



DOR-O-MATIC™

INGERSOLL-RAND

ARCHITECTURAL HARDWARE

Series 96000 Sliding Door

Installation Instructions and Service Manual

DOR - O - MATIC™

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INSPECTION

1. Verify that the order was shipped complete and correct, including model number, color, and package width and height.
2. Verify at **job site** that **all conditions** are correct and in accordance with **final approved shop drawings**.
 - A. Check that the opening is the correct size. Correct size is package width plus $\frac{1}{2}$ " (13mm) and package height plus $\frac{1}{4}$ " (6mm), for shimming and caulking (Figure 1).

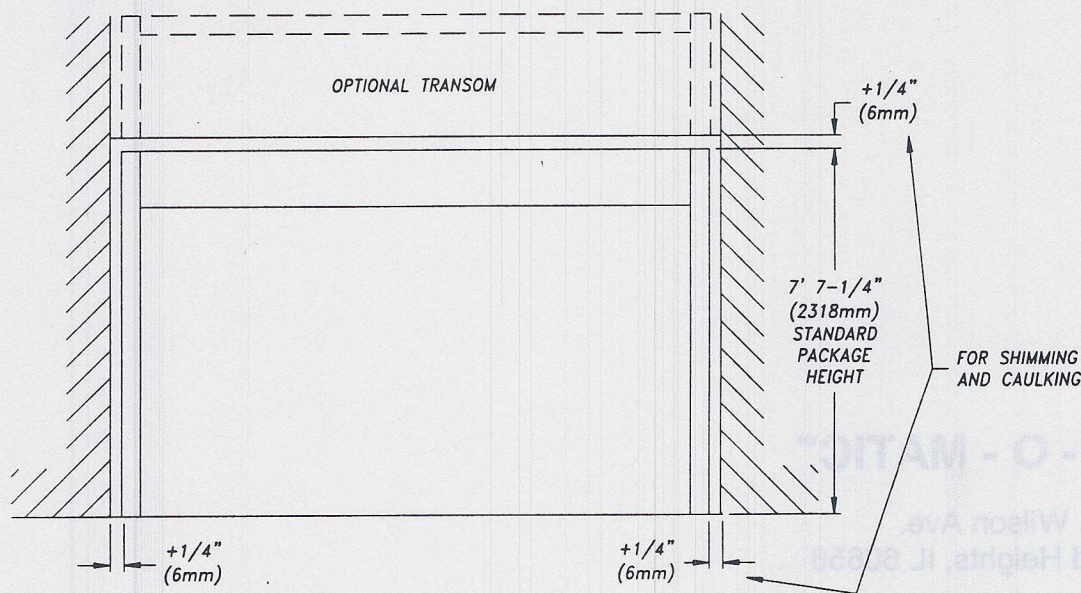


FIGURE 1: Clearance Required at Rough Opening

- B. Check that the floor is level. Use a minimum 6'-0" (1829mm) level or use the actual aluminum header turned upside down to check floor (Figure 2).
- C. Using a plumb bob, check that the rough opening where the jambs will be mounted is vertical (Figure 2).
- D. Check the diagonal measurements to insure that the opening is a true rectangle, not just a parallelogram (Figure 2).

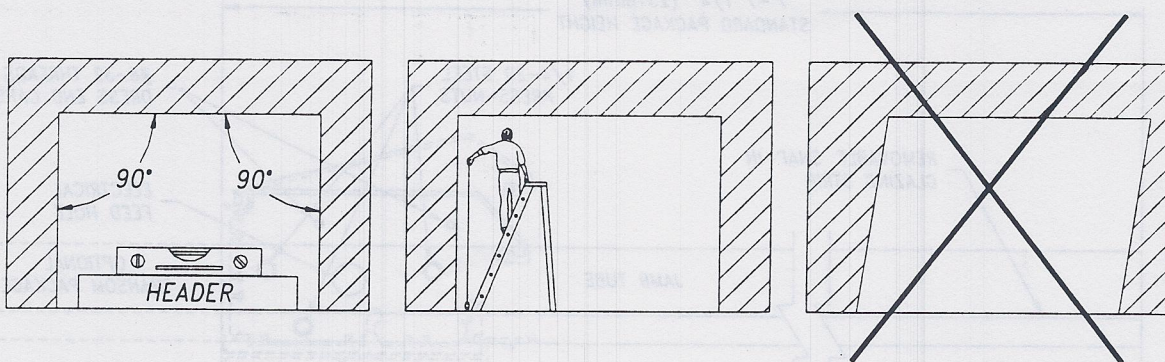


FIGURE 2: Check Rough Opening

- E. Check that the electrical feed (120V, 15A single phase for North America, 220/240V, 5A single phase for Europe, Asia, etc.) is correctly located in accordance with final approved shop drawings and all conduits and electrical junction boxes for push plates or other activation devices (if required) are likewise correctly located.

NOTE: If any of the above items are not correct, **do not attempt to install the Series 96000 Slide package!** Report any incorrect items to the general contractor **immediately**. Do not proceed until all conditions are correct.

HEADER & JAMB MOUNTING

1. Open the carton marked "HEADER". Remove the header and set on a piece of cardboard with the swing cover facing up. Remove the cover bumpers near the cover hinge. Do not lose the cover bumpers, as they must be re-installed to prevent the cover from coming off when opened. Using a screwdriver, press up on the cover lock tab (one each end) to disengage and open the cover. (Figure 3).

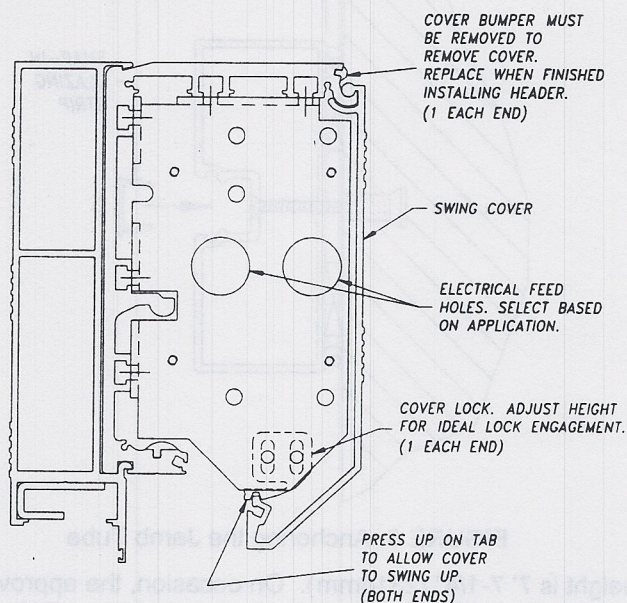


FIGURE 3: Cover Removal

2. Within the header (factory installed), are the motor/gearbox with drive pulley, belt drive, idler pulley and tensioner assembly, control box, transformer box, safety beam control box, any switches and the terminal block bracket. Also, lay out the items shipped in a blister-pack at a convenient location.
3. Align the jamb tubes with the ends of the header, making sure that the bolt holes and electrical feed hole line up. Use three 1/4-20 X 1" long bolts on each side to secure the header end cap to each jamb tube. Then install one dress end cap on each side using the #8-32 screws (Figure 4).

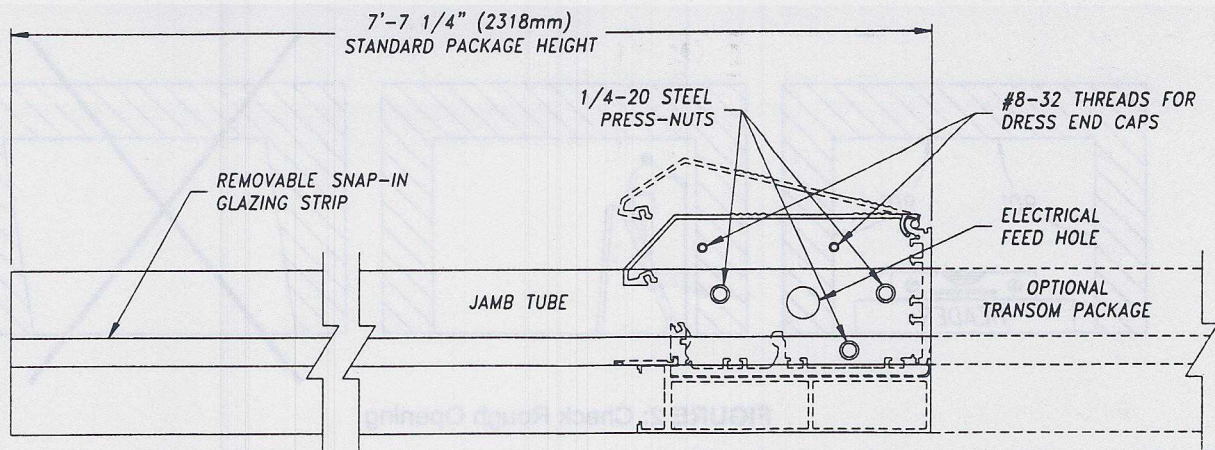


FIGURE 4: Jamb Tube Attachment to Header

4. Insert wood tapered shims at each jamb to plumb each jamb. Insert $\frac{1}{4}$ " (6mm) spacers around the header or horizontal transom tube at anchor locations to keep the tubes from being pulled tight.
5. With a helper, tip up the jamb/header assembly and position it within the rough opening, making sure the swing cover is on the correct side. Verify that the package is located correctly within the rough opening – refer to the final approved shop drawings. The Series 96000 Slide package is **usually** centered within the opening or is mounted flush with the curtain wall, but verify the position with the drawings, contractor, architect, etc.
6. Use appropriate fasteners (four per jamb) to anchor through the glazing recess of the jamb tube to the wall or adjacent framing. Check the jamb tubes with a level to be sure that the tubes have not been pulled in by the anchors. Finally, install the snap-in glazing strips into the jamb tubes (Figure 5).

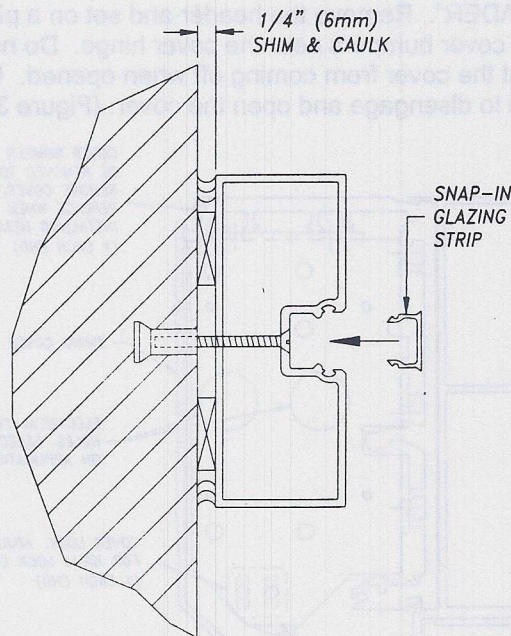


FIGURE 5: Anchoring the Jamb Tube

7. The standard package height is 7' 7-1/4" (2318mm). On occasion, the approved shop drawings sometimes require a package height of 7' 6-3/4" (2305mm). If this is the case, cut off $\frac{1}{2}$ " (13mm) from the bottom of each jamb tube in the field. This generally is performed for a recessed threshold application.

PACKAGE COMPONENTS

1. Refer to the following illustration for a detailed breakdown of internal drive components (Figure 6).

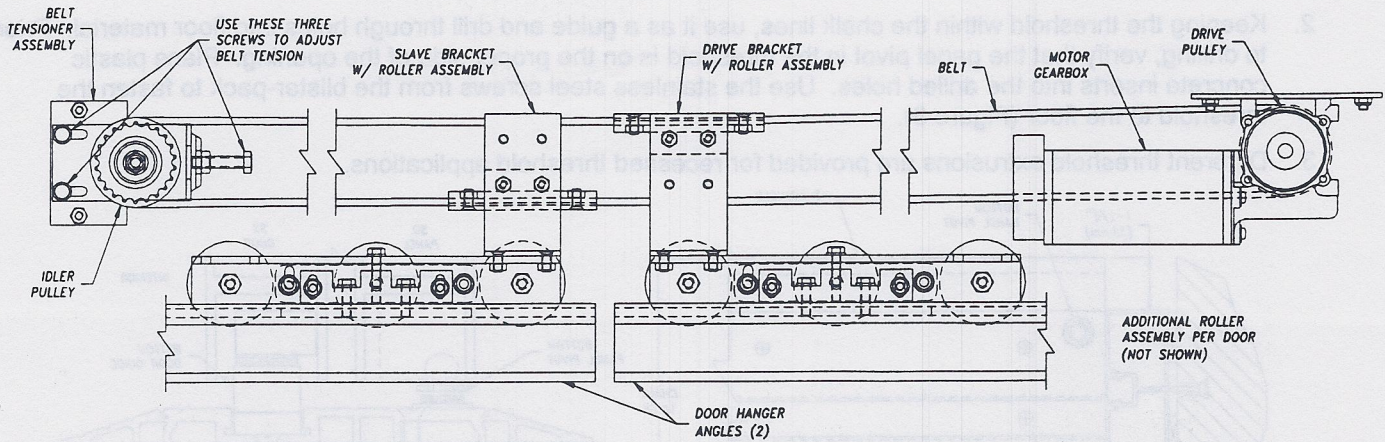


FIGURE 6: Belt Drive Assembly

2. Refer to the following illustration for a detailed section view of a typical Series 96000 Slide inside slide application (Figure 7).

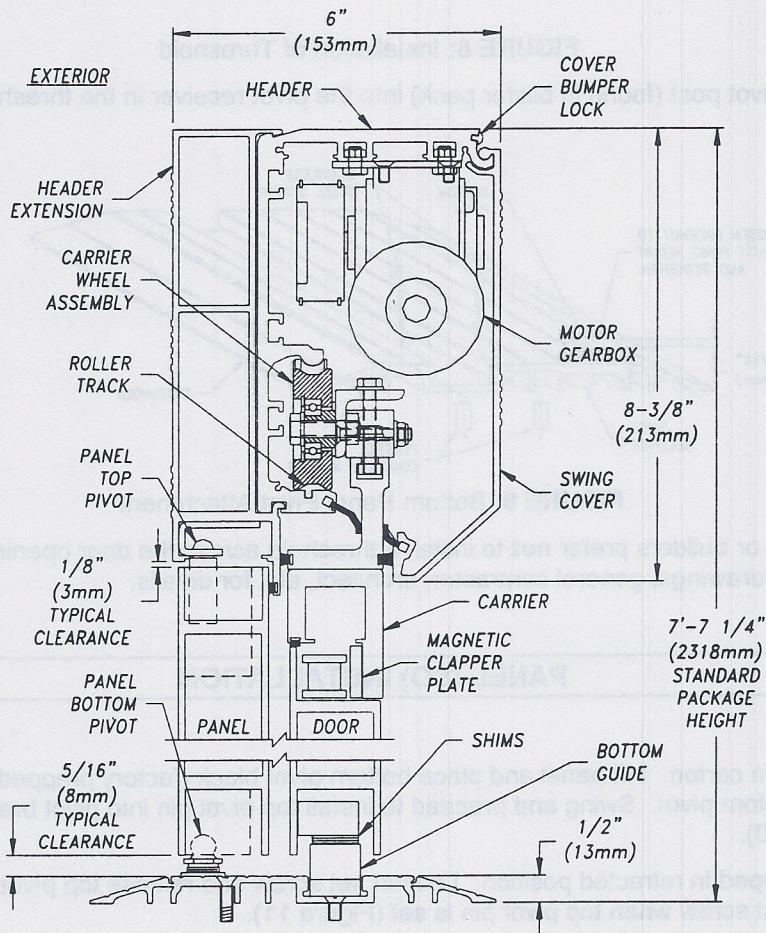


FIGURE 7: Section View through Header, Door and Panel

NOTE: If the package being installed is over 10' 0" (3048mm) wide and has a transom, a vertical transom tube must be anchored securely to the top transom tube in order to prevent deflection in the header.

THRESHOLD INSTALLATION

1. After again verifying that the floor is level, snap a chalk line 1-1/2" from the face of each jamb on both sides. Place the threshold between the jamb tubes within the chalk lines.
2. Keeping the threshold within the chalk lines, use it as a guide and drill through holes into floor material. Prior to drilling, verify that the panel pivot in the threshold is on the proper side of the opening. Place plastic concrete inserts into the drilled holes. Use the stainless steel screws from the blister-pack to fasten the threshold to the floor (Figure 8).
3. Different threshold extrusions are provided for recessed threshold applications.

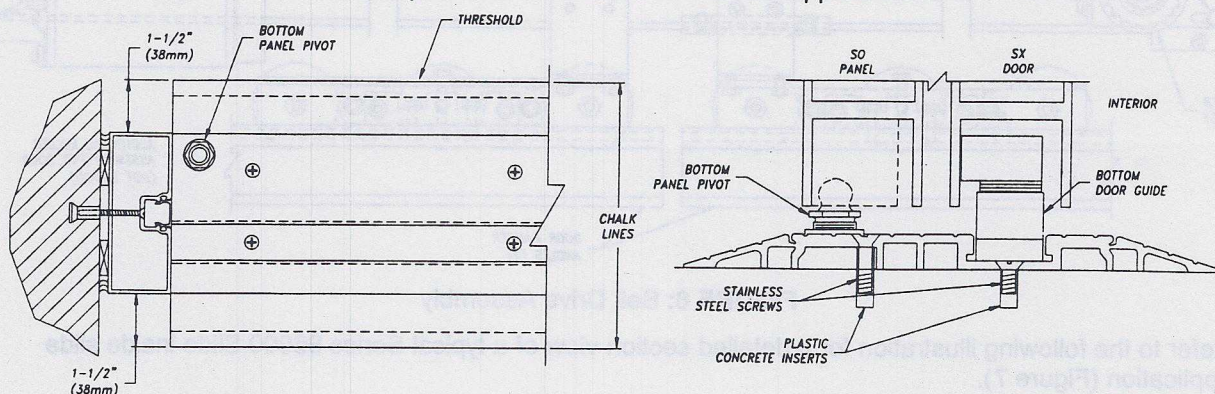


FIGURE 8: Installation of Threshold

4. Thread the panel pivot post (found in blister pack) into the pivot receiver in the threshold and adjust to correct height (Figure 9).

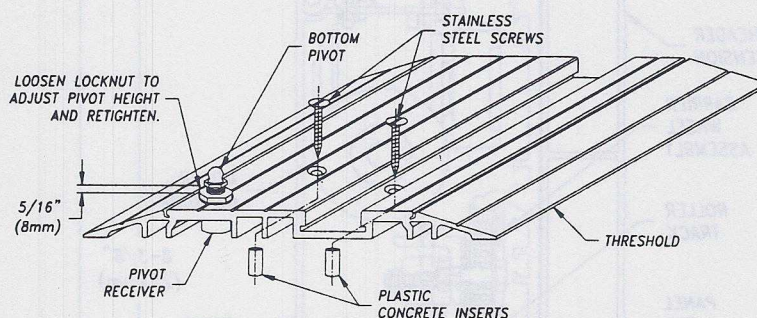


FIGURE 9: Bottom Panel Pivot Attachment

NOTE: Certain owners or builders prefer **not** to install a threshold across the door opening. Refer to the final approved shop drawings, general contractor, architect, etc. for details.

PANEL (SO) INSTALLATION

1. Remove panels from carton. Lift panel and place bottom pivot block (factory prepped and installed in bottom panel stile) onto bottom pivot. Swing and proceed to install top pivot pin into pivot bracket mounted in header extension (Figure 10).
2. Top pivot pin is shipped in retracted position. Loosen set screw and release top pivot pin into the hole in the bracket. Tighten set screw when top pivot pin is set (Figure 11).
3. Adjust lock nut on bottom pivot to give the required 1/8" (3mm) clearance at the top of the panel (Figure 9).
4. Top pivot removal tool #96022-100 is required to remove panel. Loosen set screw and push pin down with the tool (Figure 12).

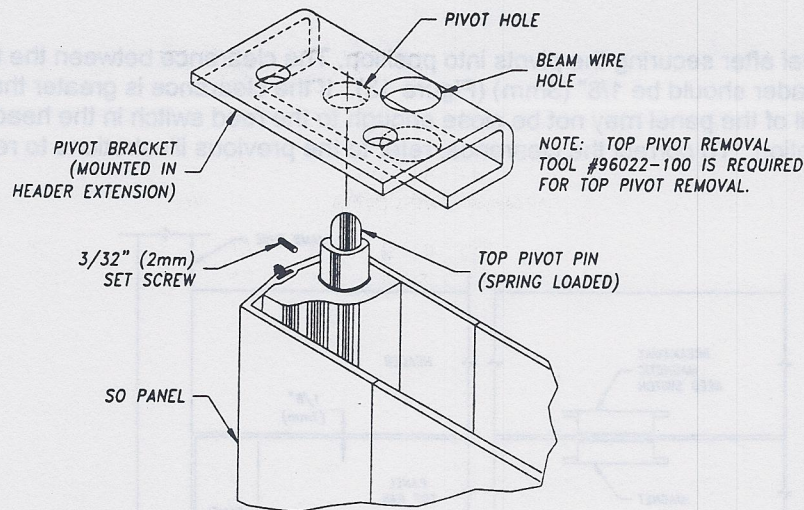


FIGURE 10: Panel Top Pivot Detail

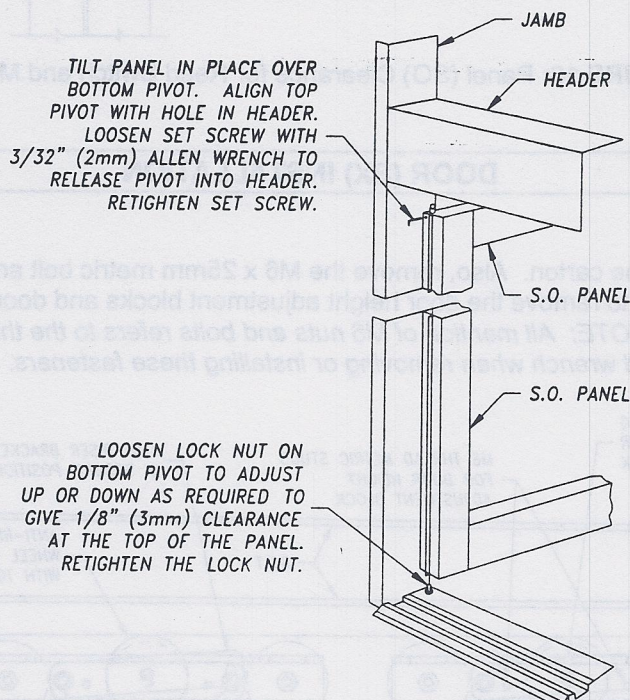
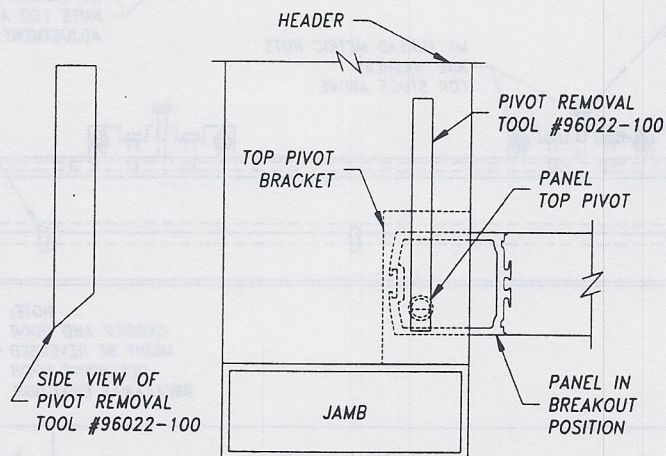


FIGURE 11: Panel Installation Detail



NOTE: BE CAREFUL NOT TO DAMAGE OR CUT THE PENCIL BEAM CABLES THAT RUN THROUGH THE TOP PIVOT BRACKET WHEN REMOVING THE PANEL.

FIGURE 12: Panel Removal Detail

- Slowly close the panel after securing the pivots into position. The clearance between the top of the panel and the bottom of the header should be $1/8"$ (3mm) (Figure 13). If the clearance is greater than $1/8"$ (3mm), the magnet in the top rail of the panel may not be close enough to the reed switch in the header to complete the circuit for door activation. To correct the clearance, refer to the previous illustrations to remove the panel and adjust the height.

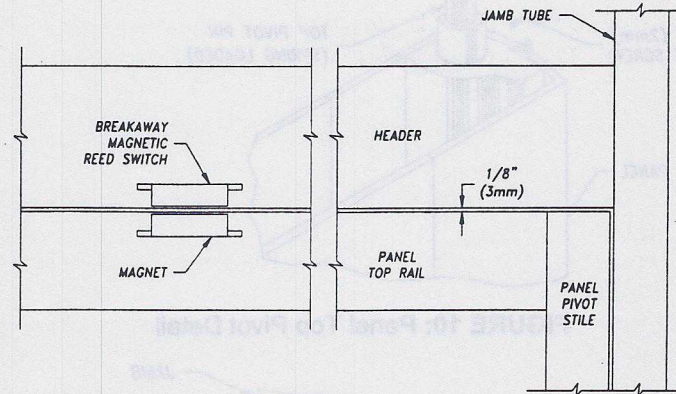


FIGURE 13: Panel (SO) Clearance for Reed Switch and Magnet

DOOR (SX) INSTALLATION

- Remove the doors from the carton. Also, remove the M6 x 25mm metric bolt and M6 metric nuts from the roller assemblies in order to remove the door height adjustment blocks and door angle from the roller assembly **as one unit**. *NOTE: All mention of M6 nuts and bolts refers to the thread diameter. Use a 10mm socket or 10mm open-end wrench when removing or installing these fasteners.*

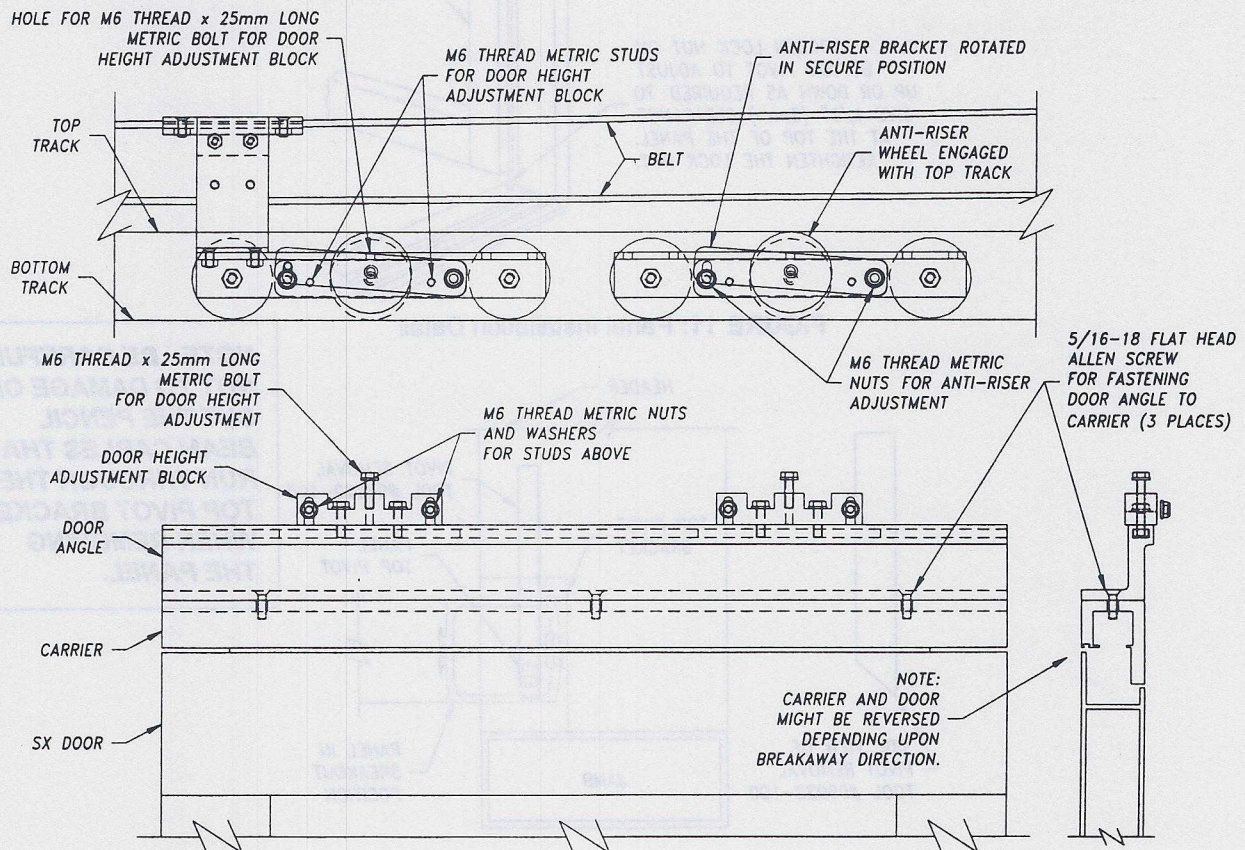


FIGURE 14: Anti-Riser Adjustment and Door (SX) Attachment Procedure

2. Verify that the anti-riser wheel is securely engaged with the top track of the header on all roller assemblies (Figure 14).
3. Using the 5/16-18 flat head socket screws supplied, attach the door angle/adjustment block assembly to the top of the carrier. Make sure that the door matches the angle and will break out to the proper side (Figure 14).
4. Hang the door/angle/adjustment block assembly back on the studs in the roller assemblies (2 per door).
5. To adjust door height, keep the M6 metric nuts loose and turn the M6 x 25mm metric bolt (RH to raise the door, LH to lower the door). To keep the door level, be sure to adjust both roller assemblies on each door. After finding the correct, level height, secure the assembly in place with the M6 metric nuts (Figure 15).
6. When finished adjusting the door height, again verify that the anti-riser wheels are engaged with the top track of the header.
7. Remove the sliding door bottom pivot assembly (which includes the floor guide) from the blister pack. Install the bottom pivot assembly into the bottom vertical door stile through the two prepped and countersunk holes with the 1/4-20 x 3/8" long flat head screws provided (Figure 16).
8. Verify that the bottom guide is in the threshold track and slowly slide the door back and forth to assure smooth operation. Check to see if the floor guide is deep enough in the track. It may be necessary to add or remove shim washers as required.

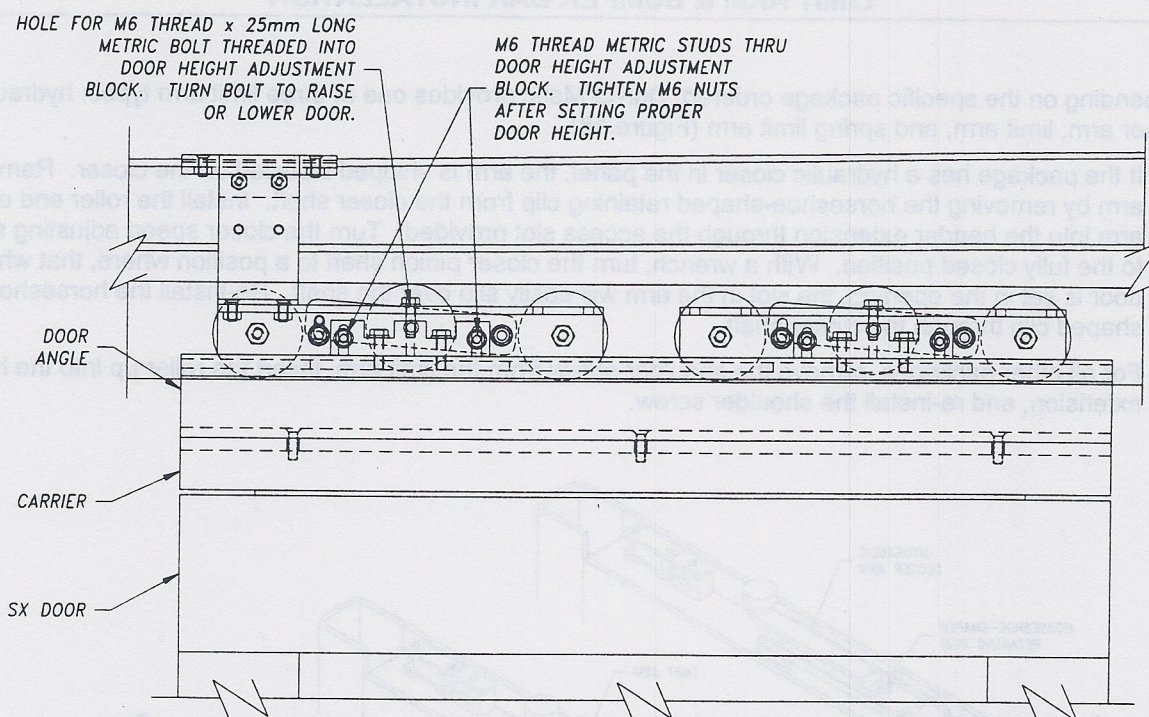


FIGURE 15: Door (SX) Height Adjustment

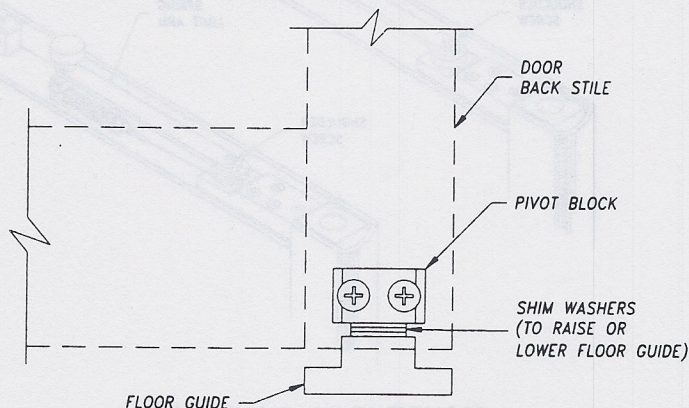


FIGURE 16: Installation of Door (SX) Bottom Pivot Assembly

9. Next, break open the door and panel. Slowly close the door and check the clearance between the top of the door and the bottom of the carrier. If the clearance is not 1/8" (3mm), loosen the 1/4" (6mm) allen head set screw at the bottom of the carrier. Adjust the clearances as required by turning the large allen head bolt. After setting the correct clearance, re-tighten the 1/4" (6mm) allen head set screw (Figure 17).

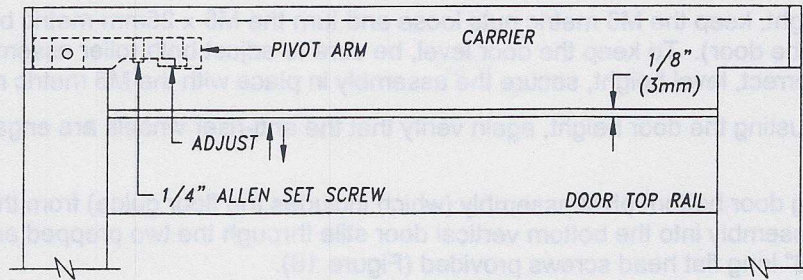


FIGURE 17: Door/Carrier Adjustment

LIMIT ARM & BUMPER BAR INSTALLATION

1. Depending on the specific package ordered, Dor-O-Matic provides one of three limit arm types: hydraulic closer arm, limit arm, and spring limit arm (Figure 18).
 - A. If the package has a hydraulic closer in the panel, the arm is shipped installed on the closer. Remove the arm by removing the horseshoe-shaped retaining clip from the closer shaft. Install the roller end of the arm into the header extension through the access slot provided. Turn the closer speed adjusting screws to the fully closed position. With a wrench, turn the closer pinion shaft to a position where, that when the door is set in the opening, the slot in the arm will easily slip over the shaft. Re-install the horseshoe-shaped clip through the closer shaft.
 - B. For all other packages, remove the shoulder screw from the limit arm, insert the roller up into the header extension, and re-install the shoulder screw.

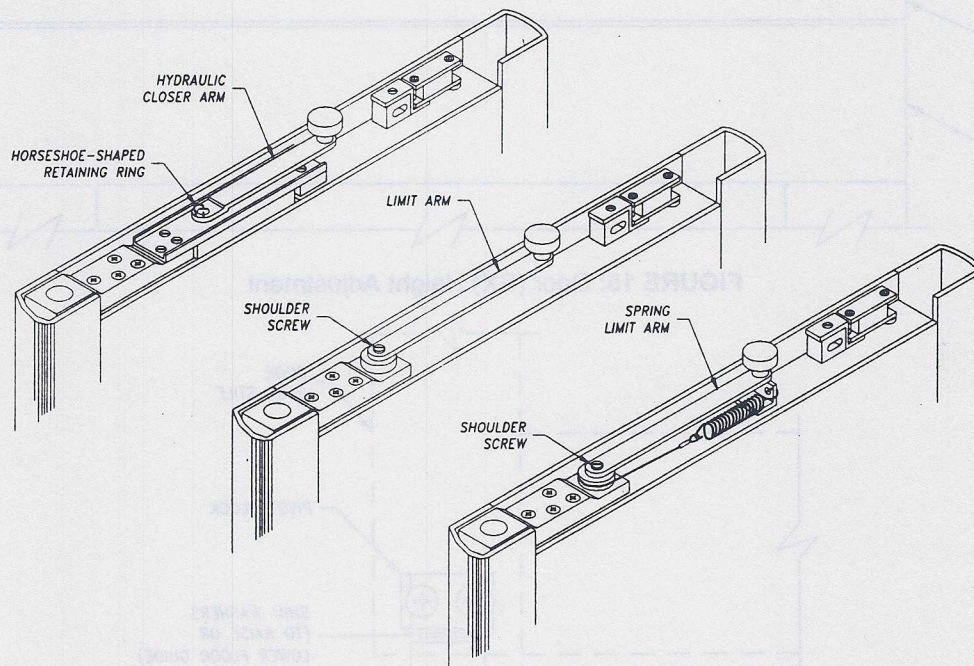


FIGURE 18: Limit Arm Details

2. Refer to the following illustration for Dor-O-Matic bumper bar installation (Figure 19).

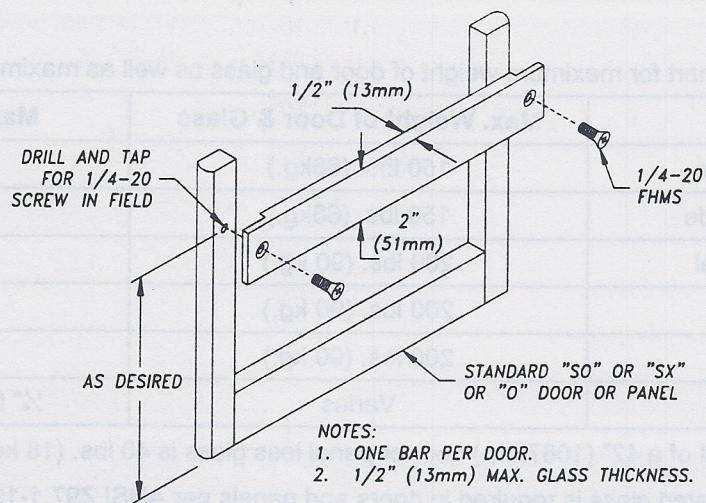


FIGURE 19: Bumper Bar Installation

WIRE DIAGRAM

Refer to the following illustration for connecting power to the Series 96000 Slide (Figure 20).

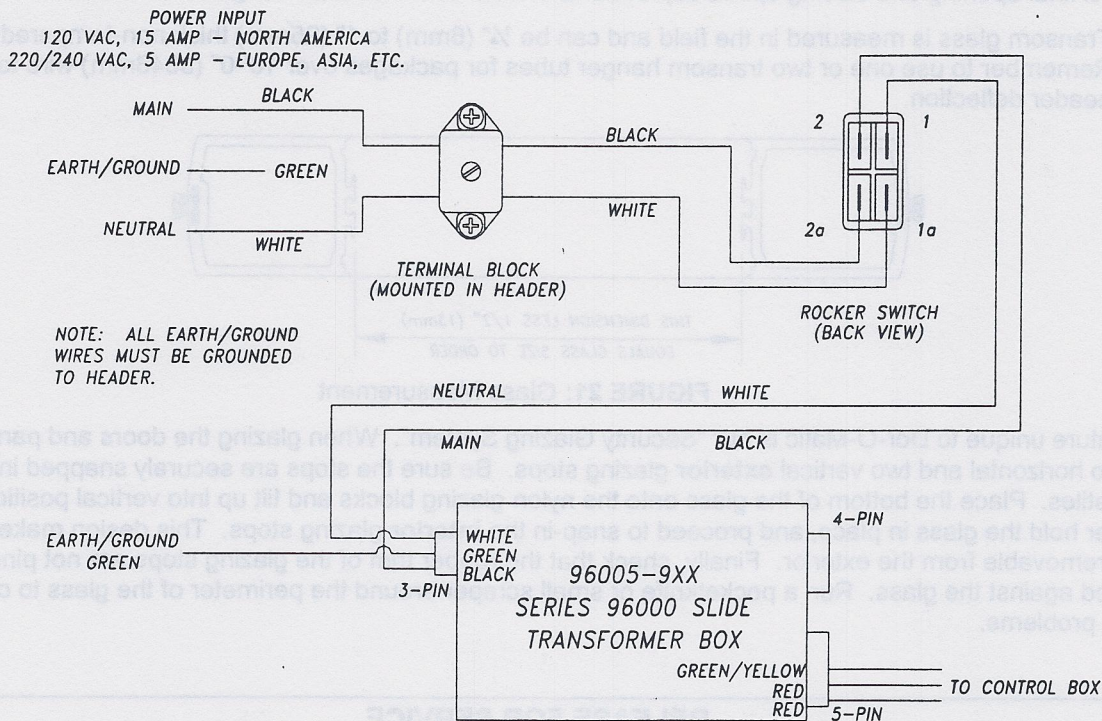


FIGURE 20: Series 96000 Slide Wiring Diagram

GLAZING

1. Refer to the following chart for maximum weight of door and glass as well as maximum glass thickness.

| Door/Panel | Max. Weight of Door & Glass | Max. Glass Thickness |
|-----------------------|-----------------------------|--------------------------|
| SX Door Inside Slide | 150 lbs. (68kg.) | 1" (25mm) |
| SX Door Outside Slide | 150 lbs. (68kg.) | 1" (25mm) |
| SO Swing Out Panel | 200 lbs. (90 kg.) | 5/8" (16mm) |
| O Fixed Panel | 200 lbs. (90 kg.) | 1" (25mm) |
| X Sliding Door | 200 lbs. (90 kg.) | 1" (25mm) |
| Transom | Varies | 1/4" to 1" (6mm to 25mm) |

NOTE: The average weight of a 42" (1067mm) door or panel less glass is 40 lbs. (18 kg.).

- A. Tempered or laminated glass is required in doors and panels per ANSI Z97.1-1972.
- B. If the installation is a "standard package", the glass sizes (both with 2" (51mm) muntins and without) are called out in the Dor-O-Matic details and specifications book, along with the model number of the package.
- C. If the installation is **not** a standard package, measure the width and height between the stile extrusions and **subtract** 1/2" (13mm) (Figure 21). This is the glass size to order.
- D. Order the correct glass stops for the thickness of glass in the application.
- E. All final opening and closing speed adjustments should be made after the glass is installed.
- F. Transom glass is measured in the field and can be 1/4" (6mm) to 1" (25mm) thick non-tempered glass. Remember to use one or two transom hanger tubes for packages over 10'-0" (3048mm) wire to prevent header deflection.

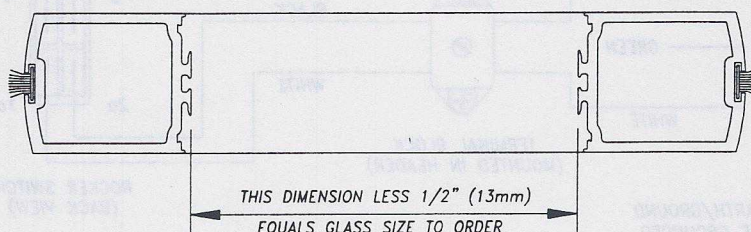


FIGURE 21: Glass Measurement

2. A feature unique to Dor-O-Matic is our "Security Glazing System". When glazing the doors and panels, snap in two horizontal and two vertical **exterior** glazing stops. Be sure the stops are securely snapped into the rails and stiles. Place the bottom of the glass onto the nylon glazing blocks and tilt up into vertical position. Have a helper hold the glass in place, and proceed to snap-in the **interior** glazing stops. This design makes the glass non-removable from the exterior. Finally, check that the rubber trim of the glazing stops are not pinched or tucked against the glass. Run a pocketknife or small scraper around the perimeter of the glass to correct any such problems.

RELEASE FOR SERVICE

Clean the glass. Install all safety, traffic control, and instruction decals to the door as required. **This is very important! Failure to do this leaves the installer LIABLE for any accident that might occur. This must be done!** Present the keys to the owner or general contractor. Demonstrate the unit, review all safety features as well as the safety check that is to be performed by the owner each morning.

DOR-O-MATIC 96500-900 Fail Safe Electric Lock and 96550-900 Fail Secure Electric Lock Installation Instructions

96500-084

GENERAL

These Dor-O-Matic Electric Lock Systems are designed for use with a Dor-O-Matic Quantum-Slide operator and Dor-O-Matic four-position key switch 96030-900. Refer to the following chart for door and lock functions.

| 96500-900 Fail Safe Electric Lock | | 96550-900 Fail Secure Electric Lock | |
|-----------------------------------|---|-------------------------------------|---|
| Key Position | Operation | Key Position | Operation |
| Off | Door is locked. Inside activation and outside activation are both non-functional. | Off | Door is locked. Inside activation and outside activation are both non-functional. |
| 1-Way | Inside Activation: Door is locked until activation, at which point door unlocks and opens. Outside Activation: Door is locked. Outside activation is non-functional. | 1-Way | Inside Activation: Door is locked until activation, at which point door unlocks and opens. Outside Activation: Door is locked. Outside activation is non-functional. |
| 2-Way | Door is unlocked. Both inside activation and outside activation are functional. | 2-Way | Door is unlocked. Both inside activation and outside activation are functional. |
| Hold Open | Door is unlocked and held open indefinitely. | Hold Open | Door is unlocked and held open indefinitely. |
| No power to door | Door is unlocked | No power to door | Door is locked |

Note: When morning entry is used with either of the above electric locks and a 4-position key switch, the door will activate regardless of the position of the key switch.

WIRE DIAGRAM

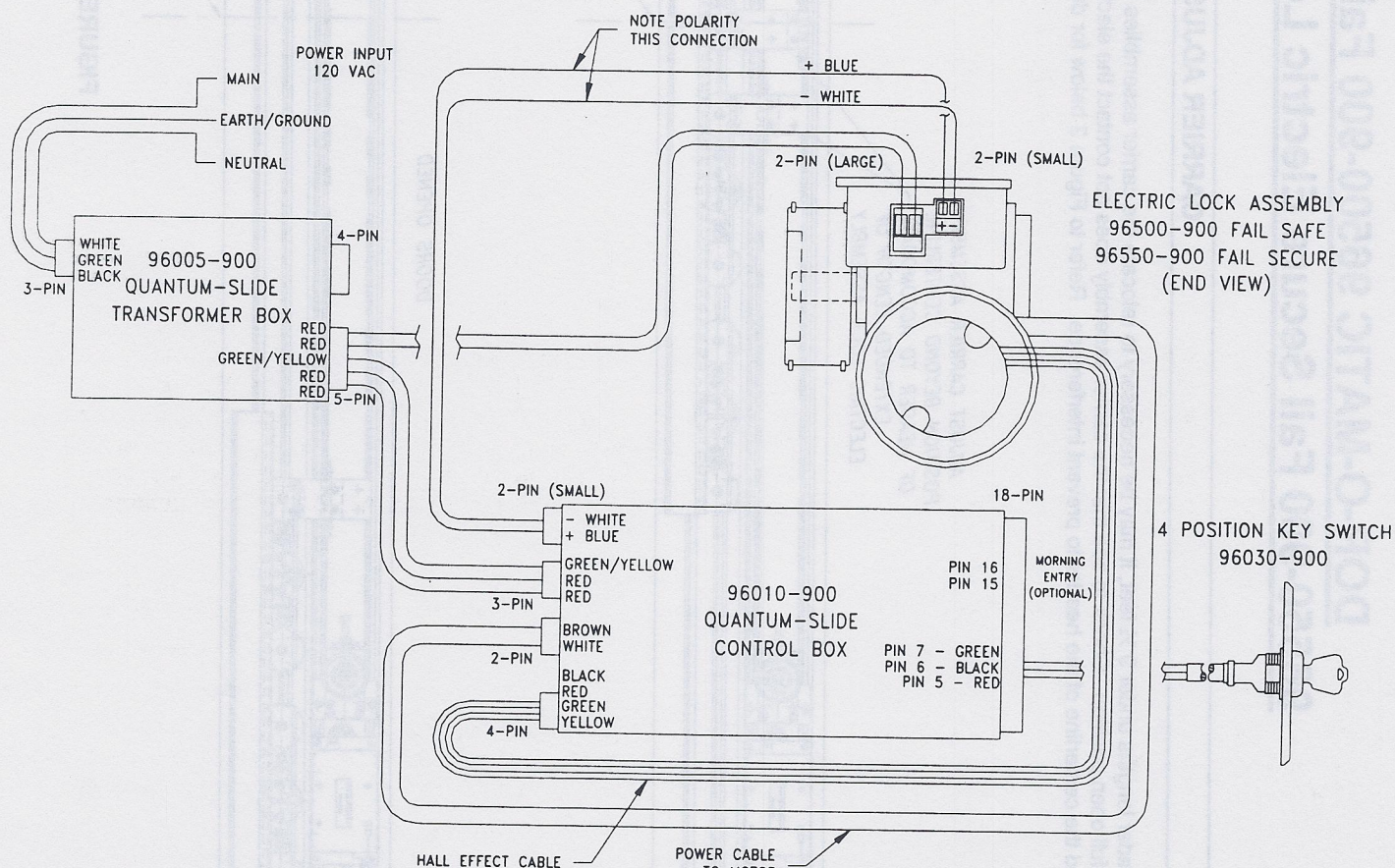


FIGURE 1

DOR-O-MATIC 96500-900 Fail Safe Electric Lock and 96550-900 Fail Secure Electric Lock Installation Instructions

96500-084

CARRIER ADJUSTMENTS

On header lengths under 9 1/2 feet, it may be necessary to relocate the carrier assemblies to accommodate the electric lock assembly. Prior to operating the door, manually open the door to the full open position. Check to see that the carrier assembly does not contact the electric lock assembly. If there is interference, relocate the carrier assembly the necessary distance beyond the centerline of the header to prevent interference. Refer to Figure 2 below for details.

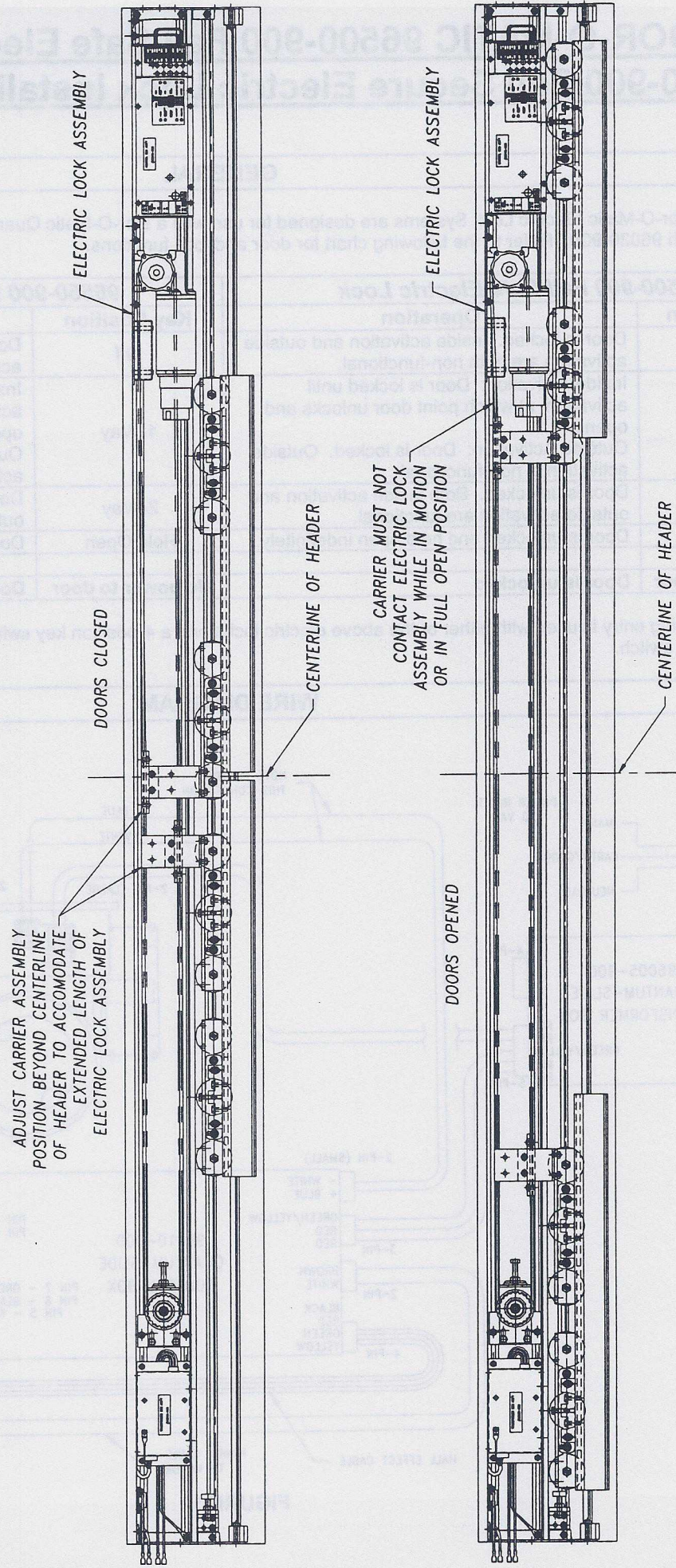


FIGURE 2



DOR-O-MATIC™

INGERSOLL-RAND

ARCHITECTURAL HARDWARE

Series 96000 Slide Control Box

Control Box 96010-900

Transformer Box 96005-900

Installation Instructions

DOR - O - MATIC™

7350 W. Wilson Ave.
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Toll Free: 1-800-543-4635
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INSTALLATION

1. **Preparation:** Refer to Series 96000 Slide Installation Manual #96000-984 for header preparation instructions.

2. **Final Wire Connection:**

Using the appropriate wiring diagrams, connect power (Figure 2) and accessories (Figure 3) as needed.

- A. Use a 115 volt, 60Hz, fused, 15 amp, 3-wire power supply.
- B. Secure all conductors and connections against physical damage.
- C. Route all wiring away from moving parts, sharp edges and heat sources.
- D. Use copper conductors only.

NOTE: Always disconnect main power to operator prior to servicing or cleaning.

3. **Operational Check and Adjustments:**

NOTE: Refer to the latest revision of ANSI/BHMA A156.10-1991 Standard for Power Operated Pedestrian Doors for all settings and adjustments.

| | |
|---------------------|-------------------------------|
| Closing Speed: | 1 foot per second or more |
| Auto Reverse Force: | 30 pounds or less |
| Latch Position: | 2 inches from closing or more |
| Hold Open: | 4 seconds or more |

A. **Sizing:**

Connect main power to the Transformer Box. After the first activation signal, the door should open and close one time, after which it is ready for normal operation. If the door does not size to full open position, first check for binds, then increase the sizing speed by rotating P6 CCW just enough to overcome the door weight, etc.

B. **Opening Speed Adjustment:**

1. Opening speed is adjusted by rotating P2 (CW=SLOWER, CCW=FASTER). It allows for proper adjustment of any normal weight and size door.

2. Cycle the door open and close several times and observe the opening speed. Select a setting that gives desired opening speed.

NOTE: It is recommended that the door be operated as slow as is practical for the traffic conditions.

C. **Closing Speed Adjustment:**

Continue to cycle the door open and close while making adjustments. Set the closing speed of the door by rotating P4 (CW=SLOWER, CCW=FASTER).

NOTE: Reset power to the control box after setting the opening speed and closing speed. This must be done before making any other adjustments.

D. **Back Check Position:**

Rotate SW2 to adjust the back check position (0=MINIMUM, F=MAXIMUM).

E. **Back Check Speed Adjustment:**

The back check speed is controlled by rotating P3 (CW=SLOWER, CCW=FASTER).

F. **Latch Position:**

Latch position is controlled by rotating SW1 (0=MINIMUM, F=MAXIMUM).

G. **Latch Speed Adjustment:**

The latch speed is controlled by rotating P5 (CW=SLOWER, CCW=FASTER).

H. **Time Delay Adjustment:**

Adjustment is made by rotating P1 (CW=LESS HOLD OPEN TIME, CCW=MORE HOLD OPEN TIME). The total adjustment range on the control box is 1 to 30 seconds of time delay.

I. **Normal/Delayed Activation:**

This function is selected with switch SW3. In the normal position, the door opens immediately upon reception of the activation signal. In the delayed position, when the door is fully closed, there is a 1 second delay between reception of the activation signal and the actual opening of the door. This delayed activation allows most electric or magnetic locks time to retract before the door opens.

J. **Auto Reverse in Closing:**

The amount of force required to reverse the door when closing is adjusted by rotating P7 (CW=MORE FORCE, CCW=LESS FORCE). The force cannot be greater than 30 lbs.

K. **Auto Reverse in Opening:**

The amount of force required to reverse the door when opening is adjusted by rotating P8 (CW=MORE FORCE, CCW=LESS FORCE).

L. **Reset Power:**

After setting all of the adjustments, reset power to the control box. Cycle the door to verify all of the settings are correct. If any settings need to be corrected, be sure to reset power again. Power must be reset after any adjustments are made.

4. **Operational Walk-Through Test:**

NOTE: It is assumed that during the installation process, any problems would have been found and corrected before this point. However, it is recommended that a complete walk-through test now be performed.

- A. Activate door operator. The door should open smoothly and silently to the back check point, where it should slow down rapidly and drift into the full open position without slamming.
- B. Remain standing in the activating area for a while, making sure that the door does not time out and close while being activated.
- C. If a door safety device is used, step into the door opening. Remain in the door opening making sure that the door does not close.
- D. Step out of the door opening. After both the activating area and door opening are clear, the door should time out at the pre-set time delay period. The door should then close quietly and smoothly to the latch point, where it rapidly slows down and drifts into the fully closed position without slamming.

5. **Release of the System for Service:**

- A. Remove all tools and installation equipment, and clean any debris from the vicinity of the door.
- B. Install all safety, traffic control, and instruction decals to the door as required. **THIS IS VERY IMPORTANT!** Failure to do this leaves the installer LIABLE for any accident that might occur. **THIS MUST BE DONE!**
- C. Verbally explain the proper operation of the door system to the owner or to the person in charge.

FEATURES

- 1. **Easy Open:** When the door is fully closed and is manually opened a few inches, the door will automatically open the rest of the way under normal opening speed.
- 2. **Adjustable Automatic Reversing:** If the door is stalled during the closing cycle, it will automatically stop and reverse fully. The door will then return to the point of obstruction and drop to slow speed, looking for the obstruction. The door will perform this cycle 5 times until the obstruction is

removed. After the fifth cycle, the door will stop. If the door is stalled during the opening cycle, it will automatically stop and reverse fully. The door will remain closed until the next activation signal, at which point it will open normally. Potentiometers on the control box adjust the force and should be adjusted in accordance with all applicable safety codes.

3. **Weatherwise:** The Weatherwise feature allows the customer to reduce the opening size. When the Weatherwise switch is set to "narrow", the door will be allowed to open to about 75% of the normal door opening.

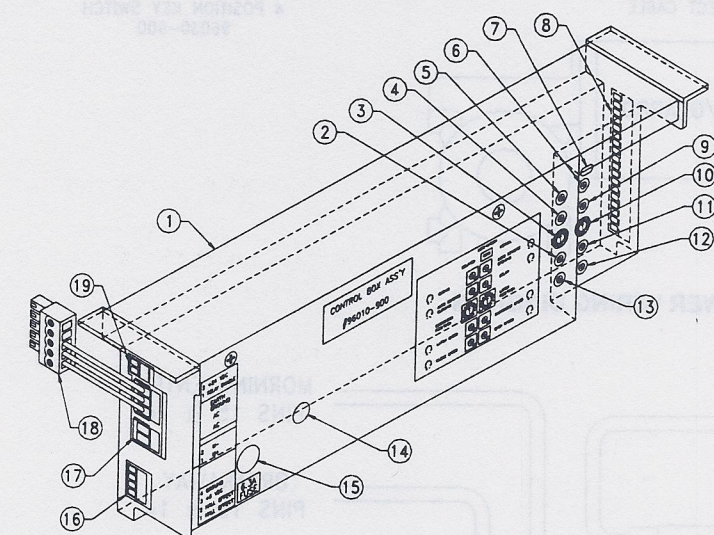
Safety Beam Shut-Off: When the door is fully closed, the safety beam signal is disregarded so that it cannot be used to open the door. Once the door is activated, the safety beam signal is allowed to re-open the door if either safety beam is interrupted during the closing cycle.

5. **Morning Entry:** When morning entry is used with a 4-way switch, the door will activate regardless of the position of the switch.

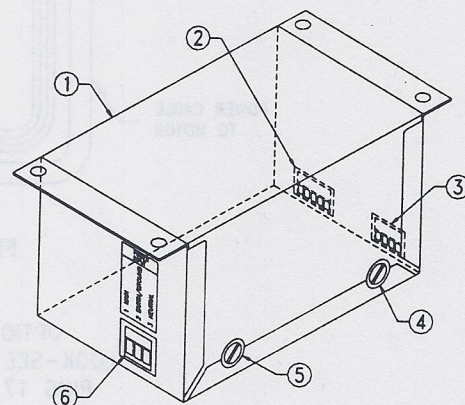
DO'S AND DON'TS

1. **Do Not** try to use this operator on large, heavy doors without checking with the factory first.
2. **Do Not** connect any remote activating device to the door unless it is located within the "line of sight" of the door.
3. **Do Not** attempt to use a fuse larger than specified.
4. **Do Not** attempt to modify the factory wiring or connect any wiring into an existing electrical circuit or any other electrical device.
5. **Do** make certain that the operator is connected to a dedicated 115 volt circuit from the main circuit breaker panel.
6. **Do** make certain that the operator is properly grounded with a separate green wire.
7. **Do** make certain that all connections are proper and secure before turning the power on.
8. **Do** make certain that all wires are properly dressed and secured to prevent any interference.
9. **Do** make certain that all safety labels and instruction decals relating to door operation are properly applied to the door before leaving the job.
10. **Do** verbally instruct the owner or person in charge of the proper operation of the door.
11. **Do** disconnect main power to the operator prior to servicing or cleaning.
12. **Do** instruct the owner or person in charge of his responsibility of inspecting the door for the following:
 - A. Occasional damage
 - B. Developing problems
 - C. Minor preventative maintenance
 - D. Who and where to call for service when required

DIAGRAMS



- | | |
|--|---|
| 1. SERIES 96000 SLIDE CONTROL BOX #96010-900 | 11. BACKCHECK SPEED ADJUSTMENT (P3) |
| 2. LATCH SPEED ADJUSTMENT (P5) | 12. OPENING SPEED ADJUSTMENT (P2) |
| 3. BACKCHECK POSITION SELECTOR DIAL (SW2) | 13. CLOSING SPEED ADJUSTMENT (P4) |
| 4. AUTO REVERSE CLOSING ADJUSTMENT (P7) | 14. CIRCUIT BREAKER, 4 AMP |
| 5. SIZING ADJUSTMENT (P6) | 15. FUSE, 6.3 AMP (DOM #87083-600) (BUSS #GDCT6.3AL250V) |
| 6. AUTO REVERSE OPENING ADJUSTMENT (P8) | 16. 4-PIN CONNECTOR, HALL EFFECT |
| 7. ACTIVATION SWITCH - NORMAL/DELAYED (SW3) | 17. 2-PIN CONNECTOR, TO MOTOR |
| 8. 18-PIN CONNECTOR, ACCESSORIES | 18. 5-PIN CONNECTOR, POWER INPUT |
| 9. DELAY ADJUSTMENT (P1) | 19. 2-PIN CONNECTOR (SMALL), ELECTRIC LOCK SIGNAL |
| 10. LATCH POSITION SELECTOR DIAL (SW1) | |



- | | |
|--|---|
| 1. SERIES 96000 SLIDE TRANSFORMER BOX # 96005-900 | 4. FUSE, 2.5 AMP (DOM # 96012-600) (LITTELFUSE # 239 02.5) |
| 2. 5-PIN CONNECTOR, POWER TO CONTROL BOX # 96010-900 | 5. FUSE, 2 AMP (DOM # 96011-600) (LITTELFUSE # 239 002) |
| 3. 4-PIN CONNECTOR, POWER TO ACCESSORIES | 6. 3-PIN CONNECTOR, POWER INPUT 115V |

FIGURE 1: CONTROL BOX & TRANSFORMER BOX DETAILS

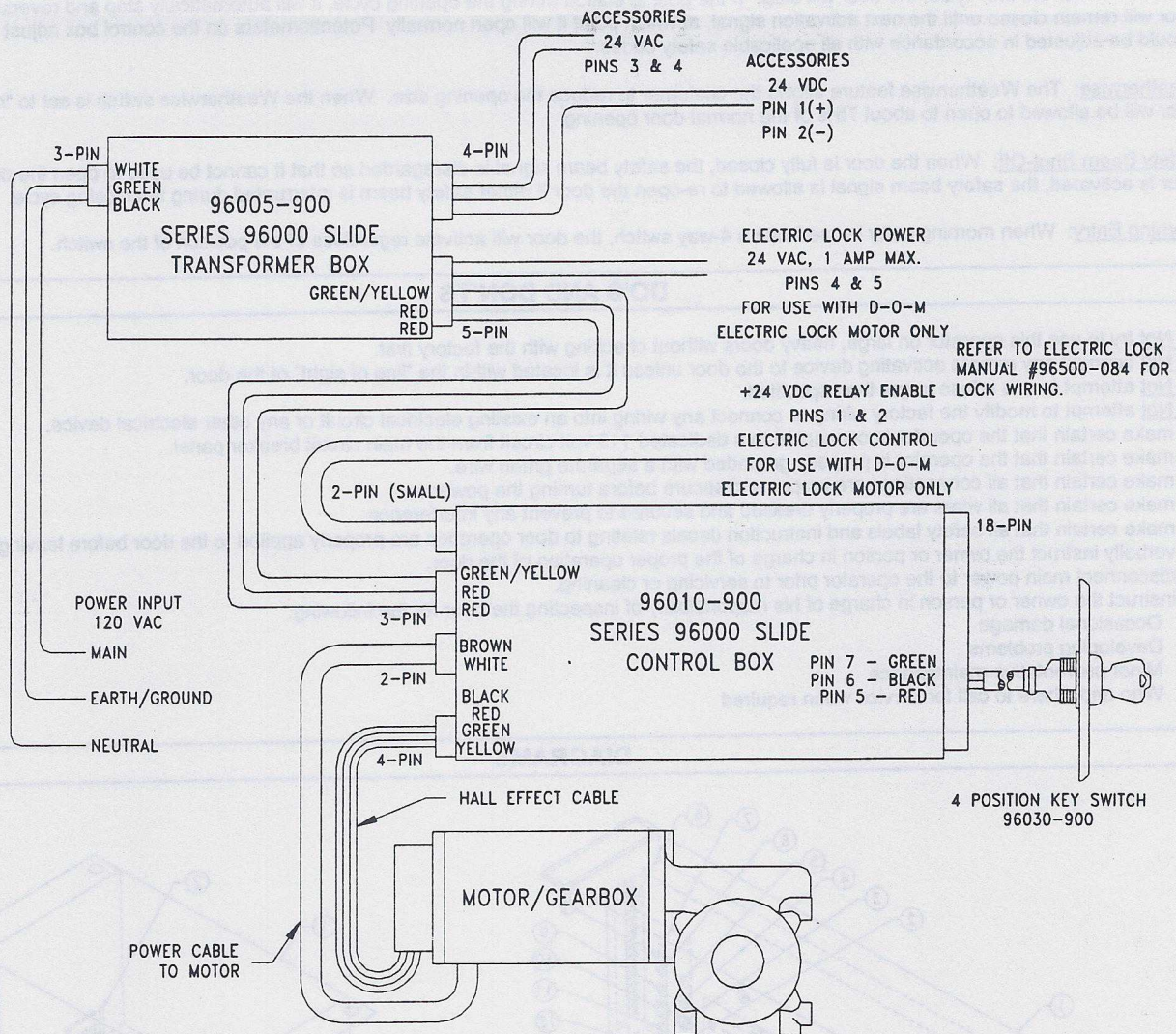


FIGURE 2: POWER WIRING DIAGRAM

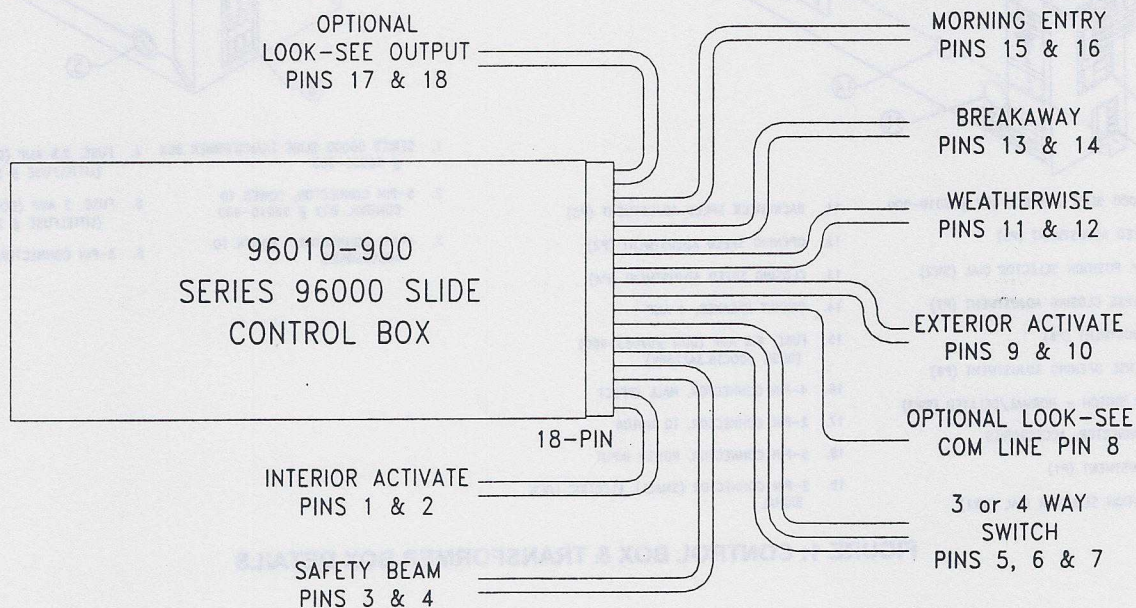


FIGURE 3: ACCESSORIES WIRING DIAGRAM

FAIL SAFE & FAIL SECURE ELECTRIC LOCKS

These Dor-O-Matic Electric Lock Systems are designed for use with a Dor-O-Matic Quantum-Slide operator and Dor-O-Matic four-position key switch 96030-900. Refer to the following chart for door and lock functions.

| 96500-900 Fail Safe Electric Lock | | 96550-900 Fail Secure Electric Lock | |
|-----------------------------------|---|-------------------------------------|---|
| Key Position | Operation | Key Position | Operation |
| Off | Door is locked. Inside activation and outside activation are both non-functional. | Off | Door is locked. Inside activation and outside activation are both non-functional. |
| 1-Way | Inside Activation: Door is locked until activation, at which point door unlocks and opens. Outside Activation: Door is locked. Outside activation is non-functional. | 1-Way | Inside Activation: Door is locked until activation, at which point door unlocks and opens. Outside Activation: Door is locked. Outside activation is non-functional. |
| 2-Way | Door is unlocked. Both inside activation and outside activation are functional. | 2-Way | Door is unlocked. Both inside activation and outside activation are functional. |
| Hold Open | Door is unlocked and held open indefinitely. | Hold Open | Door is unlocked and held open indefinitely. |
| No power to door | Door is unlocked | No power to door | Door is locked |

Note: When morning entry is used with either of the above electric locks and a 4-position key switch, the door will activate regardless of the position of the key switch.

ELECTRIC LOCK WIRE DIAGRAM

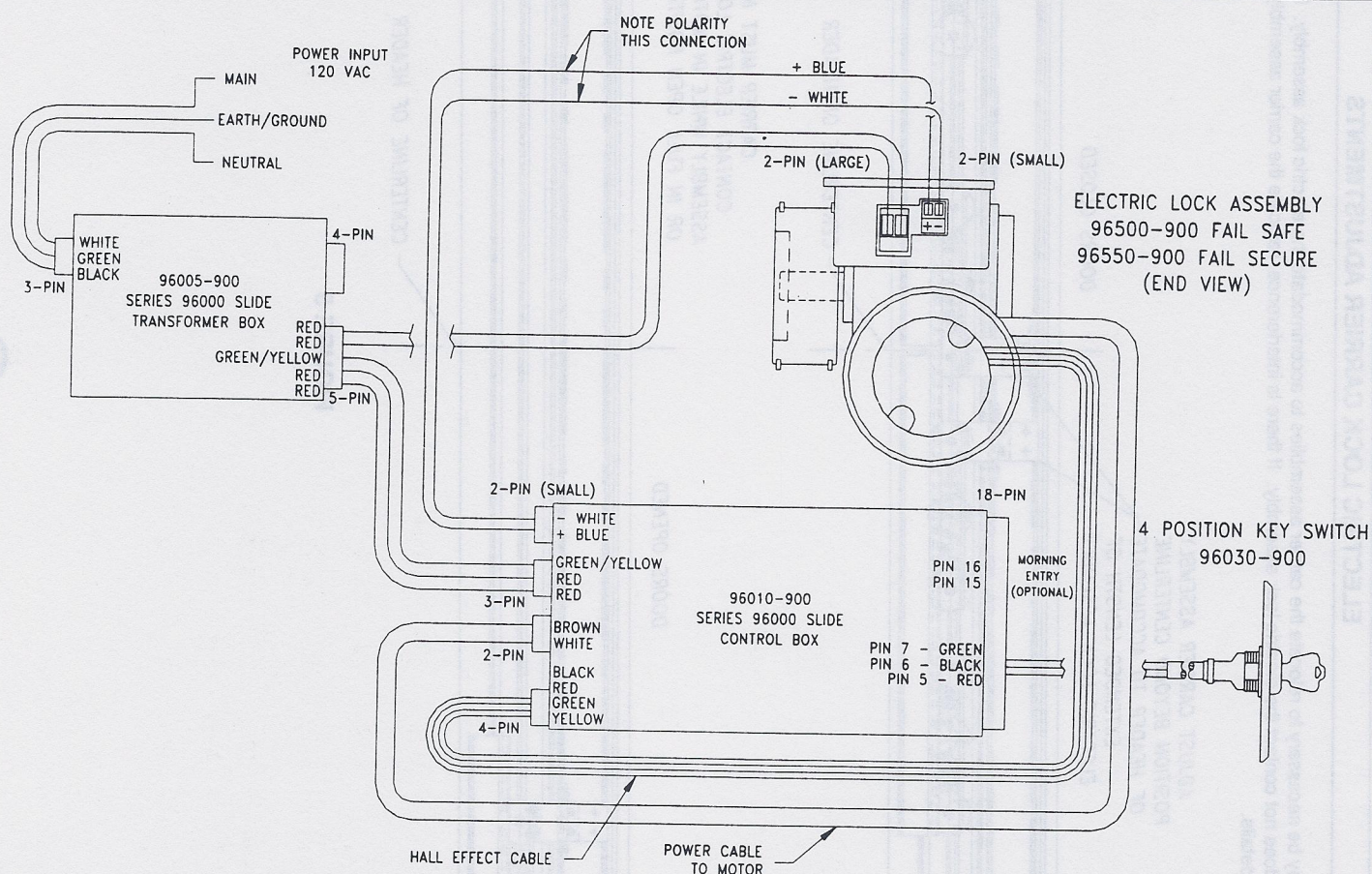


FIGURE 4

ELECTRIC LOCK CARRIER ADJUSTMENTS

On header lengths under 9 ½ feet, it may be necessary to relocate the carrier assemblies to accommodate the electric lock assembly. Prior to operating the door, manually open the door to the full open position. Check to see that the carrier assembly does not contact the electric lock assembly. If there is interference, relocate the carrier assembly beyond the centerline of the header to prevent interference. Refer to Figure 5 below for details.

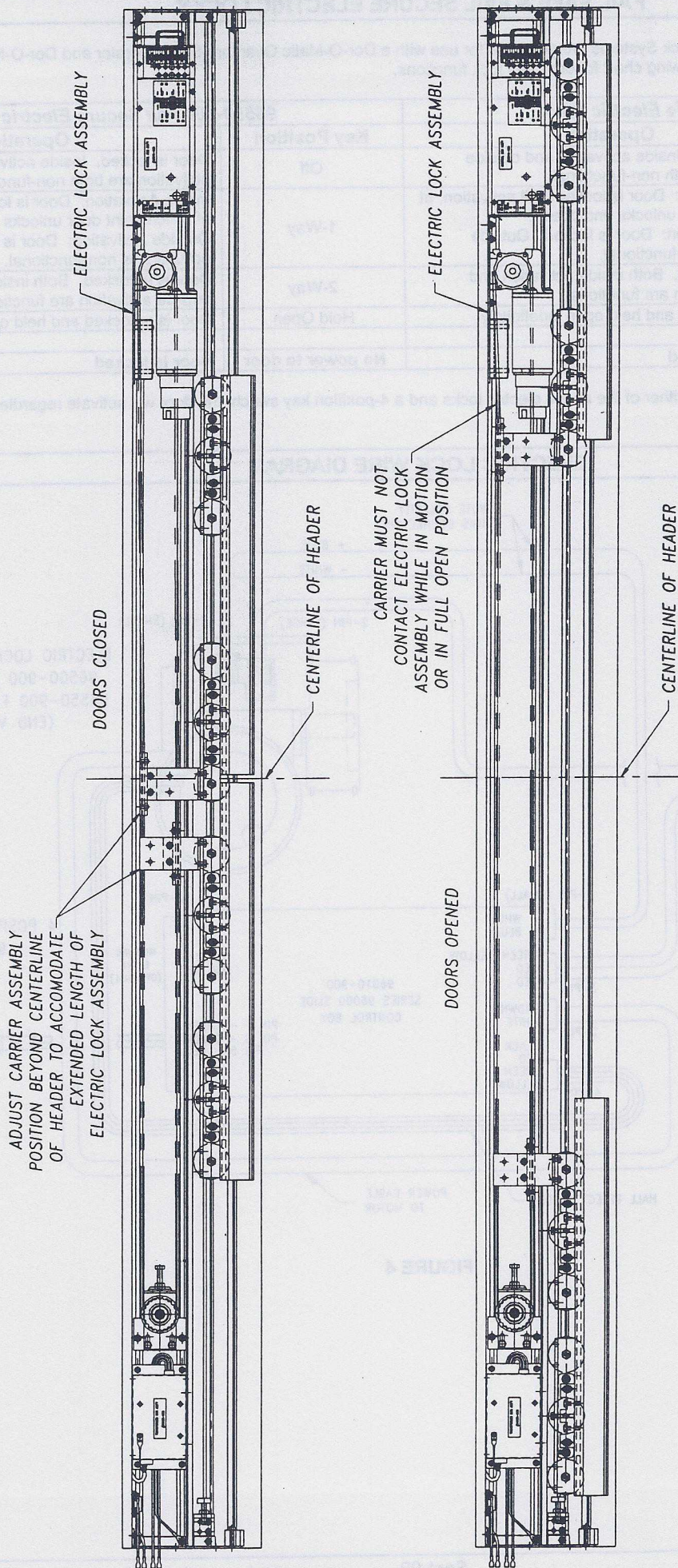


FIGURE 5



DOR-O-MATIC™

INGERSOLL-RAND

ARCHITECTURAL HARDWARE

Series 96000 Sliding Door

Parts Manual

DOR - O - MATIC™

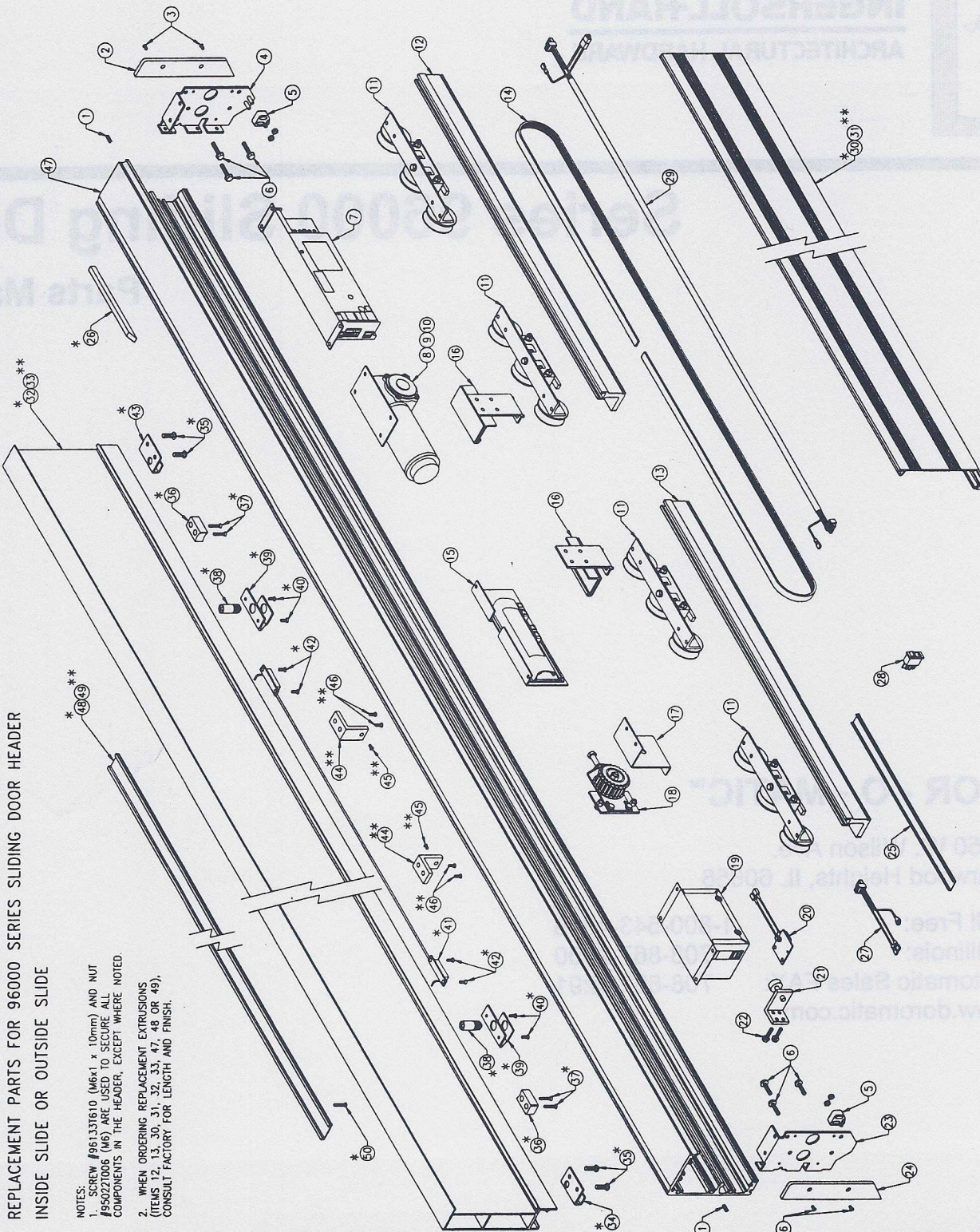
7350 W. Wilson Ave.
Harwood Heights, IL 60656

Toll Free: 1-800-543-4635
In Illinois: 708-867-7400
Automatic Sales FAX: 708-867-0291
www.doromatic.com

HEADER - INSIDE & OUTSIDE SLIDE

REPLACEMENT PARTS FOR 96000 SERIES SLIDING DOOR HEADER INSIDE SLIDE OR OUTSIDE SLIDE

- NOTES:
1. SCREW #961331610 (M6x1 x 10mm) AND NUT #95021006 (M6) ARE USED TO SECURE ALL COMPONENTS IN THE HEADER, EXCEPT WHERE NOTED.
2. WHEN ORDERING REPLACEMENT EXTRUSIONS (ITEMS 12, 13, 30, 31, 32, 33, 47, 48 OR 49), CONSULT FACTORY FOR LENGTH AND FINISH.



| ITEM | PART No. | DESCRIPTION |
|------|------------|--|
| 1 | 96213-100 | COVER BUMPER |
| 2 | 96189-100 | END CAP, RIGHT HAND |
| 3 | 96076-600 | END CAP SCREW |
| 4 | 96122-000 | END BRACKET, RIGHT HAND |
| 5 | 96219-100 | COVER LOCK |
| 6 | 96077-600 | HEADER MOUNT SCREW |
| 7 | 96010-900 | CONTROL BOX |
| 8 | 96175-000 | MOTOR & PLATE ASSEMBLY |
| 9 | 96550-000 | MOTOR & PLATE ASSEMBLY, FAL SAFE |
| 10 | 96550-000 | MOTOR & PLATE ASSEMBLY, FAL SECURE |
| 11 | 96135-000 | ROLLER ASSEMBLY |
| 12 | 96289-1XX | ANGLE, LEFT HAND MACHINED |
| 13 | 96289-1XX | ANGLE, RIGHT HAND MACHINED |
| 14 | 420410683 | BELTING |
| 15 | 96185-000 | PENCIL BEAM ASSEMBLY |
| 16 | 96110-000 | BELT CLAMP ASSEMBLY |
| 17 | 96316-600 | TENSIONER COVER |
| 18 | 96105-000 | TENSIONER ASSEMBLY |
| 19 | 96005-900 | TRANSFORMER BOX |
| 20 | 96173-000 | TERMINAL BLOCK ASSEMBLY |
| 21 | 96125-000 | BUMPER STOP ASSEMBLY |
| 22 | 961331614 | M6.1 x 14mm HEX HEAD BOLT |
| 23 | 96121-000 | END BRACKET, LEFT HAND |
| 24 | 96188-100 | END CAP, LEFT HAND |
| 25 | 96214-100 | WIRE COVER |
| 26 | 96022-100 | TOP PINOT REMOVAL TOOL |
| 27 | 96172-000 | TRANSFORMER - SWITCH CABLE |
| 28 | 76307-600 | ROCKER SWITCH |
| 29 | 96171000 | TRANSFORMER - CONTROL CABLE |
| 30 | 96246-1XX | COVER, BI-PART INSIDE SLIDE |
| 31 | 96187-1XX | COVER, BI-PART OUTSIDE SLIDE |
| 32 | 96226-1XX | EXTENSION, BI-PART INSIDE SLIDE |
| 33 | 96238-1XX | EXTENSION, BI-PART OUTSIDE SLIDE |
| 34 | 96176-100 | PINOT BRACKET, LEFT HAND |
| 35 | 4299100748 | 1/4-20 x 5/8 PHILLIPS TAPITE SCREW |
| 36 | 4204100116 | STOP BLOCK |
| 37 | 4299100747 | 1/4-20 x 3/4 PHILLIPS FLAT HEAD SCREW |
| 38 | 420418246 | BALL DETENT |
| 39 | 4204120310 | BALL DETENT BRACKET |
| 40 | 4299100766 | #10-24 x 3/4 SLOTTED PAN HEAD SCREW |
| 41 | 96020-000 | BREAKAWAY SWITCH ASSEMBLY |
| 42 | 4299100789 | #6-32 x 1/2 PHILLIPS ROUND HEAD SCREW |
| 43 | 96177-100 | PINOT BRACKET, RIGHT HAND |
| 44 | 4204103028 | FIXED PANEL BRACKET |
| 45 | 4299100878 | 1/4-20 x 1/2 SLOTTED FLAT HEAD SCREW |
| 46 | 4299100074 | 1/4-20 x 1/2 PHILLIPS ROUND HEAD SCREW |
| 47 | 96243-1XX | HEADER, MACHINED |
| 48 | 4204108816 | SLIDE COVER, INSIDE SLIDE |
| 49 | 4204104195 | SLIDE COVER, OUTSIDE SLIDE |
| 50 | 4299100213 | 1/4-20 FLAT HEAD SCREW |

NOTE:
* = USED ON INSIDE SLIDE ONLY
** = USED ON OUTSIDE SLIDE ONLY

96460

REPLACEMENT PARTS FOR 96000 SERIES SLIDING DOOR FRAME
BI-PART INSIDE SLIDE WITH TRANSOM

NOTES:

3. CONSULT FACTORY
FOR APPLICATIONS
WITHOUT TRANSOM.

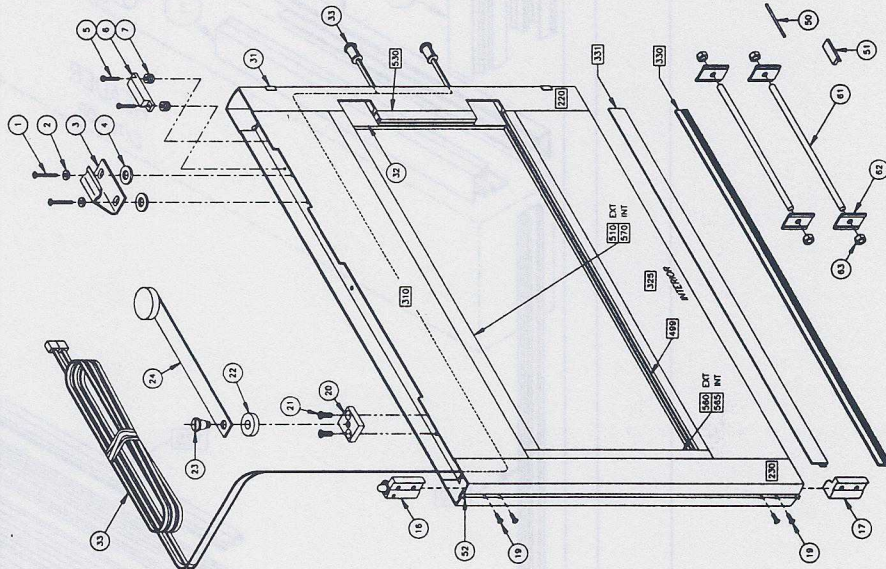


RIGHT HAND DOOR AND PANEL – INSIDE SLIDE

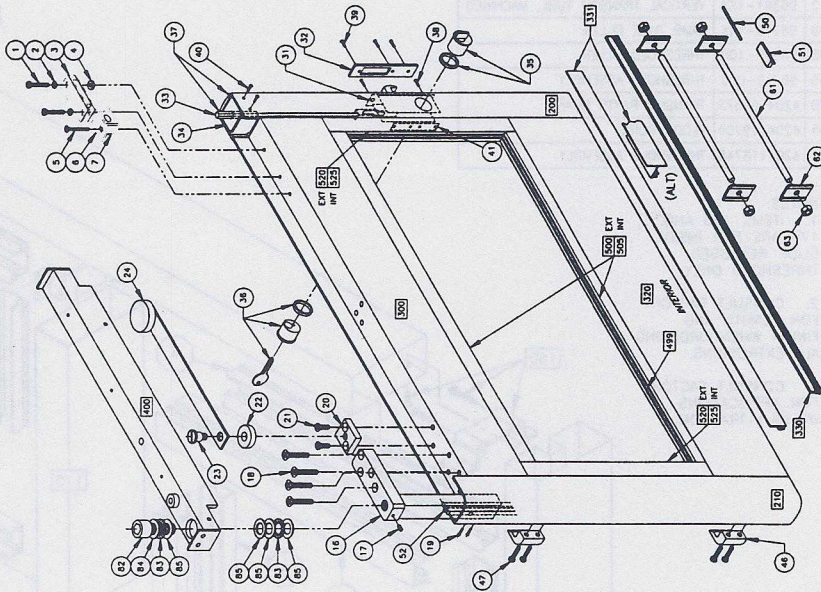
REPLACEMENT PARTS FOR 96000 SERIES RIGHT HAND PANEL BI-PART INSIDE SLIDE ONLY

| ITEM | PART No. | DESCRIPTION |
|------|------------|---------------------------------|
| 1 | 4299100766 | #10-24 PAN HEAD SCREW |
| 2 | 4299100488 | #10 LOCK WASHER |
| 3 | 4204120369 | CATCH BRACKET |
| 4 | 4299100100 | 5/16" FLAT WASHER |
| 5 | 4299100806 | #8-32 SELF-IMP SCREW |
| 6 | 4201102864 | WASHER - #17 REED |
| 7 | 4204102065 | SPACER |
| 16 | 4204109771 | TOP PIVOT ASSEMBLY, RH PANEL |
| 17 | 4204109772 | BOTTOM PIVOT ASSEMBLY, RH PANEL |
| 19 | 4299100618 | #10-32 THREAD FORMING SCREW |
| 20 | 4204100244 | SPACER BLOCK |
| 21 | 4299100717 | 1/4-20 THREAD FORMING SCREW |
| 22 | 4204100653 | SPACER |
| 23 | 4204100117 | SHOULDER SCREW |
| 24 | 4204110674 | PANEL LIMIT ARM |
| 31 | 4204109798 | CORNER PROTECTOR |
| 32 | 4204101928 | BACK UP PLATE |
| 33 | 96193-600 | TRANSMITTER CABLE - RED |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100769 | SETTING BLOCK BAG |
| 52 | 4204106653 | WEATHERSTRIP - 437 x .470 |
| 61 | 4204100658 | 3/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 83 | 4204100702 | 3/8-16 SCNS NUT |
| 220 | 4204118028 | LOCK STILE, BI-PART RH PANEL |
| 230 | 4204100801 | LAR PANEL PIVOT STILE N/S |
| 310 | 4204120674 | OP RAIL, RH PANEL N/S |
| 325 | 4204110415 | LOWER RAIL, N/S |
| 330 | 4204105860 | SWEEP |
| 331 | 4204110400 | SWEEP HOLDER |
| 499 | 4204102801 | RUBBER WEATHERSTRIP |
| 510 | 4204110810 | GLASS STOP, 5/8" HORIZONTAL |
| 530 | 4204101866 | GLASS STOP, 5/8" VERTICAL |
| 560 | 4204108653 | GLASS STOP, 5/8" VERTICAL |
| 565 | 4204100645 | GLASS STOP, 5/8" HORIZONTAL |
| 570 | 4204101948 | GLASS STOP, 5/8" HORIZONTAL |

NOTES:
PARTS LISTED ARE FOR A US28 RIGHT HAND PANEL (SD) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.



NOTES:
PARTS LISTED ARE FOR A US28 RIGHT HAND PANEL (SD) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.



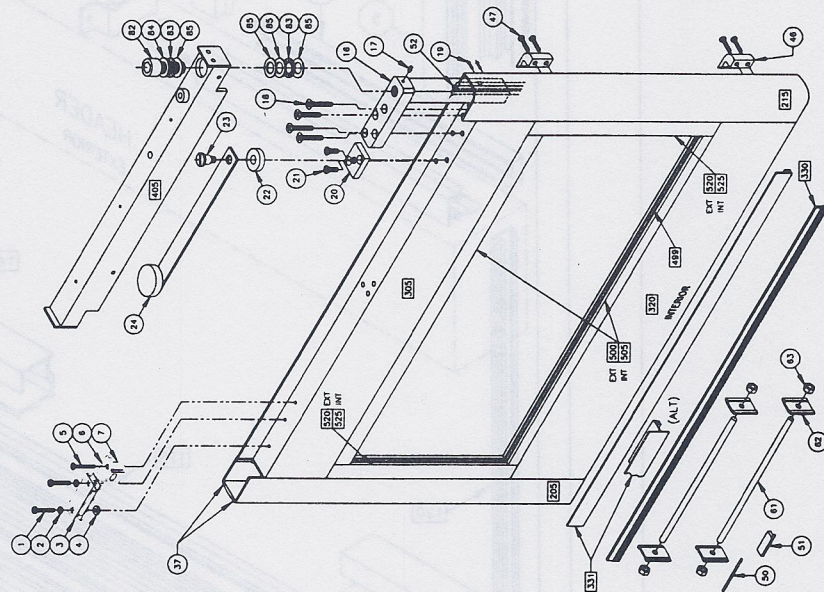
| ITEM | PART No. | DESCRIPTION |
|------|------------|-------------------------------|
| 1 | 4299100766 | #10-24 THREAD FORMING SCREW |
| 2 | 4299100722 | LOCK WASHER |
| 3 | 4204101896 | WASHER |
| 4 | 4204102065 | SPACER |
| 5 | 4299100779 | #10-24 SELF-IMP SCREW |
| 6 | 4204100708 | BRACKET CLIP |
| 7 | 4204100707 | HANGER BLOCK |
| 16 | 4204120520 | COMPOSITE ARM ASSEMBLY |
| 17 | 4299100680 | 1/4-20 ALLEN SET SCREW |
| 18 | 4204100655 | 5/16-24 SOCKET CAP SCREW |
| 19 | 4299100163 | 1/4-20 FLAT HEAD SCREW |
| 20 | 4204120521 | SPACER BLOCK |
| 21 | 4299100002 | 1/4-20 FLAT HEAD SCREW |
| 22 | 4204100653 | SPACER |
| 33 | 4204100117 | SHOULDER SCREW |
| 34 | 4204110668 | DOOR LIMIT ARM |
| 31 | 4204110670 | DEAD LOCK ASSEMBLY |
| 32 | 4204117088 | FACE PLATE |
| 33 | 4204102225 | THRESHOLD BOLT |
| 34 | 4204102224 | ROD GUIDE |
| 35 | 4204101362 | THUMB TURN |
| 36 | 4204101170 | LOCKING CYLINDER |
| 37 | 4204100898 | WEATHERSTRIP |
| 38 | 4299100778 | #10-32 FLAT HEAD SCREW |
| 39 | 4299101312 | #8-32 FLAT HEAD SCREW |
| 40 | 4299100753 | #10-32 FLAT HEAD SCREW |
| 41 | 4204100718 | DOOR LOCK SHIM |
| 46 | 4204101930 | HOOK LOCK |
| 47 | 4299100747 | 1/4-20 THREAD FORMING SCREW |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100769 | SETTING BLOCK BAG |
| 52 | 4204106653 | WEATHERSTRIP - 437 x .470 |
| 61 | 4204100658 | 3/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SCNS NUT |
| 82 | 4204101892 | 3/4-10 SOCKET CAP SCREW |
| 83 | 4204100803 | NEEDLE THRUST BEARING |
| 84 | 4204100888 | CARRIER THRUST RACE WASHER |
| 85 | 4204100888 | THRUST RACE WASHER |
| 200 | 4204118930 | LOCK STILE, RH BI-PART W/LOCK |
| 210 | 4204102030 | PIVOT STILE, RH DOOR N/S |
| 300 | 4204110019 | TOP RAIL, RH DOOR |
| 320 | 4204110415 | LOWER RAIL, N/S |
| 330 | 4204105860 | SWEEP |
| 331 | 4204110400 | SWEEP HOLDER |
| 400 | 96296-00X | CARRIER ASSEMBLY, RH BI-PART |
| 499 | 4204102801 | WEATHERSTRIP |
| 500 | 4204110810 | GLASS STOP, 5/8" HORIZONTAL |
| 505 | 4204108653 | GLASS STOP, 5/8" HORIZONTAL |
| 520 | 4204110865 | GLASS STOP, 5/8" VERTICAL |
| 525 | 4204100645 | GLASS STOP, 5/8" VERTICAL |

96462

LEFT HAND DOOR AND PANEL – INSIDE SLIDE

REPLACEMENT PARTS FOR 96000 SERIES LEFT HAND DOOR BI-PART INSIDE SLIDE ONLY

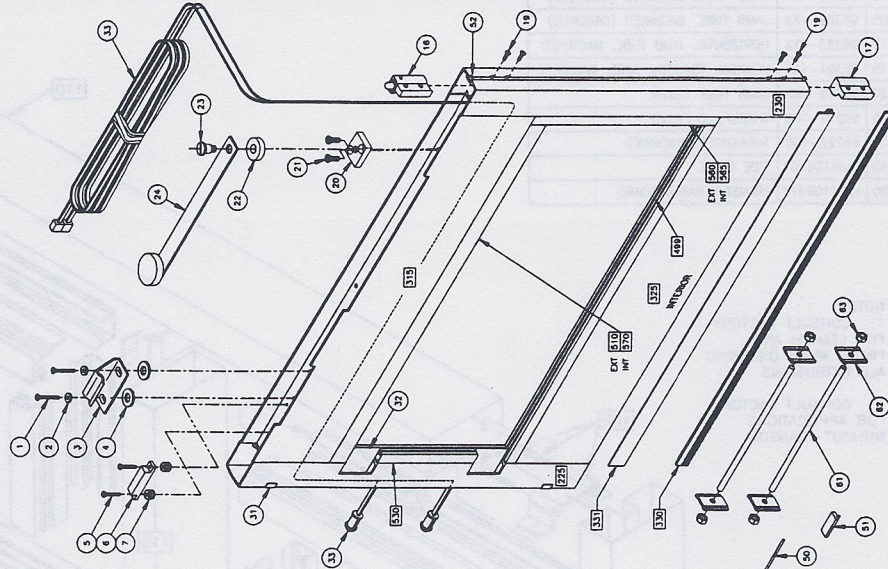
NOTES:
1. PARTS LISTED ARE FOR A US28 LEFT HAND DOOR (SX) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.



| ITEM | PART No. | DESCRIPTION |
|------|------------|------------------------------|
| 1 | 4299100786 | #10-24 THREAD FORMING SCREW |
| 2 | 4299100772 | LOCK WASHER |
| 3 | 4204101996 | MAGNET |
| 4 | 4204102005 | SPACER |
| 5 | 4299100779 | #10-24 SELF-TAP SCREW |
| 6 | 4204100708 | BRACKET CLIP |
| 7 | 4204100707 | WASHER BLOCK |
| 16 | 4204102050 | COMPOSITE ARM ASSEMBLY |
| 17 | 4299100690 | 1/4-20 ALLEN SET SCREW |
| 18 | 4204100655 | 5/16-24 SOCKET CAP SCREW |
| 19 | 4299100165 | 1/4-20 FLAT HEAD SCREW |
| 20 | 4204100521 | SPACER BLOCK |
| 21 | 4299100022 | 1/4-20 FLAT HEAD SCREW |
| 22 | 4204100063 | SPACER |
| 23 | 4204100147 | SHOULDER SCREW |
| 24 | 4204100666 | DOOR LIMIT ARM |
| 37 | 4204100698 | WEATHERSTRIP |
| 46 | 4204101930 | HOOK LOCK |
| 47 | 4299100747 | 1/4-20 THREAD FORMING SCREW |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 52 | 4204100653 | WEATHERSTRIP, 437 x .470 |
| 61 | 4204100658 | 3/8 ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SENS NUT |
| 82 | 4204101992 | 3/4-10 SOCKET CAP SCREW |
| 83 | 4204100067 | NEEDLE THRUST BEARING |
| 84 | 4204100688 | CARRIER THRUST RACE WASHER |
| 85 | 4204100068 | THRUST RACE WASHER |
| 205 | 4204116954 | LOCK STILE, LH BI-PART |
| 215 | 4204102032 | PHOT STILE, LH DOOR |
| 320 | 4204110052 | TOP RAIL, LH DOOR |
| 320 | 4204110415 | LOWER RAIL, N/S |
| 330 | 4204105980 | SWEET |
| 331 | 4204110400 | SWEET HOLDER |
| 405 | 96282-001 | CARRIER ASSEMBLY, LH BI-PART |
| 499 | 4204102601 | WEATHERSTRIP |
| 500 | 4204110810 | GLASS STOP, 5/8 HORIZONTAL |
| 505 | 4204100653 | GLASS STOP, 5/8 HORIZONTAL |
| 520 | 4204110685 | GLASS STOP, 5/8 VERTICAL |
| 525 | 4204100645 | GLASS STOP, 5/8 VERTICAL |

REPLACEMENT PARTS FOR 96000 SERIES LEFT HAND PANEL BI-PART INSIDE SLIDE ONLY

NOTES:
1. PARTS LISTED ARE FOR A US28 LEFT HAND DOOR (SX) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.



| ITEM | PART No. | DESCRIPTION |
|------|------------|---------------------------------|
| 1 | 4299100786 | #10-24 PHN HEAD SCREW |
| 2 | 4299100489 | #10 LOCK WASHER |
| 3 | 4204102009 | CATCH BRACKET |
| 4 | 4299100100 | 5/16 FLAT WASHER |
| 5 | 4299100806 | #8-32 SELF-TAP SCREW |
| 6 | 4204102854 | MAGNET - #37 RED |
| 7 | 4204102005 | SPACER |
| 16 | 4204100770 | TOP PHOTO ASSEMBLY, LH PANEL |
| 17 | 4204100773 | BOTTOM PHOTO ASSEMBLY, LH PANEL |
| 19 | 4299100616 | #10-32 THREAD FORMING SCREW |
| 20 | 4204100244 | SPACER BLOCK |
| 21 | 4299100747 | 1/4-20 THREAD FORMING SCREW |
| 22 | 4204100063 | SPACER |
| 23 | 4204100147 | SHOULDER SCREW |
| 24 | 4204100674 | PANEL LIMIT ARM |
| 31 | 4204100798 | CORNER PROTECTOR |
| 32 | 4204101929 | BACK UP PLATE |
| 33 | 96192-600 | RECEIVER CABLE - BLUE |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 52 | 4204100653 | WEATHERSTRIP, 437 x .470 |
| 61 | 4204100658 | 3/8 ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SENS NUT |
| 225 | 4204118034 | LOCK STILE, BI-PART LH PANEL |
| 230 | 4204100801 | LH PANEL PHOTO STILE N/S |
| 315 | 4204102875 | TOP RAIL, LH PANEL N/S |
| 325 | 4204110415 | LOWER RAIL N/S |
| 330 | 4204105980 | SWEET |
| 331 | 4204110400 | SWEET HOLDER |
| 499 | 4204102601 | RUBBER WEATHERSTRIP |
| 510 | 4204110810 | GLASS STOP, 5/8 HORIZONTAL |
| 530 | 4204101966 | GLASS STOP, 5/8 VERTICAL |
| 560 | 4204110685 | GLASS STOP, 5/8 VERTICAL |
| 565 | 4204100645 | GLASS STOP, 5/8 VERTICAL |
| 570 | 4204101948 | GLASS STOP, 5/8 HORIZONTAL |

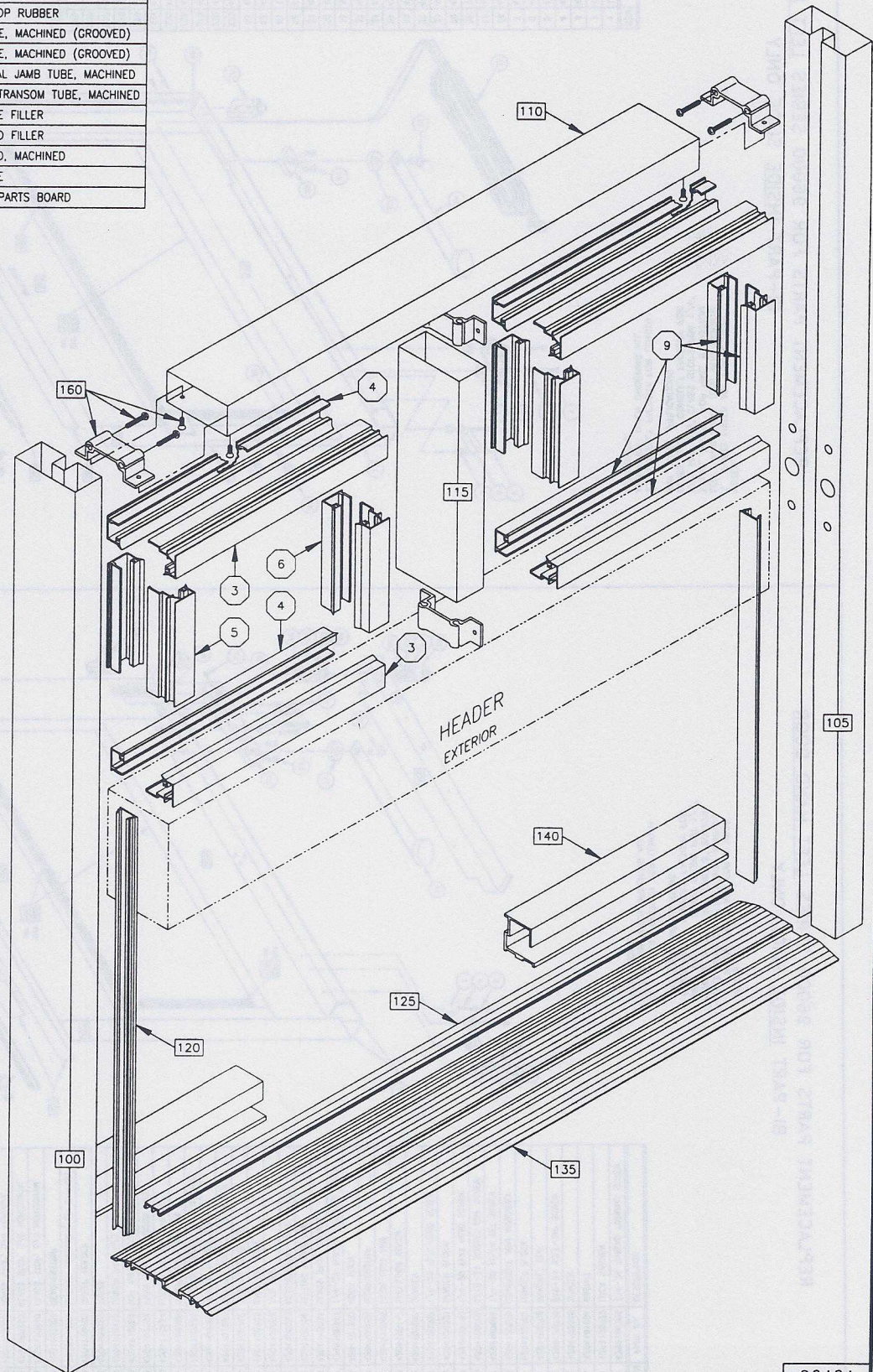
96463

FRAME WITH TRANSOM - OUTSIDE SLIDE

| ITEM | US 28 | DESCRIPTION |
|------|------------|---------------------------------|
| 3 | 66414-1XX | GLASS STOP, TRANSOM |
| 4 | 66416-1XX | GLASS STOP, TRANSOM |
| 5 | 66415-1XX | GLASS STOP, TRANSOM |
| 6 | 66417-1XX | GLASS STOP, TRANSOM |
| 9 | 4204113931 | GLASS STOP RUBBER |
| 100 | 96389-1XX | JAMB TUBE, MACHINED (GROOVED) |
| 105 | 96389-1XX | JAMB TUBE, MACHINED (GROOVED) |
| 110 | 96393-1XX | HORIZONTAL JAMB TUBE, MACHINED |
| 115 | 96391-1XX | VERTICAL TRANSOM TUBE, MACHINED |
| 120 | 96216-1XX | JAMB TUBE FILLER |
| 125 | 96217-100 | THRESHOLD FILLER |
| 135 | 96222-100 | THRESHOLD, MACHINED |
| 140 | 4204106107 | SIDE GUIDE |
| 160 | 4204109373 | TRANSOM PARTS BOARD |

REPLACEMENT PARTS FOR 96000 SERIES SLIDING DOOR FRAME BI-PART OUTSIDE SLIDE WITH TRANSOM

- NOTES:
1. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.
 2. CONSULT FACTORY FOR APPLICATIONS WITHOUT TRANSOM.



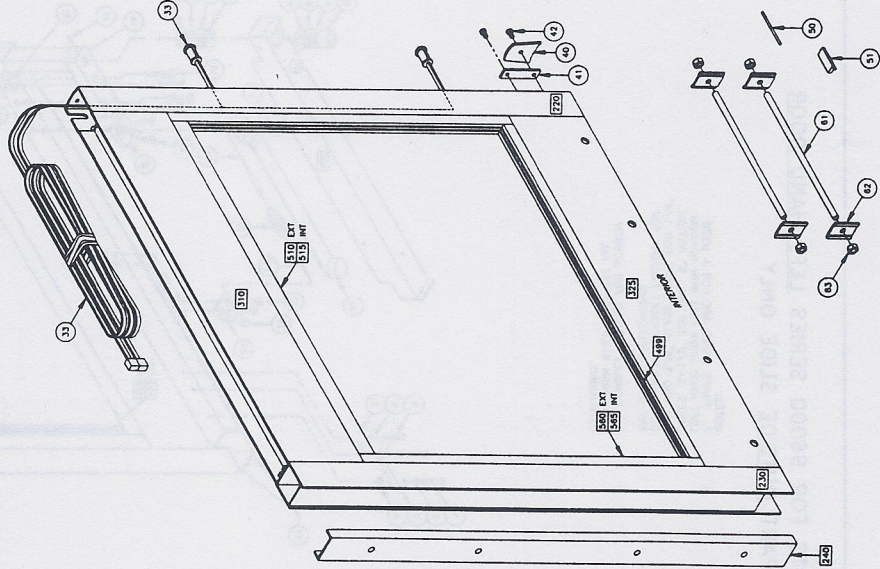
96464

RIGHT HAND DOOR AND PANEL - OUTSIDE SLIDE

REPLACEMENT PARTS FOR 96000 SERIES RIGHT HAND PANEL BI-PART OUTSIDE SLIDE ONLY

| ITEM | PART No. | DESCRIPTION |
|------|------------|----------------------------------|
| 33 | 96193-600 | TRANSMITTER CABLE - RED |
| 40 | 4204120557 | END CAP |
| 41 | 4204120564 | END CAP BRACKET |
| 42 | 4299101302 | #8-32 PAN HEAD SCREW |
| 50 | 420415034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 61 | 4204100658 | 1/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SEMS NUT |
| 220 | 4204100600 | LOCK STILE, BI-PART RH PANEL (O) |
| 230 | 4204104610 | L&R PANEL PIVOT STILE N/S |
| 240 | 4204106064 | ASTRAZAL PANEL |
| 310 | 4204101648 | TOP RAIL PANEL N/S |
| 325 | 4204104569 | BOTTOM RAIL, FIXED PANEL N/S |
| 499 | 4204102601 | RUBBER WEATHERSTRIP |
| 510 | 4204100810 | GLASS STOP, 5/8" HORIZONTAL |
| 515 | 4204100670 | GLASS STOP, 5/8" HORIZONTAL |
| 590 | 4204100685 | GLASS STOP, 5/8" VERTICAL |
| 595 | 4204100645 | GLASS STOP, 5/8" VERTICAL |

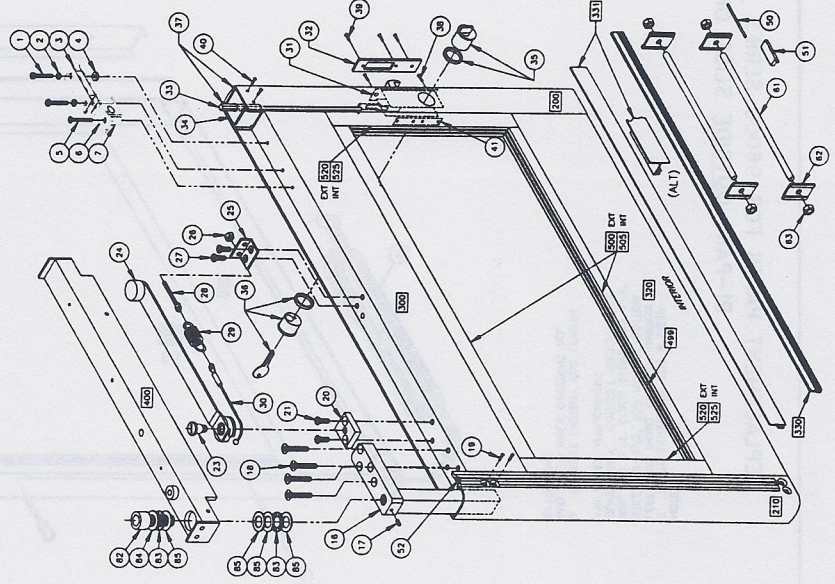
NOTES:
1. PARTS LISTED ARE FOR A US28
RIGHT HAND PANEL (O) WITH NARROW
STILES, 3 1/2" TOP RAIL, BOTTOM
RAIL AND 5/8" GLASS STOPS FOR 1/4"
GLASS ONLY. CONSULT FACTORY FOR
ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH
AND FINISH WHEN ORDERING ALL
EXTRUSIONS.



REPLACEMENT PARTS FOR 96000 SERIES RIGHT HAND DOOR BI-PART OUTSIDE SLIDE ONLY

| ITEM | PART No. | DESCRIPTION |
|------|------------|-------------------------------|
| 1 | 4299100780 | #10-24 THREAD FORMING SCREW |
| 2 | 4299100722 | LOCK WASHER |
| 3 | 4204101996 | WASHER |
| 4 | 4204102095 | SPACER |
| 5 | 4299100779 | #10-24 SELF-TAP SCREW |
| 6 | 4204100708 | BRACKET CLIP |
| 7 | 4204100707 | HANGER BLOCK |
| 16 | 4204120520 | COMPOSITE ARM ASSEMBLY |
| 17 | 4299100890 | 1/4-20 ALLEN SET SCREW |
| 18 | 4204100655 | 5/16-24 SOCKET CAP SCREW |
| 19 | 4299100165 | 1/4-20 FLAT HEAD SCREW |
| 20 | 4204120521 | SPACER BLOCK |
| 21 | 4299100002 | 1/4-20 FLAT HEAD SCREW |
| 23 | 4204106609 | SHOULDER SCREW DOOR PANEL |
| 24 | 4204110871 | SPRING CLOSER ARM, RIGHT HAND |
| 25 | 4204104920 | SPRING BRACKET |
| 26 | 4299100258 | 1/4-20 HEX NUT |
| 27 | 4299100747 | 1/4-20 THREAD FORMING SCREW |
| 28 | 4204104925 | SPRING DRAW SCREW |
| 29 | 4204104921 | EXTENSION SPRINGS |
| 30 | 4204104922 | CABLE ASSEMBLY |
| 31 | 4204110870 | HEAD LOCK ASSEMBLY |
| 32 | 4204110099 | FACE PLATE |
| 33 | 4204102225 | THRESHOLD BOLT |
| 34 | 4204102224 | ROD GUIDE |
| 35 | 4204101362 | 1/4" TUB TURN |
| 36 | 4204101170 | LOCKING CYLINDER |
| 37 | 4204100898 | WEATHERSTRIP |
| 38 | 4299100776 | #10-32 FLAT HEAD SCREW |
| 39 | 4299101312 | #8-32 FLAT HEAD SCREW |
| 40 | 4299100753 | #10-32 FLAT HEAD SCREW |
| 41 | 4204100118 | DOOR LOCK SHIM |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 52 | 4204106653 | WEATHERSTRIP, 437 x 470 |
| 61 | 4204100658 | 3/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SEMS NUT |
| 82 | 4204101992 | 3/4-10 SOCKET CAP SCREW |
| 83 | 4204100087 | NEEDLE THRUST BEARING |
| 84 | 4204106688 | CARRIER THRUST RACE WASHER |
| 85 | 4204100088 | THRUST RACE WASHER |
| 200 | 4204116932 | LOCK STILE, RH BI-PART |
| 210 | 4204105002 | PIVOT STILE, RH DOOR N/S |
| 300 | 4204100119 | TOP RAIL, RH DOOR |
| 320 | 4204104115 | LOWER RAIL, N/S |
| 330 | 4204105940 | SWEEP |
| 331 | 4204104040 | SWEEP HOLDER |
| 400 | 96296-00X | CARRIER ASSEMBLY, RH BI-PART |
| 499 | 4204102601 | WEATHERSTRIP |
| 500 | 4204100810 | GLASS STOP, 5/8" HORIZONTAL |
| 505 | 4204100670 | GLASS STOP, 5/8" HORIZONTAL |
| 520 | 4204100685 | GLASS STOP, 5/8" VERTICAL |
| 525 | 4204100645 | GLASS STOP, 5/8" VERTICAL |

NOTES:
1. PARTS LISTED ARE FOR A US28
RIGHT HAND DOOR (O) WITH NARROW
STILES, 3 1/2" TOP RAIL, BOTTOM
RAIL AND 5/8" GLASS STOPS FOR 1/4"
GLASS ONLY. CONSULT FACTORY FOR
ANY OTHER APPLICATIONS.
2. CONSULT FACTORY FOR LENGTH
AND FINISH WHEN ORDERING ALL
EXTRUSIONS.



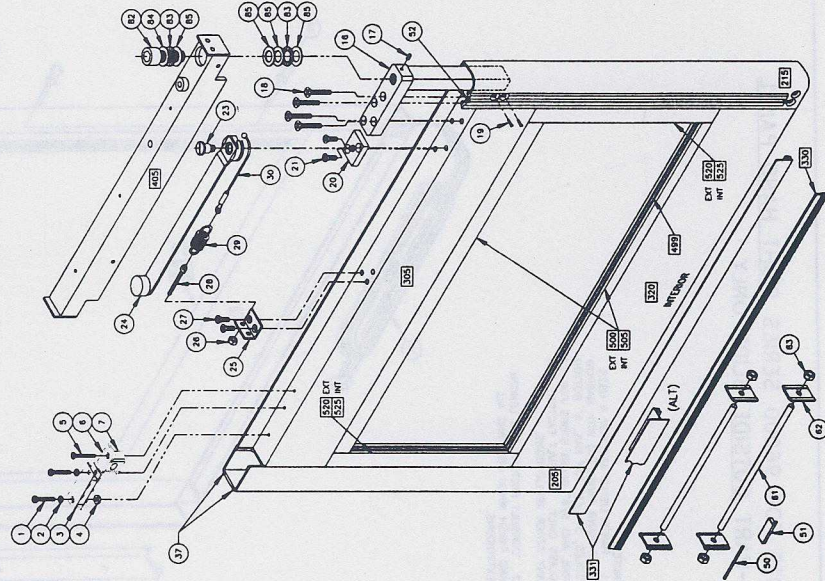
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LEFT HAND DOOR AND PANEL – OUTSIDE SLIDE

REPLACEMENT PARTS FOR 96000 SERIES LEFT HAND DOOR
BI-PART OUTSIDE SLIDE ONLY

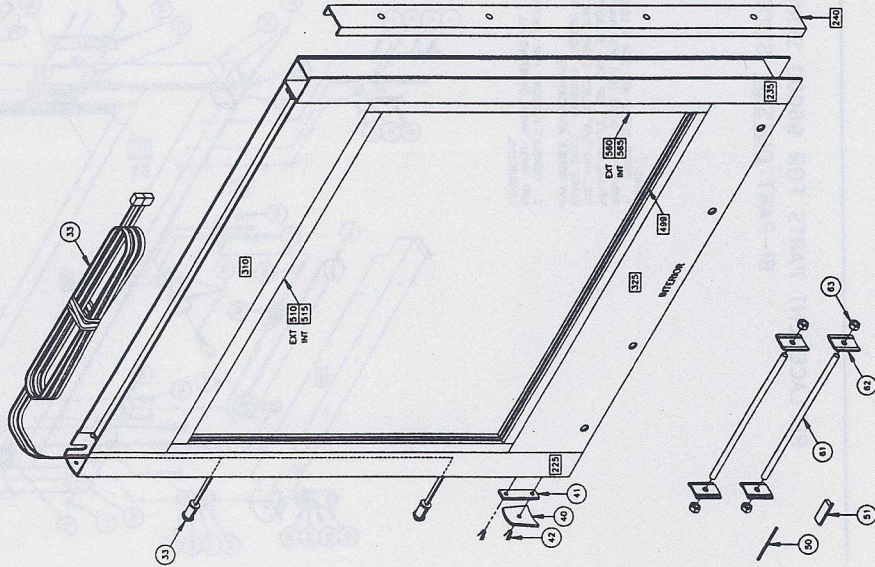
- NOTES:
1. PARTS LISTED ARE FOR A US28 LEFT HAND DOOR (SX) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
 2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.

| ITEM | PART No. | DESCRIPTION |
|------|------------|------------------------------|
| 1 | 4299100760 | 1/0-24 THREAD FORMING SCREW |
| 2 | 4299100722 | LOCK WASHER |
| 3 | 4204101986 | MOCKET |
| 4 | 4204102005 | SPACER |
| 5 | 4299100778 | 1/0-24 SELF-TAP SCREW |
| 6 | 4204100708 | BRACKET CLIP |
| 7 | 4204100707 | HANGER BLOCK |
| 16 | 4204102050 | COMPOSITE ARM ASSEMBLY |
| 17 | 4299100690 | 1/4-20 ALLEN SET SCREW |
| 18 | 4204100655 | 5/16-24 SOCKET CAP SCREW |
| 19 | 4299100165 | 1/4-20 FLAT HEAD SCREW |
| 20 | 4204102051 | SPACER BLOCK |
| 21 | 4299100002 | 1/4-20 FLAT HEAD SCREW |
| 23 | 4204100609 | SHOULDER SCREW, DOOR PANEL |
| 24 | 4204100610 | DOOR LIMIT ARM |
| 25 | 4204100620 | SPRING BRACKET |
| 26 | 4299100725 | 1/4-20 HEX NUT |
| 27 | 4299100747 | 1/4-20 THREAD FORMING SCREW |
| 28 | 4204100925 | SPRING DRAW SCREW |
| 29 | 4204100921 | EXTENSION SPRINGS |
| 30 | 4204100922 | CABLE ASSEMBLY |
| 37 | 4204100898 | WEATHERSTRIP |
| 50 | 4204110034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 52 | 4204100653 | WEATHERSTRIP, 437 x 470 |
| 61 | 4204100658 | 3/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SENS NUT |
| 82 | 4204101992 | 3/4-10 SOCKET CAP SCREW |
| 83 | 4204100087 | NEEDLE THRUST BEARING |
| 84 | 4204100888 | CARRIER THRUST RACE WASHER |
| 85 | 4204100088 | THRUST RACE WASHER |
| 205 | 4204110954 | LOCK STILE, LH BI-PART N/S |
| 215 | 4204105000 | PMOT STILE, LH DOOR N/S |
| 305 | 4204110052 | TOP RAIL, LH DOOR |
| 320 | 4204110415 | LOWER RAIL, N/S |
| 330 | 4204105800 | SWEET |
| 331 | 4204110440 | SWEET HOLDER |
| 405 | 96282-00X | CARRIER ASSEMBLY, LH BI-PART |
| 499 | 4204102801 | WEATHERSTRIP |
| 500 | 4204110810 | GLASS STOP, 5/8" HORIZONTAL |
| 505 | 4204108953 | GLASS STOP, 5/8" HORIZONTAL |
| 520 | 4204110665 | GLASS STOP, 5/8" VERTICAL |
| 525 | 4204100845 | GLASS STOP, 5/8" VERTICAL |



- NOTES:
1. PARTS LISTED ARE FOR A US28 LEFT HAND PANEL (O) WITH NARROW STILES, 3-1/2" TOP RAIL, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.
 2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.

| ITEM | PART No. | DESCRIPTION |
|------|------------|----------------------------------|
| 33 | 96192-600 | RECEIVER CABLE - BLUE |
| 40 | 4204102067 | END CAP |
| 41 | 4204102064 | END CAP BRACKET |
| 42 | 4299101302 | 1/8-32 PAN HEAD SCREW |
| 50 | 4204115034 | GLASS STOP ANCHOR |
| 51 | 4204100709 | SETTING BLOCK BAG |
| 61 | 4204100658 | 3/8" ROD |
| 62 | 4204100703 | BACK UP PLATE |
| 63 | 4204100702 | 3/8-16 SENS NUT |
| 225 | 4204100666 | LOCK STILE, BI-PART LH PANEL (O) |
| 235 | 4204104616 | LH PANEL PMOT STILE N/S |
| 240 | 4204100864 | ASTRICAL PANEL |
| 310 | 4204101648 | TOP RAIL, PANEL N/S |
| 325 | 4204104569 | BOTTOM RAIL, FIXED PANEL N/S |
| 499 | 4204102801 | RUBBER WEATHERSTRIP |
| 510 | 4204110810 | GLASS STOP, 5/8" HORIZONTAL |
| 515 | 4204100670 | GLASS STOP, 5/8" HORIZONTAL |
| 580 | 4204110865 | GLASS STOP, 5/8" VERTICAL |
| 585 | 4204100845 | GLASS STOP, 5/8" VERTICAL |



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