

# Click Your Device For Installation Instructions



**MTG-uL**



**MTG-L**



**MTG**



**Barcode  
Scanner**



**Garmin**

# StreetEagle Vehicle Unit Installation – MTG-uL

This installation guide will provide the guidelines for installing the StreetEagle Vehicle Tracking Unit (VTU). Insight USA will not warranty the reliability of the VTU, and will not provide compensation to the installer for service calls to the customer if the guidelines are not followed exactly. If you require any further assistance during the installation process please call Insight USA at (301)-866-1990 x208.

## **Insight USA Provided Equipment**

- StreetEagle VTU
- Wiring harness
- Dual-mode GPS / GPRS
- Mounting screws
- Tamper Evident Sealant
- Installation instructions
- ATM and Mini ATM Pigtail Fuses
- Insulated Butt Connectors
- Ring Terminal

## **Other Equipment that may be needed**

- Multi-meter
- Crimpers and the appropriate connectors
- Fuse taps
- Electric Drill (cordless) with ¼” socket, 5/16” socket, Phillips and flat screwdriver bit attachments, and 7/8” hole saw (for through hole antennas)
- Cable ties or self-adhesive tie mounts
- Alcohol wipes (for window mounts antennas)

## **Installation Procedures**

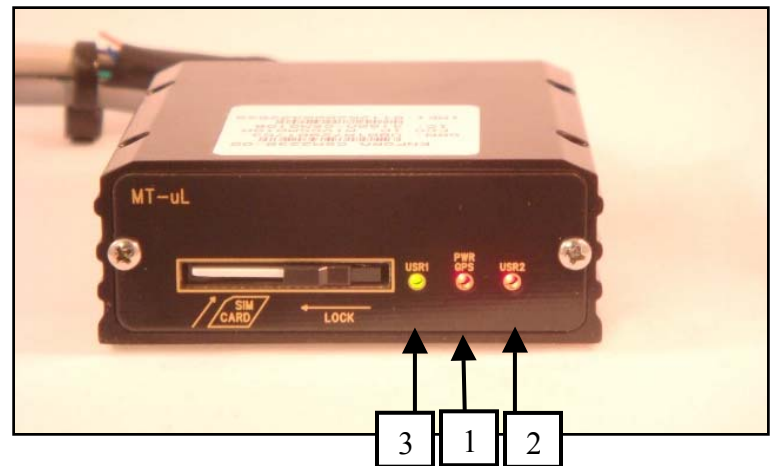
1. Write down your vehicles name or number.
2. Write down the serial number of the Tracking Unit that went in the above vehicle.
3. **Find a suitable location and mount the VTU**-- The vehicle unit must be mounted in the vehicle so that it is isolated from the elements. The trunk or cab of the vehicle is usually the most convenient. The unit must be mounted horizontally on the floor of the vehicle with the mounting screws. If this is impossible, a vertical mount may be used provided it is secured to a metal surface with at least 3 screws.  
Ideal mounting locations include, but are not limited to: on the floor behind/under the passenger seat, under the dash, bolted to the floor board, in the trunk mounted forward near the back of the passenger seats, etc.

4. **Connect the Power and Discrete Cable**--Use the wiring harness provided with your installation kit. **DO NOT PLUG THE POWER CABLE INTO THE VTU AT THIS TIME!!** Connect the wires according to the following table:

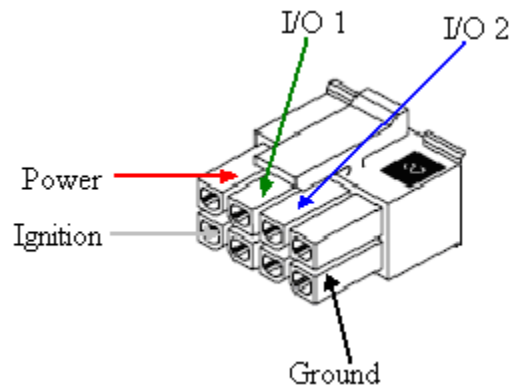
Black	Ground
White	Ignition → 12v is supplied only when ignition is on
Red	Battery → 12v is supplied constantly, regardless of ignition state
I/O 1 Green	Ground when signal Active*
I/O 2 Blue	Ground when signal Active*

\*Relay may be required when trying to implement an active low signal.  
See: "Diagram for wiring a PTO Circuit"

1. PWR/GPS- Always on. Resets with ignition.
2. USR2- turns on once GPS signal is acquired.
3. USR1- turns solid once cell signal is acquired.



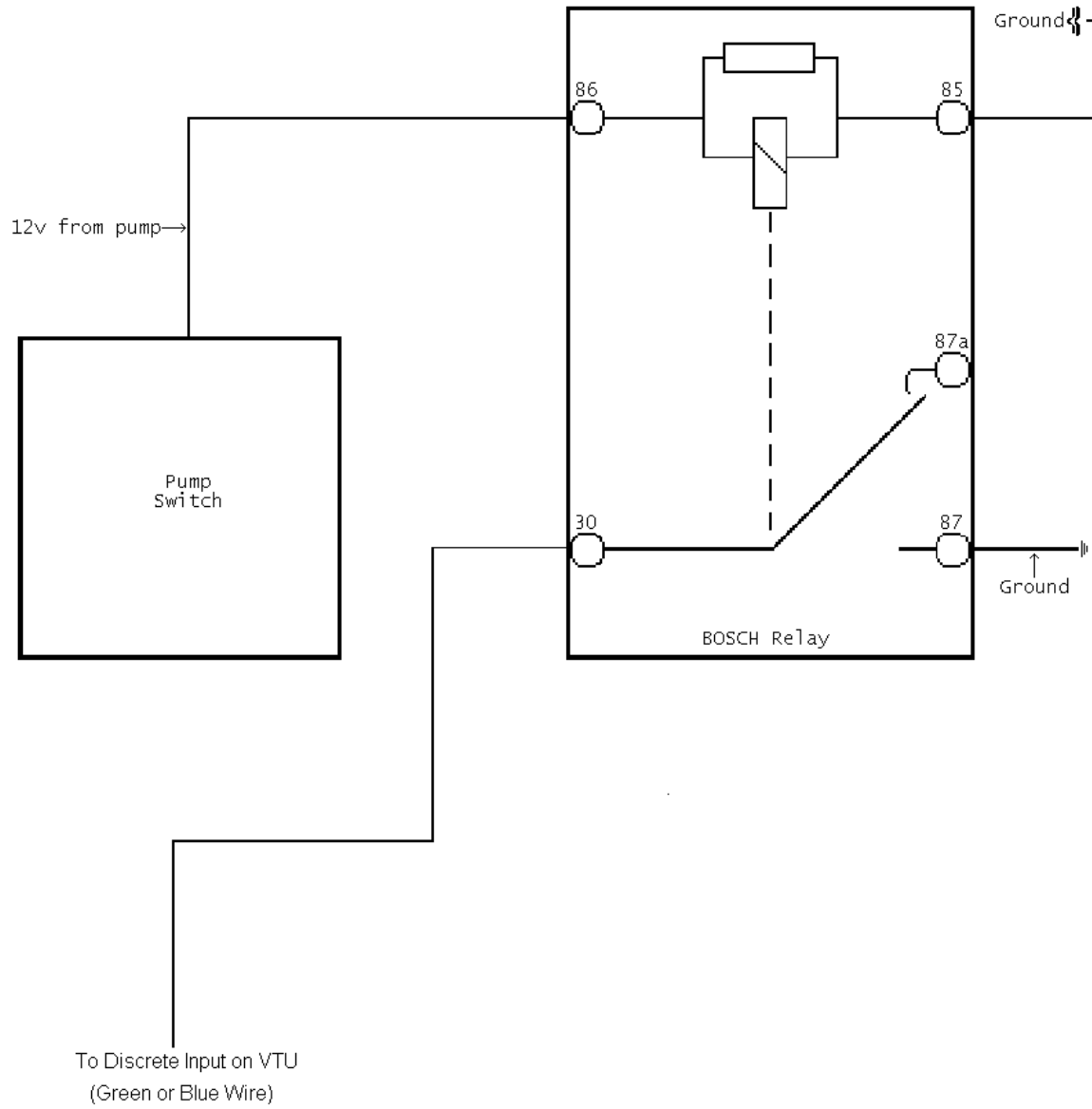
5. **Verify the Power and Discrete Connections**-- Once all of the connections have been made, check power at the plug with a voltmeter. Make certain that the ignition signal is ONLY on when the vehicle is on, and that battery power is ALWAYS on regardless of the state of ignition.



6. **Mount the Dual-Mode Antenna**-- The GPS antenna must be mounted on the windshield of the vehicle so that it has an unobstructed view of the sky. Mount the antenna with the word "UP" facing toward the sky. Mounting surfaces of the glass MUST be cleaned with alcohol wipes prior to mounting the cellular antenna. Route the cable where it cannot be pinched, kinked or cut. The cellular antenna attaches to the VTU via the purple connector on the back of the VTU. The GPS antenna attaches to the VTU via the blue connector on the back of the VTU.  
*\*\*\*Without a good view of the sky the antenna may cause the unit to report sporadically\*\*\**  
**Suggested locations and orientation**: glass mounted antennas should be placed high on the glass avoiding the defrosting elements, and the whip shall not touch any surrounding metal.
7. **Connect the power cable to the VTU**-- with the ignition off, and antennas connected, attach the power cable to the VTU. The retaining clip will snap into place when the connector is properly seated.
8. **Turn on the ignition and call Insight USA**-- call Insight USA at 301-866-1990 ext.208 to verify correct installation and functionality prior to proceeding to the next vehicle.  
Note: When the VTU is installed, it can take up to 20 minutes for the GPS to acquire its position after initial power-up. Subsequent position acquisition will be less than 30 seconds of the vehicle start-up.
9. **Update the vehicle name** in the Street Eagle Tracker control menu
10. **Apply tamper evident sealant**-- tamper evident sealant should be applied so that it attached to the cable and to the box. It should be used on the top of the power cable, and also on the GPS antenna cable and the GPRS antenna cable.

# Diagram for wiring a PTO Circuit

BOSCH 0-332-209-138 (Standard automotive horn relay)



# StreetEagle Vehicle Unit Installation – MT-GL

This installation guide will provide the guidelines for installing the StreetEagle Vehicle Tracking Unit (VTU). Insight USA will not warranty the reliability of the VTU, and will not provide compensation to the installer for service calls to the customer if the guidelines are not followed exactly. If you require any further assistance during the installation process please call Insight USA at (301)-866-1990 x208.

## **Insight USA Provided Equipment**

- StreetEagle VTU
- Wiring harness
- Dual-mode GPS / GPRS
- Mounting screws
- Tamper Evident Sealant
- Installation instructions
- ATM and Mini ATM Pigtail Fuses
- Insulated Butt Connectors
- Ring Terminal

## **Other Equipment that may be needed**

- Multi-meter
- Crimpers and the appropriate connectors
- Fuse taps
- Electric Drill (cordless) with ¼” socket, 5/16” socket, Phillips and flat screwdriver bit attachments, and 7/8” hole saw (for through hole antennas)
- Cable ties or self-adhesive tie mounts
- Alcohol wipes (for window mounts antennas)

## **Installation Procedures**

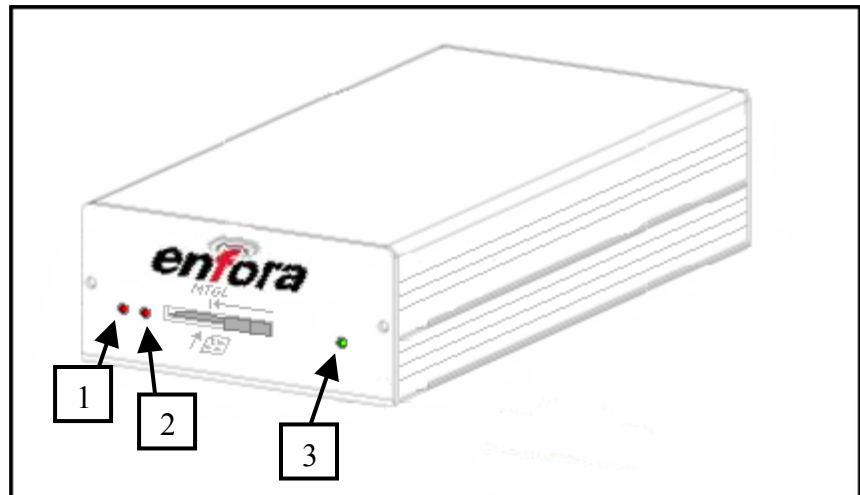
1. Write down your vehicles name or number.
2. Write down the serial number of the Tracking Unit that went in the above vehicle.
3. **Find a suitable location and mount the VTU**-- The vehicle unit must be mounted in the vehicle so that it is isolated from the elements. The trunk or cab of the vehicle is usually the most convenient. The unit must be mounted horizontally on the floor of the vehicle with the mounting screws. If this is impossible, a vertical mount may be used provided it is secured to a metal surface with at least 3 screws.  
Ideal mounting locations include, but are not limited to: on the floor behind/under the passenger seat, under the dash, bolted to the floor board, in the trunk mounted forward near the back of the passenger seats, etc.

4. **Connect the Power and Discrete Cable**--Use the wiring harness provided with your installation kit. **DO NOT PLUG THE POWER CABLE INTO THE VTU AT THIS TIME!!** Connect the wires according to the following table:

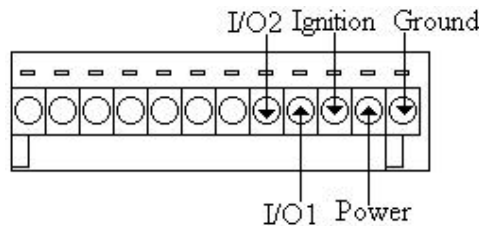
Black	Ground
White	Ignition → 12v is supplied only when ignition is on
Red	Battery → 12v is supplied constantly, regardless of ignition state
I/O 1	Ground when signal Active*
I/O 2	Ground when signal Active*

\*Relay may be required when trying to implement an active low signal.  
See: "Diagram for wiring a PTO Circuit"

4. PWR/GPS- always on (resets with ignition).
5. USR2- turns on once GPS signal is acquired.
6. USR1- turns solid once cell signal is acquired.



5. **Verify the Power and Discrete Connections**-- Once all of the connections have been made, check power at the plug with a voltmeter. Make certain that the ignition signal is ONLY on when the vehicle is on, and that battery power is ALWAYS on regardless of the state of ignition.



- 6. Mount the Dual-Mode Antenna**-- The GPS antenna must be mounted on the windshield of the vehicle so that it has an unobstructed view of the sky. Mount the antenna with the word "UP" facing toward the sky. Mounting surfaces of the glass MUST be cleaned with alcohol wipes prior to mounting the cellular antenna. Route the cable where it cannot be pinched, kinked or cut. The cellular antenna attaches to the VTU via the Silver TNC connector on the back of the VTU. The GPS antenna attaches to the VTU via the Gold SMA connector on the back of the VTU.

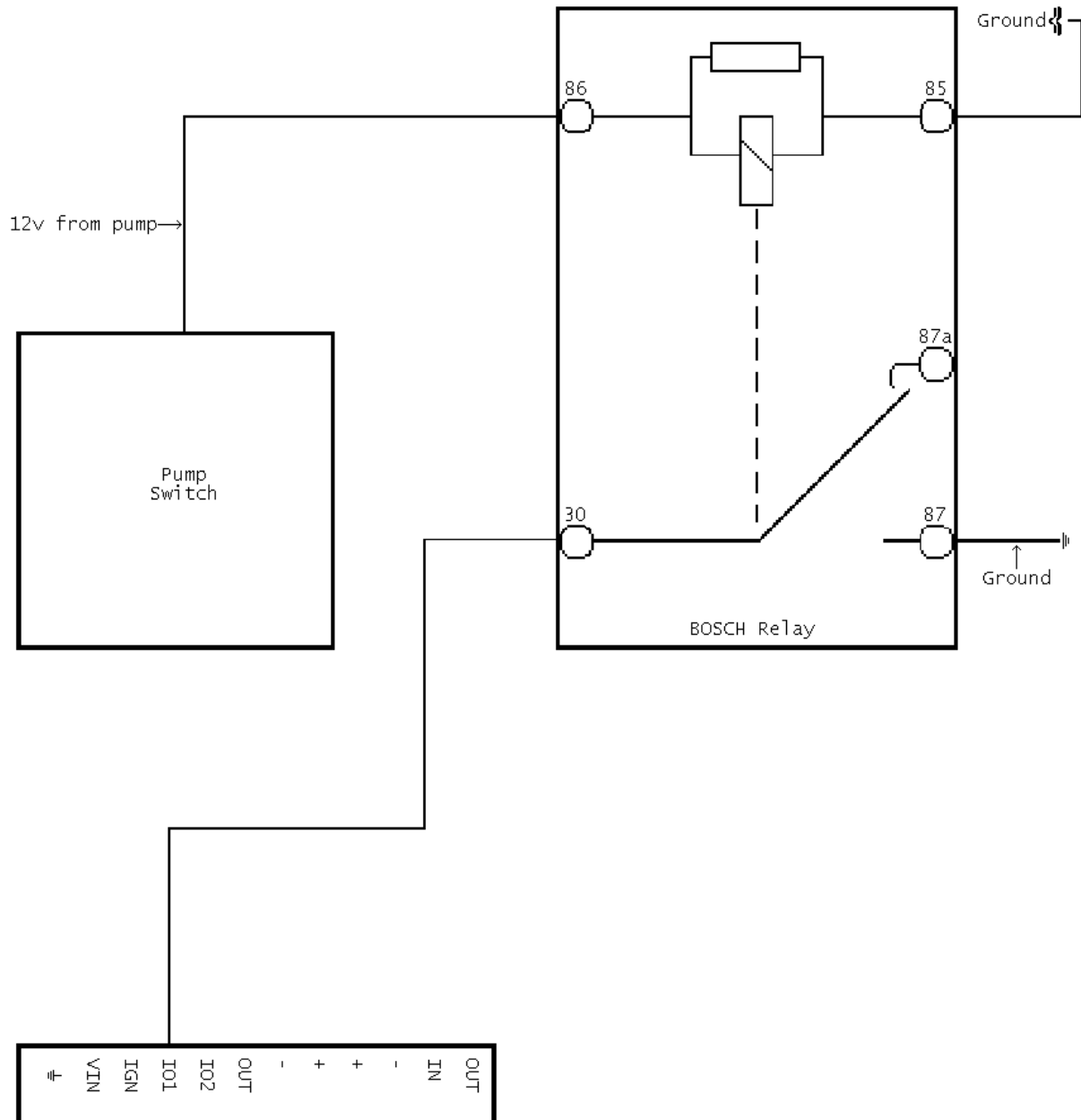
*\*\*\*Without a good view of the sky the antenna may cause the unit to report sporadically\*\*\**

**Suggested locations and orientation**: glass mounted antennas should be placed high on the glass avoiding the defrosting elements, and the whip shall not touch any surrounding metal.

- 7. Connect the power cable to the VTU**-- with the ignition off, and antennas connected, attach the power cable to the VTU. The retaining clip will snap into place when the connector is properly seated.
- 8. Turn on the ignition and call Insight USA**-- call Insight USA at 301-866-1990 ext.208 to verify correct installation and functionality prior to proceeding to the next vehicle.  
Note: When the VTU is installed, it can take up to 20 minutes for the GPS to acquire its position after initial power-up. Subsequent position acquisition will be less than 30 seconds of the vehicle start-up.
- 9. Update the vehicle name** in the Street Eagle Tracker control menu
- 10. Apply tamper evident sealant**-- tamper evident sealant should be applied so that it attached to the cable and to the box. It should be used on the top of the power cable, and also on the GPS antenna cable and the GPRS antenna cable.

# Diagram for wiring a PTO Circuit

BOSCH 0-332-209-138 (Standard automotive horn relay)



## StreetEagle Vehicle Tracking Unit Installation – MT-G

*This installation guide will provide the guidelines for installing the StreetEagle Vehicle Tracking Unit (VTU). Insight USA will not warranty the reliability of the VTU, and will not provide compensation to the installer for service calls to the customer if these guidelines are not followed exactly. If you require any further assistance during the installation process please call Insight USA at (301)866-1990 x208.*

### **Insight USA Provided Equipment**

- StreetEagle VTU
- Wiring harness
- Dual-mode GPS / GPRS antenna
- Mounting screws
- Tamper Evident Sealant
- Installation instructions
- ATM and Mini ATM Pigtail Fuses
- Insulated Butt Connectors
- Ring Terminal

### **Other Equipment that may be needed**

- Multi-meter
- Crimpers and the appropriate connectors
- Fuse taps
- Electric Drill (cordless) with ¼” socket, 5/16” socket, Phillips and flat screwdriver bit attachments, and 7/8” hole saw (for dual mode antennas)
- Cable ties or self-adhesive tie mounts
- Alcohol wipes (for window mount antennas)

### **Installation Procedures**

1. Write down your vehicles name or number.
2. Write down the serial number of the Tracking Unit that went in the above vehicle.
3. Find a suitable location and mount the VTU -- The vehicle unit must be mounted in the vehicle so that it is isolated from the elements. The trunk or cab of the vehicle is usually the most convenient. The unit must be mounted horizontally on the floor of the vehicle with mounting screws. If this is impossible, a vertical mount may be used provided it is secured to a metal surface with at least 3 screws.  
Ideal mounting locations include, but are not limited to: on the floor behind/under the passenger seat, under the dash bolted to the floor board, in the trunk mounted forward near the back of the passenger seats, etc.
4. Connect the Power and Discrete Cable -- Use the wiring harness provided with your installation kit. **DO NOT PLUG THE POWER CABLE INTO THE VTU AT THIS TIME!!** Connect the wires according to the following table:

Black	Ground
White	Ignition → 12v is supplied only when ignition is on
Red	Battery → 12v is supplied constantly, regardless of ignition state

5. Verify the Power and Discrete Connections -- Once all of the connections have been made, check power at the plug with a voltmeter. Make certain that the ignition signal is ONLY on when the vehicle is on, and that battery power is ALWAYS on regardless of the state of the ignition.
6. Mount the GPS (or Dual-Mode)Antenna -- The GPS antenna must be mounted on the windshield of the vehicle so that it has an unobstructed view of the sky. Mounting surfaces of the glass MUST be cleaned with alcohol wipes prior to mounting the cellular antenna. Route the cable where it cannot be pinched, kinked or cut. The cellular antenna attaches to the VTU via the TNC connector on the back of the VTU.

**Suggested locations and orientation:** glass mounted antennas should be placed high on the glass avoiding the defrosting elements, and the whip shall not touch any surrounding metal.

7. Connect the power cable to the VTU – with the ignition off, and antennas connected, attach the power cable to the VTU. The retaining clip will snap into place when the connector is properly seated.
8. Turn on the ignition and call Insight USA – call Insight USA at 301-866-1990 ext.208 to verify correct installation and functionality prior to proceeding to the next vehicle.  
Note: When the VTU is installed, it can take up to 20 minutes for the GPS to acquire its position after initial power-up. Subsequent position acquisition will be less than 30 seconds of vehicle start-up.
9. Update the vehicle name in the Street Eagle Tracker control menu
10. Apply tamper evident sealant – tamper evident sealant should be applied so that it attaches to the cable and to the box. It should be used on the top of the power cable, and also on the GPS antenna cable and the GPRS antenna cable.

# Barcode Scanner Install Guide

This installation guide will provide the guidelines for installing a Barcode Scanner unit connection to the StreetEagle device. Insight USA will not warranty the reliability of the VTU, and will not provide compensation to the installer for service calls to the customer if the guidelines are not followed exactly. If you require any further assistance during the installation process please call Insight USA at (301) 866-1990 x208.

## Insight USA Provided Equipment

- StreetEagle device
- Wiring harness
- Scanner and Base
- Installation instructions
- Optional Equipment if ordered:
  - ATM and Mini ATM Pigtail Fuses
  - Insulated Butt Connectors
  - Ring Terminal

## Other Equipment that may be needed

- Multi-meter
- Crimpers and the appropriate connectors
- Fuse taps
- Electric Drill (*cordless*) with bit attachments
- Cable ties or self-adhesive tie mounts

## Installation Procedures

1. **Find a suitable location to mount the Barcode scanner**-- The barcode scanner must be mounted where the driver can access the barcode scanner easily. Make sure the scanner is be mounted securely and will not fall.
2. **Connect the serial cable**-- Plug the serial cable from the StreetEagle vehicle-tracking unit into the data port on the barcode scanner cable.
3. **Connect the power cable**-- The barcode scanner must receive switch power in order for the barcode scanner to function properly. The red wire must be wire to switched 12-volt power source. The black wire must be attached to chassis ground. The barcode scanner will only transmit data when vehicle is turned on.
4. **Scanner Data Setup**--The scanner needs to be setup by scanning the “Barcode Scanner Setup for >>>(data)<<<” provided on the next page.

## **Barcode Scanner Setup for >>>(data)<<<**

To setup the barcode scanner, scan the charging bay's barcode and then scan the barcodes listed below. *(It is very important that the barcodes are scanned in numerical order starting with number 1.)*

1. Erase rules



2. Begin New Rule



3. Send ASCII key > (Scan 3 times)



4. Send All that Remain



5. Send ASCII key < (Scan 3 times)



6. Save Rule



# Garmin Installation Guide

This installation guide will provide the guidelines for installing a Garmin unit with connection to the StreetEagle device. Insight USA will not warranty the reliability of the VTU, and will not provide compensation to the installer for service calls to the customer if the guidelines are not followed exactly. If you require any further assistance during the installation process please call Insight USA at (301) 866-1990 x208.

## **Insight USA Provided Equipment**

- StreetEagle device
- Wiring harness
- Installation instructions
- Optional Equipment if ordered:
  - Cigarette lighter socket P/N: 12VDCSOCKET
  - ATM and Mini ATM Pigtail Fuses
  - Insulated Butt Connectors
  - Ring Terminal

## **Other Equipment that may be needed**

- Multi-meter
- Crimpers and the appropriate connectors
- Fuse taps
- Electric Drill (cordless) with bit attachments
- Cable ties or self-adhesive tie mounts

## **Installation Procedures**

1. **Upgrade Firmware**-- Visit [www.garmin.com](http://www.garmin.com), click Support> Software Updates> Unit Software, then follow the instructions to update the firmware on the Garmin. (if you purchased the Garmin directly from Insight USA this step has been completed for you) Occasionally updating the Garmin unit maybe needed to take advantage of new functionality.
2. **Find a suitable location to mount the Garmin**-- The Garmin unit must be mounted where driver will not be distracted. The unit must also be able to receive a valid GPS signal. Be sure the unit will be mounted securely and will not fall.  
*\*\*\*Check local and State Laws on mounting the Garmin unit to the windshield.*
3. **Connect the serial cable**-- Plug the serial cable from the StreetEagle device into the data port on the Garmin.
4. **Connect the power cable**-- The Garmin unit must receive constant power. In order for the Garmin to function properly, the Garmin must also be powered on at all times. If the vehicle does not supply constant power to the cigarette lighter, P/N: 12VDCSOCKET must be ordered and connected  
Wire Cigarette lighter- (if necessary) Connect the Positive (red) wire to a constant +12volts source. Connect the Negative (black) wire to a chassis ground. Run the socket to a suitable mounting location and connect the Garmin power cable to it.



Every time the Garmin is first turned on the No Communication symbol will appear until the unit receives a message or route.

## Garmin Troubleshooting

If the Garmin is not receiving Routes or Messages check the following:

Update software version on the Garmin (Please visit [www.garmin.com](http://www.garmin.com) for more details)

The Garmin must be plugged into constant power (cannot run off battery alone)

Communication cable must be plugged into data port, not charging port



Every time the Garmin is first turned on the No Communication symbol will appear until the unit receives a message or route.

Check Table below for special Cable needs

Garmin Unit Number	Standard Cable (P/N 010-10813-00)	Specialty cable (P/N 010-10865-00)
Nuvi 300	<b>X</b>	
Nuvi 310	<b>X</b>	
Nuvi 350	<b>X</b>	
Nuvi 360	<b>X</b>	
Nuvi 370	<b>X</b>	
Nuvi 600		<b>X</b>
Nuvi 610		<b>X</b>
Nuvi 650		<b>X</b>
Nuvi 660		<b>X</b>
Nuvi 680		<b>X</b>
Nuvi 750		<b>X</b>
Nuvi 760		<b>X</b>
Nuvi 880		<b>X</b>
Nuvi 5000		<b>X</b>
Street Pilot 2720	<b>X</b>	
Street Pilot 2820	<b>X</b>	
Street Pilot 7200	<b>X</b>	
Street Pilot 7500	<b>X</b>	
Street Pilot c340	<b>X</b>	
Street Pilot c510		<b>X</b>
Street Pilot c530		<b>X</b>
Street Pilot c550		<b>X</b>
Street Pilot c580		<b>X</b>
Zumo 400	<b>X</b>	
Zumo 450	<b>X</b>	
Zumo 550	<b>X</b>	