# ZETACO ACCEPTANCE TEST PROCEDURE

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FOR: SCZ-6T Tape Peripheral Controller

## BEFORE POWER-UP:

Clean board edge connectors.

- 2. Rap board to remove any foreign materials.
- 3. Visually inspect board.

## PRELIMINARY STEPS:

- 1. Insert the controller in an I/O ONLY slot and install the BMC cables and BMC terminator. Install the paddleboard. Install drive cabling to at least one supported tape drive, with differential type SCSI interface.
- 2. Set the switches on the controller front edge to SW1 and SW2 DOWN, and SW3 SW8 to device code 40 octal.
- 3. Apply power to the controller.
- 4. Set SW2 UP to allow power-on clear circuit adjustment. Set your +5v supply to +4.7v. With a scope probe on pin 4 of the ICL8211 at K29, adjust the pot next to J29 to just before the point where the signal on pin 4 begins to go low. Seal the pot. Set SW2 Down again.
- 5. Set the supply to +5v and measure the BMC termination voltage at the emitter (center lead) of Q1 at L18. It should be 3 volts +/- .2 volt.
- 6. Measure the clock periods at JP4-2 and JP5-2. Both should be 50 ns. Next, measure clock periods at JP4-1 and JP5-1. Both should be 25 ns.
- 7. If the EEPROMs have never been configured, the hostside micro should have failed self test #12. If so, set
  SW1 UP at this time to proceed from the error. Verify
  the controller passes all other Self-Tests and all LEDs
  go off within 5 seconds after power-up. Set Sw1 DOWN
  again. After configuring the EEPROMs, repeat power-up
  Self-Test at least five (5) times over the course of
  the ATP.

#### CONFIGURATION:

1. Boot the Configurator program and set the controller up with the following default values. (If the Configurator will not run at this point, run the Diagnostic program with SW1 UP to force default controller parameters. If the Configurator will still not run, check control logic around the EEPROMs.)

BMC BURST RATE = 32, BMC BREAK COUNT = 4 DEVICE CODE = 23 OCTAL

BMC PRIORITY - 0

INITIATOR (SCZ-6T) SCSI ID = 7

# DIAGNOSTIC TESTING:

- Load the SCZ-6T Diagnostic program from tape file #5.
   The program listing is available on tape file #8 in LOAD format.
- 2. Run the diagnostic for 1 pass at +5.00 V, 1 pass at +4.75 V and 1 pass at +5.25 V.
- 3. BMC PARITY LOGIC TESTS:

Perform the following tests with the Reliability program loade d.

- 3a. Remove power to the controller and ground IC K15-2. Power up the controller and verify the SCSI self test fails with error code = 21 octal, Power down and remove jumper.
- 3b. Remove power to the controller and ground IC K15-5. Power up the controller and restart Reli. Verify that program fails or hangs after the Start command and that the SCSI LEDs display an error code of 77 octal. Power down and remove jumper.
- 3c. Remove power to the controller and ground IC L29-20. Power up the controller and restart Reli. Verify that the program times out after the Start command. Power down and remove jumper.
- 3d. Remove power to the controller and ground IC L8-23. Power up the controller and restart Reli. Verify that program fails or hangs after the Start command and that the SCSI LEDs display an error code of 77 octal, Power down and remove jumper.
- 4. Run Tape Reliability program for 30 minutes set to the following parameters:

Execution Mode = RANDOM Write/Read/Verify Data Data Type = DO ALL PATTERNS

5. Run Tape Reliability with a single-ended interface SCSI drives(s) for 30 minutes.

# AOS/VS SYSTEM TESTING:

(use AOS/VS revision 7.67 or above)

- Test booting AOS/VS with the controller.
- 2. Run AOS/VS CONTEST for 30 minutes. Test tape portions of the SCZ-6T. Your current system must be SYSGEN'd with MTJ as the only tape controller, (no MTA,MTB<MTC or MTD), for CONTEST to recognize and run the tape portion of the SCZ-6T.

3. Run the DLTEST.CLI program found on the diagnostic tape. Load the program from tape file 9 to your system disk (LOAD/V @MTnO:9.) To run the program, DIR to root and type DLTEST. The program exercises the tape portions of the SCZ-6T with more tape activity than CONTEST or MVSYSTEMX using DUMP\_II and LOAD\_II.

# SWITCH SETTINGS:

After testing set the controller switch as follows:

SWITCH 1 2 3 4 5 6 7 8 SETTING DOWN DOWN UP UP UP UP UP

(Alternate mode off, EEPROM write protect, MPORT device code=40 octal.)