

Create a Defect Log on Each Board Tested with the 5DX Automated X-Ray Inspection System

5DX Version 6.x – 8.x Application Note



Save Time!

These instructions outline the process and files to edit that enable defect logging from the 5DX for each board tested. A list of defects from the 5DX will be recorded after these steps are concluded. This capability is a time-saver when doing on-line fine tuning as the programmer/user will not have to go in and out of the Algorithm Tuner to view the results on Review Defects.

1. Modify the TRCMDPRO.CMD

- It is always a good practice to backup files before even minor edits like this. Backup the TRCMDPRO.CMD file found at \5dx\R8X\master prior to proceeding.
- Open TRCMDPRO.CMD from \5dx\R8X\master by left clicking it and right click Edit on the list of options shown.
- The content should be displayed by the default editor, likely Notepad. Find the active BEGIN and END block (not commented out by ";") as seen in Figure 1 below.

```
BEGIN
  echo ART Block
  mkdir Q:\RES\&TRNAME
  echo Sending JPEG Images to ART
  mkjpg Q:\RES\&TRNAME $(RESROOT)\
&TRNAME\*.tif
  echo Sending Test Results to ART
  copy $(RESROOT)\&TRNAME\*.plr Q:\RES\
&TRNAME
  trcp &TRFILE Q:\RES
  echo Running Auto Reporter
  autorpt -t&TRFILE -ctest.cfg
  echo Deleting Image Files
  cmd /c del /Q $(RESROOT)\&TRNAME\*.
*
;   echo Deleting Image Folder
;   rd $(RESROOT)\&TRNAME
END
```

Figure 1. A sample block for sending results to ITF

- In that block, add "-ctest.cfg" in the autorpt line as shown in Figure 1.
- Normally the autorpt -t&TRFILE row is commented out. If it is, uncomment by removing the ; that is in front of it.
- Save and close the file or save it as a different file name so when you want to use it you can just always exchange the file with the original in use.

Quick info:

-ctest.cfg – is an autorpt command option where:

- ▶ test.cfg – this is a duplicate of autorpt.cfg which you will modify on the following step.
- ▶ -c – is a suffix to indicate that this is the config file.

2. Modify autorpt.cfg and save as test.cfg

- It is always a good practice to backup files before even minor edits like this. Backup the autorpt.cfg file found at \5dx\R82\calib prior to proceeding.
- Open the file called autorpt.cfg inside this directory \5dx\R82\calib using Notepad.
- Edit this file. Find the lines below and add those in red font.

```
;ReportPath=<path name>; Default=
ReportPath=C:\temp
```

- Find the lines below and change Yes to No. (Default is Yes)

```
; ReportDisplay={Yes/No/
IfBadBoard},<timeout count>;
Default=Yes,0
;   If timeout count = 0, no timeout
is activated and a simple menu
;   appears for search and output
functions.
ReportDisplay=No,15
```

- Find the line "ReportWrite=No" and change this to

```
ReportWrite=IfBadBoard, TRName, log
```

- Find the lines below and follow those entries in red.

```
; MeasurementNameColumn=<width>,<leadi
ng spaces>,<title>
;   Default=20,1,Measurement
MeasurementNameColumn=18,3,Measurement
; MeasurementValueColumn=<width>,<lead
ing spaces>,<title>,<decimal places>
;   Default=7,1,Value,2
MeasurementValueColumn=7,3,Value,2
```

- Save autorpt.cfg as test.cfg in the same directory "\5dx\calib"

3. Stop the Automatic Reporter if it is currently running.

- Then run the Automatic Reporter again. This will activate the changes above.

- The user/programmer can test boards and check the log files inside C:\temp. Note that the log files are named after the res filenames. A sample of the generated file content is show in Figure 2.

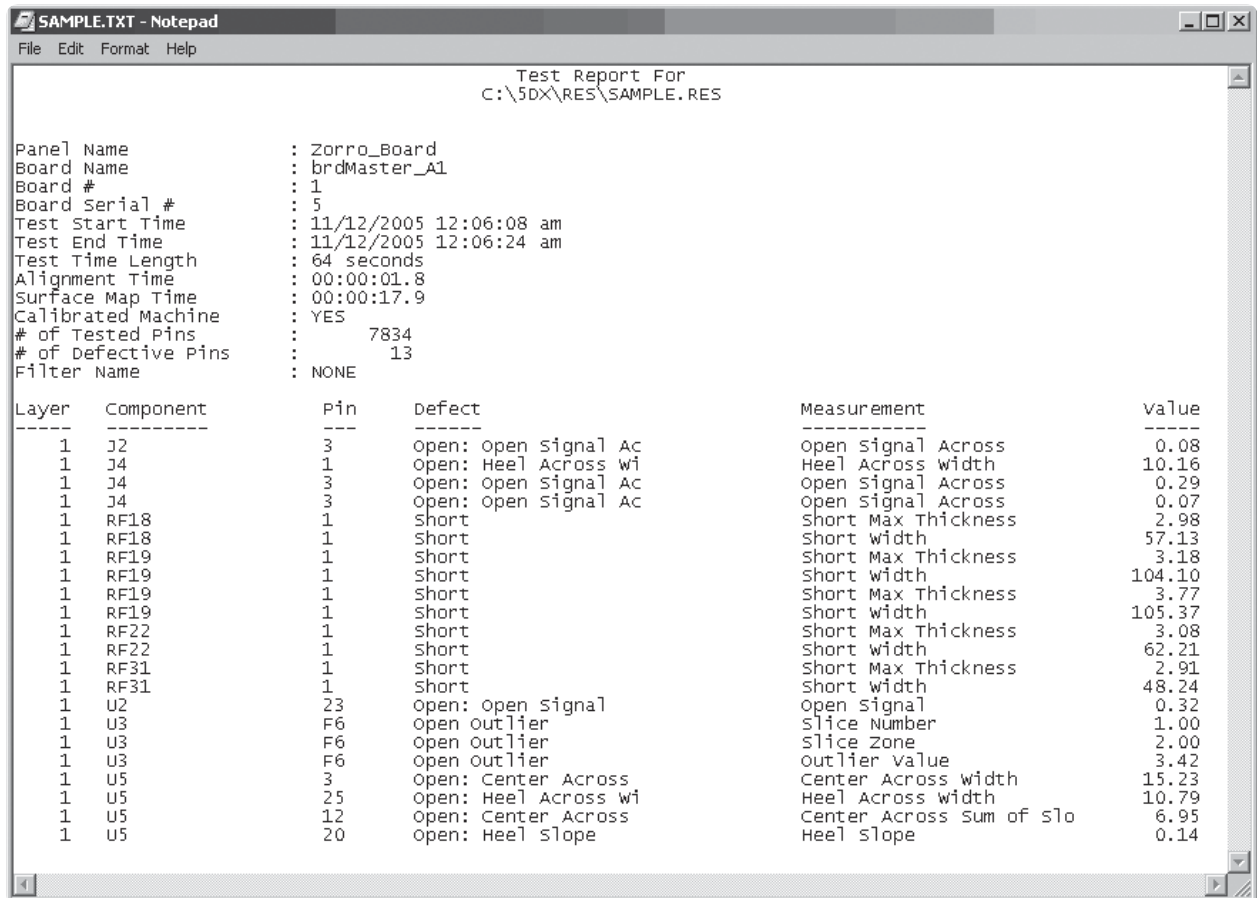


Figure 2. Sample TXT file



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