

1. START SECTION

1. START

All Maintenance Procedures Start from Here!

1.1 Precautions

- All maintenance operations to be performed on this subsystem are controlled through the SVP. When taking maintenance actions, carefully read this maintenance manual to avoid operation mistakes.
- The subsystem is designed so that their troubles are isolated using the action code (ACC). If no ACC is presented, isolate the trouble based on TROUBLE SHOOTING SECTION.
- This subsystem supports new technologies such as RAID and live part plugging/unplugging. The service personnel should read THEORY OF OPERATION SECTION and understand its contents.

1.1.1 How to Use This Maintenance Manual

When servicing the subsystem by using this manual, select the item to be checked from the START ENTRY TABLE in START SECTION and follow the instructions given in the corresponding test procedure.

(Note)

Each SVP screen on this maintenance manual is a sample, and it may not be the same as the actual screen.

START ENTRY TABLE

Select the test item to be executed on this subsystem and follow the instructions given on the indicated pages.

	Test Item	Go To
A. Error Analysis		
A-1	Analyzing errors with ACC	TRBL03-10
A-2	Analyzing errors without ACC	TRBL03-20
A-3	Analyzing electric system errors (alarm, breaker trip, power-on failure, etc.)	TRBL03-80 TRBL03-100
A-4	Analyzing PC (SVP) errors	TRBL03-70
A-5	Analyzing SVP Messages	SVPMSG01-10
A-6	ACC analysis in SSB	ACC05-10
A-7	PIN track recovery	TRBL04-10
A-8	Recovery procedure for abnormal correction copy termination	TRBL04-10
A-9	Recovery procedure for arbiter master switching malfunction	TRBL05-10
A-10	Recovery procedure for BUS Blocking	TRBL05-20
A-11	Recovery procedure for Common SCSI Bus Error	TRBL05-30
A-12	Recovery procedure for LAN Error	TRBL05-70
A-13	Recovery procedure for the Replacement of CHA/DKA	TRBL05-110
A-14	Recovery procedure for micro-program replacement failure	MICRO-FC07-10
A-15	Recovery procedure for cache replacement failure	TRBL05-140
A-16	Recovery procedure for cache double-side failure	TRBL05-150
A-17	Message "Internal Subsystem is under maintenance..." was displayed during maintenance by the SVP.	TRBL05-160
A-18	Recovery procedure for drive restoration failure	TRBL05-170
A-19	Recovery procedure for installing failure	INST02-60
A-20	DIAG Trouble shooting	DIAG05-10
B. Status Display		
B-1	Displaying processor and path block status and drive copy status	STATUS01-10
C. Installation		
C-0	Subsystem Configuration Outline	INST01-10
C-1	New Installation	INST02-10
C-2	Installing options	INST02-20
C-3	De-installing options	INST02-30
C-4	Disruptive Installing options	INST02-35
C-5	Disruptive De-Installing options	INST02-50
D. Microprogram FC		
D-1	Performing micro-program FC (off-line)	MICRO-FC03-10
D-2	Performing micro-program FC (on-line)	MICRO-FC04-10
D-3	Performing On-line Patch	MICRO-FC05-10
D-4	Performing MP Install	MICRO-FC06-10
D-5	Performing configuration exchange	MICRO-FC08-10
E. Part Replacement		
E-1	Replacing parts	REP00-10
E-2	Periodic replacing	PERIOD04-10
E-3	Periodic checking	PERIOD00-10

	Test Item	Go To
F. SVP Panel Manipulation		
F-1	Getting SVP panel manipulation information	SVP01-10
F-2	Checking log information	SVP02-30
F-3	Log delete	SVP02-130
F-4	Displaying the ratio of the processor, cache wed etc.	SVP02-150
F-5	Checking Environment Monitor information	SVP02-210
F-6	Checking On-line Read Margin (ORM) information	SVP02-230
F-7	Setting SIM report level	SVP02-340
F-8	Management of Drive Threshold Values	SVP02-390
F-9	Copying the Dump, Log files to a floppy disk	SVP02-460
F-10	SIM Log complete	SVP02-510
F-11	Performing Manual Dump	SVP02-540
F-12	Performing Logical Device Maintenance	SVP02-560
F-13	Display the Pinned Track	SVP02-660
F-14	Performing MP Restart	SVP02-680
F-15	Performing Micro-program back up	SVP02-710
F-16	System Option	SVP02-740
F-17	Bus recovery processing	SVP02-770
G. Diagnostics		
G-1	Performing CUDG4/LCDG4	DIAG04-10
G-2	Performing DRIVE INLINE	DIAG04-80
H. Others		
H-1	Knowing outline of this subsystem	THEORY01-10
H-2	Knowing this subsystem drive maintenance policy	REP01-20
H-3	Knowing this subsystem this subsystem Cache maintenance policy	REP01-90

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REV.4	Mar.1995	Apr.1995	Jun.1995	Jul.1995	Nov.1995	
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