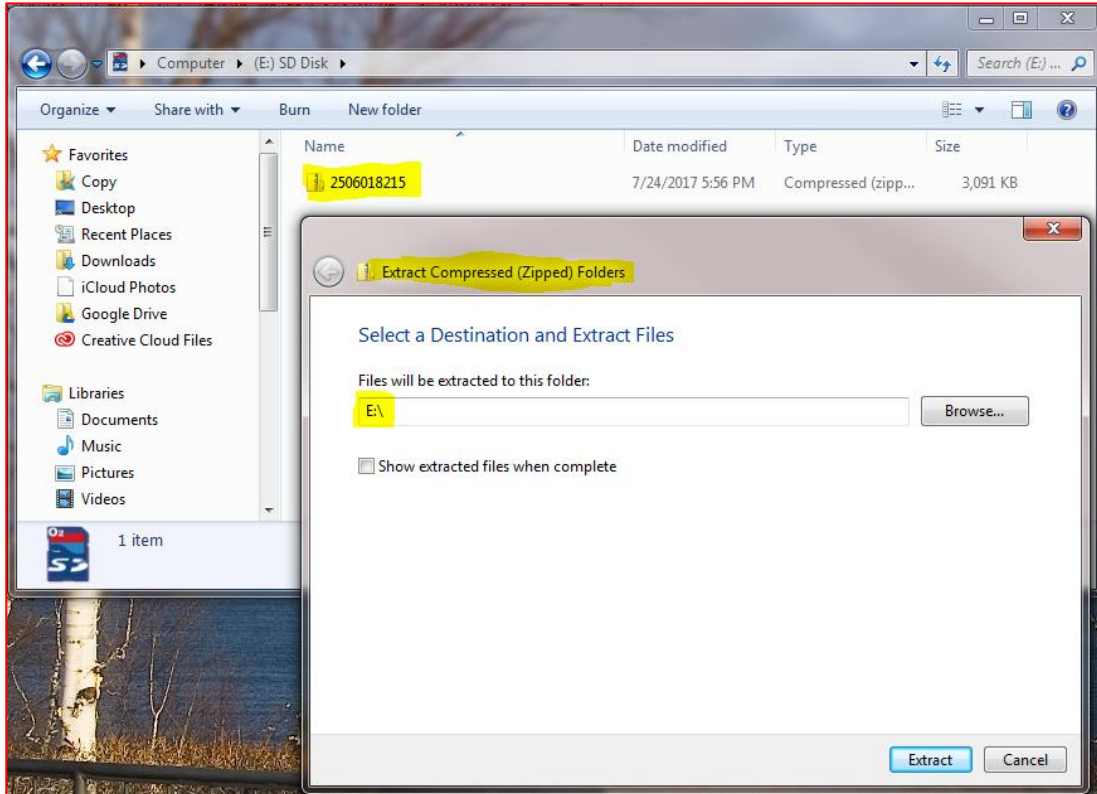
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5. Drag the zip file to the freshly formatted SD card and extract it to the root directory of the SD card. The four update files shown in step 6 **cannot** be within a file folder. See the picture below as an example of where the zip file resides on the SD card (E:\) directory

Note: Every computer will have a different drive letter designation for the SD card. The root directory represents the first location that appears when opening the SD card, since the Microtech III controller cannot see files from any folders. Zip file names would change as mentioned in step 3 once new software versions are released.



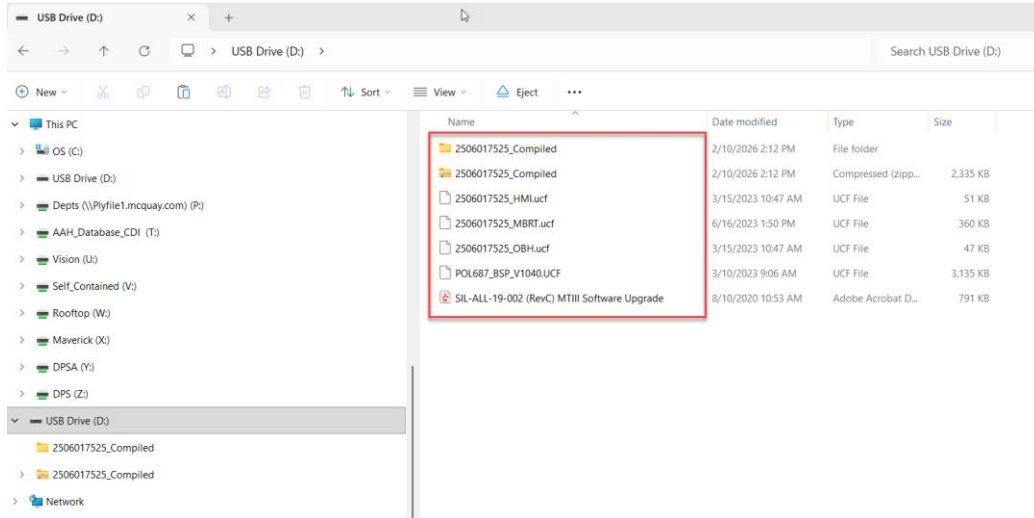
6. Once all the files are extracted, there will be a total of 7 - 9 files appearing on the SD card. The total file count can change with new software revisions. The list below shows 4-5 critical files needed for a software download.

- HMI.ucf • MBRT.ucf • OBH.ucf • POL687.ucf • POL687.hex *(omitted after 513 and 214 codes)*

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7. In some cases, you will need to copy the files out of the unzipped file and paste them into the root directory. Complete list of files, including all critical ones shown below



8. This completes the steps of preparing the SD card for the download. The SD card can now be inserted into the Microtech controller.

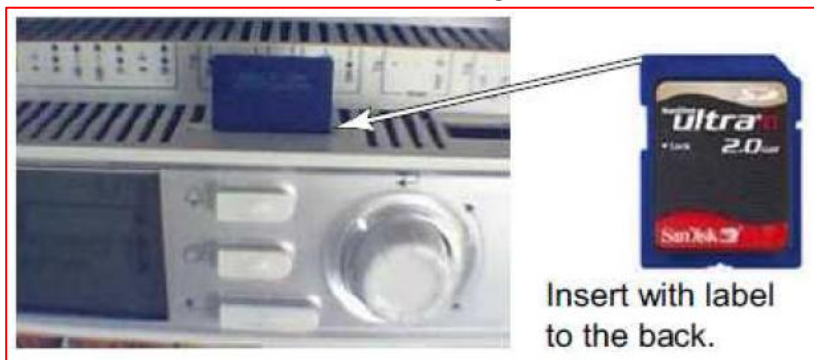
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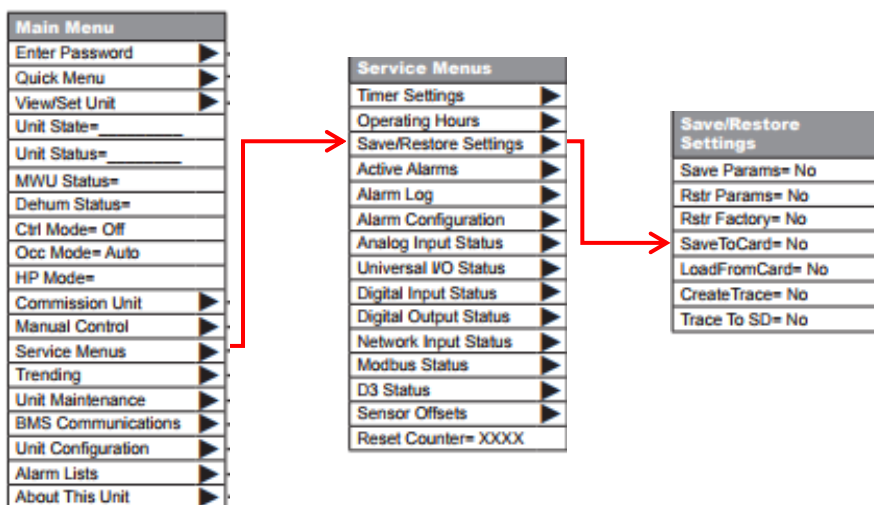
Step 2: Saving Parameters to an SD Card

Note: DO NOT save parameters if the controller experienced an anomaly in its operation and skip to the “Download Software to the Controller” section of this SIL

1. A brief instructional video to assist with this procedure is available at the following link [MicroTech III - 9. Saving Parameters to an SD Card - Product Training Videos - Service](#)
2. Enter the level 2 password 6363.
3. From the Main Menu, **set the Control Mode to Off.**
4. Insert the SD memory card into the controller’s memory card slot.
 - The label on the card should be facing to the rear, toward the controller.



5. Save the existing configuration and parameters to the memory card.
 - From the main menu, select Service Menus and then Save/Restore Settings
 - Set SaveToCard option to “YES” and then press the enter button. Wait until “Yes” reverts to “No”



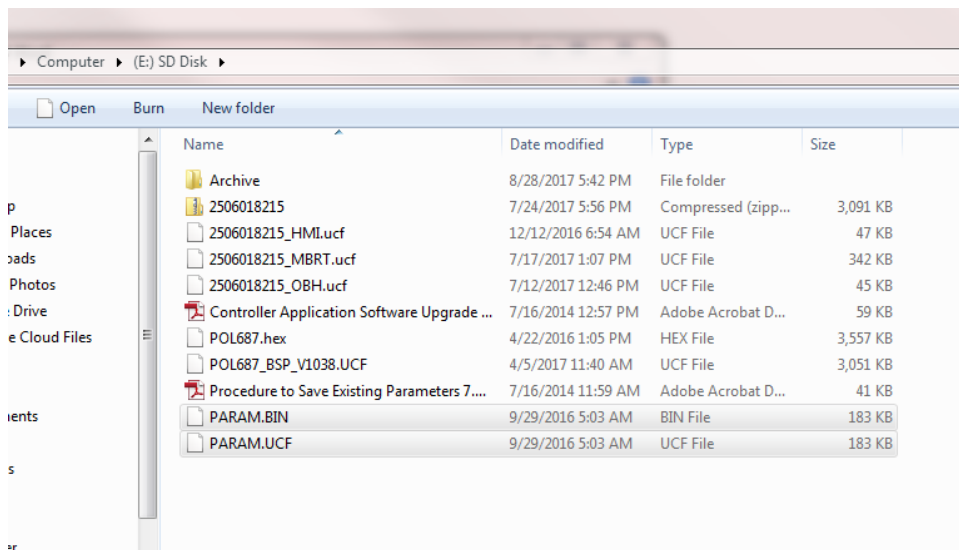
6. Remove the SD card from the controller and insert the SD card into the laptop.
7. Verify the parameter files (Param.bin & Param.ucf) save and their files sizes are larger than 100KB

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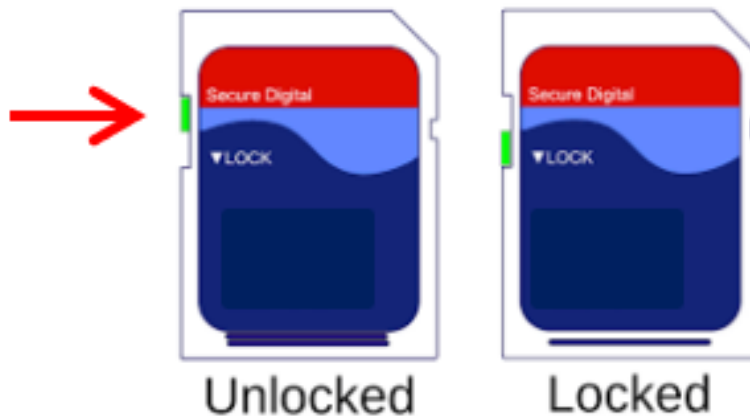
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8. If the param files sizes are less than the 100KB, then repeat step 4.



9. If the param files did not save, then check the SD card lock or try different SD card



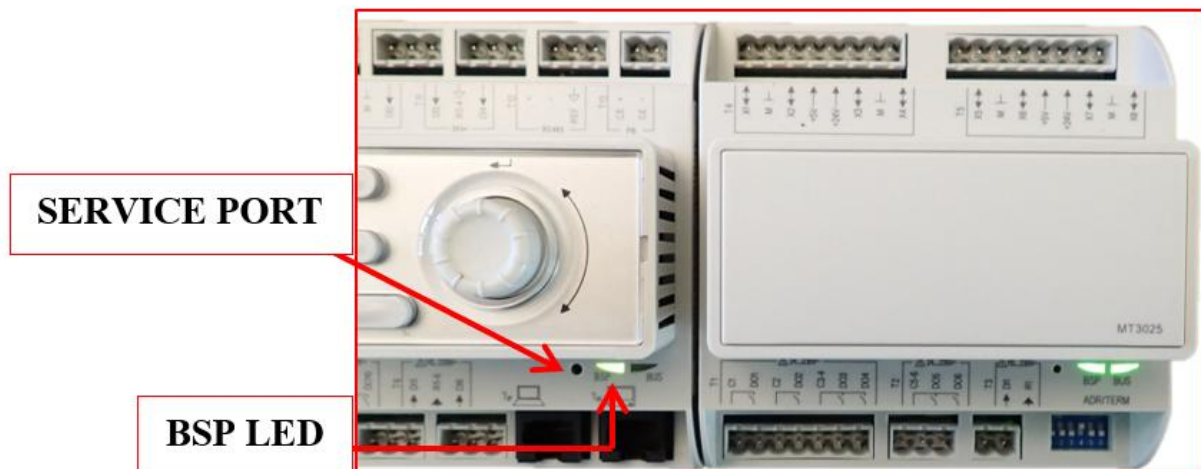
10. This completes saving parameters to the SD card

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Step 3: Downloading Software to the Controller

1. A brief instructional video to assist with this procedure is available at the following link [MicroTech III - 10. Updating Code - Product Training Videos - Service](#)
2. Enter the level 2 password 6363
3. From the Main Menu, **set the Control Mode to OFF**
4. Power the controller off and wait 90 seconds
5. With power off, unplug the communication module wiring plug, if equipped, from the comm module and the Modbus communication plug from the controller, before applying power to the Microtech controller
6. Make sure that all communication modules that need to be updated are connected
7. Insert the end of the 3/64" Allen Key or similar tool in the service port on the controller and hold the service button depressed (the service button will "click" once depressed)



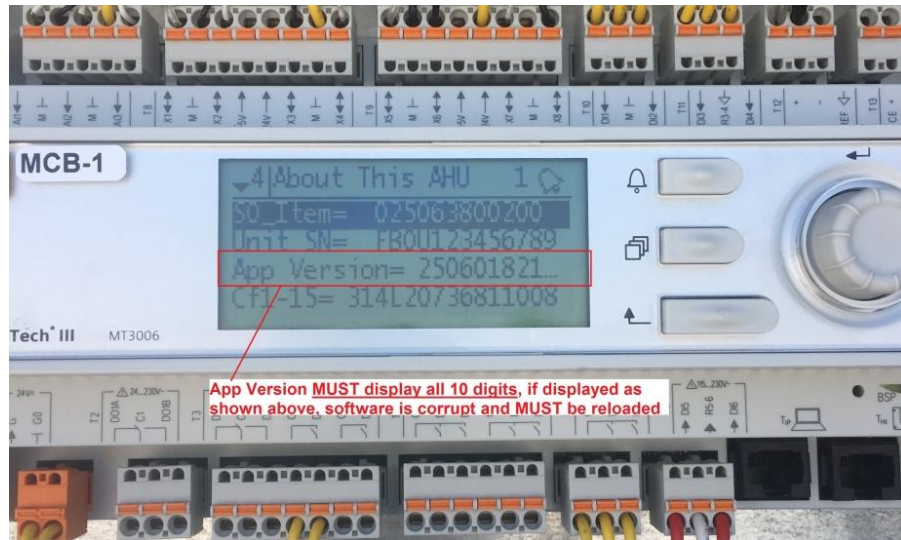
8. While holding the service button depressed, apply power to the controller
9. Continue depressing the service button and observe that the BSP LED begins to flash between red and green.
10. Release the service button after the flashing red/green sequence lasts for 3 or more cycles
 - On MT4 with MTIII-converted codes (MTIII software adapted for the MT4 platform) Release the service button after the upgrade view screen menu displays, and the controller upgrade status changes to active.
11. When the BSP LEDs have stopped flashing between red and green, ensure the BSP LED is amber
 - IF BSP LED is OFF, repeat the download process again after removing power from the controller for 90 seconds.

Note: Updating from version 8.xx BSP to 10.xx BSP firmware will require repeating the download process twice. During some software downloads, the controller display may flash blue.
12. Cycle power to the controller after a solid amber BSP LED is present.
 - On MT4 with MTIII-converted codes (MTIII software adapted for the MT4 platform) after a solid amber BSP LED is present, and all statuses are finished.

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13. From the Main Menu scroll down to About this AHU and observe the APP version shows the same value as the zip file originally downloaded (2506017xxx or 8xxx).
14. If APP version appears as shown, you will need to repeat steps above until APP version displays ALL 10 digits completely



15. Power off the controller and reconnect the communication module wiring plug, if equipped, and the Modbus communication plug from the controller, before repowering the Microtech controller.

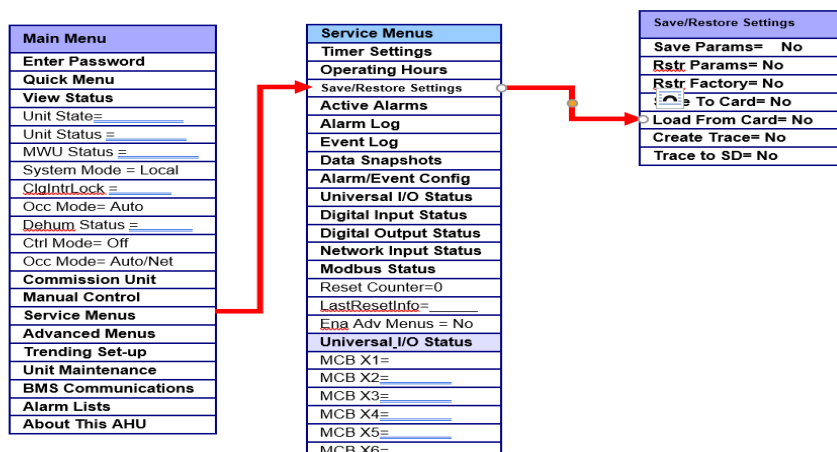
Step 4: Restoring Parameters to the Controller

1. A brief instructional video to assist with this procedure is available at the following link [MicroTech III - 12. Unit Configuration String - Product Training Videos - Service](#)
2. Make sure the SD memory card is still within the controller's memory card slot.
3. Enter the level 2 password 6363
4. From the Main Menu, select the Service Menus, then Save/Restore Settings
5. Set the LoadFromCard parameter to Yes, and press the enter button
 - The controller will reset twice but may perform up to three resets if a communication module is installed

Note: On DPS units with ECM fans, the controller will ask to confirm RPM value per the site's air balance report or design selection. Select YES once the proper RPM is entered to have the controller automatically apply changes and reset again.

- Wait 10 seconds after the Main Menu appears before proceeding

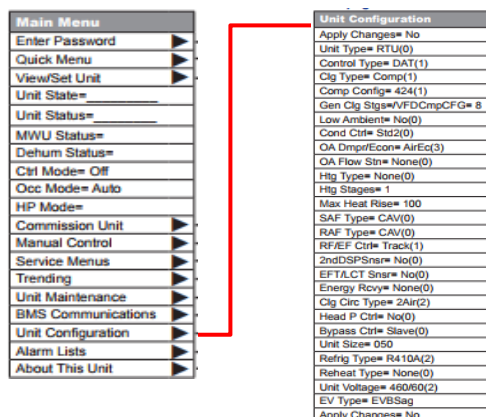
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- From the Main Menu scroll down to About This AHU and observe the APP version has no brackets “..]” at the end. If a square bracket appears, then the parameter restore process failed and needs to be repeated
- Once the restore process is complete, remove the SD memory card by momentarily pushing it in and releasing to retract.
- This completes the parameter restore from SD card process

Step 5: Manually Programming the Unit Configuration

- A brief instructional video to assist with this procedure is available at the following link [MicroTech III - 12. Unit Configuration String - Product Training Videos - Service](#)
- If a Save and Restore was not performed, then set up the unit according to the software configuration sticker on the unit door
 - Description of each configurator is shown under “Unit Configuration Menu” list below
 - OM 920 also contains the unit configuration menu
- Enter the Level 2 Password.
- From the Main Menu select Unit Configuration.
- Scroll through each option within the Unit Configuration menu, changing any parameters not matching the software configuration sticker on the door.



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6. Once all the values under the Unit Configuration menu are confirmed, set the Apply Changes parameter to Yes and press the enter button.
7. The controller will perform an automatic reset
8. If the controller did not reset then verify the APP version for an error as mentioned under the “Restore parameters to the controller” section, step 4.
9. This completes the manual programming process.
10. Proceed with setting up individual setting to commission the unit as required for the application.

UNIT CONFIGURATION

Configuration Code Position	Description	Values (Default in Bold)	Special Condition	RTU	MPS	DPS	DPS_H	SCU
1	Unit Type	0=Applied Rooftop (RTU) 1=Self-Contained (SCU) 2=Commercial Rooftop (MPS) 3=Rebel Cool Only (DPS/DAH) 4=Rebel Heat Pump (DPS_H)		•	•	•	•	•
2	Control Type	0=Zone Control 1=DAT Control 2=1ZoneVAV 3=RefOnly		•	•	•	•	•
3	Cooling Type	0 = None 1=Standard Compressorized Clg 2=Chilled Water 3=F&BP 4=Variable Comp Circuit 1 5=Variable Comp Circuit 2 6=VRV 7=NA 8=NA 9=Digital Comp 1 Circuit 10=Digital Comp 2 Circuits		•	•	•	•	•
4	Compressorized Cooling Configuration	0=None 1=Generic Condenser 2=2Cmp/2Circ/3Stg 3=3Cmp/2Circ/4StgOrVar (Var used for initial MPS026, 030&035 release) 4=2Cmp/2Circ/2or6StgOrVar (6 stg if 7=2,3,4or5) 5=3Cmp/3Circ/3Stg_NoWRV 6=3Cmp/3Circ/3Stg_WRV 7=4Cmp/2Circ/4StgOrVar 8=4Cmp/4Circ/4Stg_NoWRV 9=4Cmp/4Circ/4Stg_WRV A=6Cmp/2Circ/6StgOrVar B=6Cmp/6Circ/6Stg_NoWRV C=6Cmp/6Circ/6Stg_WRV D=3Cmp/2Circ/5StgOrVar E=4Cmp/2Circ/5or8StgOrVar (Var used for initial MPS040) (8 stg if 7=2,3,4or5)		•	•	•	•	•

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) F=8Cmp/4Circ/8Stg G=8Cmp/8Circ/8Stg H=6Cmp/3Circ/6Stg I=Not Used J=3 Cmp/3Circ/4Stg K=Spare L=1Var/1Circ M=Var/1STD/1Circ						
5	Generic Condenser Stages	1 – 8 Stages (default = 8)/		•	• (if 4=4, 5or 6)	• (if 4=4, 5or 6)		
6	Low Ambient	0 = No 1 = Yes	This position currently has no effect on unit operation.					
7	Condenser Control	0=Std Method 1 1=Std Method 2 2=Evap ABB 3=Evap MD2 4=Evap MD3 5=Evap DF 6=Not Used 7=EBM 8=INV 9=INV w/MicroC OA Coil A=Nidec		•	•	•	•	
8	Damper Type	0=None 1=Single Position 30% 2=Single Position 100% 3=Economizer Airside 4=Economizer Waterside 5=100%OA_D3 6=AirEcon_D3 7=30%_D3 8=EconoAirsideFDD 9=EconFDDD3	Values 1, 2, 5 & 7 only apply if Position 1 = 0 (RTU), 2 (MPS), 3 or 4 (DPS) Value 4 only applies if Position 1 = 1 (SCU)	•	•	•	•	•
9	OA Flow Station	0=None 1=DF_015-030 (800) 2=DF_036-042 (802) 3=DF_045-075 (047) 4=DF_080-135 (077) 5=Generic Flow Station 6=Generic Flow Station w/CO2		•	•	•	•	•
10	Heating Type	0=None 1=F&BP Control 2=Staged 3=Modulated Gas, 3-1 4=Modulated Gas 20-1		•	•	•	•	•

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		5=Steam or Hot Water 6=SCR Electric 7=MPSLoGas 8=MPSHiGas						
11	Max Heating Stages	1-8 Stages (Default = 1)		•	•	•	•	•
12, 13, 14	Max Heat Rise	Three Digits (Default = 100)		•	•	•	•	•
15	Supply Fan Type	0=Constant Volume 1=VFD/ABB_BD 2=VFD/DF_BD 3=VFD/MD2_BD 4=VFD/MD3_BD 5=VFD/MD6_BD 6=EBMVAV_DD 7=EBMCAV_DD 8=ABBVAV_DD 9=ABBCAV_DD A=DeltaVAV_DD B=DeltaCAV_DD C= AnlgVAV D= AnlgCAV E=DFVAV_DD F=DFCAV_DD		•	•	•	•	•
16	Return Fan Type	0=CAV 1=RF_EF VFD/ABB 2=RF_EF VFD/DF 3=RF_EF VFD/MD2 4=RF_EF VFD/MD3 5=RF_EF VFD/MD6 6=PrpEx VFD/ABB 7=PrpEx VFD/DF 8=PrpEx VFD/MD2 9=PrpEx VFD/MD3 A=PrpEx VFD/MD6 B=None C=1StageExh D=2StageExh E=3StageExh F=EBMVAV_DD G=EBMCAV_DD H=ABBVAV_DD I=Not Used J=ABBCAV_DD K=DeltaVAV_DD L=DeltaCAV_DD M=AnlgVAV N=AnlgCAV O=Not used P=DFVAV_DD Q=DFCAV_DD		•	•	•	•	
17	Return/Exhaust Fan Capacity Control Method	0=None 1=Tracking 2=Building Pressure 3=Speed 4=OADamper		•	•	•	•	
18	Second Duct Pressure Sensor	0=No 1= Yes		•				•

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19	Entering Fan Temp Sensor	0=No 1=Yes		•	•	•	•	
20	Energy Recovery	0=None 1=ConstSpdWhl/NoRH 2=VarSpdWhl/Danfoss 3=VarSpdWhl/MD2 4=VarSpdWhl/MD3 5=VarSpdWhl/ABB 6=ConstSpdWhl/wRH		•	•	•	•	
21	Cooling Circuit Type	0=Individual 1=2,3 or 4 Circ. Water Condenser 2=2 Circ. Air Condenser	Values 0 and 1 are valid only when Position 1 = 1 (SCU)	•	•			•
22	Head Pressure Control	0=No 1=Yes	This position is valid only when Position 1 = 1 (SCU).					•
23	Bypass Valve Control	0=Slave 1=Bypass	This position is valid only when Position 1 = 1 (SCU).					•
24, 25, 26	Unit Size	Three digits (default 050)		•	•	•	•	•
27	Refrigerant Type	0=R22 1=R407C 2=R410A 3=R32		•	•	•	•	•
28	Reheat Type	0=None 1=StgHG 2=ModHG 3=StdHtRht 4=ModLSC 5=ModHG&LSC		•	•	•	•	
29	Unit Voltage	0=208/60Hz 1=230/60Hz 2=460/60Hz 3=575/60Hz 4=208/50Hz 5=230/50Hz 6=460/50Hz 7=575/50Hz		•	•	•	•	•
30	EVType	0=None 1=EVB_Sag 2=EVB_DF 3=MTIII_Sag 4=MTIII_DF 5=MTIII_Sag_DF 6=MTIII_DF_Sag 7=MTIII_DF_C				•	•	

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