

INSTRUCTIONS FOR INSTALLING A SELECTION ASSEMBLY REPLACEMENT KIT IN A NATIONAL VENDORS®, CROWN SEVENTY-TWO®, SERIES OR GOLDEN FURNITURE LINE, HBM-72, HBM-72Q, HBM-614, OR HBM-618 HOT BEVERAGE MERCHANDISER

I. Introduction

These instructions cover the procedures for installing a Selection Assembly Replacement Kit in a Crown Seventy-Two, Series or Golden Furniture Line, HBM-72, HBM-72Q, HBM-614, or HBM-618 Hot Beverage Merchandiser.

Read these instructions carefully and thoroughly before installing the Kit. Retain these instructions for part number and installation information. These instructions apply to Fifteen different Kits.

Each Kit applies to only those Merchandisers having the particular Selection Assembly the Kit replaces. The part number of the Selection Assembly the kit replaces is given and the Push Buttons that the Selection Assembly has are given by number. See Figure 3c. Be sure that the Selection Assembly being replaced has the same Push Buttons as the Replacement Selection Assembly. There is no need to add or remove any Push Buttons from the Selection Assembly included in the Kit.

Depending on the model of Merchandiser on which the Selection Assembly is being replaced, all the parts included in the Kit may or may not be used. If converting a HBM-72 or HBM-72Q with Dual Pricing, both Jumper Harnesses included in the Kit will be used. If converting a HBM-614, HBM-618, or HBM-72 or HBM-72Q without Dual Pricing, only one Jumper Harness will be used. The Window and Shield Assembly and Selection Assembly included in each Kit will be used on all conversions.

The operation of the Vend Start Switch and the Coffee Cutoff Switch is reversed on the new Selection Assembly. On the old Selection Assembly both switches are in the Normally Open position. On the new Selection Assembly both switches are in the Normally Closed position. Therefore, the wire connections shown for the Normally Open and Normally Closed terminals on each switch must be interchanged and the status of both of the switches must be changed on the Wiring and Schematic diagrams.

Figure 5 shows the Wiring Diagram changes that must be made for each type of Merchandiser.

Figure 6 shows the Schematic Diagram changes that must be made for each type of Merchandiser.

II. Packing List

Kit, Part Number 611-2140, applies to the HBM-72, HBM-614, and HBM-618 Merchandisers equipped with Selection Assembly number 611-2066 having Selection Buttons 1,2,3,4,6,8,9 and 10 and having Time Delay. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2429	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2141, applies to the HBM-72 Merchandisers equipped with Selection Assembly number 611-2067 having Selection Buttons 1,2,3,4,6,8,9, and 10 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2423	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2142, applies to the HBM-72 HBM-614, and HBM-618 Merchandisers equipped with Selection Assembly number 611-2068 having Selection Buttons 1,2,3,4,5,6,8,9 and 10 and having Time Delay. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2431	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2143, applies to the HBM-72 Merchandisers equipped with Selection Assembly number 611-2069 having Selection Buttons 1,2,3,4,5,6,8,9 and 10 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2422	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

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Kit, Part Number 611-2144, applies to the HBM-72 and HBM-614 Merchandisers equipped with Selection Assembly number 611-2070, or 613-2030, both having Selection Buttons, 1,2,3,4,6,7,8,9 and 10 and having Time Delay. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2430	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2145, applies to the HBM-72 Merchandisers equipped with Selection Assembly number 611-2071 having Selection Buttons 1,2,3,4,6,7,8,9 and 10 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2421	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2146, applies to the HBM-72 and HBM-614 Merchandisers equipped with Selection Assembly number 611-2072 or 613-2031, both having Selection Buttons, 1,2,3,4,5,6,7,8,9 and 10 and having Time Delay. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2432	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 611-2147, applies to the HBM-72 Merchandisers equipped with Selection Assembly number 611-2073 having Selection Buttons 1,2,3,4,5,6,7,8,9 and 10 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2424	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2019, applies to the HBM-72Q and HBM-614 Merchandisers equipped with Selection Assembly number 612-2003 having Selection Buttons 1,2,3,4,6,8 and 9. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2425	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2020, applies to the HBM-72Q and HBM-614 Merchandisers equipped with Selection Assembly number 612-2006 having Selection Buttons 1,2,3,4,5,6 and 8. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2427	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2021, applies to the HBM-72Q Merchandisers equipped with Selection Assembly number 612-2009 having Selection Buttons 1,2,3,4,6,8 and 9 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2417	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2022, applies to the HBM-72Q Merchandisers equipped with Selection Assembly number 612-2010 having Selection Buttons 1,2,3,4,5,6,8 and 9 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2419	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2023, applies to the HBM-72Q and HBM-614 Merchandisers equipped with Selection Assembly number 612-2013 having Selection Buttons 1,2,3,4,6,7,8, and 9. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2426	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 612-2024, applies to the HBM-72Q Merchandisers equipped with Selection Assembly number 612-2014 having Selection Buttons 1,2,3,4,6,7,8, and 9 and having Dual Pricing. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2418	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

Kit, Part Number 613-2238, applies to the HBM-614 Merchandiser equipped with Selection Assembly number 613-2029 having Selection Buttons 1,2,3,4,5,6,7,8 and 9. This kit contains the following parts:

Part Number	Description	Quantity
312-2018	Window and Shield Assembly	1
613-2428	Selection Assembly	1
611-2148	Jumper Harness	2
611-2149	Ejector Tool	1
613-2237	Installation Instructions	1
	* * *	

III. To Install the Kit

NOTE

Steps 1 thru 16 apply to all Merchandisers.

1. Disconnect the Service Cord from the Wall Receptacle.
2. Open the Cabinet Door.
3. Move the Main Switch on the Control Panel to the OFF position.
4. Loosen the two screws at the bottom of the Window and Shield Assembly. Do not remove the screws. See Figure 1.

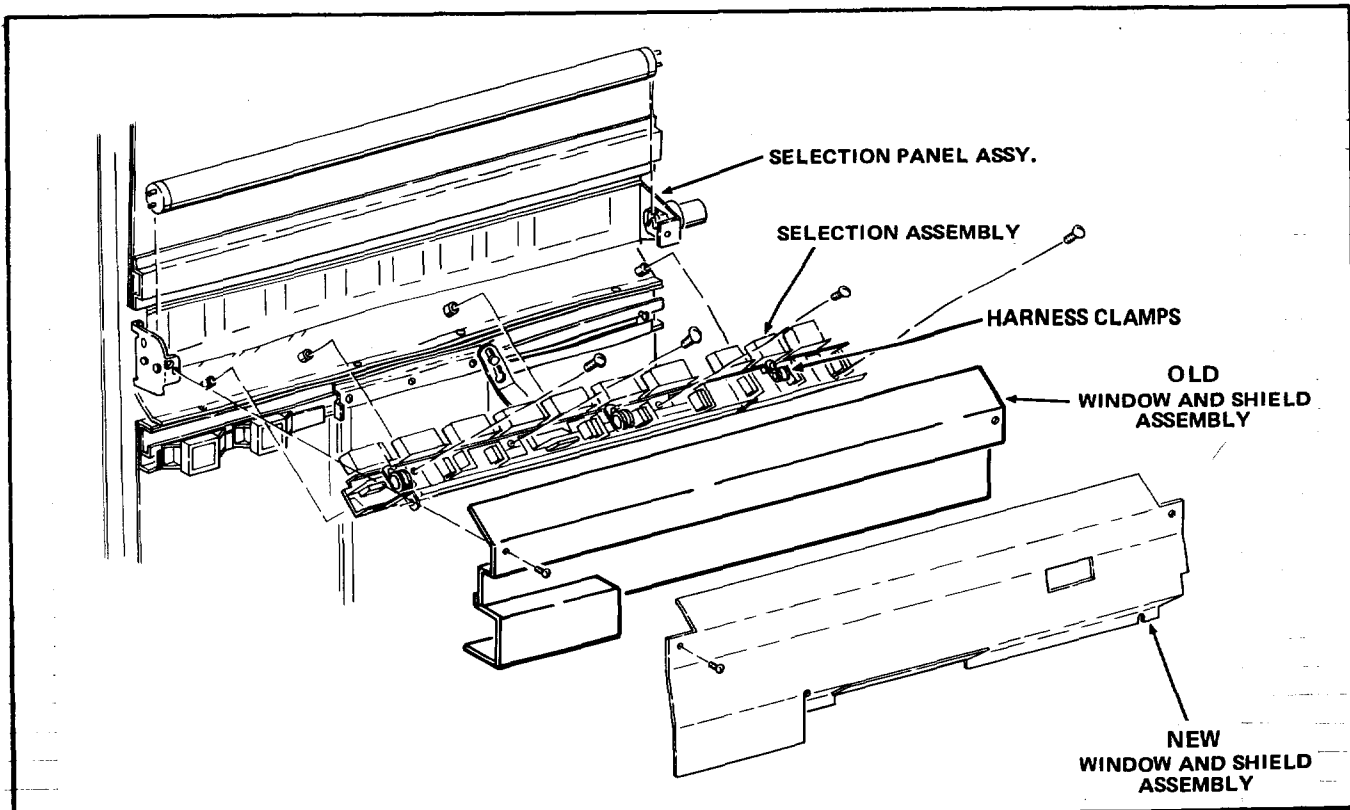


FIGURE 1

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5. Remove the two screws at the top of the Window and Shield Assembly. Save the screws. See Figure 1.
6. Lift the Window and Shield Assembly off of the Door.
7. Remove the 25 watt Fluorescent Lamp. See Figure 1.
8. Remove the Four screws attaching the Selection Assembly to the Door. Save the Screws. See Figure 1.
9. Carefully pull the Push Buttons on the Selection Assembly out of the holes in the Selection Panel Assembly and allow the Selection Assembly to hang down below the Selection Panel Assembly. Make sure that no wires are pulled loose. See Figure 1.
10. Remove three attaching screws and the three Harness Clamps from the old Selection Assembly. See Figure 1.
11. Using an offset screwdriver, remove six attaching screws and the three Clamp Mounting Brackets from the old Selection Assembly. See Figure 2.
12. Remove six attaching screws and the three Clip and Support Assemblies from the replacement Selection Assembly included in the kit. See Figure 2.
13. Using the six screws removed in Step 12, attach the three Clamp Mounting Brackets removed in Step 11 to the replacement Selection Assembly. The Clamp Mounting Brackets attach through the same holes which mounted the Clip and Support Assemblies. See Figure 2.
14. Place the Selection Assembly included in the Kit in position putting the Push Buttons on the Selection Assembly through the holes in the Selection Panel Assembly and attach with the Four screws removed in step 8.
15. Remove both wires from the Selection Solenoid on the old Selection Assembly and attach them to the two wires of one of the two Jumper Harnesses included in the Kit. Either wire for the Solenoid may be attached to either wire of the Jumper Harness. See Figure 3b.
16. Attach the other end of the two wires in the Jumper Harness to the terminals of the Selection Solenoid on the new Selection Assembly. See Figure 3a.
17. Remove the red/yellow double wire No.1 and No.47 from the Vend Start Switch on the old Selection Assembly and attach it to the Common terminal of the Vend Start Switch on the new Selection Assembly. See Figure 3a.
18. Remove the red/green wire No.2 from the Vend Start Switch on the old Selection Assembly and attach it to the Normally Open terminal of the Vend Start Switch on the new Selection Assembly. See Figure 3a.
19. Remove the orange/white double wire No.36 and No.52 from the Coffee Cutoff Switch on the old Selection Assembly and attach it to the Common terminal of the Coffee Cutoff Switch on the new Selection Assembly. See Figure 3a.
20. Remove the orange/black wire No.7 from the Coffee Cutoff Switch on the old Selection Assembly and attach it to the Normally Open terminal of the Coffee Cutoff Switch on the new Selection Assembly. See Figure 3a.
21. Remove the orange/blue wire No.8 from the Coffee Cutoff Switch on the old Selection Assembly and attach it to the Normally Closed terminal of the Coffee Cutoff Switch on the new Selection Assembly. See Figure 3a.
22. Remove the white double wire No.45 and No.46 from the Dual Price Switch on the old Selection Assembly and attach it to the white wire on the remaining unused Jumper Harness included in the kit.
23. Attach the other end of the white wire on the Jumper Harness to the Common Terminal of the Dual Price Switch on the new Selection Assembly. See Figure 3a.
24. Remove the blue wire No.67 from the Dual Price Switch on the old Selection Assembly and attach it to the blue wire on the Jumper Harness.
25. Attach the other end of the blue wire on the Jumper Harness to the Normally Closed terminal of the Dual Price Switch on the new Selection Assembly. See Figure 3a.

NOTE

Steps 22 thru 25 apply only to those HBM-72 and HBM-72Q Merchandisers equipped with Dual Pricing.

NOTE

Steps 26 thru 45 apply only to the HBM-614 and HBM-618.

Steps 17 thru 21 apply only to the HBM-72 and HBM-72Q.

26. Remove the three-wire Receptacle Housing from the Vend Start Switch on the old Selection Assembly. See Figure 3b.
27. Insert the narrow end of the Ejector Tool included in the Kit, into the notch holding the Spring Clip on the black wire No.4 in the Receptacle Housing. Either notch may hold the Spring Clip. See Figure 4.

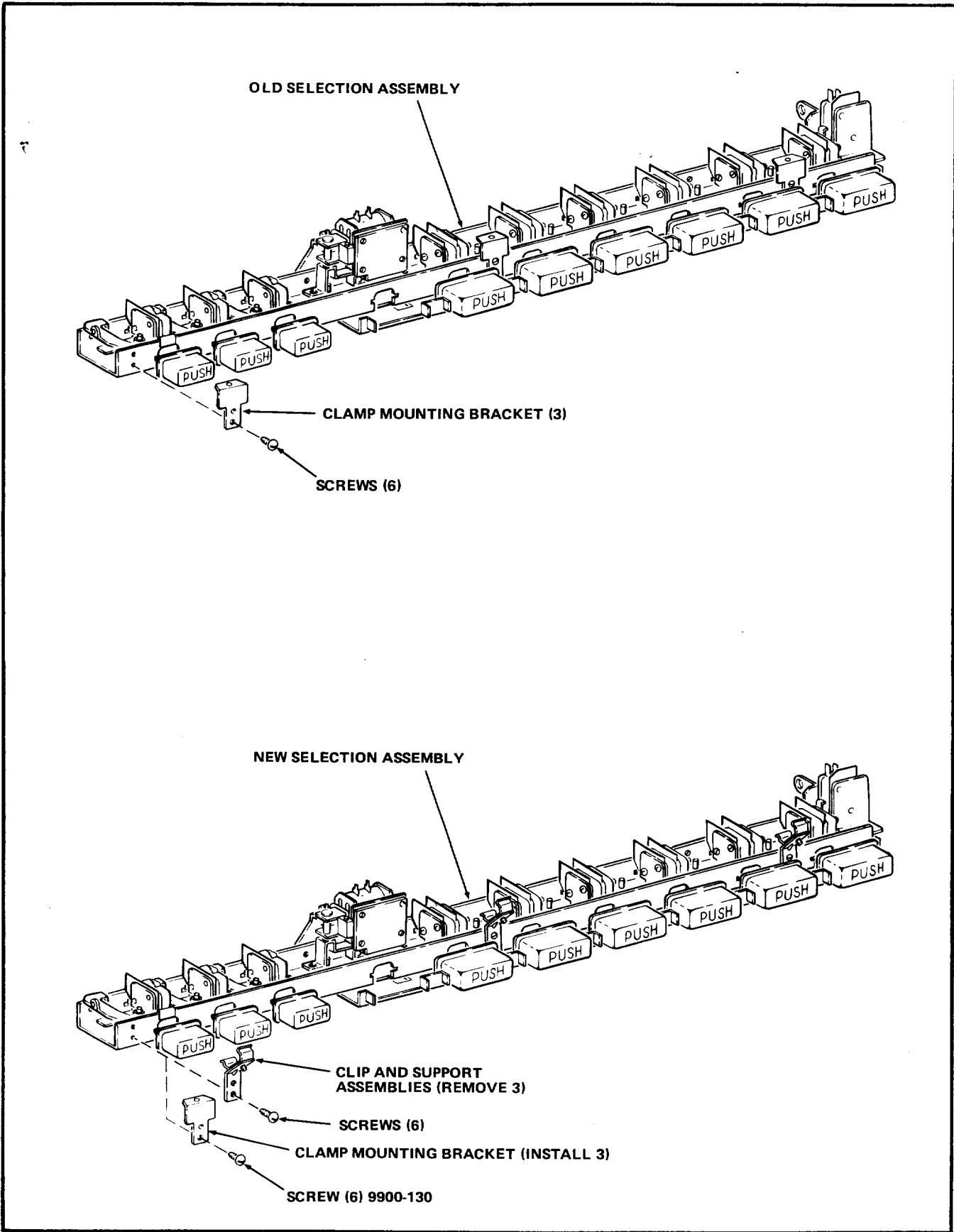


FIGURE 2

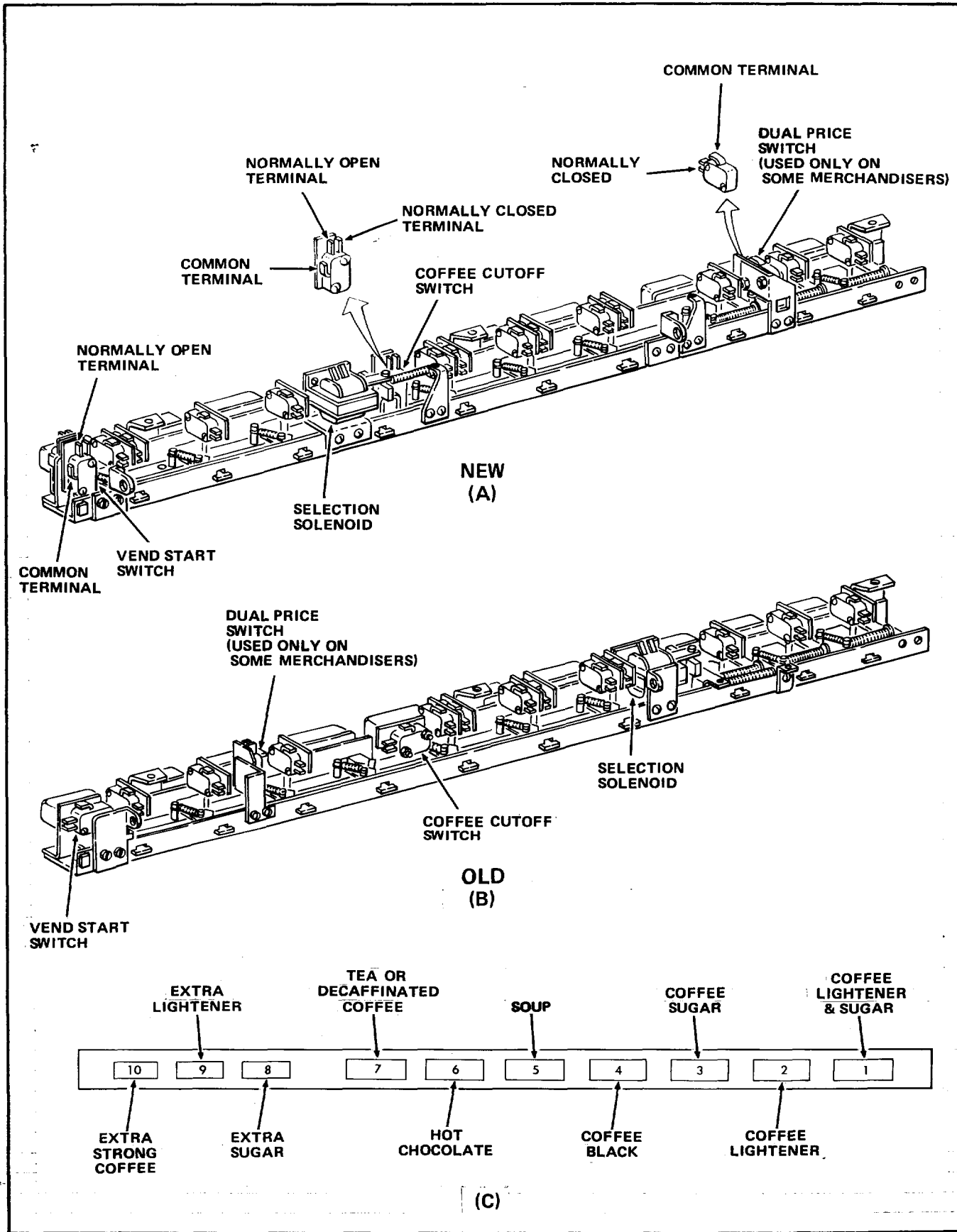


FIGURE 3

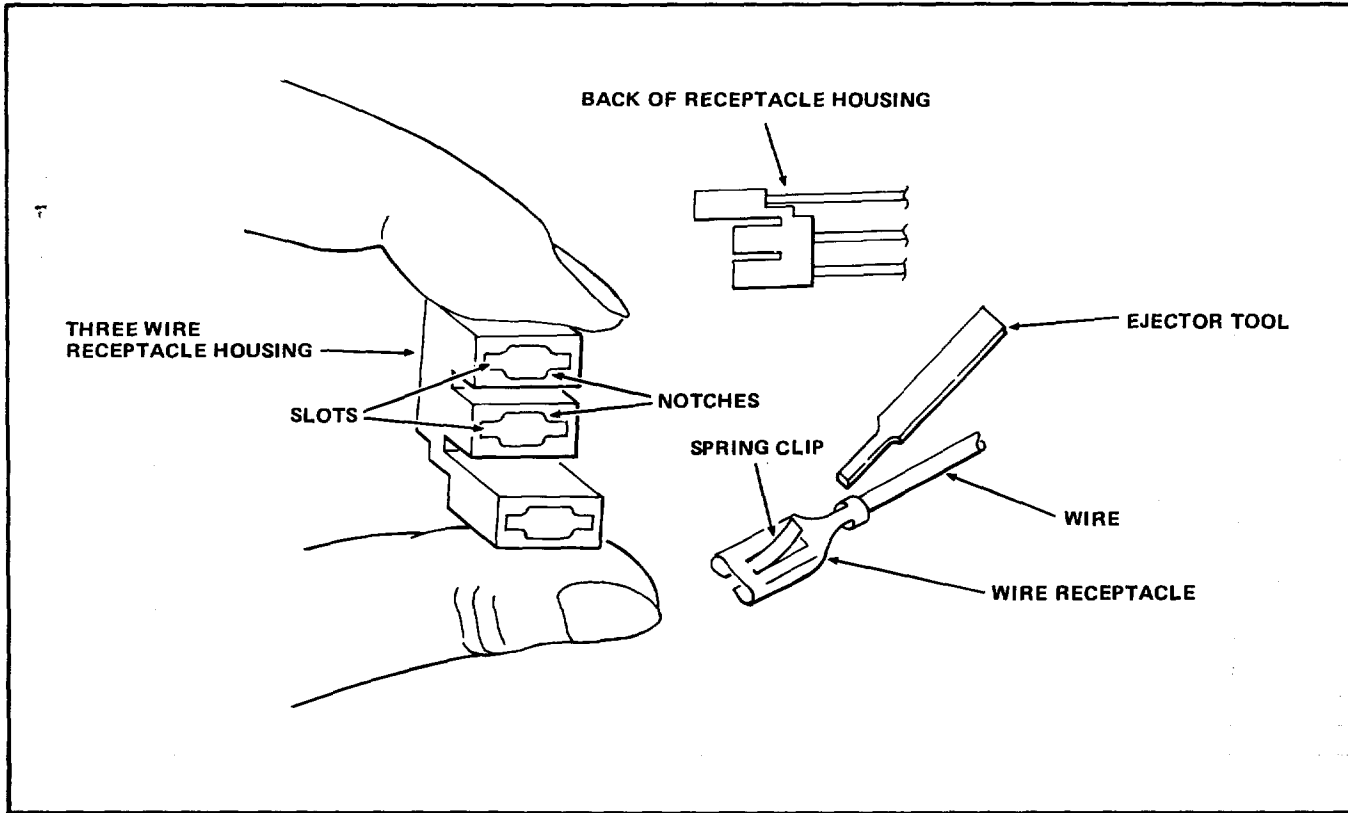


FIGURE 4

28. Lift up firmly on the wide end of the Ejector Tool then remove the tool from the notch.
29. Pull the black wire No.4 out of the back of the Receptacle Housing.

NOTE

If the wire can not be pulled out of the Receptacle Housing in step 29, insert the Ejector Tool in the other notch of the slot and repeat steps 28 and 29.

30. Insert the narrow end of the Ejector Tool under the Spring Clip on the black wire No.4 which was removed in step 29. See Figure 4.
31. Lift up on the wide end of the tool to raise the Spring Clip to the position shown in Figure 4.
32. Remove the tool and insert the black wire No.4 into the center slot in the three wire Receptacle Housing from which it was removed. See Figure 4.
33. Attach the Receptacle Housing to the Vend Start Switch on the new Selection Assembly. See Figure 3a.
34. Remove the three wire Receptacle Housing from the Coffee Cutoff Switch on the old Selection Assembly. See Figure 3b.

35. Insert the narrow end of the Ejector Tool into the notch holding the Spring Clip on the black wire No.7 in the Receptacle Housing. Either notch may hold the Spring Clip. See Figure 4.

36. Lift up firmly on the wide end of the Ejector Tool then remove the tool from the notch.

37. Pull the black wire No.7 out of the back of the Receptacle Housing.

38. Insert the narrow end of the Ejector Tool into the notch holding the Spring Clip on the black wire No.28 in the Receptacle Housing. Either notch may hold the Spring Clip. See Figure 4.

39. Lift-up firmly on the wide end of the Ejector Tool then remove the tool from the notch.

40. Pull the black wire No.28 out of the back of the Receptacle Housing.

41. Insert the narrow end of the tool under the Spring Clip on the black wire No.7 and lift-up on the wide end of the tool to raise the Spring Clip to the position shown in Figure 4.

42. Repeat step 41 for black wire No.28.

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43. Insert the black wire No.28 into the center slot in the Receptacle Housing from which it was removed.
44. Insert the black wire No.7 into the remaining slot in the Receptacle Housing.
45. Attach the Receptacle Housing to the Coffee Cutoff Switch on the new Selection Assembly. See Figure 2a.

NOTE

Steps 46 thru 53 apply to all Merchandisers.

46. Remove each of the remaining wires, one at a time, from the switches on the old Selection Assembly and attach them to the corresponding terminals on the corresponding switches on the new Selection Assembly.

WARNING

Each wire disconnected from the old Selection Assembly must be reconnected to the new Selection Assembly and each wire must be connected to the correct terminal on the new Selection Assembly.

Failure to reconnect each wire used on the old Selection Assembly or to connect each wire to the correct terminal on the new Selection Assembly may result in Electrical Shock to the Serviceman and Customer and Merchandiser malfunction or damage.

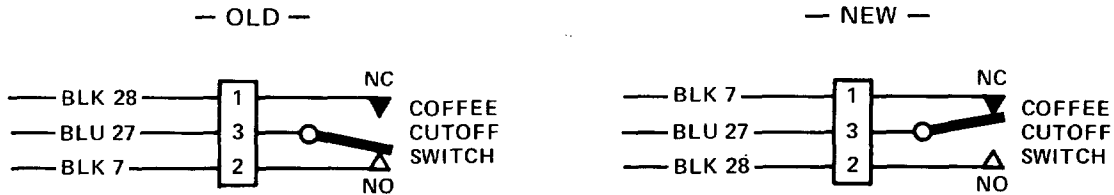
47. Install the three Harness Clamps and attaching Screws, removed in Step 10, on the new Selection Assembly.
48. Replace the 25 watt Fluorescent Lamp removed in step 7.

NOTE

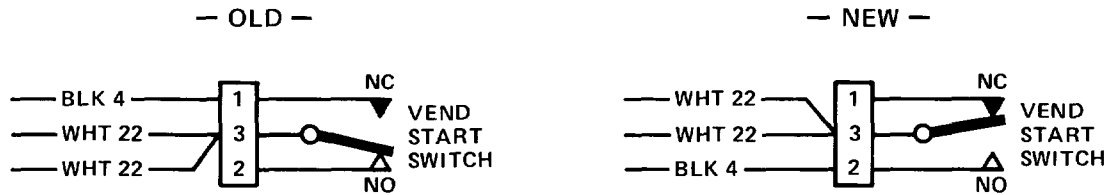
Be sure that no wires interfere with the movement of the Selection Solenoid Arm.

49. Install the new Window and Shield Assembly with the screws removed from the old Window and Shield Assembly in step 5.
50. Reconnect the Service Cord to the Wall Receptacle.
51. Move the Main Switch on the Control Panel to the ON position.
52. Close the Cabinet Door.
53. Test vend the Merchandiser.

HBM-614 AND HBM-618 ONLY

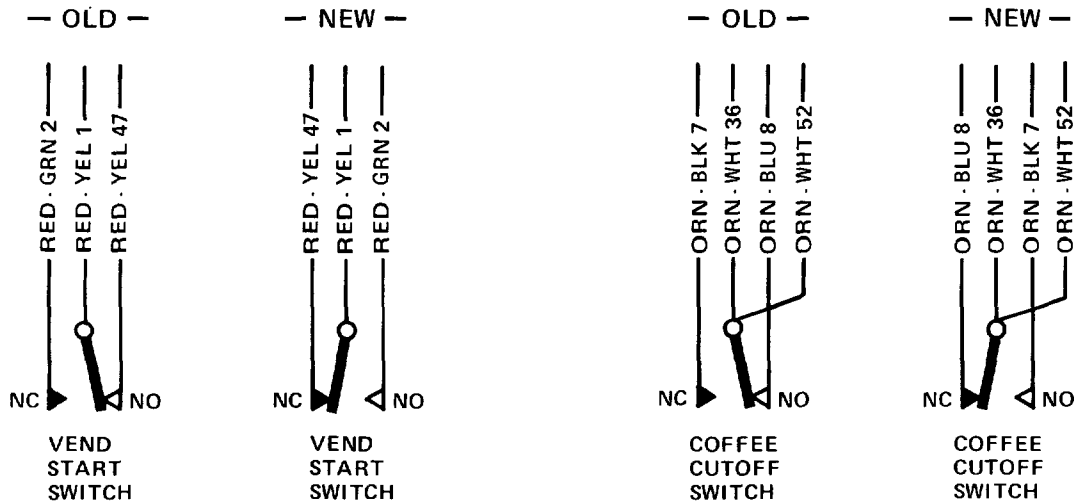


NOTE: Change wire connections. Change arm position from NO to NC.



NOTE: Change wire connections. Change arm position from NO to NC.

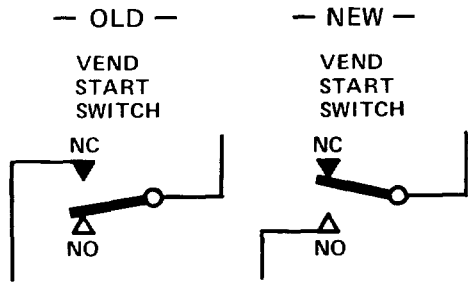
HBM-72 AND HBM-72Q ONLY



NOTE: Change wire connections. Change arm position from NO to NC.

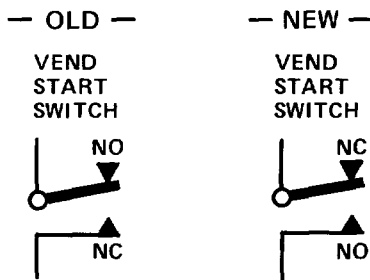
FIGURE 5

HBM-614 AND HBM-618 ONLY



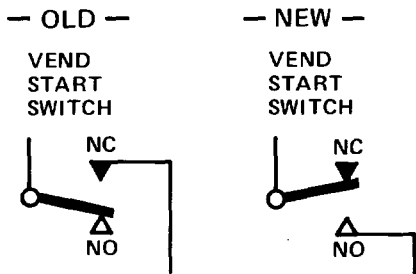
NOTE: Change wire from NC to NO.
Change arm position from NO to NC.

HBM-72 ONLY



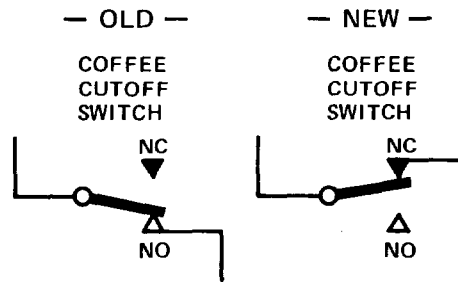
NOTE: Change NO to NC and NC to NO.

HBM-72Q ONLY



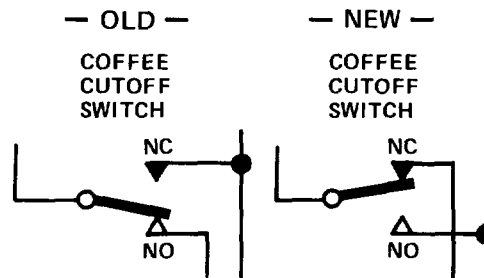
NOTE: Change wire from NC to NO.
Change arm position from NO to NC.

HBM-618 ONLY



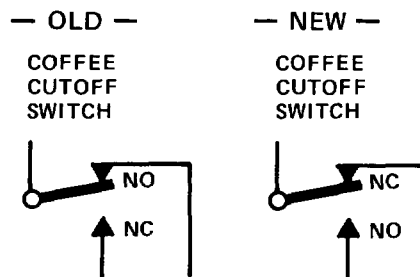
NOTE: Change wire from NO to NC.
Change arm position from NO to NC.

HBM-614 ONLY



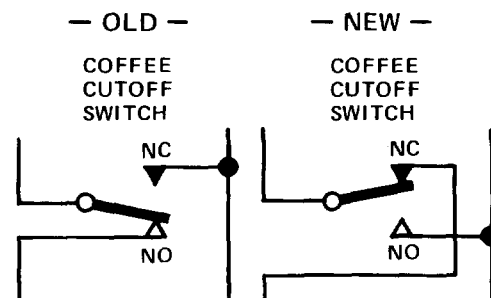
NOTE: Change wire connections.
Change arm position from NO to NC.

HBM-72 ONLY



NOTE: Change NO to NC and NC to NO.

HBM-72Q ONLY



NOTE: Change wire connections.
Change arm position from NO to NC.

FIGURE 6