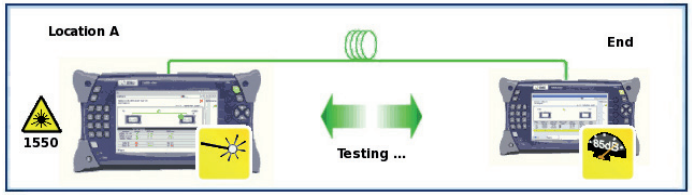
6. Configuring both 4000 Platforms for data storage

1. Press the **File** key and press the lower softkey until **Setup** is selected.
2. Step through the following, selecting and entering specific data relating to your test
   - **Fiber ID** (whatever ID you choose. It will be followed by Fiber # on each file)
   - **Fiber Number** (enter the first fiber # of the ones you will be testing)
   - **Cable ID** (whatever ID you choose)
   - **Direction** (one unit should say A to B and the other should say B to A)
   - **Location A** and **Location B** (here you can name each location)
3. Press the lower soft key until **Explorer** is selected.
4. If you will be storing results in the Hard Drive, select hard drive (alternatively, if using USB memory stick, insert it and select it) and press the softkey **Create Directory**. Enter your directory name and press **Save**.
5. Then select that directory and all your results will be stored in that location.

7. Performing the measurement

As soon as the secondary (2) unit is connected to the fiber, the primary (1) unit detects it (and vice-versa).

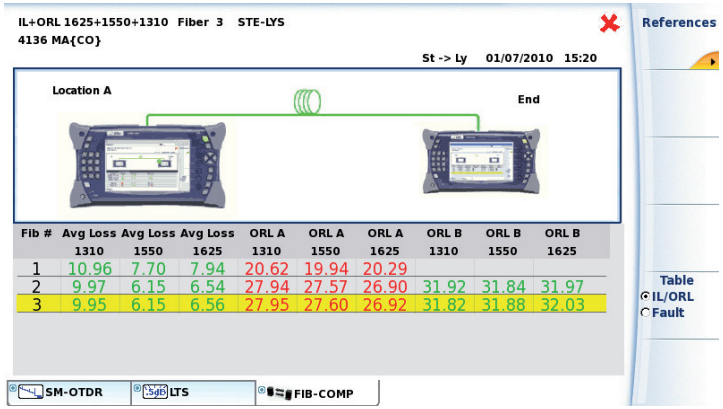
1. Press **Start/Stop** button to launch the measurement.



The test sequence can be initiated from one or the other unit. No additional intervention is necessary until the end of the measurement cycle. At the end of the test, all results are available at the same time.

The OTDR results are only saved on the unit where the measurement has been initiated.

2. Disconnect the fiber. Connect the next one, then test by pressing the green **Start** button.



Fib #	Avg Loss 1310	Avg Loss 1550	Avg Loss 1625	ORL A 1310	ORL A 1550	ORL A 1625	ORL B 1310	ORL B 1550	ORL B 1625
1	10.96	7.70	7.94	20.62	19.94	20.29			
2	9.97	6.15	6.54	27.94	27.57	26.90	31.92	31.84	31.97
3	9.95	6.15	6.56	27.95	27.60	26.92	31.82	31.88	32.03

FiberComplete Results: Cable View

4000 PLATFORM QUICK CARD

FIBERCOMPLETE: BIDIRECTIONAL IL/ORL, DISTANCE & UNIDIRECTIONAL OTDR MEASUREMENT

The following procedure outlines how to use the 4000 platform with FiberComplete Module to fully qualify a fiber link: bidirectional IL, bidirectional ORL, length/distance and OTDR.

These measurements are performed to ensure that the fiber link meets performance levels that support network equipment (transmitter/receiver) specifications.

Please read the entire procedure BEFORE starting.

4000 Platform - Quick Card "FiberComplete: Bidir. IL/ORL & Unidir. OTDR Measurement" – Ref 770000038/02 – Mar. 2011 – © 2011 JDSU Corporation

1. Inspect and clean connectors

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

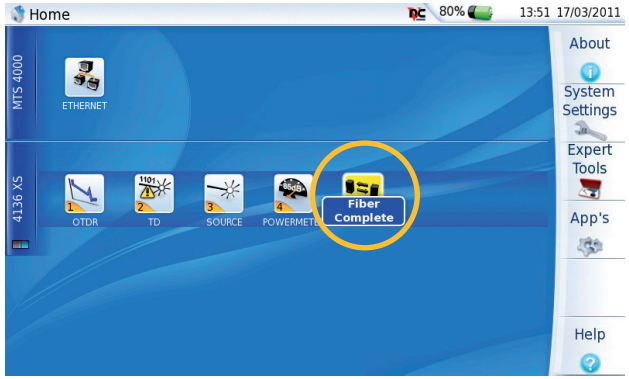
- Use standard single fiber patch cords.
- Use video inspection scope / probe to inspect connector endfaces for dirt and/or damage. Inspect ALL connectors including bulkheads and test ports

2. Connect and turn both units on

1. Connect a fiber jumper to the main module port of each product.
2. Press the **On/Off** hard key to turn both units on and wait the completion of auto-test (~ 45 seconds).

3. Activate the FiberComplete function on both products

1. Press the **Home** hard key and use the arrow keys or touchscreen to select the Fiber Complete function (doesn't display Fiber Complete until you select it) .



Home page

2. Press **Result** or **Enter** hard key to go to the FiberComplete result page.

4. Perform the referencing

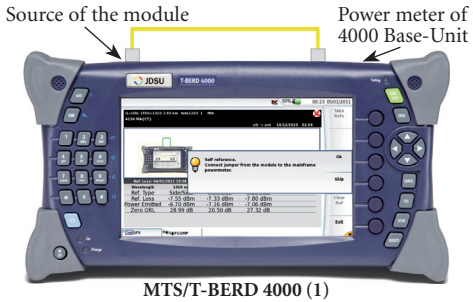
The references are valid for all fibers that will be tested during the day with the same patch cords. The patch cords should not be disconnected from the main module port, otherwise a new reference will need to be performed

The Power Meter option is mandatory onto the 4000 Mainframe.
Each test equipment must set its own references and conform to the following process:

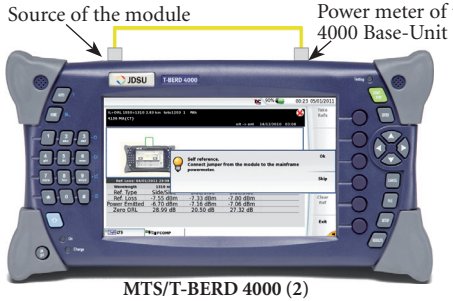
1. Press **Results** button
2. Press the soft key **References** and then **Take Refs** and follow the step by step instructions to perform references on each unit.
3. Choose **Loopback** for your loss referencing method.

The loopback referencing is used when the two units are at different location. After clicking on **Loopback**, the wizard will guide you through two steps:

4. The self reference is used for loss and ORL testing. Connect the jumper from the module port to the mainframe powermeter and press **Ok** to start referencing.



MTS/T-BERD 4000 (1)



MTS/T-BERD 4000 (2)

The reference values are stored and displayed at the end

5. The zero ORL reference is necessary for ORL testing. Once the self reference measurement has been carried out, the Zero ORL adjustment can be performed
Connect the jumper from the module port to the non-reflective termination via a mating sleeve. If you don't have a non-reflective termination, a mandrel can be used. Press **Ok** to start referencing.

Non-reflective terminations are mandatory when bend insensitive jumpers are used.

5. Configuring both 4000 Platforms to perform the measurement

1. Press the **Setup** key and set the **Acquisition** parameters to:
   - Laser: **1310 & 1550 nm**
   - ORL Measurement: **Bidir.**
   - Loss Measurement: **Bidir.**
   - Length Measurement: **Yes**
   - OTDR Measurement: **Auto**
2. Set **Results Screen** to:
   - Table View **Cable** or **Fiber** depending on what is being tested.
   - Thresholds **User 1**: define your own thresholds at each wavelength based on your network requirements for Loss and ORL.

1 Acquisition	
Laser	All
Loss Measurement	Bidir.
ORL Measurement	Bidir.
Length Measurement	No
OTDR Measurement	Auto
Fault Finder	No

2 Results Screen	
Unit	km
Table View	Fiber
Thresholds	USER 1
Loss	
ORL	

FiberComplete Setup menu

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