

Full Duplex Handsfree Cartridge Installation and Reference Card

This installation and reference card describes how to install and use the Full Duplex Handsfree (FDHF) Cartridge (NTMN72AA) with your M3904 Release III Meridian Digital Telephone.

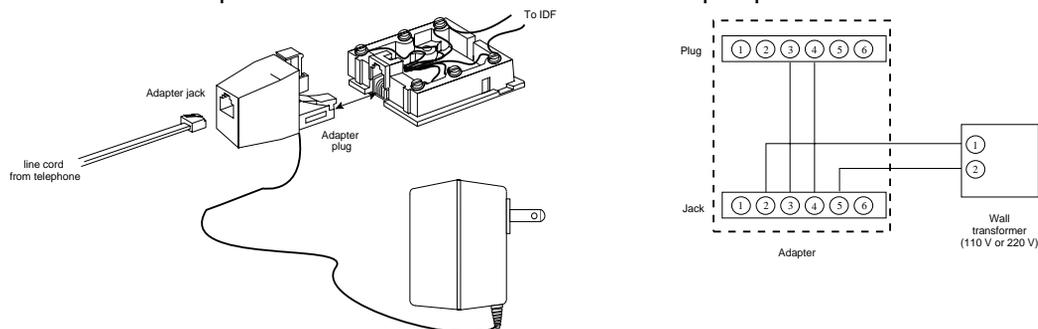
The FDHF cartridge allows simultaneous two-way communication during a handsfree telephone call.

How to connect the FDHF cartridge

Install an Accessory Connection Module (ACM) (NTMN71AA) into your M3904 Release III Meridian Digital Telephone (NTMN34GA) before you install your FDHF cartridge. Please refer to the ACM Installation sheet. The ACM provides connection capabilities between the M3904 telephone and the FDHF cartridge.

To install the Full Duplex Handsfree (FDHF) cartridge:

1. Check that your telephone is an M3904 Release III set (NTMN34GA) by looking at the label on the back. If it is, please continue to step 2. If it is not, the FDHF cartridge is not compatible with your telephone. Please contact your network administrator for more information.
2. Insert the FDHF cartridge into the ACM. The latch should be at the top.
3. Plug the wall transformer into an electrical outlet (use only the transformer designed for your ACM accessories). The following transformers are approved for use with the FDHF cartridge:
 - 110V wall transformer (NTMN80AA)
 - 220V wall transformer (NTMN80BA)
 - EU 230V wall transformer (NTHC08AA)
 - UK 230V wall transformer (NTHC09AA)
4. Disconnect the telephone line cord from the telephone wall jack (see figure below)
5. Connect the Adapter plug, attached to your transformer, to the telephone wall jack.
6. Connect the telephone line cord to the wall transformer adapter jack.



7. Verify that the FDFH cartridge is working properly. The cartridge is operating properly when the red LED on the cartridge is flashing and when 18 segments are displayed on the volume bar during handsfree volume adjustment. Half-duplex displays only 12 segments.

Operating Parameters

The receive audio level is attenuated during the FDHF mode while both you and the party you are speaking with are conversing; therefore, you may notice fluctuations in the receive volume during a FDHF call.

During a call, the FDHF cartridge can be removed or inserted into the ACM without interrupting the established call. If the FDHF cartridge is removed, half-duplex operation is restored.

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FDHF cartridge interoperability

	Meridian External Alserter and Recorder Interface (MEARI)	Computer Telephony Integration Adapter (CTIA)	Analog Terminal Adapter (ATA)	Personal Directory PC Utility Cartridge
Full Duplex Handsfree (FDHF)	See Note	Yes	No	Yes
Note: FDHF works with the MEARI external alserter functionality; however, FDHF does not work with MEARI when a recording device is connected.				

Status light indicator

A red LED status light located on the FDHF cartridge indicates the status of the cartridge.

- **Flashing red** indicates that the cartridge is operating normally.
- **Solid red** indicates that the cartridge is not operating normally. Contact your network administrator.
- **Red light off** indicates that there is no power going to the cartridge or the cartridge is not operating correctly. Check the power connections to the cartridge. If problems continue, contact your network administrator.

Enable Handsfree on an existing M3904 on the Meridian 1 for use with the FDHF cartridge*

Configure in LD 11

Prompt	Response	Description
REQ	CHG	Change a feature on an existing M3904 telephone.
TYPE	3904	Telephone type must be M3904. (3904=M3904) Full Duplex Handsfree functionality requires an M3904 Release III telephone.
...		
CLS	HFA	HFA = Handsfree Allowed HFD = Handsfree Denied (default).
...		

Enable Handsfree on an existing M3904 on the Meridian SL-100 for use with the FDHF cartridge*

Configure via SERVORD

Prompt	Response	Description
SO:	Chf	Change a feature on an existing M3904 telephone.
...		
OPTKEY:	1	Enter the key number assigned to the Primary DN.
OPTION:	hndsfree	Enter "hndsfree" for the Handsfree option.
HANDS_FREE	y	Enter "y" for yes.
...		

***Note:** If you are installing the Full Duplex Handsfree Cartridge on an M3904 that already has Handsfree enabled, you do not need to make any changes in LD 11 on the Meridian 1 or in SERVORD on the Meridian SL-100.