

SL500

PN COMPATIBILITY LISTING

PN 63419

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INTRODUCTION

This manual contains two parts:

1. INTRODUCTION - which defines the content of the manual and explains how to use it.
2. Compatibility is defined as follows:

Downward Compatible: A new assembly (usually a higher PN) is a direct replacement (downward compatible) for an old assembly (usually a lower PN) when it does not degrade machine performance. Downward compatibility is indicated when both assemblies have the same compatibility number for a specific application.

Upward Compatible: An old assembly (usually a lower PN) is equivalent to (upward compatible) and may directly replace a new assembly (usually a higher PN) if its use does not affect machine performance. Upward compatibility is indicated when assemblies having the same compatibility number are also indicated as "equivalent" in the "Description of EC" field.

Each page in the compatibility section contains the compatibility information for each FRU. It shows the history of Engineering Changes (ECs) that resulted in part number changes for that FRU. It also shows which part numbers are obsolete and which part numbers can be used to replace them.

For some FRUs, the functional changes that resulted in new part numbers will not function without corresponding machine rework. This usually results in a compatibility number change for the new assembly. The "Description of EC: field will summarize the changes. A Field APL defining the required rework will be listed in a separate column next to the EC number if applicable.

When a common FRU is released or modified for specific use in a new model or feature, the compatibility number will roll to indicate the new part number is not downward compatible for the new feature or models.

If the FRU is downward compatible for other existing models, an explanation will be added to the EC Description field.

If the compatibility number does not change, the new FRU will perform at least the same functions as the older FRU.

COMPATIBILITY AND OBSOLESCENCE

Any part number that is prefixed with an asterisk (*) is an obsolete part number. Obsolete means that the part will no longer be supplied. If an obsolete part is ordered, the field parts crib will substitute a part that is downward compatible or equivalent to the part number ordered.

Downward compatibility is designated by the compatibility number to the right of the part number. A FRU of a given part number is downward compatible with all those lower part number FRUs that have the same compatibility number. This means it can be used to replace any of the lower part numbers having the same compatibility number without requiring rework to another FRU or the machine.

For Example:

<u>PART</u> <u>NUMBER</u>	<u>COMP</u> <u>NO</u>	<u>EC NO</u>	<u>SOFT</u> <u>REF</u>	<u>HEX</u> <u>FEAT</u>	<u>FIELD</u> <u>BILL</u>	<u>DESCRIPTION OF EC</u>
*42150101	1	40020			NONE	IR - W/W BOARD
*42150102	1	40030			NONE	ADD REWORK
42150202	1	40040			8612	IMBED REWORK - EQUIV TO 102
*42150203	2	40050			8619	ADD REWORK. REQUIRED MBD AT LEVEL __.
42150204	2	40060			NONE	ADD REWORK

In the above example:

P/N 42150 101 can replace only itself.

P/N 42150 102 can replace itself or P/N 42150101 (or -202 because it is equivalent).

P/N 42150 202 can replace itself, P/N 42150101 or P/N 42150102.

P/N 42150 203 can replace only itself. (Can not replace lower level cards unless MBD change or other prerequisite is installed).

P/N 42150 204 can replace itself and -203. (Cannot replace lower level cards unless MBD change or other prerequisite is installed).

* The asterisk to the left of a part number indicates that the part is obsolete and is no longer supported by manufacturing. The highest level part for each compatibility level should not carry an asterisk because manufacturing must support field spares until all machines have been brought to the next compatibility level.

CAUTION

Upward compatibility exists only if two FRUs with the same compatibility number are described as "equivalent" in the "Description of EC" field. Any other substitution of a lower part number for a higher part number requires a great deal of caution. Such practice may result in noise problems, timing problems, diagnostic errors, etc. Any attempt to utilize such a lower part number requires ensuring that functional changes or improvements missing from the lower part number will not result in customer system operation degradation. Reference the description of each EC and ensure that no machine wiring changes or companion changes to other FRUs were required at the time the higher part number was originally installed. Usage in this manner is not recommended and should be avoided if possible.

UPDATING THE MANUAL

To update the manual, insert the new pages according to the new list of effective pages. Remove and discard any pages that are replaced by a later EC level, or are shown as deleted from the list of effective pages.

Comments concerning the content of this manual should be directed to Configuration Management at the address below. In case of errors, please give specific page and line references, where appropriate. For a reply, include name and address.

Requests for additional copies of this manual should be directed to the Field Crib via Field Inventory System (FIS) terminals.

This publication was prepared by Storage Technology Corporation, 1 StorageTek Drive, Louisville, Colorado 80028-0001.

FRU NAME MCODE
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME MCODE
 DESCRIPTION MCODE, FUNCTIONAL

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313869301	1	141390	00	00	NONE	1003 INITIAL RELEASE.
*313869302	1	141423	00	00	*102032	1005 UPGRADE TO FIX DOOR OPEN PROBLEM. FACTORY/FIELD MANDATORY.
*313869303	1	141462	00	00	*102052	1007 UPGRADE FOR VARIOUS ISSUES. FACTORY/FIELD EXCEPTIONAL.
*313869304	1	141550	00	00	*102119	1011 UPGRADE FOR VARIOUS ISSUES. FACTORY/FIELD EXCEPTIONAL.
*313869307	1	141714	00	00	*102184	1016 UPGRADE FOR VARIOUS ISSUES. FACTORY/FIELD EXCEPTIONAL.
*313869308	1	142003	00	00	*102275	1022 UPGRADE FOR IBM LTO3 SUPPORT, SLC ENHANCEMENTS AND VARIOUS ISSUES. FACTORY MANDATORY/FIELD EXCEPTIONAL.
*313869309	2	142083	00	00	*103738	1026 (5.81.00) UPGRADE FOR MIXED MEDIA FEATURE, SLC ENHANCEMENTS (REQUIRES SLC 2.40 OR HIGHER) AND VARIOUS ENHANCEMENTS AND ISSUES FIXES. FACTORY MANDATORY/FIELD EXCEPTIONAL.
313869310	3	142260	00	00	104512	1048 (5.91.00) UPGRADE FOR SUN LOCAL OP PANEL FEATURE, SLC ENHANCEMENTS (REQUIRES SLC 2.95 OR HIGHER TO RUN THE NEW FUNCTIONALITY FEATURES), VARIOUS ENHANCEMENTS AND ISSUE FIXES. FACTORY MANDATORY/FIELD EXCEPTIONAL.

FRU NAME MCODE
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME MCODE
 DESCRIPTION MCODE, SLCONSOLE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313999503	1	141390	00	00	NONE	2.13.00 INITIAL RELEASE.
*313999504	1	141459	00	00	*102048	RELEASE MCODE VERSION 2.16.00. FB RELEASED EXCEPTIONAL.
*313999505	1	141811	00	00	*102063	RELEASE MCODE VERSION 2.20.00. FB RELEASED EXCEPTIONAL.
*313999506	1	142051	00	00	*103708	RELEASE MCODE VERSION 2.40.00. FB RELEASED EXCEPTIONAL.
313999507	1	142257	00	00	104509	RELEASE MCODE FRS_2.95 (2.29.00). SL500 MCODE SHOULD BE AT VERSION 1046 FOR FULL SLC FUNCTIONALITY. FB RELEASED EXCEPTIONAL.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PWA
 DESCRIPTION PWA, MPU2

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313731303	1	140844	00	00	NONE	INITIAL RELEASE FOR CPCI INTFC KIT W/2GB FIBRE.
*313731304	1	140880	00	00	NONE	LABEL CHANGE.
*313731305	1	141327	00	00	NONE	REPLACE OBSOLETE PART.
313731306	2	142100	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PWA
 DESCRIPTION PWA, MPW

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*309896305	1	141319	00	00	NONE	CHANGE PWA TO UNIVERSAL. THIS LEVEL OR HIGHER ONLY FOR SL500.
309896306	2	142100	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, H12, H24, M01
 FAMID CODE FAMID522/533
 FRUID NAME PWA
 DESCRIPTION PWA, RLB

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313963202	1	141206	00	00	NONE	INITIAL RELEASE.
*313963202	1	141246	00	00	NONE	EQUIVALENT TO 313963302.
*313963302	1	141246	00	00	NONE	FIX GEOMETRY ERROR. EQUIVALENT TO 313963202.
313963303	2	142222	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50E01, E02, E03, E04, E32, E33, HPEZ, M01
 FAMID CODE FAMID557/559
 FRUID NAME PWA
 DESCRIPTION PWA, RLB2

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
314526202	2	142222	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PWA
 DESCRIPTION PWA, RLC

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313906303	1	141044	00	00	NONE	INITIAL RELEASE. 141714
*313906304	1	141068	00	00	NONE	ASYNC RESET FOR 3 PHASE COMUTATION.
*313906305	1	141112	00	00	NONE	NON-OPERATIONAL SERVO LOW VOLT WARNING SIGNAL.
*313906306	1	141170	00	00	NONE	IMPROVE VOLTAGE MARGIN. LED COLOR CHANGE.
*313906307	1	141222	00	00	NONE	UPDATE FPGA PROM TO SUPPORT XON/XOFF HARDWARE FLOW CONTROL THAT IS REQUIRED FOR THE OP PANEL COMMUNICATION.
*313906308	1	141306	00	00	NONE	ADD UL REQUIRED SYMBOL FOR SERIAL PORTS AND FPGA CHANGE TO CORRECT AMPLIFIERS RUNNING IF DOOR IS CLOSED.
*313906409	1	141350	00	00	NONE	ALLOW NEW GPR PROCESSOR. FIX POWER GLITCH. BOOT CODE CHANGE.
*313906410	1	141517	00	00	NONE	PART VALUE CHANGES REQUIRED FOR IMPROVEMENTS. CHANGE RIVET FOR BETTER RETENTION.
*313906410	2	141550	00	00	NONE	SL500 1011 MCODE IS A PREREQUISITE TO THE RLC 4XX CARD DUE TO THE Z PARK BRAKE CIRCUIT IMPROVEMENTS.
*313906411	2	141691	00	00	NONE	COVER CHANGE.
*313906412	2	142021	00	00	NONE	RIVET CHANGE.
313906413	3	142103	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PWA
 DESCRIPTION PWA, RLE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313907201	1	140916	00	00	NONE	INITIAL RELEASE.
*313907202	1	141086	00	00	NONE	ADD DC ON/OFF SWITCH SHARING CIRCUIT. EQUIVALENT TO 313907302.
*313907302	1	141080	00	00	NONE	ADD DC ON/OFF SWITCH SHARING CIRCUIT.
*313907302	1	141086	00	00	NONE	ADD NOTE - EQUIVALENT TO 313907302.
*313907303	1	141214	00	00	NONE	UPDATE FPGA PROM TO DETECT WHEN A DRIVE IS INSERTED OR REMOVED.
*313907304	1	141266	00	00	NONE	FIX RLE CARD REMOTE POWER ON SIGNAL.
*313907405	1	141295	00	00	NONE	FIX INTERMITTENT PROBLEM CAUSING THE DC SUPPLY TO NOT POWER BACK ON DUE TO NO LOAD CONDITIONS.
*313907405	1	141752	00	00	NONE	EQUIVALENT TO 313907406.
*313907406	1	141752	00	00	NONE	REMOVE UNUSED CONNECTOR. EQUIVALENT TO 313907405.
313907407	2	142222	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, H12, H24
 FAMID CODE FAMID522/533
 FRUID NAME PWA
 DESCRIPTION PWA, RLJ

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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*313967403	1	141151	00	00	NONE	MOVE POWER CONNECTOR. THIS LEVEL OR HIGHER MUST SHIP WITH FRS MACHINES.
313967404	1	141284	00	00	NONE	UPDATE FPGA PROM TO DETECT WHEN A DRIVE IS INSERTED OR REMOVED.

FRU NAME PWA
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PWA
 DESCRIPTION PWA, RLM

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*313909201	1	140918	00	00	NONE	INITIAL RELEASE.
*313909202	1	141045	00	00	NONE	INCORRECT CURRENT LIMIT THRESHOLD ADJUSTMENTS.
*313909303	1	141082	00	00	NONE	CARD UPDATES.
*313909404	1	141155	00	00	NONE	SAFETY REQUIREMENT FOR CUSTOMER ACCESS.
*313909405	1	141215	00	00	NONE	ADDED DRIVE CHANGE STATUS TO FPGA.
*313909406	1	141265	00	00	NONE	FIX RLM CARD REMOTE POWER ON SIGNAL.
*313909407	1	141431	00	00	NONE	RENUMBER SLOTS AND ADD CONNECTOR COVER. EQUIVALENT TO 313909508.
313909408	1	141497	00	00	NONE	CONNECTOR COVER FIX. EQUIVALENT TO 313909509.
*313909507	1	141297	00	00	NONE	ADD PRELOAD RESISTORS AND 20 VOLT SWITCH CIRCUIT.
*313909508	1	141431	00	00	NONE	RENUMBER SLOTS AND ADD CONNECTOR COVER. EQUIVALENT TO 313909407.
*313909509	1	141497	00	00	NONE	CONNECTOR COVER FIX. EQUIVALENT TO 313909408.
313909510	2	142222	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME FAN
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME FAN
 DESCRIPTION FAN ASSEMBLY, 5VDC AXIAL

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*156510401	1	141089	00	00	NONE	INITIAL RELEASE.
156551101	2	129337	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME OP PANEL
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME
 DESCRIPTION OP PANEL FRU ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*314558601	1	141208	00	00	NONE	INITIAL RELEASE.
419679701	2	142097	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE, BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME POWER
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME PS
 DESCRIPTION PS, AC/DC, 490W, ATX MOD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*314335703	1	130007	00	00	NONE	REMOVE AC SWITCH.
*314335704	1	128075	00	00	NONE	REMOVE RESISTORS. USE PHYSICALLY SMALLER C52 AND C129 CAPACITORS FROM COMMON CHASSIS. USE PLASTIC STANDOFFS ON MAIN PCB.
314345701	2	128095	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.

FRU NAME ROBOT
 PRODUCT NUMBER SL50001, 002, 003, 004, 032, 033, E01, E02, E03, E04, E32, E33, H12, H24,
HPEZ, M01
 FAMID CODE FAMID522/533/**557/559**
 FRUID NAME ROBOT
 DESCRIPTION ROBOT FRU ASSEMBLY, STK

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*314577004	1	141287	00	00	NONE	ADD STANDOFF TO ROBOT BOW.
*314577005	1	141340	00	00	NONE	FIX Z LATCH DROP.
*314577005		141367	00	00	NONE	REPLACED BY 314558702 AS FRU LEVEL.
*314558702	1	141367	00	00	NONE	CHANGED TO NON-PREFORMED CABLE.
*314558703	1	141586	00	00	NONE	CHANGED TO TOOL FREE INSTALL VERSION.
*314558704	1	141817	00	00	NONE	SCAN ENGINE FIRMWARE CHANGE.
314558705	1	141817	00	00	NONE	CHANGED TO TOOL FREE INSTALL VERSION.
419684601	2	142097	00	00	NONE	CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE, BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART.