

Auxiliary Battery Module

IC693ACC302

February 20, 2006

The IC693ACC302 Auxiliary Battery Module provides an extended memory backup time compared to that of the standard memory backup batteries for Series 90-30, Series 90-70, and PACSystems CPUs. The Auxiliary Battery Module replaces the standard CPU RAM backup battery in your control system.

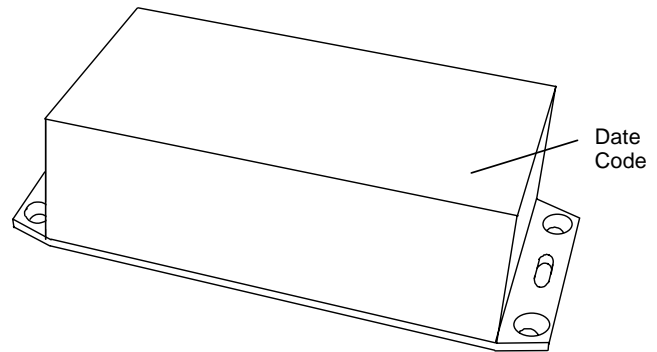
Related Documents

Series 90-70 Installation Manual, GFK-0262

Series 90-30 Installation Manual, GFK-0356

PACSystems RX7i Installation Manual, GFK-2223

PACSystems RX3i System Manual, GFK-2314



Pre-installation Check

Carefully inspect all shipping containers for damage. If any equipment is damaged, notify the delivery service immediately. Save the damaged shipping container for inspection by the delivery service. After unpacking the equipment, record all serial numbers. Save the shipping containers and packing material in case it is necessary to transport or ship any part of the system.

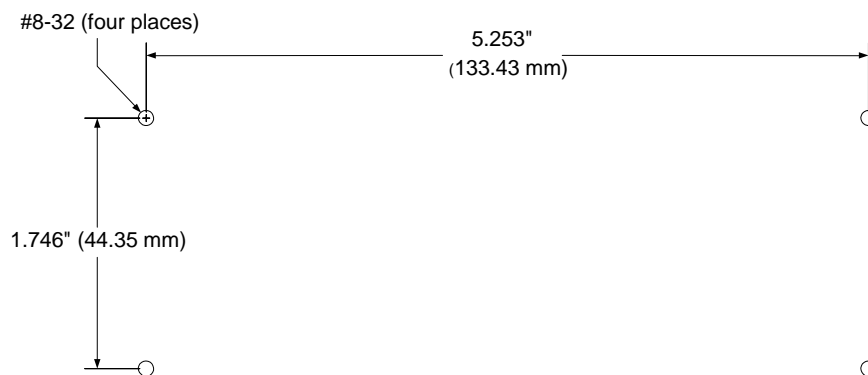
Date Code

The date code is located on the product label on the front of the auxiliary battery module. The date code consists of three digits, such as 211. The first digit represents the year of manufacture in the 21st century; such as 2 for 2002. The last two digits represent the fiscal week of manufacture; for example 11 stands for fiscal week 11.

Battery packs that have been in storage for several years (depending on the CPU type and how critical the application is) should be discarded because these units have a shelf life of seven years.

Installation

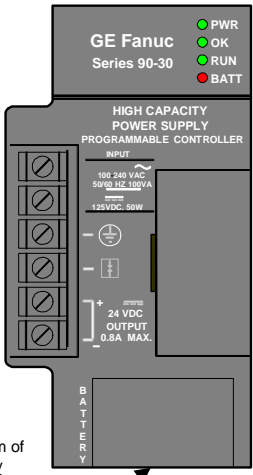
1. With power removed from the equipment, drill four #29 (0.136") holes in the panel mounting surface, and tap for #8-32 threads, according to the hole pattern shown in the following figure. Use care to keep metal chips from falling into other equipment.



2. Securely attach the Auxiliary Battery Module to the panel mounting surface using four #8-32 x 1/2" flat head machine screws.

GFK-2124C

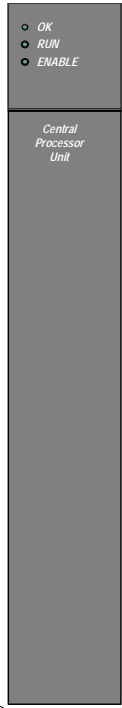
- Connect the cable from the battery module to the battery connector on the PLC. (Note that the battery will begin to drain immediately unless power is applied. To maximize battery life, it is recommended that you install it after power has been turned on.)



Slot in bottom of power supply

The battery connector is located on the power supply module in the CPU baseplate. The cable must be routed through the slot in the bottom of the battery compartment.

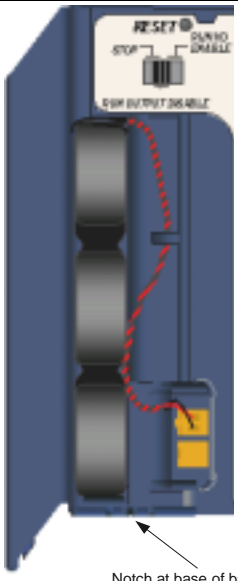
Series 90-30



Opening in bottom of CPU module

The battery connector is on the CPU module. The cable must be routed out the bottom of the CPU module.


Series 90-70



Notch at base of battery compartment

The battery connector is on the CPU module. Run the battery cable into the notch at the bottom of the battery compartment and close the battery door.

PACSystems RX3i



Slot in battery access door

The battery connector is on the CPU module. Run the battery cable through the slot on the battery door and reinstall the battery door.

An earlier version RX7i CPU may not have a notch in its battery door. For these CPUs, either replace the door (supplied with the IC698ACC701 replacement battery) or leave the door off.

PACSystems RX7i

Be careful not to pinch the battery cable when closing the battery compartment cover.

4. Remove the standard memory backup battery from the system after installing the auxiliary battery module.

Note: Refer to the appropriate installation manual for details on avoiding loss of PLC memory contents when replacing a memory backup battery. **The standard memory backup battery must be removed from the system when using the auxiliary battery module.**

Diagnostics

Note: Any testing of this unit should be performed only by qualified personnel who are trained in electrical safety practices and procedures. This unit is not user-serviceable. The unit has a built-in 1-Amp fuse that will open if the unit is subjected to a short-circuit or severe overload condition. This fuse is sealed inside the battery pack and is not replaceable.

To test the unit if you suspect that the fuse has opened, turn off PLC power, unplug the battery unit, and carefully check the battery cable connector pins for presence of voltage with a volt meter. If voltage is present, the fuse is not open. If no voltage is present, the internal fuse has probably opened and the unit will have to be replaced.

Disposal

Once this product has lived its useful life, dispose of it safely according to the battery manufacturer’s Material Safety Data Sheet (MSDS) that is included with this product.

Specifications

<i>Parameter</i>	<i>Specification</i>
Battery capacity	15.0 Amp-hours
Physical dimensions	5.713" long x 2.559" wide x 1.571" high (145.1 x 65.0 x 39.9 mm)
Case material	Black, flame-retardant ABS plastic
Connection	2.0' (0.6 meter) twisted red/black 24 AWG lead with female 2-pin connector
Compatibility	Compatible with battery connectors on Series 90-30 power supplies, Series 90-70 CPUs, and PACSystems CPUs
Operating temperature range	0 to +60°C
Nominal shelf life	7 years

Nominal Memory Backup Life*

<i>CPU Model</i>	<i>0°C</i>	<i>20°C</i>	<i>60°C</i>
Series 90-30 IC693CPU374	10 months	15 months	17 months
Series 90-30 (IC693) CPUs 311 – 364 All Series 90-70 (IC697) CPUs	51 months	75 months	88 months
PACSystems RX3i IC695CPU310, IC695CMU310	136 days	200 days	234 days
PACSystems Rx7i IC698CPE010, IC698CPE020, IC698CRE020	136 days	200 days	234 days
PACSystems RX7i IC698CPE030, IC698CPE040	20 days	30 days	35 days

* The nominal backup values are estimated at 20°C. Backup time increases approximately 17% at 60°C and decreases approximately 32% at 0°C.