

A glovebox companion to the Rig Ready checker. **Limits** come off your compliance plate; **reality** comes off a weighbridge. Fill in your own numbers below and keep this in the van.

KNOW YOUR TERMS

- GVM** Gross Vehicle Mass. The most your loaded vehicle may weigh.
- ATM** Aggregate Trailer Mass. The most your loaded trailer may weigh, measured uncoupled.
- GCM** Gross Combination Mass. The most vehicle and trailer may weigh together. Often *less* than GVM and ATM added up.
- Tare** The empty weight, before gear, water, gas and people.
- Payload** What's left for all of that after tare. The number to watch.
- Towball / pin mass** The download on the tow point. Caravan or camper: aim near 10% of ATM. Fifth-wheeler pin: 15-25%.
- Roof load** The most your roof may carry while driving, and the limit most often exceeded.

RULES OF THUMB

- Keep towball mass near **10%** of the loaded van's weight (**15-25%** pin for a fifth-wheeler).
- GCM is usually **less** than GVM and ATM combined, so you can't always max both at once.
- Rigs go over from **many small items**, not one big one: water, gas, the toolbox, the awning.
- Roof racks and rooftop tents are the **most commonly exceeded** limit.

IF YOU'RE OVER (EASIEST FIRST)

- **Take less.** Do you really need full water for one night near town?
- **Redistribute.** Between van and vehicle, and forward of the axle.
- **Upgrade.** A licensed engineer can fit a GVM or GCM upgrade. Confirm any change at a weighbridge.

YOUR NUMBERS (WRITE YOURS IN: LIMIT FROM THE PLATE, WEIGHED AT A WEIGHBRIDGE)

MEASUREMENT	LIMIT (kg)	WEIGHED (kg)
Vehicle GVM		
Trailer ATM		
Combination GCM		
Towball / pin rating		
Tow capacity		
Roof load rating		

BEFORE YOU TRAVEL

- ☐ Weighed the loaded rig at a public weighbridge
- ☐ Checked figures against the compliance plate
- ☐ Towball / pin within target and under its rating
- ☐ Heavy items low and forward of the axle
- ☐ Re-checked after changing van or vehicle

Guidance and summary only, not professional advice. Figures are indicative and may not match your exact vehicle, build or modifications. Confirm actual weights at a public weighbridge and against your compliance plate, and seek advice from a licensed engineer or qualified specialist before relying on them.