

## KIT PART NUMBER 2352221

### INSTRUCTIONS FOR INSTALLING A NICKEL COIN HOPPER 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	2352215	LABEL - NICKEL	1
2	2352216	LABEL - NICKEL, QUARTER, OR DOLLAR	1
3	2352217	LABEL - NICKEL OR QUARTER	1
4	2352323	IC ASSEMBLY - EPROM - PROG - CONTROLLER	1
5	2352220	KIT INSTRUCTIONS	1
6		NICKEL HOPPER	1

Proceed as follows:

Refer to MS-134 as directed.

#### Preparation

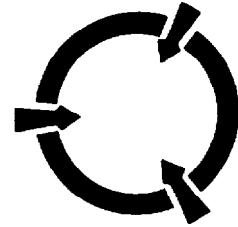
#### **WARNING**

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

1. Use Table 2-30 (MS-134) to remove and audit dimes from the dime hopper. Keep a record of the number of dimes that are removed.
2. Disconnect and lock out power.
3. 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 EPROM 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;**

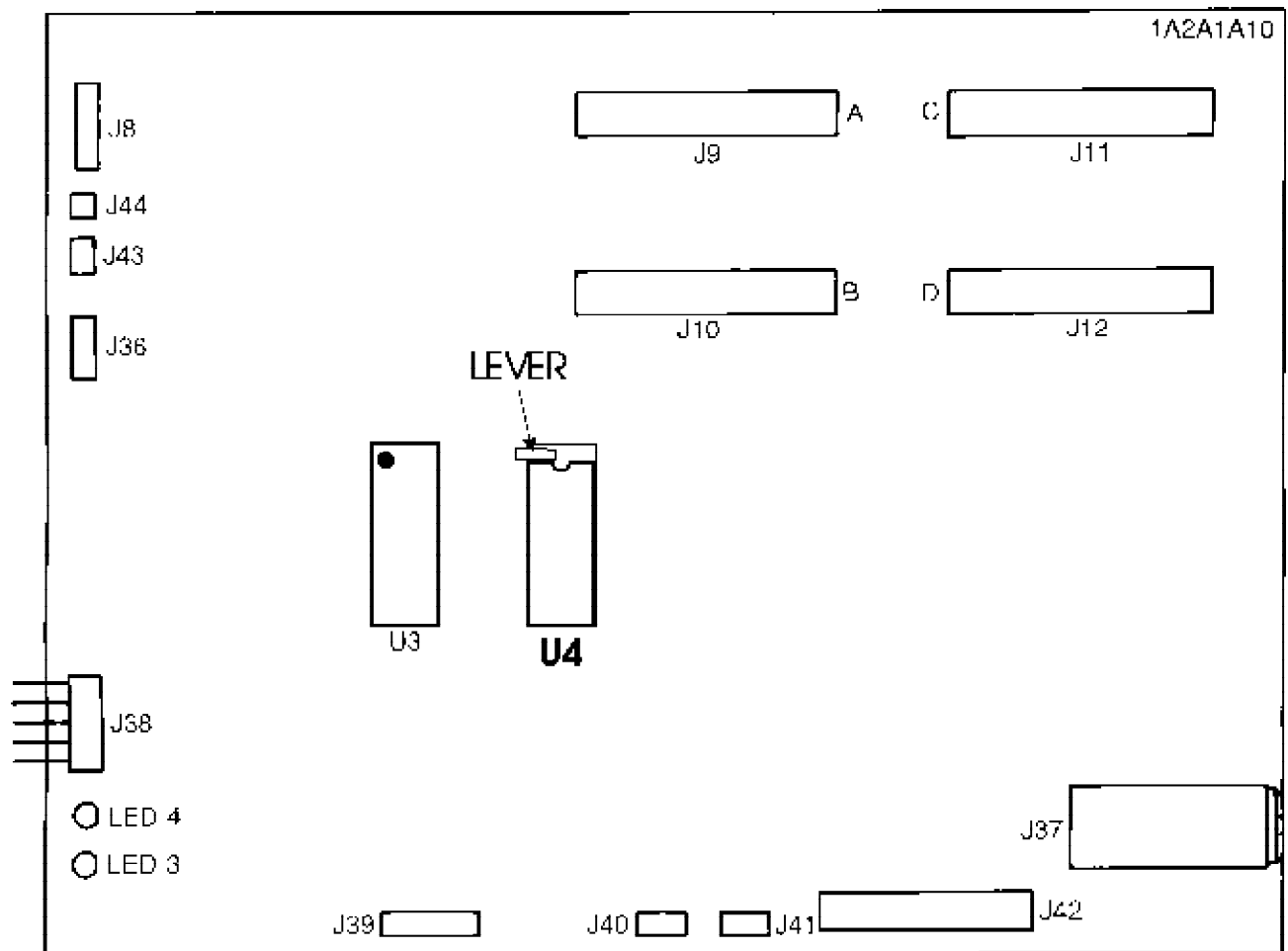
**Use anti-static containers and packaging for storing and transporting circuit boards and individual EPROMs.**

## Replacement of the EPROM (U4Z) Chip

### CAUTION

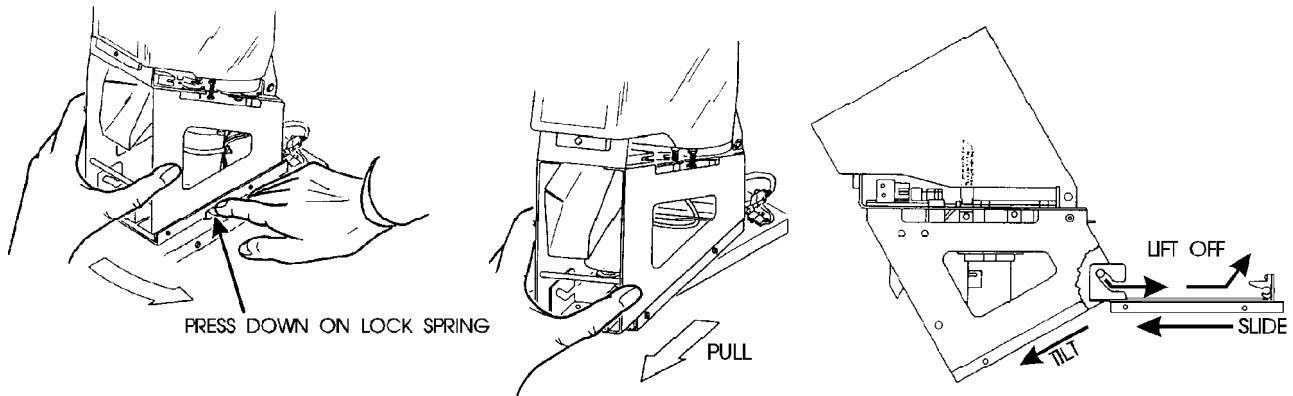
Observe electrostatic discharge procedures when removing the controller assembly or its components.

4. 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.
5. Locate the EPROM (U4) in the figure below. Find U4 on the controller assembly. Carefully release the lever on top of the chip. This releases the chip. Hold the chip to keep it from falling out. Carefully pull the chip out. Save the chip for return.
6. Carefully install the new EPROM (U4) making sure the notch is pointing up. Firmly press it into position, insuring that the chip pins are inserted into the socket and are not bent. Close the lever at the top of the chip to secure the chip.
7. Position the cover over the controller board. Install the two screws in the top of the cover. Tighten all screws.

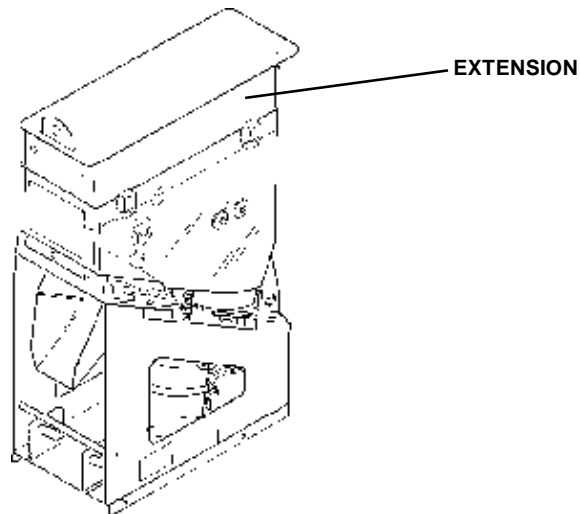


**Removal of the dime hopper (MS-134, page 4-73, paragraph 4.3.58.1)**

8. Disconnect the two electrical connectors from the dime coin hopper.
9. Press the retaining button and pivot the dime coin hopper away from the door.
10. Pull the dime coin hopper away from the pivot point.
11. Swivel the dime coin hopper away and off its mounting as shown.

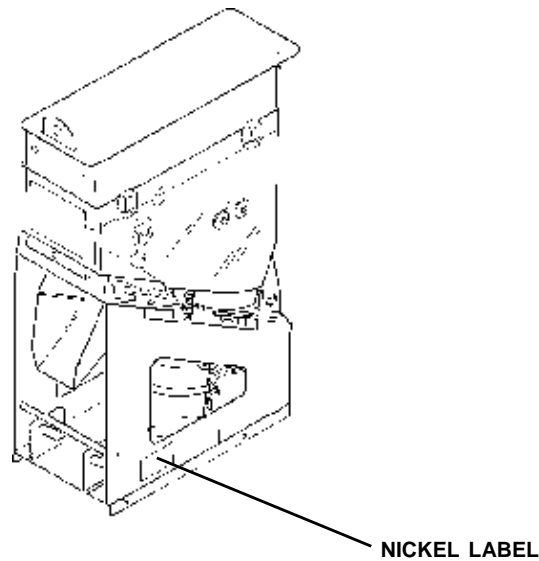


12. Remove the dime coin hopper.
13. Remove the extension from the dime coin hopper and install it on the new nickel coin hopper.



**Install the Nickel Coin Hopper.** (Uses the same steps as the dime and quarter replacement procedure, MS-134, page 4-73, Paragraph 4.3.58.2.)

14. Swivel the nickel coin hopper up and off its mounting. Install this mounting to the old dime hopper.
15. Fit the nickel coin hopper down into its tracks.
16. Push the nickel coin hopper toward pivot point until it snaps into place.
17. Connect the two electrical connectors.
18. Pivot the nickel coin hopper back into normal position.
19. Apply the nickel label (1) to the nickel coin hopper in the location shown below.



20. Remove the dollar, quarter, or dime label (figure 5-20 item #6, MS-134, page 5-48), and replace with the nickel, quarter, or dollar label (2).
21. Remove the quarter, or dime label (figure 5-20 item #5, MS-134, page 5-48), and replace with the nickel or quarter label (3).
22. Fill the nickel hopper with a precounted number of nickels.
23. Reconnect J59 and restore power to the machine.
24. Reprogram the PCM-1625B for use with the nickel hopper.
25. Run the Operational Checkout Procedures (MS-134, Table 2-16, Page 2-31).
26. Return the PCM-1625B to service.
27. Place the old EPROM in a statically protected package, and place in the bowl of the dime hopper.
28. Ship the EPROM and dime hopper to the following address:

Attn: Richard Mines  
Asahi Seiko, USA, Inc.  
4029 S. Industrial Road  
Las Vegas, Nevada 89103  
Authorization Number: RMA USPS 10