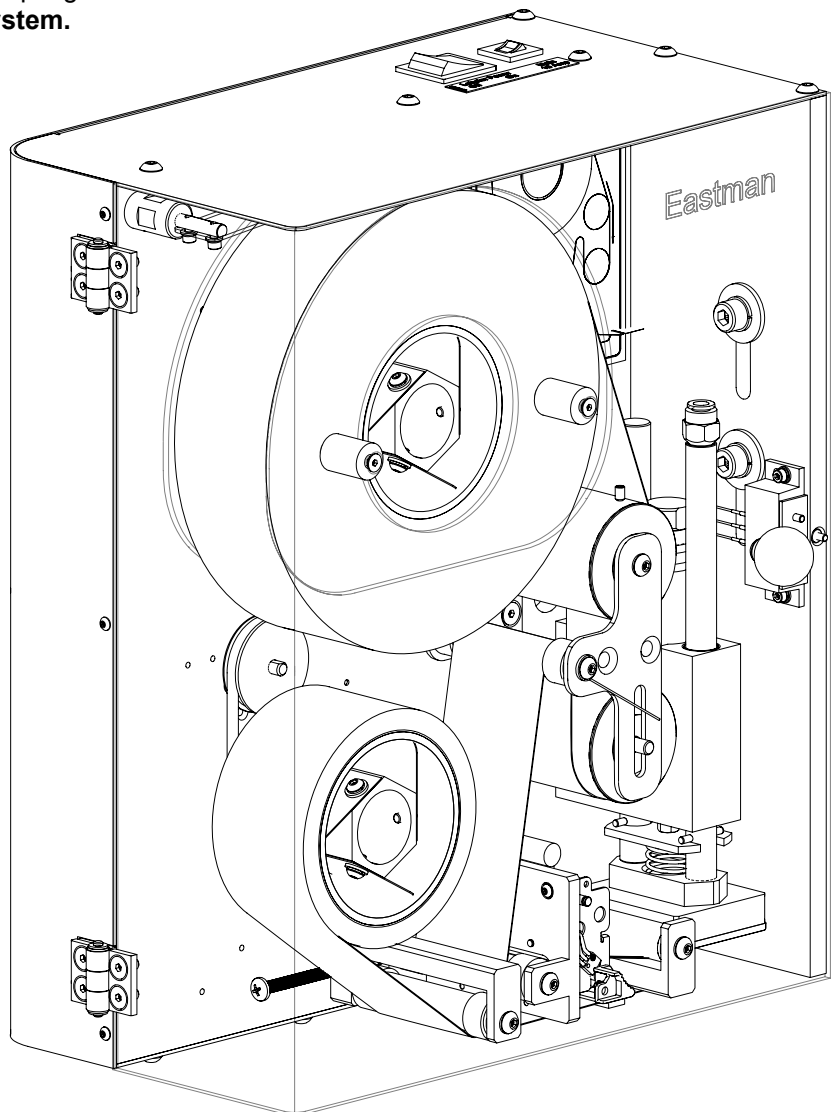# Eastman®

THE EASTMAN®
EasiLabel
Adhesive Labeling System

Operation Manual & Illustrated Parts List

Please read completely before attempting
to operate your new **EasiLabel System.**

Technical Support:
1-800-872-5595

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2" Label Width Configuration Shown

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Table of Contents

IMPORTANT

The purchaser must instruct all operators on the proper use of this equipment. All standard industrial safety measures and equipment should be provided to protect the operator. Operators must be cautioned that improper or careless use of this equipment may cause personal injury. If you do not have qualified operators to instruct new persons, contact your EASTMAN sales representative or EASTMAN factory direct.

Electrical connections and servicing to this equipment should be made by a qualified electrician who is familiar with applicable codes and regulations. Disconnect this equipment from electrical power source before proceeding with any disassembly for adjustment or repair.

Safety Information

Throughout this manual, safety information is presented by the use of the terms WARNING, CAUTION, ELECTRICAL HAZARD, and NOTE. These terms have the following meanings:

⚠ WARNING

A warning contains critical information regarding potential safety hazards that can occur during proper use or misuse of the machine. Failure to follow these procedures may result in serious personal injury to the user.

⚠ CAUTION

A caution contains instructions for the use or maintenance of the machine. Failure to follow these procedures may result in damage to the machine.

⚠ ELECTRICAL HAZARD

An electrical hazard calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond an Electrical Hazard.

Supplementary information may be given in a Note.

EasiLabel System Overview

The Eastman EasiLabel system is a next generation Eastman labeler as an optional gantry-mounted upgrade for the conveyor *(C3)* and static *(S3)* table series. The system utilizes permanent or removable adhesive labels in a variety of sizes to print, and place, directly onto patterned cutouts. The EasiLabel is available in 2" and 4" roll widths, this allows for more flexibility during purchasing that will help best suit the needs for the systems primary application purposes. Label data comes directly from the cut file (text and/or barcode) and is thermally printed onto the label before application to the material. Eastman's label system reduces the time and effort required to manage cut pieces, and helps bring an overall organization to your workflow.

Before beginning operation, it is important that you carefully read and follow the instructions in this manual in the same sequence in which they are presented. Best results will be reached through a strong familiarization of the hardware and its operating system. Initial adjustments during set-up will be critical in the EasiLablel's performance.

Safety and Indemnification

During the life of the machine, the purchaser agrees to provide to all machine users (including its own employees and independent contractors) all relevant safety information, including warning labels and instruction manuals. The purchaser also agrees to maintain the safety features and working condition of the machine, and to adequately train all users in the safe use and maintenance of the machine. The purchaser agrees to defend, protect, indemnify, and hold Eastman Machine Company and its subsidiaries harmless from and against all claims, losses, expenses, damages, and liabilities to the extent that they have been caused by the purchaser's failure to comply with the terms and instructions of this manual.

General Safety Precautions

⚠ WARNING

- This machine is equipped with very sharp and dangerous tools. Keep hands, arms, and hair away from the cutting area and drive system at all times. Safety gloves, glasses, and appropriate clothing may prevent serious personal injuries.

- Disconnect the power supply to the machine when it is not in use or during routine maintenance, including cleaning and lubrication.

- The purchaser must instruct all operators in the proper use of the machine according to the instructions in this manual. This training must include instruction on the potential safety hazards arising from the use or misuse of the machine. In addition to such training, the purchaser should provide written work instructions as necessary to ensure correct use of the machine for specific cutting and spreading applications.

- Do not modify this machine or disable safety features. Unauthorized modification may result in serious personal injuries to the user. Electrical connections to this machine must be made by a qualified electrician familiar with applicable codes and regulations.

- Safety labels must be kept clean and legible at all times. Call the Eastman Machine factory to order replacement labels.
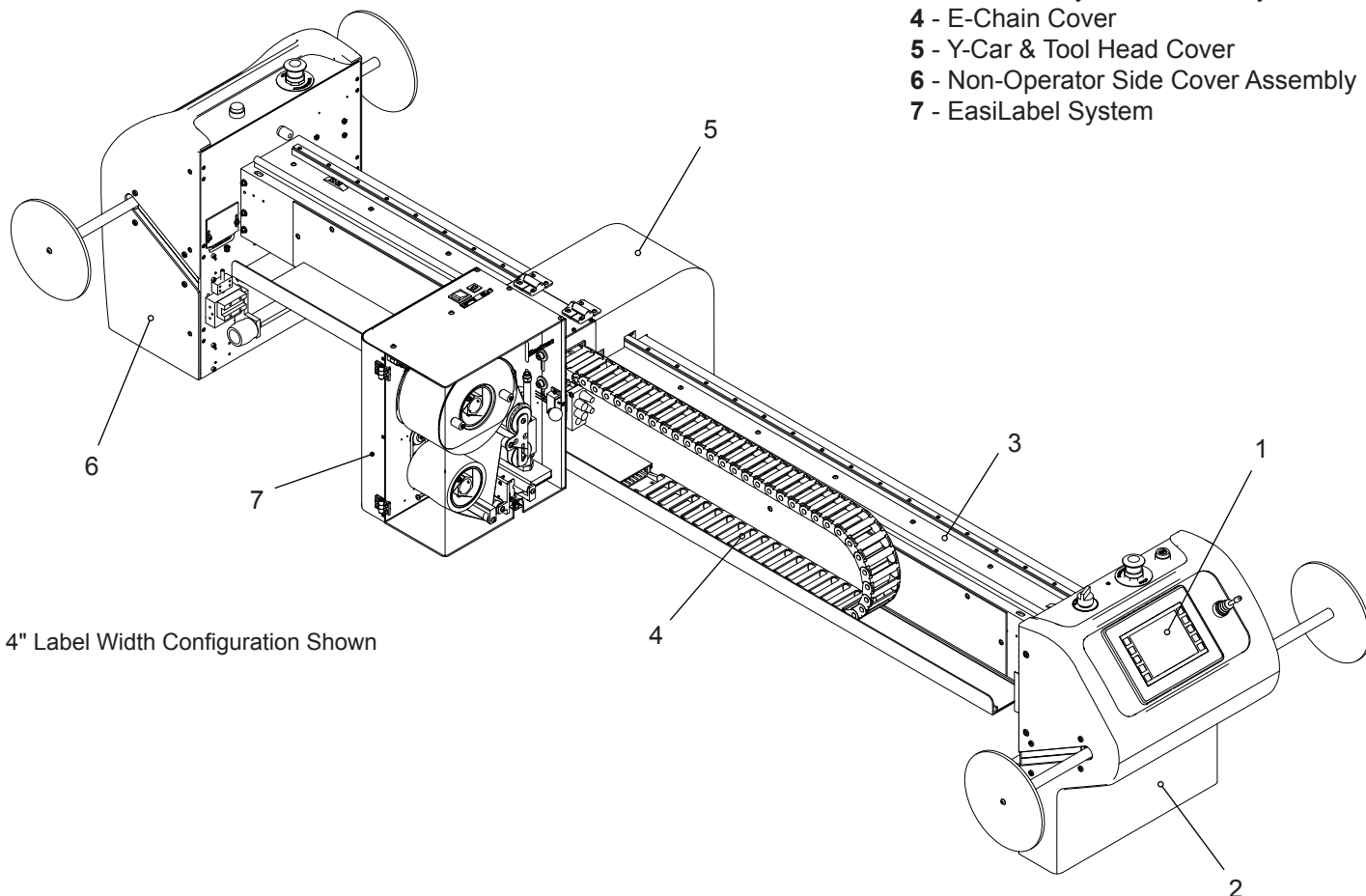
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Familiarization
Overall Gantry Layout with EasiLabel

1 - UIT(User Interface Terminal)
2 - Operator Side Cover Assembly
3 - Main Gantry Tube Assembly
4 - E-Chain Cover
5 - Y-Car & Tool Head Cover
6 - Non-Operator Side Cover Assembly
7 - EasiLabel System

4" Label Width Configuration Shown

Introduction

The Eastman EasiLabel system, as shown above, conventionally mounts directly to the back of the Y-Car with the help of a simple bracket mounting kit to maintain optimal functionality of your tool heads. With the mounting kit in place, (see pg. 13), the labeler is supported by four bolts fastened to the back of the Y-Car for easy connection and removal of the system.

Apart from a detailed parts description of the machine, this manual will also provide instructions for using the EasiLabel from a software stand point. The system runs on Eastman's branded cutting software, EastmanPRO.

This labeling system takes a TEXT entity from a drawing, and then replaces it with a physical label. Additionally, other information on the label field can be added as desired, such as fixed text, operator input text, barcode representations of text, and/or external data linked to a file. This gives the EasiLabel system a wide variety of printing layout options that best suits the needs of the desired work-flow.

EasiLabel Familiarization

Main Frame Assembly/ Labeler Enclosure

On/Off Switch

Circuit Breaker Switch (10 Amp)

Label Threading Diagram Reference

Label Roll Sensor

Gantry Mounting Kit Hardware

Payout Assembly

Rewind Assembly

Roll Tensioning Assembly

Core-Grip Assembly

Label Tamp Transfer Assembly

Label Tamp Applicator

Peel-Off Assembly

Take-Off Label Roll

Printer head Position Adjustment

Rewing Guide Assembly

Labeler Printing Head
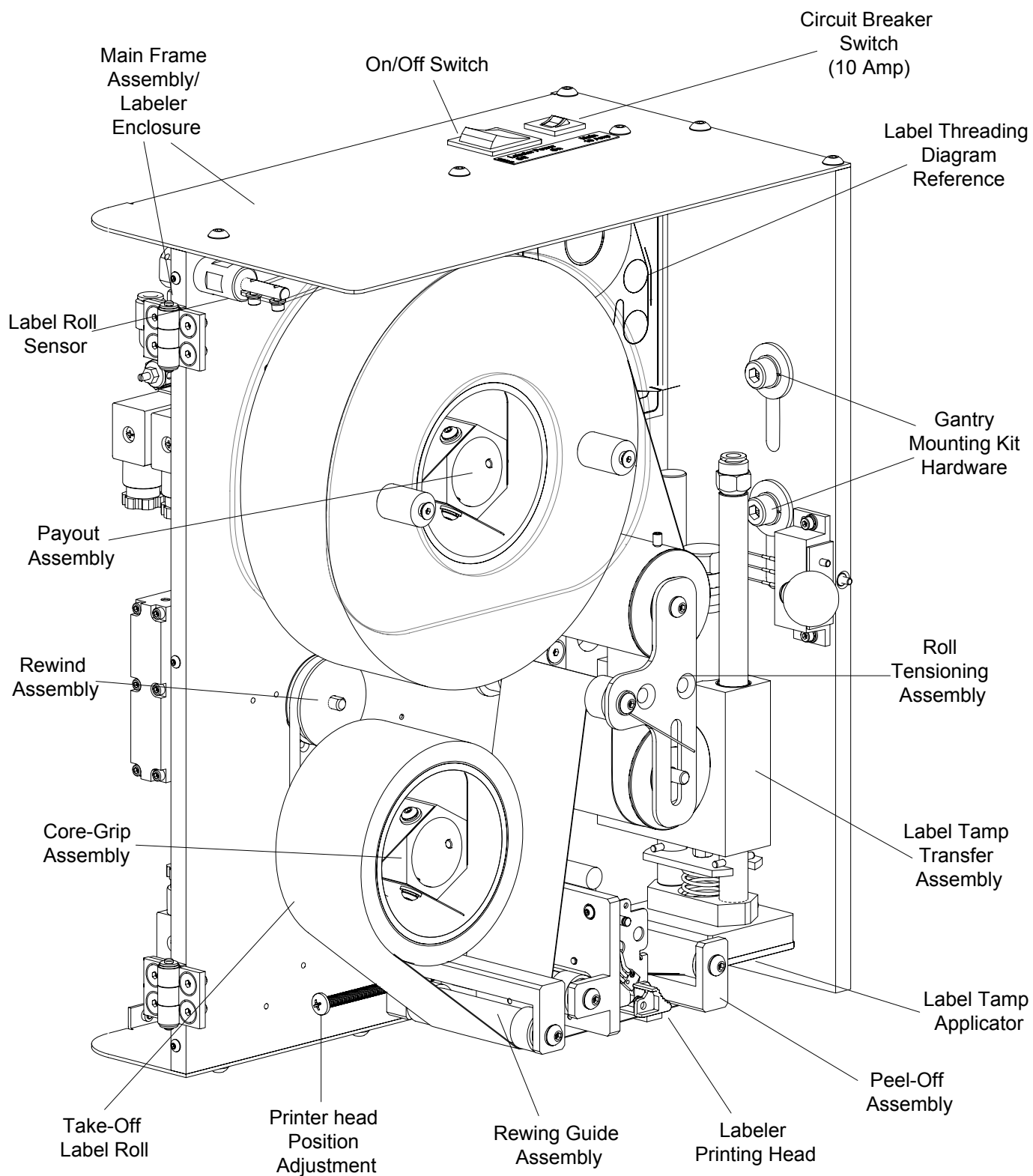
Note: Full Main Frame & Cover Assembly (68-26483) not shown in view, see page 14.

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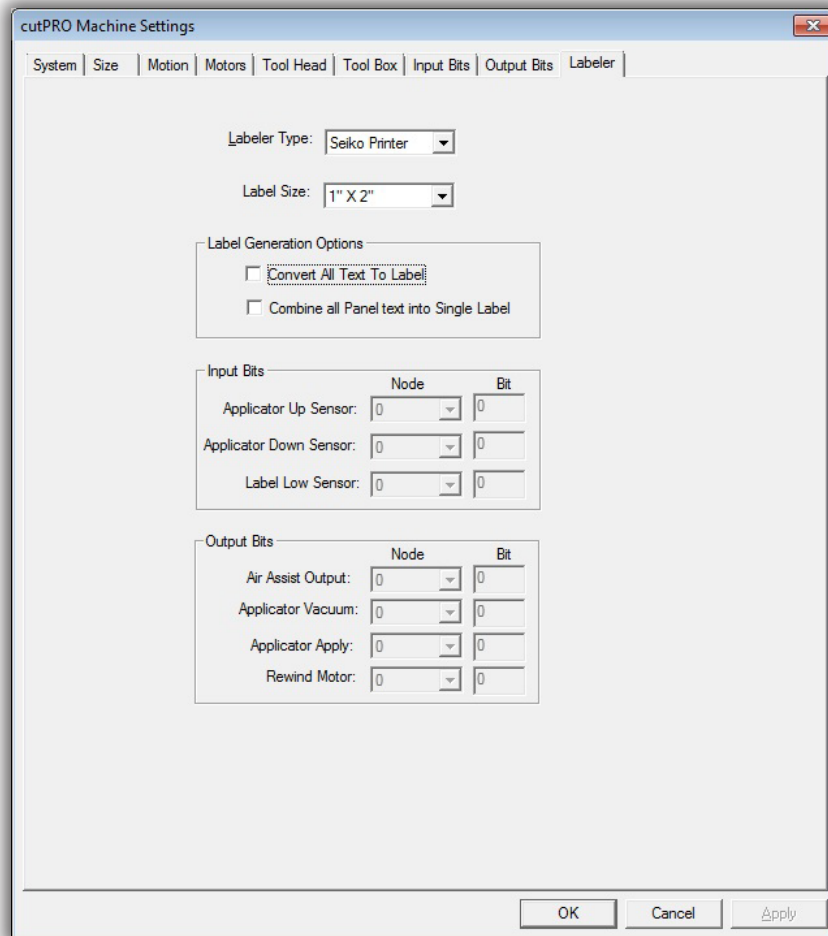
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EasiLabel Setup

When the *Labeler* option is checked in EastmanPRO under the CutPro menu > Machine Settings > *System* tab, it notifies the system that the EasiLabel is physically attached to the machine.

This will display an additional tab named *Labeler,* also found on the Machine Settings page (shown in ***Figure A***).

The physical labeler type and size are controlled directly from this tab, along with the options for processing the text entities when editing drawing files.

The *Convert All Text to Label* option will covert all drawing entities into labels. Otherwise only text articles on the layer titled *LabelLayer* will become the labels.

The *Combine all Panel text into Single Label* will group text from a Panel (PANO).

(Figure A)

Understanding Label Design Files

EastmanPRO uses label design, or configuration files, to specify what information is printed on the labels. These file are displayed with (.lbl) extensions.

When a drawing file is opened, it will use the default label configuration for the drawing, unless a configuration file with the same name as the drawing is found within the drawing directory.

The default configuration file is *"plotter.lbl"* and should reside in the same directory as the EastmanPRO application.

For example: If a file *C:\text.cmd* is opened and the label configuration file, *C:\text.lbl* exists, it will be used. Otherwise the default *plotter.lbl* file will take precedence.

Label configuration files are developed using the *Label Designer* integrated in the EastmanPRO software, (shown in ***Figure B***).
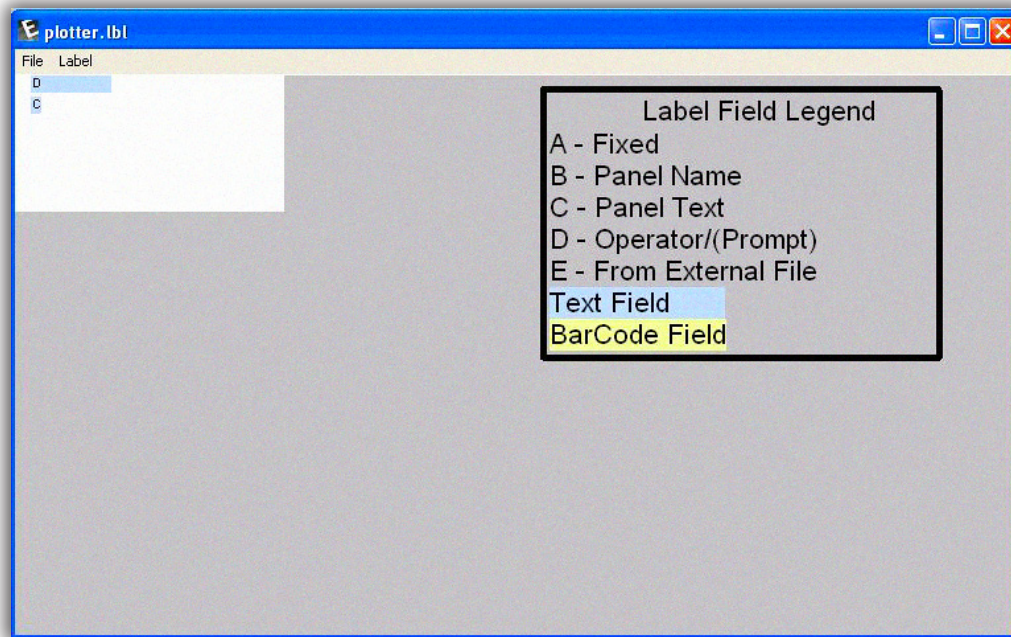
(Figure B)

EastmanPRO Label Designer

The EastmanPRO *Label Designer* is used to design all label configuration files. It can be accessed under the CutPRO drop down menu.

The layout for the current label shown above (*Figure B*), is displayed in the *Label Designer* interface. The white box represents the physical label and any printable articles that it may contain. The location of each printable entity is specified in the *Label Field Legend* dialog box. This is indicated by a the blue and yellow rectangles. *Text Fields* are shown in blue, while *Barcode Fields* are shown in yellow. The height and width of each rectangle is meant to indicate the relative size of each corresponding field. In the case of the *Barcode Field*, the height of the yellow rectangle includes any human readable integrated (HRI) text included with the barcode symbol itself. The label legend is designed to act as a visual aid to help display where the physical label field gathers its data from.

The *Label Designer* program saves the label as an (*.ascii*) text file. This text file is then used by EastmanPRO to generate, process, and print the user specified format that was created in the *Label Designer* window.

File Menu

The File menu includes basic options familiar to Microsoft Windows based applications. The column to the right lays out these options and their functionality.

New

The New option erases the current label data and creates a new label using default settings. If the current label settings were not saved, a notification will remind the user.

Open

The Open option displays the standard File Open dialog box allowing the user to specify the name of any existing label files. The specified file is read into memory, and the label layout is displayed in the label print window. If the previous label settings were not saved, a notification will remind the user.

Save

The Save option is used to save the settings of the current label to a file. If no filename is associated with the label entity, a Save As dialog box will be displayed to allow the user to specify the name and location of the label file. The default filename extension for label files is (.lbl).

Save As

The Save As option saves the settings of the current label entity to a new file. The standard Save As dialog box is displayed to allow the user to specify the name and location of the new label. The default filename extension for label files is (.lbl).

The *Print* option is used to output the labels contents to the system printer.

Exit

Exits the Label Designer.

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Label Menu

The Label Menu contains options used to modify the contents and layout of the currently opened label.

Label Options Window

The *Label Options Window* displays a dialog box within which the user may specify general label layout and printing parameters. As shown in (**Figure C**).

Label Layout

The label *Width* and *Height* are specified in centimeters, and should correspond with the label size currently loaded in the system printer. When designing a new label, these fields will be set to the size specified on the CutPro > Machine Settings > Labeler tab.

The *Left Margin* specifies how far from the left edge of the label printing will start. This distance is also determined in centimeters.

In order to print a label upside-down, check the *Rotate 180 deg.* check box.

Feed Method

Thermal printers ordinarily support two methods of feeding label paper. The *Marker Search* method utilizes a registration mark on the paper roll. The *Search Distance* specifies the maximum distance that the printer will feed paper in search of the registered mark. The *Feed Distance* is the amount that the printer will feed the paper after the registration mark has been located. This distance is used to help align text at the top of the label.

The *Page Feed* method of feeding label paper relies on fixed label spacing which must be specified in the *Page Length* setting. Each time a form feed character is sent to the printer, the printer feeds the paper roll until the top of the next page (defined by the page length) is reached. This is similar to the mechanism used in conventional printers by using continuous form or "fanfold" paper.

The *Labels to Pre-feed* setting indicates how many labels exist between the print head and the label applicator. This will keep printed labels on a file in synch with their position as they are "printed ahead" of time by the number of pre-feed labels.

Label Dump Option specifies how to dispose of the pre-feed labels. The only option currently supported is *Paste on waste Label,* which will apply the pre-feed labels under the first valid label in a drawing file.
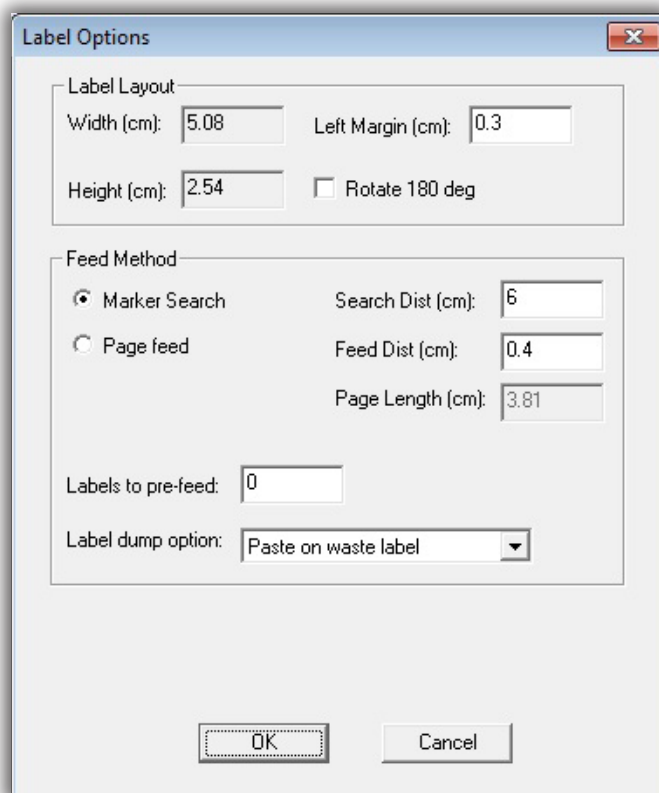
(Figure C)

Label Fields Window

The *Label Fields Window* displays a dialog box used to manipulate the text and barcode fields of the currently opened label. As shown in (**Figure D**).

The currently selected label field is shown in the *Field* control combo-box in the upper left. All settings displayed in the dialog box pertain to the currently selected field. Once all field changes have been made, click the *OK* button to save the settings. Click the *Cancel* button to cancel changes made to all fields (not only the currently selected field).

Click the *Add* button to add a new field to the label. A dialog box is displayed to allow entering the name of the field. Duplicate names are not allowed. Also, the name may not contain any spaces.

Click the *Delete* button to remove the currently selected field from the label.

(Figure D)

The *Line Number* and *Position* settings specify the location of the field within the label. Since the printer adjusts the height of each printed line based on the height of the largest font used within that text line, the horizontal positioning of individual fields is limited. The top line of a label is line 1. Any blank lines within a label are treated as standard height of 16pt font lines, which is equivalent to about 3mm of blank space. The *Position* setting is the distance from the left margin as specified in the *Label Options* window (**Figure C**). It is equivalent to the distance from the left edge of the label only if the left margin setting is zero.

The *Source* combo-box contains a list of available text sources for the field. The available text sources are: *Fixed, Panel Name, Panel Text, Operator/(Prompt)* and *From External File*. The last source option is only available if the *Use External Data* option is checked in the *External Data* dialog box (**Figure E**). The *Fixed* source uses the text entered in the *Text* edit box when printing the label field. This source option should be used for all fields when developing a test label; all other options are meant to be used when developing a label file (*.lbl file) for use when printing. The *Panel Name* option causes the name of the panel, or part found in the drawing file, to be printed in the field. The *Panel Text* option prints the contents of a text entity found in the panel. The text entity is identified by entering its corresponding sequence number in the *Item#* edit box. The *Operator/(Prompt)* source indicates that the contents of the field will be designated by the operator when the drawing file is being prepared to be cut. The *Text* edit box is used to enter the edit box label that is displayed.

If the *From External File* source is selected, the field's contents are obtained from an external data file defined in the *External Data* dialog box (**Figure E**). Use the *Item#* edit box to specify the column or line item number of the field text within the external file. This source option is only available if the *Use External Data* option is checked in the *External Data* dialog box (**Figure E**). The external data file must have the same name as the drawing file.

The *Max Char* setting is used to specify the extent of the field in the label layout drawing and on the printed label. In the case of a *Fixed* source field, the *Text* string is truncated before printing if the string is longer than the *Max Char setting*. If the *Text* string is shorter than the *Max Char* setting, it is padded with spaces prior to printing. For all other source options, the name of the source is used as the field text. The name is truncated or padded with spaces, as required. For text fields, one of eight possible *Font* styles may be selected. The text may also be *Boldface* or *Underlined* with designated check boxes. The italics and negative options are permanently disabled, but will be included in later releases the software.

If a *Barcode* field is desired, one of seven available barcode types may be selected. Select one of the available locations for the human readable interpretation (HRI) text associated with the barcode. There is some built in validation of bar code entries, but users should be familiar with the limitations of certain barcode types. Also, *Barcode* fields must persist on their own line in the label file.

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Using External Data

The *External Data* option displays a dialog box used to specify the format of a text file which contains data for one or more label fields. These fields must have their *Source* set to *From External File*. The *Use External Data* option must be checked to enable use of an external text file for label text. As shown in (**Figure E**).
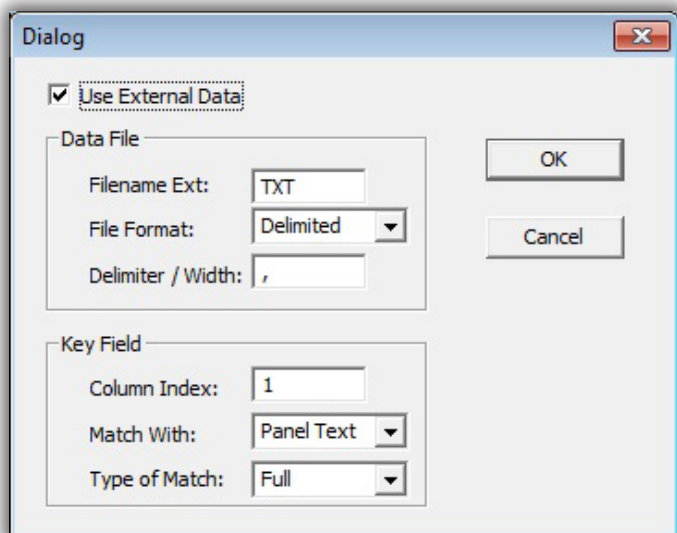
(Figure E)

Enter the filename extension of the external text file in the *Filename Ext* text box. The base filename of the external text file must be the same as the name of the corresponding drawing file. The *File Format* combo-box allows selection of a *Fixed Width,* or a *Delimited* option. If the external text file consists of fixed width columns, enter the column width in the *Delimiter / Width* text box. If the external text file consists of variable length, delimited text, enter the delimiter character in the *Delimiter / Width* text box. The most frequently used delimiter character is the comma.

The *Key Field* settings identify the entry within each line of the external text file that contains the text which specifies the drawing panel or part that corresponds to that line. The *Column Index* specifies the sequential index of the text entry within a line of text in the external file. The *Match With* combo-box is used to select the source of the text which must match the key field text (at *Column Index*) found in the external file. The *Panel Name* option is used if the key field text specifies the drawing panel or part name. The *Panel Text* option is used if the key field text matches the contents of the first text entity found in the drawing panel.

Cable Kits

X-Axis Cable Kits

Eagle C3 with Labeler
Assembly Number : 96-26160-X

Cable No.	Description
31-27295-CL	X-Axis Labeler Power Supply
31-27072-CL	Labeler Serial Interface

Eagle S3 with Labeler
Assembly Number : 31-26797-TL

Cable No.	Description
31-27295-CL	X-Axis Labeler Power Supply
31-27072-CL	Labeler Serial Interface

Eagle C125 with Labeler
Assembly Number : 96-26212-MSL

Cable No.	Description
31-27295-CL	X-Axis Labeler Power Supply
31-27072-CL	Labeler Serial Interface

Eagle S125 with Labeler
Assembly Number : 96-26210-MSL

Cable No.	Description
31-27295-CL	X-Axis Labeler Power Supply
31-27072-CL	Labeler Serial Interface

Y-Axis Cable Kits

FOR:
Eagle C3 with Labeler
Eagle S3 with Labeler
Eagle C125 with Labeler
Eagle S125 with Labeler
Assembly Number : 96-26219-MS

Cable No.	Description
31-26382-15	DB15 Cable
31-26371-15	DB9 Cable
31-27071-15	Labeler Power Cable
27-02996-1	Tubing, Air, 1/4" Light Blue

Label Threading Diagram
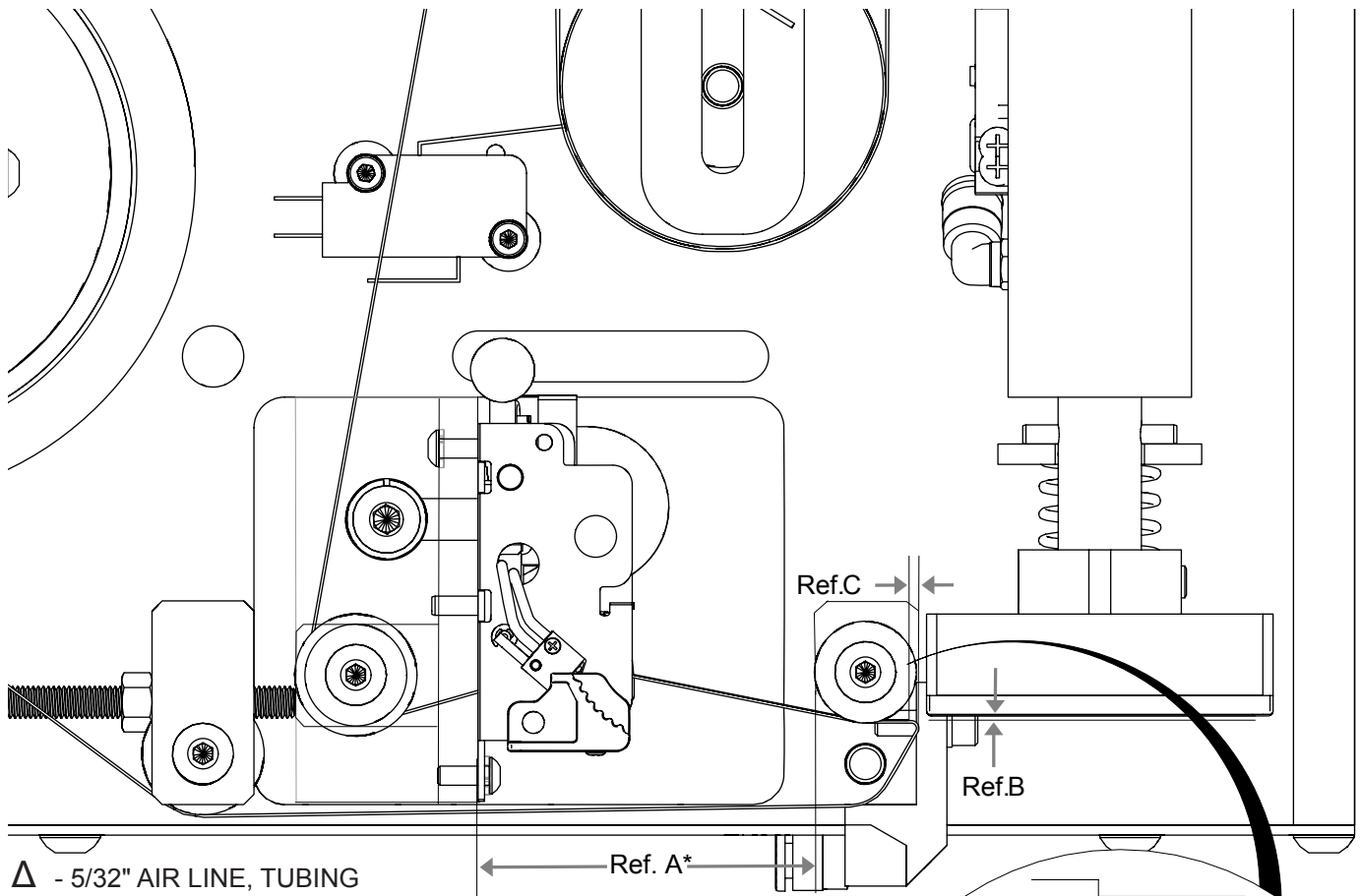
Δ - 5/32" AIR LINE, TUBING

O - 1/4" AIR LINE, TUBING

Reference A* - See Table for Recommended Distance per Label
    Size Relationship.
Reference B - Distance Shown between Peel Edge & Tamp Plate.
    Gap must be at a distance from .03" to .04"
    for proper Label Roll feeding.
Reference C - Recommended Distance approx. 1/16" from
    edge of label to corner edge.
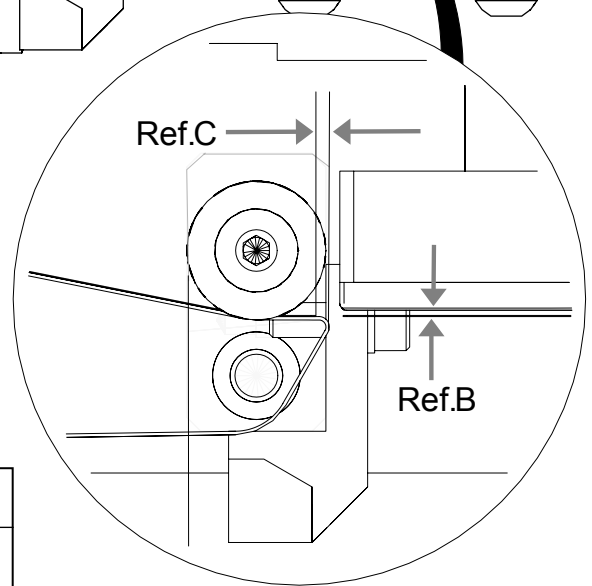
Table Reference A*	
Label Size *(Length)*	**Set-up distance for Dimension *"Ref. A"***
5/8"(0.625")	**TBA**
1/2"(0.50")	**1.39"**
1.0"	**1.25"**

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EasiLabel Pictorial Index

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Assembly/
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Tensioning
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Printer head
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See Pg. 17
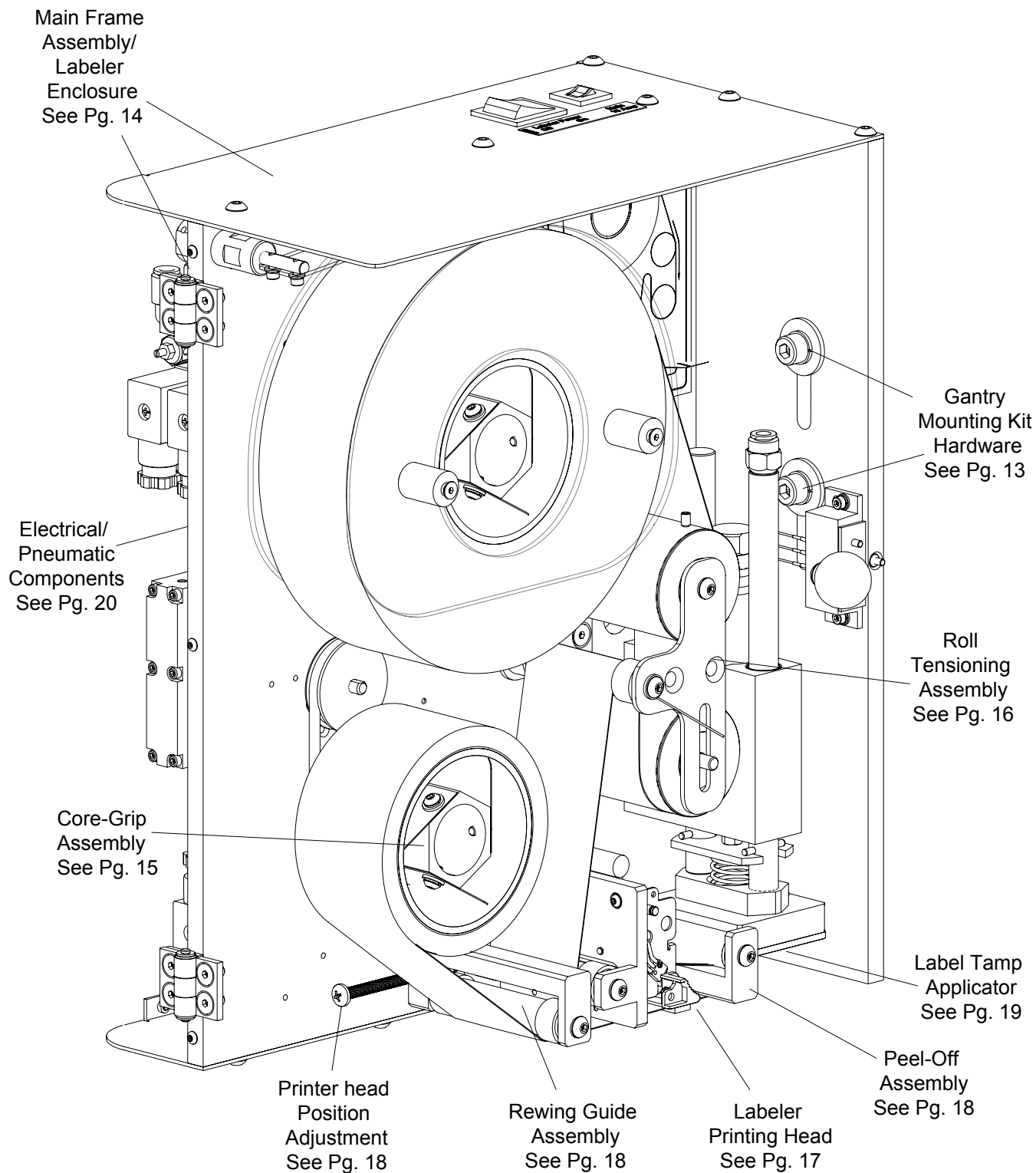
Note: Full Main Frame & Cover Assembly (68-26483) not shown in view, see page 14.

EasiLabel Gantry Y-Car Mounting Kit
68-26489
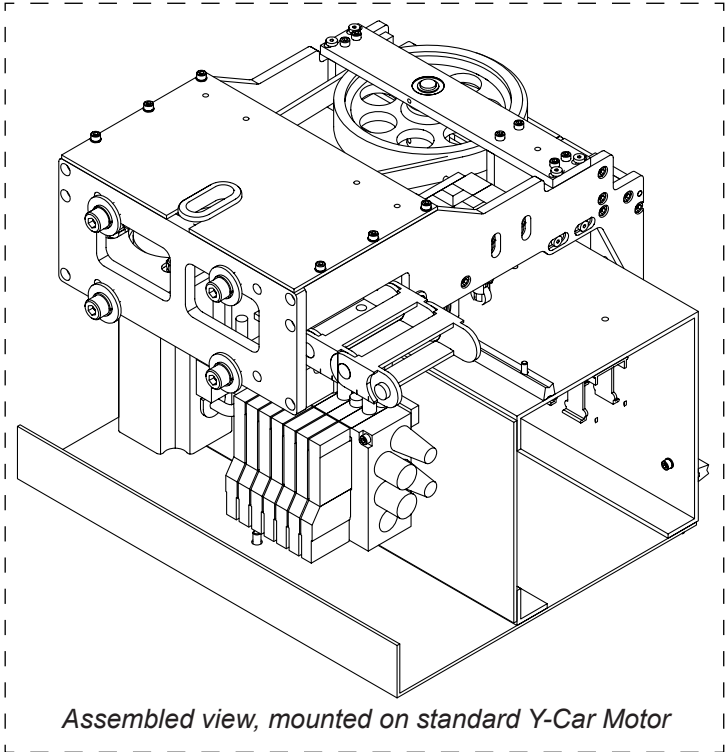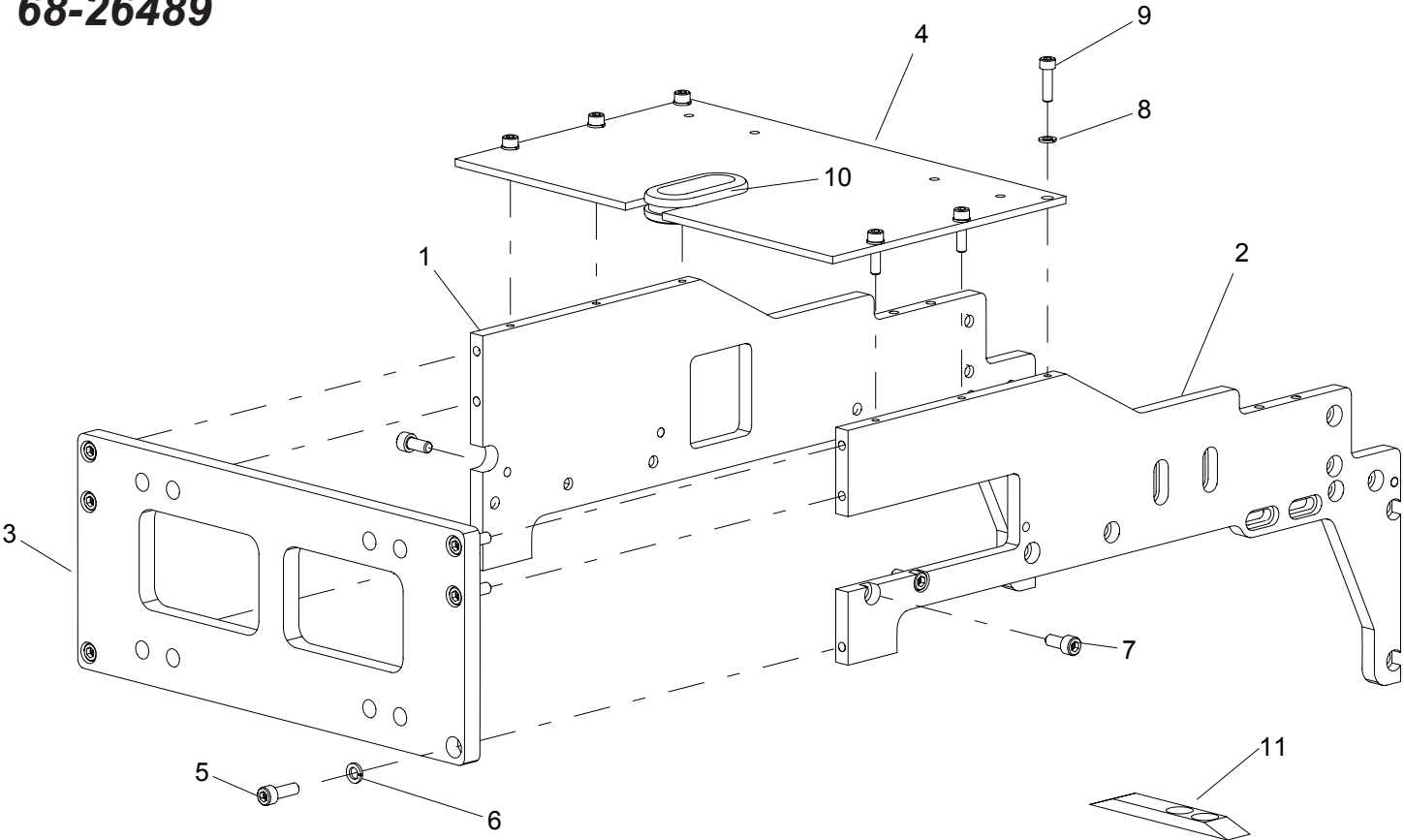
Assembled view, mounted on standard Y-Car Motor

ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28115	Y-Car Side Plate (RHS)	1
2	54-28116	Y-Car Side Plate (LHS)	1
3	54-28117	Mounting Plate, Labeler	1
4	54-28118	Rear Cover Toolhead, Labeler	1
5	335-93-8	Scr. Socket. Hd. #8-32x1/2	6
6	402-080	Washer, Lock #8	6
7	335-93-6	Scr. Socket. Hd. #8-32x3/8	4
8	402-060	Washer, Lock #6	6
9	335-86-8	Scr. Socket Hd. #6-32x12	6
10	9015-0010	Grommet, Rubber (1.5"Dia.)	1
11	54-26807-1	Limit Cam, Long, 4" Labeler	3

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

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Main Frame, Labeler Assembly
68-26483 (2" Wide Labeler)
68-26483-4 (4" Wide Labeler)

Item numbers are for reference only. Please Specify PART NUMBER when ordering replacement parts.
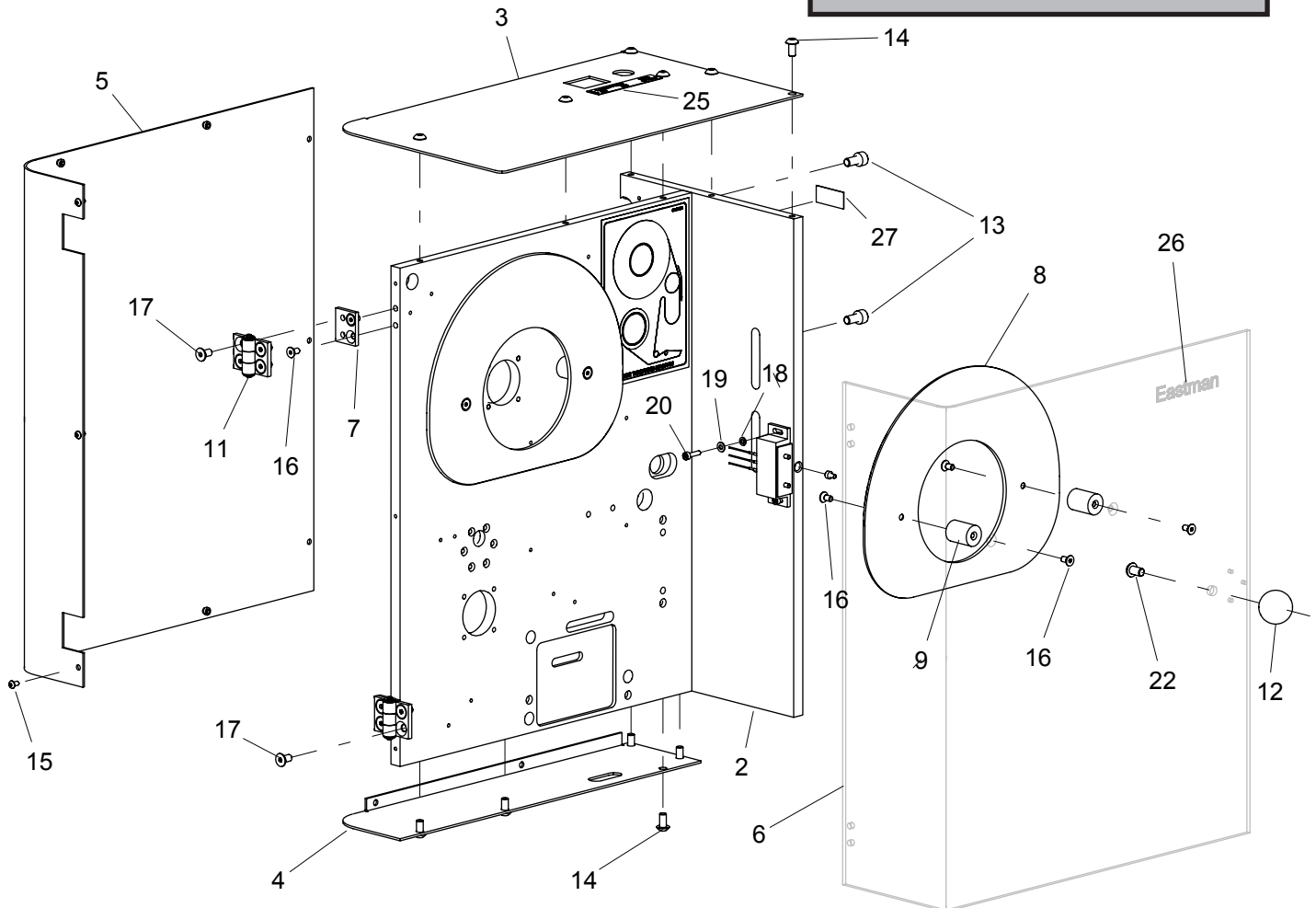
ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28071	Back Plate, Labeler	1
2	54-28072	Side Plate, Labeler	1
	54-28072-4	Side Plate, 4" Labeler	1
3	54-28073	Top Cover, Labeler	1
	54-28073-4	Top Cover, 4" Labeler	1
4	54-28074	Bottom Cover, Labeler	1
5	54-28075	Back Cover, Labeler	1
6	54-28076	Front Door, Labeler	1
	54-28076-4	Front Door, 4" Labeler	1
7	54-28077	Hinge Mount, Labeler	2
8	54-28078	Pay-Out Retainer, Labeler	2
9	54-28079	Spacer, Labeler	4
10	67-26928	Magnet Catch w/ Sensor	1
11	67-26929	Aluminum Hinges - Short	2
12	67-26930	Ball Knob-Resin	1
13	335-M6-12	Scr. Skt. Hd. M6x1.0x12mm	4

ITEM	PART NO.	DESCRIPTION	QTY.
14	333-M5-10	Scr. Button Hd. M5x0.8x10	11
15	333-3-6	Scr. Button Hd. M3x6mm Lg.	10
16	332-M4-8	Scr. Skt. Hd. Flat M4x8mm	10
17	332-M5-10	Scr. Skt. Hd. Flat M5x0.8x10	8
18	401-050	Washer, Flat - Narrow #5	2
19	402-050	Washer, Lock #5	2
20	335-M3-12	Scr. Skt. Hd. M3x12	2
21	332-M3-6	Scr. Skt. Hd. Flat M3x0.5x6	2
22	333-M6-10	Scr. Button Hd. M6x1x10	1
23	335-M4-12	Scr. Socket Hd. M4x0.7x12	2
24	91-26094	Decal, Threading Diagram	1
25	91-26095	Decal, Power On/Off, 10Amp	1
26	91-26002	Decal, Small Worldwide	1
27	91-26096	Decal, Power In, 24 VDC	1
28	335-M3-5	Scr. Socket Hd. M3x0.5x5	1
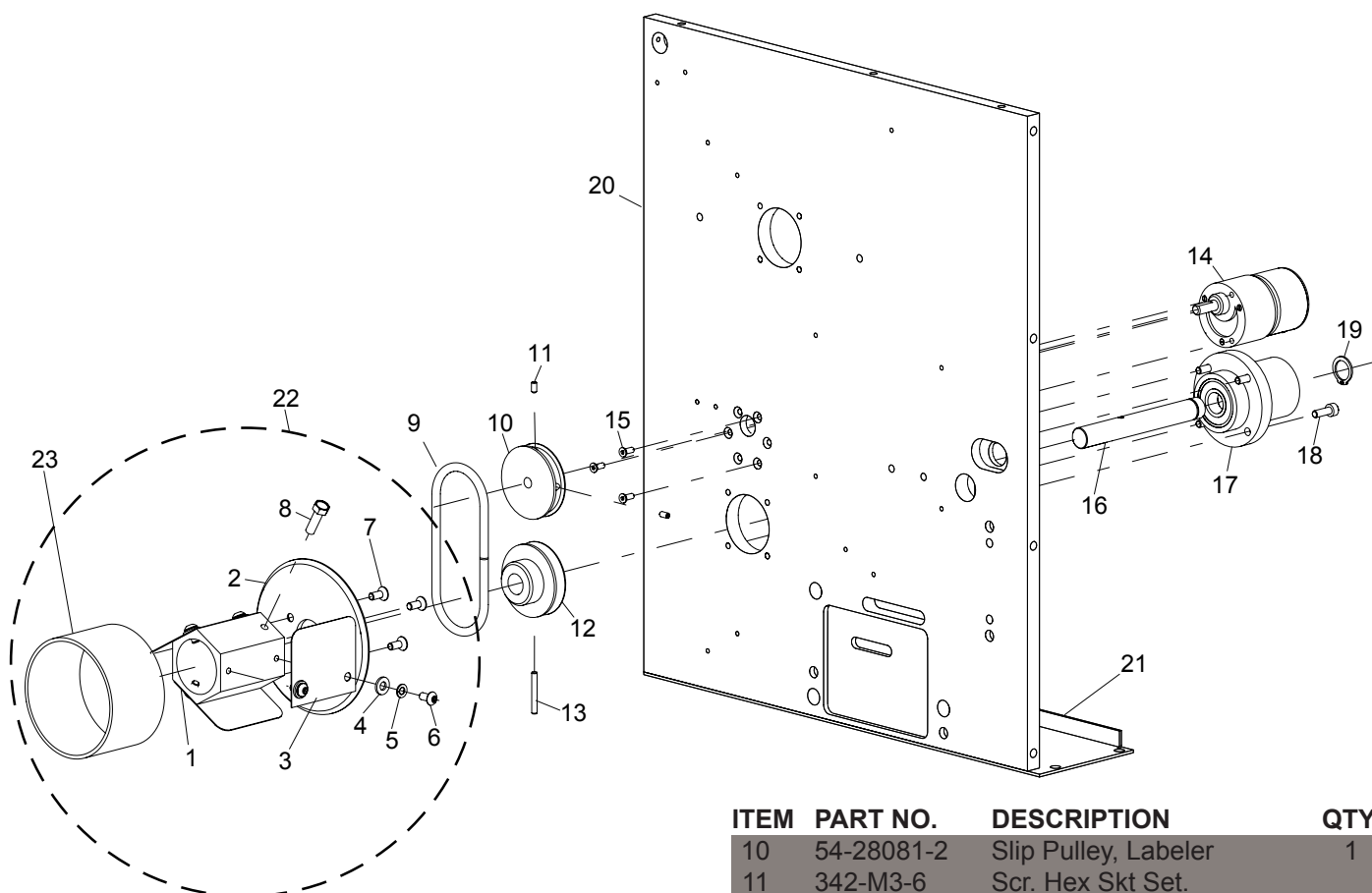
ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28088	Roll Drum Hub, Labeler	2
	54-28088-4	Roll Drum Hub, 4" Labeler	2
2	54-28090	Retainer Inner Core, Labeler	2
3	54-28089	Core Retainer, Labeler	6
	54-28089-4	Core Retainer, 4" Labeler	6
4	401-M4	Washer, Flat - Narrow M4	12
5	402-M4	Washer, Spring Lock	12
6	333-M4-8	Scr. Button Hd. M4x0.7x8	12
7	332-M4-10	Scr. Skt. Hd. Flat M4x10x7	6
8	331-M5-16	Scr. Hex Hd. M5x0.8x16	2
9	67-26933	Rounthane Belt (Cut9.50"LG)	1

ITEM	PART NO.	DESCRIPTION	QTY.
10	54-28081-2	Slip Pulley, Labeler	1
11	342-M3-6	Scr. Hex Skt Set. M3x0.5x6 LG, Cup	2
12	54-28083-1	Take-Up Pulley, Labeler	1
13	532-M3-24-U	Pin, Dowel M3 x 24 Unharden	1
14	67-26931	D.C. Gearmotor, Size 37	1
15	332-M3-8	Scr. Skt. Hd. Flat M3x0.5x8	3
16	54-28082-1	Take-Up Shaft, Labeler	1
17	67-26932-2	Bearing With Housing	1
18	335-M4-12	Scr. Skt. Hd. Cap M4 x 0.7 x 12	4
19	635-M12	Ring, RTN-Extenal	1
20	54-28071	Back Plate, Labeler	1
21	54-28074	Bottom Cover, Labeler	1
22	68-26484	Core Grip Drums	1
	68-26484-4	Core Grip Drums, 4" Labeler	1
23	54-28150	Cardboard Tube	1

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

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Paper Tensioner
68-26486 (2" Wide Labeler)
68-26486-4 (4" Wide Labeler)
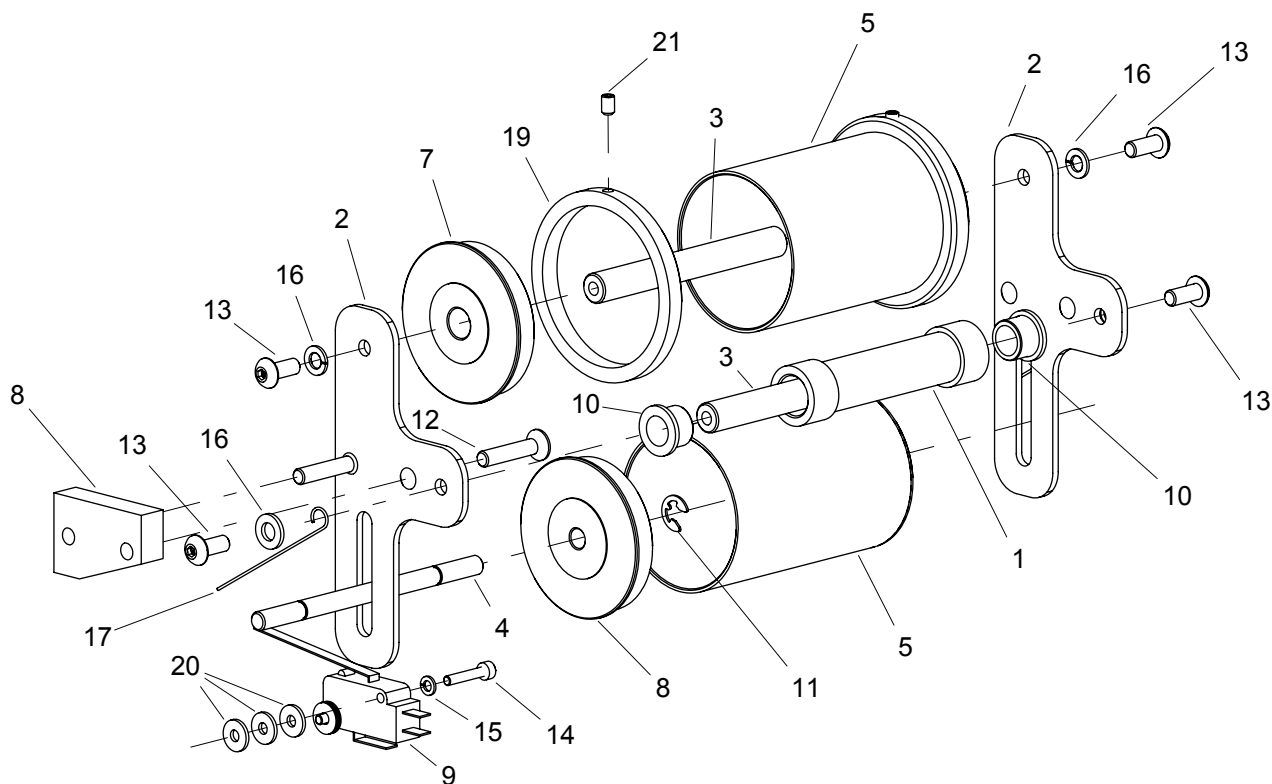
ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28093	Guide Roller	1
	54-28093-4	Guide Roller, 4" Labeler	1
2	54-28094	Tension Side Plate	2
3	54-28095	Tension Guide Shaft	2
	54-28095-4	Tension Guide Shaft, 4"	2
4	54-28096	Dancer Tension Shaft	1
	54-28096-4	Dancer Tension Shaft, 4"	1
5	54-28097	Tensioner Guide Roller	2
	54-28097-4	Tensioner Guide Roller, 4"	2
6	54-28098	Roller End Cap, M6	2
7	54-28099	Roller End Cap, M10	2
8	54-28100	Tensioner Mounting Spacer	1

ITEM	PART NO.	DESCRIPTION	QTY.
9	31-26782	Miniature Switch - Long	1
10	67-26935	Bushing, Flange 0.38x0.50	2
11	662-M5	Retaining Ring, External	2
12	332-M5-25	Scr. Skt. Hd. Flat M5x0.8x25	2
13	333-M5-12	Scr. Button Hd. M5x0.8x12	4
14	335-3-16	Scr. Socket Hd. M3x0.5x16	2
15	402-050	Washer, Lock #5	2
16	401-M5	Washer, Flat M5 - Narrow	4
17	54-28084	Spring Wire	2
18	402-M5	Washer, Lock M5	2
19	54-28201	Guide Collar	2
20	410-M3	Washer, M3	6
21	342-M4-6-2	Set Scr. Skt. Hex M4x6	2

Printing Head
68-26485 (2" Wide Labeler)
68-26485-4 (4" Wide Labeler)
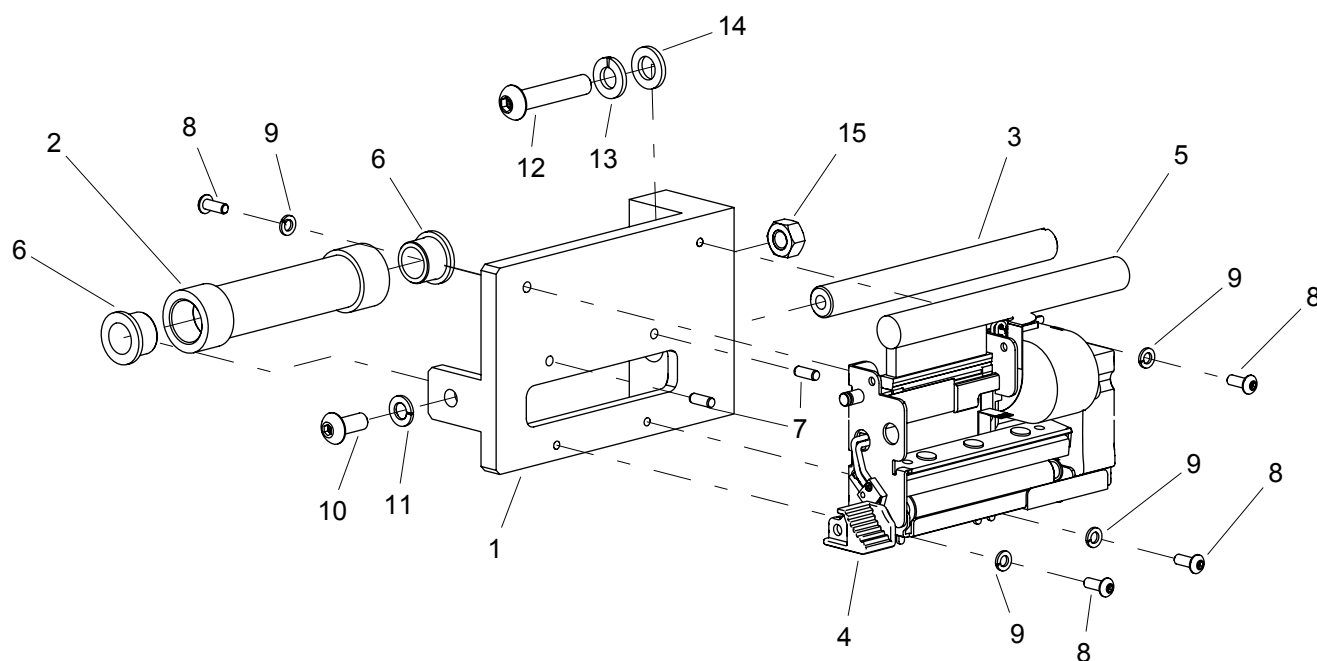
ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28091	Printer Mounting Block	1
	54-28091-4	Printer Mounting Block, 4"	1
2	54-28093	Guide Roller, Labeler	1
	54-28093-4	Guide Roller, 4" Labeler	1
3	54-28092	Guide Shaft, Labeler	1
	54-28092-4	Guide Shaft, 4" Labeler	1
4	67-26943	Thermal Print Mechanism	1
	67-26943-4	Thermal Print Mechanism, 4"	1
5	31-26780	Printer/Interface Connector	1
6	67-26935	Bushing, Plastic Flange	2
7	532-M3-8	Pin Dowel, M3x8	2
8	333-M3-8	Scr. Button Hd. M3x0.5x8	4

ITEM	PART NO.	DESCRIPTION	QTY.
9	402-050	Washer, Lock #5	4
10	333-M5-12	Scr. Button Hd. M5x0.8x12	1
11	402-M5	Washer, Lock M5	1
12	333-M6-30	Scr. Button Hd. M6x1.0x30	1
13	402-M6	Washer, Lock M6	1
14	413-34	Washer, Flat Narrow (.281ID)	1
15	203-M6	Hex Nut, M6x1	1

Item numbers are for reference only.
Please Specify PART NUMBER when
ordering replacement parts.

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Peel Plate & Rewind Setup
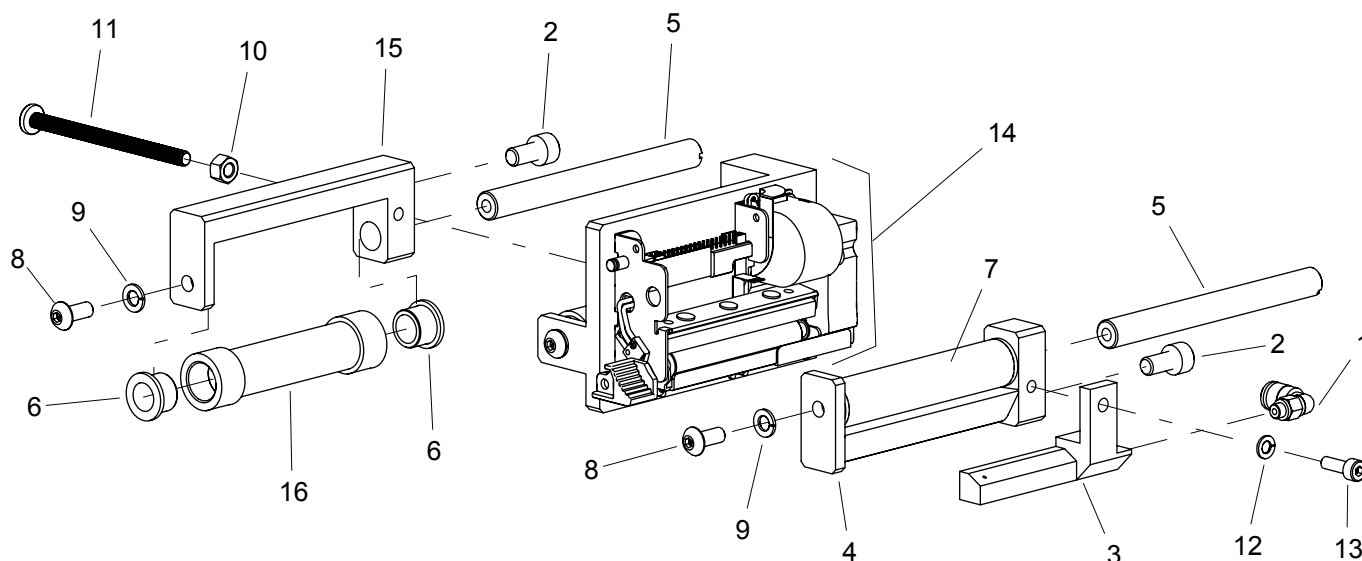
ITEM	PART NO.	DESCRIPTION	QTY.
1	100-13-16	Elbow Connector, 10-32	1
2	335-M6-12	Scr. Socket Hd. M6x1x12	2
3	54-28119	Air Blower Nozzle, Labeler	1
	54-28119-4	Air Blower Nozzle, 4" Labeler	1
4	54-28101	Peel Bar, Labeler	1
	54-28101-4	Peel Bar, 4" Labeler	1
5	54-28092	Guide Shaft, Labeler	2
	54-28092-4	Guide Shaft, 4" Labeler	2
6	67-26935	Bushing, Flange - 0.38x0.5	4
7	54-28086	Peel Off Roller	2
	54-28086-4	Peel Off Roller, 4" Labeler	2
8	333-M5-12	Scr. Button Hd. M5x0.8x12	2
9	402-M5	Washer, Lock M5	2

ITEM	PART NO.	DESCRIPTION	QTY.
10	203-M5	Nut, Finishing, Hex M5x0.8	1
11	328-M5-70	Scr. Pan Hd. M5x0.8x70	1
12	402-M4	Washer, Spring Lock M4	1
13	335-M4-12	Scr. Socket Hd. M4x0.7x12	1
14	68-26485	Printer Hd. Assy. Labeler	1
	68-26485-4	Printer Hd. Assy. 4" Labeler	1
15	54-28102	Return Guide Bracket	1
	54-28102-4	Return Guide Bracket, 4"	1
16	54-28093	Guide Roller, Labeler	1
	54-28093-4	Guide Roller, 4" Labeler	1

Item numbers are for reference only. Please Specify PART NUMBER when ordering replacement parts.

Label Applicator, Tamp Transfer
68-26487 (2" Wide Labeler)
68-26487-4 (4" Wide Labeler)

Δ - 5/32" AIR LINE, TUBING

O - 1/4" AIR LINE, TUBING
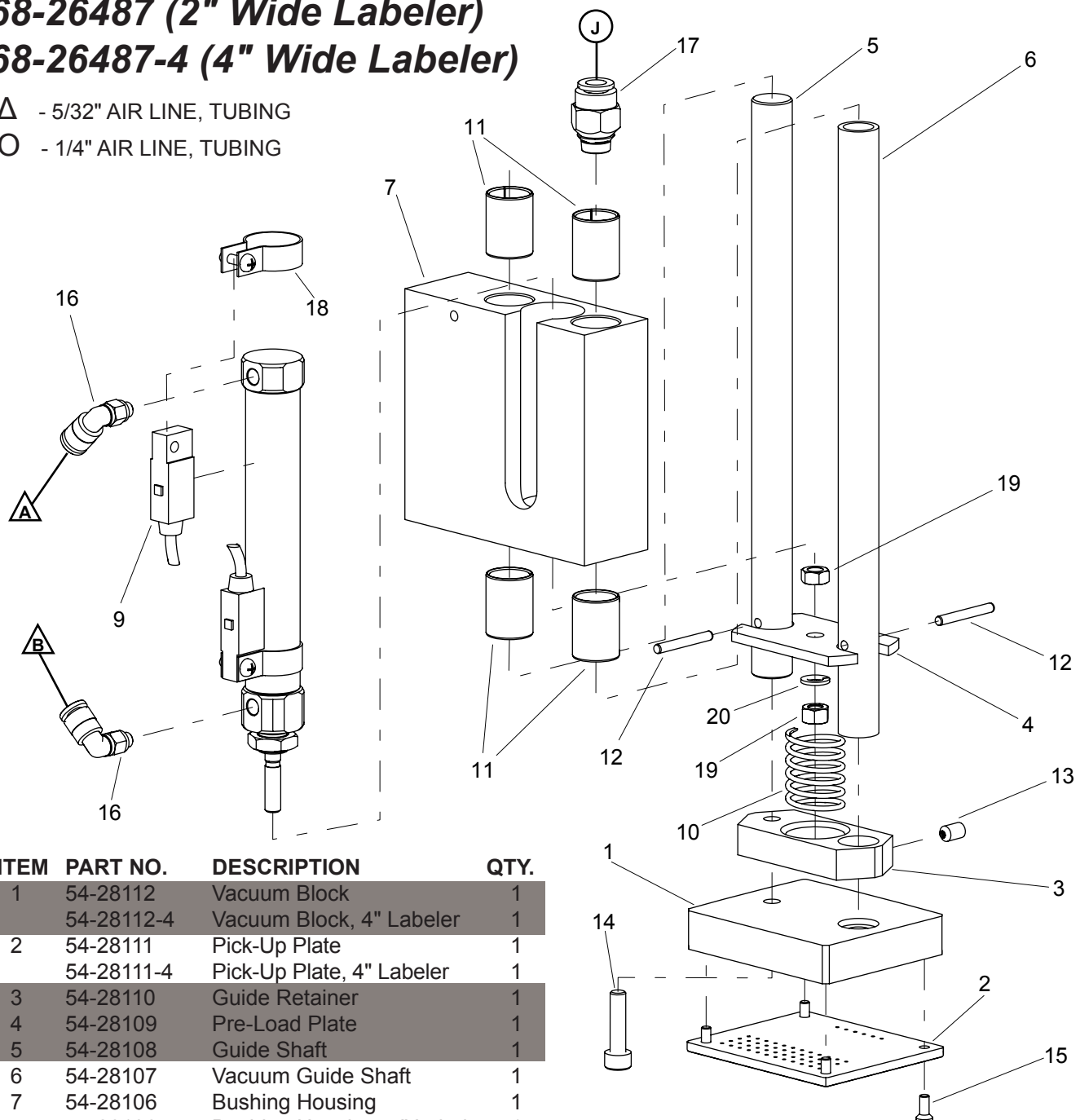
ITEM	PART NO.	DESCRIPTION	QTY.
1	54-28112	Vacuum Block	1
	54-28112-4	Vacuum Block, 4" Labeler	1
2	54-28111	Pick-Up Plate	1
	54-28111-4	Pick-Up Plate, 4" Labeler	1
3	54-28110	Guide Retainer	1
4	54-28109	Pre-Load Plate	1
5	54-28108	Guide Shaft	1
6	54-28107	Vacuum Guide Shaft	1
7	54-28106	Bushing Housing	1
	54-28106-4	Bushing Housing, 4" Labeler	1
8	27-26060	Air Cylinder w/ Sensor Band	1
9	31-26783	Cylinder Sensor (NPE)	2
10	67-26938	Compression Spring	1
11	67-26939	Oil-Free Bushing, M13x15x20	4
12	532-M3-24	Pin, Dowel M3x24	2
13	342-M5-8-6	Set Scr, Skt. Hd. M5x0.8x8 Lg.	1
14	335-M5-20	Scr. Socket Hd. M5x0.8x20	1
15	332-M3-8	Scr. Skt. Hd. Flat M3x0.5x8	4

ITEM	PART NO.	DESCRIPTION	QTY.
16	100-13-16	Elbow Connector #10-32 Thd.	2
17	100-11-15	Straight Connector 1/8" Thd.	1
18	27-26061	Switch Mounting Bracket	2
19	206-M5	Nut, Hex M5x0.8x4	2
20	402-M5	Washer, Lock M5	1

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Electrical/Pneumatic Components
68-26488

ITEM	PART NO.	DESCRIPTION	QTY.
1	31-26415	DB15 Interface Terminal	1
2	11-4737	Connector, 4P Square Flange	1
3	31-00739-2	2" Terminal Mount Rail	2
4	31-26781	Printer Interface Board	1
5	31-26414	Terminal End Clamps	2
6	31-26405	Ground Terminal Block	1
7	31-26604	Terminal Block, Din Mount	2
8	31-26012-6	Curette Switch 3XC58	1
9	11-1333-10	Fuse, Circuit Breaker 10 Amp.	1
10	27-26063	Vacuum Pump Blow Off	1
11	100-18-42	Valve, 24VDC, 1/8NPT, 4-way	3
12	100-13-18	Bulkhead Male Elbow, 1/4"	1
13	100-13-19	Plug-In Elbow, 1/4"	1
14	100-13-17	Male Elbow, 1/4NPT, 1/4"	1
15	100-11-15	Straight Connector, 1/4"	1
16	100-13-20	Male Elbow, 1/8NPT, 1/4"	3
17	100-11-16	Male Straight, 1/8NPT, 1/4"	1
18	54-28080	Spacer (0.141x0.25x0.50)	6
19	100-11-17	Male Straight, 1/8NPT, 5/32"	3
20	100-15-1	Y-Branch Union, 1/4"	1
21	9015-0003	Grommet, Rubber	3
22	402-M3	Spring Lock Washer, M3	14
23	333-M3-10	Scr. Button Hd. M3x0.5x10	4
24	335-M3-25	Scr. Socket Hd. M3x0.5x25	4
25	335-M3-60	Scr. Socket Hd. M3x0.5x60	2
26	65-26034-40	Scr. Socket Hd. M3x0.5x40	2
27	333-M5-10	Scr. Button Hd. M5x0.8x10	4
28	100-18-38	Flow Valve, In-Line, 5/32"	1
29	27-H0409	Plug, Socket Hd. 1/8NPT	4
30	251C3-2	1/8NPT Speed Control Muffler	1
31	100-14-7	Y-Plug-In, 3 Port, 1/4" O.D	1
32	335-M3-30	Scr. Socket Hd. M3x0.5x30	2
33	335-M3-20	Scr. Socket Hd. M3x0.5x20	1
34	67-26972	Mechanical Vacuum Switch	1
35	100-14-1	Union Tee, 1/4" - Push On	1
36*	31-26382-15	DB15 MF 15' Serial Cable	1
37*	31-26371-15	DB9 MF 15' Interface Cable	1
38*	31-27071-CL	Labeler Power Cable	1

CL = Cable Length
* = Not Included in Assembly

> Item numbers are for reference only.
> Please Specify PART NUMBER when
> ordering replacement parts.

AIR-IN
60-85-PSI

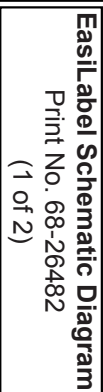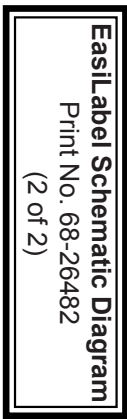Δ - 5/32" AIR LINE, TUBING

O - 1/4" AIR LINE, TUBING

Dip Switch Settings:
On, Off, On, Off, Off, Off, Off, Off

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Dip Switch Settings:
On, Off, On, Off, Off, Off, Off

LABELER PRINTER

CN1 (PIN 40)

CN1

40 PIN INTERFACE CABLE

CN1 (PIN 40)

PRINTER INTERFACE CARD

1 +24
2 +24
3 COM
4 COM

18 AWG WIRE

+24 VDC COM BROWN
24 COM BLUE

LABELER SERIAL CABLE

1-BLK

BLK-1

DRG/WHT

IN LINE FUSE HOLDER

6965-00

SNUBBER
31-27022

31-27065

11-1195

COM

LABEL BRAKE

+24VDC N.O.

67-26940

BRAKE

B

24 COM

+24VDC

DRG/WHT

BLUE

DRG/WHT

BLUE

31-26840 - 2 PDS TAB
31-26841 - 2 PDS RECPT.
31-26838 - SOCKETS
31-26839 - PINS
6965-00 - IN LINE FUSE
11-1334 - 2/10 MIDD FUSE

+24 VDC BROWN   TB1
+24 VDC BROWN   TB2
24 COM BLUE   TB3
24 COM BLUE   TB4

GND

GROUND-BLK
+24VDC RED
APPLICATOR APPLY SOLENOID
GROUND-BLK
APPLICATION VACUUM SOLENOID
+24VDC RED
LABEL APPLY UP/DOWN SOLENOID
+24V RED
24V COM BLUE
LABEL LOW LIMIT SWITCH
COM
NC
24V COM BLUE

LABELER COVER INTERLOCK
67-26928
COM N.C. (WHT) N.O.

COVER INTERLOCK - RED

NPN SWITCH
BROWN
BLACK
BLUE

APPLICATOR DOWN

24 COM BLUE
+24 BRN

NPN SWITCH
BROWN
BLACK
BLUE

APPLICATOR UP

24 COM BLUE
+24 BRN

OFF   ON

CB1
10A

+24V COM BLUE
+24VDC BRN
+24VDC BRN

24 VDC POWER IN

APPLICATOR APPLY - WHT
APPLICATION VACUUM - WHT
LABEL APPLY-UP/DOWN - WHT
LABEL LOW SENSOR - DRG

GROUND-BLK
APPLICATOR UP POS - BLK 1
APPLICATOR DWN POS - BLK 2
COVER INTERLOCK - RED 3
LABEL LOW SENSOR - DRG 4

DB15 SCREW TERMINAL INTERFACE BLOCK

LABEL APPLY UP/DWN
APP. APPLY VACUUM-WHT
APP. APPLY - WHT
DRG/WHT
REWIND MOTOR

15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

BELDEN 8302 - 4C/22AWG

PRESSURE SENSOR

DB15F

LABELER PART # 31-27090

LABELER I/O CABLE

Form E-558

LABELER POWER SUPPLY
PART # 31-26791

4 PIN CONNECTOR
11-4747 SCREW DIN CONNECTOR
11-4736 STRAIN RELIEF
11-1797-1 PIN (4)

230 VAC
230 VAC

24VDC POWER SUPPLY 10A

L N G

13 14
DC DK
+ +
- -

TSIO - 8002 FIELD POWER DISTRIBUTOR

6 4 2 0
7 5 3 1

FIELD POWER IN
FIELD POWER NET.
GND1
GND2
NC
FIELD POWER
FIELD POWER

TSIO - 4005 DIGITAL OUTPUT

6 4 2 0
7 5 3 1
CH7 CH6 CH5 CH4 CH3 CH2 CH1 CH0

TSIO - 2008 DIGITAL INPUT

6 4 2 0
7 5 3 1
CH7 CH6 CH5 CH4 CH3 CH2 CH1 CH0

TSIO - 5001 RELAY OUTPUT

6 4 2 0
7 5 3 1
L2 L2 L1 L1 CH0 CH0 CH1 CH1

REWIND DN/OFF - ORG/WHT
+24VDC-BLUE

LABLER APPLY UP/DWN - GRN/WHT
APPLICATION VACUUM - VID/WHT
APPLICATOR APPLY - GRAY/WHT
REWIND DN/OFF - ORG/WHT

APPLICATION UP - WHT/GRN
APPLICATION DWN - WHT/ORG
COVER INTERLOCK - WHT/VID
LABEL LOW SENSE - WHT/BLK

DB15 SCREW TERMINAL INTERFACE BLOCK

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

DB15F

LABELER I/O INTERFACE

LABELER I/O CABLE
PART # 31-27090

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EasiLabel,
Pneumatic Diagram
31-26798

90 PSI MAX
70 PSI MIN

1/4"

1/4"   1/4"

1/4"

IN   EXH
AIR ASSIST VALVE P/N 100-18-42
B   A

AIR ASSIT

1/4"

IN   B
TAMP CYLINDER VALVE P/N 100-18-42
EXH   A

5/32"   5/32"

1/4"

IN   EXH
VACUUM VALVE P/N 100-18-42
B   A

LABELER TAMP CYLINDER P/N 27-26060

1/4"

VACUUM PUMP W/BLOW OFF MODULE P/N 27-26063

1/4"

PRESSURE SENSOR

LABEL VACUUM

EasiLabel,
Mechanism Status Output

The following signals show the status of the interface:

LED1: Power: Indicates the status of a power supply periphery(except writ-
                            ing fonts).
LED2: Paper: Indicates the status of paper.
LED3: Error 1: Indicates various errors by combination of the LED3 and 4.

Printer Status signals

Printer Status Signal	LED1 (Green)	LED2 (Yellow)	LED3 (Red)	LED4 (Red)
Power Off	—	—	—	—
During Initializing	△	△	△	△
Out-Of-Paper Error	○	—	*1	*1
Paper-Near-End-Error	○	△	*1	*1
Paper Exist	○	○		*1
Hardware Error	○	*2	△	△
VP Voltage Error	○	*2	△	○
Autocutter Error	○	*2	—	△
Paper Jam Error	○	*2	△	—
Platen Open Error	○	*2	○	○
Paper Retract Error	○	*2	○	△
Thermal Head Temp. Error	○	*2	—	○
Option-Sensor Error	○	*2	○	—
During Rewriting Font Download	△	—	○	○
Font Download Mode	△	—	—	—

○ :Lighting
— :Light -out
△ :Blinking

*1: The IF9001 performs LED indication that depended on other than paper status
*2: The IF9001 performs LED indication that depended on paper status

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Operation Errors

The type of operation errors can be judged from the LEDS. Moreover, that can be judged using the error status response command.

Problem	Solution
Out-of-paper error No paper	Load paper. Two ways to load paper: 1. Automatic Loading 2. Manual Loading
Paper-near-end error The paper near end sensor detects error status ("High")	Return the paper near end sensor to ("Low")
Platen open error The platen is up	Set down the platen.
VP voltage error VP is out of the allowable range (10.0V to 27.0V)	Non recoverable error.
Head Temperature error The temperature of the thermal head is -30C (-22F) or lower, or 80C (176F) or higher.	Goes to print ready status between ranges -25C (-13F) to 75C (167F).

Problem	Solution
Paper jam error Paper jam occurred when using an option sensor for auto-loading paper.	Remove paper.
Presenter jam error Paper jam occurred when the presenter feeds paper.	Non recoverable error.
Paper retract error Paper jam occurred when using an presenter for retracting paper.	Non recoverable error.
Option sensor error A valid option sensor detects error status ("High").	Return the variable option sensor to ("Low").

NOTE

The VP voltage allowable range is programmed to be from 10.0V to 27.0V in consideration of detection errors and instantaneous changes.

Service Record

Machine Serial No.:_____
Machine Voltage: _____
Date of Purchase:_____

Date	Type of Service Performed

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Technical Data
EASTMAN® EasiLabel

EasiLabel - Adhesive Labeling System

Overall Height................................ 15" (38 cm)
Overall Width................................ 7.25" (18.5 cm)
Overall Length............................. 12.5" (31.75 cm)
Weight... Approx. 25 lbs (11 kg)
Max Label Roll Diameter.............. 8" (20.3 cm)
Label Roll Core Diameter............. 3" (7.6 cm)
Label Roll Web Width................... 1.125" (2.86 cm)
Thermal Print............................... Text and Barcode Printing Capabilities
Label Sizes.................................. 2 in: 1/2" x 1-1/4" & 1" x 2" (Standard Sizes)
4 in: 5/8" x 3-1/2" (Standard Size)

All Standard Size Labels Available in Removable & Non-Removable Adhesive Backing

LABEL ROLL REPLACEMENT
PURCHASE ORDER NUMBERS

Part No.	Description
67-26941	Labels, 2" x 1", 5500/Roll
67-26941-1	Labels, 1.25" x 0.50", 9900/ Roll
67-26941-1R	Labels, 1.25" x 0.50", 9900/Roll, Removable
67-26941-4R	Labels, 3.5" x 0.63", 9600/Roll, Removable
67-26941R	Labels, 2" x 1", 5500/Roll, Removable

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