

HRN-CW03S3 Installation Guide



The HRN-CW03S3 is used for installation in vehicles or assets where no diagnostic port is available due to age of vehicle or type. It has three wires that are connected to power, ground, and ignition and can be used with either a GO6 or GO7. GO6 does not have an "ignition pin" so it will behave the same with the 3-wire as it does with the 2-wire. This harness allows for a basic connection to any vehicle, giving ignition (for GO7) and GPS tracking. These harnesses are typically used in vehicles pre 1996 without an OBDII connector (Golf Cart, Bull Dozer, Gator, etc.). This type of installation will not gather engine data.

Installing the HRN-CW03S3 with a GO7

There are three points of connection when using the HRN-CW03S3:

- **BLACK** - this wire is the GROUND wire, it must be connected to a known good chassis ground
- **YELLOW** - this is the ignition sense wire, it must be connected to a true ignition source (Live with key in both the ON and RUN positions, dead when key is off)
- **RED** - this wire is the power (12 or 24v) constant wire. It must be connected to a true battery source (Live at all times)

The red and yellow wires need to be connected to a fused source, or fuses must be installed.

Installing the HRN-CW03S3 with a GO6

The ignition wire should be taped off and not connected. De-pin or cut off the YELLOW wire of the HRN-CW03S3 if never planning on reinstalling with a GO7.

Detecting Ignition Using the HRN-CW03S3

If an asset is installed with a GO7 and using the HRN-CW03S3 with all 3 wires connected properly, the GO7 will detect the ignition wire and use it for ignition sensing purposes.

If an asset is installed with a GO6 and a HRN-CW03S3, the GO6 will default to detecting ignition using the "Active Tracking" algorithm. "Active Tracking" uses accelerometer movement and GPS position change to track the vehicle movement and will mark the ignition as on. It is not as accurate at determining ignition as actually connecting to the ignition source and cannot be used for idling or similar purposes.

"2-wire" is an alternate method used by the GO6. It attempts to determine ignition based on voltage patterns along with GPS and accelerometer. This should only be used with GO6 devices where Active Tracking does not provide the accuracy necessary. 2-wire ignition sensing requires a parameter to be set - please contact Support if this method is required.

WARNINGS AND CAUTIONS

WARNING: Mapping, navigation and tracking features available through Geotab software is dependent on third party mapping data and services and the availability and accuracy of the Global Positioning System ("GPS") operated by the United States government. Both third party data and services as well as GPS is subject to changes which may affect the accuracy or performance of mapping, navigation and tracking information or graphics presented through the use of Geotab software. Geotab products, software and services are not intended for use for primary navigation, route planning or similar purposes, as information presented may be inaccurate, delayed or misinterpreted. Relying on Geotab software for such purposes may result in incorrect navigation leading to unsafe driving situations.

WARNING: Geotab's products and related software and services are not designed or intended for use in emergency or failsafe situations including, without limitation, situations: (A) where failure of same may result in a risk of property damage, death or personal injury; (B) where Geotab's products, software or services are used to alert others upon the occurrence of certain vehicular events recorded by Geotab in-vehicle devices; or (C) requiring fail-safe controls or fail-proof delivery of information, including without limitation any operations involving radioactive or hazardous materials, life support systems or munitions or weapons. Communication features in Geotab in-vehicle devices may be interrupted or inoperable if a vehicle travels outside of a network coverage area or where there is a fault or service interruption with the carrier. Communication of data through Geotab in-vehicle devices also requires transmission of data through the internet. Failure in internet access will result in the interruption of communications.

WARNING: Do not attempt to install, reconfigure or remove any product from any vehicle while the vehicle is in motion or otherwise in operation. All installation, configuration or removal must be done only in stationary vehicles which are securely parked. Attempting to service units while being operated could result in malfunctions or accidents, leading to death or serious personal injury.

WARNING: If at any point after a Geotab in-vehicle device is installed, a warning light illuminates on the vehicle dash or the vehicle stalls or has a marked drop in performance, shut off the engine, remove the device, and contact Geotab support.

WARNING: Do not attempt to remove Geotab in-vehicle devices from the vehicle in which they are originally installed for installation in another vehicle. Not all vehicles are compatible with Geotab in-vehicle devices, and doing so may result in unexpected interactions with your vehicle, including sudden loss of power or shutdown of the vehicle's engine while in operation or cause your vehicle to operate poorly or erratically.

WARNING: All in-vehicle devices and related cabling must be securely fastened and kept clear of all vehicle controls, including gas, brake and clutch pedals. You must inspect devices and cabling on a regular basis to ensure all devices and cabling continue to be securely attached. Loose cabling or devices may impede the use of vehicle controls, resulting in unanticipated acceleration, braking or other loss of vehicle control, which could lead to death or serious personal injury. Improperly fastened in-vehicle devices may detach and impact operators upon sudden acceleration or deceleration, which may cause injury.

WARNING: Geotab requires the use of a cable tie when securing the GO device or any extension harness to the OBD connector, securing both sides of the harness. If you do not use a cable tie, vibration in the vehicle can lead to a loose connection which could indirectly cause the vehicle's engine computer to fail. This could result in the vehicle stalling and can even cause personal injury under certain circumstances if it occurs while the vehicle is being driven.

CAUTION: Geotab products do not contain any user-serviceable parts. Configuration, servicing, and repairs must only be made by an authorized Geotab reseller or installer. Unauthorized servicing of Geotab products will void your product warranty. Improper installation may also lead to short circuits and the risk of fire, leading to personal injury or significant damage to your vehicle. Installation or servicing may also require modifications to your vehicle. Failure to comply with specified procedures or without adequate knowledge of the vehicle may result in damage to your vehicle, which may cause malfunctions of vehicle controls or vehicular environmental systems and result in personal injury.

CAUTION: Geotab in-vehicle devices must be kept clear of debris, water and other environmental contaminants. Failure to do so may result in units malfunctioning or short-circuiting, causing a fire hazard.

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