

VISION

series

1480

DIGI ∞ LINK SMART

FACTORY KEYLESS UPGRADE SECURITY



Thank you for purchasing this VISION 1480 Vehicle Security System. The 1480 is a state of the art device that will provide you with years of trouble free service if used properly. Please familiarize yourself with the content of this Owner's Guide to get the most out of your new system. We trust you will enjoy using the product.

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NOTICE! Although reasonable efforts have been taken to ensure accuracy in this Owner's Guide, Kiramek Inc. shall not be held liable for any errors, omissions, property damage, or injury resulting from the use of this information.

All product specifications and features are subject to change without notice.

LIMITED LIFETIME WARRANTY

The VISION 1480 **Control Module** is backed by a limited lifetime warranty against defective components and/or improper product assembly to the original purchaser for as long the vehicle is owned by that same purchaser, contingent upon installation by an Authorized VISION Dealer. All product warranties become void if the VISION 1480 system was not sold and installed by an Authorized VISION Dealer or the system is moved to another vehicle. **All other parts and/or accessories** that connect to VISION 1480 systems, including but not limited to the Siren, Shock Sensor and LED Program Switch, are warranted for one (1) year from the original date of purchase.

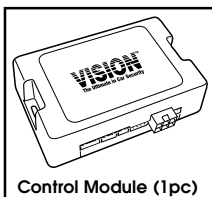
During the warranty period, Kiramek Inc. will repair or replace, at its sole discretion, any system component that is found defective in material or assembly during the warranty period, provided that the product is returned to Kiramek Inc. by an Authorized VISION Dealer and is accompanied by a clear and legible copy of the original purchaser's receipt. Any damage to your VISION 1480 system that results from normal wear-and-tear, accidents, improper use, neglect, faulty wiring, incorrect installation, modification, removal or defacement of the product serial number, alteration or repair outside Kiramek Inc or its Authorized VISION Dealers immediately voids this warranty.

This warranty is limited to defective parts only and does not provide any compensation whatsoever for damages associated with the VISION 1480 system or its accessories. This warranty does not cover installation labor, product removal and/or reinstallation fees. This warranty is valid for the original purchaser only and may not be transferred to another party. Kiramek Inc makes no warranty against theft or vandalism of the vehicle in which the VISION 1480 system was installed. This warranty shall not be interpreted as an insurance policy against loss, nor shall Kiramek Inc be liable any in way for such loss, financial or otherwise.

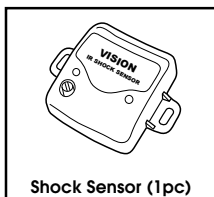
⚠ WARNING! DO NOT ATTEMPT TO INSTALL THIS VISION 1480 PRODUCT YOURSELF BECAUSE SUCH WILL IMMEDIATELY VOID THE WARRANTY. THIS SECURITY SYSTEM MUST BE PROFESSIONALLY INSTALLED BY YOUR AUTHORIZED VISION DEALER TO VALIDATE YOUR WARRANTY.

KIRAMEK may opt to validate the above Warranty, in writing, for shipments outside Japan, in cases where there is no local VISION Dealer available to perform the install.

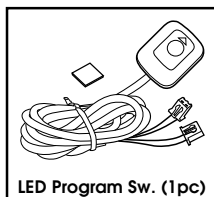
INCLUDED ITEMS



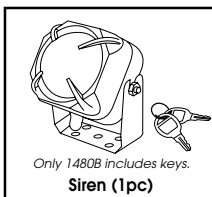
Control Module (1pc)



Shock Sensor (1pc)

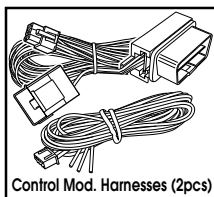


LED Program Sw. (1pc)

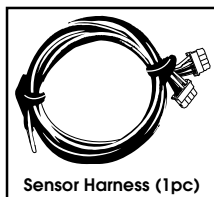


Only 1480B includes keys.

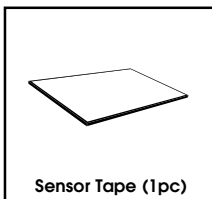
Siren (1pc)



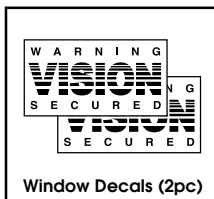
Control Mod. Harnesses (2pcs)



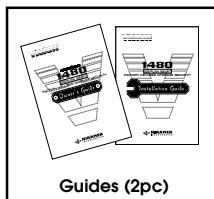
Sensor Harness (1pc)



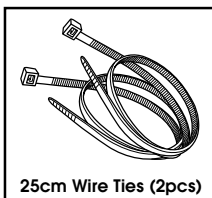
Sensor Tape (1pc)



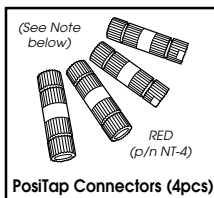
Window Decals (2pc)



Guides (2pc)



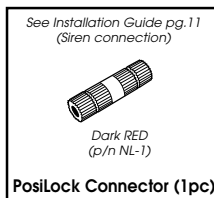
25cm Wire Ties (2pcs)



(See Note below)

RED
(p/n NT-4)

PosiTap Connectors (4pcs)



See Installation Guide pg.11
(Siren connection)

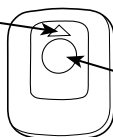
Dark RED
(p/n NL-1)

PosiLock Connector (1pc)

NOTE: 4 PosiTap connectors are *not* included when ordering the 1480 with an optional OB-22 or OB-23 OBD splitter harness because they are not needed. But 1 PosiLock connector is always included for the siren.

LED Program Switch Parts

Status LED



Program Switch

ARMING & DISARMING

ARMING

NORMAL ARMING

Close all doors and then **LOCK** by your factory keyless remote or by SmartKey door handle touch. Hazard lights will flash, doors will lock, and the siren will chirp 1 time (if Confirmation Chirps are ON). The Status LED will light for 5s, during which time all triggers are disabled. Then the Status LED will start flashing and Ignition, Door, Trunk and Hood triggers become enabled. The Shock Sensor (and any other *external* sensor) is enabled 5s after the LED starts flashing (10s after you Lock).

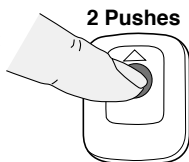


SENSOR BYPASS ARMING



This procedure lets you temporarily disable the Shock Sensor for a single Arming session:

- 1) With Ignition OFF, press the Program Switch ***twice***.
- 2) Within 20s, press **LOCK** on the factory remote to Arm.



The siren will chirp 2 times, and all triggers (door, IG, etc.) will be active except the shock sensor and any other external sensors. Note that when you Disarm and then Arm again normally, the shock sensor will be enabled.

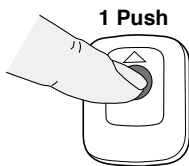
CONFIRMATION CHIRPS (ON by default)

PROGRAMMABLE



This procedure lets you enable or disable the Arm/Disarm chirps. (Note that the siren will still go off when the 1480 is triggered.)

- 1) With Ignition OFF, press the Program Switch ***once***.
- 2) Within 20s, press **LOCK** on the factory remote to Arm.



The confirmation chirp state has now toggled and the system is Armed. Repeat the above procedure to toggle the confirmation chirp state back again.

DISARMING **NORMAL DISARMING**

UNLOCK by your factory keyless remote or by **SmartKey door handle touch**. Vehicle hazard lights will then flash, doors will unlock, the siren will chirp 3 times (if Confirmation Chirps are ON), and the Status LED will turn off. The 1480 is now Disarmed and you may enter the vehicle.



If the siren chirps 4 times when you Disarm, it means something had triggered while you were away from the vehicle. In this case, the Status LED will flash to tell you what caused the trigger (see Trigger Memory, page 9).

**NOTE**

Some vehicles equipped with remote engine starters do not allow you to Unlock while the engine is running. In such a case, you will not be able to Disarm the 1480 until you shut off the engine.

DISARMING DURING THE SIREN BLAST

If the siren is triggered by the opening of a door or the back hatch, you should close any open doors or the back hatch before you press Unlock on your factory remote to disarm. The reason is because some cars require doors to be closed before you can Unlock with the factory keyless remote.

Also, if the siren is blasting and the doors are already unlocked, you may not be able to Disarm the 1480 with a simple press of Unlock. In such a case, you will need to *first press Lock* and then press Unlock to Disarm. This is also true in cases where the car's factory remote only has a single Lock/Unlock button—you'll have to push the button twice.

MANUAL DISARMING



You can *manually* Disarm using a secure code in the event your factory remote's battery dies (see Note 2 below). The factory set code is "6", but you can change this code to another number of your choosing for greater security (see the bottom of this page).

- 1) **Enter the car.** (*The siren will go off. You can leave the door open or closed.*)
- 2) **Turn ON the Ignition.**
- 3) **Within 30s, press the Program Switch the same number of times as your Disarm Code.** (*Factory Default Code = 6*)
- 4) **Turn OFF the Ignition.** (*The 1480 will now Disarm and the siren will stop. NOTE: You must press UNLOCK and then press LOCK to Arm.*)



NOTES

- 1) If the 1480 won't Disarm, you entered the code incorrectly. Close the door, wait for the siren to stop, then start over from Step-1.
- 2) Many Push Start cars don't allow the Ignition to be turned on without the presence of the Factory Remote. So if you lose or destroy your car's remote, you may not be able to Manually Disarm the 1480. But if your remote's battery merely dies, you will be able to switch on the Ignition and Manually Disarm using the 4 steps above.

DISARM CODE CUSTOMIZATION

PROGRAMMABLE



The factory code is "6" but you should change it to another number between 1 & 30:

- 1) With the 1480 *Disarmed*, turn ON the Ignition.
- 2) Press the Program Switch for 6s, after which the siren will chirp 3 times.
- 3) Release the Program Switch and turn OFF the Ignition. The Status LED will light for 5s.
- 4) Turn ON the Ignition again (while the LED remains lit for 5s).
- 5) When the LED turns off, wait about 4s and you will see the LED start to flash. ***Take note of the flashes as the number of flashes will be the number of your Disarm Code.*** Turn OFF the Ignition to program your code.

The LED will now flash the same number of times as your Disarm Code.

 If you have the optional paging system, you must now relearn your pagers.

TRUNK RELEASE BYPASS

For cars that support it, pressing the Trunk Release button on the factory remote will bypass the shock sensor and trunk triggers while the trunk opens. Door and Ignition switch triggers remain active, and doors remain locked. Five (5) seconds after you close the trunk, the shock sensor and trunk triggers will be automatically re-activated.



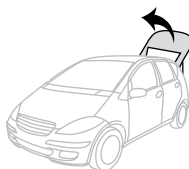
NOTE

Some cars don't support the automatic trigger bypass feature of the 1480. In such cases you will need to first Unlock/Disarm before you can use your factory Trunk Release feature (otherwise the siren will trigger).

TRUNK TRIGGER



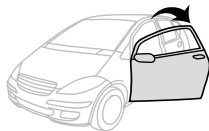
The siren will blast for 30s when the trunk is opened (without the remote) while the system is Armed. Vehicle hazard lights may also flash. See bottom half of pg.4 on Disarming in this case. Also see Table-1, pg.9.



DOOR TRIGGER



The siren will blast for 30s when any door is opened while the system is Armed. Vehicle hazard lights may also flash. See bottom half of page 4 on how to Disarm in this case. Also see Table-1, pg.9.



2-STAGE SHOCK SENSOR



1st Stage ("Warning Chirps"). Each time the Shock Sensor detects a light impact to the vehicle body, the siren will chirp 5 times. Sensors will not trigger the siren while in Sensor Bypass Mode.

5 Chirps



2nd Stage ("Full Trigger"). When the Shock Sensor detects a hard impact to the vehicle body, the siren will blast for 30s (or until Disarmed with the factory remote). Sensors will not trigger the siren while in Sensor Bypass Mode. Also see Table-1, pg.9.

30s Blast



See page 15 for common shock sensor problems and solutions.

IGNITION TRIGGER



PROGRAMMABLE



IG PROTECT MODE (default)

The siren will blast for 30 seconds when the Ignition (IG) switches ON while the system is Armed. Vehicle hazard lights may flash. *(To Disarm and stop the siren, turn off the Ignition and then press Unlock on the factory remote.)*



REMOTE START COMPATIBILITY MODE (RSCM) (user-programmable)

When the Ignition switches ON while Armed in this mode, the siren will not trigger. Instead, Shock Sensor and Ignition triggers are bypassed, while Door, Hood & Trunk triggers remain active. This allows 3rd party remote starters to start the engine without triggering the siren. The vehicle is still protected though, and any attempt to open a door or the trunk will trigger the siren. And when the remote starter stops the engine (i.e., Ignition turns off), Sensor and Ignition triggers are automatically re-activated. *(See page 11 to program.)*



IIP (Intelligent Ignition Protect)

IIP activates when you program **RSCM**. The function of IIP is to temporarily switch back to **IG Protect Mode** after a siren trigger.

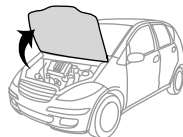
Purpose. Most “remote start / turbo timer” compatible car alarms bypass all trigger inputs *after* the Ignition is switched ON. So if a thief opens a door the siren will trigger; but the thief can then close the door, turn on the Ignition, wait until the siren stops, then drive away in silence because the Ignition-ON state prevents the siren from triggering again! And other car alarms that *always* trigger the siren when the Ignition turns on offer no remote start or turbo timer compatibility at all. ***IIP solves this problem by offering compatibility with Remote Start & Turbo Timers, with complete security.***

How it works. Normally, if the Ignition is turned ON while in **RSCM**, the system automatically bypasses the Sensor & Ignition triggers but keeps Door, Hood and Trunk triggers active. But if the 1480 is triggered by a Door or Sensor *before* the Ignition is turned ON, IIP automatically switches back to **IG Protect Mode**, and the siren will be triggered if the Ignition is turned on. Disarming and Arming again will revert to RSCM.

HOOD TRIGGER



On compatible vehicles (or on any vehicle when the optional analog Hood input is connected), the siren will blast for 30 seconds when the hood is opened while the system is Armed. Vehicle hazard lights may also flash.



ERROR CHIRP



If a Door or the Trunk is open when you Lock/Arm, you will hear 1 chirp (only if Confirmation Chirps are ON) followed by **2 chirps** (even if Confirmation Chirps are OFF). The 2 chirps are Error Chirps that notify you the doors or the trunk will be bypassed because they are opened (they won't trigger the siren). Then 5s after you close the door(s) or trunk, they can then trigger the siren if later opened. *You will only hear Error Chirps on cars that allow Lock/Unlock while the doors and/or trunk are open.*

GWA (Ground When Armed)



The 1480 feeds a (–) Ground output while the system is Armed. Optional devices can be activated by this control line, such as a Starter Kill Immobilizer Relay or LED scanners. When the system is Disarmed, GWA is switched OFF and all attached devices turn off. *See the **Installation Guide** for electrical specifications.*



SBS (Sector Bypass System)



A “sector” is the Ignition, the Hood, any Door, and attached Sensors. When a sector triggers the siren a certain number of times (see below), that sector is bypassed (disabled) until you Disarm and Arm again. This limits noise pollution caused by multiple siren triggers in a short period of time (such as when you park near construction sites or if animals jump on the vehicle repeatedly).



DOOR — If a Door is left OPEN, the siren blasts up to **5 times** (30s each time), then the Doors are bypassed until closed. (*The **HOOD**, via the **GRAY** input wire, is bypassed after it triggers the siren 10 times.*)

IGNITION — If the Ignition is left ON, the siren blasts up to **10 times** (30s each time) and then the Ignition is bypassed until you Disarm & Arm again.

SENSOR — **Warning triggers** (5 chirps) and **Full Triggers** (30s siren) are independently bypassed after **10 times**. You must Disarm and then Arm again to re-activate.

STATUS LED



The Status LED flashes *slowly* about once per second while the system is Armed, acting as a visual theft deterrent. The LED turns off when the system is Disarmed, unless there was a siren trigger.

TRIGGER MEMORY



The LED flashes *rapidly* while the full siren blast is going off and keeps flashing rapidly even after the siren stops. When you Disarm, the Status LED will change its flashing pattern according to

Table-1 below, showing you what triggered the siren.

If the siren triggered more than once, the LED will show you what caused the last 3 triggers. Trigger Memory will displayed repeatedly on the LED until the Ignition is switched ON or until you Arm again.

TABLE-1 Status LED Trigger Memory	
LED Flashes	What Triggered the Siren
2	Door
3	Trunk (or back hatch)
4	Hood (see Note below)
6	Ignition
7	Sensor (Full Trigger only)
There are no LED Flashes if the power is cut and then restored.	



NOTE

On most cars, Hood triggers detected by CAN-BUS actually report as Door triggers. If you want Hood triggers to always report as Hood triggers on the Status LED (and on the Optional LCD Paging System), you will need to purchase an optional Hood Pin Switch and have it installed in the engine compartment (see the Install Guide for more info). Also see the bottom entry on page 15 for more details about Hood trigger reporting.

HAZARD FLASH



For cars that support it via CAN-BUS, vehicle Hazard lights will flash for the entire 30s duration of full siren triggers, and Hazards will flash 2-5 times (depending on the car) when shock sensor Warning Chirps are triggered. But note that some cars do not support Hazard flashing at all.

RESUME



RESUME is a form of State Memory that remembers if the system was Armed or Disarmed when the main power is cut. When power is restored, the 1480 will power-up Disarmed if it was disarmed in its previous state. If originally Armed, it will power-up Armed and with the siren blaring.

Valet Mode

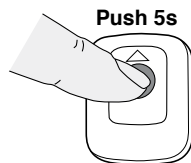


PROGRAMMABLE



Valet mode shuts down all functions of the security system, ensuring the siren will never trigger. Valet Mode is useful when you must hand over your car keys to a valet or car maintenance technician, so there is no worry they will trigger the siren by accident.

Activation: With the Ignition switched OFF and the 1480 Disarmed, press and hold the Program Switch for more than 5s. (When you first press the switch, the LED will immediately light. But the LED will turn OFF after about 5s.) When the LED turns OFF, release the Program Switch.



Deactivation: Press and hold the Program Switch again for 5s, until the LED turns OFF. Security features are now restored. (You may also hear 2 quick chirps the first time you Arm, to inform you that you have just exited Valet Mode.)



CAUTION!

When you activate Valet Mode, the Status LED will not blink and you will not receive any indication of being in Valet Mode. The security system will be completely turned off. This also means that someone could break into your car. Our company accepts no liability whatsoever if your car is stolen or vandalized or its contents stolen due to your having entered Valet Mode. You use this feature at your own security risk.

PROGRAMMABLE FEATURES



You can change some features of the 1480 by using the Program Switch. Perform the following **4-step procedure** to change the features shown in **Table-2**:

1. Start the engine and then Stop the engine.
2. With the Ignition OFF, Arm the 1480 and then immediately Disarm.
3. Within 20s, turn ON the Ignition. (*LED will flash if a door is open.*)
4. Press the Program Switch the same number of times as the feature you want to program — refer to the “No.” column in **Table-2** below. (*For example, to toggle “Auto Arm,” push the Program Switch 8 times.*)
5. Turn OFF the Ignition. (*The LED will flash the same number of times as the feature you just toggled. There is no “Toggle Setting” indication, so test to confirm your programming.*)



NOTES

- 1) To program another feature, repeat the 5 steps above.
- 2) To reset everything to factory defaults, perform the **CAN Signal Learning** procedure on page 14 of the Installation Guide. But be sure to read the “NOTE” there first.

TABLE-2		Feature Selection Menu	
No.	Feature Description	Toggle Settings	
3	Ignition Trigger	IG Protect	RSCM
4	Hazard Flash During Remote Start	OFF	ON
7	Door Ajar Hazard Flash	OFF	ON
8	Auto Arm	OFF	ON
9	Siren Output	Continuous	Pulsed
10	Auto Rearm	OFF	ON
15	Speed Controlled Door Locking	OFF	ON
17	Exterior Illumination	OFF	ON
FACTORY DEFAULT SETTINGS SHOWN IN BOLD TEXT ABOVE			

3 Ignition Trigger **You cannot Arm if IG is ON in IG Protect Mode**

When set to **IG Protect Mode** (default), the system will trigger the siren when the Ignition (IG) turns ON while Armed, as described on page 7.

When set to **RSCM (Remote Start Compatibility Mode)**, the system will bypass the Shock Sensor and Ignition triggers when the Ignition turns ON while Armed, as described on page 7.

4 Hazard Flash During Remote Start

When set to **ON**, hazard lights will flash for safety while the Ignition is turned on by a remote start system. *(This feature only works if program the Ignition Trigger to RSCM.)*

7 Door Ajar Hazard Flash

When set to **ON**, vehicle hazard lights will flash for safety whenever a door is opened or left open while the Ignition is turned ON. Flashing will immediately stop when the door is closed or the Ignition switched OFF.

NOTE: *The Status LED will always flash when the Ignition is ON and a door open, in order to notify the driver. This LED flashing cannot be disabled.*

8 Auto Arm

This feature automatically Arms the system when you do the following: (1) turn Ignition ON & OFF then (2) Open & Close any Door. Upon seeing these events, the system will Arm 20s after the last door is closed. The doors will NOT be locked so you won't be locked out if you leave your keys in the car, but the system will be Armed and will trigger if a door is opened.

9 Siren Output

When set to **Continuous** (default), the system will feed a continuous (+)12v output to sound the included siren for 30s (Full Trigger).

When set to **Pulsed**, the system will feed a pulsed (+)12v (3A max.) output. This can be used to create a unique siren sound with the included siren (if you cut the Blue loop wire on the siren), or used when connecting to the vehicle's horn by an optional relay.

10 Auto Rearm



This feature automatically Rearms the system 60s after it is Disarmed, unless a Door is opened or the Ignition goes ON during the 60s. Doors will be locked when the system Rearms.



NOTE

Many cars have a relock feature — if you Unlock with your factory remote, the car will automatically relock the doors after some time has elapsed, if no door has been opened. If your car has auto relock and if the 1480 Arms on relock, then you do not need to enable Auto Rearm.

15 Speed Controlled Door Locking



When set to **ON**, the Doors will Auto-Lock when the vehicle speed reaches 30km/h (19mph). And when you stop the car and put the gear back into the P (Park) position, the Doors will Auto-Unlock.



NOTES

1) If after Auto-Lock (after exceeding 30km/h) someone then Unlocks the doors manually, they will not Auto-Lock a second time. And because they are already Unlocked in such a case, putting the gear into the “P” position will not Auto-Unlock.

2) In some rare cases, when the doors are Auto-Locked or Auto-Unlocked, there may be a second or two of noise appear on your in-dash TV. This noise has nothing to do with the 1480 product or 1480 product installation. This is noise generated by your car’s door lock motors.

17 Exterior Illumination



When set to **ON**, vehicle Hazard lights will *flash* for 30s, or until a Door is opened or until the Ignition is switched ON, in order to illuminate the area around the vehicle for greater visibility and security.

FACTORY KEYLESS REMOTE WAS LOST, DISARMING

If the factory remote was lost, you may not be able to Disarm if you have a Push Start car that requires the factory remote to turn on the Ignition. In such a case, you must to contact your dealer for a replacement factory remote. But if you have an older turn-to-crank style Ignition, you can Disarm the 1480 by following Manual Disarming on page 5.

SOMETIMES CAN'T ARM/DISARM WITH THE FACTORY REMOTE

- On some cars, if you rapidly press Lock and Unlock on the factory remote, the 1480 may stop responding to the remote. In this case the fix is simple — *just wait longer between Lock and Unlock presses.*
- If Confirmation Chirps (pg.3) are enabled, did you hear a single siren chip when you tried to Arm? If not, the Ignition may be ON. You cannot Arm the system while the Ignition is ON while in IG Protect Mode (see the top of page 12).

THE SYSTEM IS DEFINITELY ARMED, BUT IT WON'T TRIGGER THE SIREN!

- It may be in Valet Mode. See page 10.
- It may be in Sensor Bypass Mode. See page 3.

SIREN BLASTS WHEN THE TRUNK IS OPENED

- You cannot open the trunk with the key or the siren will sound. Use your factory remote. If your keyless remote doesn't have a trunk open feature, then you need to Disarm the system first (Unlock button on your factory remote) and then open the trunk.
- If you open the trunk with your factory remote and the siren triggers, it could be the trunk release timing is too long. After pressing Trunk Release on your factory remote, the trunk must open within 2s or the siren will sound.
- Some cars simply have a trunk release feature that is *incompatible* with the 1480. In this case, first Unlock/Disarm, *then* open the trunk.

CANNOT ARM WHILE 3rd PARTY TURBO TIMER IS IN USE

- Check if the doors Lock/Unlock by your factory remote while the turbo timer is running. If not, the vehicle's factory keyless system is incompatible with your turbo timer, which is why you cannot Arm the 1480.
- If the doors do Lock/Unlock with your factory remote while the turbo timer is running, then make sure you have programmed RSCM (pg.11). If you are using the default "IG Protect Mode," you will not be able to Arm while the Turbo Timer is running because the Ignition ON condition in that mode prevents Arming.

CANNOT DISARM WHILE THE SIREN IS SOUNDING

- Ensure all doors & trunk are closed, then try to Unlock to Disarm.
- Try Locking first, then Unlock.

SHOCK SENSOR 1st STAGE “WARNING” TRIGGER DOESN'T WORK

Examine the shock sensor and look closely at the two LEDs.

When you lightly tap on the sensor, do you ever see a Green LED light?

- If you never see Green light, adjust the sensitivity knob on the sensor.
- If after increasing sensitivity you still don't see the Green LED, it could be that the suspended element inside the sensor body was shifted out of place. See page 15 in the **Install Guide** on how to resolve this.
- If you do see a Green light, the sensor is functioning properly. That means there is like a wiring problem. Check that the sensor wire harness is properly connected at both ends.

FULL SIREN BLASTS WITH ONLY LIGHT IMPACT TO THE VEHICLE

- You mounted the shock sensor to metal. Remount on a plastic part.
- Turn down the shock sensor sensitivity.
- If you added an optional Ultrasonic sensor, it is very likely that the *controller* of the ultrasonic sensor (not the emitters) was placed too close to the shock sensor. The Ultrasonic sensor's *controller* should be placed more than 30cm (1 foot) away from the shock sensor to avoid interference.

HOOD TRIGGERS SIREN BUT TRIGGER MEMORY REPORTS DOOR & HOOD

Some Mercedes and BMW cars send a digital “door open” message on the CAN when the Hood is opened. On these cars, if the 1480 is Armed, the siren will trigger when the Hood is opened, even if the 1480's Gray wire is not connected to an optional Hood pin switch. But in this case, Trigger Memory will report a Door Open trigger, not a Hood trigger.

However, if you purchase an optional pin switch and connect the 1480's Gray wire to it, Hood triggers will then report as both a Hood and a Door trigger on the Status LED on some Mercedes and BMWs. You may also see the Door and Hood icons on the LCD pager, if you purchase the optional Paging System.

On cars where there is no digital CAN message sent when the Hood is opened, a Hood open condition will not trigger the siren on those cars unless you purchase an optional Hood pin switch and connect the 1480's gray wire to it. In this case, Trigger Memory and the LCD Pager will report only a Hood trigger via the Gray wire.

The 1480 can be installed in your car without the need for any Options. However, we do offer the following add-on products to enhance security and convenience:

TR537S: 2-way LCD RF Paging Control System (ARIB-T67, for Japan)

or

TR835S: 2-way LCD RF Paging Control System (FCC, for USA)

896H-1B: Starter Kill Relay

896H-1CN: Relay to drive high-current devices like the Horn.

S-114R or S-113: Pin switch to detect Hood opening.

OB-22 or OB-23: OBD splitter harnesses – useful for simply hiding the 1480's OBD connection (OB-22) or hiding the connection AND adding a 3rd party OBD device (OB-23). *Some 3rd party OBD devices may be incompatible with the 1480. Contact KIRAMEK for details.*

Optional Sensors:

- **MMF-2:** 2-stage Radar Sensor
- **KST-24:** 2-stage Digital Tilt Sensor
- **SB-03:** Sensor Splitter to easily connect up to 3 sensors at once

Luminator® LED Scanners – visual theft deterrents

More details about add-on devices can be found on our website:
www.visionsecurity.jp/en/



VISION products are engineered in Japan and manufactured in strict accordance with Japanese QC standards at an ISO9000/ QS9000 certified factory.

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VISION

series

1480

DIGI ∞ LINK SMART

FACTORY KEYLESS UPGRADE SECURITY





INSTALLERS, READ THIS MANUAL THOROUGHLY!

The 1480 must be connected by an experienced VISION installer. All product warranties immediately become void if the 1480 is not installed by an authorized dealer.

If you acquired this product *without* professional installation, DO NOT install it yourself to save a little money at the risk of damaging your vehicle or causing physical injury.

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⚠ NOTE: Consult Owner's Guide page 11 for Feature Programming.

NOTICE! Although reasonable efforts have been taken to ensure accuracy in this Analog Install Guide, Kiramek Inc. shall not be held liable for any errors, omissions, property damage, or injury resulting from the use of this information.

All product specifications and features are subject to change without notice.

PRECAUTIONS & SAFETY

⚠ OPERATION. Use of the 1480 outside its intended purpose, as described in this Install Guide and the 1480 Owner's Guide, could result in damage to the vehicle or surrounding property, or cause serious injury or even death. As the installer of this security system, it is your responsibility to ensure that the vehicle owner is properly informed of all the details of your installation which are pertinent to safety.

⚠ SAFETY POINTS TO ABIDE BY:

1. Never start the vehicle's engine in enclosed spaces that lack adequate ventilation. Extended exposure to carbon monoxide exhaust fumes can result in death!
2. Do not disconnect the vehicle's battery, as it could cause serious problems with airbag systems, anti-theft radios or vehicle diagnostics. If you absolutely must disconnect the vehicle's battery, first disconnect the main power wiring harness of the 1480 and then disconnect the vehicle's battery.
3. Do not proceed with installing this system in vehicles that do not have a 12-volt electrical system. This system will not function in 24-volt trucks, and any damage resulting from such installation shall be the sole responsibility of the installer.
4. Do not install the 1480 control module or associated sensors in or near water, or in a location where water could gather. The 1480 is not waterproof and an electrical short could occur if water gets inside. *Only the siren can safely be installed in the engine compartment.*
5. Do not install the 1480 control module in an environment of intense condensing humidity or steam, in an area with an unusually large number of airborne particles, or any place where oil could build up inside the control module case. All of these extreme environments could lead to an electrical short and possible cause a fire.
6. Avoid installing the 1480 and its associated sensors near sources of intense RF transmissions which could possibly interfere with the operation of the system. If you find the system is randomly working and not working, consider relocating any attached sensors.

INSTALLATION TIPS

Steps Toward a Professional Installation:

- Ensure all electrical contacts cannot easily break by tugging on the wires. If not using the 1480's OBD plug, cut off the plug and use the included 4 PosiTap connectors (RED) to directly connect to vehicle's CAN & Power wires, or use an optional OB-22 or OB-23 splitter harness. Use the included PosiLock connector (DARK RED) when connecting to the Siren. For all other connections, use solder if required and securely cover with electrical tape, heat shrink tubing and/or corrugated tubing.
- Use only a DMM (digital multi-meter) to test leads or take voltage readings. Do not use "test lights" or "logic probes" ("computer-safe test lights" included) because they draw a large amount of electrical current that could overload and destroy sensitive circuitry in the vehicle.
- Manually turn off all lights (such as the dome light) that illuminate when a hatch is opened so you will not run down the battery. If you cannot manually turn off all the lights, then remove the appropriate fuses and don't forget to replace the fuses after your installation is complete.
- Roll down a window to avoid locking the keys in the car.
- If unsure, consult the vehicle owner about where the LED Program Switch, Control Module, Siren, and Shock Sensor should be mounted.
- If you need a constant +12 volt power source under the dash, splice off the wire leading to pin-16 (POWER) at back of the vehicle's OBD plug. OBD pin-16 supplies a constant +12V at up to 7A.
- When running extension wires, always use a wire gauge that is as big or bigger than the wire you are extending.

Useful Installation Items:

- | | |
|---|---------------------------|
| • DMM (digital multi-meter) | • Soldering Iron & Solder |
| • Battery-powered drill & driver | • Corrugate Tubing |
| • Electrical Tape or Heat Shrink Tubing | • Wire Stripper/Crimper |
| • Brake Cleaner or Alcohol degreaser | • Wire ties |

TECHNICAL SPECIFICATIONS

Control Module

Operating Voltage:	12Vdc
Current Consumption:	3.3mA (<i>Armed* w/ LED flashing</i>) 2.0mA (<i>Disarmed or Armed* in Sensor Bypass Mode</i>) (<i>Does not include Shock Sensor consumption</i>)
Operating Temp.:	-40°C to +85°C
Certification:	IP40

** While vehicle CAN sleeping*

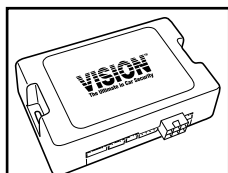
Shock Sensor

Operating Voltage:	12Vdc (<i>fed from Control Module</i>)
Current Consumption:	4.8mA (avg.) when Armed, 0mA when Disarmed
Operating Temp.:	-40°C to +85°C
Sensor Technology:	Infra-red Beam Deflection
Certification:	IP40 (<i>also passed IP50 tests</i>)
Replacement P/N:	318-052

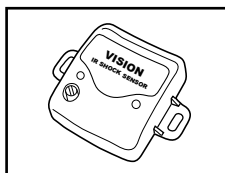
Siren

Operating Voltage:	12Vdc
Current Consumption:	5.5mA (<i>1480B trickle charge</i>), or 0mA (<i>1480S</i>); 1A max. (<i>during full siren blast</i>)
Operating Temp.:	-40°C to +125°C
Loudness:	125dB (<i>measured 30cm/1ft from speaker</i>)
Audio Generator:	1-tone (<i>6-tone selectable by cutting loop on siren</i>)
Housing:	Water-resistant (<i>cannot be submerged</i>)
Certification:	IP54
Replacement P/N:	KB22-1 (1480B) or KR22-1 (1480S)

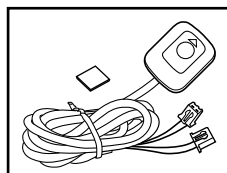
INCLUDED ITEMS



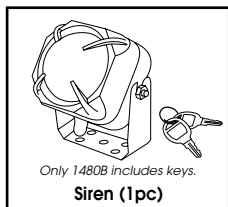
Control Module (1pc)



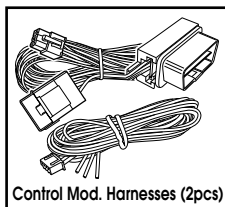
Shock Sensor (1pc)



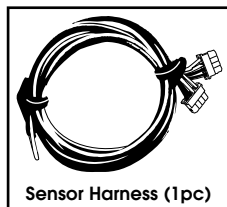
LED Program Sw. (1pc)



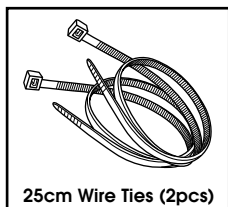
Siren (1pc)



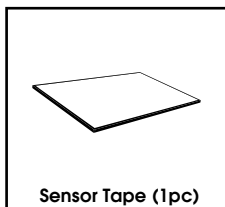
Control Mod. Harnesses (2pcs)



Sensor Harness (1pc)



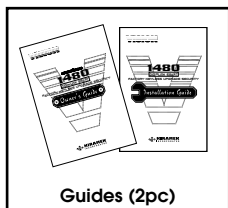
25cm Wire Ties (2pcs)



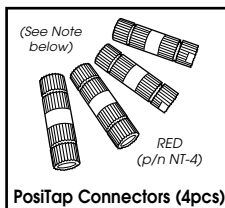
Sensor Tape (1pc)



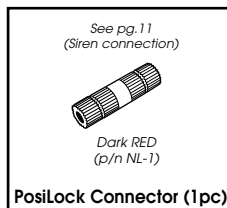
Window Decals (2pc)



Guides (2pc)



PosiTap Connectors (4pcs)



PosiLock Connector (1pc)

NOTE: 4 PosiTap connectors are not included when ordering the 1480 with an optional **OB-22** or **OB-23** OBD splitter harness because they are not needed. But 1 PosiLock connector is always included for the siren.

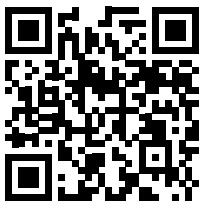
READ THIS FIRST

ALARM FIRMWARE & ONE-TIME LEARNING

FIRMWARE

The 1480 only works on select cars that have a compatible digital CAN-BUS communication system. If your car is not on our compatibility lists, the 1480 will not function at all! We do not accept product returns due to CAN-BUS data mismatching, so make absolutely sure prior to purchase that your vehicle is compatible and that firmware matched to your vehicle's CAN has been programmed into the 1480 product (by your authorized VISION dealer or by our company, KIRAMEK, Inc.) Visit our 1480 web page for the latest Compatibility List (May be in Japanese only. Email us for assistance.):

<http://visionsecurity.jp/en/systems/1480.html>



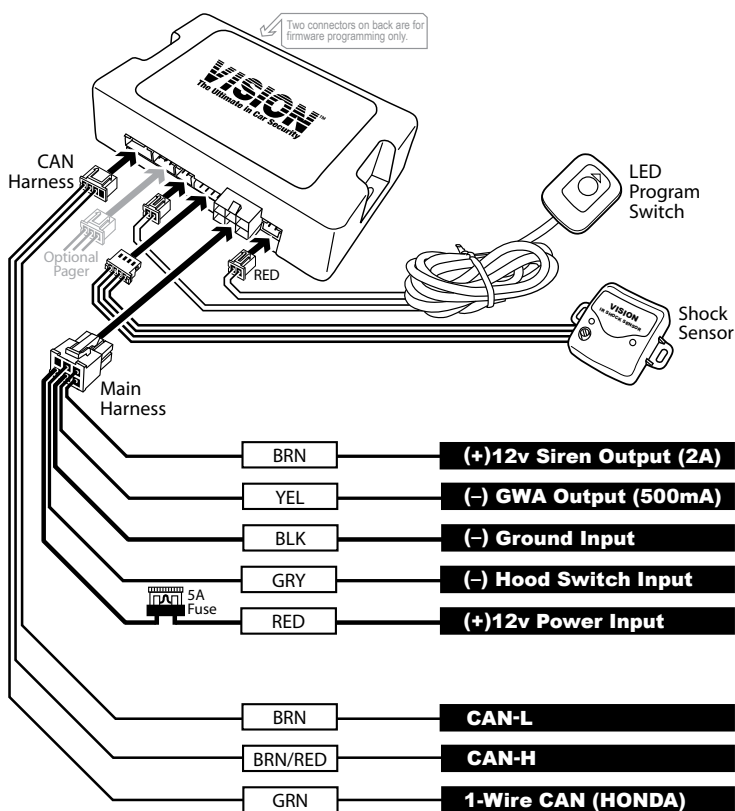
ONE-TIME LEARNING

After you have connected the four CAN & Power wires (OBD plug) and the Siren wire (pages 6-12), you will need to perform the CAN Signal Learning steps on page 14. You must do the CAN Learning steps even though the 1480 has been programmed with firmware matched to your car.

ELECTRICAL CONNECTIONS

The 1480's OBD plug (containing 2 Power wires & 2 CAN wires) is the most critical connection you will make. If you do not wish to use the 1480's OBD plug, always use the included PosiTap connectors to connect the 4 wires, or purchase an optional OB-22 or OB-23 splitter harness. NEVER use solder unless you are experienced – a surprising number of alarm installs fail due to badly soldered connections! If you use solder, always tape your connections to ensure nothing will ever short. NEVER use electrotaps or T-taps in place of PosiTap connectors as they can loosen over time and result in system malfunction.

SYSTEM WIRING DIAGRAM



NOTES

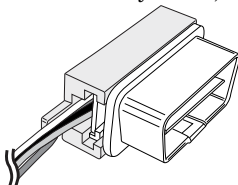
- 1) There are two BROWN wires. Don't confuse them!
- 2) Toyota and Nissan cars have an OBD2 connector that can connect alarm CAN & POWER (4 wires). Other cars allow POWER only from the OBD2. Yet other cars don't allow use of the OBD2 at all. See pp. 7-8.
- 3) Some HONDA cars use 1-wire CAN. In this case, instead of using the BRN & BRN/RED wires, you will only connect the GRN wire for CAN.

OBD CONNECTOR

PURPOSE

An OBD2 connector is included with *most* 1480 systems, and the following 4 wires are already connected to it:

- 1) (+)12v Power Input
- 2) (–) Ground Input
- 3) CAN-H
- 4) CAN-L



Toyota, Lexus and some Nissan cars allow you to merely connect the OBD2 plug to your car's OBD2 connector, and then you need only connect the BROWN wire to the Siren (plus any optional connections — see page 13).

Other cars like Honda allow you to connect the OBD2 plug to your car in order to easily obtain (+)12v Power and (–) Ground connections, but the two CAN wires will need to be cut off from the OBD2 plug and connected manually using the included PosiTap connectors. In addition, some Honda cars use a 1-wire CAN system, so CAN-H and CAN-L are not used at all, and the 1480's GREEN wire is used instead.



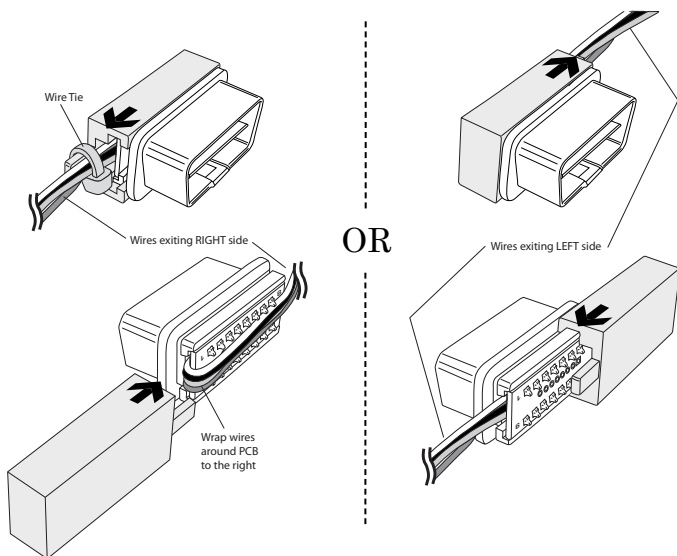
WARNING!

*If you connect the OBD2 connector with all 4 wires attached to **HONDA** cars that have **1-wire CAN**, you will cause a fault in the car's body computer. Such will result in a **Warning light** that can only be reset at the dealer, at your expense. **READ ALL 1480 DOCUMENTATION BEFORE CONNECTING ANYTHING!***

ORIENTING WIRES

The OBD2 connector included with the 1480 has a special feature that allows you to decide from which end the wires exit the connector, as shown in the diagram atop on the next page. This is useful because the direction you must insert the OBD plug from car to car.

Once you have oriented the wires as you like, simply slide the cap back over the circuit board and then use a wire tie to secure the wires as shown.

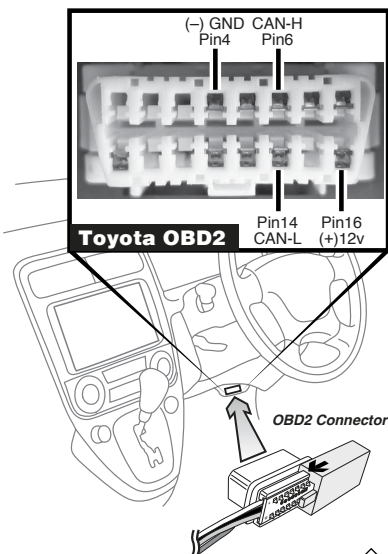


CONNECTING THE OBD PLUG

On TOYOTA, LEXUS and some NISSAN cars, simply attach the 1480's OBD plug to the vehicle's OBD plug. After that, connect the Siren (pg.11), and then finish with the LEARNING STEPS (pg.14).

To hide the OBD connections, cut off the 1480's OBD plug and manually connect the 4 wires *behind* the vehicle's OBD using the included PosiTap connectors, or purchase an optional **OB-22** or **OB-23** splitter harness (see pg.2 note under PosiTaps).

For all cars other than Toyota, Lexus and Nissan, please consult our separate INSTALL GUIDE that is specific to your vehicle.



POWER & CAN CONNECTIONS

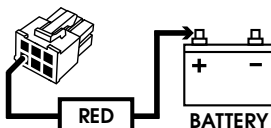


NOTE

Pages 9-10 describe how to **MANUALLY CONNECT** the Power & CAN wires. You do not need to reference these 2 pages if you have a **Toyota, Lexus** or **Nissan** car, unless you wish to cut off the OBD plug and make your connections manually. For Honda, note pg. 10. For all other cars, refer to our separate Install Guide. **If this section doesn't apply to your car or installation method, jump to page 11.**

RED (+)12v Power Input

MAIN HARNESS

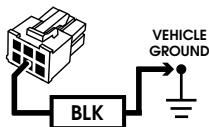


The RED wire is the (+) 12v power input to the 1480. Be sure to connect this wire securely to a *constant* 12v source, such as the factory wire attached to Pin-16 of the car's OBD2 connector (see OBD photo at bottom of page 8).

As of this writing, Toyota, Lexus and some Nissan cars do not put the factory OBD connect to Sleep to save power like some European cars do. This means you shouldn't have a problem taking +12v from Pin-16 of the factory OBD. However, car makers can change their body computer at any time. So if you find the 1480 shutting down when it should not, your Power and/or Ground connections must be suspect. If you have doubts about whether the OBD is being put to Sleep, run an extension wire through the firewall and attach the 1480's RED wire directly to the positive +12v battery terminal, which will bypass any Auto Sleep features of the vehicle.

BLK (-) Ground Input

MAIN HARNESS

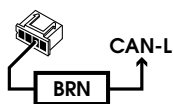


The BLACK wire is the (-) Ground input to the 1480. Be sure to connect this wire securely to a good ground source. **Most security system installation problems result from a bad ground connection!** The easiest connection is to the factory wire behind Pin-4 of the car's OBD connector (as shown in the photo on page 8.)

And unlike Pin-16 (+12v) of the car's OBD, Pin-4 (Ground) is normally not put to Sleep by some body computers. If you have doubts though, you can connect to body metal or an existing bolt (brush with steel wool first), or you can run a wire directly to the car's Negative battery terminal.

BRN CAN-L

CAN HARNESS

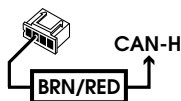


The BROWN wire is a digital I/O line that must be connected to the car's CAN-LOW line. CAN-L is Pin-14 of the car's OBD connector on all Toyota, Lexus and Nissan cars. But on other cars it is either in a different location in the car's OBD connector, or a different location in the car altogether. For this reason we have prepared separate Install Guides for cars other than Toyota, Lexus and Nissan, which provide details on where to connect the BROWN wire.

⚠ DON'T CONFUSE CAN-L WITH THE BROWN SIREN OUTPUT!

BRN/RED CAN-H

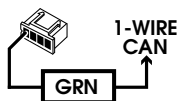
CAN HARNESS



The BROWN/RED wire is a digital I/O line that must be connected to the car's CAN-HIGH line. CAN-H is Pin-6 of the car's OBD connector on all Toyota, Lexus and Nissan cars. But on other cars it is either in a different location in the car's OBD connector, or a different location in the car altogether. For this reason we have prepared separate Install Guides for cars other than Toyota, Lexus and Nissan, which provide details on where to connect the BROWN/RED wire.

GRN 1-WIRE CAN (HONDA)

CAN HARNESS



The GREEN wire is a digital I/O line that must be connected to the single CAN line, but only on certain HONDA cars. Such connections are beyond the scope of this manual, so consult our vehicle-specific Install Guide for details.

⚠ WARNINGS!

- 1) NEVER use the Green wire when installing in Toyota, Lexus or Nissan cars. Those cars only require CAN-H & CAN-L.
- 2) NEVER connect all 3 wires in the CAN HARNESS! You either use CAN-H & CAN-L as a pair, or use the Green wire only.

SIREN CONNECTIONS

BRN (+)12v Siren Output

This wire supplies a (+)12v (2A max.) output to operate the included siren during a security breach. Do not confuse this wire with the Brown wire of the CAN harness!

The way to connect the Brown SIREN wire depends on which version of siren you have. The **1480S** comes with a standard 2-wire siren (see **Fig-1** below). The **1480B** comes with a more advanced 4-wire siren that has an onboard backup battery (see **Fig-2** below).

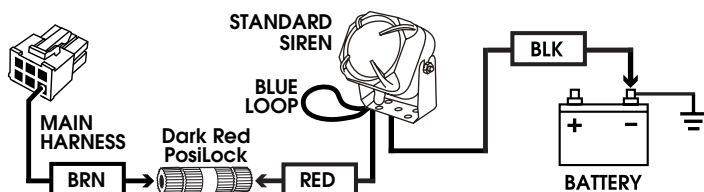


FIG-1: 1480S Siren Connections

Cut Blue Loop for 6-tone sound.

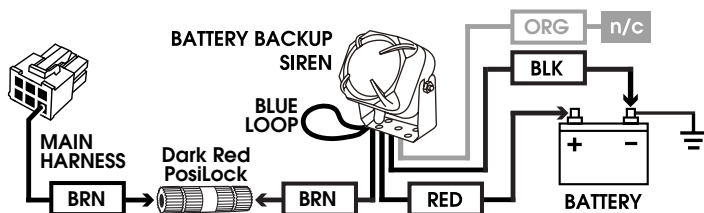


FIG-2: 1480B Siren Connections

Cut Blue Loop for 6-tone sound.

NOTE

One PosiLock connector is included for connecting the 1480's Brown Siren Output. If you use the included OBD for Power & CAN, you will have 4 PosiTap connectors left over. Although you can use one or two of these to easily connect the other siren wires shown above, we suggest a direct connection to the car's battery. And although it's easy to connect (-) Ground to a bolt in the siren's metal mount, keep in mind that rust could result in a faulty Ground in the future.

NOTE

We suggest you avoid connecting the siren's RED or BLACK wires in parallel with the Power & Ground wires of the 1480. If you splice Power/Ground off the OBD plug, it may cause a voltage drop malfunction in the alarm system. Even though it's troublesome, we recommend a direct connection to the car's battery.

LOCATION

Unlike the 1480 control module and sensors, the siren is to be mounted within the engine compartment. That means you must run a wire through a rubber grommet in the firewall to connect the 1480 control module's Brown Siren Output wire to the siren. Avoid mounting the siren in places where water can pool or constantly fall on the siren.

BACKUP SIREN KEYS

The 1480B comes with a Battery Backup Siren, and two siren keys. At the factory, the siren is Disabled so it will not make any sound until you Enable it by switching the keylock to the GREEN dot position, as shown at right.



Keep the siren Disabled until you have made all your connections, otherwise the siren may trigger.



Be sure to keep your keys in two separate safe places. You cannot order replacements. And you will need a key if the siren goes off for some reason and you cannot shut it off by normal means (with the remote).

BACKUP BATTERY

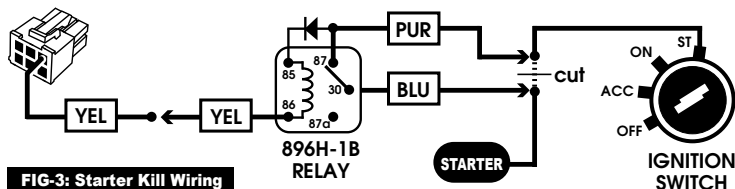
As is true with all batteries, the battery inside the 1480B's backup siren has a finite life. Life varies based on the installed environment. Typical life in the engine compartment is 3 years, under a constant trickle charge of 5.5mA. The battery is warranted for 1 year. You cannot replace the battery, but the siren will continue to operate even after the battery is dead (you simply will lose the backup function).

OPTIONAL CONNECTIONS

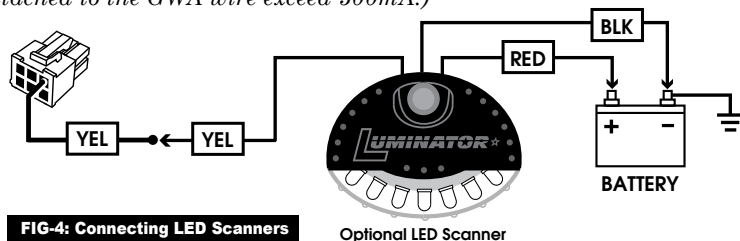
YEL (-) GWA Output

OPTIONAL PARTS REQUIRED

GWA stands for Ground-When-Armed. This wire supplies (-) Ground (500mA max.) while the 1480 is Armed. One common use is for connection to an *optional* **896H-1B** starter kill relay as shown in **Fig-3** below.



Another use for the GWA Output is to attach visual theft deterrents like scanning LEDs, as shown in **Fig-4** below. These devices will turn on when the 1480 is Armed. (You will need to add a relay if your combined devices attached to the GWA wire exceed 500mA.)

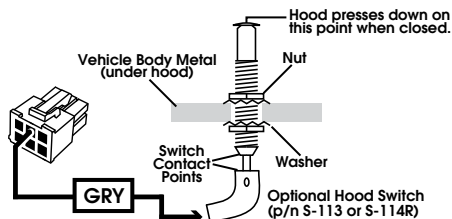


GRY (-) Hood Input

OPTIONAL PARTS REQUIRED

An optional Hood Switch allows more accurate reporting of Hood triggers on the Status LED and optional Paging System. Connection is shown in **Fig-5** at right.

See pages 9 & 15 in the Owner's Guide for more information.



This required procedure verifies that the firmware inside the 1480 is truly matched to your car. The 1480 will be completely disabled until you complete the steps below. You only need to do it once.



NOTE

Performing this initial setup procedure automatically resets all functions to their factory defaults. This includes a reset of the Programmable Features (Owner's Guide page 11), and resets any custom Manual Disarm Code you may have programmed (Owner's Guide page 5). If you have the optional Paging System installed (p/n TR537S or TR835S), all pagers will be erased from memory and you will have to relearn them. And if you have performed this CAN Learning procedure before, any previously learned CAN signals will be overwritten.

1) Disconnect the white 6-cavity connector of the Main Harness OR remove the Fuse on the Red +12v power line. (The objective is to kill power to the 1480 control module.) Wait about 10 seconds.

2) Switch ON the Ignition*.

3) Press-and-hold the Program Switch, and at the same time reconnect the Main Harness or reinsert the Fuse. *You should now hear the siren blast, and you will notice the LED is lit. (The 1480 has now been reset to its factory state.)*

4) Release the Program Switch. *The siren will shut off and the LED will turn off. (And the siren may or may not chirp 3 times.)*

5) Switch OFF the Ignition. *(The LED may or may not stay lit and/or flash a few seconds.)*

6) Lock and Unlock. *Vehicle CAN signals are now learned. Wait 20 seconds before you Lock again, otherwise you may enter Sensor Bypass Mode (see pg. 3 in the Owner's Guide for details of that mode).*

**NOTE: If the above steps do not work (i.e., the 1480 won't function), you may need to start the engine in Step (2) above rather than just switch the Ignition ON. (This issue occurs only on some Hybrid cars.)*

MOUNTING SYSTEM COMPONENTS

Control Module



The Control Module is “the brain” of the system and therefore must be installed in a secure location under the dash. *NEVER install the Control Module in the engine compartment or near any source of heat or moisture! NEVER place the Control Module near moving parts or in a location where it can vibrate or move around excessively.*



NOTE

When considering an appropriate mounting location, keep in mind that most thieves hot-wire vehicles by removing the plastic panel just under the steering column.

Locations above or behind the glove box, behind the radio or high up under the dash are all good mounting places. However, you may need to extend wires if your chosen location is too far from the steering column. *If you extend wires, always use the same or larger gauge wire! Solder all large gauge wire connections and cover with electrical tape or heat shrink tubing and/or corrugate tube.* Mount the control module to a secure, flat surface or use wire ties to affix to a factory wire harness.

LED Program Switch



The Status LED is used as a visual theft deterrent when the system is Armed and to alert the user if the siren triggered in their absence. And both the LED and the Program Switch are used for feature programming.

This unit is the size of a factory switch cover, so you can easily mount it with the included 2-sided tape somewhere near the steering wheel. Mount it so the LED can be seen from outside the driver's side window. Such will warn would-be thieves and conveniently show you the Trigger Memory.

Siren



Find a location in the engine compartment (such as the firewall) that is far from heat sources or moving parts such as belts or the radiator fan. Locate a factory bolt or bolt hole for securing the siren mount; otherwise, you will need to drill holes and use self-tapping screws. Mount in a place that will not be splashed excessively with water or immersed in water.



Shock Sensor

The shock sensor is not waterproof so only mount it *inside the car*. Only use *the included* 2-sided tape, and mount the sensor to the outside of a plastic surface such as the car's center console. We recommend you mount it in open view (rather than hide it) in order to make sensitivity adjustments easier.

When choosing a mounting location on the driver's side (typically on the lower side of the center console plastics), try to mount the sensor in a place where it cannot be accidentally kicked by the driver. And before you mount the sensor with the included tape, use your fingers to press against the place where you want to mount it, to see if the plastics move a lot when you press on them. Plastics that are "looser" will result in lower shock sensitivity. Mounting on a more firm section of the car's plastic will result in much better sensitivity. Since you only have one piece of included tape, try to determine the best mounting location before you affix it.

NEVER use screws or wire ties to mount the sensor! Always mount to plastic, using the included tape! Mounting to metal can increase sensitivity so high it will cause false triggering.

We strongly recommend you first *clean* the mounting surface in the car with *brake cleaner* (or similar oil solvent, degreaser) to make the sensor's 2-sided tape stick more permanently. Even when affixing the sensor to very rough textured car plastics, the use of brake cleaner on the plastic surface will allow the sensor tape to stick permanently. Failure to clean the surface may result in the tape peeling off over time, which would cause the sensor to fall off and possibly false trigger the siren.



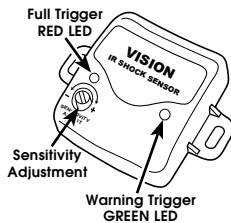
NOTE

Always mount the shock sensor and sensor wires more than 30cm (1ft.) away from the optional Paging System's Antenna Unit, and 30cm from the controller of any attached Ultrasonic Sensor. Failure to do so may cause the shock sensor to randomly false trigger the siren.

ADJUSTING THE SHOCK SENSOR

Sensitivity

The shock sensor is factory preset to work well with most vehicles out-of-the-box (50% setting). However, if you find that the siren is going off too easily, or if the siren doesn't go off when you think it should, it's time to adjust the sensitivity.



Turn the sensitivity adjustment knob clockwise to *increase* sensitivity and counter-clockwise to *decrease*. If you cannot find a suitable adjustment level, consider remounting the shock sensor.

False Alarms

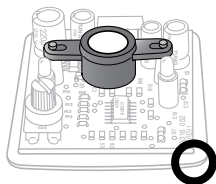
The VISION 318-052 Active-IR shock sensor has been engineered to avoid false triggers in most situations. However, there is still the possibility the sensor could trigger the siren during a strong earthquake, jackhammer operation adjacent to the vehicle, hurricane/typhoon, large explosions/fireworks, large animals ramming against the vehicle, etc. If any of these extreme cases are anticipated, you can avoid false siren triggers simply by Arming the system with the Sensor Bypass Arming, which ignores the shock sensor (*see page 3 of the Owner's Guide*).

Another consideration is temperature. The sensitivity can vary by as much as 20% under extreme temperature conditions. You may wish to *reduce* the sensitivity in *very hot* weather and *increase* sensitivity in *very cold* weather.

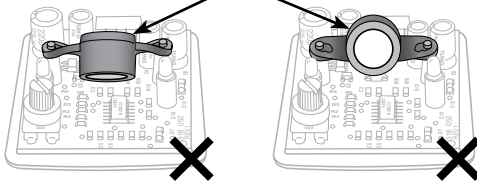
Suspended Reflector Malfunction

If the shock sensor is not working well or at all, it may be that the suspended element inside the case was jolted out of position. Disconnect the wire harness, snap open the shock sensor case, and adjust as shown below.

Correct Alignment



Incorrect Alignment



CAN LEARNING NOT SUCCESSFUL.

- If you manually connected Power and CAN (pages 9-10) instead of using the OBD connector, reconfirm all your connections. If CAN-H and CAN-L are reversed, you of course will not be able to learn the vehicle's CAN signals. Also note that the vehicle's CAN wires are normally a "twisted" pair. So if you connected CAN-H and CAN-L to wires that are not twisted, you probably chose the wrong wires.
- Reconfirm that your vehicle is indeed compatible. The make, model and year is very important.
- Reconfirm what firmware is programmed in the 1480 control module. If the firmware is not perfectly matched to your vehicle, it doesn't matter if your wiring is perfect, the alarm will not function until the right firmware is installed in the 1480.
- Are you using the OBD connector on a car other than Toyota, Nissan or Lexus? If so, it will not work. At this time, we do not support OBD connections on cars other than Toyota, Nissan and Lexus.
- If all else fails, try the following CAN LEARNING STEPS instead of those given on page 14:

1) Disconnect the white 6-cavity connector of the Main Harness OR remove the Fuse on the Red +12v power line. (The objective is to kill power to the 1480 control module.) Wait about 10 seconds.

2) Press-and-hold the Program Switch, and at the same time reconnect the Main Harness or reinsert the Fuse. *You should now hear the siren blast, and you will notice the LED is lit. (The 1480 has now been reset to its factory state.)*

3) Release the Program Switch. *The siren will shut off but the LED will remain lit.*

4) Switch ON the Ignition. *The LED will turn OFF. (And the siren may or may not chirp 3 times.)*

5) Switch OFF the Ignition. *The LED will light for 5 seconds, turn off for 2 seconds, and then it will flash 6 times. (The 6 LED flashes show the Manual Disarm code has been reset to 6, the factory default.) Vehicle CAN signals are now learned. Wait 10 seconds before you begin testing.*

TROUBLESHOOTING

CAN LEARNING SUCCESSFUL, BUT ALARM OPERATION IS ERRATIC.

- An intermittent +12v Power or (–) Ground connection is the most common reason for unexplained alarm behavior. This should not be a problem if you used the OBD connector and if it is securely connected, but be sure to reconfirm your Power and Ground wiring if you manually connected them.
- If your power source is truly stable, then the best alternate explanation for erratic behavior is “the wrong firmware.” There are different firmware files even within the same car family. For example, there are numerous different firmware files for Toyota cars alone. If you have the wrong Toyota firmware and try to use it on a Toyota it wasn’t intended for, the alarm may function correctly sometimes but not at other times. The fix is easy. Just program the correct firmware. (USB Programming Tool required. Visit your VISION dealer or speak to KIRAMEK.)

SHOCK SENSOR ONLY “FULL TRIGGERS.” THERE’S NO WARNING TRIGGER.

- View the sensor’s LEDs when you hit the car’s body. If the Green LED doesn’t light, slightly increase the sensitivity of the shock sensor.
- If the Green LED lights, perhaps you’re testing too quickly. After Locking/Arming, you must wait 10s before you can test the shock sensor.

SHOCK SENSOR GIVES REPEATED WARNING TRIGGERS.

- If the sensitivity of the sensor is too high and/or if the mounting location is incorrect, the sensor may be triggering on the otherwise undetectable sounds of the hazard light relay switching, or even the siren vibration. Reduce sensitivity and/or change the mounting location of the sensor.

3rd PARTY ENGINE STARTER TRIGGERS SIREN.

- As of 2014, many factory and aftermarket remote start systems feature a “Door Open” output wire that is used to trick the car into thinking a door has been opened after the remote starter shuts off. Such an output is used to turn off the Headlights on cars where the Headlight Switch is set to AUTO.
- To solve the problem, DO NOT USE the AUTO setting on your headlight switch, and cut or disconnect the remote start systems “Door Open” wire.
- If the above solution doesn’t work or doesn’t apply to your situation, the only solution is for you to Disarm the 1480 before the remote starter shuts off the engine (or remove the remote starter altogether).

The 1480 can be installed in your car without the need for any Options. However, we do offer the following add-on products to enhance security and convenience:

TR537S: 2-way LCD RF Paging Control System (ARIB-T67, for Japan)

or

TR835S: 2-way LCD RF Paging Control System (FCC, for USA)

896H-1B: Starter Kill Relay

896H-1CN: Relay to drive high-current devices like the Horn.

S-114R or S-113: Pin switch to detect Hood opening.

OB-22 or OB-23: OBD splitter harnesses – useful for simply hiding the 1480's OBD connection (OB-22) or hiding the connection AND adding a 3rd party OBD device (OB-23). *Some 3rd party OBD devices may be incompatible with the 1480. Contact KIRAMEK for details.*

Optional Sensors:

- **MMF-2:** 2-stage Radar Sensor
- **KST-24:** 2-stage Digital Tilt Sensor
- **SB-03:** Sensor Splitter to easily connect up to 3 sensors at once

Luminator® LED Scanners – visual theft deterrents

More details about add-on devices can be found on our website:
www.visionsecurity.jp/en/



VISION products are engineered in Japan and manufactured in strict accordance with Japanese QC standards at an ISO9000/ QS9000 certified factory.

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