# SCSI & Universal Cable Tester

## *User Manual*

**Model:** 258881

**Hobbes Computer Network Accessories**

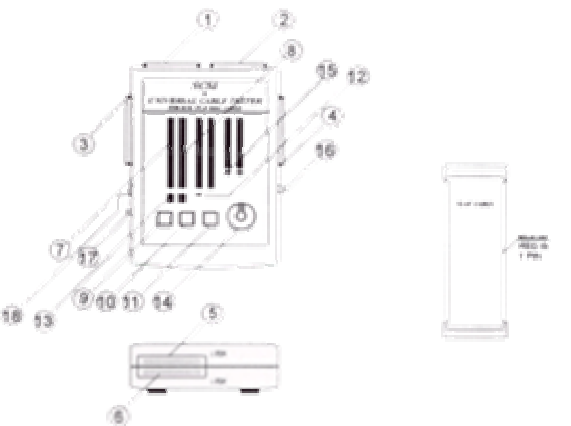
**www.hobbes-usa.com**

# A. Introduction

Do you have a headache trying to find if your SCSI connection has a problem? How will you know if your expensive high density SCSI cable will work properly? The SCSI & Universal cable tester is the perfect solution. It can check up cable pin configuration up to 68 wires by comparing one transmitting end to the other corresponding receiving end. It can easily test for cable continuity, miswire, open, and shorted wires in your cables, also, with the optional PC or MAC Cable Test Interface Unit, it can be expanded to test most of PC or MAC. cables, too, such as data cable, multimedia cables, Powerbook cables, Ethernet cables, modular cables, and even the upcoming USB cables. If you own the complete SCSI & Universal Cable Tester Kit you will not have anymore headache trying to find out if you have a cable problem.

# B. Product Profile

1. TX Connector (1.27m/m half pitch 50 pin, pin type, female connector)
2. RX Connector (1.27m/m half pitch 50 pin, pin type, female connector)
3. TX Connector (1.27m/m half pitch 68 pin, pin type, female connector)
4. TX Connector (1.27m/m half pitch 68 pin, pin type, female connector)
5. RX Connector (40 pin box header IDC type)for extension test
6. TX Connector (40 pin box header IDC type)for extension test
7. LED Indicator of TX port
8. LED Indicator of RX port
9. Cable wire numbers selector
10. Reset switch
11. Test switch
12. Battery low indicator
13. Cable wire numbers LED display
14. LED scanning speed rotary switch
15. Ground pin indicator
16. Auto/Manual scan switch
17. Power switch
18. DC power jack 2.5 g AC to DC'. 9V



# C. Operation

1. Plug in one end of the tested cable to the left socket and another end to the right socket (Please refer to Fig. 1)

   **Note:** *Do not connect both ends of the tested cable in the same side of the tester as it may cause a wrong reading or damage the tester. (Please see the Fig.2)*

(Fig. 2)

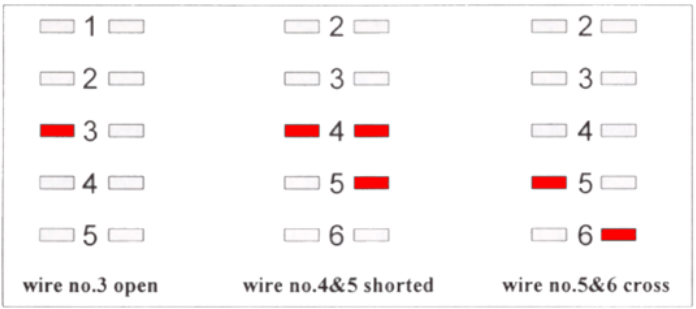
(Fig. 1)

2. Turn the power switch to the on position. Then the LEDs display will light on. It will not be moving down when the scan switch is locked on the manual mode, or start to scan, in order, when the scan switch is locked on the auto mode.
3. Push the scan switch button to select the LEDs scanning by manual or by auto.
4. Push the cable wire numbers selector button to the right numbers of the wire to be tested.

**Note:** The wire numbers 9,15,25,36 is provided to test the PC or Mac data cables when you extend this SCSI tester unit with an optional PC Cable Test Interface Unit or Mac Cable Test interface Unit.

5. Push the reset switch to return the LEDs to pin 1
6. If the LEDs scan switch was set on the auto mode, a LED scanning speed rotary switch was provided to adjust the LED scanning speed. Turning the switch clockwise makes the scanning speed faster, If the LEDs scan switch was set on manual mode, you have to push the test switch one by one then read each LED display corresponding to each pin connection status.
7. If you are going to test the grounding of the cable. Switch the cable wire numbers selector to the ' G ' position.

## D. Explanation for LEDs display: (See Fig. 3)




(Fig.3)

### Remarks

1. The tester will always send a signal from the left end to the right end in order and the LEDs in the left side will be lighted up by each pin. If any LED on the left side is not lighted up then the LED is damaged.

2. The tester can not tell you which end the problem is coming from.

3. The tester is provided with two IDC 40 pin connectors which can extend the unit to test PC or Macintosh data cables by connecting with a optional PC Cable Test Interface Unit or Mac Cable Test Interface Unit.

4. If you are going to test a Centronics type half pitch cables or others then you have to use a correct adapter cable. Ask your distributor for the right information.

5. To save the battery power, don't forget to switch off the power switch if you are not going to operate it in a while.

## E. Regular SCSI pin out for references

### SCSI-3 to SCSI-3

**Half pitch DB/CEN 68 to 68**

| | | | |
|---|---|---|---|
| 01 | 01 | 35 | 35 |
| 02 | 02 | 36 | 36 |
| 03 | 03 | 37 | 37 |
| 04 | 04 | 38 | 38 |
| 05 | 05 | 39 | 39 |
| 06 | 06 | 40 | 40 |
| 07 | 07 | 41 | 41 |
| 08 | 08 | 42 | 42 |
| 09 | 09 | 43 | 43 |
| 10 | 10 | 44 | 44 |
| 11 | 11 | 45 | 45 |
| 12 | 12 | 46 | 46 |
| 13 | 13 | 47 | 47 |
| 14 | 14 | 48 | 48 |
| 15 | 15 | 49 | 49 |
| 16 | 16 | 50 | 50 |
| 17 | 17 | 51 | 51 |
| 18 | 18 | 52 | 52 |
| 19 | 19 | 53 | 53 |
| 20 | 20 | 54 | 54 |
| 21 | 21 | 55 | 55 |
| 22 | 22 | 56 | 56 |
| 23 | 23 | 57 | 57 |
| 24 | 24 | 58 | 58 |
| 25 | 25 | 59 | 59 |
| 26 | 26 | 60 | 60 |
| 27 | 27 | 61 | 61 |
| 28 | 28 | 62 | 62 |
| 29 | 29 | 63 | 63 |
| 30 | 30 | 64 | 64 |
| 31 | 31 | 65 | 65 |
| 32 | 32 | 66 | 66 |
| 33 | 33 | 67 | 67 |
| 34 | 34 | 68 | 68 |
| | | shell | shell |

### SCSI-3 to SCSI-2

**Half pitch DB/CEN 68 to Half pitch DB/CEN 50**

| | | | |
|---|---|---|---|
| 06 | 01 | 49 | 35 |
| 07 | 02 | 50 | 36 |
| 08 | 03 | 51 | 37 |
| 09 | 04 | 52 | 38 |
| 10 | 05 | 53 | 39 |
| 11 | 06 | 54 | 40 |
| 12 | 07 | 55 | 41 |
| 13 | 08 | 56 | 42 |
| 14 | 09 | 57 | 43 |
| 15 | 10 | 58 | 44 |
| 16 | 11 | 59 | 45 |
| 17 | 12 | 60 | 46 |
| 18 | 13 | 61 | 47 |
| 19 | 14 | 62 | 48 |
| 20 | 15 | 63 | 49 |
| 21 | 16 | 64 | 50 |
| 22 | 17 | shell | shell |
| 23 | 18 | | |
| 24 | 19 | | |
| 25 | 20 | | |
| 26 | 21 | | |
| 27 | 22 | | |
| 28 | 23 | | |
| 29 | 24 | | |
| 30 | 25 | | |
| 40 | 26 | | |
| 41 | 27 | | |
| 42 | 28 | | |
| 43 | 29 | | |
| 44 | 30 | | |
| 45 | 31 | | |
| 46 | 32 | | |
| 47 | 33 | | |
| 48 | 34 | | |

# F. Regular SCSI pin out for references

## SCSI-3 to SCSI-1

**Half pitch DB/CEN 68 to Cen (RC)50**

| | |
|---|---|
| 06 ------ 01 | 49 ------ 35 |
| 07 ------ 02 | 50 ------ 36 |
| 08 ------ 03 | 51 ------ 37 |
| 09 ------ 04 | 52 ------ 38 |
| 10 ------ 05 | 53 ------ 39 |
| 11 ------ 06 | 54 ------ 40 |
| 12 ------ 07 | 55 ------ 41 |
| 13 ------ 08 | 56 ------ 42 |
| 14 ------ 09 | 57 ------ 43 |
| 15 ------ 10 | 58 ------ 44 |
| 16 ------ 11 | 59 ------ 45 |
| 17 ------ 12 | 60 ------ 46 |
| 18 ------ 13 | 61 ------ 47 |
| 19 ------ 14 | 62 ------ 48 |
| 20 ------ 15 | 63 ------ 49 |
| 21 ------ 16 | 64 ------ 50 |
| 22 ------ 17 | shell------shell |
| 23 ------ 18 | |
| 24 ------ 19 | |
| 25 ------ 20 | |
| 26 ------ 21 | |
| 27 ------ 22 | |
| 28 ------ 23 | |
| 29 ------ 24 | |
| 30 ------ 25 | |
| 40 ------ 26 | |
| 41 ------ 27 | |
| 42 ------ 28 | |
| 43 ------ 29 | |
| 44 ------ 30 | |
| 45 ------ 31 | |
| 46 ------ 32 | |
| 47 ------ 33 | |
| 48 ------ 34 | |

## SCSI-2 to SCSI-1

**Half pitch DB/CEN 50 to Cen (RC)50**

| | |
|---|---|
| 01 ------ 01 | 34 ------ 34 |
| 02 ------ 02 | 35 ------ 35 |
| 03 ------ 03 | 36 ------ 36 |
| 04 ------ 04 | 37 ------ 37 |
| 05 ------ 05 | 38 ------ 38 |
| 06 ------ 06 | 39 ------ 39 |
| 07 ------ 07 | 40 ------ 40 |
| 08 ------ 08 | 41 ------ 41 |
| 09 ------ 09 | 42 ------ 42 |
| 10 ------ 10 | 43 ------ 43 |
| 11 ------ 11 | 44 ------ 44 |
| 12 ------ 12 | 45 ------ 45 |
| 13 ------ 13 | 46 ------ 46 |
| 14 ------ 14 | 47 ------ 47 |
| 15 ------ 15 | 48 ------ 48 |
| 16 ------ 16 | 49 ------ 49 |
| 17 ------ 17 | 50 ------ 50 |
| 18 ------ 18 | shell------shell |
| 19 ------ 19 | |
| 20 ------ 20 | |
| 21 ------ 21 | |
| 22 ------ 22 | |
| 23 ------ 23 | |
| 24 ------ 24 | |
| 25 ------ 25 | |
| 26 ------ 26 | |
| 27 ------ 27 | |
| 28 ------ 28 | |
| 29 ------ 29 | |
| 30 ------ 30 | |
| 31 ------ 31 | |
| 32 ------ 32 | |
| 33 ------ 33 | |

## G. Regular SCSI pin out for references

### SCSI-2 to SCSI-2

Half pitch DB/CEN 50 to 50

| | |
|---|---|
| 01 ------ 01 | 34------34 |
| 02 ------ 02 | 35------35 |
| 03 ------ 03 | 36------36 |
| 04 ------ 04 | 37------37 |
| 05 ------ 05 | 38------38 |
| 06 ------ 06 | 39------39 |
| 07 ------ 07 | 40------40 |
| 08 ------ 08 | 41------41 |
| 09 ------ 09 | 42------42 |
| 10 ------ 10 | 43------43 |
| 11 ------ 11 | 44------44 |
| 12 ------ 12 | 45------45 |
| 13 ------ 13 | 46------46 |
| 14 ------ 14 | 47------47 |
| 15 ------ 15 | 48------48 |
| 16 ------ 16 | 49------49 |
| 17 ------ 17 | 50------50 |
| 18 ------ 18 | shell-----shell |
| 19 ------ 19 | |
| 20 ------ 20 | |
| 21 ------ 21 | |
| 22 ------ 22 | |
| 23 ------ 23 | |
| 24 ------ 24 | |
| 25 ------ 25 | |
| 26 ------ 26 | |
| 27 ------ 27 | |
| 28 ------ 28 | |
| 29 ------ 29 | |
| 30 ------ 30 | |
| 31 ------ 31 | |
| 32 ------ 32 | |
| 33 ------ 33 | |

### SCSI-2 to SCSI-1

Half pitch DB/CEN 50 to DB50

| | |
|---|---|
| 01 ------ 01 | 26 ------ 34 |
| 27 ------ 02 | 18 ------ 35 |
| 04 ------ 03 | 29 ------ 36 |
| 38 ------ 04 | 06 ------ 37 |
| 07 ------ 05 | 32 ------ 38 |
| 33 ------ 06 | 09 ------ 39 |
| 18 ------ 07 | 35 ------ 40 |
| 36 ------ 08 | 12 ------ 41 |
| 13 ------ 09 | 30 ------ 42 |
| 02 ------ 10 | 15 ------ 43 |
| 16 ------ 11 | 41 ------ 44 |
| 42 ------ 12 | 10 ------ 45 |
| 19 ------ 13 | 44 ------ 46 |
| 45 ------ 14 | 21 ------ 47 |
| 22 ------ 15 | 47 ------ 48 |
| 48 ------ 16 | 48 ------ 49 |
| 25 ------ 17 | 50 ------ 50 |
| 02 ------ 18 | shell-----shell |
| 28 ------ 19 | |
| 17 ------ 20 | |
| 31 ------ 21 | |
| 08 ------ 22 | |
| 34 ------ 23 | |
| 11 ------ 24 | |
| 37 ------ 25 | |
| 14 ------ 26 | |
| 40 ------ 27 | |
| 17 ------ 28 | |
| 43 ------ 29 | |
| 32 ------ 30 | |
| 46 ------ 31 | |
| 23 ------ 32 | |
| 49 ------ 33 | |

# H. Regular SCSI pin out for references

## SCSI-2 to SCSI-1

**Half pitch CEN 50 to DB25**

| | | |
|---|---|---|
| 49 | 01 | 09 – 18 |
| 46 | 02 | 11 – 18 |
| 50 | 03 | 47 – 19 |
| 45 | 04 | 34 – 20 |
| 44 | 05 | 27 – 21 |
| 43 | 06 | 28 – 22 |
| 16 | 07 | 30 – 23 |
| 18 | 07 | 23 – 24 |
| 19 | 07 | 24 – 24 |
| 26 | 08 | 25 – 24 |
| 20 | 09 | 38 – 25 |
| 21 | 09 | shell – shell |
| 22 | 09 | |
| 29 | 10 | |
| 31 | 11 | |
| 32 | 12 | |
| 33 | 13 | |
| 01 | 14 | |
| 02 | 14 | |
| 03 | 14 | |
| 48 | 15 | |
| 04 | 16 | |
| 05 | 16 | |
| 06 | 16 | |
| 41 | 17 | |
| 07 | 18 | |
| 08 | 18 | |

## SCSI-1 to SCSI-1

**CEN (RC) 50 to Cen (RC) 50**

| | | |
|---|---|---|
| 01 | 01 | 34 – 34 |
| 02 | 02 | 35 – 35 |
| 03 | 03 | 36 – 36 |
| 04 | 04 | 37 – 37 |
| 05 | 05 | 38 – 38 |
| 06 | 06 | 39 – 39 |
| 07 | 07 | 40 – 40 |
| 08 | 08 | 41 – 41 |
| 09 | 09 | 42 – 42 |
| 10 | 10 | 43 – 43 |
| 11 | 11 | 44 – 44 |
| 12 | 12 | 45 – 45 |
| 13 | 13 | 46 – 46 |
| 14 | 14 | 47 – 47 |
| 15 | 15 | 48 – 48 |
| 16 | 16 | 49 – 49 |
| 17 | 17 | 50 – 50 |
| 18 | 18 | shell – shell |
| 19 | 19 | |
| 20 | 20 | |
| 21 | 21 | |
| 22 | 22 | |
| 23 | 23 | |
| 24 | 24 | |
| 25 | 25 | |
| 26 | 26 | |
| 27 | 27 | |
| 28 | 28 | |
| 29 | 29 | |
| 30 | 30 | |
| 31 | 31 | |
| 32 | 32 | |
| 33 | 33 | |

# I. Regular SCSI pin out for references

## SCSI-1 to SCSI-1

CEN (RC) 50 to DB 50

| | |
|---|---|
| 01 ------ 01 | 26 ------ 34 |
| 27 ------ 02 | 03 ------ 35 |
| 04 ------ 03 | 29 ------ 36 |
| 30 ------ 04 | 06 ------ 37 |
| 07 ------ 05 | 32 ------ 38 |
| 33 ------ 06 | 09 ------ 39 |
| 10 ------ 07 | 35 ------ 40 |
| 36 ------ 08 | 12 ------ 41 |
| 13 ------ 09 | 38 ------ 42 |
| 39 ------ 10 | 15 ------ 43 |
| 16 ------ 11 | 41 ------ 44 |
| 42 ------ 12 | 18 ------ 45 |
| 19 ------ 13 | 44 ------ 46 |
| 45 ------ 14 | 21 ------ 47 |
| 22 ------ 15 | 47 ------ 48 |
| 48 ------ 16 | 24 ------ 49 |
| 25 ------ 17 | 50 ------ 50 |
| 02 ------ 18 | |
| 28 ------ 19 | |
| 05 ------ 20 | shell------shell |
| 31 ------ 21 | |
| 08 ------ 22 | |
| 34 ------ 23 | |
| 11 ------ 24 | |
| 37 ------ 25 | |
| 14 ------ 26 | |
| 40 ------ 27 | |
| 17 ------ 28 | |
| 43 ------ 29 | |
| 20 ------ 30 | |
| 46 ------ 31 | |
| 23 ------ 32 | |
| 49 ------ 33 | |

## MAC SCSI

Cen.50 (RC) to DB25

| | |
|---|---|
| 01 ------ 14 | 34 ------ 20 |
| 02 ------ 14 | 38 ------ 25 |
| 03 ------ 14 | 41 ------ 17 |
| 04 ------ 16 | 43 ------ 06 |
| 05 ------ 16 | 44 ------ 05 |
| 06 ------ 16 | 45 ------ 04 |
| 07 ------ 18 | 40 ------ 40 |
| 08 ------ 18 | 46 ------ 02 |
| 09 ------ 18 | 47 ------ 19 |
| 11 ------ 18 | 48 ------ 15 |
| 16 ------ 07 | 49 ------ 01 |
| 18 ------ 07 | 50 ------ 03 |
| 19 ------ 07 | |
| 20 ------ 09 | shell------shell |
| 21 ------ 09 | |
| 22 ------ 09 | |
| 23 ------ 24 | |
| 24 ------ 24 | |
| 25 ------ 24 | |
| 26 ------ 08 | |
| 27 ------ 21 | |
| 28 ------ 22 | |
| 29 ------ 10 | |
| 30 ------ 23 | |
| 31 ------ 11 | |
| 32 ------ 12 | |
| 33 ------ 13 | |