

MODIFICATION INSTRUCTIONS
***Kodak X-Omat* MULTILOADER 300**
Service Code: 3058
Modification No. 29

***Kodak X-Omat* 270 RA PROCESSOR**
Service Code: 3059
Modification No. 19

***Kodak X-Omat* 180 LP PROCESSOR**
Service Code: 3227
Modification No. 7

Type 1 Selective

- Purpose:** To install an improved version of the WASH RACK, that has these benefits:
- **More uniform washing.** A redesigned water MANIFOLD improves the distribution of water across the ROLLERS.
 - **More corrosion resistant.** SCREWS now hold the SHAFTS of the ROLLERS in the WASH RACK, instead of E-RINGS. The SPRINGS on the WASH RACK are still made of a special, high-quality, stainless steel alloy.
 - **Improved film transport.** A new GUIDE SHOE and an additional IDLER ROLLER improve the transport of film from the WASH RACK into the DRYER RACK. Pinned ROLLERS keep the drive and driven ROLLERS correctly engaged.



HEALTH IMAGING

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Important

Use qualified service personnel to install this modification.



This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

Service Effects: See Pages 11 - 15 for part numbers and configuration changes. Keep these pages with the Illustrated Parts List for the PROCESSOR for future reference.

Special Requirements: None

Serial Numbers:

270 RA PROCESSOR	101 - 2397
MULTILOADER 300	101 - 1040
180 LP PROCESSOR	101 - 1644

Special Tools:

TL-1466 ELECTRIC DRILL
1/8 in. DRILL BIT
CENTER PUNCH
HACK SAW or TIN SNIPS

Installation Time: Approximately 1 hour

Parts Status: Available in Service Parts Management

Parts Requirements: See the Parts List below

Table 1

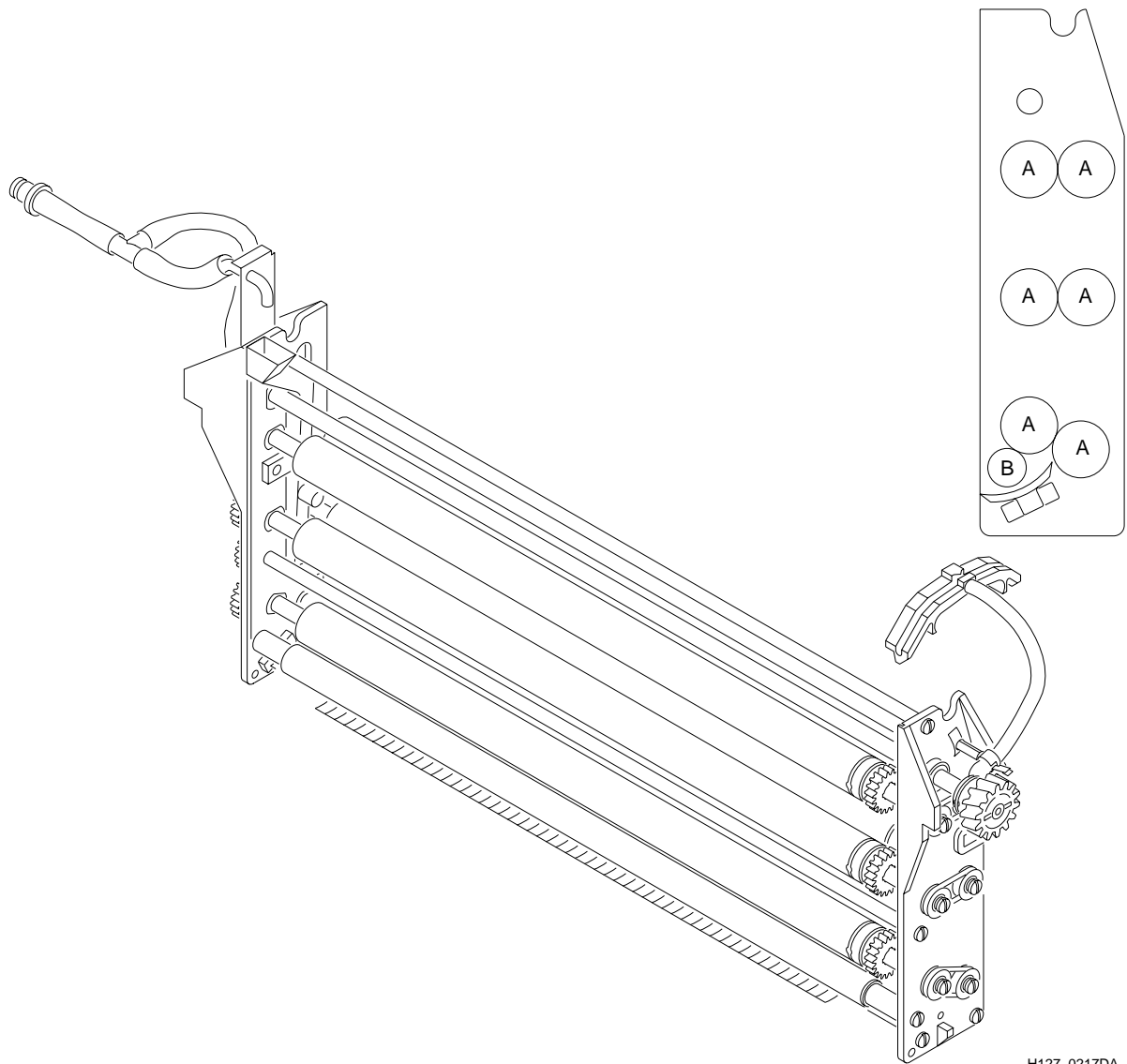
Modification Kit 8B6612 includes:

Part No.	Description	Quantity
5B6890	WASH RACK ASSEMBLY	1
5B6630	DOLE VALVE ASSEMBLY -1/2 GPM	1
1C7642	COVER - TUBING ASSEMBLY	1
1C7643	FASTENER - BUTTON	3
8B6658	Mod Instructions	1

Section 1: Installing the New WASH RACK

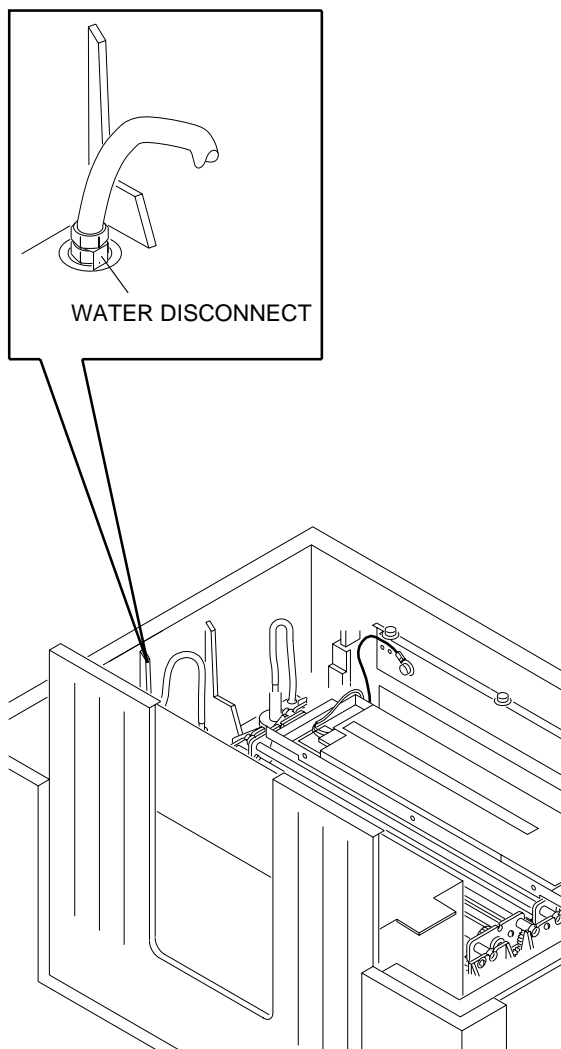
- [1] De-energize the PROCESSOR or MULTILOADER.
- [2] Move the main wall CIRCUIT BREAKER to “OFF”.
- [3] For the 180 LP and 270 RA PROCESSORS only:
 - Lift the TOP COVER.
 - Remove the WET SECTION COVER.
 - Remove the EVAPORATION COVERS.
- [4] For the MULTILOADER 300 only:
 - Extend the PROCESSOR from the MULTILOADER.
 - Remove the WET SECTION COVER.
 - Remove the EVAPORATION COVERS.

Figure 1 **New WASH RACK**

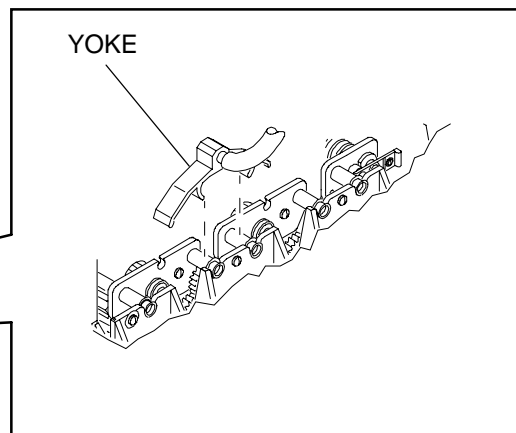
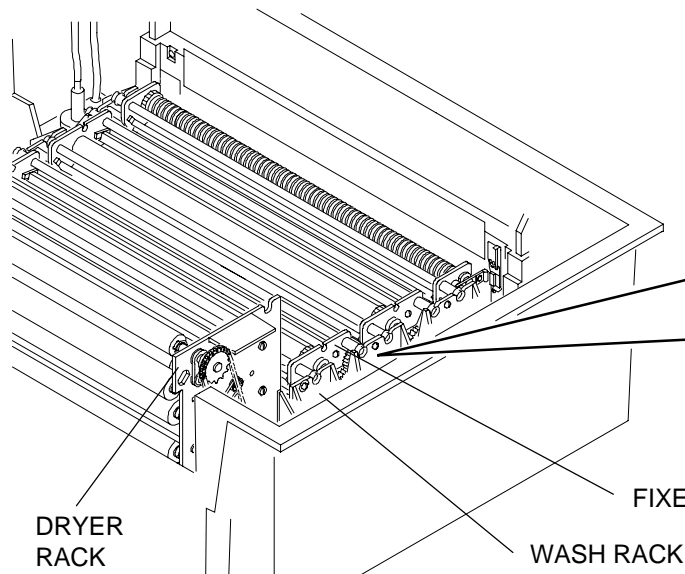


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Figure 2 Removing the WASH RACK —
MULTILOADER 300 Shown



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- [5] Disconnect:
 - WATER DISCONNECT
 - YOKE
- [6] Remove the FIXER/WASH CROSSOVER from the PROCESSOR.
- [7] Lift the WASH RACK from the PROCESSOR.
- [8] Check the new RACK for squareness on a flat surface.
- [9] Install in the PROCESSOR:
 - new WASH RACK
 - FIXER/WASH CROSSOVER
- [10] Connect:
 - YOKE
 - WATER DISCONNECT
- [11] Install the EVAPORATION COVERS.
- [12] See Step 13 to determine if Sections 2 and 3 must be done.
- [13] Check the MODIFICATION LABEL on the PROCESSOR. See Pages 7 - 9 for the location of the LABELS.
 - (a) If the Mod number below is not circled, do Sections 2, 3, and 4.
 - (b) If the Mod number below is circled, do Sections 4 only. Advance to Page 7.

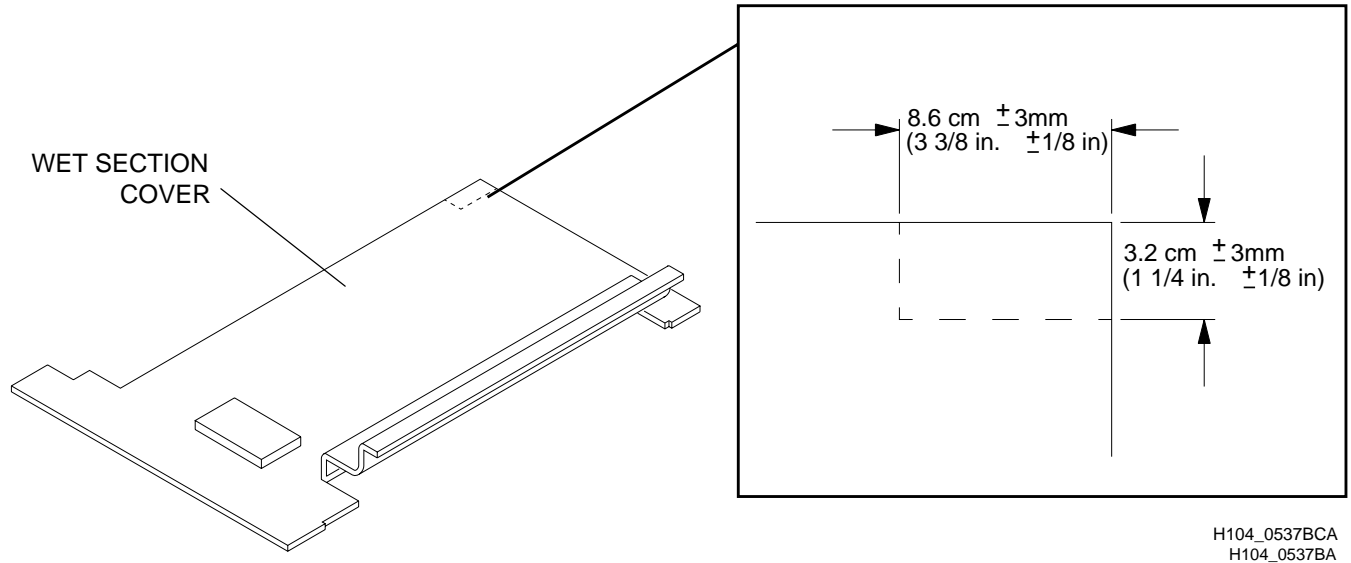
Equipment	Mod No.
MULTILOADER 300	25
270 RA PROCESSOR	17
180 LP PROCESSOR	4

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Section 2: Installing the TUBING ASSEMBLY COVER

[1] See Step 13 on Page 4 to determine if Sections 2 and 3 must be done.

Figure 3 Cutting the WET SECTION COVER



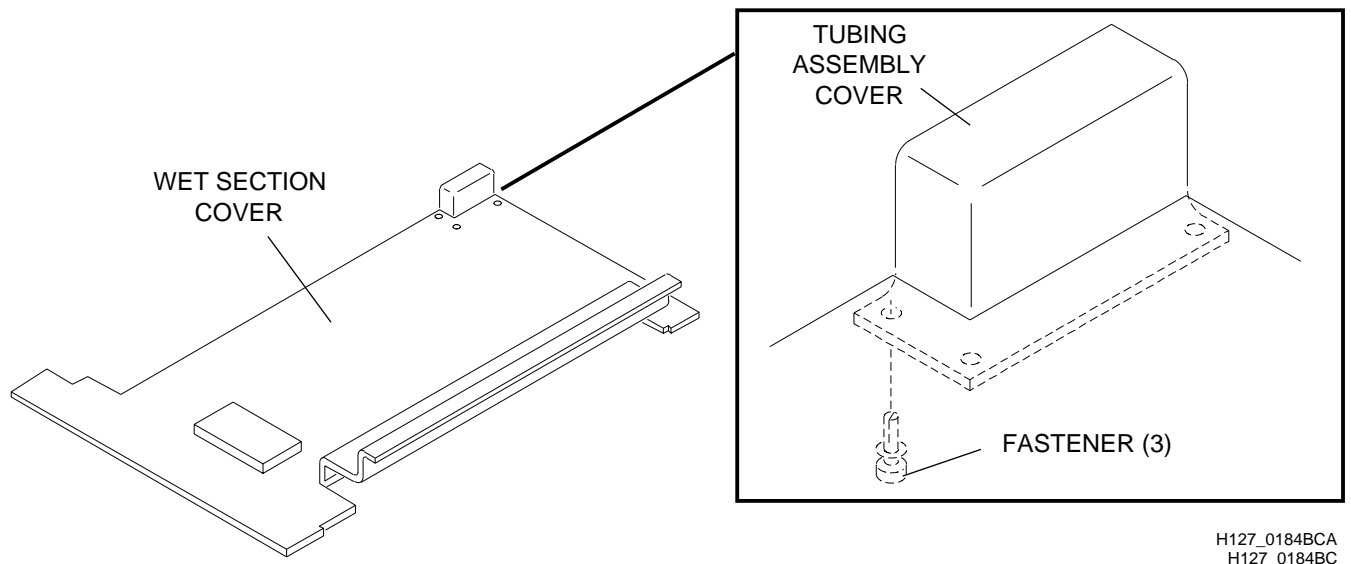
[2] Use the TIN SNIPS or the HACK SAW to cut the WET SECTION COVER as shown in Figure 3 above.

[3] Using the TUBING ASSEMBLY COVER as a template, do the following steps:

- (a) Align the TUBING ASSEMBLY COVER with the WET SECTION COVER as shown in Figure 4 below.
- (b) Check that the edge of the TUBING ASSEMBLY COVER is under the WET SECTION COVER. See Figure 4.
- (c) Use the CENTER PUNCH to mark the holes.
- (d) Use the 3.2 mm ($1/8$ in.) DRILL BIT and the ELECTRIC DRILL TL-1466 to drill the holes.

[4] Install the TUBING ASSEMBLY COVER by inserting the 3 FASTENERS up through the holes in the TUBING ASSEMBLY COVER and the bottom of the WET SECTION COVER.

Figure 4 Installing the TUBING ASSEMBLY COVER



Section 3: Installing the DOLE VALVE



Important

Because the new WASH RACK requires less water flow, you need to install the new ½ gallon/min DOLE VALVE provided in the Kit. The existing and new DOLE VALVES are not interchangeable. Do not use the existing DOLE VALVE with the new WASH RACK.

[1] For access to the existing DOLE VALVE:

- For a MULTILOADER 300, remove the NONDRIVE SIDE SAFETY COVER.
- For a 270 RA PROCESSOR, remove the NONDRIVE SIDE PANEL.
- For a 180 LP PROCESSOR, remove the DRIVE SIDE PANEL and move the ELECTRICAL BOX to the out position.

[2] From the WATER INLET HOSE, remove:

- 2 HOSE CLAMPS
- existing DOLE VALVE

[3] Install the new DOLE VALVE in the correct position with the arrows in the direction of the water flow. See Figures 5 and 6.

Figure 5 **Installing the New Dole Valve in a 270 RA PROCESSOR or a MULTILOADER 300**

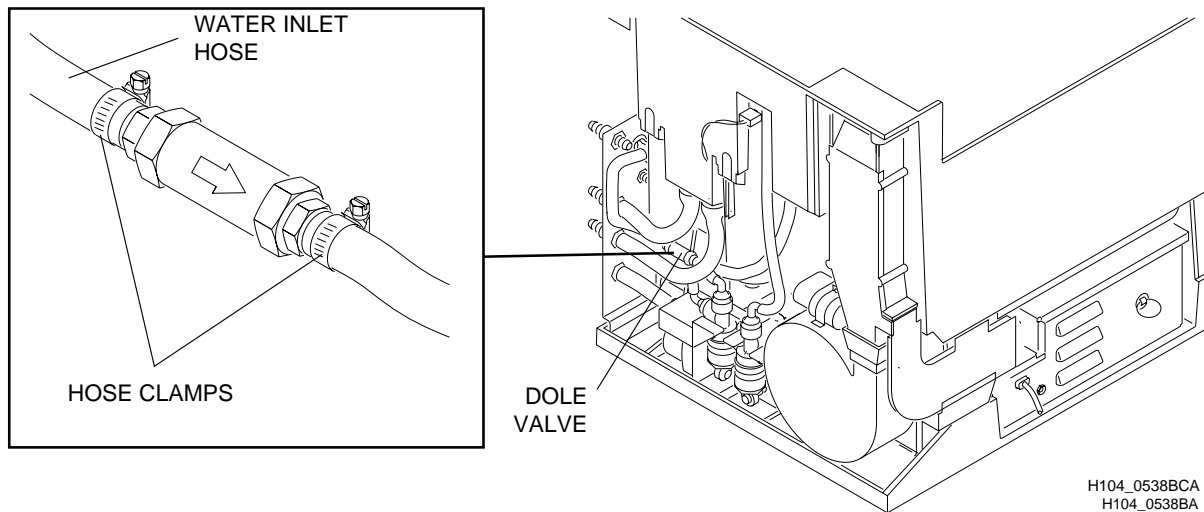
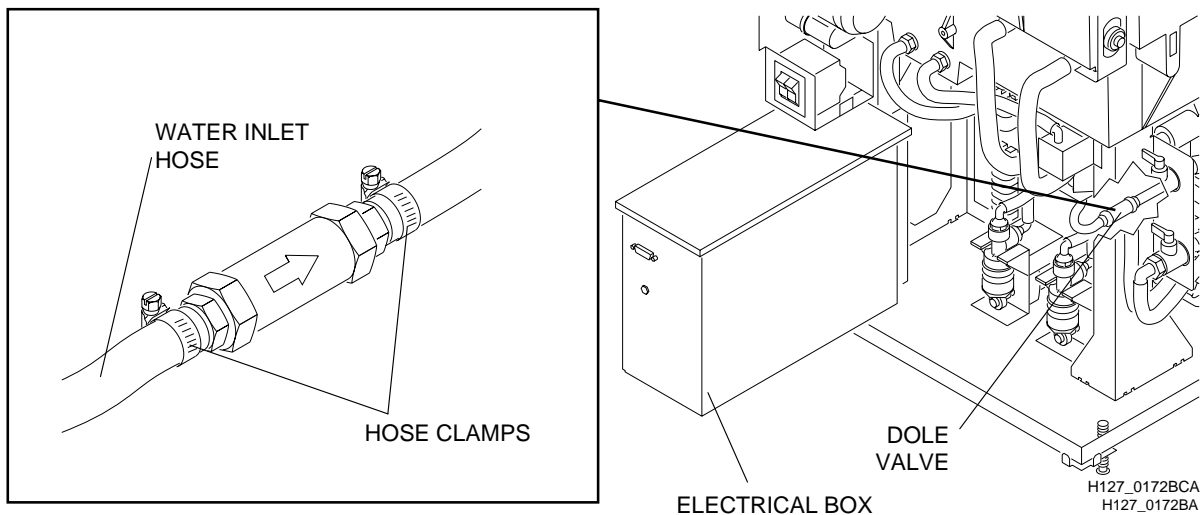


Figure 6 **Installing the New Dole Valve in a 180 LP PROCESSOR**



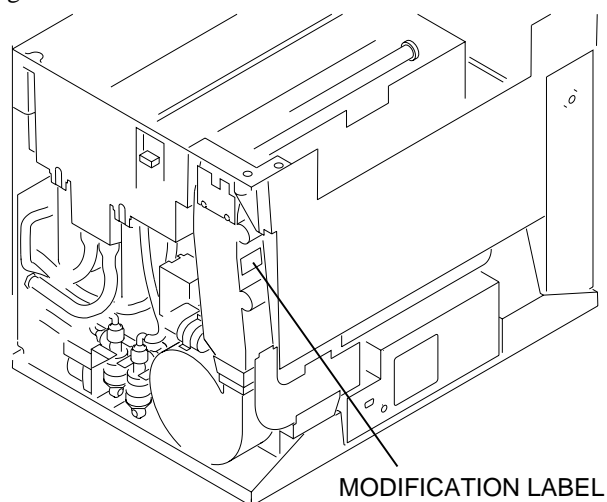
Section 4: Final Steps

[1] Insert Pages 11 - 15 from these Modification Instructions into the Binder for the PROCESSOR.

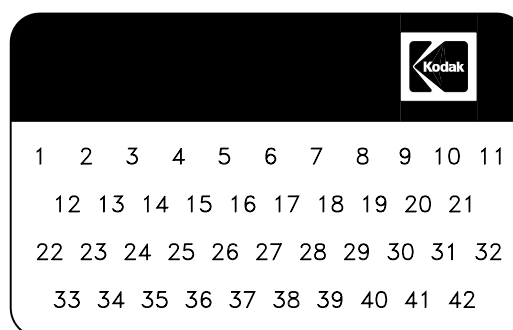
[2] For the 270 RA PROCESSOR only:

- (a) Remove the EXIT PANEL.
- (b) Circle the “19” on the MODIFICATION LABEL.
- (c) Move the main wall CIRCUIT BREAKER to “ON”.
- (d) Energize the PROCESSOR.
- (e) Check that the water flows out of the TUBING BRACKET into the center of the WATER MANIFOLD.
If not, bend the TUBING BRACKET.
- (f) Install:
 - WET SECTION COVER
 - DRIVE SIDE and EXIT PANELS
- (g) Close the TOP COVER.
- (h) Check for correct operation of the PROCESSOR.

Figure 7 **270 RA PROCESSORS**



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Circle the “19”.

[3] For the MULTILOADER 300 only:

- (a) Circle the “29” on the MODIFICATION LABEL.
 - On MULTILOADERS Serial No. 1369 and below, see Figure 8.
 - On MULTILOADERS Serial No. 1370 and above, the MOD LABEL is inside the MAGAZINE DOOR. See Figure 9.
- (b) Move the main wall CIRCUIT BREAKER to “ON”.
- (c) Energize the MULTILOADER.
- (d) Check that the water flows out of the TUBING BRACKET into the center of the WATER MANIFOLD. If not, bend the TUBING BRACKET.
- (e) Install the WET SECTION COVER.
- (f) Move the PROCESSOR into the MULTILOADER 300.
- (g) Check for correct operation of the PROCESSOR.

Figure 8 MULTILOADERS 300 with Serial No. 1369 and Below

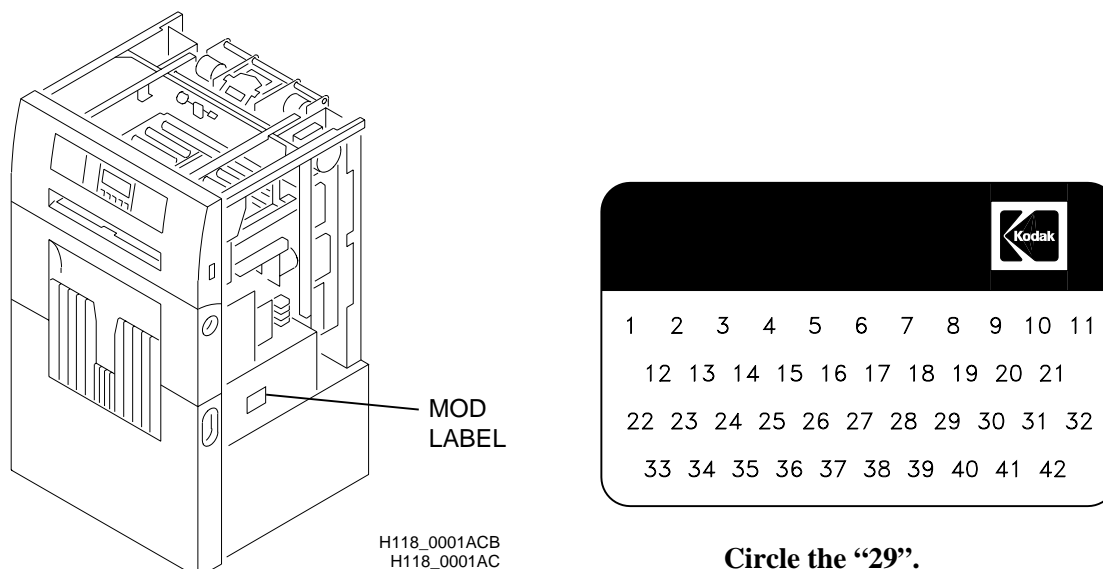
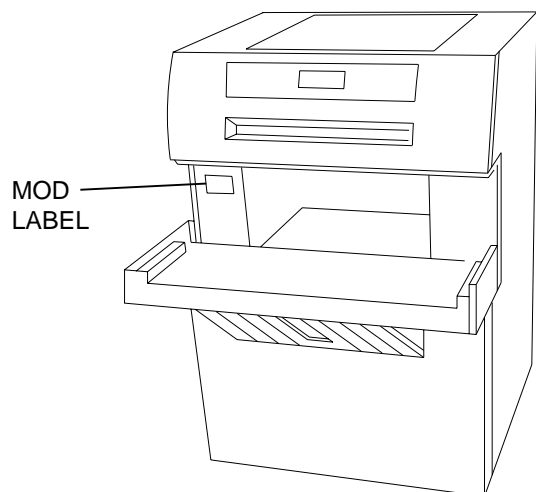


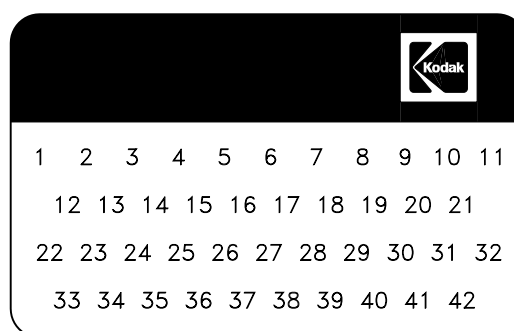
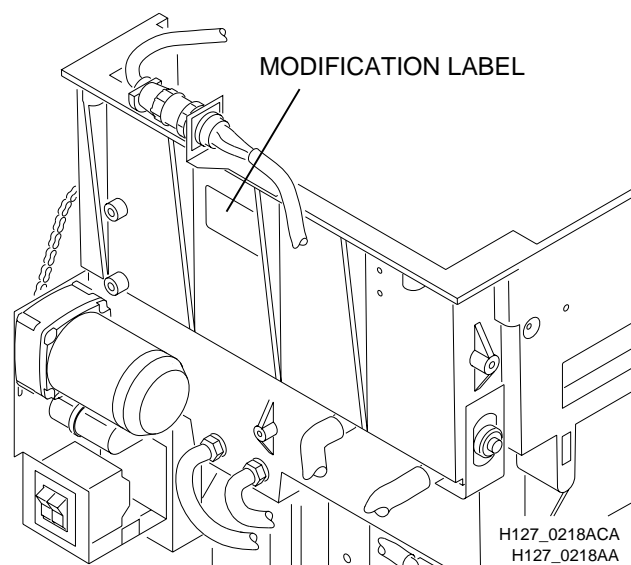
Figure 9 MULTILOADERS 300 with Serial No. 1370 and Above



[4] For the 180 LP PROCESSOR only:

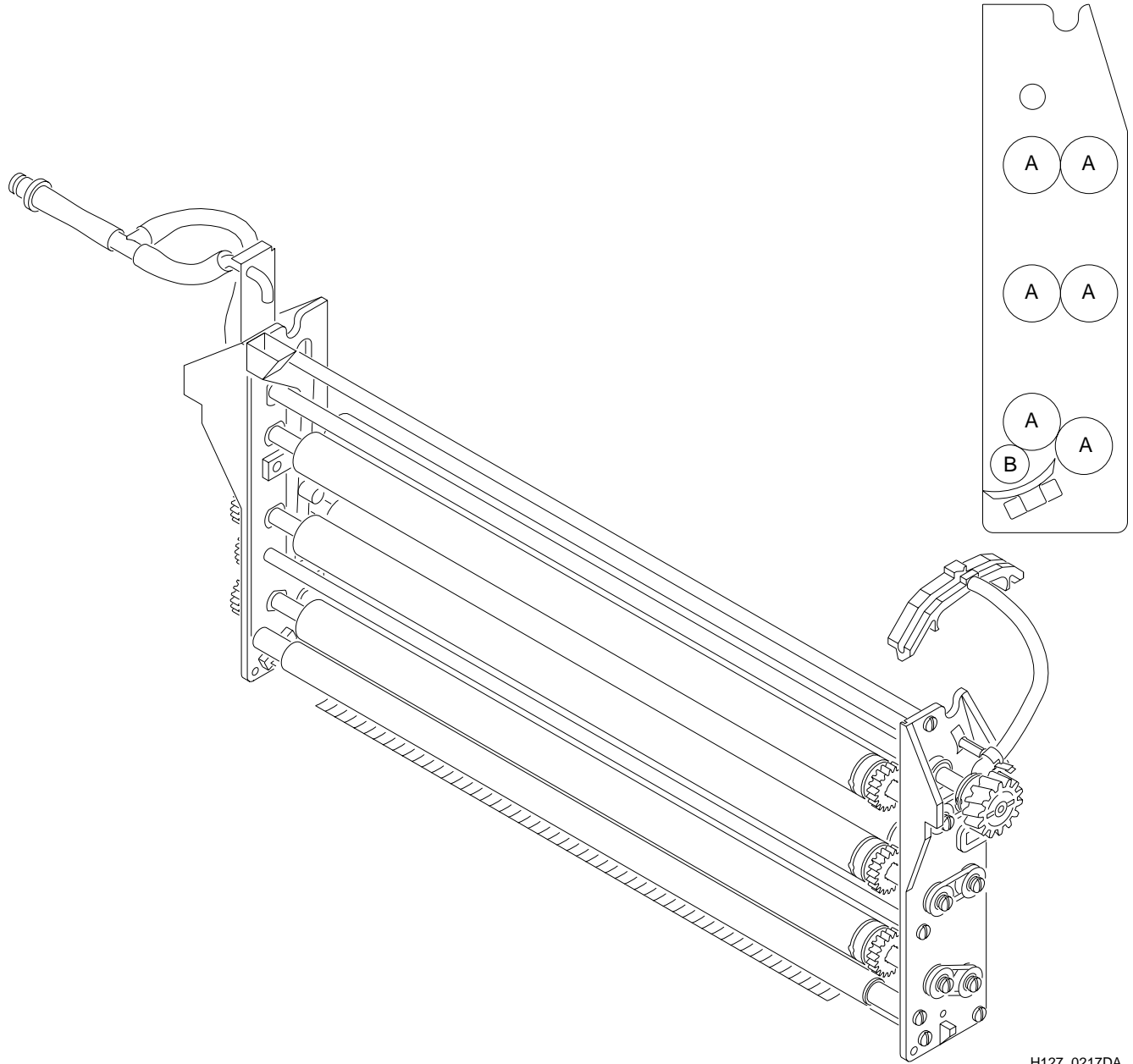
- (a) Remove the DRIVE SIDE PANEL.
- (b) Circle the “7” on the MODIFICATION LABEL.
- (c) Move the main wall CIRCUIT BREAKER to “ON”.
- (d) Energize the PROCESSOR.
- (e) Check that the water flows out of the TUBING BRACKET into the center of the WATER MANIFOLD.
If not, bend the TUBING BRACKET.
- (f) Install the DRIVE SIDE and NON-DRIVE SIDE PANELS.
- (g) Close the TOP COVER.
- (h) Check for correct operation of the PROCESSOR.

Figure 10 **180 LP PROCESSORS**



Circle the “7”.

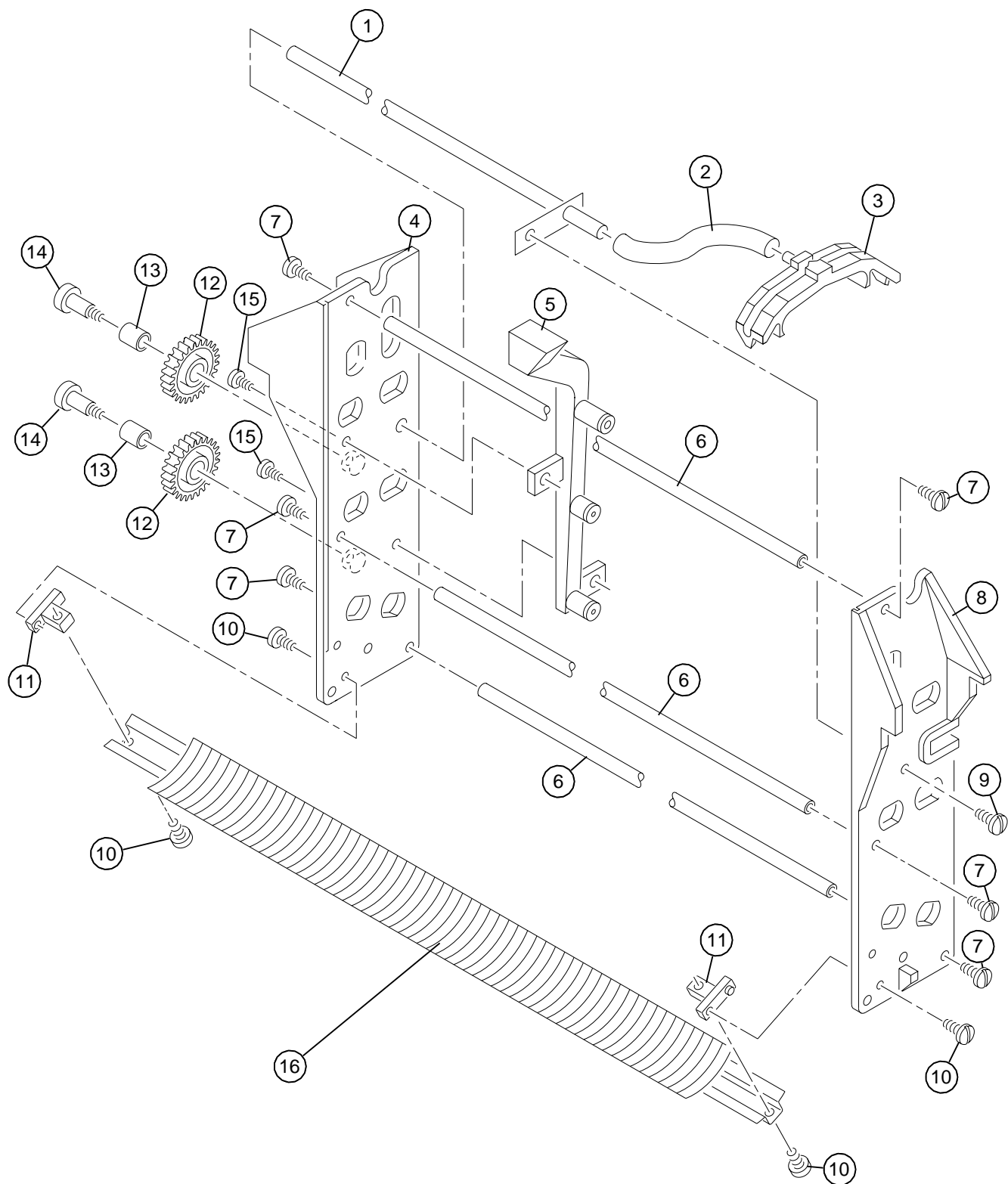
Section 5: Illustrated Parts List for Wash Rack 5B6890



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Item	Part No.	Description
	5B6890	Wash Rack Assembly
A	5B6590	Roller Assembly
B	8B6568	Roller Assembly

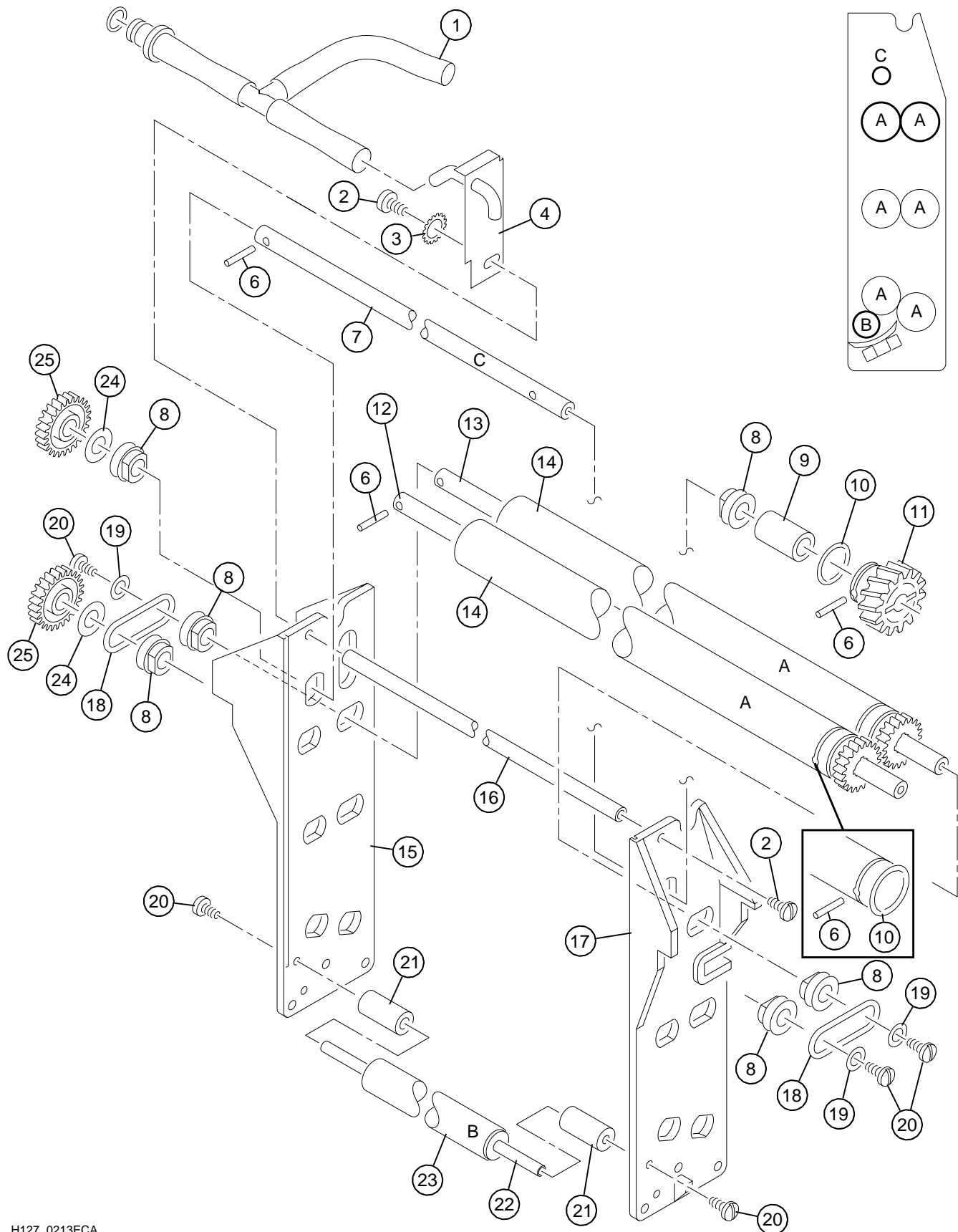
Wash Rack - Guide Shoe and Drive Gear



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Item	Part No.	Description
1	1C4384	Tube - Yoke Supply
2	1C4385	Hose - Yoke
3	1C7399	Yoke and Pin Assembly
4	5B6594	Side Plate - Wash Rack, Non-Drive Side
5	5B6585	Manifold - Water
6	458219	Tie Rod
7	852807	Screw
8	5B6593	Side Plate - Wash Rack, Drive Side
9	852682	Screw
10	544267	Screw
11	474596	Bracket - Guide Shoe
12	779028	Gear
13	911725	Bushing - Idler
14	5B6808	Screw - Shoulder
15	852522	Screw
16	5B6565	Guide Shoe

Wash Rack - Miscellaneous Parts



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H127_0213EA

Item	Part No.	Description	Notes
1	1C4398	Tubing Assembly	
2	852682	Screw	
3	539180	Star Washer	
4	5B6892	Bracket - Tubing	
5	--	--	Item not used.
6	502464	Pin	
7	1C7366	Shaft	
8	779119	Bearing	
9	5B6589	Spacer	
10	183851	O-Ring	
11	5B6591	Gear	
12	5B6588	Shaft	
13	5B6587	Shaft	
14	5B6590	Roller Assembly	A
15	5B6594	Side Plate - Wash Rack, Non-Drive Side	
16	458219	Tie Rod	
17	5B6593	Side Plate - Wash Rack, Drive Side	
18	1C7107	Spring - Extension	
19	852611	Washer	
20	490097	Screw	
21	953828	Spacer	
22	5B6817	Shaft	
23	8B6568	Roller Assembly	B
24	418775	Thrust Washer	
25	779028	Gear	

Publication History

Print Date	Pub. No.	ECO No.	Affected Pages	File Name	Notes
04AUG95	8B6658	2648-334	All	ma3058_29.doc	New Modification Instructions.
29JUN96	8B6658	2592-377	Front Cover, 2, 4, 6, 11, 13, Back Cover	ma3058_29_29jun96.doc	1/2 GPM Dole Valve

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