



## KIT PART NUMBER 1482431

### INSTRUCTIONS FOR INSTALLING PILFERAGE DOOR REPLACEMENT DISKS

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING, CONTACT THE NATIONAL VENDORS PARTS DEPARTMENT 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	1472452	END DISK - PILFERAGE DOOR - L.H.	1
2	1472453	END DISK - PILFERAGE DOOR - R.H.	1
3	1472455	WASHER - SUPPORT	2
4	1472483	BUSHING - PIVOT	2
5	1472457	SCREW - 1/4-20 X 1.75 HEX BUTTON HD.	2
6	4041241	NUT - 1/4-20 SELF LOCKING	2
7	1472475	PLATE - STIFFENER	2
8	1482430	CHANNEL - DOOR STOP - SHORT	1
9	1472431	RIVET "POP" .094 DIA - BLACK	8
10	1482423	PAD - PILFERAGE DOOR - SHORT	1
11	1472411	PINION GEAR	2
12	1482435	KIT INSTRUCTIONS	1

Required but not included in the kit:

1. Silicone compound for lubrication
2. Pop rivet tool
3. #39 (7/64) drill bit

#### NOTE

*This procedure is much easier to perform if you work with an assistant.*

1. Remove the gum and mint unit, if present. Remove the delivery pan assembly from the door.
2. Refer to figure 1 to verify that the timing is correct. All four timing marks (A, B, C, and D) must be in a straight line. Be sure to check both ends of the delivery door.

#### NOTE

*It is very important to ensure that the delivery pan door timing is correct prior to continuing. If it is not, the door stop channel will not be in the correct position once the timing is set upon reassembling the delivery pan.*

- a. If the timing is correct, continue with step 3.
- b. If the timing is **NOT** correct, complete the timing procedure given at the end of these instructions.

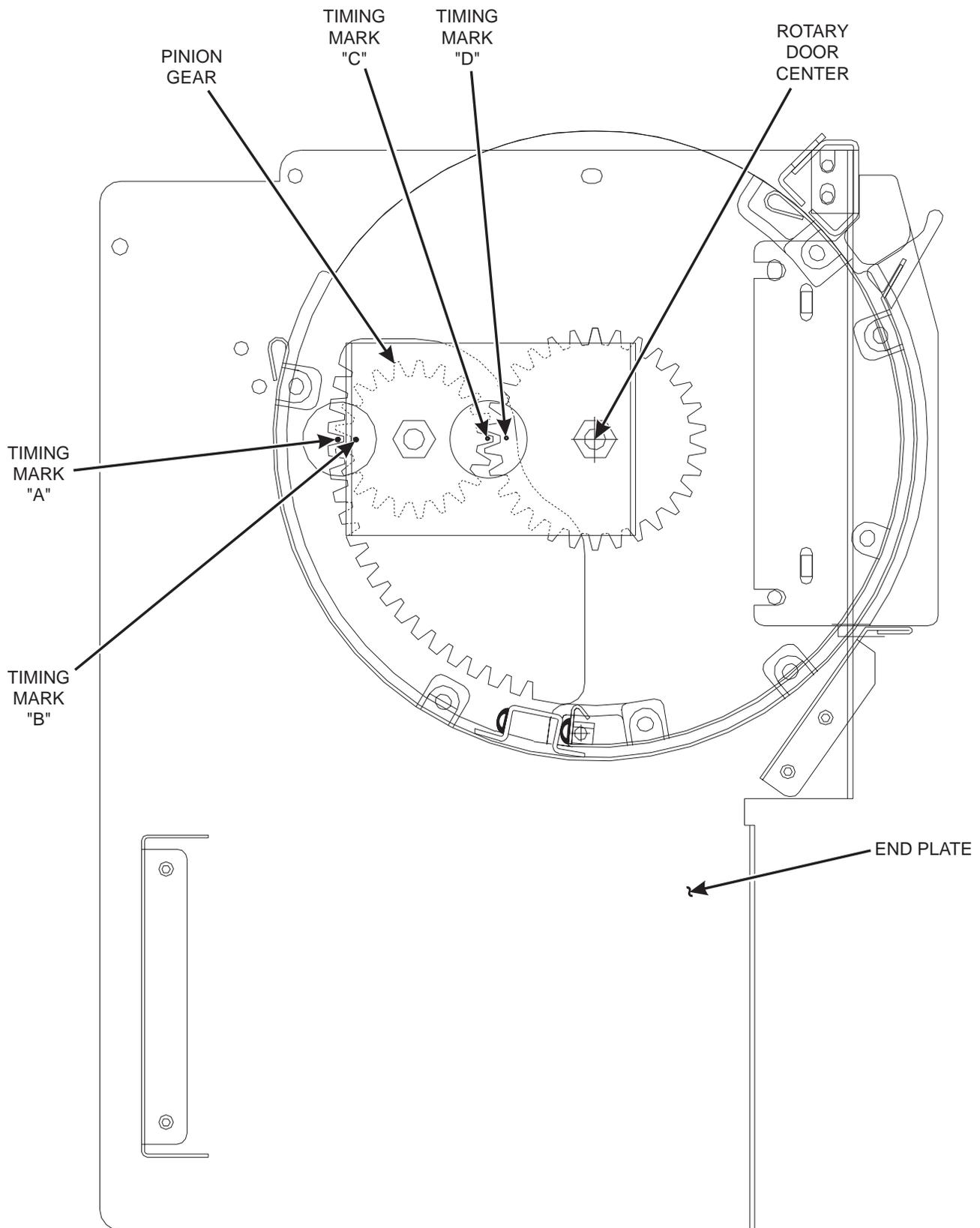


Figure 1



3. Hold the delivery door in the "home" position. This is done by pushing the handle of the delivery door up against the left and right fillers (see figure 2).

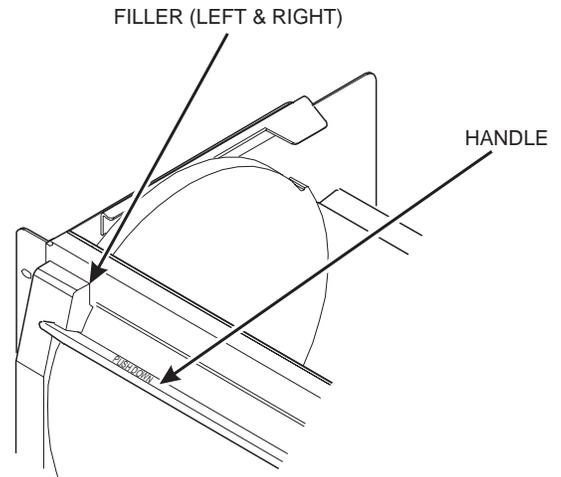


Figure 2

4. Place the door stop channel on the delivery door. Position the channel so it is centered left to right (see figures 3 and 4).

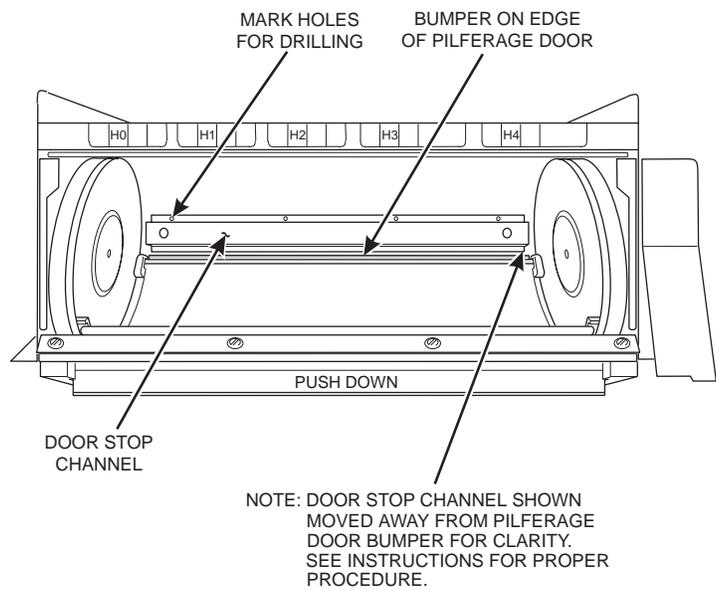


Figure 3

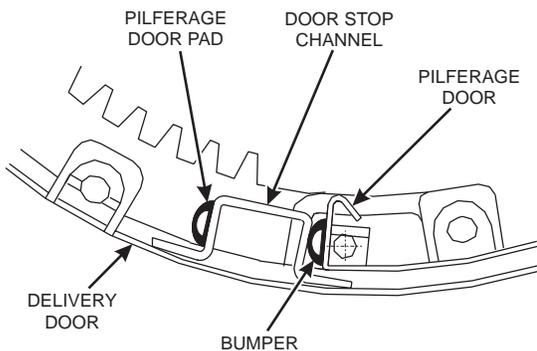


Figure 4



5. Continue holding the delivery door in the "home" position. Lightly press the channel against the bumper on the edge of the pilferage door.
6. Mark the position of the holes on one side of the channel for drilling.
7. Place the delivery pan assembly on its right end.
8. Remove the left end plate as follows:
  - a. Remove eight screws from the left end (see figure 1 for screw locations).
  - b. Using a 5/32 Allen key, remove screw and nut from large gear on both ends.
9. Unhook the spring on the left side of the delivery pan assembly.
10. Lift both cylinders from the right end plate.
11. Remove the left delivery door disk.
12. Slide out the pilferage door assembly.
13. Drill holes in the delivery door as previously marked. Use a #39 (7/64") drill.
14. Attach one side of the channel to the delivery door using pop rivets supplied in the kit. Install the rivets from the outside surface, so that the "rough" side of the rivet is next to the channel. **MAKE SURE THE UNRIVETED SIDE OF THE CHANNEL IS CLOSEST TO THE DELIVERY DOOR HANDLE.**
15. Drill holes for attaching the other side of the channel.
16. Attach the second side of the channel using pop rivets.
17. Mount the pilferage door pad on the channel.
18. Replace the existing pilferage door disks with the new disks. Refer to figure 5 for proper orientation.
19. Slide the pilferage door assembly into the delivery door assembly and stand it on its left end.
20. Lubricate both of the new pivot bushings with a silicone compound.
21. Remove the existing pivot bushings from the two end plates and discard.
22. Insert one of the pinion gear bushings into one of the new pinion gears. See figure 5 for proper orientation.
23. Starting on the right end of the combined delivery and pilferage door assemblies, align the timing marks "A" and "D". (See figure 1.)
24. Put the new pinion gear in position so timing marks "B" and "C" are in a straight line with timing marks "A" and "D". Hold all parts in this position while completing the next three steps.
25. Secure the right end plate and one of the stiffener plates to the pinion bushing using the existing nut.
26. Assemble one of the support washers and pivot bushings onto one of the 1.75" long screws.
27. Insert the end of this screw through the right pilferage door disk, the right delivery door disk, the right end plate, and the stiffener plate. Secure in place with one of the 1/4-20 self-locking nuts.
28. Flip the assembly over onto its right end. Place the remaining pinion gear and pinion gear bushing so that timing marks "A", "B", "C", and "D" are in a straight line. See figure 1.



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29. Secure the left end plate and the remaining stiffener plate to the pinion bushing.
  30. Assemble the remaining support washer and pivot bushing onto the remaining 1.75" long screw.
  31. Insert this screw through the left pilferage door disk, the left delivery door disk, the left end plate, and the stiffener plate. Secure in place with the remaining 1/4-20 nut.
  32. Verify that the timing is still correct. See figure 1.
  33. Replace the eight screws to secure the horizontal supports to the left end plate.
  34. Reconnect the spring.
  35. Return the delivery pan to the merchandiser.
  36. If the gum and mint unit was removed in step 1, reassemble it to the delivery pan.

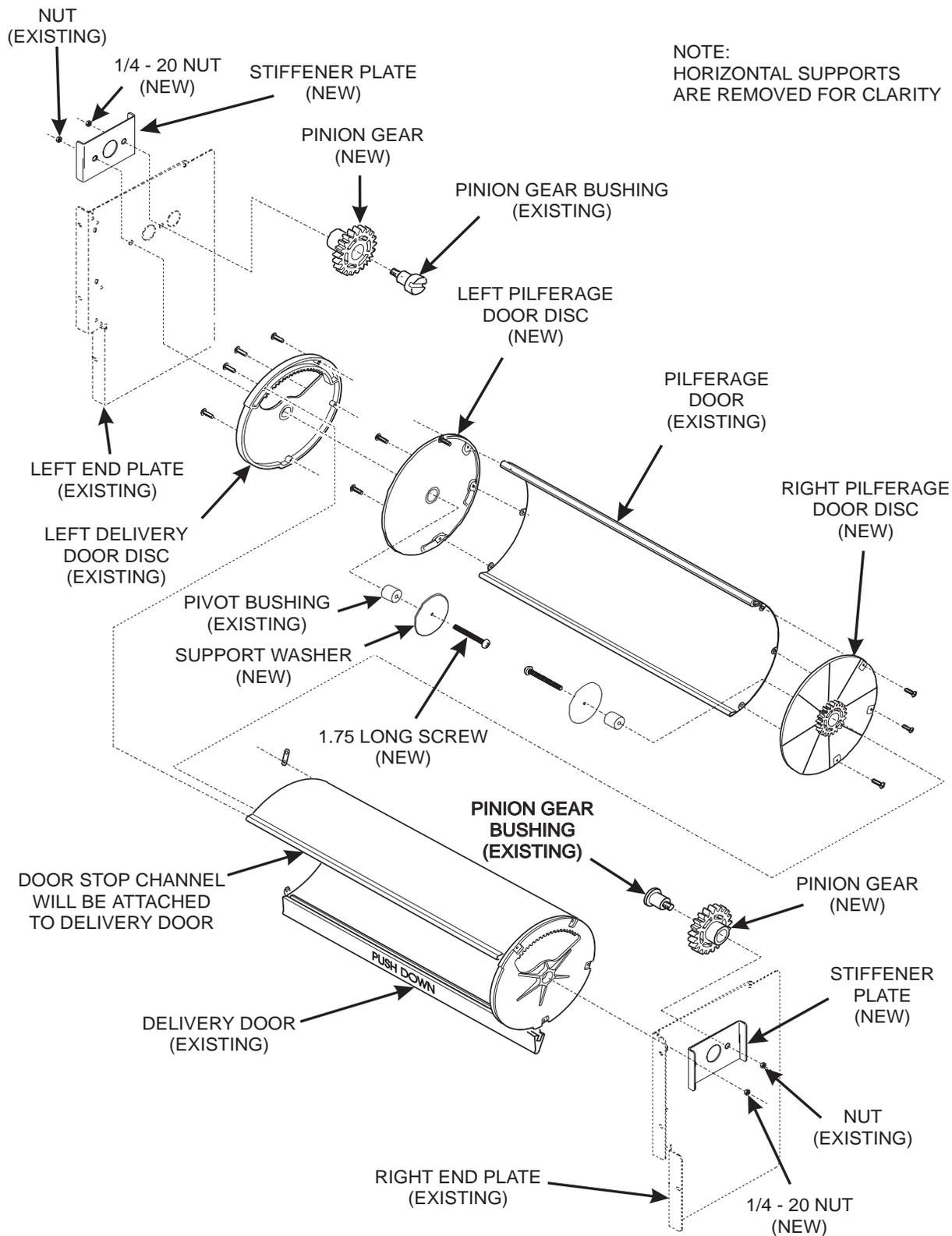


Figure 5



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## Timing Adjustment Procedure

Refer to figure 1.

1. Remove the right end plate.
2. Rotate the delivery door until timing marks "A" and "D" are in line with the rotary door center.
3. Remove the pinion gear bushing and nut.
4. Rotate the pinion gear until timing marks "B" and "C" are in line with timing marks "A" and "D".
5. Reinstall the pinon gear bushing and nut.
6. Reinstall the right end plate.
7. Repeat steps 1 through 6 for the left end.
8. Verify that the timing is still correct.