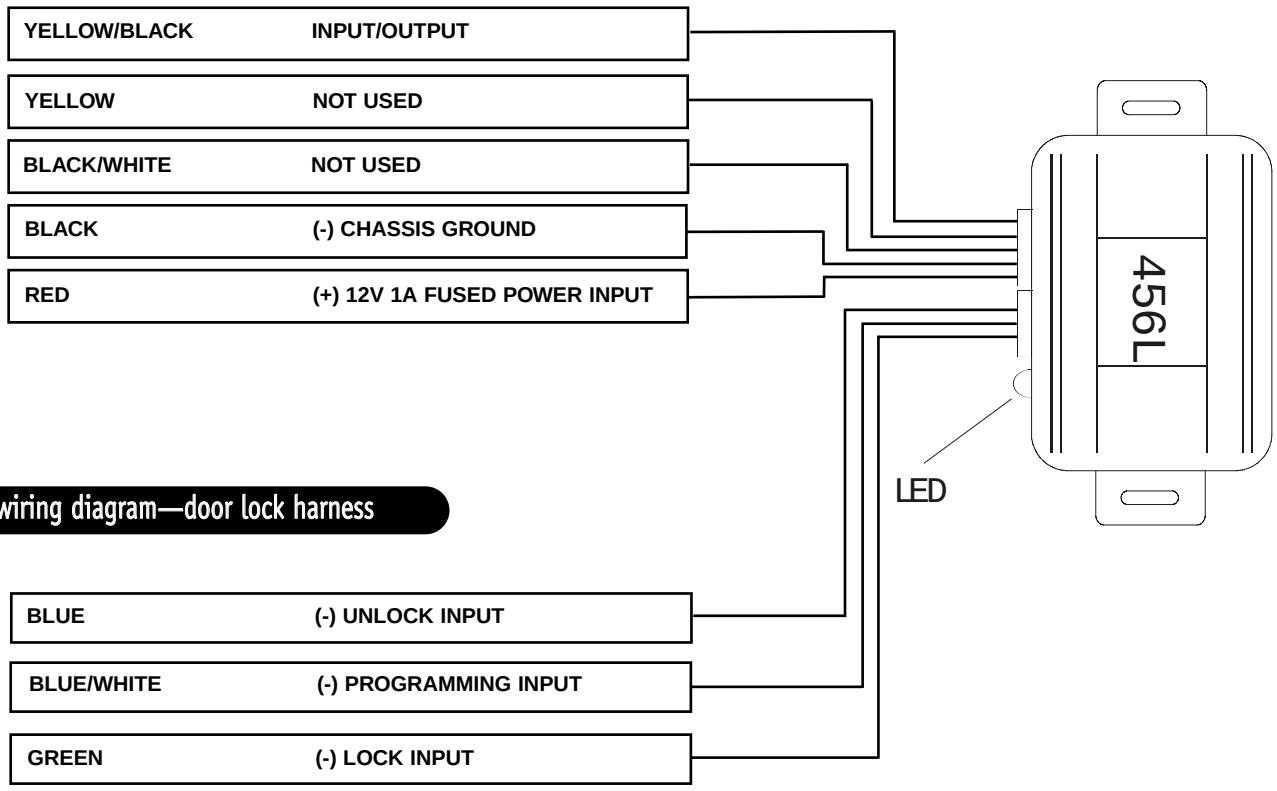
456L DOOR LOCK RESISTANCE LEARNING MODULE

IMPORTANT! *Please read this installation guide thoroughly before installing the 456L. Use only a high quality digital multimeter for testing. This product connects to the vehicle's low voltage signal wire and improper installation or testing can result in damage to the vehicle. Never use a test light or logic probe to test wires in the vehicle!*

The 456L interfaces with all one-wire resister type door lock systems. It can learn both the positive or negative resistances and output the appropriate resistance into the system.

wiring diagram—main harness



wiring diagram—door lock harness

wire descriptions

Yellow/Black - This is a dual purpose wire. It is used to learn both the polarity and the resistance of the door locking system you are working with. It also is used to transmit that polarity and resistance during a lock or unlock command from the alarm/keyless unit. Connect this wire to the door lock wire in the vehicle.

Note: *Use of T-Taps or Scotch Locks is not recommended.*

Yellow - Not used.

Black/White - Not used.

Black (chassis ground) - Attach this wire to the body of the vehicle. Do NOT attach it to the under-dash bracing or to the steering column of the vehicle. Use the kick panel or the firewall for a grounding point. Scrape away paint to expose bare metal. Do NOT ground at the same point as the factory ground.

Red - Attach this wire to a constant 12 volt source fused at 1 amp.

wire description - door lock harness

Blue - Attach this wire to the negative output from the keyless/alarm system. A negative input on this wire will produce the correct unlock resistance and polarity on the Yellow/Black wire.

Blue/White - This is the programming input wire (refer to *Programming* section).

Green - Attach this wire to the negative output from the keyless/alarm system. A negative input on this wire will produce the correct lock resistance and polarity on the Yellow/Black wire.

programming

The first step of programming requires you determine where your lock/unlock wire originates. It may be the rocker switch on the door or the key cylinder in the door. You ***MUST*** know which you are using to properly program the 456L.

learning lock procedure

1. Ensure the module is completely hooked up, including the Yellow/Black.
2. Hold the Blue/White wire to ground until the LED comes on solid.
3. Release the Blue/White wire from ground. Tap the Blue/White wire to ground once and release and continue with step 4.
4. Hold the Blue/White to ground.
5. The LED will blink in groups of one.
6. While holding ground to the Blue/White wire activate the lock action in the vehicle and hold for a full second. The LED will illuminate continuously when the system is learned.
7. Release the vehicles lock activation. Remove the Blue/White from ground Lock is learned.

learning unlock procedure

1. Ensure the module is completely hooked up, including the yellow/black.
2. Hold the blue/white wire to ground until the LED illuminates continuously.
3. Release the blue/white from ground.
4. Tap the blue/white to ground and release.
5. Tap the blue/white wire to ground again and release.
6. Hold the blue/white to ground.
7. The LED will be blinking in groups of two.
8. While holding ground to the blue/white wire activate the unlock action in the vehicle and hold for a full second. The LED will illuminate continuously when the system is learned.
9. Release the vehicles unlock activation. Remove the blue/white from ground Unlock is learned.

Note: *In some vehicles the signal can be very quick and weak, thus causing the 456L to not learn properly. If this happens, cut the lock/unlock wire in the vehicle, making sure the Yellow/Black from the 456L is on the switch side of the wire. Re-enter the learn routine and learn the resistances properly. Once complete, restore the vehicles lock/unlock wire.*