COLLINS AEROSPACE CHECKLIST EDITOR OVERVIEW

FOR INFORMATION USE ONLY

JANUARY 2019



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WHAT IS AN ELECTRONIC CHECKLIST?

 An Electronic Checklist is simply an electronic version of the paper checklist (displayed on the MFD) the pilot uses to ensure procedures are completed in a certain order.



WHAT IS CHECKLIST EDITOR?

- The Rockwell Collins Checklist Editor software is a PC-based application that creates a set of pilot checklist files that can be loaded into an aircraft LRU for the purpose of electronic checklists.
- This software is the central component needed to create pilot checklist files. It
 consists of a specialized word-processor for entering text into the checklists. The files
 to be created use information from the aircraft set-up module for each specific aircraft
 type. The aircraft set-up module contains the settings used to correctly draw the
 checklists on the cockpit display.
- Originally created for the OEM's to create electronic Checklists for the end customer.



CHECKLIST EDITOR VERSIONS

MDC-4000/AMS-850 Checklist Editor (32 bit)

- Users Guide 523-0806062
- Used in Pro Line 4 installations

Checklist Editor Version 3.11

- Part Number 815-5453-006
- Started with Pro Line 21 installations
- MDC-3110

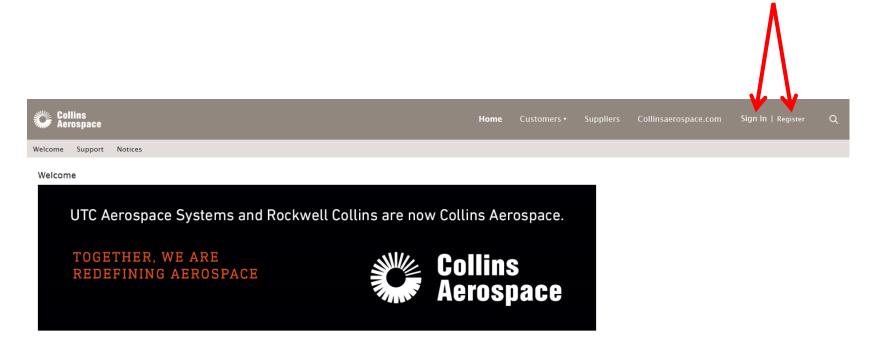
Checklist editor version 4.0 (Requires applicable CLA Acft Module)

- Part Number 815-5453-101
- MDC-3100
- MDC-3110
- MDC-4100
- MDC-4110
- RCCT-6000 (Fusion not included in this presentation)



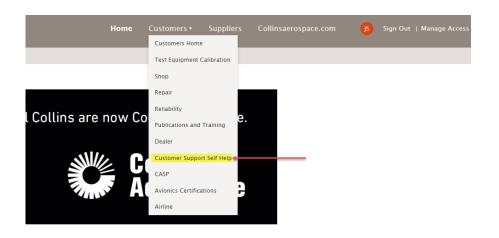
REGISTER FOR PORTAL ACCOUNT

- Login: https://www.rockwellcollins.com/selfhelp or www.shopcollins.com/selfhelp or www.shopcollins.com/selfhelp
 - Register or Log In
- Help: http://www3.rockwellcollins.com/docs/help/account-management/#Logging_in

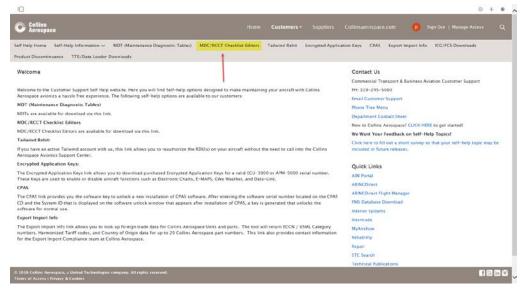




 Select Customer Support Self Help from Customer dropdown

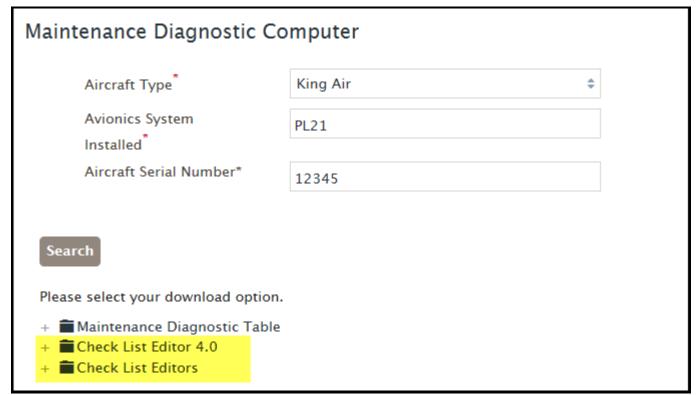


- Select MDC & Checklists
 - If tab is not visible go to Manage Access and check the box for Maintenance Diagnostic Computer and select submit at the bottom of the page





- Enter applicable aircraft information and select Search
- Available checklist folders will then appear
 - Select the + next to the folder to view available checklists





- Available Checklists
 - FDS-2000 V2.11
 - MDC-4000 for PL-4 platforms with MDC-4000 units
 - V3.11
 - V4.0

Note:

- CL-300 V6.0 (SB510) indicates MDC 4110 P/N 822-1988-104
- Use CLE 4 for F20/50 & 50EX/2000/2000EX
- King Air use CLE 4.0 with MDC P/N -004 and above

- **T**Check List Editor 4.0

- 50EX/2000EX Checklist Editor Application
- Cessna XLS+ (-10) Checklist Editor Application
- Checklist Editor 4.0 (download first and use with aircraft application file)
- Falcon 20/50 Checklist Application
- G-150 Checklist Editor Application
- King Air Checklist Editor Application

- Check List Editors

- Lacklist Editor V3.11
- CJ-3 Checklist Editor V3.11
- CL-300 Checklist Editor V2 (V5&V5.2 Aircraft)
- CL-300 Checklist Editor V3.11 (V6.0 Aircraft)
- CL-601 Checklist Editor V3.11
- CL-605 Checklist Editor V3.11
- CL-605 Checklist Editor V3.11 Batch File Patch
- ENCORE+ Checklist Editor V3.11
- Falcon 20/50 Checklist Editor V3.11
- FDS-2000 Checklist Editor V2.11
- G-150 Checklist Editor V3.11
- Hawker Checklist Editor V3.11
- King Air Checklist Editor V3.11
- Learjet 60 XR Checklist Editor V3.11
- MDC-4000 Checklist Editor (32 Bit)
- Piaggio P-180 Checklist Editor V3.11
- Premier IA Checklist Editor V3.11



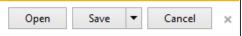
Select desired checklist and open or save

Please select your download option.

- + Maintenance Diagnostic Table
- + Theck List Editor 4.0
- The Check List Editors

CJ-1/2 Checklist Editor V3.11	4592 KB
CJ-3 Checklist Editor V3.11	4592 KB
CL-300 Checklist Editor V2 (V5&V5.2 Aircraft)	4651 KB
CL-300 Checklist Editor V3.11 (V6.0 Aircraft)	4592 KB
CL-601 Checklist Editor V3.11	4592 KB
CL-605 Checklist Editor V3.11	4592 KB
CL-605 Checklist Editor V3.11 Batch File Patch	1 KB

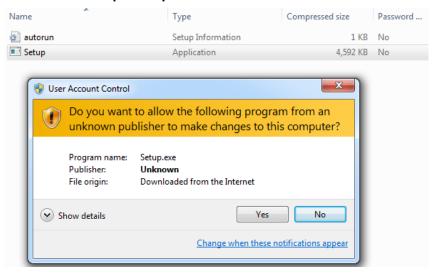
Do you want to open or save CL-605 Checklist Editor V3.11.zip from portal.rockwellcollins.com?





INSTALLING CHECKLIST EDITOR

Select Setup and follow the prompts









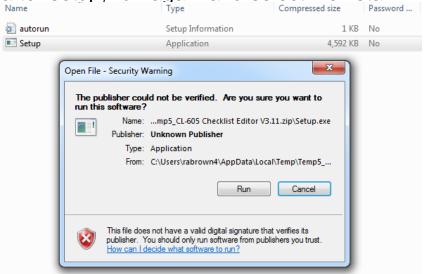


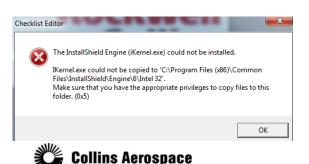


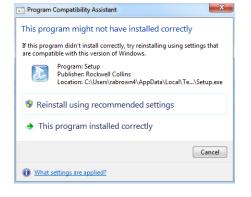


INSTALLING CHECKLIST EDITOR CONT

If you see this after setup, run again and select Reinstall









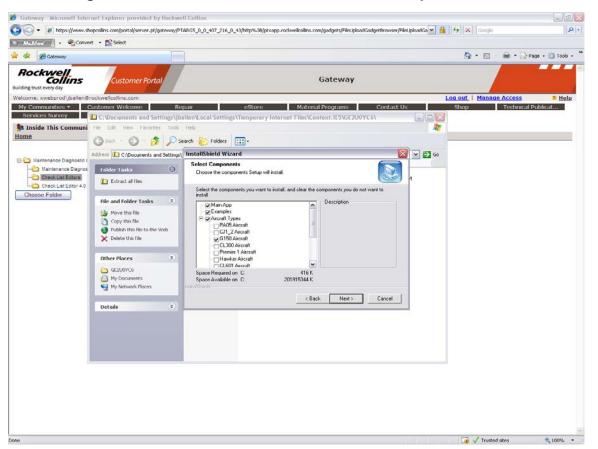
INSTALLING CHECKLIST EDITOR CONT

- After the Installation runs, An Icon will be created on your computer desktop
- Double click on the Icon and the Checklist Editor software will load
 - You can then import a saved .cle file or create new



ADDING MORE AIRFRAMES

Run the installation again and select the other airframes you wish to add





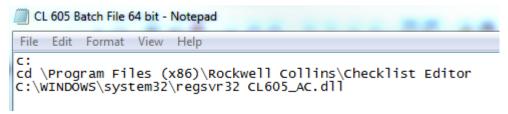
CL605 BATCH FILE

- If installing the CL605 Checklist Editor, the batch file will also need to be downloaded before the editor will work correctly.
 - The batch file on the portal is only for 32 bit systems
 - Batch file will need to be modified to operate on a 64 bit system
 - See next two slides for details
- You should then be able to open the Checklist Editor program and select CL-605 without using a password.
- All other airplanes do not require the batch file



CL605 BATCH FILE EDIT

- How to edit CL605 Batch File
- On the batch file:
 - Right click on the file and choose "Edit"
 - Change it to this:
 - c:cd \Program Files (x86)\Rockwell Collins\Checklist EditorC:\WINDOWS\system32\regsvr32 CL605_AC.dll
- (will look like this)

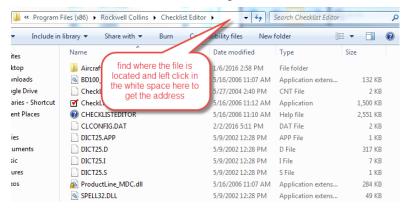


Save and then run as administrator



CL605 BATCH FILE INSTALLATION

- Right click on the file and run as administrator
 - You will get a message "DllRegisterServer in CL605_AC.dll succeeded."
 - Now open the checklist editor and you should see the CL605 in the dropdown
 - If not it might be because your CLE is in a different location.
 - locate the checklist editor then change the address in the batch file to match



- The address you see is what the batch file will need to look like
 - Example:
- You will then need to rerun the batch file



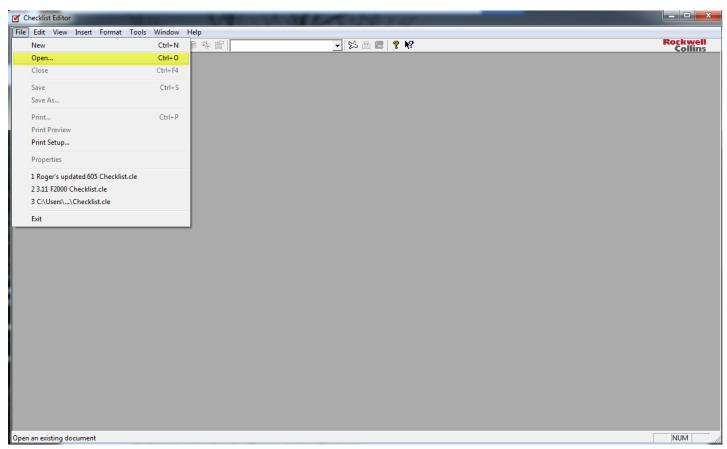
POINTS TO REMEMBER

- Keep copy of the .cle (editable) file.
 - Cannot download .cle file from airplane
- MDC repairs will clear/wipe the checklist files
- Instruction manual is in the "Help Topics" section of program
 - Windows XP Compatible. Windows 7 needs help files loaded
 - WinHlp32.exe is required to display 32-bit Help files that have the ".hlp" file name extension.
 To view .hlp files on Windows 7, install this application
- Have to uninstall 4.0 if you want to use 3.11 again & vise versa
- CJ4 has a CKL-550. Cessna supplied checklist is stored in CKL-550 instead of the MDC
- G150 Checklist is locked for editing
- XLS+ cle files. Need to remove the "+" sign from the loadable files after the build sequence
- OBDS (On Board Data Systems) offers service to create and update checklists.
 www.obds.com



IMPORT AN EXISTING CLE FILE

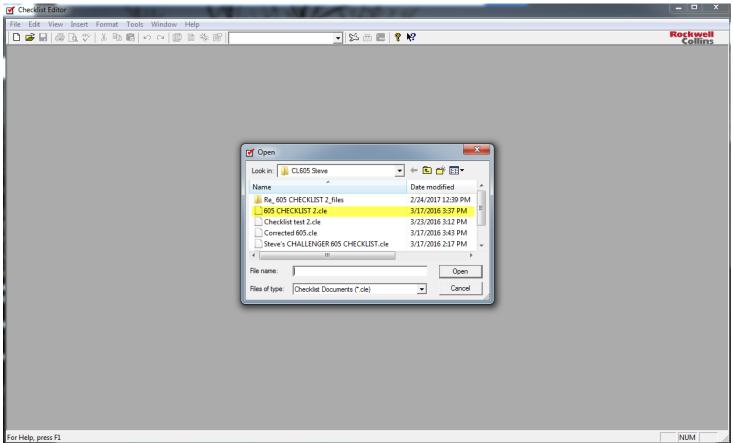
File, Open





IMPORT AN EXISTING CLE FILE

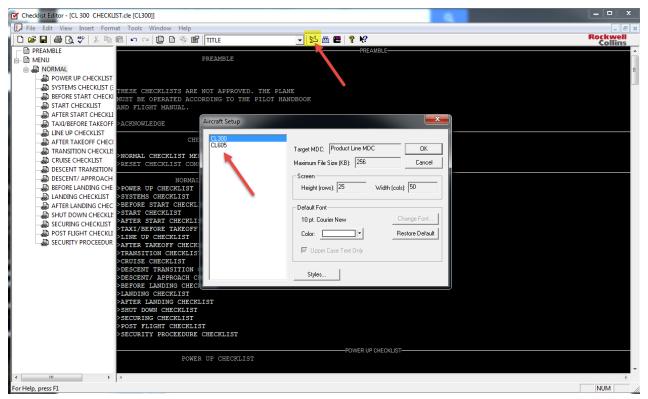
Find the file you wish to open and select





IMPORT AN EXISTING CLE FILE

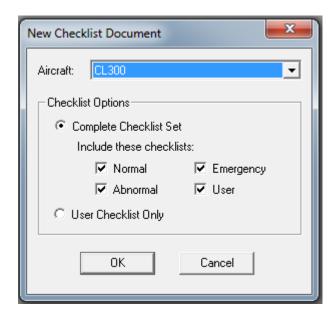
- If you have multiple aircraft, Once the file is open, select the aircraft setup icon and aircraft type
 - This will reformat the checklist text for that aircraft





CREATE A NEW CHECKLIST

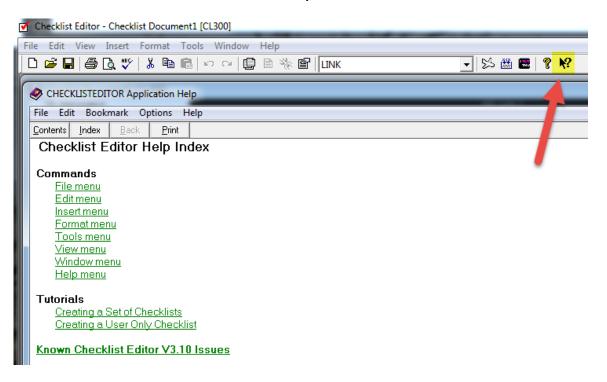
- Select FILE, NEW and then select airframe type
- Select Complete Checklist Set and deselect the checklists you do not need
- If you select all, each checklist will require at least one selectable item
- NOTE Do not select User Checklist Only
 - Will not create Preamble in loadable files & will not load to aircraft





CREATE A NEW CHECKLIST

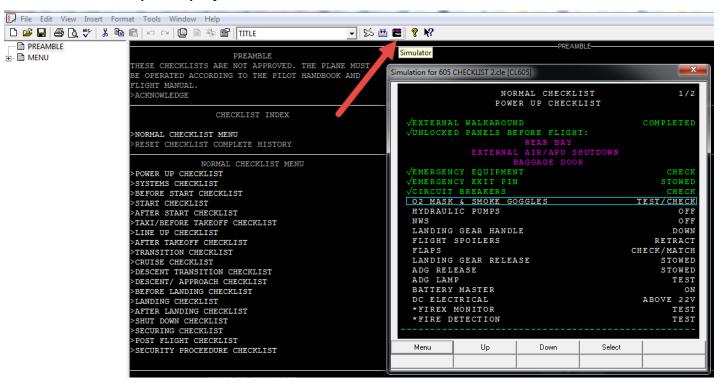
- Use the help topic tab for instructions on how to build a new checklist or edit an existing checklist
- If this does not work, download the WinHlp32.exe





SIMULATE CHECKLIST

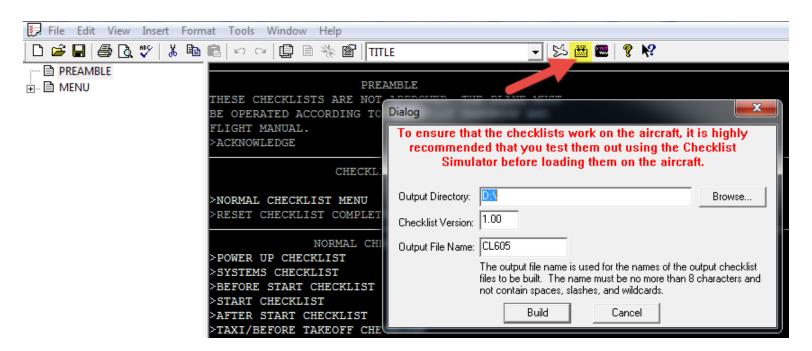
- Use the Simulator to ensure the checklist will operate correctly prior to building the loadable files
- Simulator will also prompt you to save the .cle file





BUILD LOADABLE FILES

- Select Build tab and select a place to save the loadable files
 - Save to computer or directly to root directory of memory stick or other media to be loaded into aircraft MDC
 - Select Build

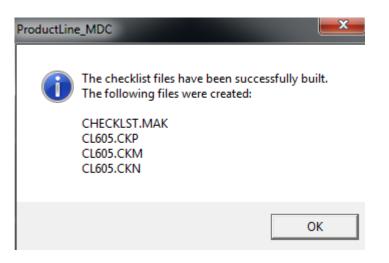




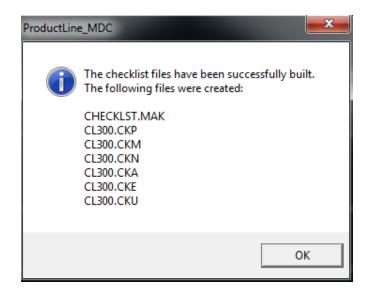
BUILD LOADABLE FILES

- A set of loadable files will be generated
 - Number of files will vary depending on which checklists were created
 - If .CKP (preamble) is missing, file will not load in aircraft

Normal Only Example



All Example

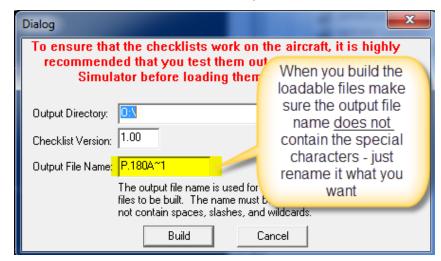




- Aircraft Load Errors
- Build Errors
 - Checkable Item
 - Unassigned Links
- Menu Edits
- Issues and Workarounds
- Run as Administrator



- Aircraft Load Errors
 - Make sure they have the correct checklist editor
 - Make sure they are loading the loadable files and not the .cle
 - Make sure the checklist includes the preamble
 - Load the files in the root directory of the USB (formatted to FAT32)
 - CDU can usually find the files in a folder but the MDC cannot
 - Check name of loadable files
 - Cannot contain more than 8 characters, spaces, slashes or wildcards





Build Frrors

- Every page in the checklist is required to have a selectable item on it. If a page is
 encountered during the build process that does not have a selectable item on it, a build error
 will occur. To fix this, you can add a single checkable item (which is a selectable item) to the
 page with the error
- Unassigned links are not allowed in a checklist build. If your checklist document has an
 unassigned link in it, a build error will occur. To fix this, either properly assign the link, or
 change the style of the line with the unassigned link to a non-linkable style (e.g. Normal)

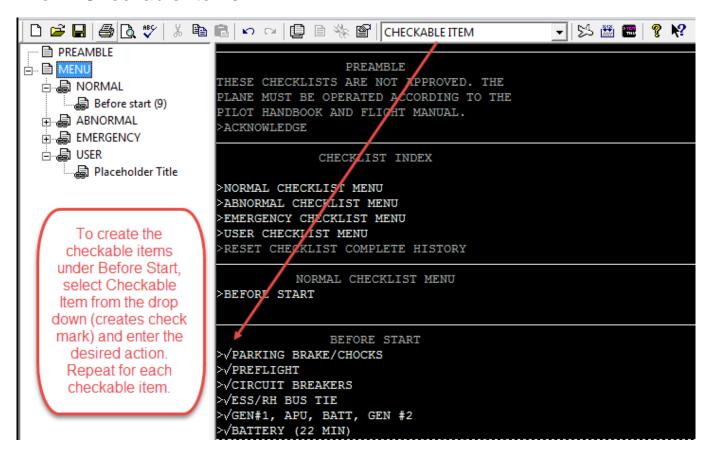


- Build Error Checkable Items
 - All checklists must have at least one "checkable item"
 - Check formatting of checklist items, checkable items, normal, multi item etc.

P.180 Avanti II] _ _ PREAMBLE PREAMBLE-PREAMBLE i ■ MENU THESE CHECKLISTS ARE NOT APPROVED. THE MUST BE OPERATED ACCORDING TO DBU setup HE PILOT HANDBOOK AND FLIGHT MANUAL. **Error Message** After Start (3) ACKNOWLEDGE 🗟 Taxi -MENUrunup (2) CHECKLIST INDEX before takeoff (2) after takeoff NORMAL CHECKLIST MENU Checklist Editor ABNORMAL CHECKLIST MENU ☐ FL 180 EMERGENCY CHECKLIST MENU ABNORMAL USER CHECKLIST MENU An error occurred in the checklist build process. EMERGENCY RESET CHECKLIST COMPLETE HISTORY ■ USER An error occurred while writing to the checklist file. Error occurred in: NORMAL CHECKLIST MENU Checklist: USER DBU SETUP Title: Short Hop >AFTER START Page: Short Hop TAXI RUNUP OK BEFORE TAKEOFF >AFTER TAKEOFF FL 180

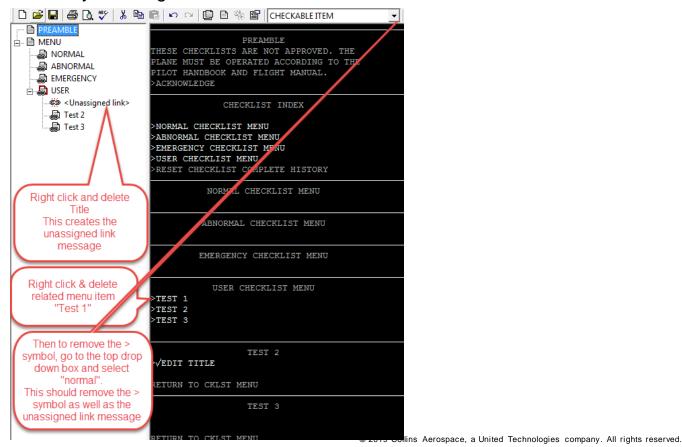


Build Error – Checkable Items



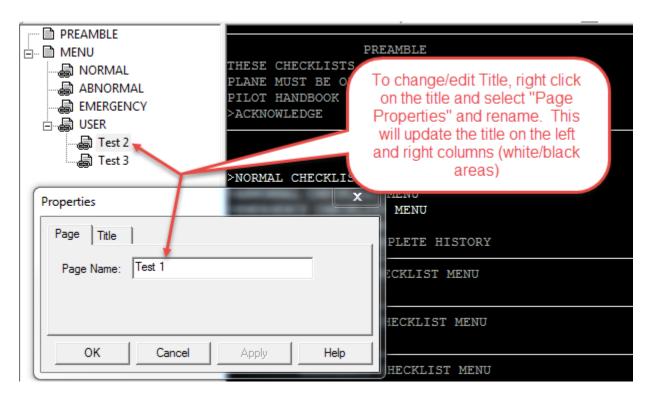


- Build Errors Unassigned Links
 - File cannot contain any "unassigned links"



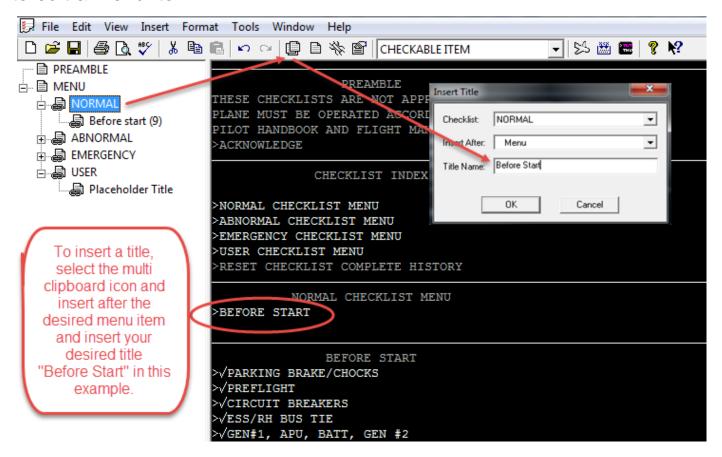


How to edit a Menu item.





How to edit a Menu item





Known Limitations:

- The MDC-3110 Checklist functionality only supports a limited number of checklist pages, titles, and items. These limits are:
 - 256KB Maximum size of all checklist files combined
 - 100 Maximum Number of checklists titles per checklist type (Normal, Abnormal, Emergency, or User)
 - 25 Maximum number of pages allowed in a single checklist path. From the Checklist Menu page through the last page of a checklist title (including decision points), only 25 pages are allowed. This does NOT mean that there can only be 25 pages in a checklist type (Normal, Abnormal, etc)
- Preamble and Checklist Index pages are limited to one page in size. If they span more than one page in the Checklist Editor, a build error will occur



- The MDC-3110 Checklist functionality does not work properly if there is not a Preamble page created. V3.00 was changed to force the Preamble page to be created for any V3.00 checklist document. However, V2.XX does not enforce this. To prevent possible MDC problems, make sure that your checklist document has a Preamble page.
- If it does not, go to Insert->Preamble from on the menu of the Checklist Editor to add a Preamble page to your checklist document.



- Prevent unlinked pages from being built into checklist files
- Description:
- The Checklist Editor will allow you to create pages that no other page links to. This is fine, but when the output files are built, these files are included and can cause navigation problems, especially with the menu pages. The Editor should prevent pages that aren't linked to from becoming part of the output file.
- Workaround:
- To prevent the problems associated with unlinked pages from occurring, carefully check the Node View to be sure that no pages exist that aren't linked to from a Menu page before building checklist files or running the Simulator. If such pages exist, you must delete the unlinked pages to avoid the problem.



- No indication of the type of error when trying to build Checklist Editor files to invalid directory location
- Description:
- If the Checklist Editor tries to build the files to a write-protected or an invalid folder, especially a network folder, an error dialog appears saying there is an error on the last page of the last title of the last checklist. No indication is given that the real problem is the Build directory path.
- Workaround:
- There is no workaround. The Checklist Editor cannot build to write-protected or invalid network folders. This issue is listed to alert the user that this condition exists.



- Page names for menu pages don't match page titles
- Description:
- When creating a new checklist document, the menu pages are auto-generated.
 However, the names of the pages shown in the Node View and the Page Properties
 tab do not match the text shown on the title item of that page. For example, NORMAL
 page in the Node View has a title of NORMAL CHECKLIST MENU. These should
 match up.
- Workaround:
- No workaround is necessary. However, changing the name in the Page Properties dialog causes the Node View and the Page Title to sync up.



- Simulator and MDC Issues
- (These are only present in specific MDCs and Checklist Editor Simulators.)
- Checklist Simulator does not display message for no more chapters (MDC-4100, BuildMDC4100.DLL)
- Description:
- When the user performs a Chapter Down in the last chapter of a checklist, the Checklist Simulator returns to the Checklist Menu correctly. However, it does not display the message "NO MORE CHAPTERS IN THIS CHECKLIST" on the status line as it should.
- Workaround:
- No workaround is available. This issue is listed for user awareness.



TO RUN AS ADMINISTRATOR

- To run as administrator
 - Right click on the CLE and select Properties
 - Under Compatibility, select Run this program as an administrator

