

INSTRUCTIONS FOR INSTALLING A KIT TO UP-GRADE A NATIONAL VENDORS[®], ALL COIN
 MANUAL RECORDER - ACMR SERIES 100, SERIES 560, SERIES 5100, OR SERIES 130 TO AN
 ACMR, SERIES 160 COIN MECHANISM

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. FIGURE 1 SHOWS ALL THE PARTS IN THE KIT. IF ANY PARTS ARE MISSING, CONTACT NATIONAL VENDORS' PARTS DEPARTMENT IMMEDIATELY.

The parts of the All Coin Manual Recorder Up-Grading Kit, Part Number 5569-010, when installed, will convert any National Vendors, ACMR Series 100, Series 560, Series 5100, or Series 130 Coin Mechanism to the ACMR Series 160 configuration. The ACMR Series 160 provides pricing possibilities from \$1.00 to, and including, \$1.60. The Price Setting Instructions Label, Part Number 5569-003, included in the Kit, gives the specific pricing arrangements possible with an ACMR that has been converted to the Series 160 configuration.

The Up-grading Kit, Part Number 5569-010, contains the following parts:

Part Number	Description	Quantity
5569-007	Recorder Mechanism Assembly attaching parts	1
5560-107	No.6-32 x 3/8" FH Machine Screw W/LW	1
9900-151	No.6-32 x 5/16" TH Machine Screw W/LW	3
5560-262	Low Price Information Label	1
5569-003	Price Setting Instruction Label	1
5569-002	ACMR Series 160 Label	1
5569-011	Display Instruction Label	1
9900-412	.125" Retaining Ring	1
9900-415	.156" Retaining Ring	1
5569-012	Installation Instruction	1
	* * *	

Before starting the work of installing the parts of the Kit, carefully and thoroughly read the following instructions. We further suggest, that before the work is started, those parts of the instructions that should not be followed for the Coin Mechanism being converted, be marked out to prevent accidental observance of the steps not required.

To Install the Kit.

1. Remove the Coin Mechanism from the Merchandiser and place the Mechanism, Cover Assembly up, on a flat surface.
2. Remove the Price Disc Cap Assembly.
3. Remove the Price Disc Assembly.

4. Remove the eight No.6-32 x 1/4" Self-tapping Pan Head Screws which attach the Cover Assembly. See Figure 2.
5. Remove the Coin Mechanism Cover Assembly.

NOTE

1. Before proceeding to step 6, push the Latch Release Assemblies up into the Recorder Mechanism Assembly. Inspect the end of the Latch Release Assemblies.
 - a. If the ends of the Latch Release Assemblies in the Coin Mechanism match the ends of the Latches shown in View "A" of Figure 3, follow steps 6 through 10, 15 through 30, and 42 through 76.
 - b. If the ends of the Latch Release Assemblies in the Coin Mechanism match the ends of the Latches shown in View "B" of Figure 3, the parts listed in Note 2 MUST be obtained and MUST be installed at the same time the parts of Kit are installed.
2. Additional parts required if the ends of the Latch Release Assemblies are shown in View "B" of Figure 3.

Part Number	Description	Quantity
5560-042	Rear Latch Release Assembly	1
5560-043	Center Latch Release Assembly	1
5560-044	Front Latch Release Assembly	1
5560-144	Rod Release Washer	3
9900-415	Retaining Ring	3
	* * *	

3. If the parts listed in Note 2 are to be installed follow steps 6 through 14, 20 through 41, and 46 through 76 of these instructions. Heed the Note given prior to step 46.
4. Check the condition of the Ratchet Reset Cam Level Roller Assembly. See Figure 9. If the Rollers show sign of wear, to prevent the necessity of future repairs to the Coin Mechanism caused by a defective Ratchet Reset Cam and Roller Assembly, install a new Ratchet Reset Cam and Roller Assembly, part number 5560-126, prior to performing step 24.

PRICE SETTING INSTRUCTIONS FOR NATIONAL VENDORS, SERIES 100, ALL COIN MECHANISM RECORDERS

GENERAL INFORMATION

The coin mechanism of the 10000 and 100000 series recorders is designed to accept coins of the following denominations: 1/4, 1/2, 1, and 2 dollars. The coin mechanism is designed to accept coins of the following denominations: 1/4, 1/2, 1, and 2 dollars. The coin mechanism is designed to accept coins of the following denominations: 1/4, 1/2, 1, and 2 dollars.

PRICE SETTING

1. Turn the Recorder up. See Figure 1.

2. Turn the Recorder up. See Figure 1.

3. Turn the Recorder up. See Figure 1.

4. Turn the Recorder up. See Figure 1.

5. Turn the Recorder up. See Figure 1.

6. Turn the Recorder up. See Figure 1.

7. Turn the Recorder up. See Figure 1.

8. Turn the Recorder up. See Figure 1.

9. Turn the Recorder up. See Figure 1.

10. Turn the Recorder up. See Figure 1.

11. Turn the Recorder up. See Figure 1.

12. Turn the Recorder up. See Figure 1.

13. Turn the Recorder up. See Figure 1.

14. Turn the Recorder up. See Figure 1.

15. Turn the Recorder up. See Figure 1.

16. Turn the Recorder up. See Figure 1.

17. Turn the Recorder up. See Figure 1.

18. Turn the Recorder up. See Figure 1.

19. Turn the Recorder up. See Figure 1.

20. Turn the Recorder up. See Figure 1.

21. Turn the Recorder up. See Figure 1.

22. Turn the Recorder up. See Figure 1.

23. Turn the Recorder up. See Figure 1.

24. Turn the Recorder up. See Figure 1.

25. Turn the Recorder up. See Figure 1.

26. Turn the Recorder up. See Figure 1.

27. Turn the Recorder up. See Figure 1.

28. Turn the Recorder up. See Figure 1.

29. Turn the Recorder up. See Figure 1.

30. Turn the Recorder up. See Figure 1.

31. Turn the Recorder up. See Figure 1.

32. Turn the Recorder up. See Figure 1.

33. Turn the Recorder up. See Figure 1.

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44. Turn the Recorder up. See Figure 1.

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46. Turn the Recorder up. See Figure 1.

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48. Turn the Recorder up. See Figure 1.

49. Turn the Recorder up. See Figure 1.

50. Turn the Recorder up. See Figure 1.

51. Turn the Recorder up. See Figure 1.

52. Turn the Recorder up. See Figure 1.

53. Turn the Recorder up. See Figure 1.

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55. Turn the Recorder up. See Figure 1.

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60. Turn the Recorder up. See Figure 1.

61. Turn the Recorder up. See Figure 1.

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63. Turn the Recorder up. See Figure 1.

64. Turn the Recorder up. See Figure 1.

65. Turn the Recorder up. See Figure 1.

66. Turn the Recorder up. See Figure 1.

67. Turn the Recorder up. See Figure 1.

68. Turn the Recorder up. See Figure 1.

69. Turn the Recorder up. See Figure 1.

70. Turn the Recorder up. See Figure 1.

71. Turn the Recorder up. See Figure 1.

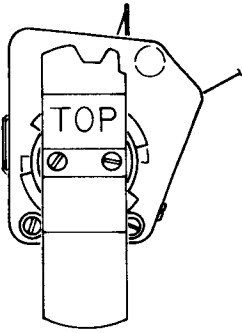
72. Turn the Recorder up. See Figure 1.

73. Turn the Recorder up. See Figure 1.

74. Turn the Recorder up. See Figure 1.

75. Turn the Recorder up. See Figure 1.

76. Turn the Recorder up. See Figure 1.



RECORDER MECHANISM ASSEMBLY 5569-007

PRICE SETTING INSTRUCTION LABEL 5569-003

INSERT EXACT AMOUNT OF QUARTERS, DIMES, NICKELS
FOUR QUARTERS MUST BE INSERTED FIRST

DISPLAY INSTRUCTION LABEL 5569-011

ACMR 160 5569 002
SEE SPECIAL PRICE SETTING INSTRUCTIONS

ACMR 160 LABEL 5569-002

DO NOT SET INSIDE (LOW) PRICE DISK ABOVE 60¢
PRINTED IN U.S.A. 5560-262

LOW PRICE INFORMATION LABEL 5560-262



NO. 6-32 x 5/16 TRUSSHEAD SLOTTED MACHINE SCREW W/LOCKWASHER 9900-151



NO. 6-32 x 3/8 FLATHEAD SLOTTED MACHINE SCREW W/LOCKWASHER 5560-107



.156 TYPE E RETAINING RING



.125 TYPE E RETAINING RING

FIGURE 1

6. Turn the Rear Plate Assembly of the Coin Mechanism up.
 7. Remove the No.6-32 x 3/8" Flat Head Screw/Lockwasher and the three No.6-32 x 5/16" Truss Head Screws/Lockwasher which attach the Recorder Mechanism Assembly. See Figure 4.
 8. Turn the open face of the Coin Mechanism up.
 9. Carefully remove the Release Actuating Arm Spring from the Stud to which the Spring is attached. See Figure 5.
 10. Remove the Retaining Ring which attaches the Front Latch, Center Latch, and Rear Latch Release Assemblies to the pivot stud.
- NOTE**
1. If the end of the Latch Release Assemblies in the Coin Mechanism match the ends of the Latches shown in View "B" of Figure 3 and after the required parts are received, follow steps 11 through 14, skip steps 15 through 19, follow steps 20 through 41, skip steps 42 through 45, and follow steps 46 through 76.
 2. If the ends of the Latch Release Assemblies match the Latches in View "A" of Figure 3, skip steps 11 through 14 and follow steps 15 through 30, skip steps 31 through 41 and follow steps 42 through 76. Heed the Note given prior to step 46.
 11. Remove from the 3 Latch Release Assemblies the 3 springs which are attached to the Latch Release Assemblies and the Release Actuating Arm Assembly. See Figure 6.
 12. Remove the 3 Retaining Rings which attach the 3 Rod Release Washers and the 3 Latch Release Assemblies to their respective Coin Mechanism Wire Forms.
 13. Remove the 3 Rod Release Washers and 3 Latch Release Assemblies from the Coin Mechanism.
 14. Skip steps 15 through 19 only if Note 1 instructions are being followed.
 15. Raise the bottom end (the end into which the Release Assemblies fit) of the Recorder Assembly and at the same time move it as far to the top and side of the Coin Mechanism as possible.

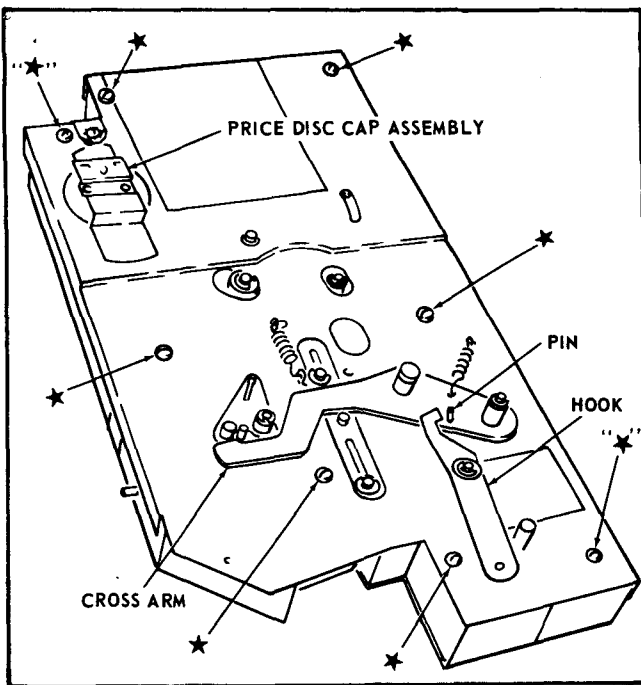


FIGURE 2

CAUTION

DO NOT force the Recorder Assembly up. Only lift the Assembly as high as it will go without any danger of distorting or bending the Latch Release Assemblies.

16. Grasp the Front Latch Release Assembly at the pivot point with one hand and at the unattached end with the other hand, and carefully lift the Assembly out of the Recorder Assembly and off the pivot stud. See Figure 7.

CAUTION

DO NOT distort or bend the Latch Release Assembly.

17. Repeat step 16 for the Center Latch Release Assembly.
18. Repeat step 16 for the Rear Latch Release Assembly.
19. Carefully rotate all of the Latch Release Assemblies to a position over the Release Actuating Arm Assembly. See Figure 7.

CAUTION

DO NOT distort or bend the Latch Release Assembly.

20. Remove the Retaining Ring which attaches the Release Bar Roller and Release Bar Assembly to the upper mounting stud. See Figure 8.
21. Remove the Roller and the Release Bar Assembly from the mounting stud.

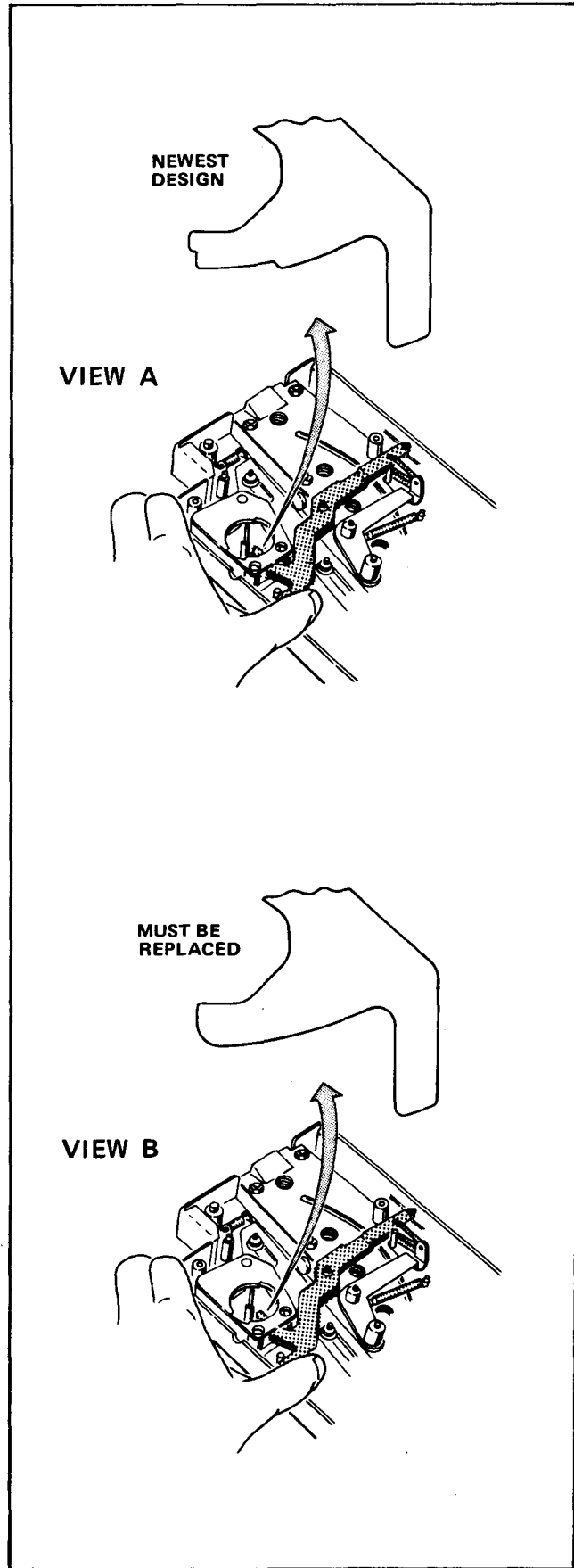


FIGURE 3

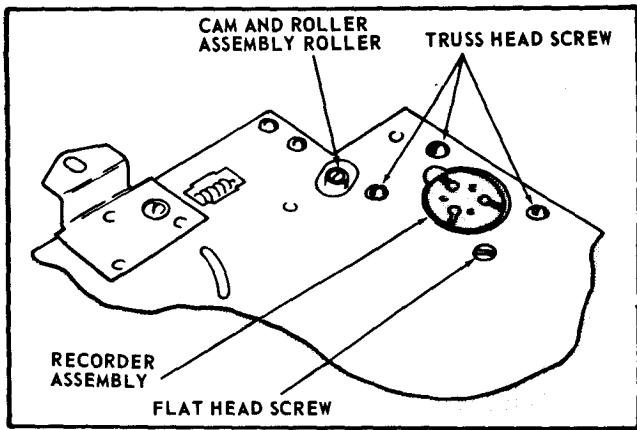


FIGURE 4

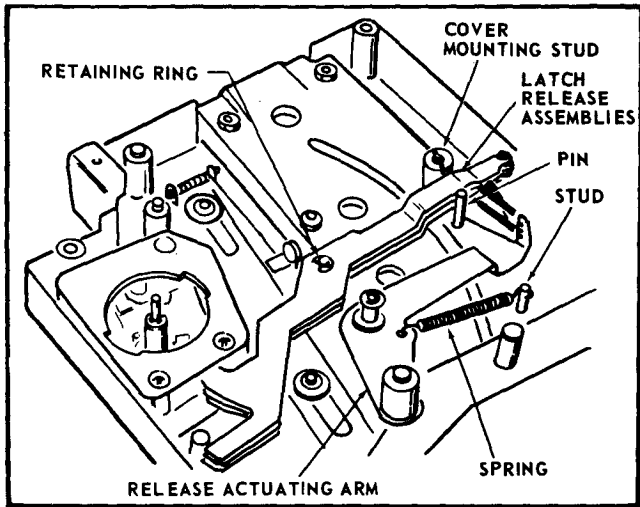
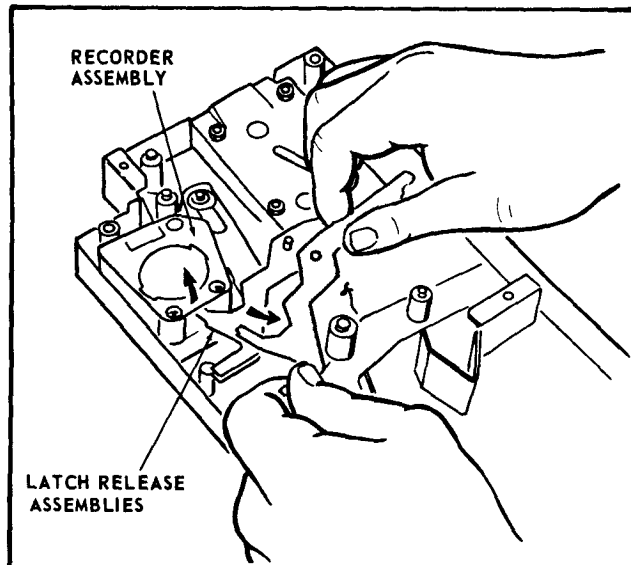


FIGURE 5

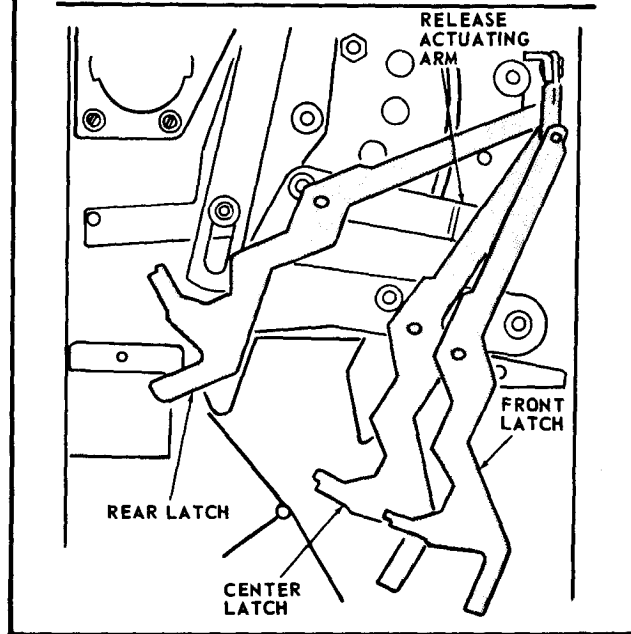


FIGURE 7

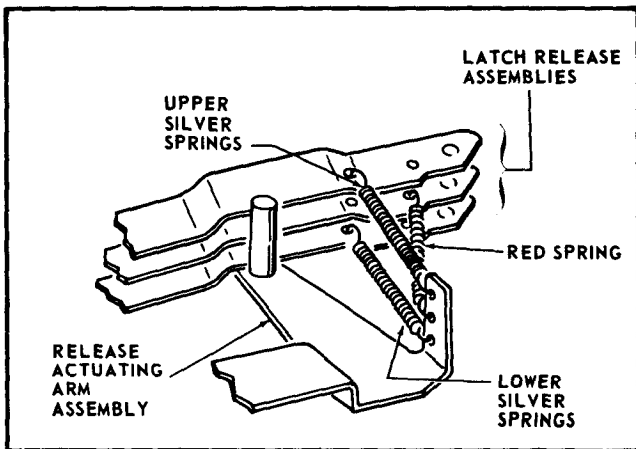


FIGURE 6

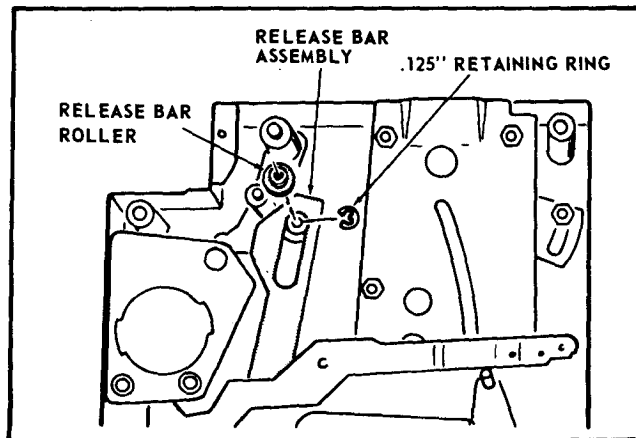


FIGURE 8

22. Rotate the top of the Recorder Assembly out of the Coin Mechanism to free the Recorder Feeler Wire from the Slot in the Coin Chute Assembly. Hold the Recorder Assembly in the position which will keep the Feeler Wire flat against the Rear Plate Assembly and remove the Recorder Assembly from the Mechanism.
23. Move the copper colored roller on the Release Arm Cam Assembly against the Coin Mechanism sidewall. See Figure 9.

NOTE

If the Ratchet Reset Cam and Roller Assembly is worn, install a replacement Ratchet Reset Cam and Roller Assembly, part number 5560-126, before performing step 24.

24. Install the Release Bar Assembly on the stud from which the Bar was removed in step 21.
25. Install the Roller, removed in step 21, on the stud. The larger diameter face of the Roller is to be down, toward the Bar Assembly. See Figure 8.
26. Attach the Roller and the Release Bar Assembly with the .125" diameter Retaining Ring removed in step 20, or with the Retaining Ring (silver), part number 9900-412, included in the Kit.
27. Move the Release Arm Cam Assembly into a position in which the copper colored roller on the Assembly touches the extension on the Ratchet Reset Cam and Roller Assembly. (Operating position shown in Figure 9.)
28. Remove the Price Disc Cap Assembly and Price Disc Assembly from the replacement Recorder Mechanism Assembly, part number, 5569-007, included in the Kit.

29. Hold the replacement Recorder Assembly so the "L" shaped extension on the Recorder Feeler Wire will be parallel to the Rear Plate Assembly of the Coin Mechanism and so the end of the "L" points toward the bottom of the Coin Mechanism. Slide the Feeler Wire flat against the Rear Plate Assembly and Under the Coin Plate Assembly.

NOTE

Be sure the Feeler Wire is under the Damper Wire Assembly and that the Brass Roller on the Release Arm Cam Assembly is against the Cam and Roller Assembly.

30. When the "L" shaped extension on the Feeler Wire is in line with the slot in the Coin Plate Assembly, rotate the Recorder Assembly into position in the Coin Mechanism. See Figure 10.

NOTE

If the Latch Release Assemblies in the Coin Mechanism are being replaced, follow steps 31 through 41, skip steps 42 through 45, and follow steps 46 through 76. Heed the Note given prior to step 46.

31. Install the Rear Latch Release Assembly, part number 5560-042, on the pivot stud. Place the end of the Latch Release in the lower slot in the sheet metal flange in the bottom end of the Recorder Assembly. Insert the pivot pin on the Latch Release Assembly into the loop in the Wire Form which is toward the bottom of the Coin Mechanism. Be sure the Latch Release Assembly is between the Cover Assembly Mounting Stud and the Pin at the end of the Release Actuating Arm Assembly. See Figure 11 View "A" and Figure 12.
32. Install one of the Rod Release Washers, part number 5560-114, on the pivot pin and attach the Washer and Latch Release Assembly to the Wire Form with one of the Retaining Rings, part number 9900-415, included in the Kit.

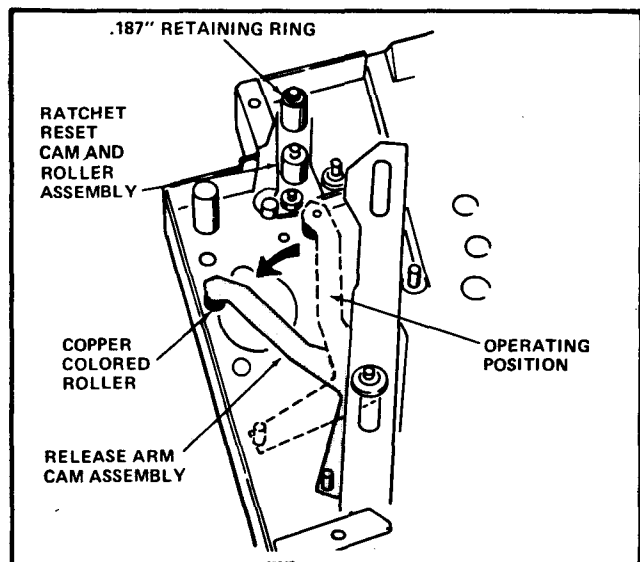


FIGURE 9

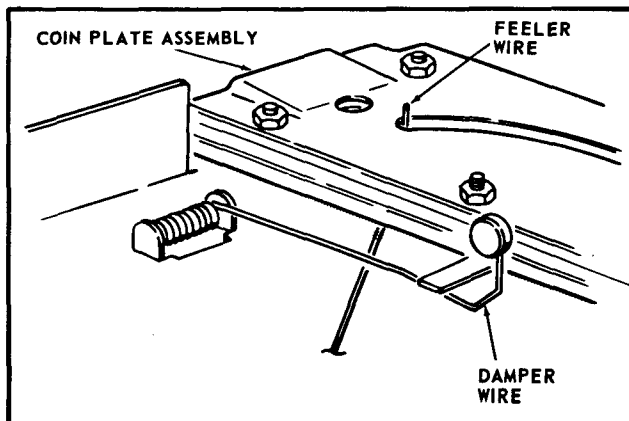


FIGURE 10

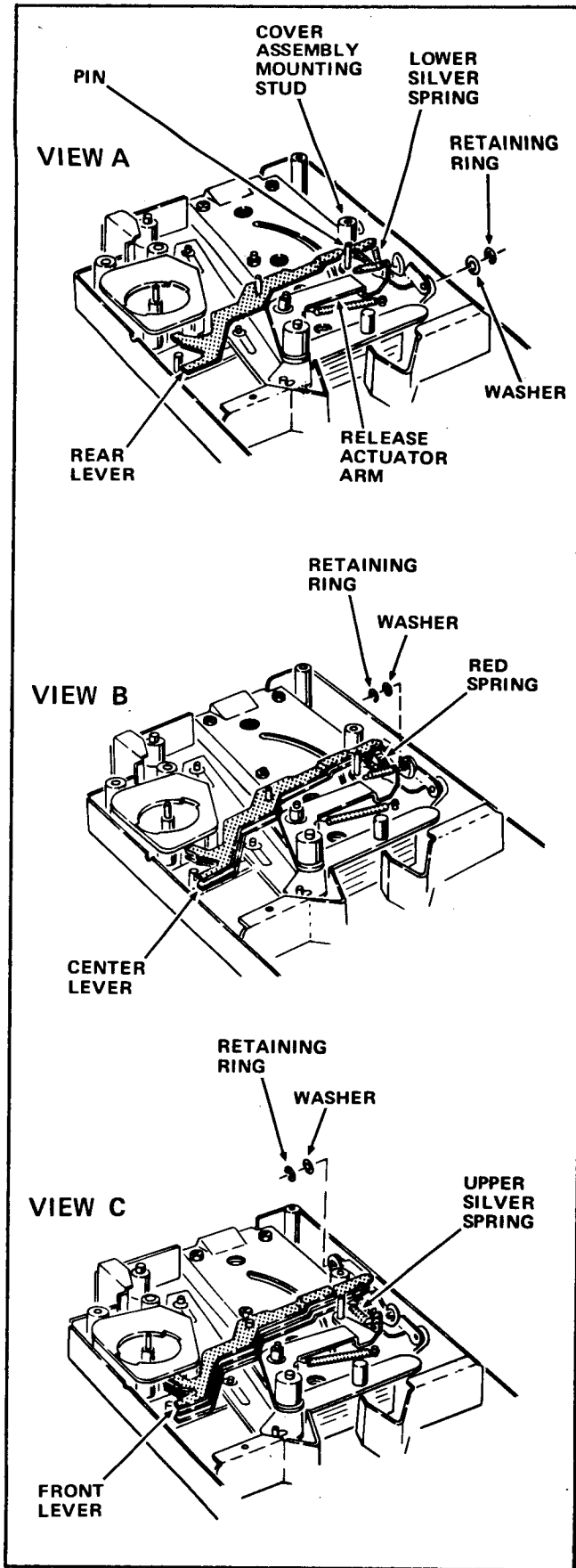


FIGURE 11

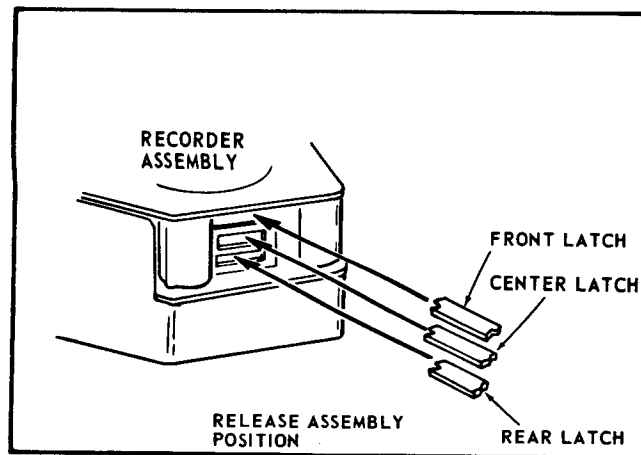


FIGURE 12

33. Attach the lower Spring on the Release Actuating Arm Assembly (removed in step 11) in the hole closest to the pivot stud hole in the Rear Latch Release Assembly.
34. Install the Center Latch Release Assembly, part number 5560-043 on the pivot stud. Place the end of the Latch Release in the upper slot in the sheet metal flange on the Recorder Assembly. Insert the pivot pin on the Latch Release Assembly into the loop in the center Wire Form. See Figure 11 View "B" and Figure 12.
35. Install a Rod Release Washer on the pivot pin and attach the Washer and Latch Release Assembly to the Wire Form with a Retaining Ring.
36. Attach the center (red) Spring in the hole farthest from the pivot stud hole in the Center Latch Release Assembly.
37. Install the Front Latch Release Assembly, part number 5560-044 on the pivot stud. Place the end of the Latch Release in the space above the metal flange on the Recorder Assembly. Insert the pivot pin on the Latch Release Assembly into the loop in the upper Wire Form. See Figure 11 View "C" and Figure 12.
38. Install the remaining Rod Release Washer on the pivot pin and attach the Washer and Latch Release Assembly to the Wire Form with a Retaining Ring.
39. Attach the upper Spring in the hole that is closest to the pivot stud hole in the Front Latch Release Assembly.
40. Skip steps 42 through 45.
41. If Note 2 is being followed, skip steps 42 through 45 and follow steps 46 through 76. Heed the Note given prior to step 46.

42. For Note 1 follow steps 42 through 76. Heed the Note given prior to step 46.

NOTE

There are two slots in the sheet metal flange in the bottom end of the Recorder Assembly.

43. While the bottom end of the Recorder Assembly is raised, install the Rear Latch Release Assembly on the pivot stud and into the lower of the two slots referred to in the Note in step 42. See Figure 12.

NOTE

When performing steps 43, 44, and 45, be sure the Release Assemblies are between the Cover Assembly Mounting Stud and the pin at the end of the Release Actuating Arm Assembly. See Figure 11, view "A".

44. Install the Center Latch Release Assembly on the pivot stud and in the remaining slot referred to in the Note in step 42.
45. Install the Front latch Release Assembly on the pivot stud and in the space above the flange referred to in step 42.

NOTE

1. *Be sure the plastic tab which protrudes through the top of the Recorder Assembly is to the left side of the Ratchet Reset Cam and Roller Assembly and that the Ratchet Reset Cam and Roller Assembly can be easily actuated. See Figure 13.*

2. *Check the Springs at the end of the Release Assemblies: be sure each of the three Springs is attached to a different Release Arm Assembly and that each Spring is attached in the proper hole to the Release Actuating Arm Assembly. See Figure 13.*

46. Attach the Release Arm Assemblies with the .156" diameter Retaining Ring removed in step 10, or with the Retaining Ring (dark bronze), part number 9900-415, included in the kit.

47. Loosen but do not remove the Nut/Lockwasher which attaches the Trip Wire Adjustment Assembly. See Figure 14.

48. Move the Adjustment Assembly as far clockwise (toward bottom of Coin Mechanism) as the slot in the Assembly will permit.

49. Tighten the Nut/Lockwasher.

50. Install the Release Actuating Arm Spring which was removed in step 9.

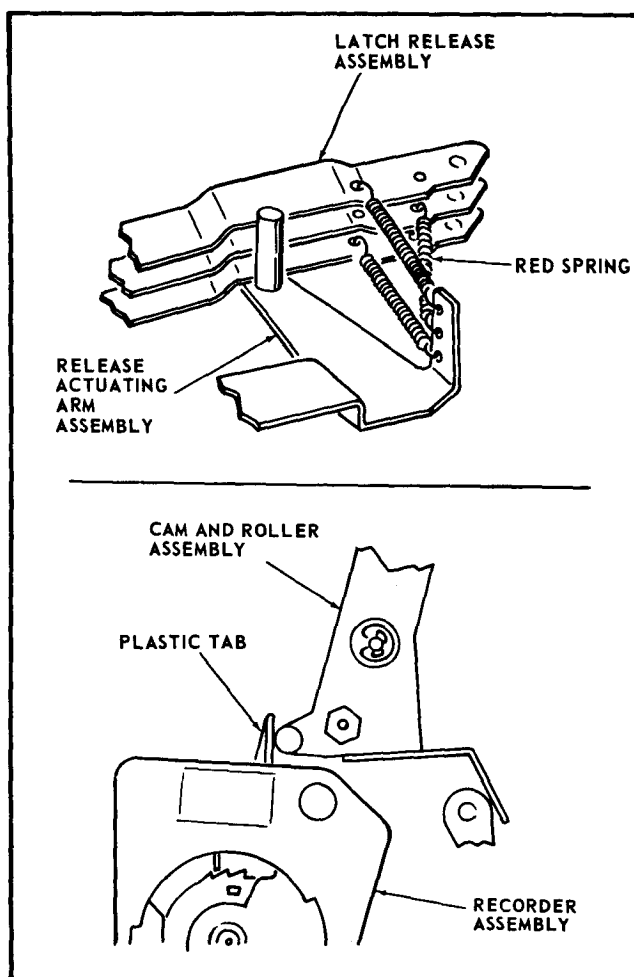


FIGURE 13

51. Install the Price Disc Cap Assembly on the replacement Recorder Assembly.
52. Turn the Coin Mechanism so it is resting on the sidewall opposite the Recorder Assembly.
53. Center the round portion of the Recorder Assembly in the hole in the Rear Plate Assembly. When properly installed the Recorder Assembly fits flush against the Rear Plate Assembly.
54. Install the No.6-32 x 3/8" Flat Head Screw/Lockwasher and the three No.6-32 x 5/16" Truss Head Screws/Lockwasher removed in step 7, or the Flat Head Screw/Lockwasher, part number 5560-107 and Truss Head Screws/Lockwasher, part number 9900-151 included in the Kit. Be sure the Screws are tight. See Figure 4.
55. Move the Cam and Roller and Assembly Roller, which fits through slotted hole in the rear Plate Assembly, to reset the Recorder Assembly. See Figure 4.
56. Remove the Price Disc Cap Assembly installed in step 51.

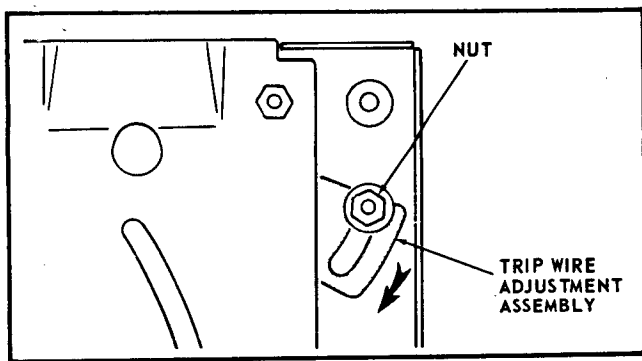


FIGURE 14

57. Hold the Coin Mechanism in the in-cabinet position (Coin Doors toward Bottom) and deposit one quarter in the front slot in the Coin Plate Assembly. The red plastic rotating ratchet in the recorder has teeth around the outer edge, the quarter should rotate the ratchet three teeth. See Figure 15.
58. Insert a second quarter. The second quarter should rotate the ratchet one tooth.
59. Insert a third quarter. The third quarter should rotate the ratchet one tooth.
60. Insert a fourth quarter. The fourth quarter should rotate the ratchet three teeth.
61. Insert one nickel; the ratchet should rotate one tooth.
62. Insert one dime; the ratchet should rotate two teeth.
63. Repeat step 55.
64. Install the Coin Mechanism Cover Assembly.

NOTE

Before Replacing Cover Assembly, pull the Cross Arm down and engage the Cross Arm Pin under the Hook on the Cover. See Figure 2.

65. Install one of the No.6-32 x 1/4" Self-tapping Pan Head Screws, removed in step 4 in the upper left hand corner of the cover (above the Recorder Assembly) and one of the Screws in the lower right hand corner of the Cover. See Figure 2. Screws indicated by an "*".
66. Release the Cross Arm on the Cover Assembly.
67. Attach the Cover Assembly with the remaining six No.6-32 x 1/4" Self-tapping Pan Head Screws removed in step 4.

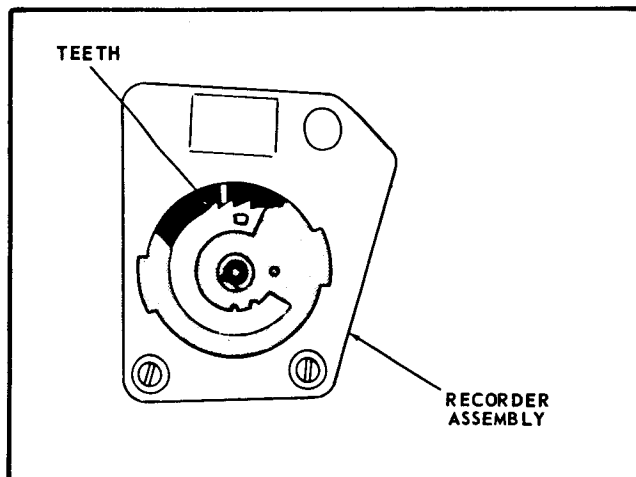


FIGURE 15

68. Remove the protective backing from the Low Price Information Label, part number 5560-262, included in the Kit, and attach the Label to the ACMR'
69. Remove the protective backing from the ACMR Series 160 Label, part number 5569-002, and attach the Label under the large yellow Serial Number Label on the Cover Assembly or over the ACMR Series 5100 or Series 100 Label on the Mechanism.
70. Remove the protective backing from the replacement Price Setting Instruction Label, part number 5569-003, included in the Kit, and attach the Label over the Price Setting Instruction Label in the Merchandiser.
71. Install the replacement Display Instruction Label included in the kit, part number 5569-011, on the Merchandiser. Place the Label over the existing coin insertion instructions on the Display Panel.
72. Install the Up-graded Coin Mechanism in the Merchandiser.
73. Set the replacement (red) Price Disc Assembly, which was removed from the replacement Recorder Mechanism Assembly in step 28, for the desired vending prices. See Price Setting Instruction Label, part number 5569-003.
74. Install the Price Disc Assembly and Price Disc Cap Assembly.
75. Adjust the Merchandiser Price Shaft Arms per Price Setting Instruction Label.
76. Thoroughly test vend the Merchandiser with and without merchandise, both with and without coin, to assure the proper operation of the Merchandiser before putting it back in service.