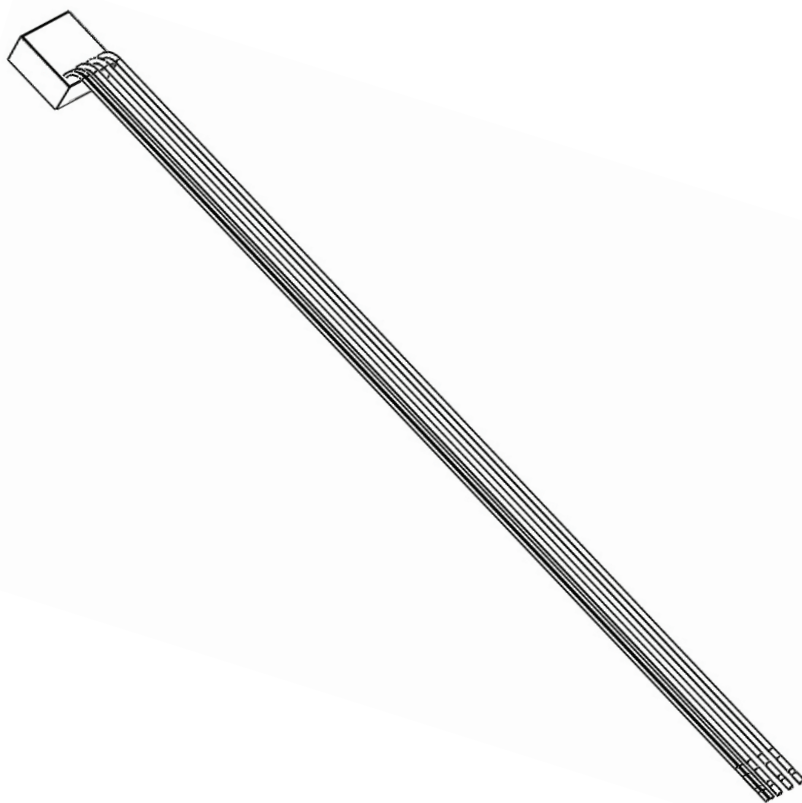


# LIGHT FLASHER



Installation manual



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# LIGHT FLASHER – DESCRIPTION

The Light Flasher is an electrical relay that is connected to the light and parking light controls as part of an ALCOLOCK alcohol interlock system. It is necessary in jurisdictions which require the vehicle lights to flash when the driver is late in providing a requested breath alcohol sample while operating their vehicle. The Light Flasher can handle either positive (+) or negative (-) connections to accommodate the electrical systems of all vehicles.

## INTRODUCTION

This manual provides instructions for the connection of the Light Flasher, used for the installation of ALCOLOCK alcohol interlock devices in certain jurisdictions. Instructions for both positive and negative connections are given.

### **ATTENTION!**

- This guide is intended for authorized service technicians only
- This guide is intended for use with an ALCOLOCK device installation manual
- Ensure that the vehicle is in park (or neutral with the parking brake engaged) and that there is sufficient ventilation for vehicle exhaust
- Ensure that the vehicle engine is turned off before installing the Light Flasher
- Do not connect the Light Flasher until the vehicle electrical system has been inspected
- Do not connect an ALCOLOCK auto cable to an ALCOLOCK device until all wiring is complete and visually verified
- The ALCOLOCK device, the Light Flasher and all cabling must not obstruct vehicle operation
- Keep the ALCOLOCK device, Light Flasher and all cabling away from components that move or that may become excessively hot
- Use existing hardware and holes where available to minimize vehicle modification
- All wire connections must be soldered, taped and sealed only after an ALCOLOCK device is installed and verified
- Do not use butt or clip connectors to seal wiring, as this may lead to corrosion and intermittent power / function

## ACS PARTS

- Light Flasher (79-009048)
- Tie wrap (26-000026)
- Heat shrink (79-000251)
- Tamper proof label (65-000070)
- Tamper proof screw (45-000054)

# CONNECTION STEPS

1. Locate and cut the wire that controls the light that you want to enable the flash on.
2. Strip 1-2 cm off the wire ends of the Light Flasher. Fit heat shrink (94-000251) over the purple, orange and brown wires.

3. For a POSITIVE connection:

With the vehicle ignition OFF, crimp and solder a ring terminal to the end of the black ground wire and then connect it to a vehicle body ground.

For a NEGATIVE connection:

With the vehicle ignition OFF, crimp and solder a ring terminal to the end of the red wire and then connect it to a vehicle body ground.

4. Use a tamper proof screw (45-000054) to connect the ring terminal to a vehicle ground point.

**ATTENTION! It is important that the ALCOLOCK device is installed and verified before any connections are soldered, taped and sealed.**

5. For a POSITIVE connection:

Twist the end of the Light Flasher red wire to a stripped section of the unswitched continuous power source (+12V) in the vehicle's main harness. Do not cut the power source wire.

For a NEGATIVE connection:

Twist the end of the Light Flasher black wire to a stripped section of the unswitched continuous power source (+12V) in the vehicle's main harness. Do not cut the power source wire.

6. Connect the Light Flasher orange wire to the orange wire in the ECU harness.
7. Connect the Light Flasher brown wire to the end of the light switch wire coming FROM the vehicle light switch.
8. Connect the Light Flasher purple wire to the end of the light switch wire going TO the parking light.

**ATTENTION! Do not continue to the next step until:**

- **Completing all ALCOLOCK auto-cable wiring connections**
- **Testing the installed ALCOLOCK device to ensure that it works correctly**

9. Solder and apply electrical tape (3M brand or equivalent) to all wiring connections, except for the vehicle ground.
10. Seal the heat shrink around all connections of the Light Flasher orange, brown and purple wires.

**11. For a POSITIVE connection:**

Wrap the tamper proof label (65-000070) over the Light Flasher red wire connection.

For a NEGATIVE connection:

Wrap the tamper proof label (65-000070) over the Light Flasher black wire connection.

**12. Place the tamper proof label over the ring terminal ground point.**

**13. Secure the Light Flasher and harness to the main vehicle and ECU harness using tie wraps. Make sure it will not obstruct any parts or affect the functionality of the vehicle.**

**The Light Flasher installation process is now complete.**

# WIRING SUMMARY

## POSITIVE CONNECTION

LIGHT FLASHER WIRE...	CONNECTED TO...
Black	Vehicle body ground
Red	Continuous, unswitched power source (+12V)
Orange	Orange wire in the ECU harness
Brown	Wire FROM the parking light switch
Purple	Wire TO the parking light

## NEGATIVE CONNECTION

LIGHT FLASHER WIRE...	CONNECTED TO...
Red	Vehicle body ground
Black	Continuous, unswitched power source (+12V)
Orange	Orange wire in the ECU harness
Brown	Wire FROM the parking light switch
Purple	Wire TO the parking light

