

1d. Full Power Tester - Operation Procedures

- 1) Ohm module power busses before connecting to tester power supplies, to insure against power shorts.
- 2) Connect module to full power buss block. Connect to tester (Cannon connectors) using personality harness.
* Each module type harness has wire lengths that are tuned to match the input and output lengths of the module.
- 3) Apply power by turning on the Superbrain, the hard disk (if using), the tester main switch, and the circulator bath. Wait until fluorinert covers the module; then turn on the tester and the module power supplies.
* There is a safety switch so that the module power will not come on if the fluorinert level is too low.
- 4) Load the proper Module Test on the Superbrain, using the SynchD Program: SynchD B:File Where SynchD is the Command File and is located on drive A;
File is the Test Name and is located on Drive B.

Upon loading the test, you will be asked whether a normal test, or a quick-test sequence should be run. The quick-test makes one pass through each test step, and checks upright outputs on even number clock periods, and inverted outputs on odd number clock periods. The normal test makes two passes through each test step, and checks upright and inverted outputs in the following manner:

Clock	Rcv Data PC- (1st Pass)	Rcv Data PC+ (2nd Pass)
0	Upright	Not Used
1	Inverted	Upright
2	Up	Inverted
3	Inv	Up
4	Up	Inv
5	Inv	Up
6	Up	Inv
7	Inv	Up
8	Up	Inv
9	Inv	Up
10	Up	Inv
11	Inv	Up
12	Up	Inv
13	Inv	Up
14	Up	Inv
15	Inv	Up
16	Up	Inv
17	Inv	Up
18	Up	Inv
19	Inv	Up
20	Up	Inv
21	Inv	Up
22	Up	Inv
23	Inv	Up
24	Up	Inv
25	Inv	Up
26	Up	Inv
27	Inv	Up
28	Up	Inv
29	Inv	Up
30	Up	Inv
31	Inv	Up
32	Up	Inv
33	Inv	Up
34	Up	Inv
35	Inv	Up
36	Up	Inv
37	Inv	Up
38	Up	Inv
39	Inv	Up
40	Up	Inv
41	Inv	Up
42	Up	Inv
43	Inv	Up
44	Up	Inv
45	Inv	Up
46	Up	Inv
47	Inv	Up
48	Up	Inv
49	Inv	Up
50	Up	Inv
51	Inv	Up
52	Up	Inv
53	Inv	Up
54	Up	Inv
55	Inv	Up
56	Up	Inv
57	Inv	Up
58	Up	Inv
59	Inv	Up
60	Up	Inv
61	Inv	Up
62	Up	Inv
63	Inv	Up
64	Up	Inv
65	Inv	Up
66	Up	Inv
67	Inv	Up
68	Up	Inv
69	Inv	Up
70	Up	Inv
71	Inv	Up
72	Up	Inv
73	Inv	Up
74	Up	Inv
75	Inv	Up
76	Up	Inv
77	Inv	Up
78	Up	Inv
79	Inv	Up
80	Up	Inv
81	Inv	Up
82	Up	Inv
83	Inv	Up
84	Up	Inv
85	Inv	Up
86	Up	Inv
87	Inv	Up
88	Up	Inv
89	Inv	Up
90	Up	Inv
91	Inv	Up
92	Up	Inv
93	Inv	Up
94	Up	Inv
95	Inv	Up
96	Up	Inv
97	Inv	Up
98	Up	Inv
99	Inv	Up

- 5) Set up the scope in the manner shown in Figure II-a.
Put the test in a Loop Mode (L command), and verify that you have a scope sync on B Vertical.