

CS-880 OEM

ALARM UPGRADE FOR FACTORY REMOTE KEYLESS ENTRY SYSTEM

INSTALLATION PRECAUTIONS & WARNINGS

NOTE: This system does not improve or affect the range of the factory remote keyless entry transmitters. This is an ADD-ON system only. The arm/disarm range of this system will be identical to the factory keyless lock/unlock range.

BEFORE BEGINNING, check all vehicle manufacturer cautions and warnings regarding electrical service (AIR BAGS, ABS BRAKES, AND BATTERY).

DO NOT ROUTE ANY WIRING THAT MAY BECOME ENTANGLED with brake, and gas pedals, steering column, or any other moving parts in the vehicle.

SUGGESTED COMPONENT MOUNTING

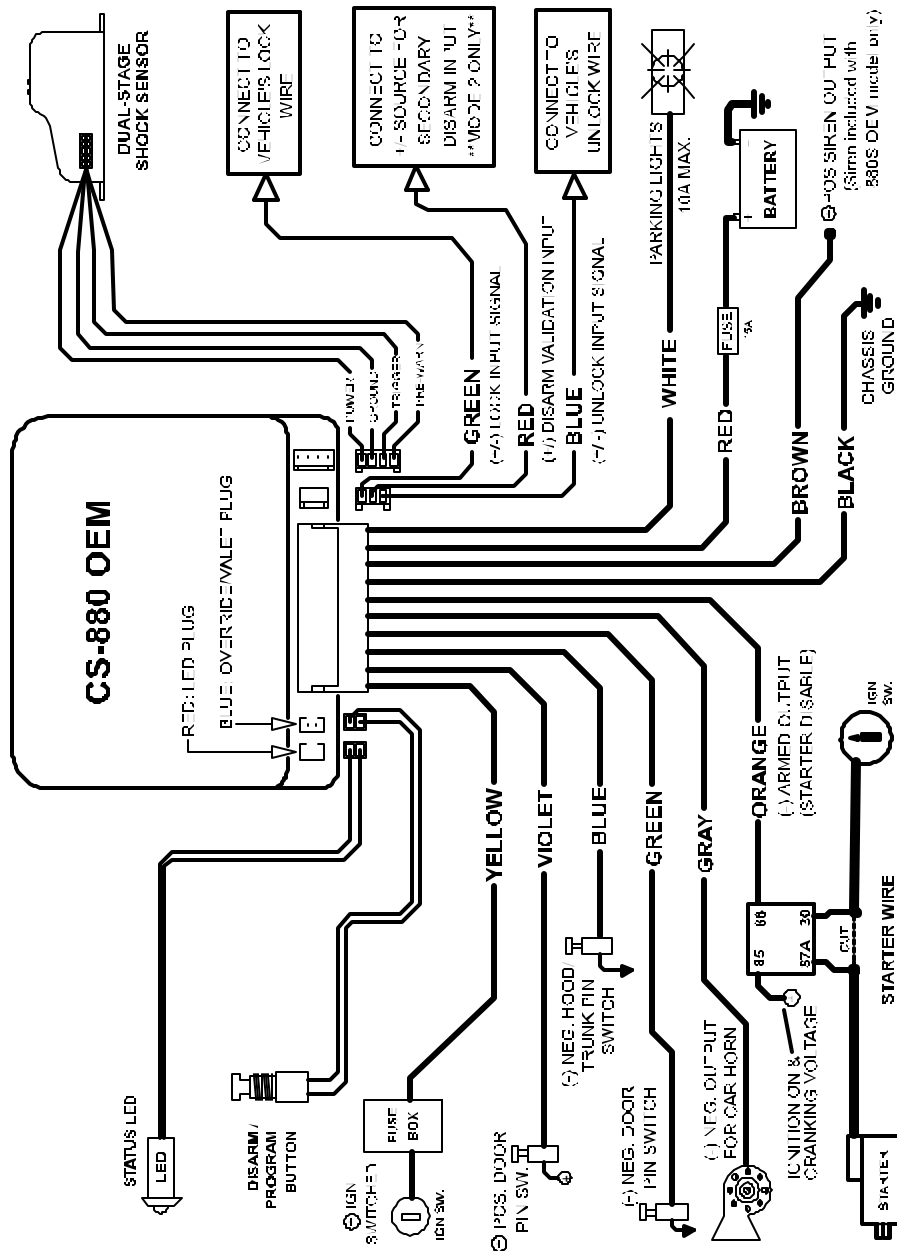
CONTROL MODULE: Underdash Mounting: If you are locating the control unit underdash, Try to conceal module away from any intruders. **DO NOT Mount the control unit or wiring harness where they can become entangled with moving parts such as brake/gas/clutch pedals, or the steering column.**

LED: Mount the red LED in a visible location on the dashboard or console.

Shock Sensor: Mount the included shock sensor with wire ties to an under dash wire harness or fasten a panel.

Disarm/Program Button: Mount the **Override/Program** push-button in a hidden location easily accessible to the user in case the system must be disarmed without the use of the transmitter. This switch is also used to program certain features.

SIREN (CS-880S OEM Model): Mount the siren under the hood to inner fender-well or other body surface with the open end facing downward.



TECH SUPPORT
Mon-Fri 8:00 AM-4:30 PM Pacific Time
(800) 998-6880

WIRING

YELLOW WIRE: IGNITION SWITCHED "ON" AND "START" +12 VOLTS

Connect to an Ignition wire that shows +12 Volts when the key in both "On" and "Start" positions.

VIOLET WIRE: (+) DOOR TRIGGER

Connect to Positive type door circuits that show 12 Volts when a door is opened such as on Ford/Mercury vehicles.

BLUE WIRE: (-) HOOD/TRUNK TRIGGER

This wire is an input trigger for a grounding hood or trunk pin switch. Connect to existing hood and trunk pin switches that read ground when open. If no existing switches are available, new pin switches may be installed. Note: DO NOT mount new pin switches in water pathways.

GREEN WIRE: (-) DOOR TRIGGER

Connect to Negative type door circuits that show Ground when any door is opened and 12 volts when all doors are closed. Some vehicles may have isolated door triggers. In this case you may need to run additional wires from other doors or go directly to the wire at the vehicle's dome light.

GRAY WIRE: (-) VEHICLE HORN HONK/CHIRP OUTPUT (Optional, requires relay)

Connects to terminal 85 of a relay. Connect terminal 86 to +12V Constant. Connect terminal 87 to +12V or ground depending on the type of horn activation circuit in the vehicle. Connect terminal 30 to the horn activation circuit.

ORANGE WIRE: STARTER DISABLE/NEGATIVE ARMED OUTPUT

Ground output when system is armed. This output is used for disabling the starter or to activate other devices such as scanner LED's, window modules, voice modules etc. For starter kill, cut starter wire and connect between 87A and 30 on relay. Connect orange wire to 85 and connect 86 to an Ignition source that has voltage in "ON" and "CRANKING".

BLACK WIRE: SYSTEM CHASSIS GROUND

THIS WIRE MUST BE CONNECTED TO CHASSIS METAL OF THE VEHICLE. Scrape away any paint or dirt from the connection point to ensure a good connection.

BROWN WIRE: (+) SIREN OUTPUT (3 Amp Max.)

Connect to RED siren wire. Siren included with CS-880S OEM

RED WIRE: +12V POWER INPUT (15 amp fuse)

Connect to +12 Volt source with supplied fuse & holder. Recommended location for this connection is at the vehicle battery positive terminal.

OPERATION

PRE-WARNING SHOCK PROTECTION

If a low-level shock to the vehicle body is detected, the pre-warning sensor activates sounding 5 quick siren/horn chirps and 1 light flash. Adjust the shock sensor as needed by turning the control knob clockwise to increase sensitivity and counter-clockwise to decrease sensitivity. To bypass sensor, press Button #3 (Trunk) within 2 Sec. of arming.

EMERGENCY OVERRIDE/DISARM

If the 880 system is armed and you have lost your Factory Keyless Remote or it stops working, you will have to perform an emergency override. Open the door with the key, (this will trip the alarm) turn the ignition on, and press and hold the override/program button about 4 seconds to disarm the system. The system will be in Valet mode until you can repair/replace your remote transmitter.

VALET MODE

To disable the 880 system, turn the ignition on and press and hold the override/program button until the dash LED turns on solid (about 4 seconds). Repeat the process to exit VALET mode. The LED will go out, system will chirp (2) times and the light will flash (2) times when exiting valet mode.

SILENT ARM/DISARM MODES:

The system can be silently armed and disarmed as normal with the Buttons on your Factory Transmitter, but with no siren chirp/horn honk. See alarm programming option (5) to enable or disable this feature.

PASSIVE ARMING MODE

When programmed for Passive (Automatic) Arming the 880 will arm itself 30 Seconds after the ignition is turned off and the last door has been closed. The LED will begin flashing rapidly while counting down. If a door is reopened, the system will wait (LED solid) for the door or zone to close before arming and bypassing it. After 30 seconds or when all entry points close, the unit will arm (1 chirp/1 light flash).

PRIOR INTRUSION ALERT

If the system was tripped in your absence, the dash LED will be flashing two times, then stop, then two flashes. When the system is disarmed you will hear 3 chirps (and 3 light flashes). Carefully inspect your vehicle to see if there is any damage or a theft has occurred.

DEFECTIVE ZONE ALERT/BYPASS

If the system detects a faulty or open zone (Door left open) when the system is armed, the siren will chirp 4 times along with 4 light flashes. The faulty zone will be automatically bypassed.

PROGRAMMING

7. SHOCK SENSOR SETUP/TEST MODE

This option allows easy adjustment and setup for the 880's shock sensor. When set to this mode, simply leave the Ignition in the ON position and begin to produce impacts around various parts of the vehicle. If you are able to product and impact strong enough to trigger the system, via the shock sensor, the unit will produce a chirp/honk. Adjust the sensor as needed. Note that when the siren chirps, it would actually be a full system trigger, not a Pre-Warning.

OPERATION

ARMING

To arm the alarm and lock the doors, press the Lock button of your Factory Keyless Remote Control. The 880 OEM system will sense the Door Lock signal and Arm. The lights will flash once, the siren will chirp on 880S or horn will chirp on 880 model. After a short delay to allow the vehicle and electronics to stabilize, the LED indicator will begin flashing slowly. The Starter will be disabled if the Starter Disable feature is installed. The system is now completely armed and ready to protect the vehicle.

ALARM TRIGGERING – MODE 1

If there is an intrusion into the vehicle or hard impact to the body the alarm will sound (Horn Honk W/880 or Siren W/880S) and flash the lights. After 1 minute, the system will automatically shut off and re-arm to continue to protect the vehicle.

ALARM TRIGGERING – MODE 2

NOTE: *There is a 15 second delay on the horn and flashing light trigger when using MODE 2. For 880 OEM models using ONLY the vehicle horn as a siren, there will be no audible alert until 15 seconds AFTER an alarm trigger. The delay is added for Mode 2 so the unit cannot be disarmed simply by pushing the unlock button in the vehicle if a theft occurs.* After the 15 Second delay the system will go into a full trigger with horn and flashing lights as above in MODE 1.

DISARMING WITH MODE 1 (Factory Default)

To disarm the 880 OEM, press the Unlock button of your Factory Keyless Remote. The 880 OEM system will sense the Door Unlock signal and Disarm. The lights will flash twice, (siren will chirp twice 880S or Horn will chirp will chirp twice-880. The LED will stop flashing.

DISARMING WITH MODE 2

To disarm the 880 OEM, press the Unlock button of your Factory Keyless Remote. The 880 OEM system MUST sense the Door Unlock signal AND the Secondary Validation Input signal before it will disarm. The module WILL NOT disarm if just the unlock signal is sensed as in MODE 1. If BOTH signal are sensed, the unit will disarm.

WIRING

WHITE WIRE: +12V FLASHING PARKING LIGHT OUTPUT (Optional)
Connect to switched parking light wire at back of light switch. If this is not possible, connect directly to one of the parking lights at the front of the vehicle. European vehicles require separate right and left circuits. Use a dual relay or 2 diodes to separate the output signal.

3 PIN DOOR LOCK SIGNAL INPUT PLUG:

GREEN: (+/-) Door Lock Signal INPUT: Connect to Vehicle's (+ or -) Door Lock Wire

RED: (+/-) Disarm Validation Signal INPUT:

Connect to an addition source of Positive or Negative voltage for DISARM Validation. When programmed for MODE 2 "disarm level" (See Programming Section) the 880 OEM module will not disarm unless it senses BOTH an Unlock pulse AND a Validation pulse. (See Programming options 2 & 3.) This INPUT can be connected to the parking light circuit or to the horn circuit if the vehicle's horn honks when unlocking. This wire provides additional protection only when it is connected properly and the programming is configured for MODE 2.

BLUE: (+/-) Door Unlock Signal INPUT: Connect to Vehicle's (+ or -) Door Unlock Wire

2 PIN PLUG (BLUE): PROGRAM/OVERRIDE PUSH BUTTON

2 PIN PLUG (RED): LED INDICATOR (RED FLASHING LIGHT)

*4 PIN SENSOR PLUG:

WHITE WIRE: NEG. WARN AWAY
BLUE WIRE: NEG. TRIGGER
BLACK WIRE SENSOR GROUND
RED WIRE SENSOR +12V POWER

*The Sensor supplied with the system does not require any additional wiring, simply mount the sensor in a suitable location, plug in, and adjust sensitivity.

PROGRAMMING

PROGRAMMABLE OPTIONS

To enter programming mode, turn the ignition on, wait 2 seconds, then press the override/program button 5 times. The siren will chirp (15) times. [This may actually sound like one long siren chirp.] Within the next few seconds, press the override/program button [again] the number of times that corresponds to the feature list below. The siren will chirp and lights will flash once for each button press.

**SEE CHART ON NEXT PAGE FOR OPTION
NUMBERS AND VALUES**

PROGRAMMING

TO TURN A FEATURE ON: Once you are at the desired option number, turn the Ignition key OFF then back ON. After a few seconds, the siren will chirp and the lights will flash once to indicate the feature is ON. (See chart below for feature values)

TO TURN A FEATURE OFF: Once you are at the desired option number, turn the Ignition key OFF/ON/OFF/ON. After a few seconds, the siren will chirp two times and the lights will flash two times to indicate the feature is OFF. (See chart below for feature values)

Option #	Option Description	ON (Default)	OFF
1	(+ or -) Door Lock Input Signal	NEGATIVE	POSITIVE
2	(+ or -) Disarm Validating Input Signal	NEGATIVE	POSITIVE
3	Disarm Level	MODE 1	MODE 2
4	Door Open Warning	25 Seconds	NONE
5	Silent Arm/Disarm	With Chirps	NO Chirps
6	Passive Arming	ON	OFF
7	Shock sensor Test Mode		

OPTION DESCRIPTIONS (SEE CHART ABOVE)

1. DOOR LOCK INPUT SIGNAL:

This option controls whether the unit senses (+) Positive or (-) Negative Lock and Unlock signal to arm and disarm the system. The Factory Default setting is ON (Negative).

2. DISARM VALIDATING INPUT SIGNAL:

This option controls whether the unit senses (+) Positive or (-) Negative Disarm Validating Signal. I.e. Flashing lights, Horn, etc. The validation signal is used for a higher security level when disarming the system. When the 880 is configured for MODE 2 The unit will have to sense an Unlock pulse AND a (+ or -) Validation signal before disarming.

3. DISARM MODE:

This option controls how the system is disarmed.

MODE 1: (Factory Default) This mode allows the system to be disarmed by sensing an (+/-) Unlock pulse. Anytime the Unlock Button on the Factory remote is pressed, the system will disarm. (Triggered or otherwise)

MODE 2: This mode allows the unit to disarm only when the system senses an Unlock Pulse AND a Validation pulse. This is higher security although more wiring is required.

PROGRAMMING

4. DOOR OPEN WARNING

This setting changes the delay time in which the alarm system begins to monitor the Door, Hood, or Trunk Zones. This is helpful on vehicles with a delayed dome light to prevent the alarm from giving warning chirps due to the vehicle's dome light staying on. Factory Default setting is 25 Sec.

5. SILENT ARMING /DISARMING (NO CHIRPS)

With this feature, the system can be programmed to Arm and Disarm without the siren/horn chirp. Flashing parking lights will be the only Arm/Disarm confirmation. The Factory Default setting is OFF.

6. PASSIVE ARMING

This option controls the Passive (Automatic) Arming feature. If ON, arming will occur 30 Seconds after the ignition is turned off and the last door has been closed. The LED will begin flashing rapidly while counting down. If a door is reopened, the system will wait (LED solid) for the door or zone to close before arming. The unit will chirp once and flash the lights once. Doors will lock if passive locking is selected. Factory default setting is ON.

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