

# WARRANTY TERMS

- 1) Warranty period is measured as one (1) year from date of purchase.
- 2) In the unlikely event of product failure during normal use (as defined by this manual), the product will be repaired or replaced free of charge, but only at the original dealer/place of purchase. Demand for onsite repairs may be met in some cases within Japan, but onsite service fees will apply and vary by location.
- 3) All warranty claims must be submitted through the vendor from whom you originally purchased this product. You must fill out the form on the front page of this manual, and submit the dated purchase receipt.
- 4) You can only submit warranty claims to us if you have moved and can no longer visit your SL50V dealer.
- 5) Customer bears the cost of removal/reinstallation fees, as well as return shipping if not hand-delivered.
- 6) Regardless of being covered under Warranty, the following cases resulting in malfunction will require a repair fee:
  - Oil, water, dust, etc. having accumulated inside and on the electronics.
  - Improper installation or carelessness by the user.
  - Unauthorized product repair or modification.
  - Accidental drops, falls or other strong impact.
  - Fire, earthquake, flood, lightning, tornadoes, other natural disasters, as well as pollution, salt-air damage, etc.
  - When used outside the intended use, as specified in this manual.
  - Car accidents, vandalism or theft.
  - Problems due to deficiencies in this manual, or if you do something this manual doesn't specifically prohibit.
  - And cases where you do not properly fill out your claim, provide false info., and/or lack a dated receipt.
- 7) This warranty is valid for SL50V users outside Japan ONLY when sold by and approved in writing by KIRAMEK.
- 8) We cannot reissue printed documents free of charge. Please keep this document safe and do not lose it.
- 9) Damage to your vehicle or the SL50V caused by improper SL50V installation is not covered under this warranty.

#### PLEASE NOTE:

Product repair or replacement is guaranteed under the terms, conditions and duration of this warranty. This warranty does not limit your legal rights. If you have questions or problems after this one (1) year warranty has expired, please consult with the original dealer from whom you purchased the SL50V product.

Because your warranty claim will be invalidated by an improperly filled out PRODUCT WARRANTY CLAIM card, please carefully confirm all entries and/or consult with your SL50V dealer before submission.

## PRODUCT WARRANTY CLAIM

PRODUCT DESC.:	TOYOTA Auto Lock System	MODEL/SerialNo.:	SL50V / #####
Warranty Period:	1 YEAR (validated only by dealer and/or dated proof of purchase)		
Date of Purchase*:	Year: ####, Month: ###, Day: ##		
Customer Info.*:	Name:		
	Address:		
	Phone:		Email:
Seller Info.*:	Name:		
	Address:		
	Phone:		Website:

\* Please fill in these marked sections above completely.

Approval Stamp

**NOTE:** Warranty Claims not accepted without valid Approval Stamp and/or dated proof of purchase.

**Manufacturer:** KIRAMEK, Inc.  
9-183-1 Itayama-cho,  
Handa-shi, Aichi-Ken 475-0936 JAPAN

**Contact TEL:** +81-569-20-5585 ( Operating Hours (ex. Sat./Sun./Holidays):  
10:00AM ~ NOON, 1:00PM ~ 4:00PM )

# TOYOTA AUTO LOCK SYSTEM SL50V MANUAL

Thank you for purchasing the SL50V Auto Lock System. Please read this manual in its entirety before using the product. Be sure to store this manual in a safe place, as you may need to reference it in the future.

#### Electrical Specifications

Operating Volt.	+12Vdc
Avg. Current	4mA (CAN sleep)
Operating Temp.	-40°C ~ +85°C

## PRECAUTIONS

PLEASE READ THOROUGHLY BEFORE USE



### DANGER Mishandling may cause bodily harm!

- This product merely locks and unlocks car doors only when triggered by vehicle speed, gear position, and rapid deceleration. This device will **NOT** unlock doors due to shock, impact or airbag inflation.
- This product **MUST** be used in compatible cars that have an **Automatic Transmission**. Installing into a manual/stick-shift vehicle would likely cause a malfunction.
- This product **CANNOT** be used on cars with Toyota **T-Connect** or **DCM** wireless features!
- NEVER modify this product in any way. Such modifications could result in malfunction or situations where bodily harm, vehicle damage, and/or product damage could occur.
- ALWAYS install in accordance with this document. Non-standard installations can result in situations where bodily harm, vehicle damage, and/or product damage could occur.
- This product is NOT waterproof, splash-proof, or dust-proof. Take care to prevent water, dirt, oil and other impurities from entering the product; otherwise malfunction to the product could occur, as well as vehicle damage and possible bodily harm.



### NOTE Product or vehicle failure could result from ignoring the following:

- This product is primarily intended for use on Japanese vehicles made in Japan.
- NEVER store or mount this product where water, oil, dirt, or moisture collects, or where there is intense heat or steam present. Such may cause product failure.
- This product is primarily intended for sale at domestic Japanese car dealerships.
- Our company shall not be held liable for traffic accidents that occur with the SL50V installed.
- Specifications of this product are subject to change without notice.
- ALWAYS CONFIRM **prior to purchase** that you or your installer have appropriate expertise and equipment to safely and properly install this product.



## OPERATIONAL NOTES

- This product will automatically unlock doors 9 seconds after rapid deceleration is detected, such as during an accident. But the SL50V functionality is not tied to the vehicle airbag system, nor will the SL50V function based on vehicle impact or shock.
- This product Locks the doors when the vehicle speed exceeds 20~25km/h, and it Unlocks doors when the gear is shifted back to the "P" (Park) position. If someone unlocks the doors while the car 20km/h or faster, the doors will RELOCK the driver's door if the vehicle has SMART keyless entry, but there are some compatible vehicles that will not relock the passenger side door or the rear doors (consult with KIRAMEK for details).
- Your car's speedometer may show a speed slightly higher than 20km/h when the SL50V automatically Locks. That is because Toyota cars are designed to show a slightly higher speed on the speedometer relative to the actual speed of the car.
- The SL50V shall not be used as an excuse by the user for traffic accidents.
- The SL50V **CANNOT** BE USED WITH **3rd PARTY OBD DEVICES**! Do not buy the SL50V if you have existing non-KIRAMEK OBD devices or you intend to buy and install them with the SL50V.

## PRODUCT OVERVIEW

### Status LED (internal)

### Reset Button

Use when installing the SL50V in a different car, or when you cannot Learn (see below), or when behavior is strange. **Press with a paperclip for 1 second and then release** while connected to your car's OBD and while Ignition is ON.



### Metal Removal Handle

Makes it easier to disconnect the SL50V after you have connected it to your vehicle's factory OBD connector. Simply release the clamp from its locked-down position and then pull on it to remove the SL50V.

### OBD Connector

Connect this white plug to your vehicle's OBD connector, often found on the driver's side foot area. (Remove white rubber-band first!)

### Connector with Rubber Cap

NEVER connect to this! If you connect to any USB device, you will harm your SL50V. Such damage is not covered under warranty.

## INSTALLATION & 1-TIME LEARNING

**Step-1** : Start the engine. (Don't just turn the Ignition ON. Start the engine!)

**Step-2** : Securely connect the SL50V to the car's OBD plug and then wait to see the following:

- The SL50V's LED will flash.
- Vehicle doors will eventually Lock/Unlock and Hazard Lights will flash.
- Learning is finished when the SL50V's internal buzzer beeps and the LED turns solid RED. It can take up to 30 seconds, so please be patient. You can then turn off your engine.

### IMPORTANT!

It's very important that you start the vehicle's engine BEFORE you connect the SL50V. Furthermore, it is important that you keep the engine running until the SL50V's LED turns solid RED. If you stop the engine or disconnect the SL50V while the LED is still flashing, the SL50V will not function, and you will then need to press the SL50V's Reset Button with a paper-clip to get it functioning properly again. Two examples of malfunction (due to improper learning of the SL50V) are:

#### 1. If a door is opened:

You may experience repeated Locking and Unlocking.

#### 2. If doors are closed:

LED may be lit solid RED but the Locking/Unlocking doesn't work at all.

If you experience a malfunction, with the SL50V connected and the engine running, insert the tip of a paper-clip into the Reset Button hole and keep pushing until the LED starts FLASHING. Then if the LED changes from Flashing to Solid RED, then proper learning should have occurred and all should be well.

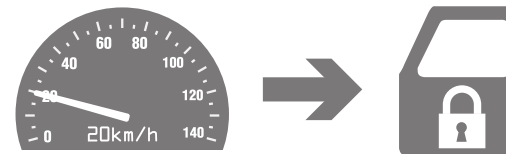
**WARNING!** Do NOT use a toothpick or other breakable to press the Reset Button. The SL50V case is sealed and cannot be opened to remove whatever you break off inside!

### ABOUT THE LED

The SL50V's internal LED will flash until it is Learned. After Learning the LED will be solid RED while the vehicle's CAN-BUS network is active. But when the CAN-BUS network sleeps, then the SL50V's LED will turn off. What this means is, even after you shut off your engine, you may continue to see the SL50V's LED remain lit until the vehicle's CAN finally sleeps. That sleep time is typically 30 seconds to 3 minutes depending on the vehicle, and assuming no network activity takes place.

## OPERATION

- Doors auto-LOCK when vehicle speed exceeds 20km/h.



- Returning the gear to the P position UNLOCKS the doors.



- Doors auto-Unlock 9 seconds after rapid deceleration.



The 9 second delay exists because it is assumed that hard braking will occur just prior to a collision and the doors should not be unlocked while a collision is taking place. So the doors are unlocked 9 seconds after the hard braking, which assumes a collision has taken place by then. This is triggered based on hard braking alone, and the system is not triggered or affected by the vehicle's airbags system or shock/impact during a collision.

**NOTE:** If your vehicle is not completely stopped (0km/h) when the SL50V tries to Unlock (at the 9 sec. point), the doors will NOT Unlock.

- The SL50V will RELOCK doors if unlocked while driving at >20km/h.

The RELOCK feature of the SL50V only relocks the driver's door on some cars due to the absence of CAN-BUS digital codes on those cars. Visit the KIRAMEK website and the SL50V web page to see a chart that shows which cars RELOCK the Driver's Door, Passenger Door and Rear Doors.

### IMPORTANT!

- The SL50V is incompatible with Manual Transmission cars (stick shift).
- The SL50V is incompatible with Toyota T-Connect & DCM wireless features. Use the SL70VG instead.
- The SL50V is incompatible with remote engine starters because the SL50V will Unlock doors when the engine is remote started.
- The SL50V is incompatible with Turbo Timers because the SL50V will immediately Unlock when the Turbo Timer is activated.
- The SL50V is fully compatible with other DIGI-LINK® products from KIRAMEK, INC.
- **IMPORTANT! The SL50V is NOT COMPATIBLE with 3rd party OBD devices from other companies!**

## WARRANTY TERMS

- PLEASE NOTE:**

Because your warranty claim will be invalidated by an improperly filled out PRODUCT WARRANTY CLAIM card, please carefully confirm all entries and/or consult with your SL30 dealer before submission.



\* Please fill in these marked sections above completely.

**Manufacturer:** KIRAMEK, Inc.  
9-183-1 Itayama-cho,  
Handa-shi, Aichi-Ken 475-0936 JAPAN

**Contact TEL:** +81-569-20-5585 (Operating Hours (ex. Sat./Sun./Holidays): 10:00AM ~ NOON 1:00PM ~ 4:00PM)

Operating Volt.	+12Vdc
Avg. Current	4mA (CAN sleep)
Operating Temp.	-40°C ~ +85°C

- This product will automatically unlock doors 9 seconds after rapid deceleration is detected, such as during an accident. But the SL30 functionality is not tied to the vehicle airbag system, nor will the SL30 function based on vehicle impact or shock.
- This product has ESS (Emergency Signal System), which flashes the vehicle hazard lights at 3Hz in the event of hard braking ( $9\text{m/s}^2$ ) while driving  $55\text{km/h}$  ( $\pm 3\text{km/h}$ ) or faster, and hazard lights stop when deceleration becomes  $3\text{m/s}^2$  or less.
- This product Locks the doors when the vehicle speed exceeds  $20\sim 25\text{km/h}$ , and it Unlocks doors when the gear is shifted back to the “P” (Park) position. If someone unlocks the doors while the car  $20\text{km/h}$  or faster, the doors will RELOCK (if your vehicle has SMART, check our website for details).
- Your car’s speedometer may show a speed slightly higher than  $20\text{km/h}$  when the SL30 automatically Locks. That is because Toyota cars are designed to show a slightly higher speed on the speedometer relative to the actual speed of the car.
- The SL30 shall not be used as an excuse by the user for traffic accidents.
- The SL30T **CANNOT BE USED WITH 3rd PARTY OBD DEVICES!**

## PRODUCT OVERVIEW

Status LED (internal)

Reset Button

For use only when you wish to install the SL30 in a different car, or when you cannot learn the SL30 well for some reason. Press with a paperclip.



Removal Handle

Makes it easier to disconnect the SL30 after you have connected it to your vehicle's factory OBD connector. Simply release the clamp from its locked-down position and then pull on it to remove the SL30.

OBD Connector

Connect this white part to your vehicle's OBD connector, often found on the driver's side foot area.

## INSTALL with ESS

**Step1** : Start the engine. (Don't just turn Ignition ON. Start the engine.)

**Step2** : Securely connect the SL30 to the car's OBD plug.

• The SL30's LED will flash. • Vehicle doors will Lock/Unlock and Hazard Lights will flash.

**Step3** : Learning is finished when the SL30's internal buzzer beeps and the LED turns solid RED. (It can take up to 30 seconds, so please be patient.) You can then turn off your engine.

## INSTALL without ESS Use this Install Method if your car has Factory ESS!

**Step1** : Start the engine. (Don't just turn Ignition ON. Start the engine.)

**Step2** : Switch ON the vehicle Parking Lights. (This step is very important! Don't forget to do it!)

**Step3** : Securely connect the SL30 to the car's OBD plug.

• The SL30's LED will flash. • Vehicle doors will Lock/Unlock and Hazard Lights will flash.

**Step4** : Learning is finished when the SL30's internal buzzer beeps and the LED turns solid RED. (It can take up to 30 seconds, so please be patient.) You can then turn off your engine.

### IMPORTANT!

It's very important that you start the vehicle's engine BEFORE you connect the SL30. Furthermore, it is important that you keep the engine running until the SL30's LED turns solid RED. If you stop the engine or disconnect the SL30 while the LED is still flashing, the SL30 will not function, and you will then need to press the SL30's Reset Button with a paper-clip to get it functioning properly again. Two examples of malfunction (due to improper learning of the SL30) are:

1. If a door is opened:

You may experience repeated Locking and Unlocking.

2. If doors are closed:

LED may be lit solid RED but the Locking/Unlocking doesn't work at all.

If you experience a malfunction, with the SL30 connected and the engine running, insert the tip of a paper-clip into the Reset Button hold and keep pushing until the LED starts FLASHING. Then if the LED changes from Flashing to Solid RED, then proper learning should have occurred and all should be well.

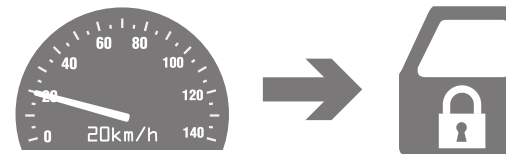
**WARNING!** Do NOT use a toothpick or other breakable to press the Reset Button. The SL30 case is sealed and cannot be opened to remove whatever you break off inside!

### ABOUT THE LED

The SL30's internal LED will flash until it is learned. After learning the LED will be solid RED while the vehicle's CAN-BUS network is active. But when the CAN-BUS network sleeps, then the SL30's LED will turn off. What this means is, even after you shut off your engine, you may continue to see the SL30's LED remain lit until the vehicle's CAN finally sleeps. That sleep time is typically 30 seconds to 3 min. depending on the vehicle, and assuming no network activity takes place.

## OPERATION

○ Doors auto-Lock when vehicle speed exceeds 20km/h.



○ Returning the gear to the P position Unlocks the doors.



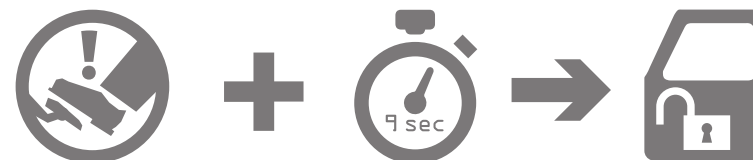
○ ESS: Braking hard while driving at >55km/h will flash the Hazard Lamps.



ESS flashes the vehicle hazard lights at 3Hz in the event of hard braking ( $9m/s^2$ ) while driving 55km/h (+/-3km/h) or faster, and hazard lights stop when deceleration becomes  $3m/s^2$  or less.

**▲ If your vehicle has Factory ESS, you must INSTALL WITHOUT ESS! (See left)**

○ Doors auto-Unlock 9 seconds after rapid deceleration.



The 9 second delay exists because it is assumed that hard braking will occur just prior to a collision and the doors should not be unlocked while a collision is taking place. So the doors are unlocked 9 seconds after the hard braking, which assumes a collision has taken place by then. This is triggered based on hard braking alone, and the system is not triggered or affected by the vehicle's airbags system or shock/impact during a collision. **NOTE:** If your vehicle is not completely stopped (0km/h) when the SL30T tries to Unlock (at the 9 sec. point), the doors will NOT Unlock.

○ The SL30 will Relock doors if unlocked while driving at >20km/h.

The RELOCK feature of the SL30 is not compatible with some cars due to the lack of needed CAN-BUS digital data. Check our SL30 Compatibility Chart on our website for details.

- The SL30 is incompatible with remote engine starters because the SL30 will Unlock doors when the engine is remote started.
- The SL30 is incompatible with Turbo Timers because the SL30 will immediately Unlock when the T.Timer is activated.
- The SL30 is fully compatible with other DIGI-LINK® products from KIRAMEK, INC.
- **IMPORTANT! The SL30 is NOT COMPATIBLE with 3rd party OBD devices from other companies!**