DOR-O-MATIC™

INGERSOLL-RAND

ARCHITECTURAL HARDWARE

Series 96000 Sliding Door

Installation Instructions and Service Manual

DOR - O - MATIC™

7350 W. Wilson Ave.
Harwood Heights, IL 60656

Toll Free:	1-800-543-4635
In Illinois:	708-867-7400
Sales FAX:	708-867-0291

www.doromatic.com

96000-984 REV. A

Sept-99

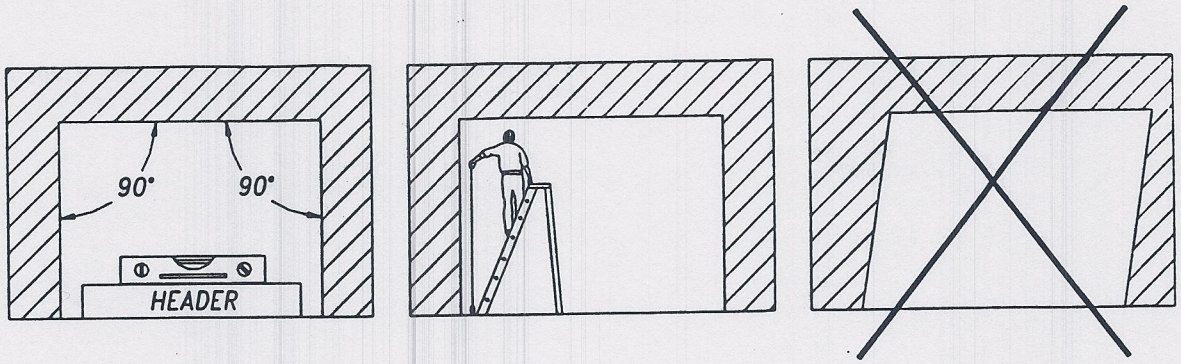


FIGURE 2: Check Rough Opening

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).

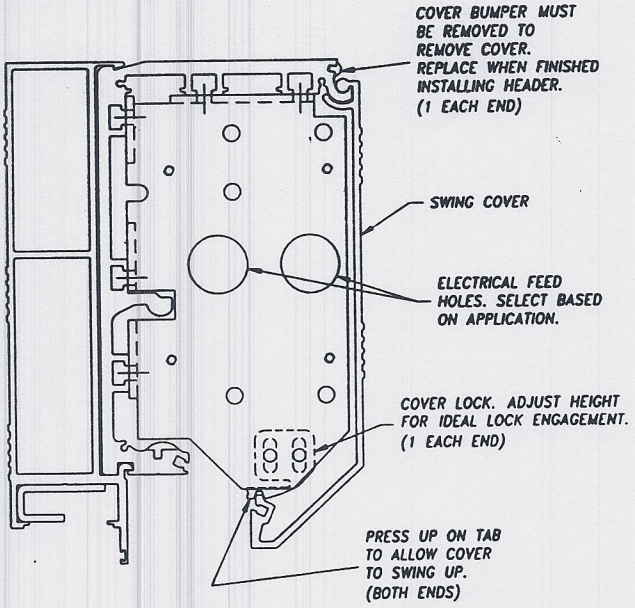


FIGURE 3: Cover Removal

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 ¼-20 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).

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

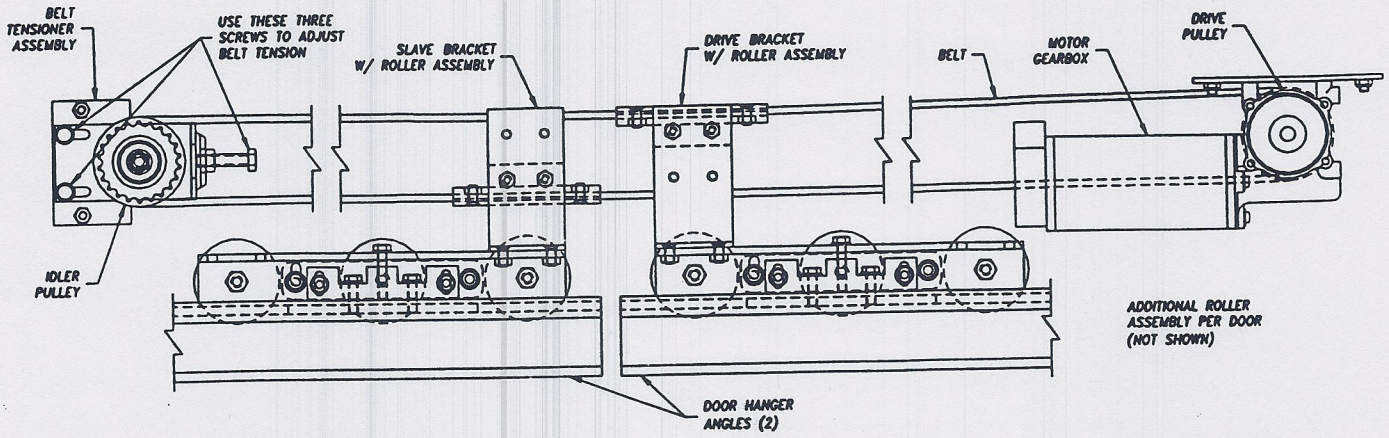


FIGURE 6: Belt Drive Assembly

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

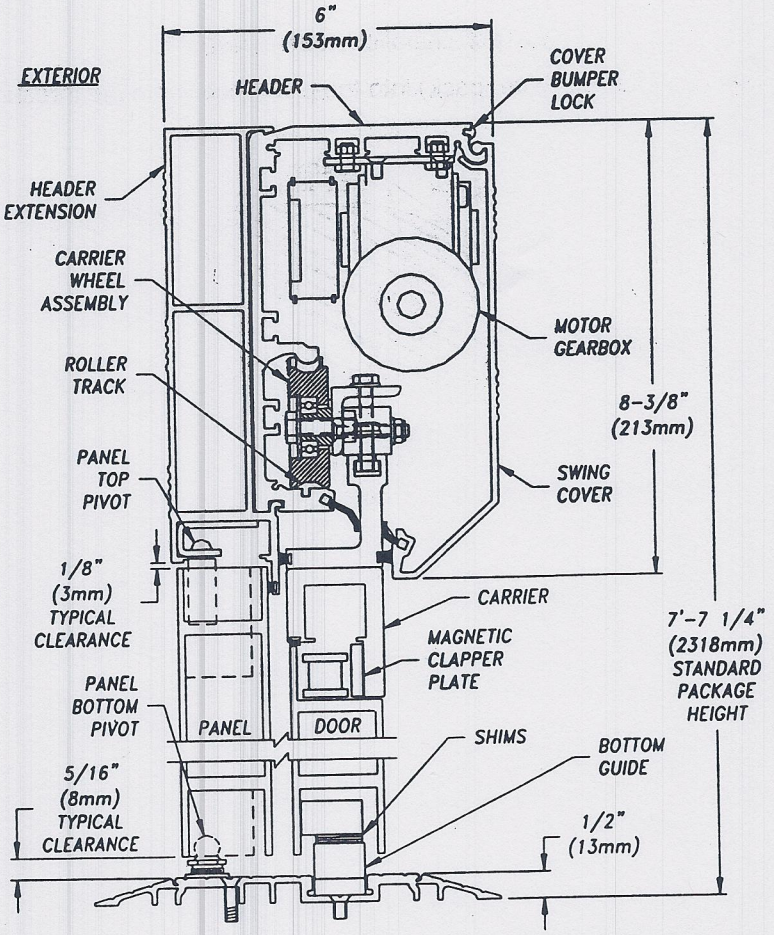


FIGURE 7: Section View through Header, Door and Panel

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.

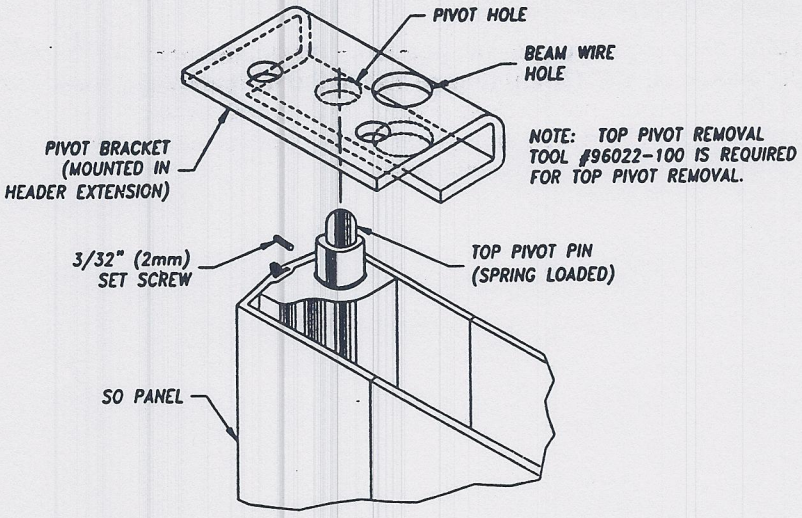


FIGURE 10: Panel Top Pivot Detail

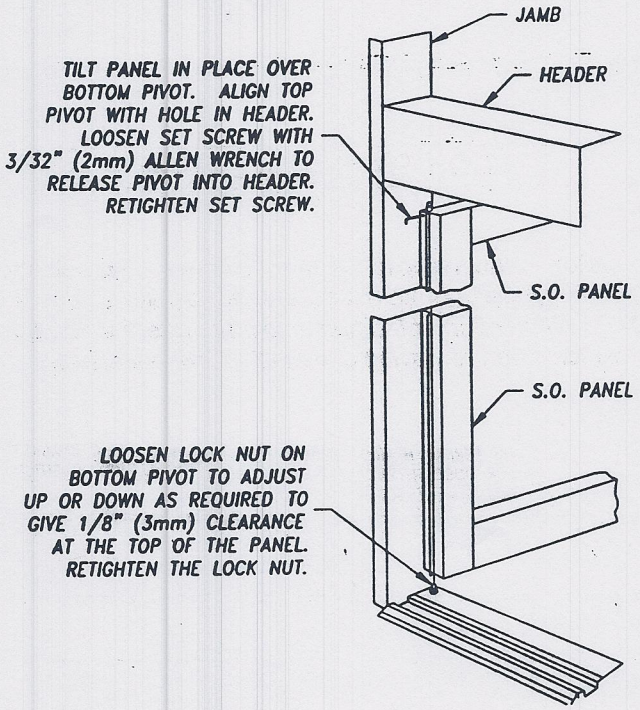
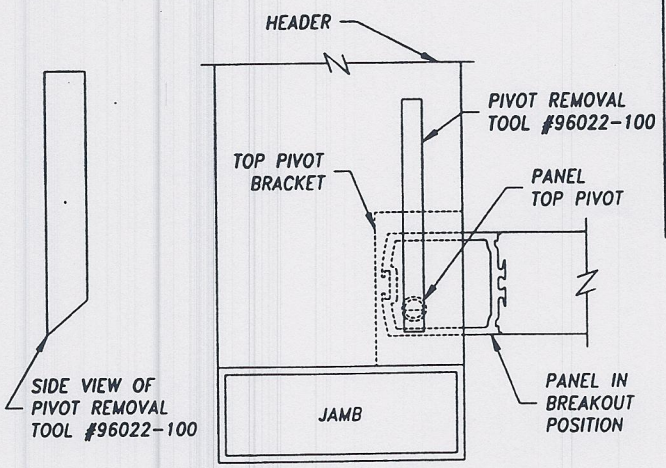


FIGURE 11: Panel Installation Detail



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

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 ¼-20 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.

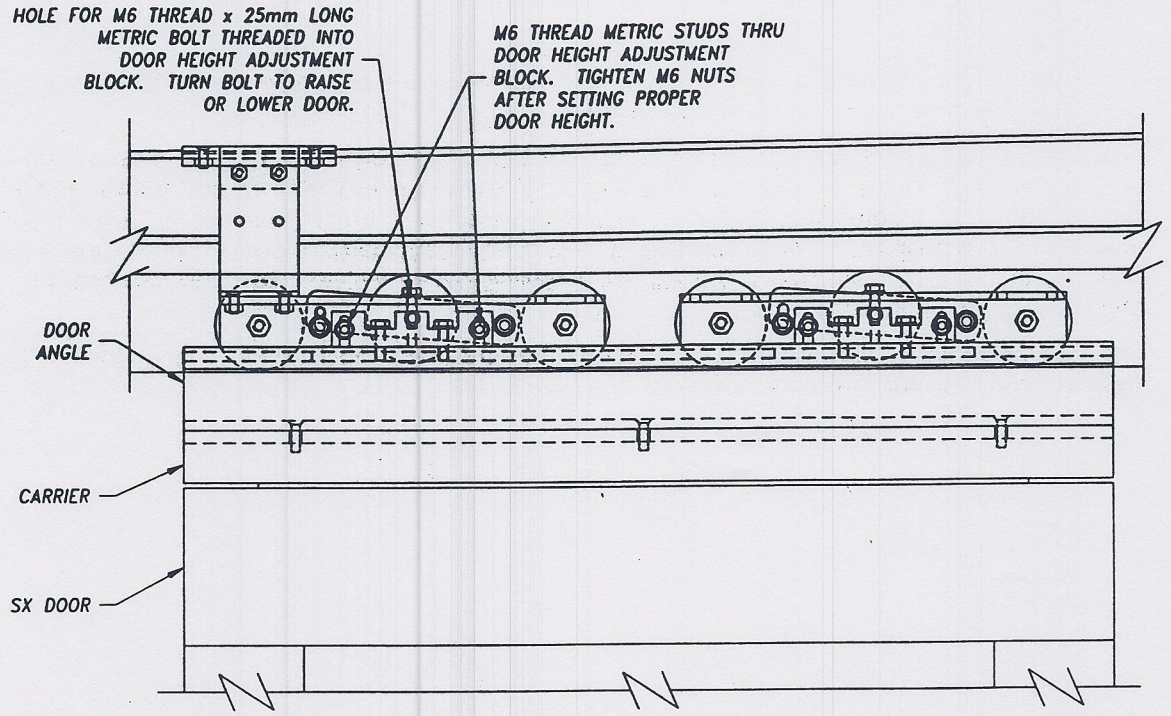


FIGURE 15: Door (SX) Height Adjustment

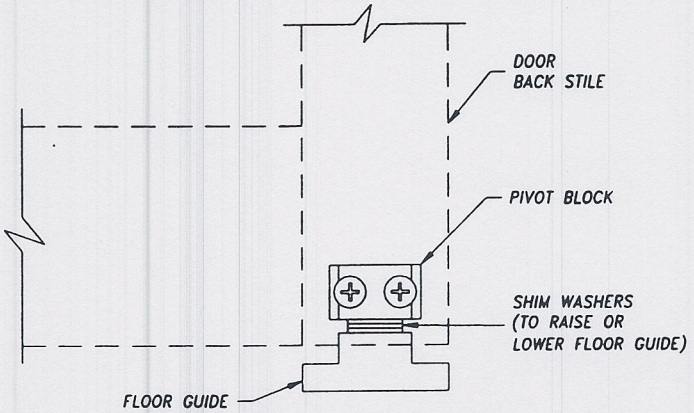


FIGURE 16: Installation of Door (SX) Bottom Pivot Assembly

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

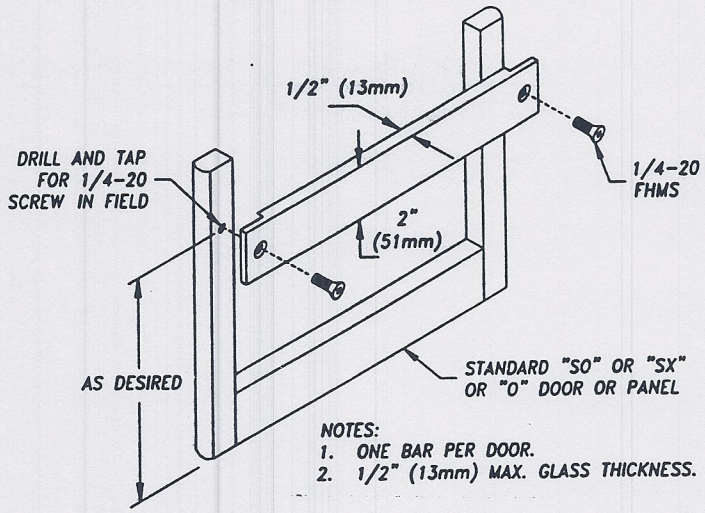


FIGURE 19: Bumper Bar Installation

WIRE DIAGRAM

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

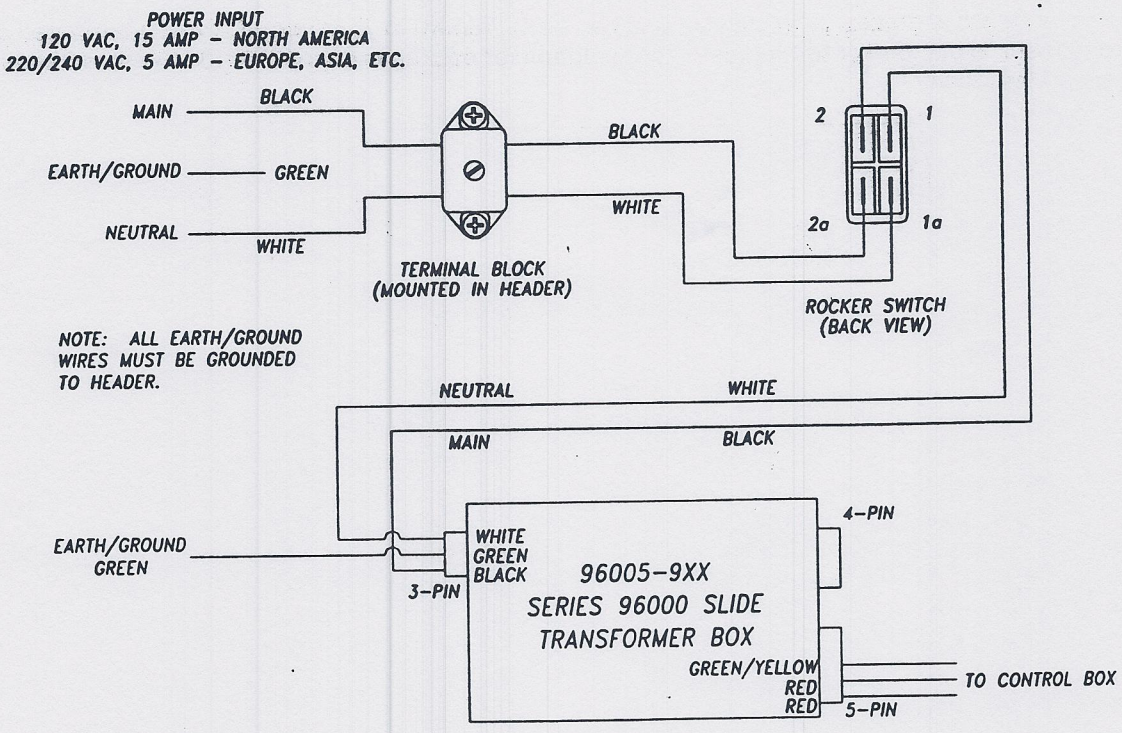


FIGURE 20: Series 96000 Slide Wiring Diagram

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

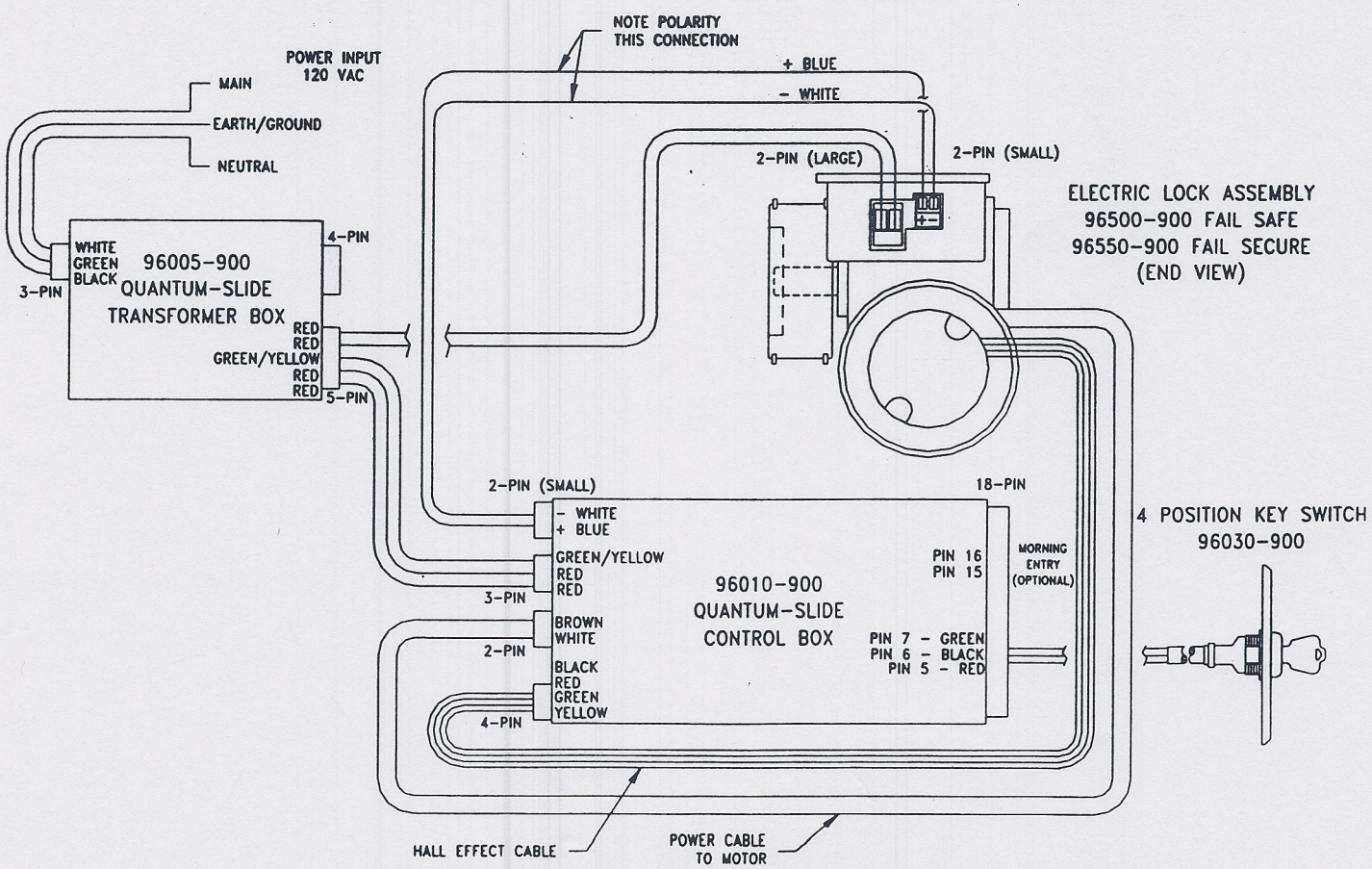


FIGURE 1

DOR-O-MATIC™

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ARCHITECTURAL HARDWARE

Series 96000 Slide Control Box

Control Box 96010-900
Transformer Box 96005-900
Installation Instructions

DOR - O - MATIC™

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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.

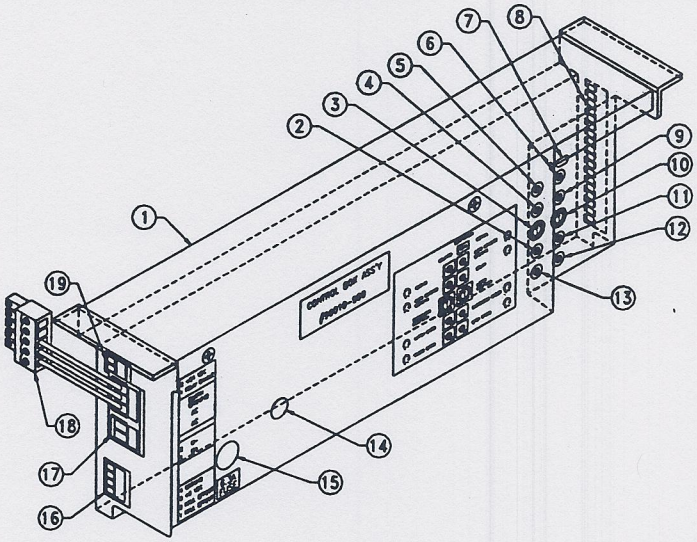
Safety Beam Shut-Off: When the door is fully closed, the safety beam signal is disregarded so that it cannot be used to open the door. Once the door is activated, the safety beam signal is allowed to re-open the door if either safety beam is interrupted during the closing cycle.

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

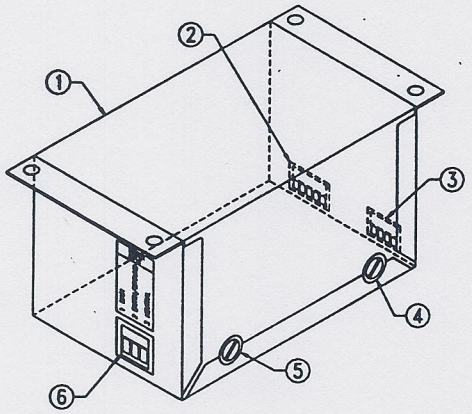
DO'S AND DON'TS

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



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

FIGURE 1: CONTROL BOX & TRANSFORMER BOX DETAILS

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.

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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

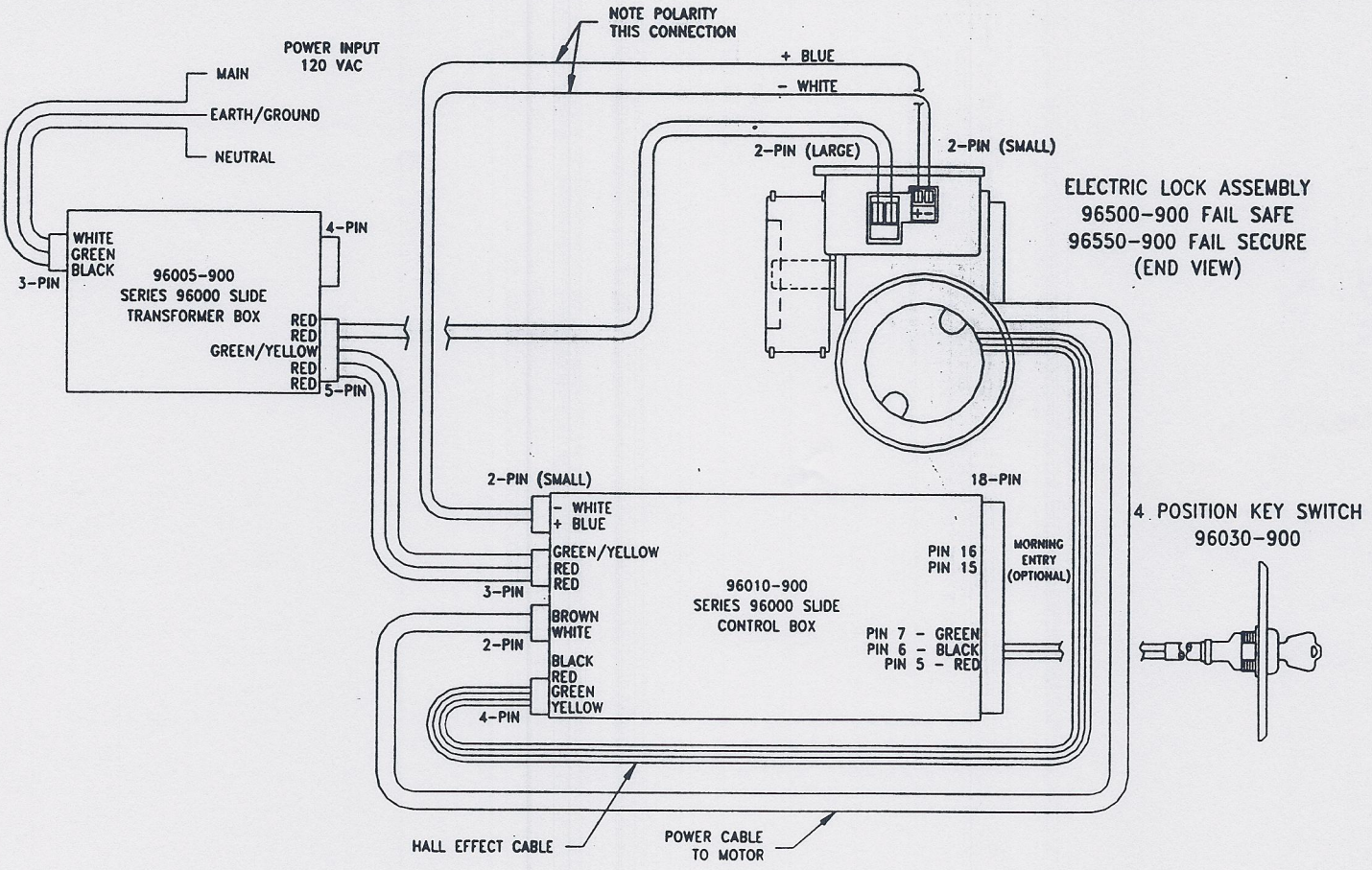

FIGURE 4

Old style

Dor-O-Matic

96K TROUBLE-SHOOTING CHART

PROBLEM	TEST	CAUSE	SOLUTION
Door will not open or close.	1) Check on-off-hold open switch and on-off switch.	Switch is in off position.	Place switch in "on" position.
	2) Check circuit breaker and fuse.	Circuit breaker tripped. Fuse blown.	Push circuit breaker into on position and replace fuse.
	3) Set VOM to 120 volts AC scale. Place meter probes on transformer panel. If meter does not read 117 volts....	Power supply has been interrupted. Circuit breaker at main panel tripped.	Reset main panel breaker.
	4) Turn off power. Disconnect breakout switch leads from terminal 14 & 15 at control box. With VOM check continuity across leads. If meter reads infinite OHMS...., (Note: Make sure that S.O. panels are closed when checking continuity.	Breakout switches and/or leads are open.	Replace switches and/or leads.
	5) Shut power off. Remove both fuses from control box and transformer panel. If fuse reads infinite OHMS....	Fuses open.	Replace fuse.
	6) Place jumper across terminals 1 & 2 of control box. If door opens....	Activation Device is inoperative.	Replace activation device.
	7) If after performing the above tests and the control box does not open when sensor is activated.....	Control box is faulty.	Replace control box.
	8) Turn off power. Remove fuse from control box. Check for continuity with VOM meter. If meter reads infinite OHMS....	Open fuse holder.	Replace control box.
	9) Activate sensor and check voltage @ terminals m- and m+. No voltage.	Control box failure.	Replace control box.
	10) Turn off power. Disconnect plug connector from m- and m+. Check each wire to ground. If OHMS reading is detected....	Motor shorted to ground.	Replace motor gearbox.
Door does not open, but motor runs.	1) Disconnect belt from pulley. Turn pulley if no resistance.	Pulley stripped from motor.	Replace motor gearbox.
Door opens, starts to close and then recycles.	1) Move doors manually and if doors don't open freely....	Doors binding or debris in track.	Adjust doors and remove debris from track.
Door holding open.	1) Disconnect activation sensor. If door closes...	Faulty activation sensor.	Replace activation device.

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96K TROUBLE-SHOOTING CHART (Cont'd)

PROBLEM	TEST	CAUSE	SOLUTION
Door holding open.	2) Disconnect threshold sensor. If door closes....	Faulty threshold sensor.	Replace threshold sensor.
	3) Disconnect doorway holding beams. If door closes...	Holding beam failure.	Replace complete holding beam system.
Door does not close completely.	1) Pull door closed and check hook locks and if dragging...	Door catching on panel.	Adjust hooks and recheck.
Door slams on opening cycle.	1) Turn off power. Turn power on. Door will not program.	Motor encoder faulty.	Replace motor gearbox.
Door slams on closing cycle.	1) Turn off power. Turn power on. Door will not program.	Motor encoder faulty.	Replace motor gearbox.
Door closing speed excessively slow.	1) Turn power off. Turn power on. Door does not size correctly....	Motor encoder faulty.	Replace motor gearbox.
Circuit breaker continues to trip.	1) Check motor continuity with VOM from motor leads to ground. If other than 0 OHMS found...	Motor shorting to ground.	Replace motor gearbox.
	2) Check wires shorting to metal.	Bare wires exposed.	Repair or service wires.

Dor-O-Matic

COMMENTS ON DOOR BINDING

Approximately half of all field problems are related to some type of sliding door binding which in many cases causes premature failure of other parts in the system or improper door operation (sluggish, slow, erratic, or "just not quite right").

Service personnel **must** take the **time necessary** to check for and correct any blinding conditions that exist, or the door problems will continue. With automatic doors, there is no such thing as "that is someone else's problem". The automatic door manufacturer and the service personnel are the responsible parties.

Common causes of binding:

1. Additional sweeps or weather stripping added to door.
2. Rocks, glass or dirt build-up in guide track.
3. Door partially broken away and sagging down on floor.
4. Door rubbing on panel or sidelite.
5. Door dragging on threshold due to:
   - Metal expansion due to heat.
   - Heaving floor due to freezing and thawing.
   - Installing doors over building expansion joints.
6. Loose screws in guide track.
7. Anti-riser screw adjusted too tight.
8. Belt drive adjusted too tight.
9. Bottom lock rods dragging on floor.
10. Uneven floor conditions.
11. Extra floor mats getting caught under door.
12. Ice or snow build-up along bottom guide.
13. Carrier rollers not turning due to:
    - Frozen bearing.
    - Chips or dirt embedded in roller.
    - Bracket screw too long.
14. Belt roller binding.
15. Motor or gearbox damaged and binding up.

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Series 96000 Sliding Door

Parts Manual

DOR - O - MATIC™

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FRAME WITH TRANSOM – INSIDE SLIDE

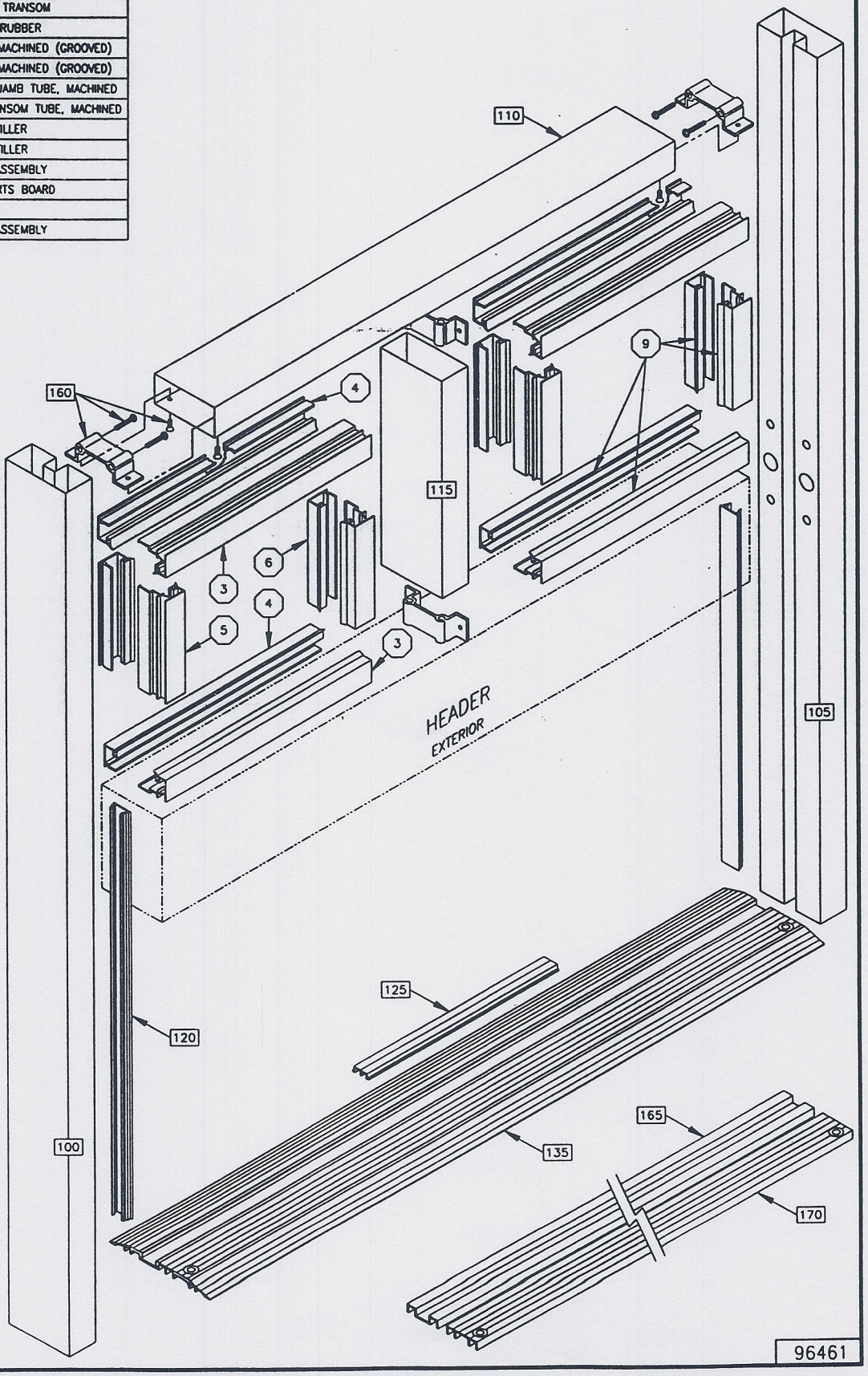
REPLACEMENT PARTS FOR 96000 SERIES SLIDING DOOR FRAME
BI-PART INSIDE SLIDE WITH TRANSOM

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	96317-100	THRESHOLD FILLER
135	96212-000	THRESHOLD ASSEMBLY
160	4204109373	TRANSOM PARTS BOARD
165	4204118709	FLOOR GUIDE
170	4204118748	THRESHOLD ASSEMBLY

NOTES:
1. ITEMS 165 AND 170 ARE FOR INSIDE SLIDE RECESSED THRESHOLD ONLY.

2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.

3. CONSULT FACTORY FOR APPLICATIONS WITHOUT TRANSOM.

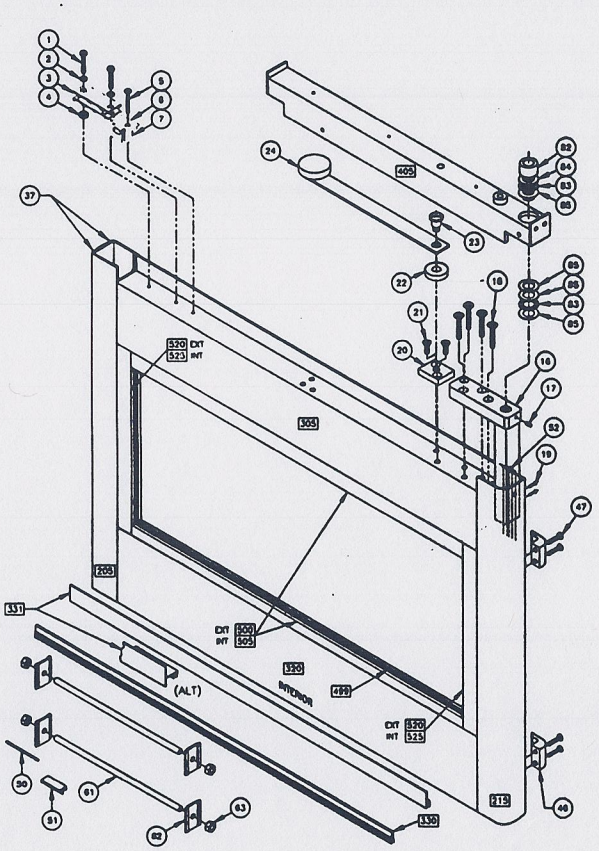


REPLACEMENT PARTS FOR 96000 SERIES LEFT HAND DOOR
BI-PART INSIDE SLIDE ONLY

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	4299100780	#10-24 THREAD FORMING SCREW
2	4299100722	LOCK WASHER
3	4204101996	MAGNET
4	4204102005	SPACER
5	4299100779	#10-24 SELF-TAP SCREW
6	4204100708	BRACKET CLIP
7	4204100707	HANGER BLOCK
16	4204120520	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	4204120521	SPACER BLOCK
21	4299100002	1/4-20 FLAT HEAD SCREW
22	4204100063	SPACER
23	4204100147	SHOULDER SCREW
24	4204110666	DOOR LIMIT ARM
37	4204108696	WEATHERSTRIP
46	4204101930	HOOK LOCK
47	4299100747	1/4-20 THREAD FORMING SCREW
50	4204115034	GLASS STOP ANCHOR
51	4204100709	SETTING BLOCK BAG
52	4204106853	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	4204106888	CARRIER THRUST RACE WASHER
85	4204100088	THRUST RACE WASHER
205	4204116954	LOCK STILE, LH BI-PART
215	4204102032	PIVOT STILE, LH DOOR N/S
305	4204110052	TOP RAIL, LH DOOR
320	4204110415	LOWER RAIL, N/S
330	4204105980	SWEEP
331	4204110400	SWEEP HOLDER
405	96282-000	CARRIER ASSEMBLY, LH BI-PART
499	4204102601	WEATHERSTRIP
500	4204110810	GLASS STOP, 5/8 HORIZONTAL
505	4204108953	GLASS STOP, 5/8 HORIZONTAL
520	4204110665	GLASS STOP, 5/8 VERTICAL
525	4204100645	GLASS STOP, 5/8 VERTICAL

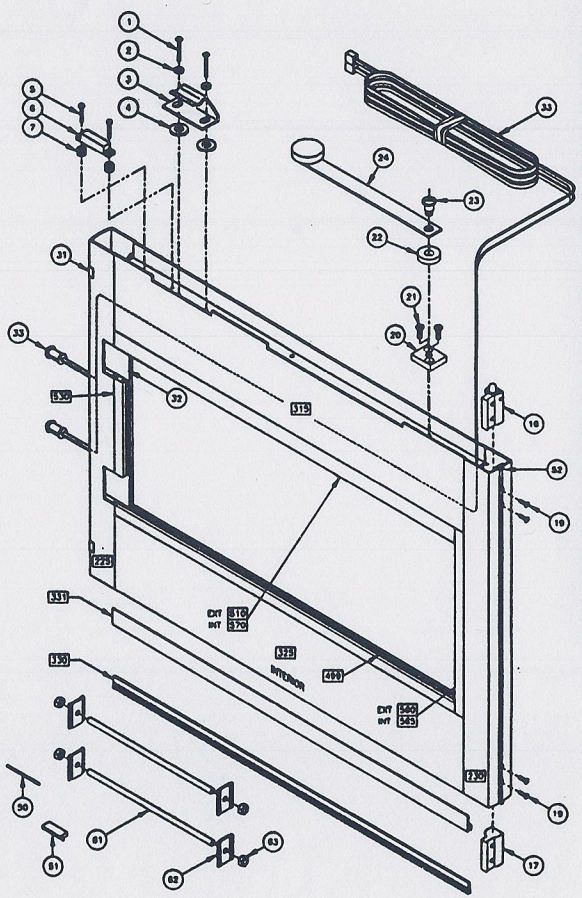


REPLACEMENT PARTS FOR 96000 SERIES LEFT HAND PANEL
BI-PART INSIDE SLIDE ONLY

NOTES:
1. PARTS LISTED ARE FOR A US28 LEFT HAND PANEL (SO) 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 PAN HEAD SCREW
2	4299100489	#10 LOCK WASHER
3	4204120309	CATCH BRACKET
4	4299100100	5/16 FLAT WASHER
5	4299100806	#8-32 SELF-TAP SCREW
6	4201102854	MAGNET - #37 REED
7	4204102005	SPACER
16	4204109770	TOP PIVOT ASSEMBLY, LH PANEL
17	4204109773	BOTTOM PIVOT ASSEMBLY, LH PANEL
18	4299100816	#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	4204110674	PANEL LIMIT ARM
31	4204109798	CORNER PROTECTOR
32	4204101929	BACK UP PLATE
33	96192-000	RECEIVER CABLE - BLUE
50	4204115034	GLASS STOP ANCHOR
51	4204100709	SETTING BLOCK BAG
52	4204106853	WEATHERSTRIP, .437 x .470
61	4204100658	3/8 ROD
62	4204100703	BACK UP PLATE
63	4204100702	3/8-16 SEMS NUT
225	4204118034	LOCK STILE, BI-PART LH PANEL
230	4204100801	LAP PANEL PIVOT STILE N/S
315	4204120675	TOP RAIL, LH PANEL N/S
325	4204110415	LOWER RAIL N/S
330	4204105980	SWEEP
331	4204110400	SWEEP HOLDER
499	4204102601	RUBBER WEATHERSTRIP
510	4204110810	GLASS STOP, 5/8 HORIZONTAL
530	4204101966	GLASS STOP, 5/8 VERTICAL
560	4204110665	GLASS STOP, 5/8 VERTICAL
565	4204100645	GLASS STOP, 5/8 VERTICAL
570	4204101948	GLASS STOP, 5/8 HORIZONTAL



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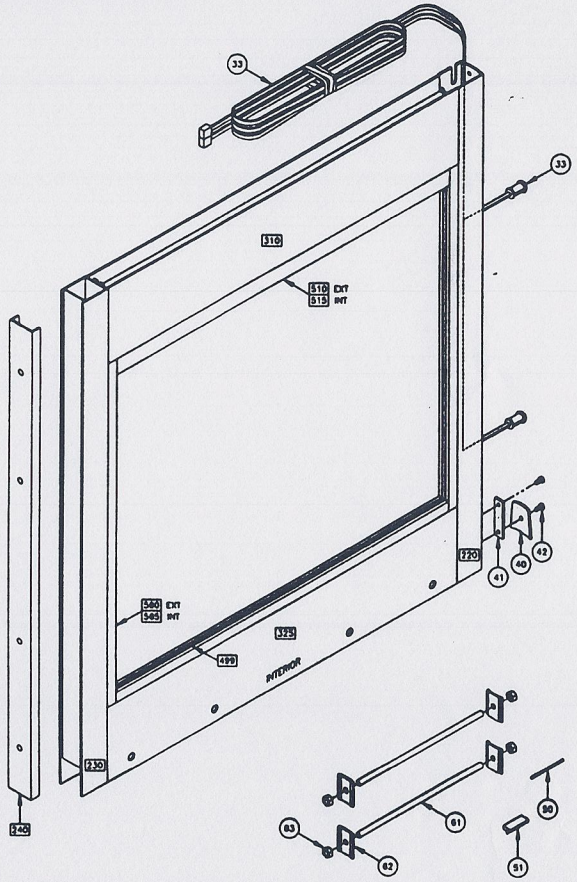
REPLACEMENT PARTS FOR 96000 SERIES RIGHT HAND PANEL
BI-PART OUTSIDE SLIDE ONLY

ITEM	PART No.	DESCRIPTION
33	96193-600	TRANSMITTER CABLE - RED
40	4204120567	END CAP
41	4204120564	END CAP BRACKET
42	4299101302	#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 SEMS NUT
220	4204118060	LOCK STILE, BI-PART RH PANEL (O)
230	4204104610	L&R PANEL PIVOT STILE N/S
240	4204106064	ASTRAGAL PANEL
310	4204101648	TOP RAIL, PANEL N/S
325	4204104569	BOTTOM RAIL, FIXED PANEL N/S
499	4204102601	RUBBER WEATHERSTRIP
510	4204110810	GLASS STOP, 5/8 HORIZONTAL
515	4204100670	GLASS STOP, 5/8 HORIZONTAL
560	4204110685	GLASS STOP, 5/8 VERTICAL
565	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, 5" BOTTOM RAIL AND 5/8" GLASS STOPS FOR 1/4" GLASS ONLY. CONSULT FACTORY FOR ANY OTHER APPLICATIONS.

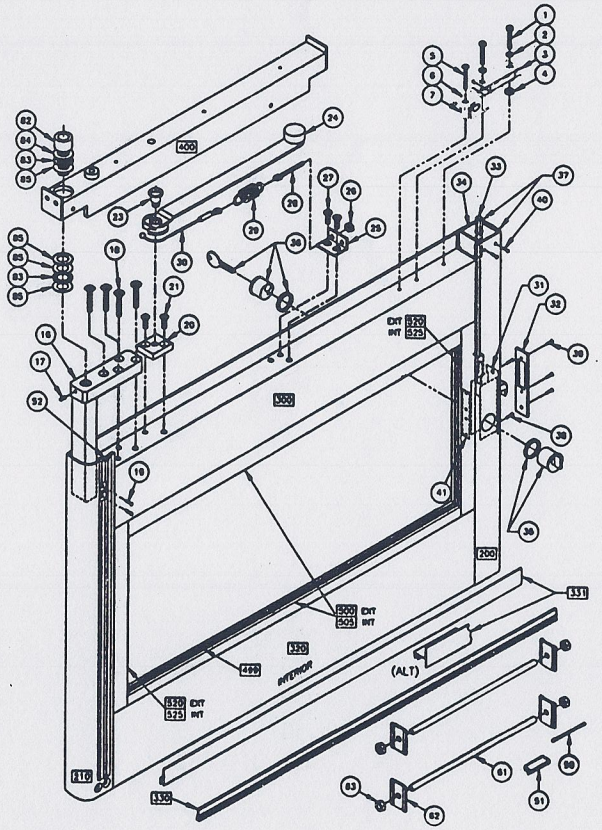
2. CONSULT FACTORY FOR LENGTH AND FINISH WHEN ORDERING ALL EXTRUSIONS.



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

NOTES:
1. PARTS LISTED ARE FOR A US28 RIGHT HAND ROOR (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	4299100780	#10-24 THREAD FORMING SCREW
2	4299100722	LOCK WASHER
3	4204101996	MAGNET
4	4204102005	SPACER
5	4299100779	#10-24 SELF-TAP SCREW
6	4204100708	BRACKET CLIP
7	4204100707	HANGER BLOCK
16	4204120520	COMPOSITE ARM ASSEMBLY
17	4298100890	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	4204110671	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	4204116070	DEAD LOCK ASSEMBLY
32	4204117089	FACE PLATE
33	4204102225	THRESHOLD BOLT
34	4204102224	ROD GUIDE
35	4204101382	THUMB TURN
36	4204101170	LOCKING CYLINDER
37	4204108898	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	4204106853	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	4204106888	CARRIER THRUST RACE WASHER
85	4204100068	THRUST RACE WASHER
200	4204116932	LOCK STILE, RH BI-PART
210	4204105002	PIVOT STILE, RH DOOR N/S
300	4204110019	TOP RAIL, RH DOOR
320	4204110415	LOWER RAIL, N/S
330	4204105980	SWEEP
331	4204110400	SWEEP HOLDER
400	96296-0XX	CARRIER ASSEMBLY, RH BI-PART
499	4204102601	WEATHERSTRIP
500	4204110810	GLASS STOP, 5/8 HORIZONTAL
505	4204100670	GLASS STOP, 5/8 HORIZONTAL
520	4204110685	GLASS STOP, 5/8 VERTICAL
525	4204100645	GLASS STOP, 5/8 VERTICAL

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