



# **Pedders and the Fleet Forum**

October 2024

### Australian Automotive Specialists





### 1950

Pedders Suspension & Brakes was founded in 1950 by Roy Pedder in Melbourne, Australia.

### 20,000

We design, engineer and manufacture over 20,000 SKUs.

### 40

We operate in over 40 countries.

### 308,000

Our products make up over 308,000 vehicle applications within the extensive Pedders catalogue.

### OUR PILLARS

Pedders operates within a framework of four pillars. These pillars are the foundation of who we are as an organisation and they guide our strategy and operations at every level.



### Family

We celebrate the family culture of Pedders and promote an inclusive, supportive, and meaningful workplace environment for our people.



### Quality

We seek excellence in our products and processes to satisfy and exceed the expectations of our customers.



### Innovation

We strive for continual improvement in the way we do things and pursue new ideas and initiatives to constantly enhance our outcome.

### **Specialists**

We pursue detailed knowledge and expertise in all aspects of our work to share for the betterment of everyone within Pedders and our customers.

### **Pedders Strategic Vision**



- Financial Performance and Stability (EBITDA)

# **Pedders Strategic Vision**





Pedders have commenced a framework to positively impact four of the United Nations Sustainable Development Goals. Our focus is on the following Sustainable Development Goals:

- SDG 3 Good Health and Well-being
- SDG 8 Decent Work and Economic Growth
- SDG 9 Industry, Innovation and Infrastructure
- SDG 12 Responsible Consumption and Production











### 1. Vehicle Performance & Safety:

- Suspension
- Steering
- Brakes

### 2. Pedders Weight Matrix





# Vehicle Performance: Suspension





Over compression of Springs and Shocks due to excessive Weight leads to:

- Bottoming Out
- Reduced Shock Absorption
- Premature Suspension Failure
- Uneven Load Distribution
- Increased Body Roll



Ultimately, if vehicle weight is overloaded, we compromise the vehicles structural integrity, comfort and occupant safety.

**Solution:** Suspension Upgrade OR in extreme cases, a GVM/GVW Upgrade may be required.





# After After After Rear- 2200kg Front- 1600kg AFTERMARKET GVM/GVW- 3800kg

### What is a GVM/GVW Upgrade?

A GVM (also known as Gross Vehicle Weight) Upgrade increases the available **Payload**, and depending on vehicle, can increase axle capacity.

**Payload** is simply the difference between **Kerb weight** and **GVM/GVW** rating as set by the manufacturer. Increasing **GVM/GVW** rating increases **Payload**.

**Payload** is consumed by accessories, cargo, occupants and tow ball mass, if towing a trailer.

Example to the left is a GVM upgrade that increases **Payload** by up to 600kg, as well as axle capacity, front and rear.



GVM/GVW·	3200ka	Kerb Weight	1950kg
Kerb Weight:	1950kg	Service Body	488kg
Payload:	1250kg	Frontal Protection	62kg
		Winch	35kg
		Towing Equipment	25kg
E		Communication Equipment	15kg
ET R		Cargo Rack	31kg
	SUSPENSION & BRAKES	Safety/Work Light	12kg
		Water Tank	20kg
		Leaves 562kg Payload!	





# PAYLOAD





- Legal Maximum, Gross Combined Weight (GCW)= 5885Kgs
   Actual Total= 1208 Kgs Over 0aded

(the weight of a small car)

# Vehicle Performance: Steering



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### How does vehicle Load impact Steering?



**Reduced Responsiveness** 



**Unbalanced Steering** 



Accelerated Tyre Wear



Impact on Electronic **Steering Systems** 



# Vehicle Performance: Brakes





# Vehicle Performance: Brakes

### Other braking considerations include:

- Braking System Overload
- Heat Dissipation Issues
- Increased Wear & Tear
- Brake Fluid Overheating
- Failure of Parking Brakes





# Chain of Responsibility...



Just a thought....

### **Occupational Health and Safety:**

- We all play a part in the responsibility of a safe workplace.
- What measures do you have in place for load management?
- How does the vehicle operator understand their payload figure in their mobile workplace?

### The End Goal:

• Creating a Safe and Comfortable Work Environment.

## Pedders Weight Matrix







matrix.pedders.com.au

# Pedders Weight Matrix





# **Pedders Weight Matrix**





# The Effects of Weight - Extra



• Pedders Weight Matrix

matrix.pedders.com.au

Pedders LoadRyder

https://www.pedders.com.au/loadryder-onboard-scales

Pedders Youtube

https://www.youtube.com/user/pedderssuspension

### Link to Pedders Learning

Home | Pedders Suspension & Brakes Username is – Email Password: FleetForum24

PEDDERS		
WEIGHT MATRIX		
Welcome To The Pedders Weight Matrix™	VEHICLE SELECTOR	
Vehicle weight from accessories, cargo load and towing	Popular Makes	
represents a significant factor in the safety and performance of your vehicle. That's why Pedders has developed this world-first Weight Matrix (tm) software to assist in understanding your vehicle weight, each of your	Popular Models	
tow and load "scenarios" and most importantly the critical impacts of weight.	Year	
To use the Pedders Weight Matrix, once you have selected your common tow and load vehicle from the drop down menus here you will be guided through a wizard to	Variant	
"add weight" to your vehicle. via a series of common accessories, loads and towing items Following this process you will be presented with a 4-part report highlighting your load, your remaining capacity, your weight shift and your	Engine	
additional braking distance – all referenced to original base weights for your vehicle.	GET STARTED	
Please note that the Pedders Weight Matrix is to be used as a guide only and in some instances uses assumptions or estimates to provide information that is as accurate as possible. For exact vehicle weight, a greater level of detail,	Cant find your vehicle? Contact your local Pedders outlet or b your vehicle in for a Pedders Tow & Load Assessment. Click he	
expert advice and solutions please click here to contact your local participating Pedders Outlet to book your vehicle in for a Pedders Tow and Load Assessment.	WATCH GUIDELINE VIDEO	

- Mark Pedder Director
- Caroline Pedder Chief Brand and Culture
- Alex Gibson International Business Development Manager
- Michael Green Product Manager: Tow & Load











# **Thank You**

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