

# GT 710/8710 Swing Doors Low Energy Quick Set-Up and Parts Guide P/N 15-12499-003 Rev 12-19-14

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Associated Manuals Part Numbers:

Low Energy Swing Door Systems 710/8710 P/N 15-10683 Magnum IV Control Wiring and Adjustment Manual; P/N 15-10682 NABCO Price Book P/N 16-9244-30 (for Sensors, Switches, and Accessories)

## WARNING

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

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#### **SECTION 1: INSTALL THE HEADER**

#### 1.1 Inswing Doors

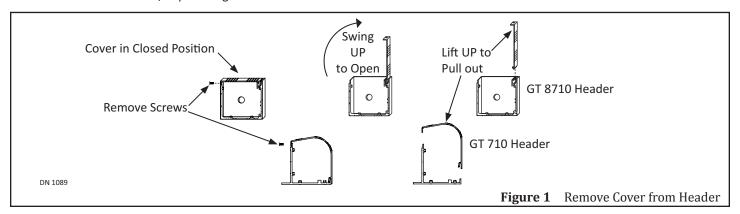
# FOR OUTSWING UNITS SKIP TO SUBSECTION 1.2

- 1. Open the Swing door 90 degrees.
- 2. Measure between the wall and the outside face of the Swing Door.
  - a. There must be a 2 inch minimum gap.
  - b. If there is less than a 2 inch gap, please call Customer Service at (877) 622-2694.

#### 1.2 Prepare the Header

Note: It may be necessary to remove the Motor/Operator from the Header to reduce weight, while positioning the Header onto the Door Frame.

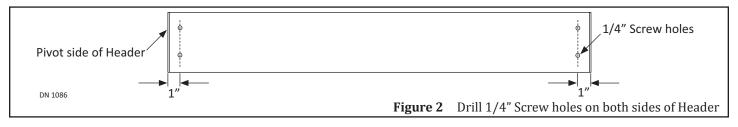
- 1. Place Header on flat surface with Side facing up. Protect header from scratches.
- 2. Remove two screws from underneath cover. Set Aside.
- 3. Remove Cover by:
  - ► GT710: Lifting it straight off of Header.
  - ▶ GT8710: Lifting it up from Header, and then pulling it out.
- 4. Remove boxes and/or parts bags from inside Header. Set aside.



#### 1.1.1 Drill Holes in Header (GT 8710)

#### FOR GT710 UNITS SKIP TO SUBSECTION 1.3

- 1. Go to the Strike side of Header. Drill one 7/8 inch hole through the Header to allow all wiring to be drawn inside.
  - a. The GT-8710 Header can be ordered with a Knockout hole located at either end of the Header. For details, please call Customer Service at 1-888-679-3319.
- 2. Go to the back wall inside Header on the Pivot side.
- 3. Measure 1 inch from the End Cap of Header towards the center. Mark a Vertical Line.
- 4. Measure at least 1/2 inch from the bottom of Header towards the top. Mark a Horizontal Line across the Vertical line. This is the center of the first screw hole. Drill 1/4 inch screw hole.
- 5. Mark (1) more Horizontal line across the Vertical line directly above the first screw hole. This is the center of the second screw hole. Drill 1/4 inch screw hole.
  - a. It may be necessary to install a Shim behind the Header if mounting the Header to a wall.
- 6. Go to the Strike side of Header. Repeat steps 3 thru 5.



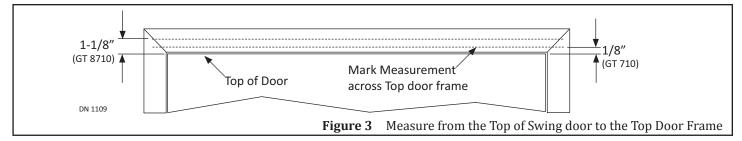
#### 1.3 Prepare the Door Frame

Note: The following instructions are for typical Metal Doors and Frame Profile. It is recommended to use lag bolts.

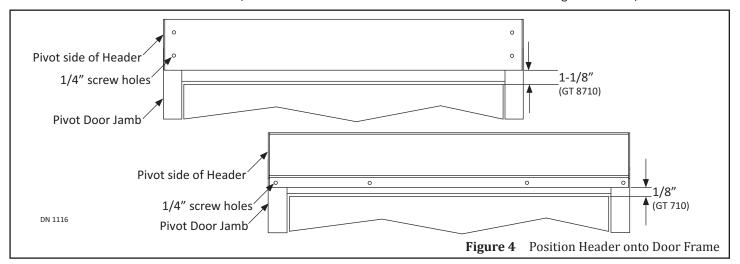
Note: If the Door Frame is not properly reinforced nor anchored to the building surface, and/or is hollow, reinforce the Door Frame with 1/4-20 blind rivnuts (not provided by NABCO).

Note: If the Door Frame is not Metal, ensure the Door Frame being used is of equal strength.

- 1. Go to the Pivot Side of Swing door.
- 2. Measure up from the Bottom edge of the Top door frame:
  - ▶ GT 710: 1/8 inch
  - ► GT 8710: 1-1/8 inch
- 3. Mark a Horizontal Line on the face of Top door frame, at both ends.



- 4. Lift the Header up against the Top door frame until the bottom edge of Header is butted up against the Horizontal Line, at both ends.
- 5. To ensure proper operation of the Swing Arm:
  - For a Door Jamb that is 1-3/4 inches wide, position the Pivot side of Header so it is flush to the outside edge of the Pivot Door Jamb.
  - ► For a Door Jamb that is wider than 1-3/4 inches, measure from the inner edge of the Pivot Door Jamb to the center. Mark a vertical line at the 1-3/4 inch measurement. The Pivot side of Header must butt against the 1-3/4 inch mark.



- 6. Ensure the Header is square and level.
- 7. Use the Header as a template to mark screw holes onto the face of the door frame.
- 8. Remove the Header. Set Aside.

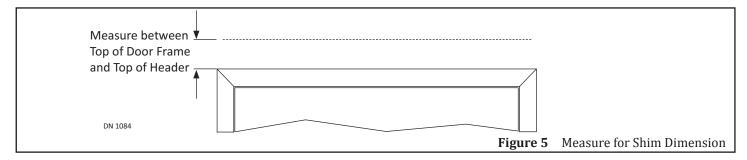
#### 1.4 Install the Shim (Only if deemed necessary)

# FOR UNITS NOT INSTALLING A SHIM SKIP TO SUBSECTION 1.5

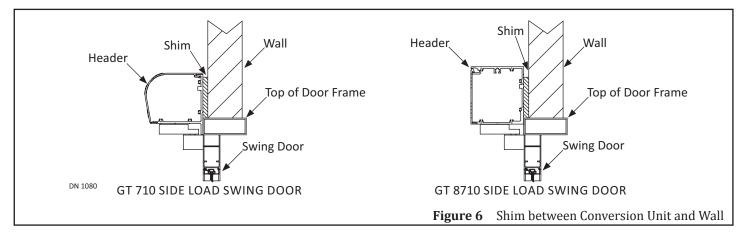
- 1. Butt the Header up against the Horizontal line, line up the screw holes and then ensure the Header is square and level.
- 2. Go to the top of Header. Mark a horizontal line along the top edge of Header onto the wall.
- 3. Measure the depth between the back side of the Header and the wall.
  - a. Write that measurement down and label it #1.

4. Measure the distance between the top of door frame and the horizontal line that was just drawn at the top of Header.

a. Write that measurement down and label it #2.

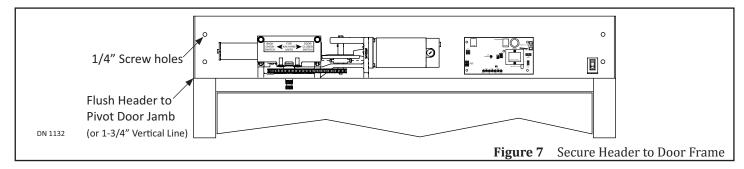


- 5. Obtain (1) Shim to be the same depth as measurement #1; no higher than measurement #2; and about the same width as the Header.
- 6. Secure the Shim to stud(s).
  - a. It is recommended to use Lag Bolts.

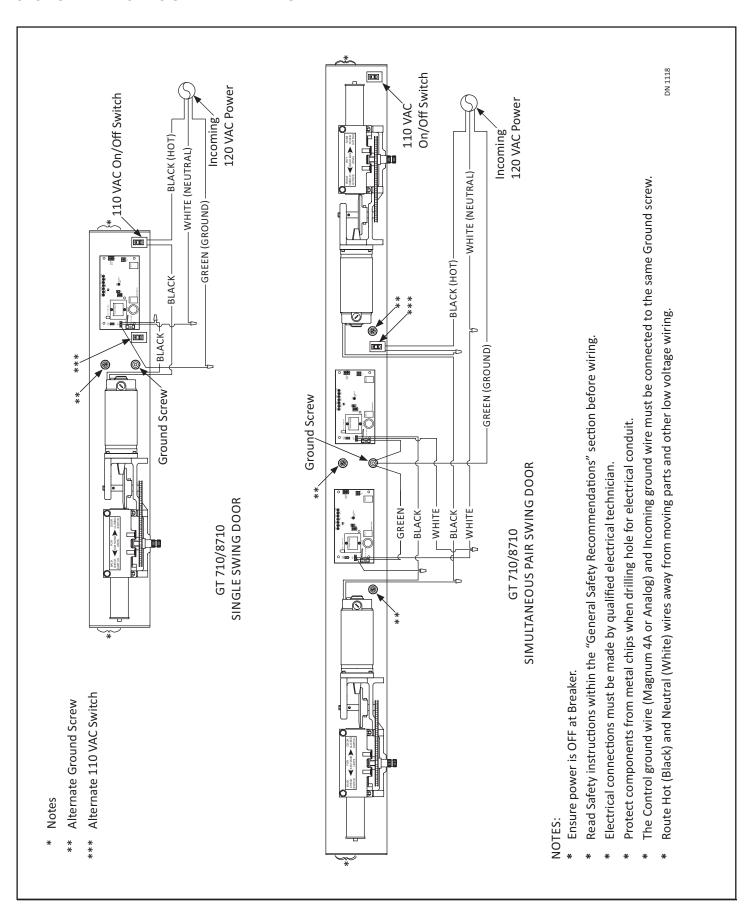


#### 1.5 Secure the Header to the Door Frame

- 1. Lift up the Header to insert Power Wiring through the 7/8 inch hole.
  - a. It is recommended to use a Conduit.
  - b. It is recommended to insert all other Wiring through a separate hole.
- 2. Line up the screw holes. Secure the Header to the Door Frame. It is recommended to use Lag Bolts.
  - a. For additional mounting on GT 8710 units: secure the Header to Studs located behind the Shim. It is recommended to use Lag Bolts.



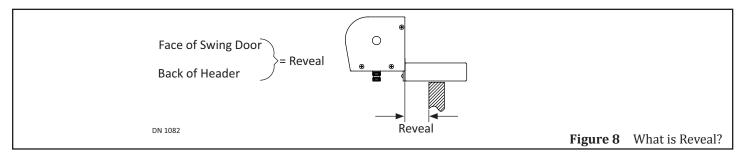
#### **SECTION 2: 110 VAC GENERAL WIRING**



#### SECTION 3: INSTALL THE FIRST HALF OF SWING ARM

#### 3.1 Outswing Arm

#### FOR INSWING ARMS SKIP TO SUBSECTION 3.2

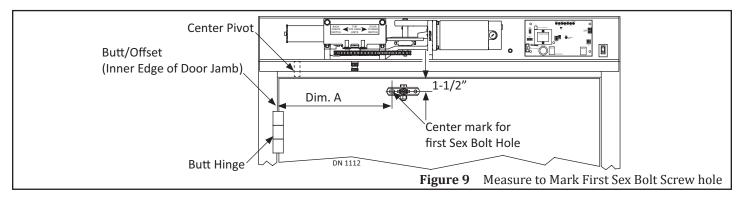


#### 3.1.1: Prep the Swing Door

**Table 1** Dimension "A" Arm Shoe Mounting Locations

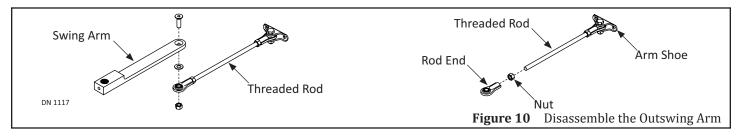
		Outswing	
Model	Pivot Type	With Fingerguard	No Fingerguard
GT 710 & 8710	Butt/Offset	N/A	16-15/16"
	Center Pivot	N/A	16-15/16"

- 1. Go to Table 1 to measure the distance from the inside edge of the Pivot Door Jamb, or the Center Pivot to the center of the first Sex Bolt hole (used to attach the Arm Shoe).
- 2. Mark a Vertical line on the face of the Swing door.
- 3. At the Vertical line, measure 1-1/2 inches from the top edge of the Swing door down to the center of the Swing Door.
- 4. Mark a Horizontal line to cross the Vertical line. This is the center of the first Sex Bolt hole.



#### 3.1.2: Prep the Outswing Arm Assembly

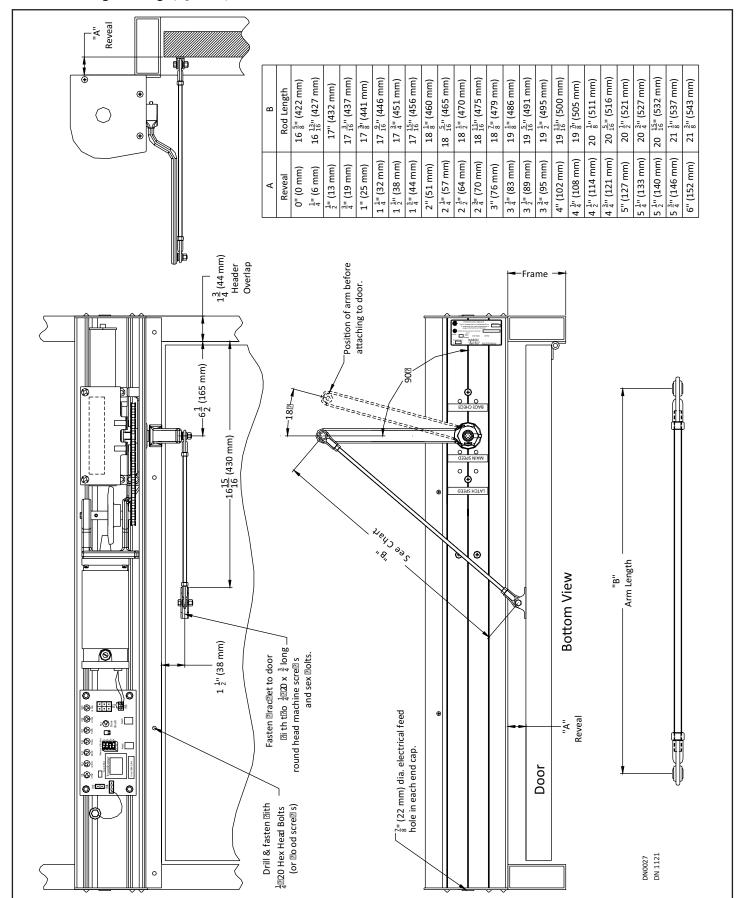
1. Remove the Swing Arm from the Threaded Rod. Set aside.



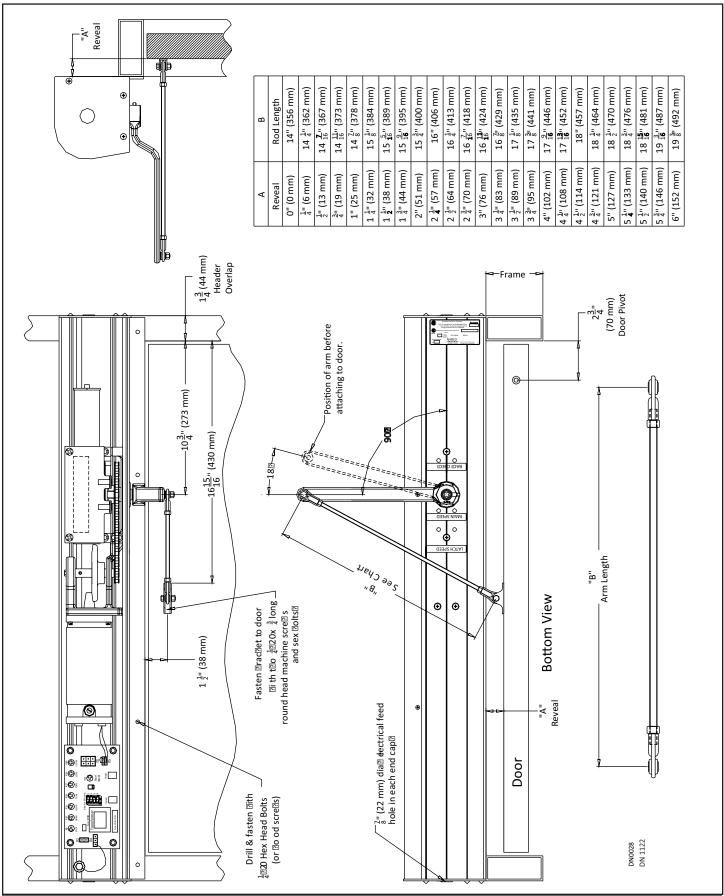
2. Go to Table 2 to locate the appropriate length measurement for the Threaded Arm.

Note: For Reveals that are 0 thru 6-1/2 inches, a 20 inch Threaded Rod must be purchased. For Reveals that are 6-3/4 inches and higher, a 30 inch Threaded Rod must be purchased.

#### 3.1.3: Outswing Butt Hinge (Right Hand)

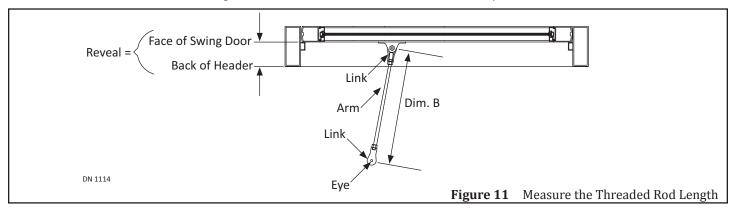


#### 3.1.4: Outswing Center Pivoted (Right Hand)

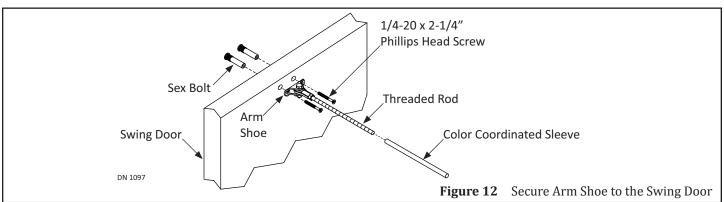


3. Measure the Threaded Rod between the center of each Eye, located on each Link, located at each end of the Rod. Please see Dim B in Figure 11.

- 4. Remove the Link that is not attached to the Arm Shoe, from the Threaded Rod.
- 5. Cut the Threaded Rod according to the measurement that was determined in Step 3.



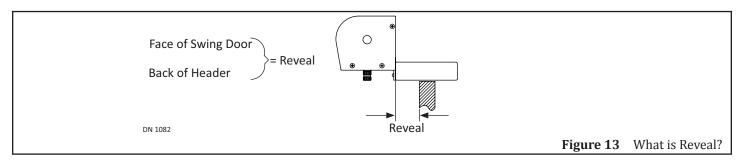
- 6. Obtain (1) color coordinated Plastic Tube from the Outswing Rod assembly.
- 7. Cut the Plastic Tube to the same length as the exposed Rod (between the Links and Nuts).
- 8. Slide the Plastic Tube over the Threaded Rod.
- 9. Replace the Rod Link back onto the Threaded Rod.
- 10. Tighten the Nut against the Link to prevent the Rod from screwing In or Out.



#### 3.1.5: Secure the Arm Shoe to the Swing Door

- 1. Butt the Arm Shoe against the Swing door. Align the first Sex Bolt hole to the measured Mark.
- 2. Ensure the Arm Shoe is square and level.
- 3. Use the Arm Shoe as a Template to mark the second Sex Bolt hole. Set aside.
- 4. Drill (2) 3/8 inch bolt holes all the way through the Swing door.
- 5. Go to the back of the Swing door. Insert each Sex Bolt into the drilled holes.
- 6. Go to the front of the Swing door. Secure the Arm Shoe to the Swing Door with (2) 1/4-20 x 2-1/4" Screws.

#### 3.2 Inswing Arm



#### 3.2.1: Prep the Swing Door

Note: Ensure there is a 2 inch gap between the wall and the outside face of the Swing door in the fully opened position (90 degrees).

- 1. Go Table 3 or Table 4 to measure the distance from the inside edge of the Pivot Door Jamb, or the Center Pivot to the center of the first Sex Bolt hole (used to attach the Track).
- 2. Mark a Vertical line reflecting the measured distance on the face of the Swing door.

**Table 2** Small Track Mounting Locations (12-1/4 inches)

Reveal	Butt Hinge	Dim A Center Pivot w/Finger Guard	Center Pivot no Finger Guard
0	7-5/8"	8-3/16"	7-3/16"
1/4"	7-3/4"	8-3/8"	7-3/8"
1/2"	7-15/16"	8-9/16"	7-9/16"
3/4"	8-1/8"	8-3/4"	7-3/4"
1"	8-5/16"	8-15/16"	7-15/16"
1-1/4"	8-1/2"	9-1/8"	8-1/8"
1-1/2'	8-11/16"	9-5/16"	8-5/16"
1-3/4"	8-7/8"	9-1/2"	8-1/2"
2"	9-1/16"	9-3/4"	8-3/4"
2-1/4"	9-1/4"	9-15/16"	8-15/16"
2-1/2"	9-1/2"	10-1/8"	9-1/8"
2-3/4"	9-11/16"	10-3/8"	9-3/8"
3"	13-1/8"	10-9/16"	9-9/16"
3-1/4"	13-3/8"	14-1/16"	13-1/16"
3-1/2"	13-9/16"	14-1/4"	13-1/4"
3-3/4"	13-3/4"	14-1/2"	13-1/2"

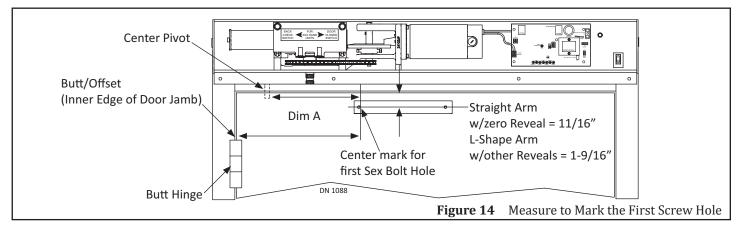
Reveal	Butt Hinge	Dim A Center Pivot w/Finger Guard	Center Pivot no Finger Guard	
4"	14"	14-11/16"	13-11/16"	
4-1/4"	14-3/16"	14 -3/4"	13-3/4"	
4-1/2"	14-7/16"	14-3/4"	13-3/4"	
4-3/4"		14-3/4"	13-3/4"	
5"		14-3/4"	13-3/4"	
5-1/4"				
5-1/2"	14-1/2"			
5-3/4"		14 12 /16" 12 12	14 12 /16" 12	12 12 /17"
6"		14-13/16"	13-13/16"	
6-1/4"				
6-1/2"	18-1/2"			
6-3/4"	18-9/16"	18-7/8"	17-7/8"	
7"	18-9/16"	18-7/8"	17-7/8"	
7-1/4"	18-5/8"	18-15/16"	17-15/16"	
7-1/2"	18-5/8"	N/A	N/A	

 Table 3
 Large Track Mounting Locations (21 inches)

	Dim A		
Reveal	Butt Hinge	Center Pivot w/Finger Guard	Center Pivot no Finger Guard
7-1/2"	N/A	14-1/2"	13-1/2"
7-3/4"		14-9/16"	13-9/16"
8"		14-9/16"	13-9/16"
8-1/4"		14-5/8"	13-5/8"
8-1/2"		14-5/8"	13-5/8"
8-3/4"	14 1 /4"	14-5/8"	13-5/8"
9"	14-1/4"	14-5/8"	13-5/8"
9-1/4"		14-5/8"	13-5/8"
9-1/2"		14-5/8"	13-5/8"
9-3/4"		14-5/8"	13-5/8"
10"		14-9/16"	13-9/16"
10-1/4"	14-3/16"	14-9/16"	13-9/16"

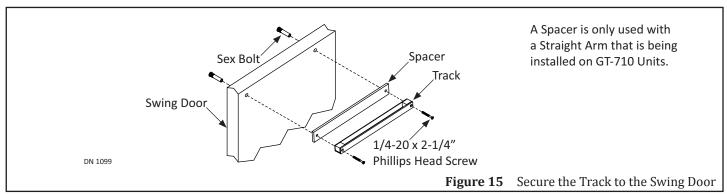
Reveal	Butt Hinge	Dim A Center Pivot w/Finger Guard	Center Pivot no Finger Guard
10-1/2"	19-1/4"	14-9/16"	13-9/16"
10-3/4"	19-1/4"	19-5/8"	18-5/8"
11"	19-1/4"		
11-1/4"	18-9/16"		
11-1/2"			
11-3/4"			
12"		19-11/16"	18-11/16"
12-1/4"	19-5/16"		
12-1/2"			
12-3/4"			
13"			

- 3. Go to the top edge of the Swing Door. Measure:
  - ▶ 0 inch Reveal (Straight Arm):
    - 11/16 inch from the top edge of the Swing Door down to the center of the Swing Door.
  - ► Reveals greater than 0 inch (L-Shape Arm):
    - 1-9/16 inch from the top edge of the Swing Door down to the center of the Swing Door.
  - ▶ New dimension not shown (L-Shape Arm):
    - Reveal + 8-7/8 inch = New dimension
- 4. Mark a Horizontal line to cross the Vertical line. This is the center of the first Sex Bolt hole.



#### 3.2.2: Secure the Track to the Swing Door

- 1. Butt the Track against the Swing door by aligning the first Sex Bolt hole with the measured Mark.
- Ensure the Track is square and level.
- 3. Use the Track as a Template to mark the second Sex Bolt hole. Set aside.
- 4. Drill (2) 3/8 inch bolt holes all the way through the Swing door.
- 5. Go to the back of the Swing door. Insert each Sex Bolt into the drilled holes.
  - a. If the wall/frame is not straight, vertical, plum etc., install (1) Spacer (21-0902) behind the Track only if Reveal has a variance of zero to 1/4 inch and a Straight Arm is being installed.
  - b. A Spacer is used to prevent the Swing Arm from hitting the lip of the GT-710 Header only (the GT-8710 Header does not have a lip).
  - c. If a Spacer can not be obtained, a couple of washers can be used.
- 6. Go to the front of the Swing door.
- 7. Butt the Track against the Swing door by aligning the Sex Bolt holes.
  - a. Install (1) Spacer behind the Track for Swing doors with "0" Reveal (If required).
- 8. Secure the Track to the Swing Door with (2) 1/4-20 x 2-1/4" Screw.



#### SECTION 4: INSTALL THE SECOND HALF OF SWING ARM

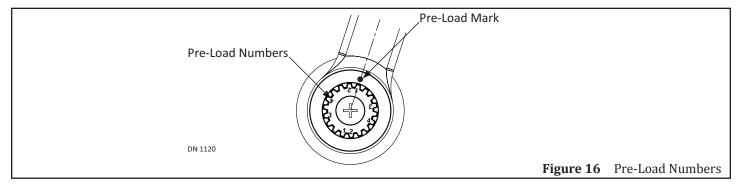
#### 4.1 Set Pre-Load

WARNING CAUTION

Proper Preload is critical for the Control/Operator to open/close the Swing Door correctly.

Power must be turned OFF during the Swing Arm installation.

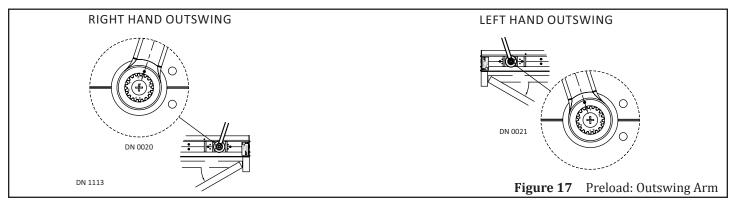
- 1. Locate pre-load numbers 1-4 on the Bottom of the Operator Spindle.
  - a. Pre-load numbers 1-4 mark the correct installation position for pre-load.

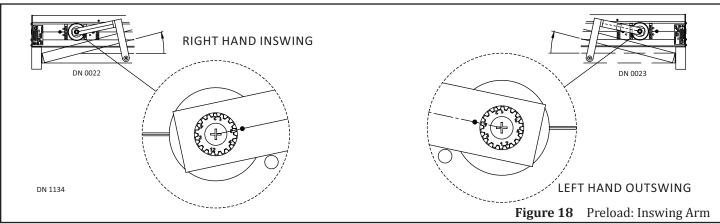


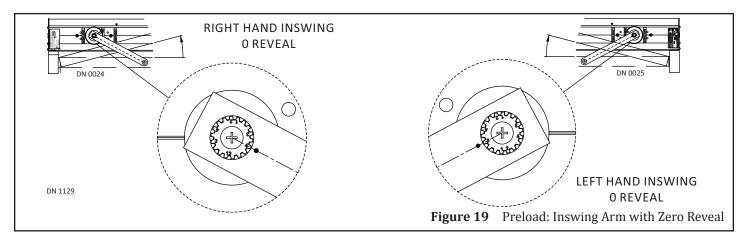
- 2. Obtain the Swing Arm.
- 3. Slide the Swing Arm onto the Operator Spindle by aligning the appropriate pre-load number to the pre-load mark on the underside of Swing Arm:

RH Outswing LH Outswing RH Inswing LH Inswing RH Inswing-0 Reveal LH Inswing-0 Reveal 1 2 3 4 4 3

4. Please see Figure 17, or Figure 18, or Figure 19.





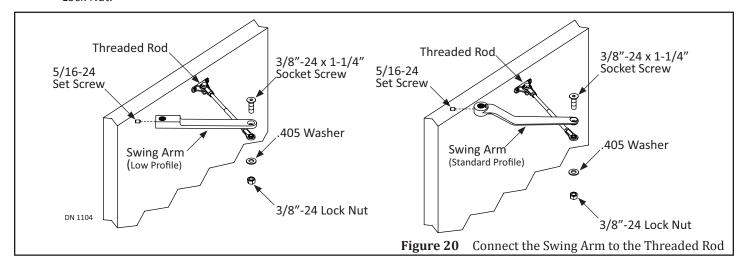


- 5. Secure the Swing Arm to the Operator Spindle with (1) Set Screw. Tighten but do not overtighten.
  - a. Ensure the Set Screw is seated correctly within the groove on the Operator Spindle.

#### 4.2 Secure the Swing Arm to the Swing Door

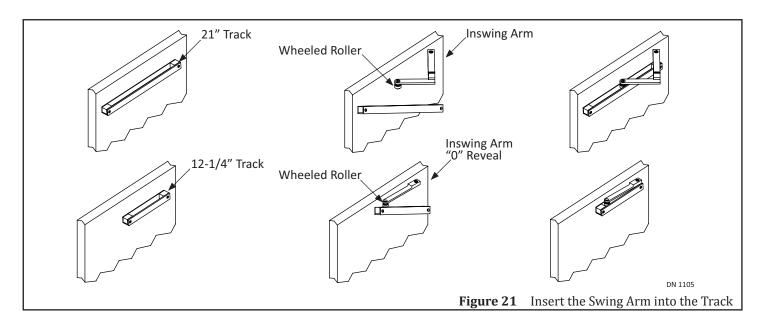
#### 4.2.1 Outswing Arm

- 1. Align the screw hole at the end of Swing Arm to the Rod End screw hole.
- 2. Pull the Swing Arm towards the Rod to connect.
- 3. Secure the Swing Arm to the Threaded Rod with (1) 3/8"-24 x 1-1/4" Socket Screw, (1) .405 Washer, and (1) 3/8"-24 Lock Nut.



#### 4.2.2 Inswing Arm

- 1. Remove the first 1/4-20 x 2-1/4" Screw (closest to the Pivot Door Jamb) that is used to secure the Track to the Swing door.
  - a. That side of the Track will hang down.
- 2. Close the Swing door to allow the Wheeled Roller (located at the end of the Swing Arm) to butt against the Swing door.
- 3. Pull the Swing Arm to the Swing door, then raise the Track.
- 4. Secure the Track to the Swing door with (1) 1/4-20 x 2-1/4" Screw.



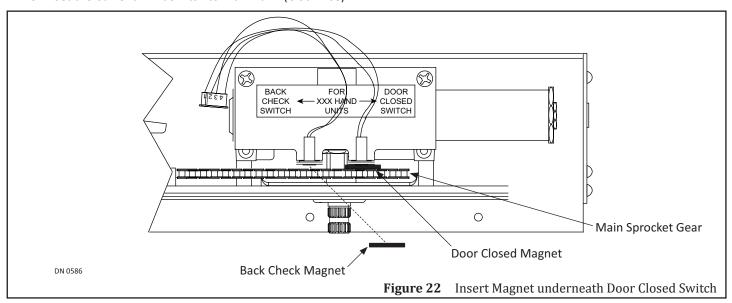
#### **SECTION 5: INSTALL THE MAGNETS**

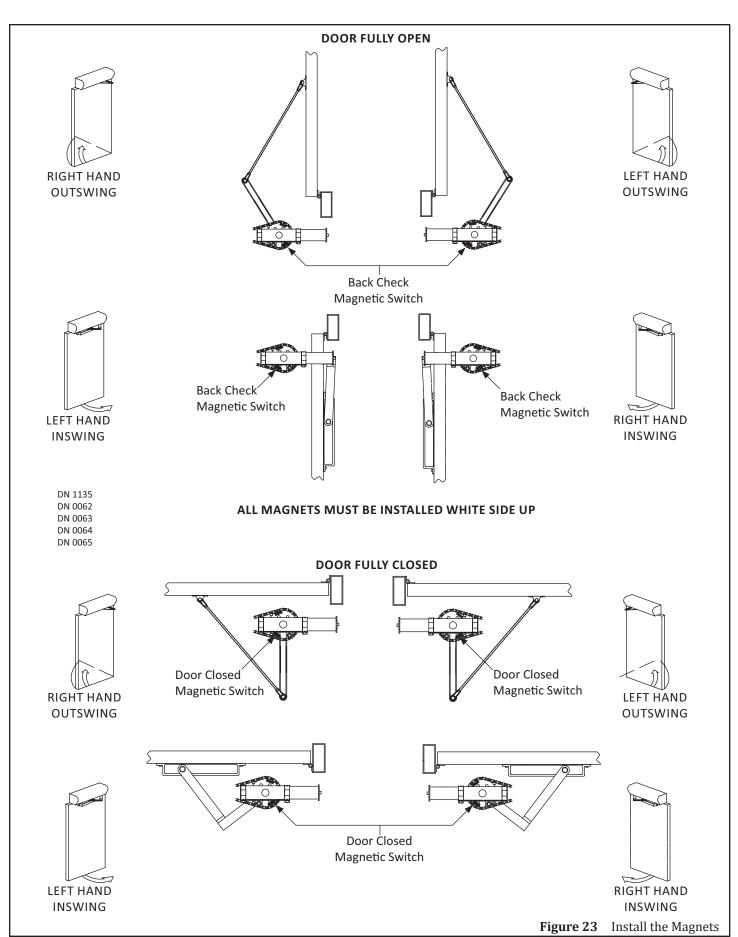
# **CAUTION** Power must be turned OFF while installing the Magnets.

Note: Magnetic Reed Switches are reversed according to Handing of door (LH vs RH).

When Magnets are correctly set, the Green LED on the Magnum 4A Control will be:

- ▶ OFF when the door is closed.
- ► Fast Flashing when opening.
- ▶ On Solid at Back Check.
- Slow flashing when closing.
- ▶ OFF again at Latch Check
- 1. Go to the Magnum 4A Control. Disconnect Power.
- 2. Unplug the J4 Connector.
- 3. Set the Current Limit Switch to Maximum. (Clockwise)





#### 5.1 Insert the Back Check Magnet

When the Magnet is correctly set, the Green LED on the Magnum 4A Control will be:

- ON steady when the Swing door is in the fully Open position after an activation.
- 1. Obtain (1) 1/4 inch square x 1 inch long Magnet.
- 2. Manually open the Swing door to the Fully Open position (90 degrees).
- 3. Place the Magnet (White side up) directly underneath the Back Check Magnetic Switch.

#### 5.2 Insert The Latch Check Magnet

When the Magnet is correctly set, the Green LED on the Magnum 4A Control will be:

- ▶ OFF when the Swing door is in the fully Closed position.
- 1. Obtain (1) 1/4 inch square x 1 inch long Magnet.
- 2. Manually Close the Swing door to the Fully Closed position (0 degrees).
- 3. Place the Magnet (White side up) directly underneath the Door Closed Magnetic Switch.

#### 5.2.1 Test the Magnets

Note: If the Back Check magnet is installed with the Swing door fully open (90°), opening speed does not need to be adjusted.

- 1. Turn Power ON.
- 2. Electronically close the Swing door.
  - a. As the Swing door closes to the 15 degree mark, the Door Closed Magnet starts to rotate underneath the "Door Closed" Magnetic Reed Switch. The Swing door will start to slow down.
  - b. At the 0 degree mark, the Latch Check Magnet is fully underneath the Door Closed Magnetic Switch.
- 3. Relocate the Magnet if adjustment is deemed necessary.

#### SECTION 6: INSTALL THE ARM STOP

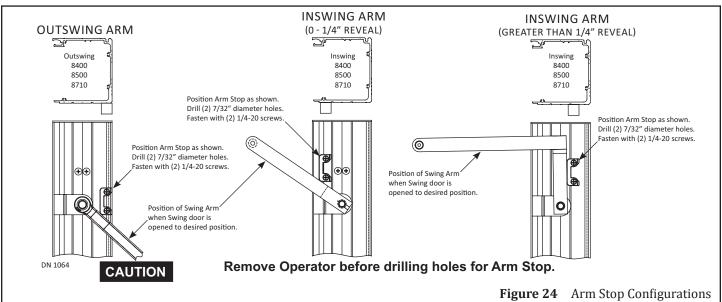
**CAUTION** 

Power must be turned OFF while installing the Arm Stop.

CAUTION

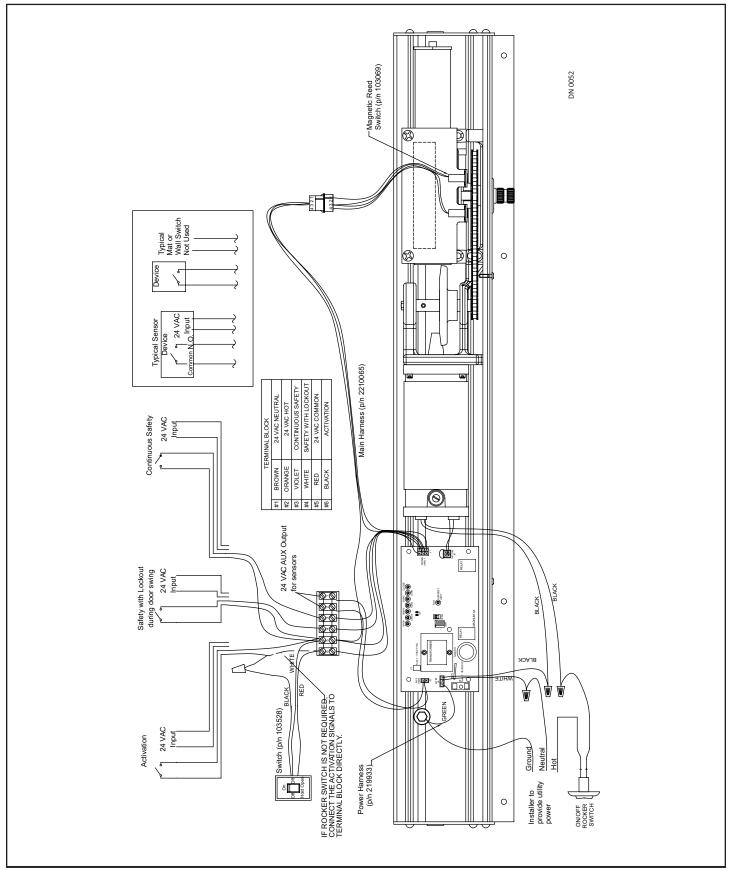
Do Not drill screw holes for the Arm Stop into the Motor/Operator!!!

- 1. Turn Power OFF.
- 2. Manually open the Swing Door 90 degrees.
- 3. Position the Arm Stop at the bottom of Header according to type of Swing Arm and Reveal shown in Figure 24.
- 4. Use the Arm Stop as a template to mark and drill (2) 7/32 inch diameter screw holes.
- 5. Secure the Arm Stop with (2) 1/4-20 x 1 inch Self Tapping screws.

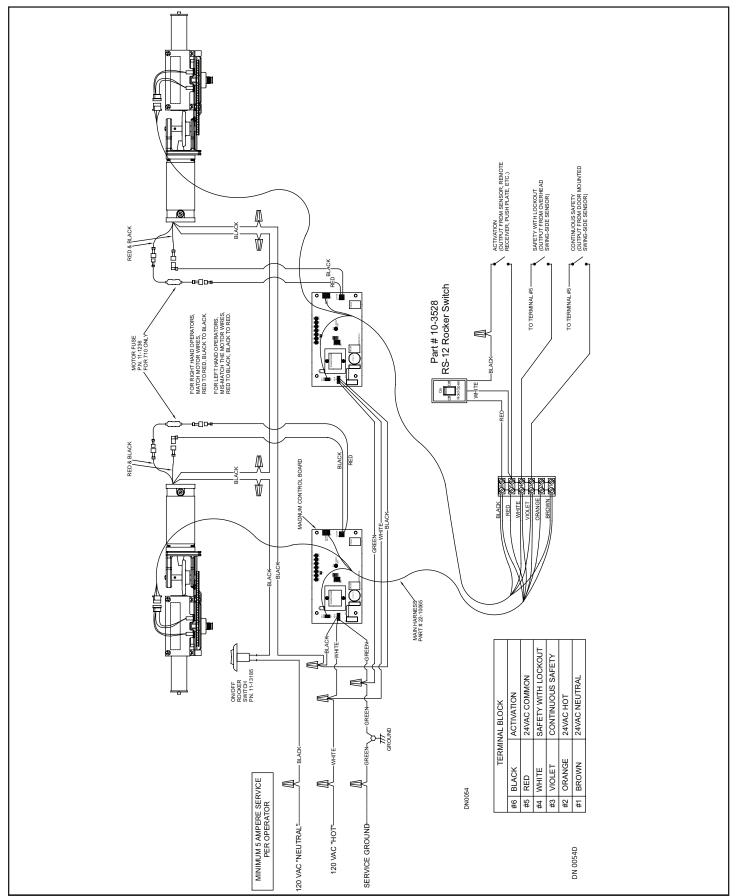


#### **SECTION 7: MAGNUM GENERAL WIRING**

### 7.1.1: GT-710-8710 Single Swing Door



## 7.1.2: GT-710-8710 Simultaneous Pair Swing Door



#### **SECTION 8: ADJUSTMENTS**

#### 8.1 LCN Tension Spring

WARNING

Improperly installed/adjusted Tension Springs may cause property damage or personal injury. Please follow instructions carefully.

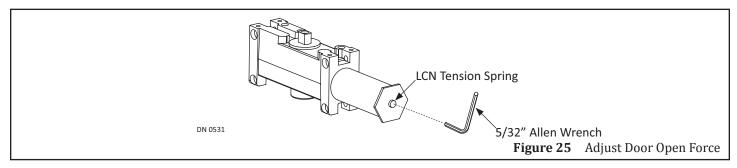
CAUTION

Opening Force must be properly adjusted on the LCN Tension Spring - BEFORE - the Magnum 4A Control can be adjusted.

#### 8.1.1 Adjust Opening/Closing Force (Manual Mode)

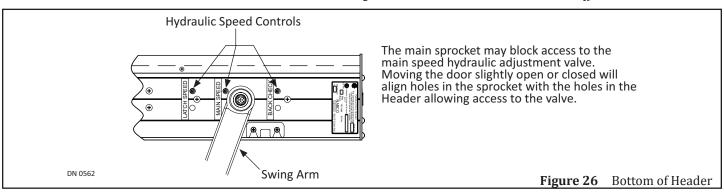
The LCN Tension Spring is used to adjust Opening/Closing Force when the Swing door is used Manually. The Factory preset force is ideal in most cases. Adjustment should only need to be done in special cases.

- 1. Turn Power OFF.
- 2. Insert 5/32 Allen Wrench in the Screw located at the end of the LCN Tension Spring.
  - a. The Spring should be adjusted so that the Swing door can be easily pushed open, but still have enough force to fully close the Swing door.
- 3. To Increase Opening/Closing Force, turn the 5/32 Allen wrench clockwise not more than (9) full turns.
- 4. To Decrease Opening/Closing Force, turn the 5/32 Allen wrench counterclockwise not more than (4) full turns.



#### 8.2 Hydraulic Speed Control (Automatic Mode)

Note: The Close and Latch Potentiometers located on the Magnum 4A Control is disabled and has no effect.



#### 8.2.1: Adjust Main Speed

- 1. Turn Power OFF.
- 2. Insert 3/32 Allen Wrench into the Main Speed adjustment hole.
  - a. If the adjustment hole is blocked by the sprocket, slightly close the Swing door until the adjustment Valve can be accessed.
- 3. Turn the Allen Wrench clockwise to slow down closing speed.

#### 8.2.2: Adjust Latch Speed

- 1. Turn Power OFF.
- 2. Insert 3/32 Allen Wrench into the Latch Speed adjustment hole.

- 3. Turn the Allen Wrench clockwise to slow down Latch Check speed.
- 4. Manually push the Swing door open, then let it close.
- 5. Test Latch Check speed. Re-adjust if necessary.

#### 8.2.3: Adjust Back Check Speed

This adjustment should not be confused with the Back Check (BCHK) setting located on the Magnum 4A control. BCHK determines the amount of power applied to the motor to push the door open through Back Check.

- 1. Turn Power OFF.
- 2. Insert Allen Wrench into the Latch Speed adjustment hole.
- 3. Turn Allen Wrench clockwise to increase hydraulic tension at back check.
- 4. Manually push the Swing door open.
- 5. Test Back Check speed. Re-adjust if necessary.

#### 8.3 Magnum Control Adjustments

Before adjusting speeds:

- ▶ Set the Current Limit to maximum
- ► Adjust the Open-Close-Check speeds
- ► Adjust current limit to the proper level

**Table 4** Dip Switch Information

Dip Switch	ON Position	OFF Position
1	Not Used	Not Used
2	Normally Open Safely	Normally Closed Safely
3	Push-N-Go Inactive	Push-N-Go Active
4	Timer Mode	Sequential Mode

Table 5 Slide Switch

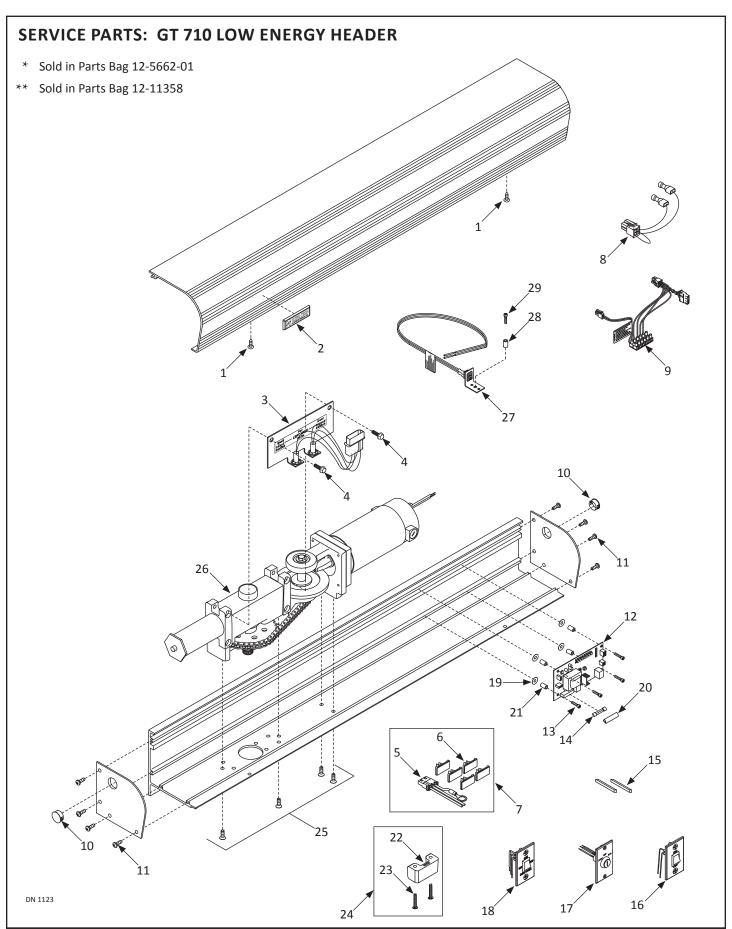
Position	Function
UP	Low Energy (GT-710 & 8710)
DOWN	High Energy (GT-300 & 400 only); Door opens faster

**Table 6** Potentiometers and Functions

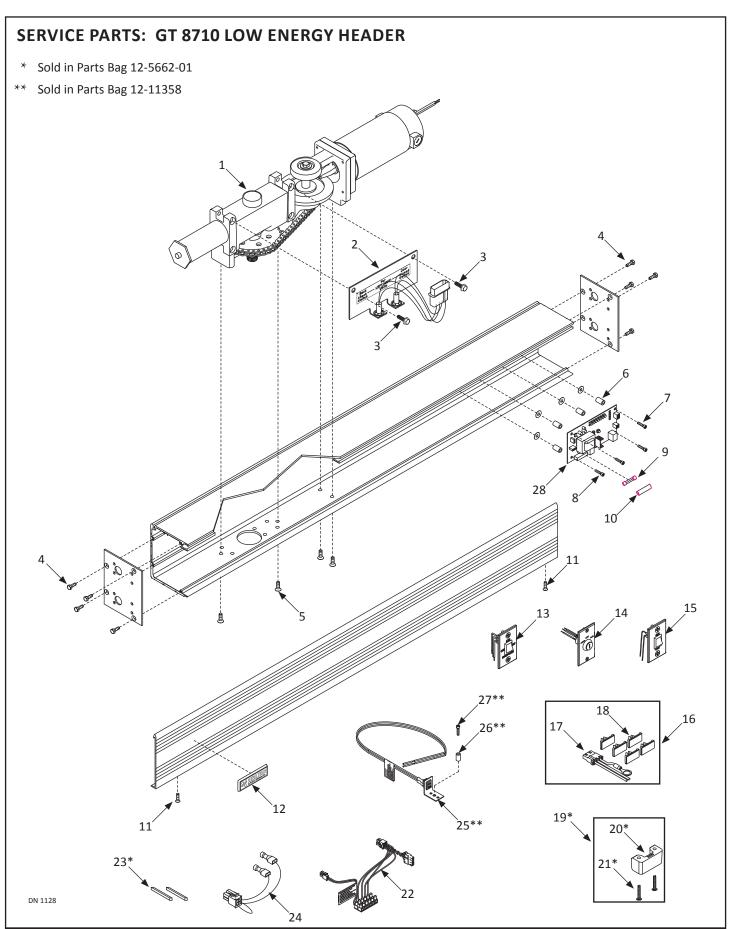
Potentiometer	Function
STOP	<ul> <li>Adjusts how door reacts to continuous safety input (terminal # 3) during Opening. Counterclockwise = door slowly closes, Clockwise = door creeps open</li> <li>For Magnum 4 and 4A only:         <ul> <li>After 8 seconds of the door being held open, motor voltage is lowered to reduce stress on motor and control. "stop" will adjust this reduced voltage.</li> </ul> </li> </ul>
OPEN	Adjusts opening speed. Clockwise = Faster
ВСНК	Adjusts Back Check speed. Clockwise = Faster
TDAS	Adjusts how long door remains open after activation signal. Clockwise = Longer
TDPG	Adjusts how long door remains open after Push-N-Go. Clockwise = Longer
LCHK	Adjusts Latch Check speed. Clockwise = Faster
CLOSE	Adjusts closing speed. Clockwise = Faster
Current Limit	Adjusts how hard the door will push against an obstacle (while opening) before recycling.  Clockwise = less sensitive

 Table 7
 Magnum Control LED Information

LED Color	LED Status	Door Status
Green	Fast Flashing (2 flashes per second)	Door is opening.
	On Steady	Door is in Back Check.
	Slow Flashing (1 flash per second)	Door is closing.
	Off	Door is in Latch Check or Closed
Red	Red Indicator Action	
	Slow Flashing (1 flashes per second)	Continuous Safety Activated
	Fast Flashing (2 flashes per second)	Safety with Lockout Activated
	On Solid	Recycle Activated



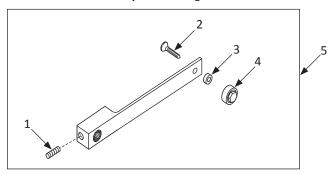
	GT 710 Low Energy Header				
Item	Part	Finish/Sizes/Notes	Description		
1	24-0094-04		SCREW, PHLLPS PAN HD MACH #8 X 5/8" AB		
	24-0094-16		SCREW, PHLLPS PAN HD MACH #8 X 5/8" AB		
2	14-9199		NAMEPLATE, ADHESIVE BACKED		
3	21-9941-01	RH	MAGNETIC SWITCH SUB-ASSY, RH		
	21-9941-02	LH	MAGNETIC SWITCH SUB-ASSY, LH		
4	24-4941-19		HHMS,WASHR,5/16-18 X 1" TYPE F		
5	22-1774		PWR HARNESS - SWGR & SLDR-UL PART		
6	14-9960		SADDLE WIRE		
7	22-0779		POWER HARNESS ASSY - SWINGER		
8	11-10286		MOTOR HARNESS ASSY, GT710		
9	22-10065	Single Swing Door	HARNESS ASSY - MAGNUM, SINGLE		
	22-10270	Simultaneous Pair Swing Door	MAGNUM HARNESS ASSY, SIM PAIR		
10	14-9511-04		PLUG, HOLE, .813 DIAMETER, BLK		
11	24-0015-61	Zinc	RHMS,1/4-20 X 3/4" PHIL, TYPE F, ZN		
	24-0015-62	Dark Bronze	RHMS,1/4-20 X 3/4"PHIL,SELFTAP		
12	24-9800		MAGNUM CONTROL BOARD		
13	24-0010-03		SHCS, 10-24 X 1		
14	14-9470	Magnum 4A only	FUSE, MC		
	14-11862	Magnum 1-4 only	FUSE 5 AMP		
15	14-9943		MAGNET, CERAMIC 1/4" SQUARE X 1"		
16	10-3527		LE RS-11 ON/OFF RCKR SWITCH ASY W/FPLT		
17	22-1772-03		KEY SWITCH KS-14 3 POSITION		
	22-1772-05		KEY SWITCH KS-16 2 POS MOMENTARY		
18	10-3528		LE RS-12 ON/OFF/HLD OPN RCKR SWITCH ASY		
19	24-0017-47		WASHER, 156 ID X .750 OD X .020 THK		
20	14-10015	Magnum 1-4 only	FUSE COVER		
21	14-8743		SPACER - NYLON #10 X 5/8 3/8 OD		
22	14-11586		ARM STOP 710		
23	24-4941-21		PHMS,PHIL,1/4-20 X1 1/2" TYPE F		
24	14-12073		ARM STOP ASSEMBLY FOR SIDELOAD		
25	24-0011-13		FHMS, 1/4-20 X 3/4", PHIL, ZN		
	24-0011-96		FHMS,1/4-20 X 3/4,PHIL		
26	22-10311-01	RH	OPER.ASM,GT710,RH		
	22-10311-02	LH	OPER.ASM,GT710,LH		
27	11-13185		POWER SWITCH ASSY, SWINGERS / 710		
28	14-8743		SPACER - NYLON #10 X 5/8 3/8 OD		
29	24-0010-01		SHCS,10-24 X 7/8CAD-UL PART		



	GT 8710 Low Energy Header				
Item	Part	Finish/Sizes/Notes	Description Description		
1	22-10311-01	RH	OPER.ASM,GT710,RH		
	22-10311-02	LH	OPER.ASM,GT710,LH		
2	21-9941-01	RH	MAGNETIC SWITCH SUB-ASSY, RH		
	21-9941-02	LH	MAGNETIC SWITCH SUB-ASSY, LH		
3	24-4941-19		HHMS,WASHR,5/16-18 X 1" TYPE F		
4	24-0011-70	Zinc	FHMS, 1/4-20 X 7/16", PHIL, UND, ZN		
	24-0011-73	Black Onix	FHMS,1/4-20 X 7/16", PHIL, UND, BLK OX		
5	24-0011-13		FHMS, 1/4-20 X 3/4", PHIL, ZN		
	24-0011-96		FHMS,1/4-20 X 3/4,PHIL		
6	14-8743		SPACER - NYLON #10 X 5/8 3/8 OD		
7	24-0017-47		WASHER, 156 ID X .750 OD X .020 THK		
8	24-0010-03		SHCS, 10-24 X 1		
9	14-9470	Magnum 4A only	FUSE, MC		
	14-11862	Magnum 1-4 only	FUSE 5 AMP		
10	14-10015	Magnum 1-4 only	FUSE COVER		
11	24-0094-04		SCREW, PHLLPS PAN HD MACH #8 X 5/8" AB		
12	14-9199		NAMEPLATE, ADHESIVE BACKED		
13	10-3528		LE RS-12 ON/OFF/HLD OPN RCKR SWITCH ASY		
14	22-1772-03		KEY SWITCH KS-14 3 POSITION		
	22-1772-05		KEY SWITCH KS-16 2 POS MOMENTARY		
15	10-3527		LE RS-11 ON/OFF RCKR SWITCH ASY W/FPLT		
16	22-0779		POWER HARNESS ASSY - SWINGER		
17	22-1774		PWR HARNESS - SWGR & SLDR-UL PART		
18	14-9960		SADDLE WIRE		
19	14-12073		ARM STOP ASSEMBLY FOR SIDELOAD		
20	14-11586		ARM STOP 710		
21	24-4941-21		PHMS,PHIL,1/4-20 X1 1/2" TYPE F		
22	22-10065	Single Swing Door	HARNESS ASSY - MAGNUM, SINGLE		
	22-10270	Simultaneous Pair Swing Door	MAGNUM HARNESS ASSY, SIM PAIR		
23	14-9943		MAGNET, CERAMIC 1/4" SQUARE X 1"		
24	11-10286		MOTOR HARNESS ASSY, GT710		
25	11-13185		POWER SWITCH ASSY, SWINGERS / 710		
26	14-8743		SPACER - NYLON #10 X 5/8 3/8 OD		
27	24-0010-01		SHCS,10-24 X 7/8CAD-UL PART		
28	24-9800		MAGNUM CONTROL BOARD		

# SERVICE PARTS: LOW ENERGY SWING ARM ASSEMBLIES

Inswing Arm Reveal *Equal* to 0 degrees

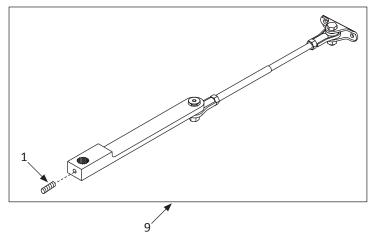


Outswing Arm Assembly

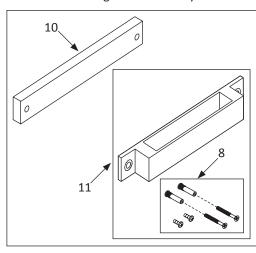
(CU) Inswing Arm Assembly Reveal Greater than 0 inches

15

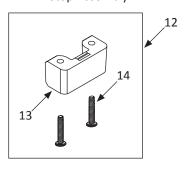
Low Profile Outswing Arm Assembly



**Inswing Track Assembly** 



Arm Stop Assembly



DN 1073

Item
1 24-0016-33 SCREW, SET 5/16-24 X 1/2, CUP POINT 2 24-0011-15 SCREW, 3/8"-24 X 1.25 LG, FHCS, ZINC 3 24-0017-07 WASHER, 3/8 ID X 3/4 OD X.375 THK ZINC 4 11-1935 REPLACEMENT ROLLER ASSY 5 21-0902-01 Clear CU - INSWING ARM, NON PANIC NH 204 21-0902-02 Dark Bronze CU - INSWING ARM, NON PANIC NH 313 6 22-13992-41 Clear KIT,SWINGER ARM 20 IN.204 22-13992-42 Dark Bronze KIT,SWINGER ARM 20 IN.313 22-13992-51 Clear KIT,SWINGER ARM 30 IN.204 22-13992-52 Dark Bronze KIT,SWINGER ARM 30 IN.313 7 21-8848-41 Clear OUTSWING ARM ASSY, 20" ROD, 204 21-8848-42 Dark Bronze OUTSWING ARM ASSY, 20" ROD, 204 21-8848-51 Clear OUTSWING ARM ASSY, 30" ROD, 204 21-8848-52 Dark Bronze OUTSWING ARM ASSY, 30" ROD, 313 8 12-1355 Clear PARTS BAG, TRACK & ARM CU GUIDE CLEAR 12-1355-02 Dark Bronze PARTS BAG, TRACK & ARM CU GUIDE BRONZE 9 21-10546-41 Clear C.U. OUTSWING ARM ASSY, 20" THREADED ROD 21-10546-51 Clear C.U. OUTSWING ARM ASSY, 30" THREADED ROD 21-10546-52 Dark Bronze C.U. OUTSWING ARM ASSY, 30" THREADED ROD
3       24-0017-07       WASHER, 3/8 ID X 3/4 OD X.375 THK ZINC         4       11-1935       REPLACEMENT ROLLER ASSY         5       21-0902-01       Clear       CU - INSWING ARM, NON PANIC NH 204         21-0902-02       Dark Bronze       CU - INSWING ARM, NON PANIC NH 313         6       22-13992-41       Clear       KIT,SWINGER ARM 20 IN.204         22-13992-52       Dark Bronze       KIT,SWINGER ARM 30 IN.204         22-13992-52       Dark Bronze       KIT,SWINGER ARM 30 IN.313         7       21-8848-41       Clear       OUTSWING ARM ASSY, 20" ROD, 204         21-8848-42       Dark Bronze       OUTSWING ARM ASSY, 20" ROD, 313         21-8848-51       Clear       OUTSWING ARM ASSY, 30" ROD, 204         21-8848-52       Dark Bronze       OUTSWING ARM ASSY, 30" ROD, 313         8       12-1355       Clear       PARTS BAG, TRACK & ARM CU GUIDE CLEAR         12-1355-02       Dark Bronze       PARTS BAG, TRACK & ARM CU GUIDE BRONZE         9       21-10546-41       Clear       C.U. OUTSWING ARM ASSY, 20" THREADED ROD         21-10546-52       Dark Bronze       C.U. OUTSWING ARM ASSY, 30" THREADED ROD         21-10546-52       Dark Bronze       C.U. OUTSWING ARM ASSY, 30" THREADED ROD
3       24-0017-07       WASHER, 3/8 ID X 3/4 OD X.375 THK ZINC         4       11-1935       REPLACEMENT ROLLER ASSY         5       21-0902-01       Clear       CU - INSWING ARM, NON PANIC NH 204         21-0902-02       Dark Bronze       CU - INSWING ARM, NON PANIC NH 313         6       22-13992-41       Clear       KIT,SWINGER ARM 20 IN.204         22-13992-52       Dark Bronze       KIT,SWINGER ARM 30 IN.204         22-13992-52       Dark Bronze       KIT,SWINGER ARM 30 IN.313         7       21-8848-41       Clear       OUTSWING ARM ASSY, 20" ROD, 204         21-8848-42       Dark Bronze       OUTSWING ARM ASSY, 20" ROD, 313         21-8848-51       Clear       OUTSWING ARM ASSY, 30" ROD, 204         21-8848-52       Dark Bronze       OUTSWING ARM ASSY, 30" ROD, 313         8       12-1355       Clear       PARTS BAG, TRACK & ARM CU GUIDE CLEAR         12-1355-02       Dark Bronze       PARTS BAG, TRACK & ARM CU GUIDE BRONZE         9       21-10546-41       Clear       C.U. OUTSWING ARM ASSY, 20" THREADED ROD         21-10546-52       Dark Bronze       C.U. OUTSWING ARM ASSY, 30" THREADED ROD         21-10546-52       Dark Bronze       C.U. OUTSWING ARM ASSY, 30" THREADED ROD
5       21-0902-01       Clear       CU - INSWING ARM, NON PANIC NH 204         21-0902-02       Dark Bronze       CU - INSWING ARM, NON PANIC NH 313         6       22-13992-41       Clear       KIT,SWINGER ARM 20 IN.204         22-13992-51       Clear       KIT,SWINGER ARM 30 IN.204         22-13992-52       Dark Bronze       KIT,SWINGER ARM 30 IN.313         7       21-8848-41       Clear       OUTSWING ARM ASSY, 20" ROD, 204         21-8848-42       Dark Bronze       OUTSWING ARM ASSY, 30" ROD, 204         21-8848-51       Clear       OUTSWING ARM ASSY, 30" ROD, 313         8       12-1355       Clear       OUTSWING ARM ASSY, 30" ROD, 313         8       12-1355-02       Dark Bronze       PARTS BAG, TRACK & ARM CU GUIDE CLEAR         9       21-10546-41       Clear       C.U. OUTSWING ARM ASSY, 20" THREADED ROD         21-10546-42       Dark Bronze       C.U. OUTSWING ARM ASSY, 20" THREADED ROD         21-10546-51       Clear       C.U. OUTSWING ARM ASSY, 30" THREADED ROD         21-10546-52       Dark Bronze       C.U. OUTSWING ARM ASSY, 30" THREADED ROD
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21-10546-52 Dark Bronze C.U. OUTSWING ARM ASSY, 30" THREADED ROD
·
10 14-5806 SPACER, TRACK - 1/4" X 12-1/4" BLK
11 21-0997-01 Clear CU - GUIDE TRACK ASSY 12.25" 204
21-0997-02 Dark Bronze CU - GUIDE TRACK ASSY 12.25" 313
21-0998-01 Long/Clear CU - GUIDE TRACK ASSY 21" 204
21-0998-02 Long/Dark Bronze CU - GUIDE TRACK ASSY 21" 313
12 14-12073 ARM STOP ASSEMBLY FOR SIDELOAD
13 14-11586 ARM STOP 710
14 24-4941-21 PHMS,PHIL,1/4-20 X1 1/2" TYPE F
15 21-10329-11 LH/Clear ARM, INSWING LH 204 REVEAL 0-2
21-10329-12 LH/Dark Bronze ARM, INSWING LH 313 REVEAL 0-2
21-10329-21 LH/Clear ARM, INSWING LH 204 REVEAL 2-5 1/2
21-10329-22 LH/Dark Bronze ARM, INSWING LH 313 REVEAL 2-5 1/2
21-10329-31 LH/Clear ARM, INSWING LH 204 REVEAL 5 1/2-9 3/4
21-10329-32 LH/Dark Bronze ARM, INSWING LH 313 REVEAL 5 1/2-9 3/4
21-10329-41 LH/Clear ARM, INSWING LH 204 REVEAL 9 3/4-13
21-10329-42 LH/Dark Bronze ARM, INSWING LH 313 REVEAL 9 3/4-13
16 21-10329-51 LH/Clear ARM, INSWING RH 204 REVEAL 0 - 2
21-10329-52 LH/Dark Bronze ARM, INSWING RH 313 REVEAL 0 - 2
21-10329-61 LH/Clear ARM, INSWING RH 204 REVEAL 2 - 5 1/2
21-10329-62 LH/Dark Bronze ARM, INSWING RH 313 REVEAL 2 - 5 1/2
21-10329-71 LH/Clear ARM INSWING RH 204 REVEAL 5 1/2- 9 3/4
21-10329-72 LH/Dark Bronze ARM INSWING RH 313 REVEAL 5 1/2- 9 3/4
21-10329-81 LH/Clear ARM INSWING RH 204 REVEAL 9 3/4 - 13
21-10329-82 LH/Dark Bronze ARM INSWING RH 313 REVEAL 9 3/4 - 13