



Hollister-Whitney Elevator Corporation

#1 Hollister-Whitney Parkway
Quincy, IL 62305
Phone: 217-222-0466

Fax: 217-222-0493
e-mail: info@hollisterwhitney.com
www.hollisterwhitney.com

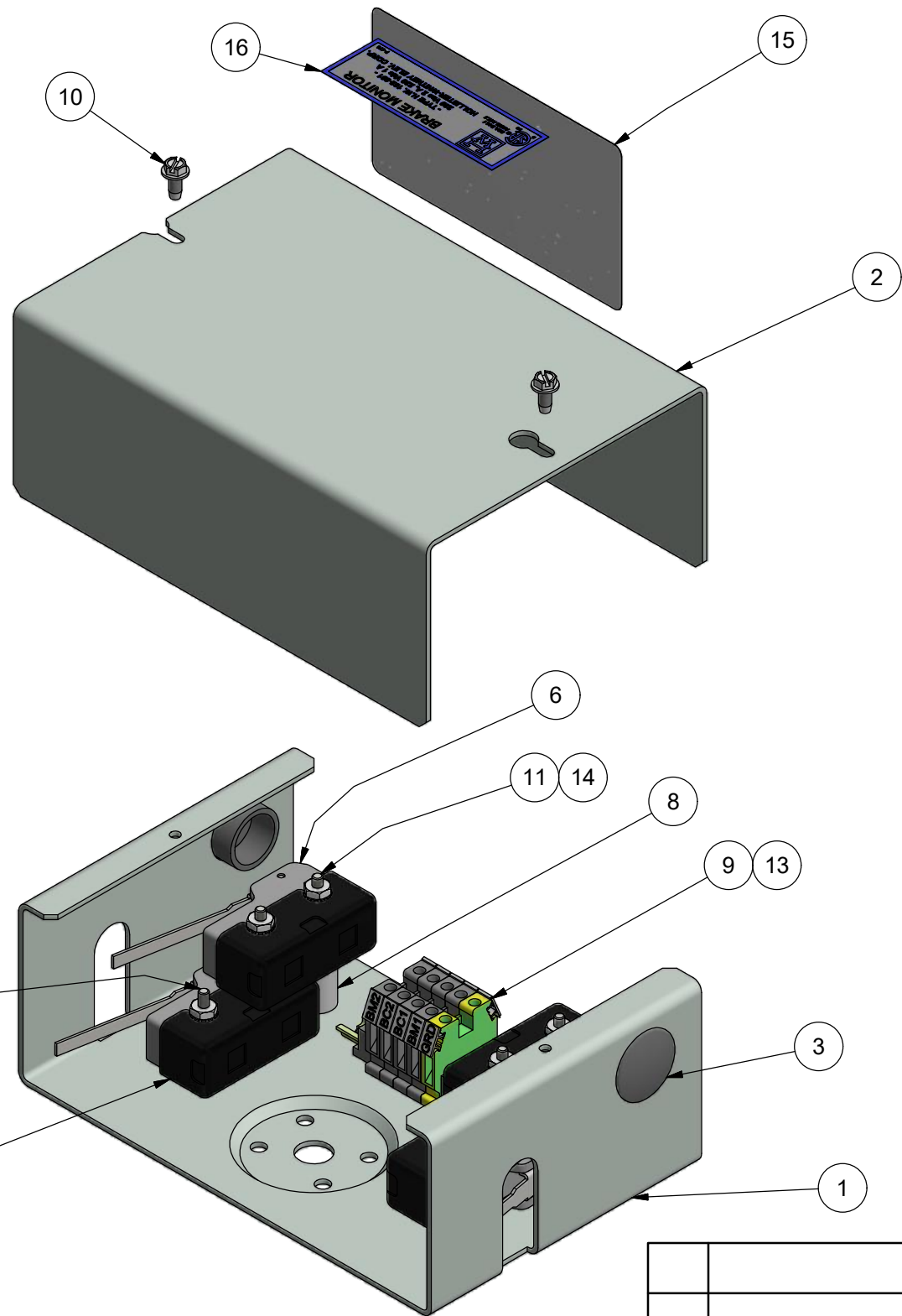
Brake Monitor, Brake Monitor Kits and Instructions

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.

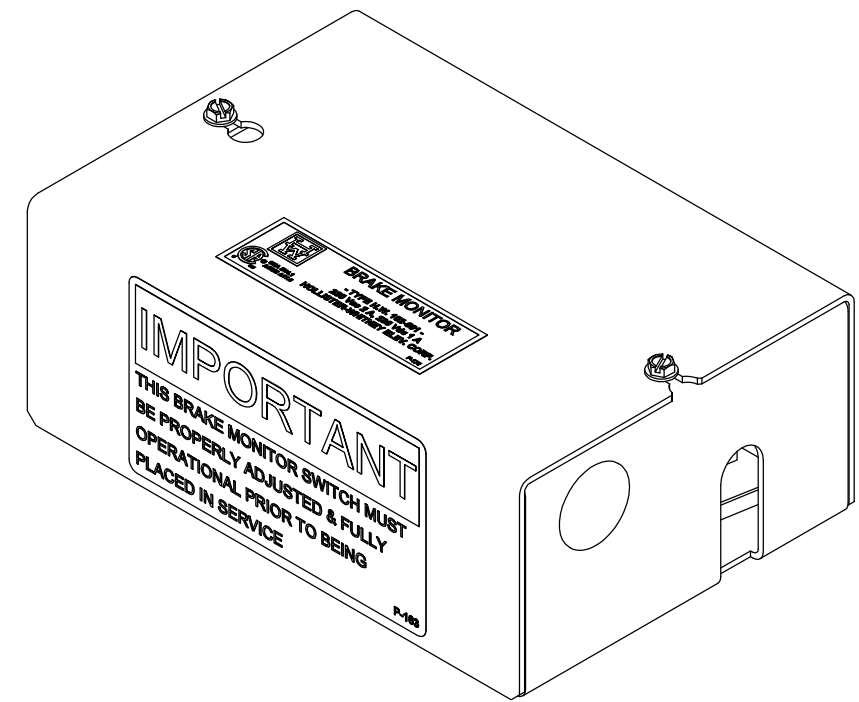
PART NUMBER	DESCRIPTION	USE WITH THE FOLLOWING	PAGE #
102-091	Brake Monitor - HW standard	All Brakes	2
102-092	Brake Monitor - Parallel circuit w/ gold contacts	All Brakes	4
	Brake Monitor Adjustment	All Models	6
90-094	Drum Brake Kit - with 102-091 monitor	#90 Drum Brake - #43 Machine	7
90-095	Drum Brake Kit - with 102-092 monitor	#90 Drum Brake - #43 Machine	8
100-094	Drum Brake Kit - with 102-091 monitor	#100 Drum Brake - #53 & #63 Machines	9
100-095	Drum Brake Kit - with 102-092 monitor	#100 Drum Brake - #53 & #63 Machines	10
120-094	Drum Brake Kit - with 102-091 monitor	#120 Drum Brake - #74 Machines	11
120-095	Drum Brake Kit - with 102-092 monitor	#120 Drum Brake - #74 Machines	12
92-094	Disc Brake Kit - with 102-091 monitor	#92 Disc Brake - #34 Machine	13
92-095	Disc Brake Kit - with 102-092 monitor	#92 Disc Brake - #34 Machine	14
102-094	Disc Brake Kit - with 102-091 monitor	#102 & #112 Disc Brake - #44, #54 & #64 Machines	15
102-095	Disc Brake Kit - with 102-092 monitor	#102 & #112 Disc Brake - #44, #54 & #64 Machines	16
90HDW-093	Hardware Kit - #102-091 & #102-092 Monitors	#90 Drum Brake - #43 Machine	17
100HDW-093	Hardware Kit - #102-091 & #102-092 Monitors	#100 Drum Brake - #53 & #63 Machines	18
120HDW-093	Hardware Kit - #102-091 & #102-092 Monitors	#120 Drum Brake - #74 Machines	19
92HDW-093	Hardware Kit - #102-091 & #102-092 Monitors	#92 Disc Brake - #34 Machine	20
102HDW-093	Hardware Kit - #102-091 & #102-092 Monitors	#102 & #112 Disc Brake - #44, #54 & #64 Machines	21



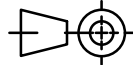
102-091 Brake Monitor Shown, 102-092 Similar



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-101	BASE - BRAKE MONITOR
2	1	102-102	COVER, BRAKE MONITOR
3	2	201-032	DUST CAP
4	4	102-091-4	WIRE, 4" x 18 Ga (NOT SHOWN)
5	1	102-091-5	WIRE, 7" x 18 Ga (NOT SHOWN)
6	4	MICS-0019N	MICROSWITCH, LEVER MODIFIED (GAL) REF #BZ-2RW824-A2
7	4	MICS-0016N	COVER, MICROSWITCH
8	2	HWPC-0066N	RISER
9	1	BRK3-0004N	TERMINAL ASSY, BRAKE MONITOR
10	2	#8-32 UNC x 3/8"	SLOTTED FLANGE HEAD SELF TAPPING SCREW
11	4	#6 - 32 UNC x 2"	ROUND HEAD MACHINE SCREW
12	2	#6 - 32 UNC x 1-1/4"	ROUND HEAD MACHINE SCREW
13	2	#6 - 32 UNC x 1/4"	ROUND HEAD MACHINE SCREW
14	6	#6-32 UNC	KEPS NUT
15	1	P-163	IMPORTANT - BRAKE MONITOR STICKER
16	1	P-178	LABEL - 102-091 BRAKE MONITOR
17	1	LABEL-0132N	BRAKE MONITOR STANDARD WIRING SCHEMATIC (NOT SHOWN)



WEIGHT: 3.2 lbmass

			C	UPDATE TERMINAL BLOCK #S, PUR #633	LTL 1/28/14	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	UPDATE SWITCH PART NUMBERS, PUR #614	LTL 9/24/13	TITLE			
D	UPDATE PARTS LIST, NEW T.B., PUR #1195	LTL 9/18/19	A	NEW PRODUCTION PRINT, PUR #574	BLG 5/01/13	BRAKE MONITOR ASSEMBLY			
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 2	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 4/18/2013	

#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!!

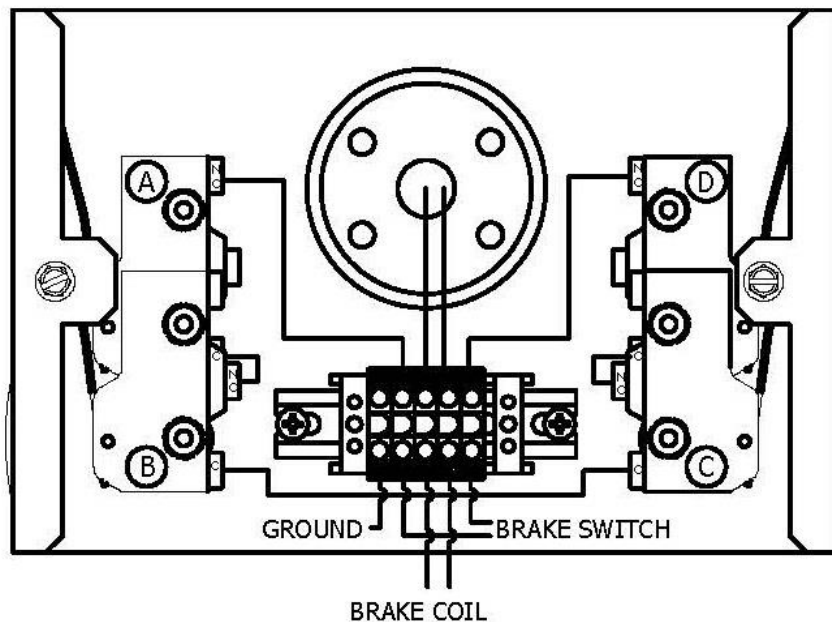
102-091 BRAKE MONITOR



HOLLISTER-WHITNEY ELEVATOR CORP.

BRAKE MONITOR STANDARD WIRING SCHEMATIC

LABEL-0132N



BRAKE MONITOR ASSEMBLY 102-091

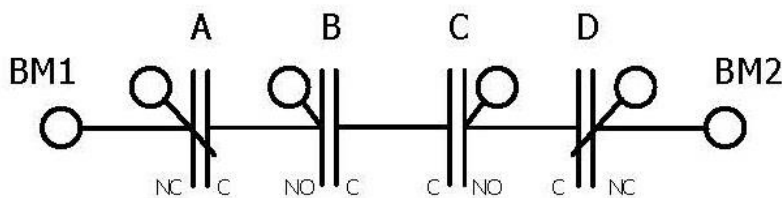
NORMAL BRAKE DE-ENERGIZED
ALL CONTACTS ARE MADE
CIRCUIT CLOSED BETWEEN BM1 & BM2

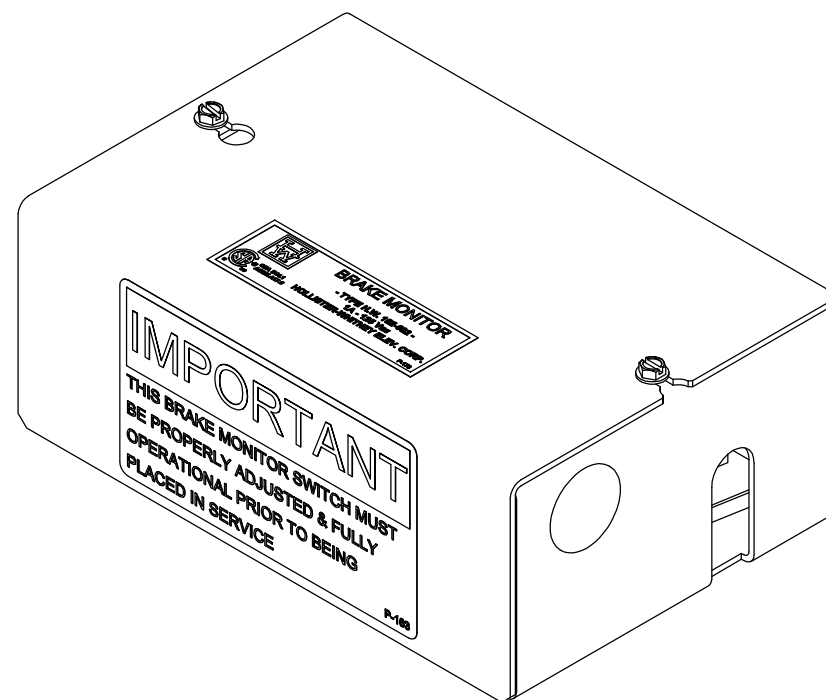
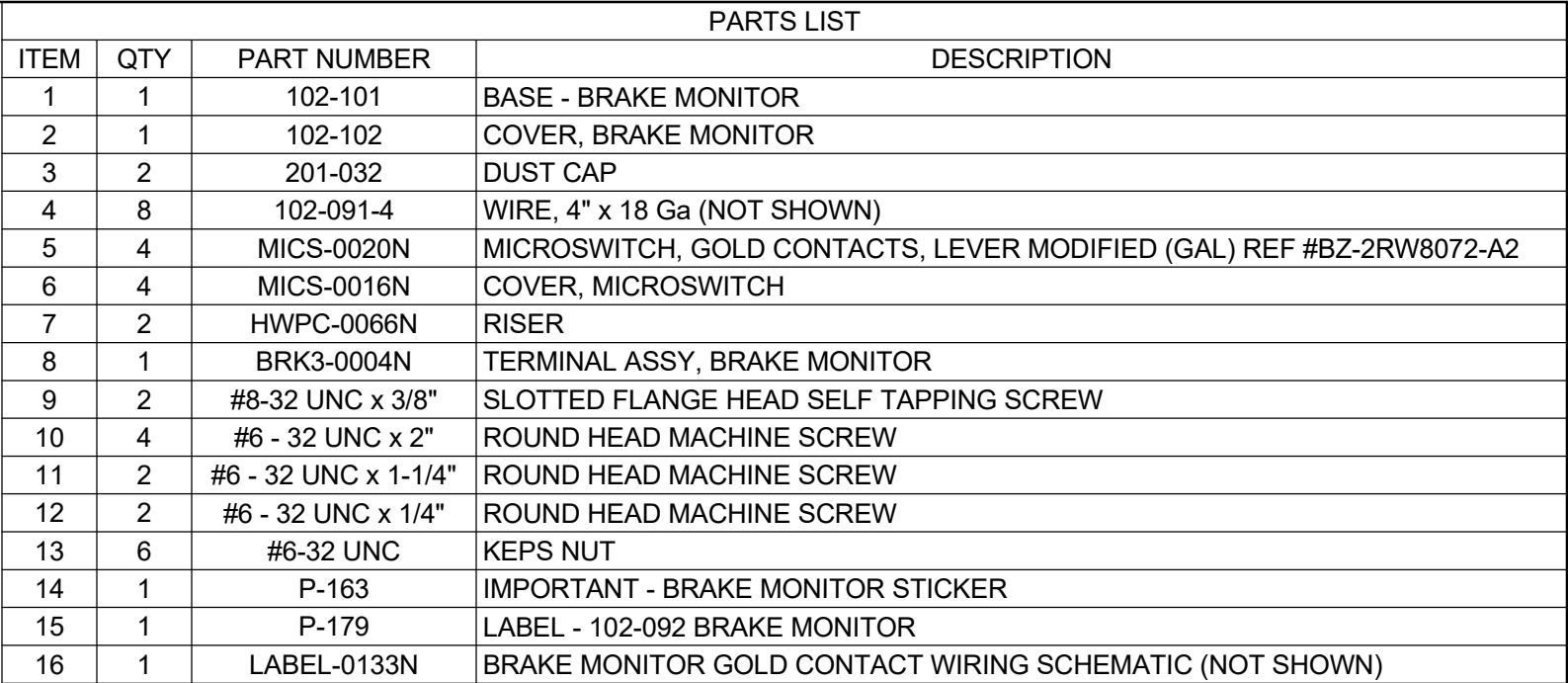
NORMAL BRAKE ENERGIZED
CONTACTS A & D OPEN
OPEN CIRCUIT BETWEEN BM1 & BM2

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

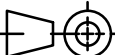
EXCESSIVE BRAKE PAD WEAR OR EXCESSIVE
THRUST BEARING END PLAY
CONTACTS B OR C OR BOTH OPEN

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





WEIGHT: 3.2 lbmass

			C	UPDATE TERMINAL BLOCK #S, PUR #633	LTL 1/28/14	HOLLISTER-WHITNEY ELEVATOR CO. LLC				
			B	UPDATE SWITCH PART NUMBERS, PUR #614	LTL 9/24/13	TITLE BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS				
D	UPDATE PARTS LIST, NEW T.B., PUR #1195	LTL 1/28/14	A	NEW PRODUCTION PRINT, PUR #574	BLG 5/01/13					
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 2	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED	
						SHEET SIZE B		DATE 4/22/2013	102-092 SHEET 1 OF 1	

#102-092 BRAKE MONITOR SCHEMATIC AND WORKING PROCEDURE

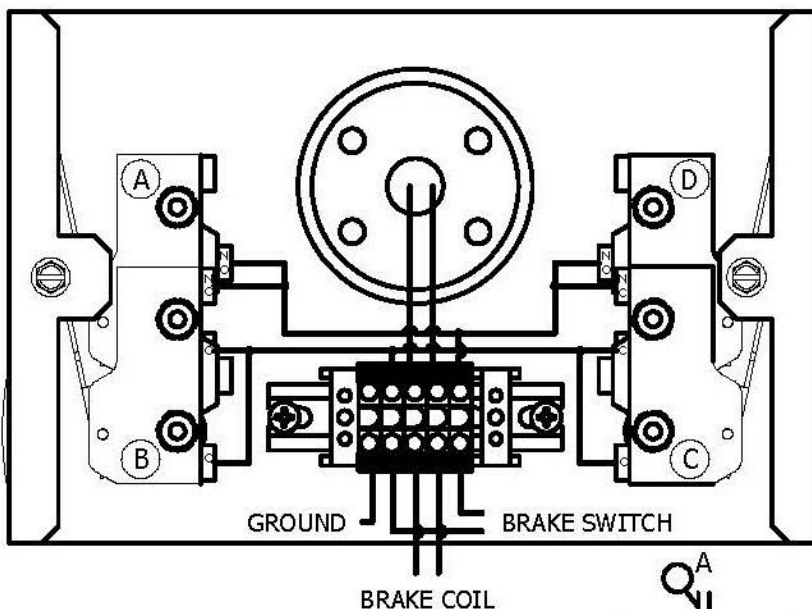
WARNING: IN ORDER TO DETECT A BRAKE FAILURE, THIS BRAKE MONITOR SWITCH MUST BE PROPERLY ADJUSTED & FULLY OPERATIONAL PRIOR TO BEING PLACED INTO SERVICE.

IMPORTANT: READ ENTIRE INSTRUCTIONS BEFORE ATTEMPTING ADJUSTMENT!!!

⚠ WARNING

SHOCK WARNING: ACTIVE ELECTRIC CIRCUITS!!

102-092 BRAKE MONITOR



BRAKE MONITOR PARALLEL CIRCUIT ASSEMBLY 102-092

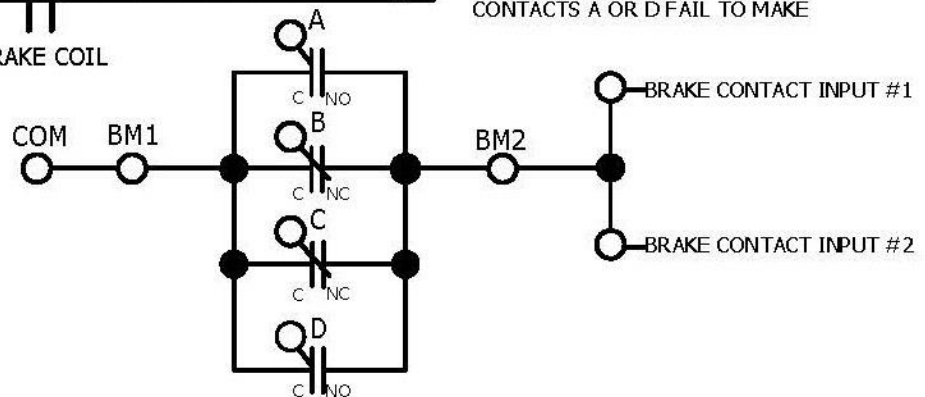
NORMAL BRAKE DE-ENERGIZED
ALL CONTACTS ARE OPEN
CIRCUIT OPEN BETWEEN BM1 & BM2

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

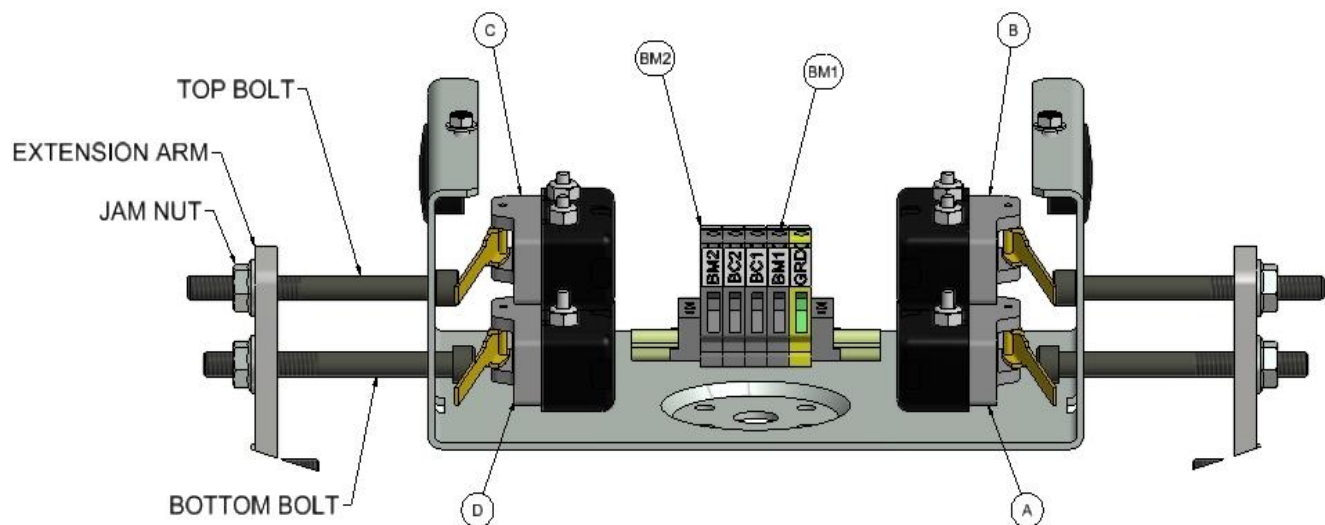


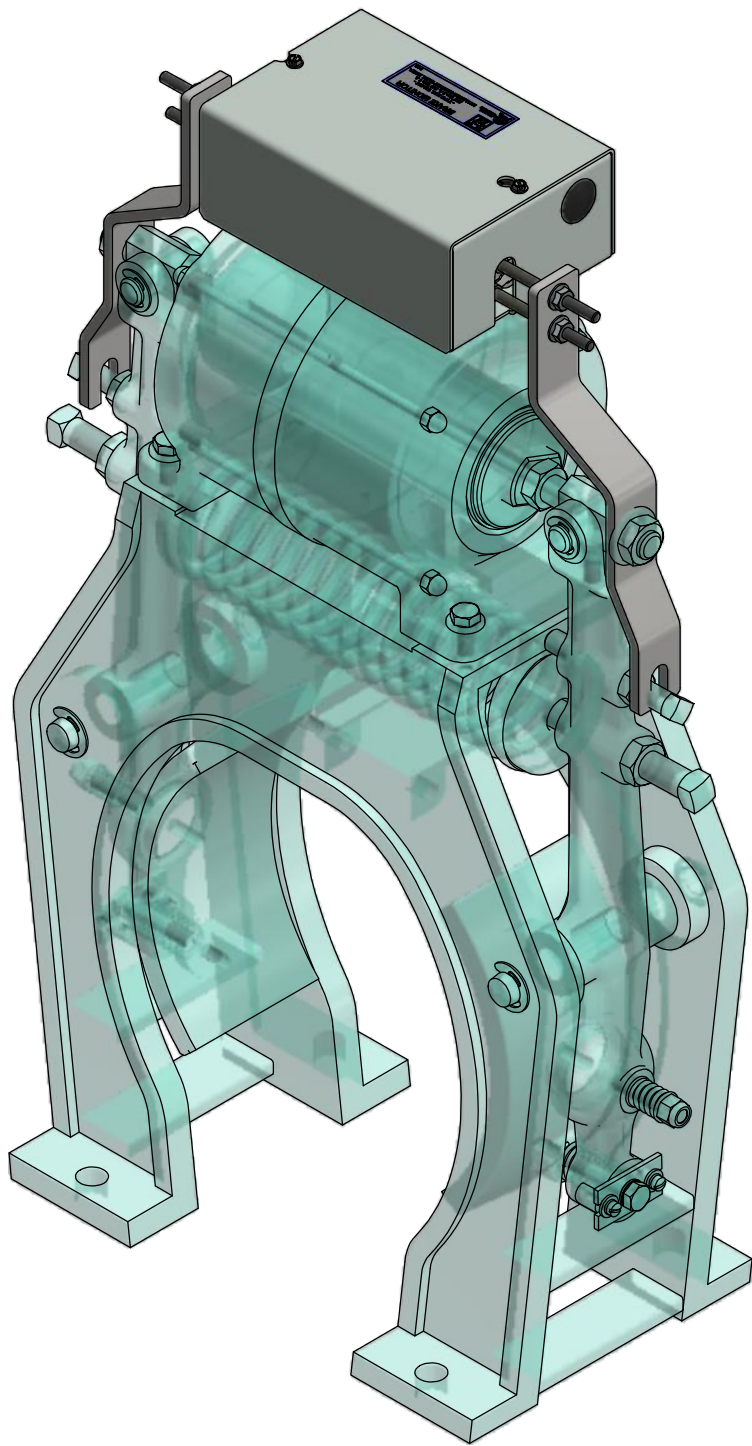
BRAKE MONITOR ADJUSTMENT: (For 102-091 & 102-092 Monitors)

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

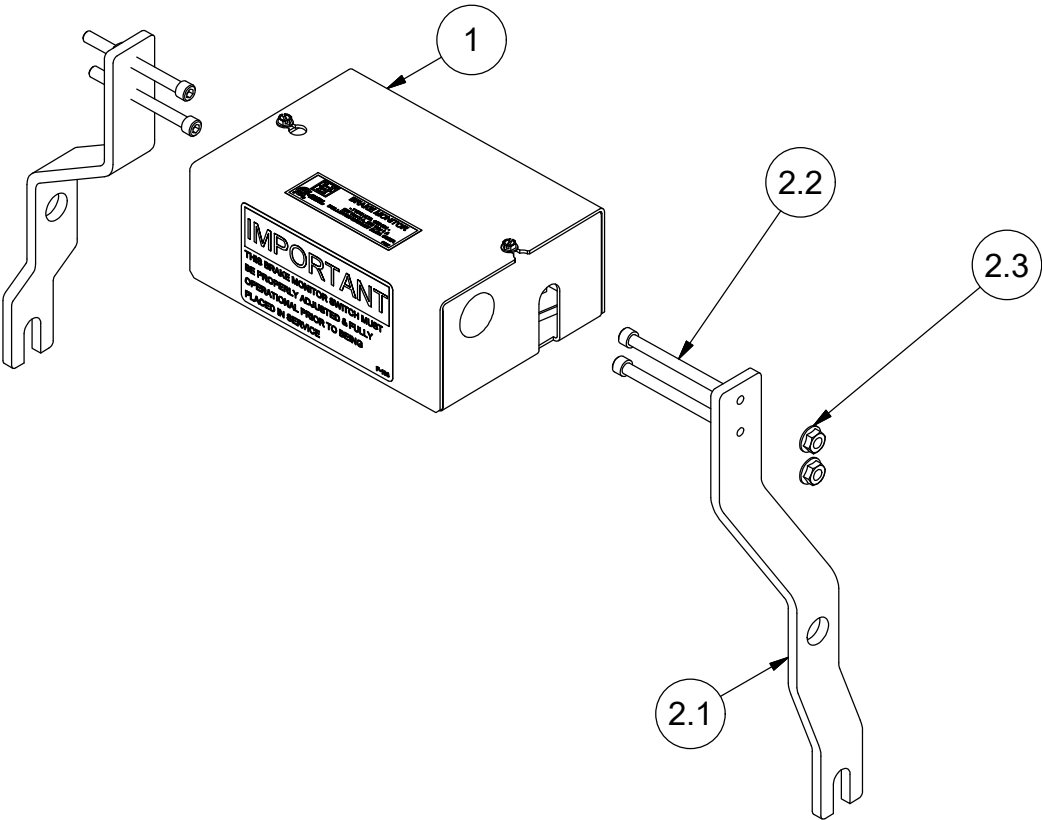
→→→→→→→→ IN ←←←←←←←←
←←←←←←←← OUT →→→→→→→→
MONITOR SHOWN WITH COVER REMOVED





MONITOR KIT SHOWN
INSTALLED ON #90 BRAKE.
#80, 81, 85, 86, & 91 SIMILAR

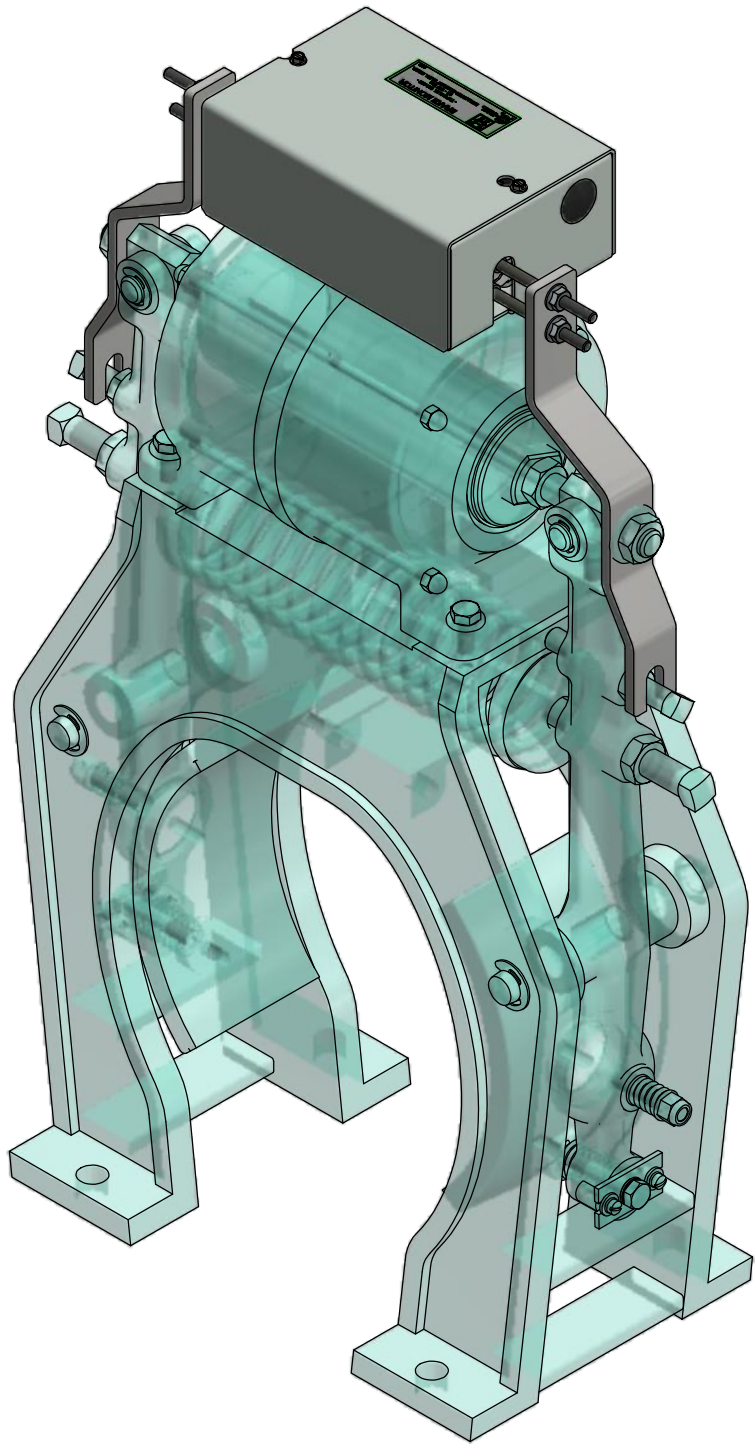
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	90HDW-093	90 BRAKE MONITOR - HARDWARE KIT
2.1	2	90-093	EXTENSION - BRAKE ARM 90 - DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #80, 81, 85, 86, 90, & 91
DRUM BRAKES

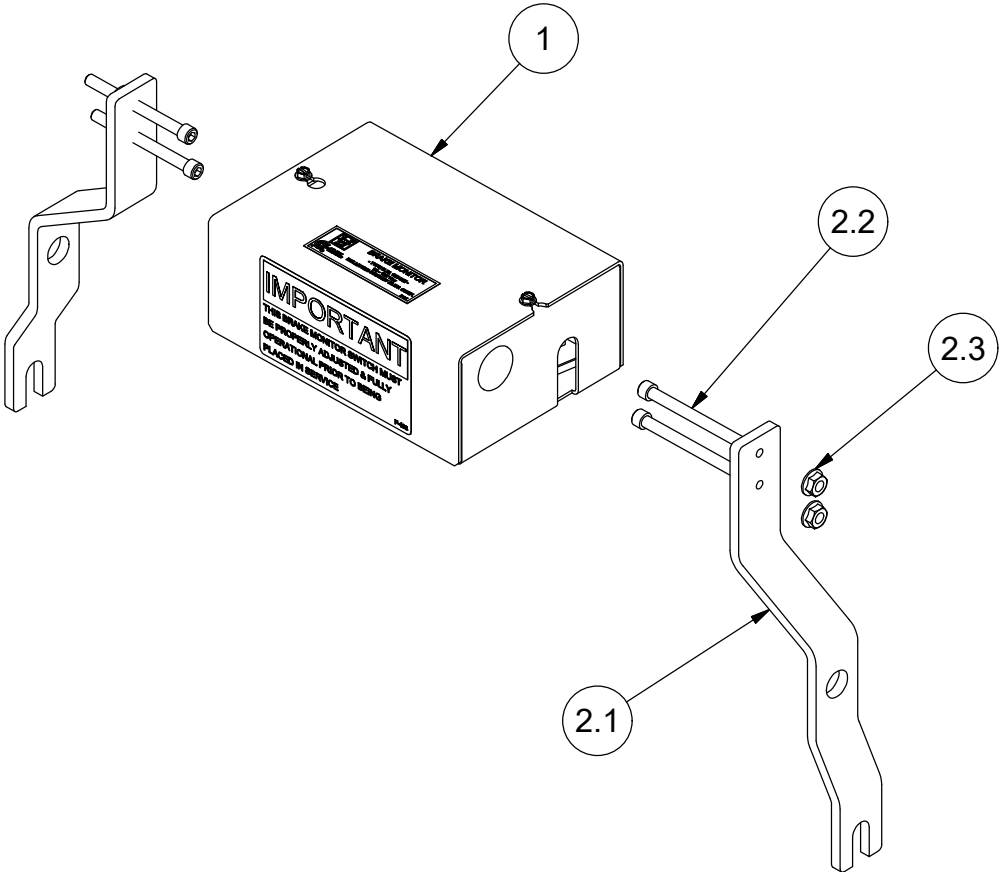
WEIGHT: 5.253 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/22/17	TITLE KIT, BRAKE MONITOR, WIRED IN SERIES w/NORMAL CONTACTS - 90 DRUM BRAKE			
			A	NEW PRODUCTION PRINT, PUR #574	BLG 5/01/13				
THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 3/1/2013	90-094 SHEET 1 OF 1



MONITOR KIT SHOWN
INSTALLED ON #90 BRAKE.
#80, 81, 85, 86, & 91 SIMILAR

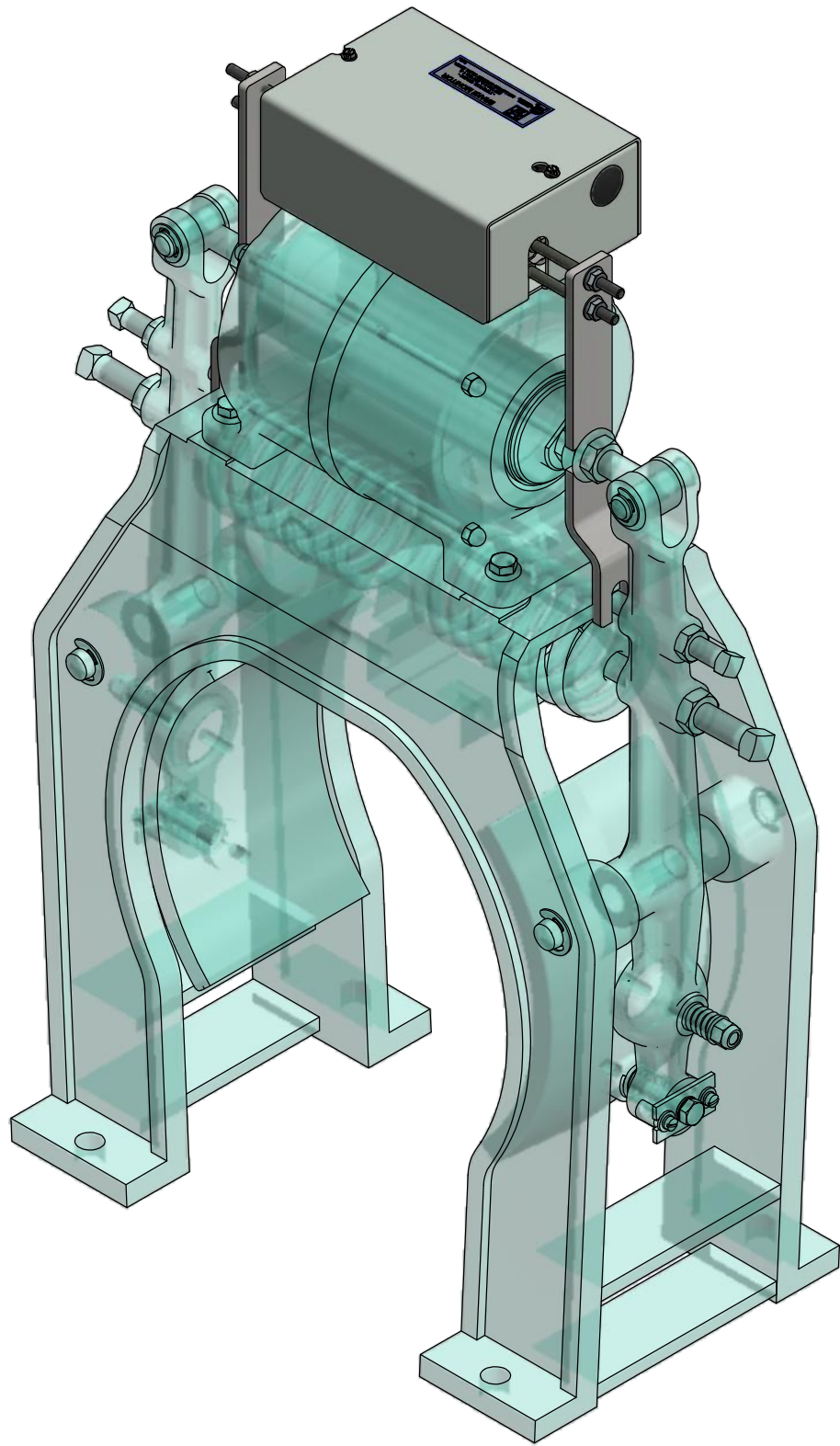
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	90HDW-093	90 BRAKE MONITOR - HARDWARE KIT
2.1	2	90-093	EXTENSION - BRAKE ARM 90 - DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #80, 81, 85, 86, 90, & 91
DRUM BRAKES

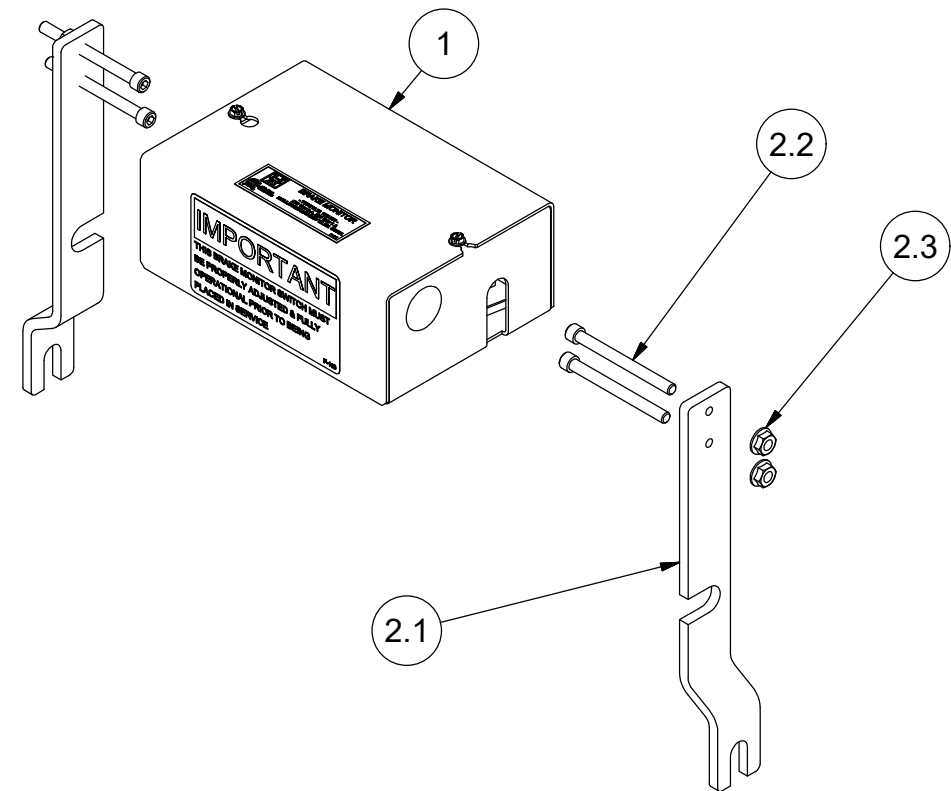
WEIGHT: 5.250 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/22/17	TITLE KIT, BRAKE MONITOR, PARALLEL WIRING w/GOLD CONTACTS - 90 DRUM BRAKE			
			A	NEW PRODUCTION PRINT, PUR #574	BLG 4/30/13				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY	SCALE	MATERIAL	REFERENCE TOL.
						BLG	1 / 4	SEE PARTS LIST	ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE		DATE	90-095
						B		4/23/2013	SHEET 1 OF 1



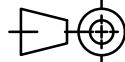
MONITOR KIT SHOWN
INSTALLED ON #100 BRAKE.
#95, 96, 101, 105, 106,
110, & 111 BRAKES SIMILAR.

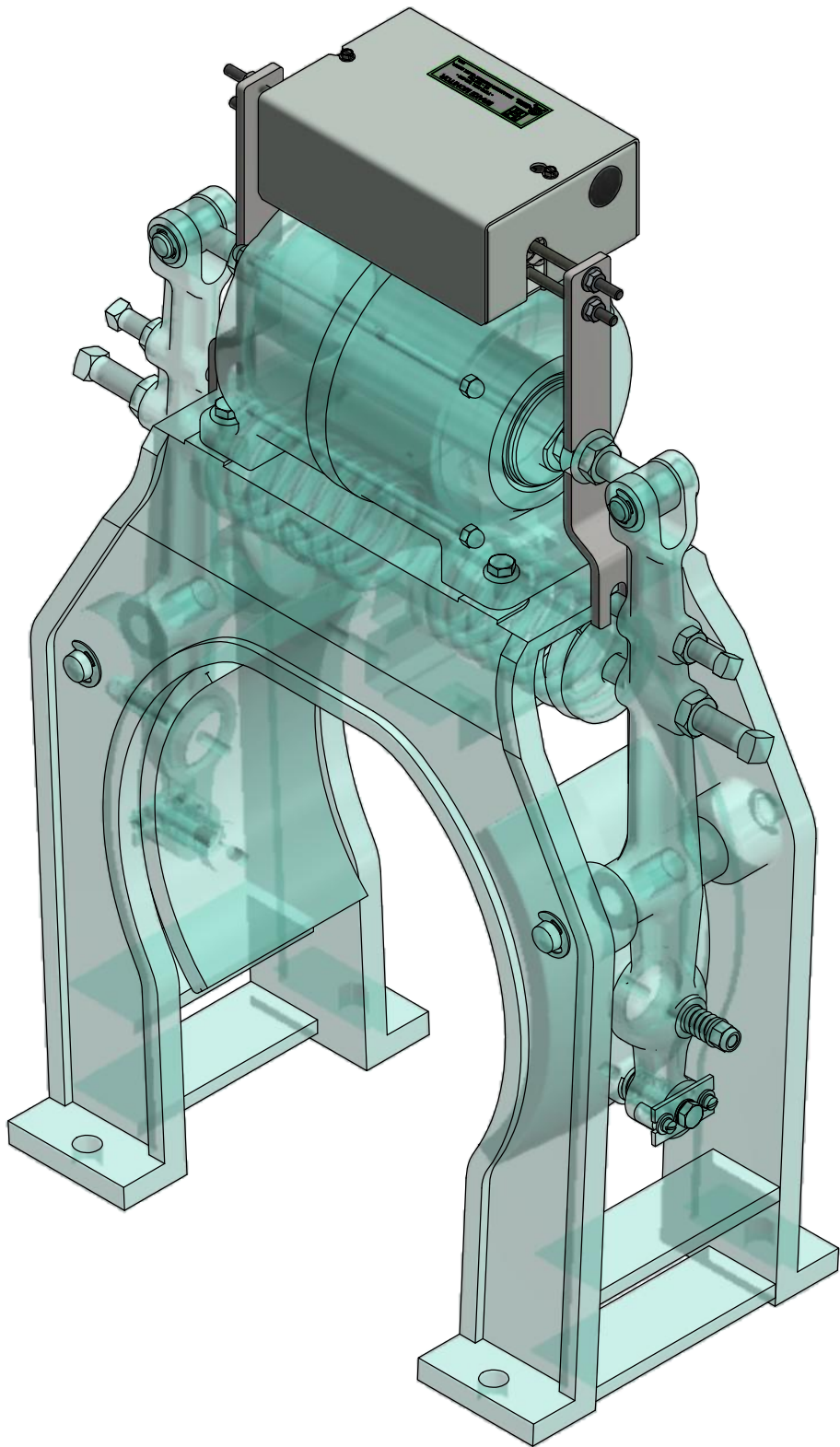
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	100HDW-093	100 & 110 BRAKE MONITOR - HARDWARE KIT
2.1	2	100-093	EXTENSION - BRAKE ARM 100 & 110 DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #95, 96, 100, 101, 105, 106,
110, & 111 DRUM BRAKES

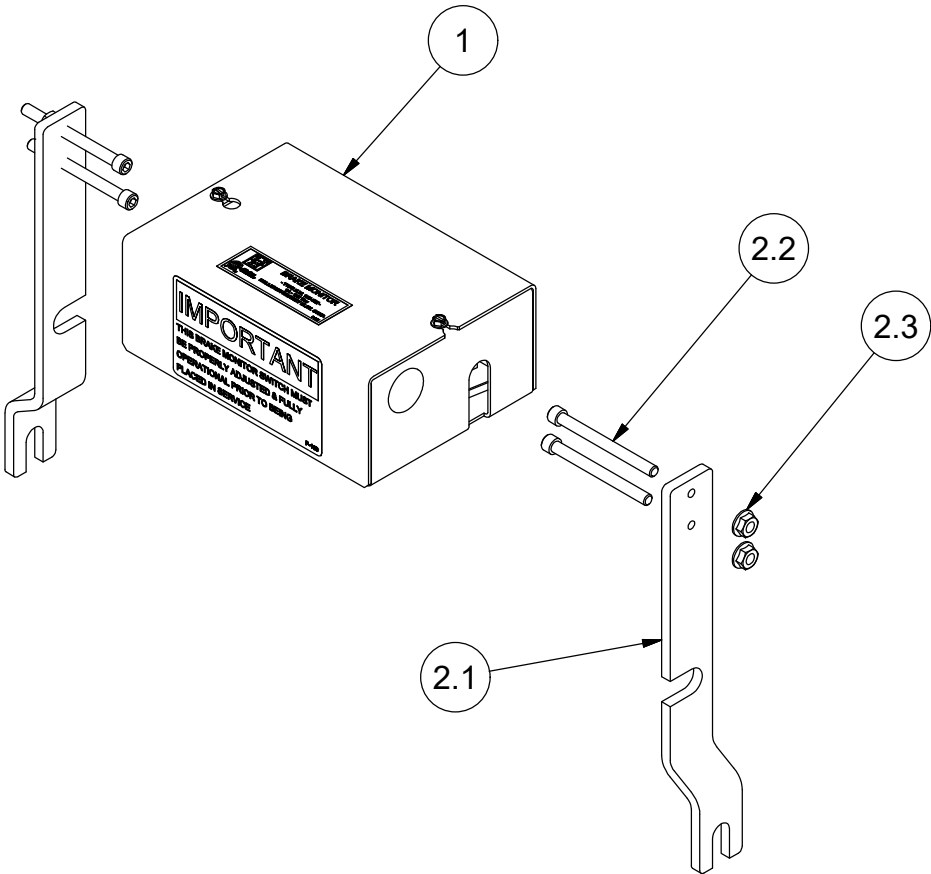
WEIGHT: 5.039 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC				
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/23/17	TITLE KIT, BRAKE MONITOR, WIRED IN SERIES w/NORMAL CONTACTS - 100 & 110 DRUM BRAKE				
			A	NEW PRODUCTION PRINT, PUR #574	BLG 4/30/13					
THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION. VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED	
						SHEET SIZE B		DATE 3/1/2013		100-094 SHEET 1 OF 1



MONITOR KIT SHOWN
INSTALLED ON #100 BRAKE.
#95, 96, 101, 105, 106,
110, & 111 BRAKES SIMILAR.

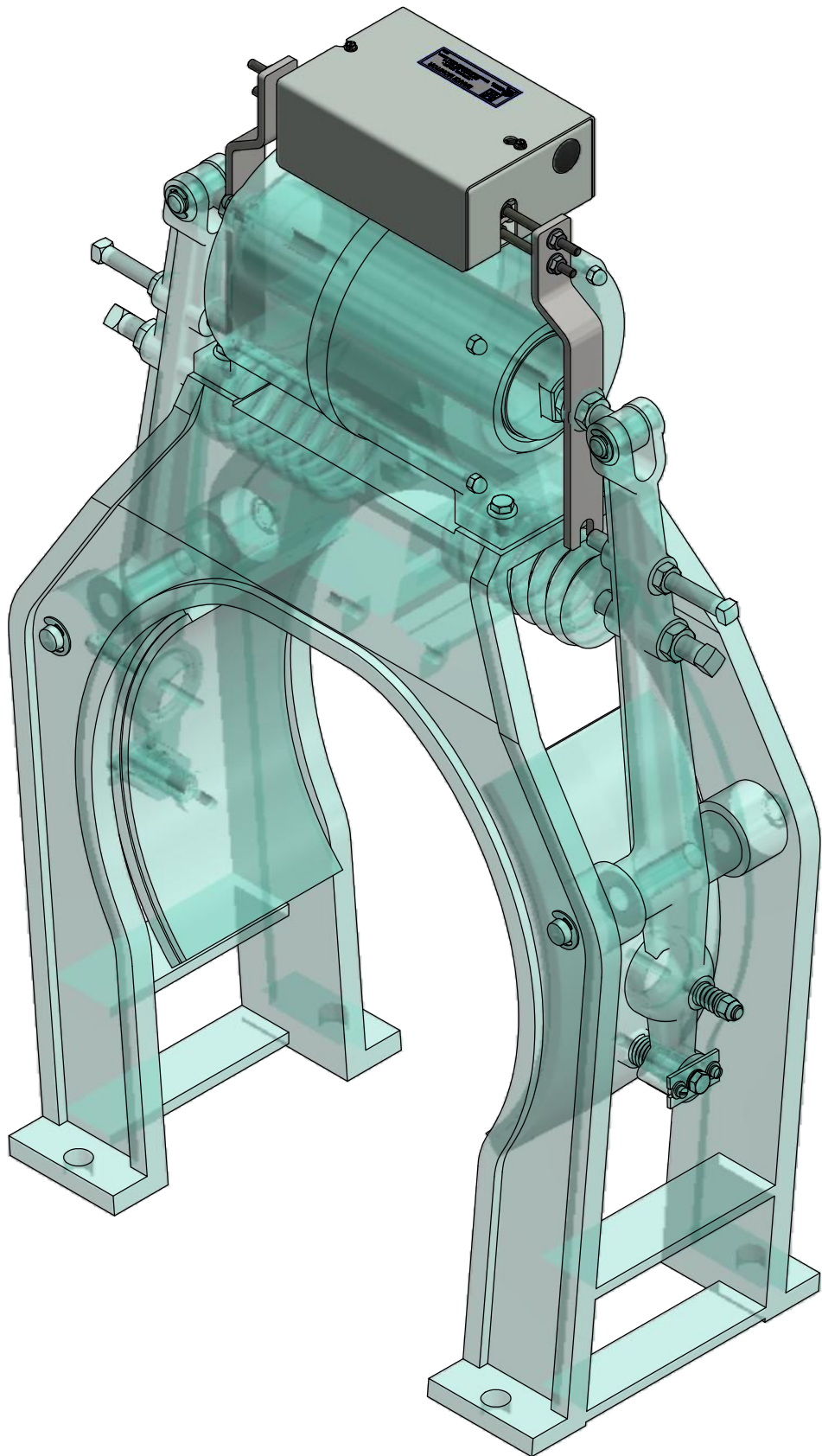
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	100HDW-093	100 & 110 BRAKE MONITOR - HARDWARE KIT
2.1	2	100-093	EXTENSION - BRAKE ARM 100 & 110 DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #95, 96, 100, 101, 105, 106,
110, & 111 DRUM BRAKES

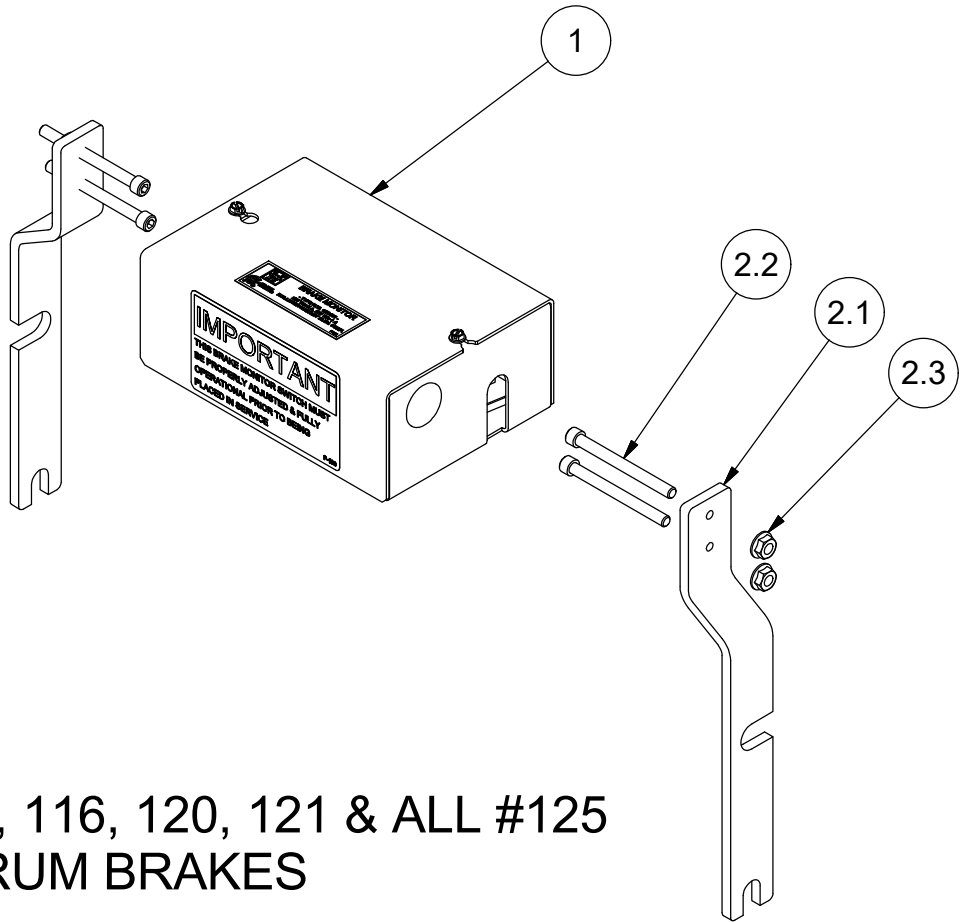
WEIGHT: 5.036 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/23/17	TITLE KIT, BRAKE MONITOR, PARALLEL WIRING w/GOLD CONTACTS - 100 & 110 DRUM BRAKE			
			A	NEW PRODUCTION PRINT, PUR #574	BLG 4/30/13				
THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION. VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 4/23/2013	100-095 SHEET 1 OF 1



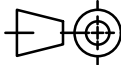
MONITOR KIT SHOWN
INSTALLED ON #120 BRAKE.
#115, 116, 121 & 125 BRAKES SIMILAR

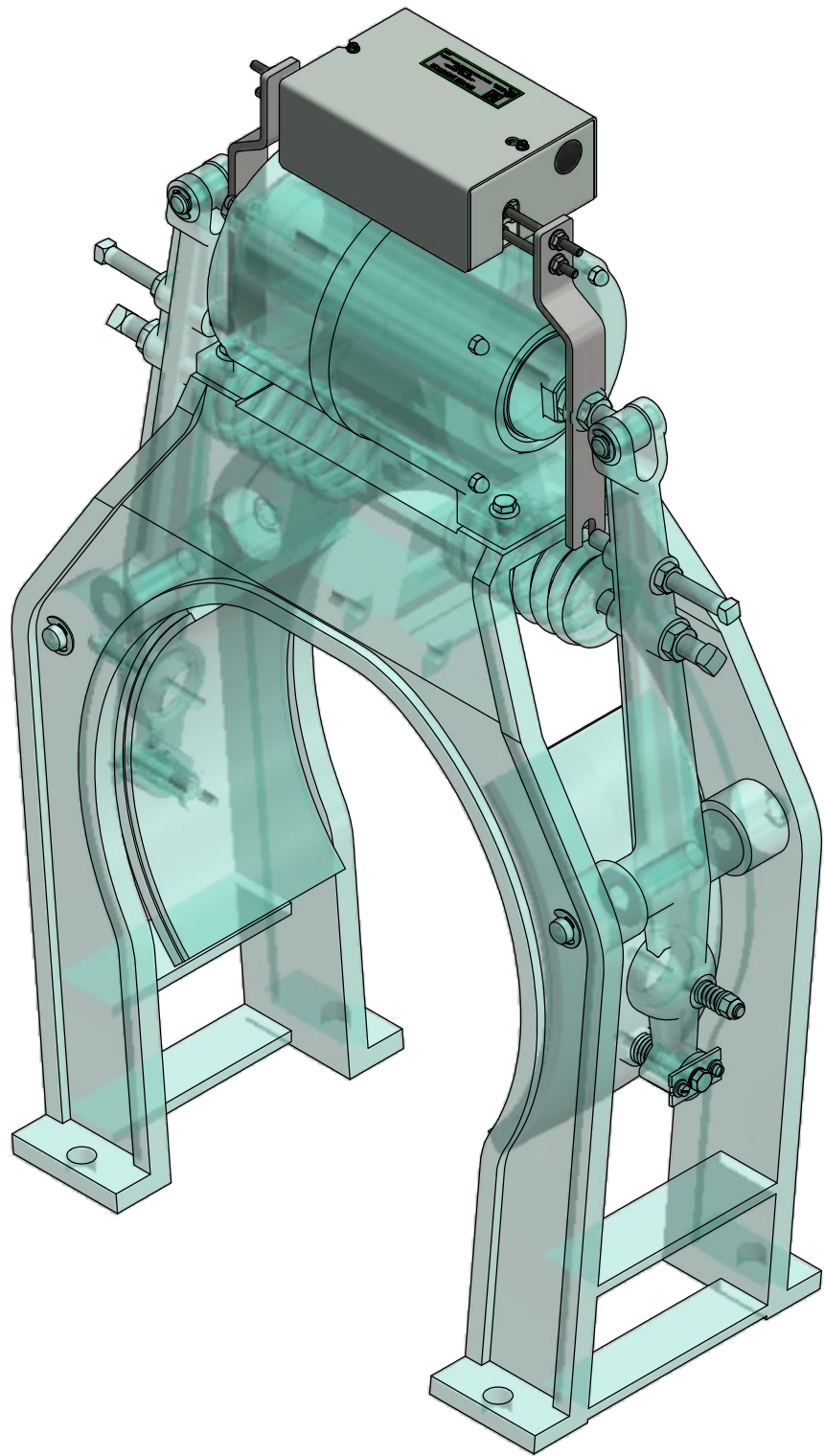
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-091	BRAKE MONITOR ASSEMBLY
2	1	120HDW-093	120 BRAKE MONITOR - HARDWARE KIT
2.1	2	120-093	EXTENSION - BRAKE ARM 120 - DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #115, 116, 120, 121 & ALL #125
DRUM BRAKES

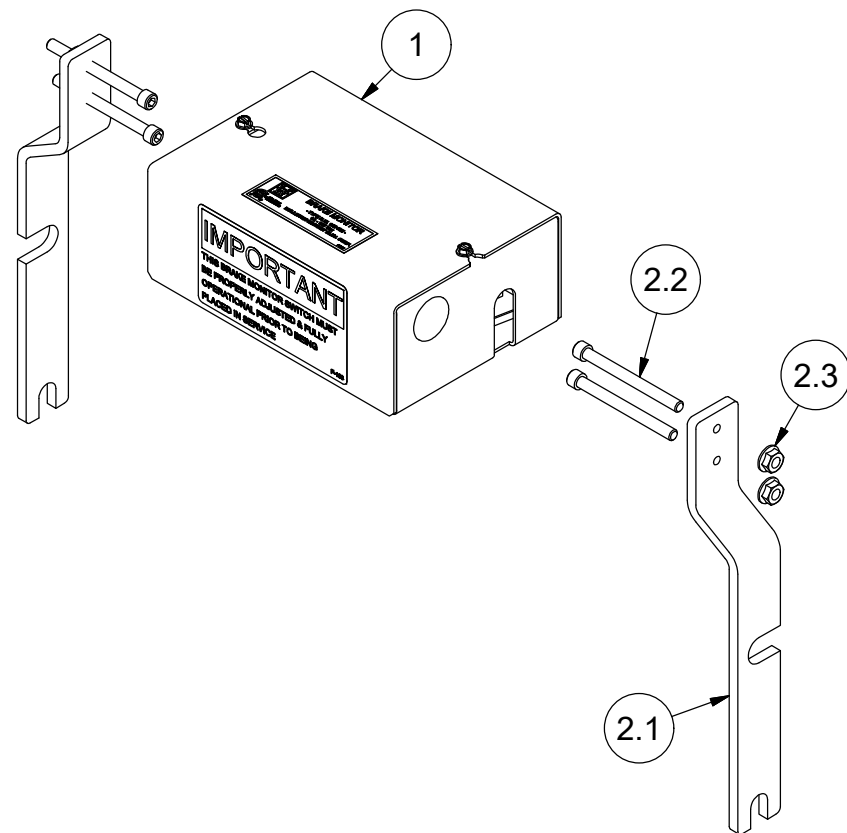
WEIGHT: 5.187 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/23/17	TITLE KIT, BRAKE MONITOR, WIRED IN SERIES w/NORMAL CONTACTS - 120 DRUM BRAKE			
			A	NEW PRODUCTION PRINT, PUR #574	BLG 5/01/13				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION 		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 3/1/2013	



MONITOR KIT SHOWN
INSTALLED ON #120 BRAKE.
#115, 116, 121 & 125 BRAKES SIMILAR

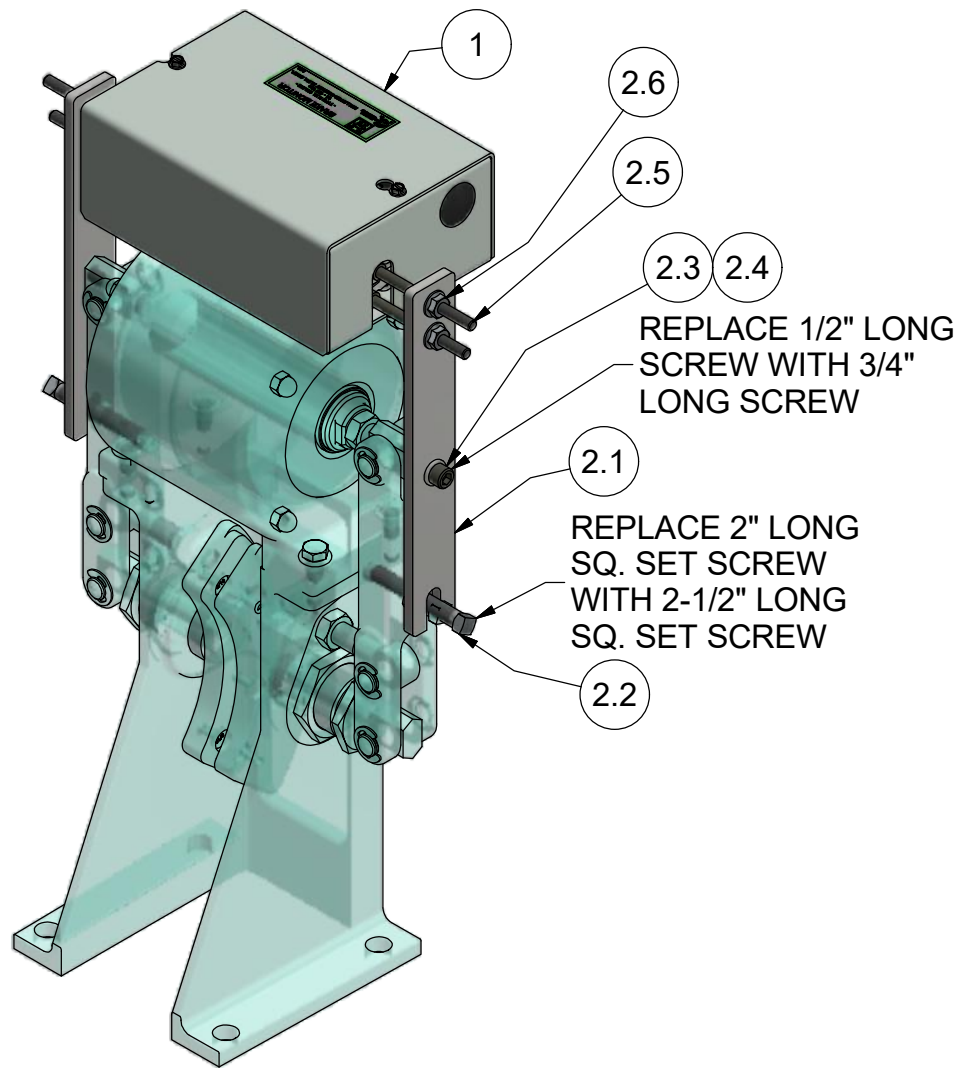
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	120HDW-093	120 BRAKE MONITOR - HARDWARE KIT
2.1	2	120-093	EXTENSION - BRAKE ARM 120 - DRUM BRAKE
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #115, 116, 120, 121 & ALL #125
DRUM BRAKES

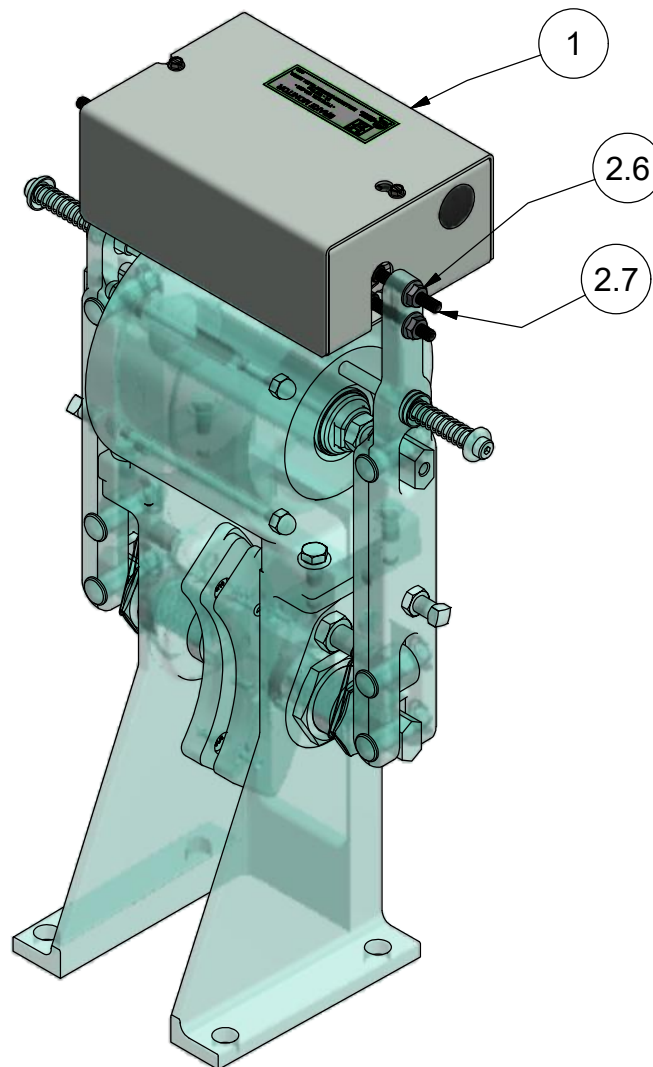
WEIGHT: 5.185 lbmass

			C	REDRAW, NOTES, NEW TITLE BLOCK, PUR #1195	LTL 9/17/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/23/17				
			A	NEW PRODUCTION PRINT, PUR #574	BLG 4/30/13	TITLE KIT, BRAKE MONITOR, PARALLEL WIRING w/GOLD CONTACTS - 120 DRUM BRAKE			
THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION. VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY. THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 4/23/2013	120-095 SHEET 1 OF 1



MONITOR KIT SHOWN
INSTALLED ON BRAKE
w/OLD STYLE BRAKE ARMS.
ITEM 2.7 NOT USED

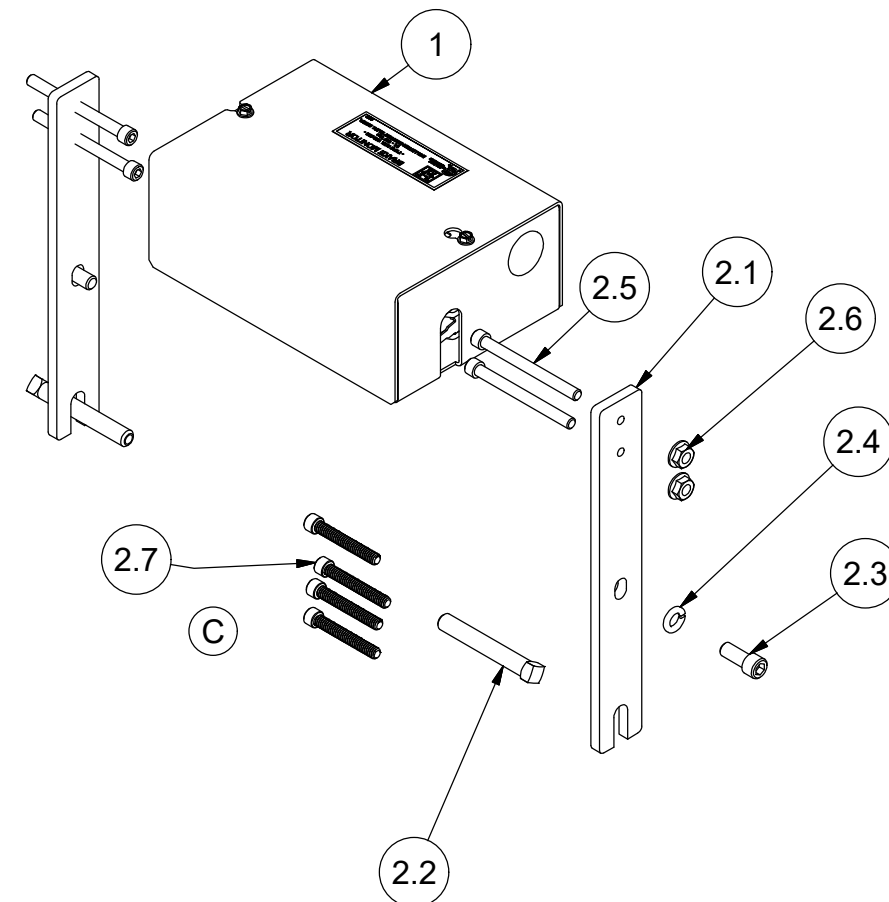
C



C
MONITOR KIT SHOWN INSTALLED
ON BRAKE w/CURRENT STYLE
BRAKE ARMS.
ITEMS 2.1, 2.2, 2.3, 2.4 & 2.5 NOT USED

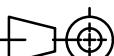
PARTS LIST

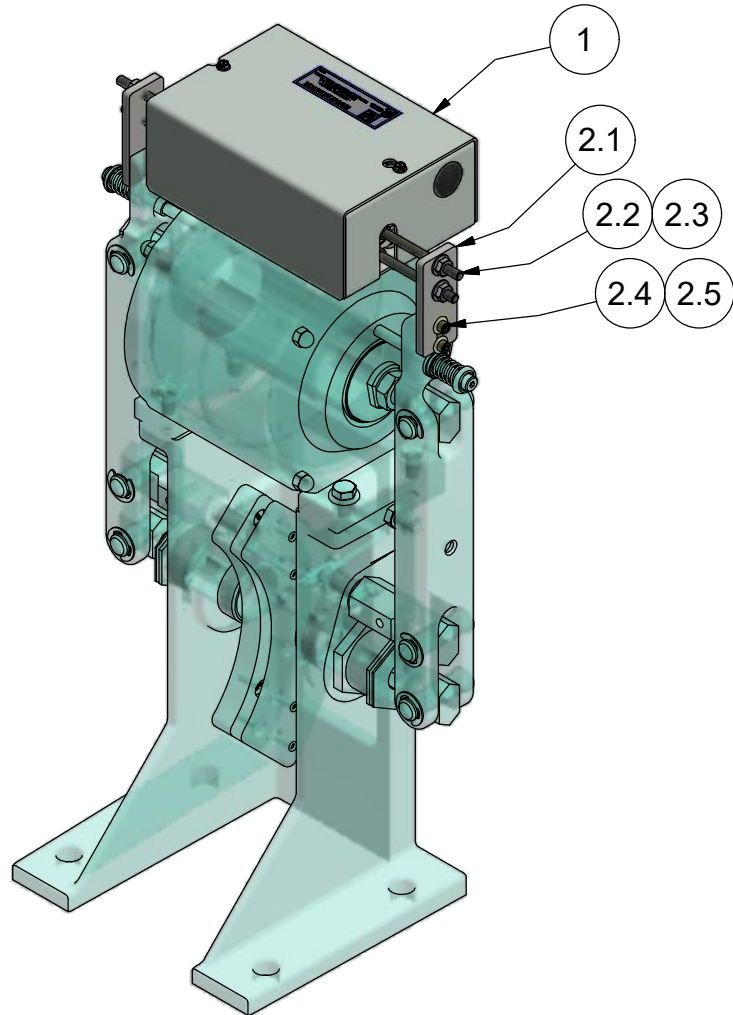
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	92HDW-093	92 BRAKE MONITOR - HARDWARE KIT
2.1	2	92-093	EXTENSION ARM - 92 DISC BRAKE
2.2	2	3/8 - 16 UNC X 2.5	SQUARE HEAD SET SCREW
2.3	2	5/16-18 UNC x 0.75	SOCKET HEAD CAP SCREW
2.4	2	5/16 WASHER	STANDARD LOCK
2.5	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.6	4	1/4" - 20 UNC	SERRATED FLANGE NUT
2.7	4	92-100	MONITOR ACTIVATION BOLT - 1/4"-20UNC x 1.75" SHCS - FULLY THREADED



WEIGHT: 5.261 lbmass

BRAKE USED ON #34
GEARED MACHINE

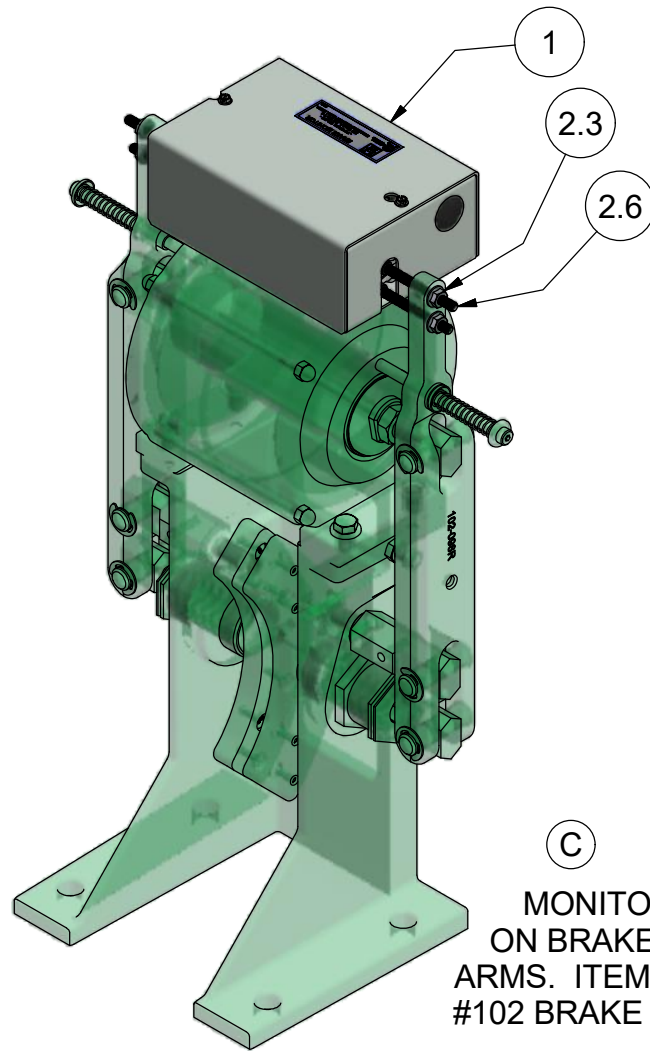
			C	BRAKE VIEW, NEW T.B., PUR #1195	LTL 9/12/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC				
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/7/17	TITLE KIT, BRAKE MONITOR, PARALLEL WIRING w/GOLD CONTACTS - 92 DISC BRAKE				
C	UPDATE HARDWARE, REDRAW, ADD CURRENT	LTL 9/12/19	A	PRODUCTION RELEASE, PUR #574	BLG 5/01/13					
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY BLG		SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 3/1/2013		92-095 SHEET 1 OF 1



MONITOR KIT SHOWN INSTALLED
ON BRAKE w/OLD STYLE BRAKE
ARMS. ITEM 2.6 NOT USED.
#102 BRAKE SHOWN, #112 BRAKE SIMILAR

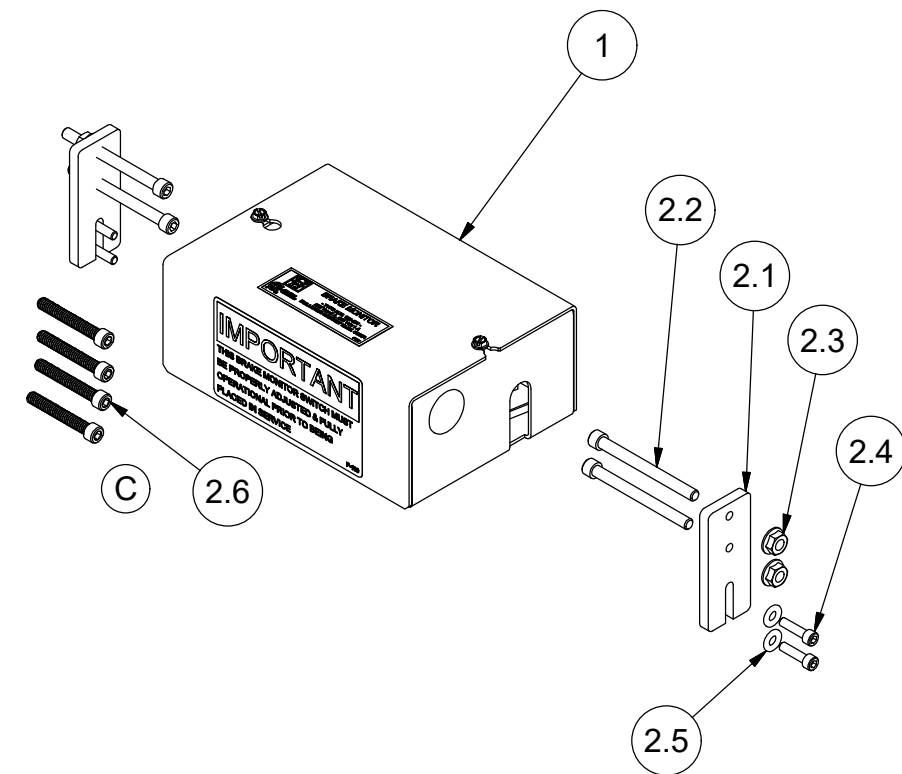
#102 BRAKE USED ON #44 &
#54 GEARED MACHINES.

#112 BRAKE USED ON #64
GEARED MACHINE.

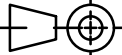


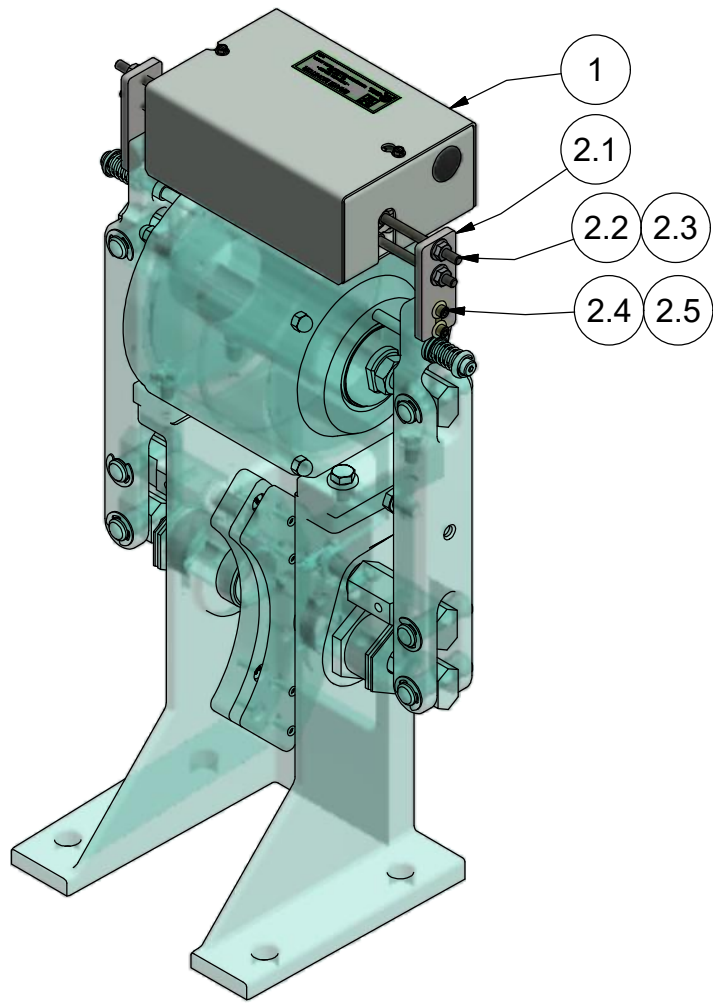
MONITOR KIT SHOWN INSTALLED
ON BRAKE w/CURRENT STYLE BRAKE
ARMS. ITEMS 2.1, 2.2, 2.4 & 2.5 NOT USED.
#102 BRAKE SHOWN, #112 BRAKE SIMILAR

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	SERRATED FLANGE NUT
2.4	4	10-24 UNC x 0.75	SOCKET HEAD CAP SCREW
2.5	4	#10 WASHER	STANDARD WASHER
2.6	4	92-100	MONITOR ACTIVATION BOLT - 1/4"-20UNC x 1.75" SHCS - FULLY THREADED

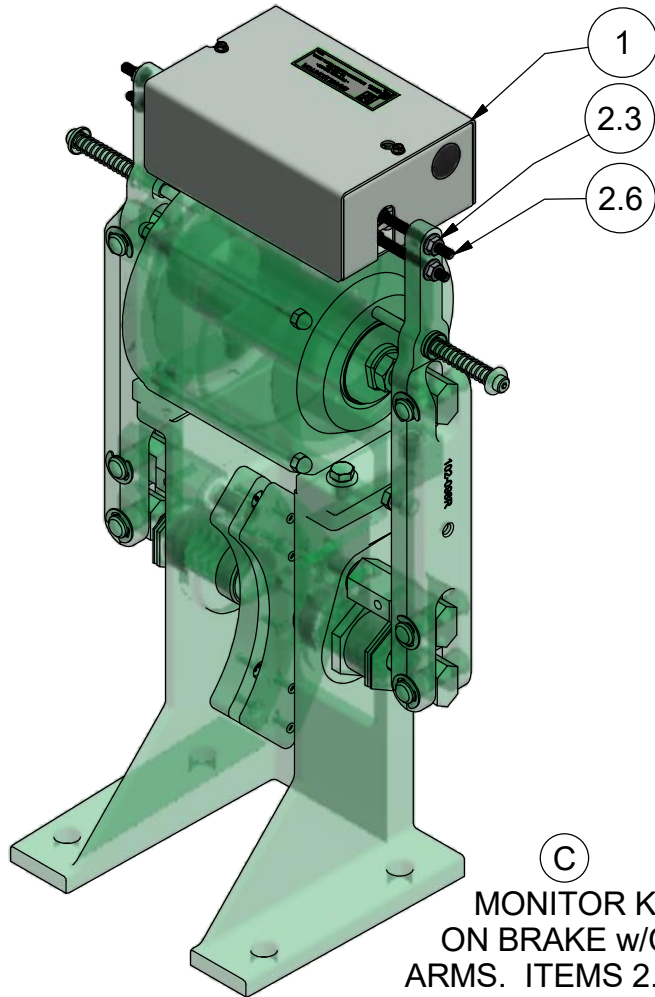


WEIGHT: 4.092 lbmass

			C	BRAKE VIEW, NEW T.B., PUR #1195	LTL 9/12/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/7/17	TITLE KIT, BRAKE MONITOR, SERIES WIRING w/NORMAL CONTACTS - 102 & 112 DISC BRAKE			
C	UPDATE HARDWARE, REDRAW, ADD CURRENT	LTL 9/12/19	A	NEW PRODUCTION PRINT, PUR #574	BLG 5/01/13				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 3/1/2013	

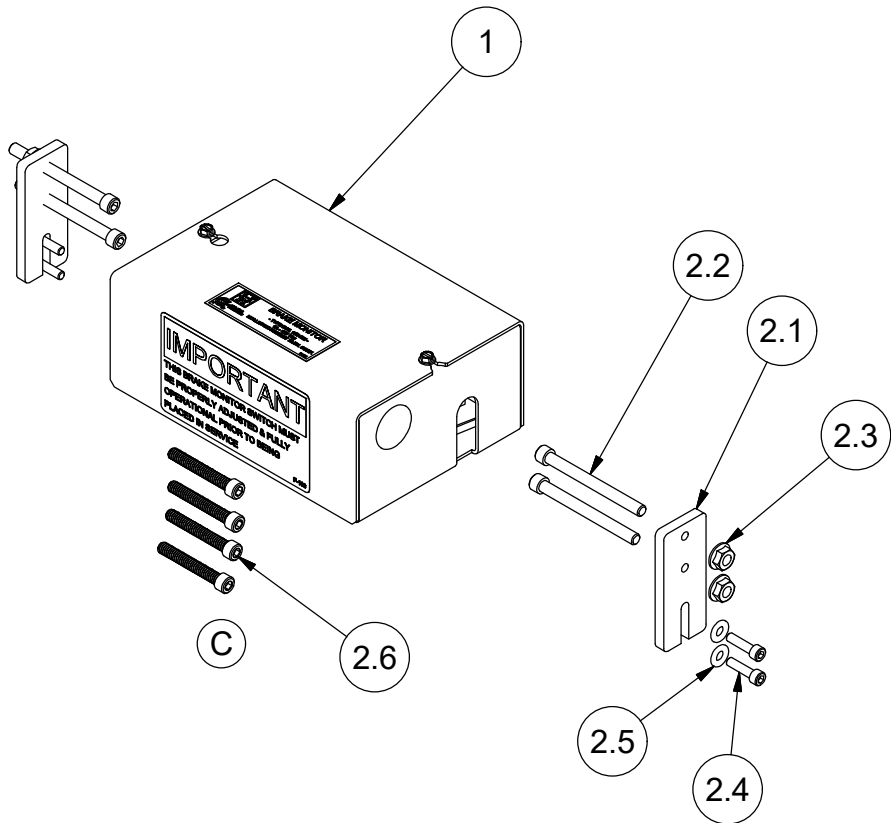


MONITOR KIT SHOWN INSTALLED
ON BRAKE w/OLD STYLE BRAKE
ARMS. ITEM 2.6 NOT USED.
#102 BRAKE SHOWN, #112 BRAKE SIMILAR



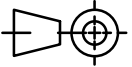
MONITOR KIT SHOWN INSTALLED
ON BRAKE w/CURRENT STYLE BRAKE
ARMS. ITEMS 2.1, 2.2, 2.4 & 2.5 NOT USED.
#102 BRAKE SHOWN, #112 BRAKE SIMILAR

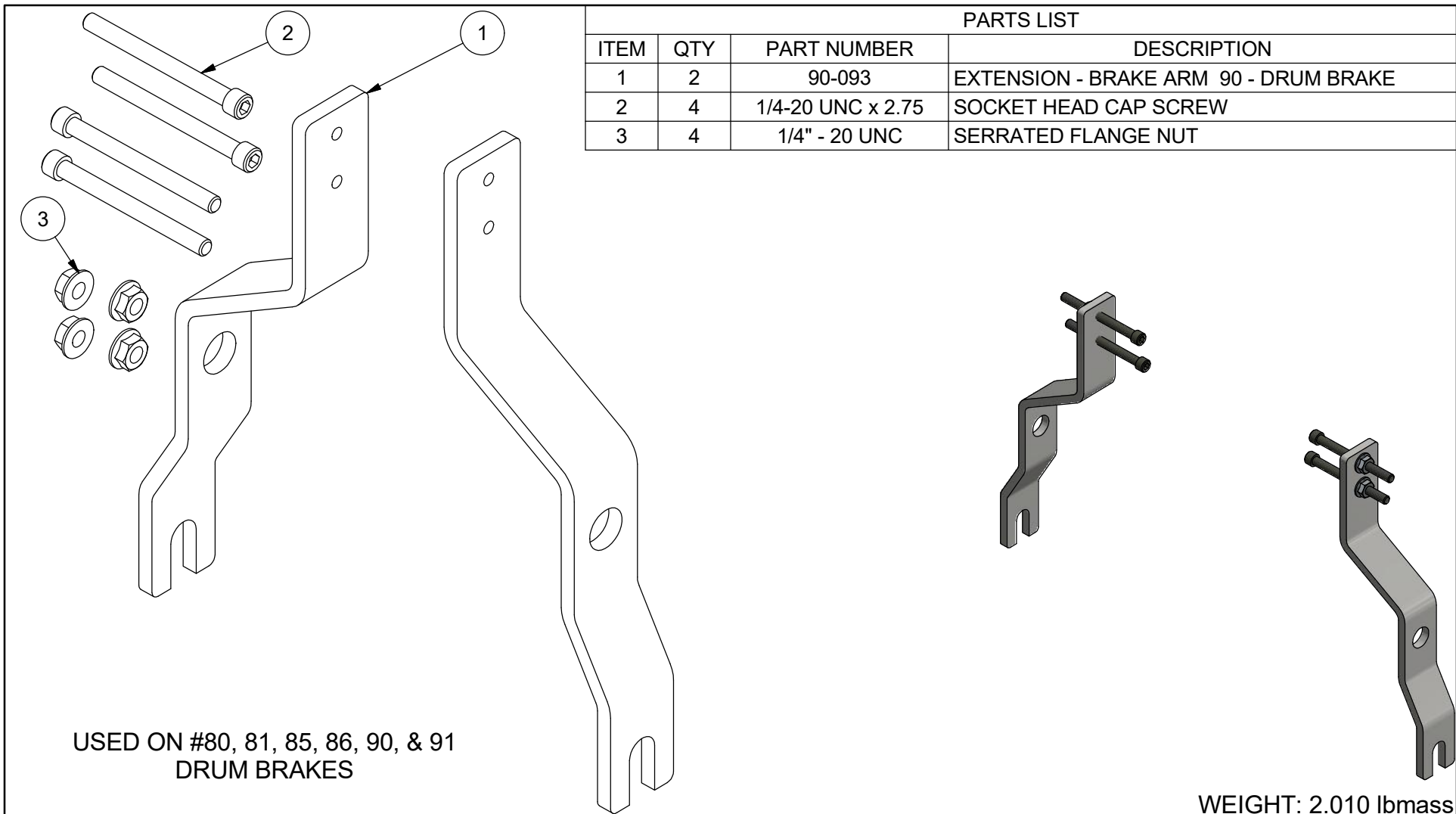
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	102-092	BRAKE MONITOR ASSEMBLY SWITCHES w/ GOLD CONTACTS
2	1	102HDW-093	102 BRAKE MONITOR - HARDWARE KIT
2.1	2	102-093	EXTENSION - BRAKE ARM 102 & 112 DISC BRAKES
2.2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
2.3	4	1/4" - 20 UNC	SERRATED FLANGE NUT
2.4	4	10-24 UNC x 0.75	SOCKET HEAD CAP SCREW
2.5	4	#10 WASHER	STANDARD WASHER
2.6	4	92-100	MONITOR ACTIVATION BOLT - 1/4"-20UNC x 1.75" SHCS - FULLY THREADED



#102 BRAKE USED ON #44 &
#54 GEARED MACHINES.

#112 BRAKE USED ON #64
GEARED MACHINE.

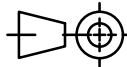
			C	BRAKE VIEW, NEW T.B., PUR #1195	LTL 9/12/19	HOLLISTER-WHITNEY ELEVATOR CO. LLC			
			B	SCREWS & ETC TO HARDWARE KIT, PUR #846	LTL 3/7/17	TITLE KIT, BRAKE MONITOR, PARALLEL WIRING w/GOLD CONTACTS - 102 & 112 DISC BRAKE			
C	UPDATE HARDWARE, REDRAW, ADD CURRENT	LTL 9/12/19	A	PRODUCTION RELEASE, PUR #574	BLG 5/01/13				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION. VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION 		DRAWN BY BLG	SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE B		DATE 4/23/2013	



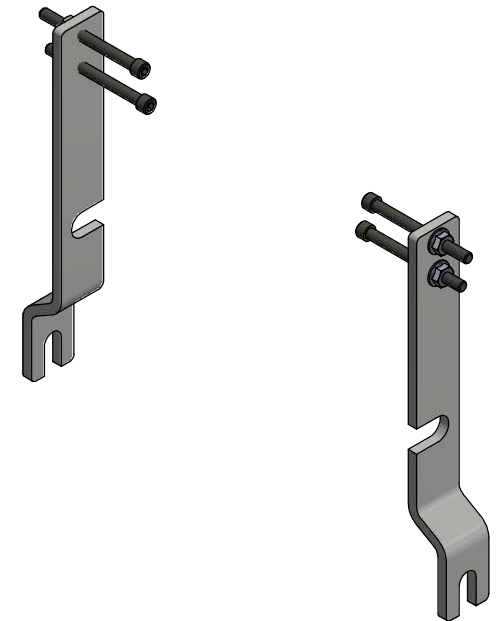
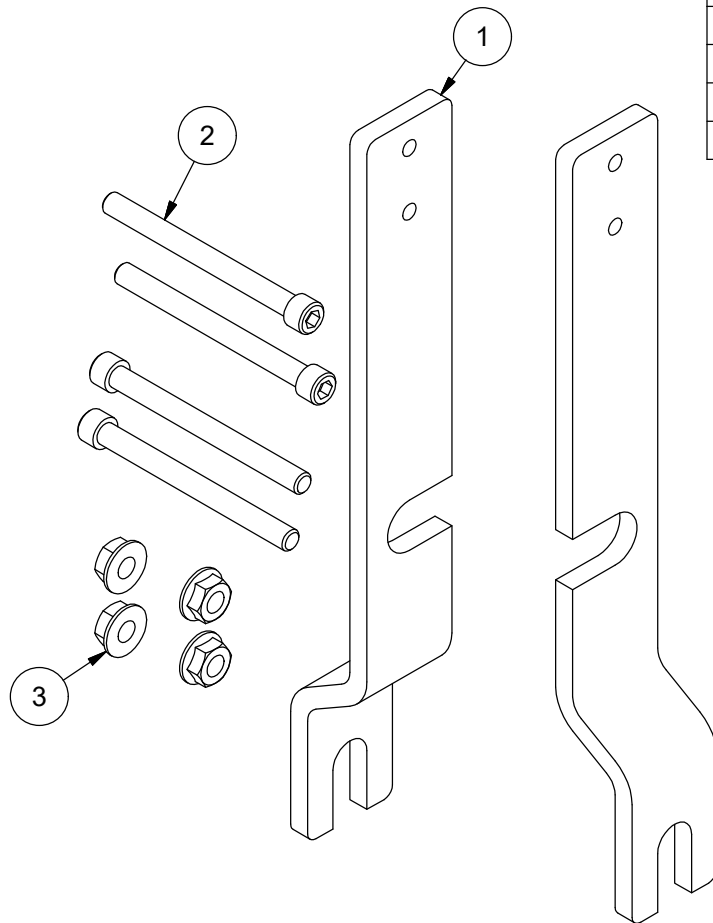
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	90-093	EXTENSION - BRAKE ARM 90 - DRUM BRAKE
2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
3	4	1/4" - 20 UNC	SERRATED FLANGE NUT

USED ON #80, 81, 85, 86, 90, & 91
DRUM BRAKES

WEIGHT: 2.010 lbmass


						HOLLISTER-WHITNEY ELEVATOR CO. LLC				
			B	NEW TITLE BLOCK, NOTES, PUR #1195	LTL 9/17/19	TITLE				
			A	PRODUCTION RELEASE, PUR #846	LTL 3/23/17	90 BRAKE MONITOR - HARDWARE KIT				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY LTL	SCALE 1 / 4	MATERIAL SEE PARTS LIST		REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE A		DATE 2/8/2017		90HDW-093 SHEET 1 OF 1

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	100-093	EXTENSION - BRAKE ARM 100 & 110 DRUM BRAKE
2	4	1/4-20 UNC x 2.75	SOCKET HEAD CAP SCREW
3	4	1/4" - 20 UNC	SERRATED FLANGE NUT



USED ON #95, 96, 100, 101,
105, 106, 110, & 111 DRUM
BRAKES

WEIGHT: 1.795 lbmass

						HOLLISTER-WHITNEY ELEVATOR CO. LLC				
			B	NEW TITLE BLOCK, NOTES, PUR #1195	LTL 9/17/19	TITLE				
			A	PRODUCTION RELEASE, PUR #846	LTL 3/23/17	100 & 110 BRAKE MONITOR - HARDWARE KIT				
<p>THIS DRAWING IS SUPPLIED AS A REPRESENTATION OF THE EQUIPMENT HOLLISTER-WHITNEY ELEVATOR CO. LLC ("MANUFACTURER") HAS AGREED TO SUPPLY. SLIGHT ADJUSTMENTS MAY OCCUR DURING MANUFACTURING AND INSTALLATION. ANY MODIFICATIONS NOT APPROVED IN WRITING BY MANUFACTURER MAY AFFECT OPERATION, VOIDS ANY WARRANTY AND RELEASES MANUFACTURER OF ALL LIABILITY.</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR IN PART, WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER.</p>				THIRD ANGLE PROJECTION		DRAWN BY LTL		SCALE 1 / 4	MATERIAL SEE PARTS LIST	REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED
						SHEET SIZE A		DATE 3/23/2017		100HDW-093 SHEET 1 OF 1

