KE-1701 Code Types

Code Type	User Type	Function
Master User Code 1 Changeable Code, 3 – 8 Digits Long Factory Default: 1 3 5 7 9	Vehicle Owner, Operator, or Manager	- Vehicle Entry & Auxiliary Output Control - Add, Change, Delete Optional User Codes
Optional User Codes 5 Changeable Codes, 3 – 8 Digits Long	Family Member, Friend, Mechanic, Valet, Authorized Vehicle Operator	- Vehicle Entry & Auxiliary Output Control
Lock Code 3 Non Changeable Codes - Lock Code 559 - Lock Code 557 - Lock Code 555	Everyone	- 559 -Locks Door, Arms Enabled, Arms Keypad, Cancels 3-Digit Convenience Code Mode - 557 – Locks Door, Arms Enabled, Cancels 3-Digit Convenience Code Mode - 555 – Locks Door, Activates 3-Digit Convenience Code (if enabled)

CAN NOT START CODE WITH 5/6.

KE-1701 Code Programming Commands

Code Type	Commands
Master User Code Where is the Programming Switch Installed? What is my Master User Code?	**To Change The Master User Code** 1. Locate and press the Programming Switch 2. 4 Rapid Beeps will sound 3. Enter 1119 on the keypad 4. 3 Rapid Beeps will sound 5. Enter the new 3 – 8 Digit Master User Code within 5 seconds 6. Wait 5 seconds for 3 Rapid Beeps 7. Test the new Master User Code 8. If the new code does not work, repeat Steps 1. – 7.

! Caution !

Make sure you have door keys or leave a window open before testing your new Master User Code!

Code Type & Memory Location	Commands
Optional User Code 111 Optional User Code 113 Optional User Code 115 Optional User Code 117 Optional User Code 119	**To Add or Change an Optional User Code** 1. Enter the Master User Code on the keypad 2. Enter the Optional User Code Memory Location Number 3. 3 Rapid Beeps will sound (command accept) 4. Enter the new 3 – 8 Digit Optional Use Code 5. Wait 5 seconds and 3 Rapid Beeps will sound (command accept) 6. Test the new Optional User Code 7. If the new code does not work, repeat Steps 1. – 6. 8. Repeat Steps 1. – 6. to add additional Optional Users
Optional User Code 111 Optional User Code 113 Optional User Code 115 Optional User Code 117 Optional User Code 119	**To Delete an Optional User Code** 1. Enter the Master User Code on the keypad 2. Enter the Optional User Code Memory Location Number 3. 3 Rapid Beeps will sound (command accept) 4. Wait 5 seconds for 3 Rapid Beeps (system reset) 5. Test the deleted Optional User Code 6. If the deleted code still works, repeat Steps 1. – 4.
	Note: One Long Beep indicates an error – allow the system to reset - 2 Rapid Beeps - then proceed to re-enter the required commands

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KE-1701 User Code Record List
The Worry-Free Keyless Entry System

Code Type	User Name	3-8 Digit Long Code	Date Changed
Master User Code			
Optional User Code 111			
Optional User Code 113			
Optional User Code 115			
Optional User Code 117			
Optional User Code 119			

What code combinations are restricted
- Codes 559, 557, and 555 are pre-assigned as Lock Codes. There is no harm if everybody knows the Lock Code, However, you can't change a Lock Code so you can't use 559, 557, or 555 as the Master User Code or as an Optional User Code.
- You may not program a new Master User Code or Optional User Code that starts with the digits 5 or 6 (Key 5/6). Why? Because Lock Codes start with 5. If you want a 5 or 6 at the beginning of your code start with 05 or 06 plus the additional digits of the complete code. Example: 05 05 68 (a birth date).

Caution : Never user the same first 3 digits of your Master User Code as the first 3 digits of an Optional User Code. If you do, you will not be able to do any more programming. You will have to press the System Programming Switch and select a new Master User Code.

What code combinations are not recommended
- Using your ATM PIN number or computer pass codes Short codes using the same digit - example: 111, or very simple codes - example: 123 or 911
- The number on your car license plate

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3. Using Codes

There are two types of Codes available in the KE-1701: The Master User Code (1) and Optional User Codes (5). The Master User Code operates all functions available in the system plus allows you to add, change, and delete Optional User Codes.

How to enter the Master User Code

A. To Unlock the vehicle simply enter your 3 to 8 digit Master User Code

Note: The Factory Default Master User Code is 1 3 5 7 9. You or your installer should change this immediately to a personal 3 to 8 digit code. Try using a 7 digit phone number for your new Master User Code.

Note: The keypad on the KE-1701 has 5 keys. Each key represents two digits. The first key can be used as either or both the numeral 1 and the numeral 2 when you are entering a code. Example: The Factory default Master User Code can be described as 1 3 5 7 9 or as 2 4 6 8 0. To the system they are the same 5 digit code. If you want a 1 or a 2 in your Master User Code or in an Optional User Code use the first key to represent both numbers.

How to change the Master User Code

A. Locate and press the System Programming Switch
4 Rapid Beeps 🔆 will sound and you will have 2 minutes to start programming the system.

B. Enter 1 1 1 9 on the keypad
3 Rapid Beeps 🔆 will sound

C. Within 5 seconds of the 3 Rapid Beeps start entering your new 3 to 8 digit Master User Code. Now wait 5 seconds and listen for 3 Rapid Beeps 🔆. You're done! Try the new Master User Code and the door will unlock. If it doesn't, please read the following paragraph to see if you made an error or skipped a step while programming.

Note: When using or programming your system you must make each keystroke within 5 seconds of the previous keystroke or the system will timeout and reset to normal operation. 2 Rapid Beeps signal system reset. If the system resets before you have completed changing the Master User Code, you must start over by pressing the System Programming Switch. 1 Long Beep signals an error has been made during the programming sequence. Don't worry. Start over by pressing the System Programming Switch.

Where is the Programming Switch Installed?
What is my Master User Code?

Code Padding

If you feel you are being observed when you enter your code on the keypad you can "pad" your code by entering several random digits before you enter your actual code and still have the door unlock. For instance, if your code is 1 3 9 1 you can enter 5 7 1 3 9 1 and the door will unlock.

What code combinations are restricted

Codes 559, 557, and 555 are pre-assigned as Lock Codes. There is no harm if everybody knows the Lock Code. However, you can't change a Lock Code so you can't use 559, 557, or 555 as the Master User Code or as an Optional User Code.

Furthermore, you may not program a new Master User Code or Optional User Code that starts with the digits 5 or 6 (Key 5/6). If you want a 5 or 6 at the beginning of your code start with 05 or 06. Example: 05 05 68 (a birth date).

Caution: Never use the first digit of your Master User Code as the Optional User Code. If you do, you will have to press the System Programming Switch and select a new Master User Code.

What code combinations are not recommended

- Using your ATM PIN number or computer passcodes
- Short codes using the same digit - example: 111
- Simple codes - example: 123 or 911
- The numbers on your car's license plate

How to add Optional User Codes and what they are for

You can add up to 5 Optional User Codes in your Keyless Entry Keypad System if you wish. What are they for? You might want to have an Optional User Code to give to a family member or a friend if you need to lend them your vehicle temporarily. You can change it or delete it later. You might want another Optional User Code to give to a valet parking attendant or to a smog checker or service mechanic at the dealership. There might be other reasons you need to give someone else access to your vehicle when you are away and are not comfortable leaving a set of keys behind (after all, anyone can get a key copied at the local hardware store). Remember, don't give out your Personal Master User Code instead of an Optional User Code. That way you won't have to worry about changing your own code. **Refer to the KE-1701 User Code Guide Form included with your system for User Code programming steps.**

How to enter a Lock Code

Enter either 559, 557, or 555 Lock Codes. See the Convenience Code Mode section at the end of this Guide to understand why you might want to use Lock Code 555 instead of Lock Code 559 or 557.

4. Using Standard Outputs

- Unlocking and Locking

Your system has several standard outputs. One output is used to unlock the power door locks and another one is used to lock the door locks. Depending on your type of vehicle and how your installer has hooked up the system, you may be able to unlock only the driver's door or all of the doors.

- Interior Lights

A standard feature allows your installer to connect an output to activate the interior lights of your vehicle when any valid user code is entered on the keypad. The lights will stay on for about five seconds after the last keystroke is entered.

- Arm Output

The Arm Output (blue wire) provides a ground when the doors are locked by entering 557 or 559. This can be used to light a flashing LED in the vehicle or provide the ground side for a starter interrupt relay or similar device. If you locked the doors with 555, you can re-lock with 557 or 559 to enable the Arm Output without unlocking first. 559 also causes the keypad to blink every 15 seconds.

- Trunk Unlock

Some vehicles come with a power lock on the trunk. Your installer can connect any one of three Auxiliary Outputs to the trunk to allow you to unlock the vehicle and then the trunk. Most installers use the optional output which is triggered by pressing the 7/8 Key on the keypad within 5 seconds of entering a valid unlock code. The 3/4 Key or the 9/0 Key could be used instead of the 7/8 Key for the trunk, or to control other devices on your vehicle. If you are using the trunk unlock feature, you will first enter your personal entry code followed by pressing the 7/8 Key to open the trunk.

5. Using Auxiliary Outputs

- Auxiliary Output 3/4 - Press the 3/4 Key within 5 seconds of the last key press of a valid user code. **Note:** This output may be setup to toggle ON/OFF through a programming command for special control applications.
- Auxiliary Output 7/8 - Press the 7/8 Key within 5 seconds of the last key press of a valid user code. Normally connected to the trunk release, if available.
- Auxiliary Output 9/0 - Press the 9/0 Key within 5 seconds of the last key press of a valid user code.

6. Special System Setups

Your system has a special 3-Digit Convenience Code Mode which can be enabled by the system installer or by following commands listed in the Installer Guide. When the convenience code mode is enabled and the vehicle is locked by using Lock Code 555, every code in the system will now work by entering only the first 3 digits of the code. If you have used 7 or 8 digit codes this can be a handy way to allow a friend or service person to have temporary access by using 3 digits only, and without taking the time to add a new Optional User Code, and without giving away your personal Master User Code. To lock the doors so a full length Unlock Code is required, use Lock Code 557 or 559. Don't forget, you can always add 3-Digits Optional User Codes for use all the time without activating the Convenience Code Mode if you wish.

1. How do I use the Keyless Entry System?

How do I unlock my vehicle?
Your new system is so easy to use. *Simply* enter your personal three to eight digit code on the keypad and presto, the door unlocks.

KE-1701 User Guide
The Worry-Free Keyless Entry® System

1. How do I use the Keyless Entry System?

How do I unlock my vehicle?
Your new system is so easy to use. *Simply* enter your personal three to eight digit code on the keypad and presto, the door unlocks.
To lock the vehicle door from the keypad *Simply* enter Lock Code 559.

How can I remember my code?
Worried about remembering your code? *Simply* change the code to a number you already know by heart, such as your phone number.

How can I change my code?
Don't know how to change the code? *Simply* follow the few easy steps listed under changing the Master User Code, or call the installer that put the system in your vehicle for a service call.

We know you will enjoy the *worry-free convenience* of the Essex Keyless Entry Keypad System - no more keys or keyfobs to lose or lock in the vehicle. For further peace of mind, your system also provides memory for 5 Optional User Codes that can be added, changed, or deleted to allow a family member, friend, valet, or mechanic temporary access to the vehicle without having to give out your Master User Code.
If you have any questions or comments please contact us at 1-800-keyless or at www.keyless.com. We'd love to hear from you.

2. How does my system work?

The Essex Keyless Entry Keypad system is designed to provide a convenient method to safely and securely enter your vehicle without using keys or keyfobs. You can also use the keypad to unlock the trunk, open the windows or sunroof, or to actuate other accessories. If your vehicle is equipped with an alarm system, it will be disarmed when you enter a valid entry code. If your vehicle has a keyfob system as well, you can use it or the keypad, whichever your prefer, or whichever is more convenient at the moment.

When you first touch the keys the keys light up. When you enter your code the door unlocks and the vehicle's interior safety light goes on (if connected by your installer). Each time you press a key successfully the keypad beeps and blinks. If you accidentally make an error during code entry, simply start over with the correct code.

If you want to unlock a power actuated trunk simply press the 7/8 Key on the keypad within 5 seconds of entering a valid code. If you wait until the double beep, or until the keypad lights go out, you will have to start over by entering your personal user code plus the 7/8 Key (or 3/4 Key, or 9/0 Key, depending on how your installer has connected the three Auxiliary Outputs) to open the trunk or actuate another accessory. If 25 invalid digits are pressed in sequence, the system locks out code entry and activates the code tamper alarm by sounding a steady tone and flashing the interior and keypad lights for approximately 30 seconds. Once the alarm stops, you can enter a valid user code to unlock the vehicle.

KE-1701 Code Types

Code Type	User Type	Function

Master User Code
  1 Changeable Code,
  3 – 8 Digits Long
  Factory Default: 1 3 5 7 9
	Vehicle Owner, Operator, or Manager	- Vehicle Entry & Auxiliary Output Control
		- Add, Change, Delete Optional User Codes

Optional User Codes
  5 Changeable Codes,
  3 – 8 Digits Long
	Family Member, Friend, Mechanic, Valet, Authorized Vehicle Operator	- Vehicle Entry & Auxiliary Output Control

Lock Code
  3 Non Changeable Codes
  -   Lock Code 559
  -   Lock Code 557
  -   Lock Code 555
	Everyone	- 559 -Locks Door, Arms Alarm, Arms Keypad, Cancels 3-Digit Convenience Code Mode
		- 557 – Locks Door, Arms Alarm, Cancels 3-Digit Convenience Code Mode
		- 555 – Locks Door, Activates 3-Digit Convenience Code (if enabled)

KE-1701 Code Programming Commands

Code Type	Commands
Master User Code Where is the Programming Switch Installed? What is my Master User Code?	**To Change The Master User Code** 1. Locate and press the Programming Switch 2. 4 Rapid Beeps will sound 3. Enter 1119 on the keypad 4. 3 Rapid Beeps will sound 5. Enter the new 3 – 8 Digit Master User Code within 5 seconds 6. Wait 5 seconds for 3 Rapid Beeps 7. Test the new Master User Code 8. If the new code does not work, repeat Steps 1. – 7.

! Caution !

Make sure you have door keys or leave a window open before testing the new Master User Code!

Code Type & Memory Location	Commands
Optional User Code 111 Optional User Code 113 Optional User Code 115 Optional User Code 117 Optional User Code 119	**To Add or Change an Optional User Code** 1. Lock the vehicle with Lock Code 559 2. Enter the Master User Code on the keypad 3. Enter the Optional User Code Memory Location Number 4. Example: 111 5. 3 Rapid Beeps will sound (command accept) 6. Enter the new 3 – 8 Digit Optional Use Code 7. Wait 5 seconds for 3 Rapid Beeps)) (system reset) 8. Test the new Optional User Code 9. If the new code does not work, repeat Steps 1. – 8. 10. Repeat Steps 1. – 8. to add additional Optional Users
Optional User Code 111 Optional User Code 113 Optional User Code 115 Optional User Code 117 Optional User Code 119	**To Delete an Optional User Code** 1. Lock the vehicle with Lock Code 559 2. Enter the Master User Code on the keypad 3. Enter the Optional User Code Memory Location # 4. 3 Rapid Beeps will sound (command accept) 5. Wait 5 seconds for 3 Rapid Beeps (system reset) 6. Test the deleted Optional User Code 7. If the deleted code still works, repeat Steps 1. – 5.
CAN'T START CODE WITH #5	**Note:** One Long Beep indicates an error – allow the system to reset - 2 Rapid Beeps - then proceed to re-enter the required commands

KE-1701 System Setup Programming Commands

Setup	Commands

Change 3/4 Key Function	**Change Auxiliary Output 3/4 to Toggle ON/OFF**
	1. Locate and Press the Programming Switch
	2. 4 Rapid Beeps ☼ will sound (command accept)
	3. Enter 1113 on the keypad
	4. 2 Rapid Beeps ☼ will sound (system reset)
	5. Enter 1 to enable 3/4 Key Output to Toggle ON/OFF
	6. 4 Rapid Beeps ☼ indicates successful mode change
	   Note: 1 long beep indicates error - press 1 again
	7. Test: by entering a valid unlock code followed by pressing the 3/4 Key within 5 seconds of the last key press.
	
	Change Auxiliary Output 3/4 to Momentary
	8. Repeat Steps 1. – 5.
	9. Enter 9 to enable momentary mode (1 second) (default)
	10. Feedback: 4 beeps indicates successful mode change
	   Note: 1 long beep indicates error - press 1 again
	11. Test: by entering a valid unlock code followed by pressing the 3/4 Key within 5 seconds of the last key press.
	
	Note: When either programming command is successfully completed the system will automatically restart to accept and activate the new system setup parameters. On restart the toggle auxiliary Output 3/4 (press the 3/4 Key) will be in the resting, inactive, or OFF state and the alarm output will be ON or armed.

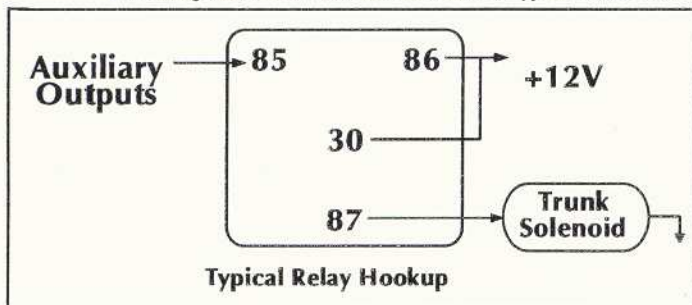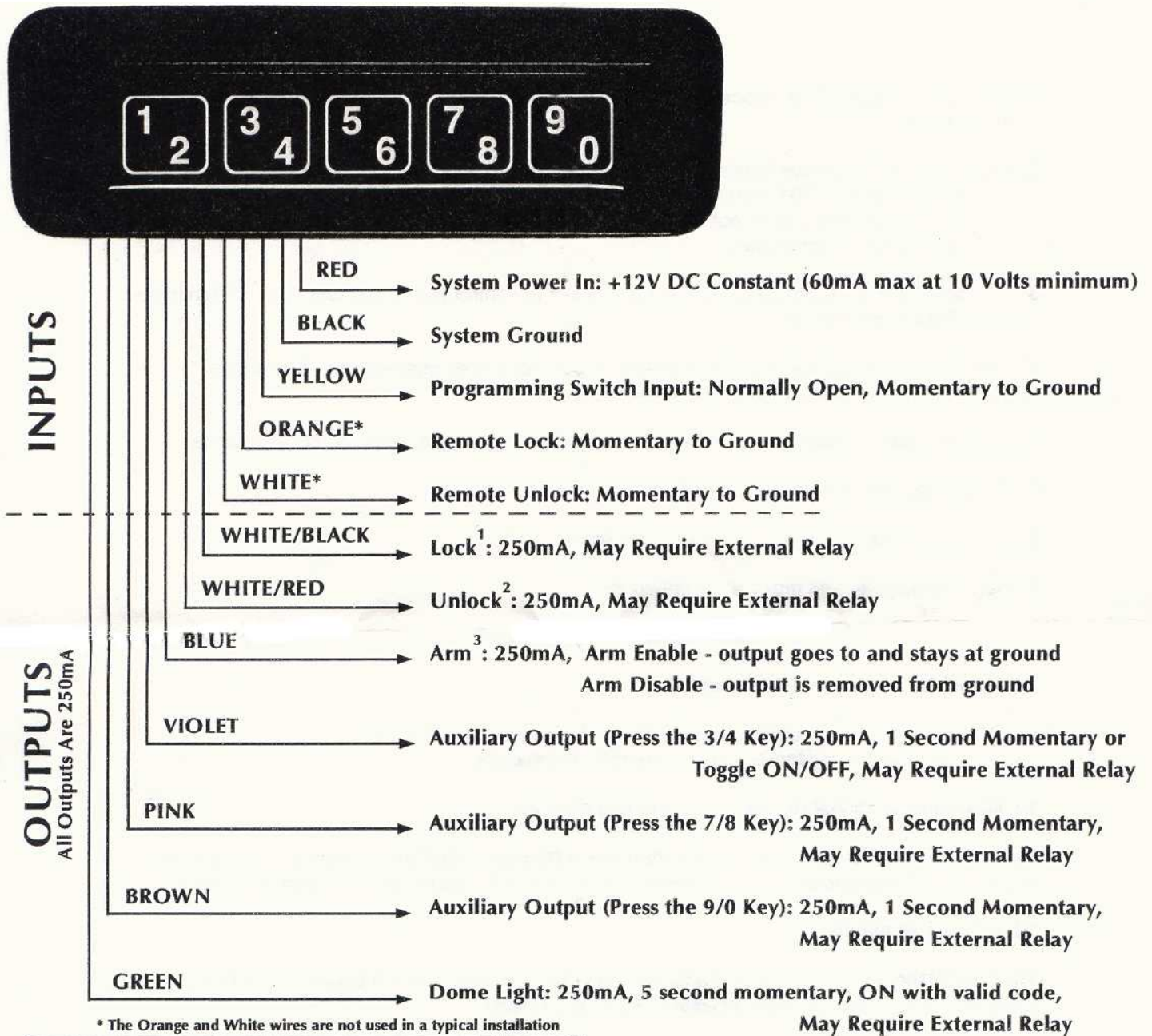| Setup	Commands

Convenience Codes	**Enable 3-Digit Convenience Codes**
	1. Locate and Press the Programming Switch
	2. 4 Rapid Beeps ☼ will sound
	3. Enter 1115 on the keypad
	4. 2 Rapid Beeps ☼ will sound
	5. Enter 1 to Enable Convenience Code Mode
	6. 4 Rapid Beeps ☼ indicates successful mode change
	   Note: 1 long beep indicates error - press 1 again
	7. Using standard procedure, add an Optional User Test Code of more than 3 digits long – Example: 97531
	8. Test: by entering lock code 555 followed by entering the test code 975 should unlock the door. If not, repeat the programming steps.
	9. Delete the Optional User Test Code.
	
	Disable 3-Digit Convenience Codes (Default)
	10. Repeat Steps 1. – 4.
	11. Enter 9 to Disable Convenience Code Mode
	12. 4 Rapid Beeps ☼ indicates successful mode change
	   Note: 1 long beep indicates error - press 9 again
	13. Test: Enter Lock Code 555 followed by a valid User Code longer than 3-Digits. The full length code should be required to unlock the vehicle. If not, repeat the programming steps.

	Note: One Long Beep indicates an error – allow the system to reset - 2 Rapid Beeps ☼ - then proceed to re-enter the required commands

1. Remove door panel and adjacent kick panel to locate power source and control or relay interface points.

2. Measure available power levels under load for sufficient current.
   Note: The KE-1701 requires 60mA at 10 Volts DC minimum (make sure the power source you select does not drop below 10 Volts when actuating the door locks, lights, or other power accessories).

3. Pre install system. Connect to power and connect to control points and test required functions prior to physical installation.

4. Pre select keypad installation location and inspect for proper internal door clearances, customer ease of use and best appearance.

5. If required splice, solder and heat shrink longer cable harness to required control points.

6. Using Essex template make cut-out.

7. Apply generous amount of rust inhibitor to holes.

8. Install the keypad and make all terminations.

9. Install the program switch in a hidden but accessible location.

10. Retest for proper system operation.

11. Change Factory Default Master User Code. Default Code: 1 3 5 7 9
    TIP: Use the customer's phone number as the code.

12. Make any additional required programming changes.

13. Verify keypad to control point cable harness is free from interference with window up/down operation and side impact bags if present. Use cable ties to secure unobstructed cable path.

14. Replace all panels.

15. Place User Guide in glove box after writing in Programming Switch Location and Master User Code in provided spaces (also on User Code Guide Sheet).

INPUTS

RED → System Power In: +12V DC Constant (60mA max at 10 Volts minimum)

BLACK → System Ground

YELLOW → Programming Switch Input: Normally Open, Momentary to Ground

ORANGE* → Remote Lock: Momentary to Ground

WHITE* → Remote Unlock: Momentary to Ground

OUTPUTS
All Outputs Are 250mA

WHITE/BLACK → Lock^1: 250mA, May Require External Relay

WHITE/RED → Unlock^2: 250mA, May Require External Relay

BLUE → Arm^3: 250mA, Arm Enable - output goes to and stays at ground
Arm Disable - output is removed from ground

VIOLET → Auxiliary Output (Press the 3/4 Key): 250mA, 1 Second Momentary or Toggle ON/OFF, May Require External Relay

PINK → Auxiliary Output (Press the 7/8 Key): 250mA, 1 Second Momentary, May Require External Relay

BROWN → Auxiliary Output (Press the 9/0 Key): 250mA, 1 Second Momentary, May Require External Relay

GREEN → Dome Light: 250mA, 5 second momentary, ON with valid code, May Require External Relay

* The Orange and White wires are not used in a typical installation

Auxiliary Outputs → 85   86 → +12V
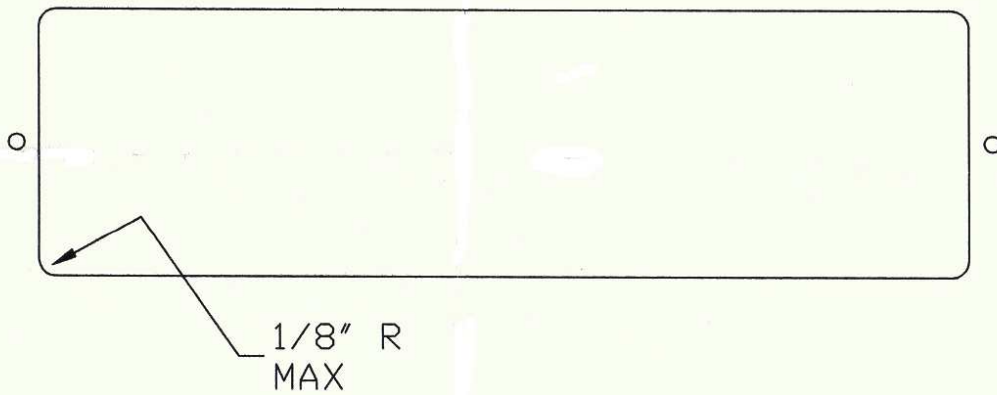
30

87 → Trunk Solenoid

Typical Relay Hookup

1) Lock Code 559: Locks the Door, Arm Enabled, Arms the Keypad
Lock Code 557: Locks the Door and Arms the Alarm
Lock Code 555: Locks the Door and Activates 3 Digit Convenience Codes(if enabled)
2) Any Valid User Code Unlocks the Door and Arm Disabled.
3) Arm Enabled by Lock Codes 559 and 557
Arm Disabled by any valid User Code.

Cut hole 1⅞ X 6⁵⁄₁₆
With   ⅛ R max.
Mounting holes are 6⅝ apart.

DWG. NO.			
REV	DATE	REVISION RECORD	APPD

1/8" R
MAX

TOLERANCES UNLESS OTHER- WISE SPECIFIED DIM'S IN INCHES			
.X ±.030	TITLE TEMPLATE, KE-1700 SERIES		
.XX ±.010	DR: ECHOLS 4/3/03	DWG NO: RTL08	
.XXX ±.005	ENG:		
< ± .5°	APPD:	SCALE:	SHEET 1 OF

NOTES: UNLESS OTHERWISE SPECIFIED

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