Section 6 - 6

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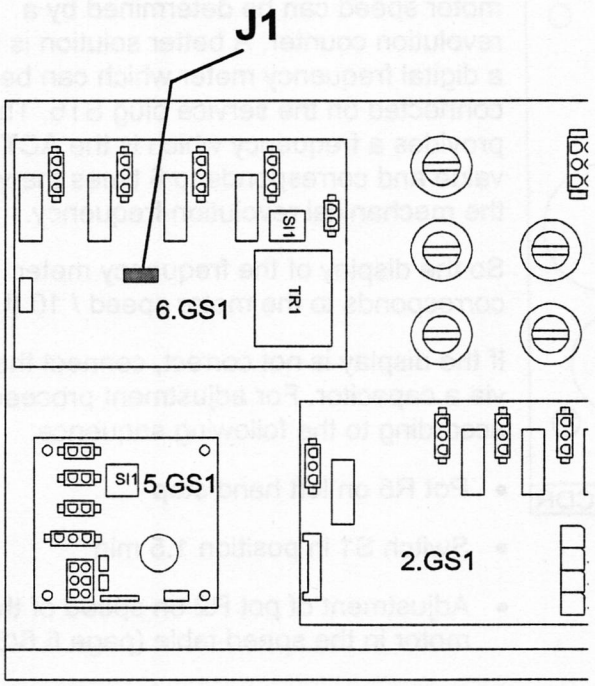
1 Changing the display from °C into °F and vice versa



520303MM.CDR

The temperature display in °C or °F is controlled by jumper J1 on the 6.GS1 (Temperature Control PCB).

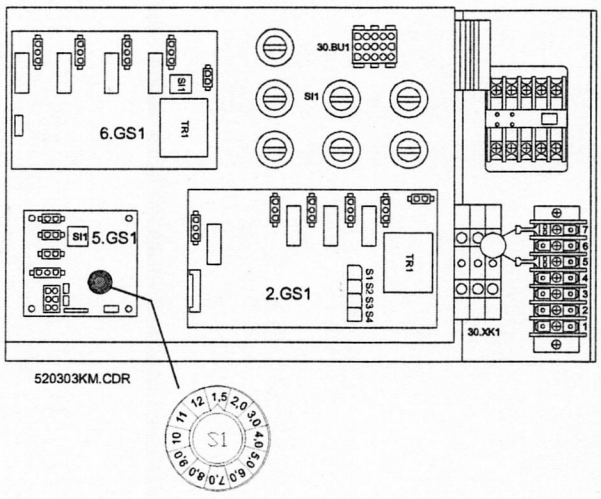
The program always works with Celsius (°C), however, with a jumper in the plug the display switches to Fahrenheit. The program converts the display according to the formula [(°C *9 /5) + 32]. The value in °F is shown in integer numbers.

No jumper in (J1) (= jumper removed)
= display in °C

Jumper in (J1) (= jumper plugged in)
= display in °F

2 Adjustment instructions for the Speed Selector PCB

2.1 General

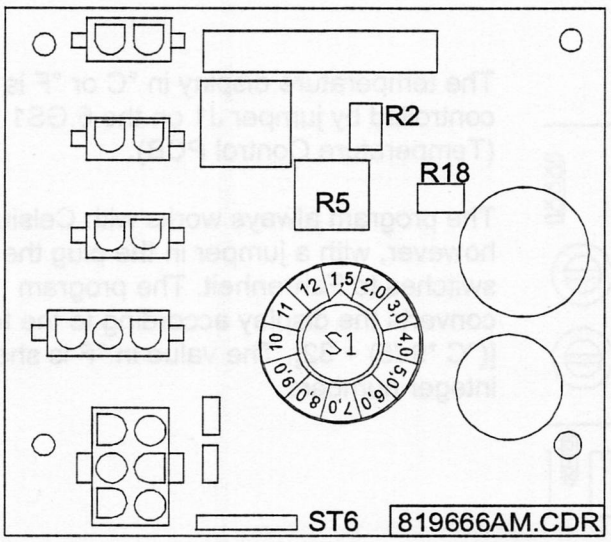


520303KM.CDR

The Speed Selector PCB is used for the triggering of the Papst Variodrive Compact Motor F7.0430.8295.0. It has been designed for combination with this motor and to provide the speed control for the drive of an NDT-M eco. A 12-fold step switch (S1) on this PCB allows set-up of the speeds for the processes 1.5 min to 12 min.

The steps are provided by fixed resistors, and their voltages can be connected by means of a step switch. In order to adjust the voltages at these resistors the potentiometers R2 and R18 have been provided on the Speed Selector PCB. These potentiometers must be adjusted. The adjustment must be made for the 1.5 min process and for the 12 min process. Thus all the other processes are adjusted as well by means of the fixed resistors.

2.2 Adjustment



The adjustment of the two potentiometers R2 and R18 can be made in the NDT-M eco. The motor speed can be determined by a revolution counter. A better solution is to use a digital frequency meter which can be connected on the service plug ST6. The motor provides a frequency which is the ACTUAL value and corresponds to 6 times the value of the mechanical revolution frequency.

So the display of the frequency meter corresponds to the motor speed / 10 (U/min).

If the display is not correct, connect the meter via a capacitor. For adjustment proceed according to the following sequence:

- Pot R5 on left hand stop
- Switch S1 in position 1.5 min
- Adjustment of pot R2 on speed of the motor in the speed table (page 6.6/3)
- Switch S1 in position 12 min
- Adjustment of pot R18 on speed of the motor in the speed table (page 6.6/3)

As an alternative to the speed adjustment by number of revolutions, the voltage value of the table can be adjusted by means of a digital voltmeter. However, in this case the motor must be connected. The motor speed or the film feed speed should then at least be checked for one of the adjustments.