



INSTALLATION INSTRUCTIONS FOR INSTALLING A VEND MOTOR REPLACEMENT KIT IN A NATIONAL VENDORS® CROWN SEVENTY TWO®, EPM-72 ELECTRIC PASTRY MERCHANDISER AND ECM-72 ELECTRIC CANDY/CANDY SNACK MERCHANDISER

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.

These instructions cover the procedure for installing a Vend Motor Replacement Kit in a Crown Seventy Two, EPM-72 Electric Pastry Merchandiser and ECM-72 Electric Candy/Candy Snack Merchandiser.

Read these instructions carefully and thoroughly before installing the Kit. Retain these instructions for part number and installation information.

Kit, Part Number 130-6572, contains the following parts:

Part Number	Description	Quantity
130-6568	Vend Motor Assembly	1
130-6571	Installation Instructions	1
130-6573	Vend Motor Replacement	1
	packaged parts consist of:	
130-6541	Ratchet Pawl	1
130-6539	Upper Ratchet Bushing (Silver)	1
130-6547	Lower Ratchet Bushing (Gray)	1
9900-167	No.8-32 x 3/4 R.H.S. Screw	2
9900-072	No.8-32 Self Locking Nut	2
130-6540	Power Shaft Ratchet	1
9900-019	No.8-32 x 3/8 R.H.S. Screw	4
130-6570	Ratchet Pawl Spring	1

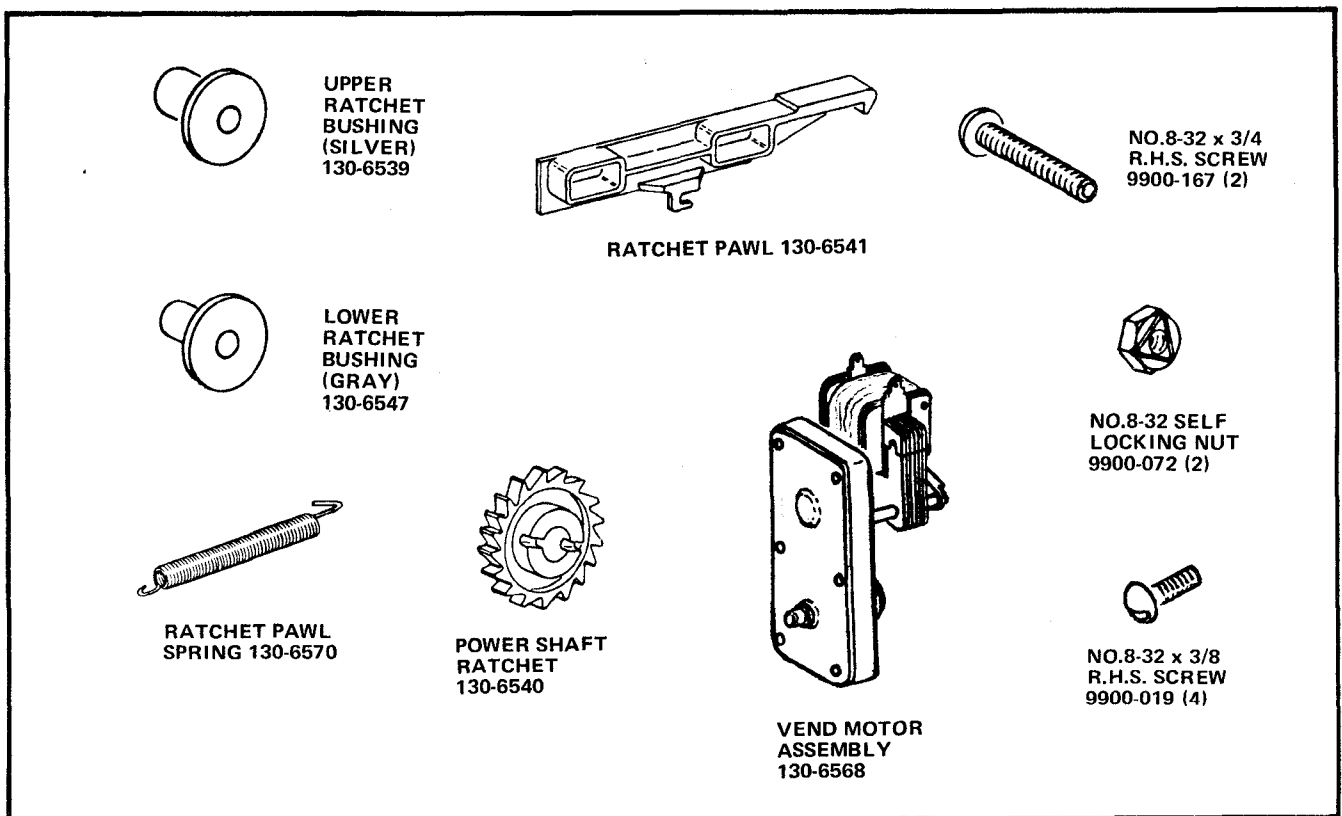


FIGURE 1

NOTE

1. After installing the Kit, the replacement Vend Motor can be easily identified by the white paint on the end of the Vend Motor Shaft.
2. The replacement Power Shaft Ratchet can be distinguished from the one that is to be removed by the curved radius in the bottom of the roll pin slot. The roll pin slot on the Power Shaft Ratchet, that is to be removed, has a square bottom. See Figure 6 and Figure 7.
3. The replacement Ratchet Pawl can be distinguished from the one that is to be removed by the raised surface at the end of one side of the Ratchet Pawl as shown in Figure 7.
4. The blue Ratchet Pawl Spring, included in the Kit, must be used in conjunction with the replacement Vend Motor Assembly.

TO INSTALL THE KIT

A. PARTS REMOVAL

1. Remove the Gear Train Assembly from the Merchandiser.

- a. Unplug the Merchandiser Service Cord from the Wall Receptacle.

CAUTION

To prevent the Merchandiser from toppling over when the Cabinet Door is opened and the Delivery Mechanism rotated out, ensure that the Door Support Leg is extended and secured.

- b. Unlock and open the Cabinet Door.
- c. Rotate the Delivery Mechanism from the Cabinet.
- d. Disconnect the Gear Train Harness Plug from its receptacle. See Figure 2.

WARNING

Spring tension must be overcome to rotate the Detent Retractor. Always handle the Retractor firmly to avoid becoming pinched when the Retractor Locks into position.

- e. Grasp the Detent Retractor and rotate the Retractor upward until the Retractor locks into position horizontally. See Figure 3.

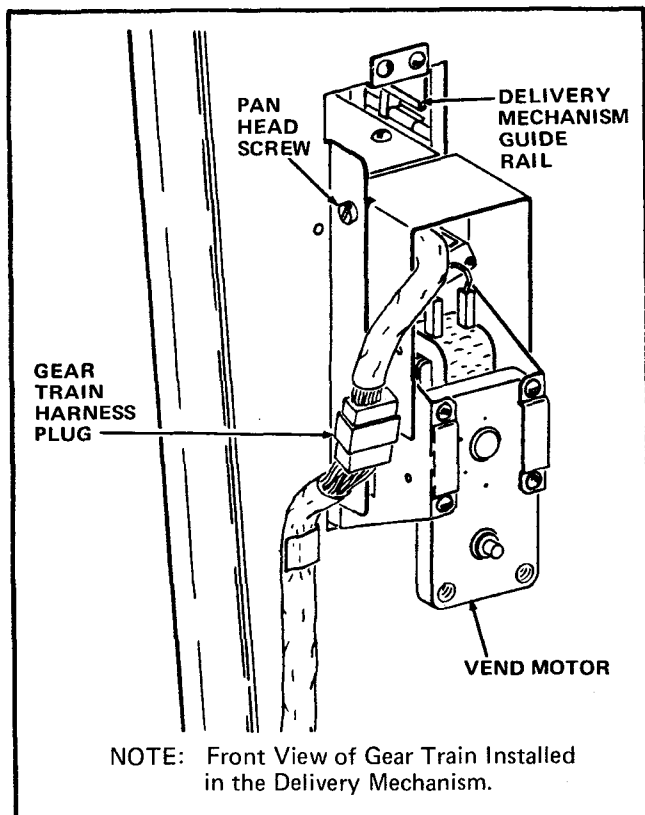


FIGURE 2

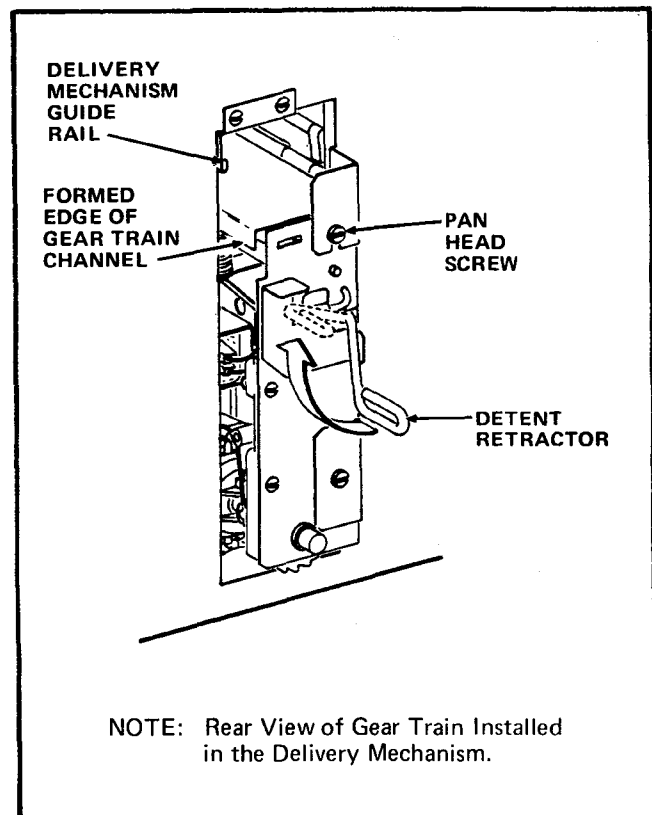


FIGURE 3

- f. Remove the four Pan Head Screws that secure the Gear Train Assembly to the Delivery Mechanism.

NOTE

There are two Screws at each end of the Gear Train Assembly.

- g. Carefully raise the Gear Train by grasping both ends and position the Formed Edge of the Gear Train Channel into the Delivery Mechanism Guide Rail. See Figures 2 and 3.
- h. Remove the Gear Train by sliding the Gear Train from the Delivery Mechanism, Harness End first, on the Delivery Mechanism Guide Rail.

NOTE

To facilitate removal while suspended on the Guide Rail, the Gear Train should be pivoted toward the hinged side of the Delivery Mechanism. The Gear Train Pinion Gears are then free from the Delivery Tray Chain.

- i. Place the Gear Train Assembly on a flat surface.

2. Remove the Vend Motor from the Gear Train Assembly. See Figure 4.

- a. Disconnect the two wires from the Vend Motor.
- b. Disengage the Wire Clamp from the Switch Cover by removing a No.8-32 Nut and Screw.
- c. Remove three Screws and the Switch Cover from the Vend Motor Assembly.
- d. Separate the Vend Motor Assembly from the Gear Train Channel by removing the four No.8-32 Screws.
- e. Disengage the Motor Mounts from the Vend Motor by removing the four No.8-32 Screws.

3. Remove the Power Shaft Assembly from the Gear Train Assembly.

- a. If the Power Shaft Assembly has a Roll Pin in the Shaft end, remove the Roll Pin, Washer and White Bearing. See Figure 5. If the Power Shaft Assembly does not have the Roll Pin as indicated, skip to Step A-3b.

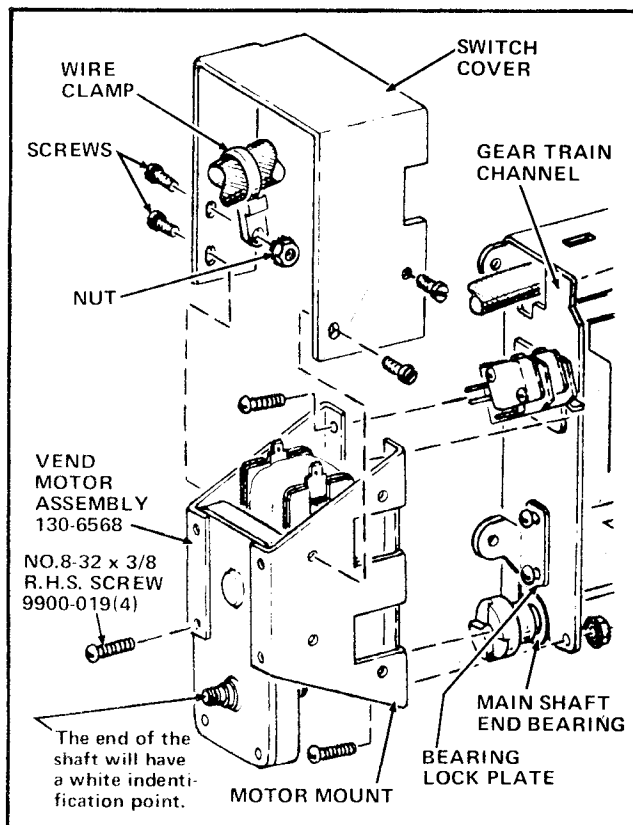


FIGURE 4

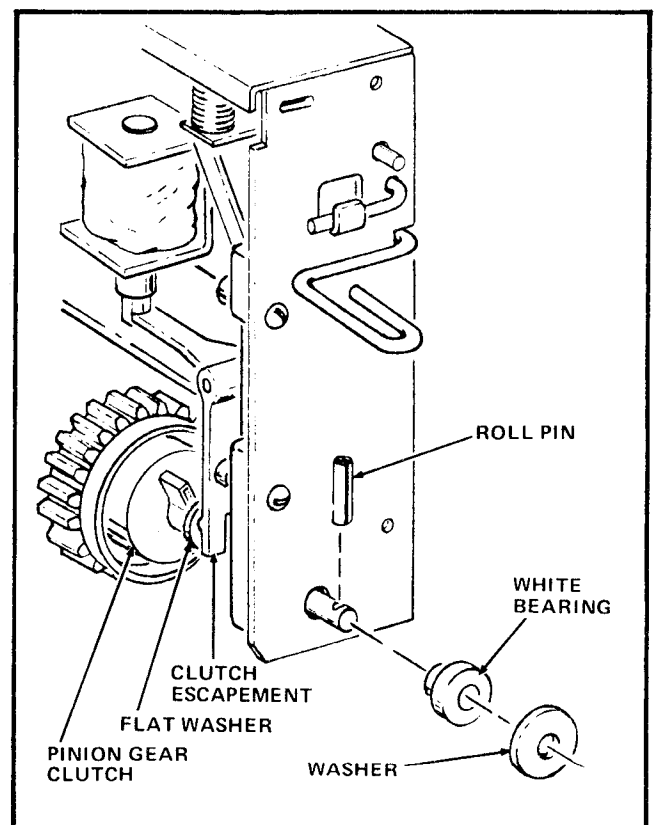


FIGURE 5

- b. Loosen two screws and rotate Bearing Lock Plate to free power shaft for removal. See Figure 4.
 - c. Remove the Power Shaft Assembly from the Gear Train Assembly.
4. Remove the Black Bearing from the Power Shaft. See Figure 6. This Black Bearing is used on later model Merchandisers only.
 5. Remove the Power Shaft Ratchet from the Power Shaft. See Figure 6.
 6. Remove the Draw Bar Arm Spring from the Gear Train Assembly. See Figure 6.
 7. Remove two Screws, two Nuts, the Upper and Lower Ratchet Bushings and the Ratchet Pawl from the Gear Train Assembly. See Figure 6.
- B. INSTALLATION OF THE KIT**
1. Install the Ratchet Pawl, Part Number 130-6541, included in the Kit, on the Gear Train Channel using the Upper Ratchet Bushing, Part Number 130-6539, Lower Ratchet Bushing, Part Number 130-6547, two No.8-32 x 3/4 Round Head Screws, Part Number 9900-167 and two No.8-32 Self Locking Nuts, Part Number 9900-072, all included in the Kit. See Figure 7.
 2. Install the blue Ratchet Pawl Spring. Part Number 130-6570, included in the Kit. Extend the Spring from the loop on the Gear Train Channel to the Ratchet Pawl as shown in Figure 7.
 3. Install the Power Shaft Ratchet, Part Number 130-6540, included in the Kit, on the Power Shaft by fitting the Roll Pin on the Shaft in the Roll Pin Slot on the Ratchet. See Figure 7.
 4. On later model Merchandisers, install the Black Bearing, removed in Step A-4, on the Power Shaft. See Figure 7.
 5. Install the Power Shaft Assembly on the Gear Train Assembly.
 - a. Fit the Power Shaft Assembly in place on the Gear Train Assembly.
 - (1) The Flat Washers not secured by the roll pin on the Power Shaft must fit between the Clutch Escapement and the Pinion Gear Clutch. See Figure 5.
 - (2) The center Bracket on the Gear Train Channel must fit in the Power Shaft Support Bearing.

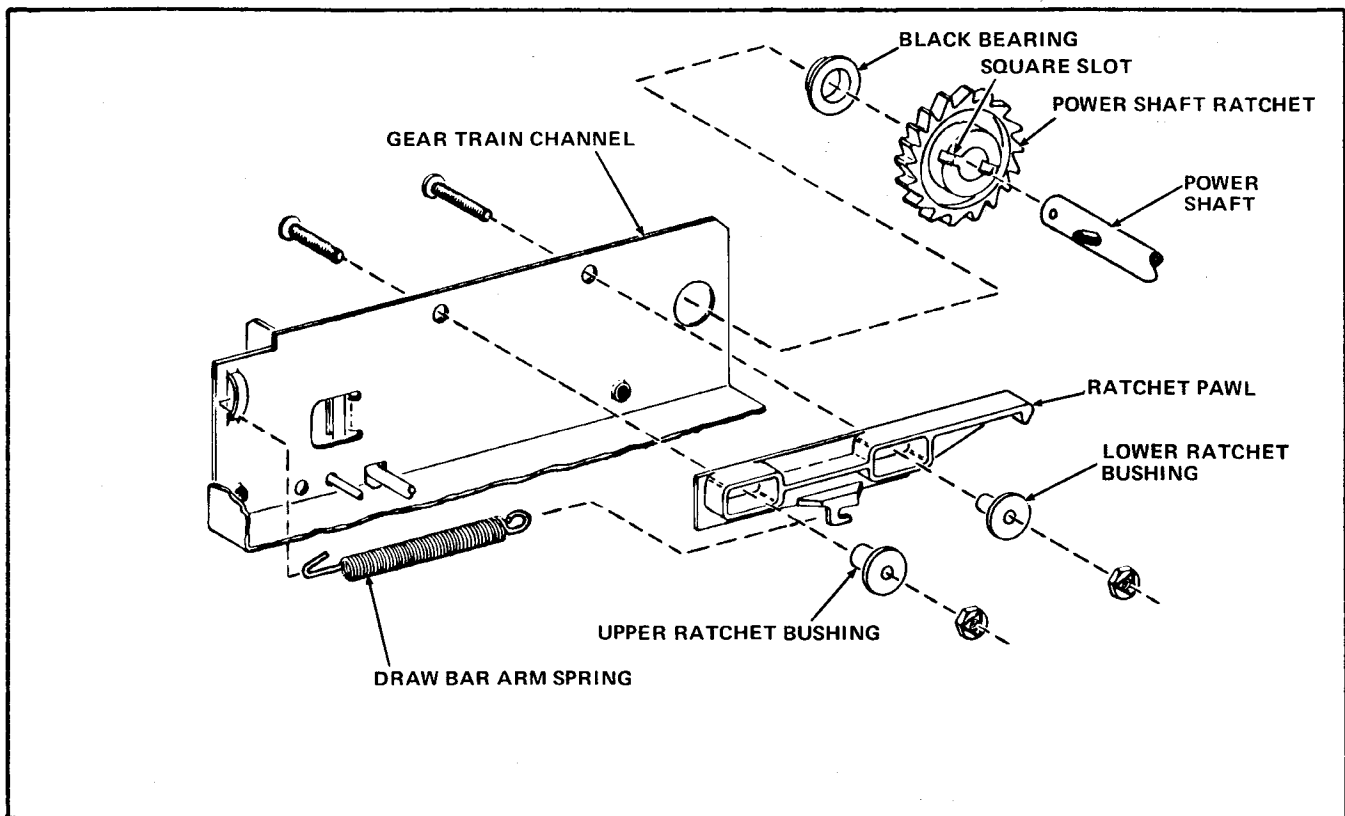


FIGURE 6

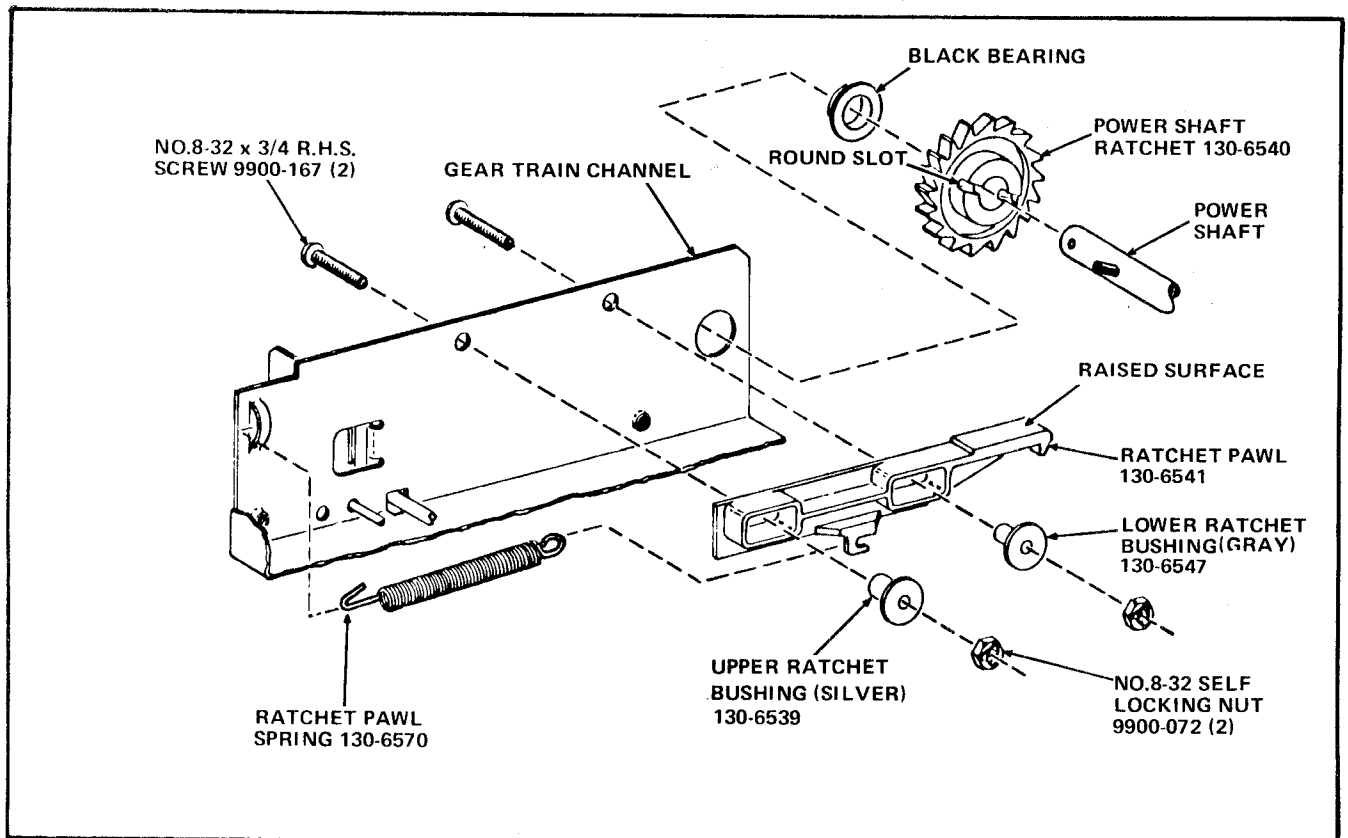


FIGURE 7

- (3) On later model Merchandisers the edge of the Gear Train Channel must fit in the slot of the Power Shaft End Bearing. See Figure 4.
- b. Secure power shaft in place by rotating Bearing Lock Plate and matching flat on power shaft bearing to Bearing Lock Plate. Tighten retaining screws on Bearing Lock Plate. See Figure 4.
- c. On early model Merchandisers, install the White Bearing, Washer and Roll Pin on the End of the Power Shaft. See Figure 5.
6. Install the Vend Motor Assembly, Part Number 130-6568, included in the Kit, on the Gear Train Assembly. See Figure 4.
 - a. Attach the two Motor Mounts to the Vend Motor using four Screws. The Motor Mounts and Screws were removed in Step A-2e.
 - b. Attach the Vend Motor Assembly to the Gear Train Channel using four No.8-32 x 3/8 Round Head Screws, Part Number 9900-019, included in the Kit.
 - c. Attach the two wires, disconnected in Step A-2a, to the Vend Motor.
 - d. Attach the Wire Clamp and Harness, disengaged in Step A-2b, to the Switch Cover using the Screw and Nut also removed in Step A-2b.
 - e. Attach the Switch Cover, removed in Step A-2c to the Vend Motor Assembly using the three Screws also removed in Step A-2c.
7. Install the Gear Train Assembly back in the Merchandiser.
 - a. Place the Gear Train Assembly on the Delivery Mechanism Guide Rail and slide the Gear Train Assembly in the Delivery Mechanism. See Figure 2.
 - b. Secure the Gear Train Assembly to the Delivery Mechanism using the four Screws removed in Step A-1f. Two Screws go at each end of the Gear Train Assembly.

WARNING

Always handle the Detent Retractor firmly to avoid becoming pinched when the Retractor snaps into position.

- c. Grasp the Detent Retractor and rotate the Retractor down to its vertical position.
- d. Connect the Gear Train Harness Plug to its receptacle. See Figure 2.
- e. Rotate the Delivery Mechanism back into the Cabinet.

- f. Connect the Merchandiser's electrical Service Cord to a properly polarized and grounded wall receptacle.

CAUTION

If the Vend Motor begins running, a Tray Chain is misaligned or the Detent Retractor has not been returned to its fully down position. Make sure the Retractor is down and, if necessary, move each Tray Chain up and down slightly until the misaligned Tray or Trays settles into its At Rest position.

- g. Close and lock the Cabinet Door.