

KIT PART NUMBER 2352328

INSTRUCTIONS FOR INSTALLING A SMARTWATCH RAM IN THE POSTAL COMMODITY MACHINE PCM-1625B

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING, CONTACT THE CENTRAL REPAIR FACILITY IMMEDIATELY.

Read these instructions carefully before installing the kit.
Keep these instructions for part numbers and for future reference.

This kit contains the following:

INDEX	PART NUMBER	DESCRIPTION	QUANTITY
1	9980320	IC - SMARTWATCH W/RAM - 32K X 8	1
2	2352328	KIT INSTRUCTIONS	1

Proceed as follows:

Refer to MS-134 as directed.

Preparation

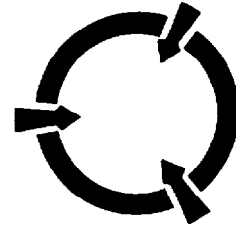
WARNING

Lethal voltages are present. Death or injury to personnel may result if proper safety precautions are not followed.

1. Disconnect and lock out power.
2. Disconnect J59. It is located behind the power panel assembly. It is the only 4 pin inline connector behind the power panel assembly (see schematic).



CAUTION



PREVENTING CIRCUIT DAMAGE FROM ELECTRO-STATIC DISCHARGE

This microcircuit is easily damaged by electro-static discharge. A surge of 100 volts or less can cause problems in micro-electronic circuits. Much larger charges are very easy to create. For example, sitting on a varnished wooden stool can generate 20,000 volts and simply walking across the floor can product up to 50,000 volts.

Fortunately, much can be done to greatly reduce electro-static discharge and the damage it can cause. A successful plan for controlling static discharge includes the following steps:

Eliminate potential sources of friction. Carpet is especially troublesome. Carpet should be treated periodically with an "anti-static" solution;

Avoid a low humidity environment. Humidity levels of 50% or more tend to discourage the formation of static charges;

Provide each machine with a separate, properly grounded outlet;

Use a conductive wrist-strap which is grounded to the machine when servicing controller boards. An anti-static mat should be used when servicing boards outside of the machine;

Use anti-static containers and packaging for storing and transporting circuit boards and individual EPROMs.

Replacement of the Smartwatch RAM (U3) Chip

CAUTION

Observe electrostatic discharge procedures when removing the controller assembly or its components.

3. Refer to Figure 4-21 on page 4-35 in MS-134. Loosen the two screws on the lower side of the controller cover. Remove the two screws on the upper side of the controller cover. Slide the controller cover up and remove.
4. Locate the Smartwatch RAM (U3) in the figure below. Find U3 on the controller assembly. Carefully remove U3 using a chip puller or a small screwdriver. Use the small screwdriver to pry the chip free. Save the chip for return.
5. Carefully install the new Smartwatch RAM (U3) making sure the dot is in the upper left hand corner. Firmly press it into position, insuring that the chip pins are inserted into the socket and are not bent.
6. Position the cover over the controller board. Install the two screws in the top of the cover. Tighten all screws.
7. Reconnect J59 and restore power to the machine.
8. Run the Operational Checkout Procedures (MS-134, Table 2-16, Page 2-31).
9. Return the PCM-1625B to service.

