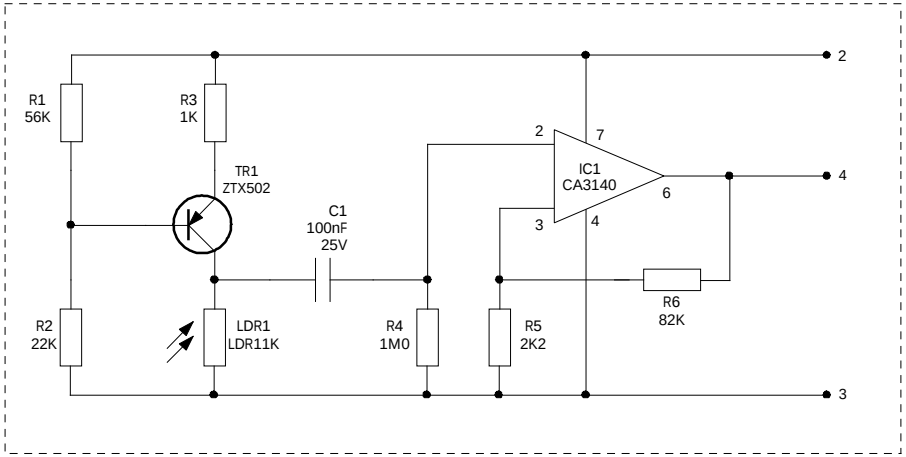
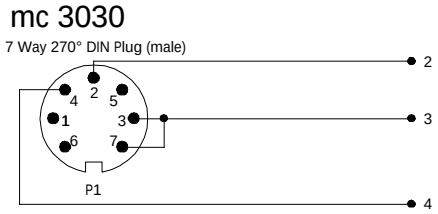
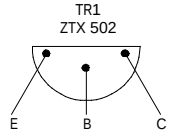
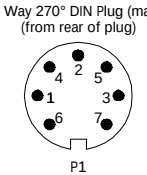


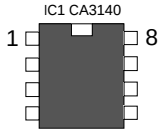

mount electronics within dotted lines on perforated board




Device Pinouts
(viewed from underside)




Instructions

- All components should be widely available at your favourite electronics store.
- Mount the components on a piece of perf board.Bring out the LDR on a pair of short wires.
- Fit a piece of 3 core flexible cable (max 1 metre) to the board and wire to the DIN plug (remember the link between pins 7 & 3 on the DIN plug !)
- Fit the board in a piece of 22mm * 100mm plastic tube, and mount the LDR so that it can view out the end. Use your modelling ingenuity here :-) Make sure that it is all insulated of course. Something to remember is that should the tacho be stuffed into the prop, that it doesn't fire sharp bits of broken casing into your face - so use an intelligent material !!!
- Double, then triple check your wiring - but then you would have anyway - wouldn't you ?
- Plug the unit into your Tx and switch on. You can check the calibration by holding the end of the tube up to a fluorescent tube - in the UK, the mains is at 50Hz, so the tube fires at 100Hz. This gives 60 * 100 = 6000 pulses per minute. For a two bladed prop, this should be 6000/2 = 3000 RPM ! At 60 Hz (USA etc) the result should be ... (120*60)/2 = 3600 RPM.
- In the event that it doesn't work, check ALL the connections again!

*While every care has been taken in the design and drawing of this schematic, mistakes DO and CAN happen - the onus is on YOU to ensure all is well.*

FYI - Pin assignments on mc 3030

1 Charger Input (+)
2 Voltage from Power Switch (+)
3 Ground (-)
4 I/O - Trainer Signal - Tacho Input
5 Trainer (RF disable) - strap to Gnd (3) to enable trainer on 4, and switch off RF module.
6 N/A
7 Tacho enable - strap to Gnd (3) to enable tacho signal on 4.

DATE
27 June 2001 v1.0

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