



AppWeigh Air Suspension Kit – User Install Guide

Thank you for purchasing the **AppWeigh “No Scale Load Scale”** Air Suspension Kit! This product is intended for **SELF-INSTALL ONLY**. This document provides the step-by-step instructions for installing, configuring and calibrating the **AppWeigh Air Suspension Kit** system. Additional installation details can be found on our website at www.appweigh.com.au/support/sensor-faq

This one-time installation process consists of three main parts as described in this document:

- 1. Install and configure the AppWeigh app and sensor on your smartphone / tablet**
 - 2. Assemble AppWeigh kit and install onto your truck and / or trailer**
 - 3. Calibrate the AppWeigh system**
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1. Install and configure the AppWeigh app and sensor on your smartphone/tablet

1.1 Install the AppWeigh app, log into your account and specify the weight unit for the app

Important: Scan the QR Codes to see a demo of how to install the AppWeigh app and login. Alternatively, follow ALL steps in Section 1.1.



[>>App install - video link<<](#)



[>>App login - video link<<](#)

1. Download and install the **AppWeigh** app from Google Play Store for Android devices or Apple App Store for Apple devices.
2. Open the AppWeigh app on your device.
 - Allow the AppWeigh app to access to your device's location if prompted (you will only be asked this the first time the app is opened).
 - Allow the AppWeigh app to turn on Bluetooth on your device if prompted - if Bluetooth is off, you will be asked to turn it on each time the app is opened
3. Register new user or log into existing user account
 - Register a new user:
Choose this option if you are installing the app for the first time. You can register a new user account




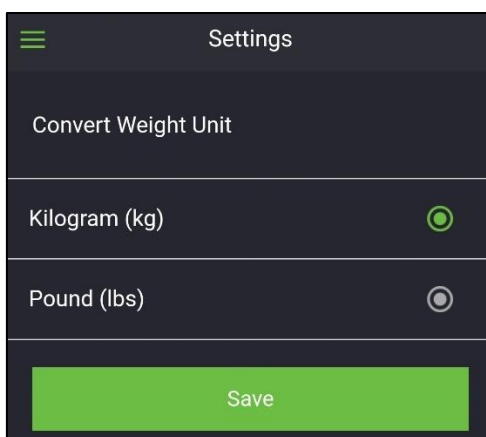
by clicking "Create New Account"; you will then be prompted for additional information. Once completed, click "Sign Up".

OR

— Login with an existing **AppWeigh** username and password:

If you already have a username and password, enter your credentials and click "Sign In".

4. Once successfully logged in, you will be presented with the AppWeigh Home screen.
5. From the main menu (), select Settings.
6. Under Convert Weight Unit, specify your unit of measure (kg vs lb). Then click Save.



Specify Convert Weight Unit

PLEASE MAKE A RECORD OF YOUR LOGIN DETAILS and PASSWORD.

LOGIN: _____

PASSWORD: _____



1.2 Create new Truck or Trailer profiles


Creating a truck or trailer profile allows you to provide details about your equipment and is required before pairing and installing the AppWeigh sensors. Once created, the truck and trailer profiles can easily be added or removed from the Home screen (see Section 1.4) giving you the ability to easily swap trucks or trailer combinations.

Important: Scan the QR Code to see a demo of how to create new truck or trailer profiles. Alternatively, follow ALL steps in Section 1.2.




[>>Create truck/trailer profile - video link<<](#)

Create new Truck

1. From the main menu (), select "My Trucks."
2. From the "My Trucks" screen, select the + sign on the top right, and populate the form with the truck details.
Note: The Axle Weight Limit values must be taken from the vehicle compliance plate (or Gross Vehicle Mass (GVM) plate) provided by the truck or trailer manufacturers.
3. Once complete, click "Done".

Create new Trailer

4. From the main menu (), select "My Trailers."
5. From the "Add Trailers" screen, select the + sign on the top right, and populate the form with the trailer details.
Note: The Axle Weight Limit values must be taken from the vehicle compliance plate (or Gross Vehicle Mass (GVM) plate) provided by the truck or trailer manufacturers.
6. Once complete, click "Done".

Important: Multiple Truck / Trailer profiles can be added to a single AppWeigh account. Therefore, please ensure that each sensor name is adequately described to avoid confusion.

1.3 Pair AppWeigh sensor to app

This section describes how to connect (or pair) the AppWeigh sensor (hardware) with the AppWeigh app (software). It is very important that you keep track of which sensor is paired to which axle group in the app. We recommend you make note of which axle group and height control valve each sensor belongs to and unique pairing code in the **Sensor Tracking** step below, and then keep this paper with its sensor in the original box until the sensor is installed on the correct axle group.




Important: Scan the QR Code to see a demo of how to pair the AppWeigh sensor to the app. Alternatively, follow ALL steps in Section 1.3

[>>Pair sensor - video link<<](#)



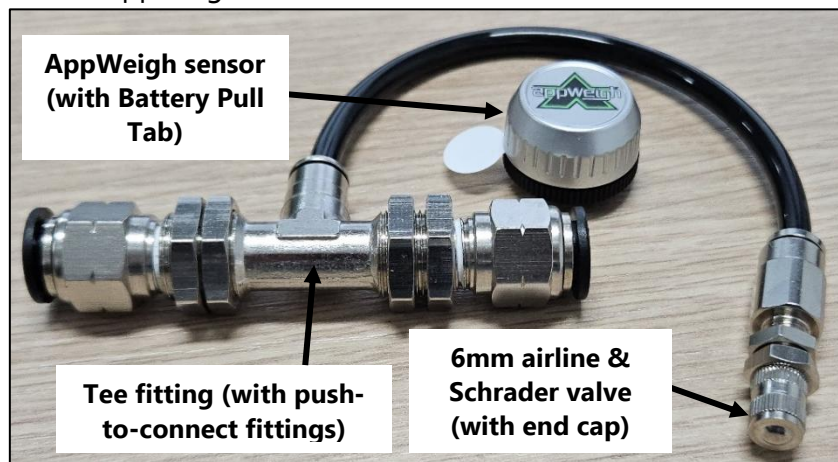
Open the "Setup Sensors" screen for the Truck or Trailer

1. From the main menu (), select "My Trucks" or "My Trailers."
2. From the list, select the Truck or Trailer to edit by clicking the pencil icon next to the name.
3. From the Edit screen scroll down and click the "Setup Sensor" button.

Pair Sensor

For accurate results, one AppWeigh sensor must be installed on each independent air suspension system axle group. For systems with dual height control valves, two sensors are required - one for each height control valve.

4. Open the box with the AppWeigh sensor kit and locate the sensor.



AppWeigh components included in a kit

5. When you are ready to pair the sensor to the app, unscrew the sensor logo cap (by holding the base of the sensor and unscrewing the top) and remove the Battery Pull Tab.

Note:

- A 2032 (3v button-type) battery is included during shipping inside the sensor. Each sensor also includes a Battery Pull Tab to preserve the battery before use. This paper tab must be removed to turn on the sensor.
- If the Battery Pull Tab has already been removed (i.e. sensor is already on) **or** you are replacing an old battery, first remove the battery from the sensor for **at least 45 seconds**. After this, reinsert the battery (+ sign facing up) into the connector sleeve of the sensor.



Removing the battery from the connector sleeve

Once the tab is removed, the sensor will enter "Pair" mode **for 2 minutes**. Ensure steps 6, 7 and 8 are done within this time window.



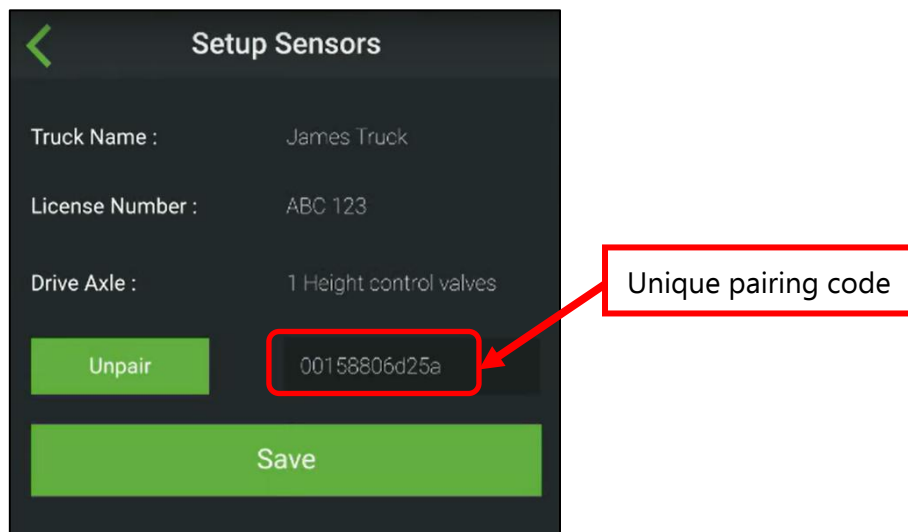
6. From the "Setup Sensors" screen, find the axle group you want to pair.
7. Hold the sensor up to the phone or tablet, and immediately click the "Pair" button. You will see a 20 seconds countdown while pairing.
8. When the sensor is successfully paired, you may be given the option to select "Normal" or "Fast" broadcast mode. Select according to your needs.

Note: In Fast mode, the update frequency from the sensor to the app is every ~2 seconds and the battery life is approximately 3 months. In Normal mode, the update frequency is ~15 seconds and the battery life is approximately 8-9 months.

Note: If you are using the latest AppWeigh sensor (pictured above) and app, you will not be asked to specify the update frequency. Instead, the app will automatically adjust and update the current weight quicker on the app (Fast mode) when the vehicle is being loaded (e.g. grain) and slower (Normal mode) when the vehicle is not being loaded.

9. If pairing was successful, you will now see the unique pairing code in the box next to the "Unpair" button. Press the "Save" button, and use the sensor tracking section below for future reference when installing the sensor. *(If the pairing was unsuccessful, try again by removing the battery, waiting 45 seconds, and then repeating the Pair Sensor steps from the beginning. For further information, please see our support page at www.appweigh.com.au/support/sensor-faq.)*
10. **Sensor Tracking** (mark the following and keep these records with sensor until installed).

Unique pairing code:	Alphanumeric code (see sample screenshot below)
Circle Axle Group for this sensor:	Steer / Drive / Trailer # 1 / 2 / 3
If Dual Valves, circle:	Driver Side / Passenger Side



Sample "Setup Sensors" screen once sensor connects to AppWeigh app

11. Repeat the Pair Sensor section for each AppWeigh sensor, making sure to keep sensors separated and using the Sensor Tracking section for each sensor to keep track of which axle group the sensor was paired with.



1.4 Add Equipment to Home screen

This section describes how to add your truck and / or trailer profile to the Home screen in the AppWeigh app.

Important:

- ✓ Before starting this section, the truck or trailer profile must be completed and the sensor(s) paired to the axle group in the AppWeigh app.
- ✓ A truck / trailer profile **MUST** be added to the Home screen for it to display the live readings.
- ✓ Only 1 truck (up to 2 sensors) can be added to a user's Home screen (per device) at a time.
- ✓ Up to 6 sensors on the trailer combination can be added to a user's Home screen (per device) at a time.



Example AB Triple combination (truck with single leveling valve) showing that 6 sensors are required for this combination and all can be added to Home screen



Important: Scan the QR Code to see a demo of how to add a truck / trailer to the Home Screen. Alternatively, follow ALL steps in Section 1.4.

[>>Add equipment to Home screen - video link<<](#)

1. Add Truck to Home screen
 - From the Home screen, click the "Add Truck" button.
 - From the "Select Truck" screen, select your Truck and click "Submit."
 - The Home screen will show the selected truck.
2. Add Trailer to Home screen
 - From the Home screen, click the "Add Trailer" button.
 - From the "Select Trailer" screen, select your Trailer and click "Submit."
 - The Home screen will show the selected trailer.
 - Repeat steps above for multi trailer combinations.

The installation and configuration of the AppWeigh app and linking of the sensor(s) to the app is now complete – you are ready to physically install the sensor(s).



2. Assemble AppWeigh kit and install onto your truck and / or trailer

This section describes the steps for physically installing the sensor and fittings onto the air suspension system.

Important:

- ✓ Before starting this section, the Truck or Trailer profile must be created and configured, and the sensor(s) paired to the axle group(s) in the AppWeigh app (refer to Section 1)

Important: Scan the QR Code to see a demo of how to physically install a sensor to the truck / trailer. Alternatively, follow ALL steps in Section 2.



[>>Physically install sensor - video link<<](#)

1. Use the appropriate spanner and apply sufficient positive pressure to tighten the push-to-connect fittings onto the Tee fitting. The push-to-connect fittings are intentionally left loose when delivered to the customer.
2. Attach the sensor to the end of the Schrader valve using positive pressure by hand-tightening (protective end cap must first be removed). Do not over-tighten the sensor onto the valve. Also, tighten the lock nut against the sensor to secure it to the valve.



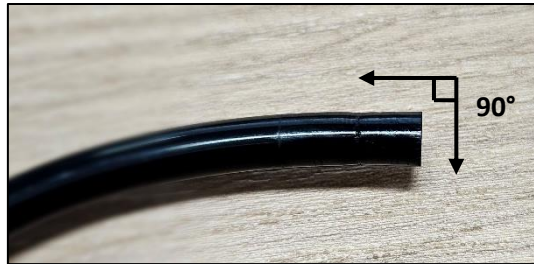
Newly paired sensor connected to Tee fitting. The AppWeigh kit is now ready to be installed on the truck / trailer

3. Apply brakes and chock the wheels.
4. Dump the air pressure from the air suspension system where the sensor will be installed.
5. Identify the axle group where the sensor will be installed and confirm you have the correct sensor that was paired to that axle group in the previous "Pair Sensor" section.
6. Find a location along the airline to install the push-to-connect Tee fitting. Choose any location in the air line that feeds the airbags but it **must be downstream** of the truck / trailers **leveling valve**.
7. **BEFORE CUTTING THE AIRLINE, CONFIRM THE TEE FITTING IS THE CORRECT SIZE.** The kit comes

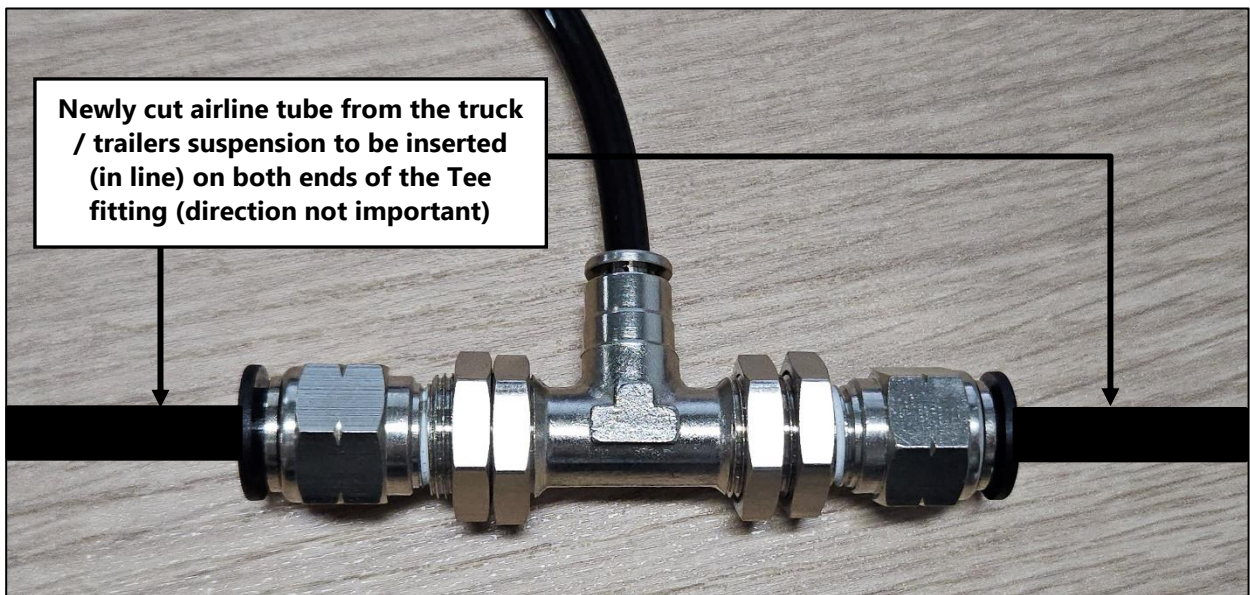


with the specific fitting size selected at time of order. These are either 6mm, 8mm, 10mm, 12mm, 1/4", 3/8", or 1/2".

8. After confirming that you have the proper Tee fitting, cut the truck / trailers airline where you intend to insert the Tee fitting. To prevent air leakage, it is important the cut is at **90 degrees** (using a tube cutter) to ensure a tight connection.



9. Clean the ends of the cut airline to remove any dirt or grease.
10. Install Tee fitting by pushing the cut ends of the air line into the ends of the Tee fitting, apply a good amount of pressure to ensure the airline ends go in as far as they can.



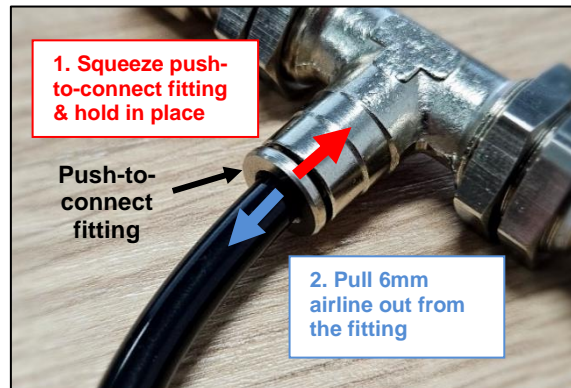
Example photo of the AppWeigh kit installed in line on the truck / trailer air suspension line

11. Start vehicle and let the height control valve(s) charge air system to operating pressure/height.
12. Check for air leaks! It is important that there are no air leaks in the air suspension system for the AppWeigh system to work properly.
13. Complete these steps for each AppWeigh sensor.
14. After installing all AppWeigh sensors, proceed to calibration step.

Important: Depending on the distance of the AppWeigh sensor to your mobile device (in cabin) and possible signal disturbances to the Bluetooth signal, you **might** need to install the sensor closer to the cabin by adding extra 6mm air tube between the Tee fitting and the AppWeigh sensor. Install the sensor on the side or the



nose of equipment where it can be seen by the user (installing the sensor in-line within the suspension can limit the signal and reduce the broadcast range).



Removing the 6mm airline tube from the Tee fitting to replace with a longer 6mm tube (only required if the sensor must be mounted closer to the driver's cabin)

3. Calibrate the AppWeigh system

*** The calibration process involves entering both empty (unladen) and loaded (laden) weights into the AppWeigh app. **ALL** weights entered into the AppWeigh app during **calibration** **MUST** be the actual measured weight of the axle group as obtained from a certified weight scale / weighbridge and **NOT** the weights on the vehicle compliance plate (or GVM plate) provided by the truck or trailer manufacturer. For trucks, an unloaded / unladen weight must include full fuel tanks and the driver sitting in the cabin (in other words, the only weight missing is the cargo load) ***

Important: The previous sections must have been **completed before** starting this section including:

- ✓ All truck and / or trailer profiles need to be created in the AppWeigh app,
- ✓ All AppWeigh sensors need to be paired with an axle group in the AppWeigh app,
- ✓ The truck and/or trailers need to be added to the AppWeigh app Home screen, and
- ✓ All AppWeigh sensors installed on the correct axle group airline.



Important: Scan the QR Code to see a demo of how to calibrate the sensor. Alternatively, follow ALL steps in Section 3.

[>>Calibrate sensor - video link<<](#)

Empty Load Calibration

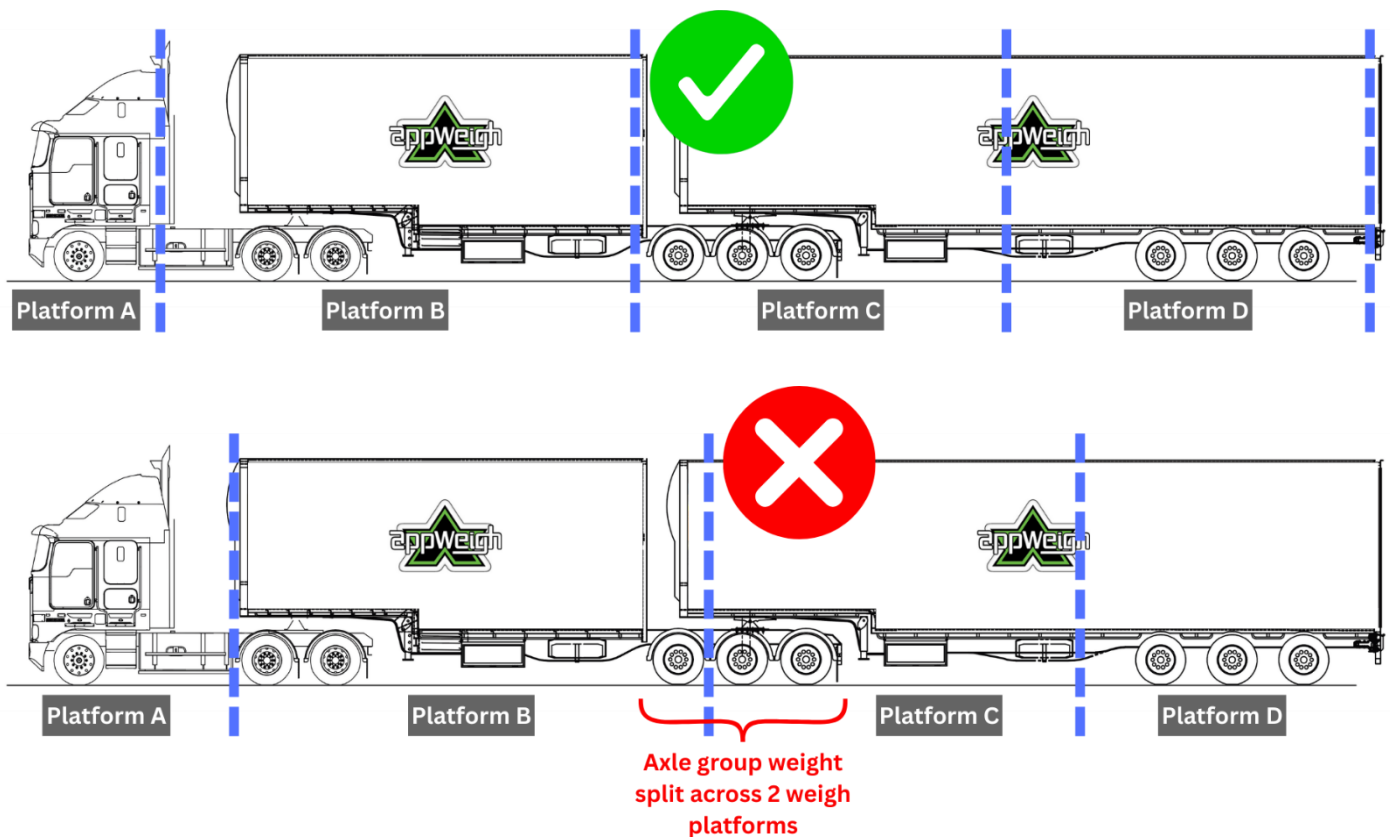
1. Ensure the full vehicle combination is unloaded / unladen. This means that the truck and trailers have been loaded with all required extra weights and normal equipment (e.g. full fuel tanks, toolboxes, etc.) EXCEPT the cargo load / payload.



2. Drive to your nearest certified weighbridge and park on the weighbridge platforms with engine running, wheels chocked, and brakes off. Let the vehicle idle for at least 3 minutes to allow height control valves and sensors to stabilise before calibrating the Empty Load.

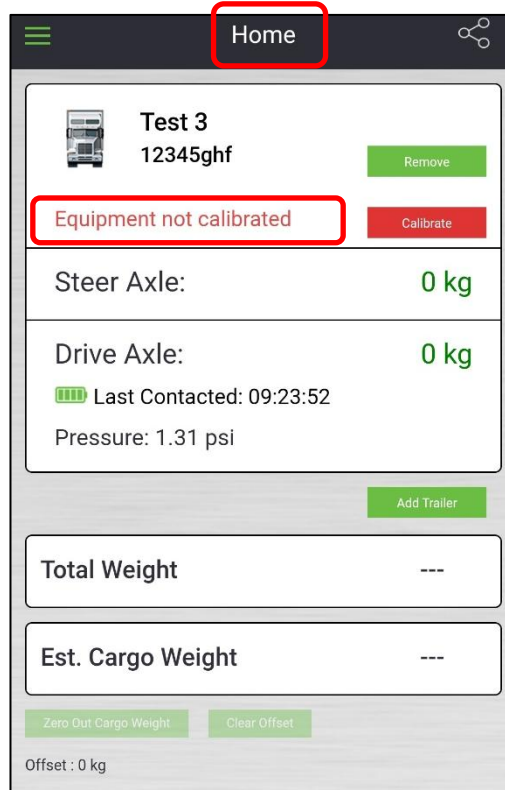
Correct load distribution on the Weighbridge

Before weighing the combination, ensure that only ONE axle group is positioned on a platform. Each combination and weighbridge service may be different so the driver must confirm that the trucks and trailers are positioned correctly on the weighbridge.



Platform dimensions above are not to scale

3. While standing within range of the installed sensors, open the AppWeigh app
4. Confirm truck and/or trailers to be calibrated have been added to the Home screen. The newly added truck / trailers status should show as "Equipment not calibrated"



Sample Home screen showing newly added truck but equipment not fully calibrated

5. From the Home screen, confirm the "Last Contacted" timestamp is current (the timestamp is updated each time the app reads the sensor and can take up to 30-60 seconds to refresh).
6. Obtain unloaded / unladen weights for each axle group from a certified scale.

Direct measurement in Tonnes:

Tare Mass: 24.72t
Date of Tare Mass: 05/05/2025 02:51 pm

Platform Weights Tare Weight

Platform A:	6.02t
Platform B:	6.88t
Platform C:	6.68t
Platform D:	5.14t

Sample weighbridge ticket – unladen weight

7. On the AppWeigh app main menu, select Calibrate -> Empty Load.
8. From the "Empty Load Calibrate" screen, enter the unloaded / unladen weight for each axle group as provided on the weighbridge ticket for all truck and trailers (select the pencil icon to edit and the checkmark to save the weight).

Notes:

- When saving each weight (using the checkmark), you MUST see a popup message (bottom of



screen) that says *"Weight saved successfully"*. If you see a popup reporting that the sensor is inactive, then the app will not save the weight correctly. If this happens, wait 20-30 seconds and try save the value again until you see the popup *"Weight saved successfully"*.

- Please ensure that the correct weights are entered for the appropriate trailer e.g. Trailer 1 weights are entered for Trailer 1.

The screenshot shows the 'Empty Load' calibration screen in the AppWeigh app. At the top, there's a menu icon and a title 'Empty Load' in a red box. Below is 'Test 3' and 'Last Calibrated By: Ryan Gould'. The 'Steer Axle' section shows a weight of 4500 kg with a green checkmark. The 'Drive Axle' section shows a weight of 8760 kg with a green checkmark, both highlighted with red boxes. Below these are 'Current psi (1)' and 'Current psi (2)' both at 12.47. At the bottom are 'Clear' and 'Done' buttons.

9. After entering the weight for all axle groups, click Done. Then, open the main menu and select Home.
10. Verify the weight displayed for each axle group on the Home screen is the same as the weights just entered.

Notes:

- Due to sensor accuracy, the weight values can fluctuate slightly from the values just entered.
- If a truck or trailer is missing either the Empty or Full Load calibration weights, that vehicle status may show as *"Equipment not calibrated"* on the home screen. This status should disappear once the full calibration process is complete (Empty and Full loads).

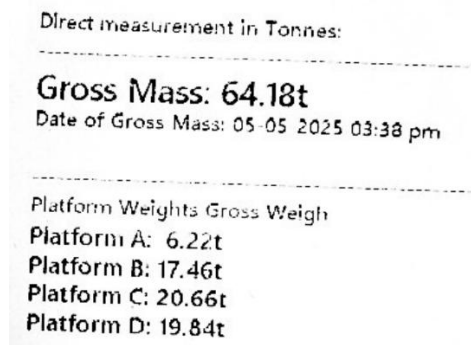
Full load Calibration

11. With the truck and trailer combination loaded with all required extra weights and normal equipment (e.g. full fuel tanks, toolboxes, etc) from the Empty Load Calibration, load the trailer(s) to their near maximum legal loads. **Note:** At this point in the process, please ignore the weights shown on the AppWeigh app for the truck and trailer(s) as the Full Load Calibration is NOT yet complete.
12. Return to the same weighbridge and park on the weighbridge platforms with engine running, wheels chocked, and brakes off. Let vehicle idle for at least 3 minutes to allow height control valves and sensors



to stabilise before calibrating the Full Load.

13. Make sure the combination is parked in the same position as done before during Empty Load Calibration to ensure load distribution on the weighbridge is consistent (see "*Correct load distribution on the Weighbridge*" on page 10)
14. While standing within range of the installed sensors, open the AppWeigh app
15. From the Home screen, confirm the "Last Contacted" timestamp is current (the timestamp is updated each time the app reads the sensor and can take up to 30-60 seconds to refresh).
16. Obtain loaded / laden weights for each axle group from a certified scale.



Sample weighbridge ticket – laden weight

17. On the AppWeigh app main menu, select Calibrate -> Full Load.
18. From the "Full Load Calibrate" screen, enter the loaded / laden weight for each axle group as provided on the weighbridge ticket for all truck and trailers (select the pencil icon to edit and then checkmark to save the weight).

Notes:

- When saving each weight (using the checkmark), you MUST see a popup message (bottom of screen) that says "*Weight saved successfully*". If you see a popup reporting that the sensor is inactive, then the app will not save the weight correctly. If this happens, wait 20-30 seconds and try save the value again until you see the popup "*Weight saved successfully*" at the bottom of the page.
- Please ensure that the correct weights are entered for the appropriate Trailer e.g. Trailer 1 weights are entered for Trailer 1.



19. After entering the weight for all axle groups, click Done.
20. Open the main menu and select Home.
21. Verify the weight displayed for each axle group on the Home screen is the same as the weights just entered. **Note:** Due to sensor accuracy, the weight values may fluctuate slightly from the values just entered.
22. The Calibration step is now complete.

Sample Home screen showing a newly added truck with fully calibrated equipment



The AppWeigh Air Suspension system should now be ready for use.

Please visit our website at www.appweigh.com.au for more information about the AppWeigh product.

4. Usage Tips:

Please take note of the following usage tips of the AppWeigh system:

- **Battery Replacement:** Depending on several factors external to the AppWeigh device or app, it is best practice to replace each AppWeigh sensor battery roughly every 6 months. The app also shows a battery indicator next to the “*Last Contacted*” details for each sensor.
- When replacing an AppWeigh sensor battery, be careful not to damage the inner components of the sensor. The 3V button battery can only slide out of the sensor sideways (gently) in one direction (as pictured in this guide). It’s best to use a non-metallic sharp tool to push the battery out.
- **Recalibrate:** AppWeigh recommends that the user recalibrate each AppWeigh sensor across both trucks and trailers at least once per year or after any modification (incl. chassis) or replacement of suspension parts.
- To recalibrate a truck or trailer, the user should not need to remove and/or readd the vehicle on the AppWeigh app. The user can just repeat the Calibration procedure (Section 3) as shown in this guide and edit (and save) the new Empty Load and Full Load weights.
- Be aware that depending on the type of change (edit) made to the configuration of a truck or trailer profile on the AppWeigh app, you may need to re-pair the sensor and recalibrate the truck or trailer.
- **All devices log out and log in:** Once a user modifies a truck or trailer settings (configuration) or recalibrates a vehicle, it’s important that ALL other logged in devices log out of the AppWeigh app and log back into the profile account to see these updates. Additionally, once logged in again, please wait until the system resyncs the updated data onto your device and notifies you of this via a popup message.

Disclaimer: It remains solely the responsibility of the operator to ensure that the AppWeigh system is maintained, operated and calibrated correctly. AppWeigh will not be held liable for any inaccuracies resulting from installation, calibration, or data entry, which may lead to negative implications.

This weight scale system is intended to provide an indicative weight, and is not suitable to be used for any commercial sales applications or as a certified weighing device as outlined in the National Measurements Act.