VOPS

M350S user & quick setup guide
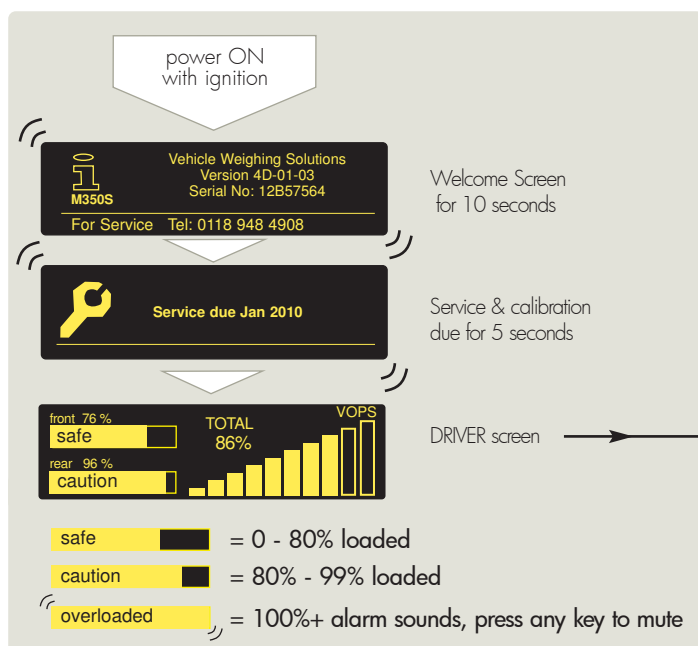
VEHICLE WEIGHING SOLUTIONS

Firmware version 01.06

The **M350S-VOPS** overload protection system is simple to operate and gives the driver front, rear axle and total load information where and when it's needed and incorporates a clear easy-to-read OLED display. The VOPS system has been installed and calibtrated by VWS engineers. Alarm setpoints have been set for the permitted axle and total permitted weight limits for the vehicle it is fitted to.

POWER AND OPERATE

The M350S indicator does not have a power button, it is permanently powered through the ignition. Turn ignition on and the software version and serial number appears in the 10 second welcome screen, a 5 second service screen flashes before the vehicle's axles and gross (total) weight displays.

- take weight readings when the vehicle is static and on level ground.

- alarm resets when weight goes below 80%.

- on light commercial vehilces, front axles have a lower load capacity than the rear axle.

- when loading, adjust the load position forward or backward to prevent axle overload.

- solid yellow bar shows load condition, percentage number indicates how much load is on your vehicle.

power ON with ignition

Vehicle Weighing Solutions Version 4D-01-03 Serial No: 12B57564 — For Service Tel: 0118 948 4908	Welcome Screen for 10 seconds
Service due Jan 2010	Service & calibration due for 5 seconds
front 76 % safe / rear 96 % caution / TOTAL 86% VOPS	DRIVER screen

safe = 0 - 80% loaded

caution = 80% - 99% loaded

overloaded = 100%+ alarm sounds, press any key to mute

Press (ok) to change between % and kg's

Note

GROSS or GVW (gross vehicle weight) is the total truck weight (NET + TARE)

NET 'net load' means the payload weight in the truck body

LOAD means part load collected or delivered, press PRINT to print and zero the load, weight collected is stored as an accumulation to NET

SPAN where used, means the NET weight used to calibrate the weigher

TARE weight means the weight of the empty vehicle

ALARM where fitted, an alarm sounder flashing beacon will activate when alarm setpoint is reached

---
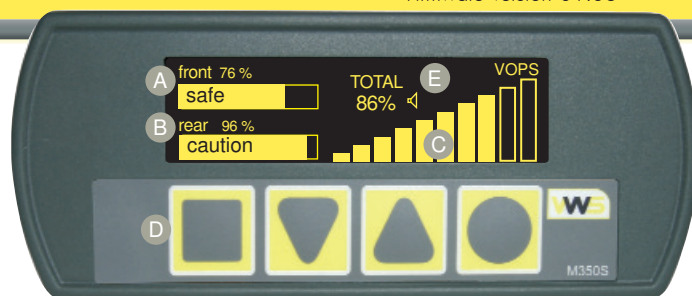
Press ⬤ to access **MENU** screen

A FRONT axle load - shows percentage loaded

B REAR axle load - shows percentage loaded, 10 % per bar

C TOTAL - shows percentage of total vehicle weight

D Keypad used by the engineer to set up the system
   press any key to mute alarm

E Speaker illuminated = Alarm is enabled

F Service reminder, appears feint when service is due

F OK key - enters data

G Down arrow key - scrolls down menu

H Up arrow key - scrolls up menu

I Back Up key - goes back a step

Display — Changes OLED contrast to high, medium or low. Also shows time and date

Diagnostics — Engineers screen. Shows two channel weights and input signals

Alarms — Alarm setpoints - PIN code required To mute Alarm - press any key

Options — Switches GROSS on & off. Changes count-by to 1, 10, 20, 50, 50, 100, 200 kg increments

Configuration — To select transducer type

Calibration — Weighing system calibration settings

System — Accesses password set and resets. Note. for PUK (PIN unlock code) contact service who will take you through your PIN retrieval

need more help? call us on
0161 643 0202
we are happy to help

Vehicle Weighing Solutions Ltd
Unit 5, Southview Park, Marsack Street,
Caversham, Reading RG4 5AF

T: 0118 948 4908
F: 0118 946 1862
www.vwsltd.co.uk

Vehicle Weighing Solutions Ltd
Hyde Road, off Foxdenton Lane,
Chadderton, Oldham
M24 1QG

T: 0161 643 0202
www.vwsltd.co.uk

authored 14 August 2009 by MSB

CALIBRATION AND SET UP - follow these five steps

VWS
VEHICLE WEIGHING SOLUTIONS

STEP 1   ENTER PIN CODE PIN is needed to change calibration

1.1 In DRIVER screen press ⬤ to enter MENU screen

1.2 In MENU use ⬇⬆ keys to select SYSTEM press [ok]

1.3 In Sysem Press ⬇ key to select PIN:Press [ok] (defaults is '0350' when new)

1.4 Press ⬇⬆ keys to number. Press ◀◀ to move cursor left

1.5 When PIN is entered press ↵ to enter code

1.6 Press [ok] to accept PIN

1.7 Press ↵ to back-up to MENU and continue steps below
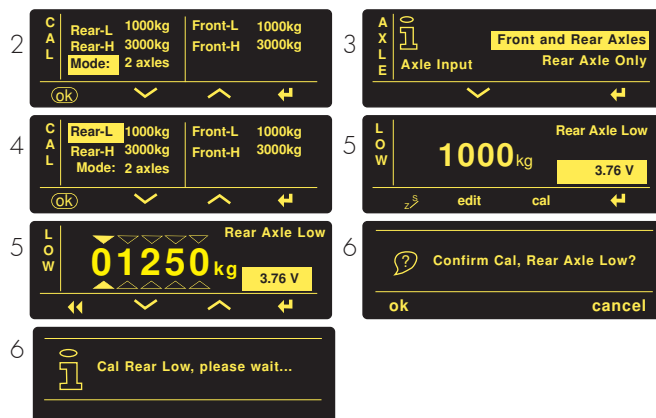
Note. PIN can be reset to a new code of your choice, select Reset in system
If PIN is lost call Service for the PUK (PIN unlock code)

2 | MENU: Display / Diagnostics / Alarms / Options — Configuration / Calibration / System — net — [ok] ⬇ ⬆ ↵

3 | SYS: Reset: Pin: new — [ok] ⬇ ⬆ ↵

4 | PIN: Enter PIN code — 0000 — ◀◀ ⬇ ⬆ ↵

5 | PIN: Enter PIN code — 0350 — ◀◀ ⬇ ⬆ ↵

6 | ? Accept new PIN '0350' — ok   cancel

7 | i PIN code changed
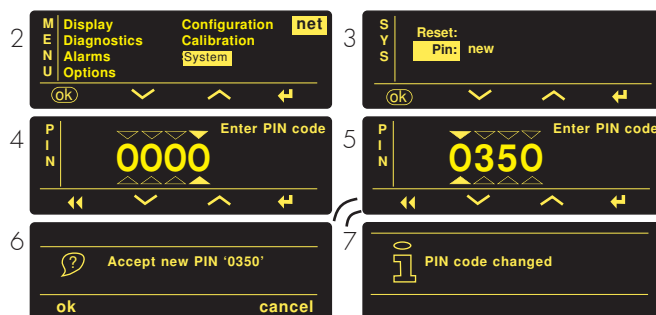
STEP 2   CALIBRATION Rear Low
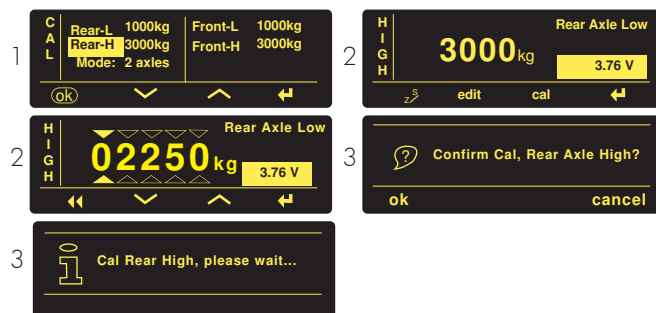Each axle (front & rear) requires a calibration point Low and High. Use weigh pads or an axle weigh platform to measure accurate loaded and tare (unloaded) front and rear axle weights.

2.1 In Menu select Calibration, Press [ok]

2.2 Press ⬇ to scroll down to Mode, press [ok] to select axle configuration

2.3 Select **Front and Rear Axle**s or **Rear Axle Only** Press ↵

2.4 In CAL menu select **Rear-L** press [ok]

2.5 Press [edit] and edit **Rear Axle Low** (tare) weight, press ↵ when done

2.6 Press [cal] to store, then press [ok] to confirm.

2 | CAL: Rear-L 1000kg / Rear-H 3000kg / **Mode: 2 axles** — Front-L 1000kg / Front-H 3000kg — [ok] ⬇ ⬆ ↵

3 | AXLE: Axle Input — **Front and Rear Axles** / Rear Axle Only — ⬇

4 | CAL: **Rear-L 1000kg** / Rear-H 3000kg / Mode: 2 axles — Front-L 1000kg / Front-H 3000kg — [ok] ⬇ ⬆ ↵

5 | LOW: Rear Axle Low — 1000 kg — 3.76 V — z§ edit cal ↵

5 | LOW: Rear Axle Low — 01250 kg — 3.76 V — ◀◀ ⬇ ⬆ ↵

6 | ? Confirm Cal, Rear Low? — ok   cancel

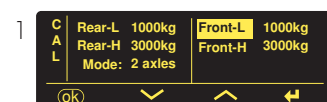**6** | i Cal Rear Low, please wait...

STEP 3   CALIBRATION Rear High

3.1 In CAL menu select **Rear-H** press [ok]

3.2 Press [edit] and edit **Rear Axle High** (tare) weight, press ↵ when done

3.3 Press [cal] to store, then press [ok] to confirm.

1 | CAL: Rear-L 1000kg / **Rear-H 3000kg** / Mode: 2 axles — Front-L 1000kg / Front-H 3000kg — [ok] ⬇ ⬆ ↵

2 | HIGH: Rear Axle Low — 3000 kg — 3.76 V — z§ edit cal ↵

2 | HIGH: Rear Axle Low — 02250 kg — 3.76 V — ◀◀ ⬇ ⬆ ↵

3 | ? Confirm Cal, Rear Axle High? — ok   cancel

3 | i Cal Rear High, please wait...

STEP 4   CALIBRATION Front Low and High

4.1 In CAL Menu select **Front-L** and repeat steps 2.4 to 3.3.

1 | CAL: Rear-L 1000kg / Rear-H 3000kg / Mode: 2 axles — **Front-L 1000kg** / Front-H 3000kg — [ok] ⬇ ⬆ ↵

REVERSE CALIBRATION
The M350S VOPS system will calibrate just as easily from High to Low

STEP 5   ALARM SETPOINTS,
alarm will activate when maximum weight is reached.

5.1 Enter PIN code, see 1.3 to 1.7

5.2 In MENU select Alarm [ok]

5.3 Select **Front:** and press [ok]

5.4 Press [edit] to edit front axle maximum weight

5.5 Use technique in 1.4 to 1.5 to edit. Press ↵ to return to ALARM screen

5.6 Repeat 5.4 & 5.5 to edit Rear and Total vehicle weight. Press ↵ twice to return to weighing screen

3 | ALM: **Front: 3000kg** 🔊 / Rear: 3000kg 🔊x / Total: 7500kg 🔊x — [ok] ⬇ ⬆ ↵

4 | ALM: Front Axle Alarm — 3000 kg — edit ↵

5 | ALM: Front Axle Alarm — 02250 kg — ◀◀ ⬇ ⬆ ↵