



# LogicBlue LevelMatePro Wireless Vehicle Leveling System User Manual

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## LogicBlue LevelMatePro Wireless Vehicle Leveling System



### Important Information about your LevelMatePRO

The LevelMatePRO has an on/off switch that controls power from the battery to the system. When the switch is in the off position the battery is completely disconnected from the system and no power will be drawn from the battery. Turning the unit completely off using the switch is recommended when driving for long distances or when the vehicle is in storage. When the switch is in the on position the LevelMatePRO will operate in an automatic power management mode. When you first switch the unit on it will be connectable from the smartphone or tablet app and will remain that way for a configurable number of hours while the unit is not detecting motion (see Step 5 in the Setup and Installation section). After the configured number of hours with no motion detected the LevelMatePRO will enter a sleep mode to conserve the battery. Once motion is detected, the unit will wake and will be connectable again. So, when you move the vehicle and arrive at a new location you will be able to start the app and use the product to level the vehicle. If you ever try to connect to the LevelMatePRO and are unable to do so, the unit is likely in the sleep mode. You can wake the unit without motion by cycling the on/off switch to the off position and then to the on position. When you move the switch to the on position you will hear 2 beeps. This will indicate that the unit is powered on and that the battery is in good condition. If you ever move the switch from the off position to the on position and don't hear 2 beeps this will indicate that the battery needs to be replaced. The LevelMatePRO app now has a setting that allows the 'Wake on Motion' feature to be turned off if desired. When the 'Wake on Motion' setting is off and the configured number of hours to 'Idle Time Until Sleep' is reached, the LevelMatePRO will turn itself off and will not wake when motion is detected. This allows users who do not want the unit coming on when traveling in the case where they forgot to turn the LevelMatePRO off after their last use. Please note that the 'Wake on Motion' setting is not compatible with all models of the LevelMatePRO and will be grayed out in Settings if it is not compatible with your unit.

### Limited Warranty

The warranty obligations of LogicBlue Technology ("LogicBlue") for this product are limited to the terms set forth below. What is Covered This limited warranty covers defects in the materials and workmanship in this product. What is not Covered This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by LogicBlue to make such repairs, or any other cause which does not relate directly to a defect in materials and/or

workmanship of this product. Without limiting any other exclusion herein, LogicBlue does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used. How Long this Coverage Lasts The limited warranty period for LogicBlue products is 1 year from the original date of purchase. Proof of purchase from the customer will be required for all warranty claims. Who is Covered Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product. What LogicBlue Will Do LogicBlue will, at its sole option, repair or replace any product determined to be defective with regards to materials or workmanship.

## **FCC STATEMENT**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  1. This device may not cause harmful interference.
  2. This device must accept any interference received, including interference that may cause
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the LevelMatePRO unit.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.\

## **IC Statement**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

## **Setup and Install the LevelMatePRO**

### **Go to the appropriate app store and download the app**

In your app store, search for "levelmatepro" to locate the app. Download the app on each of the devices you plan to use with the LevelMatePRO. NOTE: Android users will use the 'Back' button on the phone for navigating to the previous screen and there will be no on screen 'Back' buttons for navigating to the previous screen as there are in the iOS version of the app. This is mentioned because the screenshots used in this manual were taken from the

iOS app and show 'Back' buttons that Android users will not see in their version of the app.

### **Slide the on/off switch to the ON position**

You will hear 2 beeps confirming that the unit is on. If you don't hear 2 beeps then slide the on/off switch in the opposite direction. If you still don't hear 2 beeps after trying the on/off switch in both directions then either the battery is installed upside down, the battery has an anti-discharge sticker on the bottom that needs to be removed, or the battery is dead and needs to be replaced with a new one. NOTE: You will have 10 minutes from the time you switched the LevelMatePRO on to allow new smartphones or tablets to "learn" your LevelMatePRO. If this time expires, you can restart the 10 minute "learning" window by sliding the LevelMatePRO on/off switch to the OFF and then to the ON position. If you want to add another smartphone or tablet at a later time, simply turn the on/off switch to the OFF and then to the ON position to start a new 10 minute "learning" window.

### **Start the LevelMatePRO app**

Start the LevelMatePRO app on the first phone or tablet. The app will connect to the LevelMatePRO and you will then be presented with a registration screen (figure 2). Required fields are at the top and marked with an asterisk. Once you complete at least the required fields of the form, tap on the 'Register Device' button at the bottom of the screen.

## **Begin the LevelMatePRO setup**

The LevelMatePRO app has a Setup Wizard that will guide you through the setup process. Each step in the Setup Wizard is detailed below. Completing each step will automatically advance you to the next step until the process is complete. Beginning with Step 2, each step includes a 'Back' button at the top left of the screen to allow you to return to the previous step if needed.

**Step 1)** Select your vehicle type (figure 3). If your exact vehicle type is not listed simply select the vehicle type that most closely represents your vehicle type and is of the same category with regard to towable or driveable. This is important because certain parts of the setup process will vary based on whether you selected a towable or driveable vehicle type. To aid in your selection, a graphic representation of each vehicle type is displayed at the top of the screen as each is selected. Once you have made a selection tap the 'Next' button at the bottom of the screen to continue.

**Step 2)** If you selected a towable vehicle type (travel trailer, fifth wheel or popup/hybrid) you will be presented with a screen where you will test the Bluetooth Signal Strength to insure that your selected mounting location is suitable (figure 4). Follow the steps at the top of this screen to perform the signal strength test. If the measured signal strength is acceptable you will be directed to make a permanent mount using the provided mounting screws. If the measured signal strength is too weak at the current temporary mounting location, you will be directed to perform the test again after moving the LevelMatePRO to another temporary mounting location (figure 5). Tapping on the 'Troubleshoot Signal Strength Issues' link on this screen will give you recommendations for selecting a more suitable mounting location.

**Step 3)** Make your selections for Measurement Units, Temperature Units and the Driving Side Of Road for your country (figure 6). Defaults for these options are based on the country you defined in the registration process so for most users these will already be set to the selections you will use.

**Step 4)** Enter the dimensions for the width and length of your vehicle (figure 7). Instructions indicating where to take these measurements on your selected vehicle type are below the front/back and side graphic images of the vehicle.

**Step 5)** Make your selections for Installation Orientation, Idle Time Until Sleep, Wake On Motion, Reverse Front View and Measurement Display Resolution (figure 8). Contextual help is available for some settings and can be accessed by tapping the icon. Explanations of the other settings are below. The Installation Orientation setting relates to which way the label faces after the LevelMatePRO has been mounted in its permanent location. See figure 10 for examples of installation locations and their corresponding installation orientations. The Run Continuously setting is only available for LevelMatePRO+ models that offer the option of an external power source. The Wake On Motion setting (not available on all LevelMatePRO models), when turned on, will cause the unit to wake from sleep when motion is detected. Turning this option off will cause the unit to ignore motion during sleep mode and will require that the on/off switch be cycled to wake from sleep. The Reverse Front View setting will show the back view of the vehicle on the leveling screen when enabled. This can be beneficial for both driveable and towable vehicles when using the front/side display mode on the Leveling screen. Enabling this setting will cause the driver's side information to be displayed on the left side of the phone screen and the passenger side to be displayed on the right side of the screen (reversed if Driving Side of Road setting is set to left). Disabling this setting will cause the front view of the vehicle to be shown on the Leveling screen. Note: Some settings both in the Setup Wizard and on the Settings screen will be grayed out and inaccessible. Settings that are

grayed out are not available for your particular model of the LevelMatePRO.

**Step 6)** Follow the steps on this screen to prepare your vehicle for the Set Level process (figure 9). If you are setting up your LevelMatePRO ahead of time and you are away from the vehicle it will be eventually installed in you may want to complete the Set Level step at a later time. If you would like to postpone this step you can tap the ‘Skip This Step’ link. When you are ready to complete the Set Level step you can find the ‘Set Level’ button near the bottom of the Settings screen in the LevelMatePRO app. You can also use this button to reset the level at any time in the future if necessary. Your LevelMatePRO setup is now complete and is ready for use. After tapping the ‘Finish Setup’ button you will then be taken on a tour of the app to familiarize you with its operation. You can step through the tour in either direction using the ‘Next’ and ‘Back’ buttons. Note that the tour will only be shown one time. If you would like to go back through the Setup Wizard for any reason, you can restart it by tapping the ‘Launch Setup Wizard’ button found near the bottom of the Settings screen in the LevelMatePRO app.

Registration

Register your LevelMatePRO

By registering your device, you will ensure your device is covered under warranty and help with troubleshooting and support.

First name\*

First name

Last name\*

Last name

Email\*

Email

Place of purchase\*

Place of purchase

Country\*

United States

OPTIONAL

Phone

Phone

Address 1

Address 1

Address 2

Address 2

City

City

State/Province

State/Province

Postal Code

Postal Code

Register my LevelMatePRO

figure 2


Setup Wizard

Step 1 of 5

Welcome to your new LevelMatePRO!

The Setup Wizard will now guide you through the setup process.

VEHICLE TYPE



Travel Trailer

✓

Fifth Wheel

Popup/Hybrid Camper

Class B or Class C

Class A

Next

figure 3

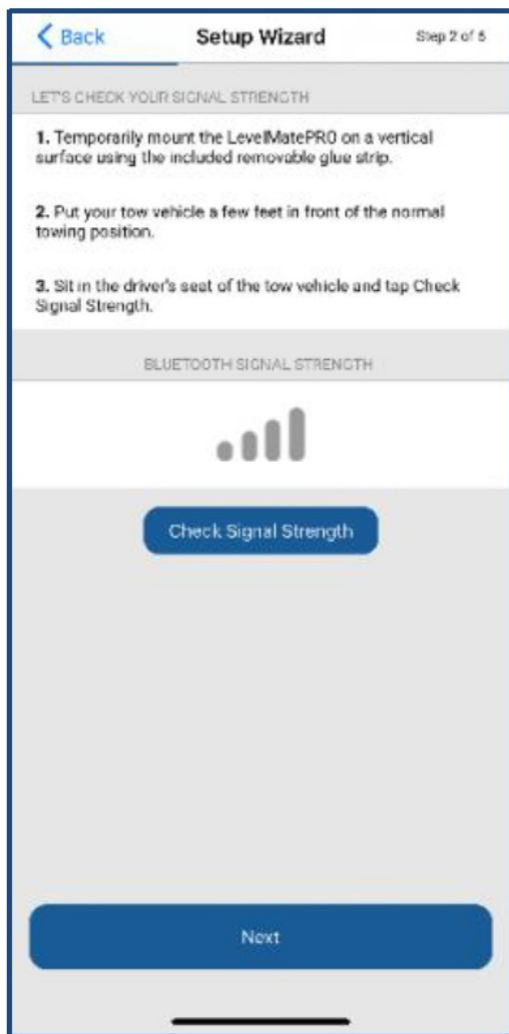


figure 4

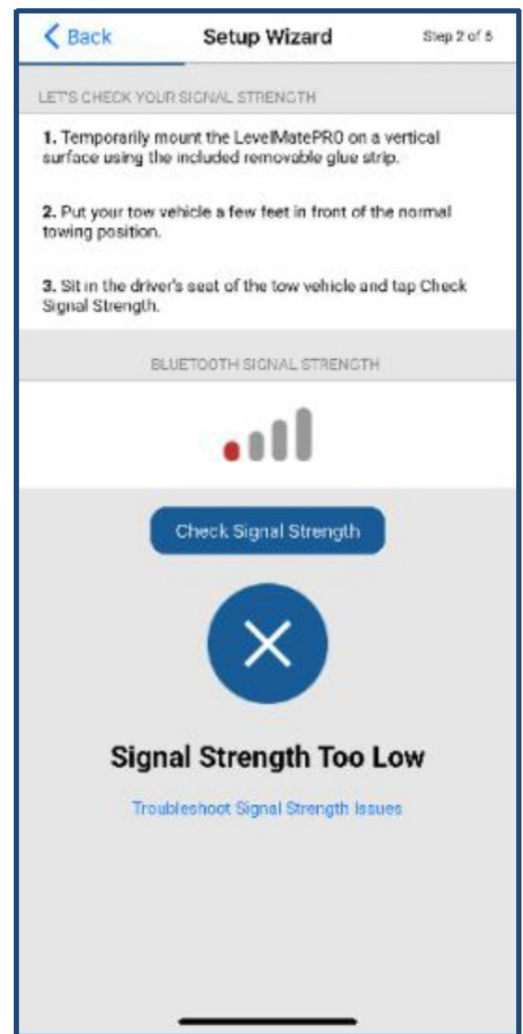


figure 5

Back

Setup Wizard

Step 3 of 5

MEASUREMENT UNITS

Inches

Centimeters

TEMPERATURE UNITS

Fahrenheit

Celcius

DRIVING SIDE OF ROAD

Left

Right

Next


figure 6

Back

Setup Wizard

Step 4 of 5


VEHICLE WIDTH



Measure from the outside to the outside of the rear tires at the widest point.

Width96

VEHICLE LENGTH



Measure from the center of the front wheel to the center of the rear wheel.

Length180

Next

figure 7

Back

Setup Wizard

Step 5 of 5

INSTALLATION ORIENTATION

Label Faces Driver's Side

Label Faces Passenger's Side

Label Faces Front

Label Faces Rear

IDLE TIME UNTIL SLEEP

Hours

Run Continuously

Wake On Motion

Reverse Front View

MEASUREMENT DISPLAY RESOLUTION

.25"

.50"

1.00"

1.25"

Next


**figure 8**

Back

Setup Wizard

Step 6 of 6

SET LEVEL



1. If your RV has slideouts and you would like to setup the LevelMatePRO to compensate for 'slide lean' then extend all of your slideouts at this time.
2. Level your RV using your traditional leveling method (i.e. bubble level, door swing, etc).
3. Once the RV is level retract all of your slideouts. This will put your RV in the slightly off level position that you will want to return to when leveling with the LevelMatePRO at a campsite.
4. Step outside your RV to insure that you aren't creating any motion during the Set Level process.
5. Tap Set Level.

Set Level

[Skip This Step](#)

**figure 9**

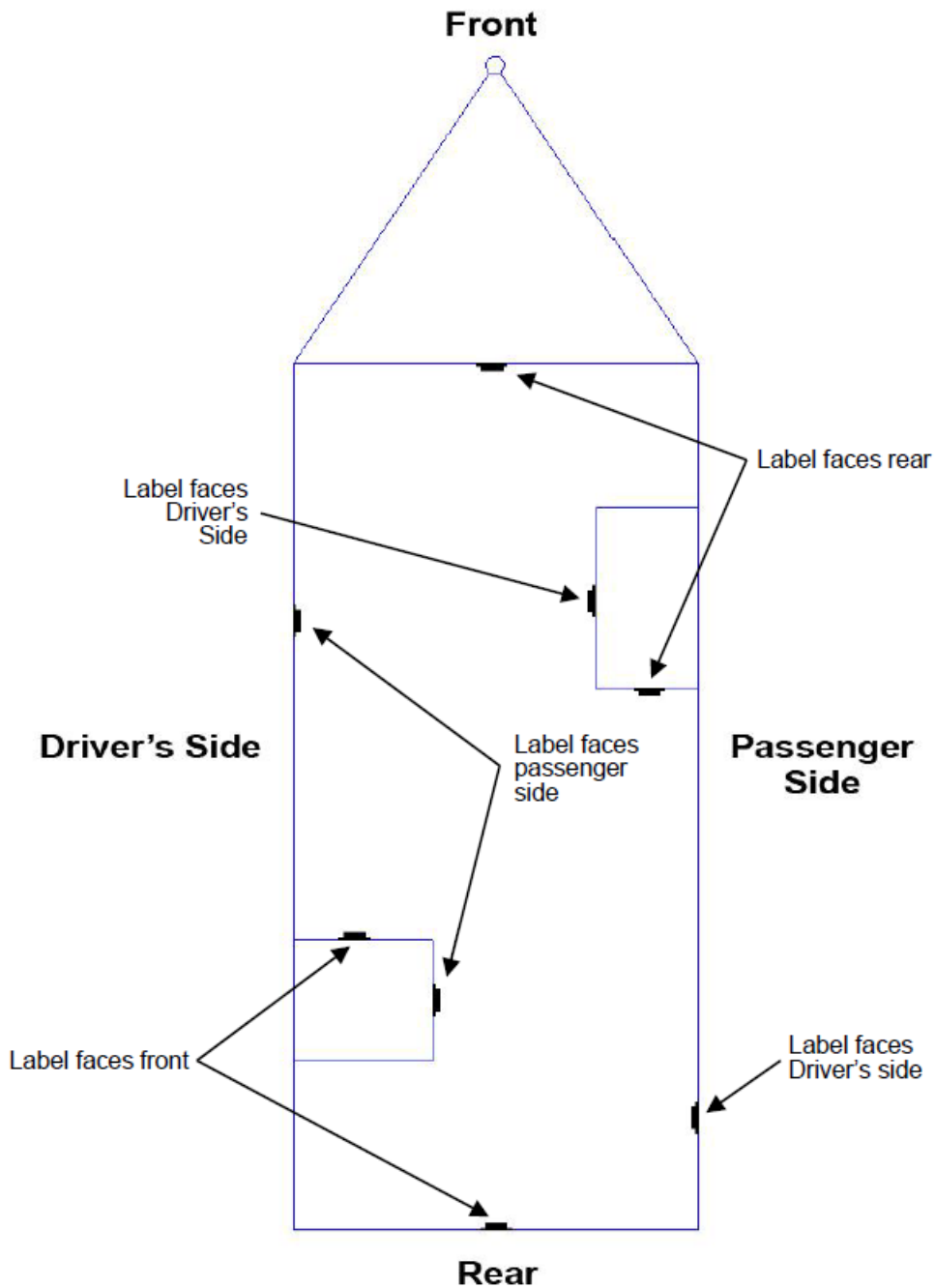


figure 10

## Using the LevelMatePRO

### Position your vehicle

Move your vehicle to the location where you would like to begin leveling.

### Connect to the LevelMatePRO

After you have completed installation and configuration of your LevelMatePRO unit and app (at the beginning of this manual), you are ready to begin using the product to level your vehicle. Using the on/off switch, turn on the LevelMatePRO (you will hear 2 beeps) and then start the LevelMatePRO app. The app will recognize your LevelMatePRO and connect to it automatically.

### The Leveling screen

Once the app connects with your unit it will display the Leveling screen. If you configured the LevelMatePRO app for a towable (travel trailer, fifth wheel or popup/hybrid) the leveling screen will show a front and side view by default (figure 11). If you configured the LevelMatePRO app for a driveable (Class B/C or Class A) the leveling screen will show a top view by default (figure 12). These default views are generally what is needed for the

configured vehicle type. If you prefer to use a different view you will find a 'Top View' switch in the upper right corner of the Leveling screen that can be used to switch between the front and side view and the top view. The app will remember the last view used when the app is closed and will show this view by default the next time you open the app. NOTE: If you are leveling a driveable vehicle, skip to step 8 if your vehicle doesn't have leveling jacks or step 9 if your vehicle does have leveling jacks.

### **Level your towable vehicle from side-to-side**

When leveling your vehicle from side-to-side you will be using the top section of the Leveling screen (figure 11). When the vehicle is not in a level position, there will be a red arrow pointing upward on one side of the trailer graphic front view (or rear view if you selected the 'Reverse Front View' option during setup). Regardless of your settings for 'Reverse Front View' or 'Driving Side of Road', the driver's side and passenger side are labeled appropriately and will indicate which side of the trailer needs to be raised to achieve a level position from side-to-side. The displayed measurement indicates how much height will be required on the side where the arrow is displayed. If you are using ramps for leveling, place the ramp(s) either in the front or rear of the tire(s) on the side indicated by the red arrow. Then move the trailer onto the ramp(s) until the measurement distance displays 0.00". If you are using leveling blocks, stack them to the height indicated by the displayed measurement and place them in the front or rear of the tire(s) on the side indicated by the red arrow. Then move your vehicle so that the tires are on top of the blocks and check the current measurement distance. If you have achieved a level position, the displayed measurement distance will be 0.00" (figure 13). If the displayed measurement distance is not 0.00", then note the measurement distance and move the vehicle tire(s) off the blocks and add or remove blocks equaling the measurement distance that was displayed when the tire(s) were on the blocks. Once again, move the vehicle tire(s) onto the blocks and check the measurement distance to ensure that the vehicle is now level from side-to-side. NOTE: The reason adding blocks for a second leveling attempt (as mentioned above) may be required would be due to soft ground that allows the blocks to sink slightly into the ground or that the location the blocks were placed was slightly different than where the initial height requirement measurement was taken. To avoid issues with the blocks being positioned at a slightly different location than where the initial height requirement measurement was taken, simply make a note of the height required at the desired parking location. Then move your vehicle a foot or two from that position so you can place the blocks at the same location where the initial height requirement measurement was taken.

### **Save your hitch position (towable vehicles only)**

If the vehicle you are leveling is a trailer, you will need to disconnect it from your tow vehicle before leveling it from front-to-back. Release your hitch from the tow vehicle and extend the jack on the trailer until the hitch is just above the ball or hitch plate (in the case of a 5th wheel hitch). At the bottom left of the Leveling screen, tap on the 'Set' button in the 'Hitch Position' section of the Leveling screen (figure 11). This will record the current position of the trailer hitch. This saved position can be used to return the hitch to the current position when you are ready to reattach the trailer to the tow vehicle.

### **Level your towable vehicle from front-to-back**

Once your vehicle is level from side-to-side you are ready to begin leveling from front-to-back. For this step you will be using the bottom section of the Leveling screen. Similar to the side-to-side leveling step, when the vehicle is not in a level position there will be a red arrow pointing up or down near the front of the trailer graphic side view (figure 11). This indicates whether the front of the vehicle needs to be lowered (arrow pointing down) or raised (arrow pointing up) to achieve a level position from front-to-back. Simply raise or lower the tongue of the trailer as indicated by the up or down arrow in the bottom section of the Leveling screen. Level position for the front-to-back will be indicated in the same manner as the side-to-side leveling process and the displayed measurement distance will be 0.00" (figure 13).

### **Recall your hitch position (towable vehicles only)**

If the vehicle you are leveling is a trailer, you can recall the hitch position you saved in step 5 to aid in returning your tongue to the position it was in when you removed it from the tow vehicle hitch. Tap on the 'Recall' button in the Hitch Position section of the Leveling screen and the Recall Hitch Position screen will be displayed (figure 15). The Recall Hitch Position screen shows a side view of the trailer, a red arrow pointing up or down, and a measurement distance similar to the Leveling screen side view. The measurement distance represents the amount of distance the tongue needs to be moved up or down (as indicated by the red arrow) to return to the

previously saved hitch position. Moving the trailer tongue in the direction indicated by the red arrow will cause the displayed measurement distance to be reduced. The tongue will be at the saved hitch position when the displayed distance measurement is 0.00" (figure 14). A Hitch Position Save Date is also displayed at the bottom of the Recall Hitch Position screen which indicates when the currently saved hitch position was saved. When you have completed the Recall Hitch Position process tap the "Return" button at the bottom of the screen to return to the Leveling screen.

#### **your driveable vehicle (without leveling jacks)**

Typically the top view will be used for leveling a driveable vehicle and is the default view (figure 12). Labels on the top view indicate front, back, driver's side and passenger side of the vehicle. At each corner of the top view of vehicle graphic are both a measurement distance and a red arrow pointing upward (only displayed when not in a level position). The measurement distance displayed at each corner is the height required for the wheel that corresponds with that corner of the vehicle. To level the vehicle, simply stack your blocks in front of or behind each wheel to the height indicated for that wheel. Once the blocks are stacked, drive onto all the stacks of blocks at the same time and the vehicle should reach a level position. Once the vehicle is on all the blocks, the measurement distance displayed for each wheel should be 0.00" (figure 16). If you still have one or more wheels displaying a non-zero distance, make note of the distance for each wheel. Drive off the blocks and adjust them up or down as needed and drive back onto the blocks. **NOTE:** The reason adding blocks for a second leveling attempt (as mentioned above) may be required would be due to soft ground that allows the blocks to sink slightly into the ground or that the location the blocks were placed was slightly different than where the initial height requirement measurement was taken. To avoid issues with the blocks being positioned at a slightly different location than where the initial height requirement measurement was taken, simply make a note of the height required at the desired parking location. Then move your vehicle a foot or two from that position so you can place the blocks at the same location where the initial height requirement measurement was taken.

#### **Level your driveable vehicle (with leveling jacks)**

Typically the top view will be used for leveling a driveable vehicle and is the default view (figure 12). Labels on the top view indicate front, back, driver's side and passenger side of the vehicle. At each corner of the top view of vehicle graphic are both a measurement distance and a red arrow pointing upward (only displayed when not in a level position). The measurement distance displayed at each corner is the height required for the wheel that corresponds with that corner of the vehicle. To level the vehicle, simply put your leveling jack system in manual mode and adjust the jacks based on the measurement distance displayed on the Leveling screen (figure 12). If your jack system moves jacks in pairs you may find it useful to use the front and side view of the Leveling screen (figure 16). You can switch to this view by toggling the Top View switch in the upper right corner of the Leveling screen to the off position. When all 4 measurement distances are displaying 0.00" then the vehicle is level (figure 13 or 14).

**NOTE:** Since you can't move a wheel downward the system determines which wheel is currently the highest and then calculates the heights required for the 3 lower wheels. This results in one wheel always having an indicated height of 0.00". It is also important to understand that if you overshoot a height this will result in the opposite wheels to then be indicated as needing to be raised. For example, prior to leveling the front wheels are both displaying 0.00" and the rear wheels are both displaying 3.50". If the blocks you use are all 1" thick and you decide to use 4 blocks under each of the rear wheels, you are raising the rear 4" instead of 3.5" or overshooting by 0.50". Since the LevelMatePRO will never indicate to lower a wheel (as it has no way to know if you are on blocks or on the ground) then both the rear wheels will now display 0.00" and both front wheels will display 0.50".

**NOTE:** As mentioned in the installation and setup portion of this manual, Android users will use the 'Back' button on the phone for navigating to the previous screen and there will be no on screen 'Back' buttons for navigating to the previous screen as there are in the iOS version of the app. This is mentioned because the screenshots used in this manual were taken from the iOS app and show 'Back' buttons that Android users will not see in their version of the app.



figure 11



figure 12



figure 13



figure 14



figure 15



figure 16

Documents / Resources

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References

- [Landing Product Home - LogicBlue Technology](#)