DEXTER

DEX360™
SMART TRAILER SYSTEM

INSTALLATION MANUAL

DEX360: SMART TRAILER SYSTEM

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DEXTER

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@DEXTER_TOGETHER

SECTION 1 - INTRODUCTION

⚠ CAUTION

THIS IS A SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL INJURY HAZARDS. OBEY ALL SAFETY MESSEGES THAT FOLLOW THIS SYMBOL TO AVOID POSSIBLE INJURY OR DEATH.

The purpose of this document is to detail the installation requirements and guidelines for the DEX360 Smart Trailer. Detail within this document is provided by Dexter as a guideline to the proper and correct installation for trailer manufacturers and installers. This installation advice is based on the design of the DEX360 system and experience from system testing.

⚠ CAUTION

THE DEXTER DEX360 SYSTEM SHOULD ONLY BE INSTALLED BY A QUALIFIED TECHNICIAN.

Installation steps listed in this manual are not meant to cover every trailer type, but provide the required elements needed to install DEX360 successfully. Each trailer type may require steps not individually stated but implied.

⚠ CAUTION

PLEASE REVIEW AND UNDERSTAND ALL INSTALLATION MANUAL INSTRUCTIONS BEFORE BEGINNING INSTALLATION. MANY STEPS ARE SEQUENTIAL SO IT IS NECESSARY TO COMPLETE ALL ELEMENTS AS INSTRUCTED.

1. **Read Before Installation:** Before installing this product, carefully read this manual to ensure proper system functionality post-installation.
2. **Monitoring Capabilities:** While the product effectively monitors trailer tire pressure and helps prevent tire failure, it cannot guarantee the avoidance of unexpected accidents. Users should ensure that trailer tires are maintained at proper pressure and avoid using worn or substandard tires.
3. **No Unauthorized Repairs:** Users should not open, repair, or modify this product to avoid damaging the internal circuitry.
4. **Alarm Notifications:** The system alerts users through the app when trailer system settings are abnormal.
5. **Regular Tire Checks:** Even with DEX360 installed, users are strongly advised to regularly inspect trailer components to maintain safety.

1.1 - SUGGESTED TOOLS

- Zip Ties
- Wire/Cable Clamps
- Phillips Screwdriver/ Drill Bit
- 5/16” Nut Driver Bit
- Tape Measure
- Side Cutters
- Cordless Drill/Impact

1.2 - COMPONENTS INCLUDED

- DEX-102 Telematics Device (058-042-00)
- CAN Module (058-044-00)
- Axle Module (058-045-01)
- Dual Wheel Axle Module (058-045-02) (Dual Wheel ONLY)
- Harness, Telematics – One of the following dependent on your trailer length:
  - 058-048-10 (10’)
  - 058-048-20 (20’)
  - 058-048-30 (30’)
- Harness, TPMS Axle Module – One of the following dependent on trailer axle configuration:
  - 058-048-01 (Single Axle Single Wheel)
  - 058-048-02 (Tandem Axle Single Wheel)
  - 058-048-03 (Triple Axle Single Wheel)
  - 058-048-22 (Tandem or Triple Axle Dual Wheel)
- Antennas (058-047-00) - Number of antennas dependent on trailer axle configuration:
  - Single Axle Single Wheel - requires 0 antennas
  - Tandem Axle Single Wheel - requires 1 antenna
  - Tandem Axle Dual Wheel - requires 4 antennas
  - Triple Axle Single Wheel - requires 2 antennas
  - Triple Axle Dual Wheel - requires 4 antennas
- Antenna Nylon Spacers (005-653-00)
- Screws 1.5”, Mounting Hardware (007-720-00)

1.3 - INTRODUCTION TO DEX360'S FEATURES

DEX360 includes an advanced trailer monitoring system that enhances safety, security, and convenience with features like real-time Tire Pressure and Monitoring System (TPMS), battery level tracking, and GPS location. The system alerts users to changes beyond set limits, helping to improve performance, reduce fuel consumption, extend tire life, and minimize accident risks. With innovative features like geofencing and virtual odometers, DEX360 provides unparalleled asset management and peace of mind. Dexter sets a new standard by bringing automotive-grade technology to the trailer industry, delivering cutting-edge solutions for drivers everywhere.

1. **Pressure and Temperature Fluctuations:** Variations in tire pressure and temperature due to driving conditions, like heat buildup from friction, are normal.
2. **Tire Pressure Maintenance:** Maintaining the recommended tire pressure, as shown on the tire label, reduces the risk of tire damage or flats.
3. **Driver Attention:** DEX360 TPMS sensors alert drivers to abnormal tire conditions. Avoid focusing on the app while driving to prevent distractions.
4. **Natural Leakage:** Tires may naturally lose or gain pressure over time due to temperature changes. This is normal and not related to the product's performance.
5. **Wireless Connection:** The telematics system and app connect wirelessly via Bluetooth and cellular with long-range capability. While interference is rare, it can occasionally occur.
6. **Proper Use:** Use the product within its specified range. The company is not responsible for issues caused by misuse.
7. **Monitoring Limitations:** DEX360 monitors and alerts for abnormal tire conditions but cannot prevent all tire punctures or accidents.

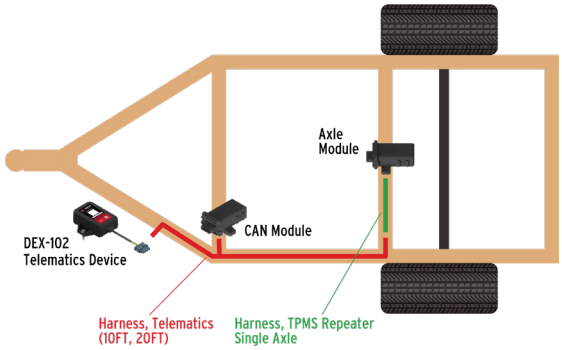
SECTION 2 - SINGLE WHEEL INSTALLATION INSTRUCTIONS

2.1 - SINGLE WHEEL TRAILER LAYOUT GUIDES

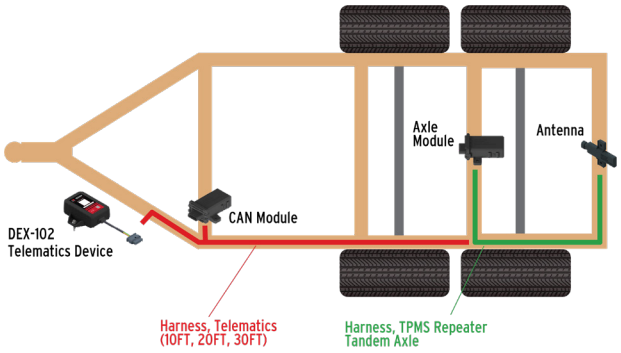
This guide outlines the installation of three single wheel trailer options: single axle, tandem axle, and triple axle. For a visual reference, please refer to the graphic layout below, specific to your trailer type.

NOTE: Component orientations for proper installation may differ from the graphics below. These visuals serve as a general guide for part placement, not exact orientation, placement on trailer, or harness positioning.

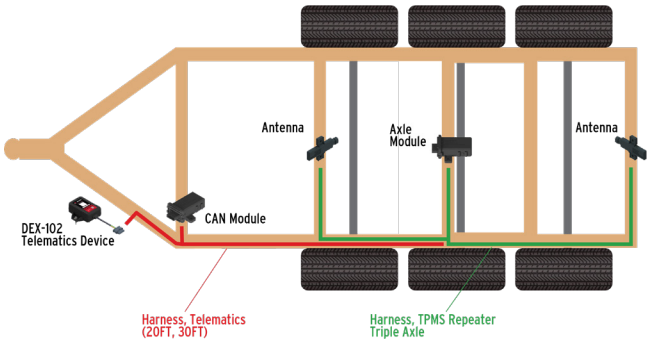
SINGLE AXLE - SINGLE WHEEL



TANDEM AXLE - SINGLE WHEEL



TRIPLE AXLE - SINGLE WHEEL



RECOMMENDED ECU MOUNTING HARDWARE

The recommended mounting hardware is a #12-14 x 1.5", Hex Flange Head screw. There are 4 mounting screws provided with the install kit, (Dexter part number 007-720-00). The supplied screw should be torqued to 4.4 ± 1 ft lbs (6 ± 1.5 Nm) to ensure secure mounting to the chassis rail.

RECOMMENDED ECU MOUNTING TECHNIQUE

Upon determining the proper location and orientation, the final attachment is important. The DEX360 install kit is supplied with hardware appropriate to attach the ECU to light gauge steel. All holes should be pre-drilled to avoid shift during installation. Alternative frame materials may require hardware not supplied in the kit. Doing so is considered acceptable if fasteners meet or exceed those supplied with the kit. All attachment points should be used during installation.

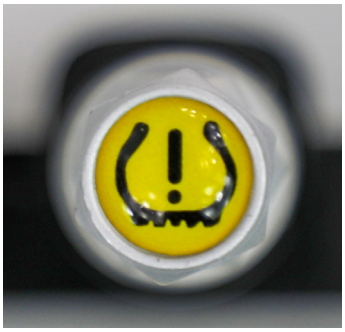
NOTE: The DEX360 mounting orientation of all components must be strictly adhered to. Any deviation from these instructions may result in reduced system performance.

NOTE: Before installing components on the trailer, Dexter recommends laying out the harness to determine the required length and spacing between components.

REQUIRED TPMS TIRE SENSORS

Before beginning the installation process, it is essential to ensure the trailer's tires and wheels are equipped with pre-installed TPMS sensors. Dexter tires and wheels with these sensors must be used for the DEX360 system to function properly.

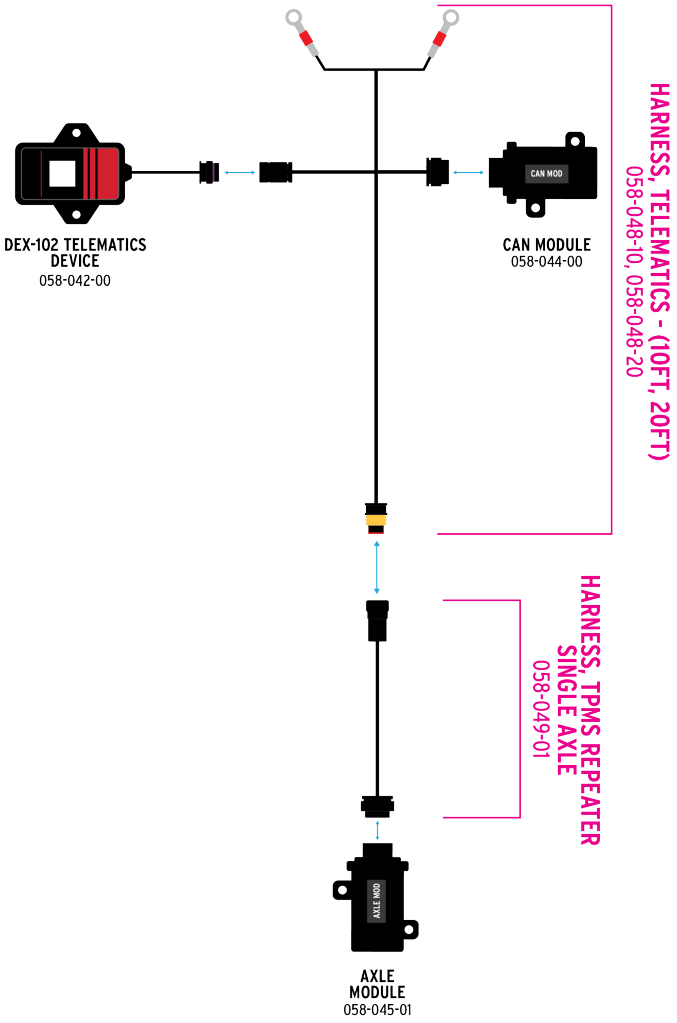
These Dexter tires and wheels will feature a black and yellow valve stem cap with the TPMS icon shown. See the image below for a reference of the TPMS icon.



2.2 - WIRING GUIDES

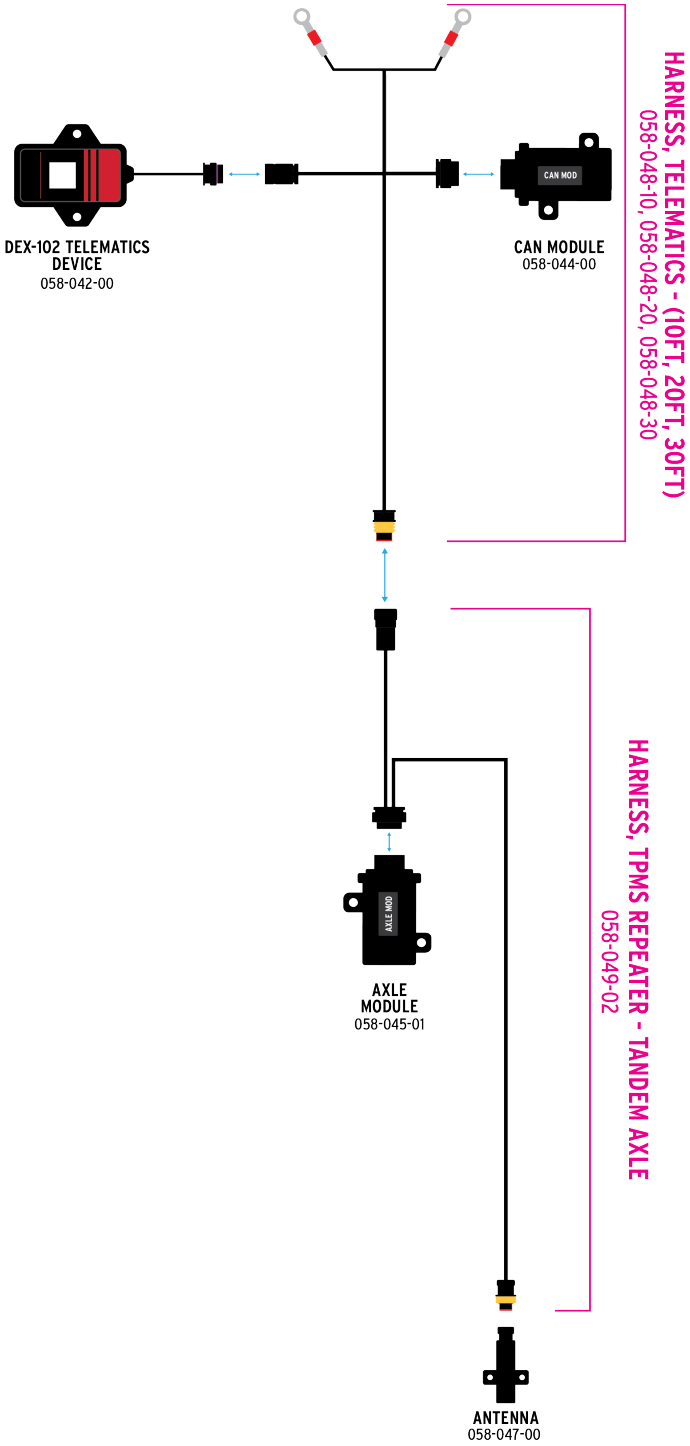
Single Axle Single Wheel Trailer

Figure 1



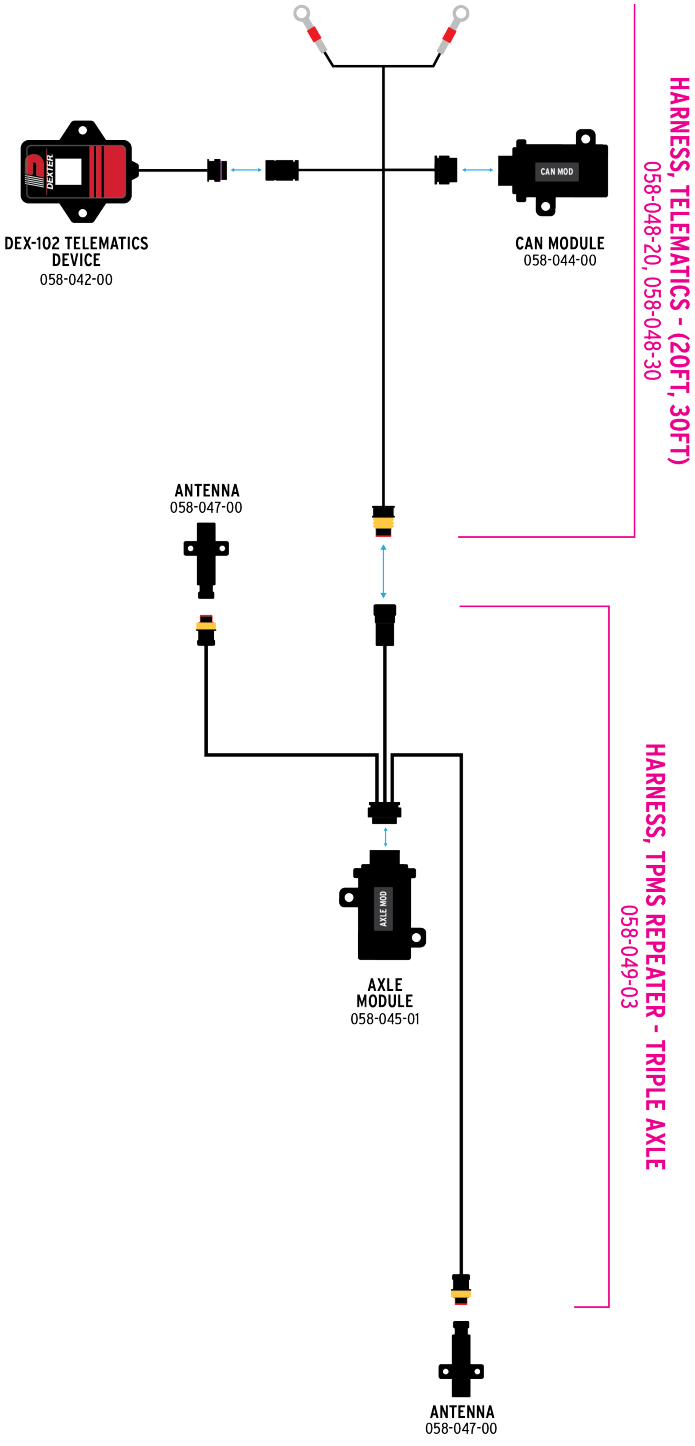
Tandem Axle Single Wheel Trailer

Figure 2



Triple Axle Single Wheel Trailer

Figure 3



2.3 - DEX-102 TELEMATICS DEVICE

INSTALLATION:

Select a location on the trailer frame that ensures strong cellular, bluetooth, and GPS signals. This location should be easily accessible to the user for maintenance. The preferred installation location is on the trailer tongue.

The ideal mounting posistion is vertical with the power connection pointing dowwards.

The DEX-102 Telematics Device should NOT be placed in an enclosed metal container or area as it can interfere with the signal.

See top image above for reference on orientation.

Ensure the location is within reach of a 12V power source and ground connection. If the trailer has an onboard bettery, it is preferred to connect directly to the battery.

NOTE: DO NOT CONNECT THE DEX-102 TELEMATICS DEVICE TO THE BREAKAWAY BATTERY. THE DEX360 SYSTEM SHOULD NEVER BE CONNECTED TO THE BREAKAWAY BATTERY.

NOTE: AVOID MOUNTING THE DEX-102 TELEMATICS DEVICE ON THE TRAILER'S UNDERSIDE.

Secure the DEX-102 Telematics Device to the trailer frame using appropriate mounting hardware. Make sure it is firmly attached.

WIRING:

Connect the 12v power and ground wires from the Harness, Telematics (058-048-10/20/30) to the trailer battery or 7 way 12v power source.

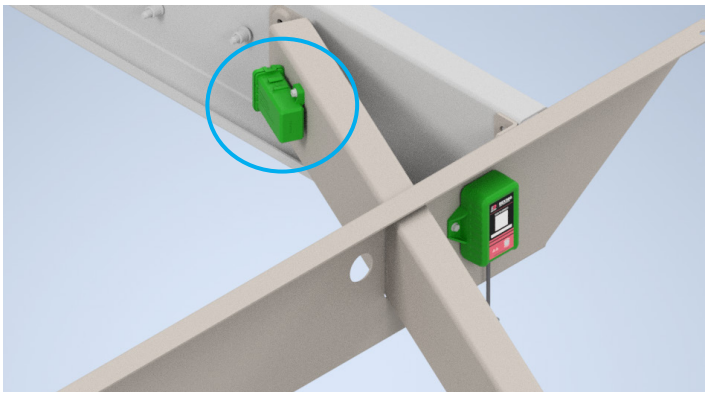
2.4 - CAN MODULE

INSTALLATION:

Install the CAN Module on the trailer frame near the DEX-102 Telematics Device to keep the wiring short and manageable.

Mounting the CAN Module under the trailer is ideal. CAN Module should be placed where there will be a line-of-sight to the Axle Module.

Secure the CAN module to the trailer frame using provided mounting hardware.



WIRING:

Install and connect the CAN Module using the Harness, Telematics (058-048-10/20/30) to wire the CAN Module to the DEX-102 Telematics Device. See Figure 1 on page 5 for connection point references.

2.5 - AXLE MODULE

INSTALLATION:

Choose a location near the trailer's axles where the Axle Module can effectively communicate with both the CAN Module and any Antenna(s) needed for your trailer model.

The Axle Module and tires require a clear line of sight between them for tandem and triple axles. There should also be a line of sight between the Axle Module and CAN Module.

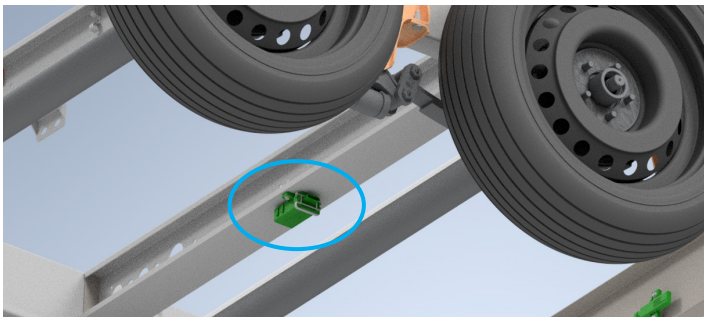
The ideal location for the Axle Module is on a trailer support beam near the midline.

CAUTION

DO NOT MOUNT THE AXLE MODULE TO ANY OF THE TRAILER AXLES.

BEFORE INSTALL: If the module(s) do not fit on the trailer beam, a mounting plate may be needed. Install the module onto the mounting plate before attaching it to the trailer beam.

Secure the Axle Module or mounting plate (if necessary) to the trailer frame using provided mounting hardware. See the image below for reference on placement under the trailer.



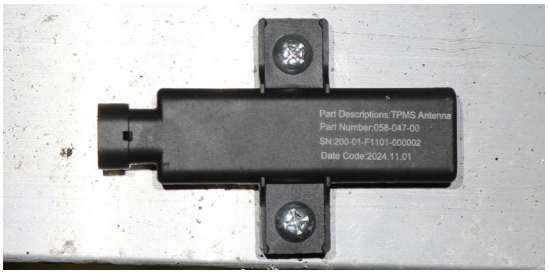
WIRING:

Using the previous harness (Harness, Telematics [058-048-10/20/30]), connect the remaining end to the second harness (Harness, TPMS Axle Module [058-049-01/02/03]).

Next, connect the Harness, Telematics (058-048-10/20/30) to the Axle Module.

2.6 - ANTENNAS FOR TANDEM AXLE TRAILER

NOTE: SINGLE AXLE TRAILERS DO NOT NEED ANTENAS TO OPERATE



INSTALLATION:

Mount the Antenna on the rear frame area behind the rear axle, near the midline of the trailer. It should be positioned horizontal to the trailer beam, with the connection facing left or right toward the tires.

The mounting distance between the tires, wheels, and Antenna is critical for proper system functionality. Please refer to the following section, including the chart and graphic, for the correct measurements.

NOTE: It is acecptable to mount the antenna with the front side (side with text) facing towards the ground. The connection point and opposite side must still be facing towards the tires for signal strength.

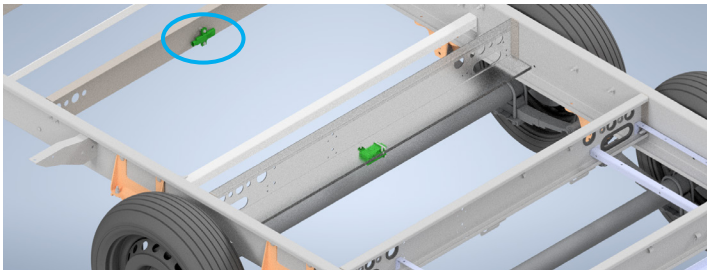
CAUTION

ANTENNA WILL NOT FUNCTION IF THE ORIENTATION IS INCORRECT. ANNTENAS MUST BE MOUNTED HORIZONTAL TO TRAILER BEAMS.

The Antenna requires a clear line of sight to the tires for tandem axles. Ensure the Antenna is mounted securely and oriented horizontal for optimal signal reception to the wheel sensors.

The Antenna should be mounted using provided mounting hardware, including 1/2 inch spacers (005-653-00), to reduce surface contact between Antenna and trailer beam.

See image below for reference.

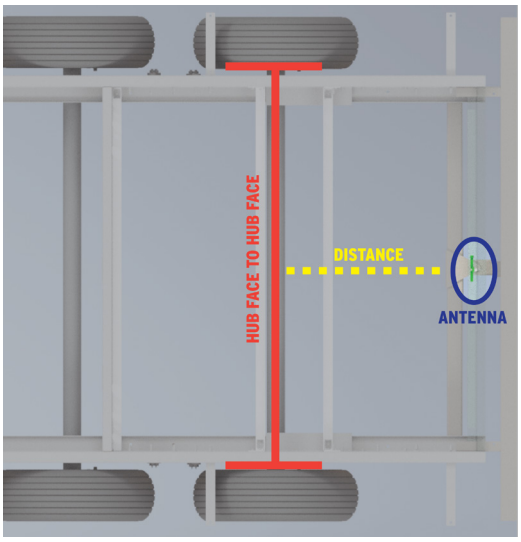


INSTALLATION DISTANCE:

The Antenna must be installed within a specific range from the rear axle to function properly. Refer to the chart below for the recommended minimum and maximum distances between the Antenna and the axle.
The hub face dimension, which refers to the axle length, helps determine the correct mounting distance.

See chart for a listing of the minimum and maximum distances. See the graphic below for reference on where to measure the distance between the Antenna and the axle.

HUB FACE TO HUB FACE	MINIMUM LENGTH	MAXIMUM LENGTH
60"	34"	48"
77"	29"	44"
94"	30"	40"



WIRING:

Use the Harness, Telematics (058-049-02) to connect the Axle Module to the Antenna.

See the image above for reference on placement on the trailer. See Figure 2 (on page 6) for connection point references.

2.7 - ANTENNAS FOR TRIPLE AXLE TRAILER

INSTALLATION:

Mount one Antenna on the rear frame area behind the rear axle and the second Antenna on a trailer beam in front of the front axle. Each Antenna should be positioned near the trailer's midline, aligned horizontally with the trailer beam, with its connection point facing outward toward the tires.

The mounting distance between the tires, wheels, and Antennas are critical for proper system functionality. Please refer to the following section, including the chart and graphic, for the correct measurements.

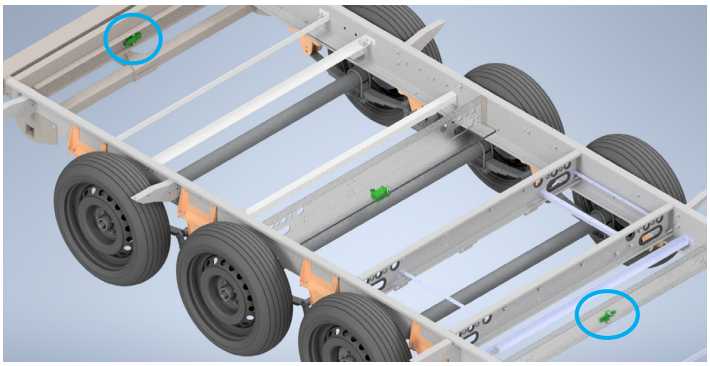
CAUTION

ANTENNAS WILL NOT FUNCTION IF THE ORIENTATION IS INCORRECT. ANNTENAS MUST BE MOUNTED HORIZONTAL TO TRAILER BEAMS.

Ensure the harness can properly reach each Antenna. For triple axles, the Antennas require a clear line of sight to the tires. Each Antenna should be securely mounted and oriented to optimize signal reception to the wheel sensors.

Use the provided mounting hardware, including 1/2-inch spacers (005-653-00), to minimize surface contact between the Antennas and trailer beams.

See the image below for reference on placement on the trailer.

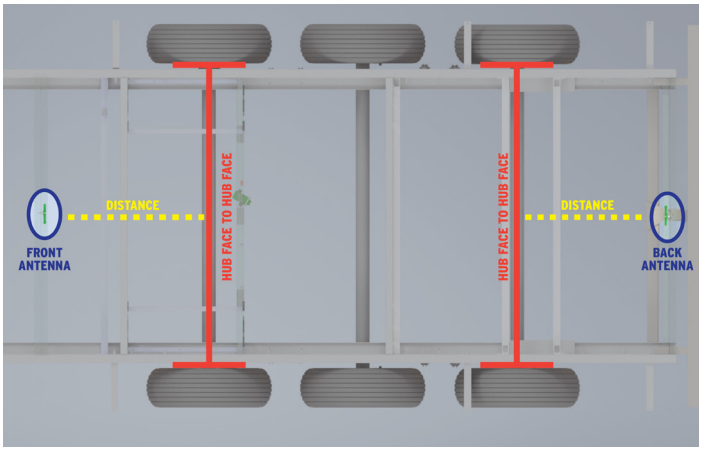


INSTALLATION DISTANCE:

The Antennas must be installed within a specific range from the front or rear axles to function properly. Refer to the chart below for the recommended minimum and maximum distances between each Antenna and each axle.
The hub face dimension, which refers to the axle length, helps determine the correct mounting distance.

See chart for a listing of the minimum and maximum distances. See the graphic below for reference on where to measure the distance between each Antenna and their cooresponding axle.

HUB FACE TO HUB FACE	MINIMUM LENGTH	MAXIMUM LENGTH
60"	34"	48"
77"	29"	44"
94"	24"	40"



WIRING:

Use the Harness, Telematics (058-049-03), to connect the Axle Module the the Antennas.

See Figure 3 (on page 6) for connection point references.

SECTION 3 - SYSTEM SETUP

3.1 - POWER SYSTEM ON

Ensure all modules are correctly installed and connected with the appropriate harnesses. Then, press the 'Press to Wake' button to activate the system and exit factory mode. Confirm that the DEX-102 Telematics Device is powered on, indicated by the illuminated 'Awake' LED.

NOTE: It may take 3-5 minutes for the system to become active and connect to the DEX360 App.

NOTE: If the 'Awake' status light is not illuminated, please re-check the system:

- Ensure all harness and component connections are secure.
- Verify the system is connected to a charged 12V power source.
- Restart from Section 2.1 and confirm all connections and components are installed according to the installation manual.

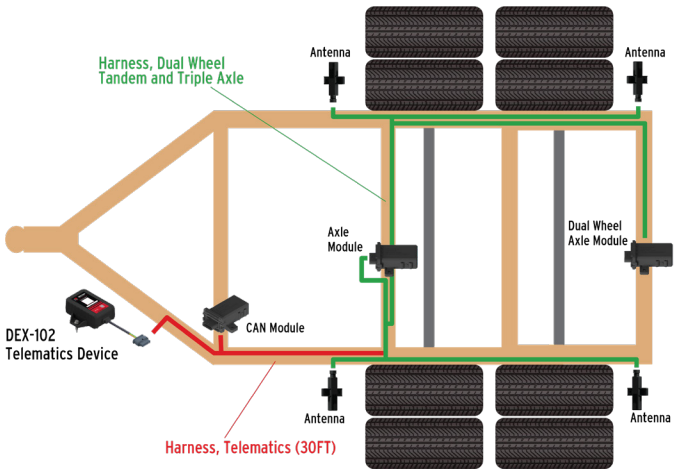
SECTION 4 - DUAL WHEEL INSTALLATION INSTRUCTIONS

4.1 - DUAL WHEEL TRAILER LAYOUT GUIDES

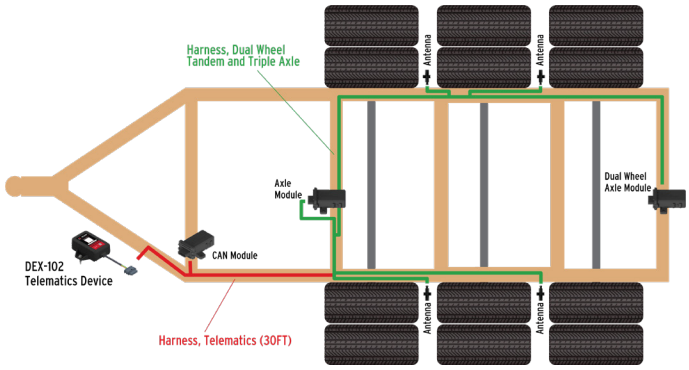
This guide outlines the installation of 2 different dual wheel trailer options: tandem axle and triple axle. For a visual reference, please refer to the graphic layout below, specific to your trailer type.

NOTE: Component orientations for proper installation may differ from the graphics below. These visuals serve as a general guide for part placement, not exact orientation, placement on trailer, or harness positioning.

TANDEM AXLE - DUAL WHEEL



TRIPLE AXLE - DUAL WHEEL



RECOMMENDED ECU MOUNTING HARDWARE

The recommended mounting hardware is a #12-14 x 1.5", Hex Flange Head screw. There are 4 mounting screws provided with the install kit, (Dexter part number 007-720-00). The supplied screw should be torqued to 4.4 ± 1 ft lbs (6 ± 1.5 Nm) to ensure secure mounting to the chassis rail.

RECOMMENDED ECU MOUNTING TECHNIQUE

Upon determining the proper location and orientation, the final attachment is important. The DEX360 install kit is supplied with hardware appropriate to attach the ECU to light gauge steel. All holes should be pre-drilled to avoid shift during installation. Alternative frame materials may require hardware not supplied in the kit. Doing so is considered acceptable if fasteners meet or exceed those supplied with the kit. All attachment points should be used during installation.

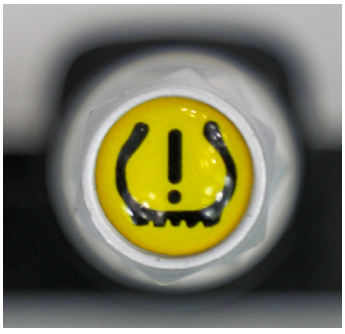
NOTE: The DEX360 mounting orientation of all components must be strictly adhered to. Any deviation from these instructions may result in reduced system performance.

NOTE: Before installing components on the trailer, Dexter recommends laying out the harness to determine the required length and spacing between components.

REQUIRED TPMS TIRE SENSORS

Before beginning the installation process, it is essential to ensure the trailer's tires and wheels are equipped with pre-installed TPMS sensors. Dexter tires and wheels with these sensors must be used for the DEX360 system to function properly.

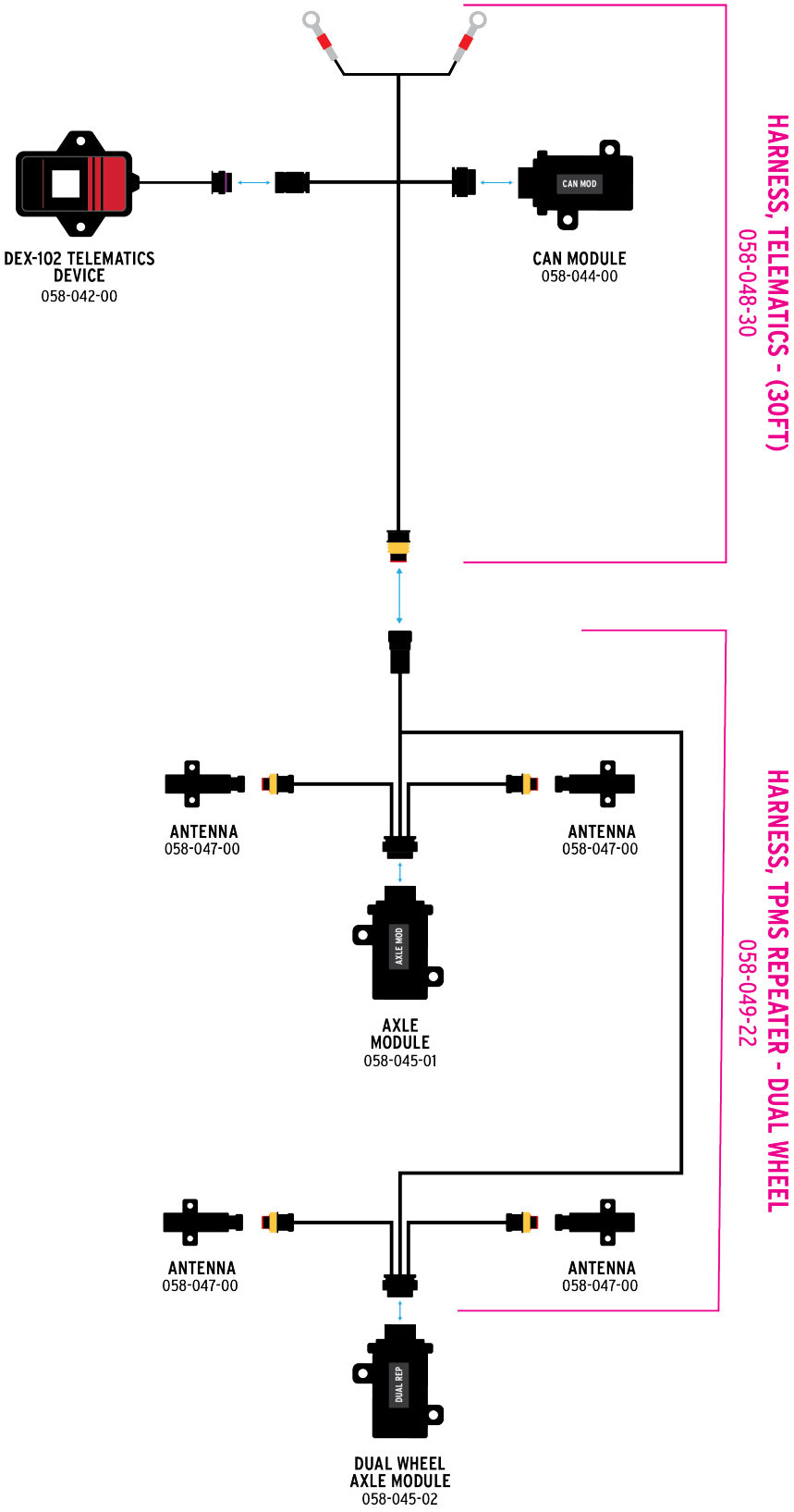
These Dexter tires and wheels will feature a black and yellow valve stem cap with the TPMS icon shown. See the image below for a reference of the TPMS icon.



4.2 - WIRING GUIDES

Tandem or Triple Axle - Dual Wheel Trailers

Figure 4



4.3 - DEX-102 TELEMATICS DEVICE

INSTALLATION:

Select a location on the trailer frame that ensures strong cellular, bluetooth, and GPS signals. This location should be easily accessible to the user for maintenance. The preferred installation location is on the trailer tongue.

The ideal mounting posistion is vertical with the power connection pointing dowwards.

The DEX-102 Telematics Device should NOT be placed in an enclosed metal container or area.

See top image above for reference on orientation.

Ensure the location is within reach of a 12V power source and ground connection.

NOTE: AVOID MOUNTING THE DEX-102 TELEMATICS DEVICE ON THE TRAILER'S UNDERSIDE.

Secure the DEX-102 Telematics Device to the trailer frame using appropriate mounting hardware. Make sure it is firmly attached.

WIRING:

Connect the 12v power and ground wires from the Harness, Telematics (058-048-30) to the trailer battery or 7 way 12v power source.

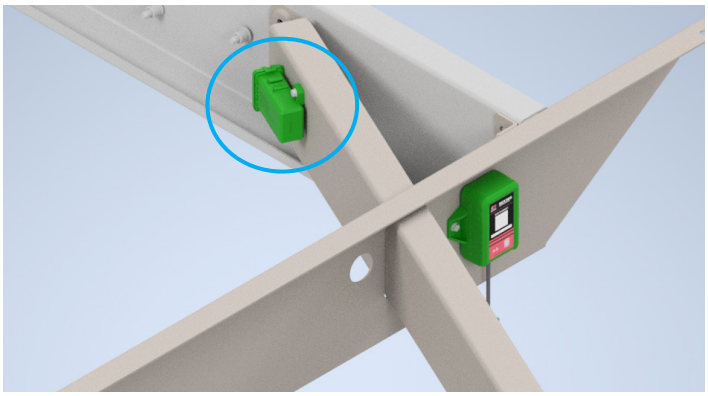
4.4 - CAN MODULE

INSTALLATION:

Install the CAN Module on the trailer frame near the DEX-102 Telematics Device to keep the wiring short and manageable.

Mounting the CAN Module under the trailer is ideal. CAN Module should be placed where there will be a line-of-sight to the Axle Module.

Secure the CAN module to the trailer frame using provided mounting hardware.



WIRING:

Install and connect the CAN Module using the Harness, Telematics (058-048-30) to wire the CAN Module to the DEX-102 Telematics Device. See Figure 4 on page 12 for connection point references.

4.5 - AXLE MODULE

INSTALLATION:

Choose a location in front of the trailer's axles where the Axle Module can effectively communicate with the CAN Module and the Antennas needed for your trailer model.

The Axle Module and tires require a clear line of sight between them for tandem and triple axles. There should also be a line of sight between the Axle Module and CAN Module.

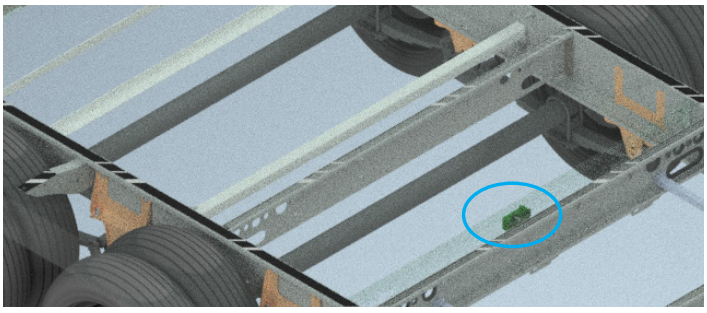
The ideal location for the Axle Module is on a trailer support beam near the midline.

CAUTION

DO NOT MOUNT THE AXLE MODULE TO ANY OF THE TRAILER AXLES.

BEFORE INSTALL: If the module(s) do not fit on the trailer beam, a mounting plate may be needed. Install the module onto the mounting plate before attaching it to the trailer beam if necessary.

Secure the Axle Module or mounting plate (if necessary) to the trailer frame using provided mounting hardware. See the image below for reference on placement under the trailer.

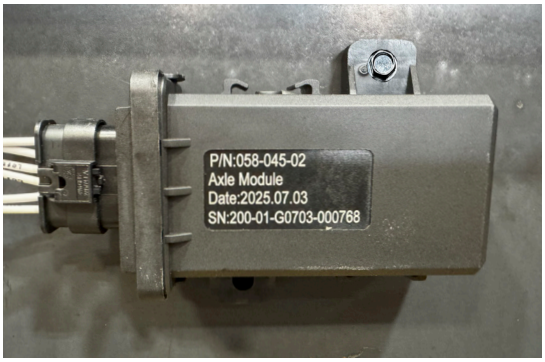


WIRING:

Using the previous harness (Harness, Telematics [058-048-30]), connect the remaining end to the second harness (Harness, TPMS Axle Module [058-049-22]).

Next, connect the Harness, Telematics (058-048-30) to the Axle Module.

4.6 - DUAL WHEEL AXLE MODULE



INSTALLATION:

Choose a location behind the trailer's axles where the Dual Wheel Axle Module can effectively communicate with the Antennas required.

The Dual Wheel Axle Module and tires require a clear line of sight between them for dual wheel axles.

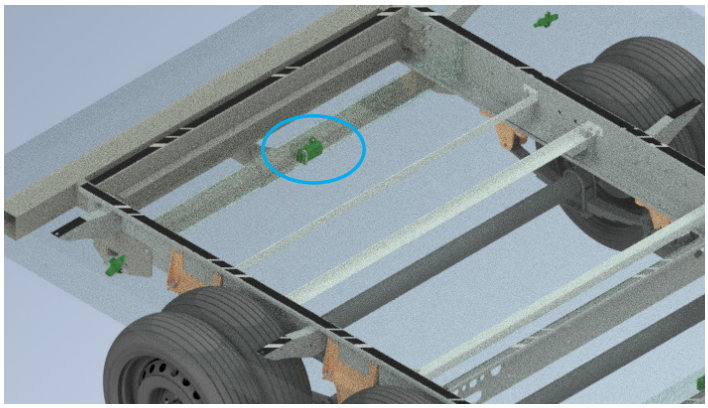
The ideal location for the Dual Wheel Axle Module is on a trailer support beam near the midline, toward the back end of the trailer.

CAUTION

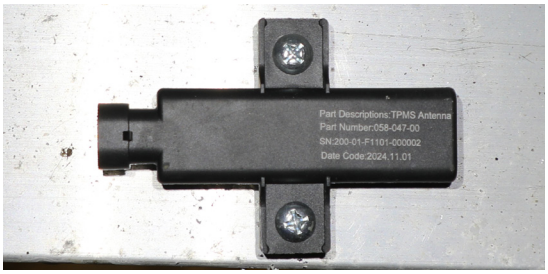
DO NOT MOUNT THE DUAL WHEEL AXLE MODULE TO ANY OF THE TRAILER AXLES.

BEFORE INSTALL: If the Dual Wheel Axle Module does not fit on the trailer beam, a backing plate may be needed. Install the module onto the backing plate before attaching it to the trailer beam.

Secure the Dual Wheel Axle Module or backing plate (if necessary) to the trailer frame using provided mounting hardware. See the image below for reference on placement under the trailer.



4.7 - ANTENNAS FOR TANDEM AXLE TRAILERS



INSTALLATION:

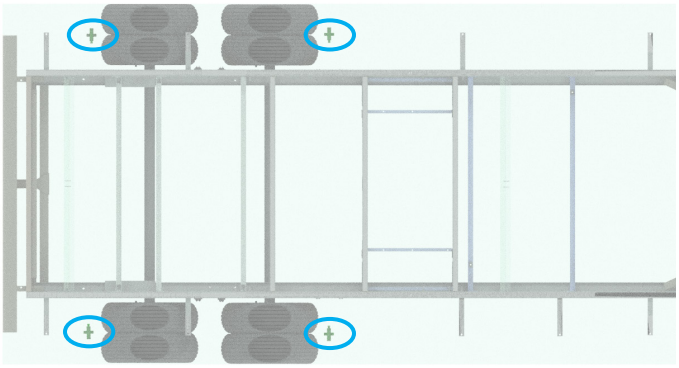
Mount each of the 4 Antennas on the underside of the trailer decking, near each set of tires. It is recommened to install each Antenna with the connector facing away from the tires for optimal signal reception and to avoid routing wires through the wheel well.

NOTE: It is acceptable to mount the antennas with the front side (side with text) facing towards the ground. The connection point and opposite side must still be facing towards the tires for signal strength.

The mounting distance between the tires, wheels, and each Antenna is critical for proper system functionality. It is also important the Antennas are mounted near each set of tires. Please refer to the following image for recommend mounting placement on the underside of the trailer decking.

The Antennas should be mounted using provided mounting hardware, including 1/2 inch spacers (005-653-00), to reduce surface contact between the Antennas and trailer components.

See image below for placement reference.



WIRING:

Use the Harness, Dual Wheel (058-049-22) to connect the Axle Module, Dual Wheel Axle Module, and Antennas together.

See the image above for reference on placement on the trailer.

See Figure 4 (on page 12) for connection point references.

4.8 - ANTENNAS FOR TRIPLE AXLE TRAILERS

INSTALLATION:

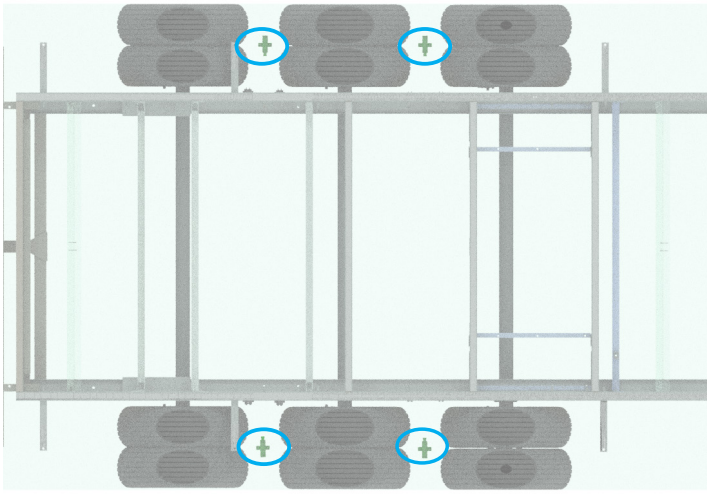
The ideal mounting location for each of the 4 Antennas is on the underside of the trailer decking, between each set of tires. It is recommened to install each Antenna with the connector facing inwards, towards the center tires for optimal signal reception.

If not possible to mount each Antenna between the tires, align one Antenna with the connection point facing away from the front set of tires, and the second Antenna with the connection point facing away from the rear set of tires. Repeat this on both the left and right sides of the trailer.

It is critical the Antennas are mounted near each set of tires. Please refer to the following image for recommend mounting placement on the underside of the trailer decking.

The Antennas should be mounted using provided mounting hardware, including 1/2 inch spacers (005-653-00), to reduce surface contact between the Antennas and trailer components.

See image below for placment reference.



WIRING:

Use the Harness, Dual Wheel (058-049-22) to connect the Axle Module, Dual Wheel Axle Module, and Antennas together.

See the image above for reference on placement on the trailer. See Figure 4 (on page 12) for connection point references.

SECTION 5 - SYSTEM SETUP

5.1 - POWER SYSTEM ON

Ensure all modules are correctly installed and connected with the appropriate harnesses. Then, press the 'Press to Wake' button to activate the system and exit factory mode. Confirm that the DEX-102 Telematics Device is powered on, indicated by the illuminated 'Awake' LED.

NOTE: It may take 3-5 minutes for the system to become active and connect to the DEX360 App.

NOTE: If the 'Awake' status light is not illuminated, please re-check the system:

- Ensure all harness and component connections are secure.
- Verify the system is connected to a charged 12V power source.
- Restart from Section 4.1 and confirm all connections and components are installed according to the installation manual.

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