



Hollister-Whitney Elevator Corporation

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Brake Monitor, Brake Monitor Kits and Instructions

IMPORTANT: These kits are specifically designed to replace old style Brake Monitors (Cams and Phosphor Bronze Contacts) with the Micro-Switch Version. If your Brake was manufactured prior to 2004 (Brake with no Brake Monitor), this kit is not necessarily compatible. Contact Hollister-Whitney for further options.

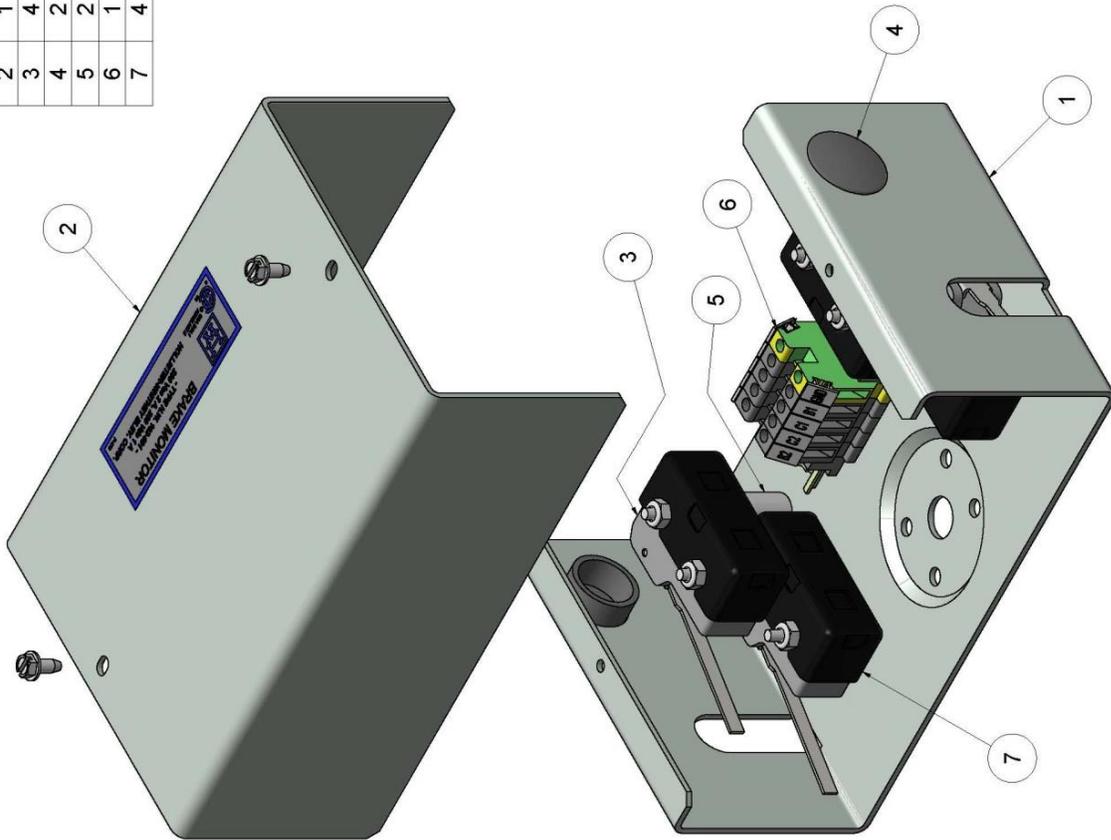
PART NUMBER	DESCRIPTION	USE WITH THE FOLLOWING	PAGE NUMBER
102-091	Brake Monitor - Series Circuit, Standard Contacts - HW Standard	ALL BRAKES	2
102-092	Brake Monitor - Parallel Circuit w/Gold Contacts - Special Order	ALL BRAKES	4
90-094	Drum Brake Kit - with 102-091 Monitor	#90 Brake (#43 Machine)	7
90-095	Drum Brake Kit - with 102-092 Monitor	#90 Brake (#43 Machine)	8
100-094	Drum Brake Kit - with 102-091 Monitor	#100 or 110 Brake (#53 or 63 Machine)	9
100-095	Drum Brake Kit - with 102-092 Monitor	#100 or 110 Brake (#53 or 63 Machine)	10
120-094	Drum Brake Kit - with 102-091 Monitor	#120 Brake (#74 Machine)	11
120-095	Drum Brake Kit - with 102-092 Monitor	#120 Brake (#74 Machine)	12
92-094	Disc Brake Kit - with 102-091 Monitor	#92 Brake (#34 Machine)	13
92-095	Disc Brake Kit - with 102-092 Monitor	#92 Brake (#34 Machine)	14
102-094	Disc Brake Kit - with 102-091 Monitor	#102 or 112 Brake (#44, 54 or 64 Machine)	15
102-095	Disc Brake Kit - with 102-092 Monitor	#102 or 112 Brake (#44, 54 or 64 Machine)	16



102-091 Brake Monitor Shown, 102-092 Similar

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	BRK3-0002N	BASE - BRAKE MONITOR
2	1	BRK3-0003N	COVER, BRAKE MONITOR
3	4	MICS-0019N	MICROSWITCH, LEVER MODIFIED (GAL) REF #BZ-2RW824-A2
4	2	201-032	DUST CAP
5	2	HWPC-0066N	RISER
6	1	BRK3-0004N	TERMINAL ASSY, BRAKE MONITOR
7	4	MICS-0016N	COVER, MICROSWITCH



Weight - 3.18 lbs/ass

HOLLISTER-WHITNEY ELEVATOR CO.	
TITLE	DATE
BRAKE MONITOR ASSEMBLY	2/28/2013
BY	DATE
SCALE	SIZE
DATE PURCHASED FROM	DATE
GAL MANUFACTURING	SIZE
GAL #BRK3-0001N	SIZE
DIMENSIONAL TOL.	SIZE
PLACE #01 TO PLACE #006	SIZE
REF - OPEN (NOMINAL) 0.015	SIZE
UPDATE SWITCH PART	SIZE
NUMBERS: PUR #614	SIZE
NEW PRODUCTION PRINT.	SIZE
PUR #574	SIZE
LTL	SIZE
9/24/13	SIZE
B	SIZE
A	SIZE
501/143	SIZE
102-091	SIZE

#102-091 BRAKE MONITOR SCHEMATIC AND WORKING PROCEDURE

WARNING: IN ORDER TO DETECT A BRAKE FAILURE, THIS BRAKE MONITOR SWITCH MUST BE PROPERLY ADJUSTED & FULLY OPERATIONAL PRIOR TO BEING PLACED INTO SERVICE.

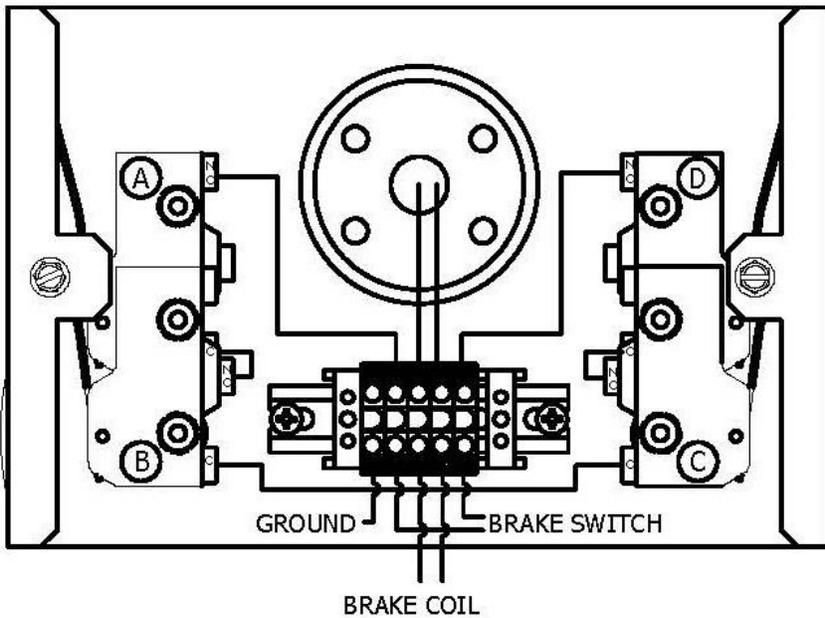
IMPORTANT: READ ENTIRE INSTRUCTIONS BEFORE ATTEMPTING ADJUSTMENT!!!

▲WARNING

SHOCK WARNING: ACTIVE ELECTRIC CIRCUITS!!

102-091 BRAKE MONITOR


HOLLISTER-WHITNEY ELEVATOR CORP.
 BRAKE MONITOR STANDARD WIRING SCHEMATIC
LABEL-0132N



BRAKE MONITOR ASSEMBLY 102-091

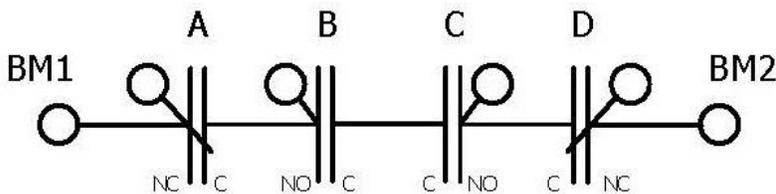
NORMAL BRAKE DE-ENERGIZED
 ALL CONTACTS ARE MADE
 CIRCUIT CLOSED BETWEEN BM1 & BM2

NORMAL BRAKE ENERGIZED
 CONTACTS A & D OPEN
 OPEN CIRCUIT BETWEEN BM1 & BM2

BRAKE FAILS TO APPLY PROPERLY (FAILS TO DROP)
 CONTACTS A OR D OR BOTH FAIL TO CLOSE

EXCESSIVE BRAKE PAD WEAR OR EXCESSIVE THRUST BEARING END PLAY
 CONTACTS B OR C OR BOTH OPEN

BRAKE FAILS TO LIFT
 CONTACTS A OR D OR BOTH FAIL TO OPEN



#102-092 BRAKE MONITOR SCHEMATIC AND WORKING PROCEDURE

WARNING: IN ORDER TO DETECT A BRAKE FAILURE, THIS BRAKE MONITOR SWITCH MUST BE PROPERLY ADJUSTED & FULLY OPERATIONAL PRIOR TO BEING PLACED INTO SERVICE.

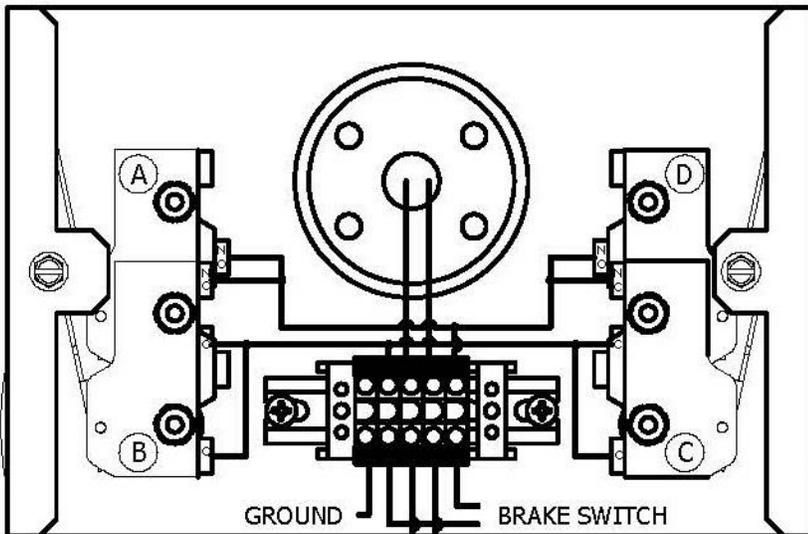
IMPORTANT: READ ENTIRE INSTRUCTIONS BEFORE ATTEMPTING ADJUSTMENT!!!

▲WARNING

SHOCK WARNING: ACTIVE ELECTRIC CIRCUITS!!

102-092 BRAKE MONITOR

HOLLISTER-WHITNEY ELEVATOR CORP.
BRAKE MONITOR GOLD CONTACT WIRING SCHEMATIC
LABEL-0133N



BRAKE MONITOR PARALLEL CIRCUIT ASSEMBLY 102-092

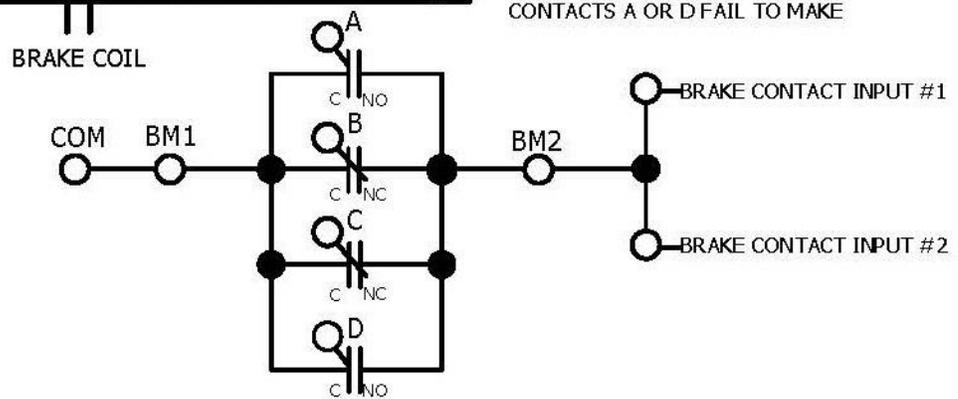
NORMAL BRAKE DE-ENERGIZED
 ALL CONTACTS ARE OPEN
 CIRCUIT OPEN BETWEEN BM1 & BM2

NORMAL BRAKE ENERGIZED
 CONTACTS A & D MADE
 CLOSED CIRCUIT BETWEEN BM1 & BM2

BRAKE FAILS TO DROP
 CONTACTS A OR D FAIL TO OPEN

EXCESSIVE BRAKE PAD WEAR OR EXCESSIVE
 THRUST BEARING END PLAY
 CONTACTS B OR C OR BOTH CLOSE

BRAKE FAILS TO LIFT
 CONTACTS A OR D FAIL TO MAKE

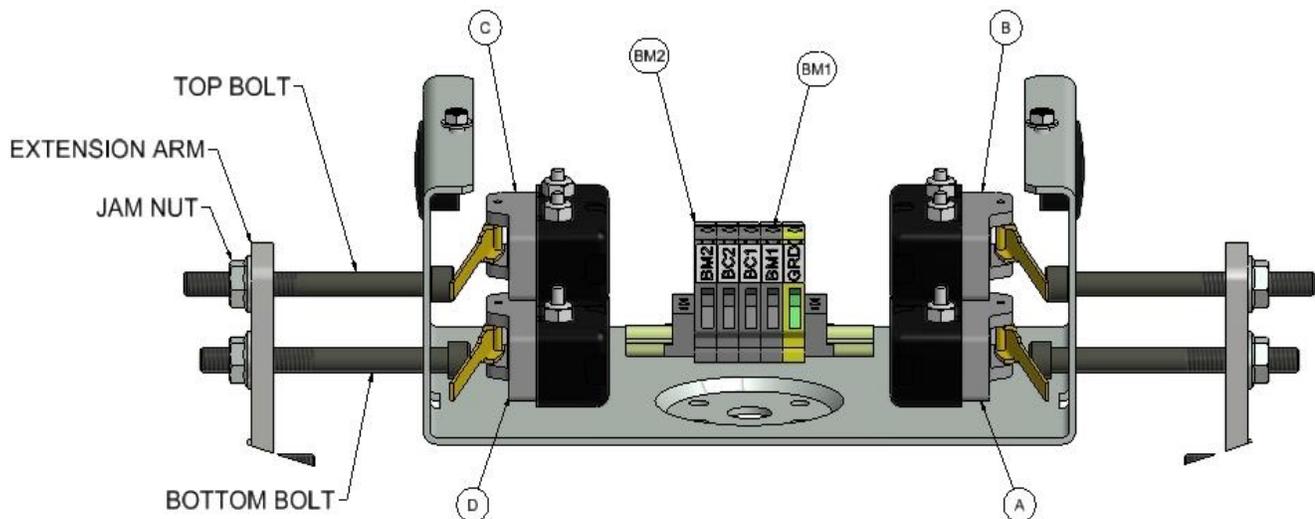


BRAKE MONITOR ADJUSTMENT: (For 102-091 & 102-092 Monitors)

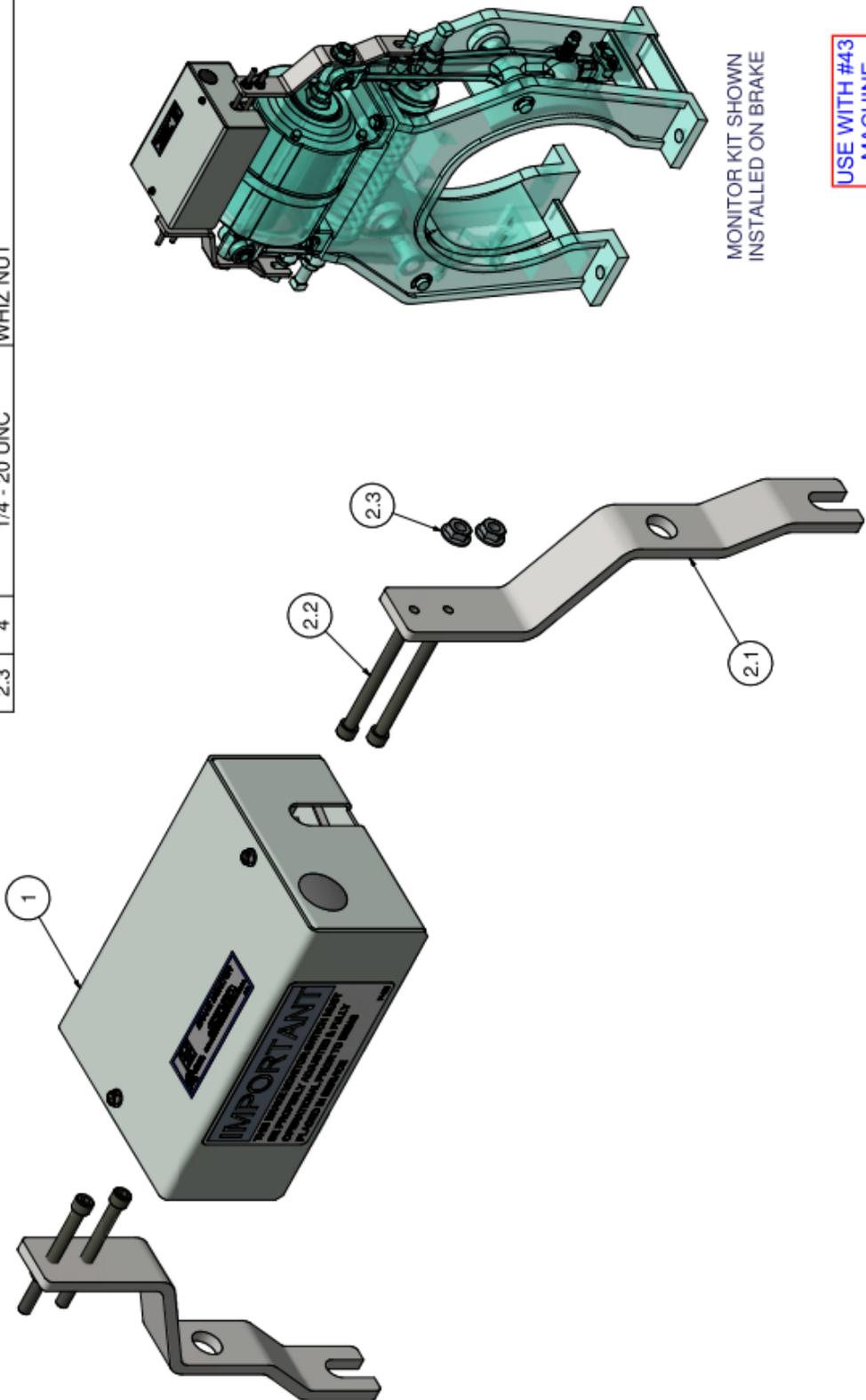
1. Adjust top bolt “in” until you hear micro switch “click”.
2. Rotate top bolt “in” 1 full revolution then tighten jamb nut against extension arm.
3. Adjust bottom bolt “in” until you hear micro switch “click”.
4. Rotate bottom bolt “out” until you hear micro switch “click”
5. Rotate bottom bolt “out” 1 full revolution then tighten jamb nut against extension arm.
6. Repeat steps 1 thru 5 on opposite side of monitor.
7. Cycle Brake – check for micro switch activation and circuits are performing as designed.
8. Run machine and check adjustment when machine is at operating temperature.
9. Fine tuning may be needed per bolt until proper adjustment is obtained.

BOLT ADJUSTMENT DIRECTIONS

→→→→→→→→ IN ←←←←←←←←
←←←←←←←← OUT →→→→→→→→
MONITOR SHOWN WITH COVER REMOVED



Parts List			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	90HDW-093	90 BRAKE MONITOR - HARDWARE KIT
2.1	2	90-093	EXTENSION - BRAKE ARM 90 - DRUM BRAKE
2.2	4	1/4-20 UNC X 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4 - 20 UNC	WHIZ NUT



MONITOR KIT SHOWN
INSTALLED ON BRAKE

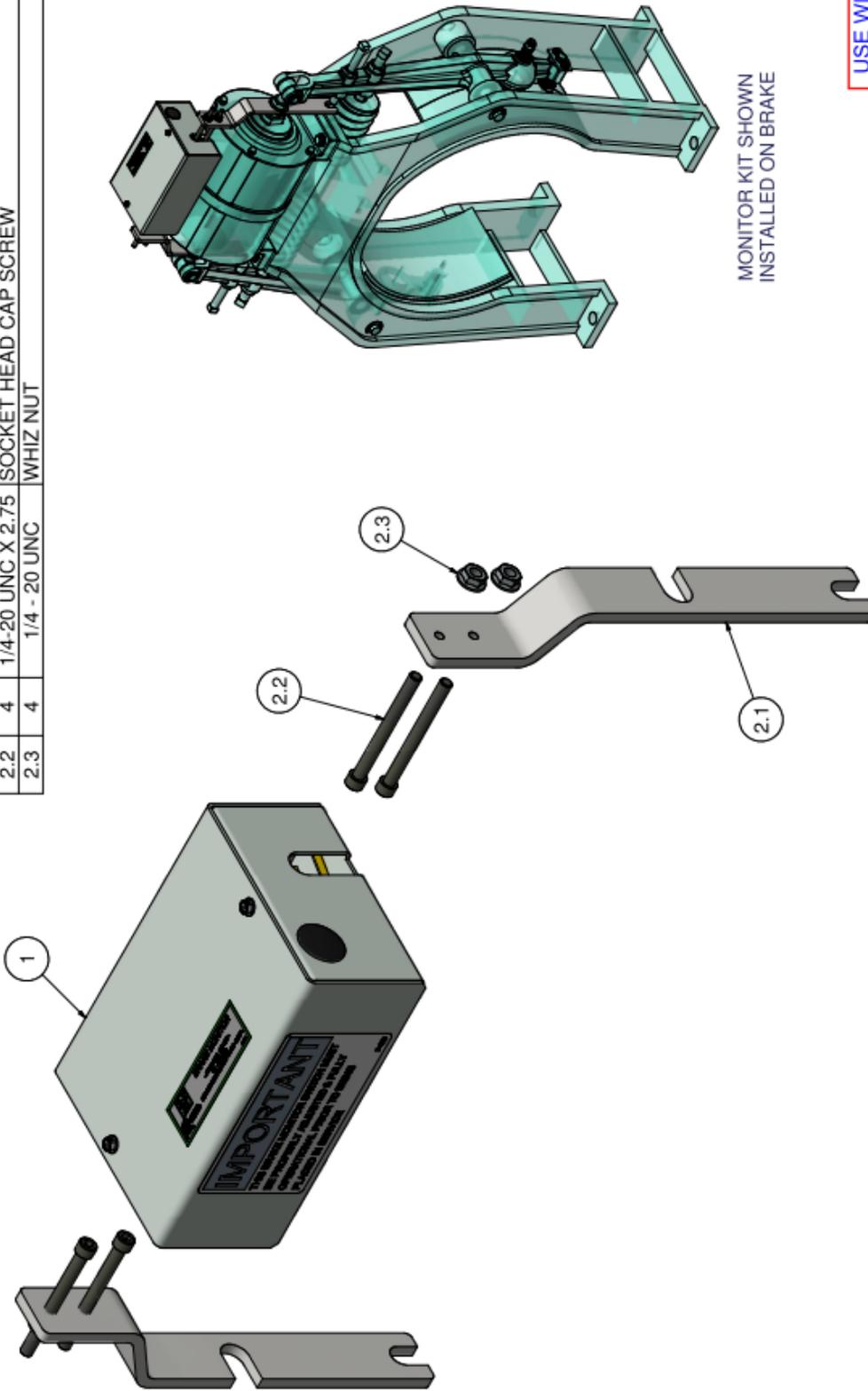
**USE WITH #43
MACHINE**

HOLLISTER-WHITNEY		ELEVATOR CO.	
TITLE		BRAKE MONITOR KIT	
		90 DRUM BRAKE	
DESIGN	SCALE	BY	DATE
REV	DESCRIPTION	DATE	BY
B	SCREWS & ETC TO HARDWARE KIT PUR #846 LTL	3/22/17	
A	NEW PRODUCTION PRINT		
SHEET		SIZE	
A		5/8x11	
PUR #674		90-094	

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	120HDW-093	120 BRAKE MONITOR - HARDWARE KIT
2.1	2	120-093	EXTENSION - BRAKE ARM 120 - DRUM BRAKE
2.2	4	1/4-20 UNC X 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4 - 20 UNC	WHIZ NUT

(B)



MONITOR KIT SHOWN
INSTALLED ON BRAKE

USE WITH
#74
MACHINE

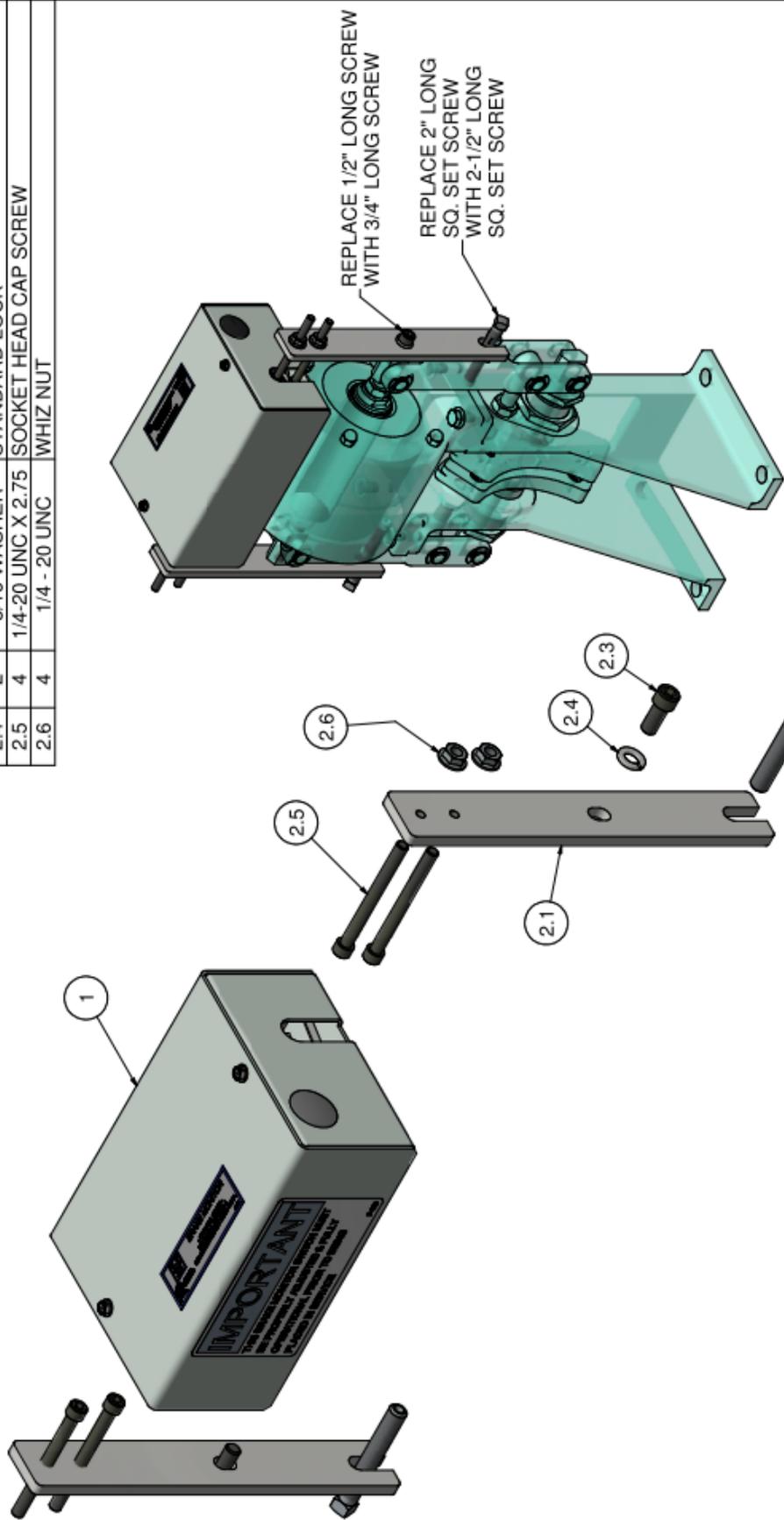
TITLE		HOLLISTER-WHITNEY ELEVATOR CO.	
DRAWN BY		BRAKE MONITOR KIT 120 DRUM BRAKE	
DATE	SIZE	SHEET	OF
3/1/2013	C	1	1
DIMENSIONAL TOL.		SEE PARTS LIST	
MATERIAL		SEE PARTS LIST	
L.T.L.		BLG N/A	
SCREWS & ETC TO		BLG 5/23/17	
HARDWARE KIT, PUR #846		BLG	
PRODUCTION RELEASE		BLG	
PUR #574		BLG	
A		A	

120-095

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	92HDW-093	92 BRAKE MONITOR - HARDWARE KIT
2.1	2	92-093	EXTENSION - BRAKE ARM 92 - DISC BRAKE
2.2	2	3/8 - 16 UNC X 2.5	SQUARE HEAD SET SCREW
2.3	2	5/16-18 UNC X 0.75	SOCKET HEAD CAP SCREW
2.4	2	5/16 WASHER	STANDARD LOCK
2.5	4	1/4-20 UNC X 2.75	SOCKET HEAD CAP SCREW
2.6	4	1/4 - 20 UNC	WHIZ NUT

(B)



MONITOR KIT SHOWN MOUNTED ON BRAKE

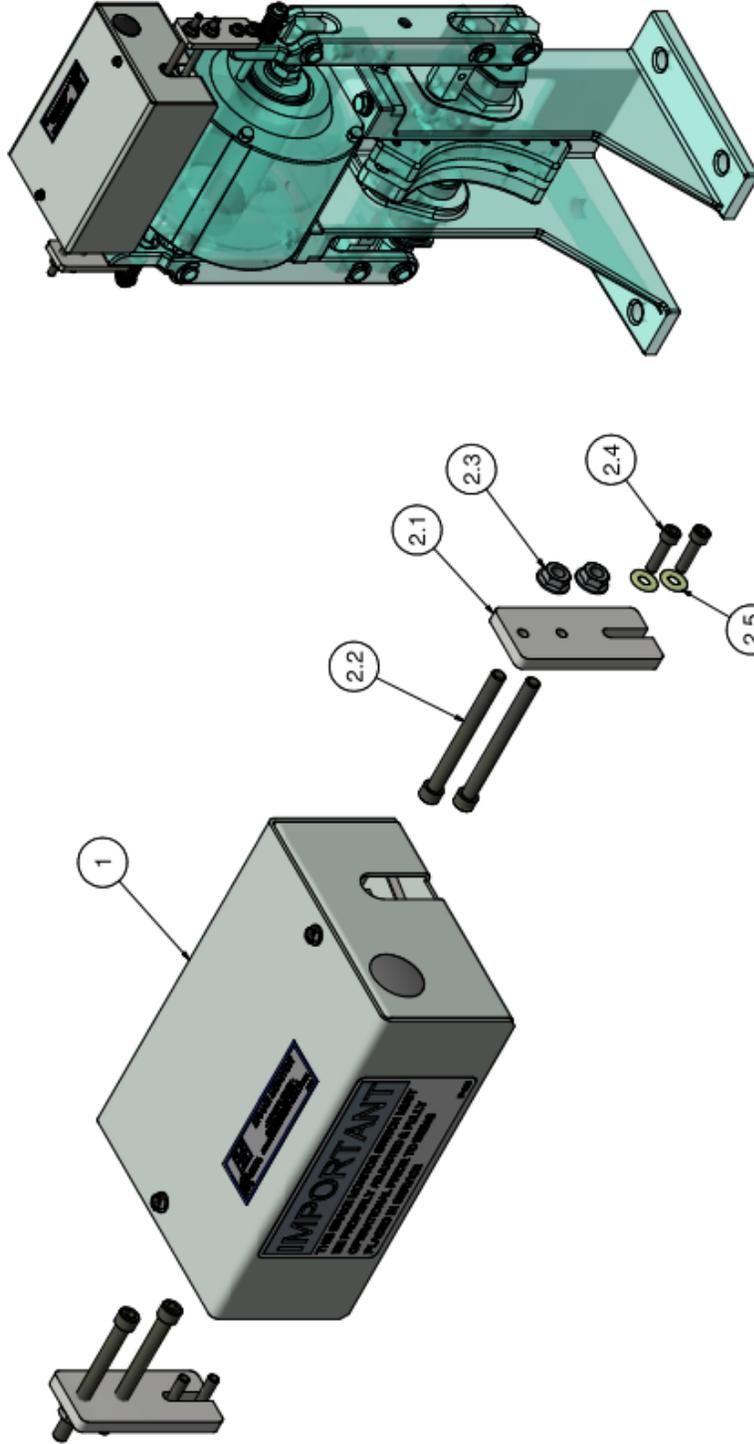
USE WITH #34 MACHINE

TITLE		HOLLISTER-WHITNEY ELEVATOR CO.	
DATE	BY	SCALE	PROJECT
3/7/17			
LTL	BLG	NA	SEE PARTS LIST
SCREWS & ETC TO HARDWARE KIT PUR #846	BLG		
NEW PRODUCTION PRINT	BLG		
PUR #574	A	C	DATE 3/1/2013
SIZE	150113		92-094

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	102HDW-093	102 BRAKE MONITOR - HARDWARE KIT
2.1	2	102-093	EXTENSION - BRAKE ARM 102 & 112 DISC BRAKES
2.2	4	1/4-20 UNC X 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4 - 20 UNC	WHIZ NUT
2.4	4	#10-24 UNC X 0.75	SOCKET HEAD CAP SCREW
2.5	4	#10 WASHER	STANDARD WASHER

(B)



MONITOR KIT SHOWN INSTALLED
ON #102 BRAKE (#44 OR #54 MACHINE).

#112 INSTALLATION SIMILAR (#64 MACHINE)

**USE WITH
#44, #54, OR
#64 MACHINE**

HOLLISTER-WHITNEY		ELEVATOR CO.	
TITLE		BRAKE MONITOR KIT	
DRAWN		102 & 112 DISC BRAKE	
SCALE		DIMENSIONAL TOL.	
BY		SEE PARTS LIST	
DATE		3/1/2013	
SHEET		C	
SIZE		5/8/13	
PUR #574		PUR #574	
BLG		BLG	
NEW PRODUCTION PRINT		NEW PRODUCTION PRINT	
BLG		BLG	
PUR #846		PUR #846	
LTL		LTL	
SCREWS & ETC TO		SCREWS & ETC TO	
HARDWARE KIT, PUR #846		HARDWARE KIT, PUR #846	
BLG		BLG	
A		A	
102-094		102-094	

