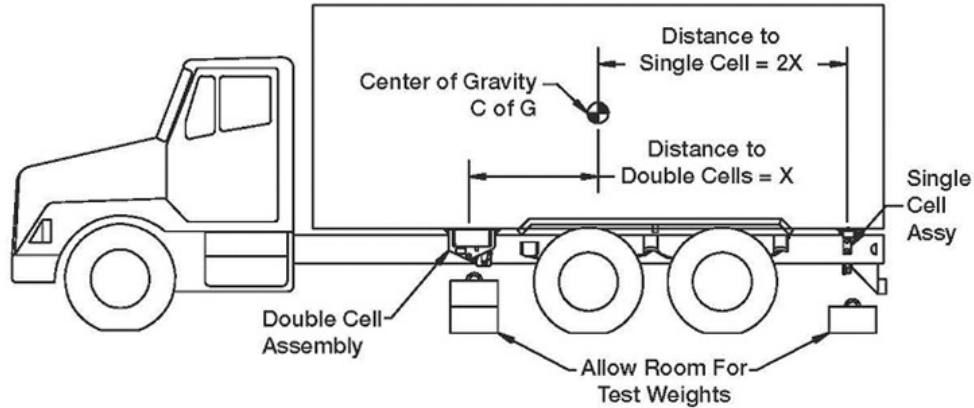


# Calibration Techniques

There are several techniques for calibrating TradeRoute scales, depending primarily on the type of body the scale module is mounted to. The process of calibrating TradeRoute scales with test weights is generally simple for open-top bodies, box vans, dump bodies and flatbeds; however, the process can be more complex for tank bodies.

## Calibration Methods for the Scale Modules

Existing 1" diameter holes at the bottom of each scale module allow for chain-hook attachments and spreader bars. This leaves very little vertical space for lifting test weights.



### Use of a Spreader Bar



## Overhead Platform Method

The designing engineer can provide test weight platforms for the top of a tank body; however, this technique does not allow for corner testing should local regulations require this.



## Drop Chassis with Ratchets

The designing engineer can also provide a drop-down chassis that can lift test weights at each scale corner when used with ratchets.



## Open-Top Bodies

Positioning test weights on open-top bodies and flat decks is simple using a boom crane as shown below.



## Over-Strapping Method

Some tank applications are best calibrated using test weights hung from heavy strapping material. In these cases, it is critically important that straps be placed along the vertical seams of the tank where they can be supported by the seam.



**DO NOT** place straps or other load bearing supports on tanks without first ensuring that there is not a risk of damage to the tank structure.

## Shallow Pit Method

Using a shallow pit to contain test weights and a heavy grating over the pit to allow for truck axles loads, it is possible to suspend test weights from the scale to achieve scale calibration. This technique is reliable and safe. It is a permanent solution for trucks that must be re-tested every year.

## Calibrating with Load and a Truck Scale

Check first with local authorities to make sure this technique is allowed. Using a truck scale to calibrate a TradeRoute is a simple, fast and safe method for completing a TradeRoute calibration.



## Substitution Method

Check first with local Weights and Measures authorities on substitution acceptance for onboard scale calibration. In some areas, it is acceptable to use a substitution method involving both test weights and product load to calibrate a TradeRoute onboard scale. Contact Rice Lake Weighing Systems technical support for more information.



*Rice Lake Weighing Systems does not accept liability for any damages resulting from any technique used for the calibration of TradeRoute scales. Suggestions in this publication are for general consideration only. It is the responsibility of the user to ensure the equipment being calibrated can withstand these procedures.*



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