9310 Fail Secure

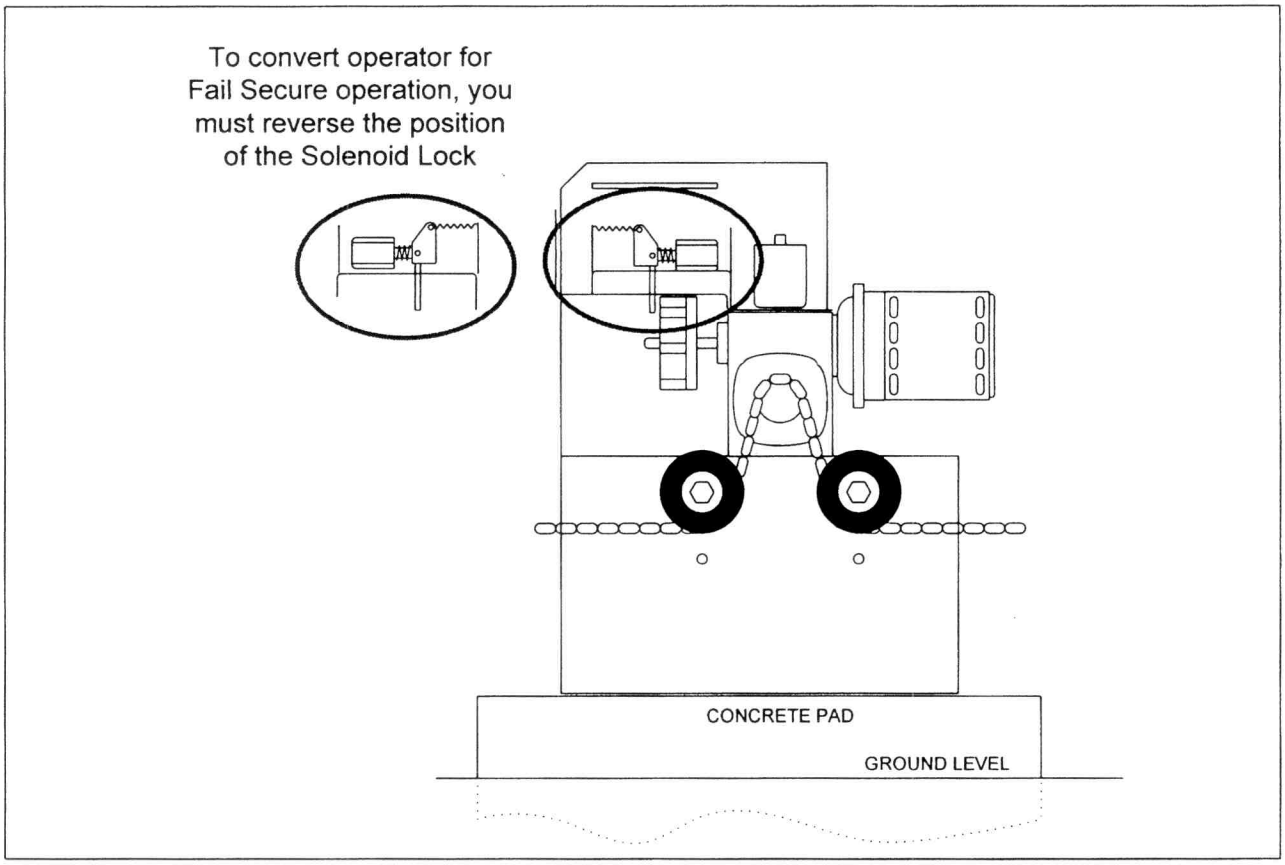
Field Modification Instructions

DoorKing model 9310 Series Slide Gate Operators can be orders in Fail Safe or Fail Secure configurations. The standard configuration is Fail Safe. In this configuration, the gate is Unlocked when power is removed from the operator. To open the gate during a loss of power you can simply push the gate open

In Fail Secure configuration, the gate is always Locked when power is removed from the operator. To open the gate during a loss of power you will utilize a Manual Keyed Release, which disengages the Solenoid Lock, allowing the gate to be pushed open.

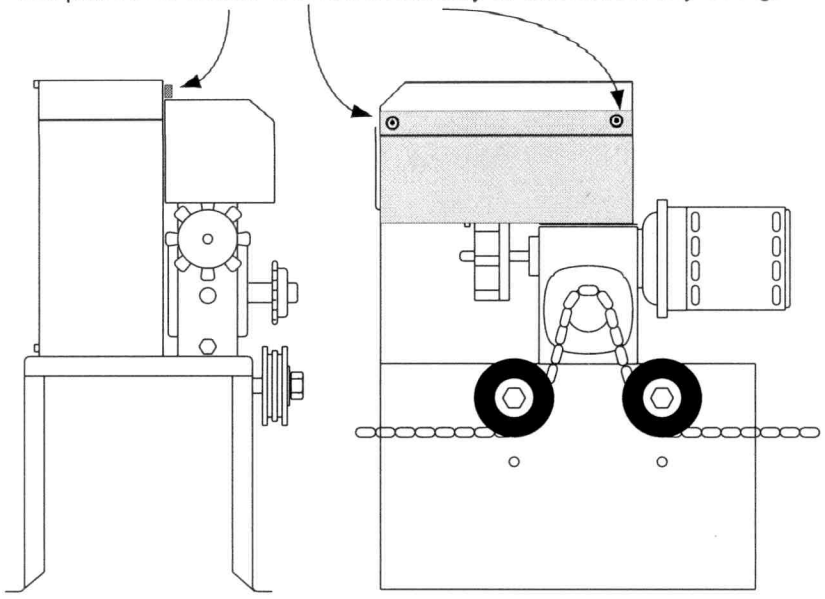
The operator can be field modified to change from Fail Safe to Fail Secure configuration. This requires three modifications to a standard Fail Safe operator:

- ☑ Reposition the Solenoid Lock
- ☑ Install the Manual Keyed Release mechanism
- ☑ Change the control board settings to provide Fail Secure operation



STEP 1:

Step 1: Remove Sheet Metal cover.
1.1: remove 2 nuts at top corners of cover
1.2: pull cover aside. It is not necessary to disconnect any wiring.



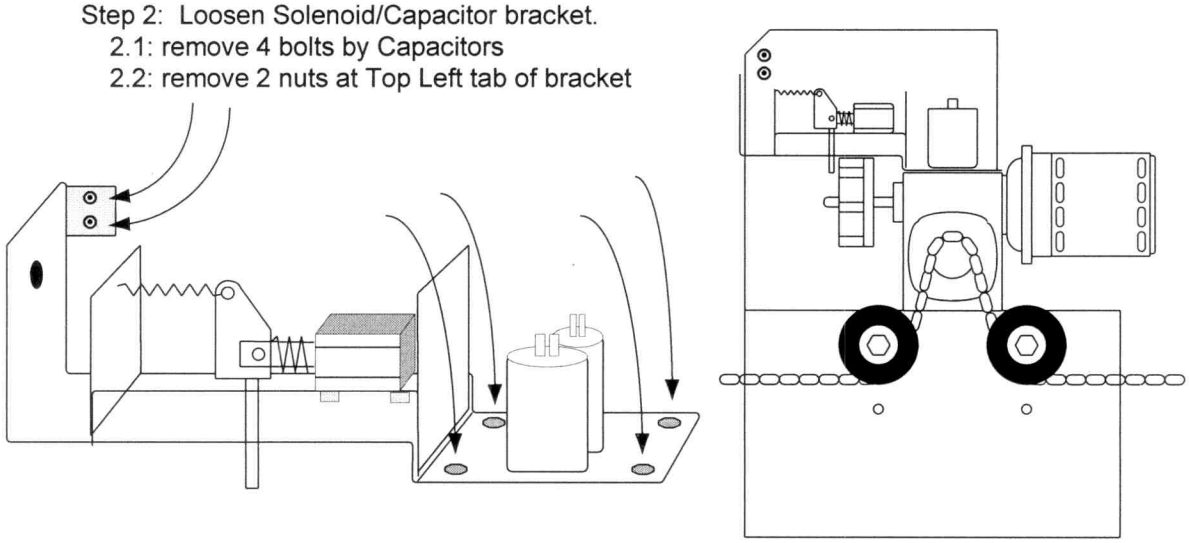
Side View

Rear View

STEP 2:

Note: This step is to gain access to the 2 phillips head screws securing the solenoid assy. If you have a 90 degree phillips screwdriver, you may be able to access these screws without removing this bracket.

Step 2: Loosen Solenoid/Capacitor bracket.
2.1: remove 4 bolts by Capacitors
2.2: remove 2 nuts at Top Left tab of bracket



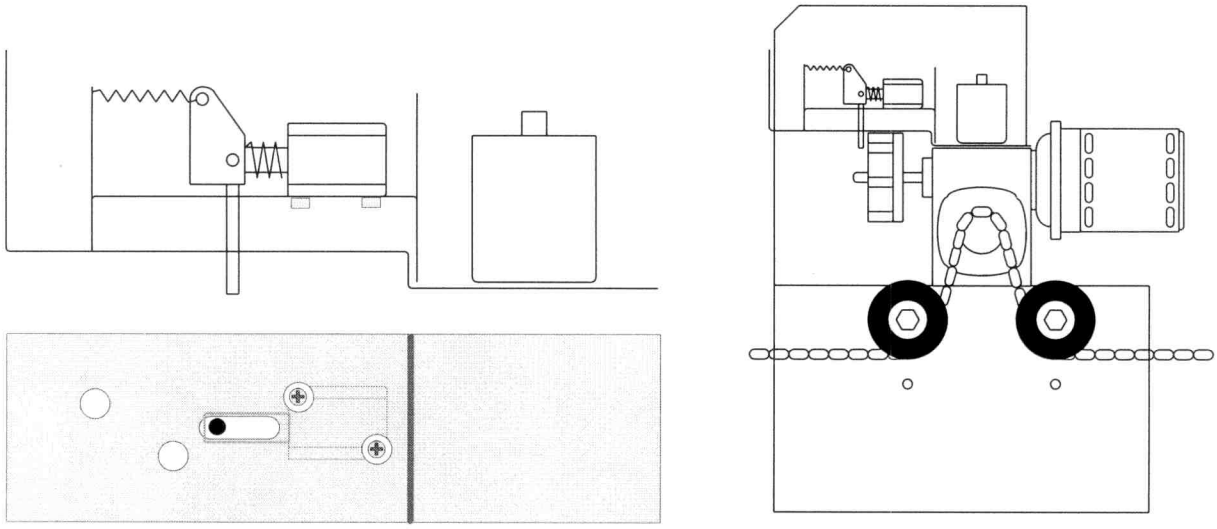
STEP 3:

Step 3: Reverse the position of the Solenoid assy.

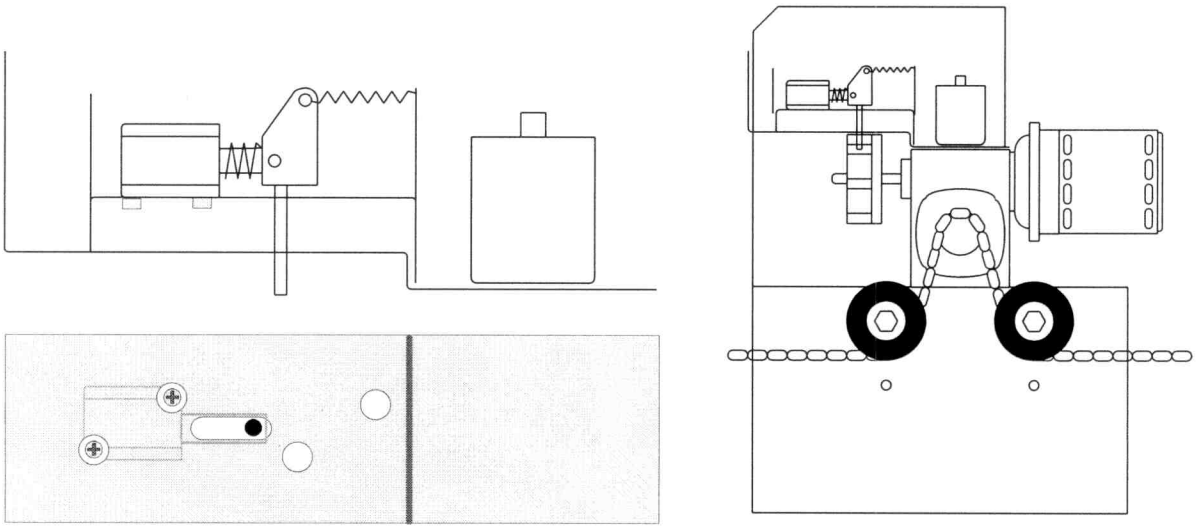
3.1: Tilt Bracket and use access holes in bracket to remove the 2 phillips head screws below the solenoid.

3.2: remove the spring assy that is attached to locking pin

3.3: turn the Solenoid around and remount using the 2 phillips head screws. Reconnect Spring to bracket.

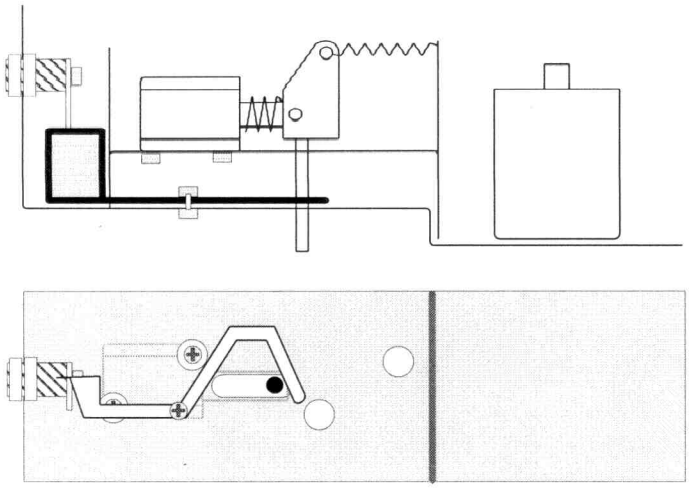


Fail Safe configuration



Fail Secure configuration

STEP 4:

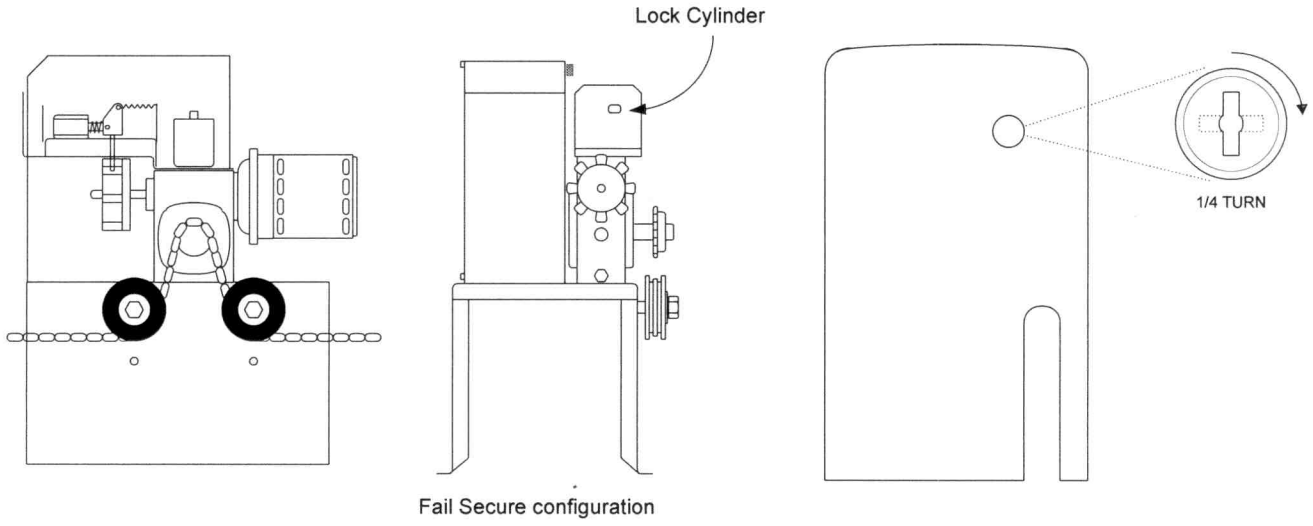


Step 4: Install Manual Release assy. (Lock cylinder and Cam).

4.1: Install Lock Cylinder into Bracket

4.2: install CAM release beneath solenoid mounting plate and secure to bracket using screw.

4.3: attach to Lock Cylinder



Fail Secure configuration

STEP 5: **VERY IMPORTANT!** Change control board switch setting for Fail Secure operation.

☑ **Upper Switch, SW1, switch 6: Set to ON.** This will energize the solenoid when the gate receives an OPEN command, pulling the locking pin away from the locking wheel. **If this switch is no set properly, the lock will stay engaged when the gate tries to open, RESULTING IN DAMAGE TO THE LOCKING SOLENOID.**

Should you have any questions on these updates, please feel free to contact DoorKing Technical Support.

Sincerely,

DoorKing

Product no	Stp	Name / Text	Drawing number	Rec Yield qty	U/M Sts	Ltd Plt	Ccd	Ent dt Yield	Chg dt Lvl	Changed by	Pac	Req	Ltk	Trv	Rcd	Pil
2600-866	001	Lock Assy Model 9310 Installed		0	20		0	022202	123108	SB212	1	1	1	1	1	1

Sno	O	Fr dt	Component no / Text line 1	Draw pos	Quantity / Qty drawng	Pe / Dec	Waste	Opt % / B/c	Opt / Std	Rel
			Wrk ctr / Op description	Dept	Area / Pl set	Setup tm / Run time	Setup price / Unit price	Time rate / Qty	Opt % / Pl wrk	Std	Frev	Scrap / Ftm
1			9310-866 IPB 2600-866		1	EA 0			0	1		0
2			4001-035 Lock N16058BDxSFx2K Key 16120		1	EA 0			0	1	B	0
3			1702-504 Cam 9310		1	EA 0			0	1	B	0
4			2600-391 Bracket Cam Pivot Lock 9300		1	EA 0			0	1	B	0
5			2616-052 Screw Phillips Head 10-32 x1/2		1	EA 0			0	1	B	0
6			2620-010 Washer #10 SAE		1	EA 0			0	1	B	0
10			ASSY Assembly			.20				1		0
20			MFG ASSY Manufacturing Assy - In House			.01				1		0

*** End of report ***

4.3.3 Fail-Secure Manual Operation

The FAIL-SECURE option locks the gate when primary (AC) power is removed and requires a keyed release to place the gate in manual operation. The FAIL-SECURE option is typically used in CLASS III and CLASS IV applications.

Be sure that primary (AC) and backup (DC) power is removed or shut-off prior to placing the gate operator in manual operation.

Insert the manual release key into the keyed release on the side of the gate operator, and turn it clockwise 1/4 turn. The gate can now be manually operated.