

eForce-150 Keyless Entry



Owner's manual
& User's guide
For Model 3090



ASSA ABLOY

This manual contains important operation,
maintenance & warranty information.

Save this manual for future reference

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eFORCE 150 GENERAL INFORMATION

- The Keypad (with numbers 0-9, [*] and [#]) is used for programming. In normal operating mode, the [*] key is used for the enter key after user code entry.
- Each key press will flash the yellow LED and sound one tone. Audible and visual keypad feedback can be disabled. Refer to programming instructions.
- The Master and Emergency Codes must be re-programmed from the factory pre-set codes before user codes may be entered. The factory preset Master and Emergency codes (1234 & 4321) cannot be revised back into the unit.
- All codes need to be entered twice for validation during programming. If the two entered codes do not match, the eForce 150 will exit programming mode and the previous code will remain active.
- Following a number of 5 successive invalid code entries, the red LED will flash once and a tone will indicate that the eForce 150 will no longer accept further entries for 15 sec. One tone per second will sound during this time. Refer to programming instruction to change default settings for successive invalid code entries and error lockout time.



Programming Information:

Programming mode:

- To enter programming mode, press and hold the [#] key until the yellow LED flashes three times. Release the [#] key and the yellow LED will begin to flash continually. You are now ready to start the programming sequence. At the end of each programming step ending with the enter [#] key, the green LED will flash twice and the sounder will emit 2 tones to indicate that valid values were accepted. At the end of the programming sequence, you can either wait 2 seconds for the device to time out and return to normal operating mode, or you can press the [*] key to exit programming mode.

Speed mode:

- At the end of a programming sequence, press the [#] key within 2-4 seconds to program additional codes. This action initiates the “speed programming mode”, eliminating the need to re-enter the Master or Supervisor code.

- In programming mode, press the [*] key at any time to exit this mode. Wait 2 seconds before entering any code. The red LED will flash and a tone will indicate that the programming mode has been exited.
- The programming mode will exit automatically if an invalid code is entered during programming (indicated by a red LED flash and a tone). The programming mode can be reinitiated by pressing the [#] key.
- The eForce 150 will always return to the standard user mode after the programming mode is exited.

User Code Descriptions:

Note: In user mode, entries must be followed by the [*] key

Master Code:

- The default Master code setting (1234) must be changed before programming additional user codes. In addition to using this code to program Emergency and Supervisor codes, the Master code can be used to unlock the device. The code must be between 4 and 7 digits.

Emergency Code:

- The default Emergency code setting (4321) must also be changed prior to programming the eForce 150 features and codes, though it is not used in programming the eForce 150. This code unlocks the device in all conditions, including a low battery condition or “blackout”. It will open the eForce 150 for the preset time (10 sec. default). The code must be between 4 and 7 digits.

Supervisor Code:

- The Supervisor code has no preset default, so it must be programmed by the user if needed. It is used to unlock the eForce 150, even under low battery conditions. It allows for programming every code except the Master code, and is also required to delete codes. Normal and One Time user codes (6-152) may be entirely deleted or partially deleted in a block. The Emergency, Lockout, and Passage codes may be deleted singly rendering these functions completely non-operational (they will not return to default once deleted). The Supervisor code must be between 4 and 7 digits.

Lockout Code:

- The Lockout code is used to restrict Normal User codes (6-152) from gaining access. Entry of Lockout Mode is indicated by a green LED flash and two tones, with a pause followed by two additional tones. Only the Master, Emergency, and Supervisor codes can override the Lockout code. Entering the Lockout code a second time will cancel the Lockout and allow access with Normal User codes. Exit of Lockout

Mode is indicated by a green LED flash and two tones. The Lockout code must be between 4 and 7 digits.

Passage Code:

- The Passage code is used to enable or disable the Passage mode. Entering the Passage code will cause the device to allow free ingress entry (Passage enabled is indicated by a green LED flash and 3 tones). A second entry of the Passage code will return the eForce 150 to the Normal User Mode (exiting Passage Mode is indicated by a green LED flash and 2 tones). The Passage Mode operates when the battery is low and can be overridden by the Lockout code. The code must be between 4 and 7 digits.

Normal User Codes:

- Normal User codes are used to briefly unlock the device. A correct code entry is indicated by a green LED flashing once per second. An incorrect code entry is indicated by a red LED flash and 3 tones. Up to 144 different Normal User codes may be programmed. These codes may not be programmed until after the default Master and Emergency codes have been re-programmed. They must be between 2 and 7 digits.

One-Time User Codes:

- One-Time user codes are used to unlock the device and are only valid for a single operation of the eForce 150. A correct code entry is indicated by a green LED flashing once per second. An incorrect code entry is indicated by a red LED flash and 3 tones. Different One-Time user codes may be programmed into locations 151 and 152. These codes may not be programmed until after the default Master and Emergency codes have been re-programmed. They must be between 2 and 7 digits. After a One-Time user code is used to operate the eForce 150, the same or a new code must be programmed into the eForce 150 using the Master or Supervisor codes.

Features and Options:

Note: Program Command Codes (PCC) are designated codes for programming and is always entered after the Master or Supervisor code during programming mode.

- **Error Lockout:** The eForce 150 will stop accepting key presses after 3 successive invalid entries. Error Lockout is indicated by one red LED flash and 3 tones, followed by one tone per second for the duration of the Lockout time. The eForce 150 will not accept any key presses during this preset (PCC 34) time. The Error Lockout function overrides the horn disable function (PCC 31).





- **Low Battery Indicator:** When the battery voltage drops below 4.0 volts, the eForce 150 will emit 4 tones before allowing entry. If the battery voltage drops below 3.8 volts, the eForce 150 will enter blackout mode, indicated by 4 tones followed by 4 tones, and will not open. The eForce 150 will function for the Master, Emergency, and Supervisor codes only. See “battery replacement” instructions.
- **Piezo Sounder:** This will emit a tone with each keystroke and varying tones to indicate various conditions. The sounder can be disabled using the Master or Supervisor code (PCC31).
- **LED Indicator:** All 3 LED’s can be disabled in User Mode by the Master or Supervisor code (PCC32), but will remain enabled in programming mode. Yellow indicates programming mode. Green indicates successful entry. Red indicates input error. The LED’s will also flash to indicate various conditions.
- **Variable Re-lock time:** The duration that the eForce 150 remains unlocked can be adjusted (PCC 44) from 1 to 9 seconds. Default is 4 seconds.

PROGRAMMING INSTRUCTIONS

The eForce 150 can support 152 individual codes. Each code is assigned a code location (1-152) in addition to a user name and the code's programmed digits. Program Command Code 51 is used for programming Master, Emergency, Supervisor, Lockout, Passage, Normal, and One Time User codes. The Master code is always code location number 1 and can be used to operate and program the eForce 150. Use the included record log to assign and log all codes before proceeding on to programming. Store the log in a secure location.

eFORCE 150 PROGRAMMING GUIDE: FOLLOW STEPS 1 THROUGH 7

STEP 1: MASTER CODE (Quick Step Programming) (Location 1)

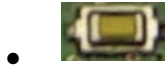
-  **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
-  Enter **1234 #** (Green flash with 2 short tones)
-  Enter **51 #** (Green flash with 2 short tones)
-  Enter **1 #** (Green flash with 2 short tones)
- **Enter new Master Code #** (4-7 digits) (Green flash with 2 short tones)
- **Re-Enter new Master Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming

Press # within 2 seconds to stay in programming mode, and then enter 51# to continue steps 2 through 7.

(Note* if Master Code is lost, the controller's Master and Emergency Codes may be reset to factory defaults (1234 and 4321 respectively). To accomplish this task:

- **MASTER CODE RESET**

Depress and hold the reset button located on the backside of the eForce 150 on the printed circuit board (Note* eForce 150 must be removed from the door to reset).



Depress and hold Reset Button and # Key



Release both when yellow LED blinks.

- **A green and red flash with tone will indicate a successful reset.**

(Note* at this point the Master and Emergency Codes have been replaced with the factory default codes (1234 & 4321), all other codes will remain intact. In order to accomplish any additional programming of features and codes, the Master and Emergency Codes must be changed from the defaults.)

STEP 2: EMERGENCY CODE (Location 2)



Depress and hold # key (approximately 5 seconds).

- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter New Master Code #** (Green flash with 2 short tones)



Enter 51 # (Green flash with 2 short tones)



Enter 2 # (Green flash with 2 short tones)

- **Enter desired Code #** (4-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode, then enter 51# to continue steps 3 through 7.

(Note* Emergency Code defaults to a 10 sec. unlock time [PCC 46#].)

STEP 3: SUPERVISOR CODE (Location 3)



- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master Code#** (Green flash with 2 short tones)



- Enter **51 #** (Green flash with 2 short tones)



- Enter **3 #** (Green flash with 2 short tones)
- **Enter desired Code #** (4-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode then enter 51# to continue Steps 4 through 7.

STEP 4: LOCKOUT CODE (Location 4)



- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)



- Enter **51 #** (Green flash with 2 short tones)



- Enter **4 #** (Green flash with 2 short tones)
- **Enter desired Code #** (4-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode then enter 51# to continue Steps 5 through 7.

STEP 5: PASSAGE CODE (Location 5)



- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)



- Enter **51 #** (Green flash with 2 short tones)



- Enter **5#** (Green flash with 2 short tones)
- **Enter desired Code #** (4-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode then enter 51# to continue Steps 6 through 7.

STEP 6: NORMAL USER CODES (Locations 6-150)



- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)



- Enter **51 #** (Green flash with 2 short tones)



- Enter **6# through 150 #** (Green flash with 2 short tones)
- **Enter desired Code #** (2-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode then enter 51# to continue Step 7.

STEP 7: ONE TIME USER CODES



- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)



- Enter **51 #** (Green flash with 2 short tones)



- Enter **151 or 152 #** (Green flash with 2 short tones)
- **Enter desired Code #** (2-7 digits) (Green flash with 2 short tones)
- **Re-Enter Code #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

DELETE ALL USER CODES (Return to Factory Default)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 60 #** (Green flash with 2 short tones)
- **Re-Enter 60 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.
- Note: Supervisor Code will delete locations 6-150.

DELETE SUPERVISOR, LOCKOUT, PASSAGE, OR A SINGLE NORMAL USER CODE

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master Code #** (Green flash with 2 short tones)
- **Enter 61 #** (Green flash with 2 short tones)
- **Enter Code Location #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.
- Note: Supervisor Code will delete locations 4-150.

DELETE A BLOCK OF NORMAL USER CODES

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 62 #** (Green flash with 2 short tones)
- **Enter First Location** (of block to be deleted) # (Green flash with 2 short tones)
- **Enter Last Location** (of block to be deleted) # (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful code programming.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes

- Note: Master Code will delete locations 3-150.
Supervisor Code will delete locations 6-150.

RESET ALL FEATURES TO DEFAULT VALUES

(NOT INCLUDING CODES)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 72 #** (Green flash with 2 short tones)
- **Enter 72 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful reset to default.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET AUDIBLE KEYPAD FEEDBACK

(DEFAULT IS ENABLED)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 31 #** (Green flash with 2 short tones)
- **Enter 1 # to Enable** (Green flash with 2 short tones)
- **or Enter 0 # to Disable** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET VISUAL KEYPAD FEEDBACK

(DEFAULT IS ENABLED)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 32 #** (Green flash with 2 short tones)
- **Enter 1 # to Enable** (Green flash with 2 short tones)
- **or Enter 0 # to Disable** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET NUMBER OF SUCCESSIVE INVALID USER CODE ENTRIES ACCEPTED

(THIS NUMBER CAN BE BETWEEN 1 AND 255 ATTEMPTS. DEFAULT IS 5)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 33 #** (Green flash with 2 short tones)
- **Enter 1 to 255 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET THE ERROR LOCKOUT TIME

(THIS IS THE AMOUNT OF TIME THE USER IS UNABLE TO USE THE KEY-PAD FOLLOWING SUCCESSIVE INVALID ATTEMPTS. THIS NUMBER CAN BE BETWEEN 1 AND 255 SECONDS. DEFAULT IS 15 SECONDS)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 34 #** (Green flash with 2 short tones)
- **Enter 1 to 255 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET THE HOLD-OPEN (UNLOCK) TIME

(THIS IS THE AMOUNT OF TIME THE eFORCE 150 WILL REMAIN UNLOCKED FOLLOWING A SUCCESSFUL USER CODE ENTRY. THIS NUMBER CAN BE BETWEEN 1 AND 9 SECONDS. DEFAULT IS 5 SECONDS)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 44 #** (Green flash with 2 short tones)
- **Enter 1 to 9 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

SET EMERGENCY HOLD-OPEN (UNLOCK) TIME

(THIS NUMBER CAN BE BETWEEN 1 AND 9 SECONDS. DEFAULT IS 10 SECONDS)

- **Depress and hold # key** (approximately 5 seconds).
- **Release when yellow LED blinks.** (Yellow LED will blink continuously during programming)
- **Enter Master or Supervisor Code #** (Green flash with 2 short tones)
- **Enter 46 #** (Green flash with 2 short tones)
- **Enter 1 through 9 #** (Green flash with 2 short tones)
- Green flash with 2 short tones will repeat to indicate successful setting.

Press # within 2 seconds to stay in programming mode. The following Options and Settings require different PCC Codes.

BATTERY REPLACEMENT

The eForce 150 goes into blackout mode when the voltage drops to 3.8V. If this happens, users 6-152 will be locked out. Only Master, Emergency, and Supervisor codes will allow access in this mode. No codes will be lost during low power conditions, blackout, or battery replacement, as they are stored in non-volatile memory. The eForce 150 shall be capable of operating in temperatures from -35°C with lithium batteries and -10°C with alkaline

Replacing Batteries

Insert key into the cylinder, turn key 180 degrees clockwise to release blocking plate.

(Fig 1)

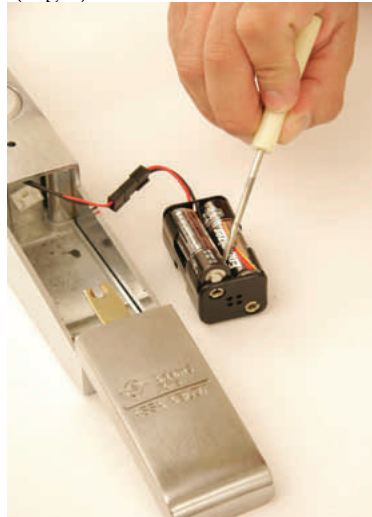


Insert allen key (included) and loosen the screw to allow removal of the battery cover (Fig 1).

Be careful to support the battery cover with your free hand. **Caution:** Once loose, the battery cover is free to slide down and can fall.

Replace all 4 AA batteries (alkaline only) in the correct polarity position.

(Fig 2)



A small screwdriver is helpful when removing batteries from holder. (Fig 2)

Reinstall the battery holder into the housing and slide the battery cover into position and tighten screw with allen key.

Remove the allen key. Turn key into the neutral position and remove key from the cylinder.

Enter a known user code to ensure the eForce 150 is functioning correctly.

Refer to Trouble Shooting section if eForce 150 does not function properly.

REPLACING MORTISE CYLINDER

(Fig 3)



Insert key into Cylinder, turn key 180 degrees Clockwise to release blocking plate.

Insert allen key (included) and loosen the screw to allow removal of the battery cover (Fig 3).

Be careful to support the battery cover with your free hand. **Caution:** once loosened, the battery cover can slide down and fall.

Disconnect battery holder from eForce 150. Weight of batteries can damage or break the wiring. (Fig 4.)

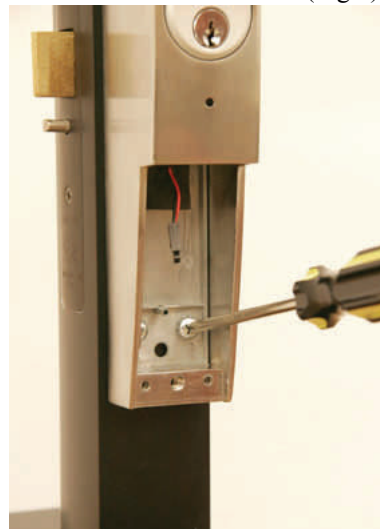
Remove two (2) #10-32 x 5/8 screws from the inside bottom of trim. (Fig 5).

Lift eForce 150 off mounting bracket. Be careful not to lose spindle located in the spindle output on the back of the eForce 150.

(Fig 4)



(Fig 5)



(Fig 6)



Remove Back Plate of eForce 150 with Caution! There are wires attached to housing and back plate.

Using a Phillip Head Screwdriver, remove the (8) #10-32 x 5/8 screws on the back of the eForce 150 and gently lift the back plate off the housing. (Fig 6).

(Fig 7)



Remove cylinder with Locking Ring Tool (P/N 22-0594) and replace with new cylinder and secure with locking ring. (Fig 7).

Gently place Back Plate back on housing and secure with (8) #10-32 x 5/8 screws.

(Fig 8)



Place eForce 150 back on mounting bracket and guide spindle into cam plug. (Fig 8).

Make sure that back surface of trim is flush with door stile surface then secure with two (2) #10-32 x 5/8 screw thru the inside bottom of trim.

(Fig 9)



Reinstall the battery holder into the housing and slide the battery cover into position and tighten screw with allen key. (Fig 9)

Remove allen key. Turn key into the neutral position and remove key from the cylinder.

Enter a known user code to ensure the eForce 150 is functioning correctly.

Refer to Trouble Shooting section if eForce 150 does not function properly.

TROUBLE SHOOTING:

Green light comes on, but lever will not retract latch-bolt.

- Check the eForce 150 body connection with lock/latch mechanism.
- Check the cylinder tailpiece length (see installation instructions).
- Check for proper door preparation (refer to door templates).

No lights come on when pushbuttons are depressed.

- Ensure Visual Keypad Feedback is set to Enable (PCC32).
- Check battery installation.
- Check 6 Volt battery
- Check keypad terminal connection.

No tones sound when pushbuttons are depressed.

- Ensure Audible Keypad Feedback is set to Enable (PCC 31).
- Check battery installation.
- Check 6 Volt battery
- Check keypad terminal connection.

Factory default codes not working.

- Delete all users and reprogram default codes.

User codes not working.

- Ensure Lockout code has not been entered.
- Check battery power (operator may be in blackout mode). See above for battery replacement.
- Check eForce 150 body connection.

Operator stays unlocked.

- Ensure Passage code has not been entered.
- Check cylinder tailpiece length (see installation instructions).
- Check eForce 150 body connection.

eForce 150 User Log					
Installation Date			Door Description		
Location	User Name	Code	Notes		
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eForce 150 User Log

Installation Date

Door Description

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eForce 150 User Log

Installation Date

Door Description

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eForce 150 User Log

Installation Date

Door Description

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LIMITED WARRANTY

Adams Rite Manufacturing Co. (hereinafter ADAMS RITE) manufactures its products in a manner to be free of defects. Should any defect of manufacture (in material or workmanship) occur in its products, ADAMS RITE, upon prompt notification and proof to its satisfaction that the product was defective in manufacture for the use intended by ADAMS RITE, will at its option, exchange the product, repair the defect or refund the price charged by ADAMS RITE, FOB factory based on the following schedule:

- All mechanical products for five (5) years from the date of manufacture;
- All electrical products (including EL and ED exit devices) for three (3) years from the date of manufacture;
- The RITE Door[®] for five (5) years from the date of manufacture;
- UltraLine Electric Strikes for five (5) years from the date of manufacture.

Limitations and exclusions:

This is a limited warranty and is in lieu of all other warranties including the implied warranties of merchantability and fitness for use) and under no circumstances shall ADAMS RITE be liable for any incidental or consequential damages or losses.

This warranty covers products as outlined above manufactured from May 1, 2003 forward.

This warranty does not cover damages from such causes as abuse, accident, neglect, fire or freight damage.



ASSA ABLOY

Adams Rite Manufacturing Co.

260 Santa Fe Street

Pomona, CA 91767

Phone: 800-872-3267

Fax: 800-232-7329

www.adamsrite.com