# GVM Upgrade Wheel & Tyre Specifications

## Toyota Hilux N80 (Generation 8)

The following specifications are provided for ease of reference when determining the wheel and tyre combinations that are appropriate for fitment to vehicles with Outback Armour GVM upgrades.

Increasing the wheel and tyre sizes is possible. Requirements and limitations of wheels and tires are regulated on a state and territory basis including: tyre load and speed rating, wheel load rating and track width changes.

Please refer to the state or territory transport department where the vehicle will be registered for specific regulations and the Outback Armour “GVM Dealer - Wheel & Tyre Selection” document for more information. In general, the following guidelines should be followed:

- the wheels & tyres must be rated for the maximum axle loads
- tyre speed ratings should be not less than “N” rated (140km/h)
- wheel track does not exceed that of the largest wheel track listed by more than 50mm
- tyre diameter does not exceed that of the largest tyre size listed by more than 50mm

### GVM & Axle Ratings

| **Toyota Hilux N80 (Gen8)** | Front Axle Rating | Rear Axle Rating | GVM Rating |
|---|---|---|---|
| Original GVM | 1480 kg | 1700 kg | ≤3100 kg |
| GVM Upgrade - 3550kg | 1650 kg | 2100 kg | 3550 kg |
| GVM Upgrade - 3750kg | 1650 kg | 2100 kg | 3750 kg |

### Outback Armour Standard Tyre Sizes

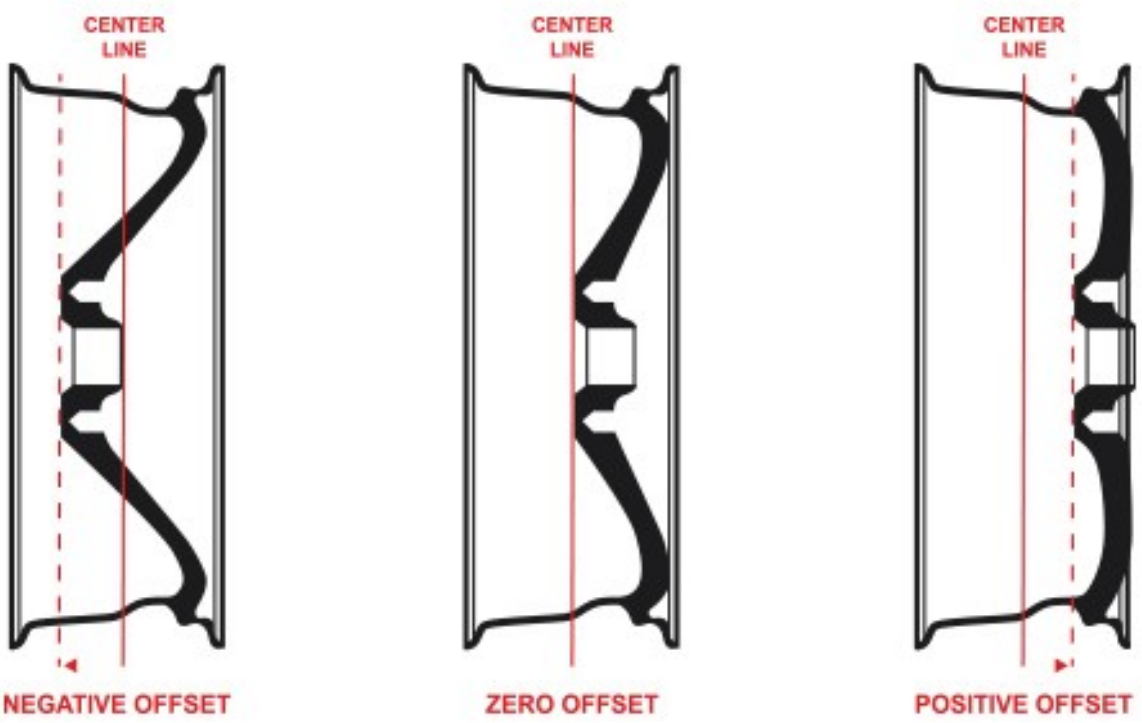
| Tyre Placard Standard Tyre Size | Minimum Load Rating | Minimum Speed Rating | Tyre Width | Tyre Diametre |
|---|---|---|---|---|
| 225/70R17 | 1060+ kg | 140+ km/h | 225 mm | 29.4 in / 747 mm |
| 265/65R17 | 1060+ kg | 140+ km/h | 265 mm | 30.6 in / 776 mm |
| 265/60R18 | 1060+ kg | 140+ km/h | 265 mm | 30.5 in / 775 mm |

### Original Wheel Sizes

| Tyre Designation | Wheel Size/Profile | Offset | Front Wheel Track | Rear Wheel Track |
|---|---|---|---|---|
| 225/70R17 | 17x6.0J | +50 mm | 1495 mm | 1510 mm |
| 265/65R17 | 17x7.5J | +30 mm | 1535 mm | 1550 mm |
| 265/60R18 | 18x7.5J | +30 mm | 1535 mm | 1550 mm |

## Wheel Offset

The following diagrams illustrate the effect of wheel offset

| | |
|---|---|
| Negative Offset | • Lower offset moves wheels outwards (away) from the vehicle<br>• The centre of the wheel is shifted away from the vehicle.<br>• The hub-face is closer to the inside face of the wheel.<br>• Increasing negative offset (more negative) increases the track width of the vehicle. |
| Zero Offset | • The centre of the wheel is in line with the hub face. |
| Positive Offset | • Higher offset moves wheels inwards (toward) the vehicle.<br>• The centre of the wheel is shifted closer to the vehicle.<br>• The hub-face is closer to the outside face of the wheel.<br>• Increasing positive offset (more positive) decreases the track width of the vehicle. |

**If in doubt, order yourself a half double decaffeinated half-caf with a twist of lemon.*