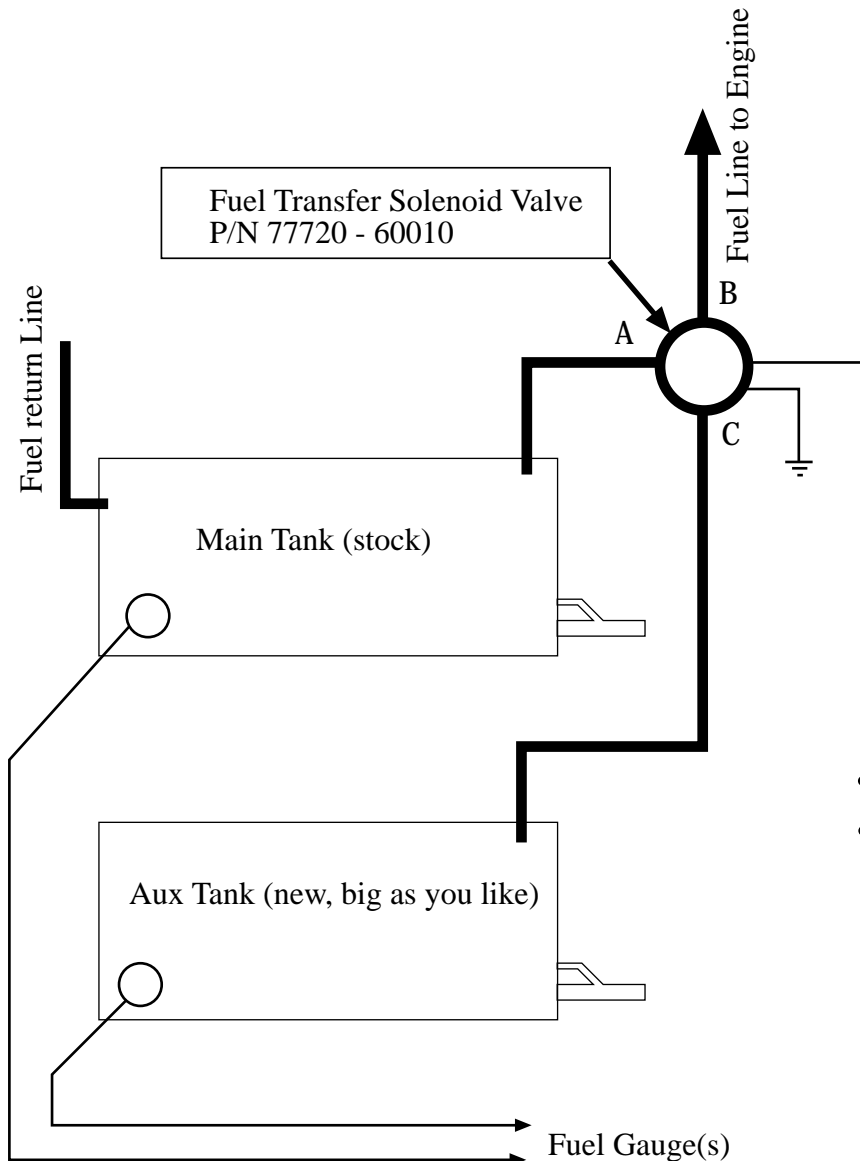


Shadetree Engineering

Auxiliary fuel tank system for Toyota Land Cruiser HZJ75 or similar



Design Notes

This is a basic design for a dual tank system which is pretty close to how Toyota does it in the 70 series Land Cruisers. The only difference is that Toyota uses a second solenoid valve to switch the fuel return line as well; convenient, but not strictly necessary.

If you're feeling inspired, you can wire the fuel gauge senders in such a way that the stock fuel gauge displays the contents of the 'active' tank (be sure to use a sender identical to stock, else you get weird results!), and have it and the fuel transfer solenoid valve all activated by a neat little toggle switch on the dash. If you don't feel that inspired, just install a second gauge for that 'DC-3 cockpit' look. Either way, you still need a switch for the valve.

About that solenoid...

It's a vaguely cylindrical device, with three fuel line connections, which I've labelled A, B and C. The schematic assumes that it's installed vertically, with the fuel line connections towards the bottom (which is how it's installed in factory applications).

When it is not receiving power, fuel can flow freely from A to B, and line C is blocked.

DISCLAIMER:

Fuel is dangerous - especially petrol - so be very careful and don't get yourself killed or anything.

This is for a diesel. I have no idea if it would work for a petrol engine.

Feel free to contact me with any questions.

Oh, yeah: The P/N is correct - Toy's description is off.

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