



T-BERD/MTS 8000 and 6000A

FIBER CHARACTERIZATION CHROMATIC DISPERSION REFERENCING PROCEDURE

QUICK GUIDE

*The following procedure describes how to perform a Chromatic Dispersion referencing with the use of an MTAU and a CD module into a T-BERD/MTS 8000V2. This measurement is done to ensure that the broadband source is taken into account for an accurate qualification of the fiber to test. **This procedure is a two ended test***

Note 1: Both products must be at the same location

Note 2: it is possible to apply a new reference to an existing CD result

*Please read the entire procedure **BEFORE** starting.*



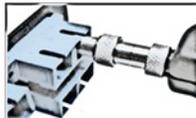
Inspect and clean connectors

Before connecting a fiber into a test module or fiber panel, inspect and clean the bulkhead and the fiber jumper connectors.

1. Connect the P5000i video inspection scope to both units USB port (any)
2. Press the **ON OFF** hard key on the both units to turn-up.
3. Press the **HOME** hard key on the T-BERD/MTS 8000
4. Press the **SYSTEM** hard key on the T-BERD/MTS 6000A or **HOME** if 6000AV2
5. Activate the Microscope  function on both units by touching twice with your finger or stylus.
6. Use the P5000i video inspection scope to verify the connector quality.



Patchcord inspection



Bulkhead and test port inspection

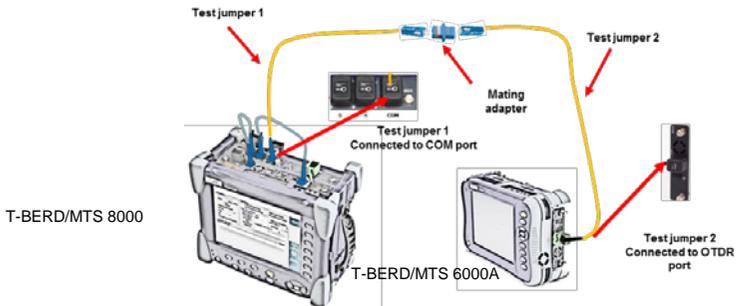
7. Use appropriate cleaning material (e.g. IBC™ cleaner, cotton swab, dust air sprays, etc...) and re-inspect to confirm.

Activating the CD function on the T-BERD/MTS 8000 unit

1. Press the **ON OFF** hard key to turn-up.
2. Press the **HOME** hard key when unit is on.
3. Activate the **CD** test functions by touching twice with your finger or stylus. Wait for the tuning process of the DISAP module (~1min.)
1. Press the **RESULTS** key and touch the **MTAU** tab
2. Select **Out B**

Connecting both test sets

1. Inspect and clean connectors of the fiber jumpers, the COM port of the T-BERD/MTS 8000 and the OTDR port of the T-BERD/MTS 6000A using the P5000i inspection scope.
2. Connect the fiber jumper 1 to the T-BERD/MTS 8000 COM port of the MTAU module and to the mating adapter.
3. Connect the fiber jumper 2 to the T-BERD/MTS 6000A OTDR module and to the mating adapter.



Activate the BBS Source on the T-BERD/MTS 6000A unit

1. Press the SYSTEM **SYSTEM** (6000AV1) or the **HOME** (6000AV2) hard key to go to the home page and



activate the BBS **BBS** function

2. Press the RESULT **RESULT** hard key



3. Touch the soft key to turn the source on



4. Touch the softkey to position the test mode as CD

Performing AP referencing on the T-BERD/MTS 8000

1. Press the **SETUP** hard key.

2. Touch the **CD** tab.

3. Select **Take Reference** **Yes** **No** **Yes**

4. Enter the BBS serial number under **BBS Serial Number** **14** **14**

Note: BBS serial number is displayed on the T-BERD/MTS6000A Results page



5. Press the **SART STOP** key



6. Confirm by pressing YES when the message pops up.

Note: A message "valid Reference" is displayed in green. If not, verify proper connector cleanliness and interconnections then restart referencing process

Saving a reference file on the T-BERD 8000

- Once the reference measurement is done, press key
- Select **Save Mode** **File Only** **File Only**
- Enter the source serial number under **Fiber Number** **14** **14**
- Press the key
- Give it a name **T-BER 6000A CD REF SN xxx** xxx being the BBS serial number, so that you know it contains the reference for T-Berd 6000A SN xxx.

Note 1: This file (ex: T-BERD6000A AP REF SN xxx.ocd") into your T-BERD 8000 unit.

Note 2: Repeat the referencing and saving steps for as many T-BERD 6000A and T-BERD 8000 units

Note 3: It's recommended to save the reference files into a dedicated directory for easy location

Loading a reference file into a T-BERD 8000

- Press the "file" hard key
- Select the directory where the reference files are located. For example:



- Highlight the file that has the requested T-BERD/MTS 6000A reference

- Press the soft key
- Select **Load Trace + Config.** Loading the trace + configuration will take you to the "results" page
- Press the **SETUP** hard key.

Note: You now see 2 reference boxes On says **Reference** and that shows the current reference loaded into the test unit. The lower box says **Trace reference** and that shows the reference information for the trace that is currently loaded (your new reference). It also shows the filename so you can see if it is "T-BERD6000A CD REF SN xxx.ocd", for example.

- Under the **Reference** list, select **Take Reference** **No** **No** **Yes**
- Press the soft key
- The message appears. Select **Yes**

Note: The date and s/n of the reference appear into the **Reference** list. You know the new reference is loaded.

- Follow the above steps to change the reference again