



# AS-9501a

INSTALLATION GUIDE FOR:

# KEYLESS ENTRY CHANNEL CREATOR WITH ADJUSTABLE TIMER

Printed In Taiwan

Form No. 128-4808C

### INTRODUCTION:

The **AS-9501a** is a transistorized controlled "Keyless Entry Channel Creator" with an adjustable timed output of 0.8 to 60 seconds. This versatile Keyless Controlled unit will allow the safe operation of any device that is connected to its output. Some of the more popular circuits that may be connected to this unit are: Remote Start, Power window roll up, Power sunroof close, etc. The unique feature of this unit is that a series of Remote Keyless Entry Inputs will provide an output, i.e.. Lock, unlock, lock within 4 seconds in a two step factory configuration. This is necessary to prevent the connected device from accidentally being activated by the in vehicle door lock switch. If this safety feature is not required or desired, than the unit can be set to operate from a single input.

DIP SWITCH SETTINGS		
	ON	OFF
1	POSITIVE LOCK INPUT	NEGATIVE LOCK INPUT
2	2-STEP UNLOCK TWO WIRE	SINGLE STEP UNLOCK ONE WIRE

### POSITIVE OR NEGATIVE LOCK INPUT SELECTION : DIP SWITCH # 1

This unit can be programmed to accept either positive or negative lock input signals. This allows for proper installation into vehicles using 3 wire ground, 3 wire positive, and 5 wire alternating door lock systems.

**DIP SWITCH #1:** When this switch is selected to the on position, the unit will accept a positive trigger on the Orange Door Lock input wire. When this switch is selected to the off position, this wire will accept a negative trigger input.

### 1 OR 2 WIRE UNLOCK INPUT SELECTION : DIP SWITCH # 2

This unit can be programmed for single step, 'one wire' unlock or two-step, 'two wire' unlock configuration. Many OEM keyless entry systems use on-board door unlock relays, which usually results in the ability to unlock driver's door only and then unlock all doors.

**DIP SWITCH #2:** When this switch is selected to the on position, the control circuit will operate in a two step, two wire configuration. This is the controlled output operation mode. When this switch is selected to the off position, the control circuit will operate in a single step, one wire configuration mode.

**CONFIGURATION:** Two Step Factory Keyless Entry upgrade with +12 volt door locks.  
THIS INSTALLATION WILL REQUIRE THAT THE DIP SWITCHES BE SET TO 1 ON, 2 ON.

### WIRING:

- Red:** +12 volt Battery Source. Connect this wire to a + 12 volt constant battery source.
- Black:** Chassis Ground. Connect this wire to a clean solid metal chassis ground source in the vehicle.
- Orange:** Connect this wire to the lock control wire found at the vehicle driver's door motor. This is the wire that gets +12 volts when the door lock button on the factory keyless entry remote is depressed.
- Green:** Connect this wire to the unlock control wire found at the drivers door motor. This is the wire that gets +12 volts when the unlock button on the factory keyless entry remote transmitter is depressed the first time.
- Blue:** Connect this wire to the second unlock control wire found at any door **but** the driver's door. This is the wire that gets +12 volts when the unlock button on the factory remote transmitter is depressed two times.
- Note:** This wire will not have +12 volts when the unlock button on the factory transmitter is depressed only one time.
- Light Green Wire:** This wire will provide a low current ground signal when the factory keyless entry transmitter buttons are sequentially pressed in a Lock, Unlock, Lock pattern within 4 seconds. This wire will be connected to the trigger input of the device you wish to control. This output is capable of 500 mA maximum current. If the device you are connecting this wire to requires more than 500mA to operate, then a relay will be required. SEE FIG.# 1 for relay wiring configuration.

The duration of the ground signal on the Light Green Wire is fully adjustable from a minimum of 0.8 seconds (800ms), to a maximum of 60 seconds. This adjustment is controlled by the potentiometer located through the side of the module's case. Turning this adjustment clockwise will increase the output duration. Turning the adjustment counter clockwise will decrease the output duration.

**CAUTION:** This unit's potentiometer is capable of 180° rotation. DO NOT overturn this adjuster or damage will occur.

### Testing The Installation:

In this configuration, to test your installation, press the lock, unlock, then lock buttons on the factory transmitter within a 4 seconds time period. The accessory device should activate. Now enter the vehicle and press the in vehicle door lock switch in the same sequential pattern and be certain that the accessory device does not respond.

**CONFIGURATION:** Pulsed Ground Output from Aftermarket Remote Keyless or Alarm System.  
 THIS INSTALLATION WILL REQUIRE THAT THE DIP SWITCHES BE SET TO 1 OFF, 2 OFF.

**WIRING:**

**Red:** +12 volt Battery Source. Connect this wire to a + 12 volt constant battery source.  
**Black:** Chassis Ground. Connect this wire to a clean solid metal chassis ground source in the vehicle.  
**Orange:** Connect this wire to the pulsed ground output wire from the alarm system that is activated when an unused channel of the remote alarm is activated. This is normally the low current, ground trigger, 2nd or 3rd channel control wire. When dip switch #2 is selected to the off position only one trigger control wire is required, and in these cases the orange wire is used.  
**Green:** No connection is required for the green wire when using the **AS-9501a** as a single wire activated unit. Insulate the end of this wire with electrical tape.

**Blue:** No connection is required for the blue wire when using the **AS-9501a** as a single wire activated unit. Insulate the end of this wire with electrical tape.

**Light Green Wire:** This wire will provide a low current ground signal when the alarm or keyless entry transmitter button is pressed. This wire will be connected to the trigger input of the device you wish to control. This output is capable of 500 mA maximum current. If the device you are connecting this wire to requires more than 500mA to operate, then a relay will be required. SEE FIG.# 1 for relay wiring configuration.

The duration of the ground signal on the Light Green trace wire is fully adjustable from a minimum of 0.8 seconds (800ms), to a maximum of 60 seconds. This adjustment is controlled by the potentiometer located through the side of the module's case. Turning this adjustment clockwise will increase the output duration. Turning the adjustment counter clockwise will decrease the output duration.

**CAUTION:** This unit's potentiometer is capable of a maximum of 180° rotation. DO NOT overturn this adjuster or damage will occur.

**Testing The Installation:**

Press the appropriate transmitter button from the alarm system which controls the trigger wire connected to the Light Green trace wire of the **AS-9501a**. The **AS-9501a** will activate the accessory that it is connected to. Some timing adjustments may be required to make the accessory operate correctly.

