

# For any steering or drive suspension with auxiliary lift axle

# SIM

SUSPENSION INTELLIGENT MANAGEMENT

## It's a balancing act!

SIM control is the only programable system on the market that dynamically equalizes the load on any suspension. The SIM can manage up to three axles independently.



## OPTIMAL LOAD CONTROL ON TANDEM AND TRIDEM SUSPENSIONS

**SIM control is the perfect tool to convert an ordinary auxiliary suspension into a high performant suspension on 6X4 or 8X4 straight body trucks.**

CLERAL's SIM is an onboard weighing system in addition to a powerful embedded computerized load equalizer. It assesses the weight of each axle and then divides it equally between them by controlling the air pressure of the pneumatic auxiliary axle. And all of this is done in real time, even while driving. Simple logic suggests that this can only improve ride comfort and facilitate braking.

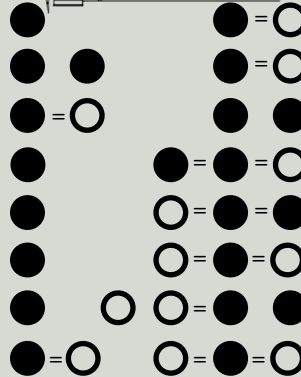
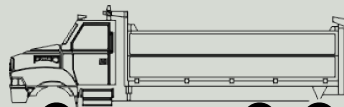
The auxiliary lift axle is fully managed by the SIM control which will raise or lower the pressure of the axle in accordance to the legal load limits. The operator does not need to worry about handling the axle to avoid axle overloads.

In difficult terrain, the Override function reduces the pressure to the auxiliary lift axle allowing for better traction.

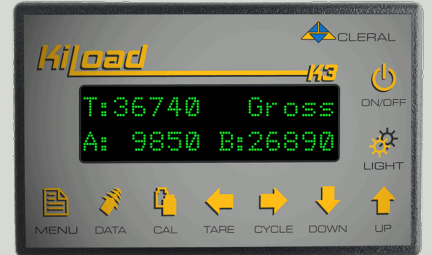
An available SIM option will automatically raise the auxiliary lift axle when in reverse. It will then consider the weight and lower the lift axle when the vehicle reaches a target forward speed.

**Imagine,** In addition to optimal safety with the intelligent SIM, you have the weight, per axle and total, of your load.

SIM can be installed on any tandem, tridem, or other drive or steering auxiliary suspension.



- Auxiliary axle
- = Load distribution
- Primary axle



### ADVANTAGES:

- ✓ Load distribution
- ✓ Weight display
- ✓ Automation of the axle
- ✓ Improve road handling
- ✓ More efficient braking
- ✓ - Reduce tire wear
- ✓ - Maneuverability in difficult terrain
- ✓ - Load optimization
- ✓ - No manual intervention
- ✓ - Stress reduction
- ✓ Control up 3 auxiliary ailes

### SPIF Compliant

SIM meets Ontario's SPIF regulation 413/05.