



Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

*Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and
Technical information the property of Brown Davis Automotive Pty. Ltd.*

GWV2R1

1

Fuel Tank Part List and Installation Instructions

TANK P/N: GWV2R1

GREAT WALL DUAL CAB – DIESEL
125ltr REPLACEMENT TANK

Item	Description	Quantity	Part number	P	C
1	TANK – REPLACEMENT	1	GWV2R1		
2	DRAIN PLUG – MAGNETIC – M14 (fitted to tank)	1	DP-M14		
3	SET SCREW – HEX - M10 x 40mm – PLATED 8.8	1			
4	NUT - STANDARD PLATED - M10	1			
5	WASHER – PANEL PLATED - M10	2			
6	WASHER – SPRING PLATED - M10	1			
7	SPACER BLOCK 10mm – SINGLE HOLE – 40 x 65mm	1	SP-10-040065		
8	WARRANTY CARD & INFORMATION SHEET	1			
9	BROWN DAVIS AUTOMOTIVE STICKER	1			

Packed by (P): _____

Checked by (C): _____

Date Packed: ____ / ____ / ____

P:\INSTRUCT\REPLACEMENT\word files\GWV2R1.doc

Last edited 13/08/12

PH: +61 (3) 9762 8722 FAX: +61 (3) 9762 9829
47 Holloway Drive, Bayswater, Victoria, Australia 3153

info@browndavis.com.au www.browndavis.com.au



Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and Technical information the property of Brown Davis Automotive Pty. Ltd.

GWV2R1

2

All Brown Davis Automotive fuel tank kits are manufactured to Australian Standards and the Australian Design Rules where applicable and carry a full **3 Year Warranty**. Construction in 2.0 mm cold rolled, aluminium coated steel ensures maximum strength and durability and minimum corrosion susceptibility. More than 30 years of testing within the field has shown that this gauge of steel is sufficiently impact resistant that an additional tank guard is not necessary (most standard tank guards are thinner than 1.5 mm).

All tanks are M.I.G. (Metal Inert Gas) welded to ensure the strongest possible seams and are baffled to prevent fuel surge. They are then pressure tested using two different techniques to eliminate the possibility of leaks. Drain plugs are fitted horizontally to prevent them being damaged if the tank is scraped over rocks and are magnetic to collect any metallic dirt that may enter your fuel system.

In all cases, Brown Davis Automotive fuel tanks are designed with general off road use in mind and are designed not to compromise ground clearance, entry, exit or ramp over angles.

Please remember it is the driver's responsibility to operate their vehicle in a sensible manner in 4WD conditions, Brown Davis Automotive cannot be held responsible for the abuse of your vehicle and subsequent possible fuel tank damage.

REPLACEMENT TANKS This tank is a replacement for the standard tank and fits in the same location. The standard filler is retained as is the fuel gauge sender unit which still works in the same manner except it takes longer to reach empty. Rearrangement of the exhaust system **IS NOT** necessary with this fitment.

ANY QUESTIONS OR INFORMATION REQUIRED IN RELATION THE BELOW INSTRUCTIONS PLEASE DO NOT HESITATE TO CONTACT BROWN DAVIS HEAD OFFICE OR ONE OF OUR DISTRIBUTORS.

PLEASE ENSURE ALL CONNECTIONS AND MOUNTINGS ARE CHECKED A SECOND TIME AFTER FINISHING YOUR INSTALLATION TO CONFIRM THERE ARE NO LEAKS AND THAT ALL BOLTS ARE TIGHT. ALWAYS ROAD TEST THE VEHICLE AND MAKE SURE THERE IS COMPLETE SUSPENSION TRAVEL CLEARANCE.

BROWN DAVIS CAN TAKE NO RESPONSIBILITY FOR AFTER MARKET SUSPENSION SYSTEMS INTERACTING WITH THE TANK, IF FITTED.



Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and Technical information the property of Brown Davis Automotive Pty. Ltd.

GWV2R1

3

FITTING

- 1 Remove the tailshaft, by unbolting it at the differential flange end, taking care to mark the correct alignment of the splines at the front for refitting, before sliding it off the diff. Remove the two nuts holding the tailshaft centre bearing, allowing complete removal of the tailshaft (Oil may/will leak from the transmission when the tailshaft is completely removed – If working on hoist attempt to catch the fluid or plug the input shaft area to prevent loss of fluid. Alternatively drain fluid from gearbox case prior to tailshaft removal).
- 2 Disconnect the rubber (50mm) fuel filler hose and (16mm) fast fill breather hose from the steel filler neck in the body under the drivers rear wheel arch.
- 3 Support the standard tank under the vehicle, unbolting it via the straps front and rear. Carefully partially lower it, until you can fit a hand over the top to access the fuel hoses and pump/gauge wiring. Unplug the wiring loom and disconnect the three fuel hoses. (2 from the top of the pump/gauge assembly and 1 vent hose from the body of the tank itself) Lower tank to the ground and remove from under the vehicle.



- 4 Confirm that the Brown Davis long range tank is perfectly clean inside before installation, by rinsing out the inside thoroughly, as should always be done with any new component installed into the fuel system of any vehicle. Use 4 to 5 litres of petrol, diesel or methylated spirits for this rinsing process which should be drained and discarded afterwards. Wiping out the inside of the injection pump swirl pot with a clean rag down through the pump entry boss in the top of the tank to confirm absolute cleanliness.
- 5 Remove the fuel gauge/pump assembly from the standard tank and install it into the new long range tank using the screws, washers, retaining ring and gasket supplied. Take care not to bend or damage the float arm assembly or standard fuel lines attached. Note orientation below.



Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and Technical information the property of Brown Davis Automotive Pty. Ltd.

GWV2R1

4

- 6 Lift the new tank into position with the front of the tank over the central crossmember. Hold up in place with a transmission stand or similar (remember to reconnect the wiring to the fuel gauge sender unit). Using the standard rear strap bolt with the supplied larger washer, bolt the rear left hand tank bracket into position in the left hand side chassis rail captive thread. The rear right hand side mount requires the supplied spacer block plate to be placed on the upper side of the factory tank mounting bracket, with a supplied M10 x 40mm screw, M10 nut, and M10 panel washer and M10 spring washer to fasten in place. The front of the tank is fastened as per the factory tank, with the standard steel strap re-fitted.



- 7 Re-check all bolts are fastened firmly and double up all nuts.
- 8 Connect up fuel lines ensuring clips are fastened correctly on fittings. Transfer the 50mm rubber filler hose and the breather line from the standard tank onto the new tank. These will need to be trimmed slightly to fit properly.





Brown Davis Automotive Pty. Ltd.
ABN: 72 657 573 544

*Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and
Technical information the property of Brown Davis Automotive Pty. Ltd.*

GWV2R1

5

- 9 Upon completion of the tank installation, refit the rear tailshaft, ensuring orientation matches earlier marking when removing the tailshaft.
- 10 Fill the new tank and check for leaks, road test to ensure the vehicle is driving as normal with no fuel delivery problems.





Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

Copyright Brown Davis Automotive Pty. Ltd. This document contains confidential and Technical information the property of Brown Davis Automotive Pty. Ltd.

GWV2R1

6

OPERATION INFORMATION

The operation of your new Brown Davis Automotive long range fuel tank is little different from the original tank.

Simply fill the long range/auxiliary tank exactly as with a standard tank. (It just takes more fuel to fill, and a dual filler will be used for filling auxiliary tanks).

The fuel gauge on the vehicles dash will read as with the standard tank. It should read with the same degree of accuracy as it did with the standard tank other than staying on full for most of the new increase in capacity. For about 20% more than the standard tank held the gauge will now read in proportion from full down to empty. Auxiliary tanks come with a separate tank gauge to show separate fuel level to main tank.

The low fuel light will still function as normal with it coming "on" at about 20% more fuel volume left to go than it used to, to warn you of low fuel.

Remember your new long range tank(s) are carrying a lot more fuel than standard. Remain aware of how much fuel has been used during the initial period of the gauge remaining on full for future reference in estimating fuel usage and consumption.

Maintenance and service of your new Brown Davis Automotive long range fuel tank other than the recommended 1000km check and filter change should be in align with the normal vehicle Manufactures service schedule and guidelines. Remember the long range tank has a magnetic drain plug that the standard tank did not. With the fuel level low the drain plug can be removed and cleaned to remove any metal fragments introduced from the filler bowser scraping on the filler tube when filling or particles and rust flakes from jerry cans used on long trips. This facility is supplied to protect the in-tank fuel pumps fitted to most modern vehicle fuel tanks.

Finally make sure the warranty card is filled out completely and returned to Brown Davis Automotive and that the warranty information is read and understood. If there are any queries about this or any of the above information please contact us at Brown Davis at the attached address or phone and fax numbers for assistance.