

IRONMAN 4X4 SUSPENSION SPRING SELECTION



Suspension is not something you often see when you first look at a vehicle. But, when you need it, suspension can be the single most important upgrade you make. OEM suspension is set up to support your vehicle for on-road conditions with a reasonable amount of load.



When you start to add vehicle accessories, attach a trailer or a caravan and increase your load, the way the suspension handles the load changes. Couple that with an uneven surface and off-road conditions, the OEM suspension can no longer take the additional strain.

Load Distribution



1 Load placed over the front half of the vehicle determines front spring selection.

Ensure total weight does not exceed vehicle manufacturers axle load limit.



2 Load placed over the rear half of the vehicle determines rear spring selection.

Ensure total weight does not exceed vehicle manufacturers axle load limit.



3 Front + Rear load = Total vehicle weight.

Ensure total weight does not exceed vehicle manufacturers GVM (Gross Vehicle Mass) limit.



4 Vehicle with trailer connected minus the total weight of the vehicle = Ball weight.

Ensure total weight of vehicle including Ball weight does not exceed vehicle manufacturers GVM limit.



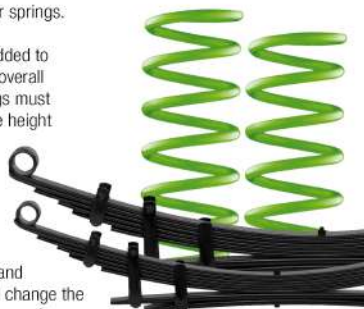
5 Total weight of vehicle + trailer weight = GCM (Gross Combination Mass).

Ensure total weight of vehicle and trailer does not exceed vehicle manufacturers GCM limit.

When your load changes, so should your springs.

Any heavy accessories or towing load added to your vehicle, changes the handling and overall safety when driving. The vehicle's springs must be matched to the load for optimum ride height and body control. Ironman 4x4 offer a range of springs to match the additional loads whether they are constant or occasional.

When you start kitting out your vehicle, take into consideration the kerb weight and how much load you are adding. This will change the level of strength spring you will need. Remember that you cannot exceed the vehicle's GVM.



Ironman 4x4 offer a range of springs to cater for any load scenario. To identify your spring type, start by finding your kerb weight and then add your load, permanent and temporary.

How much load have you added to your vehicle?



PART NUMBER SUFFIX S - Standard Height (eg. TOY063S)
Available for selected applications to provide enhanced Performance at OEM ride height.

PART NUMBER SUFFIX A - Light (eg. TOY047A)
Suitable for zero to light load applications, higher priority towards Comfort with minimal ride height increase.

PART NUMBER SUFFIX B - Medium (eg. TOY047B)
Suitable for use in zero to medium loads, ideal for moderately accessorised vehicles or occasional loads.

PART NUMBER SUFFIX C - Heavy (eg. TOY047C)
Suitable for vehicles with permanent heavy accessories, higher priority towards Load support, provides more control and firmer suspension.

PART NUMBER SUFFIX D - Extra Heavy (eg. TOY047D)
Suitable only to vehicles with permanent heavy accessories combined with heavy additional load.

PART NUMBER SUFFIX E - Super Heavy (eg. TOY047E)
Maximum support for extra heavy loads typical in commercial or mining use.