

WARRANTY & REPAIR INFORMATION

- 1) Product warranty is valid for 1 year, starting from the date of purchase.
- 2) If the product becomes defective during the warranty period under normal use, having been installed in strict accordance with this documentation, it can be repaired or replaced free of charge from the store or vendor who sold the product. But if an on-site visit is required or fees apply for removal and re-installation, those fees shall be borne by the user exclusively. Shipping fees are also borne by the user.
- 3) Servicing of your defective product can occur even when warranty is expired, but the costs associated with that repair shall be borne by the user, including any installation and/or shipping fees.
- 4) In cases where it is impossible to return the product to the original vendor, KIRAMEK shall offer repair or replacement services when the product is shipped to KIRAMEK at the owner's expense.
- 5) Even when the warranty is valid, the product owner can still be charged fees in the event of:
 - Installation mistakes or usage carelessness
 - Damage due to improper repair or modification
 - Damage resulting from the user or installer having dropped the product onto a hard surface.
 - Damage due to fire, pollution, earthquake, flood, saltwater damage, lightning strike, tornado, hurricane and other natural disasters.
 - Damage caused by installation in something other than normal 12V passenger cars.
 - The owner is not able to produce the original purchase receipt to prove their purchase.
- 6) This warranty is covers purchases made and used in Japan, but KIRAMEK can extend this warranty to products purchased directly from KIRAMEK by overseas customers.
- 7) We cannot reprint this manual for free.

PLEASE NOTE

- The above warranty outlines what is required for the buyer to obtain a free repair. It does not limit your legal rights.
- Please contact the vendor who sold you your 318-16R originally whenever you have questions about warranty support, product repair or replacement.
- Your purchase must be validated by KIRAMEK before we can offer free product repairs or replacements during the warranty period, so please be able to prove your purchase by means the warranty card below, or an original copy invoice or receipt, or online correspondence that will allow KIRAMEK to determine when and what you purchased.

PRODUCT WARRANTY CLAIM

PRODUCT DESC.:	DOOR LOCK INTERFACE	MODEL:	318-16R
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

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)

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

INSTALLATION GUIDE

318-16R Door Lock Interface

BEFORE YOU INSTALL

Thank you for purchasing the 318-16R Door Lock Interface. Be sure to read this manual before use and closely follow the wiring and usage instructions. Also be sure to keep this manual in a safe place to ensure you have access to it, if needed, in the future.

SAFETY PRECAUTIONS

⚠️ WARNINGS

- Avoid disconnecting the battery on vehicles equipped with an airbag to avoid warning lights or airbag related problems.
- Incorrect wiring during your installation may cause damage to the vehicle or the 318-16R. Be careful and wire in strict accordance to this manual.

GENERAL NOTES

⚠️ PRECAUTIONS

- This product must be installed only in 12V vehicles. Installation in a 24V vehicle will damage the product and such is not covered under warranty.
- Do not mount this product in a place where water splashes or collects, or near heat sources, in high humidity, or where steam, oil or dust collects. There is risk of personal injury or even death when a short circuit occurs. It could cause electric shock, a fire or another circuit to be broken or malfunction.
- We recommend a professional installation by someone experienced in vehicle electronics. If you have doubts about your ability to properly install this product, do not install it and hire a professional who can.
- Do not install this product anywhere in the engine compartment.
- Mount the plastic module securely so it won't become disconnected, malfunction or interfere with other vehicle electronics.
- When necessary, open a window to ensure you don't lock keys in the car.
- Some vehicles equipped with airbags or anti-theft stereo systems can detect when the vehicle battery has been disconnected. If you disconnect the battery, you might need to return to your dealer to have them clear a fault code.
- Our company accepts no liability for any vehicle damage relating to improper installation.

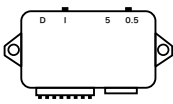
Ver. 1.2, Aug. 2022

ALWAYS KEEP THESE SAFETY PRECAUTIONS IN MIND

- **When replacing fuses, be sure to use fuses rated for 15A or less.**
Each of the internal door lock control relays can carry up to 15A and is why a 15A fuse is used on the shipping product. To avoid cause a fire due to overheating wires, never use fuses rated higher than 15A.
- **The Mode Switch is factory set to to "0.5" position. Please leave it in that position.**
When the Mode Switch is changed to the "5" position, the relay operation duration becomes 5 seconds. This mode is only very rarely used on some non-Japanese vehicles. It may damage the motors if used on Japanese vehicles. It could also cause the 15A product fuse to blow because the motor would be operating in an overloaded condition.
- **Be sure to use the Interface Switch in the "I" position (factory default).** (The "D" position ties the GRN & BLU wires directly to the GND of each Relay Coil and requires a minimum of 30mA to energize each relay.)
- **Do not install the 318-16R near heat sources.**
Not only can heat warp or melt the plastic enclosure, but heat will change how much current can pass through the onboard relays and the included wire harness. If the heat is high enough, the relays could be damaged.
- **Do not install the 318-16R near water or oil.**
The product is not waterproof or dust-proof. If exposed to water, oil or excessive dirt influx, the product may stop working or a fire may result. Do not install in an air duct, as the A/C can cause water droplets to condense inside the product. Never install inside a door panel where water could possibly come in contact with the product.
- **Always insert the main connector firmly into the product.**
Loose connectors can cause unstable operation. In particular, if the 6-slot connector is not fully inserted into the product, the contact resistance will increase, which can result in increased heat transfer. Always confirm that your connectors are secured properly before using this product.
- **The YELLOW wire is used for door lock control by a VISION 1460 or 1480 security system.**
Please consult the 1460 or 1480 product guides for more information about how the Yellow (GWA output) wire works. If a third party alarm has a continuous Ground-When-Armed output, you can of course connect that to the Yellow wire on the 318-16R.

INCLUDED ITEMS

318-16R Module



2-sided Tape



Control Harness



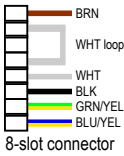
5-slot connector

Standard Harness



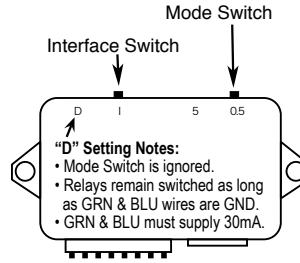
8-slot connector

Multiplex Harness



8-slot connector

SWITCH SETTINGS



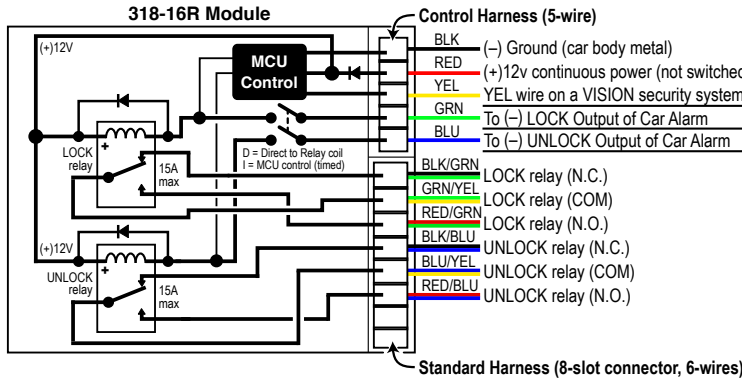
Mode Switch
Used to switch the operating time of the Lock / Unlock relay. Please keep it in the factory default position of "0.5" seconds for most cars.

Interface Switch
Default "I" setting connects the GRN & BLU wires to the MCU for timed Relay control as per the Mode Switch. "D" setting ties the GRN & BLU wires directly to the Relay Coil's GND.

"D" Setting Notes:

- Mode Switch is ignored.
- Relays remain switched as long as GRN & BLU wires are GND.
- GRN & BLU must supply 30mA.

WIRING OVERVIEW of Control Harness & Standard Harness



NOTE

The YEL wire is the line ONLY used when connecting the 318-16R to a car alarm that does NOT have negative door lock control outputs. Never use the YEL wire when using the LOCK (GRN) or UNLOCK (BLU) wires.

NOTE

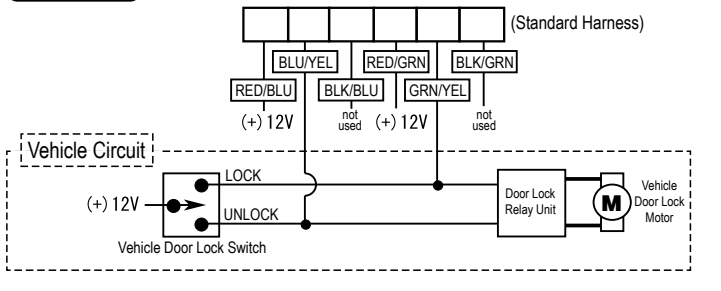
Connect the LOCK (GRN) & UNLOCK (BLU) wires only to (-) negative door lock control outputs of a car alarm, and ensure the Interface SW is set to "I". Never use the YEL wire when using LOCK (GRN) & UNLOCK (BLU) wires.

INSTALLATION BY DOOR LOCK TYPE

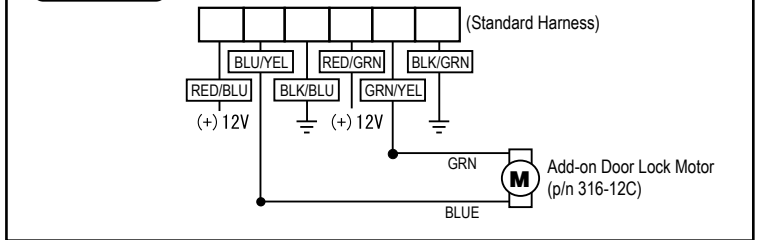
Door Lock Interface Types are classified as A through F, in addition to Toyota Multiplex. Contact us about your car if you are unsure.

NOTE! In addition to the wiring below, you must also connect the CONTROL HARNESS wires too (see above).

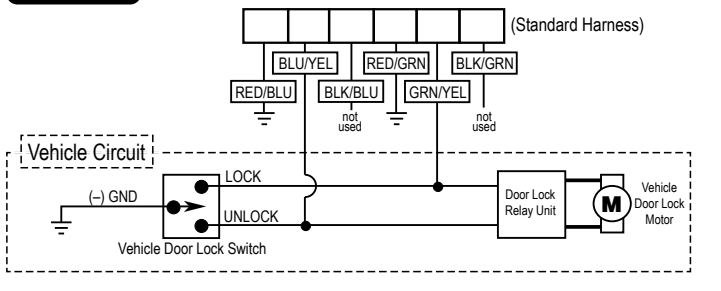
Type-A Positive (+)12v Locking Systems



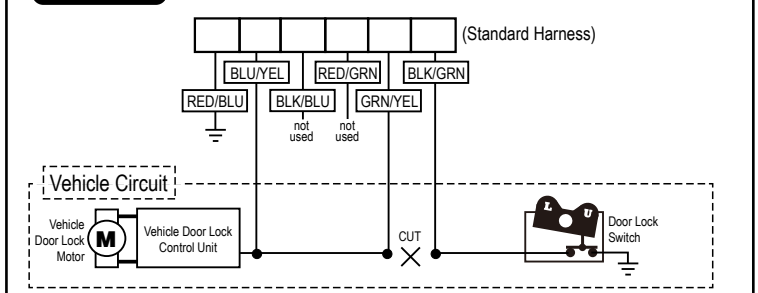
Type-D Add-on Door Lock Motors



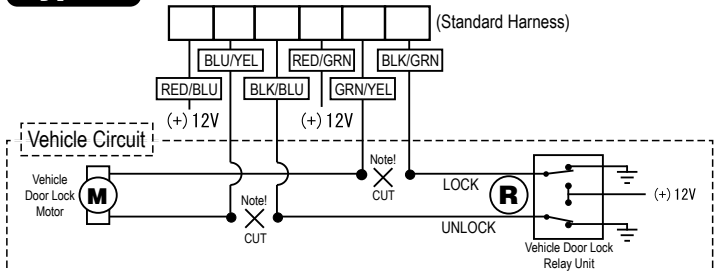
Type-B Negative (-)GND Locking Systems



Type-F Single Wire Locking Systems



Type-C Reversing Polarity Locking Systems



Note!

Connecting the wires exactly as above is critically important. If for example you make a mistake by connecting GRN/YEL to the Relay side and BLK/GRN to the Motor side, you will cause a short and damage the 318-16R!

Multiplex Used on some Toyota vehicles

