

1553 NETWORK TESTER - MODEL DBT100A

The DBT100A is an easy-to-use battery-powered, handheld tester able to quickly troubleshoot or test out a MIL-STD-1553B data bus network. By means of several press-to-test switches, an LCD display and nine pass/fail LEDs, the DBT100A can detect shorts, opens, crossovers and shorts-to-shield on the bus and stubs. These checks are to be performed from the LRU ends of the stub cables only. One of the test modes, DC Resistance, can be used as a general purpose ohm meter with a range of 0 to 199.9 ohms (see Fig.1.).

A remote unit is provided for the phase/crossover test (see Fig. 2.). The tester operates with a common 9V alkaline or rechargeable nicad battery (the kind used in radios and smoke detectors) that is readily available. A battery charger is provided to charge the batteries. Longer battery life is made possible by the press-to-test feature of the tester. To conserve battery life the circuit in the remote unit is in an idle, or "keep alive" mode, when not actually being interrogated. There is a master on/off switch on the remote unit.

*North Hills Application Note 255 - "North Hills Model DBT100A Network Tester User's Guide" provides further information on the operation of the tester.

The display consists of LED go/no-go indicators and a 0.4 inch, 3 1/2 digit LCD readout for the ohm-meter mode (0 to 199.9 Ohms).



North Hills 1553 Network Tester, Model DBT 100A in storage case.

Features:

- Go/No-go indicators
- Operating instructions on tester
- Battery operation - standard batteries

Benefits:

- Fast, easy testing
- One-man operation
- Detects all common problems: shorts, opens, shorts-to-shield, crossovers/phasing

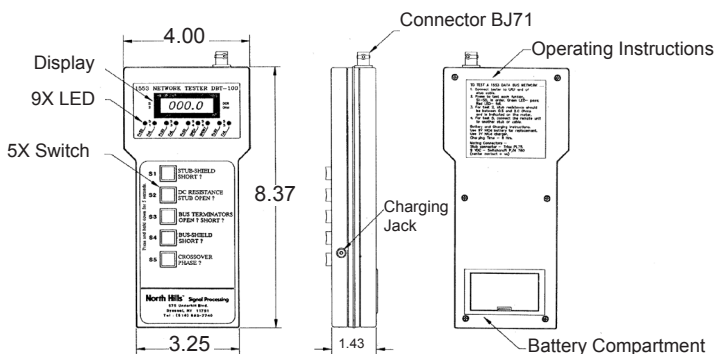


Fig 1. Main Unit.

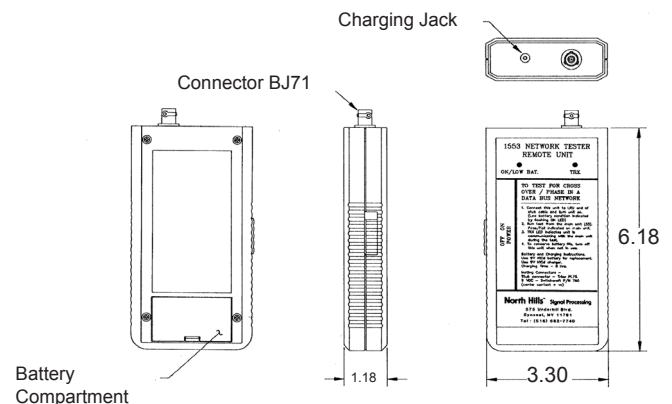


Fig 2. Remote Unit.



1553 NETWORK TESTER - MODEL DBT100A

The DBT100A is an easy-to-use battery powered, handheld tester able to quickly troubleshoot or test out a MIL-STD-1553B data bus network.

Specifications:

Main unit:		
Displays	DC Resistance	0.4 inch, 3 1/2 digit LCD 0 to 199.9 Ohms
	Shorts and opens	LED: Green = Pass, Red = Fail
	Common Mode	LED: Green = Pass, Red = Fail
	Shorts-to-shield	LED: Green = Pass, Red = Fail
	Crossover/phase	LED: Green = Pass, Red = Fail
	Battery Low	Indicated by flashing LED
	Test Method	Press-to-Test

Remote unit:		
Displays	Power on	Red LED
	XMT	Green LED
	Battery low	Indicated by flashing LED
Batteries		Standard 9V DC (supplied)
Battery life		10 hours (assuming 20% duty cycle)*
Battery charger		115VAC, 60 Hz
Charging Time		6-8 hours
Bus connector		3-lug 70 series. Mating connector is 571-10-6302 (Trompeter PL75 type)
Temperature (Storage)		-40 to +50 degrees centigrade
Temperature (Operating)		-10 to +50 degrees centigrade
*Assuming continuous use with 20% duty cycle. Under normal usage a battery set should last for several 8-hour days.		

Cable Sets:

The tester is provided with two 3-foot MIL-STD-17/176-00002 cables with a PL73 push-on type connector on each end. Other cables and adapters are available as listed below. All cables listed are three feet long. Consult the factory for custom cables or adapters.

P/N	Connectors	Descriptions
N14017-060	PL73/PL73	Mates with any 70-series jack
N14017-061	PL73/PL153	Mates with any 150-series jack
N14017-062	PL73/Pig Tails	For mounting your connector
N14017-063	PL73/M39029/91	Mates with M39029/90 contact
N14017-064	PL73/M39029/90	Mates with M39029/91 contact
N14017-065	PL73/20 AWG pins	Mates with 20 AWG sockets
N14017-066	PL73/20 AWG sockets	Mates with 20 AWG pins
571-10-8327	BJ70/BJ70 Adapter	70-series jack barrel adapter
571-10-8301	BJ150/BJ150 Adapter	150-series jack barrel adapter
571-10-8328	BJ70/PL155	BJ70-to-PL155 adapter
571-10-8329	BJ70/PL375	BJ70-to-PL375 adapter
571-10-8330	BJ70/PL3155	BJ70-to-PL3155 adapter
NH14202		Adapter for MACAIR bus
NH14203		Adapter for Honeywell bus
NH14204		Adapter for MIL-STD-1553A
NH14017C		Carry case
NH14017K		Calibration device
NH14753		Adapter for H009 bus (F-15)

Ordering Information:

Model DBT100A consists of the following:

NH14017MA	Main Unit
NH14017R	Remote Unit
NH14017BC	Battery Charger (2)
N14017-060	Cable Assembly
PL73	3 ft. (2)

9V Alkaline or Nicad Batteries

Order DBT100A for all items. For 220V power applications specify DBT100A-220