

# Technical Bulletin

Bulletin Number: 456 Revision Number: R-12

Release Date: November 19, 1992 Revision Date: April 27, 1998

**SUBJECT: MISCELLANEOUS WORLDWIDE RETURNABLE BOTTLE SHIMMING IN SHIMLESS STACK SERIES 90 VENDERS**

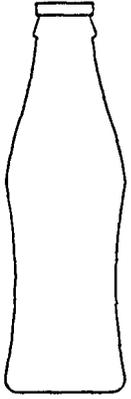
**MODELS AFFECTED: All Shimless Stack Series 90 Venders.**

**REASON: To provide the shimming and set-up of various returnable bottles used Worldwide.**

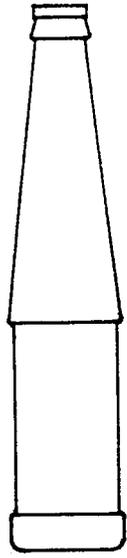
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# PACKAGE SHAPES



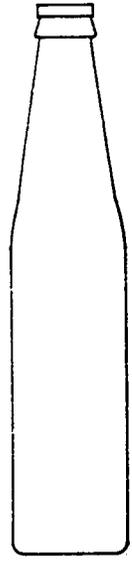
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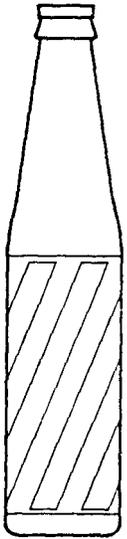
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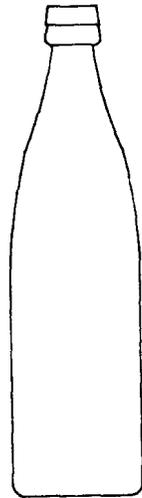
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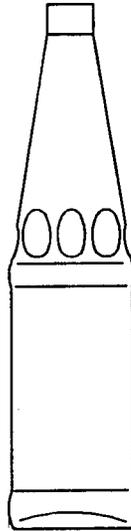
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6



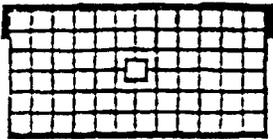
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# PACKAGE DIMENSIONS

Description	Package Size	Country/ Township	Shape	Height Inches (mm)		Diameter Inches (mm)	
Coca-Cola "Contour"	200 ml	Belgium	1	7.71"	(195.8)	2.33"	(59.2)
Mineral Water	200 ml	Denmark	3	7.86"	(199.6)	2.32"	(58.9)
Coca-Cola "Contour"	250 ml	Denmark	1	8.72"	(221.5)	2.31"	(58.7)
Fanta	250 ml	Denmark	2	8.69"	(220.7)	2.34"	(59.4)
Pepsi "Swirl"	250 ml	Denmark	5	8.71"	(221.2)	2.31"	(58.7)
Sprite	250 ml	Denmark	2	8.77"	(222.7)	2.33"	(59.2)
Beer	330 ml	Denmark	3	8.98"	(228.1)	2.48"	(63)
Pepsi "Swirl"	500 ml	Denmark	5	11.4"	(289.6)	2.61"	(66.3)
Water	330 ml	Finland	6	7.45"	(189.2)	2.53"	(64.3)
Coca-Cola "Contour"	350 ml	Finland	1	9.65"	(245.1)	2.57"	(65.3)
Fanta	350 ml	Finland	2	9.54"	(242.3)	2.57"	(65.3)
Sprite	350 ml	Finland	7	9.54"	(242.3)	2.57"	(65.3)
Coca-Cola "Contour"	200 ml	Germany	1	7.71"	(195.8)	2.33"	(59.2)
Pepsi "Straight Wall"	200 ml	Germany	4	8.20"	(208.3)	2.24"	(56.9)
Green Water	.25 liter	Germany	3	8.43"	(214.1)	2.22"	(56.4)
Coca-Cola "Contour"	330 ml	Germany	1	9.62"	(244.3)	2.48"	(63)
Fanta	330 ml	Germany	7	9.54"	(242.3)	2.45"	(62.2)
Pepsi "Straight Wall"	330 ml	Germany	3	9.49"	(241)	2.43"	(61.7)
Pepsi "Swirl"	330 ml	Germany	5	9.30"	(236.2)	2.42"	(61.5)
Beer "New"	500 ml	Germany	6	10.24"	(260.1)	2.67"	(67.8)
Coca-Cola "Contour"	500 ml	Germany	1	11.10"	(281.9)	2.71"	(68.8)
Coca-Cola "Contour"	300 ml	Malta	1	9.62"	(244.3)	2.38"	(60.5)
Fanta	300 ml	Malta	4	9.65"	(245.1)	2.34"	(59.4)
Hapi	300 ml	Malta	4	9.49"	(241)	2.41"	(61.2)
Like	300 ml	Malta	6	9.47"	(240.5)	2.34"	(59.4)
Sprite	300 ml	Malta	4	9.67"	(245.6)	2.36"	(59.9)
Diet Coca-Cola	350 ml	Malta	2	10.6"	(269.2)	2.40"	(61)
Diet Sprite	350 ml	Malta	2	10.6"	(269.2)	2.40"	(61)
Coca-Cola "Contour"	350 ml	Norway	1	9.65"	(245.1)	2.57"	(65.3)
Pepsi "Swirl"	330 ml	Slovakia	6	9.23"	(234.4)	2.34"	(59.4)
Postobon	350 ml	South America	6	9.74"	(247.4)	2.31"	(58.7)
Coca-Cola "Contour"	180 ml	United Kingdom	1	7.375"	(187.3)	2.14"	(54.4)
Coca-Cola "Contour"	8 oz.	United States	1	7.56"	(192)	2.26"	(57.4)
Coca-Cola "Contour"	250 ml	Uruguay	1	7.46"	(189.5)	2.29"	(58.2)
Sprite	250 ml	Uruguay	1	7.41"	(188.2)	2.29"	(58.2)
Fanta	250 ml	Uruguay	4	7.40"	(188)	2.28"	(57.9)

1. Where the symbols \*, + and @ are used refer to the following:  
**(Use plastic tubes only where called out.)**
  - \* Where the symbol \* appears on the shim chart, place the 10-3/4" long (9/32"ID, 3/8"OD) yellow plastic tube over the rod.
  - + Where the symbol + appears on the shim chart, place the 10-3/4" long (9/32"ID, 7/16"OD) red plastic tube over the rod.
  - @ Where the symbol @ appears on the shim chart, place the 10-3/4" long (9/32"ID, 17/32"OD) white plastic tube over the rod.
  
2. Where REAR A/FRONT C appears on the shim chart, this means the rod is installed (spring end first) in hole "A" at the rear of the rotor and the front end of the same rod is installed in hole "C".

## PARTS ILLUSTRATIONS



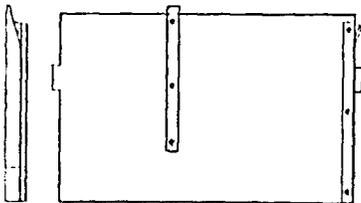
Black Shim  
801,804,96x.x1



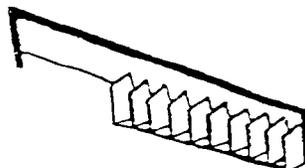
Metal Shim  
901,303,63x.x1



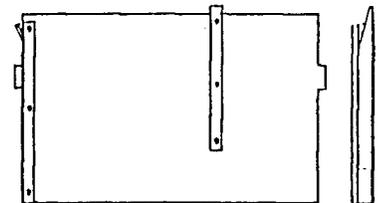
Gray Shim  
801,805,12x.x1



Right Bottle Shim  
443,010,70x.x3

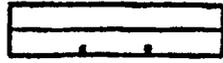


Bottle Shim (White Plastic)  
801,805,23x.x1



Left Bottle Shim  
443,010,60x.x3

## BOTTLE NECK STOP INSTALLATION:



Bottle Neck Stop  
432,010,76x.x3

### To Install:

1. Important: Used in Williston built Dixie-Narco venders serialized 0001-6000BO and higher.
2. Place the bottle neck stop on the back side of the can/bottle chute support.
3. Align the holes in the chute support and the bottle neck stop.
4. Secure with two (2) 900,301,65x.x1 Phil pan screws #8-18x½.
5. See figures 1 and 2 below.

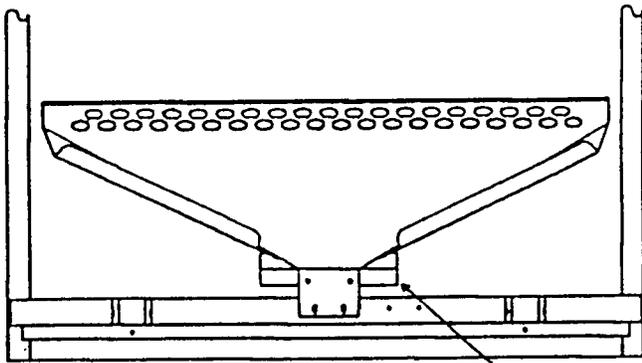


Figure 1

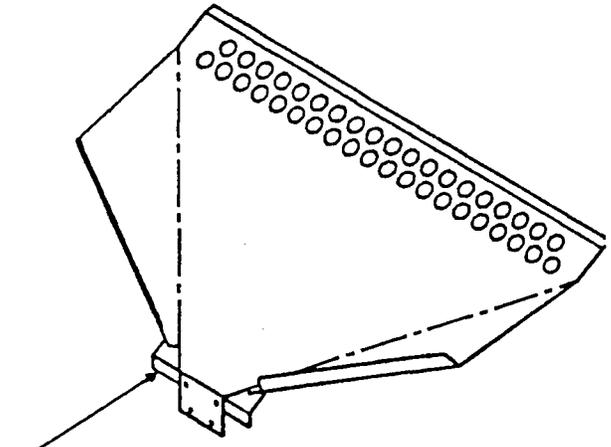
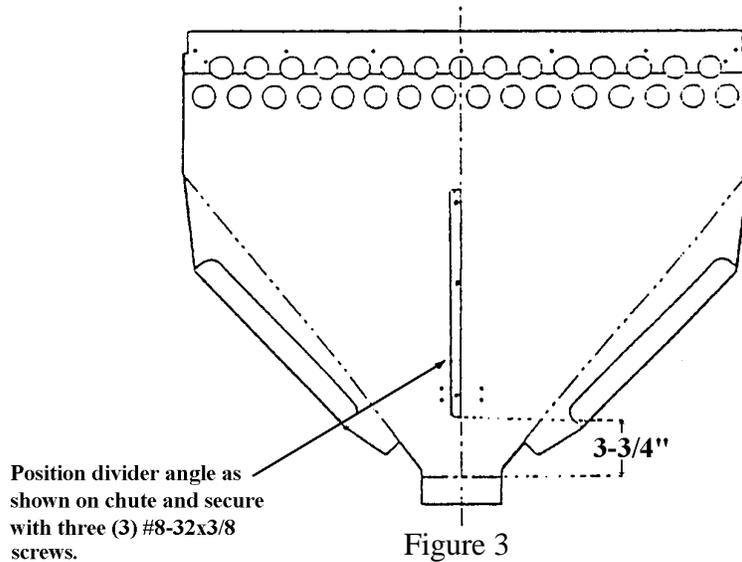


Figure 2

## DIVIDER ANGLE INSTALLATION:



## Extended Discharge Member Instructions:

1. Remove the nuts and bolts securing the discharge member to the delivery port.
2. Remove existing discharge member.
3. Install extended discharge member so holes B & D (see figure 4A or 4B) line up with the back holes in the delivery port (see figure 5).
4. Figure 5 shows what the set-up should now look like.
5. Secure with the nuts and bolts removed in step 1.

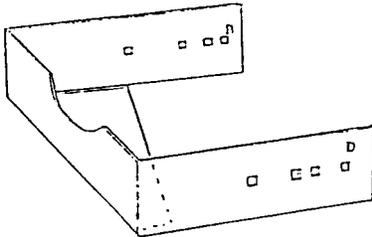


Figure 4A  
Extended Discharge Member Narrow  
493,051,10x.x4

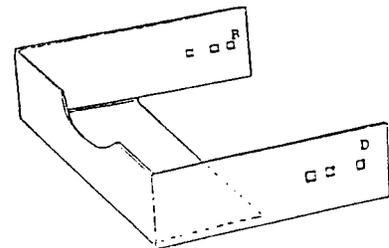


Figure 4B  
Extended Discharge Member Wide  
491,051,70x.x4 - for wide Coke Landscape, Pepsi Magnum Circular, &  
Generic Circular Venders  
491,051,90x.x4 - for All Full Length Sign Flat & Display Venders

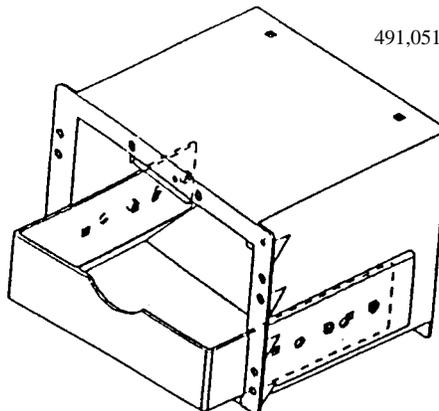


Figure 5

# INSTALLATION OF COLUMN WALL KIT:

## WIDE COLUMNS

1. Unplug the vender.
2. Move the rear spacers to the rear of each column.
3. Identify the right and left parts for proper placement.
  - A. See Figures 6 and 7 below for identification.

**Note: The dimension from the bottom of the part to the first clip is 6-1/8" (155.6mm) on a right side part and is shown to assist in part identification. The dimension on the left hand part from the bottom of the part to the first clip is 8-1/8" (206.4mm).**

4. Take the right kit and locate the "clips" which are welded to the back side of the part.
5. Place the right kit in the column so the "clips" are towards the right column wall.
6. Align the "clips" with the existing slots in the right stack wall.

Note: There are two (2) upper and two (2) lower slots in each stack wall.  
For the right kit use the lower slots at each location.
7. Push the wall in position to secure (clips in slots).
8. Install the left kit wall by repeating steps 4, 5, 6 and 7 using the upper slots at each location.
9. Set the rear spacer in the proper position.
10. Set the cams in the proper position.
11. Load the product and test for proper vending.

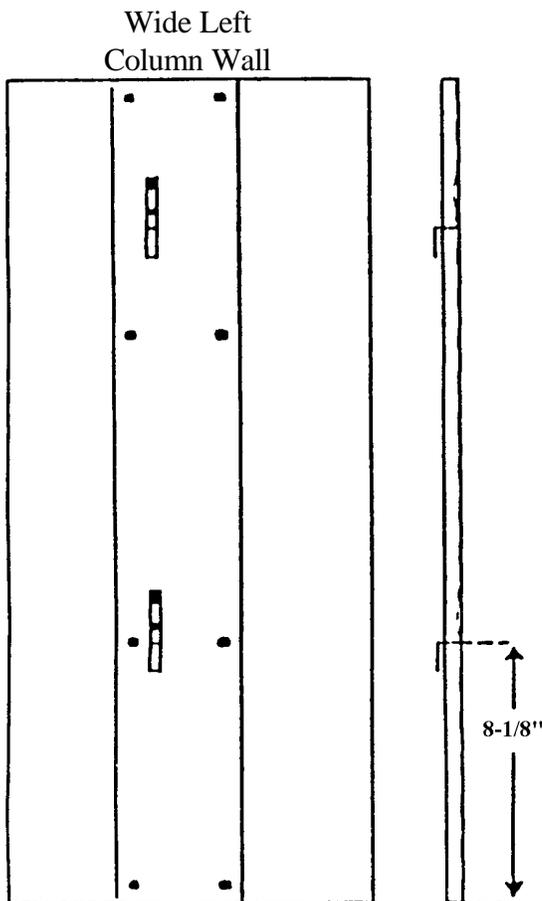


Figure 6

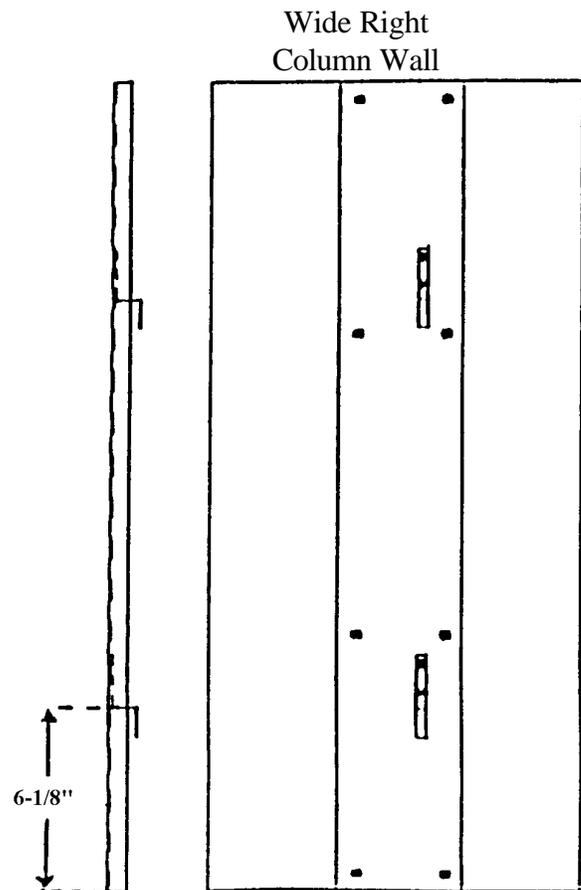


Figure 7

# INSTALLATION OF COLUMN WALL KIT:

## NARROW COLUMNS

1. Unplug the vender.
2. Remove any existing shims.
3. Move the rear spacers to the rear of each column.
4. Take the narrow column wall kit and locate the "clips" which are welded to the back side of the wall. See figure 8 below.
5. Place the narrow kit wall in the column so the "clips" are towards the right column wall.
6. Align the "clips" with the existing slots in the right side stack wall.  
Note: There are two (2) upper and two (2) lower slots in each stack wall. Use the lower slots at each location.
7. Push the wall in position to secure (clips in slots).
8. Set the rear spacer in the proper position.
9. Set the cams in the proper position.
10. Load the product and test for proper vending.

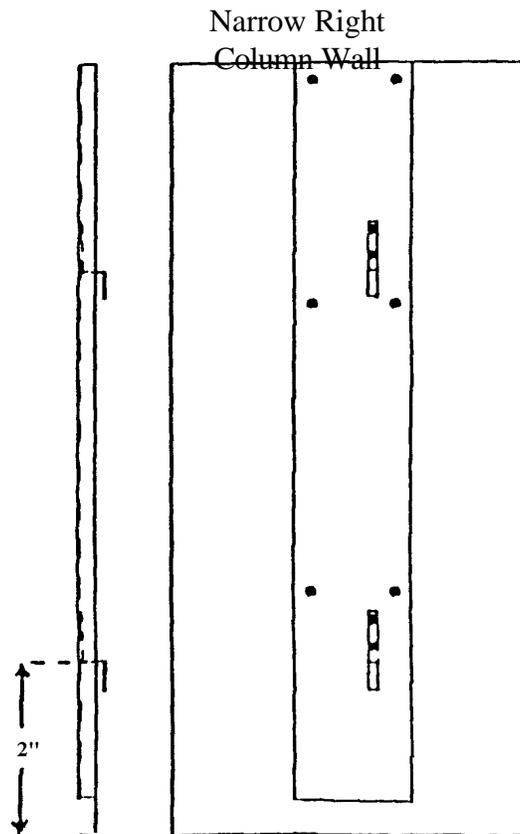


Figure 8

Use This Chart To "Set-Up" and "Shim" the "Shimless Stack" Vender.

Series 90, Beginning S/N 0001-3162AO & Up (Except Run Numbers 3164AO, 3166AO and 3167AO).

Pre-Series 90, Beginning S/N 0001-3098AN to 0001-3162AO (Except 1954-3161AO to 2003-3161AO & 2656-3161AO to 2750-3161AO)  
 (Includes production runs 3164AO, 3166AO and 3167AO)

## RETURNABLE GLASS BOTTLES

Wide Columns

All Columns

Narrow Columns

PACKAGE DESCRIPTION & VENDERS APPROVED	SEE PAGE(S)	COUNTRY	LOADING DEPTH	PARTS PER COLUMN	CAM SETTING	CAM(S) REQ'D	REAR SPACER REQ'D	LOADING DEPTH	PARTS REQ'D PER COLUMN	ROD IN	ROD IN	CAM SETTING	OTHER PARTS
200 ml Coca-Cola Returnable Bottle in Models 180, 360 & 432	2, 3, 4, 7, & B1	Belgium	1	1 w/a right & left bottle shim, 6 flat black & 2 flat grey shims	2 notches	blue/gold	Hole 13	NA	NA	NA	NA	NA	none
200 ml Mineral Water Returnable Bottle in Model 360	2, 3, 4, 7, & B1	Denmark	1	2 flat grey, 4 flat black, 1 w/a right & left bottle shim	2 notches	blue/gold	Hole 14	NA	NA	NA	NA	NA	none
250 ml Coca-Cola, Fanta, & Sprite Returnable Bottles in Models 180 & 360	2, 3, 4, 7, B1 & B2	Denmark	1	See Individual Column Set-Up	2 notches	blue/gold	Hole 16	NA	NA	NA	NA	NA	none
250 ml Pepsi "Swirl" Returnable Bottle in Model 360	2, 3, 7, & B1	Denmark	1	w/a right & left column wall	2 notches	blue/gold	Hole 16	NA	NA	NA	NA	NA	none
330 ml Returnable Beer Bottle in Model 360	2, 3, 4, 6, & B2	Denmark	1	2 flat black, 2 grey shims	2 notches	blue/gold	Hole 17	NA	NA	NA	NA	NA	discharge member
500 ml Pepsi Swirl Returnable Bottle in Model 360	2, 3, 5, 6, & B2	Denmark	1	0	2 notches	blue/gold	Hole 23	NA	NA	NA	NA	NA	divider angle, bottle neck, stop, discharge member
330 ml Returnable Water Bottle in Models 432 & 360	2, 3, 4, & B2	Finland	1	2 flat black shims	2 notches	blue/gold	Hole 13	NA	NA	NA	NA	NA	none

PACKAGE DESCRIPTION & VENDERS APPROVED	SEE PAGE(S)	COUNTRY	LOADING DEPTH	PARTS PER COLUMN	CAM SETTING	CAM(S) REQ'D	REAR SPACER REQ'D	LOADING DEPTH	PARTS REQ'D PER COLUMN	ROD IN	ROD IN	CAM SETTING	OTHER PARTS
350 ml Coca-Cola Returnable Bottle in Models 360 & 432	2, 3, 4, 6, & B3	Finland	1	1 w/a right & 1 w/a left shim	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	divider angle
350 ml Sprite & Fanta Returnable Bottle in Model 432	2, 3, 4, & B3	Finland	1	2 flat grey shims	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
200 ml Coca-Cola Returnable Bottle in Models 180, 300, 360 & 432	2, 3, 4, & B3	Germany	1	1 w/a right & left bottle shim, 2 flat grey & 6 flat black shims	2 notches	blue/gold	Hole 13	NA	NA	NA	NA	NA	none
200 ml Pepsi "Straight Wall" Returnable Bottle in Models 432, 360, 300, & 180	2, 3, 4, & B3	Germany	1	1 w/a right & left bottle shim, 6 flat black shims	2 notches	blue/gold	Hole 15	NA	NA	NA	NA	NA	none
.25 L Returnable Green Water Bottle in Models 180, 300, 360 & 432	2, 3, 4, & B3	Germany	1	6 flat black shims, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 15	NA	NA	NA	NA	NA	none
330 ml Coca-Cola Returnable Bottle in Models 432, 360, 300, & 180	2, 3, 4, & B4	Germany	1	2 flat black, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
330 ml Fanta Returnable Bottle in Models 432, 360, 300 & 180	2, 3, 4, & B4	Germany	1	2 flat black shims & w/a right & left shims	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
330 ml Pepsi "Straight Wall" Ret. Bottle in Models 432, 360, 300, & 180; and 330 ml Pepsi Ret. Bottle in Models 360 & 440	2, 3, 4, & B4	Germany Slovakia	1	4 flat black, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 17	1	bottle shim, right & left	B	-	#4	none
330 ml Pepsi "Swirl" Returnable Bottle in Models 432, 360, 300, & 180	2, 3, 4, & B4	Germany	1	2 flat black, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 17	NA	NA	NA	NA	NA	none

PACKAGE DESCRIPTION & VENDERS APPROVED	SEE PAGE(S)	COUNTRY	LOADING DEPTH	PARTS PER COLUMN	CAM SETTING	CAM(S) REQ'D	REAR SPACER REQ'D	LOADING DEPTH	PARTS REQ'D PER COLUMN	ROD IN	ROD IN	CAM SETTING	OTHER PARTS
500 ml Returnable Coca-Cola Contour Bottle In Model 180	2, 3, 6, & B5	Germany	1	1 milled oscillator	2 notches	blue/gold	Hole 22	NA	NA	NA	NA	NA	discharge member
500 ml Returnable (New Design) Beer Bottle in Models 180, 300, 360, & 432	2, 3, 4, 6, & B5	Germany	1	2 grey shims, 1 oscillator	2 notches	blue/gold	Hole 20	NA	NA	NA	NA	NA	discharge member
300 ml Coca-Cola & Fanta Returnable Bottle in Models 360 & 432	2, 3, 4, & B5	Malta	1	4 flat black, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
300 ml "Like" & "Hapi" Returnable Bottle in Model 360	2, 3, 4, & B5	Malta	1	2 flat black, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
300 ml Sprite Returnable Bottle in Models 360 & 432	2, 3, 4, & B6	Malta	1	4 flat black, 2 flat metal shims	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
350 ml Diet Coca-Cola & Diet Sprite Returnable Bottle in Models 360 & 432	2, 3, 4, & B6	Malta	1	4 flat black, 4 flat metal shims	2 notches	blue/gold	Hole 21	NA	NA	NA	NA	NA	none
350 ml Coca-Cola Returnable Bottle in Models 360 & 432	2, 3, 4, 6, & B3	Norway	1	1 w/a right & left shim	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	divider angle
350 ml Postobon Returnable Bottle in Models 360, 368, & 440	2, 3, 4, & B6	South America	1	2 flat black, 2 flat grey, 1 w/a bottle shim right & left	2 notches	blue/gold	Hole 18	NA	NA	NA	NA	NA	none
180 ml Coca-Cola Returnable Bottle in Model 276	2, 3, 7, & B6	United Kingdom	1	w/a right & left column wall	2 notches	blue/gold	Hole 12	-	Do Not Vend	-	-	-	none
8oz Coca-Cola Returnable Bottle in Models 180, 368, & 440	2, 3, 4, 7, & B7	United States	1	2 grey shims, w/a right & left column wall	2 notches	blue/gold	Hole 12	-	Do Not Vend	-	-	-	none

Wide Columns

All Columns

Narrow Columns

PACKAGE DESCRIPTION & VENDERS APPROVED	SEE PAGE(S)	COUNTRY	LOADING DEPTH	PARTS PER COLUMN	CAM SETTING	CAM(S) REQ'D	REAR SPACER REQ'D	LOADING DEPTH	PARTS REQ'D PER COLUMN	ROD IN	ROD IN	CAM SETTING	OTHER PARTS
250 ml Coca-Cola, Fanta, Sprite bottles in Model 276	2, 3, 4, 7, & B7	Uruguay	1	w/a left & right column wall	2 notches	blue/gold	Hole 12	1	1 bottle shim, 1 long flat shim, 1 rear spacer	Front C Rear A	-	#4	none

# INDIVIDUAL COLUMN SET-UP & SHIMMING

## **200 ml BELGIUM RETURNABLE BOTTLE (BELGIUM) (In models 180, 360, & 432)**

Wide Column Set-Up 1 deep

1 - 443,014,00x.x3	w/a left bottle shim -3
1 - 443,014,10x.x3	w/a right bottle shim -3
2 - 801,805,12x.x1	flat grey shim (1 each side behind metal shim)
6 - 801,804,96x.x1	flat black shim (3 each side behind metal shim)
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #13

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

## **200 ml MINERAL WATER GLASS RETURNABLE BOTTLE (DENMARK) (In model 360)**

Wide Column Set-Up 1 deep

1 - 443,014,00x.x3	w/a left bottle shim -3
1 - 443,014,10x.x3	w/a right bottle shim -3
4 - 801,804,96x.x1	flat black shim (2 per side behind metal shim)
2 - 801,805,12x.x1	flat grey shim (1 per side behind metal shim)
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #14.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

## **250 ml COCA-COLA RETURNABLE BOTTLE (DENMARK) (In models 180 & 360)**

Wide Column Set-Up 1 deep

1 - 443,014,00x.x3	w/a left bottle shim -3
1 - 443,014,10x.x3	w/a right bottle shim -3
6 - 801,804,90x.x1	flat black shim (3 each side behind metal shim)
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #16.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

## **250 ml FANTA RETURNABLE BOTTLE (DENMARK) (In models 180 & 360)**

Wide Column Set-Up 1 deep

1 - 443,010,60x.x3	w/a left bottle shim -2
1 - 443,010,70x.x3	w/a right bottle shim -2
6 - 801,804,96x.x1	flat black shim (3 each side behind metal shim)
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #16.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

## **250 ml PEPSI SWIRL RETURNABLE BOTTLE (DENMARK) (In model 360)**

Wide Column Set-Up 1 deep

1 - 488,010,20x.x3	w/a wall, left
1 - 488,010,10x.x3	w/a wall, right
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #16.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**250 ml SPRITE RETURNABLE BOTTLE (DENMARK) (In models 180 & 360)**

Wide Column Set-Up 1 deep

- 1 - 443,010,60x.x3 w/a left bottle shim -2
- 1 - 443,010,70x.x3 w/a right bottle shim -2
- 6 - 801,804,96x.x1 flat black shim (3 each side behind metal shim)
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #16.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

**330 ml RETURNABLE BEER BOTTLE (DENMARK) (In model 360)**

Wide Column Set-Up 1 deep

- 2 - 801,804,96x.x1 flat black shim (1 each side)
- 2 - 801,805,12x.x1 grey shim (1 each side)
- 1 - see list extended discharge member
- 491,051,70x.x4 for wide Coke Landscape, Pepsi Circular & Generic Circular venders
- 491,051,90x.x4 for all Full Length Sign Flat & Display venders
- 493,051,10x.x4 for narrow Coke Landscape, Pepsi Circular & Dr. Pepper D3 venders
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #17.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES,

Install extended discharge member. (See page 6.)

**500 ml PEPSI SWIRL RETURNABLE BOTTLE (DENMARK) (In model 360)**

Wide Column Set-Up 1 deep

No shims required.

- 1 - 236,010,01x.x3 divider angle
- 1 - 432,010,76x.x3 bottle neck stop
- 1 - see list extended discharge member
- 491,051,70x.x4 for wide Coke Landscape, Pepsi Circular, & Flat Full Length Sign venders
- 493,051,10x.x4 for narrow Coke Landscape, Pepsi Circular & Dr. Pepper D3 venders
- 491,051,90x.x4 for all Full Length Sign Flat & Display venders
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #23.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

INSTALL DIVIDER ANGLE ON CAN/BOTTLE CHUTE.

INSTALL BOTTLE NECK STOP ON FRONT OF CAN/BOTTLE CHUTE.

(See pages 5 and 6.)

**330 ml RETURNABLE WATER BOTTLE (FINLAND) (In models 360 & 432)**

Wide Column Set-Up 1 deep

- 2 - 801,804,96x.x1 flat black shim (1 each side)
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #13.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**350 ml COCA-COLA RETURNABLE BOTTLE (NORWAY) (In models 360 & 432)**

**350 ml COCA-COLA RETURNABLE BOTTLE (FINLAND) (In models 360 & 432)**

Wide Column Set-Up 1 deep

- 1 - 443,010,60x.x3 w/a left bottle shim -2
- 1 - 443,010,70x.x3 w/a right bottle shim -2
- 1 - 236,010,01x.x3 divider angle
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

INSTALL DIVIDER ANGLE ON DELIVERY CHUTE. (See page 6.)

**350 ml SPRITE RETURNABLE BOTTLE (FINLAND) (In model 432)**

**350 ml FANTA RETURNABLE BOTTLE (FINLAND) (In model 360)**

Wide Column Set-Up 1 deep

- 2 - 801,805,12x.x1 flat grey shim (1 each side)
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**200 ml COCA-COLA RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

- 6 - 801,804,96x.x1 flat black shim (3 each side behind metal shim)
- 1 - 443,014,10x.x3 w/a right bottle shim -3
- 1 - 443,014,00x.x3 w/a left bottle shim -3
- 2 - 801,805,12x.x1 flat grey shim (1 each side behind metal shim)
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #13.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.

**200 ml PEPSI "STRAIGHT WALL" RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

- 1 - 443,014,00x.x3 w/a left bottle shim -3
- 1 - 443,014,10x.x3 w/a right bottle shim -3
- 6 - 801,804,96x.x1 flat black shim (3 each side behind metal shim)
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #15.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**.25 L RETURNABLE GREEN WATER BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

- 6 - 801,804,96x.x1 flat black shim (3 each side behind metal shim)
- 1 - 443,014,10x.x3 w/a right bottle shim -3
- 1 - 443,014,00x.x3 w/a left bottle shim -3
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #15.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES

**330 ml COCA-COLA RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

2 - 801,804,96x.x1 flat black shim (1 each side behind metal shim)  
1 - 443,010,70x.x3 w/a right bottle shim -2  
1 - 443,010,60x.x3 w/a left bottle shim -2  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**330 ml FANTA RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

2 - 801,804,96x.x1 flat black shim (1 each side behind metal shim)  
1 - 443,010,60x.x3 w/a left bottle shim -2  
1 - 443,010,70x.x3 w/a right bottle shim -2  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**330 ml PEPSI "STRAIGHT WALL" RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

**330 ml PEPSI RETURNABLE GLASS BOTTLE (SLOVAKIA) (In model 360 & 440)**

Wide Column Set-Up 1 deep

4 - 801,804,96x.x1 flat black shim (2 each side behind metal shim)  
1 - 443,010,60x.x3 w/a left bottle shim -2  
1 - 443,010,70x.x3 w/a right bottle shim -2  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #17.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES

Narrow Column Set-Up

1 - 267,012,30x.x3 rod & spring assembly  
2 - 801,805,23x.x1 bottle shim (1 each side)

Place rod in hole "B" of rotor.

Install shim on left with ridges to the right.

Install shim on right with shim turned opposite, ridges to the left.

Cam setting #4 or 1 notch.

Rear spacer set in hole #17.

**330 ml PEPSI "SWIRL" RETURNABLE BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

2 - 801,804,96x.x1 flat black shim (1 each side behind metal shim)  
1 - 443,010,70x.x3 w/a right bottle shim -2  
1 - 443,010,60x.x3 w/a left bottle shim -2  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #17.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES

**500 ml COCA-COLA "CONTOUR" RETURNABLE BOTTLE (GERMANY) (In model 180)**

Wide Column Set-Up 1 deep

No shims required.

- 1 - 491,073,70x.x3 oscillator, milled - DD
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold
- 1 - see list extended discharge member
- 491,051,70x.x4 for wide Coke Landscape, Pepsi Circular, & Flat Full Length Sign venders
- 491,051,90x.x4 for all Full Length Sign Flat & Display venders
- 493,051,10x.x4 for narrow Coke Landscape, Pepsi Circular, & Dr. Pepper D3 venders

Cam setting #1 or 2 notches.

Rear spacer set in hole #22.

Install extended discharge member.

SET CLOSURE STRIP FOR BOTTLES.

**500 ml RETURNABLE "NEW DESIGN" BEER BOTTLE (GERMANY) (In models 180, 300, 360, & 432)**

Wide Column Set-Up 1 deep

- 2 - 801,805,12x.x1 grey shim (1 each side)
- 1 - see list extended discharge member
- 491,051,70x.x4 for wide Coke Landscape, Pepsi Circular, & Flat Full Length Sign venders
- 491,051,90x.x4 for all Full Length Sign & Display venders
- 493,051,10x.x4 for narrow Coke Landscape, Pepsi Circular, & Dr. Pepper D3 venders
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold
- 1 - 801,201,51x.x1 oscillator, 500 ml No Can Retainer

Cam setting #1 or 2 notches.

Rear spacer set in hole #20.

INSTALL EXTENDED DISCHARGE MEMBER.

SET CLOSURE STRIP FOR BOTTLES.

**300 ml COCA-COLA RETURNABLE BOTTLE (MALTA) (In models 360 & 432)**

**300 ml FANTA RETURNABLE BOTTLE (MALTA) (In models 360 & 432)**

Wide Column Set-Up 1 deep

- 4 - 801,804,96x.x1 flat black shim (2 each side behind metal shim)
- 1 - 443,010,70x.x3 w/a right bottle shim -2
- 1 - 443,010,60x.x3 w/a left bottle shim -2
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES

**300 ml "LIKE" RETURNABLE BOTTLE (MALTA) (In model 360)**

**300 ml "HAPI" RETURNABLE BOTTLE (MALTA) (In model 360)**

Wide Column Set-Up 1 deep

- 2 - 801,804,96x.x1 flat black shim (1 each side behind metal shim)
- 1 - 443,010,60x.x3 w/a left bottle shim -2
- 1 - 443,010,70x.x3 w/a right bottle shim -2
- 1 - 801,806,39x.x1 vending cam, blue
- 1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

**300 ml SPRITE RETURNABLE BOTTLE (MALTA) (In models 360 & 432)**

Wide Column Set-Up 1 deep

4 - 801,804,96x.x1 flat black shim (2 each side behind metal shim)  
2 - 901,303,63x.x1 flat metal shim (1 each side)  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES

**350 ml DIET COCA-COLA RETURNABLE BOTTLE (MALTA) (In models 360 & 432)**

**350 ml DIET SPRITE RETURNABLE BOTTLE (MALTA) (In models 360 & 432)**

Wide Column Set-Up 1 deep

4 - 801,804,96x.x1 flat black shim (2 each side)  
4 - 901,303,63x.x1 flat metal shim (2 each side)  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #21.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES

**350 ml POSTOBON RETURNABLE BOTTLE (SOUTH AMERICA) (In models 360, 368, & 440)**

Wide Column Set-Up 1 deep

2 - 801,804,96x.x1 flat black shim (1 each side behind metal shim)  
2 - 801,805,12x.x1 flat grey shim (1 each side behind metal shim)  
1 - 443,013,60x.x3 w/a right bottle shim -1  
1 - 443,013,70x.x3 w/a left bottle shim -1  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #18.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

Narrow Column Set-Up

Not applicable at time of release.

**180 ml COCA-COLA RETURNABLE BOTTLE (UNITED KINGDOM) (In model 276)**

Wide Column Set-Up 1 deep

1 - 493,010,30x.x3 w/a wall left  
1 - 493,010,20x.x3 w/a wall right  
1 - 801,806,39x.x1 vending cam, blue  
1 - 801,806,40x.x1 adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #12.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

Narrow Column Set-Up

DO NOT VEND

**8 oz COCA-COLA RETURNABLE BOTTLE (UNITED STATES) (In models 180, 368, & 440)**

Wide Column Set-Up 1 deep

1 - 270,010,20x.x3	368 w/a wall left
1 - 270,010,30x.x3	368 w/a wall right
1 - 275,010,50x.x3	180 w/a wall left
1 - 275,010,60x.x3	180 w/a wall right
1 - 267,013,40x.x3	440 w/a wall left
1 - 267,013,30x.x3	440 w/a wall right
2 - 801,805,12x.x1	flat grey shim (in 180 & 440, 1 per side behind wall)
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #12.

SET DISCHARGE MEMBER AND CLOSURE STRIP FOR BOTTLES.

Narrow Column Set-Up

DO NOT VEND

**250 ml COCA-COLA RETURNABLE BOTTLE (URUGUAY) (In model 276)**

**250 ml FANTA RETURNABLE BOTTLE (URUGUAY) (In model 276)**

**250 ml SPRITE RETURNABLE BOTTLE (URUGUAY) (In model 276)**

Wide Column Set-Up 1 deep

1 - 270,010,20x.x3	w/a wall left
1 - 270,010,30x.x3	w/a wall right
1 - 801,806,39x.x1	vending cam, blue
1 - 801,806,40x.x1	adjustable cam, gold

Cam setting #1 or 2 notches.

Rear spacer set in hole #12.

Narrow Column Set-Up 1 deep

1 - 801,805,23x.x1	bottle shim right
4 - 901,303,63x.x1	long flat shim (4 behind bottle shim)
1 - 267,012,30x.x3	rod and spring assembly
1 - 493,070,70x.x3	rear spacer assy. w/bottle retainer extension

Place rod in hole "A" in rear and hole "C" in front of rotor.

Cam setting #4 or 1 notch.

Rear space set in hole #12.

SET DISCHARGE MEMBER & CLOSURE STRIP FOR BOTTLES.