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1. INTRODUCTION
This document describes the installation outline and detail for the SideTrack System, which is
designed to provide security and multi-purpose solutions for real-time control and security
management of a vehicle. The SideTrack System is a new type of flexible dynamic tracker and
controller system geared specifically towards car security & accessory management. Using an
internet enabled computer, or internet connected smart phone or Pocket PC, the user or
installer can specifically control a compatible alarm system installed in the vehicle or control
accessories connected to the Side Track unit. The user can also locate the current vehicle
location on a street level map as well as view and monitor other vital vehicle data. The
SideTrack device establishes a three-way communication with the vehicle hardware, sidetrack
sever and the remote user.

1.1 Disclaimer
The information contained in this document is accurate at time of release. However, as Connect2Car Inc, is
committed to continued research and development activities, these specifications may change from time to
time.

The present manual by Connect2Car Inc reflects the present state of the art of the products described
within. We have endeavored to give a description that is as complete and clear as possible in order to make
work with our products as easy as possible for you. All the same, the manual may contain technical
inaccuracies and typing errors. As a result of the rapid advance in the art, we must also reserve the right to
incorporate technical alterations and developments without separate advance notice.

Connect2Car Inc does not give any warranty for the contents of the manual and for its continuing
applicability. Nor is Connect2Car Inc. liable for any loss that might result from consultation of this manual.
Particularly, Connect2Car Inc is not liable for damage, nor indirect damage (including damage caused by
financial loss, and similar consequences), arising from the use or improper use of this product, not even in
the case where it was pointed out to Connect2Car Inc or an agent of Connect2Car Inc that such damage
might be sustained.

Contact your Connect2Car representative, should you require clarification on information contained in this
document or to request of copy of the latest version of this document. You can also visit
www.connect2car.com for all the latest information/product manuals and documentation.

1.2 Copyright
The SideTrack System Installation Manual is Copyright by Connect2Car Inc, with all rights reserved. No part
of this manual may be reproduced in any form without the prior written approval of Connect2Car Inc.

1.3 Safety Issues
It is important that you read these simple guidelines carefully before use, to ensure the safe operation of the
module. The SideTrack System should be installed by a professional automotive electronics installer.

The fact that there is unlimited control through the tracking software on the Connect2Car website; it could
give rise to one putting the accessories in and unconditional or dangerous state. E.g. (cranking the ignition of
a manual transmission vehicle in gear, disabling ignition or fuel, controlling moving parts without caution,
e.g. window, door poppers, hydraulics, linear actuators, etc). Because of this unforeseen multi-functionality,
Connect2Car Inc. CANNOT VALIDATE NOR ENSURE THAT ANY OR ALL SAFETY REQUIREMENTS ARE MET DURING
INSTALLATION AND THEREFORE ACCEPTS NO RESPONSIBILITY FOR THE INSTALLATION OR LOSS CAUSED BY THE
INSTALLATION OR USE OF THE SIDETRACK SYSTEM. ANY TRACKED MISSING VEHICLES SHOULD BE REPORTED TO
AUTHORITIES IMMEDIATELY. DO NOT TAKE THE LAW INTO YOUR OWN HANDS.
2. Technical Support
For all technical support, please contact Connect2Car Inc. via support@connect2car.com or call (914) 239-3829. Your questions will be prioritized and responded to in a professional and prompt manner. Please also check out the FAQ section on the website at www.connect2car.com

2.1 GLOSSARY OF TERMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>ABBREVIATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEM</td>
<td>ORIGINAL EQUIPMENT MANUFACTURER</td>
</tr>
<tr>
<td>GND</td>
<td>ELECTRICAL VOLTAGE GROUND REFERENCE POINT</td>
</tr>
<tr>
<td>PC</td>
<td>PERSONAL COMPUTER</td>
</tr>
<tr>
<td>GPS</td>
<td>GLOBAL POSITIONING SYSTEM</td>
</tr>
<tr>
<td>FAQ</td>
<td>FREQUENTLY ASKED QUESTIONS</td>
</tr>
</tbody>
</table>

2.2 SYSTEM OVERVIEW

The user interface to the vehicle is on the internet ready computer, smart phone or Pocket PC device. The mobile device or PC acts as a tool to hold, configure and deploy the commands which are actually run in real time on the hardware controller while reporting status of activities back to the user.

Sample commands include doors lock/unlock, remote auto-start, 1 aux for trunk release (or other applicable accessories) and vehicle ignition and fuel disable/enable.
3. Mounting the Mobile Receiver & SideTrack unit

You can mount the SIDETRACK unit almost anywhere that is discrete and secure from potential threat. Usually you would want to mount it far away from the car alarm itself. For the mobile receiver, you would want to mount it in an area where it’s accessible but not outright visible. Example areas are; rear deck, behind rear seat, trunk, quarter panel, under the dashboard, etc... The receiver can be somewhere close to the SIDETRACK unit, but yet in a place where it can get good reception.

You can view the cell tower signal power status as well as the GPS satellite status directly from the mobile screen, or you can also monitor from the MODEM or GPS LED’s for status.

The SideTrack software harnesses the power of cell tower assist in the GPS positioning. With cell tower assist, you do not need a direct sky view to get a GPS lock. So you can put the mobile phone unit in an enclosed or “not so open” location and still get good lock. Play around with different convenient areas of the vehicle. Sometimes it might take up to 10mins to reacquire a lock after you have relocated the unit.
4. SIDETRACK features

4.1 GENERAL FEATURES:
- 8 Outputs
- Siren Input
- Tachometer Input
- Serial Interface
- USB charger port, for mobile receiver device with USB charging cable
- Status/Indicator LED’s showing power and active serial or functionality Data status

4.2 DETAILED SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Outputs</th>
<th>ACC CUT-OFF FUEL CUT-OFF</th>
<th>(+/-) Internal Relay (Max 12v, 30A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Negative Triggers (-500mA max)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use external relays if needed.</td>
</tr>
<tr>
<td>POWER</td>
<td>12-18v</td>
<td></td>
</tr>
<tr>
<td>USB CHARGING</td>
<td>5V(max 5amps)</td>
<td></td>
</tr>
<tr>
<td>Tracking Receiver</td>
<td>Serial Port Profile (SPP) Only</td>
<td>Mobile GPS Receiver</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SIMS CHIP/CDMA Technology</td>
</tr>
<tr>
<td>Serial Port</td>
<td>Mechanical: 9 pin DSUB connector (female)</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL DIMENSIONS</td>
<td>SIDETRACK UNIT</td>
<td>5” x 3.75” x 1”</td>
</tr>
</tbody>
</table>
4.3 Tracking System without Alarm

<table>
<thead>
<tr>
<th>PIN#</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN#1</td>
<td>RED</td>
<td>(+) POWER 12V DC INPUT</td>
</tr>
<tr>
<td>PIN#2</td>
<td>BLACK</td>
<td>(-) GROUND INPUT</td>
</tr>
<tr>
<td>PIN#3</td>
<td>GREEN</td>
<td>FUEL CUT-OFF</td>
</tr>
<tr>
<td>PIN#4</td>
<td>YELLOW</td>
<td>ACC CUT-OFF</td>
</tr>
<tr>
<td>PIN#5</td>
<td>PINK</td>
<td>GPS LED</td>
</tr>
<tr>
<td>PIN#6</td>
<td>ORANGE</td>
<td>WIRELESS MODEM LED</td>
</tr>
<tr>
<td>PIN#7</td>
<td>BROWN</td>
<td>TACHOMETER INPUT</td>
</tr>
<tr>
<td>PIN#8</td>
<td>WHITE</td>
<td>PINS (3-6) / ACC (1-4) SOURCE INPUT (+) or (-)</td>
</tr>
<tr>
<td>PIN#9</td>
<td>GRAY</td>
<td>FIRST EXTRA OUTPUT FOR 12 VOLT ACCESSORY</td>
</tr>
<tr>
<td>PIN#10</td>
<td>LT. BLUE</td>
<td>ARM (LOCK DOORS) OUTPUT</td>
</tr>
<tr>
<td>PIN#11</td>
<td>BLUE</td>
<td>DISARM (UNLOCK DOORS) OUTPUT</td>
</tr>
<tr>
<td>PIN#12</td>
<td>PURPLE</td>
<td>SECOND EXTRA OUTPUT FOR 12 VOLT ACCESSORY</td>
</tr>
</tbody>
</table>
### 4.4 Tracking System with Alarm

<table>
<thead>
<tr>
<th>PIN#</th>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN#1</td>
<td>RED</td>
<td>(+) POWER 12V DC INPUT</td>
</tr>
<tr>
<td>PIN#2</td>
<td>BLACK</td>
<td>(-) GROUND INPUT</td>
</tr>
<tr>
<td>PIN#3</td>
<td>GREEN</td>
<td>FUEL CUT-OFF</td>
</tr>
<tr>
<td>PIN#4</td>
<td>YELLOW</td>
<td>ACC CUT-OFF</td>
</tr>
<tr>
<td>PIN#5</td>
<td>PINK</td>
<td>GPS LED</td>
</tr>
<tr>
<td>PIN#6</td>
<td>ORANGE</td>
<td>WIRELESS MODEM LED</td>
</tr>
<tr>
<td>PIN#7</td>
<td>BROWN</td>
<td>TACHOMETER INPUT</td>
</tr>
<tr>
<td>PIN#8</td>
<td>WHITE</td>
<td>PINS (3-6) / ACC (1-4) SOURCE INPUT (+) OR (-)</td>
</tr>
<tr>
<td>PIN#9</td>
<td>GRAY</td>
<td>START IGNITION (Turn-on Engine)</td>
</tr>
<tr>
<td>PIN#10</td>
<td>LT. BLUE</td>
<td>ARM (Lock Doors) OUTPUT</td>
</tr>
<tr>
<td>PIN#11</td>
<td>BLUE</td>
<td>DISARM (Unlock Doors) OUTPUT</td>
</tr>
<tr>
<td>PIN#12</td>
<td>PURPLE</td>
<td>SECOND EXTRA OUTPUT FOR 12 VOLT ACCESSORY</td>
</tr>
</tbody>
</table>

---

**Diagram:**

- **Tracker**
- **Receiver/USB Port**
- **GPS LED**
- **Modem LED (±)**
- **LED**
- **Start Activation (Gray Wire)**
- **Arm Out (Lt. Blue)**
- **Disarm Out (Blue Wire)**
- **LOCK INPUT WIRE**
- **UNLOCK INPUT WIRE**
- **Connecting Pins (A)**
- **Connecting Pins (B)**
- **Car Battery**
- **FUEL POWER WIRE**
- **ACC POWER WIRE**
- **TACH POWER WIRE**
- **12V**
- **GROUND (Black Wire)**
- **FUEL POWER WIRE**
- **ACC POWER WIRE**
- **TACH WIRE**
- **START INPUT WIRE**
- **MODEM LED (±)**
- **TACH (Brown Wire)**
- **Car**
- **USB Port**
- **SIREN [± In] (Brown Wire)**
- **Green Power L.E.D.**
- **Yellow Serial Data L.E.D.**
- **TACHOMETER INPUT**

---

*Need Relays / Powered by PIN#8 (Source Wires ±) or (-)*
5. GENERAL WIRING HARNESS:

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Function/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1a</td>
<td>RED</td>
<td>(+) 12V DC MAIN POWER (user 7A fuse)</td>
</tr>
<tr>
<td>6.1b</td>
<td>BLACK</td>
<td>(-) CHASSIS GROUND INPUT</td>
</tr>
<tr>
<td>6.1c</td>
<td>GREEN</td>
<td>FUEL CUT-OFF (+12V output to Fuel cutoff relay)</td>
</tr>
<tr>
<td>6.1c</td>
<td>YELLOW</td>
<td>ACC CUT-OFF (+12V output to ACC cutoff relay)</td>
</tr>
<tr>
<td>6.1c</td>
<td>PINK</td>
<td>GPS LED (+12V LED output)</td>
</tr>
<tr>
<td>6.1c</td>
<td>ORANGE</td>
<td>WIRELESS MODEM LED (+12V led output)</td>
</tr>
<tr>
<td>6.1d</td>
<td>BROWN</td>
<td>TACHOMETER INPUT</td>
</tr>
<tr>
<td>6.1e</td>
<td>WHITE</td>
<td>(+) 12V SOURCE INPUT</td>
</tr>
<tr>
<td>6.1f</td>
<td>GRAY</td>
<td>REMOTE START ACTIVATION (Triggers Remote Starter) (-500mA max)</td>
</tr>
<tr>
<td>6.1f</td>
<td>LT.BLUE</td>
<td>ARM (DOOR LOCK) OUTPUT (-500mA max)</td>
</tr>
<tr>
<td>6.1f</td>
<td>BLUE</td>
<td>DISARM (DOOR UNLOCK) OUTPUT (-500mA max)</td>
</tr>
<tr>
<td>6.1f</td>
<td>PURPLE</td>
<td>EXTRA OUTPUT FOR 12V ACCESSORY (-500mA max)</td>
</tr>
</tbody>
</table>

![Diagram of wiring harness connections](image-url)
6. CONNECTOR AND WIRING DETAILS

6.1 MAIN HARNESS 12-PIN CONNECTOR

6.1a Pin 1 - Red (+) Constant Power Input
This wire supplies the main power for the SideTrack and must be fused. *Before connecting make sure P2-Black is wired to a solid chassis ground.* Connect this wire to a 12V constant battery power source.

6.1b Pin 2 - Black (-) Chassis Ground
Connect this wire to the battery negative terminal or electrical ground of the vehicle (usually the metal chassis). Make sure this wire has a solid connection and does not move around.

6.1c Pins (3-6) - Green/Yellow/Pink/Orange
These connectors are outputs from the four SideTrack internal relays (rated up to 12v @ 30amps peak). The wires can all output a (+) or (-) signal depending on what the source input wire is connected to. (Pin 8 - White wire)
Outlined default in for Pin 8 is +12v source.
• Pin 3 (GREEN) FUEL CUT-OFF - use this wired to activate the fuel cut-off relay
• Pin 4 (Yellow) ACC CUT-OFF - use this wire to activate the Accessory cut-off relay
• Pin 5 (PINK) GPS LED - connect this wire to the GPS status LED wires (This LED will light up if there is a GPS lock from the Tracking System
• Pin 6 (ORANGE) MODEM - connect this wire to the GPS modem LED wires. (This LED will light up if there is an active data connection from the Tracking system).

6.1d Pin 7 - Brown - Tachometer Input
With this wire connected to the vehicles tachometer signal wire, it will allow you to get an RPM read out on the SideTrack web site, as well as monitor RPM locally from on the phone screen. The engine online/offline indicator uses the RPM to detect engine state. If engine status is not needed, this wire can be left disconnected.

6.1e Pin 8 - White (+) or (-)
Connect this wire to +12V with an inline 30A fuse. *This wire is sources the input for the internal relays that control Pins 3, 4, 5, and 6. If connected to a 12V+, the outputs of pins 3-6 will then be 12V+. If connected to a (-) chassis ground pins 3-6 will then be (-). This wire must be fused with a 30A max fuse to protect the vehicle and Tracker Unit incase of a short.*

6.1f Pins (9-12) Gray/Light Blue/Blue/Purple
These four wires will supply a 500ma (-) output and in most cases will require the use of external relays. You can use these to directly trigger an accessory that requires a 500ma (-) or less trigger. If you are not sure of the trigger current needed, you should connect these outputs to an external relay, where by the relay coil is grounded by this output.
• PIN 9 (GRAY START ACTIVATION ) connect this wire to the start activation input wire on the alarm device
• PIN 10 (LIGHT BLUE ACTIVATION) connect this wire to the arm input wire on the alarm device
• PIN 11 (BLUE UNLOCK) connect this wire to the disarm input wire on the alarm device
• PIN 12 (PURPLE FLASH) connect this wire to any extra component you feel is necessary. (Trunk, windows, door poppers, lights, etc... The default setup is a single pulse on this output. You can change if needed.)
6.2 **DB9 SERIAL PORT**
This connector is used to transfer data & commands. Connect the DB9 serial data link cable from the mobile receiver to the SIDETRACK unit.

6.3 **USB PORT**
This connector allows you to charge the mobile receiver & the external battery. Connect the USB cable to the USB port on the SIDETRACK unit and to the serial data link cable’s auxiliary input port, labeled CHARGE on the mobile receiver.

6.4 **POWER AND SERIAL DATA LED INDICATOR**
The LED’s can be mounted anywhere for visible indication. The green LED signifies power to the SIDETRACK unit and the yellow LED signifies that the SERIAL cable link is active.
connect2car.com

Connect2Car, Inc.
540 Nepperhan Avenue
Suite 580A
Yonkers • NY • USA
Tel: 914.751.6426
Fax: 914.239.3250

Connect2Car Tech Support
US: 914.239.3826

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