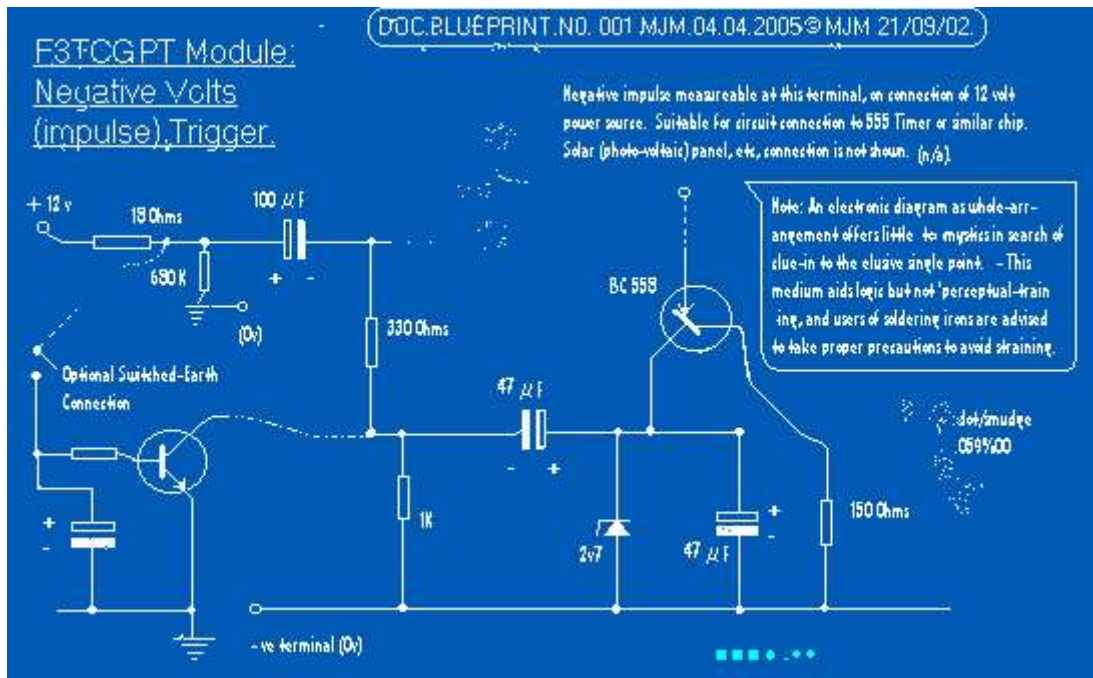


Electronics Designs and Informative Texts by Martin J. Marsh.

-feedback from those interested in a precise policy comment or from an enterprise point of view welcomed. Email: marshgrz@hotmail.com

Generally useful circuitry:



Other electronics project designs suitable for the amateur, for which circuit diagrams can be made available (more details from marshgrz...), include the other modules of the full F3TCGPT (see booklet details below), oscillator and power-supply circuitry (3v, 1.5v), and specialised response switches. Power source used is mostly 12v DC.

A burglar alarm circuit suitable for automobile use is due to be put online, and which only requires a small amount of further development work to fully compatible with the highest stipulations of modern IT requirements.

Development of some of the other projects, such as the temperature-controlled fan switch for the Desalination Unit, is either preconfigured in previous circuitry (F3TCGPT), or is still at the design stage. Funding, of course, will be very useful for the larger and socially useful projects, and any contributions are welcomed.

New project ideas can be prioritised if they:

...have a scientific or technical aspect, provide a solution for a known problem, offer community benefit, and fulfil eco- and personal goals.

The F3TCGPT.

This amateur project started off as a design for a device to provide timed control of the operation of the Glow-plugs in a van with diesel engine. Three functions are enabled, so that the device operates either automatically on startup from the ignition switch, or it can be switched to bistable mode for continuous engine testing in a workshop; the third option gives manual operation with warning light indicating overrun.

The F3TCGPT booklet was first printed on an old Amstrad wpc, with all diagrams drawn by hand, © Martin J. Marsh, Aug 2001.

General perspectives on industry and commentary on cybernetic theory are also included, as well as a large overall circuit diagram including all modules. With connections, mods and suppliers of components, plus build-advice.

Potential publishers will need to supply funding and software for reproducing the electronic diagrams.



Contents of F3TCGPT booklet:

- Contents – first edition, Aug 2001
- Introduction with Background
- Various aspects of Cybernetics
- Semiconductors and chips used
- Current-Direction Principles
- The Fail-Safe Device, and Test Charts
- F3TCGPT (Mk 1.52) Circuit diagram for van
- Functional Stages of F3TCGPT
- Construction and Installation
- Component Sources & Distributors
- References
- Workshop Notes

Eco-Tech.....

Apart from the Desalination Unit, which is still at the project-design stage, interested persons should get in contact if they need further information on building either of these circuits:

- ➔ Power-surge protector to protect a photovoltaic solar panel from sudden surges in power when under high-tension conditions at times of peak running (e.g. Surges from blipping a vehicle ignition or road-bumps/waves affecting a battery with fluid electrolyte).
- ➔ Isolating unit, with LED indicator. Connected to a heavy-duty switch, this circuit temporarily isolates sensitive devices, such as solar panels in blazing sunshine, for 20 seconds during load switching.