

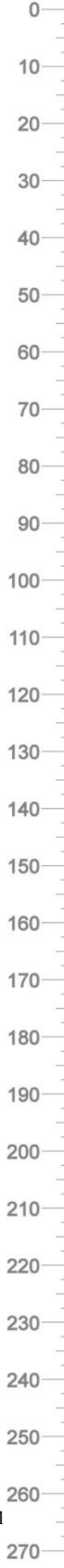
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**TOYOTA FJ CRUISER 2006- PRESENT – 110lt AUXILIARY TANK
 AUXILIARY FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS
 PART NUMBER: TFJCA1**

Item #	Description	Quantity	Part No.	P	C
1	TANK—REPLACEMENT	1		-	-
2	DRAIN PLUG—MAGNETIC—M14 (FITTED TO THE TANK)	1		-	-
3	HOSE – FUEL AND EMISSION – 12.5mm	600mm			
4	HOSE – FUEL AND EMISSION - 8mm	700mm			
5	HOSE – FUEL AND EMISSION – 12.5mm	70mm (x2)			
6	HOSE – FILLER – 35mm	70mm (x2)			
7	HOSE – FILLER – 35mm	100mm			
8	HOSE CLAMP – STAINLESS – 8-16mm	6			
9	HOSE CLAMP – STAINLESS – 12-22mm	8			
10	HOSE CLAMP – STAINLESS – 32-50mm	6			
11	FUEL PICK UP – 5/16" x 1/4" BSP ELBOW	1			
12	BRASS FITTING- 1/2" x 1/4" BSP ELBOW	1			
13	CABLE TIE - 8" BLACK	5			
14	FUEL GUAGE/SWITCH – CP 309GS LED DASH UNIT	1			
15	BUZZER – PEEL – CP 5	1			
16	WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG	6m			
17	CRIMP FITTING – SPADE FEMALE 6mm - INSULATED - RED	1			
18	CRIMP FITTING – SPADE FEMALE 4mm - RED	1			
19	CRIMP FITTING - RING 5MM - RED	1			
20	CRIMP FITTING – JOINER 3mm - RED	1			
21	SCOTCH LOCK	1			
22	SENDER UNIT - VDO 220-004—FITTED TO TANK	1			
23	FUEL PUMP – POSI-FLO	1			
24	FUEL FILTER – INLINE – 8mm	1			
25	BRASS FITTING-TAIL BARB– 1/8" x 5/16" BSP	2			
26	TOYOTA INNER GUARD CLIPS	3			
27	SCREW - SELF TAPPER	2			
28	SET SCREW – HEX – M8 x 20mm – PLATED 8.8	1			
29	SET SCREW – HEX – M8 x 30mm – PLATED 8.8	7			
30	WASHER – PANEL PLATED – M8	7			
31	WASHER – SPRING PLATED – M8	7			
32	WASHER – SHAKE PROOF – M8	1			
33	SET SCREW – PAN HEAD – M4 x 10mm – PLATED 8.8	5			

KIT CONTINUES ON NEXT PAGE



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Item #	Description	Quantity	Part No.	P	C
34	WASHER – SPRING PLATED – M4	5			
35	T-PIECE – 1 3/8" x 1 3/8" x 1 3/8"	1	FT-TFJCA1-1		
36	FAST FILL PIECE – STAINLESS – 1/2" x 1/2" ANGLE	1	FT-TFJCA1-2		
37	Y-PIECE – STAINLESS – 1/2" x 5/16"	1	FT-TFJCA1-3		
38	WARRANTY CARD & INFORMATION	1			
39	BROWN DAVIS AUTOMOTIVE STICKER	1			

	STAFF MEMBERS INITIALS	DATE
KIT PACKED BY		
KIT CHECKED BY		



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TFJCA1 – 110lt AUXILIARY TANK AUXILIARY FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS PART NUMBER: TFJCA1



WARNING:

THIS FUEL TANK IS HEAVY. DO NOT ATTEMPT TO LIFT THIS FUEL TANK WITHOUT APPROPRIATE ASSISTANCE OR SERIOUS INJURY MAY RESULT



WARNING:

ENSURE A FIRE EXTINGUISHER IS AVAILABLE WHILST WORKING NEAR EXPOSED FUEL



-CHECK CONTENTS OF KIT BEFORE COMMENCING FITMENT

-DRAIN VEHICLE FUEL TANK TO LOWEST LEVEL POSSIBLE BEFORE COMMENCING FITMENT

-BEFORE INSTALLATION THE BROWN DAVIS LONG RANGE TANK SHOULD BE WASHED OUT WITH THE SAME FUEL TYPE AS THE VEHICLE IT'S BEING FITTED TO

Any questions or information required in relation to the below instructions please do not hesitate to contact Brown Davis head office or one of our distributors.

**Phone: +61 (3) 9762 8722
Email: info@browndavis.com.au**

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SETUP FOR AUXILIARY TANK

1. Remove filler neck

- ⇒ Remove inner L/H plastic guard by removing 3 plastic plugs & 1 x M6 bolt.
- * Replacement plugs are supplied as clips will be destroyed.
- ⇒ To remove filler neck assembly from car, undo M8 nut in wheel arch M8 bolt above diff and 2 hose clamps of rubber hoses. Filler to be removed out of wheel arch P/Side.



2. Cut the original filler ***as shown in photo's.*

- Connect the **T-PIECE – 1 3/8" x 1 3/8" x 1 3/8"** using the 2x 70mm long **HOSE – FILLER – 35mm**



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3. Cut the fast fill pipe *as shown in photo's***

- Connect the **YFAST FILL PIECE – STAINLESS – ½" x ½" ANGLE** using the 2 70mm long **HOSE – FUEL AND EMIS- SION – 12.5mm.**



4. Reinstall modified filler tube to the original location.



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5. Mount the fuel pump to the captive stud above the diff.

⇒ ****REFER PHOTO****

⇒ **NOTE:** PHOTO SHOWS OLD STYLE PUMP. Mounting point is the same for new pump



6. Use **HOSE – FUEL AND EMISSION - 12.5mm** to connect the **Y-PIECE – STAINLESS – ½" x 5/16"** to the fast fill breather tube.

- Connect **HOSE – FUEL AND EMISSION - 8mm** between the fuel pump and **Y-PIECE – STAINLESS – ½" x 5/16"** using hose clamps supplied.
- Cut hose's to size - keep left over.



7. Run the **WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG** from drivers side of car across firewall and down passenger side of car to where fuel pump is located.

- The end with the plug should be in the vehicles cab at the dash.
- Brown Davis recommends to follow existing wiring where possible or other wise, follow fuel lines or air conditioning lines.

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8. Locate somewhere on the dash to mount the **FUEL GUAGE/SWITCH – CP 309GS LED DASH UNIT**. **photo is for reference only**

- Drill a 20mm (approx.) to install.



9. Locate 12 volt ignition wire

10. Connect the single red wire from the **BUZZER – PEEL – CP 5** to the 12 volt ignition wire using the supplied SCOTCH LOCK or by soldering.



27. Stick the **BUZZER – PEEL – CP 5** behind the driver side kick panel or dash.

- Earth the ring (circled in photo) by fastening it to a metal surface.



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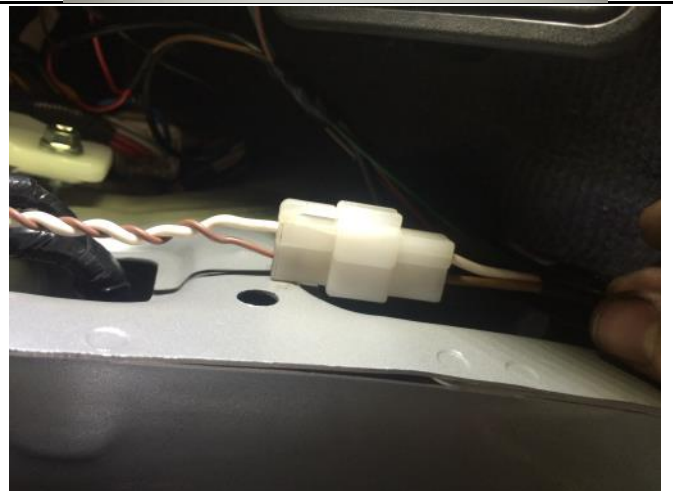
12. Connect the plugs from the **FUEL GAUGE/SWITCH – CP 309GS LED DASH UNIT** to the **BUZZER – PEEL – CP 5**.



13. Connect the black wire to the chassis to earth the pump.





14. Connect the white plugs from both the **BUZZER – PEEL – CP 5** and the **WIRE – TWIN CORE – 3.0mm – BROWN/WHITE – WITH PLUG**.



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<p>15. Connect the CRIMP FITTING – JOINER 3mm - RED to the red wire on the FUEL PUMP – POSI-FLO.</p> <ul style="list-style-type: none">Join the white wire to the opposite end of the CRIMP FITTING – JOINER 3mm - RED.NOTE: The white wire should be trimmed first to avoid excess wire. Keep off cut wire for later step.	
<p>16. Attach the CRIMP FITTING – SPADE FEMALE 6mm - INSULATED - RED to the brown wire so it can be plugged to the center plug on the SENDER UNIT - VDO 220-004 (circled in photo) that is fitted to the tank.</p> <ul style="list-style-type: none">NOTE: The brown wire should be trimmed first to avoid excess wire.	
<p>17. The sender unit must also be earthed.</p> <ul style="list-style-type: none">Using the white off cut wire connect the CRIMP FITTING - RING 5MM - RED to one end and the CRIMP FITTING – SPADE FEMALE 4mm - RED to the other.Plug the CRIMP FITTING – SPADE FEMALE 4mm - RED to the SENDER UNIT - VDO 220-004 (circled in photo).Connect the CRIMP FITTING - RING 5MM - RED to the chassis.	
<p>18. Connect the white plugs from both the BUZZER – PEEL – CP 5 and the WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG together.</p>	

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SETUP OF AUXILIARY TANK

19. Fit **BRASS FITTING- 1/2" x 1/4" BSP ELBOW** to top of tank pointing towards filler.

- Fit **HOSE - FUEL AND EMISSION - 12.5mm** that fitting.



20. Fit **FUEL PICK UP – 5/16" x 1/4" BSP ELBOW** to lower part of tank and point towards front of car.



21. Cut 80mm off the left over 8mm hose, use to connect **FUEL FILTER - INLINE - 8mm** to the other side of the pump before fitting tank.



- Connect the rest of the hose to the other end of the fuel filter.



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INTSTALLATION OF AUXILIARY TANK

<p>22. Lift tank into position using lifting device.</p>	
<p>23. On the way up plus the wiring to the sender unit, see step 16 &17.</p>	
<p>24. Line up the 2 side brackets and fit M8 x 30mm bolts with spring washers and panel washers. *PHOTO 1.</p> <p>⇒ Fit remaining M8 x 30mm into the front end mounting bracket. *PHOTO 2.</p> <ul style="list-style-type: none"> • Do all bolts up finger tight. 	
<p>25. Connect the tank filler to the T-PIECE – 1 3/8" x 1 3/8" x 1 3/8" using the 100mm HOSE – FILLER – 35mm.</p> <ul style="list-style-type: none"> • Connect fast fill breather hose (connected in STEP 10) to the YFAST FILL PIECE – STAINLESS – 1/2" x 1/2" ANGLE. <p>⇒ Cut hose to size making sure there are no low point.</p>	
<p>26. Connect the hose from the fuel filter to the FUEL PICK UP – 5/16" x 1/4" BSP ELBOW.</p>	

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27. Tighten all mounting bolts evenly.

28. Double check all fuel line clamps and security of fuel lines. Fill tank and check for leaks. Road test and check for rattlers & squeaks. Re-check for fuel leaks.

