

# ***START SECTION***

## Contents

<a href="#">START01-10</a>	1. Precautions
<a href="#">START01-10</a>	1.1 How to Use This Maintenance Manual
<a href="#">START02-10</a>	2. Start Entry Table

**NOTICE:**

- **All Maintenance Procedures Start from Here!**
- **Use the maintenance manual corresponding to the micro-program version of the maintained storage system.**

## 1. Precautions

- All maintenance operations to be performed on this storage system are controlled through the SVP. When taking maintenance actions, carefully read this maintenance manual to avoid operation mistakes.
- The storage system is designed so that troubles are isolated using the action code (ACC). If no ACC is presented, isolate the trouble based on TROUBLE SHOOTING SECTION.
- The service personnel should read THEORY OF OPERATION SECTION and understand its contents.

### 1.1 How to Use This Maintenance Manual

When servicing the storage system 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.

**START02-10****2. Start Entry Table**

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

	Test Item	Go To
<b>A. Error Analysis</b>		
A-1	Analyzing errors with ACC	<a href="#">TRBL03-10</a>
A-2	Analyzing errors without ACC	<a href="#">TRBL03-40</a>
A-3	Analyzing electric system errors (alarm, breaker trip, power-on failure, etc.)	<a href="#">TRBL03-90</a> <a href="#">TRBL03-200 ~ 270</a>
A-4	Analyzing PC (SVP) errors	<a href="#">TRBL03-150</a>
A-5	Analyzing SVP Messages	<a href="#">SVPMSG01-10</a>
A-6	ACC analysis in SSB	<a href="#">ACC01-10</a>
A-7	PIN track recovery	<a href="#">TRBL06-130</a>
A-9	Recovery procedure for Common SAS Error	<a href="#">TRBL04-10</a>
A-10	Recovery procedure for LAN Error	<a href="#">TRBL04-40</a>
A-11	Recovery procedure for the Replacement of CHB/DKB	<a href="#">TRBL04-70</a>
A-12	Recovery procedure for micro-program replacement failure	<a href="#">MICRO06-10</a>
A-13	Recovery procedure for MPB replacement failure	<a href="#">TRBL04-110</a>
A-14	Recovery procedure for cache Both-side failure	<a href="#">TRBL04-120</a>
A-15	Message “Internal storage system status is under maintenance...” was displayed during maintenance by the SVP.	<a href="#">TRBL04-130</a>
A-16	Recovery procedure for drive restoration failure	<a href="#">TRBL04-140</a>
A-17	Recovery procedure for installing failure	<a href="#">INST02-330</a>
A-18	DIAG Trouble shooting	<a href="#">DIAG05-10</a>
<b>B. Status Display</b>		
B-1	Displaying processor and path block status and drive copy status	<a href="#">SVP03-10</a>
<b>C. Installation</b>		
C-0	Storage system Configuration Outline	<a href="#">INST01-10</a>
C-1	New Installation Procedure Table	<a href="#">INST02-10</a>
C-2	Non-Disruptive Installation Procedure Table	<a href="#">INST02-40</a>
C-3	Non-Disruptive De-Installation Procedure Table	<a href="#">INST02-60</a>
C-4	Disruptive Installation Procedure Table	<a href="#">INST02-80</a>
C-5	Disruptive De-installation Procedure Table	<a href="#">INST02-90</a>
C-6	Attachment/Removal Procedure of CE Laptop PC	<a href="#">INST03-01-150</a>
<b>D. Microprogram FC</b>		
D-1	Performing micro-program FC (Off-line)	<a href="#">MICRO03-10</a>
D-2	Performing micro-program FC (On-line)	<a href="#">MICRO04-10</a>
D-3	Performing MP Install	<a href="#">MICRO05-10</a>
D-4	Performing configuration exchange	<a href="#">MICRO08-10</a>

**START02-20**

	Test Item	Go To
<b>E. Part Replacement</b>		
E-1	Replacing parts	<a href="#">REP00-10</a>
E-2	Periodic replacing	<a href="#">PERIOD01-10</a>
E-3	Periodic checking	<a href="#">PERIOD01-10</a>
<b>F. SVP Panel Manipulation</b>		
F-1	Getting SVP panel manipulation information	<a href="#">SVP01-10</a>
F-2	Checking log information	<a href="#">SVP02-30</a>
F-3	Log delete	<a href="#">SVP02-180</a>
F-4	Monitoring	<a href="#">SVP02-200</a>
F-5	Checking Online read margin (ORM) information	<a href="#">SVP02-330</a>
F-6	Setting SIM report level	<a href="#">SVP02-500</a>
F-7	Management of drive threshold values	<a href="#">SVP02-520</a>
F-8	SIM Log Complete	<a href="#">SVP02-590</a>
F-9	Performing AutoDump	<a href="#">SVP02-610</a>
F-10	Performing Logical Device Maintenance	<a href="#">SVP02-790</a>
F-11	Display the Pinned Track	<a href="#">SVP02-1070</a>
F-12	System Option	<a href="#">SVP02-1170</a>
<b>G. Diagnostics</b>		
G-1	Performing CUDG4	<a href="#">DIAG04-10</a>
G-2	Performing HDD INLINE	<a href="#">DIAG04-90</a>
<b>H. Others</b>		
H-1	Knowing outline of this storage system	<a href="#">THEORY01-10</a>