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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

ABBREVIATION	DESCRIPTION
OEM	ORIGINAL EQUIPMENT MANUFACTURER
GND	ELECTRICAL VOLTAGE GROUND REFERENCE POINT
PC	PERSONAL COMPUTER
GPS	GLOBAL POSITIONING SYSTEM
FAQ	FEQUENTLY ASKED QUESTIONS

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:

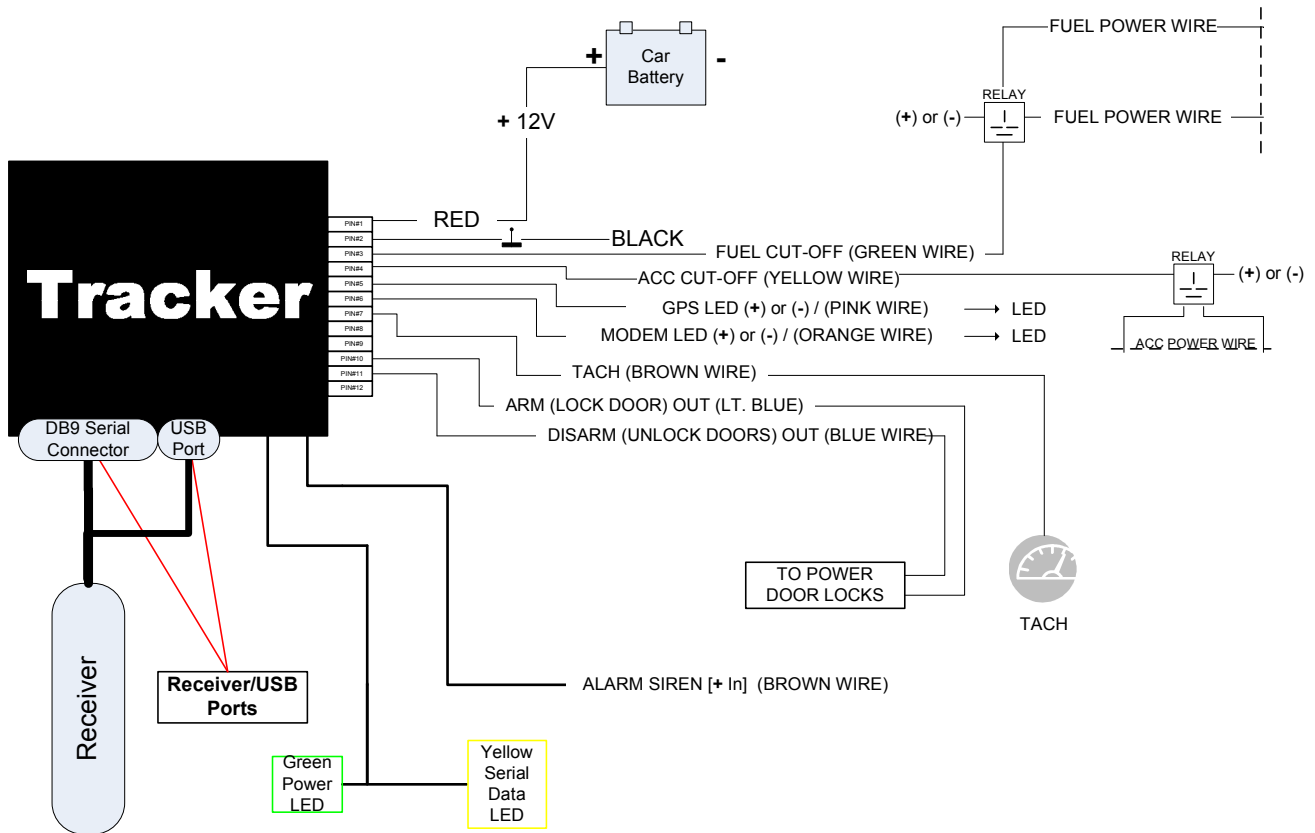
- 8 Outputs
- Siren Input
- Tachometer Input
- Serial Interface
- USB charger port, for mobile receiver device with USB charging cable
- Status/Indicator LED's showing power and active serial or functionality Data status

4.2 DETAILED SPECIFICATIONS:

Outputs	ACC CUT-OFF FUEL CUT-OFF	(+/-) Internal Relay (Max 12v, 30A)
		Negative Triggers (-500mA max) Use external relays if needed.
POWER	12-18v	
USB CHARGING	5V(max 5amps)	
Tracking Receiver	Serial Port Profile (SPP) Only Mobile GPS Receiver SIMS CHIP/CDMA Technology	
Serial Port	Mechanical: 9 pin DSUB connector (female)	
PHYSICAL DIMENSIONS	SIDETRACK UNIT	5" x 3.75" x 1"

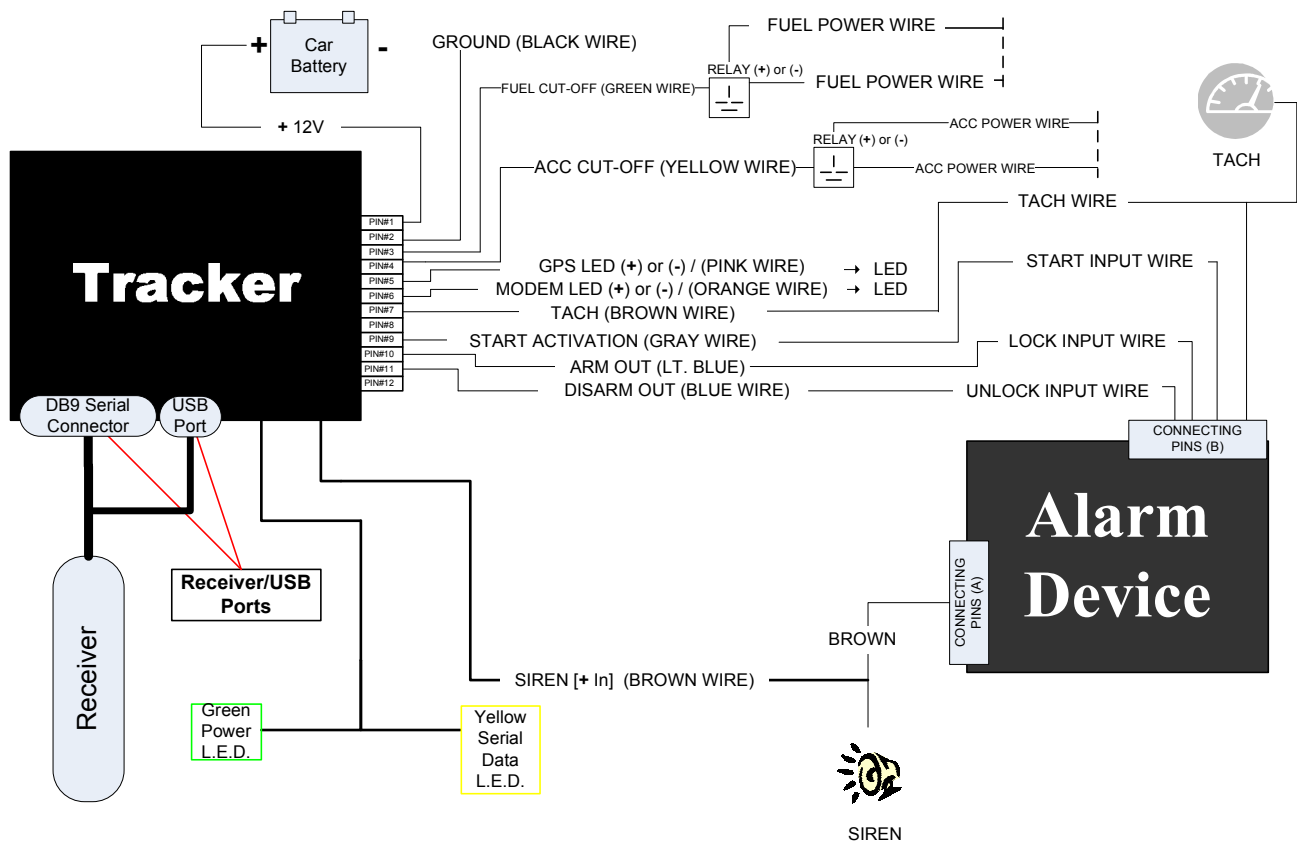
4.3 Tracking System without Alarm

TRACKER	PIN#1	RED	(+) POWER 12V DC INPUT	
	PIN#2	BLACK	(-) GROUND INPUT	
	PIN#3	GREEN	FUEL CUT-OFF	} Need Relays / Powered by PIN#8 [Source Wires (+) or (-)]
	PIN#4	YELLOW	ACC CUT-OFF	
	PIN#5	PINK	GPS LED	
	PIN#6	ORANGE	WIRELESS MODEM LED	
	PIN#7	BROWN	TACHOMETER INPUT	
	PIN#8	WHITE	PINS (3-6) / ACC (1-4) SOURCE INPUT (+) OR (-)	
	PIN#9	GRAY	FIRST EXTRA OUTPUT FOR 12 VOLT ACCESSORY	
	PIN#10	LT. BLUE	ARM (LOCK DOORS) OUTPUT	
	PIN#11	BLUE	DISARM (UNLOCK DOORS) OUTPUT	
	PIN#12	PURPLE	SECOND EXTRA OUTPUT FOR 12 VOLT ACCESSORY	



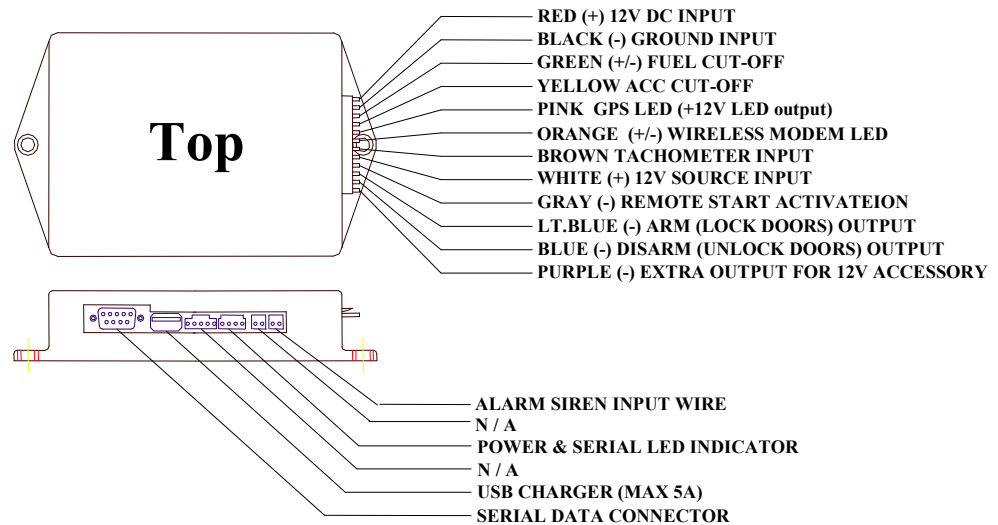
4.4 Tracking System with Alarm

TRACKER	PIN#1	RED	(+) POWER 12V DC INPUT	
	PIN#2	BLACK	(-) GROUND INPUT	
	PIN#3	GREEN	FUEL CUT-OFF	} Need Relays / Powered by PIN#8 [Source Wires (+) or (-)]
	PIN#4	YELLOW	ACC CUT-OFF	
	PIN#5	PINK	GPS LED	
	PIN#6	ORANGE	WIRELESS MODEM LED	
	PIN#7	BROWN	TACHOMETER INPUT	
	PIN#8	WHITE	PINS (3-6) / ACC (1-4) SOURCE INPUT (+) OR (-)	
	PIN#9	GRAY	START IGNITION (Turn-on Engine)	
	PIN#10	LT. BLUE	ARM (Lock Doors) OUTPUT	
	PIN#11	BLUE	DISARM (Unlock Doors) OUTPUT	
	PIN#12	PURPLE	SECOND EXTRA OUTPUT FOR 12 VOLT ACCESSORY	



5. GENERAL WIRING HARNESS:

	Pin	Wire Color	Function/Description
6.1a	1	RED	(+) 12V DC MAIN POWER (user 7A fuse)
6.1b	2	BLACK	(-) CHASSIS GROUND INPUT
6.1c	3	GREEN	FUEL CUT-OFF (+12V output to Fuel cutoff relay)
6.1c	4	YELLOW	ACC CUT-OFF (+12V output to ACC cutoff relay)
6.1c	5	PINK	GPS LED (+12V LED output)
6.1c	6	ORANGE	WIRELESS MODEM LED (+12V led output)
6.1d	7	BROWN	TACHOMETER INPUT
6.1e	8	WHITE	(+) 12V SOURCE INPUT
6.1f	9	GRAY	REMOTE START ACTIVATION (Triggers Remote Starter) (-500mA max)
6.1f	10	LT.BLUE	ARM (DOOR LOCK) OUTPUT (-500mA max)
6.1f	11	BLUE	DISARM (DOOR UNLOCK) OUTPUT (-500mA max)
6.1f	12	PURPLE	EXTRA OUTPUT FOR 12V ACCESSORY (-500mA max)



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 LOCK)** 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.



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