

## School of Environment Vehicle Guide

### Toyota Hilux 4×4 (FAH690)



## School of Environment Vehicle Guide Hilux 4×4 (FAH690)

### Warnings!

- This vehicle runs solely on **Diesel**.
- Be aware that there is minimal clearance between the roof racks and the ceiling of the Chemistry Building underground car park (Car Park 36). **For this reason it is highly recommended that all roof-loads be removed before entering the car park.**

### Vehicle Specifications

- Maximum towing capacity –braked = 2250kg, unbraked = 750kg.
- Tyre inflation pressure (cold) = 40 psi (front) & 50 psi (rear).
- Length = 5255mm
- Width = 1835mm
- Height = 1930mm (without roof-racks). **With roof-racks = 1990mm**
- Maximum Seating Capacity = 5 persons

### Vehicle Charge-out Rates

Department vehicles are subject to charge-out rates, which differ depending on the purpose they are being used for. These are as follows:

- ENV internal operations = \$80.00/day + 10 cents/km
- For externally funded research = \$90.00/day + 10 cents /km
- For commercial purposes = \$110.00/day + 10 cents/km

### How to Book & Collect Vehicles

- Vehicles can be booked through reception on level 6 of Building 201 (HSB), or at Geology Reception on level one of Building 301.
- The keys for this vehicle can be collected from Geology Reception.
- This vehicle is parked in the cage at the southern end of Car Park 36, accessed from Princes Street, beneath the 300 courtyard (see Map 1 below).

Location of Hilux,  
beneath courtyard.



Map 1: University of Auckland, Geo-graphics  
Unit, School of Environment, 2009.






### Log-book & Fleet Card


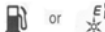



- All vehicles are allocated their own log-book folders, which are collected (along with the vehicle keys) from reception.
- Within this folder (on the sheet provided) please record the kilometres you have travelled in the vehicle, noting the odometer reading at the beginning and end of your journey.
- This folder also contains a Fleet Card, which can be used to purchase fuel (**strictly for this vehicle**) from participating petrol stations. **It does pay to check that the petrol station accepts the fleet card before you put any diesel in the vehicle.**
- When purchasing fuel, make sure to give the current odometer reading to the attendant, and place the receipt back in the folder.


### Breakdown Contact

- In the unfortunate event of a breakdown, contact GSB (24 hr emergency assistance service) on 0508 472 2273.
- Once contacted, quote the following:
  - (1) Fleet Card number.
  - (2) Type of service required.
  - (3) Your location.
  - (4) Vehicle registration number, make, colour and model.

### Dash Lights & Indicators (Sourced from: Toyota Motor Corporation, Owner's Manual, 2008; 91-93)

	Parking brake is on. If it is faulty, stop and contact Toyota dealer.
 <small>(indicator and buzzer)</small>	Fasten driver's seat belt.
 <small>PASSENGER</small>	Fasten front passenger's seat belt.
	Stop immediately and contact Toyota dealer.
	Stop and check oil.

	Take vehicle to Toyota dealer.
	Low fuel level warning light. Fill up tank.
	Anti-lock brake system warning light. Take vehicle to Toyota dealer.
	Door open. Check all doors.
	Problem with airbag. Take vehicle to Toyota dealer, immediately.
<b>T-BELT</b>	Timing belt replacement warning light. Take vehicle to Toyota dealer.

	Take vehicle to Toyota dealer. When flashing, drain fuel filter water (see pg 261 of Owner's Manual in glove box).
<b>A/T P</b>	Shift four-wheel drive control out of "N".
<b>A/T OIL TEMP</b>	Stop the vehicle and check.
Key reminder buzzer	Key left in ignition. Remove.
Light reminder buzzer	Turn lights off.

### Fuel Tank

The fuel tank flap and cap are situated on the external, left-hand side of the rear utility tray (Figure 2, A). To release the flap there is a tab located on the underside of the dash, to the right of the steering wheel (Figure 1, B).



## Fire Extinguisher, Tool Bag, Jack, Tow rope & Jumper Leads

- These items are stored in hatches beneath the rear Passenger seat (Figure 3). To access, pull the fabric cord (centre of the seat at floor level) and lift the lower section of the seat upwards.

## Battery Location

The vehicle's battery is located beneath the hood, on the right side of the engine compartment, when standing in front of the vehicle (Figure 4, D). To pop the hood there is a tab located on the underside of the dash, to the right of the steering wheel (Figure 1, C).



## Jump Starting Vehicle (Information sourced from Toyota Corporation, Owner's Manual, 2008)

- To jump start the vehicle from another vehicle, or vice versa, park the vehicles alongside each other (**ensuring that the vehicles are not touching**) so that both batteries are within close proximity, allowing the jumper leads to span from battery to battery.
- The cable connections between the two batteries should be completed in the following order:
  - (1) Connect the red lead (positive) to the positive (+) terminal of the flat battery.
  - (2) Connect the opposite end of the red (positive) lead to the positive (+) terminal on the booster battery.
  - (3) Connect the black lead (negative) to the negative (-) terminal of the booster battery.
  - (4) Connect the other end of the black (negative) lead to a solid, unpainted and stationary metallic point on the vehicle with the flat battery. **Do not attach to any part of the vehicle or engine that will move once the vehicle is started.**
- Once the leads are correctly in place, the vehicle supplying the charge should be started and allowed to idle before, and whilst, the other vehicle with the flat battery is started.
- For diesel vehicles it is recommended that the flat battery is charged for approximately 5 minutes, with the jumper leads connected. During this time run the

engine at approximately 2000rpm (on the vehicle with the booster battery) holding the accelerator slightly depressed.

- To disconnect the jumper leads, do so in the exact reverse order as above. Starting with the negative lead, and then the positive.
- **Warning!** To avoid serious harm or death, when attaching the jumper leads, do not lean over the battery or allow the jumper leads or clamps to come into contact with anything except the correct terminals.

## First Aid Kit

- The first aid kit (E) is located in the consol hatch, between the front Driver and Passenger seats (Figure 5).



## Map & Torch

- These items are located in the glove-box. **They must always be returned to the vehicle after use.**

## Spare Tyre

- To access the spare tyre (located beneath the rear tray), an extension rod must be assembled (Figure 6). The parts for this rod can be found in the vehicle tool bag.
- This rod consists of 4 parts; 3 rods (one with a hooked end), which are slotted and screwed together, use screwdriver from tool bag to ensure a tight connection and prevent detachment during use. The wheel nut wrench can then be fitted to the end of the assemblage to act as a turning brace.
- Once the rod is assembled correctly, it can be inserted (hook end first) into an opening (F) between the rear licence plate and tailboard of the vehicle (Figure 7). At the rear of this opening is located a metal slot which accepts the hook and can be turned in an anticlockwise direction to release the spare tyre from its bracket



## Towing

- Should the vehicle become stuck or require towing, there are towing eyelets, located under the front of the vehicle, which a tow rope may be secured to (Figure 8). **Do Not Attach Tow Rope Directly To Bullbar!**

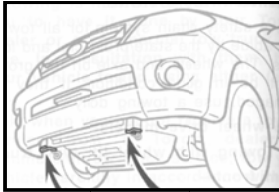


Figure 8: Sourced from Toyota Motor Corporation, Owner's Manual, 2008: 230