



AUTOMATED TAMPER-EVIDENT SEAL APPLICATOR

OPERATION AND MAINTENANCE MANUAL



Customer: UCB Manufacturing, Inc.

Machine Serial Number: MSN07411 Manual Revision #: R01 Revision Date: 5/21/13

For service and parts, call ACCRAPLY:

Phone: 905-336-8880 Toll Free: 1-800-387-6742

(System parts/drawings found in Section 2. Head parts/drawings found in Section 4.)

CustomerServiceand Spare Parts

Customer Service

Our trained Service Technicians are available to provide installation and training and ensure you have fast and efficient start-up. Training your personnel in the proper operation, setup, and maintenance procedures for your Accraply labeler ensures excellent long-term performance and reliability. Our Service Department can also assist you in retooling, upgrading, rebuilding and adding the labor saving accessories available for your labeler. Accraply Service Technicians are available to provide phone support Monday through Friday (excluding holidays), during daytime working hours. To request service for an Accraply Labeler, contact our Service Department at location below.

Ordering Parts

Please use the resources provided in our manual. The Bill of Materials and corresponding drawings of the system are in Section 2 (Head parts are in Section 4). The Bill of Material will assist you with identifying your parts needs. Feel free to phone, email or fax your parts inquires to the Parts Department, contact information noted below.

Thank you for purchasing an Accraply Labeling System!

ACCRAPLY CANADA INC.

3070 Mainway Drive, Units 16-19 Burlington, Ontario L7M 3X1 Canada Phone: (905) 336-8880 Fax: (905) 335-5988

Our other locations that support parts and service requirements:

3580 Holly Lane North Plymouth, MN 55447 USA Phone: (763) 557-1313 Fax: (763) 519-9656 760 Rochester Ave., Suite A Ontario, CA 91761 USA Phone: (909) 605-8200 Fax: (909) 390-8166

www.accraply.com

Recommended Spare Parts List

Assembly Number		Assembly Name
Item Number	Qty	Item Name
080800-07411		Infeed, Metering Wheel
80369	2	Wheel, Product
603805-07411		Squaring, Assembly
117068	1	Sensor, Rotary Cylinder
603900-07411		Sensor, Product Standard
105039	1	Sensor, Retro-Reflective (Banner)
621597	1	Sensor, Photo Reflective (Sick)
608888-07411		Applicator, 204 Rh
611457	1	Board, Cpu Assy 204 Prq
611458	1	Supply, Power
611459	1	Panel, Operator Assy
611688	1	T-Belt
611719	1	Motor, Stepper Assy
611724	1	Driver, Moter
611727	1	Roller, Feed 4 (Als 204)
611776	1	Sensor, Rewinder Assy
619662	1	Sensor, Opt Label
621893	1	Wipe, Squeegee
611111-07411		Sensor, Low Label Assy. (204)
600260	1	Sensor, Omron
613200-07411		Sensor, Ultrasonic Label 20X
149772	1	Sensor, Ultrasonic Label
621598-07411		Conveyor, Belt 8"W X 120" Lg
2959	1	Belt, Timing 187L050
611836	1	Encoder,1000 Ppr-Pnp-M6 Shaft
621736	1	Belt, Conveyor 8"W X 120" L
621700-07411		Station ,Wipe Down
602493	2	Switch, Reed
602673	2	Sensor, Magnetic
621741	1	Vision, Checker Sensor

Note: Connectors may need to be ordered with certain sensors, encoders, scanners, etc. Please indicate Machine Serial Number when requesting spare parts. (The Machine Serial Number is identified on the cover page of this manual in the format of "MSN#####" or "RC######").

Barry-Wehmiller



TABLE OF CONTENTS

Customer Service and Spare	Pa	arts	s.							. i
Customer Service										
Ordering Parts				 						
Recommended Spare Parts List										i
Table of Contents										

SECTION 1: SYSTEM OPERATION

1.1 Safety Procedures. 1.1.1 General Guidelines 1.1.2 Cautions and Warnings 1.1.3 Maintenance Safety 1.1.4 Machine Safety Labels	. 1 1 1 2
1.2 Introduction	.13
1.3 General Information	.14
1.3.1 Shipping and Handling	. 14
1.3.2 Service Requirements	. 14
1.3.3 Technical Data	. 14
1.3.4 Installation Procedures	. 15
1.3.5 General System Layout	. 16
1.3.6 General System Process	. 17
1.3.8 Sensors	. 19
1.3.9 P&ID	. 21
1.4 Setup and Adjustments	.22
1.4.1 Threading Diagram	.22 . 22
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application	.22 . 22 . 23
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application 1.4.3 Clearance Sensor Setup	.22 . 22 . 23 . 24
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup	.22 . 22 . 23 . 24 . 25
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures	.22 23 23 24 25 .25
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls	.22 23 24 25 .26
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure	.22 23 24 25 .26 .26 .27
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators.	.22 23 24 25 .26 .26 27 .28
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators 1.5.4 Alarm List.	.22 23 24 25 .26 .26 27 .28 .29
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators 1.5.4 Alarm List.	.22 23 24 25 .26 .26 27 .28 29 .29 .31
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators 1.5.4 Alarm List 1.6 Maintenance 1.6.1 General Maintenance	.22 23 24 25 .26 .26 .26 .27 28 .29 .31 .31
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators 1.5.4 Alarm List. 1.6 Maintenance 1.6.1 General Maintenance 1.6.2 Preventive Maintenance	.22 23 24 25 26 26 27 28 27 28 29 .31 .31 .32
1.4 Setup and Adjustments 1.4.1 Threading Diagram 1.4.2 Label Position and Application. 1.4.3 Clearance Sensor Setup 1.4.4 Wipe Sensor Setup 1.4.4 Wipe Sensor Setup 1.5 Operating Procedures 1.5.1 Controls 1.5.2 Startup Procedure 1.5.3 Alarm Indicators 1.5.4 Alarm List. 1.6 Maintenance 1.6.1 General Maintenance 1.6.3 Troubleshooting.	.22 23 24 25 .26 26 27 28 29 .28 29 .31 .32 .33

SECTION 2: SYSTEM PARTS

2.1 Assembly List	1
2.2 System Parts List & Drawings	2
MSN07411 - System Layout	2
080800-07411 - Infeed, Metering Wheels.	4
600008-07411 - Stand, Custom	6
600106-07411 - Pnu, Assembly 4 Station	8
600107-07411 - Light, Stack	0
600606-07411 - Pnu, 1 Station SMC 2100 1	2
600895-07411 - Control, Electrical	4
603805-07411 - Squaring, Assembly 1	6
603480-07411 - Guide, Rail Assembly 1	8
603900-07411 - Product, Sensor Assembly	20
608888-07411 - Applicator, 204 RH	22
611111-07411 - Sensor, Low Label Assy (204) 2	24
619543-07411 - Guard, 20X Pinch Roller	26
621598-07411 - Belt Conveyor 8"W x 10' Lg	28
621699-07411 - Turn, Assembly	30
621700-07411 - Wipe, Down Station 3	32
621701-07411 - Eject, Bin Assembly 3	34
621870-07411 - Guard, Infeed	36

SECTION 3: ELECTRICAL DRAWINGS

3.1	Electrical	Drawi	ngs					 				 			1
	200000-07411	- Sheet	1 of 9).	 				 						2
	200000-07411	- Sheet	2 of 9).	 				 						3
	200000-07411	- Sheet	3 of 9).	 				 						4
	200000-07411	- Sheet	4 of §).	 				 						5
	200000-07411	- Sheet	5 of 9).	 				 						6
	200000-07411	- Sheet	6 of 9).	 				 						7
	200000-07411	- Sheet	7 of §).	 				 						8
	200000-07411	- Sheet	8 of 9).	 				 						9
	200000-07411	- Sheet	9 of 9).	 				 					1	0
	621593 - Pnu,	Schema	atic		 		 		 					.1	1

SECTION 4: APPENDIX

Sensor, Banner (105039) Sensor, Rotary Cylinder (117068) Sensor, Ultrasonic (149772) Sensor, Low Label (600260) Sensor, Sick (621597) Cognex, Checker 4G Quick Start Guide Accraply 204/206 Operator's Manual Accraply 204/206 Service Manual Accraply 204/206 Spare Parts Catalog





AUTOMATED TAMPER-EVIDENT SEAL APPLICATOR

SECTION 1: SYSTEM OPERATION

Customer: UCB Manufacturing, Inc.

Machine Serial Number: MSN07411 Manual Revision #: R01 Revision Date: 5/21/13

111 Safety Procedures

1.1.1 General Guidelines

- Read and understand your Operation and Service Manual. Understand how to operate the Labeler before using it.
- Keep a regular maintenance schedule. A well maintained machine operates more efficiently.
- Do not operate the Labeler unless all components have been properly installed.
- Do not operate the Labeler unless all components are working properly.
- Do not use the Labeler to label products other than those for which it was designed.
- Do not operate the Labeler at faster speeds than those for which it was designed.
- Refer to Section 4, Appendix for safety instructions for purchased components.

1.1.2 Cautions and Warnings

- Do not operate the Labeler unless it has been electrically grounded.
- Do not remove protective covers and/or guards.
- Use extreme care to keep hands away from all pinch points during machine operation, especially between the knurled and pressure rollers on the Applicator Head.
- Do not remove the product from the conveyor while the conveyor is moving. Stop the conveyor first.
- Do not wear loose clothing, jewellery, or ties that can be pulled into the machine during operation or maintenance. Tie back and secure long hair that may get caught in machine.

1.1.3 Maintenance Safety

- Do not work on the drive system without locking out the power.
- Do not place your hands near a potentially moving surface without locking out the power.
- Use extreme care to avoid contact with the power supply voltages when performing maintenance inside the Applicator Head enclosure.
- Replace all protective covers and/or guards if they have been removed for maintenance or repair.
- Do not operate, troubleshoot, or maintain the equipment while under the influence of any type of drug or alcohol.
- Do not use flammable or toxic cleaning fluids such as gasoline, benzene or ether when cleaning or maintaining the
 equipment.
- Do not use lubricants and spare parts not specified in this manual. Doing so will cause increased downtime, poor equipment performance and reduce the long term operating life of the machine.
- Do not touch the print head (if applicable) without discharging your static potential by touching the metal enclosure. The print head is an electronic module and is highly sensitive to static impacts, which will damage the unit.

1.1.4 Machine Safety Labels

This machine is equipped with safety labels. These safety labels are placed on the machine to identify areas that may be hazardous to the personal safety of the operator. **Read, Understand and Follow these safety notices.**

The descriptions in this manual cover warning labels for machines that are covered by different regulatory codes and standards. Thus, every label described in this section is not found on every machine. Safety label descriptions for special/extra equipment on the machines is found in the Original Equipment Manufacturer manuals that are sent to the customer.

The safety labels used on the machines may use signal words. Each signal word is colour coded.

Background Colour	Label (not actual size)	Description
Red	A DANGER	DANGER indicates an imminently hazardous situation which, if not avoided will result in death or serious injury.
Orange	A WARNING	WARNING indicates a potentially hazardous situation which, if not avoided <u>could</u> result in death or serious injury.
Yellow	A CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

Safety labels can wear out. To obtain replacement safety labels for your machine, please contact our Parts Department

ACCRAPLY CANADA INC.

Parts Department 3070 Mainway Drive, Units 16-19 Burlington, Ontario L7M 3X1 Canada Phone: (905) 336-8880 Fax: (905) 335-5988

ELECTRICAL ENCLUSURES

Name	Figure	Part #	Approx. Size	Label (not actual size)
Electrical Shock/	6010B-iso	850474	2" x 2-1/4"	
Electrocution	6010C-iso	850475	1-1/4" x 1-3/8"	
This label is used to mar that they contain electric power switch and or a po	k electrical enclo al devices and fo ower cord.	osers that do not	clearly show at have a main	THE LLS PRIME NO. DO NO. DO



Name	Figure	Part #	Label (not actual size)	
Hazardous Voltage	H6010-B1.whpk	119554		
Electrical enclosures source of power are r used for "hard wired"	with a disconnect th narked with this labe and corded machine	at opens the only el. The label is es.	AWARN HAZARDOUS VO Contact may cause shock or burn. Turn off and lock ou power before service	ING LTAGE. electric it system ing.

Name	Figure	Part #	Label (not actual size)	
Voltage Present	Accraply Special	119582		٦
Some enclosures hav all of the power sourc dangerous voltage is	ve a disconnect that es. If the switch is ir present.	does not open the off position,	AWARNING Voltage is present in this enclosure even with the switch turned off. Disconnect power supply before servicing.	
			©2002 HCS, LLC 800-748-0241 Reorder No. 119582	_

	Name	Figure	Part #	Label (not actual size)
Potenti	al Arc-Flash	H6006-718.whpk	134778	
1. (Before opening energized circu of power over s appropriate loc	g any enclosure that uit parts or equipmen 50 volts must be diso ckout/tagout procedu	may contain nt, every source connected and ures initiated.	Potential Arc-Flash hazards. Wear proper personal
2. /	After the enclo wearing suitab equipment to te equipment is e must be given discharged and Until the testing equipment to b	sure is opened, a "q le PPE must use ap est all exposed parts lectrically safe. Specto to insure that all cap d that all control pow g is completes, OSH be electrically unsafe	ualified person propriate test s insuring that the cial consideration pacitors are ver disconnected. IA considers the	protective equipment while working inside energized cabinet. (See NFPA 70E).
Ther	re are only two	exceptions to this re	equirment:	
1. 	It will create a equipment typi hazardous are	greater hazard to de ified by disconnectin as, or alarm systems	e-energize the g ventilation to s.	
2. <i>1</i>	Access to ener perform voltag	rgized equipment is e, current, or other t	required to ests.	



Name	Figure	Part #	Label (not actual size)
Protective Earth	IEC-5019a-c	850483	
This label may be fou grounding bus (protec (ground) symbol.	ind inside of each electrical ctive bonding terminal). It is	enclosure next to the the protective earth	

ENTANGLEMENT HAZARDS - GUARDS

Figure	Label (not actual size)	Figure	Label (not actual size)
1012-02.wvpk		1012-05.wvpk	
Part #	A WARNING	Part #	AWARNING
119546	Moving parts can crush and cut. Do not operate with guard removed. Follow lockout procedure before servicing.	119547	If you can read this sign, a guard has been removed. Do NOT operate with guard removed.
Figure	Part #	Figure	Part #
1114-41.whpk	119558	8034-S9whpk	119556
Label (no	t actual size)	Label (not	t actual size)
	AWARNING Rotating shafts and coupling. Do NOT operate with guard removed. Follow lockout procedure before servicing.	A WA If you can read guard has bee Do NOT operat removed.	RNING I this sign, a n removed. te with guard











Figure	Part #
1014-04whpk	104501
Label (no	t actual size)
	AWARNING Moving parts can crush and cut. Keep hands clear. Do NOT operate with guard removed.

Figure	Part #
1143-388.whpk	121574
Label (no	t actual size)
	A WARNING Moving parts can crush and cut. Keep hands clear.
classific Reserve Communication Rystems, LLC	Follow lockout procedure before servicing.

Barry-Wehmiller

CUTTING HAZARDS





SYMBOLS

Label Example	Description
	ISO "Warning Safety Sign". This type of label is meant to tell you what the hazard is (e.g. Burn hazard/hot surface).
	ISO "Prohibition Safety Sign". This label tells you about an action NOT to take in order to avoid a hazard (e.g. Stay clear of area).
	ISO "Manditory Action Safety Sign". This label tells you about an action that NEEDS to be taken in order to avoid a hazard (e.g. Lock out electrical power).

GENERAL DANGER

Name	Figure	Part #	Label (not actual size)
General Danger	6014B-iso	850477	
There are some mac	hine functions that need a g	eneral danger warning.	

ENTANGLEMENT HAZARDS

Name	Figure	Part #	Label (not actual size)
Rotating Shaft	1146B-iso	120958	
Entanglement of finge machine. Do not ope company's lockout pr	ers or hand/ rotating shaft. Prated the labeler with the gu ocedure before servicing the	Keep hands clear of the uard removed. Follow your e machine.	

Name	Figure	Part #	Label (not actual size)
Belt Drive	1009B-iso	850470	
Entanglement of hand not operated the labe lockout procedure be	d/belt drive. Keep hands cle ler with the guard removed. fore servicing the machine	ear of the machine. Do Follow your company's	

Name	Figure	Part #	Label (not actual size)
Rotating Gears	1014B-iso	850484	
Entanglement of hand Do not operated the I company's lockout pr	d/rotating gears. Keep hand abeler with the guard remov ocedure before servicing th	ds clear of the machine. /ed. Follow your e machine.	

CRUSH HAZARDS

Name	Figure	Part #	Label (not actual size)
Roller Pinch Point	1043B-iso	850472	
Crush of hand/roller p not operated the labe lockout procedure be	binch point. Keep hands cle ler with the guard removed. fore servicing the machine.	ar of the machine. Do Follow your company's	ESTINCE, LLC REPIREDE



Name		Figure		Part #	Label (not actual size)
Roller Pinch Point	r Pinch Point 1156B-iso 122950				
Crush of hand/roller pinch point. Keep hands clear of the machine. Do not operated the labeler with the guard removed. Follow your company's lockout procedure before servicing the machine.					
Name		Figure		Part #	Label (not actual size)
Roller Pinch Point		N/A		N/A	
Crush of hand/roller pinch point. Keep hands clear of the machine. Do not operated the labeler with the guard removed. Follow your company's lockout procedure before servicing the machine.				8	
Name		Figure		Part #	Label (not actual size)
Hand Crush, Force F	rom Side	1042B-iso		850471	
Crush of hand/force from side. Keep hands clear of the machine. Do not operated the labeler with the guard removed. Follow your company's lockout procedure before servicing the machine.			ENTITICA LE TOTALEM		

Name	Figure	Part #	Label (not actual size)
Hand Crush, Force From Above	1017B-iso	850485	
Crush of hand/force from above. not operated the labeler with the lockout procedure before servicir	Keep hands clear of guard removed. Follo ng the machine.	the machine. Do ow your company's	

CUTTING HAZARDS

Name	Figure	Part #	Label (not actual size)
Cutting Of Fingers Or Hand, Rotating Blade	1007B-iso	123216	
Cutting of fingers or hand/rotating blade. Kee machine. Do not operated the labeler with th company's lockout procedure before servicin	ep hands clear on the guard remove ag the machine.	f the ed. Follow your	

HEATED SURFACE HAZARDS

Name	Figure	Part #	Label (not actual size)
Burn Hazard, Hot Surface	6043B-iso	850479	
Burn hazard/hot surface. Keep clear of labeler with the guard removed. Follow before servicing the machine.	f the machine. Do v your company's lo	not operated the ockout procedure	

ELECTRICAL HAZARDS

Name	Figure	Part #	Label (not actual size)
Lock Out Electrical Power	6011B-iso	850476	
This label informs the user to lockout the company's lockout procedure before so	ne electrical power. ervicing the machir	Follow your ne.	



Name	Figure	Part #	Label (not actual size)
Switch Power Off Before Beginning Work	6058B-iso	119553	
This label alerts the operator to switch off th beginning any service or repair work. Follow procedure before servicing the machine.	e electrical powe	er before s lockout	

Name	Figure	Part #	Label (not actual size)
Unplug Before Opening U.S. Plug	6057B-iso	850480	
This label informs the user to pull the electrical plug to disconnect the power. Follow your company's lockout procedure before servicing the machine.			
Name	Figure	Part #	Label (not actual size)
Name Read Operators Manual	Figure 6017B-iso	Part # 850478	Label (not actual size)

Name	Figure	Part #	Label (not actual size)
Stay Clear	6008B-iso	850473	
The label is placed on the machine to instru area.	ct personnel to s	tay clear of the	

Barry-Wehmiller

Name	Figure	Part #	Label (not actual size)
Do Not Operate With Guard Removed	6060B-iso	850481	
Do not to operate the machine with the guar	d removed.		

Name	Figure	Part #	Label (not actual size)
CE Label	CE-D.75x.75	113922	
This label is placed on machines that a Community standards. This label is us	are built to meet the sed for CE rated ma	e European achines.	CE

Name	Figure	Part #	Label (not actual size)
PE Label	Figure PE-E	119548	
Physical earth.			
			DE

ADDITIONS

This section allows for additional safety images and definitions between major content updates.

Name	Figure	Part #	Label (not actual size)
Do Not Operate With Guard Removed	6062B-iso	850482	83266
No access for unauthorized persons.			A CONTRACTOR OF A CONTRACTOR O

12



12 Introduction

The purpose of this manual is to provide machine operators and maintenance personnel with the necessary information to set up, operate, and maintain the Accraply Labeler.

CUSTOMER SERVICE AND SPARE PARTS

Customer service contact and ordering instructions for spare parts, non-spare parts and non-engraved parts, recommended spare parts lists and the part order form.

SECTION 1: SYSTEM OPERATION

1.1 Safety Procedures: General and maintenance safety guidelines. Specific cautions and warnings which must be observed during operation are highlighted.

1.2 Introduction: Summary of the Operation and Service Manual contents.

1.3 General Information: Shipping and handling information, service requirements, installation procedures, technical data, general system layout, system process, alarm light stack and sensor details.

1.4 Setup and Adjustments: Provides maintenance and operating personnel instructions on setting up the machine, product change-over procedures, and adjustments that may be necessary for proper functionality of the machine.

1.5 Operating Procedures: Provides information to the machine operator on how to run the machine and use it's controls.

1.6 Maintenance: General information, preventative maintenance and troubleshooting tables.

SECTION 2: SYSTEM PARTS

2.1 Drawing List: List of included system assembly drawings.

2.2 System Parts List & Drawings: List of the parts detailed in the each assembly and the corresponding drawings.

Assembly drawings and parts lists for the labeling head(s) that are not found in this manual can be found in the Labeling Head Operator and Service Manual that was shipped with the machine.

SECTION 3: ELECTRICAL DRAWINGS

3.1 Electrical Drawing List: List of electrical drawings.

3.2 Electrical Drawings: Electrical drawings, firmware version and serial numbers.

SECTION 4: APPENDIX

4.1 Appendix: Technical specifications and setup instructions for sensors and major components in the system. Refer to these sources for information not contained in the system's Operation and Service Manual.



1.3 General Information

1.3.1 Shipping and Handling

- 1. Position the Labeler where it is going to be used. Make sure it is properly balanced and secure.
- 2. Remove all banding and wrapping materials (including plastic tie wraps, cloth bands, padding, etc.) that were installed for shipping.

Note: The Labeler may be heavier on one side due to installed equipment. Be careful when lifting the machine that it does not tilt to one side and fall over.

1.3.2 Service Requirements

	Capacity/Characteristics	
Electrical	120 VAC	
Air	80 PSI	

See Section 3 for more detailed requirements.

1.3.3 Technical Data

Products	Carton: 7-3/4" L x 5-3/8" W x 1-1/4" H
Labels	Seal: 1-3/4" L x 3/4" W
Line Speeds	20 Products per minute
System Description	 Accraply 204 Label Applicator Ultrasonic Label Sensor for Clear or Opaque Labels Dual Label Application Set-Up Automatic Product Speed Following Encoder Product Sensor Assembly Mounting Assembly Belt Conveyor Dual Product Gating/Spacing Wheels Carton Rotation Device Custom Label Wipe-Down Cognex Checker System Carton Eject System Electrical Panel AB PLC Alarm Light Mounting Post Safety Guarding Lockable Air Shut-Off Air Dump with Soft Start Carton Squaring Device

1.3.4 Installation Procedures

- 1. Place the labeler in the desired location.
- 2. Adjust the leveling screws on the machine base to raise the machine off it's casters.
- 3. Make electrical connections (See Electrical schematics in Section 3)
- 4. Connect to air supply.
- 5. Mount the customer supplied backlog sensor at infeed of conveyor.
- 6. Follow setup procedures in Section 1.4 Setup and Adjustmentsfor setup of sensors and application.



1.3.5 General System Layout



WIPE STATION:





1.3.6 General System Process

NORMAL OPERATING MODE:

- The product will be presented to the labeling system by a conveyor supplied by the customer. The product will be presented with the long side leading. The product will be transferred to the labeling system conveyor across a transfer plate.
- 2. There will be a set of opposing spacing wheels at the infeed end of the conveyor. The spacing wheels will be running slower than the labeling conveyor to ensure a gap between products.
- 3. Once the product has cleared the spacing wheels, it will contact a fixed turn bar that will cause the product to start turning. Once it has turned to a certain point, the product will trigger a sensor. The sensor will signal a pneumatic turn cylinder to actuate. The cylinder will extend and contact the product to assist in turning it. The product will then travel into a set of guide rails to guide the product into the labeling station.
- 4. At the labeling station, the product will trigger a product sensor which will initiate the label sequence. A label will be dispensed by the 204 label applicator onto the top of the product at the leading corner. The label will be flagged off the leading corner. The 204 label applicator will be programmed to dispense a second label at a set distance relative to the first label. The distance will be based on pulses received from an installed speed following encoder. The second label will be flagged off the trailing edge of the product.
- 5. The product will then travel to the custom label wipe-down station. The product will trigger wipe-down sensor just before it runs into a closed stop gate. The wipe-down sensor will initiate the wipe-down sequence. A squaring device cylinder will actuate to square up the product. A cylinder mounted above the product will extend and apply pressure to the top of the product. This will ensure the lid will be held closed tightly. The second cylinder will then extend. Fingers mounted on the cylinder will wipe both labels down the sides. The second cylinder and the squaring device cylinder will retract and then checker sensors will inspect the product for label presence. Products with two present labels will be considered a pass. Products without two present labels will be considered a fail. Once the result is determined, the hold-down cylinder will retract. If the inspection is a pass, the stop gate will open and the product will travel down the conveyor. At the trailing edge of the wipe sensor, the gate will close and wait for the next product. If the inspection is a fail, the stop gate will remain closed and the product will immediately be ejected into a reject bin. Ejected products will be verified by an eject verification sensor. This sensor will also act as a bin full sensor.
- 6. The passing products travel to the end of the conveyor to a transfer plate where it will eventually be pushed onto another customer supplied conveyor.

CHALLENGE MODE:

Challenge mode is selectable by use of a selector switch on the main control panel. When Challenge mode is on, the system process is as follows.

- 1. Spacing wheels are stopped and labeler is inhibited in challenge mode.
- 2. Operator places a product on the conveyor between the guiderails, upstream from the labeler in the orientation that it would normally be labeled.
- 3. The product travels through the labeling station but does not receive any labels.
- 4. The product enters the wipe-down station and the normal wipe-down sequence occurs. The checker operates as normal. Passing products (if the product was already pre-labeled) will go to the end of the conveyor, failing products will be ejected.

FLOWCHART (NORMAL OPERATION):





1.3.8 Sensors

BACKLOG SENSOR

The backlog sensor is supplied by UCB. It is mounted at the infeed end of the conveyor just before the spacing wheels. If the labeling system stops for any reason, products will begin to back up at the spacing wheels which will be detected by the backlog sensor. The backlog sensor sends a signal to the upstream system to stop supplying products. There will be room for 2-4 products on the labeler conveyor/transfer plate before the spacing wheels to allow products already on the infeed printer conveyor to be run out.

ROTATE CARTON SENSOR

The Rotate Carton Sensor is a Banner photoelectric sensor with reflector. It is connected to the PLC which controls the carton rotating cylinder. After the product is partially turned by the turn bar, it will break the sensor beam. The cylinder will extend to it's end position and then return home.

PRODUCT SENSOR

The Product Sensor is a Banner photoelectric sensor with reflector. The product sensor is connected directly to the labeling head. When the product triggers the product sensor, it initiates the label dispense cycle. The labeler will dispense two labels per product sensor trigger, one at the leading and one at the trailing edge of the product.

CLEARANCE SENSOR

The Clearance Sensor is a Banner photoelectric sensor with reflector. It is mounted upstream from the corner wipedown station. It is connected to the PLC. This sensor will ensure that a product does not run into the wipe-down components during a wipe cycle. If a product triggers the clearance sensor while the hold down cylinder is in the down position, a clearance pause will occur. During a clearance pause, the conveyor and spacing wheels are paused allowing the wipe-down sequence to complete without the next product interfering if products are spaced too closely. Once the wipe-down sequence is complete, the conveyor and spacing wheels will resume.

WIPE-DOWN SENSOR

The Wipe-Down Sensor is a Sick photoelectric sensor with reflector and complimentary outputs for fail-safe operation. It is connected to the PLC and is mounted on an angle across the plane of the stop gate. The leading edge of a product will block the sensor, initiating the wipe-down cycle. The trailing edge of the product will be detected after the stop gate which will tell the stop gate to close. This sensor must see a gap between products or a "product too long" fault will occur. This is done by counting encoder pulses after the stop gate has opened to release the product. If the pulse count reaches it's limit, the fault occurs.

CHECKER SENSORS

The Cognex Checker Sensors are used to verify label presence on product. They work by looking for a minimum level of pixel count (pixel ratio) in a set window in a captured image. The checker sensors are triggered during the wipe-down cycle, immediately after the wipe down cylinder returns to home position. The checkers are equipped with lights that are required for capturing the image.

GENERAL INFORMATION

Barry-Wehmiller

EJECT VERIFICATION/BIN FULL SENSOR

The Eject Verification/Bin Full is a Sick photoelectric sensor with reflector and complimentary outputs for fail-safe operation. It is connected to the PLC and mounted on the reject bin. After a product fails inspection, the eject cylinder will push the product into the eject bin. After this sequence is initiated, the PLC opens a window where it will expect to receive an output from the eject verification/bin full sensor. If the sensor does not see a product shortly after the system was commanded to eject, the system will stop and an eject verify fault will occur. The same sensor also performs the bin full function. If the sensor is blocked for a set value of time, the PLC determines that the bin is full, and the system will stop. A bin full fault will occur.

LOW LABEL SENSOR

Low Label sensor is Omron photoelectric sensor with adjustable distance setting. The sensor is mounted to the label applicator and aimed at the unwind. It is connected directly to the labeling head. The low label sensor detects the distance between itself and the outer surface of the label roll. When the outer surface of the roll becomes outside the detection distance, the sensor sends an output to the labeling head. The labeler has I/O connected to the system PLC.

LABEL SENSOR

The labeling head is equipped with an ultrasonic label sensor for detecting clear or opaque labels. The label sensor controls dispense functions by detecting the gap between labels. The labeling head uses the signals to dispense labels and compensate for missing labels on the web.

CYLINDER HOME/END SWITCHES

Each cylinder will have two reed switches to monitor home and end positions. These positions will be monitored by the PLC which will signal a fault if a cylinder is out of position or sequence.

PRESSURE SWITCH

There is a Keyence pressure switch monitoring the air pressure at the air inlet. The pressure switch will be set to give an output when the pressure drops below 80PSI.



1.3.9 P&ID





14SetupendAdJustments

1.4.1 Threading Diagram

Refer to the labeling head Operator's Manual for detailed threading instructions. The threading diagram shown here shows the correct web path and overrides the standard web path shown in the Operator's Manual if different.



1.4.2 Label Position and Application



"X" POSITION:

The "X" position of the label on the product is adjusted by loosening the "X" clamp handle on the head mount and turning the "X" adjust hand wheel. Once the adjustment has been made, tighten the clamp handle. This position will be the same for label 1 and label 2.

<u>"Y" POSITION:</u>

The "Y" position of the labeling head should be set so the dispense edge clears the top of the product (the top reference of the product is determined by the top hold rail). The wiper position should be adjusted to apply sufficient pressure to the product to wipe on the label. The "Y" position is adjusted by loosening the "Y" clamp handle on the head mount and turning the "Y" adjust hand wheel. Once the adjustment has been made, tighten the clamp handle.



"Z" POSITION:

The "Z1" position is for the first label. This position is adjusted by changing the "Start Offset" parameter setting in the firmware. This setting creates a delay from the time the product signal is sent to the time the label is dispensed.

The "Z2" position is for the second label. This position is relative to the first label. This position is adjusted by changing the "Label 2 Offset" parameter setting in the firmware.

Refer to the labeling head's Manual for help on adjusting parameters.

1.4.3 Clearance Sensor Setup

The clearance sensor should be approximately 4" upstream from a product being held by the gate.





1.4.4 Wipe Sensor Setup

The wipe sensor must be set up as shown below.

The leading edge of the product determines when the wipe sequence starts. This "start wipe point" must be slightly before the gate. There is a delay in the program that will allow the product to reach the gate before the wipe starts.

The trailing edge of the product determines when the gate closes. This "gate close point" must be slightly after the gate.

Note: the horizontal distance between the "start wipe point" and the "gate close point" should be minimized. If this distance is too large, a second product will trigger the start wipe point before the first product clears the gate close point and a "product-too-long" fault will occur.







150 perating Procedures

1.5.1 Controls

Labeling Head controls can be found in the corresponding Operator's manual in Section 4.

CONTROL PANEL:



ITEM	TYPE	DESCRIPTION	SYSTEM REACTION & RECOVERY	
E/STOP	Palm Button	The E/Stop is mechanically maintained contact type (latching). Press this button to dump the air and cut power to conveyor/spacing wheel drives.	Machine stops. Power is cut to conveyor and spacing wheel drives. Air is dumped. Solid red light on light stack. Solid red HEAD/DRIVE indicator light on control panel. E/Stop must be released. Alarm must be cleared by pressing the Safety Reset button and the Alarm Reset button before restarting.	
SAFETY RESET	Push Button	Push to restore power and air after an E/Stop or Interlock door open.	E/stops must be released and interlocked door must be closed. After the SAFETY RESET button is pressed, power and air is restored to the system. Conveyor and spacing wheels must be started by pressing the START button.	
START	Push Button	Push to start the conveyor and spacing wheels.	System must not contain faults. Conveyor and spacing wheels start. Solid green light on light stack.	
STOP	Push Button	Push to stop the conveyor and spacing wheels.	System stops. Green light on light stack turns off.	
CHALLENGE ON/OFF	Selector Switch	Turn on to run the machine in Challenge Mode. Turn off to run in normal mode.	In challenge mode the yellow light on the light stack is flashing. Labeler is inhibited. Spacing wheels are stopped.	
ALARM RESET	Push Button	After an alarm, the error must be resolved and then this button must be pressed to clear the alarm.	Press to clear the alarm. Red light on light stack turns off. Alarm indicator turns off. Once alarm is cleared, the conveyor and spacing wheels must be started by pressing the START button.	
SENSOR/CYL	Red Light	Indicates there is an error with either a sensor or cylinder, or the eject bin is full. See 1.5.3 Alarms.		
INSPECTION	Red Light	Indicates there is an inspection error. See 1.5.3 Alarms.		
HEAD/DRIVE	Red Light	Indicates there is an error with the labeling head or conveyor drive. See 1.5.3 Alarms.		

1.5.2 Startup Procedure

- 1. Ensure there are no products on the conveyor.
- 2. Turn on Air at shutoff valve.
- 3. Turn on power at mains switch on electrical panel.
- 4. Press ALARM RESET button to silence the siren.
- 5. Press the SAFETY RESET button, wait 3 seconds.
- 6. Press the ALARM RESET button.
- 7. Ensure CHALLENGE MODE is OFF.
- 8. Press the START button.



1.5.3 Alarm Indicators

LIGHT STACK:

RED
YELLOW
GREEN

COLOUR	DESCRIPTION	SYSTEM REACTION
SOLID RED	Error/Fault	System is stopped. See operator control panel for fault indicator.
SOLID YELLOW	Head Warning (Low Label)	System will continue to run. Warning from labeling head could be low label or other head warning. A warning code will be displayed on the keypad. Head warnings are listed in the 204 manual.
FLASHING YELLOW	Challenge mode	The system is in challenge mode.
SOLID GREEN	Conveyor Running	System has no errors and conveyor is running.
FLASHING GREEN	The clearance sensor has detected the next product before the wipe-down sequence has completed.	System has no errors. Conveyor and spacing wheels paused due to clearance pause alarm.

CONTROL PANEL INDICATORS:

LIGHT	FLASHING	SOLID
SENSOR/CYL	 Sensor Failure (wipe-down/evaluation or eject verification/bin full) Bin Full 	Cylinder Position FaultAir Pressure out of range
INSPECTION	3 Consecutive Failures	Eject Verification FailureProduct Too Long (back to back)
HEAD/DRIVE	VFD Fault204 Not Ready	Safety Circuit (E/Stop or Interlock)

For descriptions of these alarms, see 1.5.4 Alarm List
1.5.4 Alarm List

ALARM	CAUSE	SYSTEM REACTION & RECOVERY	TRIGGER METHOD
Sensor Failure	Either the Wipe-Down/ Evaluation sensor, or the Eject Verification/Bin Full sensor has stopped communicating with the PLC.	Machine stops. Solid red light on light stack. Flashing red SENSOR/CYL indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Disconnect one of the sensors. or Misalign the sensor from its reflector.
Bin Full	The bin is full of products. Detected if the Eject Verification/Bin Full sensor has been blocked for a set value of time.	Machine stops. Solid red light on light stack. Flashing red SENSOR/CYL indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Block the Eject Verification/ Bin Full sensor until the error occurs.
Cylinder Position Fault	A cylinder did not make it to its end or home position when expected to. (This alarm indicates that any cylinder could have faulted).	Machine stops. Solid red light on light stack. Solid red SENSOR/CYL indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Disconnect an air hose from one of the cylinders and attempt to operate system.
Air Pressure is Out of Range	Pressure switch detects low pressure (below 80PSI)	Machine stops. Solid red light on light stack. Solid red SENSOR/CYL indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Turn the supply shut-off valve to the exhaust position.
3 Consecutive Failures	The system has failed 3 consecutive inspections.	Machine stops. Solid red light on light stack. Flashing red INSPECTION indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Switch the system mode to "Challenge" mode. Run 3 products through the system.
Eject Verification Failure	The system attempted to eject a product after a failed inspection but the product did not enter the reject bin.	Machine stops. Solid red light on light stack. Solid red INSPECTION indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Switch the system mode to "Challenge" mode. Load one product. When it is ejected, ensure the product does not trigger the eject verification/ bin full sensor by physically stopping the product.
Product Too Long (Back-to-back)	A second product has caught up to a product in the wipe- down/inspection station. If the first product passes inspection, the stop gate will open, but will not be able to close because the next one is too close.	Machine stops. Solid red light on light stack. Solid red INSPECTION indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Stall the product at the stop gate after it has opened to release the product. Allow another product to catch up to it, then release the first product.

OPERATING PROCEDURES

Clearance Pause	The clearance sensor has detected the next product before the wipe-down sequence has completed. (See 3.5.4 Clearance Sensor)	Conveyor and spacing wheels pause. Green light on light stack flashes during pause. Wipe-down sequence finishes. After wipe-down sequence is completed, the conveyor and spacing wheels resume and system continues. Solid green light on light stack when system resumes.	Manually feed two products onto the conveyor after the spacing wheel closely together. Alternatively, trigger the clearance sensor with your hand in the middle of a wipe cycle.
VFD Fault	The conveyor drive has faulted.	Machine stops. Solid red light on light stack. Flashing red HEAD/DRIVE indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Shut down and lock out power to the system. Remove the fuse for the VFD. Recover power to the system and attempt to run.
204 Not Ready	Output from head. Possible head errors are listed in the 204/206 Service Manual under "Error Messages".	Machine stops. Solid red light on light stack. Flashing red HEAD/DRIVE indicator light on control panel. Alarm must be cleared by pressing the Alarm Reset button before restarting.	Rotate the rewind dancer arm clockwise to its end position and hold until the error occurs.
Safety Circuit (E/ Stop or Interlock)	An E/Stop has been pressed or the Interlock has been opened.	Machine stops. Power is cut to conveyor and spacing wheel drives. Air is dumped. Solid red light on light stack. Solid red HEAD/DRIVE indicator light on control panel. E/stop must be released, or interlocked door closed. Alarm must be cleared by pressing the Safety Reset button and the Alarm Reset button before restarting.	Press an E/Stop button or open the wipe-down station enclosure.

Barry-Wehmiller

1.6 Maintenance

1.6.1 General Maintenance

Following the suggested preventative maintenance schedule will ensure long machine life and excellent performance. Immediate replacement of faulty components and repair of problems will avoid unnecessary damage.

- Failure to follow a regular maintenance schedule will shorten the operating life of the equipment.
- The Labeler is fully adjustable, allowing for easy troubleshooting and maintenance.
- Use the proper tools when maintaining the Labeler.
- **TURN OFF** the main power to the Labeler before cleaning or adjusting the equipment.
- **DO NOT** operate, troubleshoot, or maintain the equipment while under the influence of any type of drug or alcohol.
- **DO NOT** use flammable or toxic cleaning fluids such as gasoline, benzene or ether when cleaning or maintaining the equipment.
- **DO NOT** use lubricants and spare parts not specified in this manual. Doing so will cause increased downtime, poor equipment performance and reduce the long term operating life of the machine.

1.6.2 Preventive Maintenance

Follow the preventative maintenance suggestions and instructions to ensure long machine life and excellent performance.

FREQUENCY	ACTIVITY	INSTRUCTION
Daily	Keep the Labeler clean and free of dust and dirt.	Use a lint cloth, a soft bristle brush and a mild detergent solution.
	Do an overall visual and audible inspection of the Labeler.	Look for hardware security and listen for unusual noises.
	Remove all adhesive buildup.	ONLY use Isopropyl alcohol. Clean both painted and unpainted metal surfaces.
	Check the rewind spindles.	Check for serviceability.
	Test Labeler by manually operating through one cycle (if applicable).	Check security and serviceability.
	Verify solenoid function.	Confirm LED operation.
	Inspect for air leakage.	Air leakage can be found by listening for noise along the pneumatic system.
Weekly	Inspect each sensor.	Verify the alignment and replace if required.
	Check condition of all solenoids.	Replace if required.
	Check all mounting screws and other hardware.	Verify tightness and adjust if required.
	Check operation of all electrical controls for serviceability.	Replace if required.
	Remove condensation from air filter.	Open the drain valve.
	Inspect air hoses.	Ensure hoses are not twisted or flattened.
Monthly	Check brake and feed roller for wear.	Replace if required.
	Check label dispensing edge and pad (if used) for serviceability.	Replace if required.
90-Day Service	Check all items listed above.	Check all items listed above.
Annually	Check DC motor brushes	Replace if required.



1.6.3 Troubleshooting

Problems listed below can usually be repaired by operating personnel. If these procedures fail to produce satisfactory results, contact your ACCRAPLY Labeling Equipment System Sales Engineer or Customer Service Representative immediately. See page i for contact information.

	PROBLEM	PROBABLE CAUSE	SOLUTION
1	Labels will not feed.	Machine not threaded properly.	Rethread (see Section 1.4.1 Threading Diagram on page 22).
		Machine not connected to power source.	Plug in connector for power.
		Product sensor out of alignment or adjustment.	Readjust sensor.
		Defective product sensor.	Check photo-receiver; check light source.
2	Labels feeding sluggishly.	Adhesive buildup on dispensing edge.	Clean dispensing edge (see Section 1.6.2 Preventive Maintenance on page 32).
		Inadequate pressure on driving rollers.	Adjust pressure set screws until slipping stops.
3	Labels feeding intermittently.	See Troubleshooting Items 1 and 2.	See solutions listed above.
4	Labels do not dispense, but	Worn dispensing tip.	Visually inspect tip. Replace if necessary.
	follow tape around tip.	Labels not releasing properly (tight adhesive, die cut, adhesive bleed).	Contact Accraply Sales Engineer (see Customer Service on page i).
5	Backing paper breaks.	Label roll wound unevenly.	Rewind label roll, making certain that same copy position is maintained.
		Lacquer-spotted backing paper.	Contact Accraply Sales Engineer (see Customer Service on page i).
		Adhesive buildup causes paper to break.	Clean adhesive from rollers, top of dispensing blade and sensor. (See Section 1.6.2 Preventive Maintenance on page 32)
		Backing paper is die cut with labels	Relieve all possible tension on paper or contact Accraply Sales Engineer (see page i, Customer Service).
		Rewind threaded improperly.	Rethread machine (see Section 1.4.1 Threading Diagram on page 22).



	PROBLEM	PROBABLE CAUSE	SOLUTION
6	Motor sounds "rough" or vibrates.	Overloaded motor caused by restriction of labels and/or backing paper as it passes through the machine.	Check all solutions listed under Items 2 and 5 above.
		Defective motor.	Replace motor.
7	Labels feed continuously.	Translucent labels (cannot be "seen" by label sensor).	Check label opacity and notify Accraply (see Customer Service on page i).
		Label sensor out of adjustment.	Adjust label sensor light and/or sensitivity.
8	Label roll rotates without stopping.	Unwind not adjusted properly.	Adjust unwind to provide more brake.
9	Label web sags between dispense tip and rewind after dispensing a label.	Rewind not adjusted properly.	Adjust rewind to provide more clutches.
10	Malfunction of	Machine not plugged in.	Plug in power connector.
	valve solenoid.	A fuse is blown.	Change the fuse.
		Open wiring.	Check for proper connection.
11	Improper equipment operation.	Air leakage.	Replace parts as necessary (gaskets, seals, and hoses). (See Recommended Spare Parts List on page ii)
		Malfunction of filter element.	Clean or replace the filter element.
		Condensation accumulation in air filter.	Remove condensation from air filter.
12	Labels double feed.	Missing labels on roll.	Inspect roll and contact Accraply if necessary (see Customer Service on page i).
		Label sensor out of adjustment.	Adjust label sensor light.





AUTOMATED TAMPER-EVIDENT SEAL APPLICATOR

SECTION 2: SYSTEM PARTS

Customer: UCB Manufacturing, Inc.

Machine Serial Number: MSN07411 Manual Revision #: R01 Revision Date: 5/21/13

241 Assembly List

EEL
NC
00
λL
Y
Y
√BLY
(204)
4/206
LER
o' lg
1
,



22 System Parts List & Drawings

MSN07411 - System Layout

ITEM	PART #	DESCRIPTION	QTY
1	080800-07411	INFEED, METERING WHEEL	1
2	600008-07411	stand, custom	1
3	600106-07411	PNU, ASSEMBLY 4 STATION	1
4	600107-07411	LIGHT, STACK	1
5	600606-07411	PNU, 1 STATION SMC 2100	2
6	600895-07411	CONTROL ,ELECTRICAL	1
7	603480-07411	GUIDE, RAIL ASSEMBLY	1
8	603805-07411	SQUARING, ASSEMBLY	1
9	603900-07411	PRODUCT, SENSOR ASSEMBLY	1
10	608888-07411	APPLICATOR, 204 RH	1
11	611111-07411	SENSOR, LOW LABEL ASSY (204)	1
12	613200-07411	SENSOR, CLEAR LABEL 204/206	1
13	619543-07411	GUARD, 20X PINCH ROLLER	1
14	621598-07411	BELT CONVEYOR 8''W X 10' LG	1
15	621699-07411	TURN, ASSEMBLY	1
16	621700-07411	WIPE, DOWN STATION	1
17	621701-07411	EJECT, BIN ASSEMBLY	1
18	621870-07411	GUARD, INFEED	1





080800-07411 - Infeed, Metering Wheels

ITEM	PART #	DESCRIPTION	QTY
1	40001	SCALE, 6 X .31 LH	8
2	50008	KNOB	4
3	50542	ROD, THREADED METRIC	4
4	50543	SPACER, BLOCK	4
5	50546	BRACKET, GUIDE RAIL	4
6	75410	SPACER, GUIDE RAIL MOUNT	4
7	80369	WHEEL, PRODUCT	2
8	80371	COLLAR, CLAMP .500	2
9	80374	rod, scale mount	4
10	80747	PLATE, TOP CASTING	2
11	86463	MOTOR, GEAR DC 43RPM 90VDC	2
12	91370	GUIDE, RAIL	4
13	101582	GUARD, BOTTOM	2
14	621737	PLATE, SPACING WHEEL MOUNT	2





600008-07411 - Stand, Custom

ITEM	PART #	DESCRIPTION	QTY
1	118707	CLAMP, CROSS	1
2	118723	FLANGE, BASE (2.75)	6
3	118725	SCREW, LEVELING 4.5"	5
4	118730	HANDLE, LOCK	2
5	118731	COLUMN, SHORT SLIDER	1
6	118733	KEY	2
7	118734	HOLDER, NUT	2
8	118735	CAP, END	2
9	118736	COLUMN, LONG SLIDER	1
10	118737	COUPLING, COLUMN	1
11	118739	ADAPTER, HEAD MOUNT ADJ	1
12	118765	CLAMP	3
13	118767	ROD, CLAMPING	2
14	118769	SPACER	2
15	118772	WASHER, THRUST	8
16	118773	BEARING, THRUST	4
17	118774	BEARING, OIL SLEEVE	2
18	600029	PLUG, 1/2 HOLE 37/64	4
19	600092	PIPE, PLUG	4
20	601414	POST, 20" LONG	2
21	605077	NUT, STAND ADJUST 5/8-11	2
22	605078	SCREW, FEED 5/8-11	2
23	605153	POST, 25.5" LONG	1
24	606170	POST, VERTICAL 28"	1
25	607927	PAD, TOGGLE	5
26	609059	CRANK HANDLE MOD	2
27	610088	BOLT, SHOULDER	4
28	616761	BEARING, SLEEVE	4
29	617023	BLOCK, CLAMPING PIECE	1
30	621707	BASE, CUSTOM WELDMENT	1
31	621557	CASTER, SWIVEL, NON-CORROSIVE	5





600106-07411 - Pnu, Assembly 4 Station

ITEM	PART #	DESCRIPTION	QTY
1	117056	VALVE 24VDC	4
2	117057	REGULATOR INTERFACE	4
3	117058	MANIFOLD	4
4	117059	CAP, END	1
5	117062	FILTER	1
6	600023	GAUGE, PRESSURE	1
7	600105	COVER, ELECTRICAL	1
8	600166	REGULATOR	1
9	603638	SENSOR, PRESSURE	1
10	607569	VALVE, LOCKING SHUT OFF, 3/8	1
11	621415	PLATE, PNU BACK 4STN MODIFIED	1
12	837539	VALVE, SOFT START & DUMP	1



Barry-Wehmiller

SYSTEM PARTS LIST & DRAWINGS

600107-07411 - Light, Stack

ITEM	PART #	DESCRIPTION	QTY
1	608415	POST, 60" LONG LIGHT STACK	1
2	118723	FLANGE, BASE (2.75)	1
3	620029	LIGHT STACK, GR, YEL, RED	1
4	620032	PIPE, LIGHTSTACK, 150MM	1
5	620522	STANDOFF, LIGHTSTACK, ADAPTER	1
6	620523	MOUNTING, BASE LIGHTSTACK	1
7	620770	ADAPTOR, BANNER TO POST	1





600606-07411 - Pnu, 1 Station SMC 2100

ITEM	PART #	DESCRIPTION	QTY
1	117056	VALVE 24VDC	1
2	117057	REGULATOR INTERFACE	1
3	117062	FILTER	1
4	600022	BASE, VALVE 4 WAY SINGLE	1
5	600460	PLATE, MOUNT 2100 SINGLE	1



Barry-Wehmiller

600895-07411 - Control, Electrical

ITEM	PART #	DESCRIPTION	QTY
1	7999	SIREN, 6-28 VDC	1
2	124124	MODULE, INPUT 16 DC	1
3	124125	MODULE, OUTPUT 16 DC	1
4	126363	PANEL, ENCLOSURE 36 X 36	1
5	129260	PLATE, "B-W ACCRAPLY" LOGO	1
6	141616	RELAY, 24VDC SPDT	1
7	145951	CONTROLLER, MOTOR FVD CRQ	1
8	146262	CONTROLLER, PLC PRQ	1
9	600006	BULB, 24 VDC, 1 WATT	7
10	600298	HOLDER, FUSE	6
11	600910	RELAY, 24 VDC	1
12	600912	RELAY, BASE, MY4	1
13	600913	SPRING, CLIPS	1
14	607080	SUPPLY, POWER 24 VDC 120W	1
15	608748	CABLE, CATEGORY 5 PATCH, 15'	2
16	608897	DRIVE, CHASSIS MOUNT DC MOTOR	2
17	608899	KIT, KNOB/DIAL	2
18	609896	resistor, 0.18(OHMS)	2
19	611571	BRACKET, DUAL POT MOUNT^	1
20	613653	JACK, ETHERNET CHASSIS MOUNT	1
21	615455	ENCLOSURE, 36 X 36 X 10 SS	1
22	615997	SWITCH, ETHERNET, 5PORT	1
23	616204	PLUG, MALE STR/BLADE YELLOW	1
24	616579	CONTACT BLOCK, 1N/O	1
25	616933	BUTTON, STOP, OPERATING HEAD	1
26	616934	BLOCK,CONTACT,ILLUM. BODY, NC	1
27	616935	BUTTON, START, OPERATING HEAD	2
28	616936	BUTTON, PUSH, AMBER, ILLUM	1
29	616937	BLOCK,CONTACT,ILLUM. BODY, NO	3
30	616941	SWITCH, SELECTOR	1
31	616942	light, lens red (lamp)	3
32	616948	LIGHT, UNIT	3
33	616950	BLOCK, CONTACT NO	1
34	617198	OPERATOR, MUSHROOM 40MM	1
35	617203	COLLAR, PUSHBUTTON	1
36	617230	MODULE, RED LED, 24-120V	1
37	617396	BLOCK, CONTACT, 2 NC	1
38	617758	ENCLOSURE, REMOTE E-STOP	1
39	617759	BLOCK, CONTACT NO	1
40	617760	BLOCK, CONTACT NC	1
41	619799	RELAY, SAFETY MONITORING 24VDC	1
42	620562	Contactor, safety 24VDC 12 AMP	2
43	620564	DISCONNECT, FUSED KIT	1

600895-07411 - Control, Electrical

NO DRAWING AVAILABLE



603805-07411 - Squaring, Assembly

ITEM	PART #	DESCRIPTION	QTY
1	117068	SENSOR	2
2	602678	FLOW, CONTROL	2
3	603676	MOUNT, FOOT	1
4	603806	ACTUATOR, ROTARY	1
5	603808	mounting, switch dsr	1
6	618703	YOKE, SWING ARM	1
7	622267	ARM, SQUARE	1
8	622268	mount, swing arm	1





603480-07411 - Guide, Rail Assembly

ITEM	PART #	DESCRIPTION	QTY
1	601410	BLOCK, SET ADJUST	12
2	601829	RAIL, MOUNTING	1
3	602760	PLATE, ESTOP SUPPORT RAIL	1
4	602765	BLOCK, E-STOP RAIL	1
5	604647	RAIL, MTG (REW 601829 TO 10")	2
6	618390	SCALE, 3"	24
7	621045	SPACER, GUIDE RAIL	12
8	621703	RAIL, GUIDE	2
9	621705	CLAMP, RAIL WITH 3.5 POST	12
10	621706	CLAMP, SENSOR MOUNT	12
11	621744	RAIL, MOUNTING	1
12	621745	RAIL, GUIDE	1
13	621746	RAIL, GUIDE	1
14	621747	RAIL, MOUNTING	1
15	621748	RAIL, MOUNTING	1
16	621749	RAIL, GUIDE	1
17	621750	RAIL, GUIDE	1
18	621887		1
19	601410	BLOCK, SET ADJUST	2
20	601409	CLAMP, SENSOR MOUNT	2
21	601404	CLAMP, SENSOR MOUNT 7.25	2
22	601405	ROD, LONG	2





603900-07411 - Product, Sensor Assembly

ITEM	PART #	DESCRIPTION	QTY
1	101335	REFLECTOR, 2 X 2 SQUARE	5
2	105039	SENSOR, RETRO-REFLECTIVE	4
3	601408	MOUNT, PRODUCT SENSOR LOLYPOP	5
4	601409	CLAMP, SENSOR MOUNT	5
5	601410	BLOCK, SET ADJUST	10
6	612990	FLAG, SENSOR MOUNT	4
7	613727	MOUNT, REFLECTOR FLAG	5
8	614164	mount, sensor	1
9	621597	SENSOR, RETRO REFLECTIVE	1





608888-07411 - Applicator, 204 RH

ITEM	PART #	DESCRIPTION	QTY
1	118695	SUPPORT, SIDE PLATE	1
2	152431	DISK, 12" OUTER	1
3	600773	BLOCK, TENSION ADJUST 3"	1
4	611573	HEAD, 204 RH W/ MOUNT KNUCKLE	1
5	611640	EDGE, FIXED L-SHAPE DISPENSE	1
6	612586	ADAPTER, L SHAPE FIXING 160	1
7	619538	ADAPTER, CUSTOM 6" CORE	3
8	621893	WIPE, SQUEEGEE	1
9	HMS2540020A20000	M5 X 0.8 X 20 SHCS SS	2
10	HMS2550012A20000	M6 X 1.0 X 12 SHCS SS	1





611111-07411 - Sensor, Low Label Assy (204)

ITEM	PART #	DESCRIPTION	QTY
1	600260	sensor, omron	1
2	611480	BRACKET, LOW LABEL SENS. MTG.	1



619543-07411 - Guard, 20X Pinch Roller

ITEM	PART #	DESCRIPTION	QTY
1	615504	GUARD, PINCH ROLLER	1
2	619540	GUARD, PINCH ROLLER SIDE 1	1
3	619541	GUARD, PINCH ROLLER SIDE 2	1
4	619542	GUARD, PINCH ROLLER SIDE 3	1
5	HMB2510010A20000	M3 X 0.5 X 10 BHSCS SS	6
6	HMS2510012A20000	M3 X 0.5 X 12 SHCS SS	2





621598-07411 - Belt Conveyor 8"W x 10' Lg

ITEM	PART #	DESCRIPTION	QTY
1	2959	BELT, TIMING 187L050	1
2	600207	ADAPTER, ENCODER	1
3	600253	RING, RETAINING SSTL 0.5 SHAFT	6
4	603089	PULLEY ,TIMING 16LF050	2
5	603574	COVER, DRIVE INNER	1
6	603575	COVER, DRIVE OUTER	1
7	611069	BAR, CROSS 8"	8
8	611836	ENCODER, 1000 PPR PNP M6 SHAFT	1
9	615263	MOUNT, MOTOR AC	1
10	615420	PLATE, BOTTOM IDLER MOUNT	1
11	615421	PLATE, BOTTOM LEGS MOUNT	2
12	615422	PLATE, BOTTOM MOUNT DRIVE	1
13	615424	COVER, BOTTOM IDLER	1
14	615428	ROLLER, DRIVE CONVEYOR	1
15	615429	ROLLER, CONVEYOR IDLE	1
16	615432	Shaft, conveyor idle	1
17	615433	Shaft, conveyor drive	1
18	615471	SHAFT. ROLLER BELT	3
19	615472	ROLLER, BELT TENSIONER	6
20	615473	COVER, CONVEYOR END	2
21	620136	mount, transfer	2
22	621585	PLATE, ROLLER TRANSFER	8
23	621711	PLATE, TOP 10 FT	1
24	621712	PLATE, CONVEYOR SIDE RH -10 FT	1
25	621713	PLATE, CONVEYOR SIDE LH -10FT	1
26	621714	COVER, BOTTOM MIDDLE	1
27	621715	COVER, BOTTOM DRIVE	1
28	621736	BELT, CONVEYOR 8"W X 120"L	1
29	621767	SEW, GEARDRIVE	1
30	840063	ROLLER BEARINGS	4
31	621873	PLATE, TOP 10 FT	1




621699-07411 - Turn, Assembly

ITEM	PART #	DESCRIPTION	QTY
1	601405	ROD, LONG	1
2	601408	MOUNT, PRODUCT SENSOR LOLYPOP	1
3	601409	CLAMP, SENSOR MOUNT	1
4	601410	BLOCK, SET ADJUST	2
5	614551	CYLINDER	1
6	621739	BLOCK, 90 TURN	1
7	621740	PAD, EJECT	1
8	621769	mount, cylinder dsnu	1





621700-07411 - Wipe, Down Station

ITEM	PART #	DESCRIPTION	QTY
1	89792	HANDLE	2
2	109871	CONTROL, FLOW REG OUT 1/8	6
3	601606	CYL, PNU	2
4	602493	SWITCH, REED	6
5	605708	CYLINDER, AIR-DUAL ROD	1
6	618122	Switch, guard	1
7	618390	SCALE, 3"	2
8	621591	MOUNT, CYL	1
9	621708	PLATE, TOP	1
10	621709	WIPE, DOWN	2
11	621738	BLOCK, FLAT MOUNT IMPERIAL	4
12	621740	PAD, EJECT	1
13	621741	VISION, CHECKER	2
14	621742	BRACKET, CHECKER MOUNTING	2
15	621751	HINGE, COVER 28"	1
16	621752	MOUNT, VISION CHECK	1
17	621753	Stop, gate	1
18	621755	PLATE, TOP	1
19	621756	side, station	2
20	621757	COVER, BACK	1
21	621758	DOOR,	1
22	621759	SPACER	1
23	621760	MOUNT, GATE CYLINDER	1
24	621761	PLATE, WIPE MOUNT	1
25	621762	BAR, WIPE STATION MOUNT	4
26	621763	COVER, TOP	1
27	621768	rod, adjust	2
28	621769	mount, cylinder dsnu	1
29	621866	CYLINDER	1
30	621867	bracket, safety switch	1
31	621868	GUIDE, PRODUCT TOP	2
32	621894	MOUNT, WIPE	2





621701-07411 - Eject, Bin Assembly

ITEM	PART #	DESCRIPTION	QTY
1	601234	REFLECTOR, 2 X 2	1
2	621594	BIN, EJECT	1
3	621595	COVER, EJECT BIN	1
4	621597	SENSOR, RETRO REFLECTIVE	1
5	621743	mount, sensor	1





621870-07411 - Guard, Infeed

ITEM	PART #	DESCRIPTION	QTY
1	601404	CLAMP, SENSOR MOUNT 7.25	4
2	601410	BLOCK, SET ADJUST	4
3	621871	GUARD, INFEED	1
4	621869	SPACER	2







AUTOMATED TAMPER-EVIDENT SEAL APPLICATOR

SECTION 3: ELECTRICAL DRAWINGS

Customer: UCB Manufacturing, Inc.

Machine Serial Number: MSN07411 Manual Revision #: R01 Revision Date: 5/21/13

341 Electrical Drawings

ELECTRICAL

Drawing Number	Drawing Title
200000-07411	Interface, System (Sheet 1 of 9)
200000-07411	Interface, System (Sheet 2 of 9)
200000-07411	Interface, System (Sheet 3 of 9)
200000-07411	Interface, System (Sheet 4 of 9)
200000-07411	Interface, System (Sheet 5 of 9)
200000-07411	Interface, System (Sheet 6 of 9)
200000-07411	Interface, System (Sheet 7 of 9)
200000-07411	Interface, System (Sheet 8 of 9)
200000-07411	Interface, System (Sheet 9 of 9)

PNEUMATIC

Drawing NumberDrawing Title621593Pnu, Schematic









200000-07411 - Sheet 3 of 9



200000-07411 - Sheet 4 of 9







200000-07411 - Sheet 7 of 9



200000-07411 - Sheet 8 of 9











AUTOMATED TAMPER-EVIDENT SEAL APPLICATOR

SECTION 4: APPENDIX

Customer: UCB Manufacturing, Inc.

Machine Serial Number: MSN07411 Manual Revision #: R01 Revision Date: 5/21/13