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SERVICE BULLETIN

34 NAVIGATION – KTR 2280 Multi-Mode Digital Radio (KTR 2280) – Software Modification 0203 to the KTR 2280, PN 069-01037-0102; Resolution Of the Precipitation Static (P-Static) Issue Causing Poor VHF Receiver Performance and the Nuisance MMDR 1/2 CAS Messages at Power On.

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Transmittal Information

Honeywell Publication Number D201205000120

Summary

This revision is a FULL replacement. This revision includes the changes that follow:

- Added improved instructions for performing the modification

The information that is identified with revision bars

Revision History

This service bulletin has had no revision(s) as shown in Table1.

Table 1 Service Bulletin Revisions

Revision	Date of Release
Initial Release	30 Aug 2012
Revision 1	26 Oct 2012
Revision 2	19 Dec 2012
Revision 3	19 Jan 2013

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1. Planning Information

A. Effectivity

- (1) This service bulletin is applicable to all KTR 2280 (MMDR), PN 069-01037-0102, with serial number 3584 and below, or without software modification 02/03 or later installed.

B. Concurrent Requirements

- (1) No other modification must be done to part number 069-01037-0102 before the conversion given in this service bulletin. KTR 2280 PN 069-01037-0101 MMDR should be converted to PN 069-01037-0102 before applying this SB.

C. Reason

- (1) To improve operation in precipitation static, typically termed P-Static, conditions that can cause the VHF receiver to desensitize and pilot communications to become difficult, or unusable.
- (2) To correct operation of the MMDR 1 or 2 CAS Fail message that will sometimes post when first powered On.

D. Description

- (1) This conversion consists of an upgrade to the software in the KTR 2280 to 02/03.
- (2) A summary of the work necessary to do this conversion is given below.
 - a) If necessary, the GPS Database Loader and the KTR 2280 (RS422) control Head Simulator programs are installed in a personal computer (PC).
 - b) The PC is attached to the KTR 2280 Multi-Mode Digital Radio (MMDR) with a software loading cable.
 - c) The new software is installed in the KTR 2280 MMDR.
 - d) The conversion is identified by:
 - The attachment of a new software modification tag.
 - e) A test is done to make sure the correct software is installed in the KTR 2280 MMDR.

NOTE: This conversion can be done in the aircraft.

NOTE: This conversion must be done only by an approved Honeywell service center or the applicable original equipment manufacturer (OEM).

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E. Compliance

- (1) It is recommended that this KTR 2280 software modification be done on-aircraft or as the MMDR is sent to the shop for maintenance.

F. Approval

- (1) This modification does not change the TSO of the unit.

G. Manpower

- (1) This conversion can be completed in the approximately 4.5 hour's on-wing for each MMDR. If accomplished at the R&O bench, 1.0 hours is allowed.

H. Weight and Balance

- (1) Not applicable.

I. Electrical Load Data

- (1) Not applicable.

J. Software Accomplishment Summary

- (1) A Software Accomplishment Summary has been completed to agree with the necessary conditions of RTCA document DO-178B, Software Considerations in Airborne Systems and Equipment Certification.
- (2) This software configuration made the change identified below:

The application software in the KTR 2280 is changed to PN 206-00427-0203 to align with the KTR 2280 MMDR, PN 069-01037-0102, SW configuration 02/03.

K. References

- (1) To find, see, and download Honeywell Technical Publications, go to <https://myaerospace.honeywell.com>.
 - System Installation Manual, KTR 2280 Multi-Mode Digital Radio (MMDR) Pub No. 006-10654-0000

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- Component Maintenance Manual KTR 2280 Multi-Mode Digital Radio (MMDR) Pub No. 006-15654-0000
- (2) The document(s) that follow(s) is/are necessary to complete this conversion. Unless specified differently, you can use subsequent revisions.
- Pilatus PC-12/47E Aircraft Maintenance Manual
 - Pilatus Service Bulletin, SB-23-009

L. Other Publications Affected

Not Applicable.

M. Interchangeability or Intermixability of Parts

- (1) The operator must speak to the OEM about the interchangeability and intermixability of the KTR 2280 part numbers identified in this service bulletin.

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2. Material Information

A. Material - Price and Availability

- (1) Speak to Honeywell personnel at the location identified below for the necessary documentation, applicable material and labor prices, available parts, and supply times.

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Global Customer Care Center
Telephone: (800) 601-3099 (U.S.A.)
Telephone: (602) 365-3099 (International)
Telephone: 00-800-601-30999 (EMEA Toll Free)
Telephone: 420-234-625-500 (EMEA Direct)

NOTE: Materials can be ordered at <https://myaerospace.honeywell.com>

- (2) This conversion can be done at a Honeywell service center or Honeywell-authorized repair location. There will be no cost to approved customers.
- (3) Honeywell can supply the parts necessary to do this conversion. There will be no cost to approved customers. If you make an order for parts, send a no-charge purchase order that refers to this Service Bulletin, ATA Number KTR 2280-34-06 (Publication Number D201205000120) – free of charge. The purchase order must include only the applicable parts specified in Table 2 of this service bulletin.

B. Industry Support and Warranty Information

- (1) Honeywell agrees to cover the costs for parts and labor of affected aircraft on approval of a warranty claim. The work must be accomplished by an appropriately rated Honeywell Service Center within 36 months of the issue date of this service bulletin. A properly completed warranty claim may be filed by accessing the Honeywell Aerospace web page at:
<https://portal.honeywell.com/wps/portal/aero/serviceprograms/warranty>.
- (2) A properly completed warranty claim to cover the 4.5 hours required for removal, reinstallation, and return-to-service of each KTR 2280 serial number must be submitted.

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C. Material Necessary for Each Component

- (1) The part(s) identified in Table 2 is/are necessary to do this service bulletin.

Table 2. Parts Required

New PN	Nomenclature	Old PN	Qty	List Price	Instructions
057-05287-0203	Software (SW) modification tag	057-05287-0202	(2)	(1)	Replace tag with new
222-30126-0005	Software System Master CD (compact disk)		1	(1)	Reuse for each SW update

NOTE:

- (1) No Charge
(2) One tag for each radio

D. Material Necessary for Each Spare

- (1) Not Applicable

E. Reidentified Parts

- (1) Not applicable.

F. Tooling - Price and Availability

- (1) The equipment identified in Table 3 is necessary to do this conversion. Equivalent alternatives are permitted for the equipment specified in Table 3. The user must identify the equivalent alternatives.

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Table 3. Tooling

Number	Description	Source
222-30259-0000	GPS Database Loader tool CD	CAGE: 22373
222-30202-0000	KTR 2280 (RS422) Control Head Simulator (TE2 and tuning UI) tool CD	CAGE: 22373
300-10947-0000	KTR 2280 MMDR APEX On-Wing SW Loading Cable	CAGE: 22373
57000328-000	KTR 2280 P-Static Parameter Update Tool CD	CAGE: 22373

NOTES:

- KTR 2280 P-Static Parameter Update Tool CD includes the "ParameterUpdate.exe", the "ParameterVerification.exe" and "ParameterBASELINE.exe" files.

(2) Necessary equipment:

- Windows XP PC with an RS232 COM port

NOTE: Do not attempt this update using a Universal Serial Bus (USB) to Serial adapter.

NOTE: Not all PCs with Windows XP will run the necessary MMDR upgrade tools; already noted as incompatible is the Panasonic Tough book. Contact your HON Rep if another PC is not available.

NOTE: This MMDR upgrade is designed for the version of Windows XP that uses American English spelling, especially important is the spelling of the "Program Files" folder in the root directory. Contact your HON Rep if you are using another version of Windows XP.

- KTR 2280 System Software Program CD; See Table 2
- GPS Database Loader tool CD; See Table 3
- KTR 2280 (RS422) Control Head Simulator (TE2 and tuning UI) tool; See Table 3
- KTR 2280 MMDR APEX On-Wing SW Loading Cable; See Table 3
- KTR 2280 P-Static Parameter Update Tool CD; See Table 3

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3. Accomplishment Instructions

A. General Information

WARNING: TO AVOID INJURY TO PERSONNEL, BE AWARE THAT VOLTAGES ARE PRESENT IN THE KTR 2280. VOLTAGES AS LOW AS 28 VOLTS CAN CAUSE SERIOUS INJURY UNDER SOME CONDITIONS. DO NOT BE MISLED BY THE TERM “LOW VOLTAGE”.

CAUTION: THE KTR 2280 CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE ITEMS. USE INDUSTRY APPROVED PRECAUTIONS.

- (1) Obey the precautions.
- (2) Obey standard established maintenance practices during conversion of the KTR 2280 unless specified differently
- (3) Refer to the Pilatus PC-12/47E Aircraft Maintenance Manual for procedures and precautions. Use all CAUTIONS and WARNINGS.

NOTE: This conversion can be done in the aircraft.

NOTE: This conversion must be done only by an approved Honeywell service center or the applicable OEM.

- (4) If the Tool Installation in paragraph C. (1) “PC Setup” has already been accomplished, skip to paragraph C. (2) “MMDR Software (SW) Update Modification”.

B. Disassembly

- (1) Not applicable

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C. Modification Procedure

- (1) PC Setup
 - (a) Tool Installation

NOTE: This MMDR upgrade is designed for versions 1.6 or 1.7 of the GPS Database Loader application. Uninstall any previous Loader version before continuing. See the “About GPS Database Loader” tab in the **Help** menu of the application to identify the program version.

Install the GPS (global positioning system) Database Loader application onto the personal computer (PC) by running “Setup16.exe” from CD PN 222-30259-0000. The GPS Database Loader creates an icon on the desktop to launch the program.

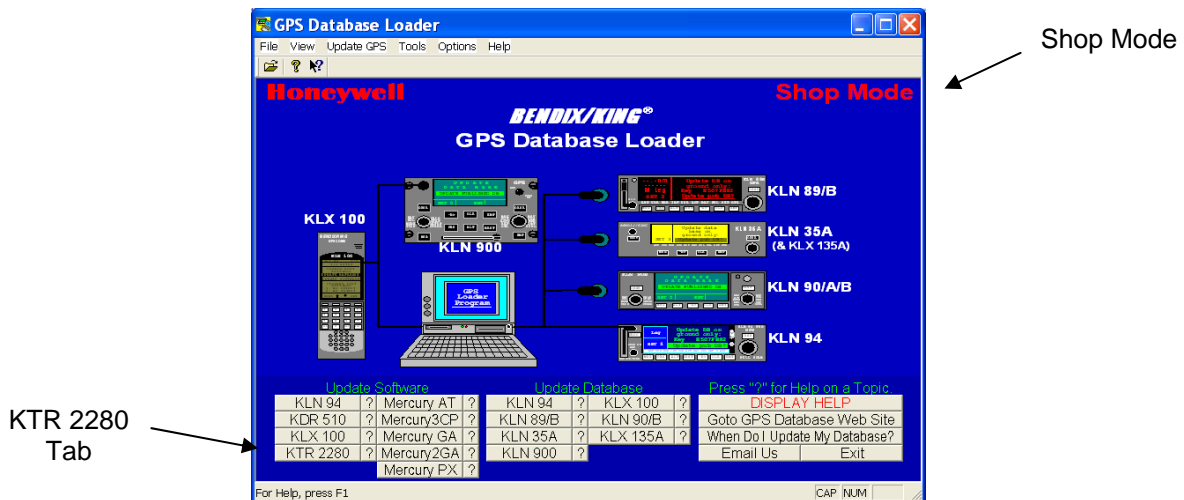


Figure 1. GPS DATABASE LOADER

- (b) Launch the GPS Database Loader application.
 - 1) Confirm **KTR 2280** Update Software tab and the “Shop Mode” are shown, like seen in Figure #1. If **Shop Mode** is not shown in the upper right hand corner use the following to enable:

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“While holding the Control (Ctrl) key, select the “Options” pull down menu, then “Preferences”. Check (✓) the block to “Enable Shop Mode”.

- 2) Exit the GPS Database Loader to close.
- (c) Install KTR 2280 (RS422) Control Head Simulator software tool onto the PC by running “Setup.exe” in the cvidistkit.te2ui folder on CD PN 222-30202-0000. Create a desktop shortcut for convenience.
- 1) Move the ate tool folder from C:\Program Files\te2ui to the root directory C:. Move the simulator folder from C:\Program Files\te2ui to the root directory C:. Verify the ate tool and simulator folders are now located in the C: directory.

NOTE: To properly register this application; When running this application for the very first time on this PC, double click on the MMDR Control.exe file in the Simulator folder to “register” the application on the computer, otherwise there may be parameter read failures when checking the CRC

- (d) Launch the **Control Head Simulator** application. The TE2UI is composed of two windows. Allow the smaller server window to run in the background. The focus will be on the larger control panel GUI.

Note: Use the shortcut icon created earlier, or go to the Windows start tab, >Programs, >te2ui, >te2ui.exe to open the TE2UI control head simulator as seen in figure 2.

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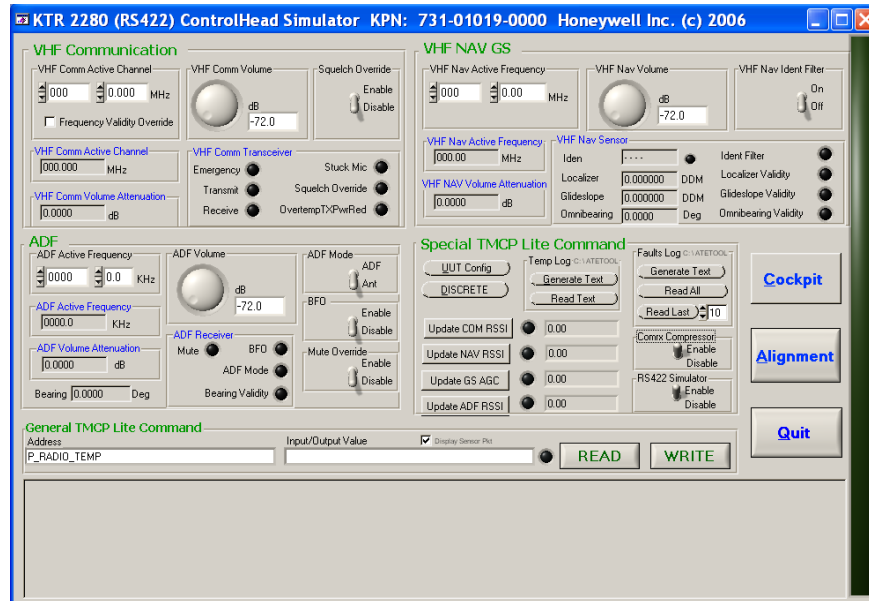


Figure 2. CONTROL HEAD SIMULATOR

- 1) Confirm the Control Head Simulator, like seen in Figure 2 appears.
- 2) Confirm KTR 2280 (RS422) Controller Server, like seen in Figure #3 can be selected with the tray icon label "KTR 2280".
- 3) Back at the main screen; select Quit to close both windows.

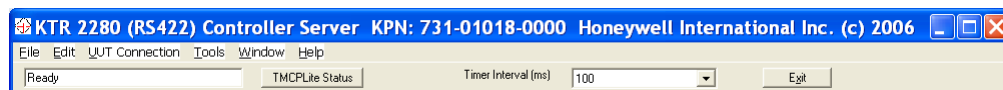


Figure 3. CONTROL HEAD SIMULATOR

- (2) MMDR Software (SW) Update Modification
 - (a) Setup when Loading SW On-Wing

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- 1) See AMM (Aircraft Maintenance Manual); with aircraft avionics power Off, access #1 & #2 KTR 2280 Multi-Mode Digital Radio, and un-plug from their mounting rack.

- Access the KTR 2280 MMDR by removing the appropriate cockpit display as specified in the Pilatus PC-12/47E Aircraft Maintenance Manual and set it on a suitable flat surface.

- 2) Connect MMDR APEX ON-WING SW LOADING CABLE, HPN 300-10947-0000, to the MMDR rack connector, and then connect unit under test (UUT) and the PC RS-232 Com port like shown in Figure 4.

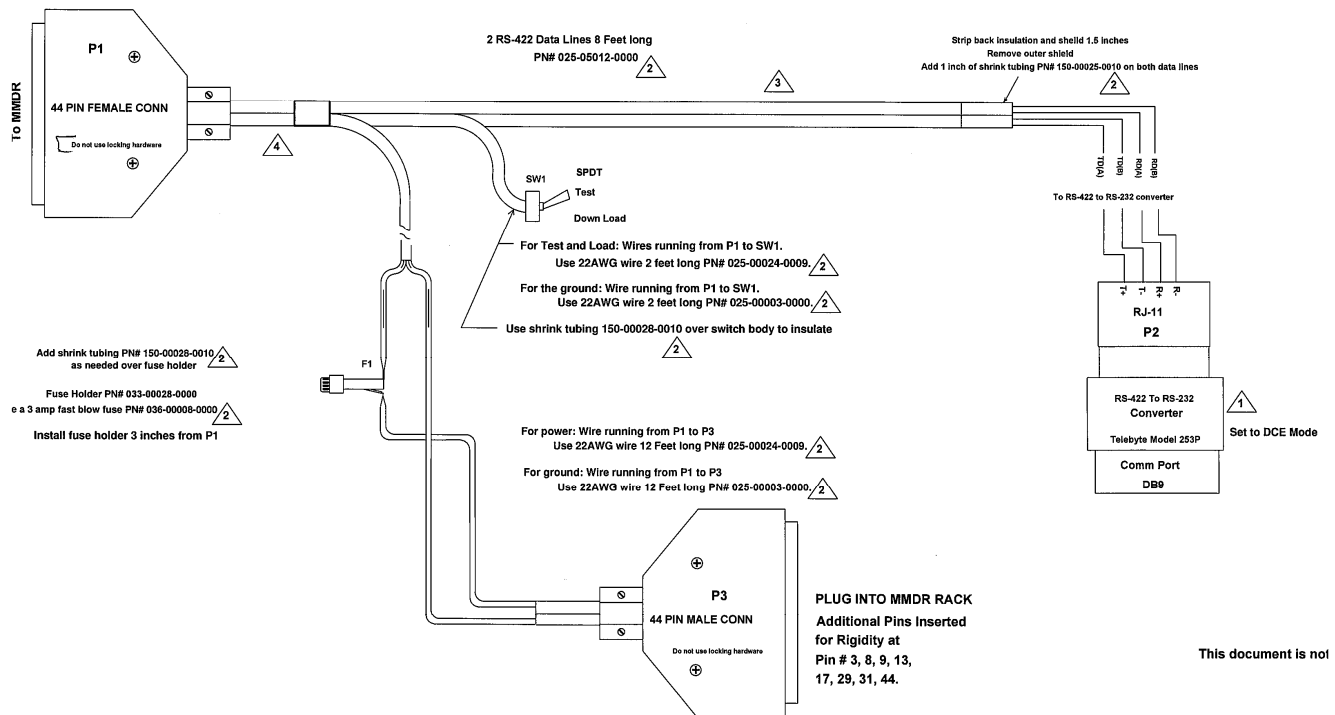


Figure 4. SW LOAD CABLE CONNECTIONS

- (3) Apply power to the aircraft per the Pilatus POH. Pull the appropriate MMDR Circuit breaker.

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- (4) Next run the installation tool Batch file called TE2UI_Setup.bat included with the KTR 2280 Software System Master CD PN 222-30126-0005. Access the program files, and locate the Batch file.

Then “double-click to run the “TE2UI_Setup.bat” file

Note: This batch file for setting up the TE2UI will be on the system SW CD in the “TE2_Data_Files” directory.

Note: This Batch file will complete the steps in the TE2_update_Procedure.docx, and includes a new “TUI.ini” file

- (5) Load 2280 Software
 - (a) Start the PC; place the new KTR 2280 Software System Master CD PN 222-30126-0005 in drive.
 - (b) Place the LOAD/TEST switch located on the test harness to “LOAD” Then engage the appropriate MMDR circuit breaker.
 - (c) Launch the GPS Database Loader, then:
 - Select “Update GPS” then “KTR 2280” and finally “MMDS Application” from the main menu.

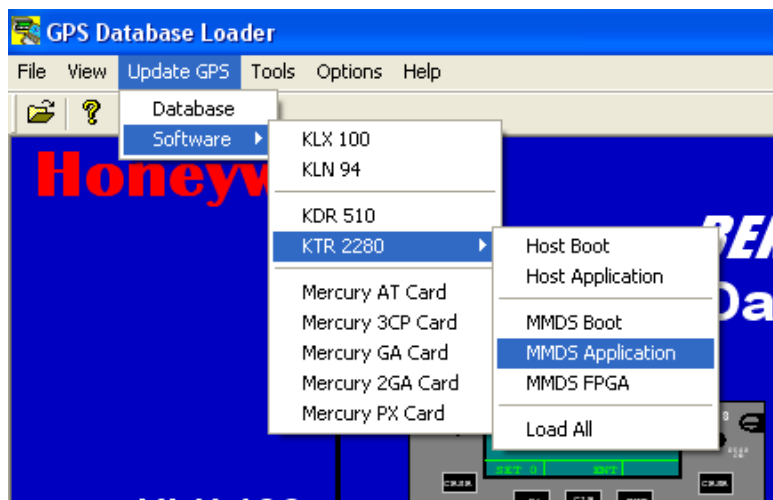


Figure 5. Select Host File

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- Locate the MMDR program files located on the Software System Master CD (222-30126-0005).
- Select the MmdsApp.bin file.
- Choose Open.
- Select Start.
- An in-progress message will be shown during this updating sequence. After the loader has completed the verification, a success message is shown.

Note: Monitor the progress of each of the file loads. If the load resets during the loading process, you must power down the radio and start the loading process again. If resets continue reduce the COM port speed to 9600 baud and try reloading software. This applies to all 5 of the files being loaded.

- Select OK.
- (d) Select "Update GPS" then "KTR 2280" and finally "MMDS FPGA" from the main menu.

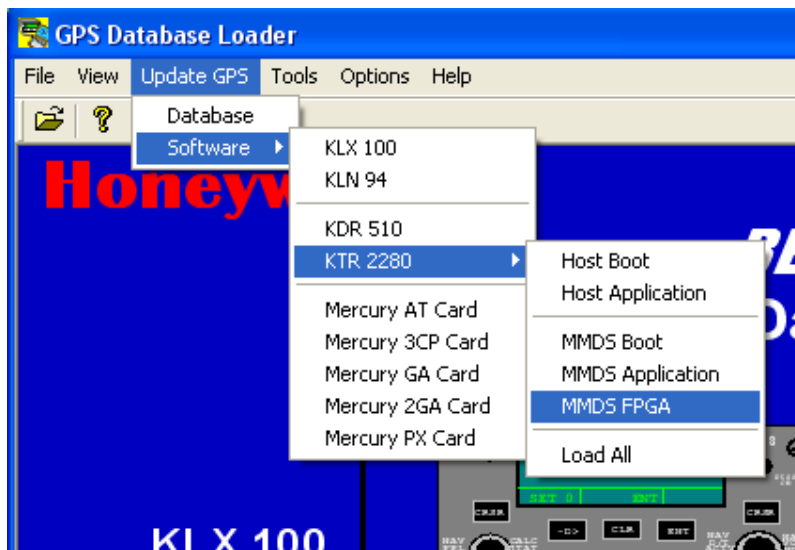


Figure 6. Select MMDS FPGA

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- Locate the MMDR program files.
 - Select the MmdsFpga.bin file.
 - Choose Open.
 - Select Start.
 - An in-progress message will be shown during this updating sequence. After the loader has completed the verification, a success message is shown.
 - Select OK.
- (e) Select “Update GPS” then “KTR 2280” and finally “Host Application” from the main menu.

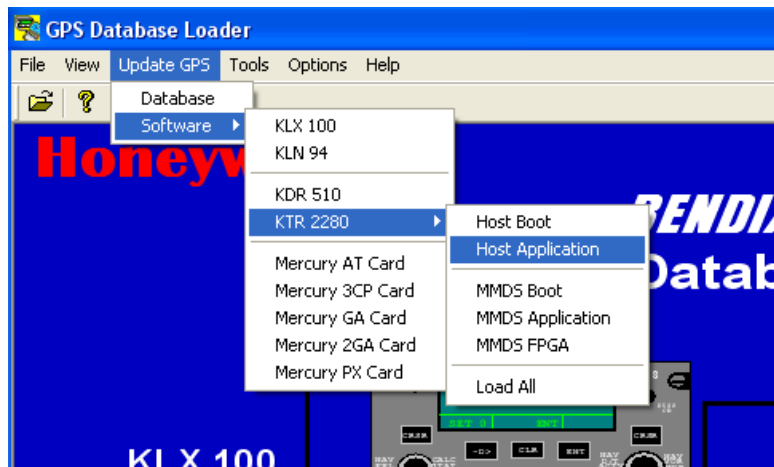


Figure 7. Select Host Application

- Locate the MMDR program files.
- Select the HostApp.bin file.
- Choose Open.
- Select Start.

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- An in-progress message will be shown during this updating sequence. After the loader has completed the verification, a success message is shown.
 - Select OK.
- (f) Select “Update GPS” then “KTR 2280” and finally “MMDS Boot” from the main menu.

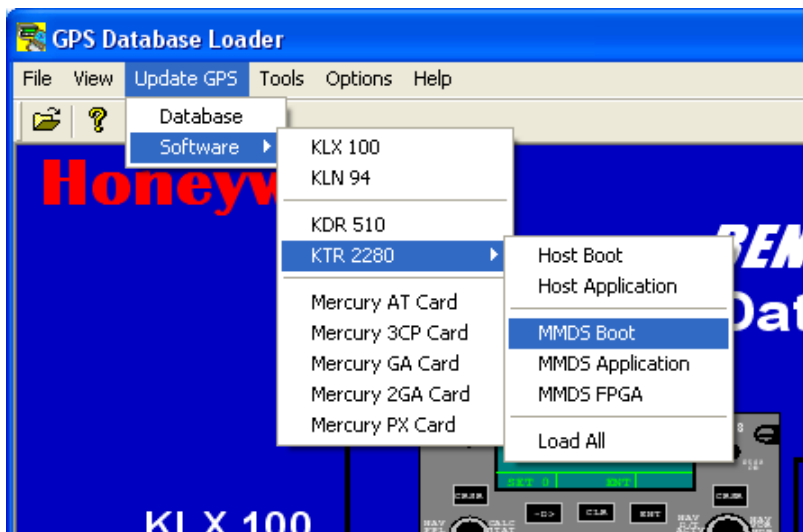


Figure 8. Select MMDS Boot

- A warning will appear for the MMDS Boot similar to the figure below.

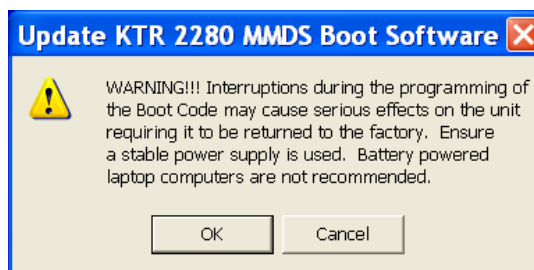


Figure 9. MMDS Boot software Warning

- Acknowledge and select OK

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- Locate the MMDR program files.
 - Select the MmdsBoot.bin file.
 - Choose Open.
 - Select Start.
 - An in-progress message will be shown during this updating sequence. After the loader has completed the verification, a success message is shown.
 - Select OK.
- (g) Select “Update GPS” then “KTR 2280” and finally “Host Boot” from the main menu.

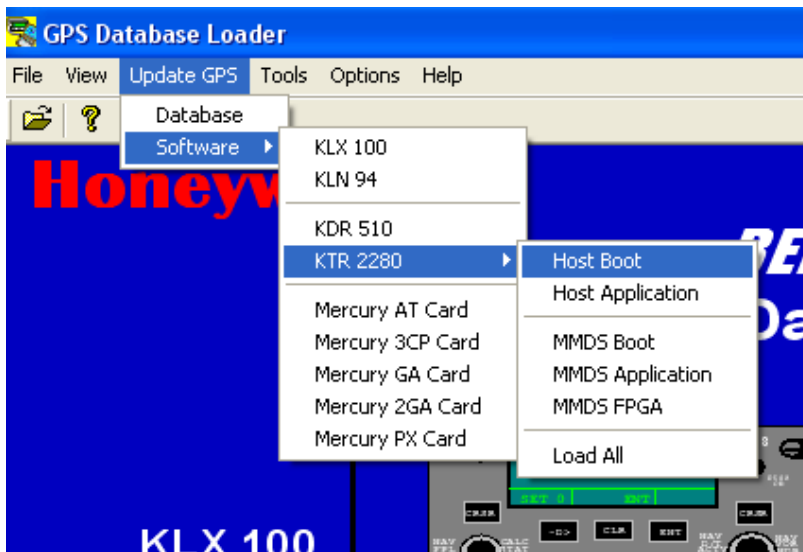


Figure 10. Select Host Boot

- A warning will appear for the Host Boot similar to the figure below.

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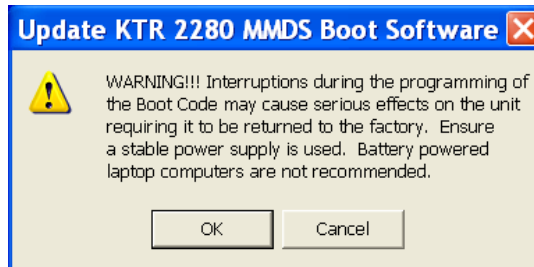
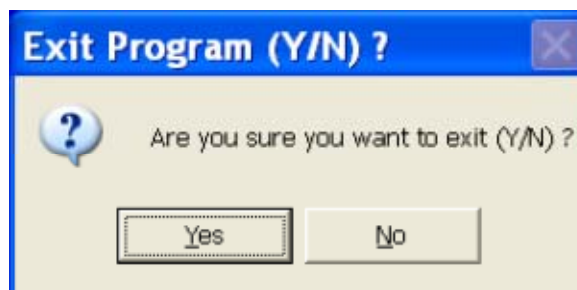


Figure 11. MMDS Boot software Warning

- Acknowledge and select OK
 - Locate the MMDR program files.
 - Select the HostBoot.bin file.
 - Choose Open.
 - Select Start.
 - An in-progress message will be shown during this updating sequence. After the loader has completed the verification, a success message is shown.
 - Select OK.
- (h) The software uploading is complete
- (i) Exit now.



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Figure 12. Exit Program Screen

- Select Yes
- (j) Pull the appropriate MMDR circuit breaker.
- (6) Confirm the KTR 2280 SW Update
 - (a) Set the LOAD/TEST switch to “test”
 - (b) Engage appropriate MMDR circuit breaker
 - (c) Start the KTR 2280 (RS422) Control Head Simulator.
 - Expect a response, like a green bar, active windows, etc. after 30 seconds, but < 60 seconds
 - (d) In the TE2UI graphical interface “General TMCP Lite Command” address field, See Figure 13, type the Parameter Address command exactly as shown in Table 4. Then press READ. Make sure the result in the Input/Output Value window is the same as the expected result given in Table 4. Repeat for all 5 files.
 - Ignore any leading 0s.

Table 4. Expected Result

Binary Image	TE2UI Command	Expected Result	✓
KTR 2280 host software boot image	P_HOST_CRC_BOOT	26094532	
KTR 2280 host software application image	P_HOST_CRC_APP	2347120392	
MMDS boot image	P_MMDS_BOOT_CRC	2416405892	
MMDS application image	P_MMDS_APPL_CRC	139606403	
MMDS FPGA Image	P_MMDS_FLASH_CRC	902726719	

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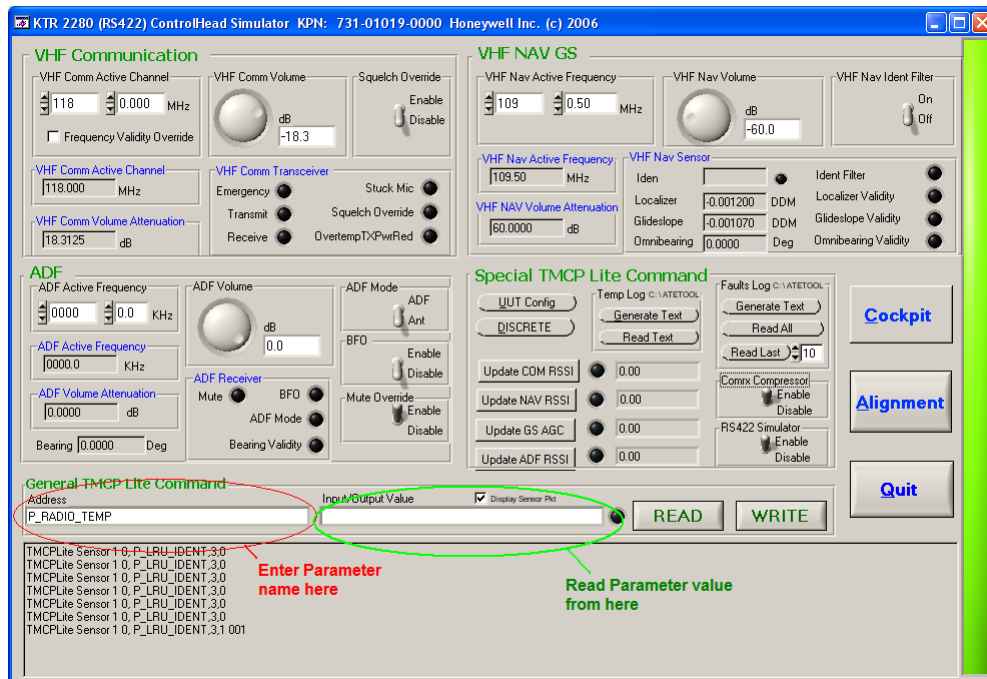


Figure 13. Control head Simulator Screen

- (e) Quit the KTR 2280 (RS422) Control Head Simulator to close.
- (f) Pull appropriate MMDR circuit breaker.
- (7) Update the IF AGC Parameters to the saved values. This procedure copies the Normal IF AGC receiver parameter values to the Interlock values to be compatible with the P-Static modification.
 - (a) On the PC, create a folder on the C: directory for the MMDR. Name the folder (aircraft serial number)_MMDR 1_(unit serial number). Example C:\1001_MMDR1_29046.
 - (b) Copy the files "ParameterUpdate.exe", "ParameterVerification.exe", and "ParameterBASELINE.exe" from the KTR 2280P-Static Parameter Update Tool CD provided (57000328-000) to the folder created in step C(6)(a).
 - (c) Engage the appropriate MMDR circuit breaker.

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- (d) Start the KTR 2280 (RS422) Control Head Simulator TEU2I application.
 - 1) Expect a response, like a green bar, active windows, etc. before 60 seconds.
- (e) After the activity bar turns green, click the “Alignment” button.



Figure 14. Alignment Button

- (f) Select “OK”. The Operator field has no effect and can be left blank.

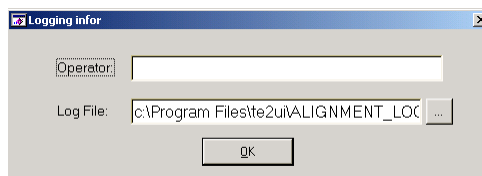


Figure 15. Operator Name Input Screen

- (g) Create a “BASELINE.txt” parameter file
 - 1) In the TUI window, select “System” and then “MMDS Read...”

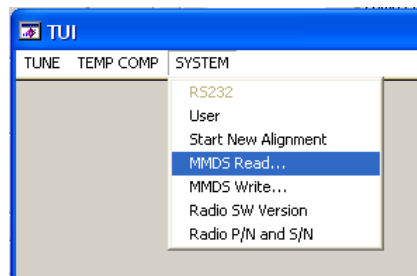


Figure 16. TUI window

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- 2) Find and select C:\Program Files\te2ui\Read Factory Align Parameters.txt. Select the “OK” button. This instructs the TE2 UI to read parameters from the radio.

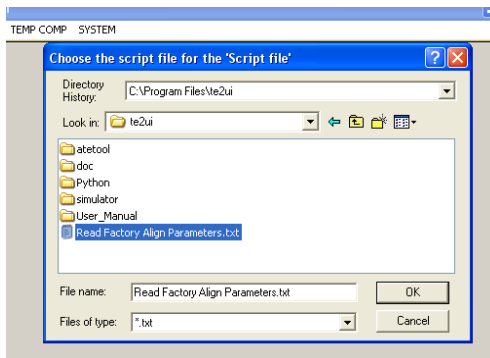


Figure 17. Script File Look up Window

- 3) Another pop up will appear. In the “Look in” window navigate to the folder created in C(6)(a). Type “Parameters.txt” in the “file name” text box and select “OK.” This creates a file containing the results of the previous step.

Note: Only single click on the OK. Double clicking on O.K. may cause the original “Read Factory Align Parameters.txt” file to be overwritten and the second window will not pop up anymore. Rerun the installation tool Batch file called "TE2UI_Setup.bat" to recover.

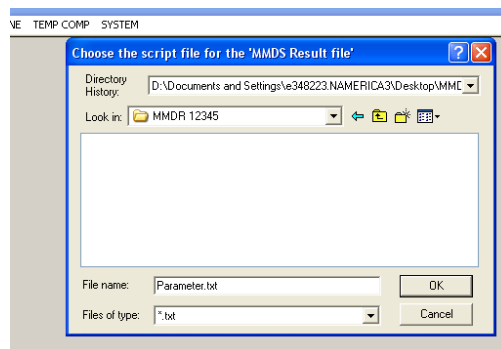


Figure 18. Script Results Look up Window

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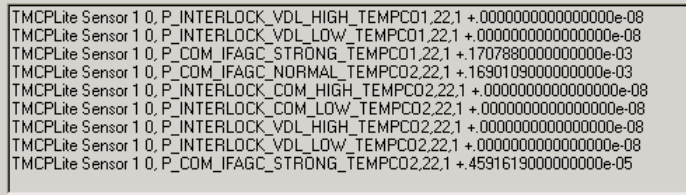
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- 4) The TE2 UI starts to read parameters and save to the result text file created in the previous step. The operator can observe the process through the TE2 UI TMCP Text Box.



```
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMPC01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMPC01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CDM_IFAGC_STRONG_TEMPC01,22,1 +.1707880000000000e-03
TMCP Lite Sensor 1 0, P_CDM_IFAGC_NORMAL_TEMPC02,22,1 +.1630109000000000e-03
TMCP Lite Sensor 1 0, P_INTERLOCK_CDM_HIGH_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_CDM_LOW_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CDM_IFAGC_STRONG_TEMPC02,22,1 +.4591619000000000e-05
```

Figure 19. TE2 Parameter Read Screen

1. In 30-60 seconds the read operation will be completed.
- 5) In Windows Explorer, navigate to the folder created in step C(6)(a). Find Parameters.txt created in step C(6)(g)4). Rename "Parameters.txt" to "BASELINE.txt".

CAUTION: Once an initial copy of BASELINE.txt is created, **don't recreate it!** When attempting to execute this procedure again, start from step C(6)(h) below, or contact your Honeywell Rep.

- (h) Re-Write "BASELINE.txt" parameters back to the radio
 - 1) Double click on BASELINE.txt to open it in the text editor Notepad. Select File>Save As and save the file as BASELINE_WRITE.txt
 - 2) Use the command Ctrl-H (hold the Ctrl key down and type H) to invoke the "Find and Replace" dialog box.
 - 3) In the "Find what:" box, type an equals sign (=) and In the "Replace with:" box, type a space ().
 - 4) Select the "Replace All" button. This will replace all the equals signs in the file with spaces, effectively removing the equals from each line.

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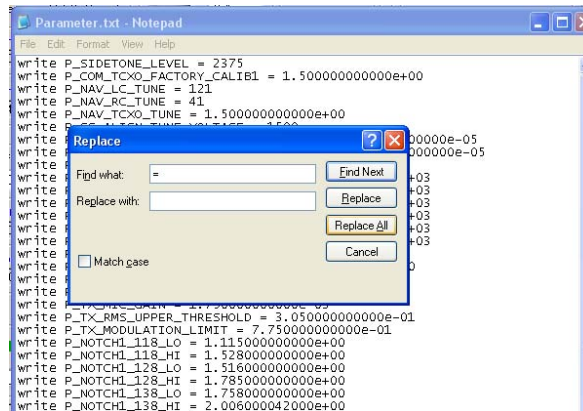


Figure 20. Parameter.txt Replace Screen

- 5) Select “Cancel” to close the “Find and Replace” dialog box.
- 6) Select File and Save.
- 7) Return to the TUI window (located in the bottom Windows tray). From the TUI main menu, select “System” and then “MMDS write...”

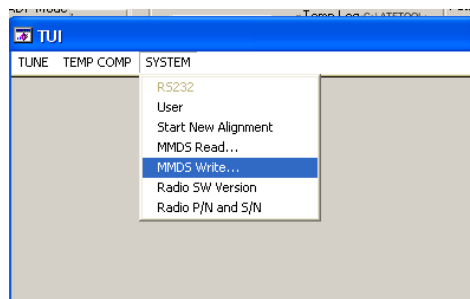


Figure 21. TUI Screen

- 8) Using the “Look in” field navigate to the directory created in step C(6)(a).
- 9) Highlight the “BASELINE_WRITE.txt” file and select “OK.”

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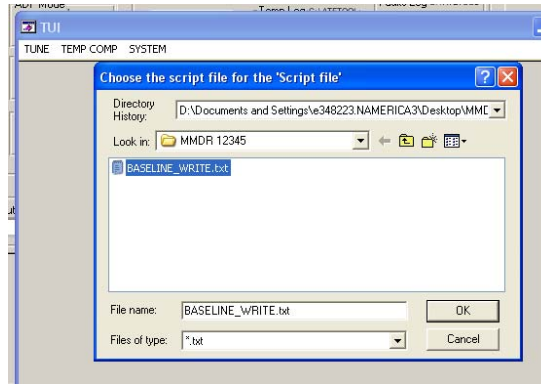


Figure 22. Script file Lookup Screen

- 10) The TE2 UI starts to write parameters back into the MMDR. The operator can observe the process through the TE2 UI TMCP Text Box.

```
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMP01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMP01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CDM_IFAGC_STRONG_TEMP01,22,1 +.1707880000000000e-03
TMCP Lite Sensor 1 0, P_CDM_IFAGC_NORMAL_TEMP02,22,1 +.1630109000000000e-03
TMCP Lite Sensor 1 0, P_INTERLOCK_CDM_HIGH_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_CDM_LOW_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CDM_IFAGC_STRONG_TEMP02,22,1 +.4591619000000000e-05
```

Figure 23. TE2 Parameter Read Screen

- 11) When the text box stops updating for more than 10 seconds, the TE2 UI is finished updating the radio. (It is recommended to wait a full 60 seconds for the update to complete.)
 - (i) Create an "INITIAL.txt" parameter file
 - 1) In the TUI window, select "System" and then "MMDS Read..."

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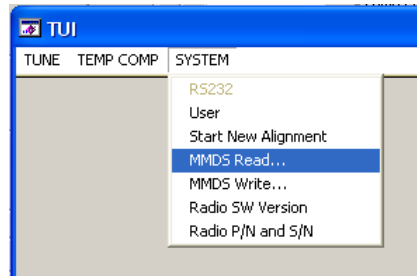


Figure 24. TUI Screen

- 2) Find and select C:\Program Files\te2ui\Read Factory Align Parameters.txt. Select the “OK” button. This instructs the TE2 UI to read parameters from the radio.

Note: Only single click on the OK. Double clicking on O.K. may cause the original “Read Factory Align Parameters.txt” file to be overwritten and the second window will not pop up anymore. Rerun the installation tool Batch file called "TE2UI_Setup.bat" to recover.

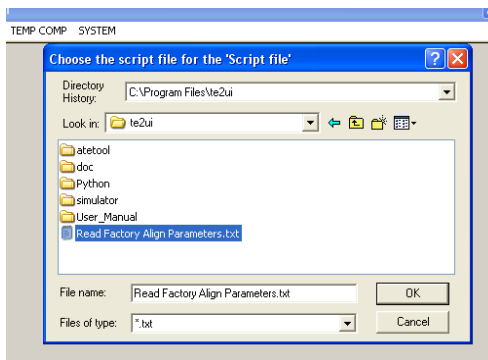


Figure 25. Script File Lookup Screen

- 3) Another pop up will appear. Using the “Look in” field, navigate to the folder created in step C(6)(a). In the “File name” window, type “Parameters.txt” and select “OK.” This creates a file containing the results of step C(6)(i)2)

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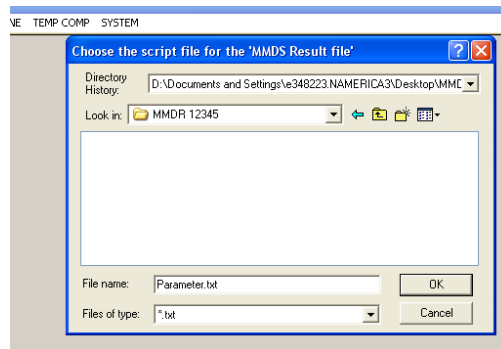


Figure 26. Script File Results lookup Screen

- 4) The TE2 UI starts to read parameters and save to the result text file created in the previous step. The operator can observe the process through the TE2 UI TMCP Text Box.

```
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMP01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMP01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CMD_IFAGC_STRONG_TEMP01,22,1 +.1707880000000000e-03
TMCP Lite Sensor 1 0, P_CMD_IFAGC_NORMAL_TEMP02,22,1 +.1690109000000000e-03
TMCP Lite Sensor 1 0, P_INTERLOCK_CMD_HIGH_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_CMD_LOW_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMP02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_CMD_IFAGC_STRONG_TEMP02,22,1 +.4591619000000000e-05
```

Figure 27. TE2 Parameter Read Screen

1. In 30-60 seconds the read operation will be completed.
- 5) In Windows Explorer, navigate to the folder created in step C(6)(a). Find Parameters.txt created in the previous step. Rename "Parameters.txt" to "INITIAL.txt".
- 6) From the folder created in step C(6)(a), double click the executable "ParameterBASELINE.exe" copied in step C(6)(b). This will verify that the parameters in INITIAL.txt are correct. A window will appear as in figure 29.

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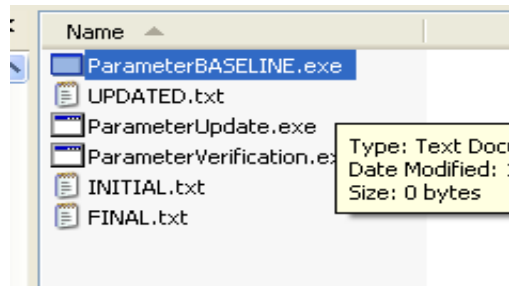


Figure 28. File Select Screen

- 7) If the ParameterBASELINE.exe window indicates a failure, retry this procedure starting from step C(6)(h), or contact your Honeywell Rep.
- 8) Press enter to exit the window when prompted.

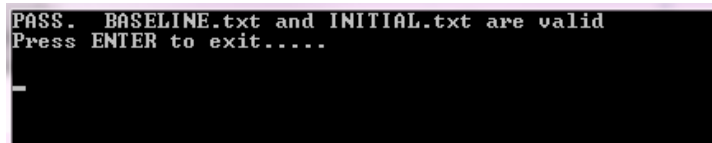


Figure 29. Pass Screen

- 9) If the ParameterBASELINE.exe procedure fails,
 - i. Open BASELINE file and the INITIAL file side by side. Verify the difference between the files is a rounding error of the least significant digit. Note the differing parameter(s)/digits. If the digit is two orders of magnitude less than the most significant digit the rounding will have no impact on the radio performance. Continue to step (j)
 - ii. If the difference is not a rounding issue, contact Honeywell.

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- (j) Create the updated parameter file: "UPDATED.txt"
 - 1) From the folder created in step C(6)(a), double click the executable "ParameterUpdate.exe" copied in step C(6)(b). A window will appear as in figure 31.

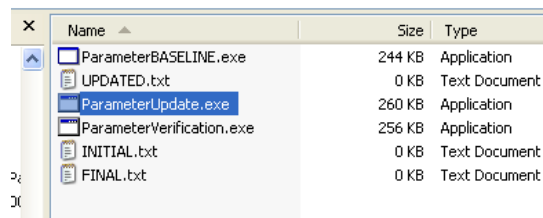


Figure 30. ParameterUpdate.exe Selection Screen

- 2) If the ParameterUpdate.exe window indicates a failure, retry this procedure starting from step C(6)(h), or contact your Honeywell Rep.
- 3) Press enter to exit the window when prompted.

NOTE: This will create a file called "UPDATED.txt."



Figure 31. Alignment Complete Screen

- (k) Update the parameters of the radio with "UPDATED.txt"
 - 1) Return to the TUI window. Select "System" and then "MMDS write..." from the TUI main menu.

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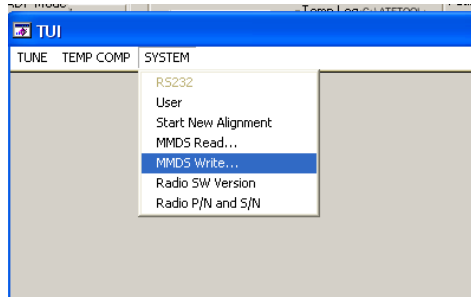


Figure 32. TUI Screen

- 2) In the “Look in” field, navigate to the folder created in step C(6)(a). (it should already be in view)
- 3) Highlight the “UPDATED.txt” file and select “OK.”

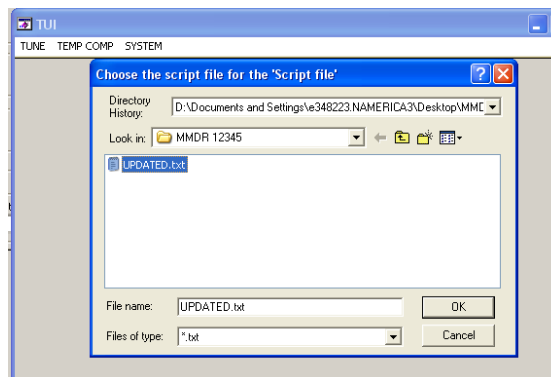


Figure 33. Script File Select Screen

- 4) The TE2 UI starts to write parameters back into the MMDR. The operator can observe the process through the TE2 UI TMCP Text Box.

```
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMPC01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMPC01,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_COM_IFAGC_STRONG_TEMPC01,22,1 +.1707880000000000e-03
TMCP Lite Sensor 1 0, P_COM_IFAGC_NORMAL_TEMPC02,22,1 +.1690109000000000e-03
TMCP Lite Sensor 1 0, P_INTERLOCK_COM_HIGH_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_COM_LOW_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_HIGH_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_INTERLOCK_VDL_LOW_TEMPC02,22,1 +.0000000000000000e-08
TMCP Lite Sensor 1 0, P_COM_IFAGC_STRONG_TEMPC02,22,1 +.4591619000000000e-05
```

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Figure 34. TE2 Parameter Read Screen

- 5) When the text box stops updating for more than 10 seconds, the TE2 UI is finished updating the radio. (It is recommended to wait a full 60 seconds for the update to complete.)
- (l) Read the updated radio parameters back.
- 1) In the TUI window, select “System” and then “MMDS Read...”

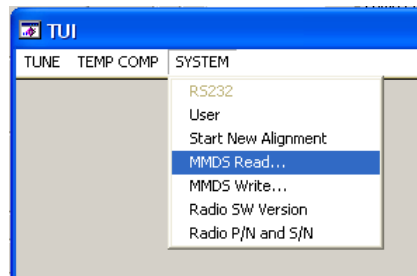


Figure 35. TUI Screen

- 2) Using the pop-up’s “Look in” field, find and select C:\Program Files\te2ui\Read Factory Align Parameters.txt. Select the “OK” button. This instructs the TE2 UI to read parameters from the radio.

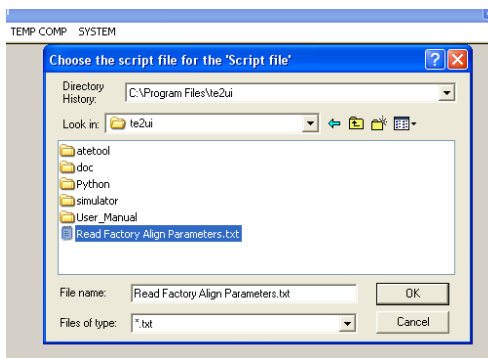


Figure 36. Script File Select Screen

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- 3) Another pop up will appear. Using the “Look in” field, navigate to the folder created in step C(6)(a). In the “File name” field, type “Parameters.txt” and select “OK.” This creates a file containing the results of step C(6)(l)2)

Note: Only single click on the OK. Double clicking on O.K. may cause the original “Read Factory Align Parameters.txt” file to be overwritten and the second window will not pop up anymore. Rerun the installation tool Batch file called "TE2UI_Setup.bat" to recover.

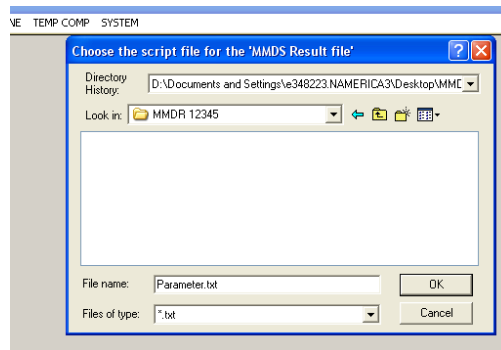


Figure 37. Script file Results Selection Screen

- 4) The TE2 UI starts to read parameters and save to the result text file created in the previous step. The operator can observe the process through the TE2 UI TMCP Text Box.

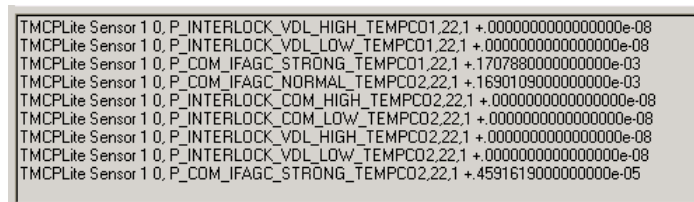


Figure 38. TE2 Parameter Read Screen

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- 5) In 30-60 seconds the read operation will be completed.
- (m) Verify the radio was updated properly
- 1) In Windows Explorer, navigate to the folder created in step C(6)(a). Find Parameters.txt created in step C(6)(i)3). Rename "Parameters.txt" to "FINAL.txt".
 - 2) From the folder created in step C(6)(a), double click the executable "ParameterVerification.exe" copied in step C(6)(b). This will verify that the parameters of the radio have been updated successfully. A window will appear as in figure 40.

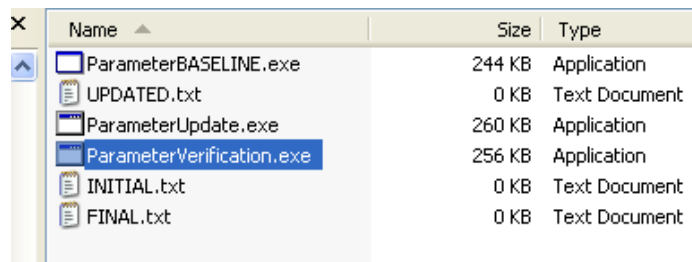


Figure 39. ParameterVerification.exe File Selection Screen

- 3) If the ParameterVerification.exe window indicates a failure, retry this procedure starting from step C(6)(h), or contact your Honeywell Rep.
- 4) Press enter to exit the window when prompted.



Figure 40. Parameters Copied Successfully Screen

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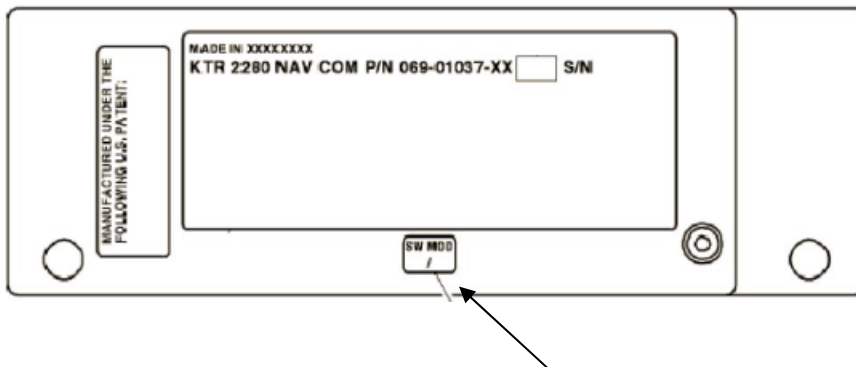
5) Power down the aircraft

D. Reassembly

(1) Not applicable.

E. Identification

(1) Remove the SW MOD tag from the cover of the KTR 2280. Refer to Figure 41. Locate the new SW MOD tag, PN 057-05287-0203, and put it in the same location as the old tag.



Change SW Mod tag to HPN

Figure 41. External Label

F. Testing

(1) Do a test of the MMDR (PN 069-01037-0102). Refer to the RTS (Return to Service) instructions in the AMM or the TESTING AND FAULT ISOLATION section of the CMM.

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