

Annotated sketch illustrating the working principles of the SU Petrolift. The hollow upper plunger drops as the fuel flows to the carburetter because it is suspended from the cork float in the reservoir. The action of the steel section of the upper plunger dropping through the field of the permanent magnets causes the electrical contacts to close which energises the electro-magnetic coil, this forces the lower plunger upwards which supplies fuel to the reservoir and automatically opens the contacts as the steel section of the upper plunger rises above the magnetic field of the permanent magnets. With the loss of power to the coil the lower plunger drops, allowing fuel to pass through the plunger disc valve ready to repeat the action until the fuel reservoir is full, at which point the upper plunger is supported by the float above the magnetic field. *(Author)*

The following sketches have been extracted with the Authors permission from the book "Skidders Union" as published by The S.U. Carburetter Company Ltd.







