



Patent Pending

INSTALLATION MANUAL AND USER'S GUIDE

THIS MANUAL FOR USE WITH
AUTOCLOSER ONLY

Revision 1.4

i-touch™ is designed and manufactured by



Made in
the
U.S.A.



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any modifications made to the i-touch™ without express approval by Xceltronix, Inc. could void the user's authority to operate said equipment.

Included Components

i-touch™ kit components (for use with Autocloser™)

1. 1 **i-touch™** with 3-foot strip of 4-conductor cable attached
2. 1 9V 300mA power supply (to replace **Autocloser™** power supply if i-touch shipped without an Autocloser).
3. 2 30-foot spools of 2-conductor wire
4. 1 resealable bag holding: 2 #6 x 3/4" wood screws with wall anchors, 1 set-screw, and 2 extra screws for **Autocloser™** GA terminals
5. 1 **i-touch™** mounting bracket
6. 1 **i-touch™** / **Autocloser™** manual
7. 4 Wiring splicing connectors.

i-touch™ kit recommended additional components

1. If **i-touch™** is to be installed in plaster-based wall without gang box, consider using wall anchors for the screws

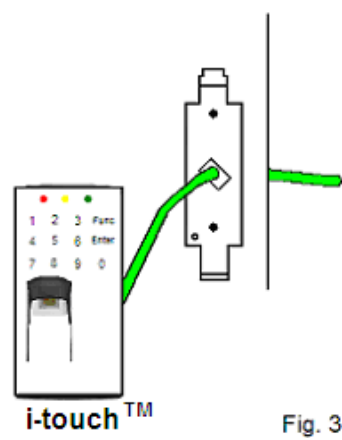
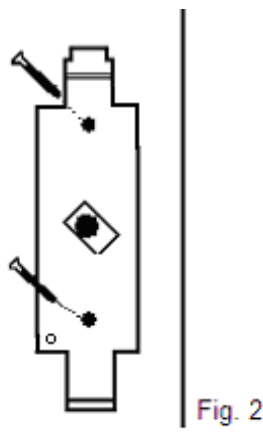
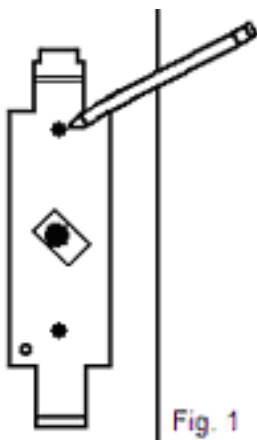
Mounting Instructions

Mounting to wall, without existing gang box.

1. Using the mounting bracket as a template, mark three hole locations on your wall. The bracket should be oriented as below. (Fig. 1)
2. Drill at the marked locations: two pilot holes for mounting screws and one larger hole for the cable.
3. Align mounting bracket to pilot holes. Install the two #6 x 3/4" wood screws, with plastic wall anchors optional. (Fig. 2)
4. Thread cable from back of **i-touch**TM unit through center of bracket and into wall hole. (Fig. 3)
5. Slide **i-touch**TM unit onto mounting bracket. Secure at bottom with setscrew.
6. Connect wires per Wiring Instructions (Fig. 4) on the following page.

Mounting to wall, with existing gang box.

1. Remove plastic faceplate from standard single gang box. Keep these screws in hand.
2. Using screws from step 1, screw mounting plate into gang box.
3. Thread cable from back of **i-touch**TM unit through center of bracket and into gang box hole.
4. Slide **i-touch**TM unit onto mounting bracket. Secure at bottom with setscrew.
5. Connect wires per Wiring Instructions (Fig. 4) on the following page.



Wiring Instructions

Basic Access Control with an i-touch™ and Autocloser™

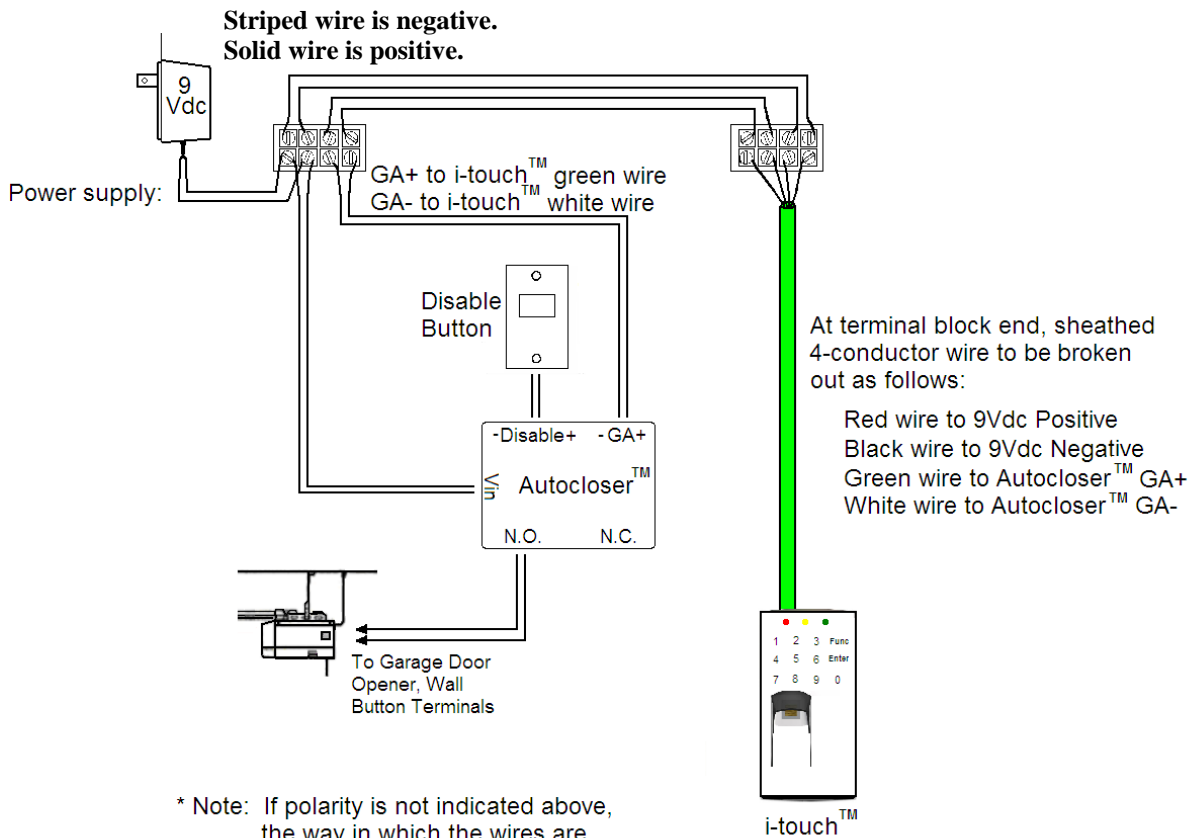


Fig. 4

- * Drawing is for reference only. Installation must follow local building and electrical codes.
- * For information regarding installation and setup of **Autocloser™**, see **Autocloser™** manual.

Instructions

How Many and Of What Kind

Your **i-touch™ / Autocloser™** kit has limits on the number of fingerprints and codes which can be entered. Those limits are as follows:

1. Only one Master User can exist. That master can choose to use a Master Fingerprint or to use a Master Code, but not both.
 - a) Fingerprint option can be used to verify master authenticity and also to gain access to the secure area (open the door).
 - b) Code option can only be used to verify master authenticity when setting up the **i-touch™ / Autocloser™** kit. It cannot be used to access the secure area. Using a Master Code shared between trusted people could allow those several people the rights for things such as adding new users.
2. Regardless of whether a Master Fingerprint or Master Code was chosen, up to 29 additional fingerprints and up to 29 additional codes can be stored. While the fingerprints are mated to a specific user's finger, the codes can be linked to either a specific user or to a group of users. For instance:
 - i) Permanent fingerprint of a user is established so the user always can enter a secured area and doesn't need a physical door key.
 - ii) Temporary fingerprint of user with 6 days of activity could be issued to allow the user to feed your pets while you are on vacation.
 - iii) Permanent code '**192837**' could be given to a single child, or to all the members of your family.
 - iv) Temporary code '**5474**' with 21 days of activity could be given to a small team of contractor workers, and once that time is up those workers no longer have access to the secure area.

Instructions

Keeping Track of What's What and Who's Who

As fingerprints and codes are entered into your **i-touch™ / Autocloser™** kit and then sync'd, consider entering this information into a personal log using the four pages of tables towards the end of this manual. Why might you need this?

1. It helps the Master User know how many total fingerprints and codes have been entered, to determine how many more can still be added.
2. If the master doesn't recall whether a specific person has a fingerprint in the system or not, it will be in the log.
3. If a user (or group of users) forget an assigned code, it will be in the log.
4. If a fingerprint is to be deleted, the master must know the ID of that user. If that information is in the table then the master doesn't need to track down the user and ID that fingerprint in order to remove it from the system. Alternatively, the master wouldn't need to remove all the fingerprints from the **i-touch™ / Autocloser™**.
5. If a code is to be deleted, the master must know that code. Otherwise, to remove it the master would need to remove all the codes from the **i-touch™ / Autocloser™** kit and have only the desired people once again add their code.
6. It helps keep track of the time remaining with temporary fingerprints and temporary codes.

Overview Of 1st Time Configuration Steps

1. Physically install your **i-touch™** and **Autocloser™** as earlier described.
2. Make sure **i-touch™** and **Autocloser™** are wired properly and are powered.
3. Create a Master User.
4. Add new fingerprints and codes. Update the tables at the back of this manual.
5. Sync the **i-touch™** and **Autocloser™**.

LED meanings are as follows:

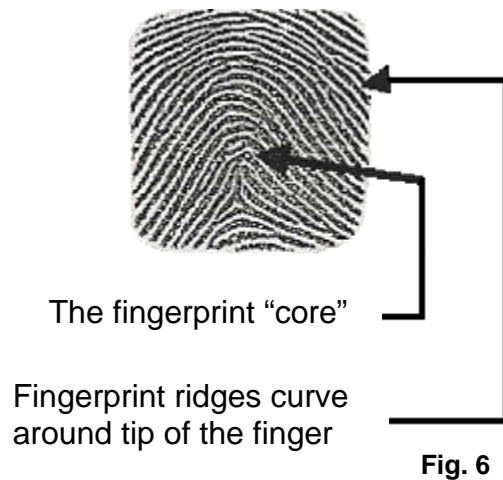
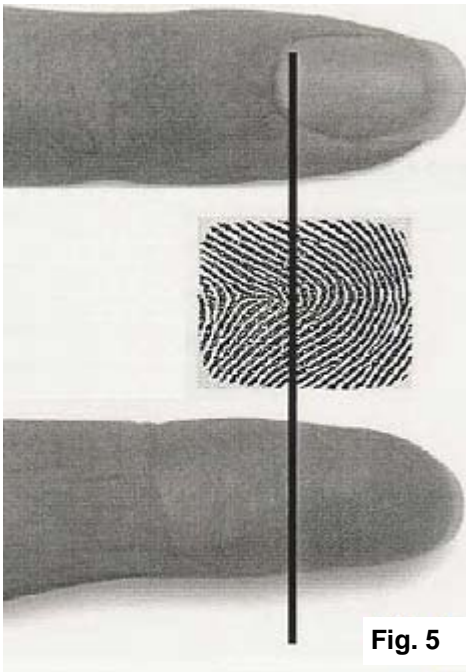
Green LED below the checkmark icon indicates ACCEPT
Yellow LED below the O (center) icon indicates INPUT
Red LED below the X icon indicates ERROR

Instructions

Fingerprint Placement:

For optimal fingerprint recognition, the full area of the fingerprint (not just the tip of the finger) should be placed lightly and flatly on the sensor. The user should slide the finger all the way to the top of the groove, where the flesh of the fingertip rests against the plastic stop. (See Tips and Tricks.)

While the fingerprint matching process of the **i-touch™** is tolerant to non-optimum finger placement, centering the “core” just above the swirl section of the fingerprint will give the best possible performance. See Fig. 5 and Fig. 6.



The fingerprint “core” generally lines up under the beginning of the nail, or about midway between the first knuckle and fingertip.

Instructions

Initial Configuration / Master User Setup

1. Make sure **i-touch™** and **Autocloser™** are wired properly and are powered with the 9V adapter found in the **i-touch™** box. A standard 6V **Autocloser™** power supply will not work to power both devices and should not be used.
2. Short **Autocloser™** GA+ and GA– terminals. This step *is* required for to enter setup (Cut and strip a small piece of the supplied wire and connect both terminals together).
3. Create a Master User. This Master User is the only one who has the ability to add/delete other users. The Master User can either create a Master Fingerprint [abbreviated MF] or Master Code [abbreviated MC] as described below. Only one authorization method [MF or MC] can be established as the master. To change the Master User (or the master's authorization method), these steps must be repeated and all user data will be deleted.
4. To establish a Master User, enter the master setup code by pressing the **FUNC** key, then the **0/SETUP** key. The **INPUT** LED will now be lit.
5. Enter the eight digit setup code **92358766** followed by the **ENTER** key. If the code is entered correctly then all LEDs will blink in sequence, followed by a flashing **ACCEPT** LED, followed by a solid **INPUT** LED. Any preexisting fingerprints or access codes are now erased and the unit is prepared to accept a MC or MF. If **ERROR** LED is flashing, verify step 2.
HINT: setup code '92358766' is the first 8 characters of "Xceltronix" as seen on a touch tone phone keypad.
6. If a MC is preferred, skip to step 7. To input a MF, wait until the **INPUT** LED begins to blink. No keys should be pressed before the **INPUT** LED begins flashing. The Master User should place their finger on the sensor appropriately. When the **INPUT** LED stops blinking, remove the finger from the sensor. This process is repeated up to five times to ensure an accurate reading. If the MF profile is accepted, the **ACCEPT** LED will flash and the device will enter normal operating mode. If an error occurs, the **ERROR** LED will light, and the setup process must be repeated.
7. To input a MC, while the **INPUT** LED remains lit constantly, immediately enter an eight digit code of your choosing followed by the **ENTER** key. This code cannot duplicate the setup code or consist of all zeros. (Should the **INPUT** LED start flashing, the input period for a MC has expired and setup process must be repeated.) If the MC is accepted, the **ACCEPT** LED will flash and the device will enter normal operating mode.
NOTE: The MC is only used for authorizing secure functions. It cannot be used for entry/exit purposes.
8. Remove short between **Autocloser™** GA+ and GA– terminals.
9. The system is now ready to accept user fingerprints, user codes, or to synchronize with the **Autocloser™** .

Instructions

Master User Authorization

Any function that requires Master User authorization will require the following procedure:

* If a MF was chosen, the **INPUT** LED will be flashing. The Master User should place the finger on the sensor properly and remove it once the **INPUT** LED stops flashing.

* If a MC was chosen, the **INPUT** LED will be solidly lit. Input the MC followed by the **ENTER** key.

Synchronizing (Requires Master User authorization)

Synchronizing is required after any addition or deletion of user codes or fingerprints. This procedure transfers information from the **i-touch™** panel to the **Autocloser™**. Only one sync procedure is necessary for a batch of additions or deletions.

1. Put **Autocloser™** device into setup mode by moving **OFF/SETUP/ON** switch to the **SETUP** position.
2. On the **i-touch™** press the **FUNC** key and then the **5/SYNC** key.
3. Input MF, or input MC and the **ENTER** key. If the Master User authorization was successful, the **ACCEPT** LED will flash.
4. The **ACCEPT** LED will remain lit until all data has been transmitted. This may take up to two minutes and there will be a series of beeps. If the transmission is completed successfully, the **ACCEPT** LED will flash. Otherwise, the **ERROR** LED will flash and the procedure must be repeated.
5. Move the **OFF/SETUP/ON** switch back to **ON**.

Add A Permanent Fingerprint (Requires Master User Authorization)

1. Press the **FUNC** key followed by the **1/ADD PRINT** key.
2. Input MF, or MC and the **ENTER** key. If the MF or MC is accepted, the **ACCEPT** LED will flash followed by a flashing **INPUT** LED. If the **ACCEPT** LED is not flashing, it either means the Master User wasn't recognized or that the maximum number of fingerprints have already been added, and the **ERROR** LED will flash.
3. Once the MF or MC has been accepted, the new user should place their finger on the sensor (See Fingerprint Placement Instructions) and remove

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it when the **INPUT** LED remains off. This fingerprint placement process must be repeated up to five times to ensure an accurate reading. If a fingerprint profile is accepted, a unique user ID will be generated and the **ACCEPT** LED will flash out that user's ID (Valid IDs are numbered 1-30, where the Master User ID is always the number 1). If the fingerprint profile is not accepted, the **ERROR** LED will flash.

NOTE: Optionally, users can fill in this information to ID / Fingerprint User table at the back of this manual.

4. If finished with the batch of fingerprint additions, perform **i-touch™ / Autocloser™** synchronization procedure.

Add A Temporary Fingerprint (Requires Master User Authorization)

A Temporary Fingerprint is set to expire after a user specified number of days. To input a temporary fingerprint:

1. Press the **FUNC** key, then the **7/TEMPORARY** key, followed by the **1/ ADD PRINT** key.
2. Input MF, or MC and the **ENTER** key. If the MF or MC is accepted, the **ACCEPT** LED will flash. If the **ACCEPT** LED did not flash, it either means the Master User wasn't recognized or that the maximum number of fingerprints have already been added, and the **ERROR** LED will flash.
3. The **INPUT** LED should be flashing. The new user should place their finger on the sensor and remove it when the **INPUT** LED stops flashing. This fingerprint placement process must be repeated up to five times to ensure an accurate reading.
4. After the fingerprint has been accepted, the **INPUT** LED should be lit solid. Enter the number of active days (max 30 days), followed by the **ENTER** key. The temporary fingerprint will expire in the number of active days (+/- two hours).
5. If the temporary fingerprint addition was successful, the **ACCEPT** LED will flash. If the **ERROR** LED flashes, an incorrect number of days was input.
6. If finished with the batch of fingerprint additions, perform **i-touch™ / Autocloser™** synchronization procedure.

NOTE: Optionally, users can ID their Temporary Fingerprint and fill in this information to ID / Fingerprint User table at the back of this manual.

Instructions

ID A Fingerprint

1. Press the **FUNC** key followed by the **2/ID PRINT** key.
2. When **INPUT** LED begins flashing, the user should place their finger on the sensor properly.
3. If the fingerprint is recognized, the **ACCEPT** LED will flash out the ID for that fingerprint (Valid IDs are 1-30, the Master User's ID is always the number 1). If the fingerprint was not recognized, the **ERROR** LED will flash

Delete A Temporary Or Permanent Fingerprint (Requires Master User Authorization)

To delete a user fingerprint the Master User must know the ID assigned to the user when the fingerprint was entered. (Valid IDs are numbered 1-30, where the Master User ID is always the number 1). To delete a fingerprint:

1. Press the **FUNC** key then the **3/DELETE PRINT** key.
2. Input MF, or input MC and the **ENTER** key.
3. If the Master User authorization is accepted, the **ACCEPT** LED will flash, followed by a solid **INPUT** LED.
4. Enter the ID of the fingerprint to be deleted followed by the **ENTER** key. If the ID is a single digit (2-9) then a leading zero may be entered but is not required. (NOTE: MF can not be deleted in this manner.)
5. If the fingerprint was successfully deleted, the **ACCEPT** LED will flash. If there is no fingerprint currently associated with that ID, the **ERROR** LED will flash.
6. If finished with the batch of fingerprint deletions, perform **i-touch™ / Autocloser™** synchronization procedure.

NOTE: Master may wish to remove deleted fingerprint user's information from the User ID / Fingerprint User table at the back of this manual.

Instructions

Deleting All Temporary And Permanent Fingerprints (Requires Master User authorization)

1. Press the **FUNC** key, and the **6/DEL ALL PRINTS** key.
2. Input MF, or input MC and the **ENTER** key.
3. If the Master User authorization was successful, the **ACCEPT** LED will flash, followed by all of the LEDs flashing simultaneously.
4. Press the **ENTER** key to confirm deletion of all fingerprints. (NOTE: MF will not be deleted)
5. Perform **i-touch™ / Autocloser™** synchronization procedure.
NOTE: Master may wish to remove all fingerprint users' information from the User ID / Fingerprint User table at the back of this manual.

Adding a Temporary Access Code (Requires Master User authorization)

A Temporary Access Code is set to expire after a user specified number of days. To input a temporary access code:

1. Press the **FUNC** key, then the **7/TEMPORARY** key, followed by the **4/ADD CODE** key.
2. Input MF, or input MC and the **ENTER** key. If the Master User Authorization is successful, the **ACCEPT** LED will flash.
3. The **INPUT** LED should be lit solid. Enter a 4-6 digit temporary access code followed by the **ENTER** key. The **INPUT** LED will remain on.
4. Enter the number of active days (max 30 days), followed by the **ENTER** key. The temporary code will expire in the number of active days (+/- two hours).
5. If the temporary access code addition was successful, the **ACCEPT** LED will flash. If the **ERROR** LED flashes, an incorrect code was input or the input timed out.
6. If finished with the batch of code additions, perform **i-touch™ / Autocloser™** synchronization procedure.

Instructions

Adding a Permanent Access Code (Requires Master User authorization)

1. Press the **FUNC** key followed by the **4/ADD CODE** key.
2. Input MF, or input MC and the **ENTER** key.
3. If room exists for input of another permanent access code (a total of 29 temporary / permanent access codes are allowed, not including the MC), the **INPUT** LED will be lit. If the **ERROR** LED flashes, either the Master User Authorization failed or there is no remaining room for additional access codes to be entered.
4. If the **INPUT** LED is lit, enter a 4-6 digit permanent access code followed by the **ENTER** key.
5. If the permanent access code addition was successful, the **ACCEPT** LED will flash.
6. If finished with the batch of code additions, perform **i-touch™ / Auto-closer™** synchronization procedure.

NOTE: Users can add their code(s) into the table in the back of this manual.

Deleting A Temporary Or Permanent Access Code (Requires Master User authorization)

1. Press the **FUNC** key then the **8/DEL CODE** key.
2. Input MF, or input MC and the **ENTER** key. If the Master User Authorization is successful, the **ACCEPT** LED will flash, followed by a solid **INPUT** LED.
3. Input the code to be deleted and press the **ENTER** key. (NOTE: MC can not be deleted in this manner.)
4. If the code was successfully deleted, the **ACCEPT** LED will flash.
5. If finished with the batch of code deletions, perform **i-touch™ / Auto-closer™** synchronization procedure.

NOTE: Master can remove this/these code(s) from the table in the back of this manual.

Instructions

Deleting All Temporary And Permanent Access Codes (Requires Master User authorization)

1. Press the **FUNC** key then the **9/DEL ALL CODES** key.
2. Input MF, or input MC and the **ENTER** key. If the Master User Authorization is successful, the **ACCEPT** LED will flash, followed by all LEDs flashing.
3. Press the **ENTER** key to confirm deletion of all access codes. (NOTE: MC will not be deleted)
4. If all access codes were successfully deleted, the **ACCEPT** LED will flash.
5. Perform **i-touch™ / Autocloser™** synchronization procedure.
NOTE: Master can remove all codes from the table in the back of this manual.

Door Access Using Temporary or Permanent Fingerprint

1. Be certain the synchronization procedure has been performed since the last addition/deletion of fingerprints.
2. Properly place finger on sensor until **INPUT** LED turns off.
3. If the fingerprint is accepted, then the **ACCEPT** LED will flash. The garage door will behave as if the existing garage door opener button were pressed. If no fingerprint match is found, the **ERROR** LED will flash.
Note: Sometimes multiple fingerprint reading attempts are necessary to maintain tight security.
4. The **ENTER** key option is now activated and the 10-second timer has started counting down. (See Tips and Tricks)

Door Access Using Temporary or Permanent Code

1. Be certain the synchronization procedure has been performed since the last addition/deletion of codes.
2. Type in an assigned 4-6 digit access code and press the **ENTER** key.
NOTE: The MC cannot be used for entry/exit purposes.
3. If the access code is accepted, then the **ACCEPT** LED will light. The garage door will behave as if the existing garage door opener button were pressed. If no code match is found, the **ERROR** LED will flash.
4. The **ENTER** key option is now activated and the 10-second timer has started counting down. (See Tips and Tricks)

Tips and Tricks:

- * When any new user is adding their print to the **i-touch™** database, that user should place the desired finger on the sensor properly. While centering (left to right, and rotation) is important, the user should place the finger in a casual way such that the positioning will line up to future scans (for Master User Authorization, or for door entry).
- * Be certain that all fingerprint scans are performed with the fingerprint section and sensor being clean of dirt dust excessive sweat or other debris, as scanning accuracy will be reduced and less fingerprint matching will occur.
- * In any case where the **ERROR** LED is flashing, the user does not need to wait until it remains solidly off before continuing operation. The **ERROR** LED is merely feedback, and the press of any button on the **i-touch™** panel will be treated as a valid keystroke (and will stop the LED's flashing). Alternatively, a fingerprint can be scanned repeatedly without waiting through the **ERROR** flashing.
- * An **i-touch™ / Autocloser™** synchronization procedure does not need to be performed after each individual fingerprint/code addition/deletion, but instead can be done after a batch of changes. For the changes to take place and the new access permissions to be allowed/denied, the master must first perform **i-touch™ / Autocloser™** synchronization procedure.
- * When opening or closing the garage door with a fingerprint / code, once that authorization is accepted a 10 second timer begins. The door can then be opened or closed with only the push of the **ENTER** key for the duration of that timer. Pressing the **ENTER** key acts just like pressing your existing garage door opener button, and every press will reset the 10 second timer.
- * Should a power outage occur, the **i-touch™** will retain all its fingerprints and codes, but the counters keeping track of expiration times of temporary fingerprints/codes will stop . Once power resumes, all previously-programmed **i-touch™** functionality will also resume and any timers will resume.

USER ID	PERM or TEMP (ENTRY DATE & DURATION)	FINGERPRINT USER'S NAME
1		MASTER USER:
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

USER ID	PERM or TEMP (ENTRY DATE & DURATION)	FINGERPRINT USER'S NAME
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

#	PERM or TEMP (ENTRY DATE & DURATION)	CODE USER/GROUP NAME & CODE
1		MASTER USER:
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

#	PERM or TEMP (ENTRY DATE & DURATION)	CODE USER/GROUP NAME & CODE
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LIMITED LIFETIME WARRANTY

What does the warranty cover? Any defect in parts and product workmanship that arises from normal household use in accordance with the Installation Manual and User's Guide.

How long does the warranty last? Parts are warranted for life* and labor is warranted for 90 days from the date of purchase.

*Lifetime warranty only applies to the original owner. The product must be registered using the form at the end of this manual or the original proof of purchase must be shown to receive warranty service.

Who gets the warranty? This warranty is limited to the consumer who originally purchased the product.

How does the warranty service work? If the i-touch™ is defective, we will repair or, at our option, replace it. If we repair your product, we may use new or reconditioned replacement parts. If we choose to replace your i-touch™, we may replace it with a new or reconditioned unit of the same or similar design. During the first 90 days from the date of purchase, all parts and labor are free of charge. After the first 90 days from the date of purchase, all parts are free and a nominal diagnosis charge will be collected for labor.

How is warranty service obtained? We suggest that you retain your original packing materials in the event you need to ship your i-touch™. Ship the unit to:

**Xceltronix, Inc.
Attn: Warranty Service Dept.
1226 Exchange Drive
Richardson, TX 75081**

Include your name, address, telephone number, proof of date and place of purchase, and a description of the problem. If you contact Xceltronix, Inc. or mail the unit after the first 90 days from the date of purchase, you will be charged a bench fee of \$25.00 to repair or, at our option, replace the unit.

What does the warranty not cover? This warranty does not cover installation, defects resulting from accidents, misuse or abuse, unauthorized repair or modification, fire, flood, other natural disasters or acts of war.

REPLACEMENT PARTS

To order replacement parts visit our website at:

www.autocloser.com

Or contact us:



Xceltronix, Inc.
1226 Exchange Drive
Richardson, TX 75081
1-877-748-8366 (1-877-SHUT DOOR)
or 972-437-9393

i-touch Warranty

First Name

Last Name

Address

City

State

Zip Code

Phone #

Email Address

Date of Purchase

Limited Lifetime Warranty: read the warranty section
in the Installation Manual and User's Guide for details.

Please mail to: Xceltronix, Inc.
1226 Exchange Drive
Richardson, TX 75081