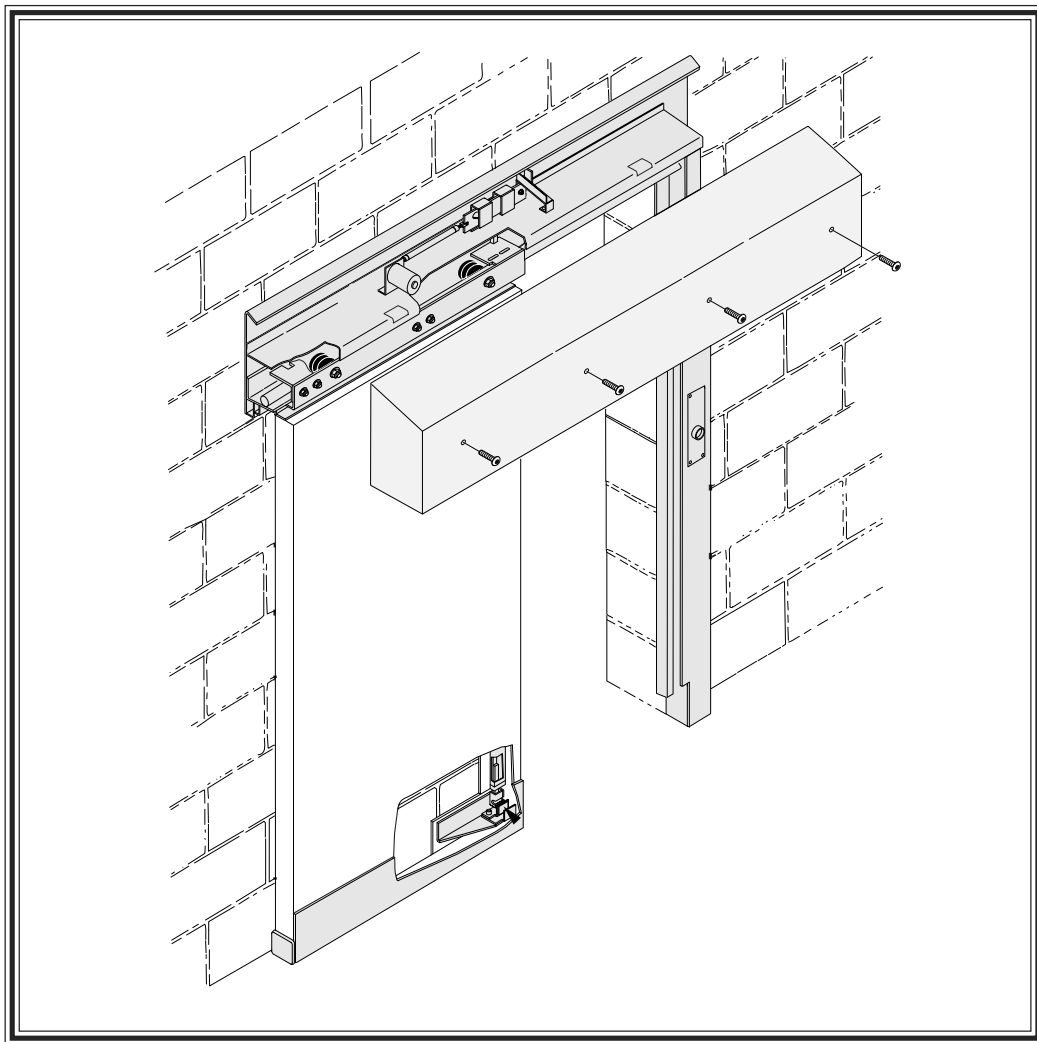




7215 SERIES SLIDING DOOR OPERATOR



7215 SERIES SLIDING DOOR PARTS LIST

| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|--------------|---|------|----------|--------------|---|
| 1 | 1 | ** | BACKPLATE WELDMENT, L/C (SHOWN) | 40 | 1 | ** | DOOR HANGER |
| 1 | 1 | ** | (OR) BACKPLATE WELDMENT, R/C | 41 | 2 | 82009801 | ASSY, ROLLER |
| 2 | 2 | 2NT61 | HEX NUT, 3/8-16 | 42 | 2* | 10002803 | WASHER, CONICAL, SERRATED, 5/8 |
| 3 | 1 | 82008901 | ASSY, LIMIT SWITCH, LH (SHOWN) | 43 | 2* | 10000211 | HEX NUT, 5/8-11 |
| 3 | 1 | 82008902 | (OR) ASSY, LIMIT SWITCH, RH | 44 | 2* | 10000707 | FLAT WASHER, 5/16, TYPE B, REG. |
| 4 | 1 | ** | HORIZONTAL LINKAGE | 45 | 2* | 10001004 | SCREW, HEX, CAP, 5/16-18 X 1-1/2, GRD 5 |
| 5 | 6 | 10001301 | SCREW, CARRIAGE, 1/4-20 X 3/4 | 46 | 1 | ** | SWITCH ACTUATOR BRACKET |
| 6 | 11 | 10002407 | HEX NUT, SEMS, 1/4-20 | 47 | 1 | ** | LOCKTUBE WELDMENT |
| 7 | 1 | 821017 | ASSY, OUTSIDE GUIDE | 48 | 1 | ** | LOCKBAR WELDMENT |
| 8 | 16 | 10000706 | FLAT WASHER, 1/4, TYPE B, REG. | 49 | 1 | 820170 | DOOR GUIDE BRACKET, L/C (SHOWN) |
| 9 | 1 | 820746 | ASSY, BELL CRANK, L/C (SHOWN) | 49 | 1 | 820181 | (OR) DOOR GUIDE BRACKET, R/C |
| 9 | 1 | 820747 | (OR) ASSY, BELL CRANK, R/C | 50 | 1 | ** | RECEIVER JAMB WELDMENT, L/C (SHOWN) |
| 10 | 1 | 10000901 | COTTER PIN, 3/32 X 3/4 | 50 | 1 | ** | (OR) RECEIVER JAMB WELDMENT, R/C |
| 11 | 1 | 82008705 | ASSY, LOCK SWITCH, L/C (SHOWN) | 51 | 1 | *** | ASSY, MANUAL OVERRIDE |
| 11 | 1 | 82008706 | (OR) ASSY, LOCK SWITCH, R/C | 52 | 4 | 10006402 | SCREW, TP, FH, 10-24 X 3/4 |
| 12 | 1 | 10002504 | SHOULDER SCREW, 5/16 DIA X 3/8 LG, 1/4-20 | 53 | 4 | 10002405 | SELF RETAINING NUT, 10-24 |
| 13 | 1 | 821016 | ASSY, INSIDE GUIDE | 54 | 2 | 10001000 | SCREW, HEX HD, 6-20 X 1/2, TYPE AB |
| 14 | 1 | 100072 | TERMINAL STRIP | 55 | 1 | 10002503 | SHOULDER SCREW, 3/8 DIA X 1-1/2 LG, 5/16-18 |
| 15 | 1 | 820061 | LOCKBAR SLIDE | 56 | 1 | 820107 | LOCKBAR SLIDE BEARING |
| 16 | 1 | 820021 | LOCKBAR SLIDE BRACKET | 57 | 1 | ** | DOOR GUIDE, L/C (SHOWN) |
| 17 | 1 | 10003203 | SPRING ANCHOR | 57 | 1 | ** | (OR) DOOR GUIDE, R/C |
| 18 | 2 | 10002403 | HEX NUT, SEMS, 8-32 | 58 | 1 | ** | DOORSKIRT |
| 19 | 1 | 10003204 | EXTENSION SPRING | 59 | AS REQ'D | 10003402 | SCREW, TP, BH, 10-32 X 1/2 |
| 20 | 1 | 1000802 | CLEVIS PIN, 1/4 DIA X 5/8 LG | 60 | 4 | 10000710 | FLAT WASHER, 1/2, TYPE B, REG. |
| 21 | 4 | 10001002 | SCREW, HEX, CAP, 3/8-16 X 1-1/4 | 61 | 4 | 10001410 | LOCK WASHER, 1/2 |
| 22 | 1 | 146-0072-003 | ASSY, LOCK MOTOR, L/C (SHOWN) | 62 | 2 | 820501 | ASSY, KICK RELEASE |
| 22 | 1 | 146-0072-004 | (OR) ASSY, LOCK MOTOR, R/C | 63 | 1 | 820366 | PUSH BRACKET |
| 23 | 1 | ** | VERTICAL LINKAGE | 64 | 4 | 216-0072-031 | SPACER |
| 24 | 1 | 10002404 | HEX NUT, SEMS, 10-24 | 65 | 1 | 160-0072-011 | ASSY, SPEED CONTROL MODULE (NOT SHOWN) |
| 25 | 2 | 10002501 | SHOULDER SCREW, 1/4 DIA X 3/8 LG, 10-24 | 66 | 1 | ** | 7215 SERIES WIRING HARNESS (NOT SHOWN) |
| 26 | 4 | 10006209 | SELF RETAINING NUT, SHORT, 3/8-16 | 67 | 1 | 820826 | WIRING HARNESS, MAUAL OVERRIDE (NOT SHOWN) |
| 27 | 2 | 10000704 | FLAT WASHER, #10, TYPE B, REG. | | | | |
| 28 | 1 | 820072 | DOOR STOP PLATE | | | | |
| 29 | 2 | 10001006 | SCREW, HEX, CAP, 3/8-16 X 1 | | | | |
| 30 | 2 | 10000707 | FLAT WASHER, 5/16 SAE, ZP | | | | |
| 31 | 1 | ** | HOUSING COVER, L/C (SHOWN) | | | | |
| 31 | 1 | ** | (OR) HOUSING COVER, R/C | | | | |
| 32 | 4 | 10003401 | SCREW, TP, BH, 3/8-16 X 1 | | | | |
| 33 | 2 | 10001001 | SCREW, HEX, CAP, 3/8-16 X 5/8, GRD 5 HEX | | | | |
| 34 | 4 | 10000210 | NUT, 1/2-13 | | | | |
| 35 | 8 | 10001408 | LOCK WASHER, 3/8 | | | | |
| 36 | 8 | 10000708 | FLAT WASHER, 3/8, TYPE B, REG. | | | | |
| 37 | 1 | 820195 | LOCK BRACKET, FRONT, L/C (SHOWN) | | | | |
| 37 | 1 | 820193 | (OR) LOCK BRACKET, FRONT, R/C SCREW, | | | | |
| 38 | 4 | 10001302 | CARRIAGE, 1/2-13 X 1-1/4 | | | | |
| 39 | 1 | ** | LOCK BRACKET, REAR, L/C (SHOWN) | | | | |
| 39 | 1 | ** | (OR) LOCK BRACKET, REAR, R/C | | | | |

* PART OF ASSY, ROLLER ITEM #41
 ** PART NUMBER ASSIGNED ON A JOB BY JOB BASIS.
 *** TYPE VARIES PER JOB.

MAINTENANCE

The Airteq 7210 & 7215 Series Electric Door operators require a minimum amount of maintenance. It is recommended that the following items be checked once every six months.

1) Lubrication (Fig. A)

The lock mechanism and rack should be well lubricated with Super Lube Multi-Purpose Synthetic Lubricant. Check to see that the grease has not dried, caked, or become contaminated with dust or other debris. If the grease is not in good condition, wipe as much as possible from the lock mechanism and rack and apply new grease. This also applies to the lock motor linkage, bell crank, manual override mechanism and kick release bracket.

NOTE: Bell crank and manual override mechanism are not present on the 7210 model.

2) Bottom Guide Wear Pads (Fig. D)

The bottom of the door is held in place with two nylon wear pads. These may wear with use. Check to see that there is not excessive door movement in and out from the wall. One sixteenth of an inch movement at the bottom of the door is acceptable. If there is more play than this, the guides need to be adjusted or replaced.

To adjust the bottom guide, slightly loosen the two bolts on the bottom side of the bottom guide mounting bracket. Loosen the bolts just enough to squeeze the guides tighter to the door guide angle. Be sure to leave enough clearance to allow for smooth operation.

3) Glide Lug (Fig. D)

Adjustment or Replacement of GLIDE LUG may be required if the sound of metal scraping against metal is heard while door is being moved. To see if the GLIDE LUG is worn, with the door in the open position, loosen the bolts below the BOTTOM DOOR ANGLE GUIDES and swing the door away from the wall. If less than 1/8" of the GLIDE LUG is showing below the LOCKBAR LUG, loosen the 10-32x 3/16 SET SCREW in the lockbar lug, and adjust GLIDE LUG to 1/8" below LOCKBAR LUG. If GLIDE LUG cannot be adjusted lower and still be held secure by the 10-32 SET SCREW replace GLIDE LUG.

NOTE: Use removable Loctite on threads of shoulder screw

4) Roller Track

Do not lubricate the roller track. To maintain smooth and quiet operation, the roller track must be kept free of any accumulation of dirt, dust, or other debris. If the track does not feel smooth, wipe it off with a lint free cloth or scouring pad. Do not use steel wool, sandpaper, or anything that may leave grit or fibers on the track.

5) Rollers

The roller assemblies are factory lubricated and sealed. They do not require lubrication. If the track is clean and the rollers still do not roll smoothly, wipe the rollers with a clean lint-free cloth.

MECHANICAL ADJUSTMENTS

1) Lock Position (Fig. C)

The lockbar engages the door at the top and bottom in both the open and closed positions. The top locking points are adjustable.

While holding the door tight against the receiver column, manually raise and lower the lockbar. This can be done by moving the horizontal lock slide by hand.

If the lockbar contacts the rear lock bracket, the bracket should be adjusted. Loosen the two nuts securing the bracket to the door hanger. Move the bracket as needed to obtain clearance on both sides of the lockbar. Before tightening the nuts, make sure the lock bracket is level and that the lockbar extends 1/8" below the lock bracket. Tighten the nuts securely.

To check and/or adjust the front lock bracket, repeat the above procedure with the door in the fully open position.

2) Door Height (Fig. D & Fig. E)

Improper door height may result in the door hanger rubbing on the cover, or the bottom door guide angle rubbing on the top or bottom of the locktube notch.

There are two height adjustment bolts, one for each side of the door. One complete turn will move the door up or down 1/16". Turn the bolt clockwise to raise the door and counterclockwise to lower the door. When making height adjustments, first determine how much change is needed, loosen the axle nut, turn the adjustment bolt the appropriate amount, then tighten the axle nut securely and check for proper clearances.

3) Lateral Door Position (Fig. D & Fig. E)

The sliding door should clear the locktube and the sides of the receiving pocket by approximately 1/16". If the door rubs on any of these surfaces, or if the door hanger rubs on the cover, adjustment is required.

a) Top Of Door (Fig. E)

The top of the door can be adjusted at both the front and rear edge of the door.

Loosen the appropriate axle nut. While holding the nut with a wrench, turn the axle with a 1/4" Allen wrench. Each complete turn of the axle will move the door approximately 1/8". Turn the axle clockwise to move the door away from the wall and counterclockwise to bring the door closer to the wall. Tighten the axle nuts securely after adjustment.

b) Bottom Of Door (Fig.D)

The bottom of the door is adjusted by moving the bottom door guides. Loosen the two bolts on the bottom side of the bottom door guide mounting bracket. While holding the guides against the door guide angle, move the door and guides to the desired position. Tighten the bolts, check that there is enough clearance between the guides to prevent binding of the guide angle.

NOTE: The glide lug should rest on the door guide angle during door travel. If more than 1/8" of the glide lug overhangs the door guide angle, adjust door position so that the glide lug overhangs by no more than 1/8". (1/16" overhang is nominal condition)

4) Rear Door Stop (Fig. F)

The rear door stop locates the door for the proper locked open position. If the lockbar does not drop completely and freely in this position, the rear door stop may need adjustment.

To adjust, loosen the two bolts securing the door stop. Find the point at which the lockbar drops completely and freely. Slide the stop up against the door hanger. Check for proper operation, then torque the bolts to 75 ft/lbs.

5) Kick Release Assembly (Fig B)

The kick release assemblies must be adjusted so that when unlocked, the door moves approximately 1" to 3" (heavier doors will move less than lighter doors). The kick release assembly has been factory adjusted to achieve approximately the desired amount of movement, however some adjustment is usually required.

To adjust the amount of door movement at unlock, loosen the shaft collar set screw and slide the collar in the desired direction as shown in Fig. B. Tighten the set screw securely and check for proper door movement. Readjust as required.

NOTE: The kick release shaft must fully and squarely contact the push bracket on the door hanger. Adjust the push bracket as required and securely fasten push bracket to door hanger.

NOTE: Increased door movement at unlock will increase the force required to turn the key for hip high manual release. For models with hip high manual override, door movement may need to be decreased for ease of manual override operation.

ELECTRICAL ADJUSTMENTS

1) Secure/Unsecure Indication

Position indication is controlled by two switches. Both the door position switch and the lock position switch must be made in order to get a secure indication.

a) Lock position switch (LS1)

The lock position switch is located in front of and near the bottom of the lock mechanism. When the lock bar is at its lowest point this switch should be depressed. To adjust this switch, place the door in the closed/locked position. The lockbar lifting pin should now be at the bottom end of the Z shaped slot in the horizontal lock slide. Loosen the screws securing the lock position switch. Lower the switch away from the lifting pin. Then slowly raise the switch until the contacts close (switch will click at this point). (See Fig. G)

b) Door position switch (LS2)

The door position switch is located on the actuator near the receiving column. It should be fully depressed when the door is in the closed/locked position. Pulling the door against the lockbar (away from the receiving column) should not release the door position switch. To adjust this switch, loosen the nut securing the switch mounting bracket to the actuator. Position the door in the closed/locked position. Hold the door against the lockbar towards the open position. Position the switch so that it is fully depressed and tighten the nut. (See Fig. G)

2) Lock Motor Bracket Switch (LS3)

LS3 stops the lock motor when the lockbar is down (locked)

The lock motor arm must activate switch LS3. If it does not, carefully bend the switch lever as required to ensure that the switch is made.

Once the switch is working properly, the speed control module must be adjusted. Increase or decrease the motor speed as required so that when the lock motor arm has stopped on the switch, the lockbar has dropped into the locked position and the lockbar slide bearing remains in the deadlock notch portion of the lockbar slide. (See Fig. H)

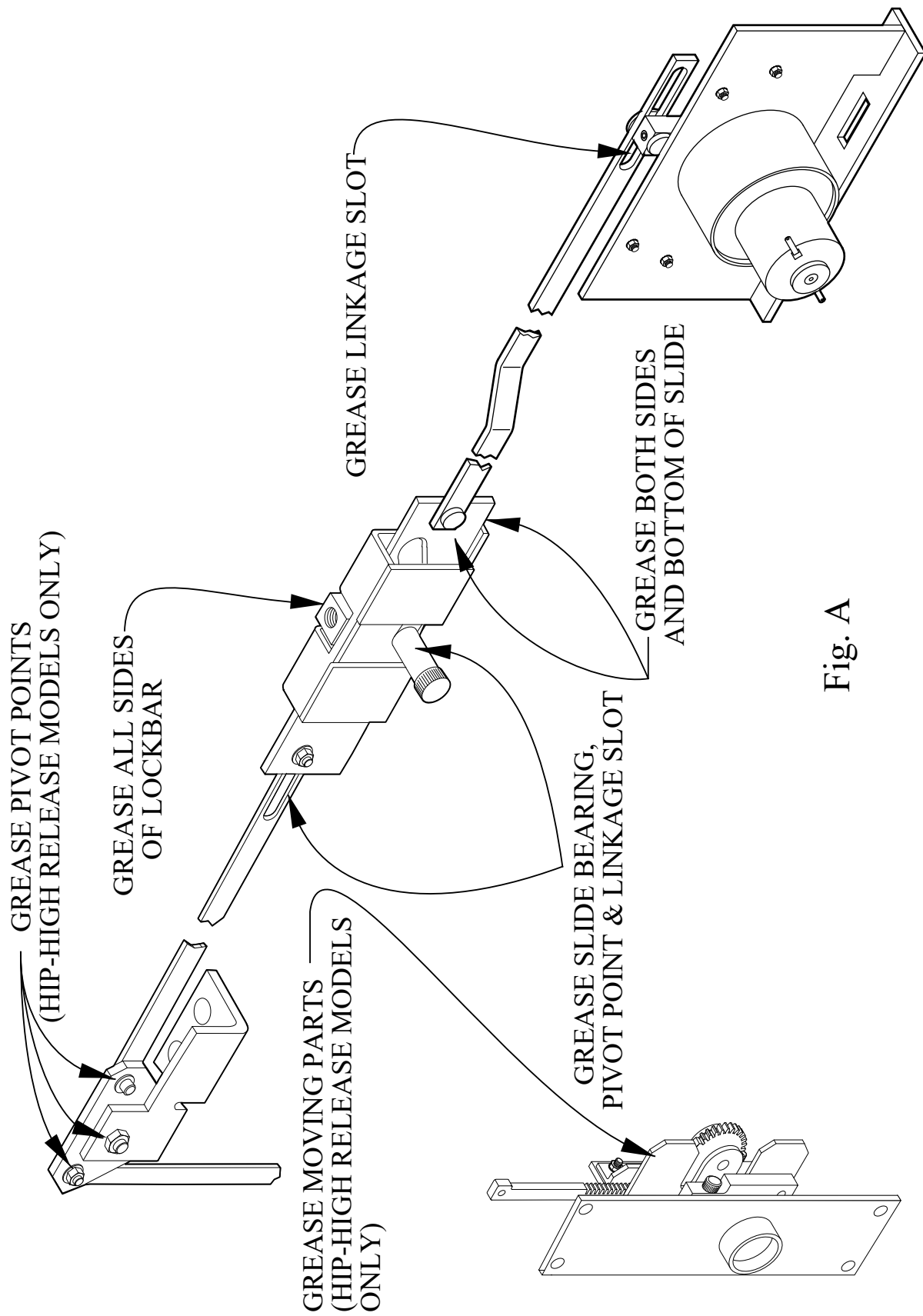


Fig. A

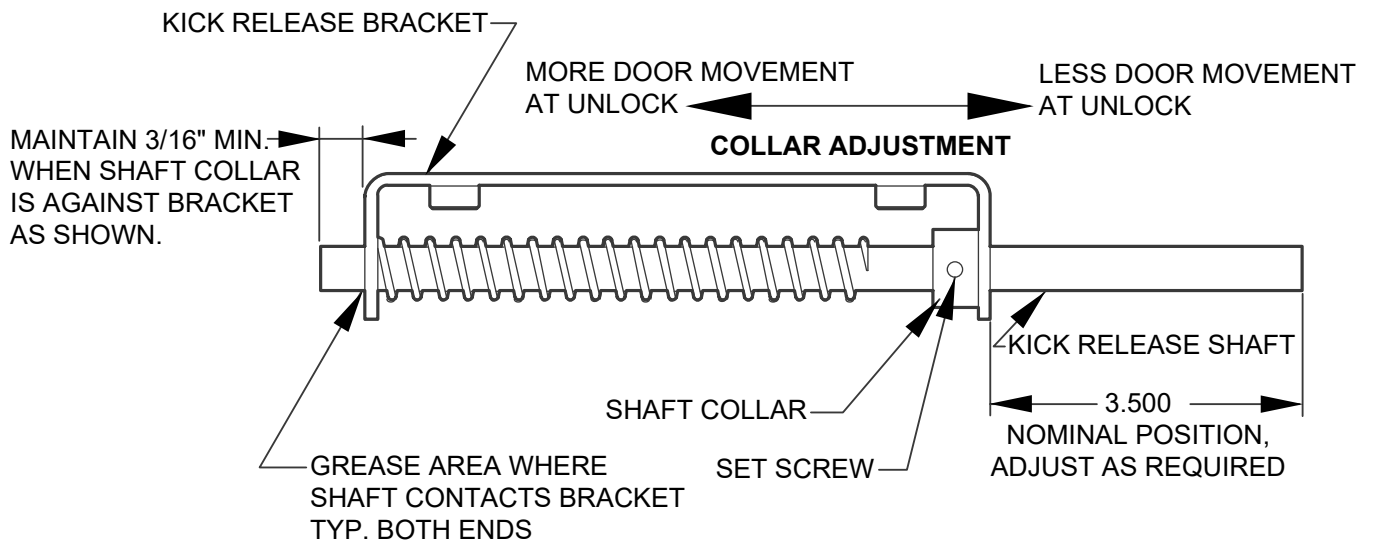


Fig. B

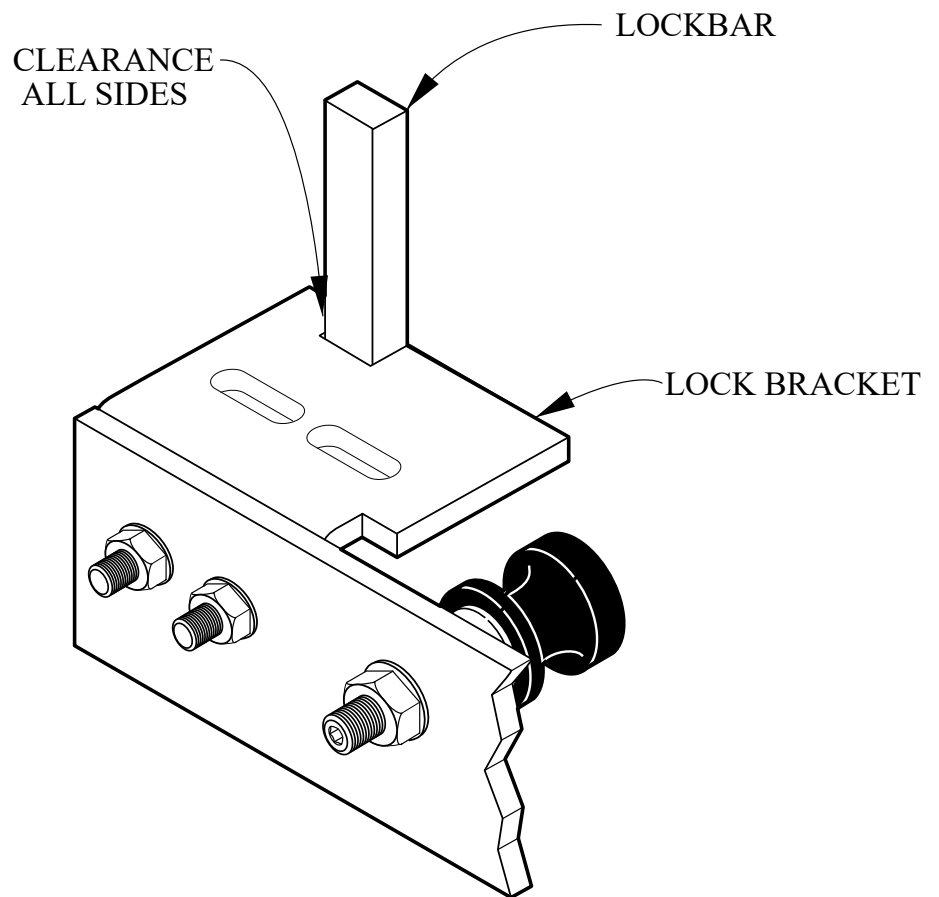


Fig. C

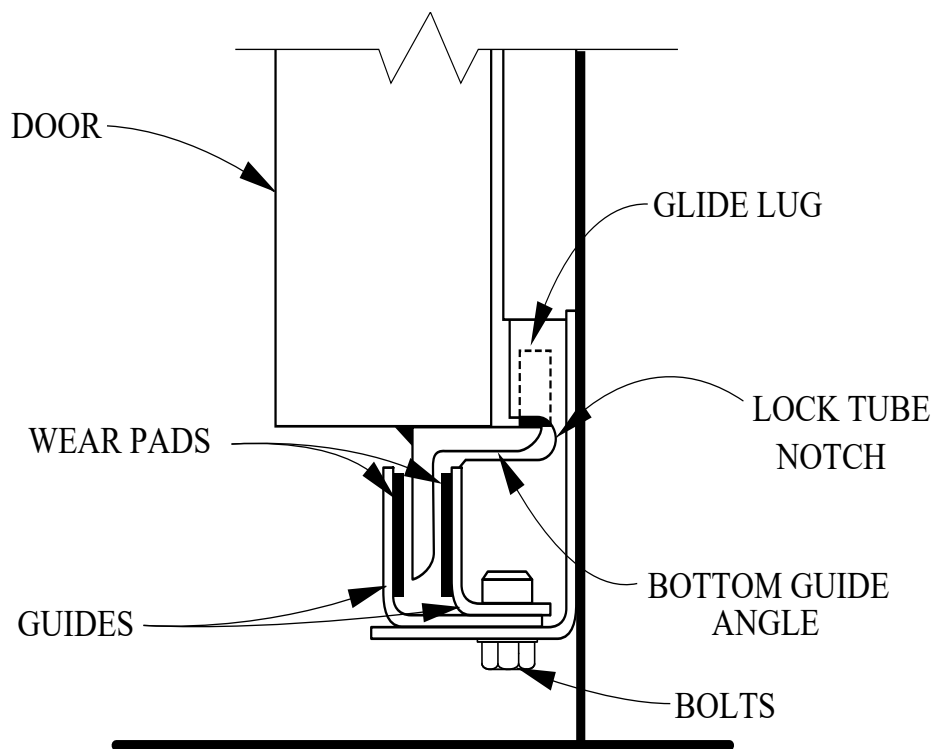


Fig. D

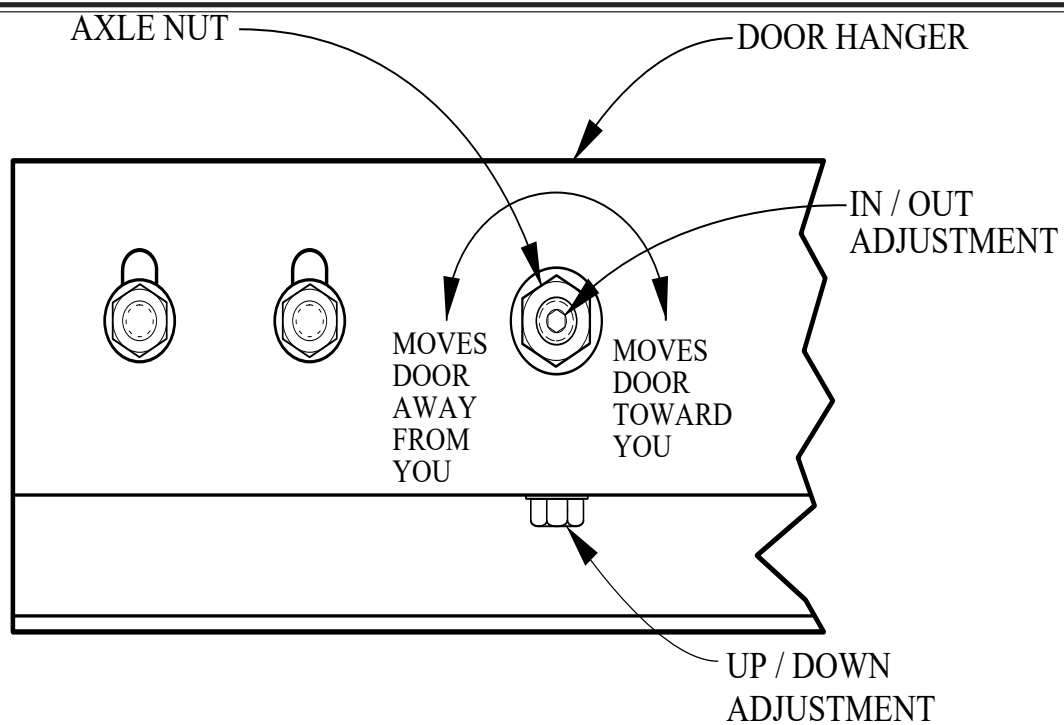


Fig. E

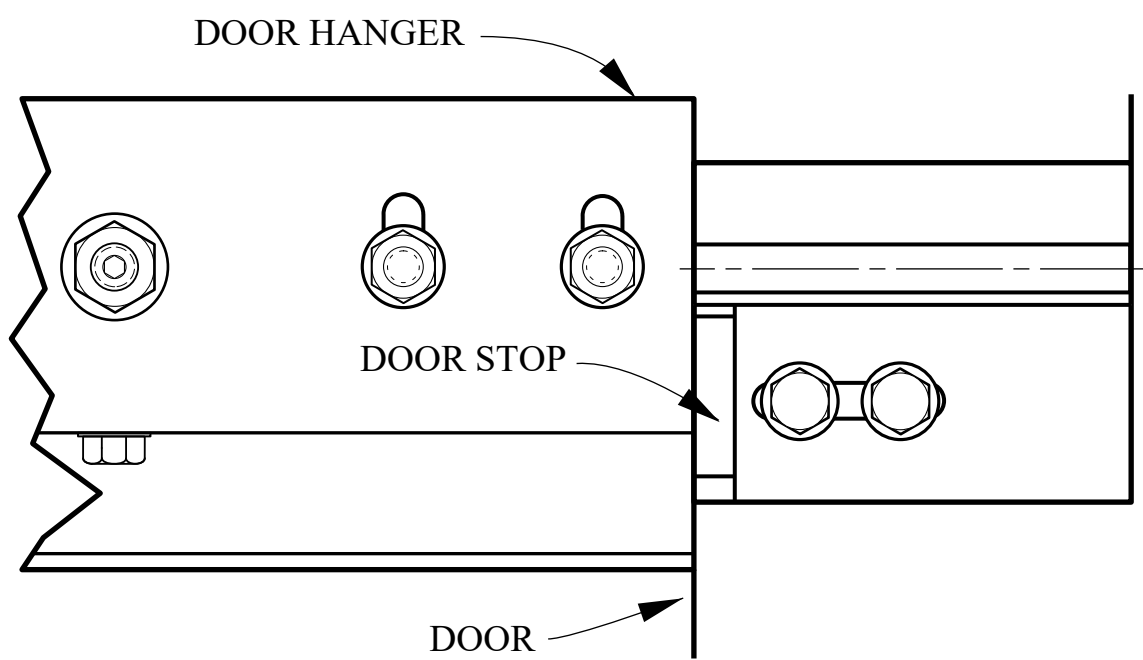


Fig. F

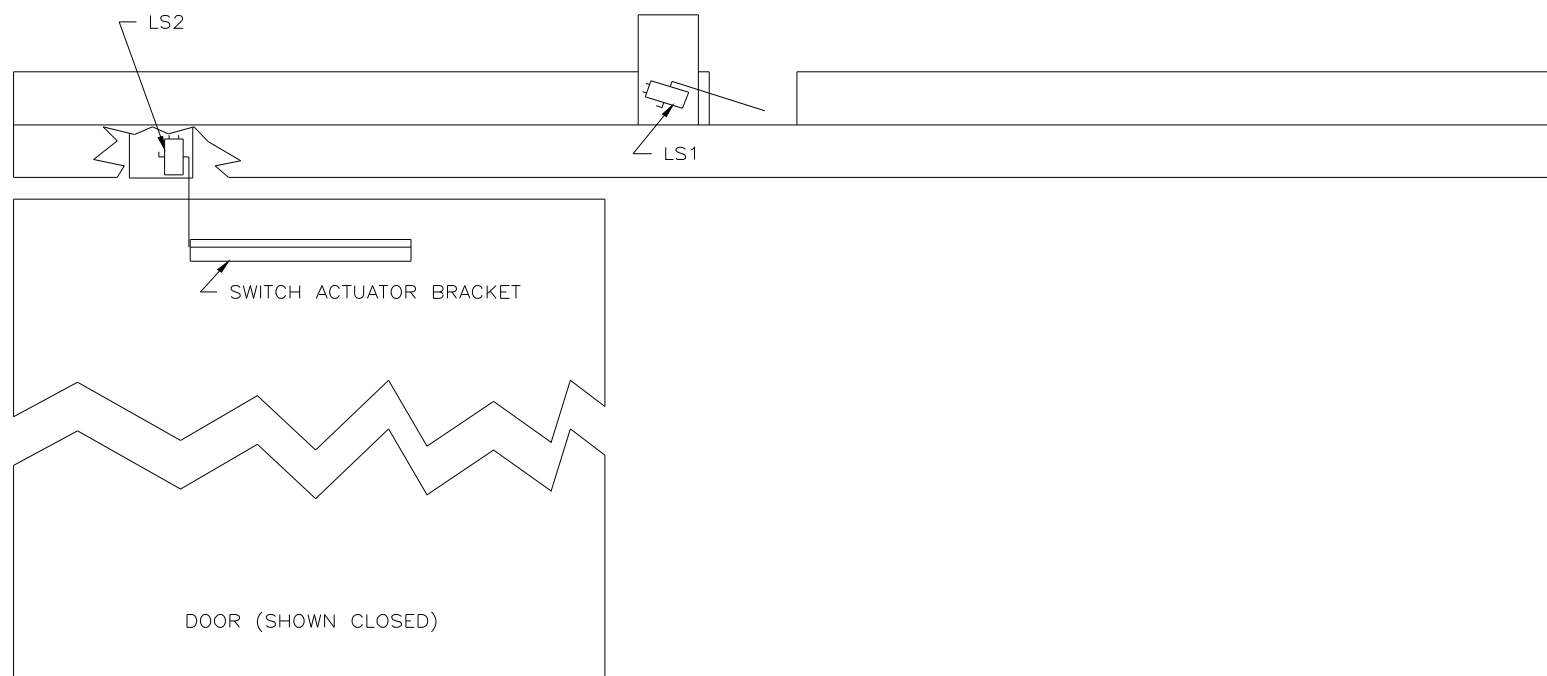
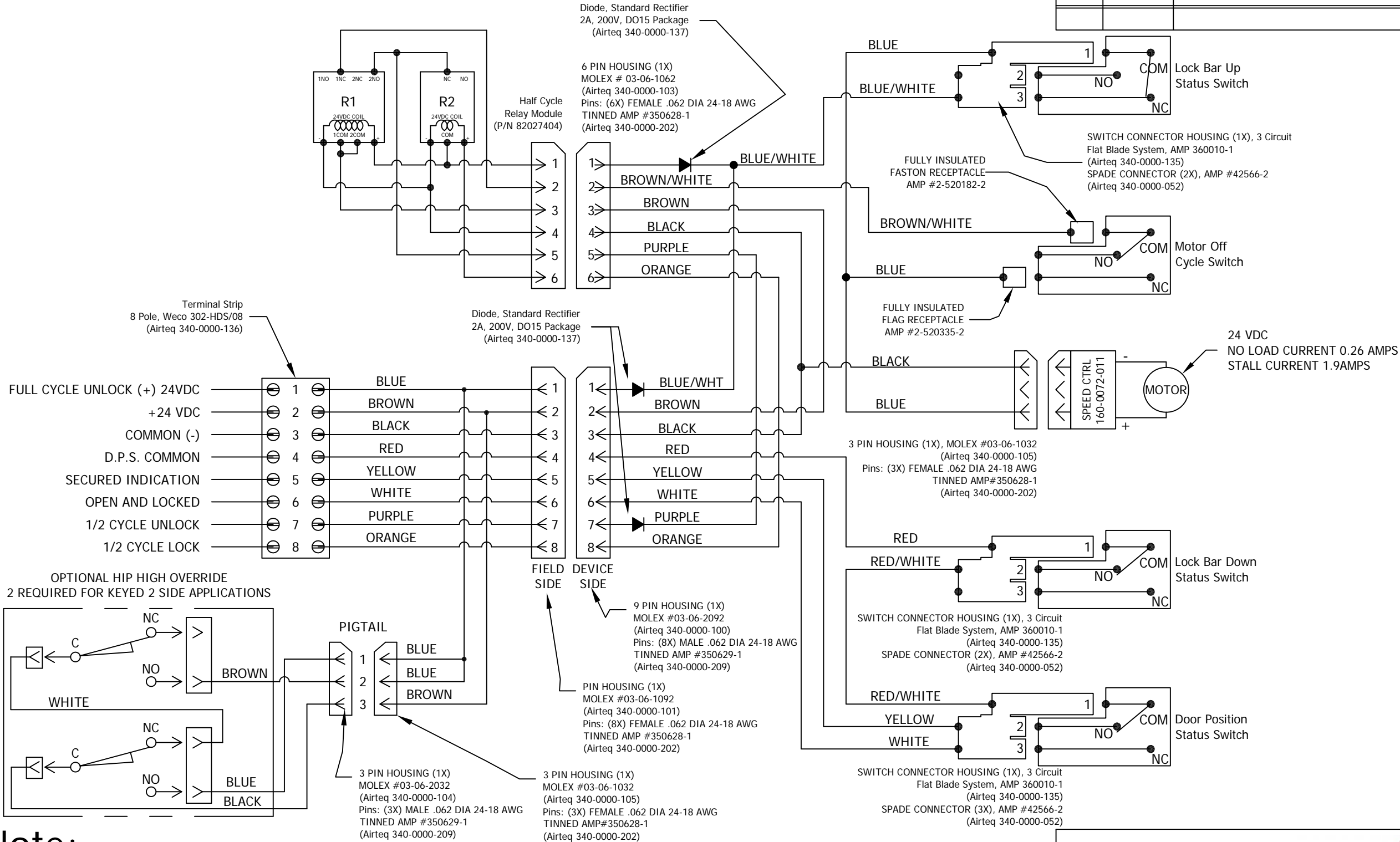


Fig. G

| REVISIONS | | | | |
|-----------|-----|-------------|-----|-----|
| REV | ECN | DESCRIPTION | DRN | CHK |
| | | | | |

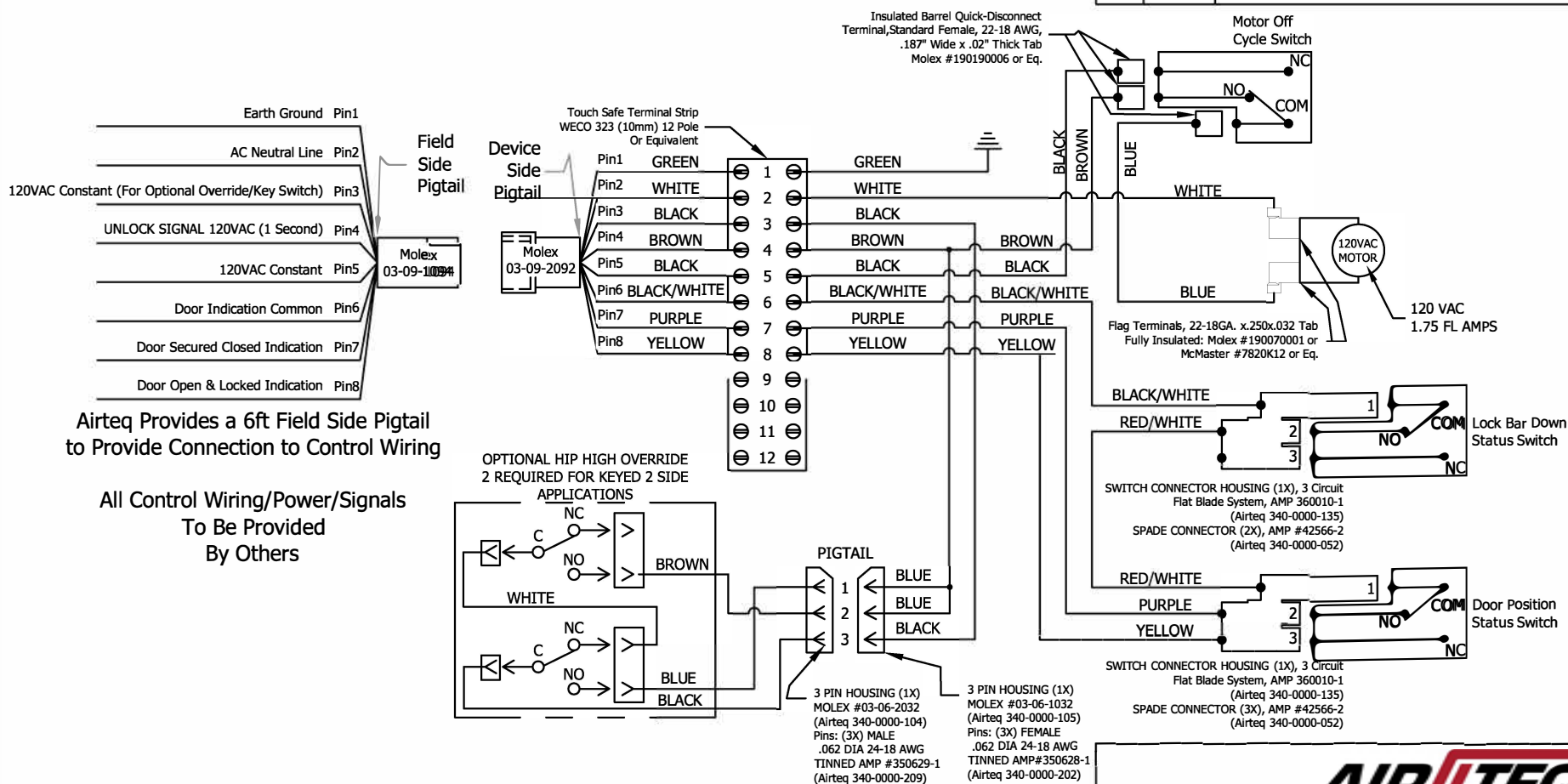


Note:

- 1. DOOR SHOWN IN CLOSED AND LOCKED POSITION
- 2. POWER REQUIREMENTS: 24 VDC +/- 4V
- 3. NORMAL KICK OPERATION ACTIVATED BY 1 SEC. 24VDC SIGNAL APPLIED TO FULL CYCLE UNLOCK LINE (BLUE)
- 4. EMERGENCY HALF CYCLE UNLOCK (DOOR WILL NOT RELOCK IN ANY POSITION)
ACTIVATED BY MOMENTARY 24VDC SIGNAL APPLIED TO 1/2 CYCLE UNLOCK LINE (PURPLE)
- 5. EMERGENCY HALF CYCLE LOCK (DOOR WILL RETURN TO NORMAL KICK RELEASE LOCKING OPERATION)
ACTIVATED BY MOMENTARY 24VDC SIGNAL APPLIED TO 1/2 CYCLE LOCK LINE (ORANGE)

| | | | | |
|---|--|-----------|------------------------------|-----|
| | | | | |
| TITLE WIRING DIAGRAM, 7215 SERIES SLIDING DOOR W/EMERGENCY UNLOCK 1/2 CYCLE | | | DRAWN BY RLP | |
| | | | APPROVED | |
| | | | DATE 10-24-06 | |
| | | | SCALE NONE | |
| © 1989 AIRTEQ SYSTEMS. | | SIZE B | DWG. NO. EL-0032-H | REV |

| REVISIONS | | | | |
|-----------|-----|-----------------|----------------|-----|
| REV | ECN | DESCRIPTION | DRN | CHK |
| A | | Initial Release | RLP 1/29/15 | |
| | | | | |



NOTES:

1. SCHEMATIC SHOWN WITH DOOR IN THE CLOSED AND LOCKED POSITION.
2. POWER REQUIREMENTS: 120VAC \pm 10V.
3. ALWAYS INSTALL IN ACCORDANCE WITH LOCAL REGULATIONS AND THE NATIONAL ELECTRIC CODE (NEC).

AIRTEQ

| | | | |
|------------------------|--------|---------------------|-------|
| TITLE | | DRAWN BY RLP | |
| WIRING DIAGRAM, | | APPROVED | |
| 120VAC, 7210 & 7215 | | DATE 1-29-15 | |
| SERIES SLIDER | | SCALE NONE | |
| © 1989 AIRTEQ SYSTEMS. | SIZE B | DWG. NO. EL-0032-AC | REV A |