

ZETACO
ACCEPTANCE TEST PROCEDURE

951-0489-00
Rev. A

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FOR: SCZ-2DP

1. Install board in computer and configure for single initiator operation:
 - Install jumpers W18-3, W21-1.
 - Remove jumpers W18-2 and W18-1.
 - Set front switches for dev 27, SW1 #5 up, burst of 16.
 - Set other options (switches) down to disable.
 - Set drive size switches to selected drive.
 - Remove 220/330 term dips.
2. Cable up controller using a terminated A paddle (500-464-00) and attach a terminated drive at the other end.
3. Powerup and observe that selftest passes.
4. Check low voltage detect circuit. (approx 4.6 volts at D6-1).
5. Run 1 pass of SCZ-2 diagnostic.
6. Run 500R for 1 minute with drive set to ids 1,2 and 3.
7. Run 500R for 15 minutes at each margin with drive set to id 0.
8. Test device code switches. (run reli at code 52 octal and 25 octal.)
9. Test ending disk address bit 4. (WRI 20,0,1 in command string. Error should result if drive parm switches set to 6067 size.)
10. Test cylinder address bits 10 & 11 (SEEK 2000 and SEEK 4000. Illegal cylinder should be reported.)
11. Test bus parity error. (Momentarily ground E6-8 while looping on a REA 0,0,1. Error should be reported.)
12. Test all DCH throttling positions. (loop on a REA 0,0,1 and scope A9-6.)
13. Test timeout flip-flop using 501R program in SCZ2D.

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14. Install a second controller in another computer and configure both boards to run in dual port mode:
 - Remove jumper W21-1 from both boards.
 - Install jumper W18-3 in both boards.
 - Install W18-2 in one board and remove it from the other.
 - Set drive to id 0 and remove terminators.
 - Configure remaining options for the 2nd board the same as the first board.
15. Run 500R on each computer at the same time. Ensure that boards are arbitrating correctly. Run for 30 minutes.
16. Halt Reli on both machines and switch the state of W18-2 on each board so their id's have switched. Set drive to id 2. Run another 5 minutes of dual port reli.
17. Test the Trespass command (implemented in rework):
 - Bring up CMD string (503R) on both CPUs.
 - Issue a REL to the drive from both controllers.
 - With one of the SCZ-2DPs, do a WRI 0 0 1.
 - With the other, do a TRE. (note that the SCSI bus gets reset)
 - With the same controller now do a WRI 0 0 1 to prove that the trespass did function properly. The write should complete normally.
 - Setup the test again using the other board to perform the trespass followed by the write.
18. Send board to final inspection configured as:

W18-2 out, W18-3 in, W21-1 out, W18-1 out, the front switches as

Switch 2
d d d d u d d d

Switch 1
d d d d u u d d

Switch 3
d d u d u d d d