



ROOSTER[®]

TRACKING SYSTEM

INSTALLATION & SET-UP GUIDE

Welcome to Rooster®!

Thank you for purchasing the **Rooster® Tracking System**.

This advanced, wireless asset tracking system allows registered users to answer 2 key questions about their assets – any time, any place, with no phone calls.

- Where is it located?
- When is it being used?

With **Rooster®** you can track the location and usage of virtually any make or model of vehicle, powered and unpowered equipment, small tools, and inventory.

The **Rooster® Tracking System** eliminates time wasted searching for assets, and revenue lost to undocumented tool and equipment usage. With **Rooster®**, you will:

- Find Unbilled Time
- Reduce Equipment Hoarding
- Identify Your Utilized Equipment
- Cut Waste & Reduce Rental Costs
- And More!

Ruggedized to take the punishment of any industry or environment, the **Rooster® Tracking System** also enables Users to capture and report a range of data:

- See Where Your Assets Have Been
- Daily Movement Map
- Configurable Check-In Frequency
- Create Activity Reports by Location
- Export Data to Accounting and ERP Systems
- Unlimited Locations

This manual will help owners and operators of the **Rooster® Tracking System** install, set up, and manage their systems.

Product Specifications

Operating Environment: The system will function in temperatures ranging from -22°F to 140°F (-30°C to 60°C).

System Minimums: The Rooster® Tracking System requires a minimum of 1 Activity Tracker and 1 Rooster® Hub to operate. Users must download the Rooster® App to either an Android or IOS mobile device running at least operating system/firmware version (Android), or operating system/firmware version (IOS). Users must also set up and maintain an account with Rooster®, including a subscription payment method.

Rooster® Hub Dimensions: 4" x 7" x 2" (102mm x 178mm x 51mm)

Activity Tracker Dimensions: 2" diameter x 3/4" (51mm x 19mm)

Rooster® Hub Ingress Protection Rating: IP66

Activity Tracker Ingress Protection Rating: IP67

Chemical Exposure Resistance: System components are resistant to short term exposure to gasoline, diesel fuel, motor oil, and other common construction chemicals.

Shock Resistance: The system is resistant to vibration or sudden shock.

UV Resistance: System components are resistant to UV exposure.

Power Supply: The Rooster® Hub may be wired into a 12VDC or 24VDC power supply. The Rooster® Hub may also be powered by an auxiliary solar panel, or an AC Adapter (110 volts).

Upload Frequency: 8 minutes

Orientation Sensitivity: TBD

Movement Sensitivity: TBD

Range: TBD

Hub Backup Battery: 6 Hours

Rooster® Hub Product Life: The Rooster® Hub should function for a minimum of 5 years in normal conditions.

Activity Tracker Product Life: The Activity Tracker will function for a minimum of 24 months of field use when the data transmit interval is set to once every 12 hours, and the Activity Tracker is in Frequency mode.

Vehicle Battery Rundown Resistance: The Rooster® Hub features low battery/low voltage detection to prevent battery run down of the host vehicle/powered equipment.

Cellular Network Capability: The Rooster® Hub communicates with a cloud database using the AT&T cellular network in North America, and the Vodafone cellular network in Europe. Users Do Not need to have an account with AT&T or Vodafone to use the Rooster® service, and will not receive a cellular usage bill. Users will pay a subscription fee that covers cellular data usage associated with their Rooster® Tracking System. Other charges may apply.

Secure Communication: Rooster® Hub and Activity Trackers communicate only with devices that are part of the Rooster® system.

FCC/CE certifications pending.

Other certifications pending.

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System Overview

The Rooster® Tracking System is a subscription-based service that allows Users to easily track the location, usage, and other metrics of all types of construction equipment and machines, vehicles, tools, materials, and inventory

Items tracked by the Rooster® Tracking System are collectively referred to as “Assets.”

Assets may be tracked virtually anywhere they can pair with a Rooster® Hub - at multiple job sights, shops and yards, and other facilities - all through the Rooster® App installed on a mobile device.

Multiple Rooster® Tracking System users may operate independently in the same location – even on the same job site.

IMPORTANT: You must download the Rooster® App and set up a Rooster® account prior to activating or using the Rooster® Tracking System. Once installed and your account has been created, you will receive a confirmation email from Rooster®.

Get the Rooster® App

The Rooster® App is available for free download from The Apple App Store, or from Google Play Store.

Download the Rooster® App and follow the on-screen directions to set-up your Rooster® account.

Set Up Your Rooster® Account

Setting up your Rooster® account is easy. To create a new company account, you will need a credit card to establish your subscription-based account. If your company already has a Rooster® account, you will not need a credit card.

Each Subscriber must open the confirmation email from Rooster®, and follow the simple directions it contains to activate their account and begin using the Rooster® App to set-up, monitor and maintain their Rooster® Tracking System.

How it Works

The three primary components of the Rooster® Tracking System include cellular and GPS enabled **Rooster® Hubs**, wireless **Activity Trackers**, and the **Rooster® App**.



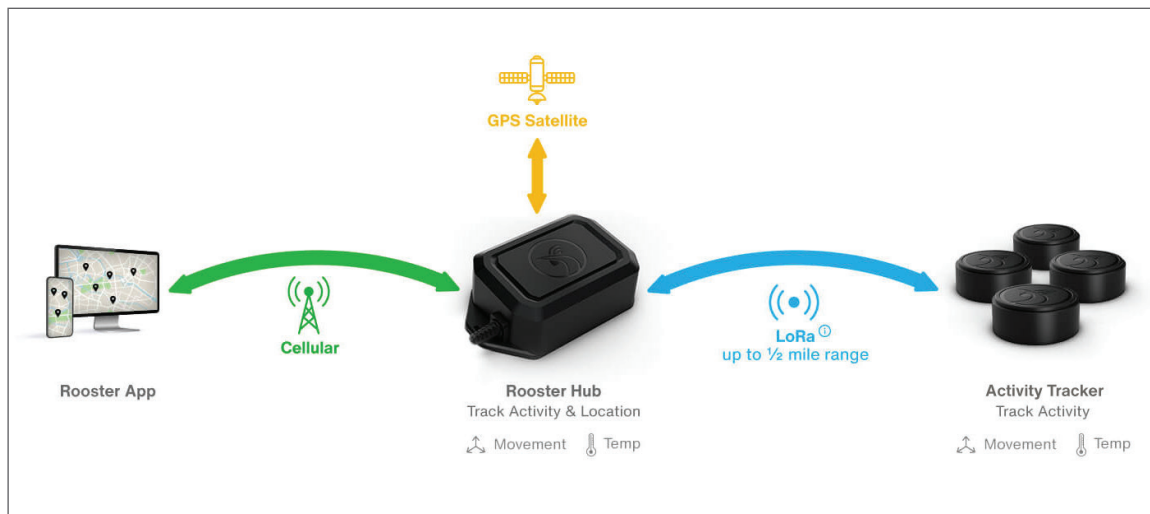
Hub



Tracker



Rooster® App



Rooster® Hubs establish and maintain a wireless connection with cellular communication networks operated by major telecommunications carriers.

Rooster® Hubs collect asset location and usage information from multiple asset Activity Trackers at regular intervals, and transmit this data to the Subscriber's account using the cellular network.

Rooster® Hubs also collect, record and transmit their own GPS position coordinates.

Hubs may be mounted on powered mobile construction equipment and vehicles, called Hosts, or static structures, which can extend the range of the subscriber's Rooster® Tracking System.



Activity Trackers are small, inconspicuous, water and shock-resistant wireless pucks that can be mounted to virtually any powered or non-powered asset – from a shovel or a drill, to a generator, to a track hoe, to a pallet of construction material – and more.

Within each Rooster® Tracking System user's account, each Activity Tracker is linked to the specific Asset it is intended to track. Activity Trackers collect activity, temperature, and internal battery level voltage readings, and transmit this information to the nearest Rooster® Hub unit using LoRa long range wireless technology, which is more robust and dependable than a standard wifi network.

Users may select various modes in which the Activity Trackers operate, and define the time interval at which their Activity Trackers and Rooster® Hubs transmit Asset data to Rooster®'s proprietary servers.



Each Rooster® Hub will periodically connect to a cloud database using a cellular modem, sending data to Rooster®'s proprietary and secure servers. From these servers, Rooster® Users interact with their Rooster® Hubs and Activity Trackers using the Rooster® App to track and monitor all of their Assets equipped with a Rooster® Activity Tracker.

Rooster® Hubs collect and record a variety of useful information, including: asset activity level/usage of the vehicle they are mounted to, time, GPS location, host vehicle battery voltage, Hub unit internal battery voltage, cellular signal strength, Hub internal temperature, and acquired Activity Tracker data.

Activity Trackers transmit a LoRa signal. Any Rooster® Hub within range will transmit back to the Activity Tracker, letting it know that it is available. The Activity Tracker then determines which hub is closest and strongest. The Activity Tracker and selected Rooster® Hub then establish a channel, and communication between only the Activity Tracker and selected Rooster® Hub takes place over this channel.

Activity Trackers must be positioned within approximately a ½ mile/800 yard radius of the closest Rooster® Hub to pair and transmit information about the Asset to which they are attached.

Each Rooster® Activity Tracker comes with an internal battery that never needs replacing. Activity Tracker batteries have an estimated minimum service life of about 24 months, depending upon conditions and use.

Rooster® Hubs have an estimated minimum service life of about 5 years under normal conditions.

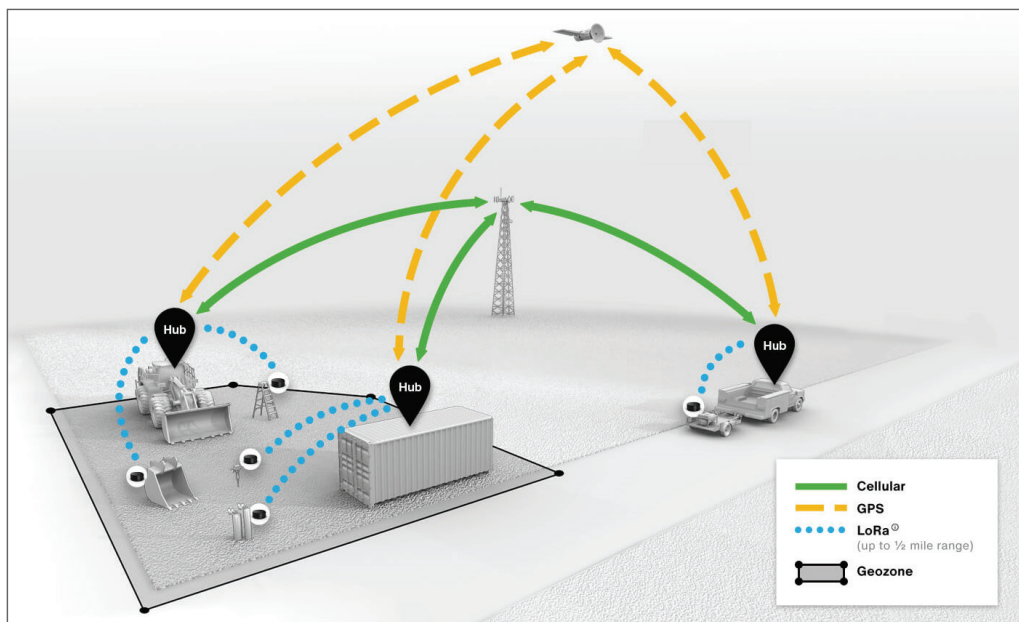
Rooster® recommends that Users install their Rooster® Hubs on mobile machines like bulldozers, excavators, and cranes. Near-constant, unobstructed exposure to the cellular wireless network, and the mobility offered by most construction equipment, extend the range and enhance the data collection and reporting capabilities of the Rooster® Tracking System.

Rooster® Hubs require a dependable external power source to operate, and may be hard wired in to the wiring harness of any equipment operating on a 12VDC or 24VDC system.



Cables with OBD-2, 6-pin and 9-pin OBD connectors are also available at Rooster.com.

Installation on mobile equipment must be performed by a qualified technician to ensure safety and proper functioning of the Hub and the Host machine.



Rooster® Hubs may also be installed on stationary locations, such as on office buildings, shop buildings, shipping containers/Conex boxes, portable construction offices, and other structures. Hubs installed on stationary structures may be powered by an optional solar panel.

Stationary hubs may also be plugged in to a 110 volt electrical system using the Rooster® AC adapter. Rooster® AC adapters are available for purchase at Rooster.com.

Consult with an electrician or physical plant manager before attempting to install a Hub unit and optional solar panel or AC adapter.

Rooster® Tracking System Network Options

Rooster® offers two networking options for Users when tracking their assets with the system.

1. Rooster®'s standard "public" network
2. Private networking option available for an additional fee

Rooster® Public Network Option

Using Rooster®'s public network option, a single User's Activity Tracker data can be paired with and transmitted by *any* Rooster® Hub, whether it belongs to that particular User, or another registered Rooster® subscriber.

For example, say a User is one of many subcontractors working on a large job site. Many of the subcontractors on the job site happen to be Rooster® subscribers, and have equipped their equipment, tools, and construction offices with their own Rooster® Hubs and Activity Trackers.

Any Rooster® Activity Tracker on that job site may connect with any Rooster® Hub active on that job site to transmit data to the secure Rooster® Servers.

However, each Rooster® Subscriber on that site can only track and view his or her own Activity Tracker data – regardless of whose Rooster® Hub transmitted the data to the Rooster® Servers. No one else can see your Asset tracking data.

The Public Network Option greatly extends the possible range of Rooster® Tracking System, allowing Users potentially greater latitude in tracking their assets.

Using Rooster® Public Network Option, Activity Tracker-equipped machinery your company is transporting cross-country by trailer may detect and pair with another User's Rooster® Hub unit at a weigh station or transit center. The other User's Rooster® Hub may transmit your equipment's Activity Tracker information to the Rooster® Network from this remote location, allowing you to identify the approximate location of your equipment, and other relevant data.

Rooster® Private Network Option

Using Rooster® Private Network Option, users may configure their Activity Trackers to only pair and communicate with Rooster® Hubs you own. Users opting for the Private Network Option may incur additional charges for this enhanced service.

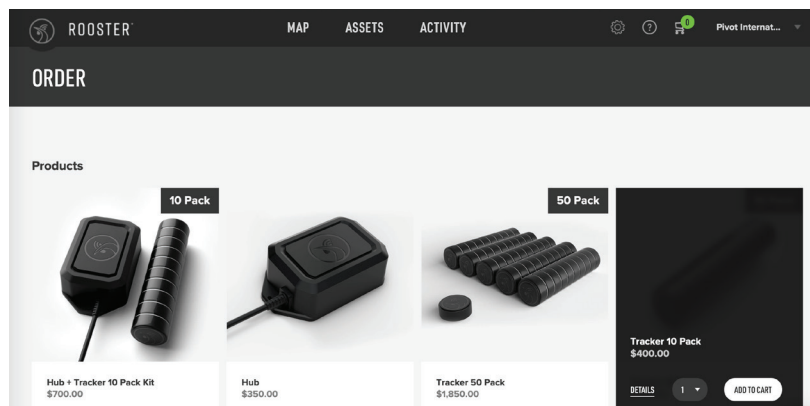
What's Included?

Registered Users of the Rooster® Tracking System must have at least 1 Rooster® Hub and 1 Activity Tracker associated with their Rooster® account to enjoy the benefits of the system.

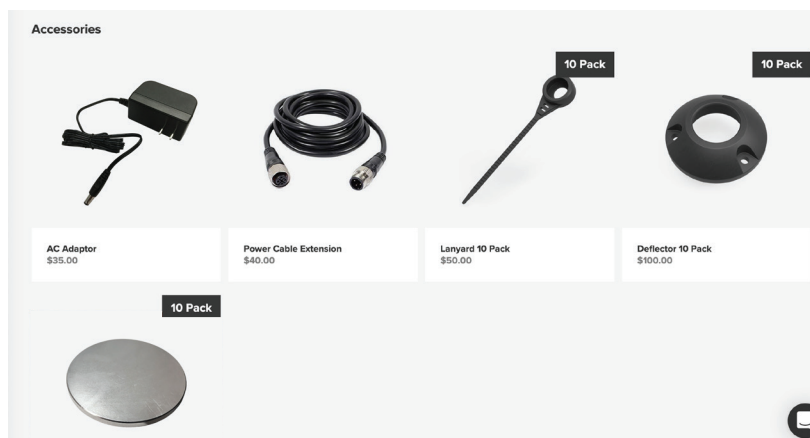
Rooster® Tracking System components are available in the following configurations:

- Rooster® Hub + Activity Tracker 10-pack kit
- Rooster® Hub – single unit
- Activity Tracker 50 pack
- Activity Tracker 10 pack

Go to Rooster.com to purchase additional kits or individual units.



Rooster® offers a range of useful Accessories that add greater flexibility in connecting, powering, and securing Rooster® Hubs and Activity Trackers. All accessories are available from the Rooster® store at Rooster.com.



Use the Rooster® App to activate your Rooster® Hubs and Activity Trackers with easy, step-by-step instructions.

Getting Started

IMPORTANT: *Rooster® Hubs must be energized, or turned on, to activate. Connect each Rooster® Hub to a suitable power supply in order to activate the Hub's wireless connection with the authorized cellular network, link with Rooster® Activity Trackers, and integrate with your User account.*

(Insert possible diagram of provisioning/set up:
Energize/power supply to activate, connect with cellular
network, transmit data to Rooster Server, connect with App,
NFC activation of Trackers?)

A suitable power supply may consist of a proper, hard wired connection to the Host machine's electrical system, connection via the OBD cable option, an auxiliary solar panel, or an optional AC adapter plugged in to a properly wired 110 volt outlet.
(Note: AC adapters are not IP rated.)

Rooster® Hubs include an internal back-up battery capable of powering the hub for at least 24 hours with limited functionality when the Host machine fails to supply power to the Hub unit. The Hub draws a small amount of voltage from the Host even when the Host is powered off.

Activity Trackers may be activated before or after being installed or applied to the specific asset you wish to track. Users may find it easier to activate Rooster® Hubs and set them up prior to installation.

Rooster® Hubs and Activity Trackers may be mounted on a variety of surfaces, including: metal, plastic, wood, and concrete.

Rooster® Hub Installation

HUB INSTALLATION – MOBILE CONSTRUCTION EQUIPMENT/MACHINE/VEHICLE

Rooster® Hubs can be easily installed by the User. The Hub exterior housing is compatible with mounting hardware such as zip ties, glue or epoxy, VHB tape, wood screws, machine screws, or bolts of the User's choosing.

Rooster® recommends using mounting bolts no larger than 1/4"-20.

Tools needed: Drill or drill driver, drill bits of the appropriate size for the fastener being used, electrical splices/connectors, electrical tape, cable clamps, zip ties, multimeter, etc.

- Always use tools that are in good condition and that have been properly maintained.
- Always wear proper personal protective equipment when using tools.
- Make sure the machine is not energized when installing a Rooster® Hub, and ensure any stored electrical energy on the machine is properly discharged before attempting installation.

1. Begin by selecting the location on the machine or vehicle where you wish to mount the Rooster® Hub. Select a mounting location that will provide the best GPS accuracy, yet still provide some protection for the device. We recommend pointing the Rooster® logo directly at the sky for best results.

The best location for mounting Rooster® Hubs is on the exterior of vehicles and structures, with unobstructed exposure to the open sky.

2. When possible, mount Rooster® Hubs on the roof of the machine, or on an upward facing exterior surface such as the hood, engine or wheel cover, bucket or lift arm, frame rail, etc.
3. Avoid mounting Rooster® Hubs in the cab, under fenders, or inside engine compartments or service panels. Like cell phones, Rooster® Hubs require an optimal, unobstructed cellular signal. Steel body panels, walls or doors, close proximity to engines and generators, or interior mounting may limit the effectiveness of the Rooster® Hubs internal cellular, GPS, and LoRa wireless antennas.

Mounting Rooster® Hubs in less than optimal locations may negatively impact the Rooster® Tracking Systems' ability to connect to the cellular network, GPS system, or pair with and receive communications from Activity Trackers.

4. DO NOT attach Rooster[®] Hubs on or near the following:
 - exhaust vents
 - warning labels
 - handrails/holds
 - areas exposed to sparks or high heat
 - **any other area that may jeopardize personal safety, safe operation of machine or tool, or cause harm to the device**
 - moving parts
 - guards
 - switches or controls
 - submerged areas
5. Once you have determined the Rooster[®] Hub's mounting location, place the Hub in the desired spot and mount it with the hardware, adhesive, or fasteners of your choice.
6. If using screws or bolts, first check to make sure you will not damage any components which are not visible beneath the area to be drilled.
7. Carefully mark and drill the holes.
8. Place the Rooster[®] Hub in position, and drive the screws or bolts to secure the Hub to the Host.

Next, identify the location for connecting the Rooster[®] Hub's wiring to the Host machine's wiring harness.

Wiring Options for connecting Rooster[®] Hubs include:

- Adapters to common 6, 9 or 14 pin OBD ports
- Flying Leads

WIRING - ADAPTERS

1. Connect the appropriate 6, 9, or 14-pin male adapter to the equipment's OBD port.
2. Connect any cable extensions (sold separately as an accessory at Rooster.com) to extend the cable from the Hub's location to the OBD port.
3. Connect the male end of the cable adapter to the female connector on the Hub.
4. The Hub will begin blinking as it initializes.
5. Follow the instructions on the Rooster® App for device activation & assignment.

WIRING - FLYING LEADS

1. Connect the **RED** wire to a constant 12V-24V power source.
 - a. If the RED wire is connected to an ignition source instead of a 12V-24V constant power source, the Rooster® Hub will not work as intended.
2. Connect the **BLACK** wire to a constant ground source.
 - a. Prepare the grounding surface to expose clean, bare metal prior to attaching the ground wire. Bare metal provides a better connection.
3. Optionally connect the **BLUE** wire to an ignition source.
 - a. If the **BLUE** wire is connected to the **RED** wire during installation, the Rooster® Hub will display 100% activity utilization. Only connect these wires together if this is the intended result. You DO NOT need to provide power to the **BLUE** wire for the Rooster® Hub to function properly.
4. The Rooster® Hub will begin blinking as it initializes. The Rooster® Hub's LED will stop blinking when it acquires a cellular signal.
5. Follow the instructions on the Rooster® App for device activation & assignment.

IGNITION MONITORING

1. When the **BLUE** wire is connected to an ignition source, it will override any motion being monitored by the Rooster® Hub and report the equipment as active while the wire is energized.
2. Some users prefer to connect the **BLUE** wire to an oil pressure switch or similar component to avoid false activity readings when a key is on but the equipment is not actually running.
3. You can also mount an inline toggle switch (not provided) on the **BLUE** wire instead of connecting to an ignition source to manually control the activity duration.

Ensure that you have enough cable to reach between the Rooster® Hub mounting location and the desired location for connecting to the wiring harness.



Allow some stress relief on the wires to prevent them from pulling pulled from the Rooster® Hub or the wiring harness due to any unexpected movement of, or pulling on, the cable.

Run the cable between the Rooster® Hub and the splicing location you've identified on the Host's wiring harness.

Avoid routing the cable through hinged doors which may crimp the cable, or through sharp holes or joints in the sheet metal, or bending or twisting the cable at sharp angles – all of which could damage the cable or cable insulation, resulting in damage to the Rooster® Hub or Host vehicle.

Connect the provided 10 ft. power cable to the Host's wiring harness. Wrap and secure all splices to ensure a good, water tight connection. If necessary, use the optional extension cable available from Rooster.com.

Secure the cable with zip ties, cable clamps or other suitable hardware. Securing the cable should keep it from being crimped or damaged, and should minimize vibrations, which may damage the cable or cable insulation.

ROOSTER® HUB INSTALLATION – STATIC STRUCTURE

Rooster® Hubs can be easily installed by the User on static structures or buildings. The Rooster® Hub exterior housing is compatible with mounting hardware such as zip ties, wood screws, machine screws, or bolts of the User's choosing.

Rooster® recommends using mounting bolts no larger than 1/4"-20.

Do not drill through or puncture the housing of Rooster® Hubs or Activity Trackers.

Tools needed: Drill or drill driver, drill bits of the appropriate size for the fasteners being used, wire nuts, electrical tape, cable clamps, zip ties, multimeter, etc.

Always use tools that are in good condition and that have been properly maintained.

Always wear proper personal protective equipment when using tools.

Check to make sure you will not be drilling into any unseen electrical, water or gas lines, or other sensitive infrastructure behind or beneath the mounting surface.

1. Begin by selecting the location on the structure where you wish to mount the hub.

For optimal performance, Rooster® Hubs should be mounted on the exterior of structures, with the Rooster® logo pointed toward unobstructed exposure to the open sky. If possible, mount Rooster® Hubs on the roof, or high on an exterior wall.

2. Avoid mounting Rooster® Hubs inside of buildings or structures, such as Conex boxes, or concrete or metal buildings.

Like cell phones, Rooster® Hubs require an optimal, unobstructed cellular signal. Structural steel, metal siding, close proximity to generators, walls or doors, trees, neighboring buildings, adjacent hills or mountains, or any interior mounting may limit the effectiveness of the Rooster® Hub's internal cellular and LoRa wireless antennas.

3. ***Mounting Rooster® Hubs in less than optimal locations may negatively impact the Rooster® Tracking Systems' ability to connect to the cellular network, or pair with and receive communications from Activity Trackers.***

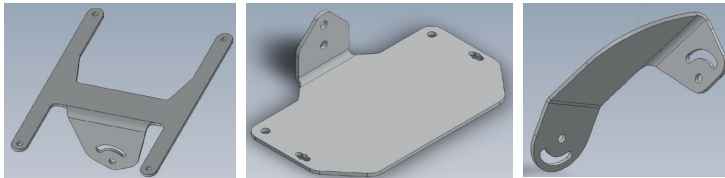
ROOSTER® HUB INSTALLATION – OPTIONAL SOLAR PANEL POWER SUPPLY



Rooster® offers auxiliary solar panels which may be used to power Rooster® Hubs when a Hub cannot be connected to, and continuously energized by, a Host vehicle's on-board power supply, or by an AC adapter.

Solar panels may be purchased at Rooster.com.

The solar panel comes with an adjustable bracket that mounts the panel and the Rooster® Hub together.



Install the Rooster® auxiliary solar panel along with the Rooster® Hub using the supplied, adjustable mounting bracket. Again,

inspect the installation site to ensure you will not damage any electrical, gas, water supply or other infrastructure behind or beneath the solar panel installation location.

Connect the solar panel power cable to the Rooster® Hub's power cable making sure the connector pins are aligned. Securely screw the connectors together to achieve a water proof connection. Secure the power cable with the cable clamps, zip ties, or other suitable hardware.

Avoid running the cable in or across walking paths to prevent tripping.

Adjust the solar panel to maximize its exposure to direct sunlight.

It may take several minutes to a few hours for the solar panel to generate sufficient electricity to energize the Rooster® Hub.

Power supplied by the solar panel may vary throughout a given day, or over the course of time based on location, weather, the position of the Sun, and other environmental factors. If the panel fails to generate a dependable level of power for the Rooster® Hub, consider re-positioning the panel and Rooster® Hub to a location with more consistent exposure to direct sunlight.

OPTIONAL AC ADAPTER INSTALLATION AND CONNECTION



Rooster® Hubs mounted in a static configuration on buildings or structures may be powered using an AC Adapter drawing from a 110 volt power supply.

Install the Rooster® Hub on the structure using appropriate fasteners.

Rooster® recommends using mounting bolts no larger than 1/4"-20.

Make sure that the power cable can be routed between a working 110 volt outlet in serviceable condition, and the Rooster® Hub.

Again, pre-inspect the installation site to ensure you will not damage any electrical, gas, water supply or other infrastructure behind or beneath the Rooster® Hub's location, or in the route of the power cord.

If securing with screws or bolts, mark and drill the holes required to mount the Rooster® Hub. Utilize anchors as necessary.

Mount the Rooster® Hub securely to the structure.

Next, run the cable between the Rooster® Hub and the power supply you've identified. Avoid routing the cable through doors or windows, through sharp holes or joints in the structure, or bending or twisting the cable at sharp angles – all of which could damage the cable or cable insulation, resulting in damage to the Rooster® Hub or structure.

Avoid running the cable in or across walking paths to prevent tripping.

Secure the cable with cable clamps, zip ties, or other suitable hardware. Securing the cable should keep it from being crimped or damaged, and should minimize cable movement, which may damage the cable or cable insulation.



Connect the 10 ft power cable to the Rooster® Hub cable. Then connect the short cable adapter between the 10 ft power cable and the AC adapter to energize the Rooster® Hub and begin activation.

Activity Tracker Installation

Rooster® Activity Trackers may be attached to a User's assets using a variety of methods:

- high bond adhesive tape
- a high strength magnet
- a flexible lanyard
- a protective deflector

While some Users may wish to conceal the presence of Activity Trackers, best communication performance between Activity Trackers and Rooster® Hubs is achieved by mounting Activity Trackers on exterior surfaces of vehicles and machines.

Mounting Activity Trackers inside the cabs, engine compartments, or service panels of machines or equipment may compromise the ability of the Activity Tracker to pair and communicate with Rooster® Hubs.

HIGH BOND ADHESIVE TAPE INSTALLATION



The mounting tape may not be repositioned after initial contact with a surface. ***Before exposing the adhesive, first test fit the Activity Tracker in the desired installation location. This will limit the risk of accidentally attaching the Activity Tracker in an undesirable location with the high bond tape.***

Once you are satisfied with the installation location for the Activity Tracker, thoroughly clean the surface to which you wish to mount the Activity Tracker using the high bond adhesive tape. The tape best adheres to clean surfaces free of dust, dirt, oils, and fuel.

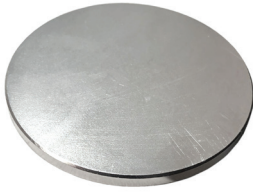
Using an alcohol wipe, clean the bottom surface of the Activity Tracker and the area on the asset where the Activity Tracker will be mounted.

Peel off the backing film from one piece of the tape and carefully press the glue side on to the bottom of the Activity Tracker.

Next, peel off the remaining backing film from the piece of tape. Carefully position the Activity Tracker over the desired location, and firmly press the Activity Tracker – adhesive side down – to the mounting surface.

Hold for :10 seconds while pressing firmly against the top of the Activity Tracker.

HIGH STRENGTH MAGNET INSTALLATION



If you wish to easily reposition Activity Trackers in the future, consider mounting your Activity Trackers with an optional high strength magnet.

Users may purchase high strength magnets for mounting Activity Trackers from Rooster.com.

Because Activity Trackers are non-magnetic, the optional high strength mounting magnets must be secured to the Activity Trackers using high bond adhesive tape.

To apply a magnet to an Activity Tracker, first clean the bottom surface of the Activity Tracker and the surface of the magnet with an alcohol wipe. Peel off the backing film from one piece of the tape and carefully press the glue side on to the bottom of the Activity Tracker.

Next, peel off the remaining backing film from the piece of tape and firmly press the Activity Tracker – adhesive side down – onto the magnet.

Select a desired mounting location on the asset to which you wish to attach a Activity Tracker.

First, ensure the mounting surface attracts a magnet. If it does not, find another mounting location that does attract a magnet.

WARNING: Neodymium magnets are very strong. Use extreme care when handling neodymium magnets. Keep them away from sensitive electronics, credit cards, ID badges, etc.

Next, make sure the mounting surface is clean, level, and free of debris such as mud, dried mud, concrete splatter, sand, welding slag, and any other substance or surface defect that might prevent the Activity Tracker's high strength mounting magnet from making complete contact with the metal surface.

If the entire surface of the Activity Tracker's high strength magnet does not make contact with the mounting surface in the desired location, clean and level the surface, or find a different mounting location where the magnet can make complete, secure contact with the mounting surface.

FLEXIBLE LANYARD INSTALLATION



Rooster® Activity Trackers may be mounted to Assets using a flexible lanyard.

The lanyard may be attached to an Asset with a maximum diameter of 2 inches.

No tools are required for lanyard installation.

Begin by locating the larger opening of the lanyard “pouch”. Insert the Activity Tracker into the pouch through the larger opening, with the Rooster® logo on the Activity Tracker facing toward you.

Stretch the rubber lanyard around the Activity Tracker until it is fully enclosed by the pouch.

Next, wrap the lead or tail of the lanyard around the asset.

Thread the lead through the slot on the lanyard, and pull it through the opposing side until the lanyard fits snugly around the Asset. Ensure that the Activity Tracker lanyard is attached securely enough that it will not come loose from the Asset while in use.

PROTECTIVE DEFLECTOR INSTALLATION



Rooster® offers a protective deflector mounting fixture that firmly secures Activity Trackers to surfaces that may be exposed to high impact or particularly rough service – such as a backhoe bucket or loader – which might dislodge an Activity Tracker installed using other methods: high bond adhesive tape, a high strength magnet, or a flexible lanyard.

Tools needed: Drill, or drill driver, marker, pencil, or awl

Hardware Provided: Protective deflector, #7 drill bit, 1/4-20 tap, 3 x 1/4-20 x 1" Tamper Proof Torx screws, a Tamper Proof torx bit

To install a Activity Tracker with a protective deflector, first select the desired location of the Activity Tracker.

Place the protective deflector on the installation surface, and mark the screw holes with a marker, pencil, punch, awl, etc.

Make sure you will not be drilling into any wiring, fluid or coolant lines, or other vital components that may be located beneath or behind the installation location.

Drill the pilot holes for the fasteners. **Do not drill through or puncture the housing of the Activity Tracker.**

Always use tools that are in good condition and that have been properly maintained.

Always wear proper personal protective equipment when using tools.

Place the Activity Tracker inside the protective deflector, with the Rooster® logo on the Activity Tracker facing you, and secure it to the desired location using the included hardware.

Activating Your Rooster® Tracking System

Use the Rooster® App to access your account and easily activate and configure your Rooster® Hubs and Activity Trackers.

To begin using the Rooster® Tracking System, users must complete a simple process known as “Provisioning” their Rooster® Hubs. Part of the provisioning process confirms each Rooster® Hub ID number matches the ID number in the cellular network.

Unlike Rooster® Hubs, Rooster® Activity Trackers are not linked to the cellular network.

When Activity Trackers are activated by a User, those specific Activity Trackers are also linked to the User's account, and are accessible using the Rooster® App.

ROOSTER® HUB ACTIVATION

Rooster® Hubs must be activated and “provisioned” via the Rooster® App to begin using the system.

Once each Rooster® Hub is energized with an approved power supply (12VDC or 24VDC, solar or AC), Users must “provision” or claim the Rooster® Hubs to their accounts. The Rooster® App automatically connects your Rooster® Hub, or Hubs, to the appropriate cellular network.

IMPORTANT: *DO NOT push the Hard Reset button on the Rooster® Hub to activate it.*

Upon being energized by a power supply, each Rooster® Hub will automatically attempt to connect to the designated cellular network.

Once the Rooster® Hub connects with the network, simply follow the instructions in the Rooster® App to complete the provisioning process.

ACTIVITY TRACKER ACTIVATION

Rooster® Activity Trackers come with batteries pre-installed in the Activity Trackers' sealed cases.

Activity Trackers do not require any external power source, and do not include any external buttons, switches or lights.

Activity Trackers utilize Near Field Communication (NFC) to activate, turn on and off, and re-set through the Rooster® App.

Simply log in to the Rooster® App on your phone or tablet and follow the simple instructions to turn on and activate your Rooster® Tracking System.

ROOSTER® HUB LED INDICATOR LIGHTS

The Rooster® Hub features a small LED light to indicate various conditions.

Solid Green – Indicates that the hub has power.

Slow Flashing – Indicates that the hub has lost its GPS signal. Do not push the Reset button.

Fast Flashing – Indicates a poor cellular signal. Do not push the Reset button.

For additional information, please refer to the Troubleshooting Section of this manual.

Configure Your Rooster® Tracking System

The Rooster® App gives Users the ability to name and organize Rooster® Hubs, Activity Trackers and Assets, and generate a variety of Reports.

To change the frequency of communications between Activity Trackers and Rooster® Hubs, or to adjust sensitivity settings, please call Rooster® Tech Support at **1-844-4ROOSTR**.

All other Settings are easily adjustable using the Rooster® App.

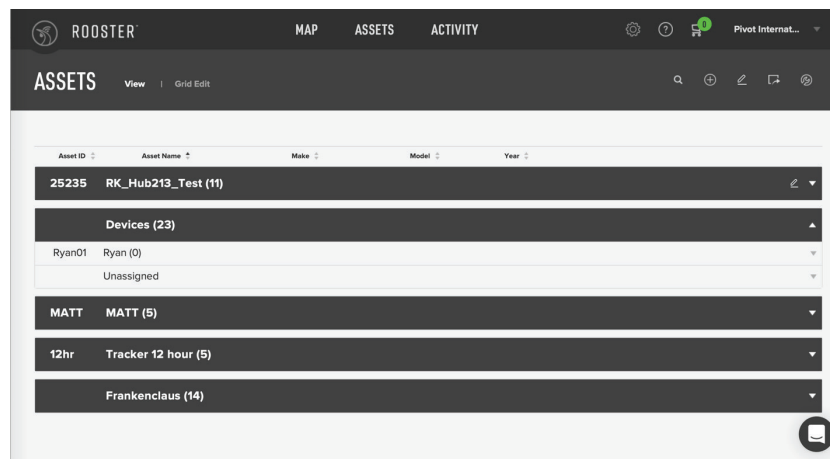
CATEGORIZE YOUR ASSETS

The Rooster® App enables Users to organize and manage their Assets by Category, making it easy to group, name, and track Assets.

To create a Category, or to change the name of a Category, click on ASSETS in the Menu.

A list of Asset Categories is Displayed.

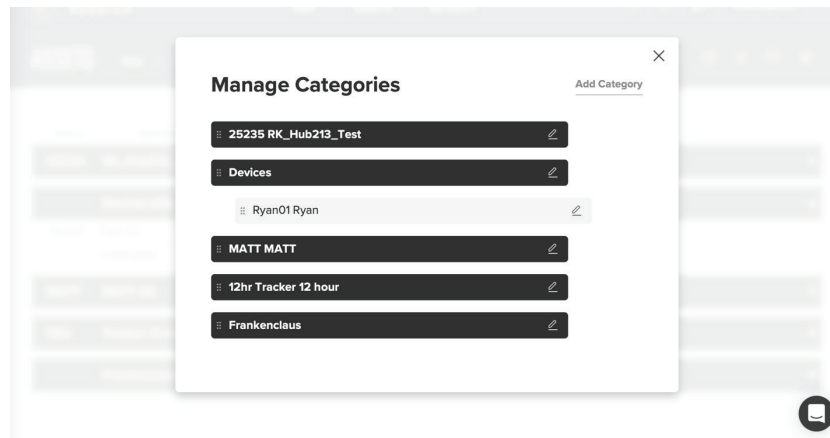
Click on the “Edit” icon at the far, right edge the ASSETS screen and select “Manage Categories.”



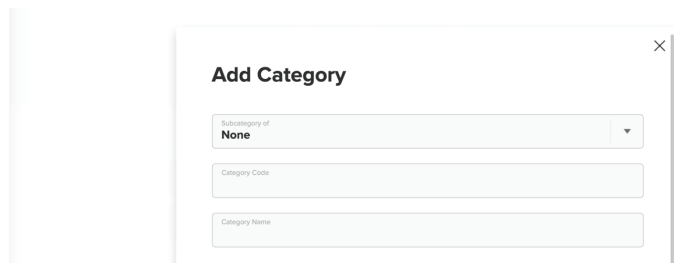
The Manage Categories screen appears.

Here, Users can add a Category, assign or change a Category name, Category Code, and assign a Sub-category. Mode Settings may also be configured in this window. Modes will be discussed later in this Guide.

To add a category, simply click “Add Category” in the upper right edge of the dialog box.



Set up a new asset Category by naming the Category, adding a category code if desired, and adding any sub-category information.

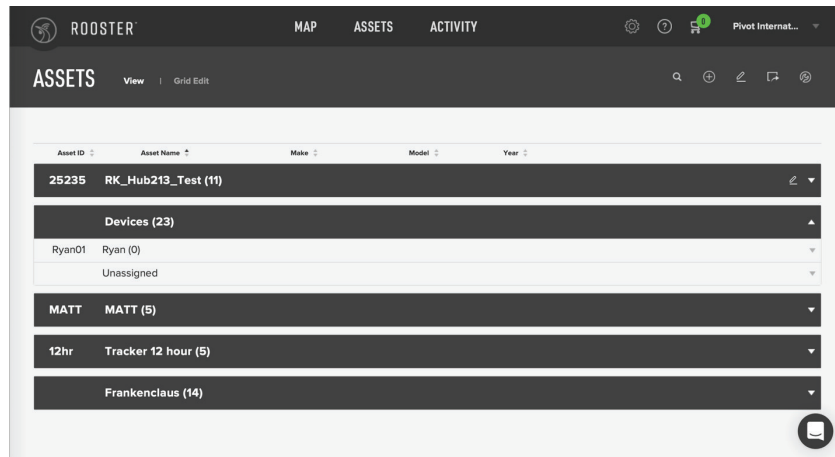


Within the Rooster® App, Users can create and name Asset Categories however they wish.

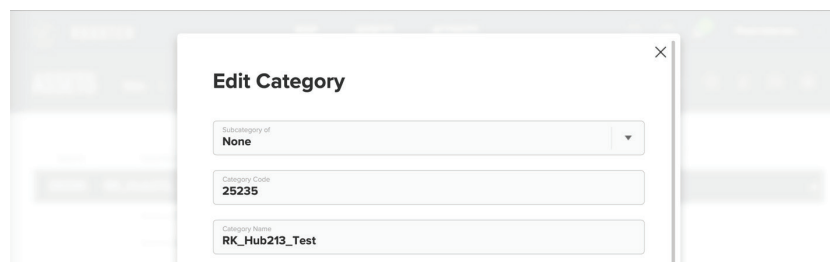
A User may wish to Categorize Assets by Type, such as:

- Heavy Earthmoving
- Light Earthmoving
- Trucking and Hauling
- Paving and Compacting
- Lifting and Material Handling
- Drilling and Trenching
- Light Equipment
- Auxiliary

Users can edit the information associated with each category at any time. Click on ASSETS in the menu.



Click on the Edit button at the far right edge of any Category's tab. The Edit Category (dialog) screen appears.

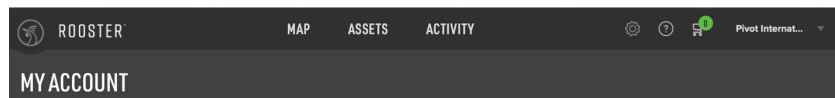


Make any changes. Be sure to scroll down and click “SAVE” when finished to save your changes to Category settings. Click the “DELETE” button to delete a category.

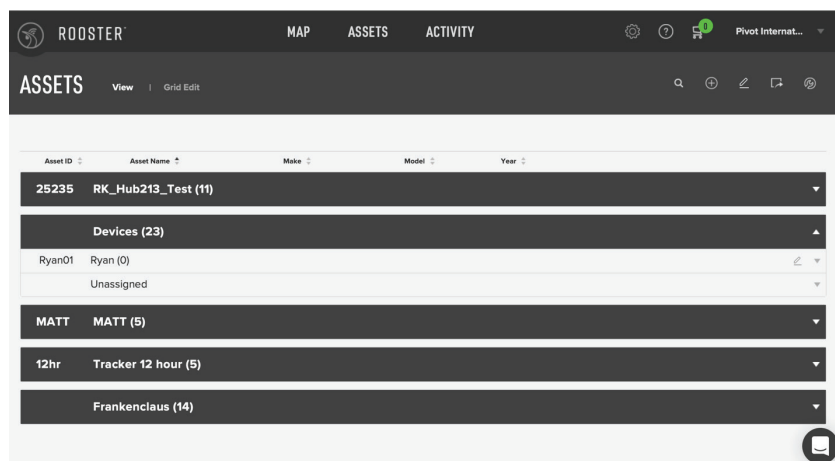
ROOSTER® HUB AND ACTIVITY TRACKER NAMING – USER-ASSIGNED NAMES FOR ASSETS

Within the Rooster® App, Users may also edit or assign names to Rooster® Hubs and Activity Trackers. Assigning unique names to Rooster® Hubs and Activity Trackers can help Users quickly identify the Assets they are tracking, and leverage specific movement and usage data associated with each, specific Asset.

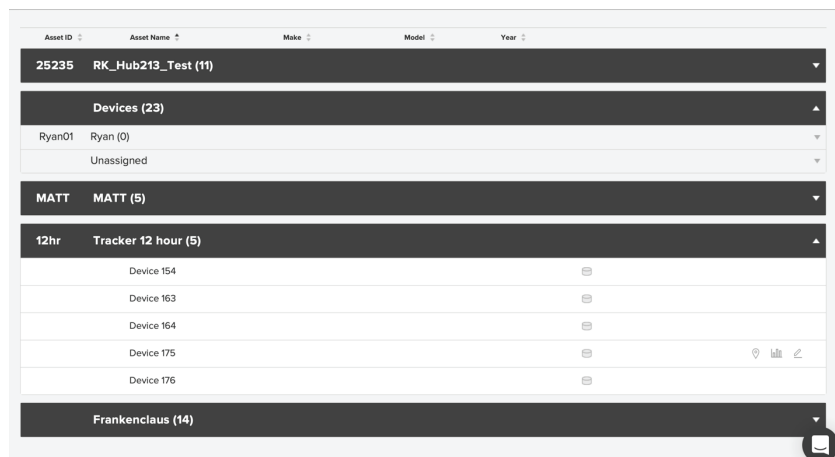
To edit or change an Asset ID, simply click on “ASSETS” in the menu bar.



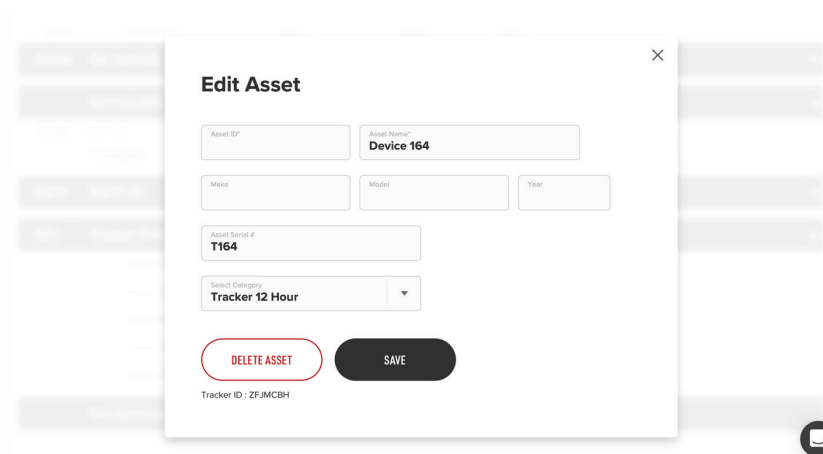
A drop down menu appears listing all your Categories of Rooster® Assets.



Select any Category to view a list of specific assets organized within that category.



From the category list, select an Asset you wish to Edit.



Edit Asset

Asset ID*

Asset Name* **Device 164**

Make Model Year

Asset Serial # **T164**

Select Category **Tracker 12 Hour**

DELETE ASSET **SAVE**

Tracker ID : ZFJMCBH

The Edit Asset window opens for the selected Asset. Here, you can:

- Change the Asset ID #
- Assign or Edit the Asset name
- Enter the Asset Make, Model, and Year: (Example: Bobcat, T450, 2020)
- Enter the Asset's Factory Serial #
- Select a Category under which to organize each specific asset
 - Heavy Earthmoving
 - Light Earthmoving
 - Trucking and Hauling
 - Paving and Compacting
 - Lifting and Material Handling
 - Drilling and Trenching
 - Light Equipment
- SAVE changes or DELETE the Asset

At any time, Users can “read” an Activity Tracker using the near field communications (NFC) capabilities their of cell phone or device equipped with the Rooster® App.

If a Activity Tracker comes off an asset (lanyard breaks, tape fails, Activity Tracker gets knocked off) the user can scan it and the ID information appears on the Rooster® App. The Activity Tracker can then be re-attached to the corresponding Asset.

(IMAGERY NEEDED/SCREENS OF APP UI)

ROOSTER® ACTIVITY TRACKER MODES

The Rooster® Activity Tracker can operate in two modes – “**Shake & Wake**” mode and “**Frequency Based**” mode.

These modes control how Activity Trackers function, and the frequency of data transmissions from the Activity Trackers to Rooster® Hubs.

If an Activity Tracker has been deactivated, upon reactivation the Activity Tracker will automatically revert to the Mode it was in prior to its deactivation.

Default Mode – Shake & Wake

When a Activity Tracker is activated for the first time, the default mode setting is “**Shake & Wake**” mode. In this mode, the Activity Tracker will “sleep” until it detects movement of the Asset to which it is connected – the “*shake*.”

Movement of the Asset wakes up the Activity Tracker – the “*wake*.”

In the Shake & Wake mode, once the Activity Tracker registers movement and wakes up, it will attempt to pair with a Rooster® Hub and transmit its data.

When the Activity Tracker has successfully paired with a Rooster® Hub, it will send its activity to the Rooster® Hub showing it has been activated by movement. From that point on, the Activity Tracker will begin reporting at **8-minute intervals** until Asset activity or movement stops.

When the Activity Tracker is in the Shake & Wake mode, the data transmit interval cannot be changed by the Subscriber.

Tracker Heartbeat

When an Activity Tracker set to the “Shake & Wake” mode experiences no activity for 7 consecutive days (168 hours), it will attempt to communicate with a nearby Rooster® Hub.

Rooster® Activity Trackers store up to 30 consecutive days of Asset data **if it is unable to pair with a Rooster® Hub**. The last 30 consecutive days of data stored on a Activity Tracker will be transmitted to a Rooster® Hub once the Activity Tracker pairs with a Hub.

Frequency Based

Activity Trackers also feature a Frequency Based mode that allows them to pair with a Rooster® Hub and report at regular intervals of time, regardless of the amount of activity the Activity Tracker experiences. This Frequency Based interval can be changed by calling Rooster® Support at 1-844-4ROOSTR (844-476-6787).

Shortening the reporting time interval may reduce the battery life of the Activity Tracker .

Rooster® Hub/Activity Tracker Pairing

While in Frequency Based mode, an Activity Tracker's data transmit interval initiates the device to pair with the nearest Rooster® Hub with the highest pairing quality. Upon identifying the best Rooster® Hub with which to pair, the Activity Tracker will transfer Asset activity and temperature data.

Troubleshooting and Technical Support

While the Rooster® Tracking System is designed to provide trouble-free, dependable service, environmental conditions and other variables may limit the performance of the system from time.

The best indicator of system performance is the appearance of current or very recent data coming through your user portal on the Rooster® website or Rooster® App.

If you are not receiving data, first check your Rooster® Hub(s) for the presence of a cell signal.

If your Rooster® Hub has a cellular signal, the LED will not be flashing.

If your Rooster® Hub does not have a cellular signal, the LED will be flashing.

If you experience a flashing LED on a Rooster® Hub, first call Rooster® Tech Support at **1-844-4ROOSTR (1-844-476-6787)**.

DO NOT push the Reset button on the Rooster® Hub.

Rooster® Tech Support will assist you in diagnosing the problem via their Admin Portal, and can direct you in resolving the issue. This may include Resetting a Rooster® Hub – if needed.

Users may also seek online technical support and review a number of useful FAQs and Tech Support Discussions at **app.rooster.com**.