



Unfortunately there appears to be very little information available on the Passap Electra 4000 series of Electric Motors for the E6000 Knitting Machine.

We are aware of 4 models:

Passap Electra 4000

Passap Electra 4060

Passap Electra 4080

Passap Electra 4600

What may be considered the 'odd one out' of these 4 is the Passap Electra 4600, this is combined with a 'customised' E6000 Console whereas the other 3 are completely independent from the console!

The Electra 4060 appears to be a slightly advanced version of the 4000, but details are very limited.

Perhaps a better appreciation of what is possible with the 4000, 4080 and 4600 can be achieved by viewing the cabling diagrams – see *later pages*.

All versions contain some similar components, but things are not directly inter-changeable.

There used to be available Passap Upgrade packages/Conversion kits (never seen by us) for 4000 to 4060, 4000 to 4600 & 4000 to 4080 (we are not sure if other parts were also necessary)

Two main points of reflection:

4060, 4080 & 4600 all use a different (looks similar but more advanced) VM Console to the 4000 (module that plugs into the motor chassis) [these modules are rather rare and not something we can accommodate as custom microcontroller IC etc.]

4000, 4060 & 4080 all include an integral +15V DC supply. 4600 does not include an integral supply & uses one from the E6000 Console connection – there is no automatic supply sharing components within any 4000 series motors so any conversion MUST accommodate this factor – add/remove AC-DC PSU into motor chassis?

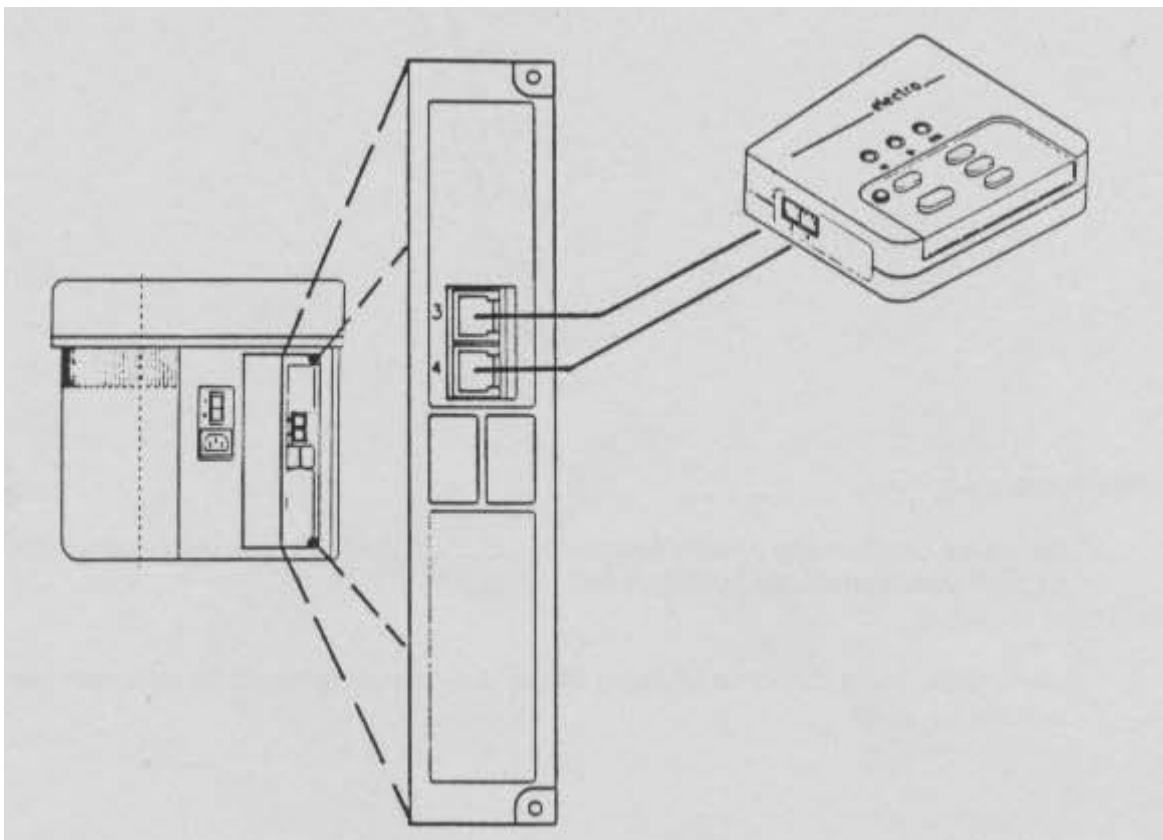
The necessary 4600 Console related Daughter Board is supposedly available, plus we have previously made + have limited stock of our alternative.



**Electra 4000:** As visible in the cabling diagram below, the 4000 Motor only has connections with a simple Motor Controller Box. This provides a total of 5 pushbuttons to control the motor BUT no links for yarn sensors, colour changer or row count. Note: we believe you can use the Console to provide a down count - but this is not linked in anyway to the motor.

The buttons: OK – used to cancel any corrected errors on LEDs. GO/STOP – starts/stops the motion of the motor. COL – send the motor past any RH stop, into a non-connected Colour Changer/extreme right hand side of the KM. ↔ - stop at the end of current row. &

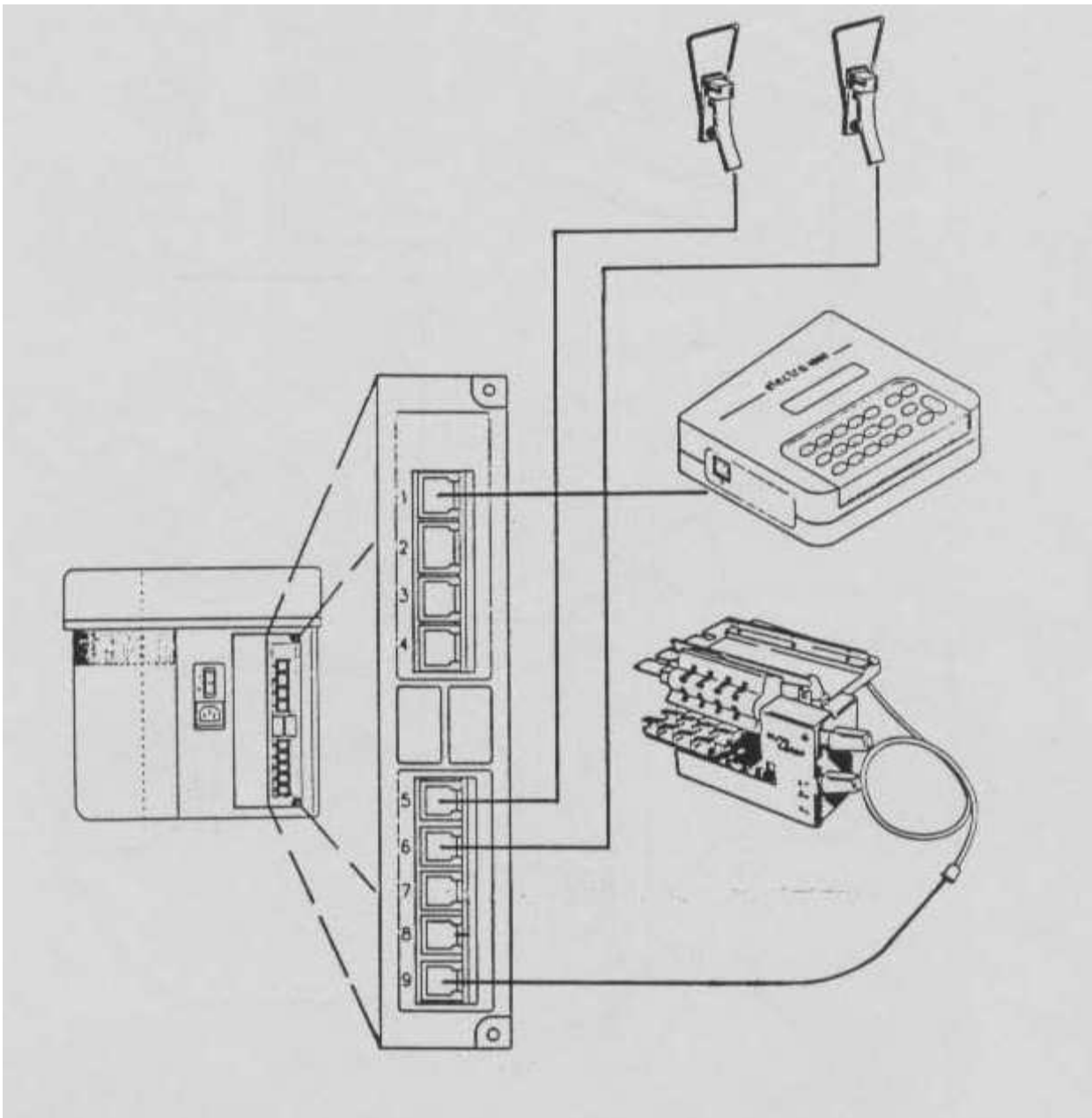
↻ -direction change (only use when stationary)





**Electra 4080:** As visible in the cabling diagram below, the 4080 Motor has connections with a more complex Motor Controller Box but also connections for (2) yarn sensors, an automatic colour changer . NOTE NO CONSOLE interface or connectivity!.

There are 20 keys/buttons with a multi-character display. Presumably, these enable the user to define various stops, colour changes etc.





**Electra 4600:** As visible in the cabling diagram below, the 4600 Motor has connections with a simple Motor Controller Box (as 4000) but also connections for (2) yarn sensors, an automatic colour changer AND the E6000 Console (requires Daughter Board)

The Controller Box appears to be identical to the 4000 BUT the Console can be programmed for Stop Points and Colour Changes plus indicates row count etc.– so what the motor does is controlled by the console programme!

Note: suspect motor based end stops & console programmed end stops may conflict in some way!

