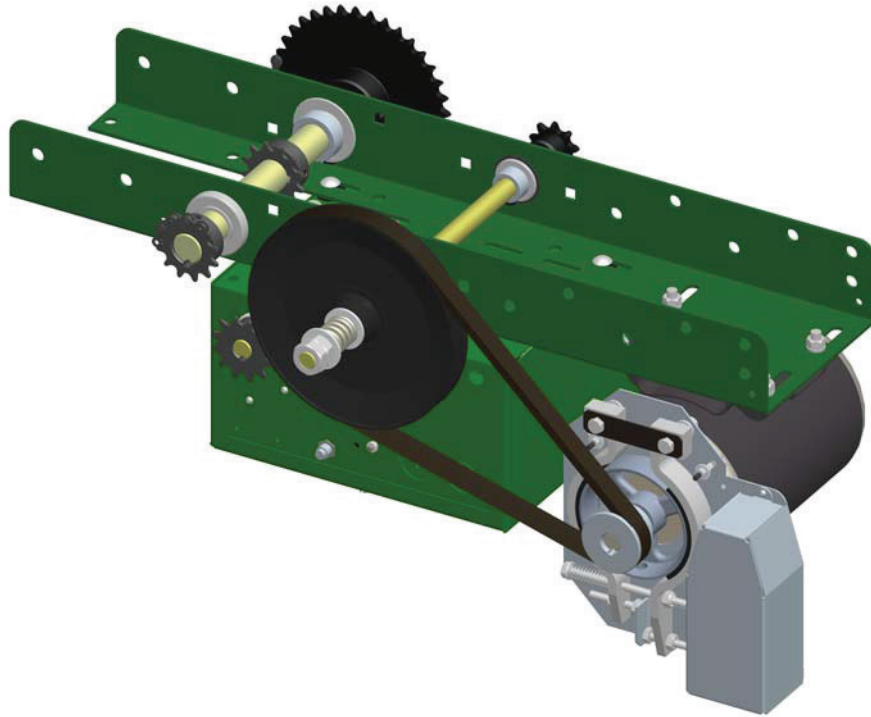


# Installation & Instruction Manual



## 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. # \_\_\_\_\_



For more information, please visit [www.devancocanada.com](http://www.devancocanada.com) or call toll free at 855-931-3334

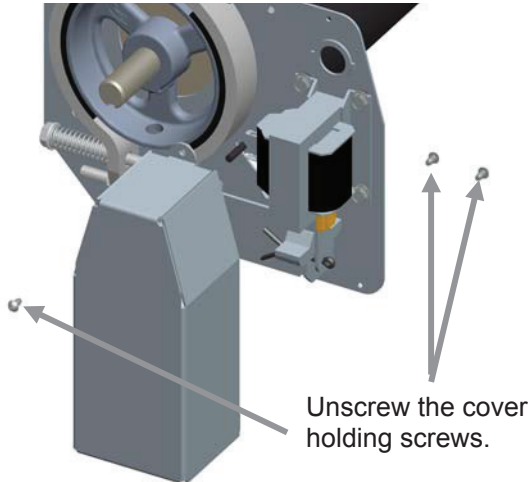
## Installing a Drum Brake on a Trolley Type Operator



### **WARNING**

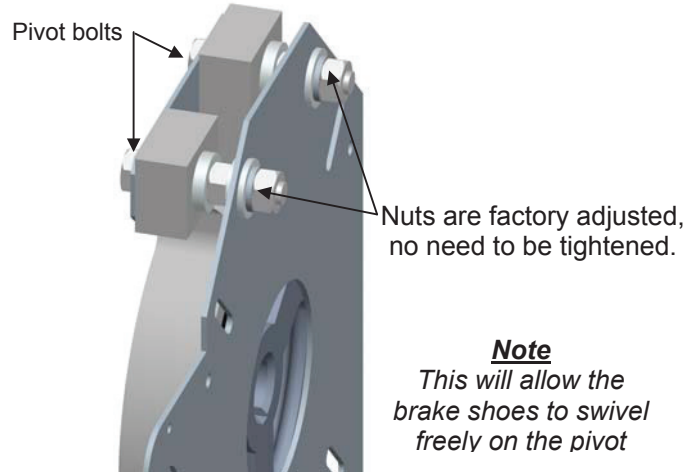
Before performing any changes to the operator, be sure that the main power is OFF

#### **Step 1: Remove the solenoid cover.**

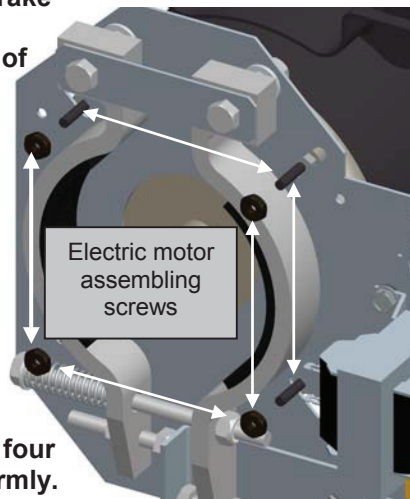


#### **Important:**

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



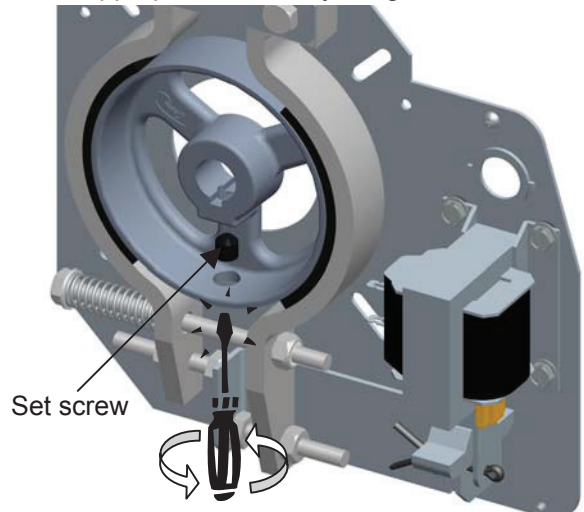
#### **Step 2: Mount the brake plate on the four assembling screws of the electrical motor**



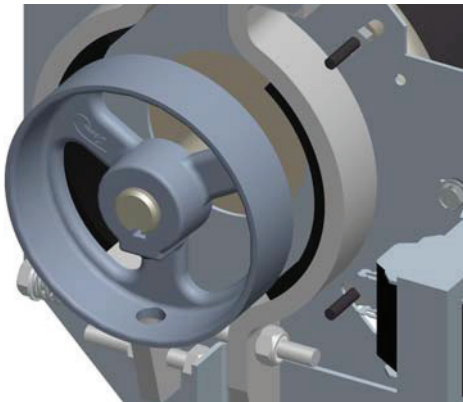
#### **Step 3: Tighten the four holding bolts uniformly.**

#### **Step 5: Tighten the set screw.**

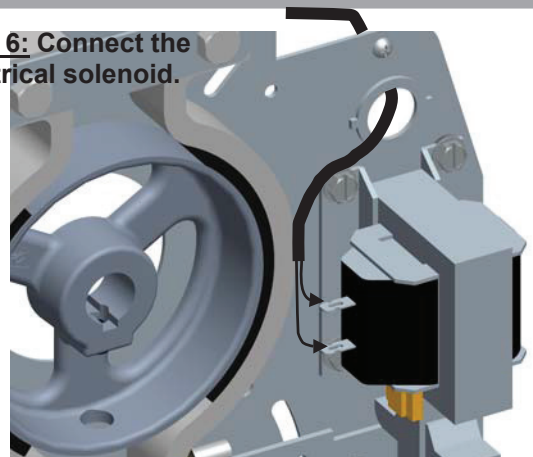
- Align the drum with the brake shoes.
- Use appropriate Allen key to tighten the set screw



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



#### **Step 6: Connect the electrical solenoid.**



## Adjusting the Brake Shoes

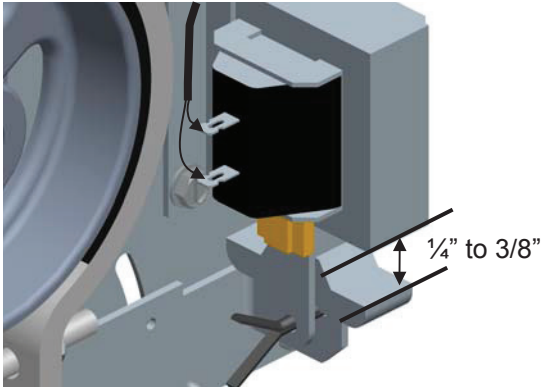


### WARNING

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

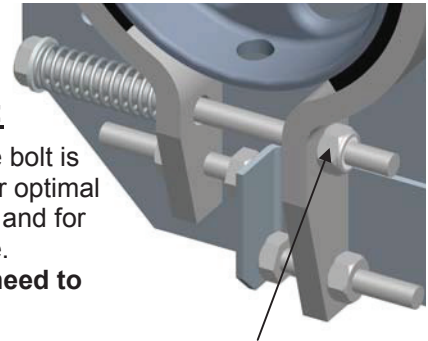
The maximum clearance between the plunger and the solenoid body should be  $\frac{1}{4}$ " to  $\frac{3}{8}$ ".



#### Important:

The pressure bolt is factory set for optimal performance and for maximum life.

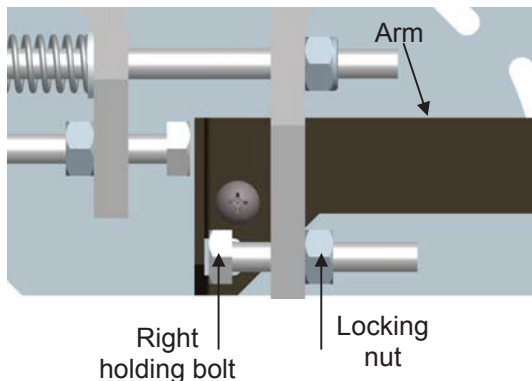
**It does not need to be adjusted.**



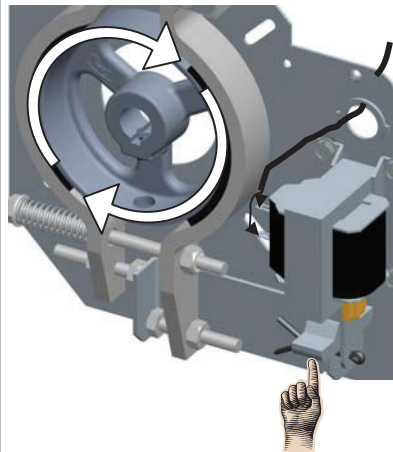
Pressure bolt.

#### 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.



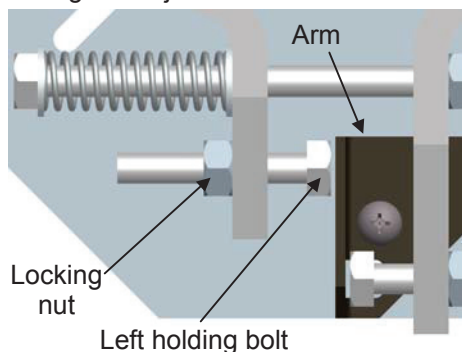
#### Step 10: Check brake adjustment.



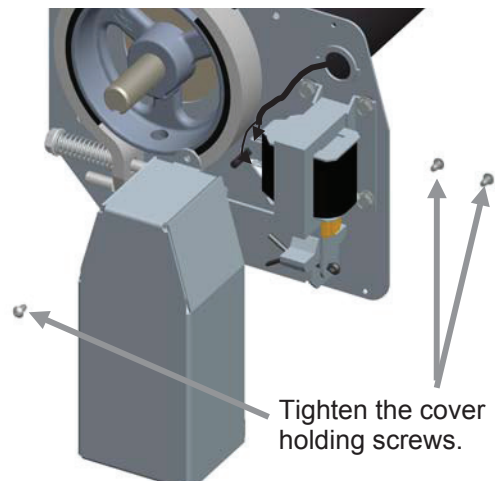
Manually push the plunger onto the solenoid body. Rotate the brake drum by hand in both directions and make sure that the drum is running freely.

#### 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.



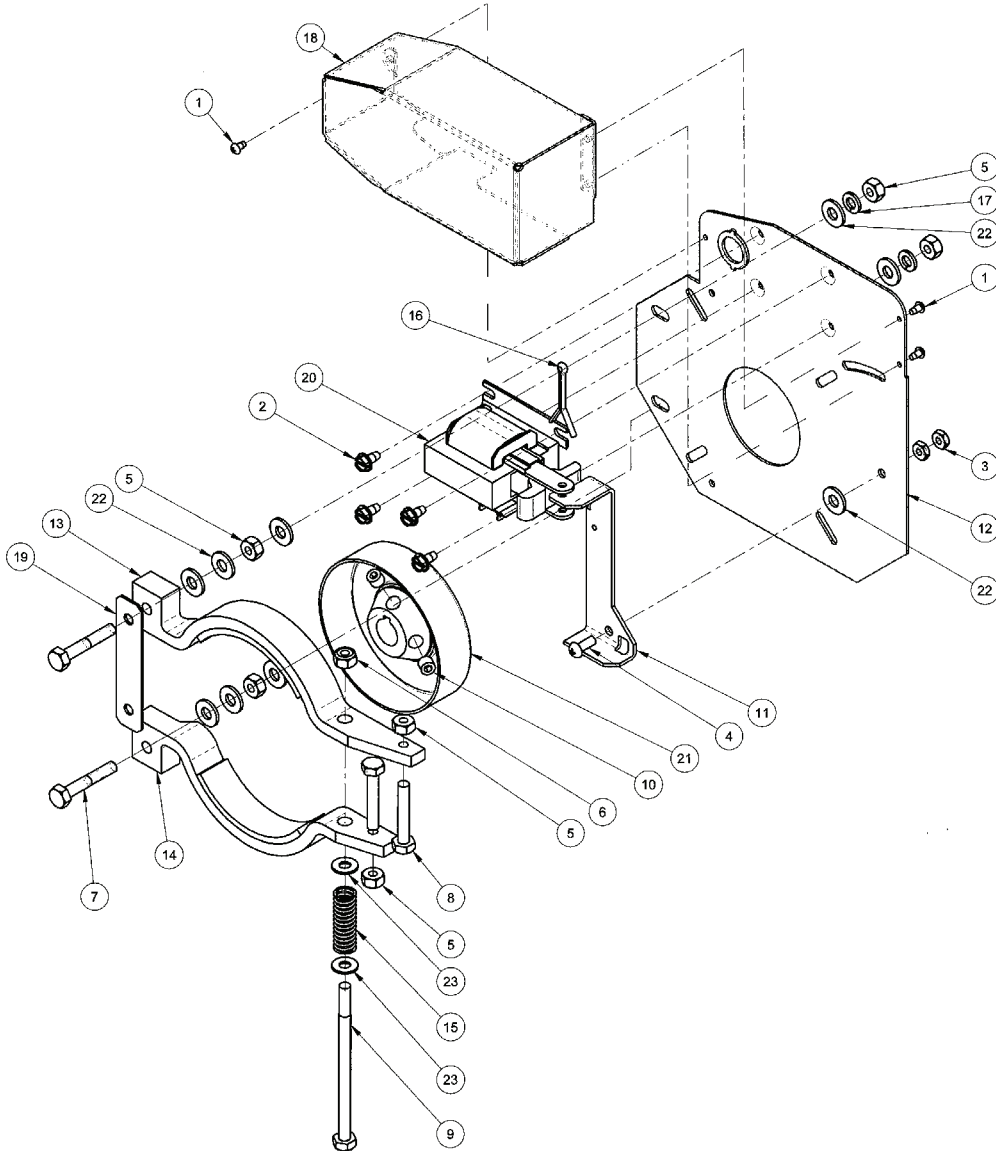
#### Step 11: Replace the solenoid cover



# 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	NUT036	
8	1	1/4-20 HEX NYLON LOCK NUT ZP	NUT035	
7	2	1/4-20 X 1-1/2 HEX BOLT	BOLT008	
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		
<b>DRUM BRAKE</b>		
PART NUMBER	MANARAS-OPERA	DRAWN BY: L.F. MARCEAU SHEET: 1 of 1
BRAKE014X - MOD113	138 ONEIDA DRIVE	
DRAWN DATE:	POINTE-CLAIRE, QC, H9R 1A8	
2001-07-15	TEL: 1-800-361-2260	
LAST UPDATE:	FAX: 1-888-626-0606	
2009-09-01	INITIAL LFM	

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- ✓ MODEL NUMBER