BAUMFOLDER
CORPORATION
Quality Bindery Equipment Since 1917

2020 KICKER ASSEMBLY

INSTALLATION INSTRUCTIONS

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TP10324A

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WARNING

- Do not operate this machine without all guarding in place.
- Do not make adjustments or perform maintenance on this machine with power on.
- Keep the machine and the work area clean and free of spills to prevent accidents.
- Be sure to replace any safety decals that may have been detached for any reason.

BAUMFOLDER reserves the right to make changes in design or to make additions or improvements in its products without imposing any obligation upon itself to install them on its products previously manufactured. It is recommended that modifications to this equipment not be made without the advice and express written consent of BAUMFOLDER.

FOLDER IDENTIFICATION

MODEL NO: _____ SERIAL NO: _____

DEALER: _____

INSTALLED BY: _____ DATE: _____

PHONE NO: _____

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1.0 KIT INSTALLATION

Note:

This Feature is applicable only on Folders with the DCT500 Controller Installed.

CAUTION

ELECTRICAL SHOCK HAZARD PRESENT. THIS KIT SHOULD ONLY BE INSTALLED BY QUALFIED PERSONNEL.

Remove electrical power from the folder at the main circuit breaker panel. This will ensure that the installer will not come into contact with the main power leads at the folder disconnect switch.

If the kicker device is not assembled to the bracket, do so with the supplied hardware per drawing TP220-889-02-00 of this manual.

Install the assembled kicker device(Figure 1-1) on the square slitter shaft accessory spreader bar(Figure 1-2). The location of the kicker unit is dependent on the type and size of fold that is being made.

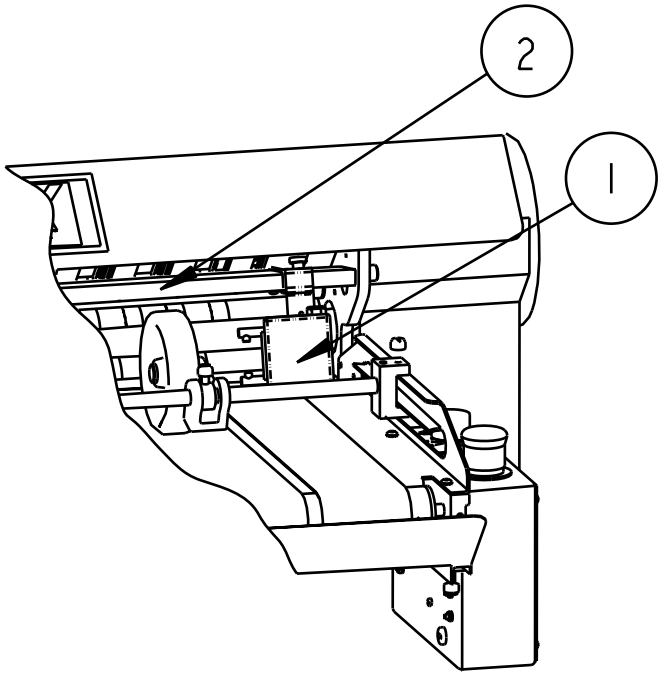


Figure 1

The location of the kicker unit, along the tie bar, is set so that the striker plate(Figure 2-1) of the plunger is approximately 1/8" from the right edge of the stock(Figure 2-2) as it exits the slitter assembly pullout tires(Figure 2-3).

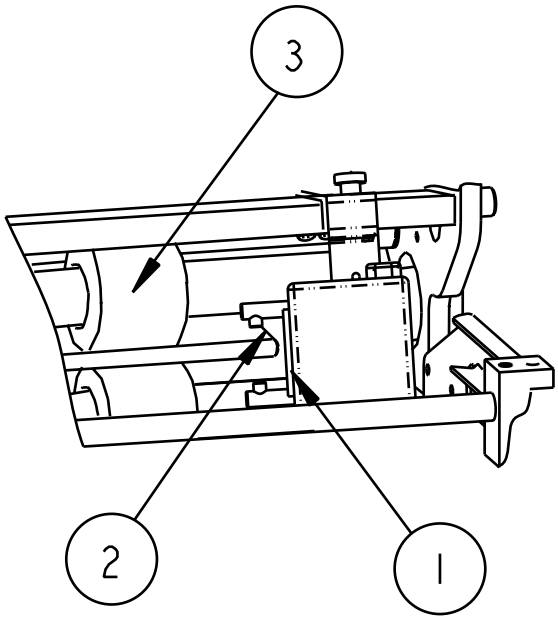


Figure 2

After locating the kicker unit, plug the connector into the 1X12 connector located on the side of the main control panel.

Open the door of the main control panel and find the DIN rail located in the upper left hand corner above the blue power transformer. Remove the hardware that attaches the rail to the box and rotate the rail 90 degrees(Figure 3-1).

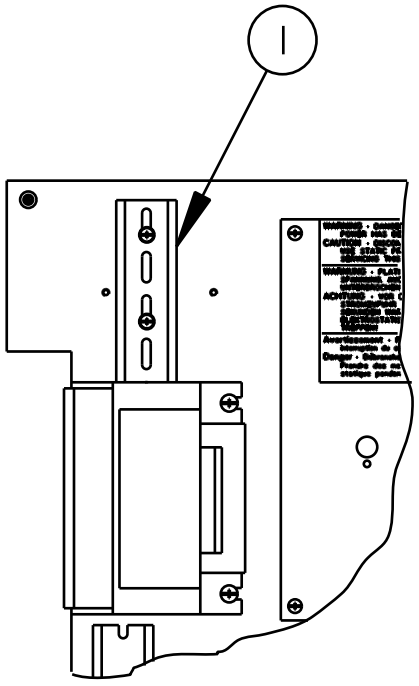


Figure 3

Install the kicker module, ***A20***(Figure 4-1), on the DIN rail in the upper left corner of the main electrical enclosure, as shown. Place the two cable tie anchors in the approximate location show in Figure 4-2.

Remove the protective plexiglass cover(Figure 5-1) that covers the main circuit board. Also remove the two wireway covers(Figure 5-2).

Install the wires from the kicker module, A20, per the wiring instructions of Figure 6. After installation of wires, replace plexiglass cover and two wireway covers. Cable tie wire bundle to anchors and cable tie the rest of new wiring to existing wires.

Close main electrical enclosure and reapply power to the folder.

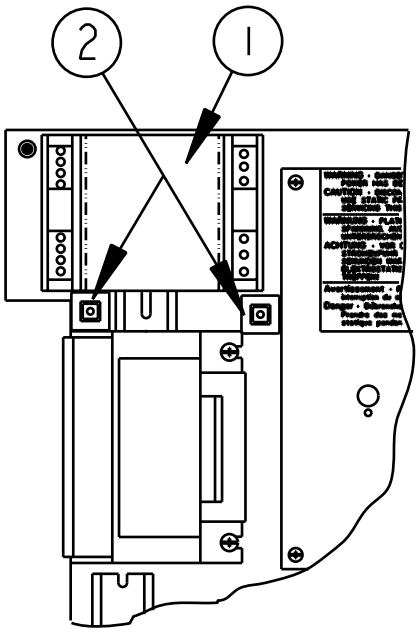


Figure 4

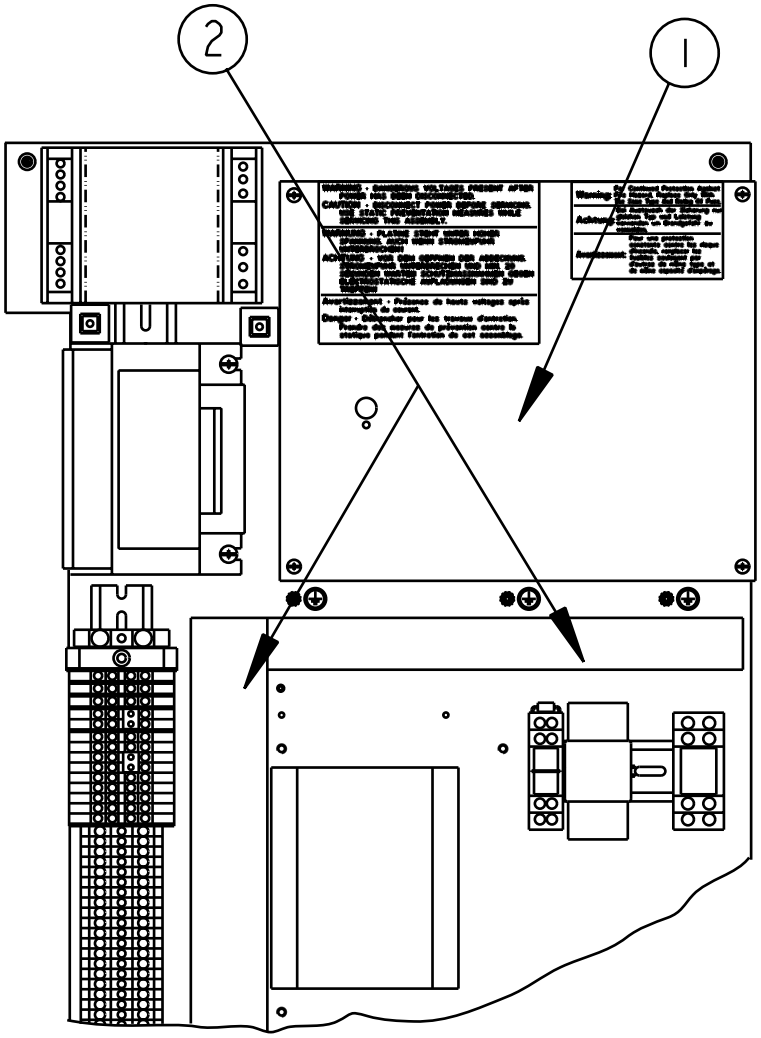


Figure 5

CKT NO.	COLOR	FROM	TO
5	BL	A20-X1-2	A1-2X25-4
6	BL	A20-X1-1	A1-2X25-3
1	BK	A20-X2-1	TB1-1
15	BK	A20-X2-2	TB1-15
GND	GR/Y	A20-X2-3	TB1-PE
GND	GR/Y	A20-X3-1	TB1-PE
98	BK	A20-X3-2	K3-4
99	BK	A20-X3-3	K3-1
96	BL	A20-X1-3	A1-2X25-5
97	BL	A20-X1-4	A1-2X25-6
100	BL	A20-X4-1	TB1-100
101	BL	A20-X4-2	TB1-101
102	BL	A20-X4-3	TB1-102
103	BL	A20-X4-4	TB1-103

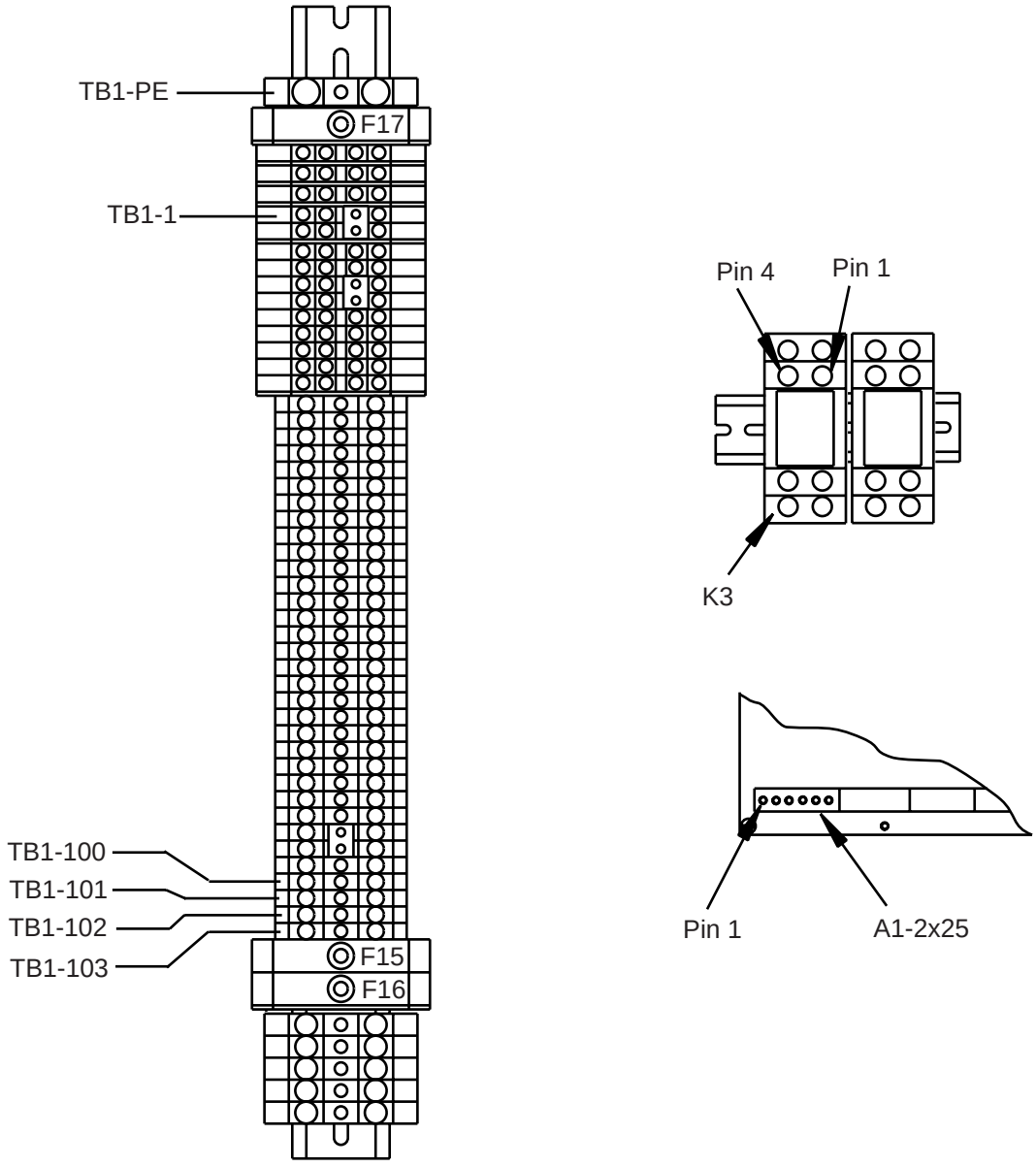
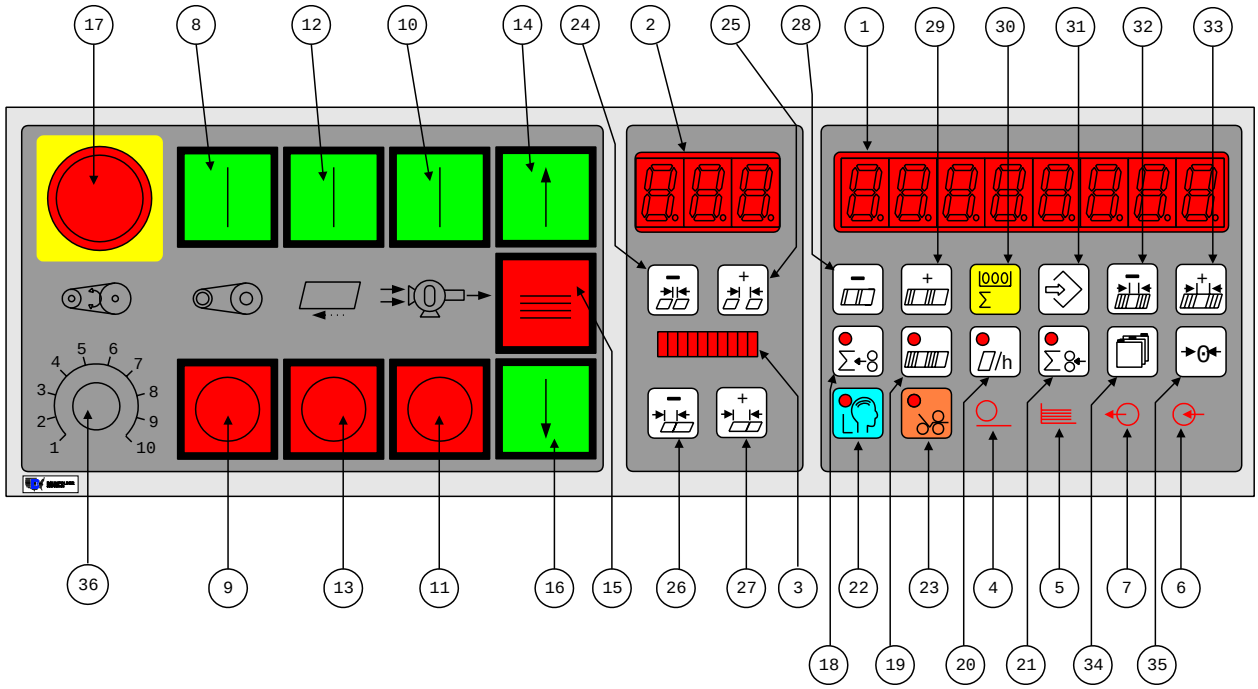


Figure 6



2.0 KICKER FUNCTION SETUP

2.1 Select Count Source

The Output Count and Input Count keys select between count at delivery and feeder, respectively. One key LED will always be lit in Counter Setup to show the current count source, see below. Chasing LEDs will activate in the small display signifying the start setup mode. The next sheet fed through will be timed from leading edge to trailing edge and the delay time will be set to one half the sheet time. Please note this must be redone if the delivery speed is changed. Select the Output Count button #18.

	The batching count source will be the feeder photoeye.
	The batching count source will be whatever is connected as the delivery photoeye.

2.2 Counter Setup Mode

Pushing this key puts the counter in counter setup mode.

Counter setup mode is used to prepare the controller to run a job. The large display (1) shows the batch preset on the left-hand side and the batching output time on the right hand side. The decimal points in the large display (1) will move from side to side to indicate that a parameter may be changed. The small display (2) shows the batching type. The suction length display (3) is active.

Change Batching Type

The minus and plus buttons move through a list of four output devices. The chosen type is then activated when the batch down-count goes to zero. Select the MKE Table column to kick the last sheet for the batching type setting.

The output types are represented by animated symbols. The sequence of frames for the animations is shown below.

	Feed Interruption	Speed Up Table	MKE Table	Future Feature
Frame 1				
Frame 2				
Frame 3				
Frame 4				
Frame 5				
Frame 6				
Frame 7				
Frame 8				

Output Type Animations

Batch Preset Adjustment

These buttons cause the batch preset value to increment or decrement. The preset will be reloaded after the user leaves the setup mode only if the value has been changed.

Batching Time Adjustment

The batching time adjustments allow the user to select the time duration associated with the currently selected output type. Two output types and times are available.

1. Feed interrupt has a range of 0.0 to 9.9 seconds.
2. Speed-up Table has a range of 0.00 to 5.00 seconds.

Set the range at approximately 0.5.

2.3 Make Ready Mode

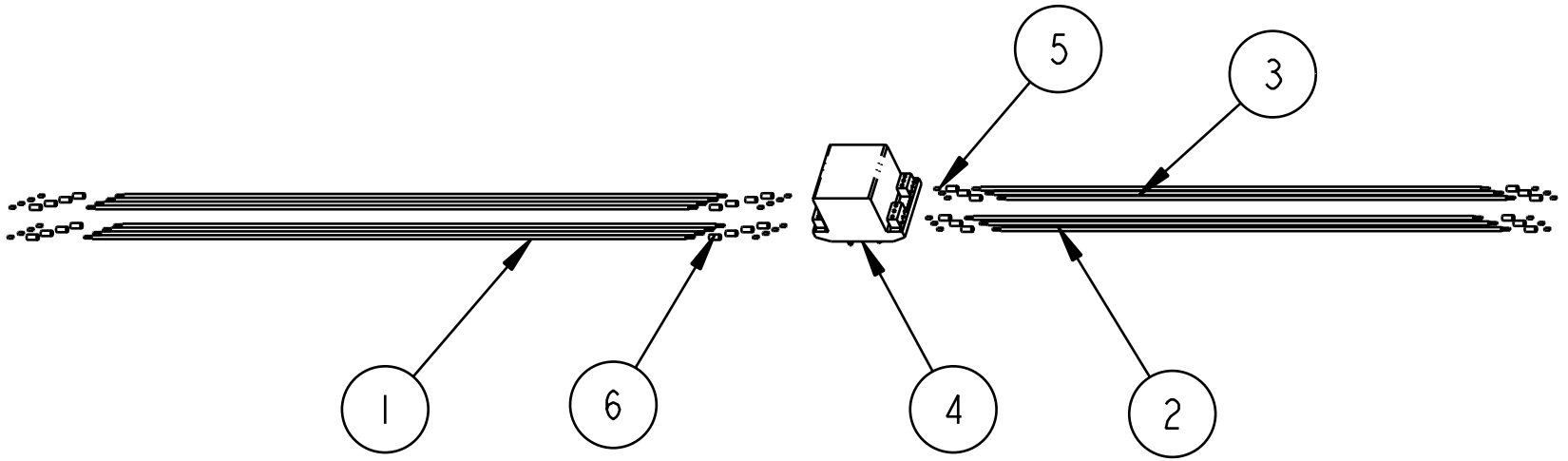
This key places the controller in the make ready mode. The key LED goes on. In this mode the folder will only feed single sheets and a batching output is issued for every two sheets fed. This allows the operator to easily set up the batching time.

Press the make ready button.

Press the sheet feed button, one sheet will be fed. The system will measure the sheet and automatically set some tiking parameters.

After each second sheet the Kicker will activate. Adjust the Kicker timing by changing thebatching time in the counter setup mode. This will achieve the desired offset (index) for the batch point.

Press the Make Ready button (#23). It's LED should go out informing you that the system is ready for production.



TP268-090-BG-01			
ITEM #	PART DESCRIPTION	PART #	QTY.
1	WIRE-18 AWG BL	22487	8 ·
2	WIRE-18 AWG BL	22526	4 ·
3	WIRE-18 AWG GR/Y	31001	2 ·
4	MODULE, KICKER	248-067-01-00	1 ·
5	FERRULE-UNINSULATED #18GA.WIRE	260-713-03-00	28 ·
6	MARKER-WIRE	261-363-01-00	28 ·

BAUMFOLDER CORPORATION

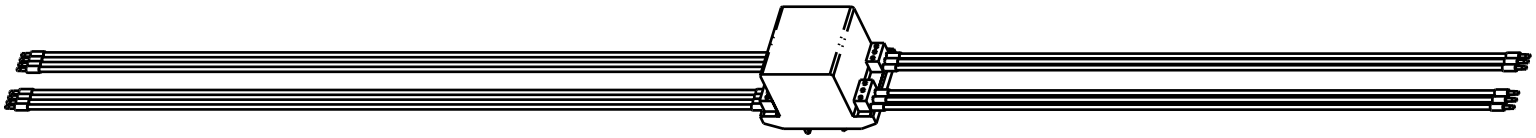
DESCRIPTION: 2020 KICKER MODULE ASSEMBLY

UNIT NAME: 2020 KICKER KIT

ASSEMBLY NUMBER: TP268-090-BG-01

REV:

SHEET 1 OF 2



WIRING INFORMATION				
PIN #	WIRE AWG	COLOR	LEN. (IN)	CKT. #
X1-1	18	BL	22	6
X1-2	18	BL	22	5
X1-3	18	BL	22	96
X1-4	18	BL	22	97
X2-1	18	BK	21	1
X2-2	18	BK	21	15
X2-3	18	GR/Y	24	GND
X3-1	18	GR/Y	24	GND
X3-2	18	BK	24	98
X3-3	18	BK	24	99
X4-1	18	BL	29	100
X4-2	18	BL	29	101
X4-3	18	BL	29	102
X4-4	18	BL	29	103

1. TRIM WIRES TO LENGTH SPECIFIED IN CHART AND STRIP BOTH ENDS TO RECEIVE FERRULES.
2. USING APPROPRIATE CRIMPER ATTACH FERRULES TO BOTH ENDS OF WIRES.
3. PER WIRING INFORMATION, LABEL BOTH ENDS OF WIRES AND ATTACH WIRES TO APPROPRIATE CONNECTOR OF KICKER MODULE.

BAUMFOLDER CORPORATION

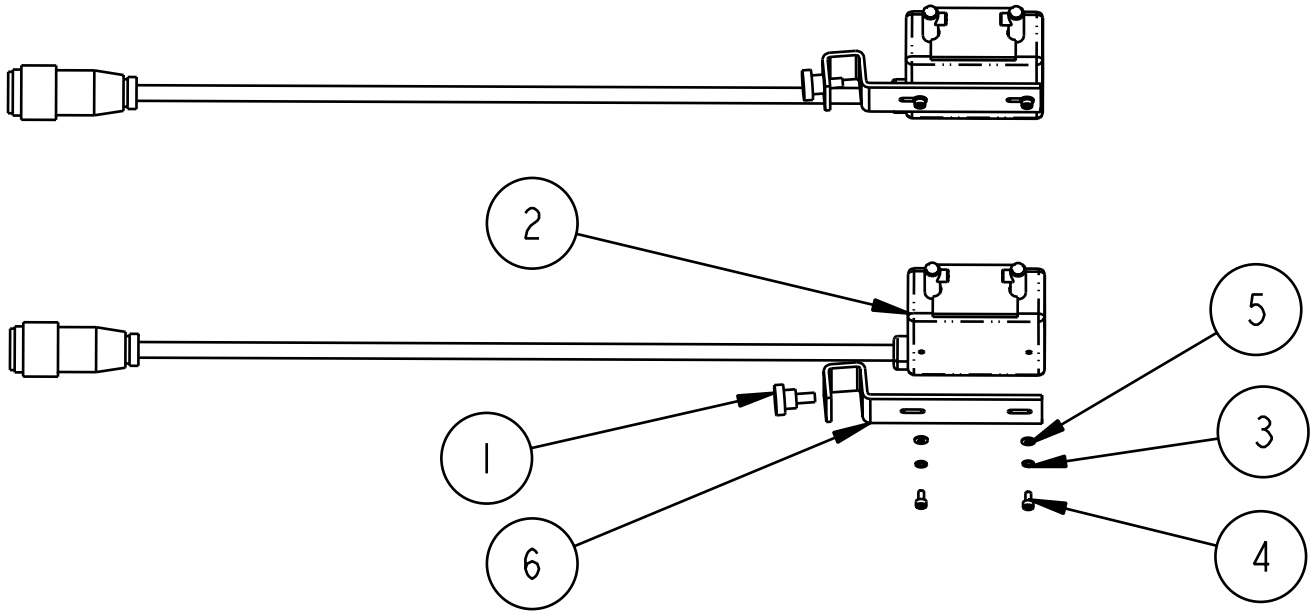
DESCRIPTION: 2020 KICKER MODULE ASSEMBLY

UNIT NAME: 2020 KICKER KIT

ASSEMBLY NUMBER: TP268-090-BG-01

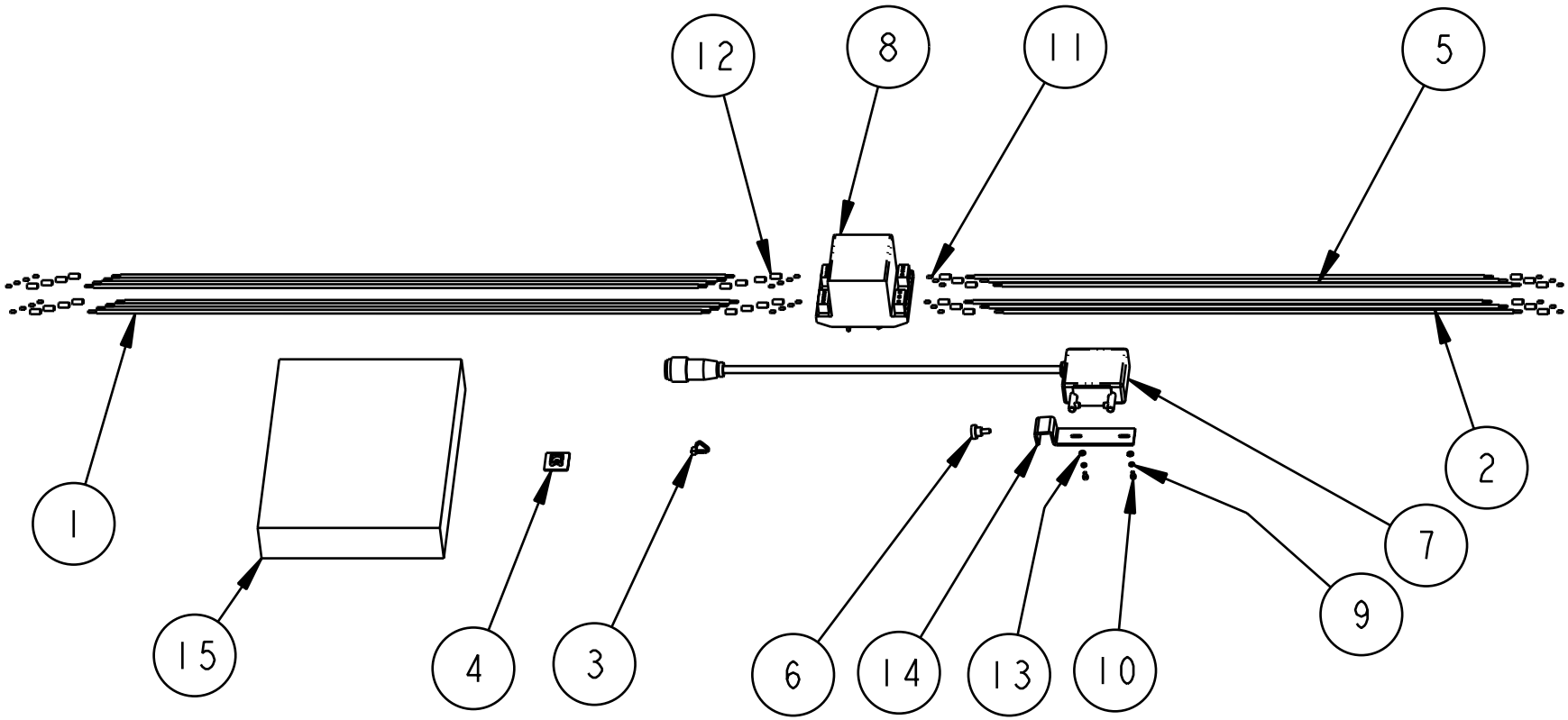
REV:

SHEET 2 OF 2



TP220-889-02-00			
ITEM #	PART DESCRIPTION	PART #	QTY.
1	SCREW-KNURLED THUMB M5x10mm	200-613-01-00	1
2	DEVICE-KICKER (ASSEMBLY)	220-889-02-00	1
3	WASHER-LOCK M03 INT TOOTH +	260-304-05-00	2
4	SCREW-SOC HD CAP M3X6 BLK	260-646-03-00	2
5	WASHER-PLAIN M3 3.2X7X0.5 BLK	262-709-01-00	2
6	BRACKET, KICKER	268-025-02-00	1

BAUMFOLDER CORPORATION	DESCRIPTION: 2020 KICKER DEVICE ASSEMBLY	ASSEMBLY NUMBER: TP220-889-02-00	REV:
	UNIT NAME: 2020 KICKER KIT		SHEET 1 OF 1



BAUMFOLDER CORPORATION	DESCRIPTION: 2020 KICKER KIT ASSEMBLY	ASSEMBLY NUMBER: 268-090-BG-01	REV:
	UNIT NAME: 2020 KICKER KIT		SHEET 1 OF 2

268-090-BG-01			
ITEM #	PART DESCRIPTION	PART #	QTY.
1	WIRE-18 AWG BL	22487	8
2	WIRE-18 AWG BL	22526	4
3	TIE-CABLE,BLACK .14X5.5	23469	8
4	HOLDER, WIRE TIE	24322	2
5	WIRE-18 AWG GR/Y	31001	2
6	SCREW-KNURLED THUMB M5x10mm	200-613-01-00	1
7	DEVICE-KICKER (ASSEMBLY)	220-889-02-00	1
8	MODULE, KICKER	248-067-01-00	1
9	WASHER-LOCK M03 INT TOOTH +	260-304-05-00	2
10	SCREW-SOC HD CAP M3X6 BLK	260-646-03-00	2
11	FERRULE-UNINSULATED #18GA.WIRE	260-713-03-00	28
12	MARKER-WIRE	261-363-01-00	28
13	WASHER-PLAIN M3 3.2X7X0.5 BLK	262-709-01-00	2
14	BRACKET, KICKER	268-025-02-00	1
15	INSTRUCTIONS-2020 KICKER	TP10324	1

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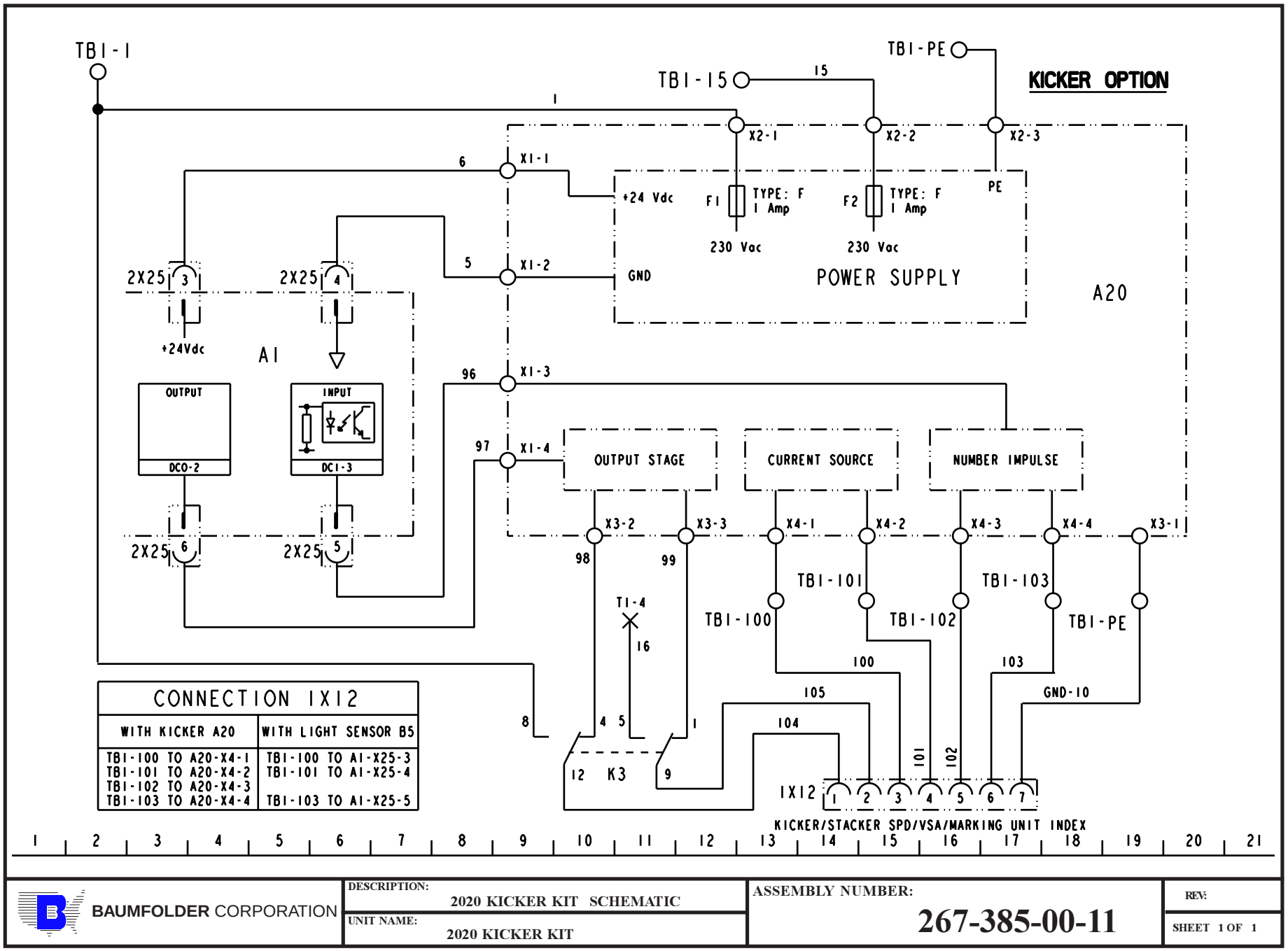
DESCRIPTION: 2020 KICKER KIT ASSEMBLY

UNIT NAME: 2020 KICKER KIT

ASSEMBLY NUMBER: 268-090-BG-01

REV:

SHEET 2 OF 2



CONNECTION 1X12	
WITH KICKER A20	WITH LIGHT SENSOR B5
TBI-100 TO A20-X4-1	TBI-100 TO A1-X25-3
TBI-101 TO A20-X4-2	TBI-101 TO A1-X25-4
TBI-102 TO A20-X4-3	
TBI-103 TO A20-X4-4	TBI-103 TO A1-X25-5

BAUMFOLDER CORPORATION	DESCRIPTION: 2020 KICKER KIT SCHEMATIC	ASSEMBLY NUMBER: 267-385-00-11	REV:
	UNIT NAME: 2020 KICKER KIT		SHEET 1 OF 1

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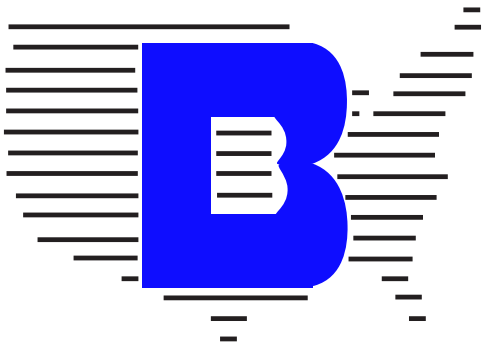
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