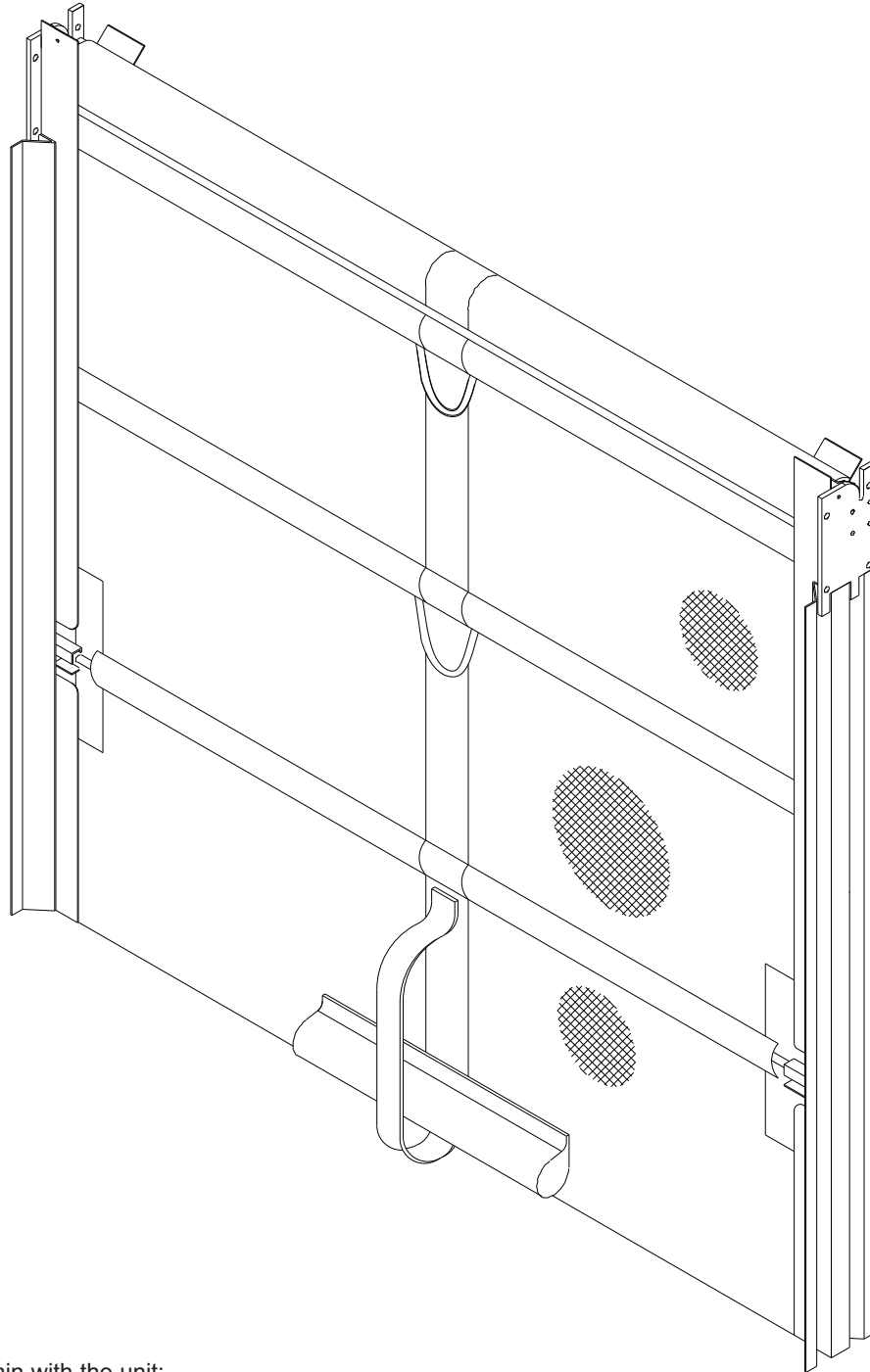


# BUGSHIELD™

## ROLL-UP SCREEN DOOR

### MODEL 5700



This manual to remain with the unit:  
Date Installed: \_\_\_\_\_



**RITE·HITE®**  
ALWAYS LOOKING AHEAD



This Manual Covers Serial No. 06896 (=> 4-6-98), For Doors Prior Consult Factory.

# PRODUCT INTRODUCTION

## TABLE OF CONTENTS

INSTALLATION INSTRUCTIONS .....	3
IN-JAMB MOUNTING BRACKET INSTALLATION .....	4
IN-JAMB ROLLER TUBE INSTALLATION .....	6
IN-JAMB CURTAIN INSTALLATION .....	9
LIMIT SWITCH ADJUSTMENT .....	10
IN-JAMB TRACK INSTALLATION .....	11
FACE MOUNT INSTALLATION .....	13
OVERHEAD MOUNT INSTALLATION .....	14
MAINTENANCE / TROUBLESHOOTING .....	18
ELECTRICAL INSTALLATION .....	19
EXPLODED VIEW WITH PARTS LIST .....	20
ARCHITECTURAL DRAWINGS .....	24
WARRANTY PAGE .....	last page

## NOTICE TO USER

**Our mission is to “Improve Industrial Safety, Security and Productivity Worldwide through Quality and Innovation.”**

Thank you for purchasing the BUGSHIELD™ screen door from **RITE-HITE DOORS, INC.** The BUGSHIELD is designed to help keep birds and insects from entering through exterior doorways and loading docks. The dynamic roll-up feature provides passage of personnel and equipment while providing excellent environmental protection and airflow with several options: In-Jamb, Face and Overhead mounts.

This owner's manual **MUST** be stored near the door. **RITE-HITE DOORS, INC.** reserves the right to modify the electrical and architectural drawings in this manual as well as the actual parts used on this product are subject to manufacturing changes and may be different than shown in this manual. Due to unique circumstances with varying requirements, separate prints may be included with the unit. This manual should be thoroughly read and understood before beginning the installation, operation or servicing of this door. The information contained in this manual will allow you to operate and maintain the door in a manner which will insure maximum life and trouble free operation. The serial # label for your door is located on the side of the track.

Your local **RITE-HITE DOORS, INC.** Representative provides the Planned Maintenance Program (P.M.P.) which can be fitted to your specific operation. If any procedures for the installation, operation or maintenance of the BUGSHIELD have been left out of this manual or are not complete, contact **RITE-HITE DOORS, INC. Technical Support** at 1-563-589-2722.

## SPECIAL FEATURES

- Up to 40-50% airflow, with vinyl-coated polyester mesh.
- Heavy-duty industrial materials.
- Manual or power roll-up.
- Variety of mesh colors available including custom colors (consult factory).
- Water-resistant Hypalon™ bottom seal.

## RECOMMENDED TOOL LIST

3/8" [10] Tap Drill	Drill
9/16" [14] Socket and Wrench	Straight Screwdriver
5/32" [4] Allen Wrench	Phillips Screwdriver
6' [1829] Level	Pop Rivet Gun
25' [7620] Tape Measure	Hand Grinder
Utility Knife	Wire Strippers
3/32" [2] Allen Wrench	
5/16" or 3/8" [8 or 10] Driver for Tek Screws	

## SAFETY IDENTIFICATION

### NOTE:

*A Note is used to inform you of important installation, operation or maintenance information.*



## DANGER

**Danger indicates the presence of a hazard that will cause severe personal injury, death.**



## WARNING

**Warning indicates the presence of a hazard that can cause severe personal injury, death.**



## CAUTION

**Caution indicates the presence of a hazard that will or can cause minor personal injury, death.**

## NOTICE

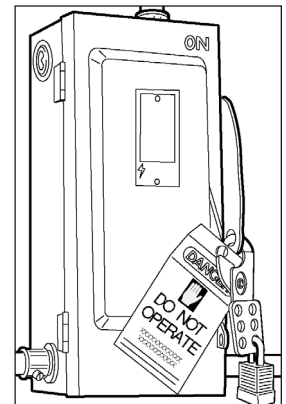
**Notice communicates installation, operation, or maintenance information that is safety related but not hazard related and may cause equipment or property damage.**

## LOCKOUT/TAGOUT PROCEDURES

The Occupational Safety and Health Administration requires that, in addition to posting safety warnings and barricading the work area, the power supply has been locked in the OFF position or disconnected. It is mandatory that an approved lockout device is utilized. An example of a lockout device is illustrated. The proper lockout procedure requires that the person responsible for the repairs is the only person who has the ability to remove the lockout device.

In addition to the lockout device, it is also a requirement to tag the power control in a manner that will clearly note that repairs are under way and state who is responsible for the lockout condition. Tagout devices have to be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or become unreadable.

RITE-HITE Corporation does not recommend any particular lockout device, but recommends the utilization of an OSHA approved device (refer to OSHA regulation 1910.147). RITE-HITE Corporation also recommends the review and implementation of an entire safety program for the Control of Hazardous Energy (Lockout/Tagout). These regulations are available through OSHA publication 3120.



# INSTALLATION INSTRUCTIONS



## DANGER !!!

When working with electrical or electronic controls, make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.



## CAUTION !!!

Make sure to barricade the door opening on both sides to prevent unauthorized use until the door has been completely installed.

## NOTICE

It is important to verify the door opening to the door size before starting with the installation.

It is important to verify the following basic information before starting with the installation.

**TO PREVENT DAMAGE TO CONTENTS, STORE DRY BETWEEN 40° AND 80° F.**

1. Alternate dimensions in brackets are in [millimeters].
2. Make sure that you are working at the correct location and that you have any required work permits.
3. Inspect the site to make sure that there are no overhead obstructions (sprinkler pipes, HVAC systems, electrical supply lines, etc.) that might interfere with the installation.
4. Detour material handling equipment during the installation.
5. Make sure that the electrician is ready to bring the correct electrical power supply to the door control box. Make sure that the correct electrical power is supplied (110VAC) to the door if powered option is chosen.
6. Make sure that the electrical power can be shut off without interfering with other plant operations.
7. Move the door crate as close to the opening as possible.
8. In the case of multiple doors being installed, it is imperative to install the proper components with the matching door unit. The serial # for your door is on a label located on the side of the lower track, [Figure 9.2](#).
9. Install optional equipment after verifying door operation.

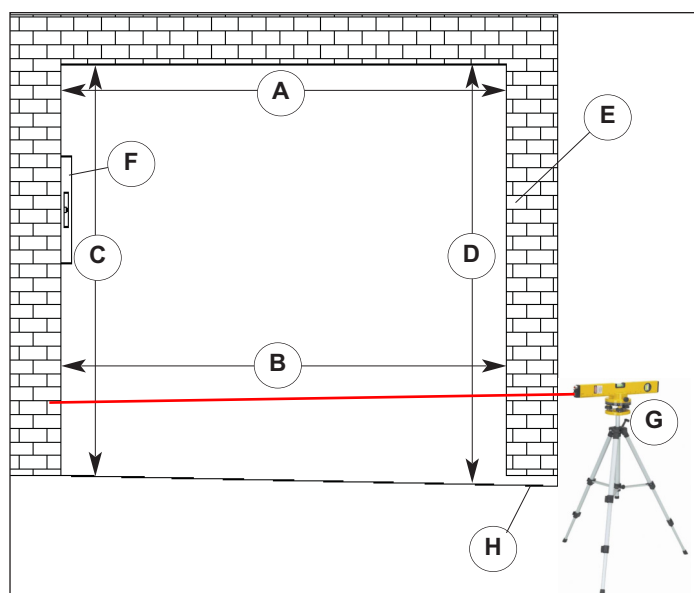


Figure 3.1

**NOTE:** *Electrical prints included in the parts supersede any prints included in this owners manual on [Page 19](#). Always check for electrical prints.*

10. If jamb is less than 6 1/2" [165] wide, a narrow In-Jamb bracket and track version is used.

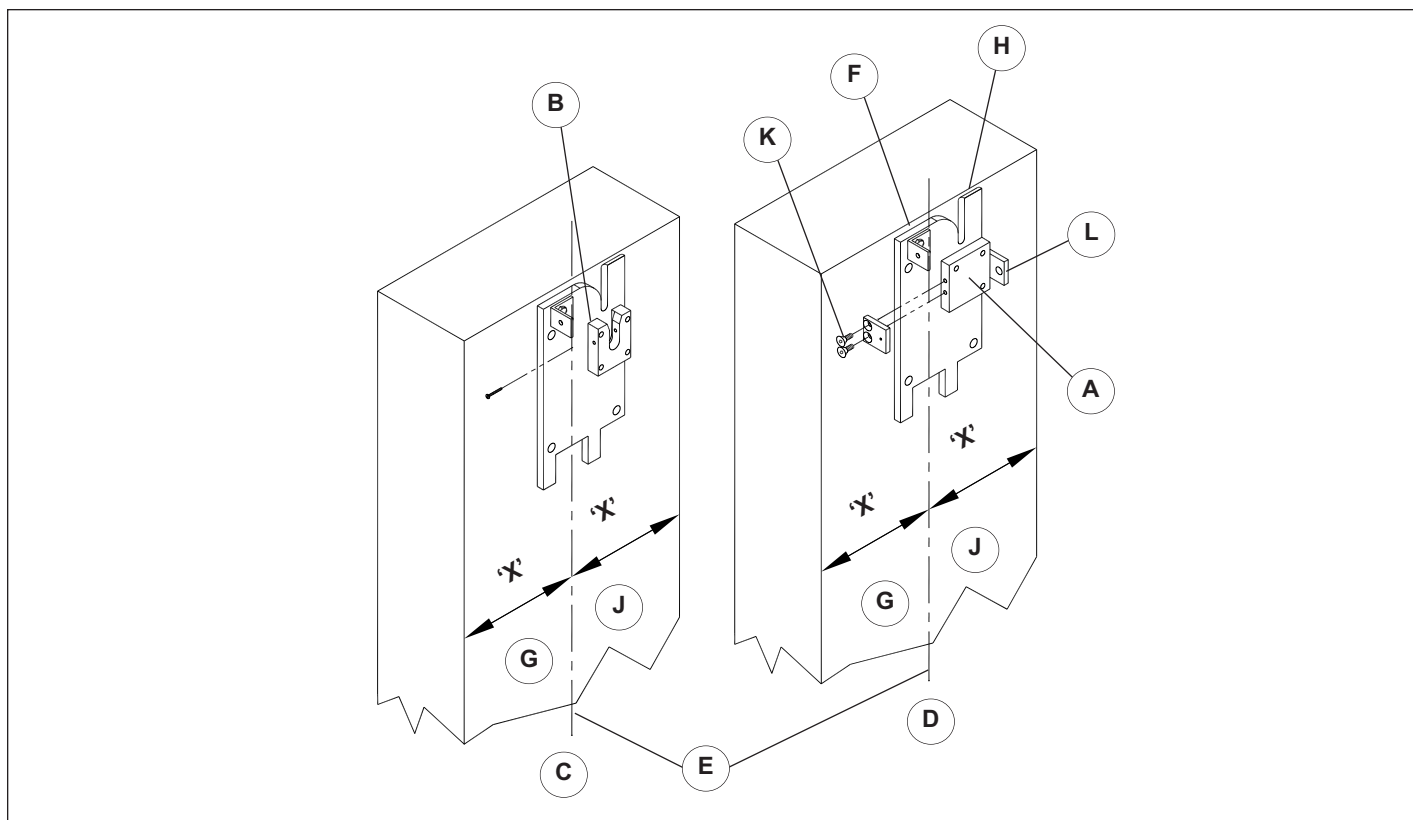
**\*\* Reference right or left from inside the building, or the same side that the door is mounted on.**

### DOOR JAMB

1. Measure Door Opening Width at the top (A).
2. Measure Door Opening Width at the floor (B).
3. Measure Door Opening Height at left side (C).
4. Measure Door Opening Height at right side (D).
5. Dimensions from Steps 1 - 4 should be within  $\pm 1/2"$  [13] of the dimensions listed on the serial number label. If the measurements do not agree, STOP! Contact your **RITE-HITE DOORS, INC.** representative.
6. Surface MUST be flat, smooth and collinear with opposite side (E).
7. Using a 6' [1829] carpenter's level (F), verify that the door jambs and header are plumb and perpendicular.
8. Using a laser level (G), place a mark where the laser is sighted on each side of the jamb to determine if the floor is level. Measure both sides from floor to the mark and if the floor is not level to within 1/8" [3], shim under the sideframe that will be located on the "Low Side" (H) (greatest measurement) of the door opening.

For space clearance requirements, see Architectural drawings on [Pages 24 - 27](#).

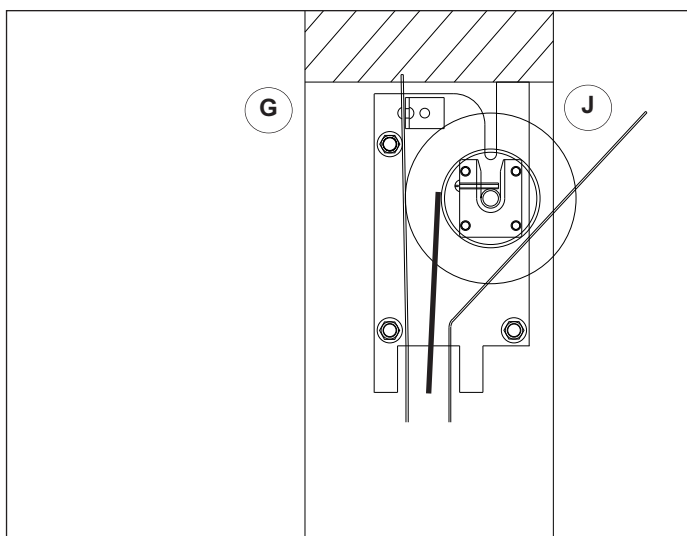
# IN-JAMB MOUNTING BRACKET INSTALLATION



**Figure 4.1**

**\*\* Reference right or left from inside the building, or the same side that the door is mounted on.**

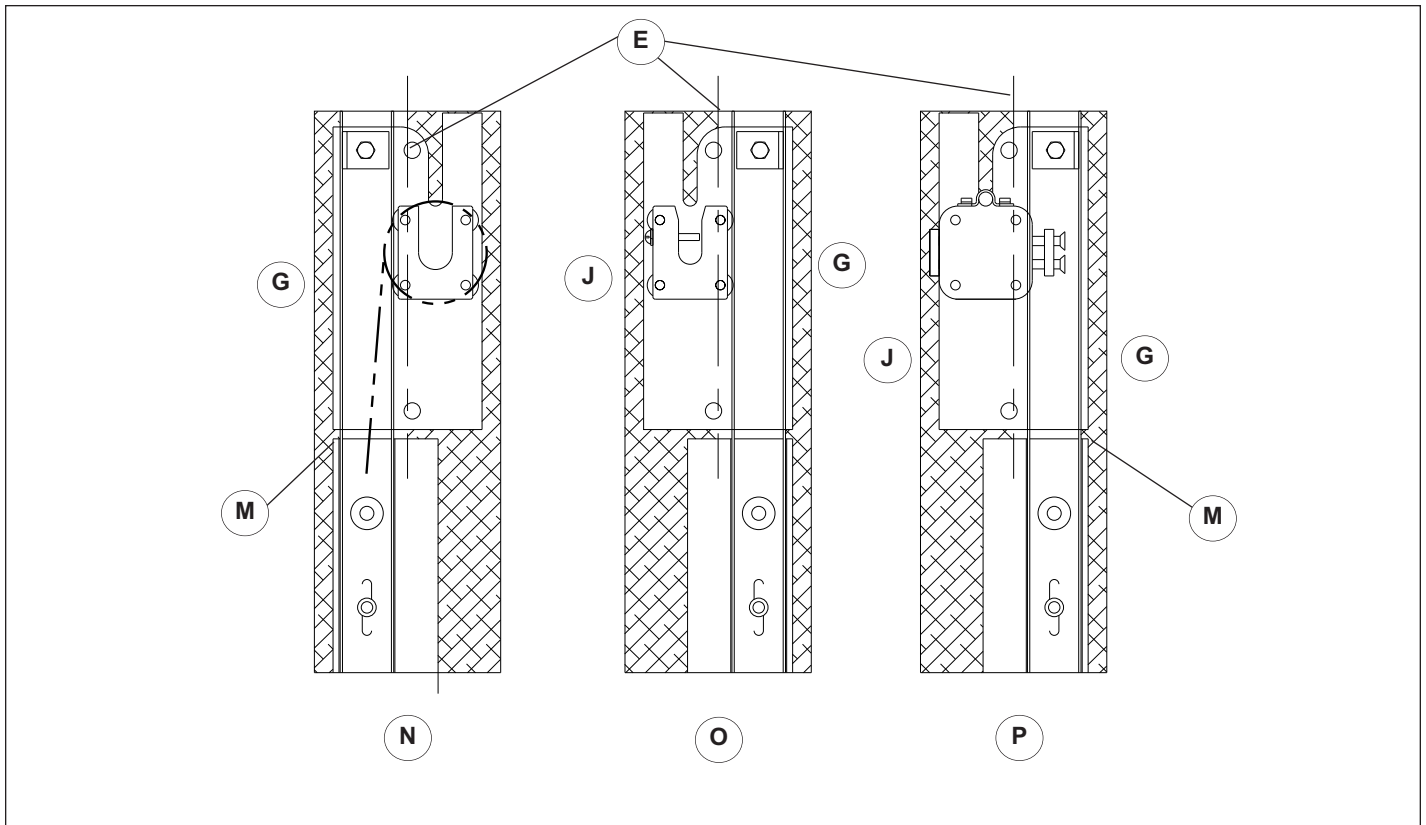
1. Determine drive (A) and non-drive (B) brackets by looking at the "U" shaped bracket.
2. Manual (C) doors have two "U" shaped brackets and powered (D) models will have only one "U" shaped bracket.
3. For a manual door, the wider groove is for the non-drive side roller bearing. The narrow groove is for the drive side shaft. The drive spring is always on the right hand side for manual doors.
4. If metal jamb, mount brackets using a 3/8" [10] tap/drill. Brackets may be welded in place as long as they are kept square. Only tack in place too make sure everything fits.
5. On power doors, the "U" shaped bracket is on the non-drive side for the roller bearing, and the bracket with the two tabs (L) goes on the drive side for the motor.
6. The motor can be either right or left hand mounted depending on power location.
7. Mount the bracket so the motor cable exits the side that the switch will be mounted on. One motor drive bracket tab with two cap screws (K) (5/32" [4] allen wrench) will be loose to allow for the roller tube to be installed. Loctite should be used on these screws.



**Figure 4.2**

8. Before placing roller tube into the brackets, verify that the motor cord cover has been pre-installed.
9. Curtain centerline (E). Center the fork of the bracket on the centerline on the jamb.
10. The direction of the "L" shaped motor cable groove (F) on the bracket faces the inside (G) the building and indicates the direction the curtain will roll off the tube. Use shims if the jamb is not square.
11. Position long leg (H) of mounting bracket tight to the lintel and toward outside (J) of building. Corner may need to be rounded for welding

# NARROW IN-JAMB MOUNTING BRACKET INSTALLATION



**Figure 4.3**

1. Bracket centered (E) on jamb.
2. Track flush with outside of bracket (M).
3. Idle bracket (N).
4. Manual drive side bracket (O).
5. Power drive side bracket (P).



# IN-JAMB ROLLER TUBE INSTALLATION

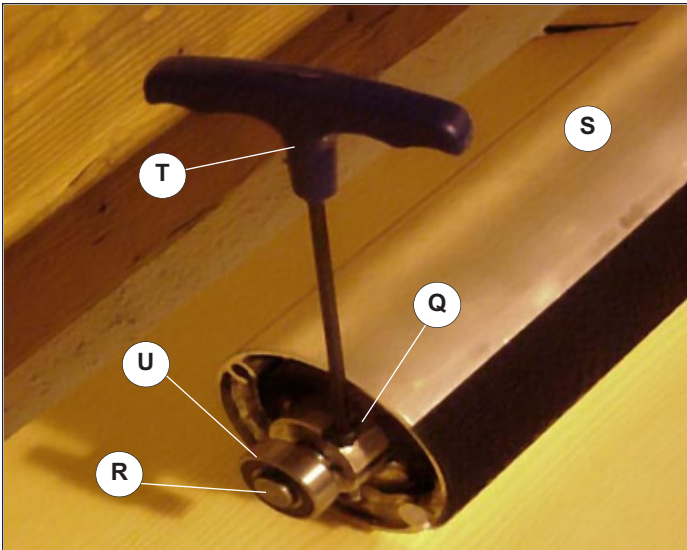


Figure 6.1

1. Loosen the lock collar (Q) on the non-drive shaft.
2. To adjust, slide non-drive shaft (R) on the roller tube (S) and set in non-drive bracket (B). Tighten the cap screw in the collar on the non-drive shaft to 60 in./lbs [6.8 N-m].
3. Allen wrench (T).
4. Install the roller tube (S) by inserting the shaft with roller bearing (U) into the non-drive bracket.
6. **During “Pre-tension” (W), install the drive side with the flat spot (V) on the end of the shaft facing the floor.**
7. Looking at the ratchet side end of the roller tube, rotate (X) the roller tube, (note label) (Y) 30 revolutions for 9'-1" [2769] to 10' [3048] high door, 28 revolutions for 8'-1" [2464] to 9' high door, and 26 revolutions for 8' [2438] high or less door to apply pretension.

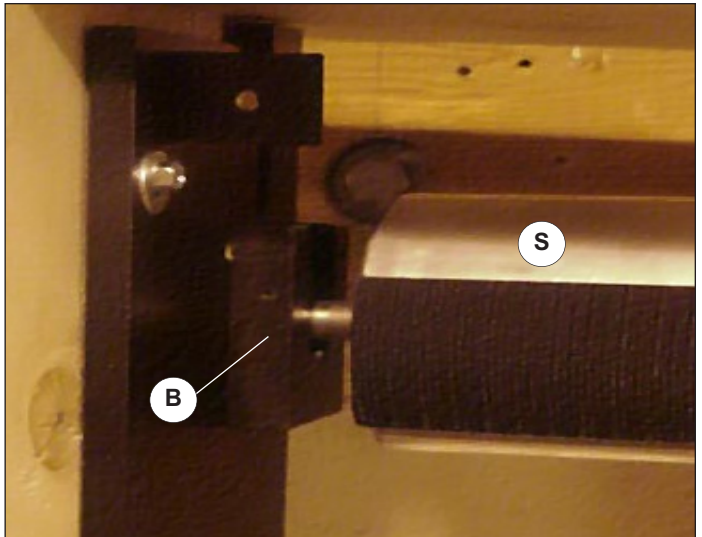


Figure 6.3

## NOTICE

**Head of fastener used to mount bracket to the wall, MUST BE kept to a minimum to avoid the curtain and retention bars from catching.**

8. Carefully lift the shaft of the roller out of the drive bracket (AD) and rotate it 180° so that the flat spot faces the ceiling (Z) to the “Post-tension” position (AE).
9. Try to position the hook and loop fastener on the roller tube to the front so the curtain can be easily attached. Tighten the two 3/32" [2] allen head screws (AA) to lock the roller assembly in place on the drive end (AD) of the roller tube.

## CAUTION !!!

**If the roller tube pawls are not engaged and the roller tube is released during tensioning, an un-controlled unwind will occur.**

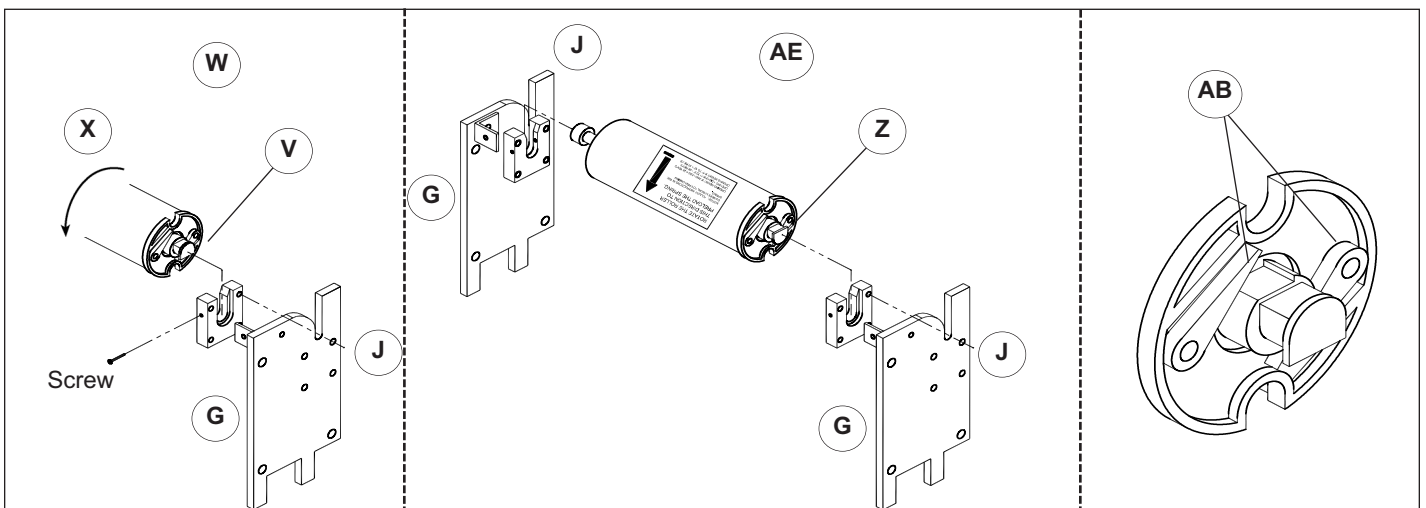


Figure 6.2

# IN-JAMB ROLLER TUBE INSTALLATION



Figure 6.4

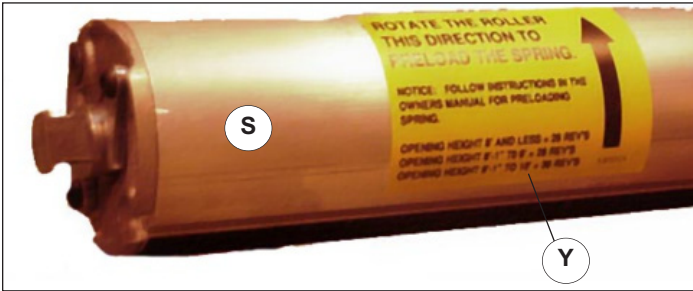


Figure 6.5

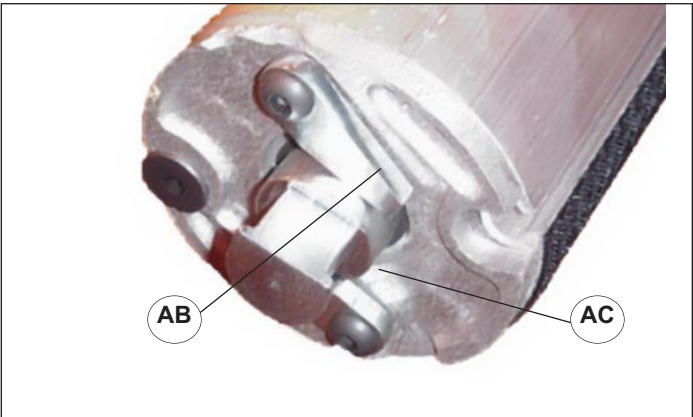


Figure 6.7

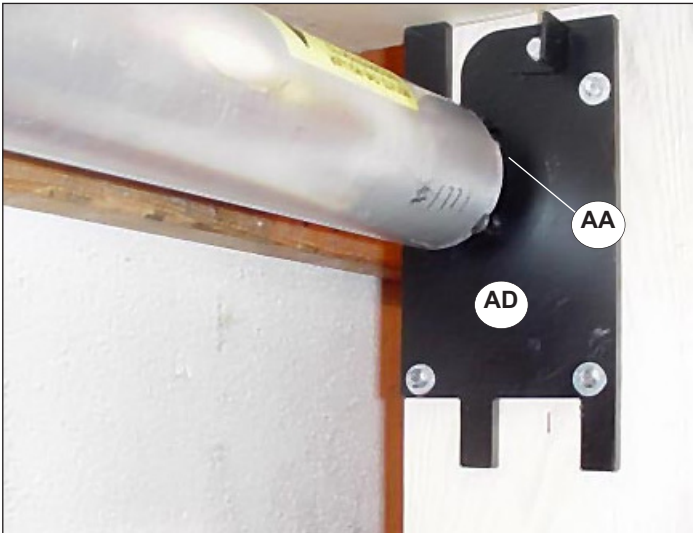


Figure 6.6

# IN-JAMB ROLLER TUBE INSTALLATION

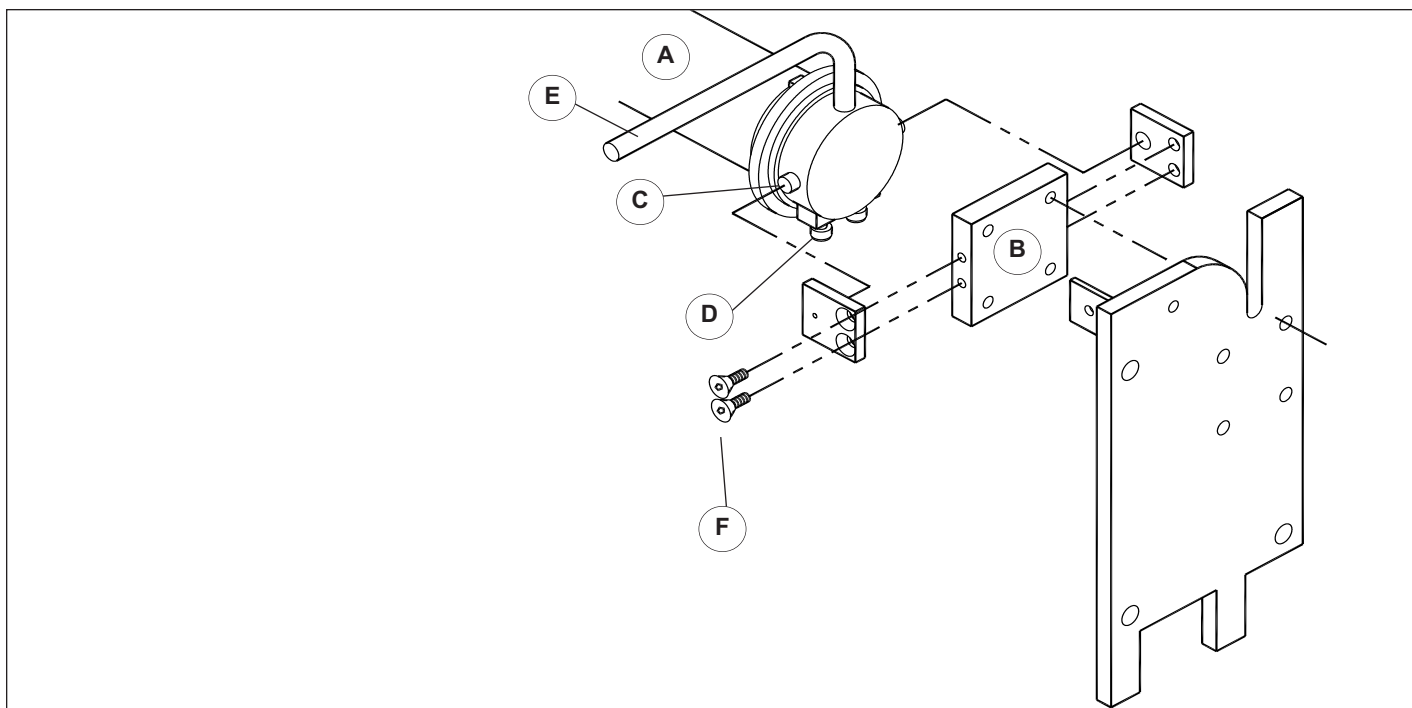


Figure 8.1

## NOTICE

**Keep roller tube level with motor, as motor may fall out and cause damage.**

1. Install the motor (A) into the drive bracket (B) by positioning the two 3/8" [10] diameter drive pins (C) into the holes of the drive bracket.
2. Make sure the limit adjustment screws (D) face the floor and the electrical cord (E) is at the top.
3. Tighten the two 5/32" [4] allen screws (F) into place. Loctite should be used on these screws.

### NOTE:

***Motor has a screw fastened approximately 26 1/2" [673] from the drive end of the aluminum tube to hold it in place and prevent from slipping out.***



# IN-JAMB CURTAIN INSTALLATION

Track with serial # label (E).

Unroll and inspect the curtain for any defects.

Remove TURN-TITE, and lintel seals.

In-Jamb mount shown

## Manual Model

1. After the curtain (A) is attached, the pawl can be disengaged to unlock the spring mechanism by unrolling the roller tube 1/2 turn and slowly allow the curtain to roll onto the tube.
2. If curtain does not fully open, check for binding of the curtain and/or wind bars (B) on the jamb or the mounting brackets. If all is clear and more tension needs to be placed on the spring. Pull the door using the handle (C) to the closed position, remove the curtain from the roller tube and slowly allow the spring to unwind. Follow procedure for winding spring and add a couple more turns to the spring.
3. If door goes up too fast and needs to be slowed down. Pull the door to the closed position, remove the curtain from the roller tube and slowly allow the spring to unwind. Follow the procedure for winding spring and remove a couple turns from the spring.
4. After installation the BUGSHIELD logo should face outside and the roll stop faces the inside of the building.
5. Lock the curtain in place with the latch bar (D).

## Powered Model

1. Connect power per Wiring Diagram [Page 19](#).
2. Power the motor in the closed direction until it reaches the closed limit switch and stops.
3. Activate the switch so the door fully opens. If the door stops short or over travels, adjust the open limit switch, [Figure 10.1 & 10.2](#).

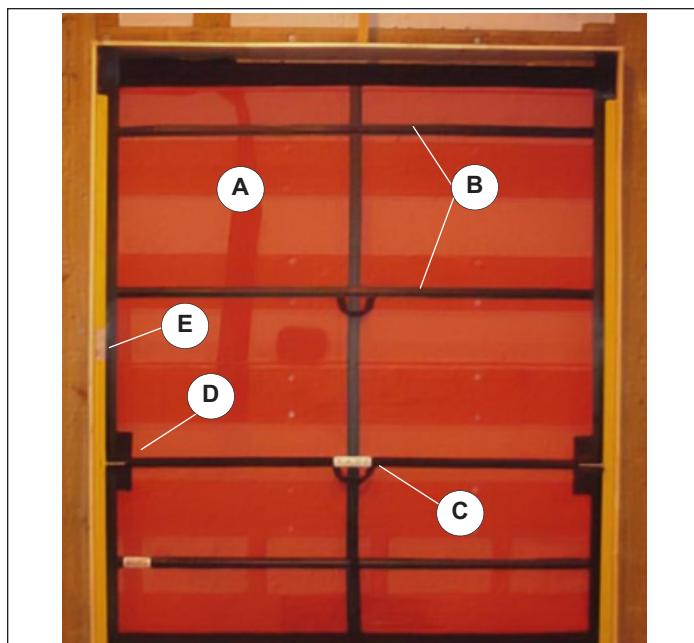


Figure 9.2

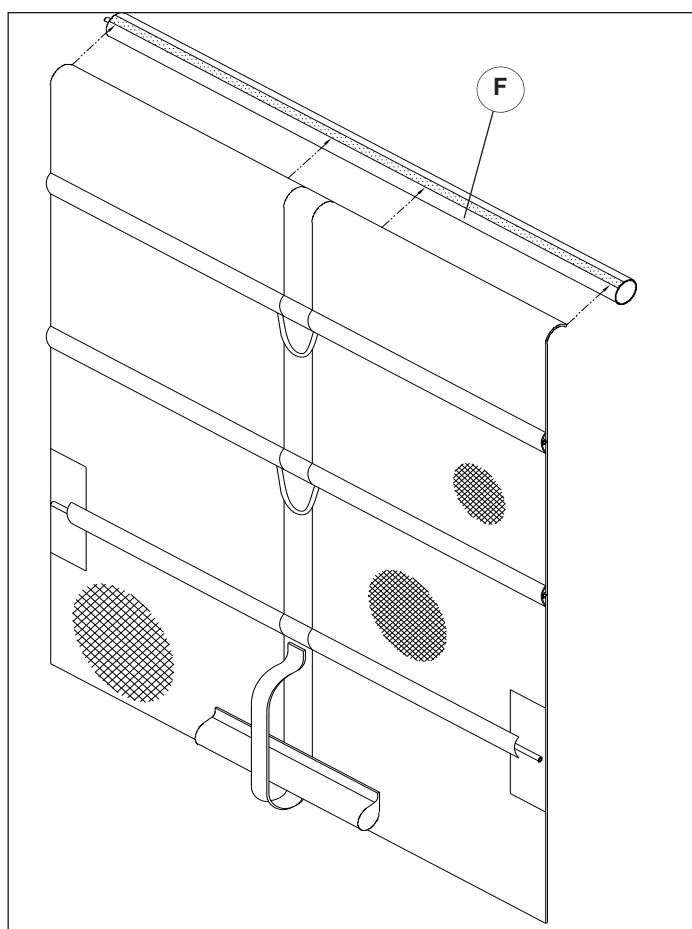


Figure 9.1

4. Run the door fully closed. The limit switch will need to be adjusted to account for the 1 1/2 curtain pre-wraps on the roller tube.
5. Cycle the door and adjust the limit switches until the correct curtain closed and opened positions are attained.
6. For adjustment of limit switches, refer to steps in Adjusting Motor Limits and [Figures 10.1 & 10.2](#).

## NOTES:

*Special care should be taken when installing the curtain onto the roller tube to insure that the curtain hangs straight (F).*

*In-jamb model curtain rolls off the front of the roller tube, face and overhead models roll off the back of the tube.*

Center the curtain on the roller tube and fasten with the hook and loop fastener.

1. Door Opening Width (G).
2. Curtain Width = D.O.W. minus 2" [51] (H).

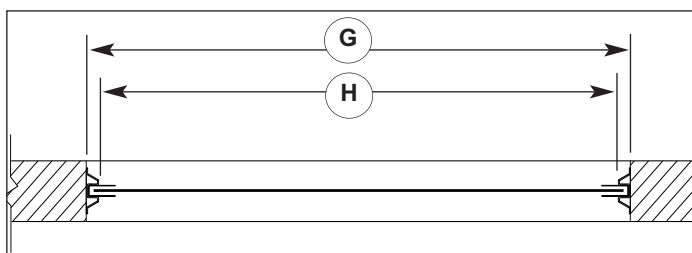


Figure 9.3

# LIMIT SWITCH ADJUSTMENT

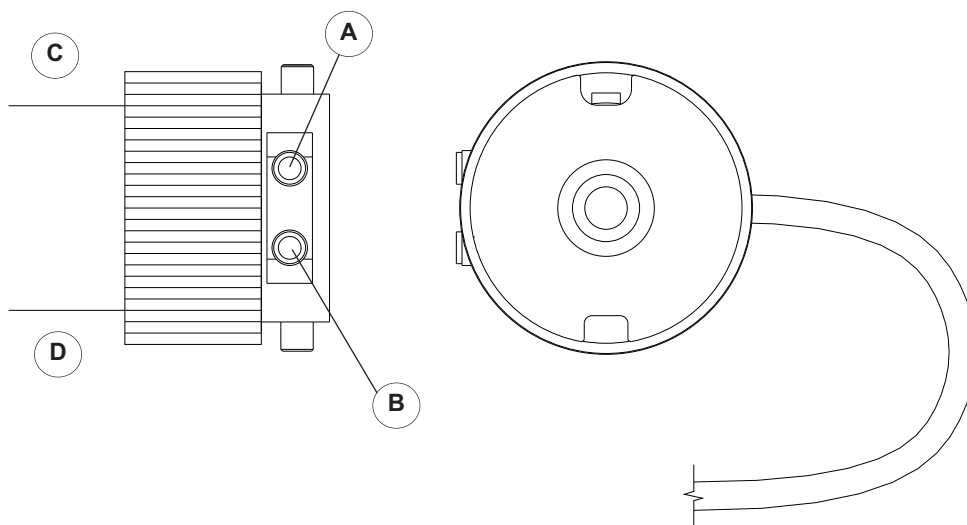


Figure 10.1

## Right Hand View - Bottom looking up

1. Adjust the open limit by running the door to the closed position and prying the curtain away from the limit screws to gain access.
2. If the curtain does not fully open, rotate the open limit screw in the clockwise (+) direction until the door is at the proper elevation.
3. If the curtain overtravels, rotate the open limit screw in the counterclockwise (–) direction until the door is at the proper elevation.
4. To adjust the closed limit, run the curtain down and adjust as shown.
5. If the curtain overtravels, rotate the close limit screw in the counter-clockwise (–) direction until the door is at the proper elevation.
6. If the curtain does not fully close, rotate the close limit screw in the clockwise (+) direction until the door is at the proper elevation.

### Adjustment Screws For Reference:

A = In-Jamb, RH - Open Limit  
 A = In-Jamb, LH - Close Limit  
 A = Face/OH, LH - Open Limit  
 A = Face/OH, RH - Close Limit

B = In-Jamb, RH - Close Limit  
 B = In-Jamb, LH - Open Limit  
 B = Face/OH, LH - Close Limit  
 B = Face/OH, RH - Open Limit

### FRONT SIDE CLOSE DIRECTION

C = In-Jamb, RH Drive  
 C = Face/Overhead, LH Drive

## REAR SIDE CLOSE DIRECTION

D = In-Jamb, LH Drive

D = Face/Overhead, RH Drive

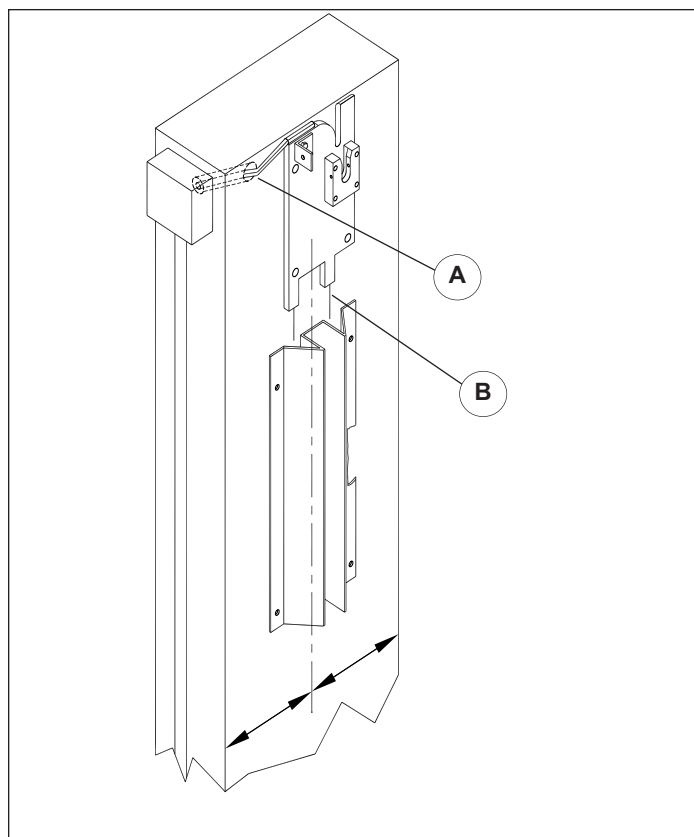
### NOTE:

*If the motor is run for four consecutive minutes a thermal trip may occur. The motor may need to be allowed to cool for one hour or more, depending on door size, temperature.*

LIMIT SWITCH & MOTOR POSITION ADJUSTMENT:			
1.) MOTOR ASSEMBLY IS RECEIVED FROM VENDOR WITH THE LIMITS SET FOR A TOTAL OF 3 TUBE REVOLUTIONS. THE MOTOR WILL BE AT THE HALF WAY POINT, SO IT WILL TURN 1 1/2 REVOLUTIONS EACH WAY.			
2.) BEFORE INSTALLING THE MOTOR IN THE TUBE THE LIMITS MUST BE RESET TO GAIN THE TOTAL NUMBER OF REVOLUTIONS (BASED ON DOOR OPENING HEIGHT) PER THE CHART TO THE RIGHT. ALSO THE MOTOR MUST BE PUT IN THE FULL CLOSE POSITION.			
3.) TURN EACH LIMIT SWITCH KNOB IN THE + DIRECTION THE NUMBER OF TURNS SHOWN IN THE CHART AT THE RIGHT. THIS WILL ALLOW THE TUBE TO TURN APPROXIMATELY THE NUMBER OF REVOLUTIONS AS SHOWN IN THE CHART. THE MOTOR IS STILL AT THE HALF WAY POINT.			
4.) THE MOTOR MUST NOW BE POWERED TO THE FULL CLOSE POSITION TO BE READY FOR INSTALLATION. TURN THE POWER ON, RUN THE TUBE IN THE DIRECTION AS SHOWN IN FIGURE 13. RUN THE MOTOR UNTIL IT STOPS AND REACHES THE CLOSE LIMIT.			
DOOR OPENING HEIGHT	NUMBER OF ADDED TURNS (+ DIRECTION) TO EACH L.S. KNOB	TOTAL NUMBER OF TUBE REVOLUTIONS FROM CLOSE LIMIT TO OPEN LIMIT.	
4'-0"	4	4	
4'-6"	6	4 1/4	
5'-0"	8	4 3/4	
5'-6"	9	5 1/4	
6'-0"	11	5 3/4	
6'-6"	13	6 1/4	
7'-0"	15	6 3/4	
7'-6"	16	7	
8'-0"	18	7 1/2	
8'-6"	20	7 3/4	
9'-0"	22	8 1/4	
9'-6"	24	8 3/4	
10'-0"	25	9 1/4	
10'-6"	26	9 1/2	
11'-0"	28	10	
11'-6"	30	10 1/4	
12'-0"	32	10 3/4	
12'-6"	33	11	
13'-0"	35	11 1/4	
13'-6"	36	11 3/4	
14'-0"	38	12 1/2	

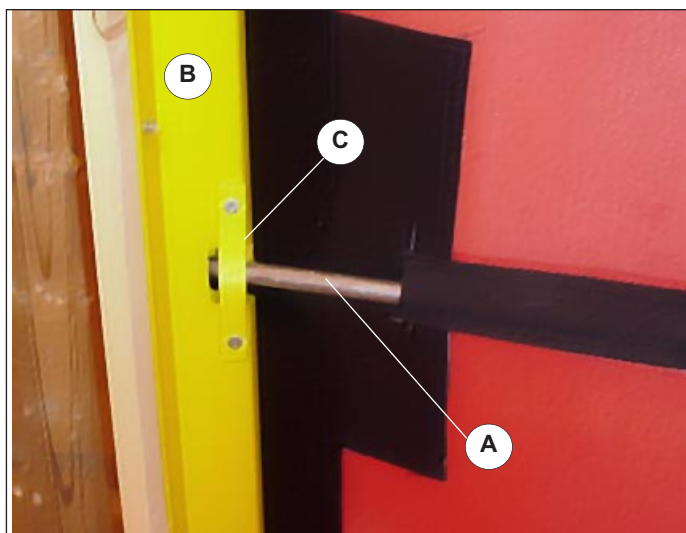
Figure 10.2

# IN-JAMB TRACK INSTALLATION



**Figure 11.1**

1. Route the motor cable (A) through the cable guard and along the groove in the bracket.  
Drill angled hole through wall if needed.
2. Tracks are shipped precut and ready to install. Position the top of the track into the fork legs (B) on the brackets and plumb the track. The track should be fastened securely in place by tek screwing through the outermost flange every 2'-3' [51 - 76].
3. Inspect door jamb for obstructions such as dock seal mounting brackets, bolts. The jamb should be flat the full height of the jamb. If necessary the track flange can be notched using a hacksaw.



**Figure 11.2**

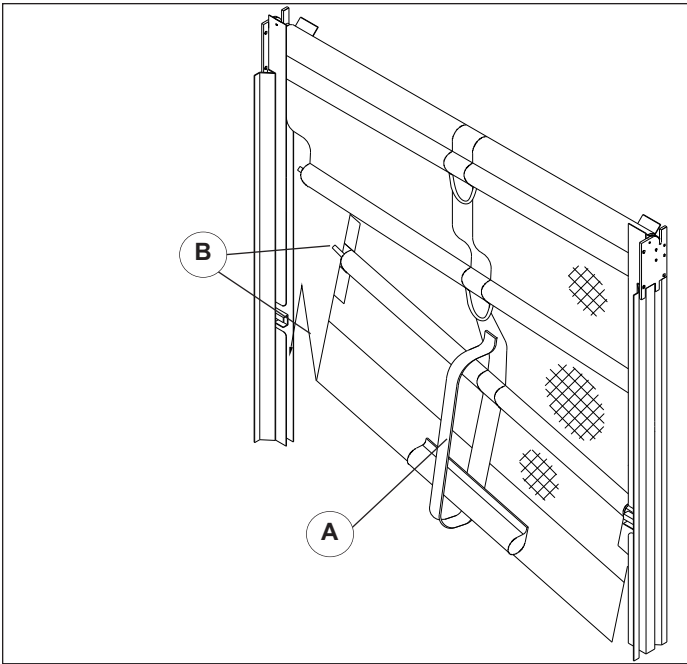
## NOTICE

**Do not notch into vertical U-channel of track.**

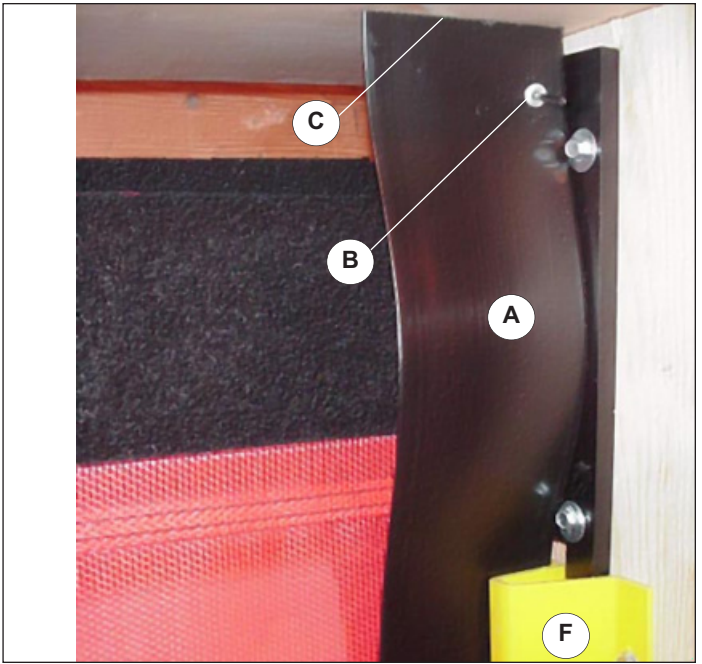
1. If latch bar (A) catches or drags on tracks (B), cut no more than 1" [25] shorter. Grind ends smooth.
2. Verify latch bar properly seats into notch (C) in tracks.

**In-Jamb Motor**

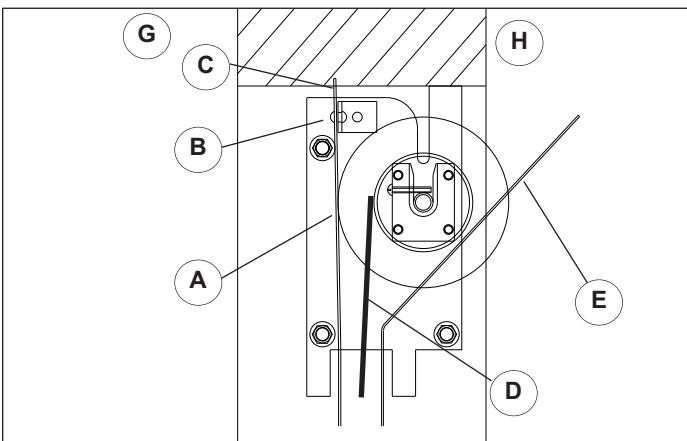
# IN-JAMB TRACK INSTALLATION



**Figure 12.1**



**Figure 12.3**



**Figure 12.2**

1. For manual doors, pull down on the curtain straps (A) and push inward feed the curtain into the track and to lock the latch bar (B).

For power doors, rotate the switch in the close direction until it reaches the closed limit.

1. Keep front insert (A) as tight against jamb as possible, so minimal or no light is visible.
2. An angle (B) is fastened to the mounting brackets to attach the insert. Pop rivet in place.
3. Trim the top of the insert if necessary (flush with the jamb) and pop rivet the insert to the mounting angle. (C).

D - Curtain

E - Rear insert

F - Lower track

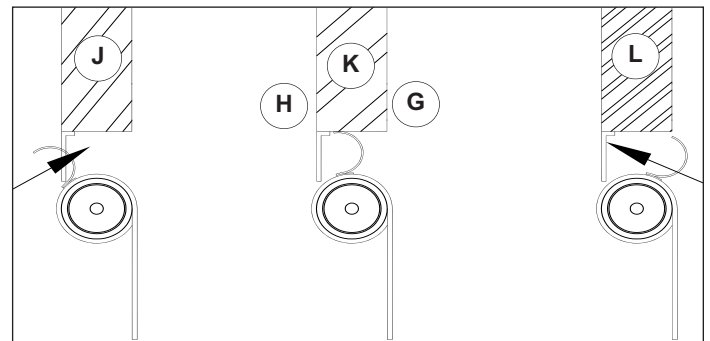
G - Inside

H - Outside

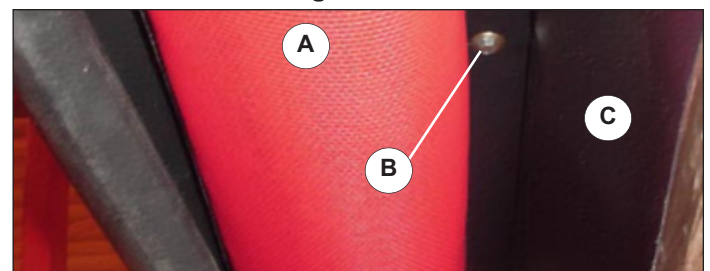
J - Rotate Clockwise

K - Correct position

L - Rotate Counter-Clockwise



**Figure 12.4**



**Figure 12.5**

1. Install the lintel seal (C) (In-Jamb only-left hand view shown) at the outer edge of the jamb. Attach the seal on one side by putting a screw through the grommet hole.
2. Stretch the fabric (A) to seal any gaps and fasten.
3. Place screws (B) in the remaining grommet holes to insure the seal is tight with the lintel and does not sag.

## TURN-TITE SEAL ADJUSTMENT

1. Place the curtain in the closed position, place the seal on the curtain and adjust the seal to give the best possible seal to the doorway. Trim as required.
2. Cycle the door several times to see how the seal performs. If after the seal is positioned correctly and is still interfering with the door operation, adjust on the hook and loop fastener.

# FACE MOUNT INSTALLATION

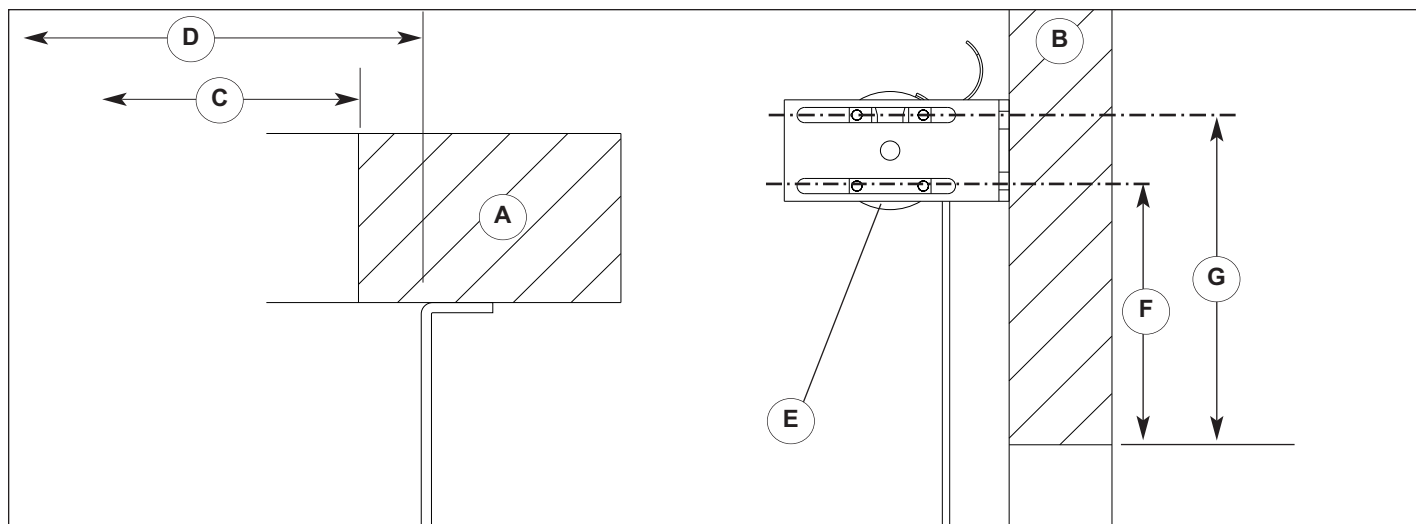


Figure 13.1

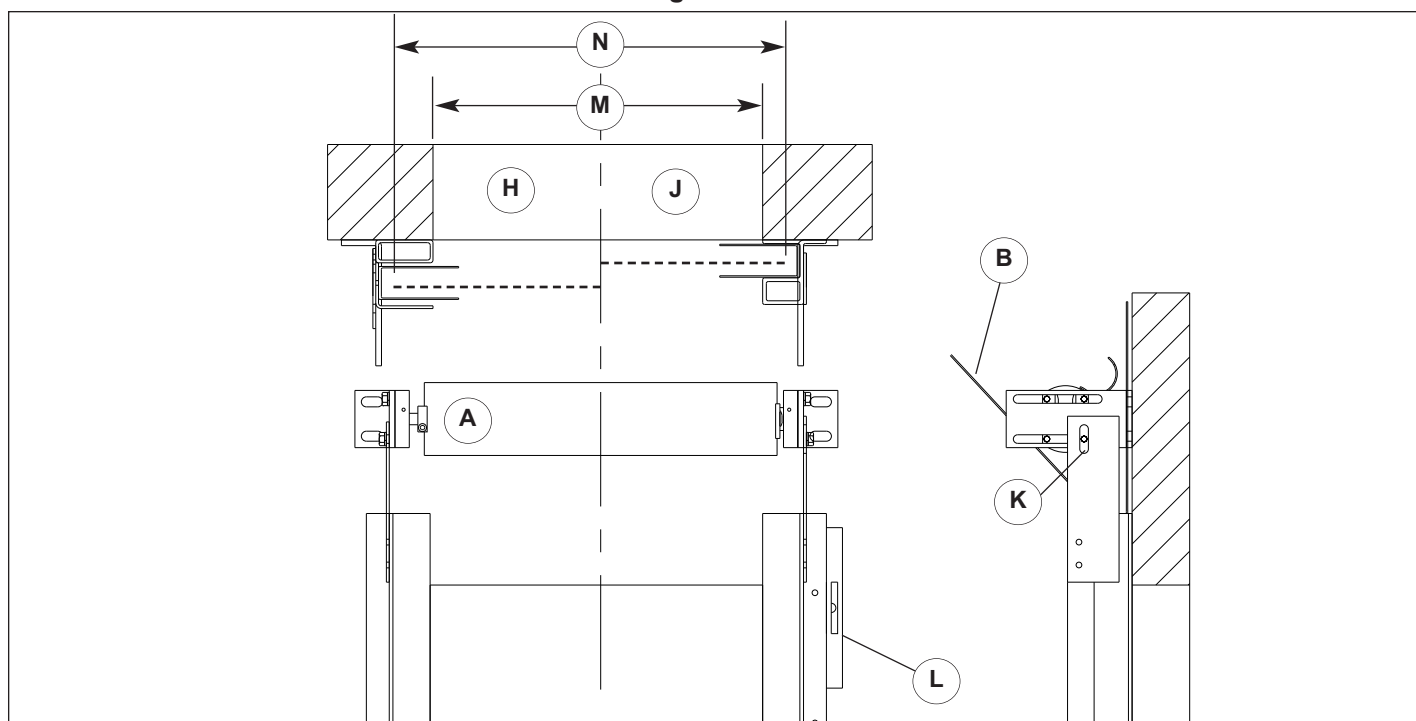


Figure 13.2

**NOTE:**

See [Page 3](#) for general installation instructions.

Refer throughout the manual for other instructions, including: *adjusting limits, TURN-TITE seal and insert bracket.*

A = Top View

B = Side View

C = 1/2 O.D.W.

D = Steel (H) = 1/2 O.D.W. + 2 1/4" [57].

D = PVC (J) = 1/2 O.D.W. + 1 1/2" [38].

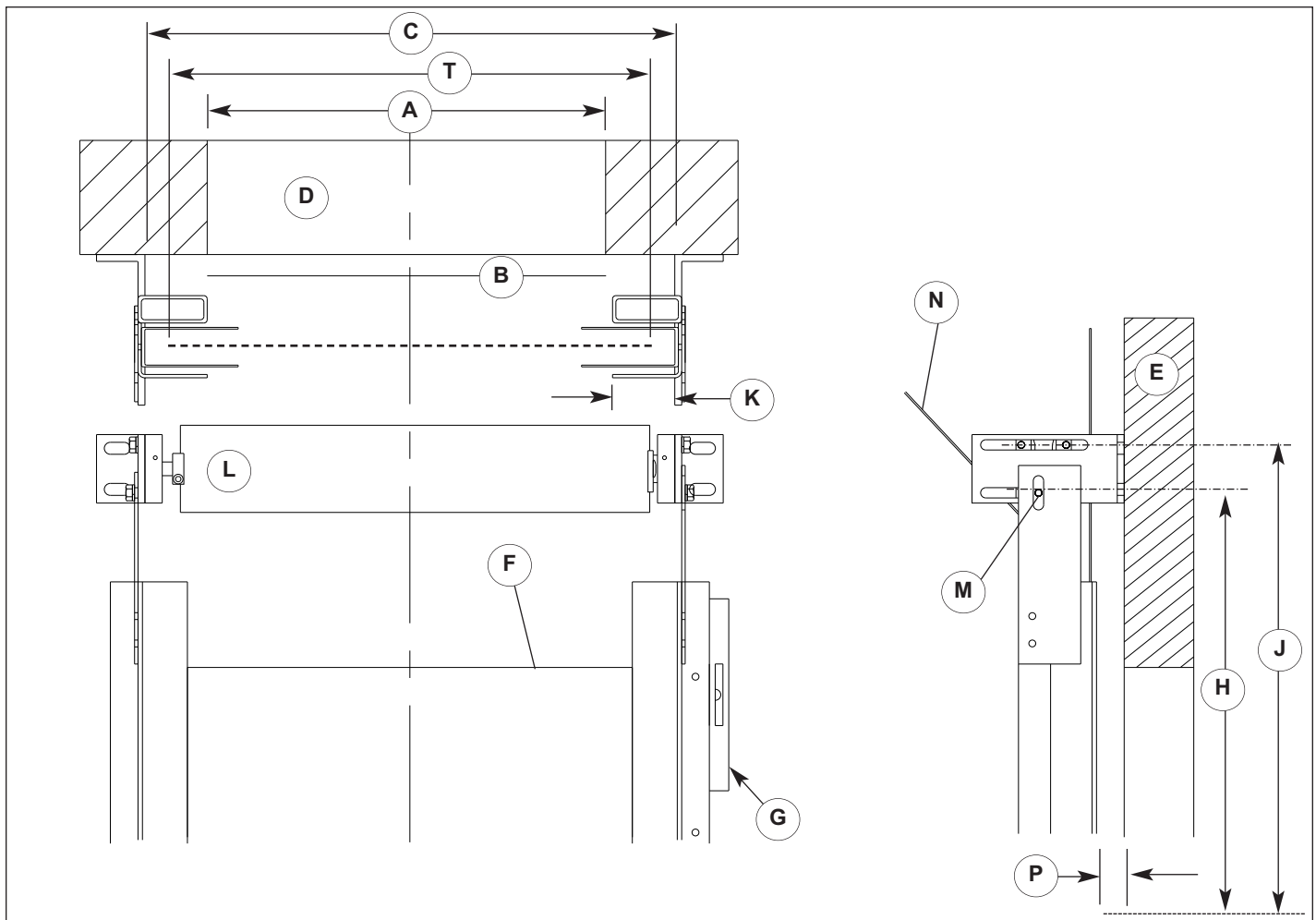
M = Door Opening Width

N = Curtain Width = D.O.W. + 2" [51].

1. The drive and idle mounting brackets (E) are pre-installed at the factory onto the brackets. Remove the lower inside bolt and attach the brackets to the tracks (K). Level (L) and mount bracket/track assembly to the jamb.
2. Verify that the door opening height is correct. Measure from the high side of the jamb to locate the first bracket. The bracket will need to be mounted at D.O.H. plus 6 1/2" [165] (F) up from the floor to centerline of the bottom mounting hole and D.O.H. plus 8" [203] (G) up to centerline of the top hole. Shim so brackets are parallel to each other.
3. Spring (A) is on the left hand side for manual face/overhead models. Powered unit may be either right or left. Refer to In-Jamb instructions for installation, [Pages 6 - 8](#).
4. Curtain rolls off the back (B) of the tube. Insert will need to be pulled under roller tube to install curtain.



# OVER-HEAD MOUNT INSTALLATION



**Figure 14.1**

A = Dimension A (Door Opening Width)  
 B = Overhead Door  
 C = Dimension C  
 D = Top View  
 E = Side View  
 F = Door Opening Height  
 G = Level  
 H = O.D.H. Plus 6 1/2" [165]  
 J = O.D.H. Plus 8" [203]  
 K = 2 1/2" [64]  
 T = Curtain Width = D.O.W. + 2" [51]

**Taken from Survey form.**

**If Dim C - 5" < Dim A, door is built to Dim A.**

**If C-5" => Dim A, door will be built to Dim C - 5".**

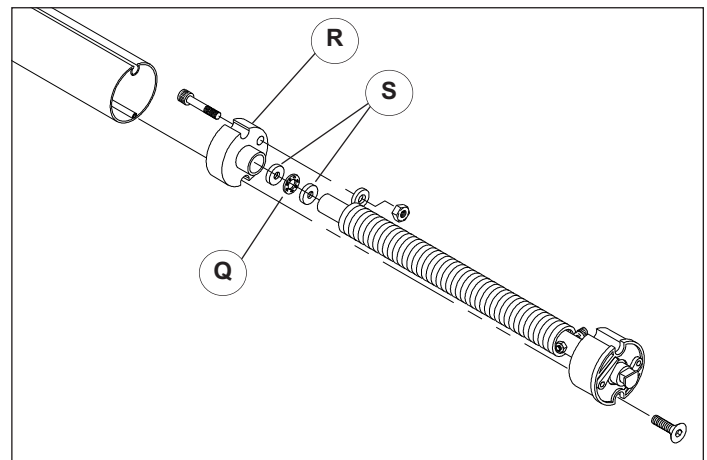
**NOTE:**

See [Page 3](#) for general installation instructions.

Refer throughout the manual for other instructions, including: adjusting limits, TURN-TITE seal and insert bracket.

1. Spring (L) is on the left hand side for manual face/overhead models. Powered unit may be either right or left. Refer to In-Jamb instructions for installation, [Pages 6 - 8](#).

2. Remove the lower inside bolt (M) and attach the brackets to the tracks loosely to allow for adjustment away from the over-head door. Level and mount bracket/track assembly to the jamb.
3. Curtain rolls off the back of the tube (N). Insert will need to be pulled under roller tube to install curtain.
4. Adjust to go around over-head door tracks (P).



**Figure 14.2**

1. Replace thrust bearing (Q) if door is hard to raise, lower or is binding up.
2. Hub (R) and Flat Washers (S).

# OVER-HEAD MOUNT INSTALLATION

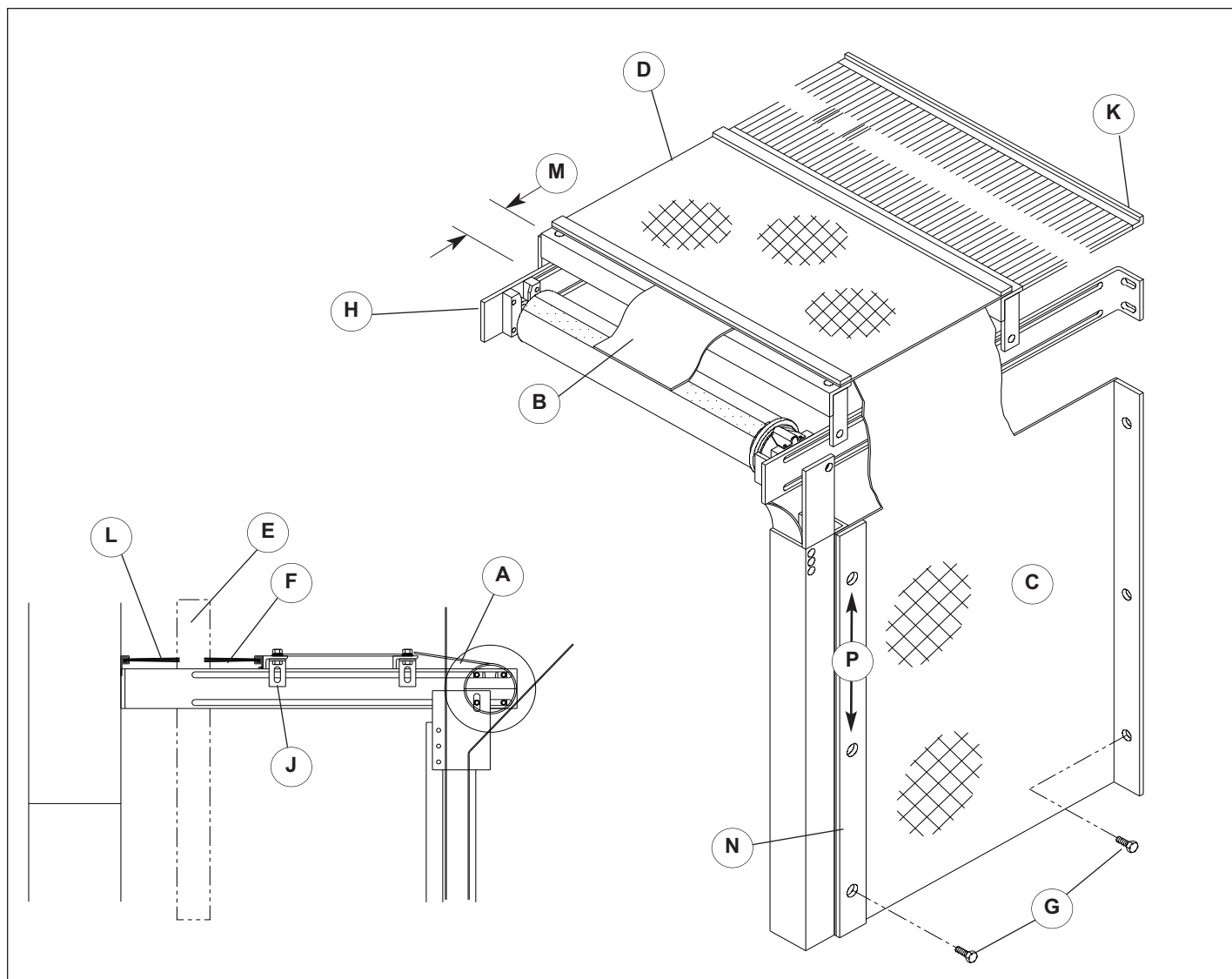


Figure 15.1

## BRUSH AND SEAL INSTALLATION

A = Turn-Tite Seal

B = Turn Tite Seal Section

C = Side Filler Panel

D = Top Filler Panel

E = Sectional Door

F = Front Brush Seal

G = Screws

1. If the overhead model door is equipped with 24" (H) or greater wall mount brackets, install horizontal filler panel.
2. Bolt front brush seal (J) to wall-mounting brackets with the angle and hardware provided. Adjust using the slots to assure brush seals against overhead door.
3. Mount the rear track (K) at the same elevation as the front track, using the brush track (L) provided to

anchor to the wall jamb. Brush seals may need to be mounted higher if the overhead door is tight to the wall and friction is a problem.

4. If gap is too large (M) roll stop may fall through and not stop the door. Also turn-tite seal (B) may not seal properly.
5. To mount filler panel (N), place pressure plate in filler panel pocket and fasten every 12" - 18" [305-457] (P) to the track, making sure the panel is tight and straight.
6. Stretch the filler panel over to the wall, and using the pressure plate fasten (G) to the wall. Trim any excess material that is left hanging over.

# OPERATING PROCEDURE



## DANGER !!!

**When working with electrical or electronic controls, make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.**

1. It is the responsibility of the electrician to be sure all local, state, and national electrical codes are met. *Codes may require the power cable to be run in rigid conduit.*
2. **All connections to the junction box must be through the bottom or side of the enclosure.**
3. It is the responsibility of the buyer to provide electrical service up to the junction box with proper branch service protection and an approved means of disconnect.
4. The junction box is provided with class CC protective fusing for the incoming power.
5. The incoming power terminals in the junction box will not accommodate wires larger than 10AWG.
6. Mount the open/close switch on a wall adjacent to the door approximately 54" [1372] above the floor level.
7. The cable is provided from the junction box to the switch, so mount junction box within 8' [2438] of the motor. Wire per schematic shown, [Page 19](#).

## SHEET METAL HOOD INSTALLATION (EXTERIOR FACE MOUNT ONLY)

1. If no seal or shelter product is covering your exterior mounted Bugshield, a sheet metal hood should be installed to keep the Bugshield free of rain, snow, and the outside environment.
2. To mount hood, place on exterior surface of building, using the steel braces provided.

## OPERATING PROCEDURE

1. If the door is power operated, turn the knob on the switch in the desired open or closed direction.
2. If the door is manually operated and is in the closed position, grab the center latch bar handle, pull down slightly until the latch bar is out of the locked position and allow the door to raise while hanging onto the pull down strap until it reaches the open position.
3. If the door is in the open position, grab the pull down strap and pull down until the latch bar can be fed into the locked position on the tracks.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

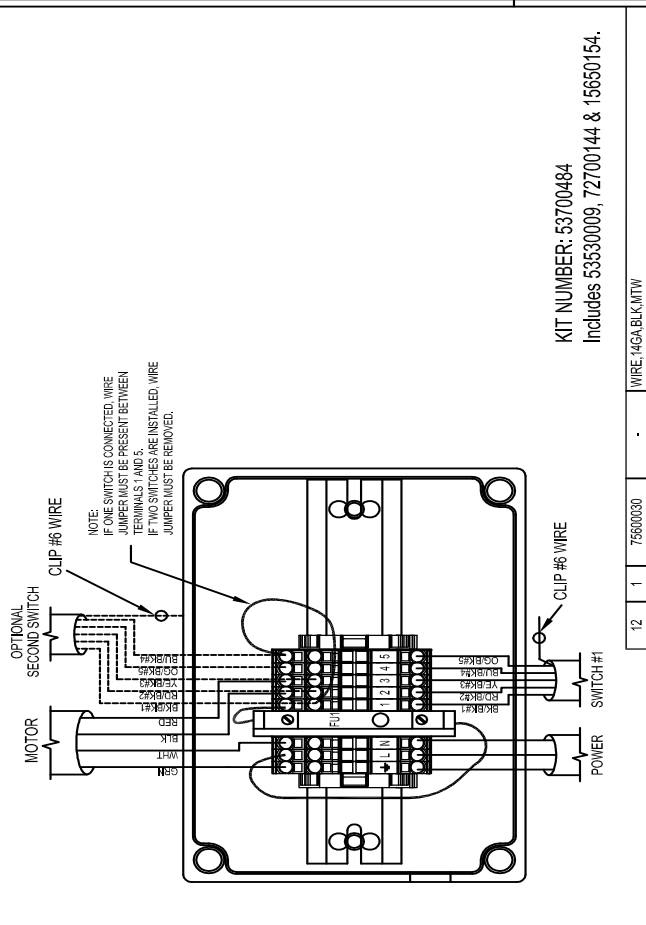
# MAINTENANCE / TROUBLESHOOTING



RITE-HITE DOORS® PLANNED MAINTENANCE Model 5700 BUGSHIELD™										
CUSTOMER:										
RHC#		SERIAL#						DATE:		
Periodic Check: Planned Maintenance		Recommended P.M. Intervals (Time Shown In Months)						Inspect and Perform the Following (See Manual)		
		1	4	8	12	18	24			30
Curtain			•		•		•		•	Clean, perform visual inspection, look for tears.
Inserts			•		•		•		•	Inspect for wear and replace as necessary.
Limit Switches (powered only)		•	•		•	•	•		•	Check open and close positions.
Lintel Seal			•		•		•		•	Perform visual inspection.
Motor		•	•		•	•	•		•	Run door.
Non - Drive Bearing					•		•		•	Inspect for wear or binding.
Spring					•		•		•	Test for ease of open and close. Lubricate.
Switch - Junction Box			•		•		•		•	Clean and check wire connections (with power off).
Tracks/Roller			•		•		•		•	Perform visual inspection, check for proper width dimension and tighten all bolts.
Turn - Tite Seal					•		•		•	Adjust as required in the closed position.
Windbars			•		•	•	•		•	Remove and straighten if required.

DEFINITION	FUNCTION
Curtain	If the curtain becomes wedged or caught in the tracks, the FU1 fuse may blow due to over current. Make sure the curtain is centered on the roller tube and tracks straight when rolling up or down. If the roller tube is not level the curtain will telescope and bind. If the curtain is blowing out of the tracks, check to make sure the tracks are not mounted too far apart. If the tracks are mounted too wide, the door will continue to blow out from the wind and the latch bar may not hold the curtain in place. Move tracks in to the correct distance per track installation instructions. To place curtain back into the tracks, insert one side of the curtain into the track and lift the other side up and slide into tracks.
Filler Panel (Overhead model only)	The Overhead model is equipped with a side filler panel, that seals from the door track to the wall. Fasten the filler panel to the track with screws and then fasten to the wall using the pressure plates provided. Make sure panel is taught.
FU1 Fuse (Power model only)	The FU1 Fuse protects motor damage from over voltage or high amp draw. Check wires for shorts or loose connections if the fuse is blowing. Check that curtain is not getting caught in tracks. The J-Box has a 6 Amp 600V CC time delayed fuse to protect the motor.
High Wind Condition	The BugShield door should not be operated in a high wind condition as it may blow out of the tracks and cause damage.
Junction Box (Power model only)	The Junction Box is standard on power operated doors and is supplied with an 8' cord that runs from the J-Box to the Open/Close switch. The Junction box has terminals for incoming power, motor leads, and the open/close switch. The J-Box has a 6 Amp 600V CC time delayed fuse to protect the motor.
Limit Switches (Power model only)	The limits are adjusted by turning the limit switch screws located on the end of the underside of the motor. <b>DO NOT</b> adjust the limit switches too far that they start to click. Turn no more than 24 revolutions in any one direction as the limit nut will be run off the lead screw and start to click. When this happens the door will continue to run in the same direction and not stop until a thermal trip occurs. When this occurs, the motor either needs to be replaced or taken apart and fixed. See <a href="#">Page 10</a> for limit switch adjustment procedures.
Lintel Seal (In-Jamb model only)	The Lintel seal is attached to the jamb header, keeps the wind from blowing the Turn-Tite seal and prevents birds from building nests on the roller tube when the door is in the stored position.
Motor (Power model only)	The motor is 110VAC single phase. The motor is encased inside the roller tube and is equipped with limit switches for open, closed positions and a 8' [2438] power cord. If the motor is run for an extended period of time, the motor will heat up and a thermal trip will occur. The motor will need some time to allow the thermal sensor to cool down. Time may vary depending on door size and temperature. If the motor is running in the reverse direction, switch the wiring for the open/close button, per Bugshield electrical drawing. Motor draws 4.2 service amps.
Open/Close Switch (Power only)	The open/close switch is a constant pressure switch that is used to open and close the door. If the switch is released during door travel, the door will stop immediately and the direction can be continued or reversed.
Roller Tube	The roller tube is equipped with an adjustable non-drive shaft. To adjust, loosen the allen head screw and slide the shaft in or out to the correct length and tighten the allen head screw.
Spring (Manual model only)	The correct number of turns on the spring is located on the label on the roller tube. If the door is hard to lift, make sure the curtain slides freely in the tracks and around the roller tube. If the door is still hard to lift, increase spring tension. Make sure to oil or grease spring to reduce friction on the coils.
Turn-Tite Seal	The Turn-Tite seal must be trimmed in the field to accommodate the jamb. Fasten to the curtain using the hook and loop fastener. The Turn-Tite seal covers the gap between the roller tube and the jamb.



NEXT ASSEMBLY	
Volts	110
Service Amps	10
Motor Power	420W

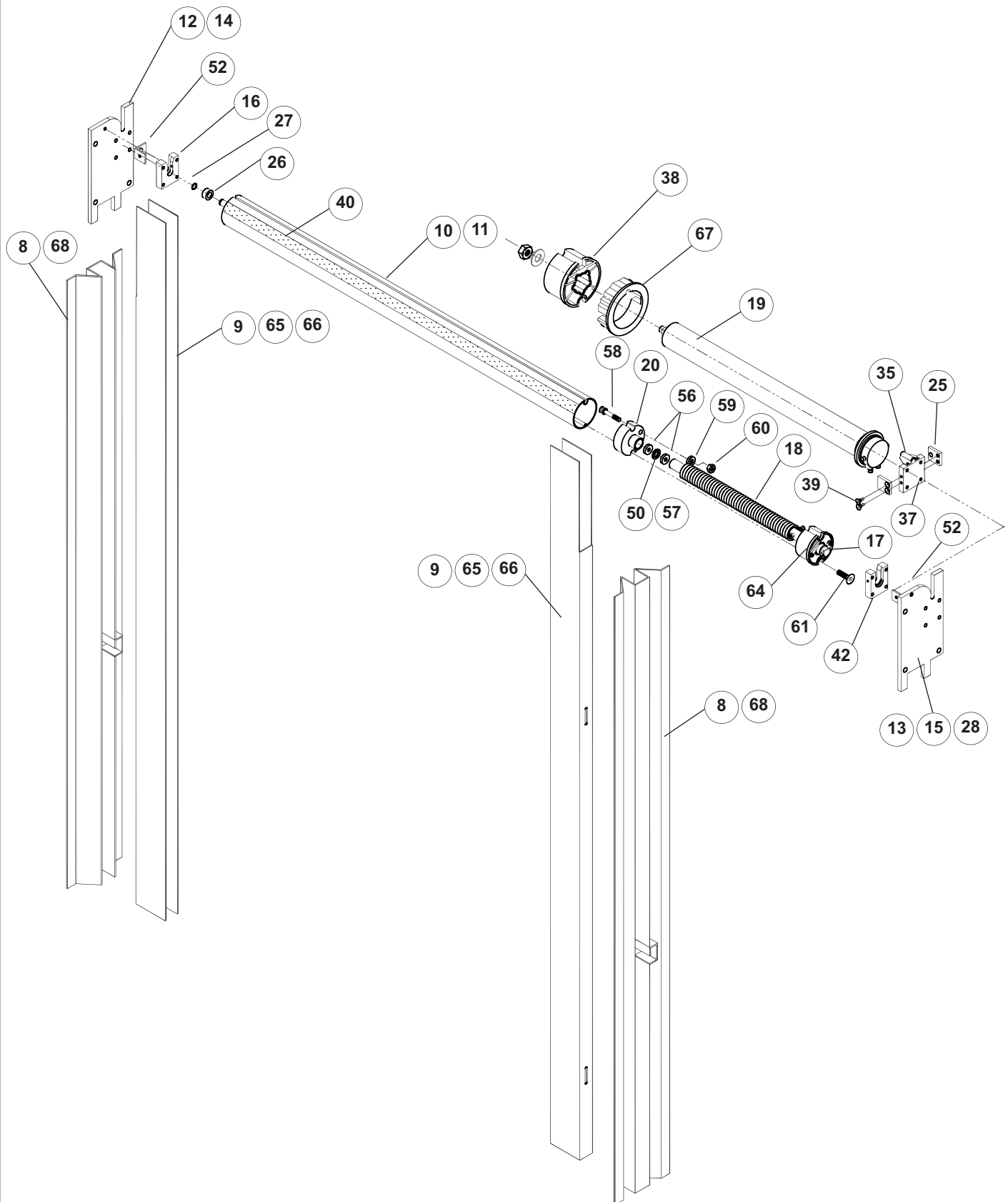


ITEM		QTY	PART NO.	DWG. NO.	DESCRIPTION
PARTS LIST / MATERIAL					
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MM-DD-YY			TITLE		
DRAWN BY			DATE		
CHECKED BY			DATE		
APPROVED BY			DATE		
INITIAL ECH			115VAC 1Ø		
FINISH			SIZE		
DATE ISSUED			MODEL NUMBER		
REF			DWG NO		
			B 5700		
			9804E001		
			SCALE		
			6"=1'		
			PART #		
			53530009		
			SHEET		
			1		

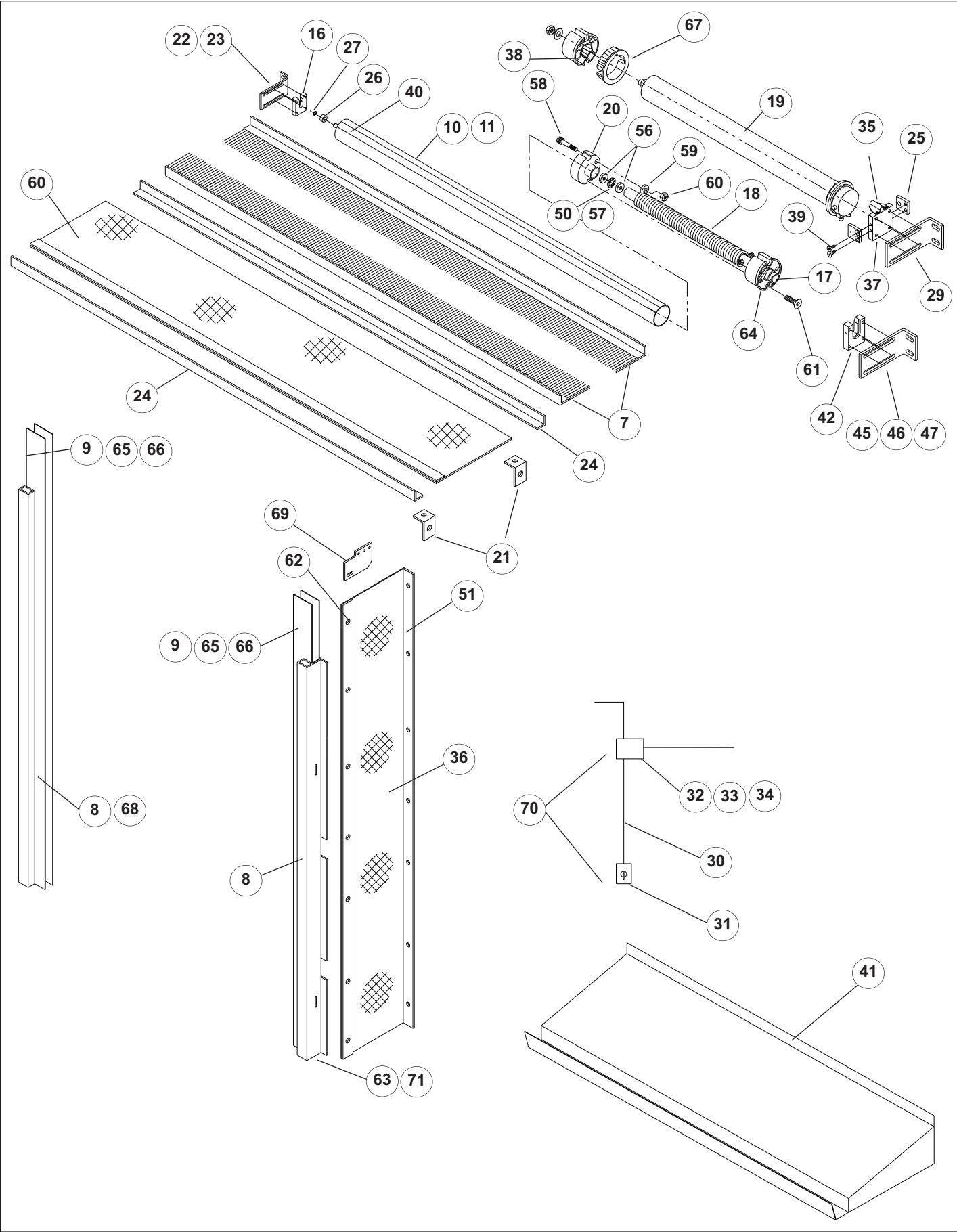
## Troubleshooting Electrical Drawing

# IN-JAMB FRAME SERVICE PARTS

NOT SHOWN: 41,68



# FACE & OVERHEAD SERVICE PARTS

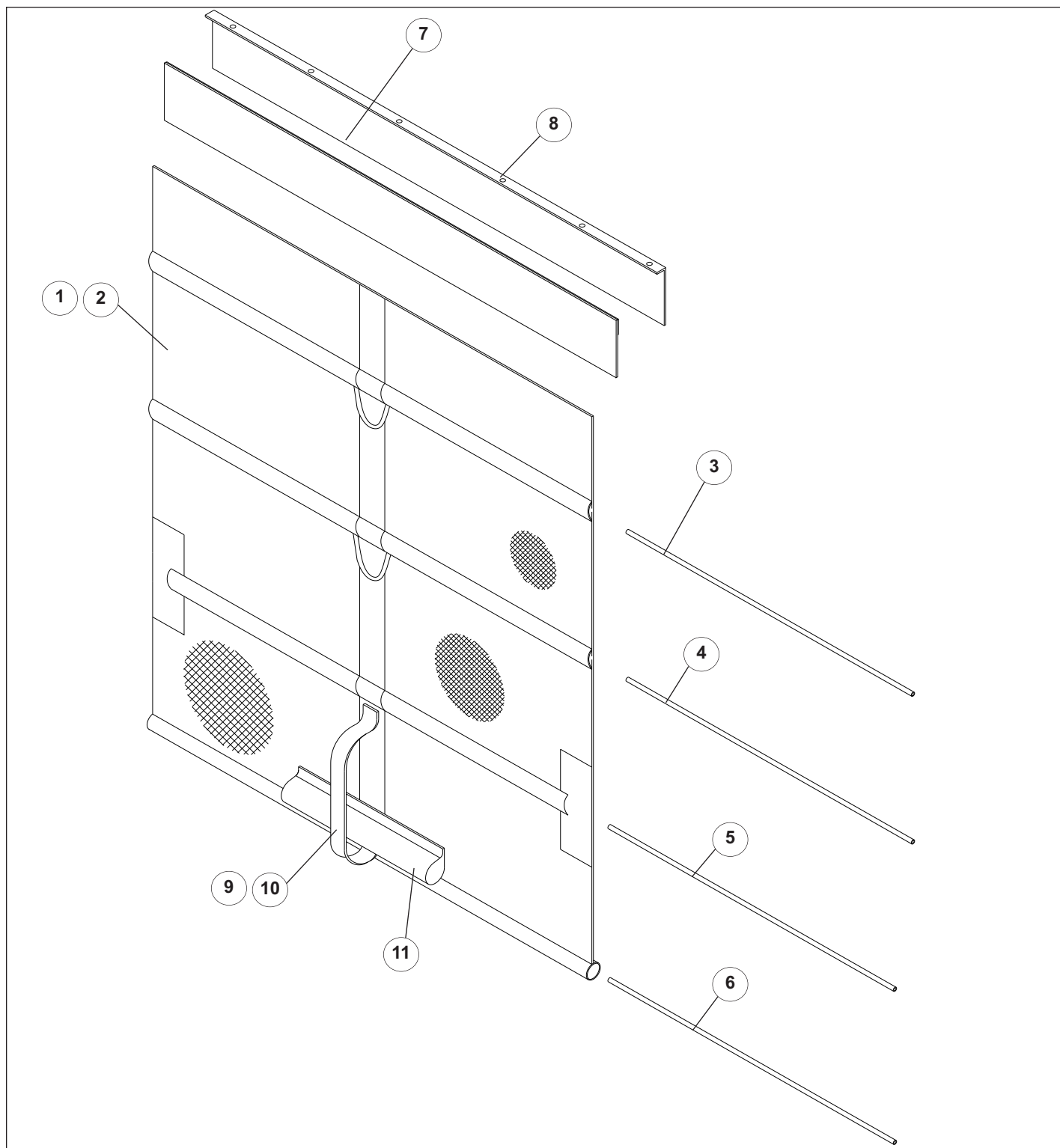


Exploded Parts List

# SERVICE PARTS LIST

ITEM	QTY	DESCRIPTION	P/N	ITEM	QTY	DESCRIPTION	P/N
7	1	Seal, Ass'y, Brush (Overhead Only)	6850....	40	A/R	2" Hook PSA (Touch and Hold Fastener)	74000020
8	1	Track Assembly	7351....	41	1	Sheet Metal Hood	5283....
9	2	Track Insert, (part of track with hardware)	5310....	42	1	Bracket, Mount, Manual Drive	14500208
10	1	Roller Tube Weldment	6730....	43	1	Kit, Electrical (includes J-box, switch & cable)	53700104
11	1	Roller Tube Ass'y, Manual w / spring	6731....	44	1	Kit, 5700, Patch, 10x10 Mesh, Black	53700574
11	1	Roller Tube Ass'y, Power w / motor	6731....	44	1	Kit, 5700, Patch, 20x30 Mesh, Black	53700575
12	1	Kit, Bracket, In-Jamb, Manual and Power Idle	53700087	44	1	Kit, 5700, Patch, 20x30 Mesh, Grey	53700576
13	1	Kit, Bracket, In-Jamb, Manual Drive	53700082	44	1	Kit, 5700, Patch, 17x11 Mesh, Grey	53700577
14	1	Kit, Bracket, In-Jamb, Narrow (Manual/Power Idle)	53700088	44	1	Kit, 5700, Patch, 17x11 Mesh, Green	53700578
15	1	Kit, Bracket, Narrow In-Jamb, Manual Drive	53700083	44	1	Kit, 5700, Patch, 17x11 Mesh, Red	53700579
16	1	Bracket, Mount Idle	14500249	44	1	Kit, 5700, Patch, 17x11 Mesh, Blue	53700580
17	1	Shaft, Spring Drive	68950096	44	1	Kit, 5700, Patch, 17x11 Mesh, Yellow	53700581
18	1	Spring Ass'y, > 3' 6" to <= 5' 6" - 22"	53700069	45	1	Kit, Bracket, Face, Manual Drive	53700079
18	1	Spring Ass'y, > 5' 6" to <= 7' 10" - 44"	53700070	46	1	Kit, Bracket, Overhead, 16" Manual Drive	53700080
18	1	Spring Ass'y, > 7' 10" and Over - 67"	53700071	47	1	Kit, Bracket, Overhead, 24" Manual Drive	53700081
19	1	Motor x 120V Kit	53700409	48	-		
20	1	Adapter, Drive Side, Manual	10300006	49	-		
21	2/4	Bracket, Brush Seal Mounting (2-Overhead Only, 4 if Dim "J" > 10.5")	14500107	50	1	Kit, Thrust Bearing for Roller Tube Spring (manual doors only)	53700308
22	1	Kit, Bracket, Face Idle 5.5 (Includes #16)	53700084	51	a/r	Pressure Strip 1/8" x 1" x 8" (OH mount only)	10120001
23	1	Kit, Bracket, Overhead, 16", Idle (Incls #16)	53700085	52	2	Insert Bracket Mount (In-Jamb only)	14500219
23	1	Kit, Bracket, Overhead, 24", Idle (Incls #16)	53700086	53	-		
24	1	Bracket, Brush Seal	1453....	54	1	Flat Washer-Bronze	74160007
25	2	Tab, Motor Mounting (Powered Only)	72740025	55	-		
26	1	Bearing, Ball, 1/2" x 1-1/8" x 3/8"	12500012	56	2	Washer, Flat, .50 x .88	74150014
27	1	Ring, Spiral Retaining, 1/2"	67020025	57	1	Thrust Bearing 1/2" ID x 7/8" OD	12500024
28	1	Kit, Bracket, In-Jamb, Power (Drive)	53700092	58	1	Screw SHCS, 1/4-20 x 1 1/2" Gr 8	67860005
28	1	Kit, Bracket, Narrow In-Jamb, Power (Drive)	53700093	59	1	Washer Flat, 1/4" x 3/4" x 1/16"	74110001
29	1	Kit, Bracket, Face, Power	53700089	60	1	Top Filler Panel (Dim "J" > 10.5" only)	6346....
29	1	Kit, Bracket, Overhead, Power, 16"	53700090	61	1	Screw, FHMS, Socket, 5/16-18 x 1" Self Locking	67870093
29	1	Kit, Bracket, Overhead, Power, 24"	53700091	62	a/r	Tek Screw w/Washer	67850113
30	a/r	Cable, 16/7, PVC Jacket	15650154	63	2	Bracket, Floor, FC/OH, 5700	14500222
31	1	Switch, Cam, with Enclosure	72700144	64	1	Kit, Hub Drive (includes hub, catches & hdw)	53700392
32	1	Junction Box Assembly	53530009	65	1/1	Kit, 5700, Insert, < 10' W/HDW	53700105
33	1	Fuse, 6.25 AMP, 250V, 3AG, Time Delay	51000017	66	1/1	Kit, 5700, Insert, > 10' W/HDW	53700106
34	1	Fuse, Holder	51000019	67	1	Bushing, Tube Support	15550053
35	1	Guard, Cable (Powered Only)	51300015	68	a/r	Wind Support Kit (not shown)	53700423
36	1	Filler Panel (Overhead Only)	6346....	69	a/r	Plate, Top,F/OH,Steel Track	65000138
37	1	Plate, Motor Mount	65000144	70	1	Kit, Switch, JBox, Cable, 5700	53700484
38	1	Wheel, Drive	75550014	71	a/r	Rivet, 2pc, LF, 1/4 x 1 3/8" GRP, BLK, BLM	66860005
39	4	Screw, Flathead Allen, 1/4-20 x 3/4"	67860069				

# CURTAIN SERVICE PARTS



ITEM	QTY	DESCRIPTION	P/N	ITEM	QTY	DESCRIPTION	P/N
1	1	Curtain, Fabricated without windbars	2830....	8	1	Seal, Lintel, In-Jamb Only	6847....
2	1	Curtain, Assembled with Windbars	2831....	9	1	Handle, Long 45 1/2"	53700109
3	a/r	Pipe, Wind Bar Small	6442....			For manual doors D.O.H. =>9'-0"	
		Face, O/H = O.D.W. + 7/8"		10	1	Handle, Long 35 1/2"	53700108
		In Jamb = O.D.W. - 3 1/8")				For manual doors D.O.H. <9'-0"	
4	a/r	*Pipe, Wind Bar Large	6442....	11	1	Curtain, Roll Stop, Manual Only	72050007
		Face, O/H = O.D.W. + 1 3/8"				Must Include P/N 53700040 (8)	
		In Jamb = O.D.W. - 2 5/8")					
5	1	Pipe, Latchbar, Manual Only	6443....	* Large Wind Bars are used for Power Operated => 10'-3" Height & Width			
6	1	Pipe, Bottom Bar	6445....				
7	1	Seal, TURN-TITE	6846....				



IN-JAMB MOUNT ARCHITECTURAL

REVISION HISTORY

REV	DESCRIPTION	ECN	DATE	BY	APPROVED
F	20x20 weave, gray was 30x20	5709	8/21/2008	CGR	
G	REMOVE 20x20 GREY SCREEN MAT'L	6405	11/4/2011	RJK	
E	Chg weave size from 12x8 to 10x1	4876	10/7/2005	NDS	

6 1/2" STEEL

6 1/16" PVC

SEE ENLARGED VIEW

3 3/4"

1 13/16"

JUNCTION BOX SIZE: 5" X 5"

MUST BE LOCATED WITHIN 8' OF MOTOR.

11" TO BOTTOM OF FULL OPEN DOOR

DOOR LATCH

DOOR OPENING HEIGHT

DOOR OPENING HEIGHT MINUS 9"

3'-3"

DOOR OPENING WINSETS

DOOR OPENING WIDTH MINUS 7 1/2"

DOOR OPENING WIDTH

ROTARY CAM SWITCH

DOOR LATCH

MANUAL DOORS ONLY

DOOR OPENING HEIGHT

DOOR OPENING HEIGHT MINUS 9"

3'-3"

MINIMUM SIZE: 4' X 8'-6" POWERED & 4' X 7' MANUAL

MAXIMUM SIZE: 14' X 14' POWERED & 10'-3" X 11'-2" MANUAL

SCREEN MATERIAL: ☐ STD - 17 X 11 WEAVE, .025" THREAD Ø YELLOW, RED, BLUE, GRAY

☐ OPT - IN .013" THREAD Ø 20 X 30 WEAVE, BLACK

☐ OPT - 10 X 10 WEAVE, .028" THREAD Ø BLACK

DRIVE SYSTEM: POWERED: ☐ TUBULAR MOTOR WITH GEAR HEAD, FREE FALL BRAKE PROTECTION, AND ROTARY LIMIT SWITCHES.

THE MOTOR IS CONTAINED WITHIN THE ROLL TUBE AND DRIVES THE ROLL TUBE WITH AN INTEGRAL KEY.

CONTROLS: 120 VOLT AC, SINGLE PHASE, 60 HZ. CONSTANT CONTACT ROTARY CAM SWITCH, RATED NEMA 4X.

MANUAL: ☐ TORSIONAL SPRING IN THE TUBE.

ROLLER TUBE: 3" Ø ALUMINUM TUBE.

TRACK OPTIONS: ☐ 6 1/16" WIDE RIGID PVC

☐ HEAVY-DUTY 6 1/2" X 12 GA. (.1046) STEEL.

ARCHITECTURAL APPROVAL

IN-JAMB MODEL BUGSHIELD

SIZE MODEL NUMBER

B 5700 9804A001

DATE ISSUED

REF

DO NOT SCALE DRAWING

MM-DD-YY

DATE

10/24/1997

INCH TOLERANCES

OVER UP TO +/-

0 0.125 0.005

0.125 0.25 0.010

0.25 1.25 0.020

1.25 6 0.030

6 15 0.040

15 40 0.060

40 80 0.100

80 INCHES +/- 1/8"

FINISH

APPROVED

☐ YES ☐ NO ☐ AS SHOWN

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

©1999 RITE-HITE DOORS INC.

REVISION HISTORY

ITEM	QTY	PART NO.	DESCRIPTION
PARTS LIST / MATERIAL			
RITE-HITE DOORS INC.			
ARCHITECTURAL APPROVAL			
IN-JAMB MODEL BUGSHIELD			
SIZE MODEL NUMBER			
B 5700 9804A001			
DATE ISSUED			
REF			

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OVER UP TO +/-

0 0.125 0.005

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0.25 1.25 0.020

1.25 6 0.030

6 15 0.040

15 40 0.060

40 80 0.100

80 INCHES +/- 1/8"

FINISH

APPROVED

☐ YES ☐ NO ☐ AS SHOWN

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

©1999 RITE-HITE DOORS INC.

REVISION HISTORY

REV	DESCRIPTION	ECN	DATE	BY	APPROVED
F	20x20 weave, gray was 30x20	5709	8/21/2008	CGR	
G	REMOVE 20x20 GREY SCREEN MAT'L	6405	11/4/2011	RJK	
E	Chg weave size from 12x8 to 10x1	4876	10/7/2005	NDS	

MINIMUM SIZE: 4' X 8'-6" POWERED & 4' X 7' MANUAL

MAXIMUM SIZE: 14' X 14' POWERED & 10'-3" X 11'-2" MANUAL

SCREEN MATERIAL: ☐ STD - 17 X 11 WEAVE, .025" THREAD Ø YELLOW, RED, BLUE, GRAY

☐ OPT - IN .013" THREAD Ø 20 X 30 WEAVE, BLACK

☐ OPT - 10 X 10 WEAVE, .028" THREAD Ø BLACK

DRIVE SYSTEM: POWERED: ☐ TUBULAR MOTOR WITH GEAR HEAD, FREE FALL BRAKE PROTECTION, AND ROTARY LIMIT SWITCHES.

THE MOTOR IS CONTAINED WITHIN THE ROLL TUBE AND DRIVES THE ROLL TUBE WITH AN INTEGRAL KEY.

CONTROLS: 120 VOLT AC, SINGLE PHASE, 60 HZ. CONSTANT CONTACT ROTARY CAM SWITCH, RATED NEMA 4X.

MANUAL: ☐ TORSIONAL SPRING IN THE TUBE.

ROLLER TUBE: 3" Ø ALUMINUM TUBE.

TRACK OPTIONS: ☐ 6 1/16" WIDE RIGID PVC

☐ HEAVY-DUTY 6 1/2" X 12 GA. (.1046) STEEL.

ARCHITECTURAL APPROVAL

IN-JAMB MODEL BUGSHIELD

SIZE MODEL NUMBER

B 5700 9804A001

DATE ISSUED

REF

DO NOT SCALE DRAWING

MM-DD-YY

DATE

10/24/1997

INCH TOLERANCES

OVER UP TO +/-

0 0.125 0.005

0.125 0.25 0.010

0.25 1.25 0.020

1.25 6 0.030

6 15 0.040

15 40 0.060

40 80 0.100

80 INCHES +/- 1/8"

FINISH

APPROVED

☐ YES ☐ NO ☐ AS SHOWN

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

©1999 RITE-HITE DOORS INC.

REVISION HISTORY

REV	DESCRIPTION	ECN	DATE	BY	APPROVED
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ROLLER TUBE: 3" Ø ALUMINUM TUBE.

TRACK OPTIONS: ☐ 6 1/16" WIDE RIGID PVC

☐ HEAVY-DUTY 6 1/2" X 12 GA. (.1046) STEEL.

ARCHITECTURAL APPROVAL

IN-JAMB MODEL BUGSHIELD

SIZE MODEL NUMBER

B 5700 9804A001

DATE ISSUED

REF

DO NOT SCALE DRAWING

MM-DD-YY

DATE

10/24/1997

INCH TOLERANCES

OVER UP TO +/-

0 0.125 0.005

0.125 0.25 0.010

0.25 1.25 0.020

1.25 6 0.030

6 15 0.040

15 40 0.060

40 80 0.100

80 INCHES +/- 1/8"

FINISH

APPROVED

☐ YES ☐ NO ☐ AS SHOWN

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

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24

Publication: AMEN00207 2020-07-06

[illegible]

FACE MOUNT ARCHITECTURAL

REVISION HISTORY

REV	DESCRIPTION	ECN	DATE	BY	APPROVED
E	Chg weave size from 12x8 to 10x1	4876	10/7/2005	MD3	
F	20-20 weave, grey, was 30-20	5709	8/21/2008	CCR	
G	REMOVE 20-20 GREY SCREEN MAT'L	6405	11/4/2011	RJK	

SPECIFICATIONS:

DOOR SIZE: MINIMUM SIZE: 4' X 7'-6" POWERED & 4' X 7' MANUAL

MAXIMUM SIZE: 14' X 14' POWERED & 10'-3" X 10'-3" MANUAL

SCREEN MATERIAL: ☐ STD.- 17 X 11 WEAVE, .025" THREAD Ø YELLOW, RED, BLUE, GRAY

☐ OPT.- IN .013" THREAD Ø 20 X 30 WEAVE, BLACK

☐ OPT.- 10 X 10 WEAVE, .028" THREAD Ø BLACK

DRIVE SYSTEM: POWERED: ☐ TUBULAR MOTOR WITH GEAR HEAD, FREE FALL BRAKE PROTECTION, AND ROTARY LIMIT SWITCHES. THE MOTOR IS CONTAINED WITHIN THE ROLL TUBE AND DRIVES THE TUBE WITH AN INTEGRAL KEY.

CONTROLS: 120 VOLT AC, SINGLE PHASE, 60 Hz. CONSTANT CONTACT ROTARY CAM

MANUAL: ☐ SWITCH, RATED NEMA 4X. ☐ TORSIONAL SPRING IN THE TUBE.

ROLLER TUBE: 3" Ø ALUMINUM TUBE.

TRACK OPTIONS: ☐ 5 1/2" WIDE RIGID PVC ☐ HEAVY-DUTY 2 1/2" X 12 GA. (.1046) STEEL.

MOTOR OR MANUAL OPERATED DOORS

STEEL/PVC TRACK CONFIGURATION

SEE ENLARGED VIEW

DOOR OPENING WIDTH MINUS 4" PLUS 8"

DOOR OPENING HEIGHT PLUS 5" FOR STEEL PLUS 3" FOR PVC

JUNCTION BOX SIZE: 5" X 5" MUST BE LOCATED WITHIN 8" OF MOTOR.

DOOR LATCH MANUAL DOORS ONLY

DOOR OPENING HEIGHT

ROTARY CAM SWITCH

DOOR OPENING WIDTH

INCH TOLERANCES

OVER	UP TO	+/-
0	0.125	0.005
0.125	0.25	0.010
0.25	1.25	0.020
1.25	6	0.030
6	16	0.040
16	40	0.060
40	80	0.100
80	-	0.125

ANGLES FINISH 45° 135°

APPROVED ☐ YES ☐ NO ☐ AS MARKED

APPROD BY: \_\_\_\_\_

DATE: \_\_\_\_\_

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NOTE:

NOTE:

CONDUIT SUPPLIED BY OTHERS.

MANUAL OPERATED DOOR WILL HAVE THE SAME OVERALL DIMENSIONS MINUS THE JUNCTION BOX AND ROTARY CAM SWITCH.

ITEM

QTY

PART NO

DESCRIPTION

PARTS LIST / MATERIAL

RITE-HITE DOORS INC.

TITLE

ARCHITECTURAL APPROVAL

FACE MOUNT MODEL BUGSHIELD

SIZE MODEL NUMBER 5700 9804A002

DATE NO

REV G

SCALE 6'-1'

SHEET 1

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# RITE-HITE DOOR PRODUCT WARRANTY



RITE-HITE Company, LLC and its affiliates (collectively "RITE-HITE") warrants that the BUGSHIELD door sold to the Owner will be free of defects in design, materials and workmanship (ordinary wear and tear excepted) for the periods set forth below ("Limited Warranty").

One (1) Year on all mechanical and ninety (90) days electrical parts.

One (1) Year labor, based on approved travel and labor repair times.

Maximum cycles of forty (40) per day.

## REMEDIES

**Parts.** RITE-HITE's obligations under this Limited Warranty is limited to repairing or replacing, at RITE-HITE's option, any part which is determined by RITE-HITE to be defective during the applicable warranty period. Such repair or replacement shall be RITE-HITE's sole obligation and the Owner's exclusive remedy under this Limited Warranty.

**Labor.** RITE-HITE will provide warranty service without charge for labor in the first year of the warranty period. Thereafter, a charge will apply to any repair or replacement under this Limited Warranty.

**CLAIMS.** Claims under this Limited Warranty must be made (i) within 30 (thirty) days after discovery and (ii) prior to expiration of the applicable warranty period. Claims shall be made in writing or by contacting the representative from whom the Product was purchased directly. Owner must allow RITE-HITE or its agent, a reasonable opportunity to inspect any Product claimed to be defective and shall, at RITE-HITE's option, either (x) grant RITE-HITE or its agent access to Owner's premises for the purpose of repairing or replacing the Product or (y) return of the Product to the RITE-HITE, f.o.b. RITE-HITE's factory.

**NOT WARRANTED.** RITE-HITE does not warrant against and is not responsible for wear items such as fuses, batteries, bulbs, vision and seals. No implied warranty shall be deemed to cover, damages that result directly or indirectly from: (i) the unauthorized modification or repair of the Product, (ii) damage due to misuse, neglect, accident, failure to provide necessary maintenance, or normal wear and tear of the Product, (iii) failure to follow RITE-HITE's instructions for installation, failure to operate the Product within the Product's rated capacities and/or specified design parameters, or failure to properly maintain the Product, (iv) use of the Product in a manner that is inconsistent with RITE-HITE's guidelines or local building codes, (v) movement, settling, distortion, or collapse of the ground, or of improvements to which the Products are affixed, (vi) fire, flood, earthquake, elements of nature or acts of God, riots, civil disorder, war, or any other cause beyond the reasonable control of RITE-HITE, (vii) improper handling, storage, abuse, or neglect of the Product by Owner or by any third party.

**DISCLAIMERS.** THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, AND RITE-HITE EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE. RITE-HITE SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO THE PRODUCTS SOLD OR SERVICES RENDERED BY RITE-HITE, OR ANY UNDERTAKINGS, ACTS, OR OMISSIONS RELATING THERETO.

**LIMITATION OF LIABILITY.** IN NO EVENT SHALL RITE-HITE BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RITE-HITE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Such excluded damages include, but are not limited to, personal injury, damage to property, loss of goodwill, loss of profits, loss of use, cost of cover with any substitute product, interruption of business, or other similar indirect financial loss. Rite-Hite 2.1.14

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5,579,820, 5,638,883, 5,794,678, 5,887,385, 5,915,448, 5,944,086, 6,089,305, 6,145,571, 6,148,897, 6,192,960, 6,212,826, 6,321,822, 6,325,195, 6,330,763, 6,360,487, 6,481,487, 6,560,927, 6,598,648, 6,612,357, 6,615,898, 6,688,374, 6,698,490, 6,837,296, 6,901,703, 6,942,000, 6,964,289, 7,034,682, 7,045,764, 7,111,661, 7,114,753, 7,151,450, 7,578,097, 7,699,089, 7,748,431, 7,757,437, 8,037,921, 8,167,020, 8,113,265.

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