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# **Trilogy** ETDL PANIC EXIT DEVICE TRIM Programming Instructions

WI1670A 12/10



ETDL--Panic Exit Device Trim



AL-DTM DATA TRANSFER MODULE





AL-IR1 PRINTER

# Alarm Lock Trilogy Series Stand-Alone Access Control Systems

# **DL SERIES LOCKS**

THE **ALARM LOCK** TRILOGY DL-SERIES STAND-ALONE ACCESS CONTROL SYSTEM IS A SERIES OF STATE-OF-THE-ART MICROPROCESSOR-BASED PROGRAMMABLE KEYPAD-ENTRY SECURITY LOCKS.



### ETDL

The ETDL Series lock is a mortise-based lock for use with push bar applications. Features a real-time clock/calendar that automatically adjusts for Daylight Saving Time and allows for automated programming of events. Features three methods of programming: (1) all features can be programmed manually through the keypad; (2) you can transfer programming instructions directly from your laptop or desktop PC using DL Windows software and a special *AL-PCI* cable; and (3) data can be transferred from your PC to your DL lock via the AL DTM handheld *Data Transfer Module*. In addition, data can be retrieved from the lock in one of three ways (1) through an infrared printer; (2) directly from the lock to the PC; or (3) through an AL-DTM to your PC.

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# **DL Series Lock Features**

### Audit Trail

- 40,000 Event Capacity\*
- Entries Logged with Time and Date
- Critical Programming Events Logged
- Printable using the AL-IR1 Hand-Held Printer (see page 22, Function 55)
- Uploadable using Alarm Lock's DL-Windows software (see page 22, Function 58)
- Transferable to AL-DTMs\*

### Lock Features

- Metal Key Override for all cylindrical locks
- Keypad Lockout (see page 23, Functions 60-61)
- Non-Volatile (Fixed) Memory
- Real-Time Clock (within one second accuracy) (see page 20, Functions 43-44)
- Programmable Relay (see page 27)
- Visual and Audible Keypad Feedback (see page 9)
- Battery Status Monitor (see page 9)

### Scheduling

- 500 Scheduled Events (see pages 25-30)
- Automated Unlock/Lock
- Enable/Disable Users (see page 16, Function 3)
- Enable/Disable Groups (see page 17)
- Four "Quick Schedules" (contains 4 most common schedules) (see page 26)
- Real-time clock and calendar (see page 19)
- Programmable Timeout Functions (see page 18)

### **User Access Methods**

- Keypad Entered User Codes (see page 15)
- Metal Key Override

### **User Features**

- 2000 Users
- 6 Pre-defined Administration User Levels including *Master*, *Installer*, *Manager*, *Supervisor*, *Print-Only* and *Basic* User Codes (see page 8)
- User Code Lengths from 3-6 digits
- Service Code ("One-Time-Only" Code) (see page 7)
- User Lockout Mode (see page 16, Function 6)
- Users Assignable to 4 Groups (see page 18)
- Ambush Function (see page 23, Function 66)

### **Keypad and Computer Programming**

• All programming may be performed manually from the keypad, or from a PC using Alarm Lock's DL-Windows Software (see page 4)



\* Only 5000 of the most recent events are transferred using the AL-DTM.





# **Supported Products**



### Data Transfer Module (AL-DTM)

An **AL-DTM** can be used to transfer Lock Programs (and other data) between DL-Windows and locks. When computers cannot be transported or when electrical power is not available, the hand-held **AL-DTM** device acts as a go-between---it allows the transfer of lock data from the computer (through the **AL-DTM**) and to the lock, or in reverse (from the lock through the **AL-DTM** back to the computer). **Note:** Only 5000 events are transferred using the AL-DTM.



### Infrared Printer (AL-IR1)

An **AL-IR1** printer is used to print Audit Trails and User Code lists without the need for a PC. Its infrared reader means no cable connection to the lock is needed.



### AL-PCI Cable

An ALARM LOCK **AL-PCI** cable is required to communicate between your computer's RS-232 serial communications port (COM 1-4) and the **AL-DTM** or lock. One end of the **AL-PCI** cable is designed to be used on a 9-pin serial Com Port. If your computer has a 25-pin Com Port only, a 25-pin to 9-pin adapter must be used. The other end of the **AL-PCI** cable features a 2-pin banana plug connector which is polarity sensitive--the TAB (marked "GND") side must be plugged into the lock's **black** (left) terminal.



### **Double-ended Mini Banana Plug Connector**

After you create the program in DL-Windows and transfer the program from your computer to an **AL-DTM**, transfer the program from the **AL-DTM** to the lock(s) via a double-ended mini banana plug.



### DB9 to DB9 Serial Cable

Enroll User Codes into DL-Windows, then transfer this new User Code data from the computer to the **AL-PRE** via this 9-pin DB9 to DB9 serial cable. Once the data is in the **AL-PRE**, you can transfer the data to the lock via the double-ended mini banana plug (see above), thus avoiding the need to use an **AL-PCI** cable for this process.



### USB to RS-232 Cable

If your computer does not have a serial COM port (DB-9 male) available, you can plug your AL-PCI2 cable into a special USB to RS-232 cable. Order part **MX1130** for the USB to RS-232 cable only, or **ALPCI2-U** for both the USB to RS-232 cable and an AL-PCI2 cable.

# Lock Design Overview

### Why Use Software inside a Lock?

With ordinary door locks, the need to make physical copies of metal keys and distributing them can be a huge organizational and financial task -- and what will you do if someone causes a security breach by losing their key?

The answer lies in the advantage of software. Software (also called "firmware") is not "hard" or "fixed" like hardware is. Software is "soft" -- flexible and changeable to your needs. Software exists inside your Alarm Lock™ series lock, and can be programmed (and reprogrammed again and again) to suit your changing requirements. No more metal keys to distribute...instead, distribute *User Codes* -- and delete them from the software when needed. (A *User Code* is the software equivalent of a metal key--it is a series of numbers the User enters into the door lock keypad to unlock the lock).

### Preparing to Program your Lock

The keypad contains 12 buttons, numbers 1 through 9 plus zero, a star button (1) and a special "AL" button (12). These 12

buttons are all you need to program your lock. In addition to manually programming your lock (using only the keypad), you can also program your lock using a computer program called DL-Windows. DL-Windows is not needed--but it makes programming faster and easier. This guide will show you how to program your lock manually, without DL-Windows. (For more information about DL-Windows, see User Guide OI237).

Programming your lock begins after you unpack it from the box -- there is a specific procedure outlined in "Quick Start" (page 12) in which you "wake up" the lock to prepare it for programming. This "Quick Start" procedure shows you all the steps required to get your lock to start working. To begin programming, you must first enter something called "Program Mode".

### What is Program Mode?

With software, changes are made using the keypad. The software has only two "modes"--"Normal Mode" and "Program Mode". When you want to make changes to the lock programming, you enter "Program Mode". When you finish programming and wish to put the lock into use, you exit Program Mode to enter "Normal Mode".

Program Mode is entered using the keypad, by pressing the *Master Code* of the lock. The Master Code is basically a secret passcode that allows you to enter Program Mode. But since all locks are manufactured identically and leave the factory with the same Master Code, the "factory Master Code" is therefore not very secret--and should be changed to your own personal Master Code. This way, only YOU can enter Program Mode and make changes to the lock programming.

Once the new Master Code is set, then you can continue with the *Quick Start* procedure and set the weekday, date and time. After this, you can start entering User Codes for people to use. All changes to the lock are organized by their Function Number. Want to change the date? Use Function Number 38. Want to add a User Code? Use Function Number 2. There are 99 Functions in total, some that you will use often, and others that you may never need.

```
Notice that when you program your lock, programming tends to follow a consistent 5-step pattern: (1) Enter Program Mode (2) Press followed by the Function # (3) Press and enter data (4) Press for to end (5) Exit Program Mode.
```

Turn the page and learn about the special terminology used with your lock. Once that is clear, use the Quick Start procedure (on page 12) to help you get up and running.



# **Terminology Used in this Manual**

### What is a Lock Program?

A Lock Program contains the instructions that a lock uses to perform its various functions. You can use the keypad to create a Lock Program stored within the lock. You can also use DL-Windows (defined below) to create a Lock Program on your computer, and then transfer and store the Program in the circuitry contained inside the lock itself. The Lock Program is essentially a computer database file that maintains feature settings, schedules, audit trails, etc. Using DL-Windows, Lock Programs can be created with default information, edited on your PC, and then sent to (and even received from) locks.

The Lock Program consists of 4 areas: User Codes, Features, Time Zones, and Schedules, all defined below:

### What are User Codes?

Also called *User Access Codes* or *PIN No. Codes*, User Codes are numbers the User presses into the lock keypad to unlock the lock. The User Codes are part of the Lock Program, and the Lock Program is stored in the lock circuitry awaiting the Users to key in their User Codes.

### What are Features?

Your lock is designed to support several options and functions. Using the keypad or DL-Windows software (the **Programmable Features** window), you can select the features you wish to activate, such as if the lock will automatically adjust for Daylight Saving Time in the spring and autumn, or if the lock sounder should be disabled or enabled.

### What is a TimeZone?

Events (recorded lock activities) can be programmed to occur at certain times. It is these times (for example, "every Tuesday at 5PM") that are referred to as *TimeZones*. TimeZones can be created manually through the keypad. In DL-Windows, you can create TimeZones, and link TimeZones to events.

### What is a Schedule?

Your lock can be programmed to maintain a schedule in which certain events can occur automatically. For example, you can program the lock to allow Groups of Users (with their User Codes) access ONLY during specific business hours. With another example, you can program another lock to UNLOCK at 9am, LOCK at noon for lunch, UNLOCK at 1pm, and LOCK again at 5pm--every weekday. As you can see, many different combinations of Schedules can be created to suit the needs of the Users. First you create *TimeZones* (see above), then create events and link them to your TimeZones. When finished, you can view your complete schedule in DL-Windows.

### What is a User?

A User is a person who is authorized to simply use or make certain programming changes to the lock. This User can be anyone--from a one-time visitor (who will almost certainly have no authority to make changes) to the owner of the building in which the lock is installed (who will probably wish to have total authority to make changes). The ETDL Series lock can hold hundreds of Users in its programming memory, and each User possesses a pre-defined level of authority--a **Programming Level**--as to their ability to use or make changes to the lock.

### What is a Programming Level?

The Programming Level defines the range of programming

tasks a User is allowed to perform. The higher the Level, the more programming tasks the User is allowed (with Master allowing ALL tasks).

**Note:** Since the Programming Level is closely associated with the type of User and their abilities, a User who holds a certain Programming Level is sometimes referred to by their "**User Type**".

For example, the ETDL Series lock can hold up to 2000 Users in its programming memory, and each User is associated with a User Number (see definition of "User Number" below) and therefore a specific Programming Level, as follows:

- **Master:** Always associated with User Number 1. Is always enabled and can program all functions. (Abbreviated as Programming Level = M).
- **Installer:** Always associated with User Numbers 2 and 3. Can program all functions except changing the Master Code. (Abbreviated as Programming Level = 4).

Manager: Always associated with User Numbers 4, 5, and 6. Can program all functions except functions relating to lock configuration. (Abbreviated as Programming Level = 3).

**Supervisor:** Always associated with User Numbers 7, 8 and 9. Can only program functions relating to day to day operation. (Abbreviated as Programming Level = 2).

- **Print Only Users:** Always associated with User Numbers 10 & 11. Restricted to print event logs only. No other programming ability allowed. (Abbreviated as Programming Level = 1).
- **Basic Users:** Always associated with User Number 12 and higher (except 297-300). No programming ability allowed. Most Users are *Basic Users*, who are given their own personal User Codes and are only allowed to simply unlock the lock when desired.

Programming Levels are hierarchical--higher levels are allowed to do anything the levels below them can do. For example, if you are a *Manager*, you are allowed to do anything that *Supervisors*, *Print-Only Users* and *Basic Users* can do in addition to those tasks allowed for Managers (Level 3). **See page 8 for more information**.

### What is the Minimum Required Program Level?

This Programming Level abbreviation is the *minimum* programming level required to access the particular Function. (The higher the level number, the more programming tasks the User is allowed, with Master allowing all tasks).

In this manual, Programming Levels for the DL series locks are abbreviated as follows: M = Master, 4 = Installer, 3 = Manager, 2 = Supervisor, 1 = Print Only Users. See page 8 for more information.

### What is a User Number?

(User Number = Location Number = User Location = Slot in Lock)

User Numbers are used and are significant within each individual lock only. The User Number determines the Programming Level for each User. For example, the ETDL Series lock can hold up to 2000 Users in its programming memory. This memory can be thought of as simply a numbered list from 1 through 2000. Each entry in the list is represented by a User Number. Therefore, *where* a User is located in this list--their User Location--is a commonly used description of their User Number. Because of their similarities, a User Number, User Location

# Terminology Used in this Manual (cont'd)

and *Location Number* can be used interchangeably. In some DL-Windows screens, the word "Slot" is also used. They all mean the same thing.

Since User Numbers are fixed, knowing a User Number will specify the associated Programming Level, and will in turn indicate a User's programming abilities. For example, User Number 1 is always the Master, who can perform all programming tasks.

Programming Levels are hierarchical--higher levels are allowed to do anything the levels below them can do. For example, if you are User 2, you are allowed to do anything that Users 3 through 11 can do.

### What is a Group?

With many lock applications, it is convenient for large numbers of similar Users to be grouped together. Placing Users into Groups (by assigning them specific User Numbers) allows large numbers of Users to be controlled all at once rather than individually--saving time and effort. Groups are controlled via schedules, and a typical example involves enabling or disabling a Group at a certain time. Default Group associations are specified in the tables on page 8. For example, if you wish to add a User to Group 1, assign this User a User Number between 51 and 100. These default Group associations can be changed if needed to allow Groups larger than the default number of 50 (by using keypad Function 35). (See page 18 for some Group function examples).

### Who are Users 297-300?

Users assigned to User Numbers 297, 298, 299 and 300 have special abilities, as follows:

### User 297: Quick Enable User 300

User 297 possesses the unique ability to enable the User Code associated with User 300. User 297 does this by first entering their own *User 297 User Code* into the lock keypad. When User 300 subsequently enters their *User 300 User Code*, the lock allows access (for one time) and then the *User 300 User Code* becomes disabled.

For example, you wish to allow one-time access to a temporary worker. Simply enter the *User 297 User Code* into the lock keypad. Later, when the temporary worker enters the *User 300 User Code* into the lock keypad, the *User 300 User Code* allows access (for one time only) and then becomes disabled. Later, if you wish to grant the temporary worker reaccess, simply re-enter the *User 297 User Code* and the *User 300 User Code* will be re-enabled (again for one time only).

### User 298: Quick PC Access Code

Entering the User Code for User 298 enables that User to send data to or from the lock. Therefore, User 298 can activate what is the equivalent of Function 58 in Program Mode (see page 22), without the need to enter Program Mode nor the need to know the Master Code of the lock. An AL-PCI cable with a PC is required.

### User 299: AL-DTM Code

This is the only User Code that will initiate data transfer with the AL-DTM--and without allowing the User to pass through the door (the User Code for User 299 is not an Access Code). An AL-PCI cable and an AL-DTM (first programmed by the computer via DL-Windows) is required.

### User 300: One-Time Only Service Code

This is a *One-Time Only Service User Code* enabled by User 297. For example, User Code 300 is sometimes used for guard tour duties. See *User 297: Quick Enable User 300* above.

### What is DL-Windows?

DL-Windows is a computer program that allows you to program your ALARM LOCK T3 Security Lock. You do not need DL-Windows to program your lock, but it makes programming much faster and easier. With DL-Windows, you can quickly create Lock Programs (programs that make the lock perform its many functions) add multiple Users (who have access), retrieve event logs, and create Schedules. The benefit of DL-Windows is that it allows you to set up all lock programming in advance (on your computer), and then later send the information to the locks at your convenience.

# **Programming Levels**

The Programming Level defines the range of programming tasks a User is allowed to perform. The higher the Level, the more programming tasks the User is allowed (with Master allowing ALL tasks).

**Note:** Since the Programming Level is closely associated with the type of User and their abilities, a User who holds a certain Programming Level is sometimes referred to by their "**User Type**".

For example, the ETDL Series lock can hold hundreds of Users in its programming memory, and each User is associated with a User Number (see definition of "User Number" in the previous "Terminology" section) and therefore a specific Programming Level, as follows:

- **Master:** Always associated with User number 1. Is always enabled and can program all functions. (Abbreviated as Programming Level = M).
- Installer: Always associated with Users 2 and 3. Can program all functions except changing the Master Code. (Abbreviated

as Programming Level = 4).

- **Manager:** Always associated with Users 4, 5, and 6. Can program all functions except functions relating to lock configuration. (Abbreviated as Programming Level = 3).
- Supervisor: Always associated with Users 7, 8 and 9. Can only program functions relating to day to day operation. (Abbreviated as Programming Level = 2).

Print Only Users: Always associated with Users 10 & 11. Restricted to print audit trails only. No other programming ability allowed. (Abbreviated as Programming Level = 1).

**Basic Users:** Always associated with User number 12 and higher (except 297-300). No programming ability allowed.

Programming Levels are hierarchical--higher levels are allowed to do anything the levels below them can do. For example, if you are a *Manager*, you are allowed to do anything that *Supervisors*, *Print-Only Users* and *Basic Users* can do in addition to those tasks allowed for Managers (Level 3).

	Lock Defau	Its for ETDL	
Users ac	dded will default to a Group Assoc	iation and a Programming Level as	s follows:
USER TYPE	USER NUMBER	GROUP DEFAULT ASSOCIATION	MINIMUM PROGRAM LEVEL (See page 6)
Master Code	1	-	М
Installer Codes	2 & 3	none	4
Manager Codes	4 - 6	none	3
Supervisor Codes	7 - 9	none	2
Print Only Codes	10 - 11	none	1
Basic User Codes	12 - 50	none	none
Basic User Codes Group 1	51 - 100	1	none
Basic User Codes Group 2	101 - 150	2	none
Basic User Codes Group 3	151 - 200	3	none
Basic User Codes Group 4	201 - 250	4	none
Basic User Codes	251 - 296	none	none
Quick Enable User 300 Code	297	none	none
Quick PC Access Code	298	none	none
AL-DTM Code	299	none	none
Service Code	300	none	none
Basic User Codes	301-2000	none	none

### NOTES:

User 299 is a Non-Pass Code. This is the only code that will initiate data transfer with the AL-DTM.



### General Program Mode Information

If a wrong key is pressed during code entry, hold any key continuously until the error sound is heard (7 short beeps), this will clear the entry. Re-enter the key sequence again.

All program sequences are followed by the 💌 key; 2 short beeps indicate a successful program sequence.

# **LED and Sounder Indicators**

The DL Series locks provide visual and audible keypad feedback. With a fully charged battery, the LED and sounder feedback is as follows:

ACTIVITY	LED	SOUNDER	COMMENTS
Keypress	1 RED Flash	1 Beep	Normal Operation
Access Granted or Remote Release	3 GREEN Flashes	3 Beeps	Remote release enabled through activa- tion of relay
Invalid Code	6 RED Flashes	6 Beeps	Re-enter User Code
Successful Program Entry	2 GREEN Flashes	2 Beeps	When in Program Mode
Unsuccessful Program Entry	7 RED Flashes	7 Beeps	When in Program Mode
Exit Program Mode	1 RED, 2 GREEN Flashes	10 Beeps	
Valid but Disabled Code	1 GREEN, 4 RED Flashes	1 long, 5 short beeps	Code exists in memory, but disabled
Low Battery	YELLOW Flash during key presses	Long Beep	See page 11 before changing batteries
User Code Entered	YELLOW Flash	Sequence of 7 Beeps Repeated 4 Times	Non-fatal memory or clock error has been detected. Under this condition, unexpected operation is possible. Re- move power and restart.



**Warning:** Polarity MUST be observed when connecting cables to the lock. The tab (-) must plug into the negative (black) hole.

# Wiring and Power Up

### WIRING

See the Installation Manual for more information.

### **Batteries:**

Use only 1.5 volt Alkaline size-AA batteries.

### **External Power:**

Red / Black wires - External 7.5 VDC Power Source must be used for operation without batteries.

### **Remote Input:**

White / White wires - Wire a Normally Open Contact to wires (white and white). Momentarily close to allow person to pass through door. <u>NOTE: Remote Input</u> is enabled from the factory. (See page 23)

### Relay:

COM-Blue / NO-Yellow / NC-Green - See page 24 (Function 67) for programming options for the Relay.

### Wiring to Disarm a Burglary Control Panel

Burglary Control Panel wiring. See page 27.

### **POWER UP**

- When applying power to the lock for the first time, stop and follow the procedure outlined in "Quick Start, First time Power Up" further in this manual.
- When power is re-applied to a lock that was already operational, proceed as follows:
- 1. Disconnect battery pack connector.
- With battery power disconnected, press and hold down for 10 seconds to insure discharge of all capacitors.
- 3. Re-connect battery pack (lock will sound 3 short beeps). If beeps are not heard, then restart at step 1.

### 4. Do not press any keys for 15 seconds.

5. After 15 seconds, the LED will flash red 6 times and 6 beeps will sound.

The lock is now ready for use. The pre-existing program is loaded from fixed memory. Set the clock using functions 38, 39 and 40.

### **ERASE ALL PROGRAMMING**

(The "out of box" factory default will be loaded)

- 1. Remove the battery pack.
- With battery power disconnected, press and hold down for 10 seconds to ensure discharge of all capacitors.
- 3. Re-install the battery pack (lock will sound 3 short beeps). If beeps are not heard, then restart at step 1.
- 4. Within 5 seconds after hearing the 3 short beeps, press and hold until the lock begins to beep, then release.

5. A series of 5 RED LED and 5 beeps will be heard followed by 10 seconds of silence, then 3 GREEN LEDs and 3 fast beeps.

All settings and programming have been erased and the lock is now ready for use. **Note:** All lock programming can also be erased (without need to disconnect the batteries) by entering Function 99.

### **BATTERY REPLACEMENT**

When a valid code is entered and the batteries are weak, the yellow LED will light and the sounder will sound for 4 seconds. DL Series locks use five (5) AA-size 1.5 volt alkaline batteries. Always replace weak batteries as soon as possible.

### CAUTION: Do not press any keys while batteries are disconnected or you may erase the real-time clock settings.

- 1. At the back of the lock, remove the screw at the bottom of the lock housing and remove the cover.
- 2. Pull out the battery pack and quickly replace all 5 batteries within 1 minute.
- 3. If you **do not** hear the 3 beeps when power is re-applied, all programming and settings have been retained, and the lock is ready for use. Go to step 5.
- 4. If you do hear 3 beeps when power is re-applied, do not press any keys for 15 seconds. After the 15 second period, the LED will flash red 6 times and 6 beeps will sound. Reset the clock using functions 38, 39 and 40.
- 5. Replace the cover and tighten the screw.

# **Quick Start**

### First Time Start Up

- 1. Unpack the lock.
- 2. With the batteries disconnected, hold down the E key for 10 seconds and release.
- 3. Connect the batteries and listen for 3 beeps. Within 5 seconds of hearing the 3 beeps, press and hold until beeping starts. This will clear the lock of all programmed data. Important: If you do not hear these 3 beeps, you must start over at step 2.
- 4. Listen for another series of beeps and LED flashes *followed by 10 seconds of silence*. The lock is now ready to program. Failure to follow this exact procedure can result in erratic lock behavior. **Important Note:** When entering any key sequence below, *do not pause more than 25 seconds between any key presses*--otherwise you must start again.

### Enter Program Mode and Change Factory Master Code

- 1. Press the default Master Code: 1 2 3 4 5 6.
- 2. Wait for the green light and press in until multiple beeps are heard. You are now in Program Mode.

**Note:** The lock will beep every 6 seconds as a reminder that you are in Program Mode.

3. Enter a new personal 6-digit Master Code number by pressing the following keys:

[Image: Inew Master Code] [Image: Inew Maste

(For example, if you want your new Master Code to be "664433". Press:

E 1 E 664433 E 664433 \*).

Now that the Master Code has been changed, there is no need to change it again (unless you want to). Since you are still in Program Mode, you can now proceed directly below and program various functions. **Note:** Programming any Function, such as setting the clock, follows a consistent 5-step pattern: (1) Enter Program Mode (2) Press

[Function #] (3) Press and enter data (4) Press is to end (5) Exit Program Mode.

**Note:** There is a 3 minute Program Mode timeout if no keys are pressed when in Program Mode. A steady tone will sound for the final 15 seconds of the 3 minute timeout period as a warning. To remain in Program Mode, press any key.

### Set the Weekday

- 1. Enter Program Mode (if not in already).
- Press (1) (4) (1) [number of weekday] (\*). (Use 1= Sunday, 7 = Saturday).
   (For example Friday press (1) (4) (0) (1) (6) (\*).

### Set the Date

- 1. Enter Program Mode (if not in already).
- 2. Press 💷 🕄 🖲 [MMDDYY] 💌.

(For example - May 10, 2002 - press 🕄 38 🕄 051002 💌).

### Set the Time

- 1. Enter Program Mode (if not in already. If you just finished the above procedure, you are still in Program Mode).
- 2. Press 💷 🛐 🗐 💷 [ннмм] 💽. (Use 24-hour military format, where PM adds 12 hours).

(For example - 2:30pm - press 💷 3 9 💷 1 4 3 0 💌).

### Enter User Codes

- 1. Enter Program Mode (if not in already).
- 2. Press 2 2 2 [User Number] 1 [new User Code] \*.
  (For example, John Smith is designated as User 21. You want him to use the code of "232323" to unlock the door. Program the lock by pressing: 1 2 1 1 2 3 2 3 2 3 \*).
- 3. Repeat step 2 for each new user.

### Delete a User Code

- 1. Enter Program Mode (if not in already).
- 2. Press 💷 📿 💷 [User Number] 💽.

# Quick Start (cont'd)

The lock will flash a green LED and beep continuously for 6 seconds. When the red LED flashes, the User Code is deleted. 3. Repeat step 2 for each new User.

### **User Code Conflicts**

Care should be taken not to program a new User Code which matches the first digits of any other User Code (only the User Code with the least number of digits will be recognized). **Example:** If User Codes 123 and 123456 are both entered in the system, only code 123 would be recognized, unless the ENTER Key has been enabled (see Function 69, see page 25). In addition, an error will sound if you try to program a new User Code that matches the first digits of the Master Code. **WARNING:** When attempting to change an existing Master Code, it is HIGHLY recommended that you enable all Groups (see Function 23 on page 17), exit Program Mode, and enter the new anticipated Master Code to verify that the

anticipated sequence does not currently open the lock. If the lock does not open, the anticipated Master Code to verify that the used as the new Master Code; if the lock opens, the anticipated Master Code already exists in the lock (as a User Code), and the anticipated Mater Code should NOT be used. Always repeat this procedure with any new anticipated Master Codes.

### **Exit Program Mode**

Hold Down any key for 3 seconds. Program Mode exit is confirmed by several beeps. You are now in normal operation.

### **Re-enter Program Mode**

If you wish to re-enter Program Mode, key-in your new 6-digit Master Code, and press 💷.

You are now ready to mount and install your DL series lock and give out your User Codes. Before installation, it is suggested you test and verify that all User Codes entered are active (see below).

# **Testing the Codes Entered**

### Verifying Basic Keypad User Codes

Test a valid User Code:

 VALID CODE - The Green LED will flash momentarily and the sounder will beep a few times after a valid code is entered.
 INVALID CODE - The RED LED will flash several times and the sounder will beep several times after an invalid code is entered. Use Function 2 to re-program the code.

# **Programming Functions--Overview**

Function 1	Change Master Code	See page 15
Function 2	Add/Delete/Change User Codes	See page 15
Function 3	User Disable (By User Number)	See page 16
Function 4	User Enable (By User Number)	See page 16
Function 5	User Enable with Timeout	See page 16
Function 6	Enable Total User Lockout	See page 16
Function 7	Disable Total User Lockout	See page 16
Function 8	Reserved	-
Function 9	Enable User 300 (Service Code)	See page 16
Function 10	Erase All Users Except the Master Code	See page 16
Function 11	Reserved	-
Function 12	Clear All Schedules and Timeout Functions	See page 17
Function 13	Clear All Timeout Functions	See page 17
Function 14 - 17	Group 1-4 Disable	See page 17
Function 18	Disable All Groups	See page 17
Function 19 - 22	Group 1-4 Enable	See page 17
Function 23	Enable All Groups	See page 17
Function 24	Reserved	-
Function 25 - 28	Group Disable with Timeout	See page 18
Function 29	Disable All Groups with Timeout	See page 18
Function 30 - 33	Group Enable with Timeout	See page 18
Function 34	Disable All Groups with Timeout	See page 18
Function 35	Group Add/Delete Association	See page 18
Function 36 - 37	Reserved	-
Function 38	Set Date	See page 19
Function 39	Set Time	See page 19
Function 40	Set Weekday	See page 19
Function 41	Daylight Saving Time Start Date	See page 19
Function 42	Daylight Saving Time End Date	See page 19
Function 43	Speed Up Clock	See page 20
Function 44	Slow Down Clock	See page 20
Function 45 - 46	Passage Mode Enable/Disable	See page 20
Function 47	Timed Passage Mode	See page 20

Function 48	Enable Passage Mode	See page 21
Function 49	Disable Passage Mode	See page 21
Function 50	Return Lock to Normal Passage Mode Schedule	See page 21
Function 51	Passage Mode Configuration	See page 21
Function 52 - 54	Pass Time	See page 21
Function 55	Print Audit Trail	See page 22
Function 56	Print User Code List	See page 22
Function 57	Print Clock Settings and Software Version	See page 22
Function 58	Upload/Download PC Data	See page 22
Function 59	Reserved	-
Function 60	Number of Attempt Before Lockout	See page 23
Function 61	Set the Attempts Lockout Time	See page 23
Function 62 - 63	Reserved	-
Function 64 - 65	Disable/Enable Remote Input	See page 23
Function 66	Ambush Code	See page 23
Function 67	Add Relay/System Features	See page 24
Function 68	Delete All Relay Functions and System Options added by Function 67	See page 24
Function 69 - 70	Enable/Disable Enter Key	See page 25
Function 71	Reserved	-
Function 72 - 73	Scheduled Enable/Disable Passage Mode	See page 25
Function 74 - 77	Schedule Enable Group 1 - 4	See page 25
Function 78	Schedule Enable All Groups	See page 25
Function 79 - 82	Schedule Disable Group 1 - 4	See page 25
Function 83	Schedule Disable All Groups	See page 25
Function 84 - 87	Quick Schedules - Enable Group	See page 26
Function 88	Passage Mode (Open Time Window)	See page 26
Function 89	Passage Mode (Close Time Window)	See page 26
Function 90	Relay Activation (Open Time Window)	See page 27
Function 91	Relay Activation (Close Time Window)	See page 27
Function 92	Enable Group 4 (Open Time Window)	See page 28
Function 93	Enable Group 4 (Close Time Window)	See page 28
Function 94 - 98	Reserved	-
Function 99	Clear All Lock Programming	See page 28



### Lock Defaults for ETDL

See page 8. Users added will default to a Group Association and a Program Level Ability as follows:

USER TYPE	USER NUMBER	GROUP DEFAULT ASSOCIATION	MINIMUM PROGRAM LEVEL (see page 6)
Master	1	-	M (All Programming Abilities)
Installers	2 & 3	none	<b>4</b> (Also 3, 2, 1)
Managers	4 - 6	none	<b>3</b> (Also 2, 1)
Supervisors	7 - 9	none	<b>2</b> (Also 1)
Print Only Users	10 - 11	none	1
Basic Users	12 - 50	none	none
Basic Users in Group 1	51 - 100	1	none
Basic Users in Group 2	101 - 150	2	none
Basic Users in Group 3	151 - 200	3	none
Basic Users in Group 4	201 - 250	4	none
Basic Users	251 - 296	none	none
Quick Enable User 300	297	none	none
Quick PC Access	298	none	none
AL-DTM Code*	299	none	none
Service User	300	none	none
Basic Users	301-2000	none	none

\* User 299 is a Non-Pass Code. This is the only code that will initiate data transfer with the AL-DTM.

USERS (Continued)				
er Enable/Disable (By User Number)				
User Number must be between 2 and 2000. IOTE: Will Enable/Disable Users even if the User is associated lumber and their associated User Code. If the disabled User Co with 1 long and 5 short beeps) indicating that the User Code exi	with an enabled G ode is entered, the ists in memory, bu	Froup. Use Feature 3 to lock will flash 1 Green a t is disabled. Function 4	disable a specific User and 4 Red Flashes 4 will "undo" Function 3.	2
3. Disable User		(User Number)	*)	
4. Enable User		(User Number)	*	
<b>5. User Enable with Timeout</b> Enter Timeout, XXX Hours) This Function enabled through keypad only)		[] (User Number)	[] (XXX Hours)	
<ul> <li>With Function 5, User Numbers must be between 2-2000, he</li> <li>Function 5 can <i>temporarily</i> override a disabled User (disable</li> <li>Since this is a temporary feature, Function 5 can only be ena</li> <li>Example: Brian, User Number 1157, rarely works at the off Program Mode and pressing:</li> <li>NOTE: Up to 4 Timeout Functions may be pending at any o than 4 Timeout Functions.</li> </ul>	ours must be betweed using Function abled using the ke fice, but when he 577	veen 1-999. 3 above). eypad. loes, enable him for his 00008 *	s 8 hour work day by entering ]. attempting to program more	2
Jser Lockout Mode				
Prevents all User Codes (Except User 1 Code) from operating unctions or schedules will re-enable Users. Users <u>must</u> be re- lote: Does not change the User enable/disable status. <b>Note:</b> door "unlocked") and Function 6 is programmed, the lock will re-	g the lock. <b>Note:</b> enabled with Fund: If the lock is cur emain in Passage	No other programming ction 7. rently in Passage Mode Mode.	M S	
6. Enable Total User Lockout Mode (This Function enabled through keypad only)		*		
<b>7. Disable Total User Lockout Mode</b> (This Function enabled through keypad only)		*		
8. Reserved				
. Enable User 300 (Service Code)		*		
Service Code is a One-Time-Only Code. Once it is used, it is <b>NOTE:</b> User Number 297 is used to reset Service Code L this Manual" on page 6 for more information and examples re	s disabled until er Jse. See "Termir egarding special U	abled again. nology Used in Jsers 297-300.	2	
<b>10. Erase All Users Except the Master Code</b> This Function enabled through keypad only)	<b>e</b> (User 1)			*)
Erases all User Codes except the Master Code (User 1).			Μ	

### **Programming Functions (cont'd) CLEAR FUNCTIONS** 12. Clear All Schedules and Timeout Functions $\mathbb{C}$ Function 12 clears all programmed Schedules and all Timeout Functions. (To clear All Timeout Functions only, see 3 Function 13 below). Function 12 will clear all of the following: All Schedule Functions 72 through 93, Timeout Functions 5, 25 through 34 and Function 47. Note: Function 12 also resets Passage Mode and any disabled Groups. After using Function 12, your Scheduled/Timeout features must be manually re-programmed. NOTE: Up to 4 Timeout Functions may be pending at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. This Function only disables the timeout; the event associated with the timeout will remain. 13. Clear All Timeout Functions (This Function enabled through keypad only) Function 13 clears all Timeout Functions. (To clear All Schedules and Timeout Functions, see Function 12 above). 3 Function 13 will clear all of the following: All Timeout Functions 5, 25-34 and Function 47. After using Function 12, your Scheduled/Timeout features must be manually re-programmed. NOTE: Up to 4 Timeout Functions may be pending at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. This Function only disables the timeout; the event associated with the timeout will remain. Important: It is the responsibility of the lock programmer to verify the proper lock/unlock conditions and Group conditions after programming the lock with Function 12 and 13. GROUPS Group Enable/Disable Enter the functions below to Enable/Disable Groups. Functions 14 - 23 will each override 2 existing scheduled events. Therefore, Functions 14 - 23 are temporary, take effect immediately, and are always overridden by future scheduled events that already exist within the lock programming. 14. Disable Group 1 15. Disable Group 2 **I I I I** PRIORITY ORDER 1. Disabled Users 16. Disable Group 3 2. Enabled Groups 3. Disabled Groups 17. Disable Group 4 4. Enabled Users The Priority Order details which Function will **18.** Disable All Groups take effect before ("have priority over") others. For example, as per the list above, Enabled Users have the lowest priority, and other Func-**19.** Enable Group 1 tions can affect the status of these Users. Disabling a Group (Functions 14-18) will take pri-**20.** Enable Group 2 2ority over the enabled Users in that Group, disabling them. Enabling Groups (Functions 19-23) will take priority over those tasks lower **21.** Enable Group 3 1in the list, and finally disabling a User (Function 3) takes priority over all other tasks listed. **22.** Enable Group 4 1 2 2 👀 **23.** Enable All Groups 123 💌

### 24. Reserved

6	D	0	D	C

NOTE: Clear All Timeout Functions by entering Function 13.

2

### Group Enable/Disable with Timeout (Enter Timeout, XXX Hours)

(Functions 25-34 are enabled through the keypad only)

- Hours must be between 1-999. Enter the functions below to Enable/Disable Groups for the amount of time entered in hours.
   NOTE: Only 4 Timeout Functions are allowed at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. Functions 25 34 will each override existing scheduled events. Therefore, Functions 25 34 are temporary, take effect immediately, and are always overridden by future scheduled events that already exist within the lock programming. NOTE: Functions 25-34 are enabled through the keypad only.
- Example: All 15 members of the Accounting Department are members of Group 4, and a schedule programmed in the department's door lock reflects their normal working hours of 9 AM through 5 PM, Monday through Friday. But one day a special event occurs, and all Accounting Department members are requested to stay an extra hour until 6 PM. Therefore, at 5 PM, the manager (wishing to temporarily enable Group 4 users for an extra hour) enters Program Mode and presses: 1333 100011 \*\*. Likewise, if the manager wished to send his department home early at 3 PM, the manager could enter 128 10002 \*\*.

<b>25.</b> Timed Disable Group 1		[] [
<b>26.</b> Timed Disable Group 2		[] (XXX Hours)
<b>27.</b> Timed Disable Group 3		[] (XXX Hours)
<b>28.</b> Timed Disable Group 4		[] [** (XXX Hours)
29. Timed Disable All Groups	<b>(1) (2) (9)</b>	[] (XXX Hours)
<b>30.</b> Timed Enable Group 1		[] (XXX Hours)
<b>31.</b> Timed Enable Group 2	<b>(1) (3) (1)</b>	[] (XXX Hours)
<b>32.</b> Timed Enable Group 3		(XXX Hours)
<b>33.</b> Timed Enable Group 4	• 3	[] (XXX Hours)
34. Timed Enable All Groups		(XXX Hours)
35. Group Add/Delete Association	<b>(</b> ] <b>(</b> ] <b>(</b> )	(User Number) (Groups)

As per the chart on page 8, the lock's default programming from the factory associates certain User Numbers with certain Groups. To override these default Group associations, Function 35 manually associates (or disassociates) a selected User with a selected Group. During programming, Groups not selected are then disassociated from the User. Function 35 is helpful when the number of Users you wish to add to a Group outgrows the number of User Numbers defaulted to a Group (50); or if an existing User joins a department and you wish to simply add them to a Group. • User Number must be between 2 and 2000; Groups 1-4 (to associate with User) may be selected. Add Example: To associate User 67 with Groups 1, 2 and 4; Enter: **1** 3 5 **1** 6 7 **1** 2 4 **\*** Delete Example: To remove all Group associations for User 67; Enter: **1** 3 5 **1** 6 7 **\*** NOTE: If a User is associated with more than one Group, **all** associated Groups would have to be disabled before the User is disabled.

### 36 - 37. Reserved

Programm	ning Functions (cont'd)
CLOCK SETTINGS	
38. Set Date	(Date)
<ul> <li>Use Month Day Year format - MMDDYY - Single digit</li> <li>Enter ONLY the last two digits of the year.</li> </ul>	months and days are entered with a preceding zero. 3
For Example: March 8, 2009; Enter:           3         8         0         3         0         8	
39. Set Time	(Time)
<ul> <li>Time must be 4 digits</li> <li>Use 24 Hour Format (add 12 hours to program PM tin</li> </ul>	me) 3
For Example: To set time to 8:25PM;	
For Example: To set time to 8:25AM;	
Enter: 1 3 9 1 0 8 2 C	5 💌
40. Set Weekday	(Day)
• For day enter: <u>1 for Sunday</u> , <u>2 for Monday</u> , <u>3 for Tue</u>	asday, 4 for Wednesday, 5 for Thursday, 6 for Eriday and 7 for Saturday
	esuay, 4 for Weunesuay, 5 for mulsuay, 6 for mulay and 7 for Saturday.
For Example: To set day to Sunday;	esuay, <u>4 for Weanesuay, 5 for marsuay, 6 for maay</u> and <u>7 for Saturday</u> .
For Example: To set day to Sunday; Enter: 1 4 0 1 1 1	esuay, <u>4 for Weanesuay, 5 for marsuay, 6 for muay</u> and <u>7 for Saturday</u> .
For Example: To set day to Sunday; Enter: I 4 0 I 1 * 41. Daylight Saving Time Start Date	(DST Starting Month, Month, Week, Day)
For Example: To set day to Sunday;         Enter:       4       0       *         41. Daylight Saving Time Start Date         The manner in which Daylight Saving Time (DST) is c         accommodate these regional differences. Function 41         allows the entry of a DST End Date (month, day and w         4       1       0       0       * to disable E	Essay, + for Weanesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . (DST Starting Month, Month, Week, Day) Observed varies with location, therefore the DST adjustment is fully flexible to allows the entry of a <i>DST Start Date</i> (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter  DST. All locks leave the factory with DST enabled and pre-programmed to the
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is c accommodate these regional differences. Function 41 allows the entry of a DST End Date (month, day and w 4 1 L 0 0 0 * to disable D following start and end dates (for the USA beginning 20 • Default DST Start Date: March Week 2 Sunday	Essay, + for Weanesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . (DST Starting Month, Month, Week, Day) Observed varies with location, therefore the DST adjustment is fully flexible to allows the entry of a <i>DST Start Date</i> (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter  DST. All locks leave the factory with DST enabled and pre-programmed to the 007): ("Second Sunday in March")
For Example: To set day to Sunday;         Enter:       4       0       *         41. Daylight Saving Time Start Date         The manner in which Daylight Saving Time (DST) is concommodate these regional differences. Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences. Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date (month, day and we concommodate these regional differences). Function 41 allows the entry of a DST End Date: November, Week 1, Sunday	(DST Starting Month, Week, Day) Observed varies with location, therefore the DST adjustment is fully flexible to allows the entry of a <i>DST Start Date</i> (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter <b>DST</b> . All locks leave the factory with DST enabled and pre-programmed to the 007): ("Second Sunday in March")
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is c accommodate these regional differences. Function 41 allows the entry of a <i>DST End Date</i> (month, day and w 4 1 L 0 0 0 * to disable D following start and end dates (for the USA beginning 20 • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press	Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 6 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 0 for Hidray and <u>Fibr Saturday</u> . Lesday, 4 for Wednesday, 5 for Hidrsday, 0 for Hidray and Fibr Saturday. Lesday, 4 for Wednesday, 5 for Hidray and Fibr Saturday. Lesday, 4 for Wednesday, 5 for Hidrsday, 1 for Saturday. Lesday, 4 for Wednesday, 5 for Hidrsday, 1 for Saturday. Lesday, 4 for Wednesday, 5 for Hidrsday, 1 for Saturday. Lesday, 4 for Wednesday, 5 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 5 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 5 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 4 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 1 for Hidray, 1 for Hidray, 1 for Saturday. Lesday, 1 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 1 for Wednesday, 1 for Hidray, 1 for Saturday. Lesday, 1 for Saturday. Lesday, 1 for Saturday. Lesday, 1 for Hidray, 1 for Saturday. Lesday, 1 for Saturday.
For Example: To set day to Sunday; Enter:  4 0 4 0 4 5 4 4 0 5 4 4 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	$[\underline{M} \underline{M} \underline{W} \underline{D}] [\underline{*}]$ (DST Starting Month, Month, Week, Day) (DST Starting Month, Month, Week, Day) (DST Start Date (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter DST. All locks leave the factory with DST enabled and pre-programmed to the DO7): ("Second Sunday in March") Maday ("First Sunday in November") (SE (I)
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is c accommodate these regional differences. Function 41 allows the entry of a <i>DST End Date</i> (month, day and w 4 1 L 0 0 0 * to disable D following start and end dates (for the USA beginning 20 • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press • "M M" = Two digits of the month (01 throug preceding zero). • "W" = Single digit for "week of the month" (va third week, "4" is the fourth week and "5" is the lass • "D" = Day of the week (valid entries are 1-7: 1	Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Order Huay</u> and <u>Fior Saturday</u> . Lesday, <u>Fior Wednesday</u> , <u>Sich Hursday</u> , <u>Sich Hur</u>
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is of accommodate these regional differences. Function 41 allows the entry of a <i>DST End Date</i> (month, day and w 4 1 L 0 0 * to disable D following start and end dates (for the USA beginning 20 • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press • "M M" = Two digits of the month (01 throug preceding zero). • "W" = Single digit for "week of the month" (va third week, "4" is the fourth week and "5" is the lass • "D" = Day of the week (valid entries are 1-7: 1 for Friday and 7 for Saturday). Example: To set the default start date of "second Sund	Lestary, <u>Fior Wednesday</u> , <u>Stor Hidrsday</u> , <u>Order Hidray</u> and <u>Fior Saturday</u> . Lestary, <u>Fior Wednesday</u> , <u>Stor Hidrsday</u> , <u>Order Hidray</u> and <u>Fior Saturday</u> . Lestary, <u>Fior Wednesday</u> , <u>Stor Hidrsday</u> , <u>Order Hidray</u> and <u>Fior Saturday</u> . Lestary, <u>Fior Wednesday</u> , <u>Stor Hidrsday</u> , <u>Order Hidray</u> and <u>Fior Saturday</u> . (DST Starting Month, Month, Week, Day) Dobserved varies with location, therefore the DST adjustment is fully flexible to allows the entry of a <i>DST Start Date</i> (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter L DST. All locks leave the factory with DST enabled and pre-programmed to the D07): ("Second Sunday in March") mday ("First Sunday in November") S: L 4 1 L [MMWD] * where "M M W D" represents: In 12 = January through December. Single digit months are entered with a alid entries are 1-5 where "1" is the first week, "2" is the second week, "3" is the st week of the month. for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is consistent of the entry of a DST End Date (month, day and way allows the entry of a DST End Date (month, day and way allowing start and end dates (for the USA beginning 20) • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press • "M M" = Two digits of the month (01 through preceding zero). • "W" = Single digit for "week of the month" (varthird week, "4" is the fourth week and "5" is the lass • "D" = Day of the week (valid entries are 1-7: 1 for Friday and 7 for Saturday). Example: To set the default start date of "second Sunday and the second Su	<b>Eaday</b> , <b>FIO</b> Wethesday, <b>FIO</b> Hittisday, <b>O</b> IO Finday and <b>FIO</b> Saturday. (DST Starting Month, Month, Week, Day) Deserved varies with location, therefore the DST adjustment is fully flexible to allows the entry of a <i>DST Start Date</i> (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. <b>Enter C</b> <b>DST</b> . All locks leave the factory with DST enabled and pre-programmed to the DOT): ("Second Sunday in March") hday ("First Sunday in November") s: <b>C C C C C C C C C C</b>
For Example: To set day to Sunday; Enter: 4 0 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is considered a commodate these regional differences. Function 41 allows the entry of a DST End Date (month, day and with allows the entry of a DST End Date (month, day and with allowing start and end dates (for the USA beginning 20) • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press • "M M" = Two digits of the month (01 through preceding zero). • "W" = Single digit for "week of the month" (week, "4" is the fourth week and "5" is the lass • "D" = Day of the week (valid entries are 1-7: 1 for Friday and 7 for Saturday). Example: To set the default start date of "second Sund 4 1 1 1 1 0 3 2 1 1 1 0 00 42. Daylight Saving Time End Date	<pre>study, + tor wednesday, 5 tor mulsuay, onor mulsuay, one mulsuay, on</pre>
For Example: To set day to Sunday; Enter: L 4 0 L * 41. Daylight Saving Time Start Date The manner in which Daylight Saving Time (DST) is c accommodate these regional differences. Function 41 allows the entry of a <i>DST End Date</i> (month, day and v 4 1 L 0 0 0 * to disable D following start and end dates (for the USA beginning 20 • Default DST Start Date: March, Week 2, Sunday • Default DST End Date: November, Week 1, Sun To program the DST start date using the keypad, press • "M M" = Two digits of the month (01 throug preceding zero). • "W" = Single digit for "week of the month" (va third week, "4" is the fourth week and "5" is the lass • "D" = Day of the week (valid entries are 1-7: 1 for Friday and 7 for Saturday). Example: To set the default start date of "second Sund L 4 1 L [ 0 3 2 1 ] * (0	<pre>study, + Ior Wednesday, 5 tor Thildsday, 6 tor Thildsday, and Fibrissdarday. (DST Starting Month, Month, Week, Day) bbserved varies with location, therefore the DST adjustment is fully flexible to allows the entry of a DST Start Date (month, day and week), and Function 42 week). DST begins and ends at 2AM on the programmed date. Enter DST. All locks leave the factory with DST enabled and pre-programmed to the DOT: ("Second Sunday in March") hday ("First Sunday in November") S: 4 1 1 [ M M W D ] * where "M M W D" represents: th 12 = January through December. Single digit months are entered with a alid entries are 1-5 where "1" is the first week, "2" is the second week, "3" is the st week of the month. for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 day in March", press: B = "March", 2 = "2<sup>nd</sup> week", 1 = Sunday). Enter 1 4 2 1 0 0 1 * to disable DST. 4</pre>

### CLOCK ADJUST

### **Clock Adjust**



	Programming Functions (cont'd)
PERMA	NENT PASSAGE MODE
Passage	Mode Enable/Disable - Schedule will <u>not</u> Override
<ul> <li>Function</li> <li>Programmer schedule tions 48 a enabled</li> </ul>	48 allows passage through the door without the need for a User Code. Re-Lock using Function 49.       2         med Schedules will not override the state of the lock using functions 48 and 49. If it is required that programmed s override Passage Mode, Enable/Disable Passage Mode using Functions 45/46. Use Function 50 to "undo" Funcand/or 49, and therefore return the lock to all pre-existing scheduled functions. Note: Functions 48-50 can only be using the keypad. Warning: Function 49 will inhibit all scheduled Passage Mode events.       2
	<b>48. Enable Permanent Passage Mode</b> (This Function enabled through keypad only)
	<b>49. Disable Permanent Passage Mode</b> (This Function enabled through keypad only)
	50. Return Lock to Normal Passage IN IS IN IN IN INCLUSION Mode Schedule
	(This Function enabled through keypad only) (Locks will lock or unlock depending on the current schedule). Use Function 50 to "undo" Functions 48 and/ or 49, and therefore return the lock to all pre-existing scheduled functions.
	<b>NOTE:</b> See Scheduled functions 72 and 73 for Scheduled Passage Mode.
<ul> <li>Mode 1 ( fault.</li> <li>Mode 2:</li> <li>Mode 3: Groups 2</li> <li>With Mode 3:</li> </ul>	Normal): Passage Mode must be enabled/disabled using Function 45 and 46. Mode 1 (Normal) is the factory de-       4         Group 2 toggles Passage Mode.       5         Group 2 enables, Group 3 disables Passage Mode.       5         Disable Passage Mode has priority if User is a member of both 2 and 3.
Groups 2 With May	and 3.
sage Mod enter the and Grou User enter sage Mod	<b>de 2</b> , each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas- de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they ir User Code again, Passage Mode will be enabled. With <b>Mode 3</b> , Group 2 members will always enable Passage Mode, ip 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 ars their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas- de is already enabled, and a Group 3 User enters their User Code. Passage Mode will become disabled
sage Mor enter the and Grou User ente sage Mor	<b>de 2</b> , each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas- de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they ir User Code again, Passage Mode will be enabled. With <b>Mode 3</b> , Group 2 members will always enable Passage Mode, up 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 ers their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas- de is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled.
sage Mor enter the and Grou User ente sage Mor	de 2, each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas- de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they ir User Code again, Passage Mode will be enabled. With <b>Mode 3</b> , Group 2 members will always enable Passage Mode, up 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 ers their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas- de is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled.
Pass Tin	de 2, each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas- de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they ir User Code again, Passage Mode will be enabled. With <b>Mode 3</b> , Group 2 members will always enable Passage Mode, up 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 ers their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas- de is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled.
Pass Tin The Pass Tir entered. Wh functions beliefaulted to	de 2, each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas-         de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they         ir User Code again, Passage Mode will be enabled. With Mode 3, Group 2 members will always enable Passage Mode,         ip 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2         ers their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas-         de is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled.         PASS TIME         ne         ne is the length of time the lock stays unlocked after a valid User Code is       4         en the Pass Time expires, the lock will re-lock automatically. Use the       4         ow to change the Pass Time to 3, 10 or 15 seconds. The Pass Time is       3         a seconds.       3
Pass Tin The Pass Tin entered. Wh functions beli defaulted to	de 2, each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Pas-   de is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they   ir User Code again, Passage Mode will be enabled. With Mode 3, Group 2 members will always enable Passage Mode,   p 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2   ers their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pas-   de is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled. <b>PASS TIME</b> ne   ne is the length of time the lock stays unlocked after a valid User Code is   en the Pass Time expires, the lock will re-lock automatically. Use the   ow to change the Pass Time to 3, 10 or 15 seconds. The Pass Time is   3 seconds. <b>52. Set Pass Time to 3 Sec.</b> Image: State Pass Time to 3 Sec.
Pass Tin The Pass Tir entered. Wh functions bel defaulted to	de 2, each time any member of Group 2 enters their User Code, they will togle Passage Mode. For example, if Pasde is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they in User Code again, Passage Mode will be enabled. With Mode 3, Group 2 members will always enable Passage Mode, up 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 ars their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Pasde is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled. PASS TIME ne ne is the length of time the lock stays unlocked after a valid User Code is en the Pass Time expires, the lock will re-lock automatically. Use the ow to change the Pass Time to 3, 10 or 15 seconds. The Pass Time is 3 seconds. 52. Set Pass Time to 3 Sec. 53. Set Pass Time to 10 Sec. 15 (2) *

### PRINTER

Hold the printer perpendicular to the Lock's infrared LED as shown in Figure 1 and Figure 2. If the printer has been idle for some time, press the paper feed button to wake up the printer.





SYSTEM FEATURES

### 67. Add System Features

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Έv	ent	Nu	mb	oer)

•	Relay	Features	(12-24.	Reserved
			<b>`</b>	

Use Function 67 to program **one or more** lock events and the Relay will energize when the programmed event(s) listed below occurs. For example, program **(1) (6) (7) (1) (3) (\*)** and when an attempted entry fails (such as a User who enters an incorrect or un-programmed User Code), the Relay will energize for 2 seconds. Note: For more information about the *Remote Input*, see page 11 (Wiring, Remote Input) and page 25 (Function 65).

10 0.1		/•	
1.	Remote Input switch closed and Function 65 Remote Input enabled. Because the Remote Input is enabled by factory default, the Relay will energize when the Remote Input switch is closed.	9.	<b>Lock Out.</b> Relay energizes for 2 seconds when a Lock Out occurs (i.e. number of attempts is exceeded, see Function 60).
2.	<b>Remote Input switch closed and Function 64</b> <i>Remote Input</i> <b>disabled.</b> If the Remote Input is disabled with Function 64, the Relay will NOT energize when the Remote Input Switch is closed.	10. /	<b>Ambush.</b> Relay energizes for 2 seconds when Ambush is tripped. See Function 66, page 25.
3.	<b>Failed attempted entry.</b> Relay energizes for 2 seconds when an attempted User Code entry via the keypad fails.	11.	First Key Press. Relay energizes for 2 seconds at the first key press of any sequence.
4.	<b>Disabled User or Group.</b> Relay energizes for 2 seconds when a disabled User or disabled Group member enters a User Code.	31.	Follow Access Granted-No Time Limit.** When a valid User Code is entered into the keypad and the lock unlocks, the Relay energizes for
5.	<b>Follow Access Granted.</b> When a valid User Code is entered into the keypad and the lock unlocks, the Relay energizes for 2 seconds. Compare with Event 31.	-	the same amount of time as the programmed Pass Time. (The Pass Time is the length of time the lock stays unlocked after a valid User Code is entered. See functions 52-54). Use this feature for remote monitoring or other activation as this feature works independ
6.	<b>Group 1 User Code.</b> Relay energizes for 2 seconds when a scheduled Group 1 User Code is entered. See Function 90, page 29.		ently of all other relay options. Programming this feature will supersede all other programmed relay features. Subsequent relay feature pro-
7.	<b>Scheduled Lock Event.</b> Relay energizes for 2 seconds when lock is locked by a Schedule.	9	gramming will not take effect while this feature is active. Before pro- gramming any other relay features, press 💶 🐻 🔳 🚺
8	Scheduled Unlock Event. Relay energizes for 2 seconds when	1	💽 💽 📧 to delete this feature.

 Scheduled Unlock Event. Relay energizes for 2 seconds when lock is unlocked by a schedule

### Remote Input Functions

- 29. Toggle Passage Mode. Remote Input toggles Passage Mode.
- Forced Unlock Follows Remote Input.\*\* When Remote Input switch is closed, regardless of the current state of the lock, the lock unlocks for the duration of the Remote Input switch closure.
- Remote Input Disables Unit.\*\* Regardless of the current state, that state will remain unchanged (and keypad will be disabled) for the duration of Remote Input switch closure.
- 34. Forced Lock Follows Remote Input \*\* When Remote Input switch is closed, regardless of the current state of the lock, the lock will lock for the duration of the Remote Input switch closure.

### • PC Communication Functions

33. Remote Input Puts Unit in PC Communication Mode

### System Options

24.	One Time Access for Group 3 Users***
25.	Disable Sounder
26.	5 sec. Delayed Entry *
27.	15 sec. Delayed Entry *
28.	45 sec. Delayed Entry *

\* Features 26, 27 & 28 will delay User Codes 12 and higher only (except 297, 298 and 299).

\*\*\* Feature 24, "One Time Access for Group 3 Users", allows the creation of multiple 'one time only' User Codes. When activated, an entry by a Group 3 User allows entry only once, then user becomes disabled. Note: When the User Code is entered for the first time and access is granted, the Event Log will read "Entry" followed by "User Disabled". If the User Code is entered a second time, access will be denied, and the Event Log will read "User Denied Access". To Enable the Feature: Enter Program Mode and enter the key sequence [1] 6 [7] [1] [2] [4] [\*]. To assign the selected User

Codes to Group 3: For example, to assign User Number 15 to Group 3, press:

### **Ambush Function**

- 1. Connect relay to a device able to properly monitor dry contacts for an Ambush condition.
- 2. Program the Relay for Ambush Tripped using Program Function 67(10) above.
- 3. Set the Ambush Code using Program Function 66.
- 4. When the Ambush Code is entered followed by a valid User Code, the relay will close for 2 seconds.
- Notes: The Ambush Code defaults to 99. An error will sound if you try to program a new User Code starting with the Ambush Code.

68. Delete All Relay Features added by Function 67.

Enter 16 8 10 0 0 10 10 Enter all Relay Features added by Function 67.

4

Programming Functions (cont'd)									
	ENTER KEY								
Enter Key	Enter Key								
When this function is enabled, the User must press 💽 after any valid User Code entry. Therefore,									
Examples:	Examples:								
	Image: Contract of the second								
	3 4 5 6 * (Hold *) for Maste	same lock. r User Code to enter F	Program Mode.						
	60. Enable 🖂 as Enter Kov	mm							
	70 Disable 💌 as Enter Key								
	70. Disable as Litter Key								
		NOTE: Clear All Sc	hedule and Time	out Functions by entering Function 12.					
Schedule	schebules	To set the	time, see Functio	on 39.					
Use the function	ons below to enable Passage Mode and enable/dis	able Groups at the tim	ne programmed.	3					
<ul> <li>For day Friday 7</li> </ul>	enter: <u>1 for Sunday</u> , <u>2 for Monday</u> , <u>3 for Tuesda</u> for Saturday 8 for Monday to Friday 9 for Saturda	y, <u>4 for Wednesday</u> , v and Sunday, and 0 t	5 for Thursday,	<u>6 for</u> ek					
<u></u>	<u></u>	<u>, ana banaa</u> , ana <u>b</u>		<u></u>					
Passage Mode	72. Schedule Enable Passage Mode ("Unlock")		[_] (Day)	(Time)					
	73. Schedule Disable Passage Mode ("Lock")		[_] (Day)	(Time)					
Groups	74. Schedule Enable Group 1		[_] (Day)	(Time)					
	75. Schedule Enable Group 2		[_] (Day)	(Time)					
	76. Schedule Enable Group 3		[_] (Day)	(Time)					
	77. Schedule Enable Group 4		[_] (Day)	(Time)					
	78. Schedule Enable All Groups		[_] (Day)	[] (Time)					
	79. Schedule Disable Group 1	179	[_] (Day)	[] (Time)					
	80. Schedule Disable Group 2		[_] (Day)	[] (Time)					
	81. Schedule Disable Group 3		[_] (Day)	[] (Time)					
	82. Schedule Disable Group 4	<b>() () ()</b>	[_] (Day)	[] [** (Time)					
	83. Schedule Disable All Groups	• 8 3	[] (Day)	[] (Time)					

3

### QUICK SCHEDULES

### **Quick Schedules - Enable Group**

For your convenience, your lock comes pre-programmed with Quick Schedules, which, when programmed, enable Groups for popular blocks of time. Group members will be enabled during the blocks of time defined below, but will still need to enter their User Codes into the keypad to unlock the lock.

Group number must be 1-4; enter the number of the Group that is to be enabled for the time specified by the Quick • Schedules below.

**Note:** These Quick Schedules can **only** be programmed through the keypad (not through DL-Windows), and existing Quick Schedules **will be over-written** by schedules downloaded from DL-Windows. Therefore, after downloading any DL-Windows schedules, be sure to re-program your Quick Schedules into your Lock Program.

<b>8</b> 7 (	<b>34. Business Quick Schedule</b> 7AM-5PM, Monday - Friday This Function enabled through keypad only)	1 8 4	[_] [*** (Group)		
<b>8</b> 7 (	<b>35. Day Quick Schedule</b> AM-5PM, All days This Function enabled through keypad only)	1 8 5	[_] (Group)		
<b>8</b> 3	<b>36. Evening Quick Schedule</b> 3PM-1AM, All days This Function enabled through keypad only)	86	(Group)		
8	<b>37. Night Quick Schedule</b> 11PM-9AM, All days This Function enabled through keypad only)	<b>R 8 7</b>	(Group)		
SCHEDULES C	Passage Mode (Group 1 Activat	ted)	Code is entered within this	window	2
Passage Mode wil pad. For additiona	I be activated, allowing anyone to enter. <b>Not</b> al information, see Group 1 Activated Features	This feature can on s on page 29.	ly be programmed using t	he lock key-	3
<ul> <li>For the day enter Saturday, 8 for M</li> </ul>	Monday to Friday, 9 for Saturday and Sunday,	and <u>0 for all days of v</u>	<u>veek</u> .	<u>7 101</u>	
<ul> <li>Enter time of da</li> <li>Note: Do not use</li> </ul>	y in 24 hour format (for example, for 2:15 PM this feature in "Residency" mode.	, enter 14:15).			
	29. Decesso Mada				
( (	Open Time Window) This Function enabled through keypad only)		(Day)	(Time)	
8	<b>39. Passage Mode</b> Close Time Window)	<b>()</b>	(Day)	2 [] [***	

(Close Time Window) (This Function enabled through keypad only)



Programming	Functions	(cont'd)
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3

Scheduled Group 4 Enable (Group 1 Activated)

Functions 92 and 93 allow you to set up a window of time where if any **Group 1** User Code is entered within this window, Group 4 members will be enabled. (Group 4 members will still need to enter their User Codes to enter). For additional information, see Group 1 Activated Features on page 29.

- For day enter: <u>1 for Sunday</u>, <u>2 for Monday</u>, <u>3 for Tuesday</u>, <u>4 for Wednesday</u>, <u>5 for Thursday</u>, <u>6 for Friday</u>, <u>7 for Saturday</u>, <u>8 for Monday to Friday</u>, <u>9 for Saturday and Sunday</u>, and <u>0 for all days of week</u>.
- Enter time of day in 24 hour format (for example, for 2:15 PM, enter 14:15).

	<b>92. Enable Group 4</b> (Open Time Window) ( <i>This Function enabled through keypad only</i> )	<b>.</b> 9 2	[_] (Day)	(Time)
	<b>93. Enable Group 4</b> (Close Time Window) ( <i>This Function enabled through keypad only</i> )	193	[_] (Day)	(Time)
	94 - 98. Reserved			
CLEAR A				
	<b>99. Clear All Lock Programming</b> (This Function enabled through keypad only)	99		
Clears all progran are maintained.	nming, and returns lock to factory default settings.	. Audit Trail contents	М	
				_

# **Groups and Scheduled Group 1 Examples**

The following examples detail the more advanced features of the DL series locks. Although all features and device functions can be programmed using the lock keypad, when programming becomes more complex you may find it easier to use DL-Windows software to program your Alarm Lock security lock. For more information, contact your Alarm Lock security professional.

### Assign a User to Two Groups

Create a User 101 (all Users 101-150 are members of Group 2 by default) and include User 101 in Group 3 (as well as the default Group 2).

- 1. Enter Program Mode (if not in already).
- 2. Using Function 2, create User 101 with a User Code of "789": Press 1 2 1 1 0 1 7 8 9 \*
- 3. Using Function 35, make User 101 a member of Group 2 and 3:

   Press (1) (3) (5) (1) (0) (1) (1) (2) (3) (\*)
- 4. Exit Program Mode.

**Note:** See step 3 above--although User 101 is by default a member of Group 2, you must include Group 2 when using Function 35 or the Group 2 association will be removed.

The example to add Users to Group 2 and Group 3 has been selected due to the fact that *Group 1 Activated Functions* require that a member of Group 1 enter their User Code to activate the Function, and it may become necessary to assign Users to Groups.

### Group 1 Activated Features: Functions 88/89, 90/91 and 92/93

- Function 88 and 89 allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, *Passage Mode* will be activated (the device physically unlocks, allowing passage for all). If a Group 1 User does not enter their User Code during the specified window, Functions 88/89 remain inactive.
- Function 90 and 91 allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, an internal *Relay* will be activated for 2 seconds. This Relay can be used with a burglar alarm control panel that has a key switch disarm option. See **To Disarm a Burglary Control Panel** on page 28. If a Group 1 User does not enter their User Code during the specified window, Functions 90/91 remain inactive.
- Function 92 and 93 allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, the User Codes in Group 4 will be enabled. If a Group 1 User does not enter their User Code during the specified window, Functions 92/93 remain inactive. Companies typically use this feature to allow Group 1 Managers the ability to enable all Group 4 staff members during a certain window of time.

The following examples illustrate how Functions 88-93 can be programmed into your DL Series lock via the keypad:

**Functions 88/89**: Use Function 88 to set an *Open Time Window* (during which the Group 1 User must enter their User Code), and then use Function 89 to set the time to close the Window. Re-lock the door at night manually (Function 46).

- 1. Enter Program Mode (if not in already).
- 2. Using Function 2, create User 4 with a User Code of "456789": Press 1 2 1 4 4 5 6 7 8 9 \*
- 3. Because User 4 does not have a default Group association, make User 4 a member of Group 1 using Function 35: Press 1 3 5 1 4 1 1 .
- 4. Use Function 88 and Function 89 (see page 26) to designate Passage Mode as being between the hours of 8:30 A.M. and 10 A.M. for all days of the week:

Function 88 (Open Window Time) = 8:30 A.M.: Press 💷 🛞 🛞 💷 💿 💷 💿 🛞 🕄 🔘 💌

Function 89 (Close Window Time) = 10:00 A.M.: Press 💷 📧 💿 💷 💽 🐨

5. Exit Program Mode (hold down any key for 3 seconds).

The lock will now be put in Passage Mode (device physically unlocked) if User 4 (or any Group 1 member) enters their User Code between 8:30 A.M. and 10 A.M. If a Group 1 User does not enter their User Code during the specified window, Functions 88/89 remain inactive

- The device will have to be manually locked each night by entering the following command using Function 46:
- The device can also be programmed to automatically lock (disable Passage Mode) each night at 5 P.M. by using Function 73:
- Remember to exit Function Mode when programming is complete.

# Groups and Scheduled Group 1 Examples (cont'd.)

**Functions 90/91**: Use Function 90 and 91 (see page 27) to create a window of time where if any Group 1 User Code is entered within the programmed window, a *Relay* will be activated for 2 seconds. The Relay can be configured to disarm a burglary control panel. See page 27.

- 1. Enter Program Mode (if not in already).
- 2. Connect Relay to a burglar control panel with switch input for disarming.
- 3. Using Function 2, create User 4 with a User Code of "456789": Press 1 2 1 4 5 6 7 8 9
- Use Function 90 to set the time to open the window (8:30 A.M. all days of the week) allowing any Group 1 member to close the Relay for 2 seconds. Note: Only 1 Relay closure will occur even if another member of Group 1 enters their User Code. Use Function 91 to set the time to close the window (10 A.M. for all days of the week):

Function 90 (Open Window Time) = 8:30 A.M.: Press 😰 🧐 💽 💶 💽 😰 🕄 💽 😭

Function 91 (Close Window Time) = 10:00 A.M.: Press 💷 🗐 🗊 🗊 🗊 🗊 🗊 🗊 🐨

6. Exit Program Mode (hold down any key for 3 seconds).

- The Relay will close, one time only, when a member of Group 1 enters their User Code between 8:30AM and 10:00AM. If a Group 1 User does not enter their User Code during the specified window, Functions 90/91 remain inactive
  - The alarm panel will have to be armed at night by the User or by an automatic schedule function of the alarm panel.

**Functions 92/93**: Use Function 92 and 93 (see page 28) to create a window of time where if any Group 1 User Code is entered within the programmed window, *Group 4 Users* will be enabled.

- 1. Enter Program Mode (if not in already).
- Using Function 2, create User 4 with a User Code of "456789":
   Press 1 2 1 4 4 5 6 7 8 9 \*
- 3. Because User 4 does not have a default Group association, make User 4 a member of Group 1 using Function 35: Press 1 3 5 1 4 1 1 .
- Using Function 17, disable Group 4. (Group 4 will need to be "disabled" before it can be "enabled" later).
   Press I T T.
- Use Function 92 to set the time to open the window (8:30 A.M. all days of the week) allowing any Group 1 member to enable Group 4. Use Function 93 to set the time to close the window (10:00 A.M. all days of the week).

Function 92 (Open Window Time) = 8:30 A.M.: Press 💷 ⑨ 😰 💷 💽 🕄 🔘 🕄 💽 💌

Function 93 (Close Window Time) = 10:00 A.M.: Press 💶 🧐 🕄 💶 💽 💶 🚺 💽 💽 💽

6. Exit Program Mode (hold down any key for 3 seconds).

The lock will now enable Group 4 User Codes if User 4 (or any Group 1 member) enters their User Code between 8:30 A.M. and 10 A.M. If no Group 1 member arrives to enter their User Code between 8:30 A.M. and 10 A.M., Group 4 User Codes will not be enabled and will remain disabled all day.

- The device will have to be manually locked each night by entering the following command using Function 82:
- The device can also be programmed to automatically disable Group 4 members each night at 5 P.M. by using Function 82:
- Test the device by creating User 222 (with User Code 466466) and adding User 222 to Group 4:

D	2		2	2	2	I	4	6	6	4	6	6	$(\ast)$
	3	5		2	2	2		4	$(\ast)$				

• Remember to exit Function Mode when programming is complete.

Programming	Record	Sheet
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Default Values are shown in parentheses.

Function Number(s)	Function Name	Programming	
43/44	Clock Adjust	+/- 0-55 (0) (0) Seconds	
52/53/54	Pass Time	(3 sec) 🗖 10 sec 🗖 15 sec 🗖	
60	Set Lockout Attempts	(6) 1-9 Attempts	
61	Set Lockout Time	(1) (8) 1-60 seconds	
64/65	Remote Input Momentary	(Enable) 🗖 Disable 🗖	
66	Ambush Code	(9) (9) Ambush Code	
67	Add Relay/System Features	Check all that apply	
		<ol> <li>Remote Input switch closed and Function 65 <i>Remote</i> Input enabled</li> </ol>	
		<ol> <li>Remote Input switch closed and Function 64 <i>Remote</i> Input disabled</li> </ol>	
		3. Failed attempted entry	
		4. Disabled User or Group	
		5. Follow Access Granted	
		6. Group 1 User Code	
		7. Scheduled Lock Event	
		8. Scheduled Unlock Event	
		9. Lock Out	
		10. Ambush	
		11. First Key Press	
		24. One Time Access for Group 3 Users	
		25. Disable Sounder	
		26. 5 sec. Delayed Entry	
		27. 15 sec. Delayed Entry	
		28. 45 sec. Delayed Entry	
		29. Toggle Passage Mode	
		30. Forced Unlock Follows Remote Input	
		31. Follow Access GrantedNo Time Limit	
		32. Remote Input Disables Unit	
		33. Remote Input Puts Unit in PC Communication Mode	
69/70	Enter Key	Enable D (Disable)	

Jser Number (1-2000)	User Code (3-6 digits)		Group Association				User Name			
					1 2 3 4					

### Note:

For a complete list of user codes, obtain a printout from either the remote printer (Program Function 56) or using the DL-WINDOWS Software.

Day(s)         Time         Function Number           Function Number         Up to 500 scheduled functions can be programmed (Up to only 150 using AL-DTM). For Day Enter:         Time         Function Name           I = Stunday, 2 = Morday, 3 = Stunday, 8 = Worday through Fiday, 9 = Stunday, 8 = Worday through Fiday, 9 = Stunday, 9 = Miday of the week Enter time of day in 24-hour format (00:00-23:59)         I         Function Name           I         I         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	S			Schedule Record She	et	
Function Number         Up to 500 scheduled functions can be programmed (Up to only 150 using AL-DTM). For Dye Enter: 1 = Sunday, 3 = Tusaday, 4 = Wolnesday 5 = Thursday, 6 = Thotay, 7 = Saturday and Saturda				Day(s)		
Function Number         Up to 500 scheduled functions can be programmed (Up to 1 = \$Unday, 2 = Monday, 3 = Tuesday, 4 = Wordersday 5 = Thursday, 6 = Finday, 7 = Saturday and Saturday, 8 = Monday through Finday, 9 = Saturday and Saturday and Saturday (De Vanday, 0 = Al days of the week Enter time of day in 24-hour format (00:00- 23:59)         Time         Function Nam           Image:						
Image: set of the	Up to 500 s only 150 us 1 = Sunday, 5 = Thursday Friday, 9 = S Enter time of	oer	Function Number	Jp to 500 scheduled functions can be programmed (Up to only 150 using AL-DTM). For Day Enter : I = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday 5 = Thursday, 6 = Friday, 7 = Saturday, 8 = Monday through Friday, 9 = Saturday and Sunday, 0 = All days of the week Enter time of day in 24-hour format (00:00- 23:59)	Time	Function Name
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# Glossary

ACCESS = Entry into a restricted area.

**AMBUSH** = A special Code entered at the keypad when the User is forced to unlock a device. The device unlocks but sends a silent alarm with no indication at the keypad. Can be used to trip a relay, to alert security, or trip a silent alarm on a Burglary Control Panel.

AUDIT TRAIL = A date/time stamped log of previous lock events.

**BURGLARY CONTROL PANEL** = Provides local alarm and remote communication to request security for burglary/break-in. A DL4500 relay output used for Ambush can provide a silent alarm and call-for-help.

### CLOCK

- **REAL TIME CLOCK** = An accurate built-in clock that allows date/ time stamping of events. The clock can be slowed or speeded up to fine tune long term accuracy to within three minutes per year.
- CLOCK SETTINGS = Printout includes date, time, weekday, and clock speed.
- CLOCK SPEED = The clock can be adjusted to allow faster/slower speeds and therefore increasing clock accuracy.

**CODE** = Numeric sequence of numbers (such as: 1234) entered at the keypad. If Star-Enter-Key is required, must be followed by a [\*] key.

- AMBUSH CODE = See Ambush.
- BASIC USER CODE = User Codes assigned to User Numbers 12+ (except Users 297-300). (Does not allow programming)
- **INSTALLER CODE** = User Codes assigned to User Numbers 2 and 3. (Allows all programming except Master functions).
- **INVALID CODE** = A User Code that has not been programmed in the lock.
- MANAGER CODE = User Codes assigned to User Numbers 4 through 6. (Allows most of the programming functions).
- **MASTER CODE** = User Code assigned to User Number 1. Default (factory) Master Code is 123456. The User with the Master Code has complete control of the lock.
- **PRINT ONLY USER CODE** = User Code assigned to Users 10 and 11. (Allows no programming except print functions).
- QUICK ENABLE USER 300 CODE = Refers to the User Code entered by User 297 which (when entered at the keypad) enables the User Code assigned to User 300 for one time only.
- QUICK PC ACCESS CODE = Permits upload/download to DL-Windows Software on IBM/compatible computer running Microsoft Windows 95, 98, or NT 4.0. Refers to the User Code for User 298.

- SERVICE CODE = User 300 User Code. Allows only one entry, then needs to be re-enabled by the User 297 User Code to regain access.
- **SUPERVISOR CODE** = User Codes assigned to Users 7, 8 and 9. Can only program day-to-day operation.
- USER CODE = Code used by Users. Code is 3 to 6 numeric digits long, allowing controlled entry.
- VALID CODE = An entered User Code that has been programmed in the device.
- **COM PORT** = A computer serial communications port used to communicate with the Lock and/or Data Transfer Module.
- **DATA TRANSFER MODULE** = A device that permits transfer of program/data between a computer and the lock.
- DATE = Month, Day and Year entered as MMDDYY.
- **DAY OF WEEK** = Sunday through Saturday (where 1 = Sunday and 7 = Saturday).
- **DEFAULT** = Default settings are the original settings that were set at the factory; in other words, it is the lock's original factory condition when the lock was first taken out of its box. The default settings are permanently encoded within the lock's fixed memory, and when the lock is first started, or when power is removed and reapplied (see Wiring and Power-Up, page 11), the original factory default settings are re-loaded and take effect.

DISABLE = Turn off.

DOOR NUMBER = Identification of each door lock with a specific number in order to ensure that the correct lock is associated with the correct lock program within DL-Windows or the AL-DTM.
 Note: "Door Number" is a term used with AL-DTM versions 1 and 2 and with DL-Windows versions 3.5.0 and earlier. Later versions of the AL-DTM and DL-Windows monitor door numbers automatically, therefore there is no need to manually change door numbers via the keypad. Therefore, Function 59 is no longer used with the later versions of the AL-DTM and DL-Windows. See page 23, Function 59 for more information.

DOWNLOAD = Send data to lock or AL-DTM.

ENABLE = Turn on.

EVENTS = Recorded lock activity.

**FUNCTION** (also called **Programming Functions**) = are the numbers used to program lock features (enabling/disabling Users, User Groups, Passage Mode, Schedules, etc.).

### GROUP

- **USER GROUP** = Defining a User to specific Groups, allows User entry when the Group is allowed entry.
- **GROUP 1 DISARMS BURGLAR CONTROL** = A Group 1 USER CODE entry can disarm an alarm panel during a predefined schedule. Should the Group 1 enter the lock outside of the scheduled time, the alarm will not disarm. The

# **Glossary (cont'd)**

alarm panel must be armed through other means (such as an Alarm Panel Keypad). The Burglary Alarm Panel must be programmed to disarm from an Armed State Only and the zone input must be programmed for input disarming.

- **GROUP 1 ENABLES GROUP 4 USERS** = A Group 1 USER CODE entry during a predefined schedule will allow access to Group 4 Users.
- GROUP 1 PUTS UNIT IN PASSAGE = A Group 1 USER CODE entry during a pre-defined schedule will unlock unit.

**INSTALLER =** See.... CODE, INSTALLER CODE.

**KEYPAD** = 10-numeric keys, and special key.

- KEYPAD LOCKOUT = Keypad is programmed to lockout Users, for a specified period of time, when a specified number of invalid User Codes are entered.
- **KEYPAD PROGRAMMING** = Ability to program the lock through the keypad.

**KEYPRESS =** Pressing a button on the Lock's Keypad.

- **LEVEL ABILITY** = Predefined User Types (such as Master, Installer, Manager, Supervisor, and Print Only User) have specific abilities to program and/or control the lock.
- **LOCKOUT ATTEMPTS** = A specified number of invalid User Code entries (1-9), that will disable the keypad for a predefined period of time (1-60 seconds).
- **LOCKOUT TIME** = A predefined time (1-60) seconds that the lock will stop accepting User Codes, after a specified number of invalid User Code entries (1-9).

LOG = See... AUDIT TRAIL.

MANAGER = See... CODE, MANAGER CODE.

MASTER = See... CODE, MASTER CODE.

- **PASSAGE** = Allow anyone to pass through the door without USER CODES (door is unlocked).
- **PRINTER** = A printout device such as an infrared printer or computer printer.
- PROGRAM MODE = A mode allowing program/data to be entered through the keypad. Only specific Users can program a lock manually, by entering their USER CODE, followed by the [ key. To exit program mode, hold any key until repeated beeps are heard.

- **PROGRAMMABLE RELAY FUNCTIONS** = The relay can be programmed for one or more functions.
- **RELAY** = Switched output allowing remote control of other devices. For an explanation of all relay features, see Function 67 on page 24.
- **REMOTE INPUT** = Entry into a restricted area, by pressing a button connected to the REMOTE INPUT WIRES (White and White) by someone on the other side of the door.
- **SCHEDULE** = A programmed operation (enable/disable, lock/unlock, etc.) on a specific day (Sunday through Saturday) and time.
- **SCHEDULES, QUICK** = Any one of four most common types of schedules can be programmed.

TIME = Hours and Minutes in the HHMM format.

- **TIME/DATE STAMP** = A recorded date and time that an event occurred.
- **TIMEOUT** = Immediate operation for a specified number of hours.
- **UPLOAD** = Receive data from the lock or AL-DTM.
- **USER** = A person who has been provided with a USER CODE for access through the door.
- **USER LOCKOUT, TOTAL =** All Users (except for Master Code) have been locked out.

# ALARM LOCK LIMITED WARRANTY

ALARM LOCK SYSTEMS, INC. (ALARM LOCK) warrants its products to be free from manufacturing defects in materials and workmanship for 24 months following the date of manufacture. ALARM LOCK will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

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Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL ALARM LOCK BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to ALARM LOCK. After repair or replacement, ALARM LOCK assumes the cost of returning products under warranty. ALARM LOCK shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. ALARM LOCK will not be responsible for any dismantling, reassembly or reinstallation charges.

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### ALARM LOCK RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. ALARM LOCK does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and allege police or fire department, in order to mitigate the possibilities of harm and/or damage.

ALARM LOCK is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to ALARM LOCK's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

# **IMPORTANT**--READ THIS FIRST

Before using the lock, perform the following steps for proper lock startup and to ensure the lock is completely reset before programming.

- 1. With the battery-pack disconnected, hold down 💷 for 10 seconds and release.
- Connect the battery-pack and listen for 3 beeps. Within 5 seconds of hearing the 3 beeps, press and hold until the lock starts to beep; then release the key. This clears the lock of all programmed data.
   Important: If you do not hear the first 3 beeps when you connect the battery-pack, you must start over at step 1.
- 3. Listen for beeps and LED flashes (while lock memory is being cleared) *followed by 10 seconds of silence*. The lock will then sound several more beeps to indicate a proper startup. The lock is now ready to program.

The above procedure simply ensures the lock is clear of all residual programming that may have been added when the lock was tested at the factory.

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# **CYLINDER ADAPTER KIT**

# ADDENDUM

WI 1177 1/03

# **CAUTION** PROPER ALIGNMENT OF GEARS IS CRITICAL!

FAILURE TO ALIGN GEARS PROPERLY WILL CAUSE LOCK TO MALFUNCTION.

**Note:** See the illustrated instructions, WI 1163, "How to Replace Cylinder" for detailed replacement procedures. After inserting the new cylinder and Slide Plate, and before replacing the Cover Plate (step 16), align the gears as follows:

The rollpin hole located on the Spindle Bushing (HW970) must be aligned with the stamped arrow on the Gear Driver (HW968). Using a straight edge (or for convenience you can use the Cover Plate HW1016 instead of a straight edge) align the gears as shown in the illustration at right:

Place one end of the straight edge directly over the center retaining screw of the Gear Driver. Align the other end of the straight edge with the rollpin hole. The stamped arrow ( $\hat{T}$ ) on the Gear Driver **must** be directly underneath the straight edge when aligned with the rollpin hole.

If the arrow is not aligned, loosen the Gear Driver retaining screw, lift the Gear Driver. The Slide Plate springs will cause the Spindle Bushing to self-align (if the Slide Plate is installed properly). Re-position the Gear Driver until the arrow is aligned with the rollpin hole. Tighten the Gear Driver Retaining screw, and Replace the Cover Plate and Frame Spacer as per the directions in WI 1163.





# Cylinder Adapter Kits Installation Guide

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To replace a specific cylinder, a specific *Cylinder Adapter Kit* is required. The kit includes: Cylinder Collars, Cylinder Adapter, IC or Standard Tailpiece, Plastic Rings, mounting screws, Washer and Wave Washer. *Kit does <u>NOT</u> include the cylinder*. Note: When ordering kit, specify the finish at the end of the Part #. For example, **ET-ARIC/US3**.

**ATTENTION:** WHEN INSTALLING THE ADAPTER KIT, BE SURE TO REPLACE THE ORIGINAL TAILPIECE WITH THE TAILPIECE INCLUDED IN THE KIT. IN ADDITION, BE SURE TO REPLACE ANY GREASE THAT WAS REMOVED DURING THE INSTALLATION.



Schlage I.C. Tailpiece (HW1060)





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Kit Description	Part #	Cylinder Collar(s)	Cylinder Adapter	Tailpiece		Plastic	Washor	Wave
Rit Description	i ait #			Std	IC	Rings	S	Washer
Arrow 6 & 7 pin I.C.	ET-ARIC	HW1098 HW1077	HW1066		HW1062	HW1099		WA200
Arrow Standard	ET-AR	HW980	HW1066	HW1053		HW1099		WA200
Assa Standard	ET-AS	HW980	HW1069	HW1054		HW1099		WA200
Alarm Lock Standard	ET-AL	HW980	HW1007	HW971		HW573		WA200
BEST 6 & 7 PIN I.C.	ET-BIC	HW1098 HW1077	HW1065		HW1062	HW1099		WA200
Corbin I.C.	ET-CIC	HW980	HW1067		HW1061	HW1099		WA200
Corbin Standard	ET-C	HW1077	HW1067	HW1055				WA200
Medico 6 & 7 Pin I.C.	ET-MIC	HW1051	HW1063		HW971	HW1099	WA171	WA200
Medico Standard	ET-M	HW1051	HW1069	HW1056		HW1099		WA200
Sargent I.C. Small / Large Format Core	ET-RIC	HW2145 HW1051	HW1066		HW1080	HW1099		WA200
Sargent Standard	ET-R	HW980	HW1066	HW971		HW1099		WA200
Schlage I.C.	ET-SIC	HW1098	HW1063		HW1060 (see image above)	HW1099	HW830	WA200
Schlage Standard	ET-S	HW980	HW1007	HW1057				WA200
Yale 6 & 7 Pin I.C.	ET-YIC	HW1098 HW1151	HW1063		HW1059	HW573	WA160	WA200
Yale Standard	ET-Y	HW1077	HW1063	HW1058				WA200



EXPLODED VIEW OF INTERNAL LOCK COMPONENTS\*

\*Alarm Lock Limited Warranty is printed in the original installation instructions (available for download at <a href="http://tech.napcosecurity.com/">http://tech.napcosecurity.com/</a> )

# TO REPLACE THE CYLINDER ADAPTER:

1. Remove the Frame Spacer.



2. Remove screws necessary to unfasten and remove the **Cover Plate**.



3. Remove **Slide Plate** (Careful! 2 springs may pop out).



4. Use screwdriver to carefully pry up and remove **Spindle Sector Gear**.



5. Remove Drive Pin from Spindle Bushing.



6. Remove the "C" **Retainer Ring** from the base of the **Spindle Bushing**.



7. Remove four screws: Two screws to disengage the **Cylinder Adapter**, and two screws to detach the factory cylinder.



8. <u>Push</u> the **Spindle/Spindle Bushing** assembly out of the factory **Cylinder Adapter** to separate.



Set aside the factory **Cylinder Adapter**, factory **Cylinder Collar** and the factory cylinder. Install the new cylinder using all necessary parts included in the *Cylinder Adapter Kit* (see chart on page 1), as follows:

### **New Cylinder Installation**

 Insert the Spindle/Spindle Bushing assembly into the bottom of the new Cylinder Adapter. Re-install the "C" Retainer Ring into the base of the Spindle Bushing to secure.



 Position the Cylinder Adapter with its stamped part number facing "up" towards the top of the lock. Secure with its two small screws removed previously.



**Hint:** Before re-installing the **Drive Pin**, prepare and install the new cylinder.

### 10. Prepare the new cylinder:

Insert the new cylinder into the new Cylinder Collar, using as many **Plastic Rings** as necessary to ensure that the face of the cylinder is flush with (or

Alarm Lock Cylinder Adapter Kits

### slightly below) the Cylinder Collar.

Install the new tailpiece, if needed (see chart). (IC core shown)



Install this cylinder assembly into the front of the lock and secure with its two screws (shown below).



Note: Remember, the Cylinder Collar should be snug, but remain free to turn (its ability to turn is a security feature). If necessary, use a Wave Washer to ensure the Cylinder Collar is not wobbly or rattling.

11. Re-install the Drive Pin into the Spindle Bushing.



12. Before installing the Spindle Sector Gear, be sure the two dots on the Idle Gear and the arrow on the Handle Gear Driver are precisely aligned as shown in the photo shown below. If mis-aligned, simply remove the "C" retainer ring on the Idle Gear and re-align the gear teeth.

Re-install the Spindle Sector Gear. The gear tooth with the arrow must be placed between the two dots on the Idle Gear. The arrows and dots on all gears must align as shown at right.





After the gear teeth are aligned and meshed, gently tap with a small hammer, if necessary, until flush.

13. Re-install the Slide Plate (with its 2 springs).



14. Re-install and secure the Cover Plate and the Frame Spacer (see exploded view illustration and steps 2 and 1) using the screws removed earlier.

### **Quick Function List**



### **Quick Function List**

Entering Program Mode [] Master Code
Change Master
Add/Delete User 1 2 1 [] 1 []
Disable User
Enable User
Set Date 3 8 [] *
Set Time
Set Day [1 4 0 1 [ ] Day (1 - 7), Sun = 1
Enable Passage Mode
Disable Passage Mode 🛛 🕵 🐔 📧
Exit Program Mode Hold down any key for 5 seconds.

# Correction to T3 Series Programming Instructions User Code 298

The User Code for User 298 (the "Quick PC Access" download code) DOES in fact allow access to the protected room.

A full description of the User 298 Code follows:

### User 298: Quick PC Access Code

Entering the User Code for User 298 enables that User to send data to or from the lock. Therefore, User 298 can activate what is the equivalent of Function 58 in Program Mode without the need to enter Program Mode nor the need to know the Master Code of the lock. An AL-PCI cable with a PC is required.

**NOTE:** The only User Code that does NOT allow access is the User 299 (AL-DTM) Code. The User 299 Code initiates the transfer of data with the AL-DTM Data Transfer Module.

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have a connector plug to simplify the installation. The mating harness and two The two white remote release wires now wire nuts are located in the literature bag.

# **NEW CONNECTOR FOR REMOTE RELEASE**

