

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

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LDEA1

Last edited: 17/04/2012 p:\instruct\auxiliary\word files\Vdea1.doc

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Fuel Tank Part List and Installation Instructions

TANK P/N: LDEA1

LAND ROVER DEFENDER 110 80ltr AUXILIARY PETROL TANK

Item	Description	Quantity	Part number	Р	С
1	TANK – AUXILIARY	1	LDEA1		
2	HOSE - TMP - 6mm	3.0m			
3	HOSE - TMP - 16mm	0.5m			
4	HOSE – TMP – 12.5mm	0.45m			
5	HOSE - FUEL AND EMISSION - 8mm	1.5m			
6	HOSE - FUEL AND EMISSION - 10mm	1.0m			
7	HOSE - FILLER HOSE - 48mm	0.1m (x2)			
8	HOSE CLAMP – STAINLESS - 8-16mm	18			
9	HOSE CLAMP – STAINLESS - 12-20mm	6			
10	HOSE CLAMP - STAINLESS - 40-60mm	4			
11	DRAIN PLUG – MAGNETIC – M14 (fitted to tank)	1	DP-M14		
12	FUEL PICK UP – 3/8 x 1/4 BSP ELBOW	1			
13	BRASS ELBOW – ¼ x ¼ BSP	1			
14	BRASS ELBOW - 5/16" x 1/4" BSP	1			
15	BRASS ELBOW - 3/8" x 1/4" BSP	1			
16	BRASS ELBOW – ½ x ¼ BSP	2			
17	T-PIECE – STAINLESS STEEL BARBED – 5/8" x 1/4"	1			
18	CRIMP FITTING – SPADE FEMALE ¼ - RED	7			
19	CRIMP FITTING – RING 5mm - RED	5			
20	CRIMP FITTING – JOINER 5mm - RED	7			
21	WIRE - TWIN CORE - 3.0mm - RED/BLACK	4.5m			
22	SCOTCH LOCK	1			
23	SWITCH - TOGGLE DPDT - AUX/MAIN	1			
24	SET SCREW - HEX - M10 x 30mm - PLATED 8.8	4			
25	NUT – STANDARD PLATED – M10	8			
26	WASHER - FLAT PLATED - M10	4			
27	WASHER - SHAKEPROOF INTERNAL PLATED - M10	4			
28	SET SCREW – HEX – PLATED – 5/16 x ¾ UNC	2			
29	WASHER – SHAKEPROOF INTERNAL PLATED - 5/16"	2			
32	SELF TAPER SCREW - BUTTON HEAD 13mm - STAINLESS	4			

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33	SENDER UNIT – VDO 220-005 (fitted to tank)	1		
34	FUEL FILTER – INLINE – 10mm	1		
35	FUEL FILLER & CAP – LOCKING (PERKO)	1		
36	CHANGEOVER VALVE – 6-PORT (42-159c)	1		
37	LOOM – CHANGEOVER VALVE – 6-PORT (42-203)	1		
38	TANK BRACKET - CHANGEOVER VALVE BRACKET	1	TB-CV	
39	FILLER TUBE	1	FT-LDEA1	
40	WARRANTY CARD & INFORMATION SHEET	1		
41	BROWN DAVIS AUTOMOTIVE STICKER	1		·

Packed by (P):	Checked by (C):	
Date Packed: / /		





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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 (14 gauge) cold rolled, aluminium coated, steel ensures maximum strength and durability and minimum corrosion susceptibility. 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 assure 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 severe off road use in mind and will not compromise ground clearance, entry, exit or ramp over angles.

<u>AUXILIARY TANKS</u> Are designed to be installed in addition to the original factory fuel tank, with its own fuel gauge. An electrical changeover system simultaneously changes the source of fuel from the original (main) tank to the auxiliary tank (or vice versa), the vehicles fuel gauge is simultaneously changed over to indicate the level in the tank from which the fuel is being drawn.





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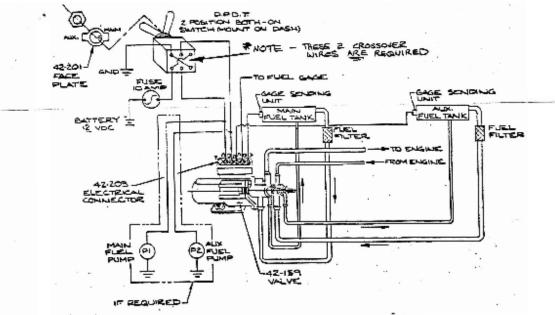


47 HOLLOWAY DRIVE, BAYSWATER 3153

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Phone (03) 762 8722 Fex (03) 762 9829

42-159 SELECTOR VALVE INSTALLATION SHEET



- THE THE POLLOWING:

 THE TAINS SELECTER VALVE IS INTENDED FOR USE WITH THE POLLOWING:

 -VEHICLES WITH CHE METHER LINES.

 -12 VICE SLECTSICAL SYSTEMS.

 -VEHICLES WITH IN-THAN PILL PUMPS OR VEHICLES WITH A SINGLE PURL SUMMER VALVE AND INSIDE.

 -WHICLES WITH IN-THAN PILL PUMPS OR VEHICLES WITH A SINGLE PURL SUMMER VALVE AND INSIDE.

 -WHICH TUMPERATURE SERWED. -46°7 AND -180°F.

 -AACDLING AND DIESIL FUEL SYSTEMS ONLY.

 -NOT FOR USE 18 FUEL SYSTEMS OPERATING OVER 65 PSI.

II. DETALLATION THETRICTIONS
THE PLECTRICAL AND FUEL SYSTEMS SHOULD SE CONDECTED TO THE VALVE AS SHOWN ABOVE, CHOOSE A PROTECTED LOCATION MEAR THE CRACIERY FURSTED SYSTEMS SHOULD SE CONDECTED. COLORS TO CHASSIS OF CHASE SOLLD SALVENING SOURCE. ORLEATY IT SOURCE MOUNT THE STUDY FOR VALVE TO THE CHASES OF CHASE SOLLD SALVENING SOURCE. ORLEATY IT SOURCE HER SIDE OF THE VALVE HITH THE FORE POSTS FOINTS TOWARDS THE FUEL TARKS. HOUTE THE AUXILIARY TAXY'S SOURCE AND RETURN LIVES TO THE VALVE. DERIVE THE FUEL TARKS. HOUTE THE AUXILIARY TAXY'S SOURCE AND RETURN LIVES TO CATUR AND SAVELY STORM ANY FUEL SELLING FROM THE COT TIME. USING PROPERLY TIGHTERED THORW'S STYLE KOSS CLAMP AND CASCULES—APPROVED FLEXIBLE FUEL ROOT, CONSTOCT THE FUEL LINES TO THE PROPER POSTS ON THE SELECTION WHILE. INSTALL FUEL FLEXES IN THE SOURCE LINES AS SHOWN. THE FUEL LINES ADDITING SHOULD MINIMIZE THE MEMBER OF FENUE AND HAVE THE LARGEST FORSIBLE ARTIST OF MINIMIZE THE FLAM RESTRICTIONS.

CHOOSE A POSITION OF THE DASK AND MOUNT THE SPOT TOQUES SMITCH AND 41-ZDL FARE PLATE. BUT THE ORDINAL MIRE FROM THE FUEL TAIS SENDING UNIT TO THE FUEL SASS AND CONNECTS BOTH ENDS TO THE 42-ZDL CONNECTOR. CONNECTS THE TAIN SENDING UNIT TO THE CONNECTS WITH THE TOTAL CONNECTS THE THE TOGGLE AS SHOWN THAT THE THE THE PLATE OF TERMINALS TO A TOOL ORDINAL AND THE SMITCH TO THE FURNISHES TO THE FURNISH A LIGHT AND THE SMITCH TO THE SMITCH THE SMITCH TO THE SMITCH THE SMITCH TO THE SMITCH TO THE SMITCH THE SMITCH

BOUDLE CHECK THE SYSTEM TO BE SURE ALL THE ELECTRICAL AND PUBL COMMECTIONS HAVE BEEN INSTALLED. CONNECTLY, THEN PLACE A SMALL CHARTITY OF PUBL MACK INTO THE PUBL TANKS TO CHECK THE SYSTEM FOR LEAK AFTER IT WAS BE DETERMINED THERE ARE NO FORL LEAKS. START THE VEHICLE FROME AND SWITCH TANKS TO DETERMINE IF VALVE IS FUNCTIONING PROPERLY, CHECK THE AS GADE WHEN THANSPERRING BETWEEN TARKS FOR PROPERLY AND THE USUAL LEGISLE WITCH LEVEL LEVEL LEGISLE AND STREET THAN BEEN DETERMINED EVERYTHING HAS BEEN INSTALLED PROPERLY REFILL THE FUEL LEVEL TANKS.

VALUE OPERATION A MISSION AND GROUND TO DITTLE FUEL WILL PLOW FIRM THE MAIN FUEL TASK THRU THE PILITER. THRU THE VALUE TO THE EMILINE AND RETURN BACK THRU THE VALUE TO THE MAIN FUEL TASK. HERE THE PILITER, TO THERETHALS FAME OF THE PILITER FUEL TO FLOW FROM THE AUXILIARY SUEL TASK THRU THE FUELTS THRU THE VALUE TO THE ENGINE AND RETURN BACK THRU THE VALUE TO THE

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OPERATION INFORMATION

The operation of your new Brown Davis Automotive gas conversion fuel tank is little different from the original main tank, however very similar.

Filling the tank may be via a dual filler neck in the factory fuel fill position, or may be a remote filler at another location as identified to you upon installation. Simply fill the auxiliary petrol tank exactly as with a standard tank via the appropriate filler type.

The fuel gauge is separate to the main tank, however will read as with a standard gauge indicating empty/full and the progression in between. It should read with the same degree of accuracy as with a standard tank other than the difference in capacity to the standard tank.

The low fuel light for the main tank will still function as normal.

Maintenance and service of your new Brown Davis Automotive auxiliary 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.



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