

MDC Diagnostic Tables - Load Procedure

There are two scenarios that can be encountered when loading MDC Diagnostic Tables:

- Scenario 1: Loading a new MDC (i.e. one that has never had Diagnostic Tables loaded) and
- Scenario 2: Re-loading an MDC (i.e. one that has previously had Diagnostic Tables loaded).

This procedure describes the method for loading Diagnostic Tables for both scenarios.

Assumptions:

- Since the MDC can only load Diagnostic Tables while the aircraft is on the ground, this procedure assumes the aircraft is on the ground.
- This procedure assumes that the Diagnostic Tables are readily available on a DBU disk.

Scenario 1: Loading a new MDC (No previous Diagnostic Tables have been loaded):

1. Apply power to the MDC
This is done by applying power to the IAPS card cage where the MDC resides.
2. On the MFD, cycle the FORMAT control (Bezel Button, Key, knob etc.) until the MAINTENANCE ACCESS page appears.
3. Select the "MDC" function.
While the MDC power-up process is underway, the MDC will display WAITING FOR CSU DATA on the display. If this message is being displayed wait until the MDC completes its power-up process. After the power-up process is complete, the MDC will display the AIRCRAFT TYPE MISMATCH page. This is an alert page that informs the user that the CSU Aircraft Type codes do not match the Diagnostic Tables Aircraft Type code. Since no Diagnostic Tables are loaded, this page is displayed and directs the user to perform a table load.
4. Select "CONFIRM TO LOAD NEW TABLES".
This will cause the MDC to display the LOAD FILES FROM DISK page.
5. Insert the Diagnostic Tables disk into the DBU.
6. Press the "SELECT" control to select DIAGNOSTIC TABLES menu option.
This should be the only menu option shown. Selecting this option will display the LOADING DAIGNOSTIC TABLES progress page and start the load process. The MDC will acquire the DBU and then verify the contents of the DBU disk. Once it has verified the correct files, the MDC will start the load process.
7. When all table files have been loaded into the MDC, the MDC will display LOAD COMPLETE on the LOADING DIAGNSOTIC TABLES progress page.
8. Select "RETURN" on the LOADING DIAGNOSTIC TABLES progress page.
The MDC will display the LOAD FILES FROM DISK page.
9. Select "RETURN" on the LOAD FILES FROM DISK page.
The MDC will re-boot (re-start). This will allow the new diagnostic tables to take effect.
10. When the MDC completes the re-boot process, it will display the SET AIRCRAFT IDENTIFICATION page.
11. The user should then enter a valid 7 character Aircraft ID.
The Aircraft ID is synonymous with the Aircraft Tail Number and is entered by moving the cursor arrow around the keypad grid (using the UP, DOWN, LEFT and RIGHT controls) and selecting the desired letter or number (using the SELECT control) until up

to seven characters are entered. The cursor will automatically move to the next available character entry space when a character is selected.

12. When the Aircraft ID has been entered, press the “ACCEPT” control.

The MDC will display a caution page notifying the user that all Fault History will be deleted by changing the Aircraft ID. The user can choose “YES” to continue or “NO” to cancel on this page.

- a. Select the “YES” control on this page

The MDC will delete any faults stored in Fault History (this is a cautionary procedure – there should be no faults stored yet) and will re-boot (re-start) and allow the new Aircraft ID to take effect.

1. When the MDC completes the re-boot process, it will display the MAINTENANCE MAIN MENU.

Once the Main Menu is displayed, the Table Load process is complete.

Scenario 2: Re-loading an MDC (Previous Diagnostic Tables have been loaded):

1. Apply power to the MDC (This is done by applying power to the IAPS – where the MDC resides).
2. On the MFD, select the FORMAT control (Bezel Button, Key, knob etc.) until the MAINTENANCE ACCESS page appears.
3. Select the “MDC” function.

While the MDC power-up process is underway, the MDC will display WAITING FOR CSU DATA on the display. If this message is being displayed wait until the MDC completes its power-up process. After the power-up process is complete, the MDC will display the MAINTENANCE MAIN MENU page.

4. Using the UP or DOWN controls, move the cursor to the MDC SETUP menu option.
 5. Press the “SELECT” control.

This will cause the MDC to display the MDC SETUP page.

6. Using the UP or DOWN controls, move the cursor to the LOAD FILES FROM DISK menu option.
 7. Press the “SELECT” control.

This will cause the MDC to display the LOAD FILES FROM DISK page.

8. Insert the disk containing the Diagnostic Tables into the DBU.
 9. Using the UP or DOWN controls, move the cursor to the DIAGNOSTIC TABLES menu option.
 10. Press the “SELECT” control.

11. If any faults are stored its Fault History memory, the MDC will display an alert page notifying the user that all Fault History will be deleted by loading new tables. The user can choose to CONTINUE or CANCEL on this page.

- a. Select the “CONTINUE” control on this page

The MDC will delete any faults stored in Fault History and will display the LOADING DIAGNOSTIC TABLES progress page. During the load process, the MDC will acquire the DBU and verify the contents of the DBU disk. Once it has verified the correct files, the MDC will start loading each of the table files.

1. When all of the table files have been loaded into the MDC, the MDC will display LOAD COMPLETE on the LOADING DIAGNOSTIC TABLES progress page.

2. Select "RETURN" on this page.
The MDC will display the LOAD FILES FROM DISK page.
3. Select "RETURN" on the LOAD FILES FROM DISK page.
The MDC will re-boot (re-start) and allow the new diagnostic tables to take effect.
4. When the MDC completes the re-boot process, it will display the
MAINTENANCE MAIN MENU.

Once the Main Menu is displayed, the Table Load process is complete.