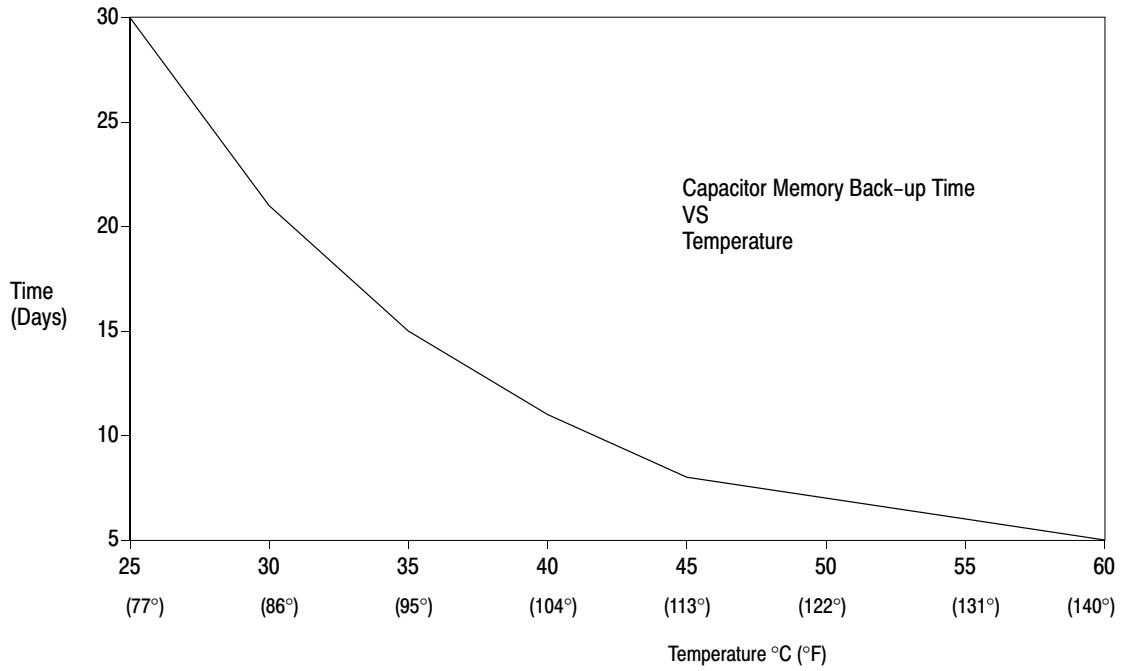


Memory Backup for the SLC 500 Fixed Controller

The curve below illustrates the ability of the memory back-up capacitor to maintain the contents of the RAM in a fixed controller. To back up the memory for a longer period of time, a lithium battery, Catalog Number 1747-BA, is required.



Maintaining Your Control System

This chapter covers the following:

- handling, storing, and transporting battery, Catalog Number 1747-BA
- installing or replacing your SLC 500 battery
- replacing the power supply fuse
- replacing retainer clips on a module

Refer to chapter 2 for important information on testing the master control relay circuit and preventive maintenance.

Handling, Storing, and Transporting Battery, Catalog Number 1747-BA

Follow the procedure below to ensure proper battery operation and reduce personnel hazards.

Handling

- Use only for the intended operation.
- Do not ship or dispose of batteries except according to recommended procedures.
- Do not ship on passenger aircraft.



ATTENTION: Do not charge the batteries. An explosion could result or they could overheat causing burns.

Do not open, puncture, crush, or otherwise mutilate the batteries. A possibility of an explosion exists and/or toxic, corrosive, and flammable liquids would be exposed.

Do not incinerate or expose the batteries to high temperatures. Do not attempt to solder batteries. An explosion could result.

Do not short positive and negative terminals together. Excessive heat could build up and cause severe burns.

Storing

Store the lithium batteries in a cool, dry environment, typically +20° C to +25° C (+68° F to +77° F) and 40% to 60% relative humidity. Store the batteries and a copy of the battery instruction sheet in the original container, away from flammable materials.

Installing or Replacing Your SLC 500 Battery

Back-up power for RAM is provided by a capacitor that will retain the contents of the RAM for a period of 5 to 30 days. For applications requiring memory back-up for a longer period of time an optional replaceable battery, Catalog Number 1747-BA, is required. The lithium battery provides back-up for approximately five years. A red BATTERY LOW LED turns on when the battery voltage has fallen below a threshold level.

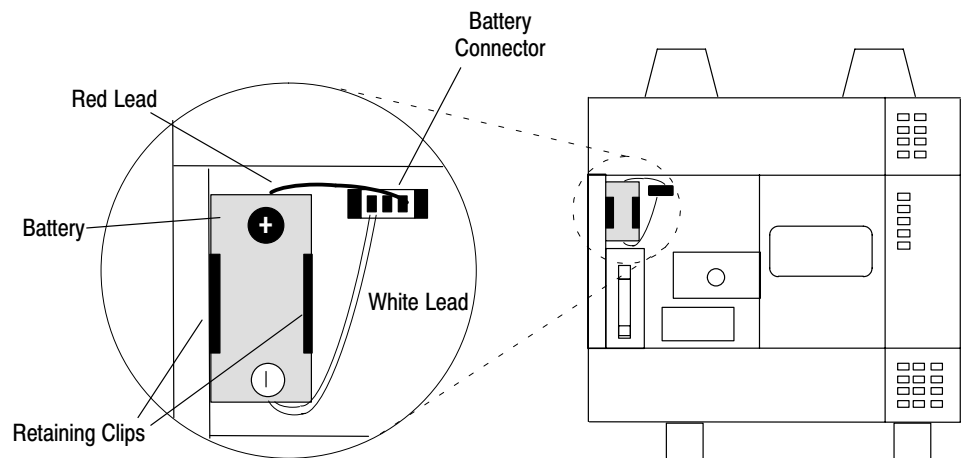
For battery installation or replacement, do the following:

1. Back up your ladder program.
2. Disconnect power to the processor.



ATTENTION: When power is applied to the controller hazardous electrical potentials exist under the front cover. See page 2-8 for more information.

3. Remove the processor cover.
4. If you are:
 - installing a battery in a new processor** (battery never installed before), remove the jumper from the battery socket. Store jumper in safe place for possible future use without battery.
 - replacing an old battery**, unplug the battery connector from the socket. The figure below shows you where to install the battery in a fixed controller.
5. Insert a new or replacement battery in the holder making sure it is held in by the retaining clip.
6. Plug the battery connector into the socket. See the figure below.



7. Replace the cover.

Replacement Parts

This chapter provides a list of replacement parts and a list of replacement terminal blocks for your SLC 500 controller.

Replacement Parts

This table provides a list of replacement parts and their catalog numbers.

Description	Catalog Number
Pre-wired Interface Cable — Available in 1.0m, 2.5m, and 5.0m lengths.	1492-CABLE [Ⓜ] H
Replacement Fuses — Five fuses per package. Orders must be for five fuses or multiples of five.	
Replacement fuse for Fixed I/O AC units, MDL 1.25 Ampere	1746-F4
Replacement fuse for Fixed I/O DC units, MDL 1.6 Ampere	1746-F5
Modular Card Slot Fillers — Two fillers per package. Orders must be for two fillers or multiples of two.	1746-N2
Connector — Mating Connector for 32 Point user-made cable	1746-N3
Kit consisting of four replacement terminal covers and labels for 4, 8, 16 I/O modules	1746-R9
Replacement Cover for Specialty I/O Two covers per package. Orders must be for two covers or multiples of two.	1746-R13
Replacement Retainer Clips for Modules Four clips per package. Orders must be for four clips or multiples of four.	1746-R15
Lithium Battery Assembly This is an optional part used for the SLC 500 Fixed and Modular Hardware Style processors and the Hand-Held Terminal. Refer to product documentation for proper storage and handling instructions. For disposal information, consult your nearest Allen-Bradley Sales Office.	1747-BA
Processor to Peripheral Programming/Communication Cable	1747-C10
Processor to Isolated Link Coupler Cable	1747-C11
Specialty Module to Isolated Link Coupler Cable	1747-C13
EEPROM with 1K User Instructions	1747-M1
UVEPROM with 1K User Instructions	1747-M3
Adapter Sockets — Orders must be for five sockets or multiples of five.	1747-M5
Replacement Parts Kit for 20 I/O Fixed Hardware Style Processor Two Output Terminal Covers Two Input Terminal Covers Two Prom/Battery Covers One HHT/Comm Connector Cover	1747-R5
Replacement Parts Kit for 30 and 40 I/O Fixed Hardware Style Processors Two Output Terminal Covers Two Input Terminal Covers Two Prom/Battery Covers One HHT/Comm Connector Cover	1747-R7
Replacement Terminal Covers for 4, 8, & 16 I/O Modules This kit contains four blank covers and appropriate labels for replacement of any required I/O module cover.	1747-R9
HHT Keypad Replacement Overlay for English Memory Pak Firmware Releases 1.02, 1.07 and 1.10	1747-R20
HHT Keypad Replacement Overlay for French Memory Pak Firmware Releases 1.10	1747-R20F
HHT Keypad Replacement Overlay for German Memory Pak Firmware Releases 1.10	1747-R20G
HHT Keypad Replacement Overlay for Italian Memory Pak Firmware Releases 1.10	1747-R20I
HHT Keypad Replacement Overlay for English Memory Pak Firmware Releases 2.00 and Later	1747-R21
HHT Keypad Replacement Overlay for French Memory Pak Firmware Releases 2.00 and Later	1747-R21F

[Ⓜ] Insert the cable length code into the catalog number. Cable length codes are as follows: 10=1.0m, 25=2.5m, and 50=5.0m. For example, 1492-CABLE25H is a 2.5m cable.