

These instructions are used to change the application of a LEO® operator from a Push Side unit to a Pull side unit.

1. The unit shown in fig.1 is configured for a push side application. Note the valve orientation of the closer body. The photo in fig.2 shows a close-up view of the clutch mechanism configured for push side application.

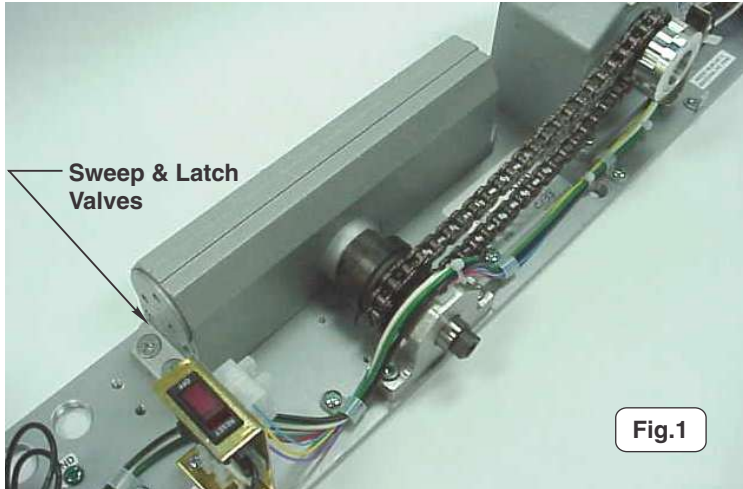


Fig.1

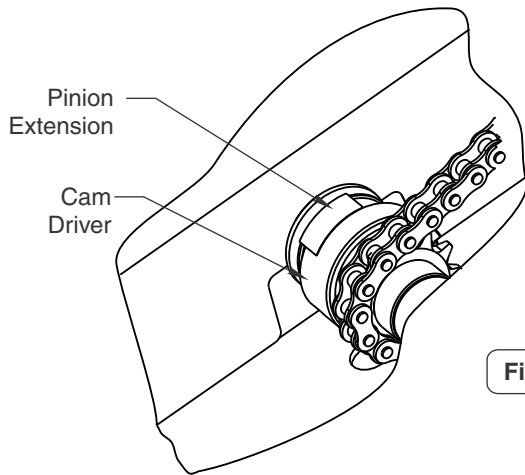


Fig.2

2. Remove the four screws which secure the closer body to the backplate.
3. Slide the closer body away from the clutch assembly and chain. Make sure you do not remove pinion extension when removing closer body from clutch mechanism.
4. Orient the closer body as shown in fig. 3, with "BC" valve toward conduit holes, and slide onto backplate so that closer pinion is inserted into pinion extension. Some rotational adjustment of the pinion extension may be required to allow assembly of closer pinion and pinion extension.
5. Replace and tighten closer body screws removed in step 2. See fig. 4.
6. Flip the dip switch on the inverter from the Push to the Pull position, see fig. 5.

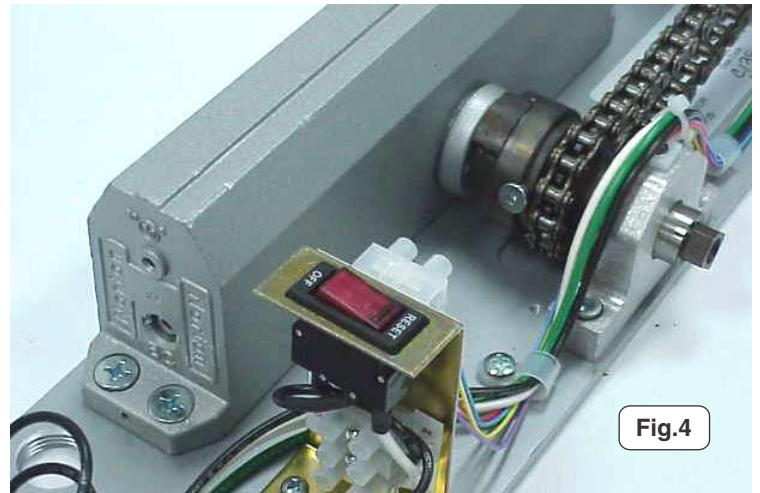


Fig.4

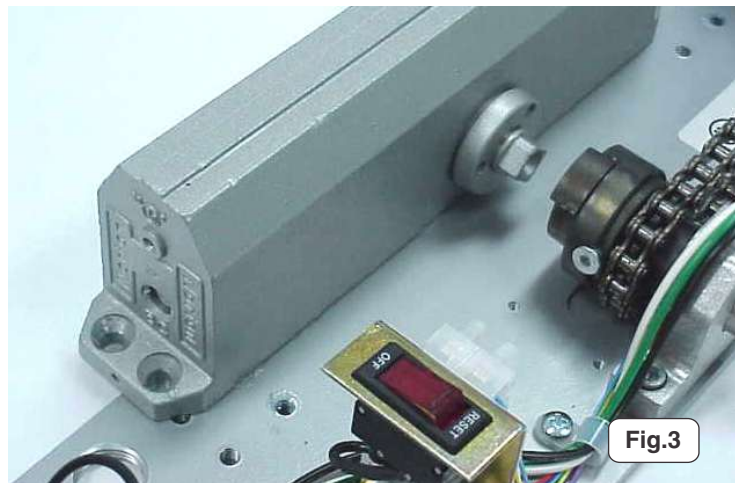


Fig.3

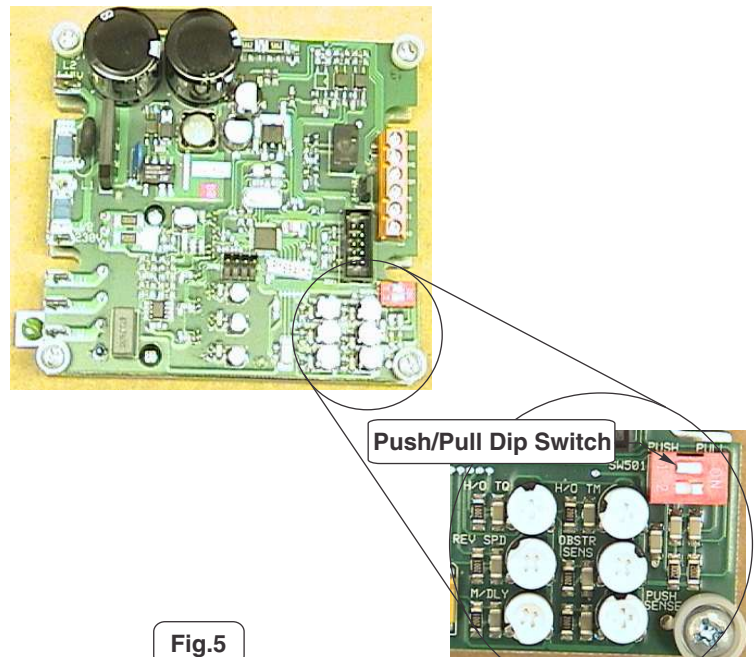
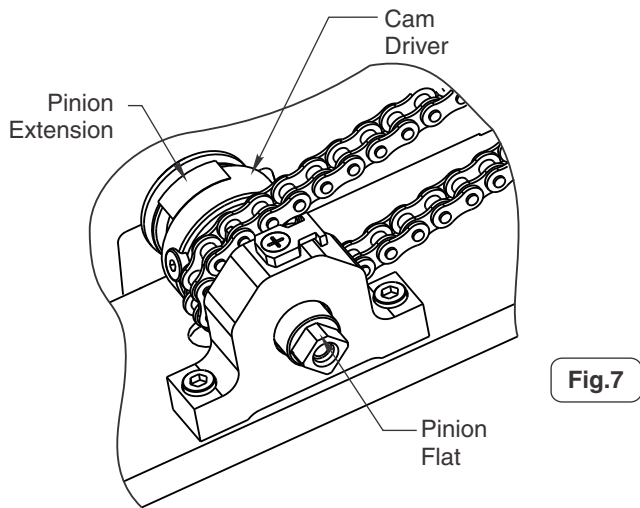
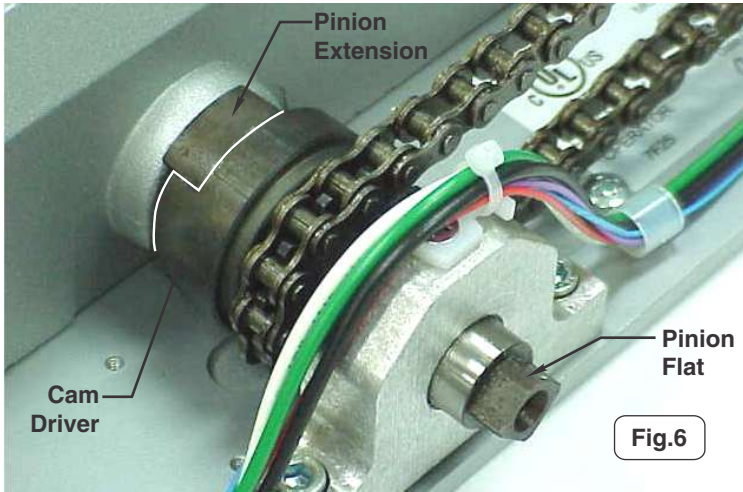


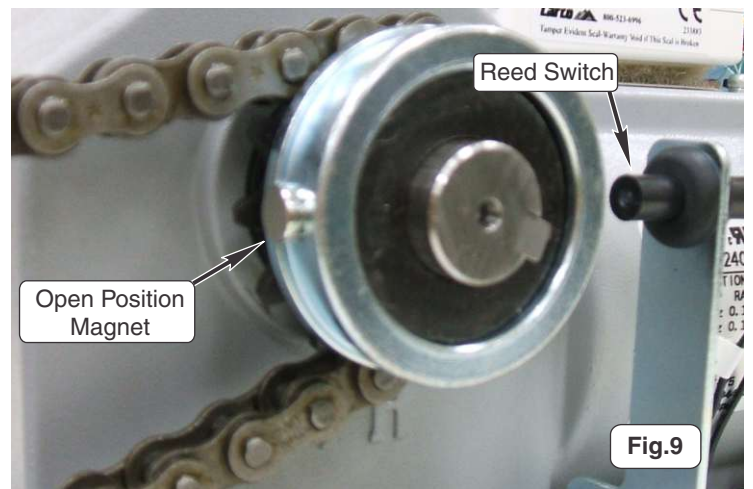
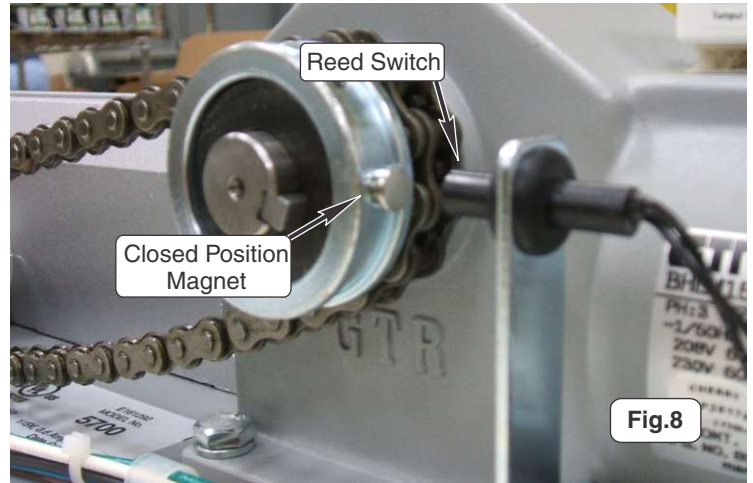
Fig.5

Instructions continued on page 2.

7. Verify switch is in the "ON" position for the circuit breaker and activate unit.
8. Immediately after activating the unit, watch the Cam Driver, fig. 6, as it rotates around. As soon as the Cam Driver contacts the Pinion Extension, flip the circuit breaker switch to the "RESET" position.

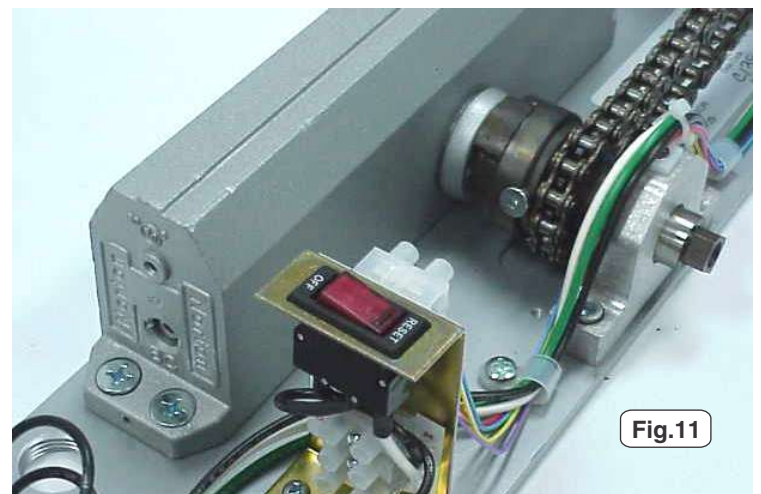
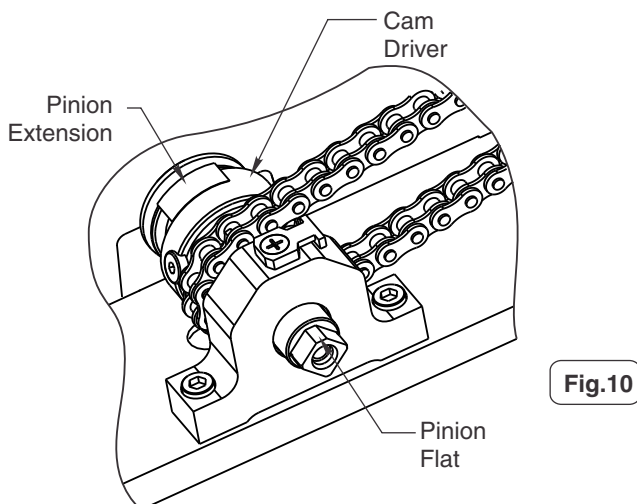


9. With door closed, slide Closed Position Magnet so it aligns with the Reed Switch. See fig. 8.
10. Slide Open Position Magnet so it is 180° from the Reed Switch. See fig. 9. Slide Open Position Magnet as needed to get proper door opening.
11. Continue to page 4.



These instructions are used to change the application of a LEO® operator from a Pull Side unit to a Push side unit.

12. The unit shown in fig. 10 is configured for a pull side application. Note the valve orientation of the closer body. The photo in fig. 11 shows a close-up view of the clutch mechanism configured for pull side application.



Instructions continued on page 3.

13. Remove the four screws which secure the closer body to the backplate.
14. Slide the closer body away from the clutch assembly and chain. Make sure you do not remove pinion extension when removing closer body from clutch mechanism.
15. Orient the closer body with "Latch" and "Sweep" valves toward conduit holes, and slide onto backplate so that closer pinion is inserted into pinion extension. Some rotational adjustment of the pinion extension may be required to allow assembly of closer pinion and pinion extension.
16. Replace and tighten closer body screws removed in step 12. See fig. 12.

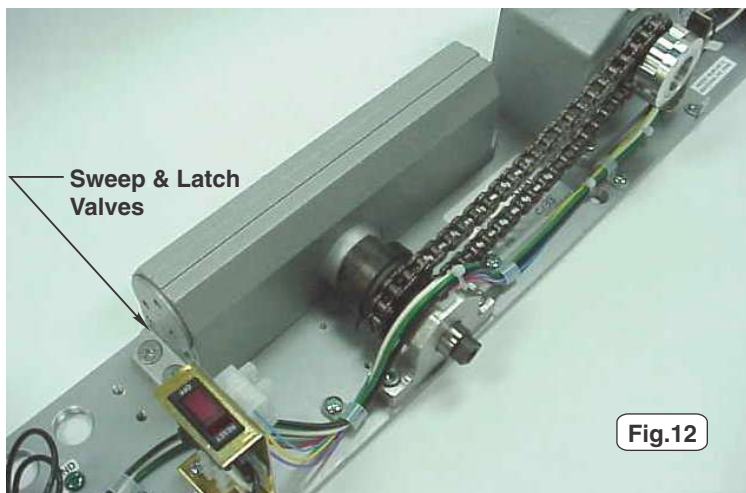


Fig.12

17. Flip the dip switch on the inverter from the Pull to the Push position, see fig. 13.

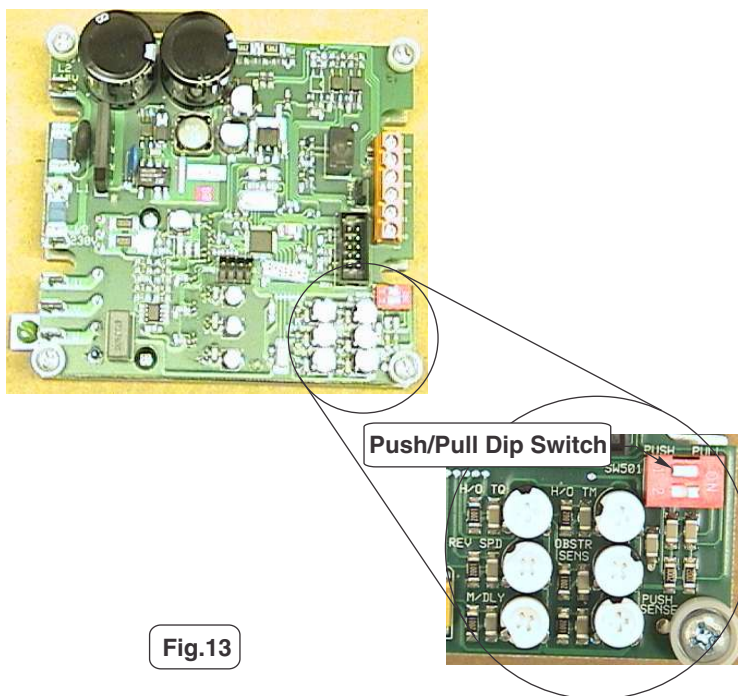


Fig.13

18. Verify switch is in the "ON" position for the circuit breaker and activate unit.
19. Immediately after activating the unit, watch the Cam Driver, fig. 14, as it rotates around. As soon as the Cam Driver contacts the Pinion Extension, flip the circuit breaker switch to the "RESET" position.

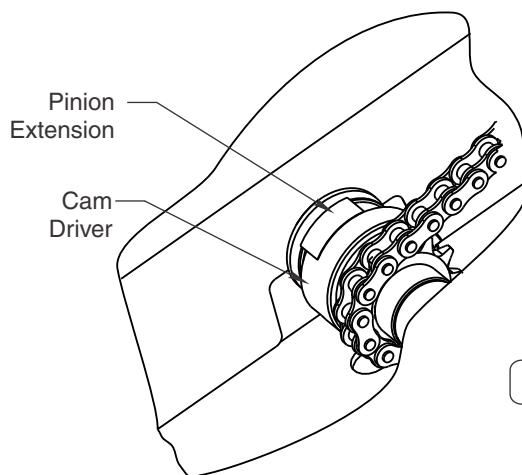


Fig.14

20. With door closed, slide Closed Position Magnet so it aligns with the Reed Switch. See fig. 15.
21. Slide Open Position Magnet so it is 180° from the Reed Switch. See fig. 16. Slide Open Position Magnet as needed to get proper door opening.
22. Continue to page 4.

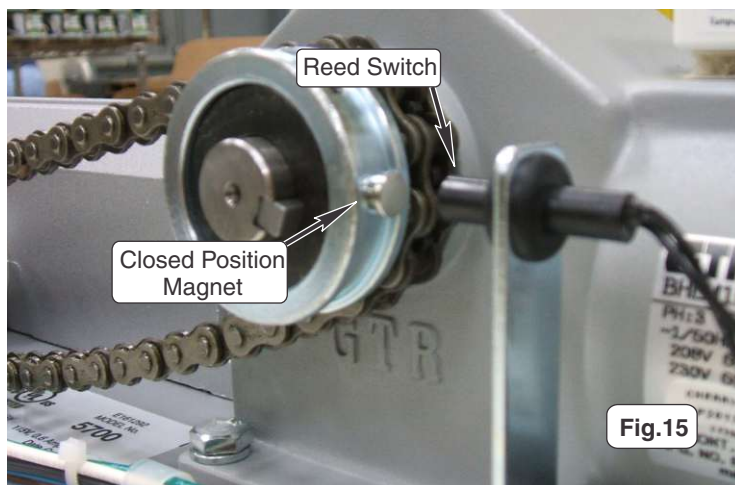


Fig.15

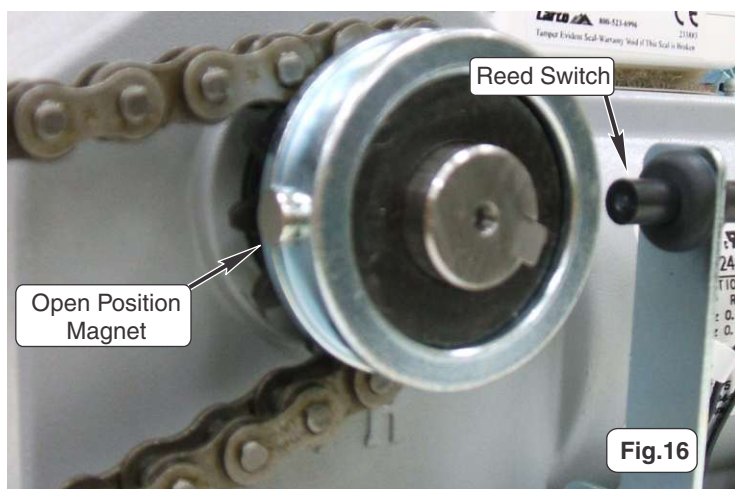
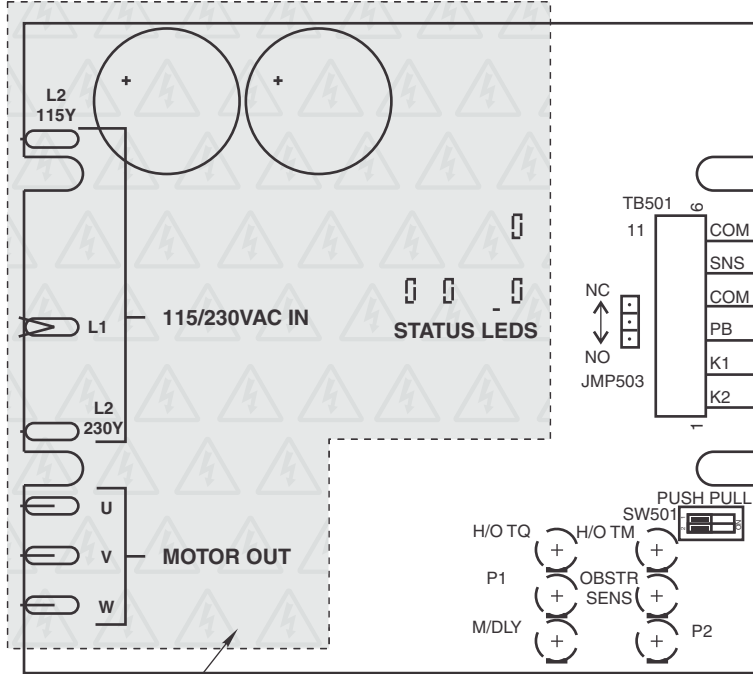


Fig.16

Instructions continued on page 4.

- 23. Turn circuit breaker to the "ON" position.
- 24. Rotate Open position magnet until door opens to desired position.

Inverter Details



POT	DESCRIPTION	FUNCTION
M/DLY	Motor Delay on Opening	CW - Increase CCW - Decrease
OBSTR SENS	Obstruction Detection on Open	CW - Increase CCW - Decrease
P1	Motor Reversing Speed	CW - Increase CCW - Decrease
H/O TM	Hold Open Time (5 - 30 Seconds)	CW - Increase CCW - Decrease
H/O TQ	Motor Torque at Hold Open Position	CW - Increase CCW - Decrease
P2	Push Recognition Sensitivity	CW - Increase CCW - Decrease

Dip Switch Settings



1. Door Mounting - ON - pull
OFF - push
2. Push Recognition - ON - active
OFF - inactive



WARNING
Electric
Shock Risk

(Adjustments made in the shaded area should be performed by Authorized Factory Personnel.)

WARNING

120 HIGH VOLT POTENTIAL PRESENT. MAKE SURE POWER IS TURNED OFF DURING INSTALLATION PROCEDURE.

Inverter Adjustments:

- Based on function adjustment desired, use table above to determine which POT is to be adjusted.

Norton

ASSA ABLOY

ASSA ABLOY, the global leader in door opening solutions

3000 Highway 74 East • Monroe, NC 28112

Tel: (877)-974-2255 • Fax: (800)-338-0965

www.nortondoorcontrols.com

Norton® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.
Copyright © 2005, 2010, Yale Security Inc., an ASSA ABLOY Group company. All rights reserved.
Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.