



# Update News

as at 1st October 2002

from **Lutec Australia PTY LTD**

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Last month we reported that we were endeavouring to perfect our method of delivering the pulsed electric input to our motor section, and the problem being encountered was mainly a timing issue. Our challenge was to control and contain, or redirect the voltage and current spikes that were being generated at sporadic, yet regular and occasionally overlapping intervals.

To more clearly clarify the issue we will use water as an example for simplicity of explanation. What we were trying to do was comparable to attempting to squeeze four gallons of liquid into a one gallon capacity container. What we need to do is to regulate the flow and spread the dumping of the four gallons across a number of containers. These can be designed and controlled to immediately dump what they receive in a particular sequence down a specified path, without ever becoming over filled.

Sounds simple enough doesn't it? We have tried several dozen different ways of addressing the problem electronically to no avail. The decision was taken to go back to the actual point of generation of the spikes and to attempt means of synchronising and controlling them at source, rather than spending more time attempting to control what was being generated.



Accordingly we have since performed major remedial surgery to the motor section. This entailed the re-alignment of the permanent magnets relative to one another on the motor drum. Theoretically this should result in the pulse spikes created by the collapsing magnetic fields being able to be more readily controlled than with the previous configuration. This is mainly because the sporadic nature of the spikes has been eliminated and although the spikes are no smaller they are regular and even, and so we hope more controllable.

At the time of writing the motor section has been reassembled, the coils are yet to be reinstalled; the integrated circuit boards have been prepared. This means we should be ready in the next week or so to wire it all up and see what happens.

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