# 81000NI-01A

# S E R V I C E  N O T E

Supersedes:
NONE

## 81000FI Connector Interface FC/PC (wide key)
## 81000NI Connector Interface FC/PC (narrow key)

**Serial Numbers: N/A**

**81000FI and 81000NI keying**

**Parts Required: NONE**

ADMINISTRATIVE INFORMATION

| SERVICE NOTE CLASSIFICATION: |
|---|
| **INFORMATION ONLY** |
| AUTHOR: CaHo PRODUCT LINE: PL3E |
| ADDITIONAL INFORMATION: |


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**Situation:**
Agilents offers two kinds of FC/PC connector interfaces according to the current FC/PC N-key and FC/PC R-key standards. The 81000FI FC/PC connector interface applies to the N-keying, the 81000NI connector interface mates to the R-keying. The keying ensures the rotational alignment of the connection.

Using the wrong connector interface for the particular FC/PC keying either prevents physical contact of the connectors or leads to rotational misalignment.

**Solution/Action:**

Currently, two models of the 81000FI FC/PC connector interface are in use.
The old one – manufactured and sold until April 2001 – shows a connector slot width of 2.50mm nominal. **The actual 81000FI model has a connector slot width of 2.20mm nominal**.
The 81000FI is intended for FC/PC connectors with 2.14mm alignment key (N-key).

**The 81000NI connector interface fits to FC/PC connectors with 2.00mm key width (R-key)**.

→ It's recommended that customers order/use the FC/PC interface dependent on the key width of their FC/PC connectors.

**NOTES:**
The rotational alignment is not relevant for Agilents non-physical contact power sensors with recessed lens interface (e.g. 81634B). Thus it's recommended to use the 81000FI for greater flexibility.

Especially in case of angled physical contact connections it's important to prevent rotational misalignment. Therefore it's not recommended to use the old 2.50mm 81000FI with N-keyed FC/APC connectors.

Refer to the following figure for details and the distinction of the 81000FI (old and new model) and the 81000NI.

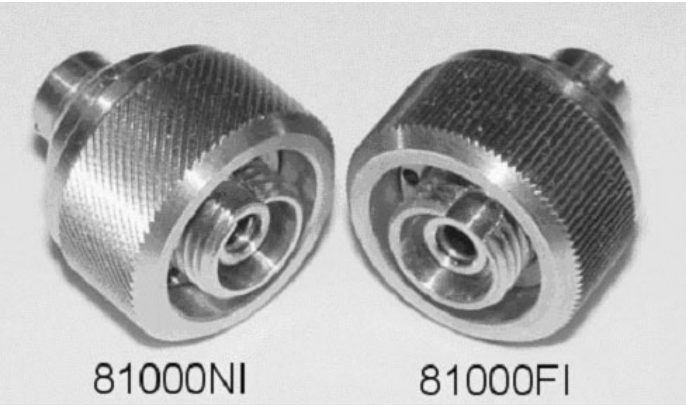
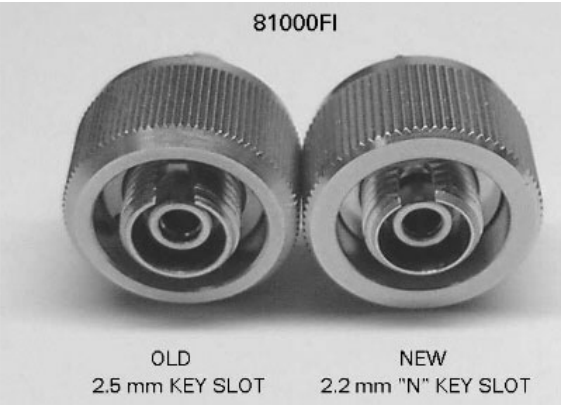



**Figure 1: a) 81000NI and 81000FI (old, 2.50mm key)**




**b) 81000FI: old model, 2.50mm key and actual model, 2.14mm key**