

# Paladin Tools®

## LAN ProNavigator® Data & Coaxial Network Tester

### Auto-off power save circuit:

1. The main tester has an automatic power shut down circuit to save battery life. The power to the unit will turn off after approximately 20 seconds of non-use during normal testing and fault check operations, and 30 minutes in tone mode. To prevent power shut down, periodically press the "Fault Check/Tone" switch.
2. Pressing the "On/Test" switch after a test will turn the unit off.

### Low battery test and indication:

1. To determine if you have a low battery in your tester, connect a known good data patch cable between the main tester and remote unit.
2. Press the "ON/TEST" button to turn the unit on.
3. Press the "ON/TEST" button to initiate a test.
4. If after initiating the test the "POWER" light flashes on and off, the battery is low and needs to be replaced.

### READ BEFORE USE:

1. Connect battery prior to **first use**.
2. Never open the cases of the main tester or the remote. Access battery through the battery door provided.
3. Do not use in high moisture environments.
4. Use the provided screws to attach the belt clips to the main test unit.
5. The One-Year Limited Warranty covers materials and workmanship. Normal wear and tear, or damage due to misuse is not covered under the warranty.
6. This test system does not test for network frequency, cross talk (NEXT), decibel level, data packets, bandwidth, headroom, attenuation, transmission rate, or live circuit line indication.
7. Split pair detection requires a minimum cable length of 6' (2 m). Cables of less length may have incorrect test results indication.
8. Last test memory maintained until unit is turned off.
9. Testing of UTP (unshielded) cables will cause the SHD (shielded) light to flash after a test. This is a normal indication showing the cable is not shielded.
10. Quick instructions for unit operation are located on the back side of the tester.

### Technical Data

Type	Main Tester	Standard Remote
Power Requirements	9-volt battery	None
Operating Temp.	32° - 110° F	32° - 110° F
Storage Temp.	10° - 120° F	10° - 120° F
Output Signal	dc-2 Mhz Pulse	None
Weight	5.6 oz.	1.6 oz.
Battery Life*	1000 tests	N/A

\*Battery life based on standard non-alkaline batteries

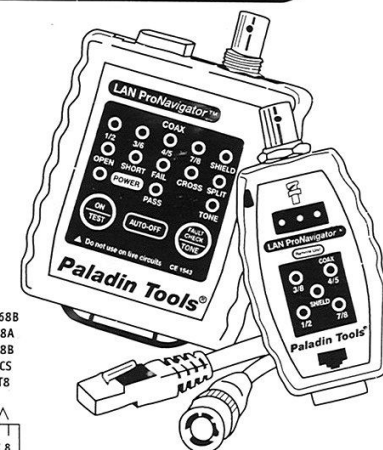
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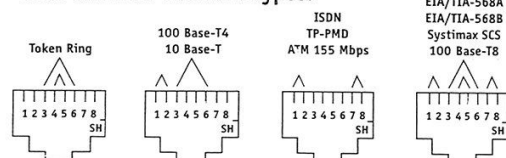
## LAN ProNavigator® Data & Coaxial Network Tester

### Operating Instructions for:

- 1543 LAN ProNavigator®
- 901066 LAN ProNavigator® Professional Kit
- 1544 LAN ProNavigator® Replacement Remote



### Tests common network types:



### Do not use on live circuits

### Function

#### ■ Tests:

- Continuity of data, telephone and coaxial cables up to 320' (100 m), unshielded twisted pair (UTP), shielded twisted pair (STP) and 50- and 75-ohm coax
- Proper pairing to EIA/TIA-568A and B for Cat-4, Cat-5, Cat-5e, Cat-6, ISDN, Token Ring, 10 Base-T, 100 Base-T, 258A and other common network types

#### ■ Detects:

- Opens, shorts, cross-connections, transposed pairs and split pairs — 6' (2 m) to 320' (100 m)
- Generates oscillating audio tone for tracing cables using remotes or tone probes

### Features/Benefits

- Super quick test results in one second — simple "PASS" or "FAIL"
- User optional "FAULT CHECK" to troubleshoot cable failures
- Test status report on both ends of cable — main and remote unit indicators
- Auto-off power shut down conserves batteries
- Low battery indication and test
- Belt clips and patch cables provided
- 9V battery included

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## Operating Instructions:

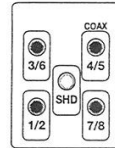
### Indicator Light Reference:



#### Testing UTP cables:

- Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to the cable ends.
- Press = **POWER "ON"**
- Press = **"ON/FLASH" + "ON" (Cable Good)**  
**OR** = **"ON/FLASH" + "ON" (Cable Faulty)**
- Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

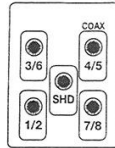
Remote indications for a good UTP cable



#### Testing STP cables:

- Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to the cable ends.
- Press = **POWER "ON"**
- Press = **"ALL ON" + "ON" (Cable Good)**  
**OR** = **"ALL ON" + "ON" (Cable Faulty)**
- Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

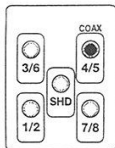
Remote indications for a good STP cable



#### Testing coaxial cables:

- Connect the main tester to the hub using a patch cord. Connect the remote unit to the wall jack using a patch cord. If testing cables, attach units directly to the cable ends.
- Press = **POWER "ON"**
- Press = **"COAX/SHD" + "ON" (Cable Good)**  
**OR** = **"COAX/SHD" + "ON" (Short-Bad)**  
**OR** = **"ON/FLASH" + "ON" (Open-Bad)**
- Test complete. Go to the next cable test, or perform a "Fault Check" operation to troubleshoot faulty cables. Do not press the "ON/TEST" button. This will turn off the tester and prevent a "Fault Check" from being performed.

Remote indications for a good coax cable

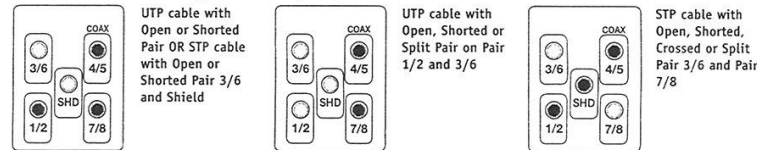


#### Fault check for troubleshooting faulty cables:

- Do not turn off the tester after performing a test. The tester must remain on to retain test results.
- Press = **"1st Pair to be checked" + "ON" (Pair 1/2 Good)**
- Press = **"2nd Pair to be checked" + "ON" (Pair 3/6 Bad)**
- Step through the pairs 1/2 through SHD by continuously pressing the "Fault Check/Tone" button. View the test status of each pair as shown by the examples above. The various test result status indications are as follows:  
 OPEN   SHORT   FAIL   CROSS   SPLIT   AND   PASS

Note: An indication of "Cross" means the pairs are either swapped, transposed, crossed with another pair, or has one wire of the pair swapped with a wire of another pair. A "Split" indicates split pair — one wire of one pair is switched with one wire of another pair, occurring at both ends of the cable, but is still wired through on a 1-to-1 basis. Split Pair is an indication of excessive cross-talk (noise) due to unmatched pairs.

#### Examples of faulty cable indications on the remote units:

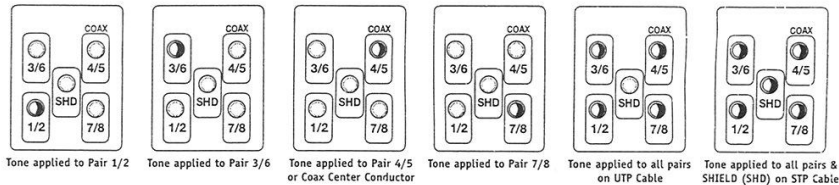


The remotes will only show lights for pairs without faults

#### Tone mode for pair identification, cable tracing and troubleshooting:

- An oscillating audio tone is selectively applied to individual pairs or all lines for tracing.
- Press and HOLD for 5 seconds = **"Tone applied to Pair 1/2"**
- Press = **"Tone applied to Pair 3/6"**
- Press = **"Tone applied to Pair 4/5 or Coax Center Conductor"**
- Press = **"Tone applied to Pair 7/8"**
- Press = **"Tone applied to all pairs and Shield (SHD)"**

#### Remote indications:



Note: Due to the low signal output level of the tester, tone applied to individual pairs has a lower volume (when using a tone probe to hear the signal) than when applying the tone to all pairs. For highest volume level to trace cables, it is recommended to apply the tone to all pairs (see step 6 above).

- To trace individual pairs for troubleshooting, apply tone only to the required pair as shown in steps 2 - 5.