

# APP-TRONICS

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## STEALTH INTERCEPTOR



Radar Detector and Laser  
Diffusion Upgrade Kit

**Operational Manual**

APP-TRONICS

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## Caution

Motorists are expected to exercise all due caution while using this product, and to obey all applicable traffic laws.

# Our Products & Services

## NDR-23



NDR-23 is the interior warnings component. It's a GPS locator with red light speed trap database and DVR recorder. It picks up the wireless signals from the front mounted radar detector and laser diffusers. Then displays those warnings.

## SmartNav 5 applicational rear view mirror



App-Tronics SmartNav 5 can be purchased allowing for driver to replace the NDR-23 with our flagship applicational rear view mirror. SmartNav 5 comes with the same wireless technology allowing it to be used as the interior component to the Stealth Interceptor.

## Interior Stealth GPS 309 Radar and Laser Detector



GPS 309 is our interior mounted Radar and Laser Detector, with speed and compass indicators. It still includes our red light camera and speed trap database.

## Contents: parts list



**Radar Detector,  
bracket, mounting screws  
and bolts. Zip ties for tying  
off extra wiring**



**Power harness  
for CPU/Wing  
Box**



**2 brackets, 4  
bolts, 4 locking  
washers and level**



**CPU/Wing  
Box-power  
supply for  
engine  
components**



**2 Laser  
Diffusers,  
mounted on  
front bumper  
of vehicle**

## Introduction:

### DESCRIPTION:

The SmartNav 5 or Stealth Upgrade kit is an additional option to App-Tronics SmartNav 5, NDR-23 and SmartNav 5 PND. All receiving the wireless alerts from the front bumper mounted radar detector and laser diffusers that come with the purchase of this Upgrade Kit.

The wireless technology allows for uninterrupted communication between components and an installation process under an hour. All components are completely incased with made easy connection points giving the ability to remove and reinstall with ease on your next vehicle purchase.

With over 3 years in development, dialing in set radar frequencies used by law enforcement and collecting the variable pulse data or VPR from laser guns used when targeting your vehicle. App-Tronics Stealth systems are the clear choice when installing and purchasing an integrated radar detector with laser diffusion.

### **Warning**

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Even though it is easy to install the unit, we still recommend you to find a professional to help if you don't feel comfortable doing it by yourself.

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## Overview of parts and connections

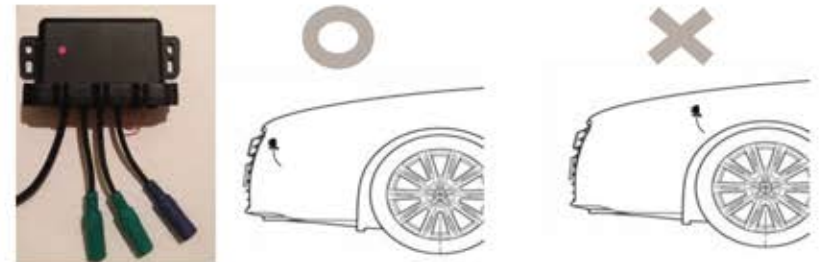
### Engine and Bumper Components.

The engine components include the CPU/Wing box, 2 laser diffusers, 1 radar detector and a wire harness to hook up to the power source. As well as the brackets, screws and zip ties for mounting and securing purposes.

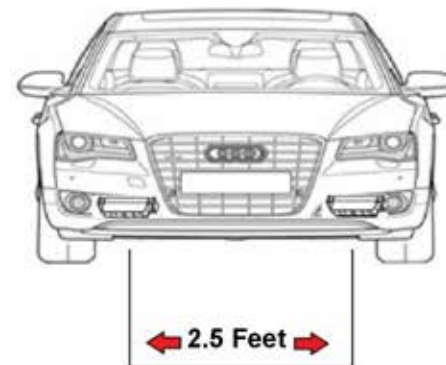


## Installation: Laser diffusers and CPU

1. Install CPU/Wing Box in Front of Vehicles radiator be sure the cables are **FACING DOWNWARD**. Use the supplied screws and or zip ties. The CPU/Wing Box is heat sensitive, so it's critical it stays in front of radiator and out of the engine compartment. **Do not install power harness yet.**

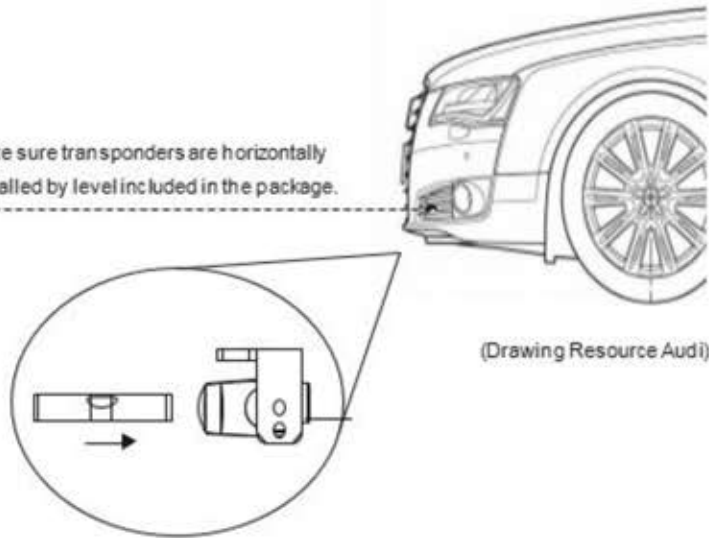


2. Next install the two (2) Laser diffusers, try and maximize the spacing between them up to 3 feet. Depending on the vehicle spacing it may be limited to a certain distance. **They must be flush with bumper to avoid the laser diode from having its projection blocked.**



3. Make sure the laser diffusers are positioned horizontal with the larger bulb to your left, use the screws and lock washers provided to secure the diffusers to their brackets. Use the level provided to ensure they are completely level for maximized protection.

Make sure transponders are horizontally installed by level included in the package.



4. Connect the green connectors from each diffuser to the green connectors on the CPU/Wing Box. **Be sure to match up the green arrows labeled on each of the connectors.** Use the provided zip ties to secure the extra wiring.



## Optional Rear Laser Diffusers not included

App-Tronics does not recommend installing Laser Diffusers on rear of vehicle. If you are engaged by law enforcement please check your speed and remain at or below posted speed limits at all times. Law enforcement will try and retarget your vehicle as you pass them. If you live in an area were Law Enforcement routinely targets just the back end of vehicles, then it may be a needed component.

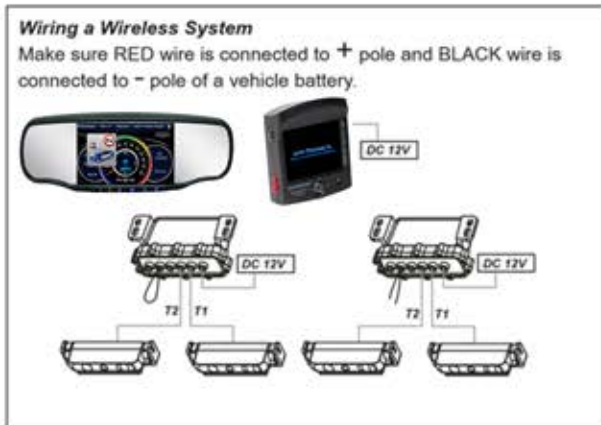
## Optional Installation Rear CPU/Wing Box and Diffusers

If you wish to add rear laser diffusion, email us at [info@app-tronics.com](mailto:info@app-tronics.com) or call us at 1-888-587-4111 to order a second CPU/Wingbox and laser diffusers.

Installation would require placement of the diffusers near or around the rear license plate and placing the CPU/Wingbox in the trunk area routing power as you did the front bumper system.

1. After you have received the second CPU/Wingbox and rear laser diffusers, take the provided laser head brackets and install in the desired location near or around the rear license plate.
2. Use the provided screws to attach the laser heads to the brackets then route the wires to the interior trunk.
3. Install the CPU/Wingbox inside the trunk using the provided screws and route the provided wire harness to the chosen power source.
4. Connect the two green connectors as shown with the front laser diffusers as shown earlier in this manual.

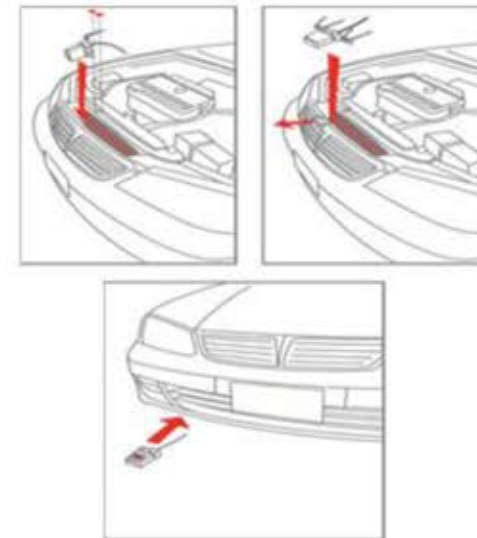
# Installation: Radar Detector



Here is a collection of laser/lidar guns we have tested. Our laser jammer works for other similar ones. The coverage is increasing and we always keep our products promptly updated.



1. Install Radar Detector with screws and bracket provided in locations seen below.
2. Make sure there is no metal blocking the direct sight of the Radar Detector.



3. Secure the extra wiring with cable ties provided.
4. Then connect the radars **blue connector to the blue connector on the CPU/Wing Box**. (From previous Chapter)



### **Warning**

Even though it is easy to install the unit, we still recommend you to find a professional to help if you don't feel comfortable doing it by yourself.

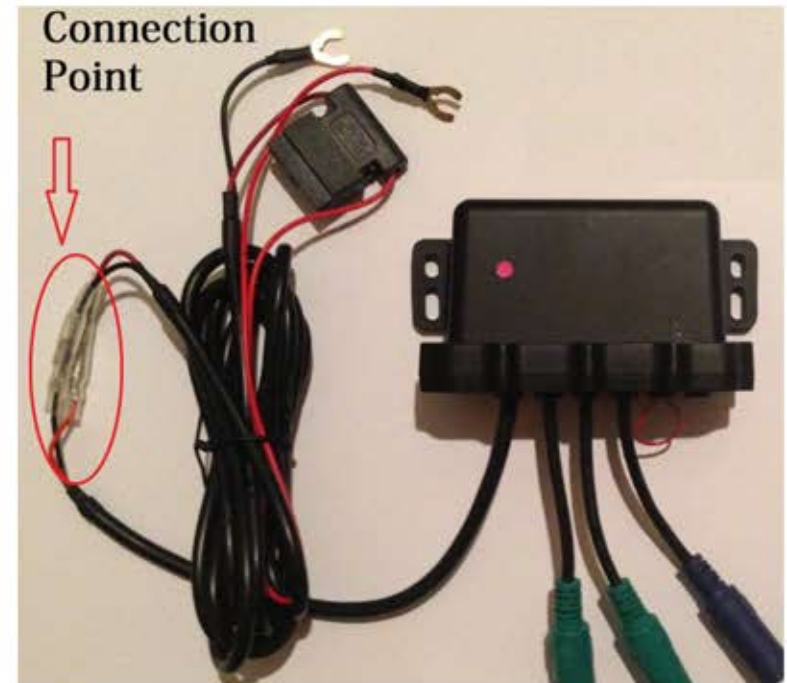
## **Power Supply**

### **Connection : CPU/Wing Box**

The final step for the Exterior components is connecting the CPU/Wing Box to your vehicles battery terminals. If your battery is located in trunk you should still be able to connect to the positive jump post and ground post. (See cars manual for locations).

1. Connect the wire harness to the CPU/wing Box, be sure to push in firmly and use the clear housing to cover your connections.

**For added protection wrap the connection with electrical tape.**



2. Route the CPU/Wing Box power harness to your power source, in this case it will be the cars battery terminals. The **Stealth Interceptor 2200is was designed not to draw from the cars battery till its started.** It must reach above 13 volts before it will turn on and draw the needed power to run the system. This was part of the easy installation process. There is no need to splice into any of your vehicles wiring to get power.
3. Loosen your battery terminals and attach to the corresponding positive (red wire) and the negative (black wire). Tighten your battery terminals down after each step.

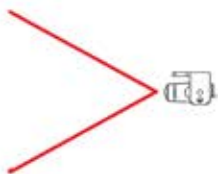
If you look at the front of the CPU/Wing Box while car is running and in park, you should faintly see a red LED glowing. This indicates power has been successfully supplied to system.

# A Few Quick Notes:

Double check that all your connection points are firmly pushed in and sealed, and that any extra wiring is secured neatly and out of the way of any moving parts.

Custom installation is not recommended for the Stealth Upgrade Kit. The installation we recommend is to give you maximized protection. We are aware of some installation procedures that have become more and more widely used. If you choose to do these variations below, be aware that you are not getting the full intended capabilities of our components.

1. If you choose to use 3M double sided tape to secure your diffusers instead of provided brackets, be sure to use the level and get them as close to level as you can. Trying to streamline the appearance of the diffusers is ok as long as you stay within the guidelines listed.
2. Our Stealth Laser diffusers consist of 1 high powered laser diode in each of the diffusers. If you choose to put behind your cars grilles (example BMW) please note that if you block the diode with even plastic it will not intercept law enforcements laser. If you must install this way try installing vertically within the grilles giving as much separation as possible with them being flush with the outside part of the grille.
3. Our Laser diffusers emit or cast their light beam in the shape of a V, therefore anything blocking the beam will effect the performance of the diffusers to disrupt law enforcements laser. Be sure to keep your diffusers flush with the front end of the vehicle so not to cut off the projection of the diffusers.
4. If you for example set the laser heads to far back inside the over hang of the front bumper, the broadcast of the light beam will be narrowed, not allowing it to pick up the incoming laser.



## Specifications of components

### Radar Detector

Input: DC 12V  
X band: 10.525 GHz  $\pm$  50 MHz  
K band: 24.050-24.250 GHz  $\pm$  100 MHz  
New K band: 24.125 GHz  $\pm$  100 MHz  
KA band: 33.70 ~ 35.60 GHz  
(Coverage can be adjusted in some regions.)  
LASER: 905nm  
Operation Temperature : - 13 degrees ~ + 125 degrees.

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This device complies with part 15 of FCC rules: Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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### Laser Diffusers

Input: DC 12V  
Laser Wavelength: 906nm  
Operation Temperature : - 13 degrees ~ + 168 degrees

### Danger

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*Stealth LaserL3 is a class 3M laser product. Never look at the Transponder closely while powered on!*

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Warranty is subject to change without direct notice, please contact App-Tronics directly to learn of any updated warranty material pertaining to your Stealth Upgrade Kit.

Stealth Upgrade Kit serial # \_\_\_\_\_  
Purchased at \_\_\_\_\_ Phone # \_\_\_\_\_  
Dealer's address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Vehicle Identification Number \_\_\_\_\_  
Customer Invoice number from Installer \_\_\_\_\_ Date \_\_\_\_\_  
Vehicle make \_\_\_\_\_ Model \_\_\_\_\_ year \_\_\_\_\_  
Customer name \_\_\_\_\_ Phone # \_\_\_\_\_  
Customer address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Email address \_\_\_\_\_  
Facility Rep. Signature of professional install \_\_\_\_\_  
Date \_\_\_\_\_  
Vehicle owner signature \_\_\_\_\_  
Date \_\_\_\_\_

**THIS WARRANTY CARD MUST BE FILLED OUT AND EMAILED OR MAILED TO App-Tronics TO RECEIVE EXTENDED WARRANTY.**

EMAIL TO: [INFO@APP-TRONICS.COM](mailto:INFO@APP-TRONICS.COM) OR CALL 1-888-587-4111 TO SEND IN OTHER WAYS.

## App-Tronics Upgrade Kit Warranty

**THIS WARRANTY CARD MUST BE FILLED OUT AND EMAILED OR MAILED TO App-Tronics TO RECEIVE EXTENDED WARRANTY.**

EMAIL TO: [INFO@APP-TRONICS.COM](mailto:INFO@APP-TRONICS.COM) OR MAIL TO: 1605 COMMODORE COVE, PAINESVILLE OHIO 44077. DEALERS CAN CALL THIS INFO IN AT 1-888-587-4111

Customers who buy and have the Upgrade Kit installed by one of our Authorized Dealers will receive an individual components warranty to include the following component and years. This warranty is subject to change without direct notification to the buyer. The Radar Detector receives a 3 year warranty. The CPU/Wing Box receives a 3 year warranty and laser diffusers receive 28 months. If purchased and installed by any other entity other than an Authorized Dealer the Standard one year warranty below takes place.

For period of one year from the date of first consumer purchase, App-Tronics, LLC will, without charge, repair or replace, at its option, defective products upon delivery to an authorized Service Agent, accompanied by proof of the date of first consumer purchase from an authorized dealer, such as a duplicated copy of a sales receipt. The customer has to pay shipping charges to deliver the product for service. The return charge will be at our expense, if the product is proven to be under warranty.

This limited warranty does not apply:

1. To any product damaged by accident;
2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs;
3. If the serial number has been altered, defaced or removed.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty.

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