

FAI-822

Keyless Entry Kit

Revision 1.0

Shield Tech Security
www.shieldtechsecurity.com

FAI-822

Advanced Keyless Entry System

FB89H

1. Features

- | | |
|----------------------------|--|
| 01. Remote lock and unlock | 02. Code learning [up to 4 remotes] |
| 03. Car finder | 04. Programmable 1sec. or 4sec. lock time |
| 05. Total closure | 06. 2 lights flash outputs [onboard relay + or-] |
| 07. Remote trunk open | 08. Lock and unlock outputs [onboard relay] |
| 09. Manual Pulse | 10. Siren/horn output |

2. Button Function Table

2.01 2-buttons remote

button	Door lock	Door unlock	Ignition on
Button#1 once	lock	lock	lock
Button#1 2 sec	car finder	car finder	
Button#2 once	unlock	unlock	unlock
Button#2 2sec	Trunk release	Trunk release	









2.02 3-buttons remote

button	Door lock	Door unlock	Ignition on
Button#1 once	lock	lock	lock
Button#1 2 sec	car finder	car finder	
Button#2 once	unlock	unlock	unlock
Button#3 2sec	Trunk release	Trunk release	

2.03 4-buttons remote

button	Door lock	Door unlock	Ignition on
Button#1 once	lock	lock	lock
Button#1 2 sec	car finder	car finder	
Button#2 once	unlock	unlock	unlock
Button#3 2sec	Trunk release	Trunk release	

2.04 button definition

button #1				
button #2				
button #3				

3. Code Learning

The remotes have programmed to the system when leaving the factory. If Necessary there are 2 methods to program a new remote to the system as Follows:

- Power on the system
- Lights flash twice
- Within 10 sec., press the onboard switch 6 times **【if 3 or 4-buttons remotes】**
- Within 10 sec., press the onboard switch 3 times **【if 2-buttons remotes】**
- The system enters into the code learning mode and the lights solid on to confirm
- Within 10 sec., press any button of 1st remote
- Lights flash once then solid on again to confirm the 1st remote is programmed to the system
- Follow the same procedure as above to program the 2nd, 3rd and 4th remote and the system will open 10 sec, for the learning of each remote the system will quit the learning mode as follows and the parking lights will be off to confirm
 - *Upon programming 4 remotes to the system
 - *If doing nothing within the 10 sec

The 2nd method of programming the new remote to the system

- Unlock the door by remoting
- Within 20 sec. turn the ignition on ff 5 times then on **【if 3 or 4-buttons remotes】**
- Within 20 sec. turn the ignition on ff 2 times then of **【if 2-buttons remotes】**
- The system enters into code learning mode and the lights will be solid on to confirm
- Within 10 sec. press any button of 1st remote
- Lights will flash once and then solid on again to confirm the 1st remote is programmed To the system
- Follow the same procedure as above to program 2nd, 3rd and 4th remote and the system will open 10 sec. for the learning of each remote
- The system will quit the learning mode as follows and the parking lights will be off to
 - *Turn the ignition off during the code learning
 - *Upon programming 4 remotes to the system
 - *If doing nothing within the 10 sec.

4. System Operation & Installation

4.01 Door lock

- Press **【lock】** button once with ignition off
- Door locks
- Lights flash once
- The siren/horn chirps once
- Then window closure output will be on for 40 sec.
- *If pressing the lock button with ignition on then the window closure output won be

4.02 Door unlock

- Press **【unlock】** button once
- Door unlocks and the parking lights flash twice to confirm
- Lights flash twice
- The siren/horn chirps twice

4.03 Trunk release

- Press **【trunk release】** button for 2 sec, will remote the trunk open

4.04 Car finder

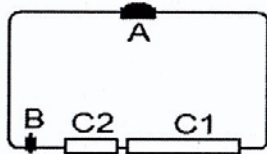
- Press **【car finder】** button for 2 sec. the lights will flash 12 times to draw the attention

4.05 Programming lock and unlock time

- 1 sec. pulse→ put on the onboard jumper
- 4 sec. pulse→ remove the onboard jumper

Please reference the Shield Tech Security Supplemental Wiring Diagram on the last page of this manual.

4.06 Wiring diagram



A=ONBOARD SWITCH
B=ONBOARD JUMPER
C1=9 PIN CONNECTOR
C2=6 PIN CONNECTOR

- C1-1 WHITE -> 10A fused lights flas output
- C1-2 WHITE/RED <- Polarity input for c1-1 & c1-3 [+ or -]
- C1-3 WHITE -> 10A fused lights flash output
- C1-4 RED <-> 5A fused system power +12V
- C1-5 BLACK <-> System ground
- C1-6 BROWN -> Siren/Horn output [1A]
- C1-7 YELLOW <- Ignition input [+]
- C1-8 GRAY/BLACK -> Window closure output [-500mA]
- C1-9 GRAY -> Trunk release output [-500mA]

- C2-1 BLACK - Door lock [-500mA]
- C2-2 GREEN - Door lo [-500mA]
- C2-3 PINK ?Door lock [N.O]
- C2-4 WHITE ?Door unlock [N.C]
- C2-5 BLUE ?Door unlock [COM]
- C2-6 ORANGE ?Door unlock [N.O]

-C1-1 and C1-3 white -> Lights flash outputs [+]

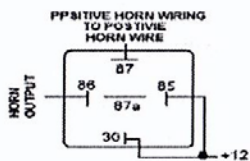
Connect C1-1 and 3 to indicator or parking lights; use both of C1-1 and C1-3
Only if the car requires separated right and left circuits

-C1-2 White/Red -> Polarity input for C1-1 & C1-3 [+ or -]

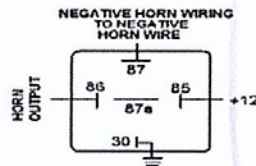
Connect C1-2 to positive or negative depending on the needs of C1-1 & C1-3

-C1-6 Brown -> Siren/Horn output [1A]

An additional relay will be required when connecting this output to the car Horn; see the wiring below.



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-C1-7 Yellow <- Ignition input [+]

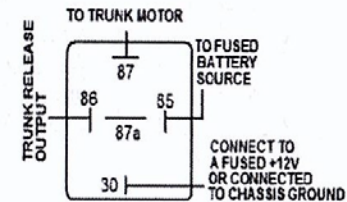
Connect to an ignition wire that shows +12V when the key in both [on] and [start] positions

-C1-8 Gray/Black -> Window closure output [-500mA]

For safety reason, connect this output to the window roll up module with Auto sense feature

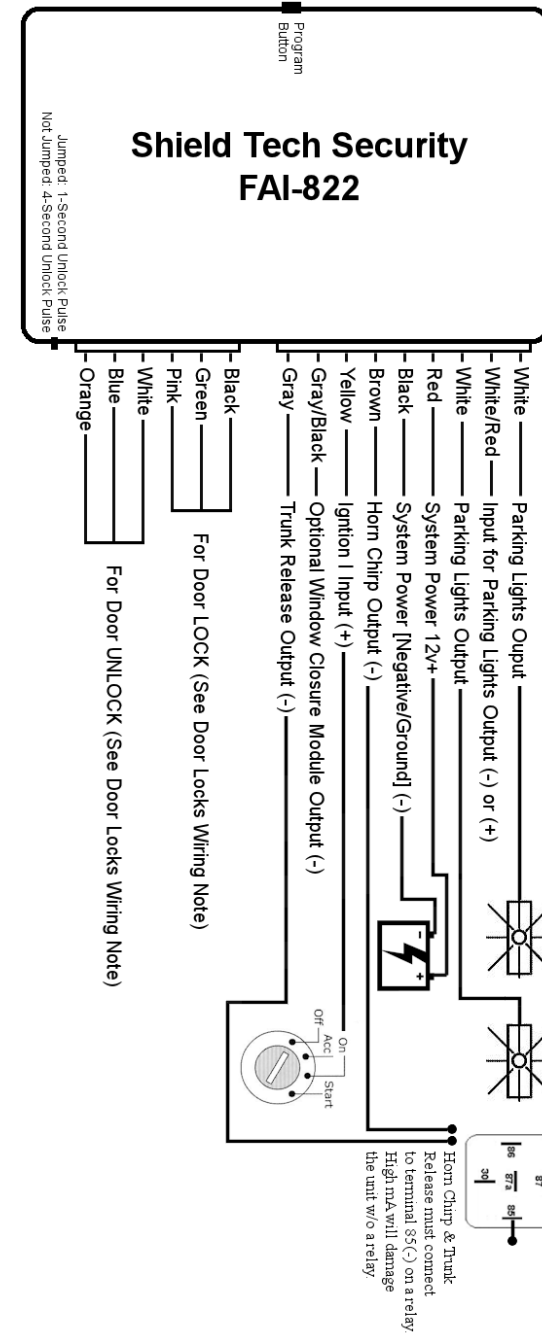
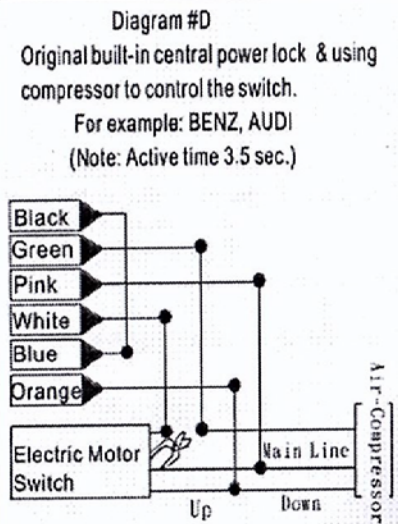
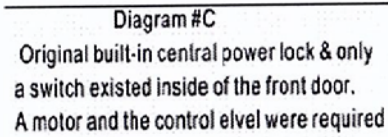
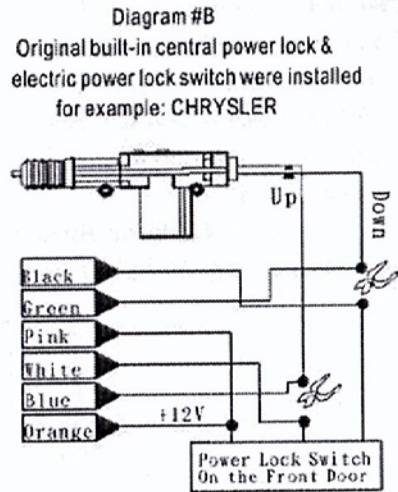
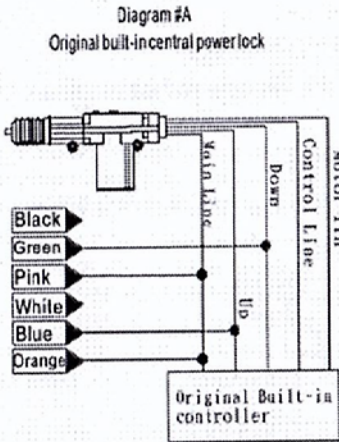
-C1-9 Gray -> Trunk release output [-500mA]

An additional relay will be required when wiring .see the wiring below



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4.07 Lock & unlock wire



Shield Tech Security Supplemental Wiring Diagram