



Installation Guide

GPS vehicle security, recovery
and location awareness

Welcome!

The ESCORT® Entourage™ CIS vehicle security, recovery & GPS locator device powered by Blackline GPS™ is a state-of-the-art protection solution for cars, trucks, SUVs, minivans, RVs, motorcycles, and other vehicles.

Entourage CIS is conveniently installed in a hidden location within a vehicle. This ensures stealthy operation while continuing to deliver high performance GPS tracking. Entourage CIS must be hard-wired to a vehicle's 12 VDC or 24 VDC battery system.

Please note that Entourage CIS is designed for vehicles driven regularly and is not designed as a long-term storage security solution.

In the box

The following items are included within the Entourage CIS packaging.

- Documentation kit
- 1 Entourage CIS device with built-in 2 meter (6.5 feet) power cord
- 1 MyPass™ wireless key fob
- 2 wiring taps (for splicing into vehicle power)
- 1 set of Velcro® mounting fasteners
- 4 mounting screws

Installation

ESCORT recommends that an automotive service center perform this work for you. Installation time varies depending on the installation location and your vehicle model. Installation requires approximately 30 to 90 minutes.

Please read the following installation instructions before you begin.

Tools

To install Entourage CIS, you will need the following tools:

- Automotive test light
- Pliers
- Wire-strippers (optional)
- Phillips #2 Screwdriver (optional)
- Drill with a 1/8" (3mm) bit (optional)

Choose where to install Entourage CIS

Prior to installation, ensure that you and your customer agree upon the Entourage CIS installation location

When choosing a location to place the Entourage CIS device, consider the following:

- Choose a location near 12VDC or 24VDC power
- Choose a location within the vehicle that is **well hidden, but easily accessible for any possible future service**
- **Do not place in an obvious, clearly-visible location**, such as under the steering column or in the glove compartment
- **Do not** completely enclose Entourage CIS within metal or carbon fiber. This will affect tracking of GPS satellite signals and cellular (wireless) communication
- Entourage CIS must be installed inside the **interior of the vehicle**
- Entourage CIS **does not need to be mounted in direct view of satellites**
- You **may mount Entourage CIS behind** plastic panels, under upholstery, and behind wood or fiber-board
- Mount Entourage CIS so its top side (with the logo and button) **faces away from the mounting surface** and toward the interior of the vehicle (it's ok to be mounted upside down, if needed)
- For optimum GPS performance, it is critical that there is a minimum of **6" of clearance** between the Entourage CIS enclosure top and metallic surfaces/objects
- **Never** install Entourage CIS in a location that could interfere with an airbag, seatbelt, or the operation of other safety systems

Hardwiring Entourage CIS

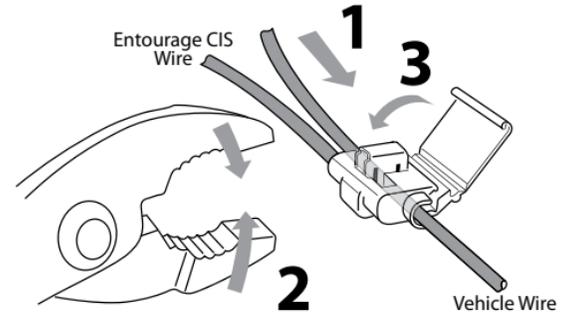
Entourage CIS is hardwired to the vehicle's power system with its built-in 2m (6.5') power cable. Entourage CIS is compatible with both **12 VDC** and **24 VDC** vehicle power systems. Entourage CIS **must** be wired to a continuous source of power that is not controlled by the ignition key. This ensures the internal **back-up battery is fully charged at all times.**

Entourage CIS consumes approximately 20 mA of current at 12 VDC. This is a small current draw, and is not sufficient to drain the vehicle's **battery provided that the vehicle is driven regularly.**

Entourage CIS features an internal fuse—an external fuse is not required.

The easiest method to hardwire Entourage CIS is as follows:

- Using the automotive test light, identify a **non-switched 12V / 24V wire** (a wire not controlled by the ignition key). **Please note:** Entourage CIS consumes up to 1A peak current in very short bursts.
- **Disconnect the negative connection to the vehicle's battery**
- Route the positive wire to the non-switched 12V / 24V wire
- Route the negative wire to a vehicle ground wire (or chassis ground)
- Place one of the supplied wiring taps over the vehicle's non-switched 12V / 24V wire
- Insert Entourage CIS's **un-stripped positive wire** into the wiring tap (see #1 in illustration)
- Use pliers to **compress the U-contact blade**, connecting the two wires (see #2 in illustration)
- Close the hinged top cover until securely latched (see #3 in illustration)
- Using the second wiring tap, repeat the same process for the ground wire



Other methods to hardwire Entourage CIS include:

- Wiring Entourage CIS directly to the vehicle's battery terminals. This is an advanced technique, and not described within this guide
- Hardwiring Entourage CIS to the vehicle's power system using soldering techniques. Soldering techniques are not described within this document. Consult an installation professional for more information

Verifying installation

Verifying Installation

To verify the installation at any time after the Entourage CIS has been connected to power:

- Ensure that the **ignition key is in the off position**
- Wait 5 seconds and then **press and release** the red Entourage CIS button

If the power cable has been **correctly connected**, the green indicator light will either blink slowly or turn on continuously for 2 minutes.

If the power cable has been **incorrectly connected**, either no indicator lights turn on or the red and green indicator lights will blink rapidly for 5 seconds. In this case:

- Power is not connected, or
- Power is connected with the incorrect polarity, or
- The circuit is controlled by the ignition key

Adjust the electrical connection, and verify again.

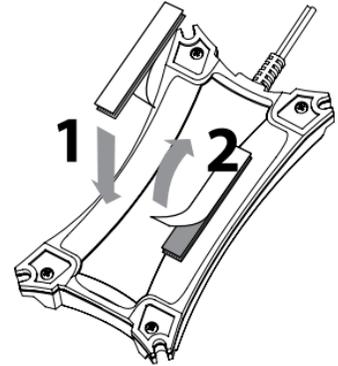
Entourage CIS indicator light sleep mode

Entourage CIS features a status indicator light sleep mode to ensure stealth operation. After a few minutes, the indicator lights will automatically turn off while the device continues to operate. To awaken the status lights, press the power button once and release.

Mounting Entourage CIS

There are two methods to mount Entourage CIS. The first uses the supplied Velcro fasteners:

- Ensure that the vehicle mounting surface is clean and dry
- Adhere the mated pair of Velcro fasteners to Entourage CIS as shown below (do not separate the Velcro-mated pair)
- Peel the adhesive backing and press Entourage CIS into place—**to allow adhesive to set, do not remove for 24 hours**



The second mounting method uses the supplied screw fasteners:

- Use the Entourage CIS enclosure as a template to mark the screw locations on the mounting surface
- Pre-drill screw holes with a 1/8" (3mm) drill bit
- Holding the Entourage CIS enclosure over the pre-drilled holes, fasten it into place using the screws and a screw driver
- Tighten the screws until they are firmly in place. **Do not over-tighten**

Helpful information is available at www.BlacklineGPS.com/support. Additional resources are available online from within your network account located on the Help page.

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