



INSTRUCTION TO SERVICE

ITS-61897		DATE 08/03/2026
SECTION:	549-HVAC	
SUBJECT:	HVAC Units Potential Thermal Overload Breaker Tripping Under High Ambient Conditions.	
ISSUE:	Thermo King engineering team observed instances of thermal overload breakers tripping under high ambient temperatures.	
SUMMARY:	Thermo King has determined that it is permissible and advisable to set the thermal breakers to their maximum setting and to ensure that the most current firmware is installed on the unit.	

ITS-61897

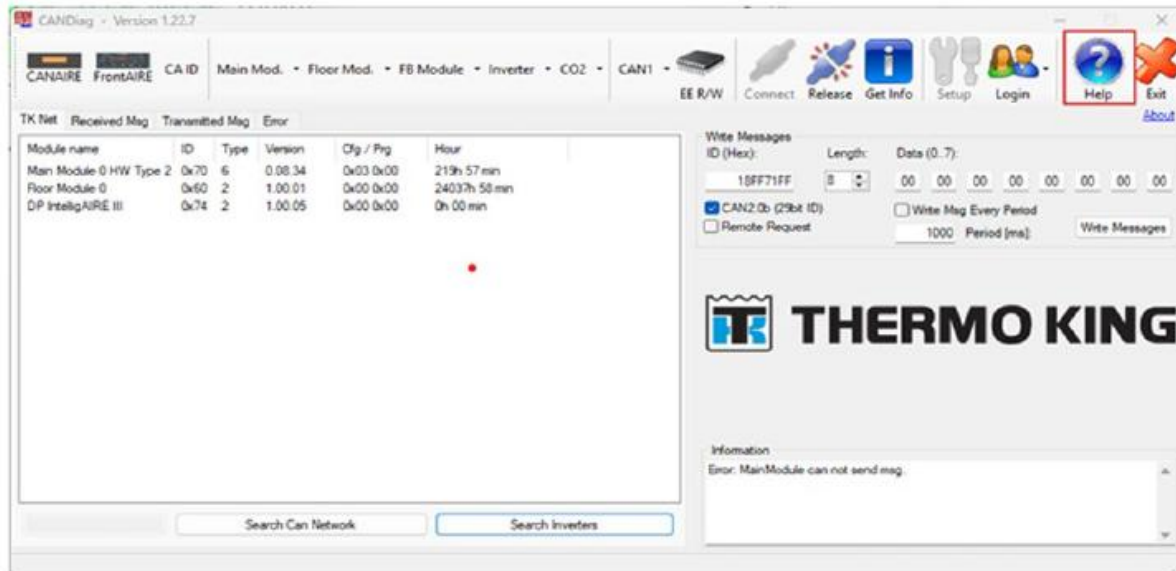
Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

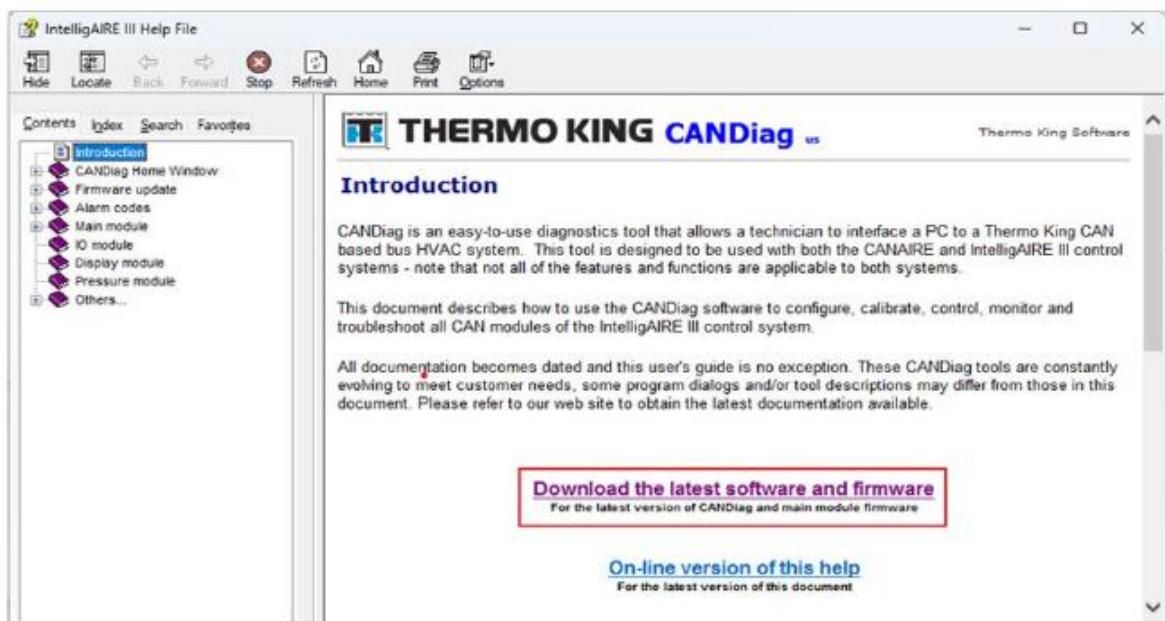
PROCEDURE:

PART A: Firmware Update.

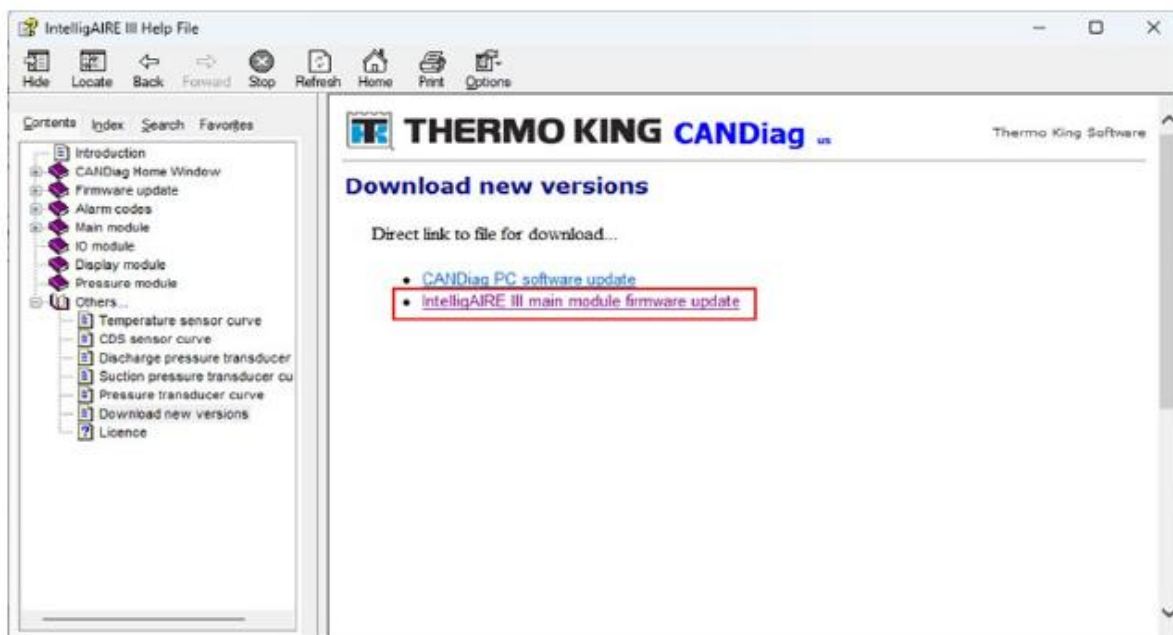
1. Download latest versions of IA3 firmware using "Help" button in the CANDiag program, while connected to the internet.



2. Click on the link for latest software and firmware.



3. Click on the link for IntelligAIRE III main module firmware update.



4. Save the file to the local PC.



5. Downloaded .zip file will contain the .mhx file to be flash loaded into the controller.

Note: You may have to perform an extract of all function on the zip folder to see the IAIII folder in the loader main module search window.

Name	Type
 mm_04.04.15.mhx	MHX File
 mm_05.04.15.mhx	MHX File
 readme.txt	Text Document

Note: Firmware versions 04.xx.xx are for green coated main modules. Firmware versions 05.xx.xx are for blue coated main modules. As of 3/20/2026, 04.04.15 is for green coated main modules and firmware version 05.04.15 is for blue coated main modules.

6. The following procedure for firmware flashloading can be found in the [IntelligAIRE® III Diagnostic Manual 54650](#).



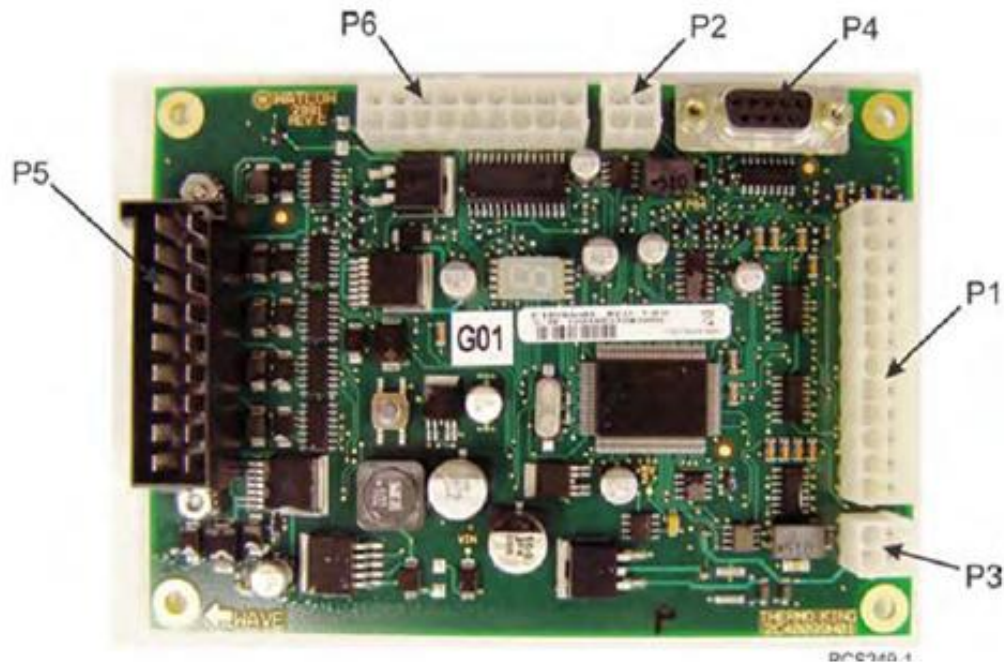
 THERMO KING
Diagnostic Manual

IntelligAIRE® III Control System
Bus Units

Part B: Flash-loading Firmware.

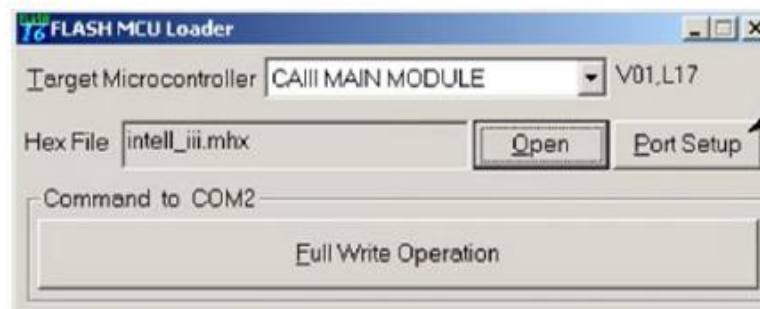
1. Connect one end of the download cable to the P4 (9-pin) connector on the ECM (Main Module) and the other end to the serial port on the PC. If the PC does not have a serial port, use the serial to USB adapter supplied in CANDiag Kit.

Note: Use the white and blue adapter, not the PCAN or Phyttools adapter.

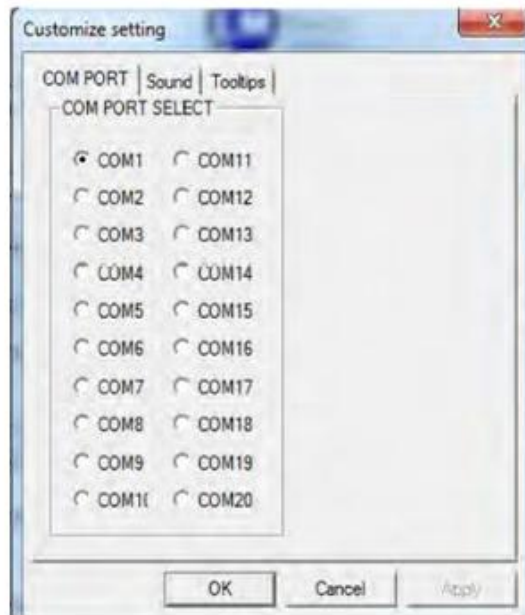


Main module connector positions

2. Apply power to the board then launch - Loader Main Module - from the desktop icon. The following window will appear.

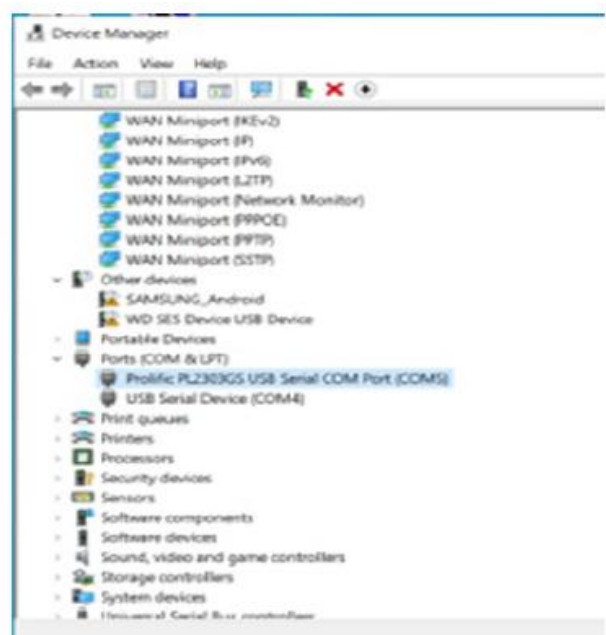
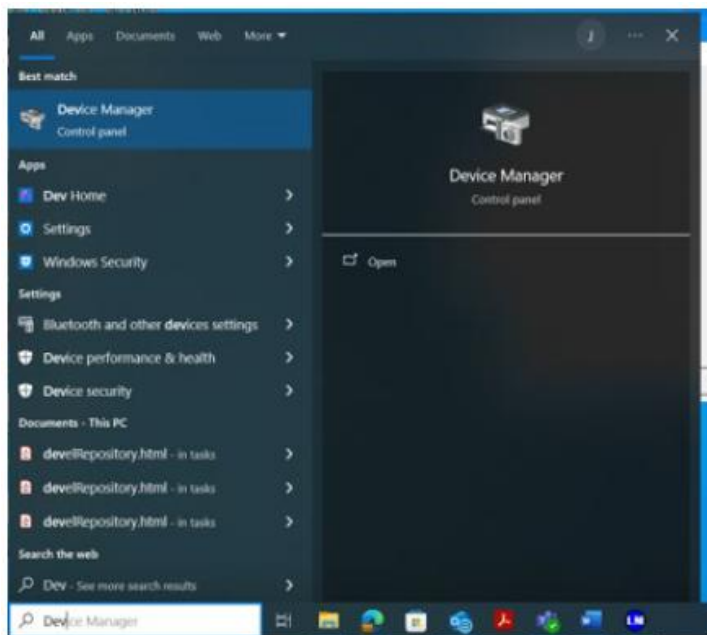


3. Select - Port Setup. Once Port Setup has been selected, the Customize setting screen will appear. This screen allows you to select from 20 COM ports.

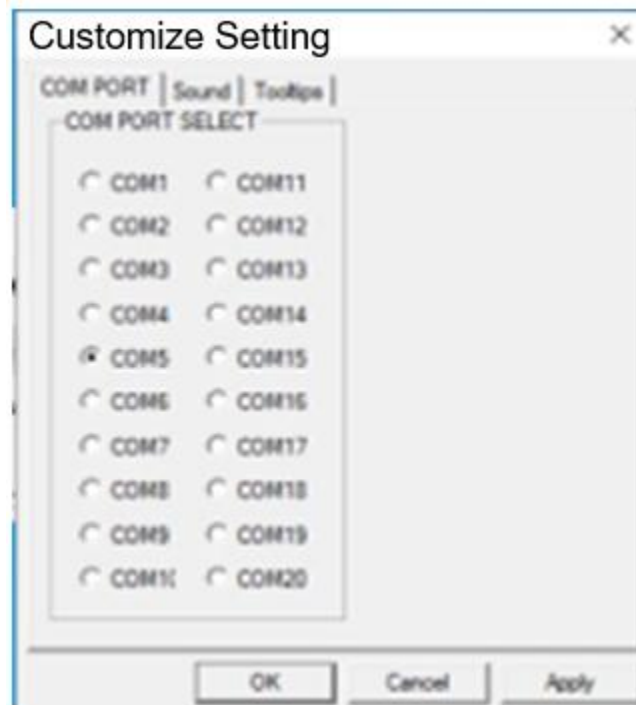


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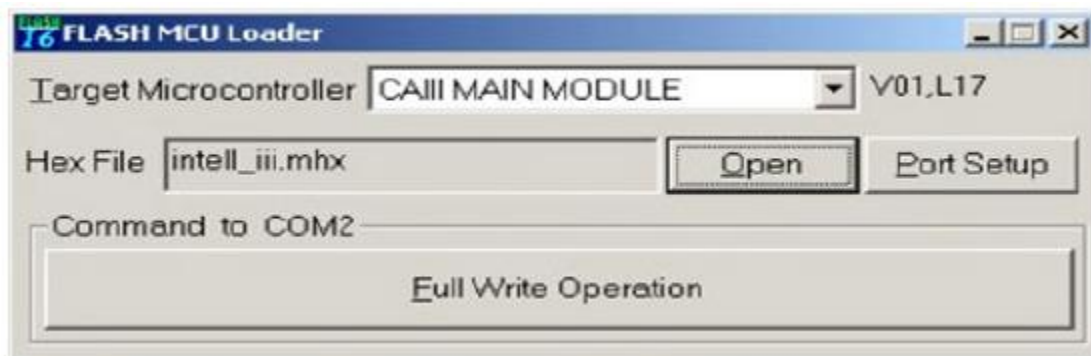
Note: The correct COM port must be selected, or an error message will appear when trying to connect to the ECM. Use the Device Manager Function on your PC or consult your IT department to determine which COM port is used by your PC.



4. Select the proper port and apply.

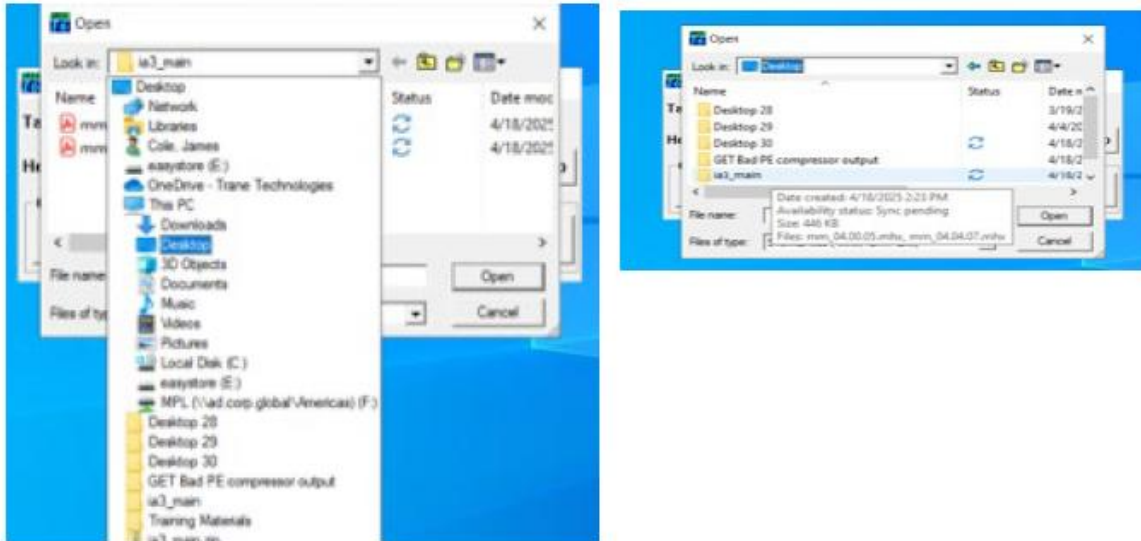


5. Select OK - You will return to the previous screen.

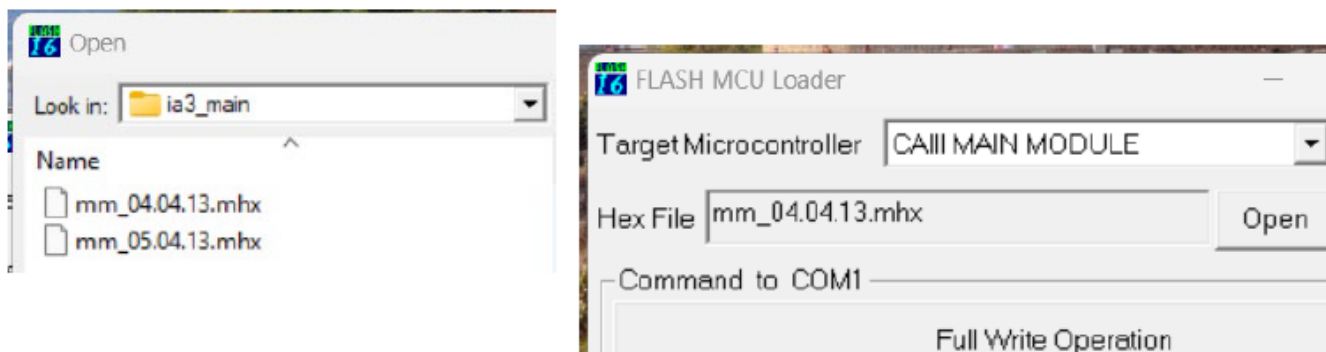


6. Select - Open - search for the desired file name with a .mhx extension. For this update we will be using the most current version of firmware.

Note: Remember firmware versions 04.xx.xx are for green coated main modules. Firmware versions 05.xx.xx are for blue coated main modules.



7. Double click on the appropriate .mhx file. Once the file is selected, the file name should appear in the Hex File box.

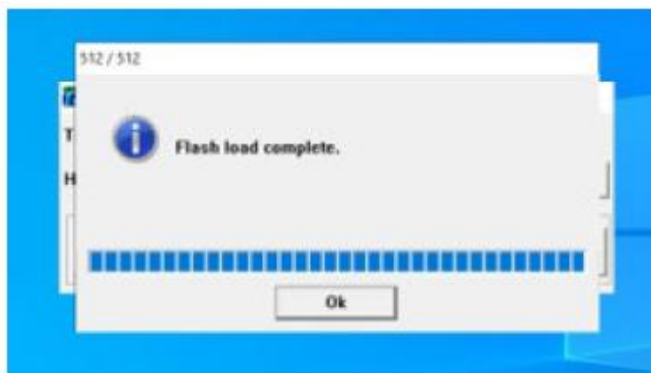


8. Select - Full Write Operation - The following message will appear.



9. Cycle power to the ECM (Main Module) by either turning the bus run switch off then restarting the bus, or by disconnecting and reconnecting the P3 4-pin connector on the ECM (Main Module), then, select -OK.

Note: On systems with more than one main module, power must be removed from both main modules before selecting OK.



10. When the flashload is complete, select - OK - then close flash loader window, remove download cable and cycle power to return to normal operation.

LABOUR ESTIMATE

	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Upload the most current Thermo King firmware	1	0.50	0.50

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NA	NA	NA		

SPECIAL TOOL REQUIRED

Item	Part Number	Description
1	NA	Laptop with TK IntelligAIRE III program and adapter cables.