



LMQ Service Manual



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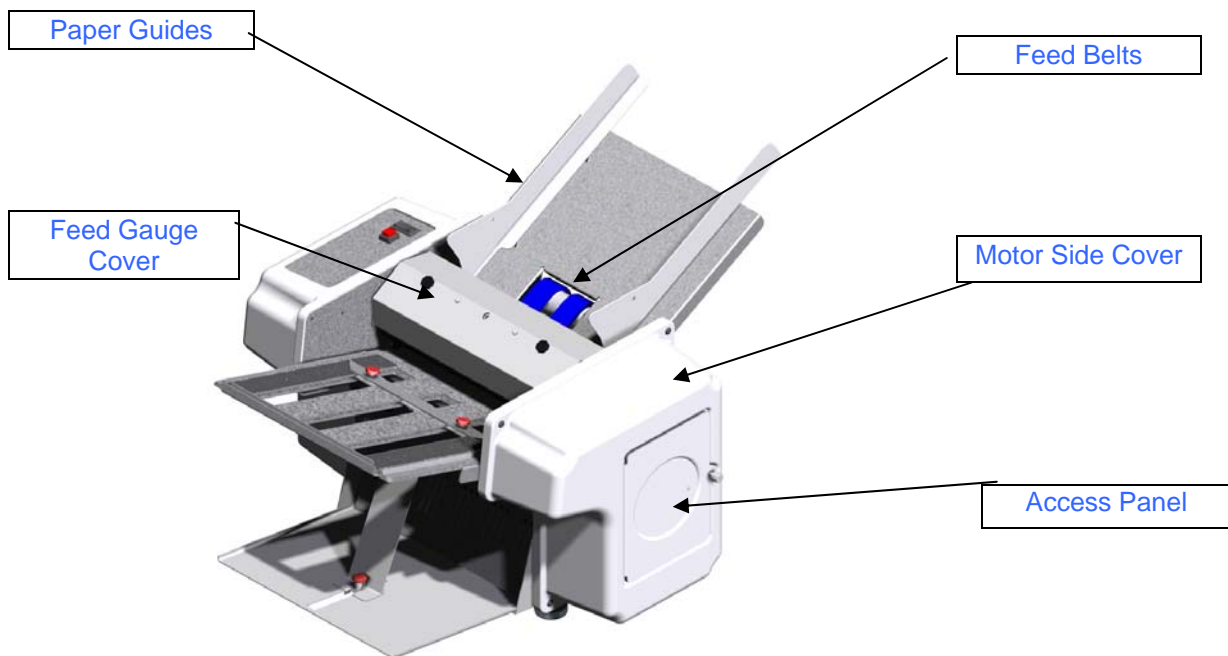
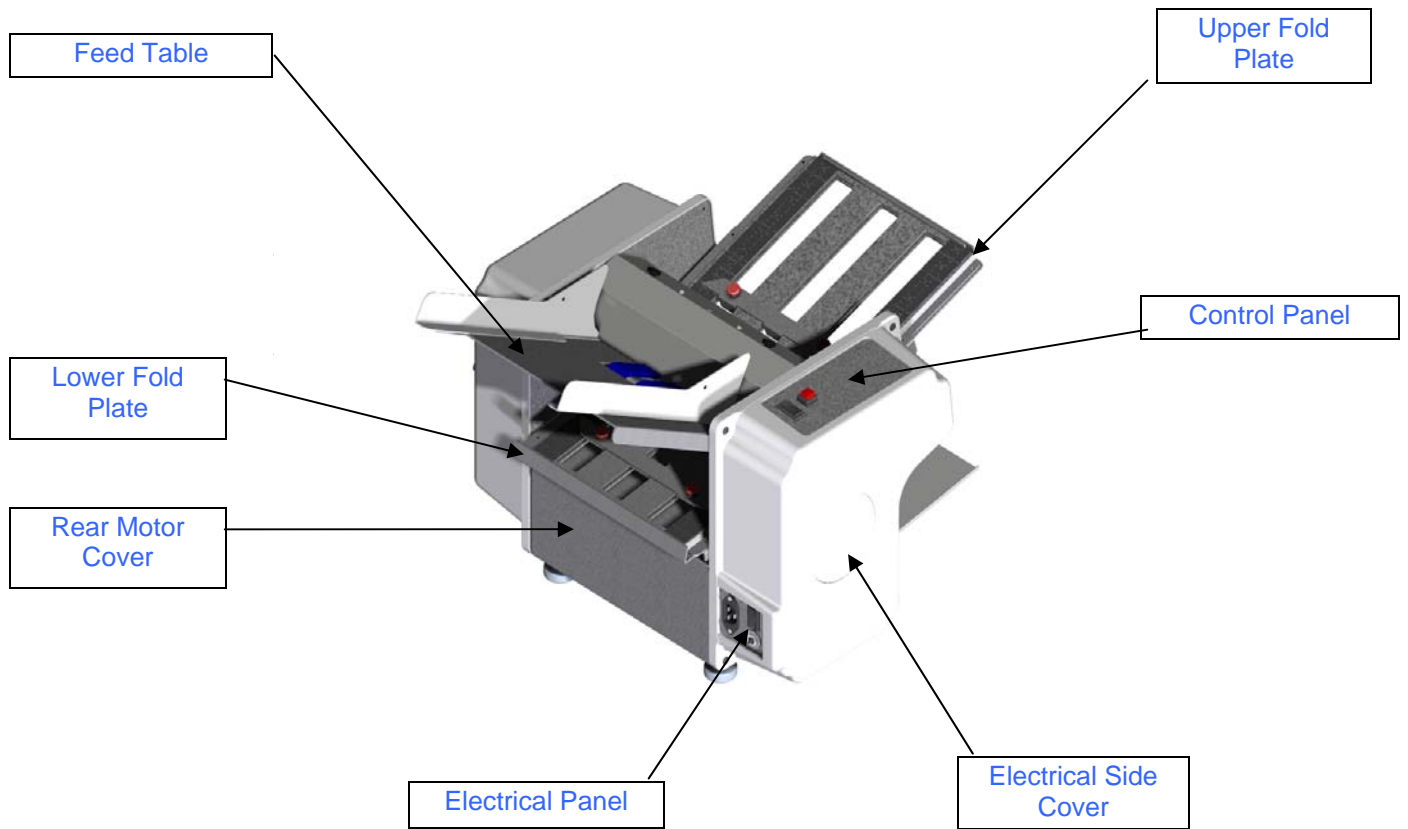
Tools Needed

- Set of U.S.A. standard Inch Allen Wrenches (3/32", 5/64", 1/8", 3/16", ¼")
- 7/16" Deep Socket & Driver
- ½" Open end wrench
- Needle nose Pliers
- Flat Head Screwdriver
- Continuity Tester

⚠ Warning: Before servicing the machine, disconnect the power cord from the machine.

Machine Overview

⚠ Read the *Operators Manual* to become familiar with the machine operation.



Chassis

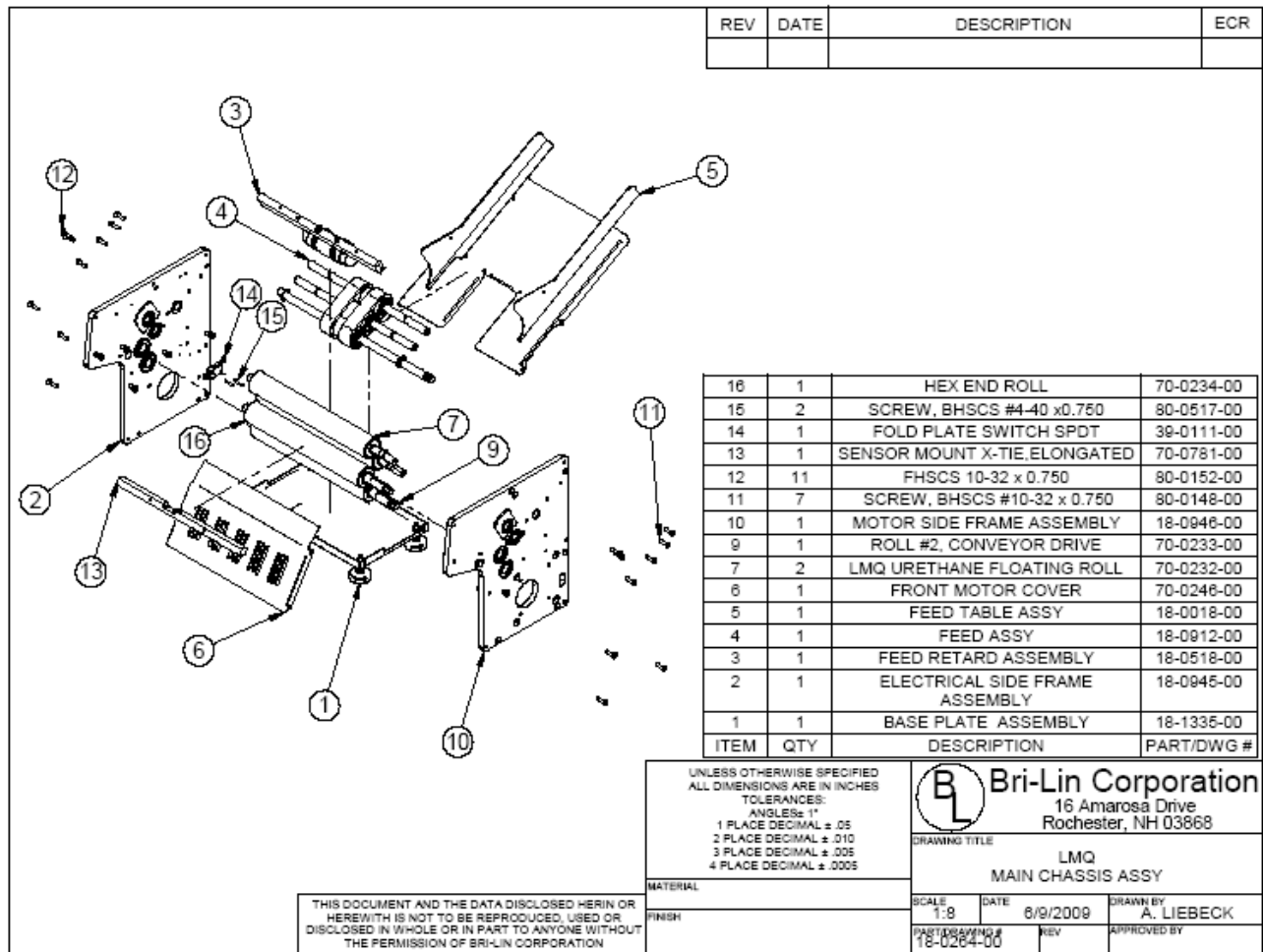


Figure 1: Chassis Assembly View

NOTE: For the purpose of clarity, static brush #55-0338-00 and Wiper Assembly 18-0219-00 are not shown. (See Page 24)

Removing the Side Covers

1. Unplug **Power Cord** from the machine.
2. Remove the four **Cover Mount Screws** at the corners of the side cover [Figure Error! Not a valid link.].

Cover Mount Screws

Removing the Motor Side Frame

1. Remove both **Fold Plates**.
2. Remove the **Motor Side Cover** [Figure Error! Not a valid link.].
3. Remove the **Electrical Side Cover**.
4. Remove the **Rear Motor Guard Screw** on the **Electrical Side** [Figure Error! Not a valid link.].
5. Place the **Electrical Side Cover** on a sturdy flat surface.



6. Turn the machine on its side (**Electrical Side** face down), resting it on the **Electrical Side Cover** so that the side **Electrical Side Frame** is seated properly in the side cover.

Figure 2: Side Cover Screws

7. Remove the **Feed Gauge Cover** by removing both black thumb screws.

8. Remove the **Feed Drive O-ring** [Figure Error! Not a valid link.].

9. Remove the **Roll Gears** [Figure Error! Not a valid link.].

- a. Loosen both set screws 2-3 turns on metal gears and remove e-clips for the plastic gears
- b. Pull the gear off of the roll.
- c. Remove the key from the roll.

10. Remove the **Motor Gear** [Figure Error! Not a valid link.].

- a. Loosen both set screws 2-3 turns.
- b. Pull the gear off of the motor shaft.
- c. Remove the key from the motor shaft.

11. Remove the **Idler Gear** by removing the shoulder-bolt on which it is mounted [Figure Error! Not a valid link.].

12. Remove the **Feed Pulley** [Figure Error! Not a valid link.].

- a. Loosen the set screw 2-3 turns.
- b. Pull the pulley off of the shaft.

13. Disconnect both leads from the **Door Switch** [Figure Error! Not a valid link.].

14. Remove the screws which attach the **Feed Table**, **Feed Idler**, **Feed Gauge**, **Base Cover**, and **Motor Covers** [Figure Error! Not a valid link.].

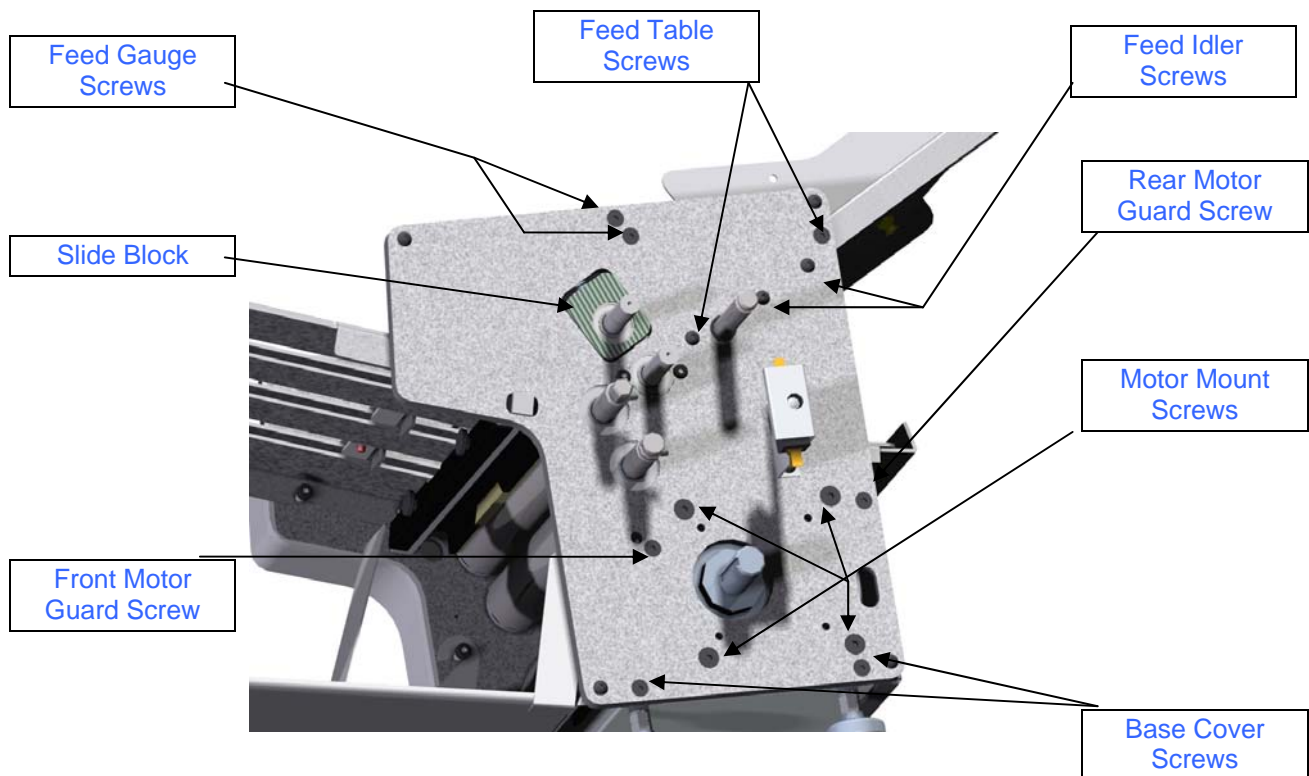


Figure 3: Motor Side Frame Removal

15. Remove the **Rear Motor Guard**.

16. Remove the **Motor Mount Screws**. Be careful to catch the **Motor** before it drops. Gently let it rest on the **Electrical Side Frame**.

- Slowly pull up on the **Motor Side Frame**. As you pull the frame off of the rolls, reach under and push the **Slide Block** [Figure Error! Not a valid link.] up against the **Motor Side Frame** so that it stays with the frame as you remove it.

Removing the Electrical Side Frame

- Remove both **Fold Plates**.
- Remove the **Electrical Side Cover** [Figure Error! Not a valid link.].
- Remove the **Feed Gauge Cover** by removing both black thumb screws.
- Remove the **Access Door** from the **Motor Side Cover**.
- Turn the machine on its side (**Motor Side Cover** face down), resting it on the **Motor Side Cover**.

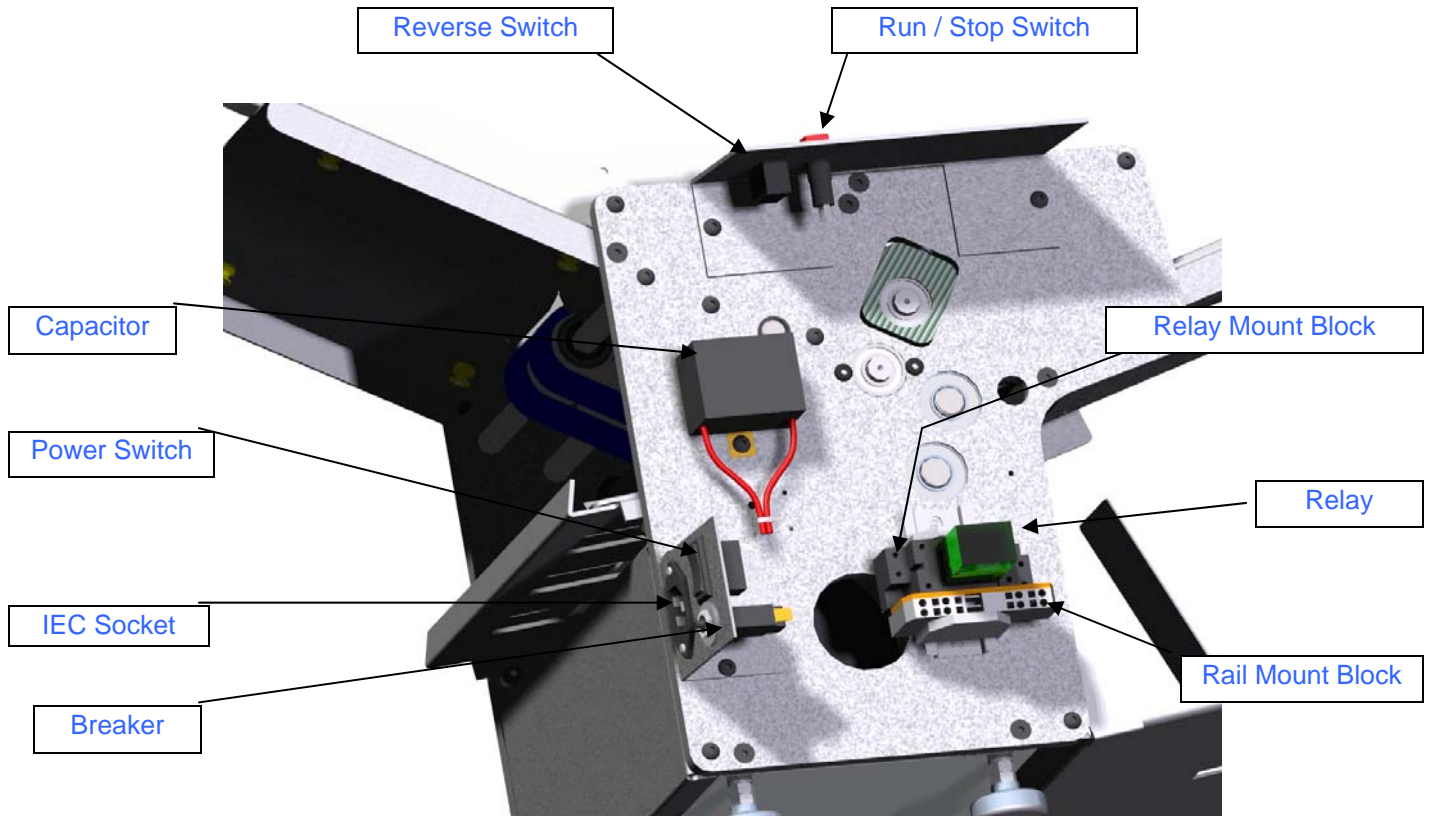


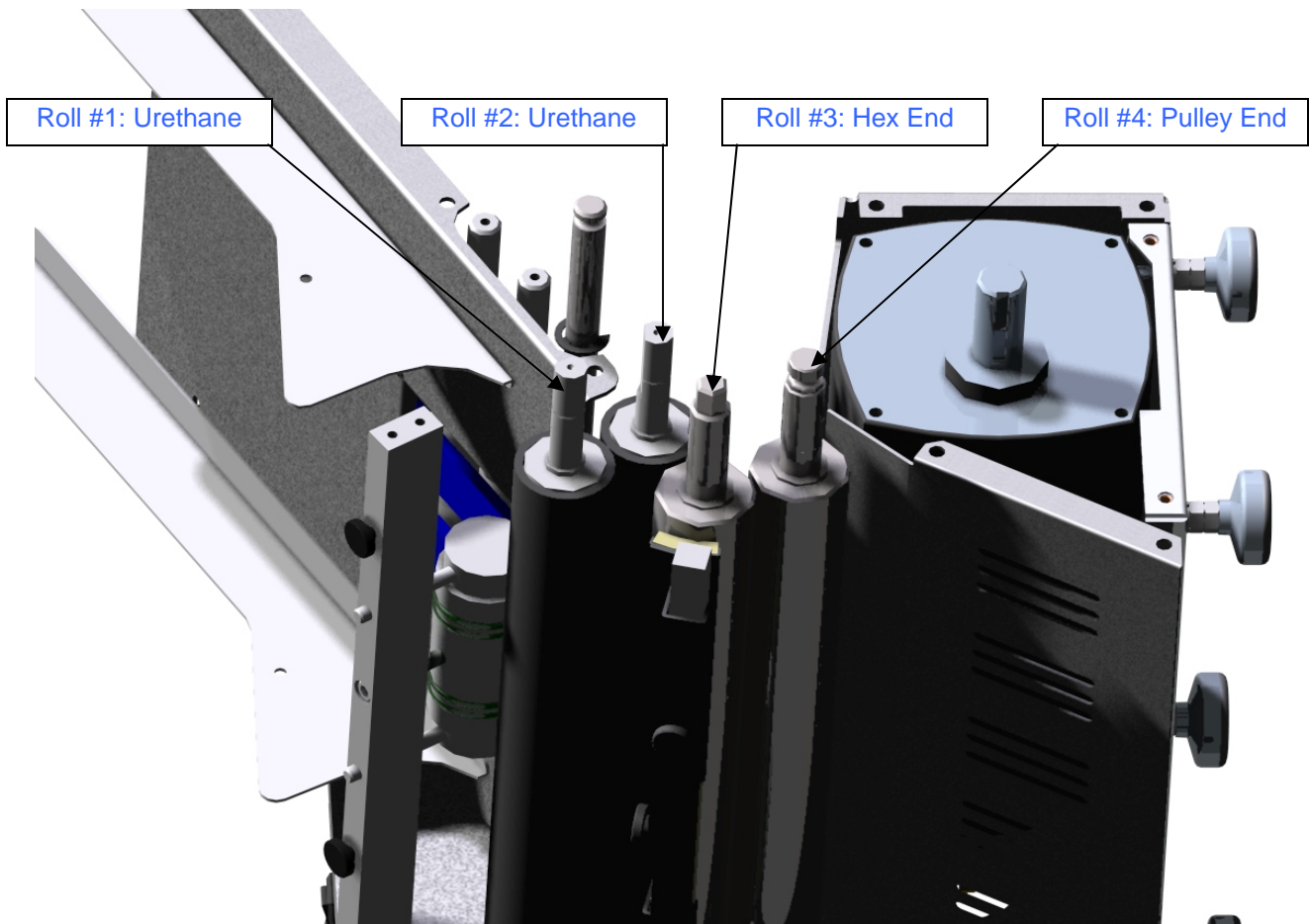
Figure 4: Electrical Side Frame Removal

- Disconnect both leads from the **Run / Stop Switch** [Figure Error! Not a valid link.].
- Disconnect both leads from the **Capacitor** [Figure Error! Not a valid link.].
- Disconnect the **Breaker** from the **Motor** [Figure Error! Not a valid link.].
- Disconnect the **Door Switch** wire from the **IEC Bracket** [Figure Error! Not a valid link.].
- Unscrew the **Ground Screw** from the side frame [Figure Error! Not a valid link.].
- Remove the screws which attach the **Feed Table**, **Feed Idler**, **Feed Gauge**, **Base Cover**, and **Motor Covers** [Figure Error! Not a valid link.].
- Slowly pull up on the **Electrical Side Frame**. As you pull the frame off of the rolls, reach under and push the **Slide Block** [Figure Error! Not a valid link.] up against the **Electrical Side Frame** so that it stays with the frame as you remove it.

Servicing the Rolls

1. Remove the **Motor Side Frame** [see section above, page 2].
2. You will now be able to remove any roll that you need service [Figure Error! Not a valid link.].

Figure 5: Servicing the Rolls



Drive Train

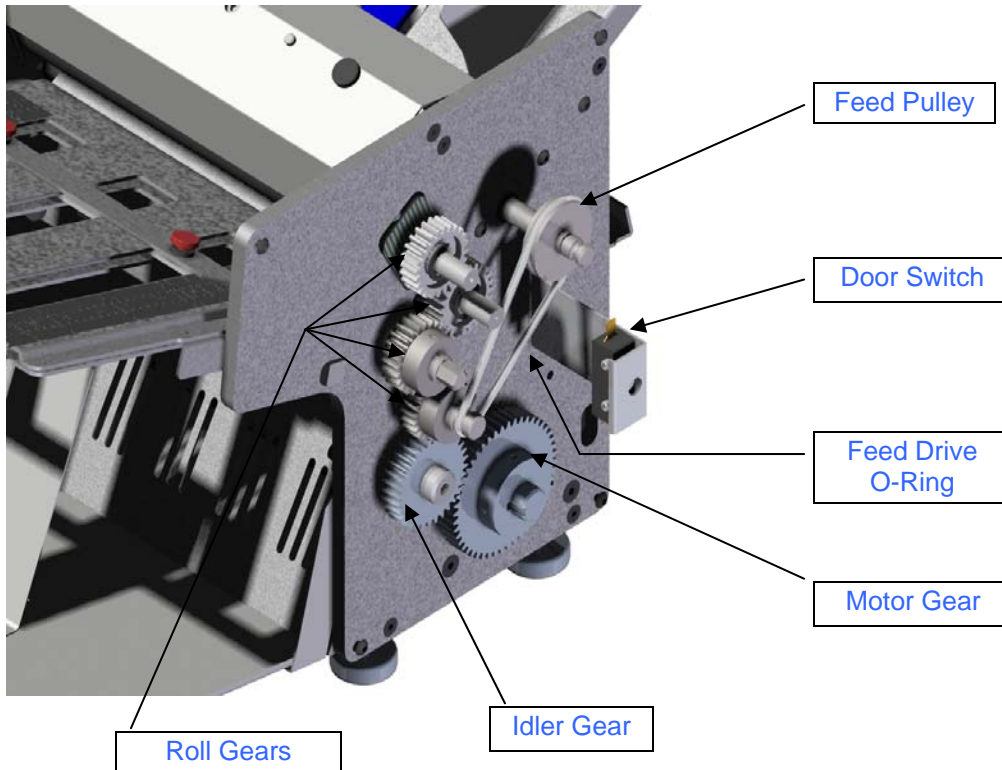


Figure 6: Drive Train

Removing the Drive Train Components

1. Remove the **Feed Drive O-ring** [Figure Error! Not a valid link.].
2. Remove the **Roll Gears** [Figure Error! Not a valid link.].
 - a. Remove the ½" E-clips from the shafts of the two upper rollers.
 - b. Loosen both set screws 2-3 turns.
 - c. Pull the gear off of the roll.
 - d. Remove the key from the roll.
3. Remove the **Motor Gear** [Figure Error! Not a valid link.].
 - a. Loosen both set screws 2-3 turns.
 - b. Pull the gear off of the motor shaft.
 - c. Remove the key from the motor shaft.
4. Remove the **Idler Gear** by removing the shoulder-bolt on which it is mounted [Figure Error! Not a valid link.].
5. Remove the **Feed Pulley** [Figure Error! Not a valid link.].
 - a. Loosen the set screw 2-3 turns.
 - b. Pull the pulley off of the shaft.

Feed Assembly

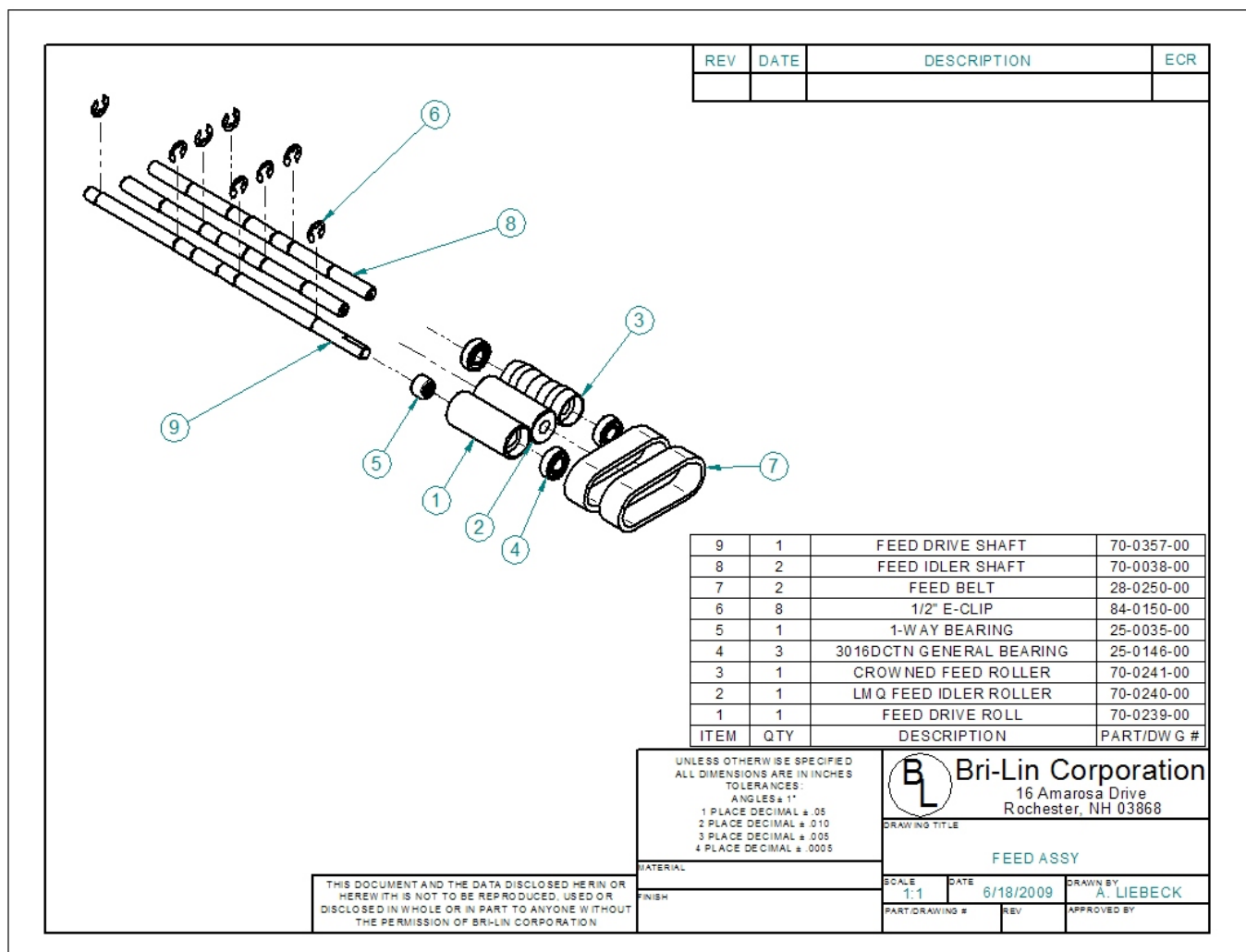


Figure 7: Feed Assembly

Servicing the Feed Drive System

1. Remove the **Electrical Side Cover** [Figure Error! Not a valid link.].
2. Remove the **Feed Table Screws** and the **Feed Idler Screw** from the **Electrical Side** [Figure Error! Not a valid link.].
3. Remove the **Motor Side Frame** [see section above].
4. The **Feed Idler Shaft** and the **Feed Drive Shaft** can now be removed if needed [Figure Error! Not a valid link.].
5. The **Feed Drive Roller** and **Crowned Feed Idler** can now be removed for service by removing the **E-Clips**. The **Feed Drive Roller** contains a **1-Way Bearing**, which should always face the **Electrical Side Frame** when re-assembled [Figure Error! Not a valid link.].

Replacing the Feed Belt

1. Remove the **Motor** and **Electrical** side covers.
2. Remove the **Feed Idler Screws** from both side frames.
3. Remove all 4 **E-Clips** from the **Feed Drive Shaft**.
4. Remove the **Feed Drive O-Ring** from the **Drive Train**.
5. You may now remove the **Feed Drive Shaft** from the main chassis by pulling it out from the gear side. The **Feed Drive Roller** will slide off of the shaft as it is removed.
6. Remove the **Feed Idler Shaft** from the machine along with the feed belt.
7. Replace the **Feed Belt**.
8. Re assemble the **Feed System** in the reverse order of removal.

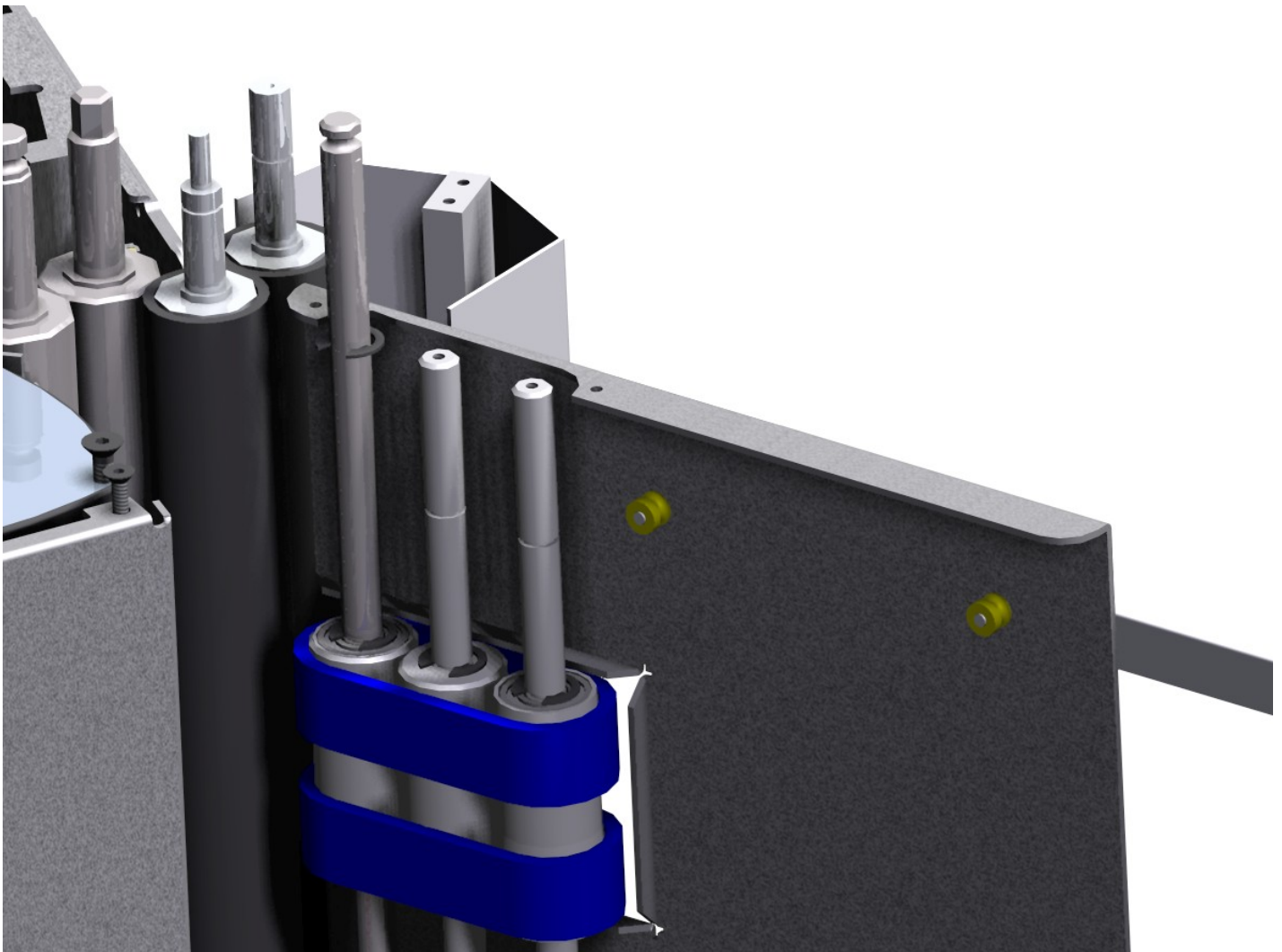


Figure 8: Feed Table with Side Frame Removed

Feed Gauge

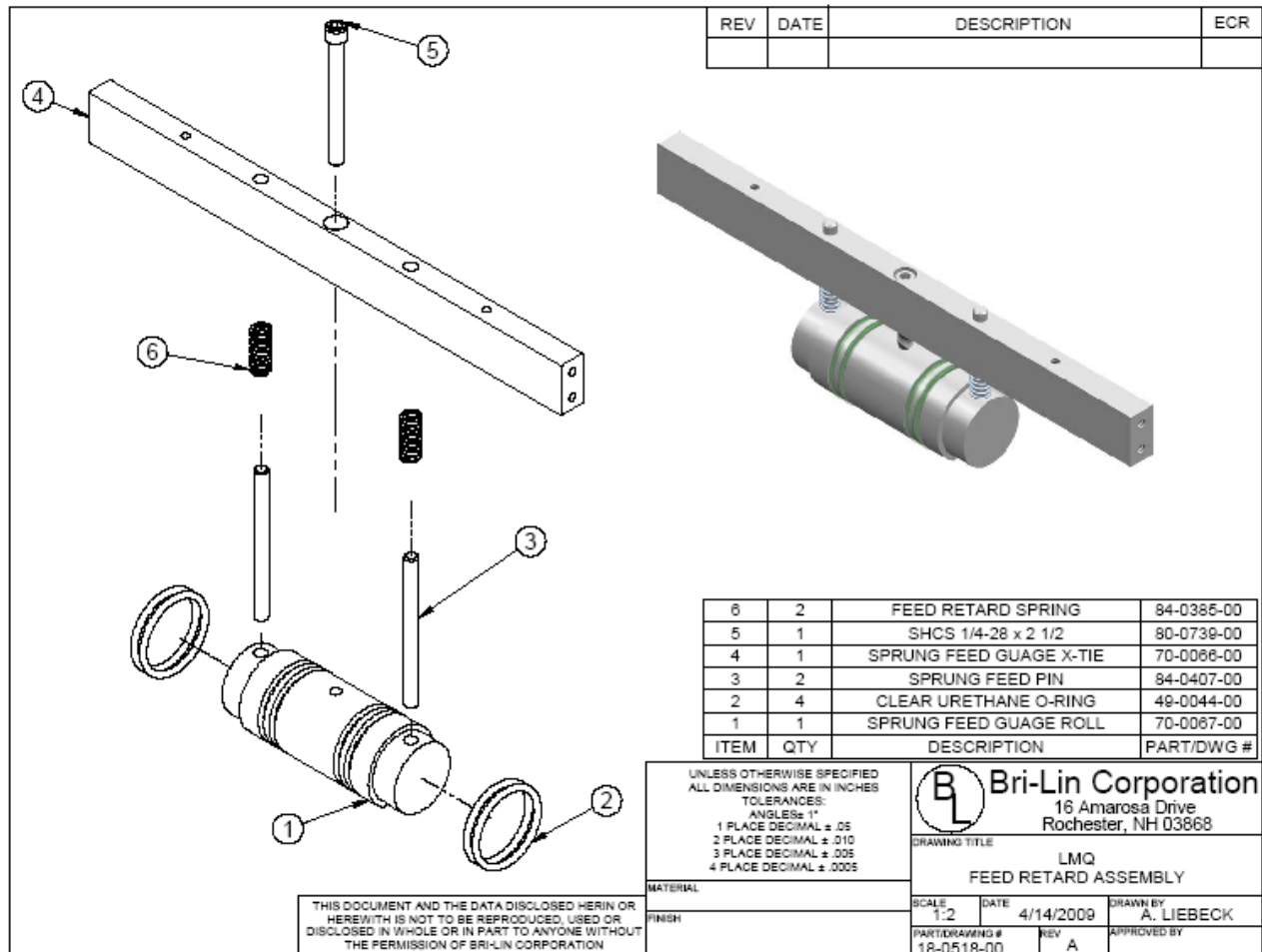


Figure 8: Feed Gauge Assembly

Removing the Feed Gauge System and replacing O-Rings

⚠ It is not necessary to remove either **Side Frame** to remove the **Feed Gauge System**.

1. Remove both **Side Covers** [Figure Error! Not a valid link.].
2. Remove the **Feed Gauge Cover** [Figure Error! Not a valid link.].
3. Loosen by 2 turns the **Feed Table**, **Feed Idler**, **Conveyor**, and **Front & Rear Motor Guard Screws** on the **Motor Side Frame** [Figure Error! Not a valid link.].
4. Remove the **Feed Gauge Screws** from both sides [Figure Error! Not a valid link.].
5. Pull the **Feed Gauge Assembly** up and out of the machine.
6. Remove the **Feed Adjusting Screw** from the **Feed Gauge Assembly**.
7. Remove the **Feed gauge roll** from the assembly.
8. Remove the old **O-Rings**.
9. Place new **O-Rings** onto roll and ensure that the weld seams on the **O-Rings** will not make contact with the paper.

Ensure that the weld seams on the o-rings do not make contact with paper after re-assembly.

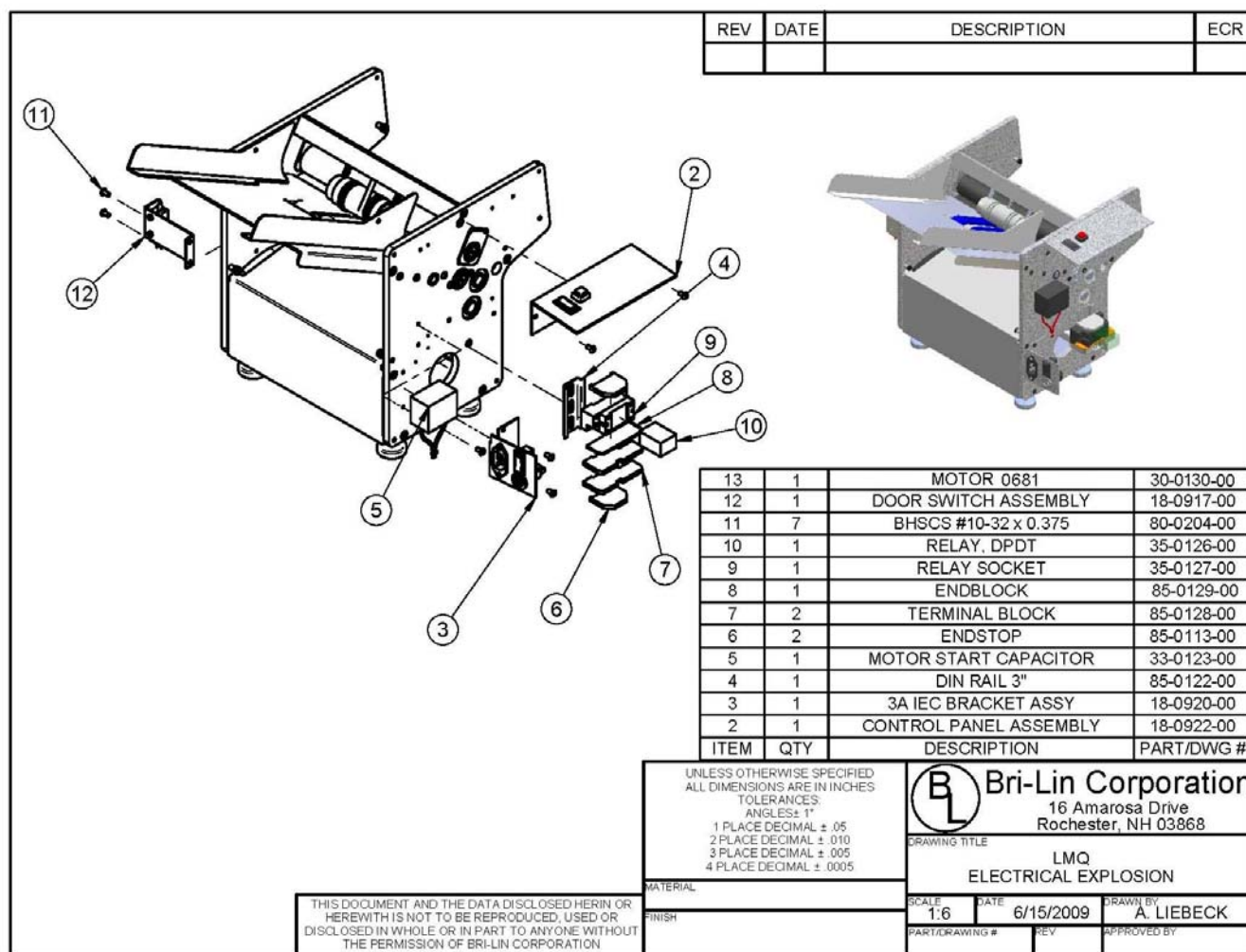


Figure 9: Electrical Assembly

⚠ Warning: Disconnect **Power Cord** from machine before servicing machine.

Replacing the Motor Start Capacitor

⚠ Warning: Never allow the leads of the **Capacitor** to touch or become bridged! It may contain residual charge which could be hazardous to your safety.

1. Disconnect the **Capacitor** from the **Run / Stop Switch** [Figure Error! Not a valid link.].
2. Disconnect the **Capacitor** from the **Motor** [Figure Error! Not a valid link.].
3. Unscrew the **Capacitor Mount Screw** [Figure Error! Not a valid link.].
4. Fasten the new **Capacitor** to the **Side Frame**.
5. Connect the new **Capacitor** to the **Run / Stop Switch** [Figure Error! Not a valid link.].
6. Connect the new **Capacitor** to the **Motor** [Figure Error! Not a valid link.].

Replacing the Motor

Figure 11 is for reference only

1. Remove both **Side Covers** [Figure Error! Not a valid link.].
2. Disconnect the **Capacitor** from the **Motor** [Figure Error! Not a valid link.].
3. Disconnect the **Breaker** from the **Motor** [Figure Error! Not a valid link.].
4. Remove the **Ground Screw** [Figure Error! Not a valid link.].
5. Disconnect the **Breaker** from the **Motor** [Figure Error! Not a valid link.].
6. Remove the **Ground Screw** [Figure Error! Not a valid link.].
7. Remove the **Rear Motor Cover**, and **Motor Mounting Screws**.
8. Remove the **Motor**.
9. Slide the new **Motor** in place and mount with **Motor Mounting Screws**.
10. Slip the **Motor Ground Wire** over the **Ground Screw** and re-attach it [Figure Error! Not a valid link.].
11. Connect the **Motor** to the **Breaker** [Figure Error! Not a valid link.].
12. Connect the **Motor** to the **Capacitor** [Figure Error! Not a valid link.].
13. Re-attach the **Side Covers** [Figure Error! Not a valid link.].

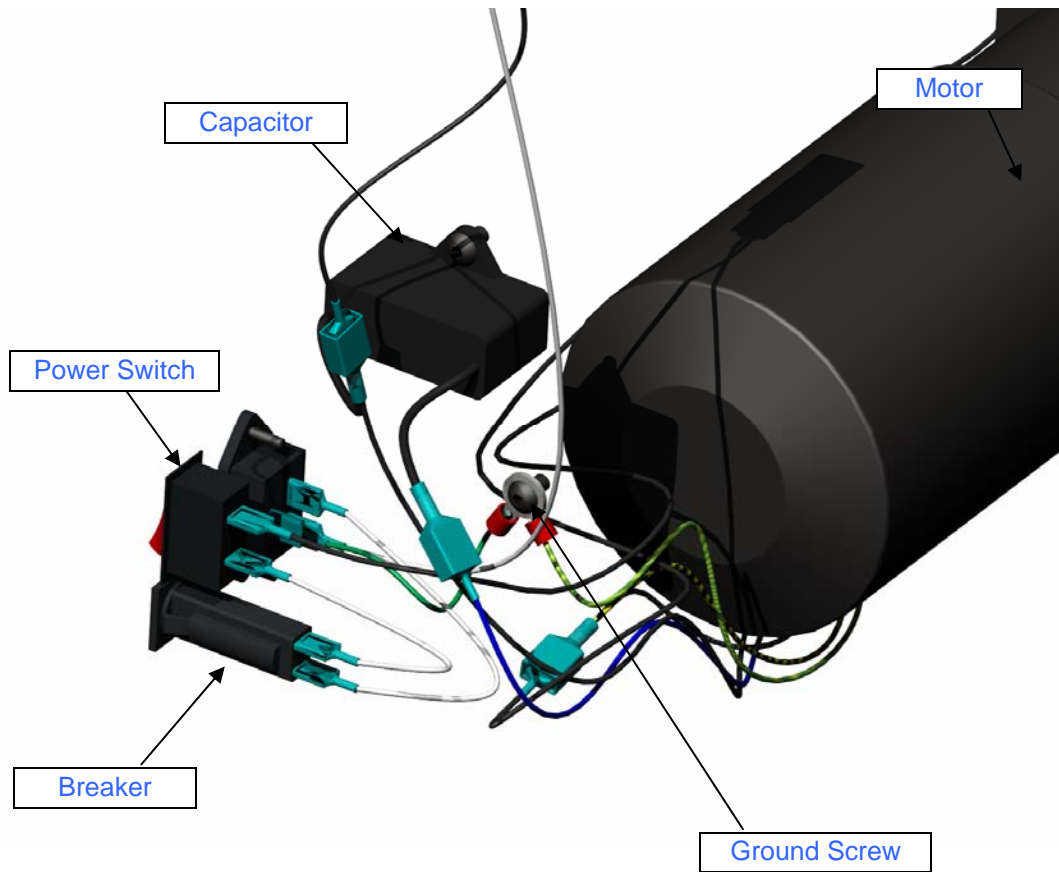
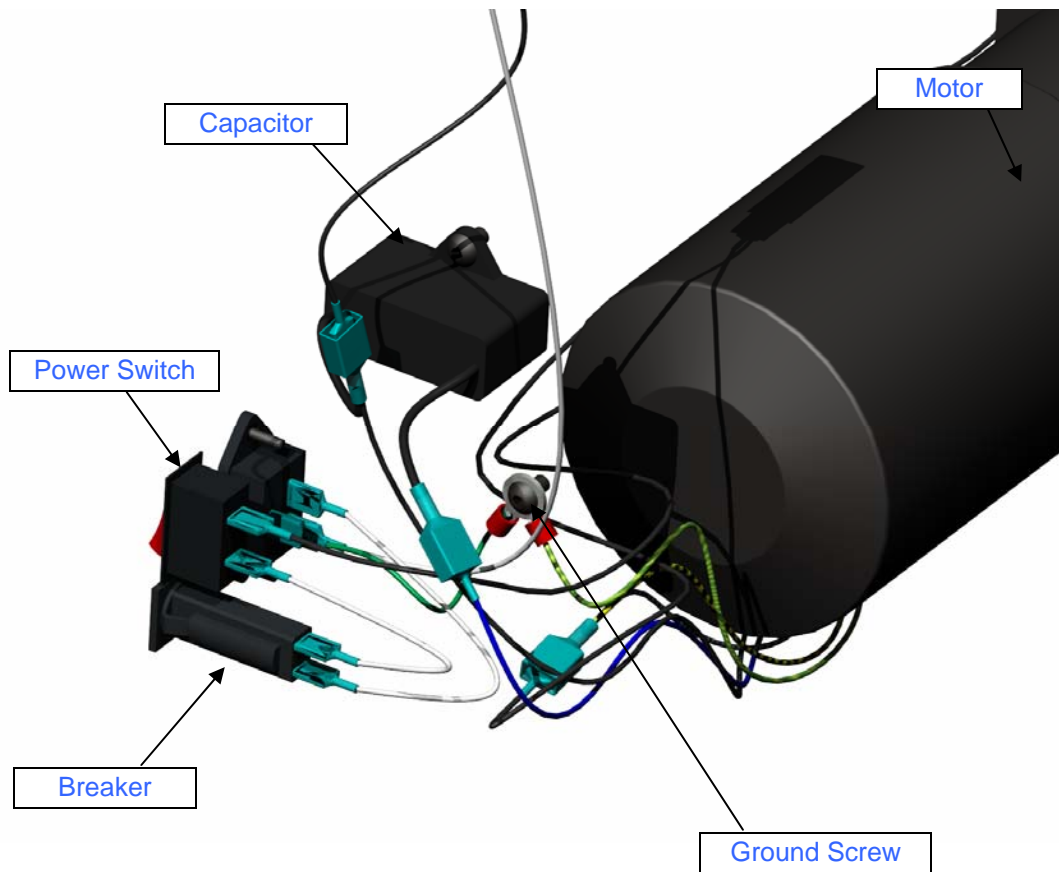


Figure 10: Wiring

Replacing the Breaker *Part #36-0391-00, Breaker, 3 AMP*

⚠ If the breaker will not reset, then it may need to be replaced.

1. Remove the **Electrical Side Cover**.
2. Disconnect the two leads from the rear of the **Breaker**.
3. Depress the two spring arms which hold the **Breaker** in the **IEC Bracket** to remove the **Breaker**.
4. Insert the new **Breaker**.
5. Attach the two leads to the rear of the new **Breaker**.
6. Re-attach the **Electrical Side Cover**.



THIS DRAWING IS FOR REFERENCE ONLY

NOTE: Actual Circuit Breaker may look different than drawing, always refer to part number when ordering

3K / LMQ Basic Schematic
4/7/05

NOTE: To reverse Motor , swap Black and Black-yellow wires

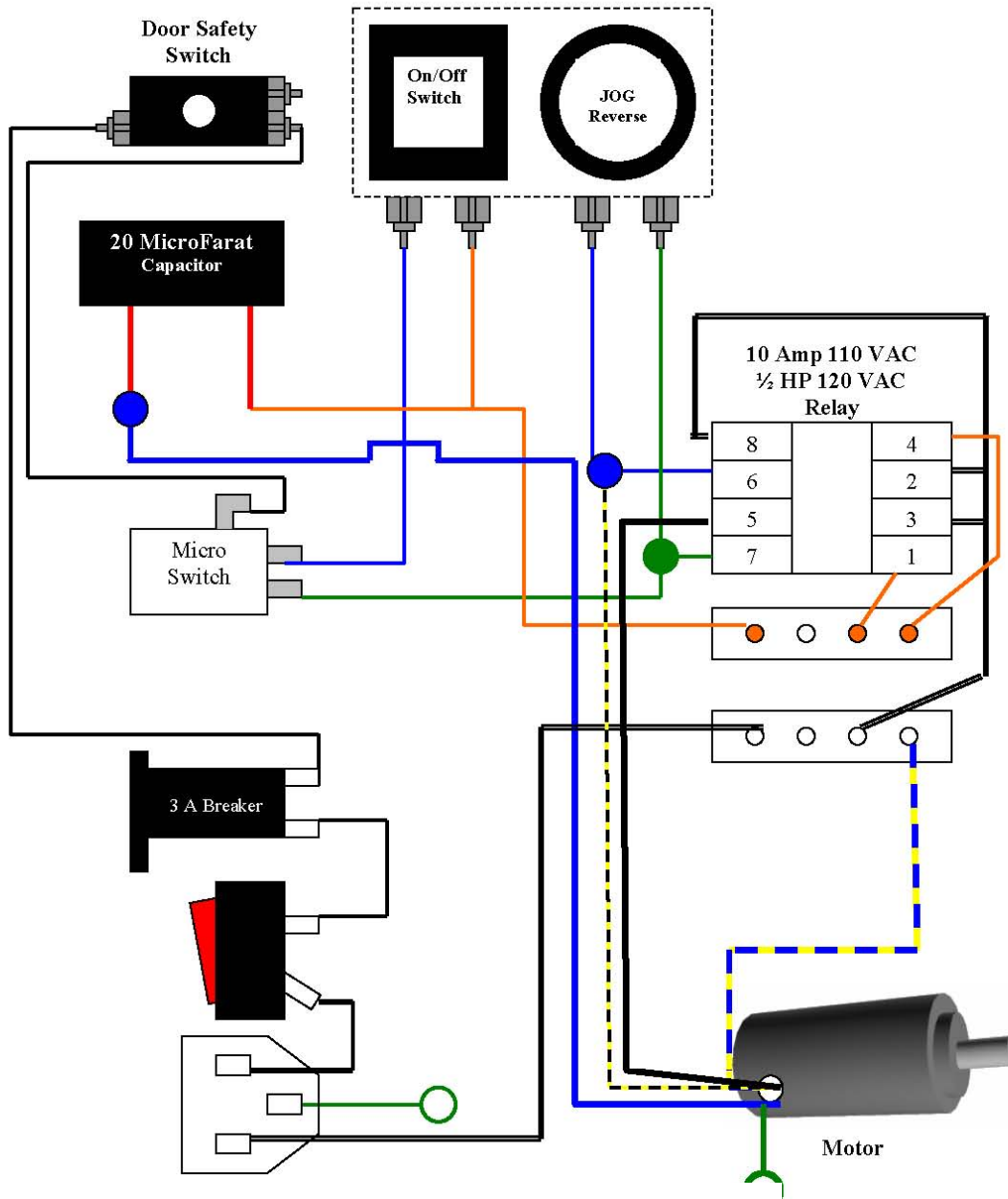


Fig. 13: Schematic

Exploded Views

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ITEM	QTY	DESCRIPTION	PART/DWG #
8	1	ALUM BLOCK/EXT CONV SPRING	84-0608-00
7	2	BHSCS 10-32 x 3/8	80-0204-00
6	1	FLOATING ROLL BLOCK, BB	70-0777-00
5	1	BUSHING 0.500 ID	25-0052-00
4	2	3016DCTN GENERAL BEARING	25-0146-00
3	2	1623DCTN NICE BEARING	25-1103-00
2	5	SHOULDER SCREW 1/4 x3/8	80-0155-00
1	1	MOTOR SIDE FRAME	70-0978-00D

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES: 1°

1 PLACE DECIMAL ± .05
2 PLACE DECIMAL ± .010
3 PLACE DECIMAL ± .005
4 PLACE DECIMAL ± .0005

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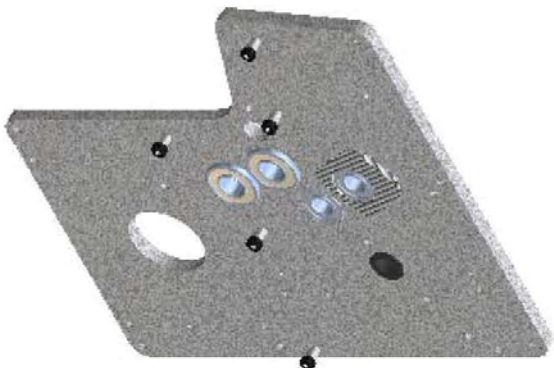
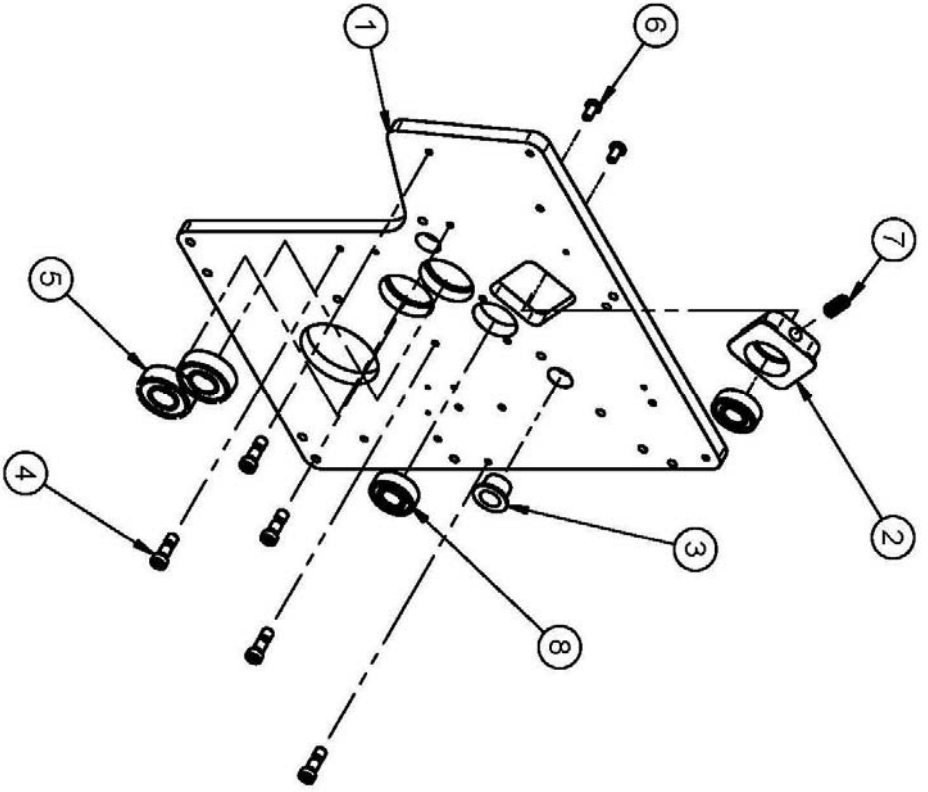
Bri-Lin Corporation
16 Amaroza Drive
Rochester, NH 03868

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ISM

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PART/DRAWING #: 18-0946-00B

DRAWN BY: A. LIEBECK
APPROVED BY: [Signature]


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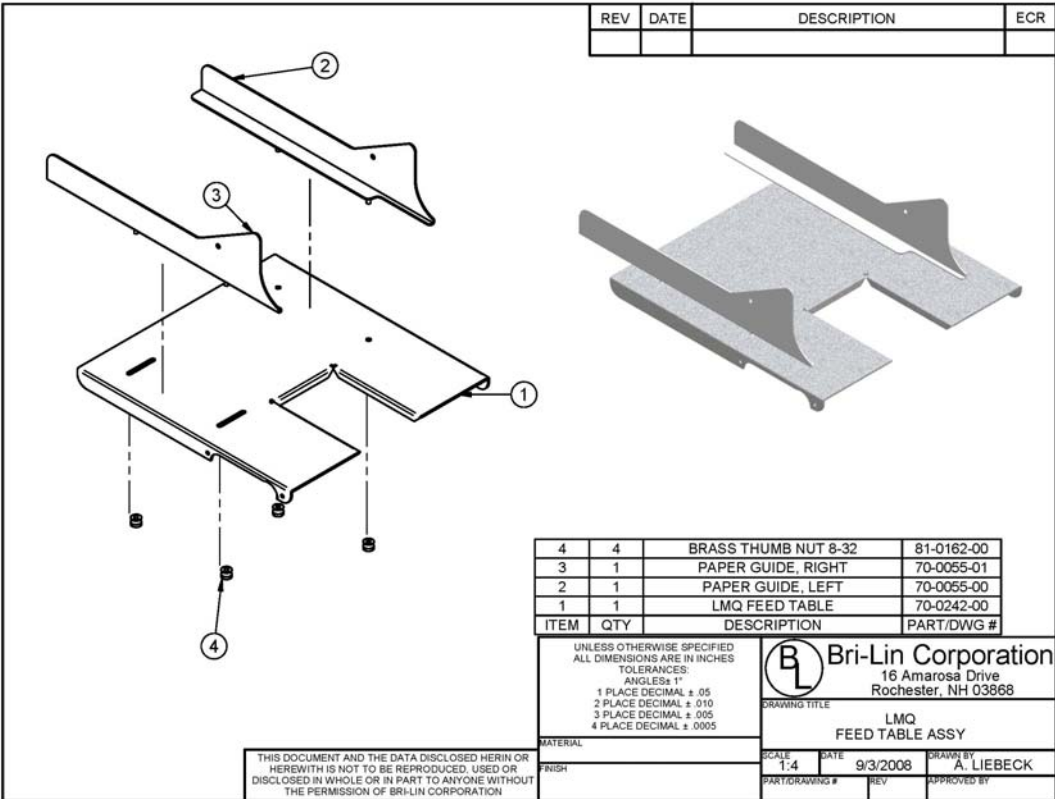
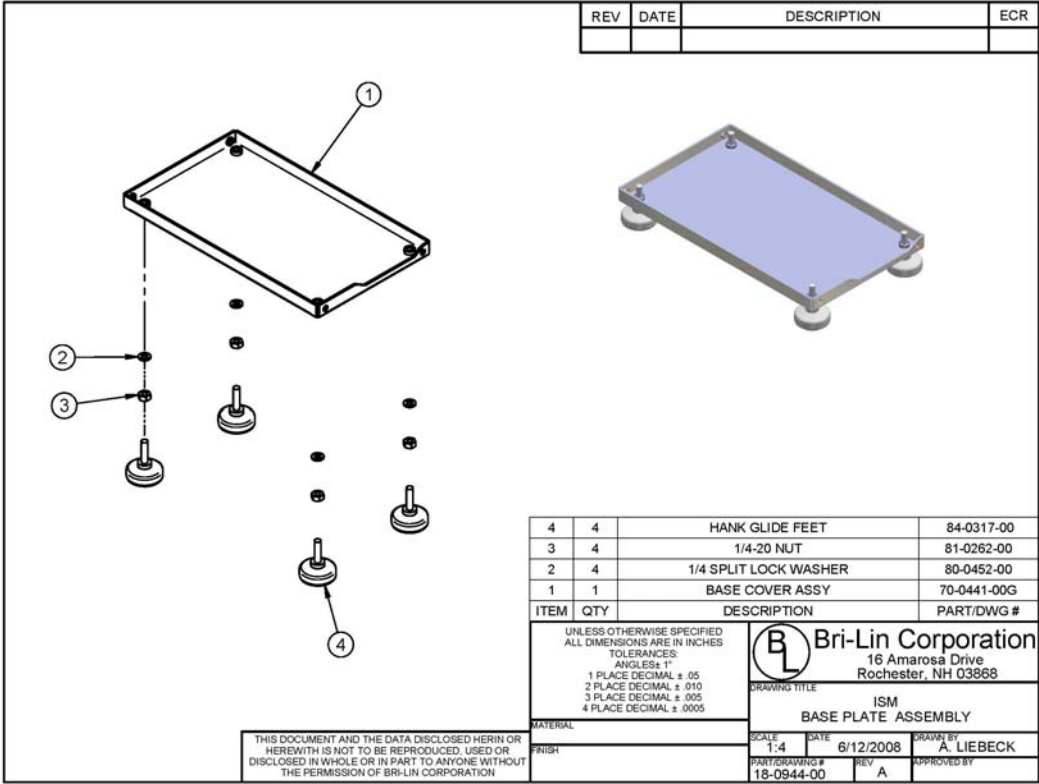


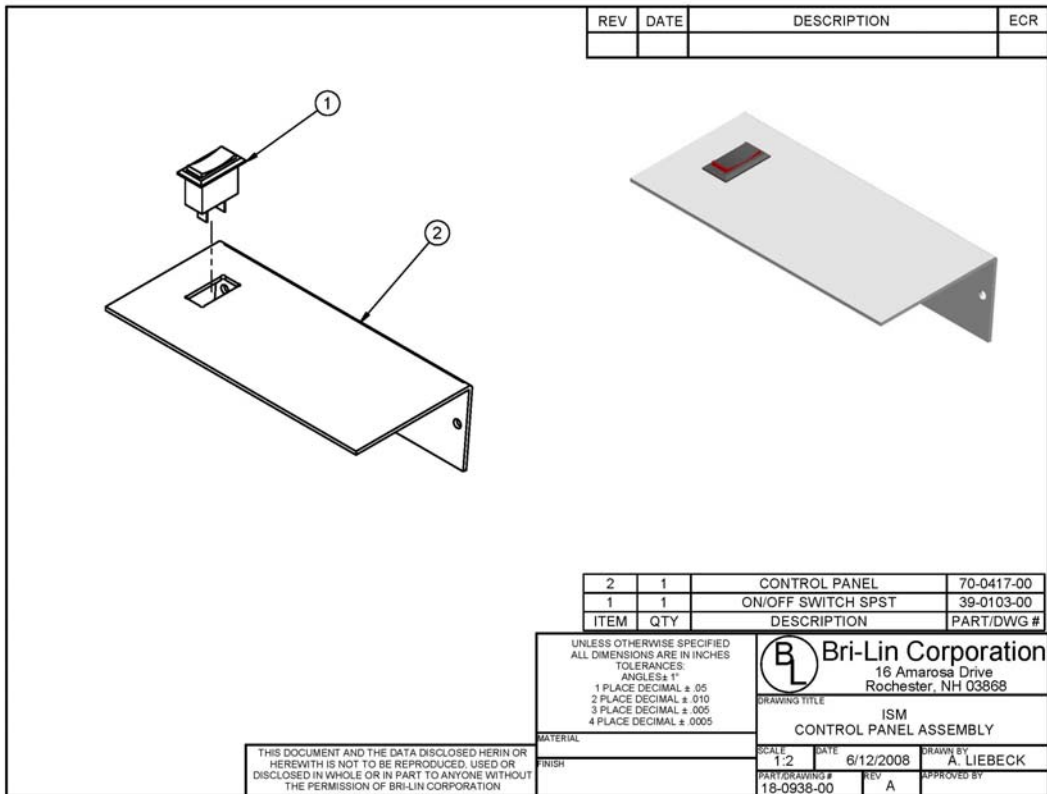
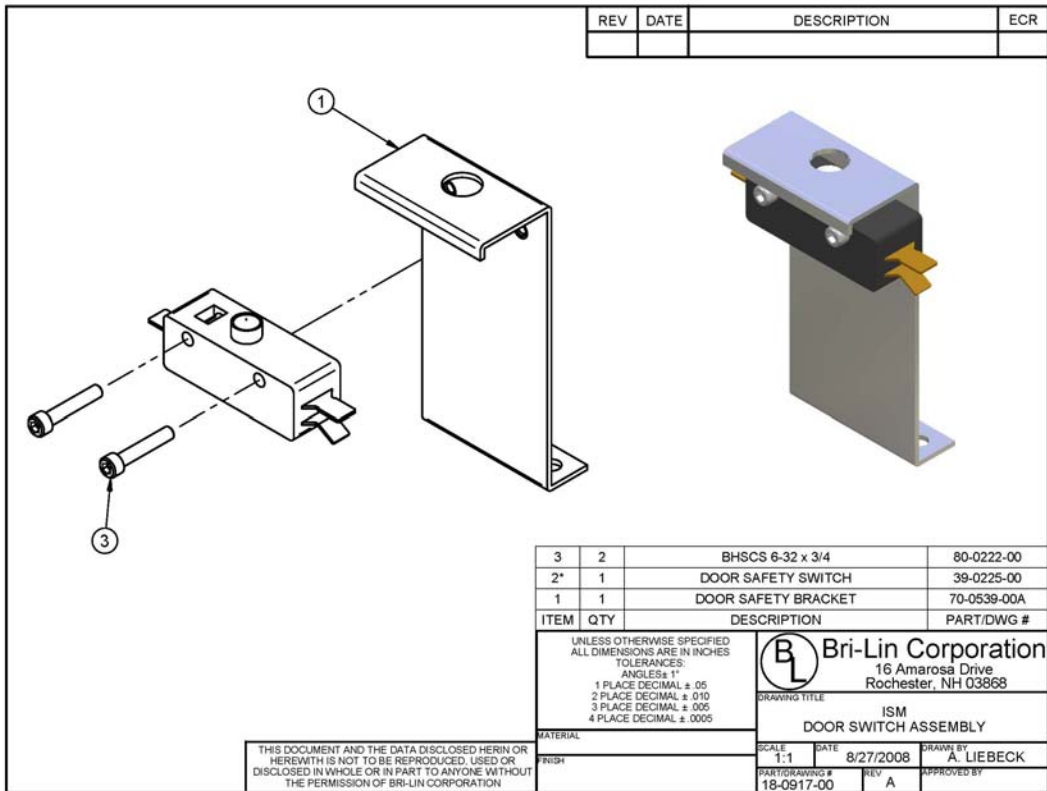
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6	2	BHSCS 10-32 X 3/8	80-0204-00
5	2	1623DCTN NICE BEARING	25-1103-00
4	5	SHOULDER SCREW 1/4 X3/8	80-0155-00
3	1	BUSHING 0.500 ID	25-0052-00
2	1	FLOATING ROLL BLOCK, BB	70-0777-00
1	1	ELECTRICAL SIDE FRAME	70-0977-00

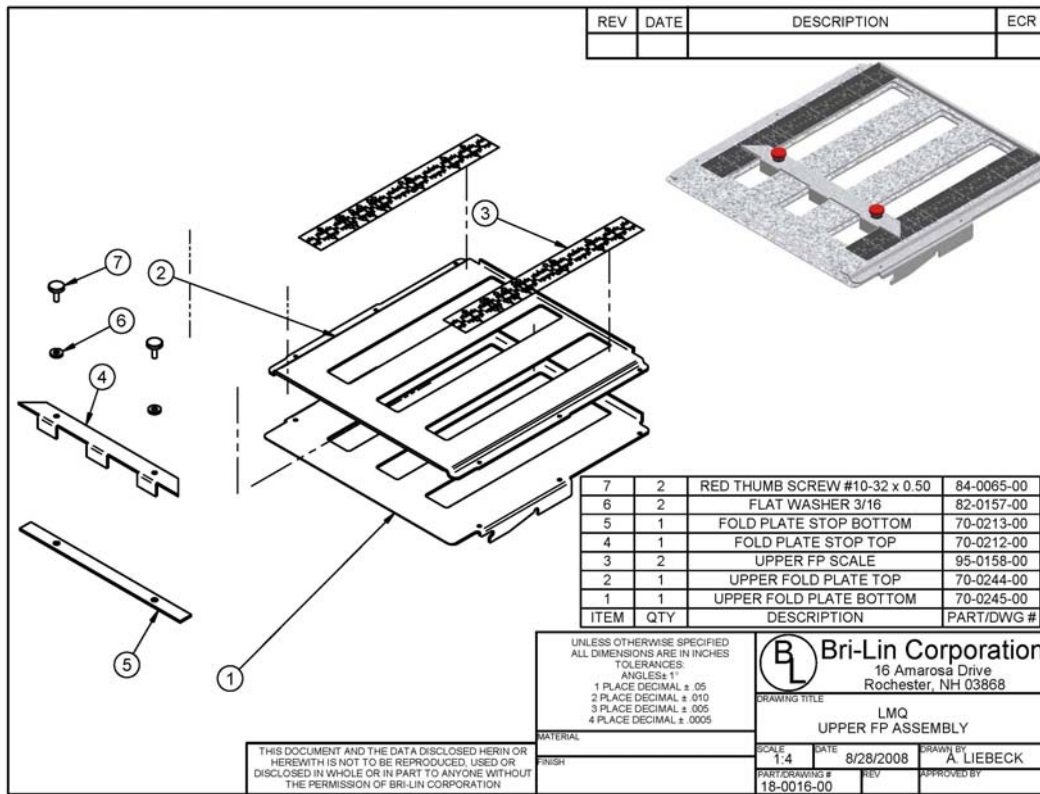
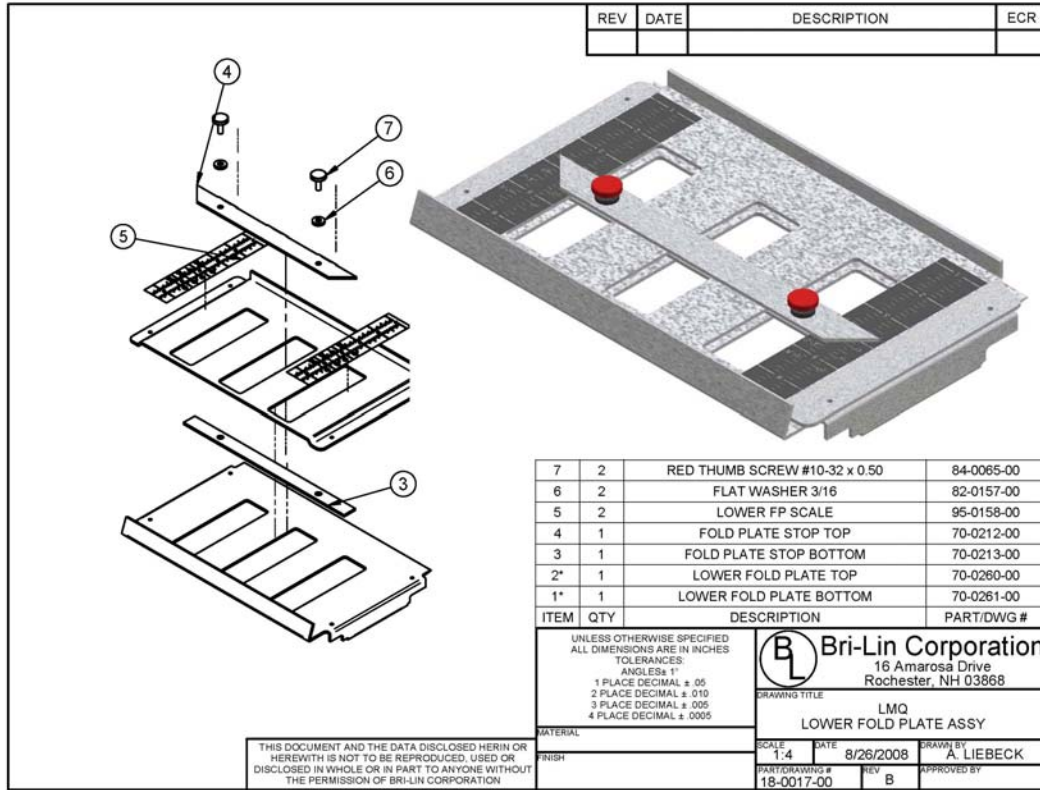
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 Bri-Lin Corporation 16 Amaroza Drive Rochester, NH 03868			

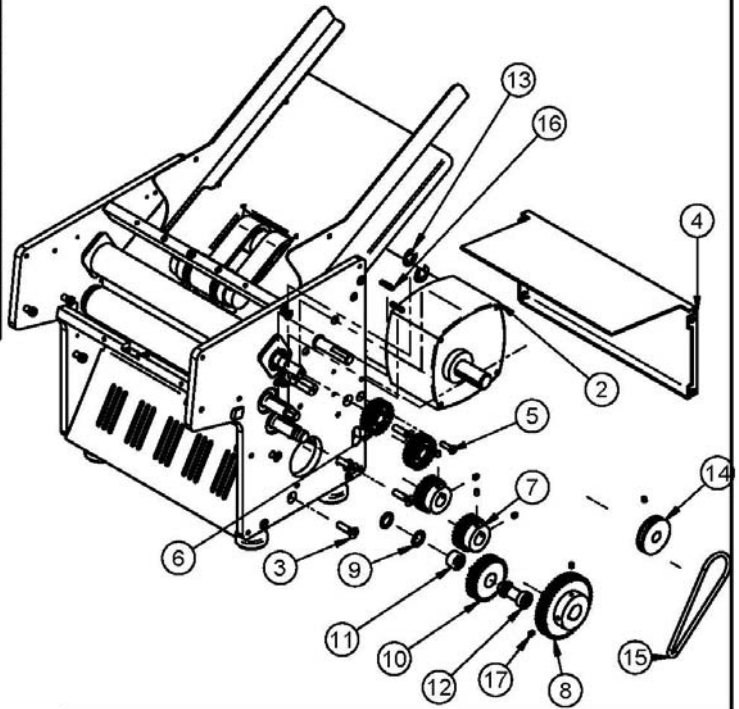
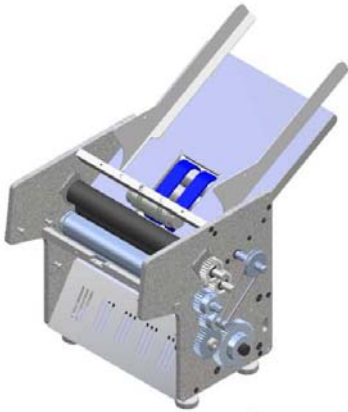






17	7	10-32 x 1/4 SET SCREW	80-0188-00
16	2	1/8 KEY	84-0042-00
15	1	FEED DRIVE O-RING	28-0862-00
14	1	ISM-LMQ FEED PULLEY	70-0273-00
13	2	1/2" E-CLIP	84-0150-00
12	1	SHOULDER SCREW, 1/2 x 3/4	80-0169-00
11	1	1-WAY BEARING	25-0035-00
10	1	ISM / LMQ / LMQII IDLER GEAR	26-0026-00
9	3	NYLON WASHER	82-0776-00
8	1	LMQ / LMQII MOTOR GEAR	26-0040-00
7	2	ISM / LMQ / LMQII ROLL GEAR	26-0248-00
6	2	FLOATING ROLL GEAR	26-0818-00
5	1	FHSCS 10-32 x 0.750	80-0152-00
4	1	REAR MOTOR COVER	70-0247-00
3	4	FHSCS 1/4-28 x 1	80-0207-00
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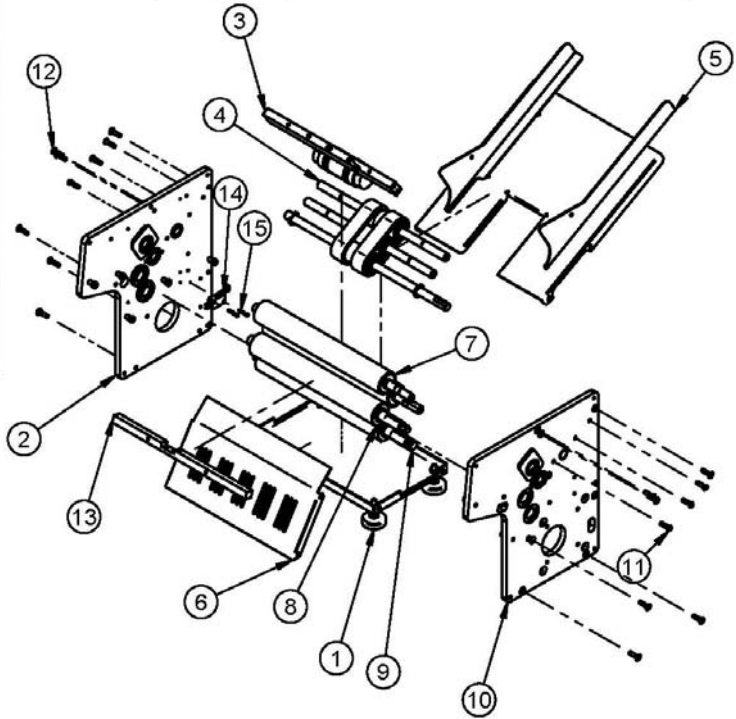
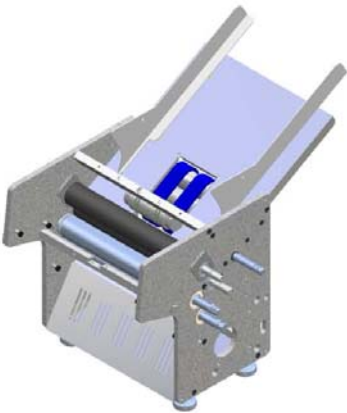


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DRAWING TITLE LMQ DRIVE TRAIN EXPLODED VIEW			
SCALE 1:6	DATE 8/17/2009	DRAWN BY A. LIEBECK	
PART/DRAWING #	REV	APPROVED BY	

15	2	SCREW, BHSCS #4-40 x0.750	80-0517-00
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13	1	SENSOR MOUNT X-TIE, ELONGATED	70-0781-00
12	11	FHSCS 10-32 x 0.750	80-0152-00
11	7	SCREW, BHSCS #10-32 x 0.750	80-0148-00
10	1	MOTOR SIDE FRAME ASSEMBLY	18-0946-00
9	1	ROLL #2, CONVEYOR DRIVE	70-0233-00
8	1	HEX END ROLL	70-0234-00
7	2	LMQ URETHANE FLOATING ROLL	70-0232-00
6	1	FRONT MOTOR COVER	70-0246-00
5	1	FEED TABLE ASSY	18-0018-00
4	1	FEED ASSY	18-0912-00
3	1	FEED RETARD ASSEMBLY	18-0518-00
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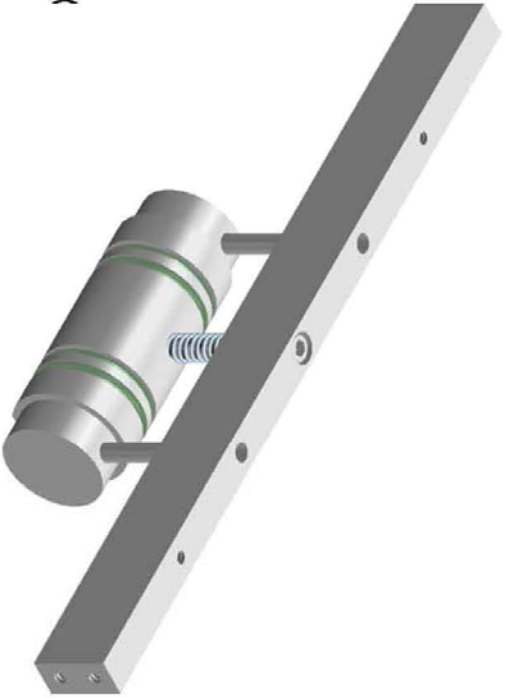
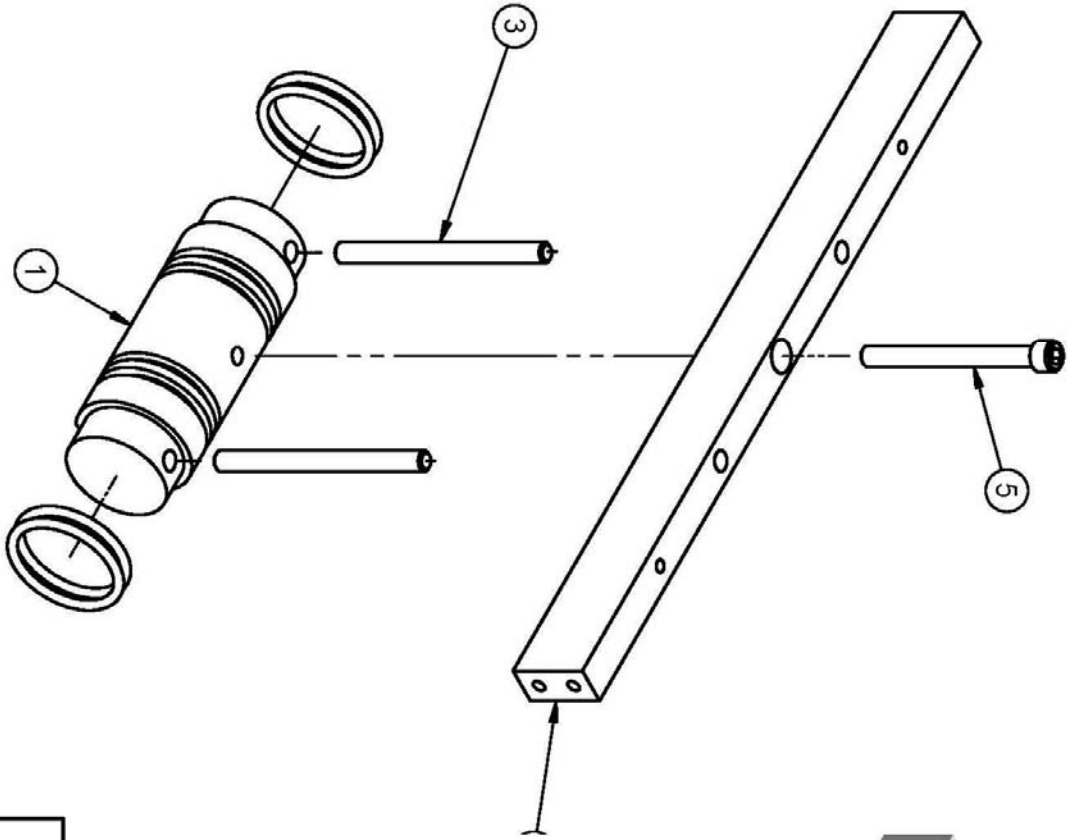
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18-0264-00			

REV	DATE	DESCRIPTION	ECR



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4	1	SPRUNG FEED GAUGE X-TIE	70-0066-00
3	2	SPRUNG FEED PIN	84-0407-00
2*	4	CLEAR URETHANE O-RING	49-0044-00
1	1	SPRUNG FEED GAUGE ROLL	70-0067-00

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ALL DIMENSIONS ARE IN INCHES
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2 PLACE DECIMAL ± .010
3 PLACE DECIMAL ± .005
4 PLACE DECIMAL ± .0005

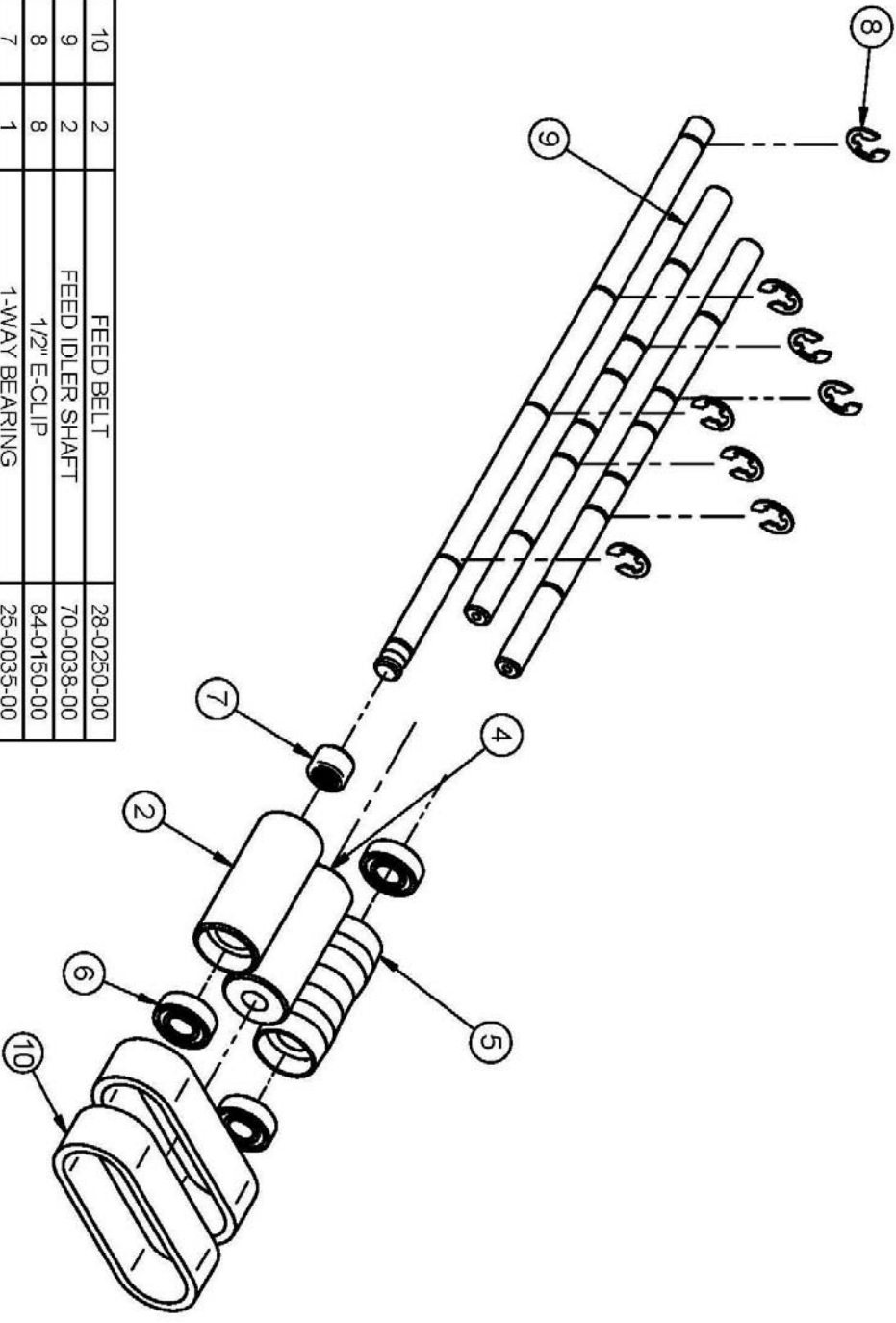
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Bri-Lin Corporation
16 Amaroosa Drive
Rochester, NH 03868

DRAWING TITLE: **LMQ FEED RETARD ASSEMBLY**

REV	DATE	DESCRIPTION	ECR



ITEM	QTY	DESCRIPTION	PART/DWG #
10	2	FEED BELT	28-0250-00
9	2	FEED IDLER SHAFT	70-0038-00
8	8	1/2" E-CLIP	84-0150-00
7	1	1-WAY BEARING	25-0035-00
6	3	3016DCTN GENERAL BEARING	25-0146-00
5	1	CROWNED FEED ROLLER	70-0241-00
4*	1	LMQ FEED IDLER ROLLER	70-0240-00
2	1	FEED DRIVE ROLL	70-0239-00
1*	1	FEED DRIVE SHAFT	70-0357-00

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UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES ± 1°
1 PLACE DECIMAL ± .05
2 PLACE DECIMAL ± .010
3 PLACE DECIMAL ± .005
4 PLACE DECIMAL ± .0005

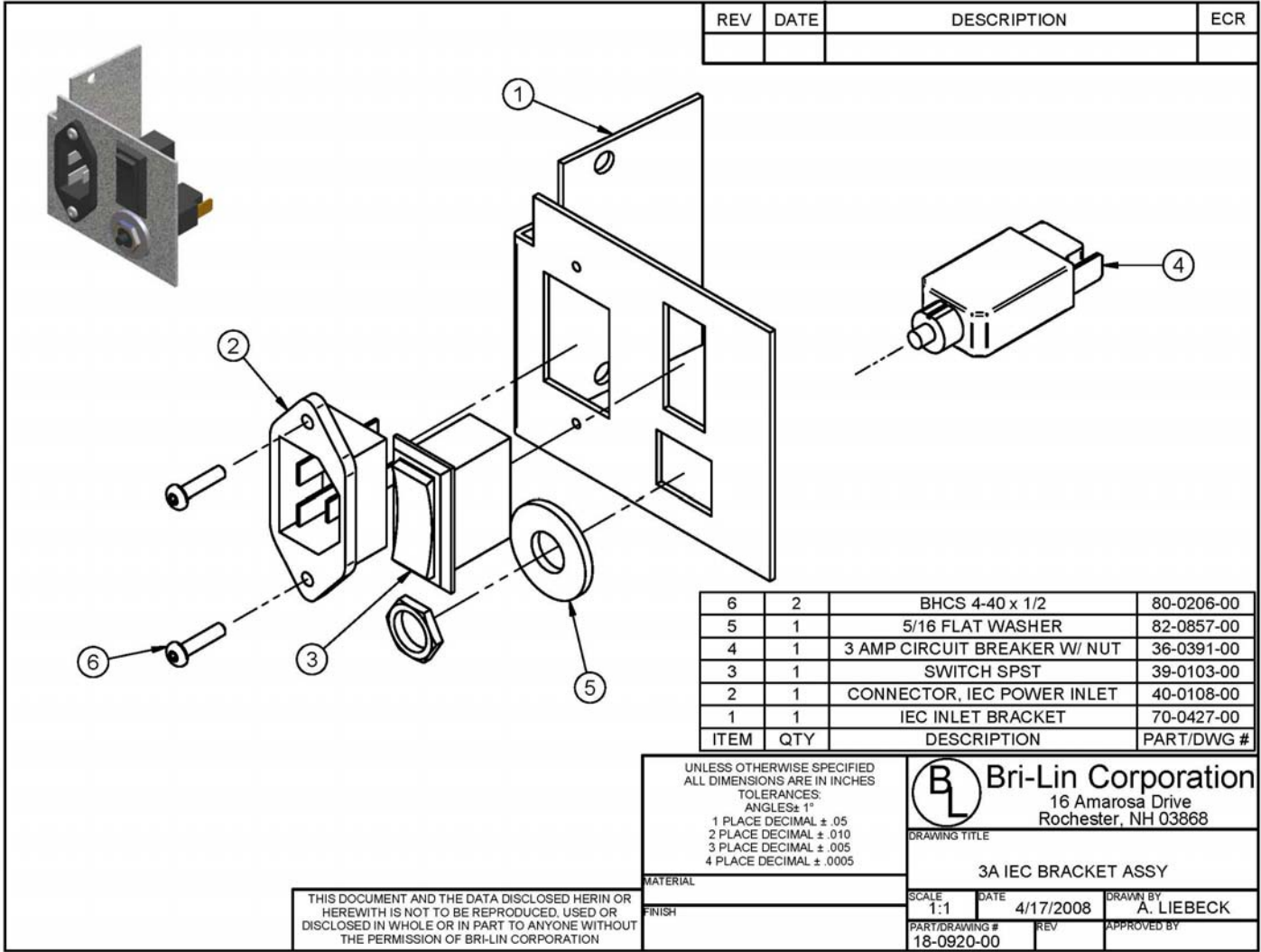
MATERIAL FINISH
PART/DWG # 18-0912-00

Bri-Lin Corporation
16 Amaraosa Drive
Rochester, NH 03868

DRAWING TITLE
LMQ FEED ASSY

SCALE 1:3
DATE 9/3/2008
PART/DRAWING # 18-0912-00

APPROVED BY
A. LIEBECK



REV	DATE	DESCRIPTION	ECR

6	2	BHCS 4-40 x 1/2	80-0206-00
5	1	5/16 FLAT WASHER	82-0857-00
4	1	3 AMP CIRCUIT BREAKER W/ NUT	36-0391-00
3	1	SWITCH SPST	39-0103-00
2	1	CONNECTOR, IEC POWER INLET	40-0108-00
1	1	IEC INLET BRACKET	70-0427-00
ITEM	QTY	DESCRIPTION	PART/DWG #

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 2 PLACE DECIMAL ± .010
 3 PLACE DECIMAL ± .005
 4 PLACE DECIMAL ± .0005

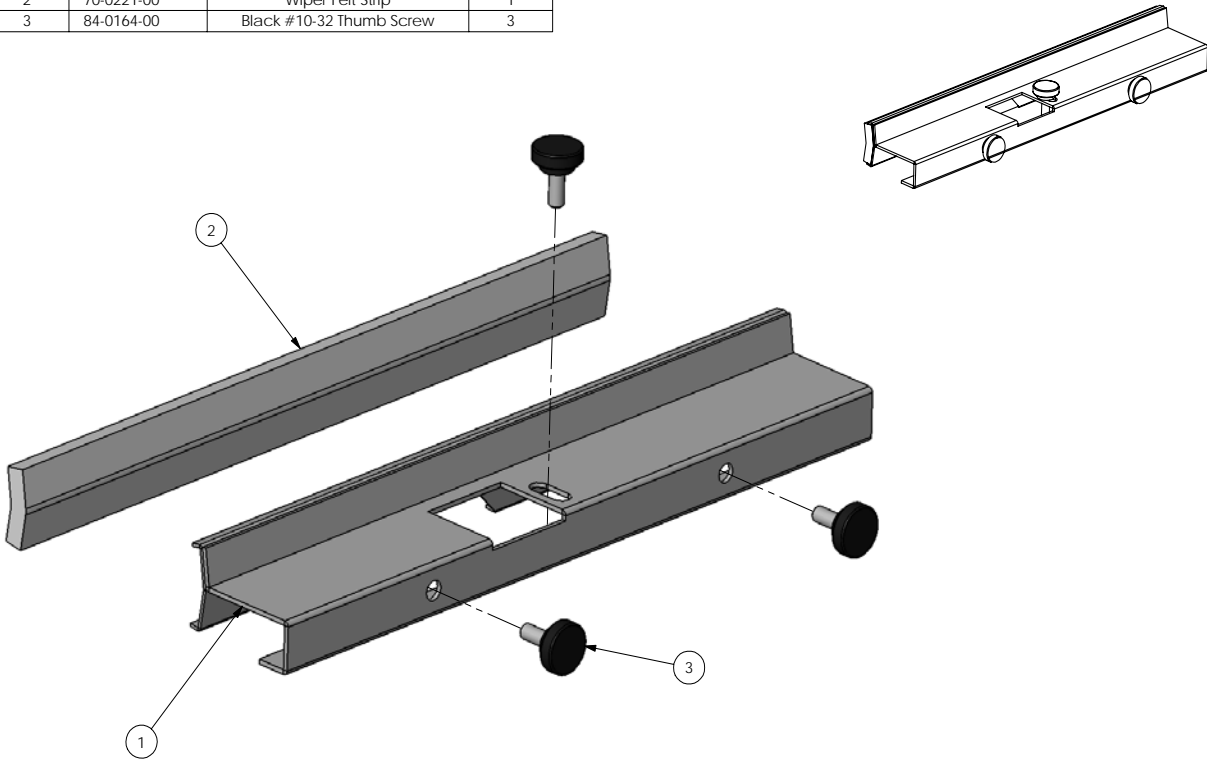
B Bri-Lin Corporation
 16 Amarosa Drive
 Rochester, NH 03868

DRAWING TITLE
3A IEC BRACKET ASSY

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MATERIAL	SCALE 1:1	DATE 4/17/2008	DRAWN BY A. LIEBECK
FINISH	PART/DRAWING # 18-0920-00	REV	APPROVED BY

ITEM	PartNo	DESCRIPTION	QTY.
1	70-0220-00	Felt Holder	1
2	70-0221-00	Wiper Felt Strip	1
3	84-0164-00	Black #10-32 Thumb Screw	3



UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES

TOLERANCES:
 ANGLES $\pm 1^\circ$
 1 PLACE DECIMALS $\pm .05$
 2 PLACE DECIMALS $\pm .010$
 3 PLACE DECIMALS $\pm .005$
 4 PLACE DECIMALS $\pm .0005$

BL Bri-Lin Corporation
 16 Amarosa Drive
 Rochester, NH 03868

DRAWING TITLE
WIPER ASSEMBLY

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MATERIAL	PART #	REVISION	DRAWN BY
	18-0219-00	A	AAS
FINISH	DRAWING #	SCALE	DRAWING DATE
	MD-0219-00	1:1.5	1/11/2005



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