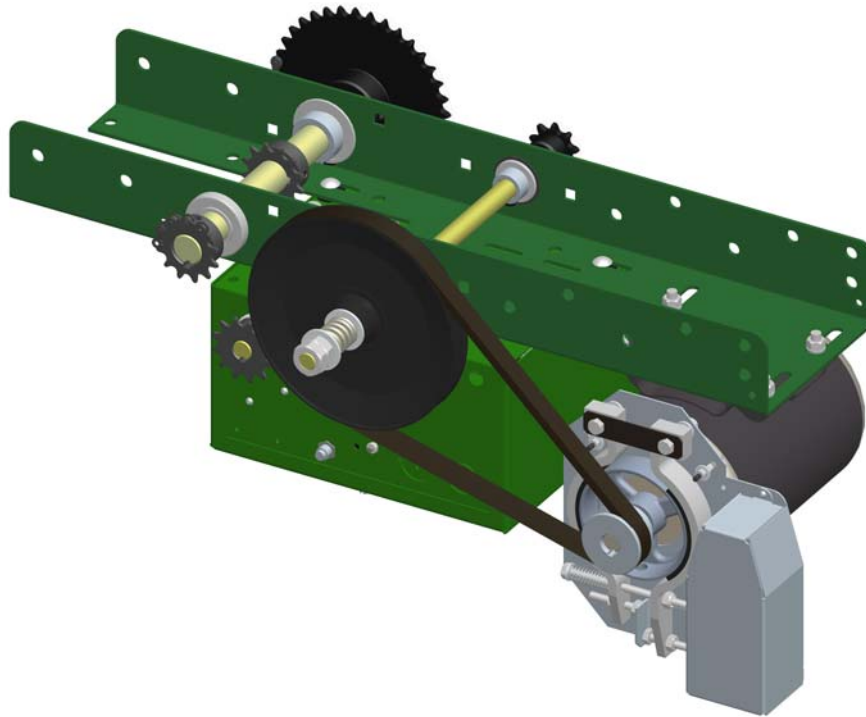


Installation & Instruction Manual



DRUM BRAKE (MTBH)

Note: Read this manual carefully before installing the brake and place this installation manual in an accessible place near the operator. For future reference record:

Model # _____

Date _____

Wiring Diagram # _____

Project No / Name _____

Door No. # _____



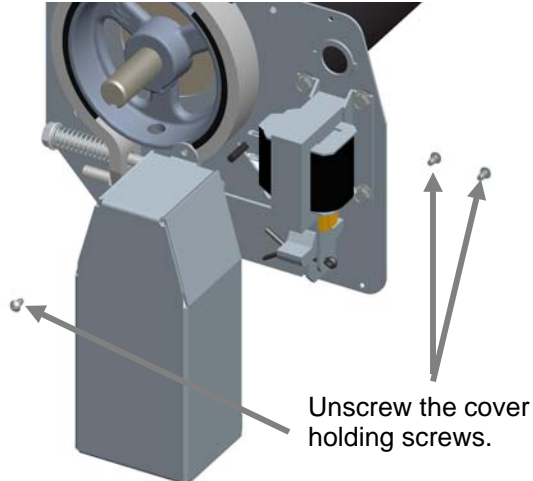
Installing a Drum Brake on a Trolley Type Operator



WARNING

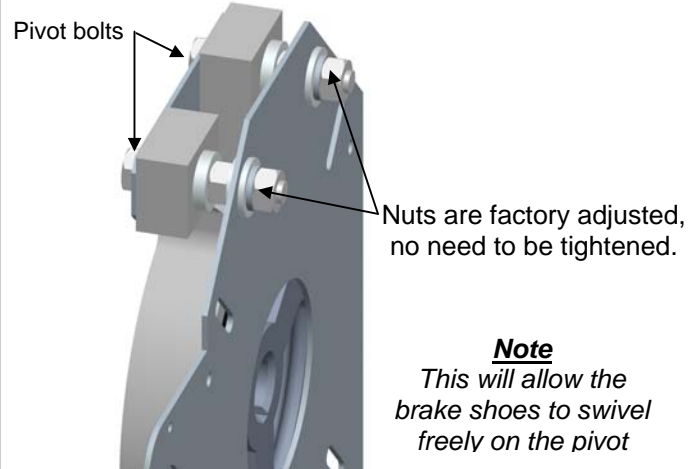
Before performing any changes to the operator, be sure that the main power is OFF

Step 1: Remove the solenoid cover.

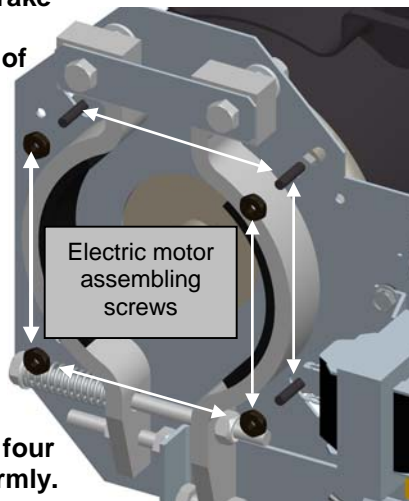


Important:

Shoe pivots are factory adjusted. **Do not touch.**



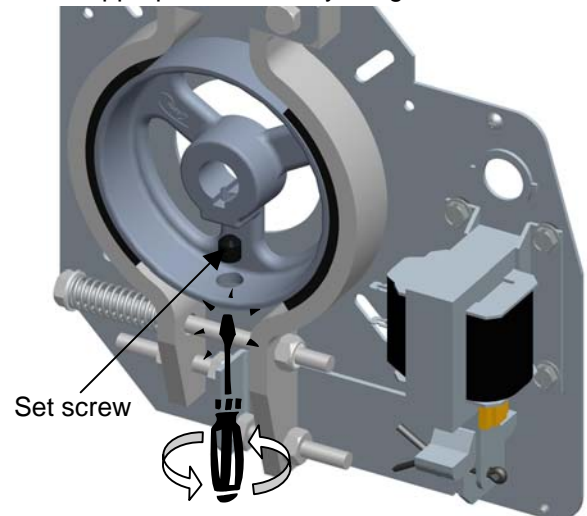
Step 2: Mount the brake plate on the four assembling screws of the electrical motor



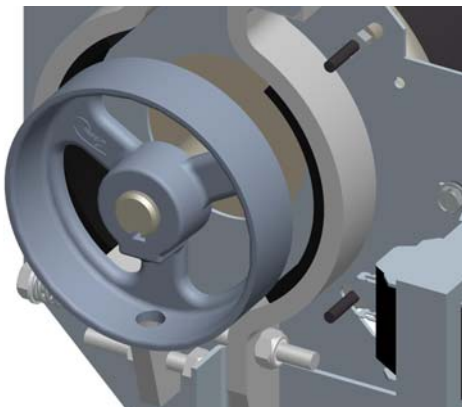
Step 3: Tighten the four holding bolts uniformly.

Step 5: Tighten the set screw.

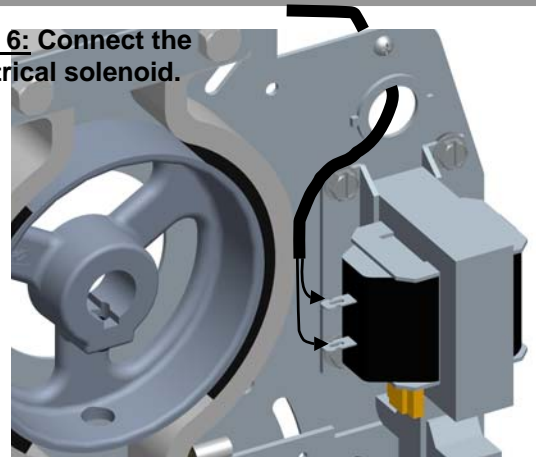
- Align the drum with the brake shoes.
- Use appropriate Allen key to tighten the set screw



Step 4: Mount the brake drum on the motor shaft.



Step 6: Connect the electrical solenoid.



Adjusting the Brake Shoes

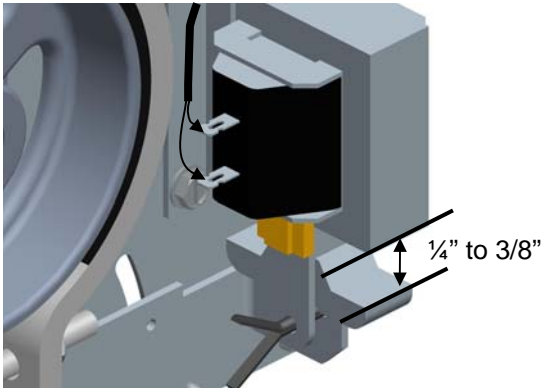


WARNING

Once the drum is mounted on the electrical motor shaft and the set screw is strongly tightened, use appropriate tools to adjust the brake shoes

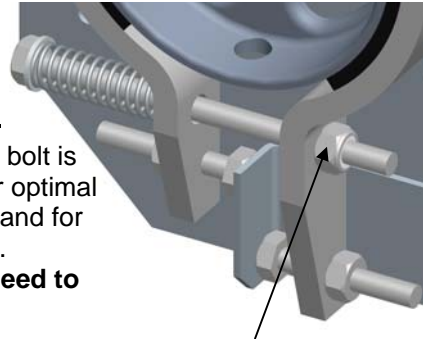
Step 7: Setting the proper clearance on the solenoid

The maximum clearance between the plunger and the solenoid body should be $\frac{1}{4}$ " to $\frac{3}{8}$ ".



Important:

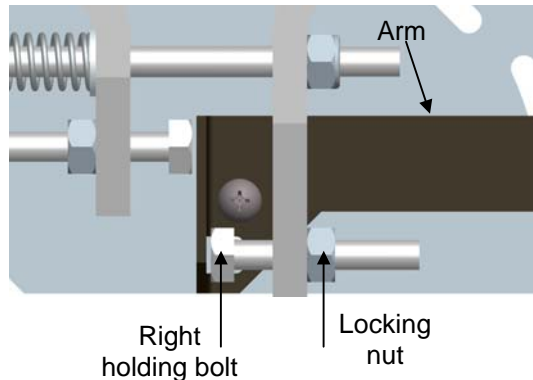
The pressure bolt is factory set for optimal performance and for maximum life. **It does not need to be adjusted.**



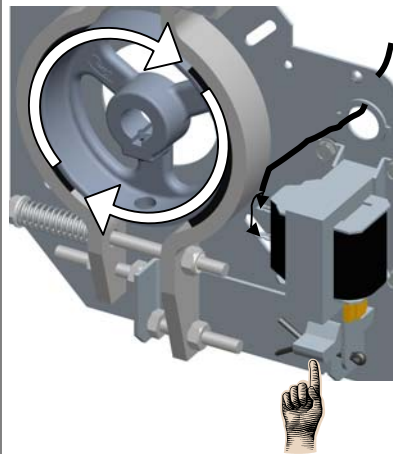
Pressure bolt.

Step 8: Adjustment of right holding bolt.

- Set the proper clearance on the solenoid and hold it in place with your hand.
- Turn the right holding bolt until the head touches the arm.
- Tighten the locking nut to prevent the holding bolt from losing the adjustment.



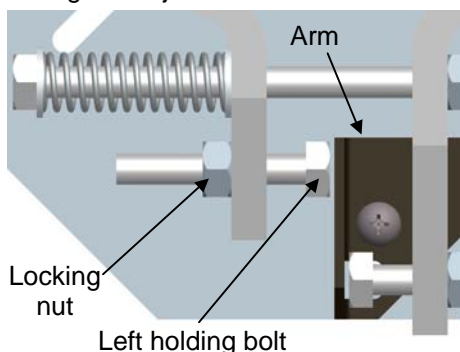
Step 10: Check brake adjustment.



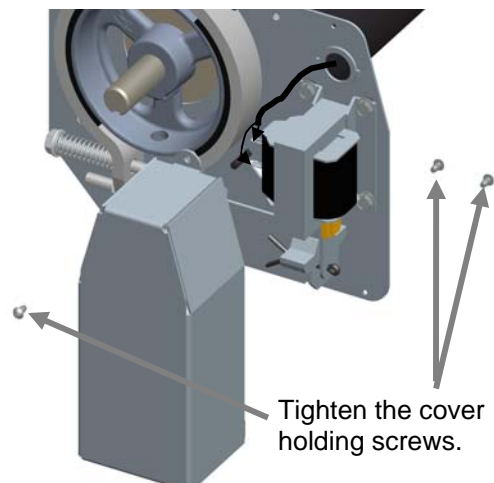
Manually push the plunger onto the solenoid body. Rotate the brake drum by hand in both directions and make sure that the drum is running freely.

Step 9: Adjustment of left holding bolt.

- Maintain the proper clearance on the solenoid (as on **Step 7**)
- Turn the left holding bolt until it touches the arm.
- Tighten the locking nut to prevent the bolt from losing the adjustment.



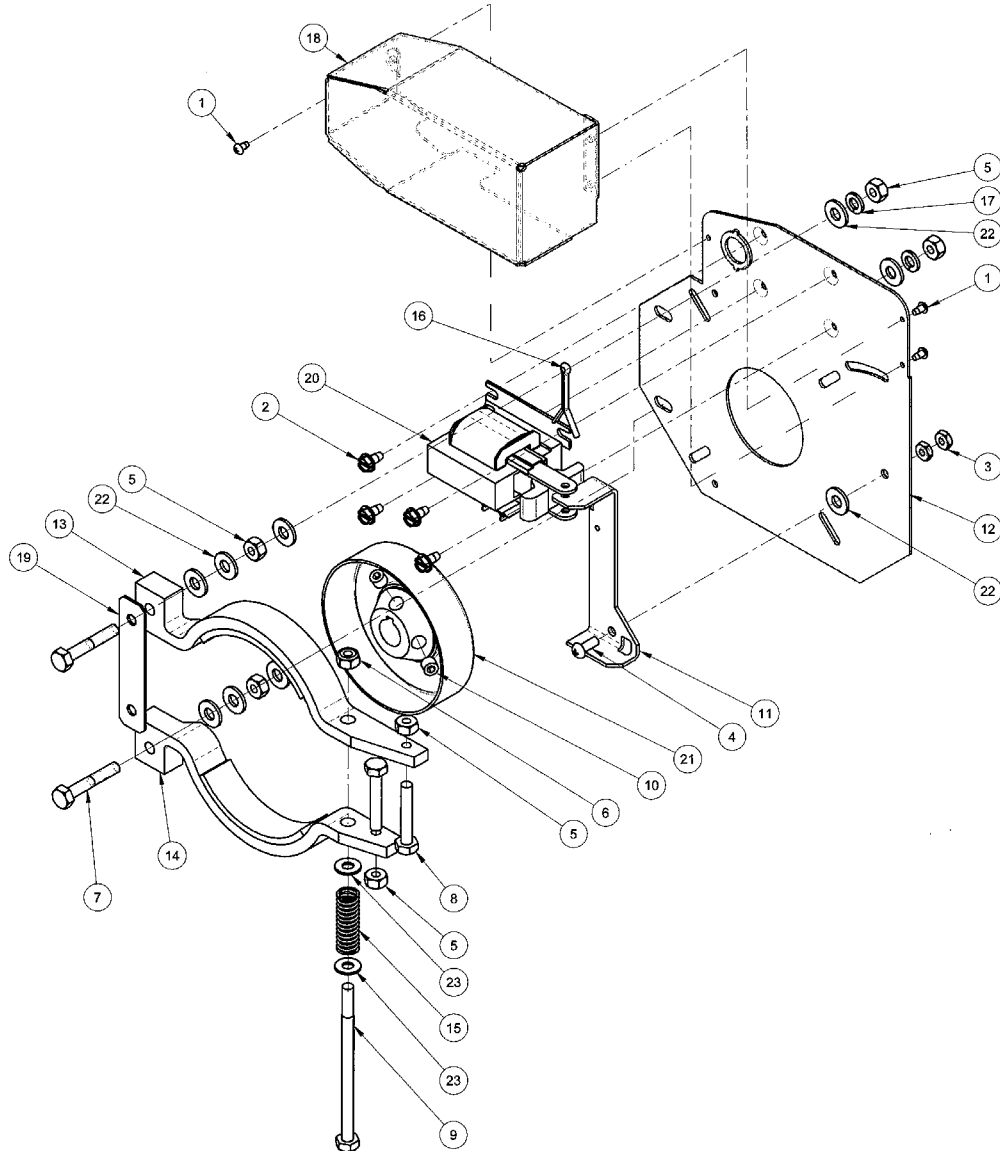
Step 11: Replace the solenoid cover




DRUM BRAKE EXPLODED VIEW

PART NUMBER	PART DESCRIPTION	# SOLENOID
BRAKE014A	DRUM BRAKE KIT 115V/1PH	SOLENOID001
BRAKE014B	DRUM BRAKE KIT 230V/1PH - 208V/3PH	SOLENOID002
BRAKE014C	DRUM BRAKE KIT 460V/3PH	SOLENOID003
BRAKE014D	DRUM BRAKE KIT 575V/3PH	SOLENOID004
MOD113	DRUM BRAKE OPTION	SOLENOID001 SOLENOID002 SOLENOID003 OR SOLENOID004

No	Qty	DESCRIPTION	# MANARAS	REV
1	3	6-32 X 3/8 TYPE F S-TAP. SCREW	SCREW094	
2	4	10-24 X 3/8 TYPE F S-TAP. SCREW	SCREW022	
3	2	10-32 HEX NUT ZP	NUT035	
4	1	10-32 X 1/2 MACHINE SCREW	SCREW054	
5	6	1/4-20 HEX NUT ZP	NUT006	
6	1	1/4-20 HEX NYLON LOCK NUT ZP	NUT020	
7	2	1/4-20 X 1-1/2 HEX BOLT	BOLT068	
8	2	1/4-20 X 1-1/2 HEX BOLT	BOLT010	
9	1	1/4-20 X 4 HEX BOLT	BOLT016	
10	2	5/16-18 X 5/16 SET SCREW	SCREW003	
11	1	BRAKE LEVER (DRUM BRAKE)	LEVER085	
12	1	BRAKE PLATE (DRUM BRAKE)	PLATE088	1
13	1	BRAKE SHOE LONG	SHOE022	
14	1	BRAKE SHOE SHORT	SHOE021	
15	1	BRAKE SPRING	SPRING002	
16	1	COTTER PIN 1/8 X 1-1/2	PIN001	
17	2	HELICAL SPRING LOCK WASHER 1/4 ZP	WASHER028	
18	1	PLATED SOLENOID COVER	COVER048	5
19	1	SHOE SPREADER BRACKET	BRACKET226	0
20	1	SOLENOID	SEE TABLE	
21	1	STEEL BRAKE DRUM 5/8 FLAT TRACK	DRUM008	0
22	6	TYPE A PLAIN WASHER 1/4 N ZP	WASHER004	
23	2	TYPE A PLAIN WASHER 3/16 ZP	WASHER003	



PART DESCRIPTION	
DRUM BRAKE	
PART NUMBER	MANARAS-OPERA
BRAKE014X - MOD113	136 ONEIDA DRIVE
DRAWN DATE:	POINTE-CLAIRE, QC, H9R 1A8
2001-07-16	TEL: 1-800-361-2260
LAST UPDATE:	FAX: 1-888-626-0606
2009-09-01	INITIAL
	LFM


 DRAWN BY: L.F. MARCEAU
 SHEET: 1 of 1

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