

Lath-E-Boy wiring is dangerous as presented

I just received the January issue and as usual it was a great read! But looking at the schematic on page 39 for the Lath-E-boy, there is a very problematic scenario in the bottom right-hand corner. The wiring for the induction motor is the big concern.

As per AS3000, under no circumstances are you allowed to use the yellow/green wire for power. It is only to be used for earthing. On page 41, in the picture of the junction box, you can see the yellow/green wire connected to the blue wire.

Even if the motor is mounted to the machine which is usually metal you still have to earth the motor separately, in case the bolts come loose.

I know some electricians are using the yellow/green wire for switching. In doing so, the wire must be covered by heat shrink so everyone is aware that this is not Earth.

It is just easier (and safer) to use a 5-core cable (red, white, blue, black and yellow/green) with adequate wire size as you need the yellow/green wire to earth the motor anyway.

Please make your readers aware of this and publish a correction!

**Thomas Siegmeth,
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Comment: Thanks for bringing this to our attention. It is a big No-No and we should have spotted it.

We are publishing errata on this in the current issue and we will change the motor wiring in the bottom right-hand corner of the above circuit: green/yellow to dark blue and motor earth to green/yellow. The online edition will have this issue fixed.

Lath-e-Boy reversal not suitable for all lathes

I have a warning regarding the Lathe-E-Boy Lathe Controller from the January 2018 issue (siliconchip.com.au/Article/10933).

Reversing a lathe such as a Tida which has a camlock chuck is fine but if an unwary person sets up a lathe

with a screw-on chuck to be reversible, the chuck can easily wind off the spindle nose. Otherwise, I found it to be a very interesting article. Keep up the good work.

**Ian Stewart,
Camberwell, Vic.**