

Technical Bulletin

K3000 Control Panels Replacing the Con.05 Controller PCB

TB 1018

The K3000 range of control panels is based around a 4-zone controller PCB and this is expanded by the addition of 4 and 8 zone interface cards.

The main controller PCB is referred to as a CON05 PCB and is available in four formats;

1. Kentec part number S259S - for K3002 (2 zone) panels only
2. Kentec part number S276S - for K3002 (2 zone) panels with zone test and disablements.
3. Kentec part number S250S - for K3000 panels up to 12 zones
4. Kentec part number S261S - for K3000 panels of 16 zones or greater.

Care should be taken when ordering replacement PCBs to ensure that the correct CON05 replacement is requested.

Although both printed circuit boards are identical, each is populated with components only to be suitable only for the panel format required.

Since the launch of the K3000 range of panels, the CON05 PCB has undergone some PCB issue revisions. The current PCB issue is Issue 08. This issue reference is given on the PCB screening, located near the bottom of the circuit board, just right of the horizontal centre.

For larger K3000 panels, there is a common reset line joining the CON05 PCB with the 8 zone expansion cards. This "hard wired" connection is made by linking the "R" terminal on the CON05 to the "R" terminal on the 8 zone expansion cards.

On older issue CON05 PCBs, the "R" terminal location is the 5th terminal from the left side of the CON05, in the section labelled "Remote Control". However, on the current issue (Issue 08) PCB, the R terminal has been moved to the most right hand terminal position.

The position previously occupied by the R terminal is now labelled "RR" (remote reset) and is a buffered input to the panel from a remote reset control.

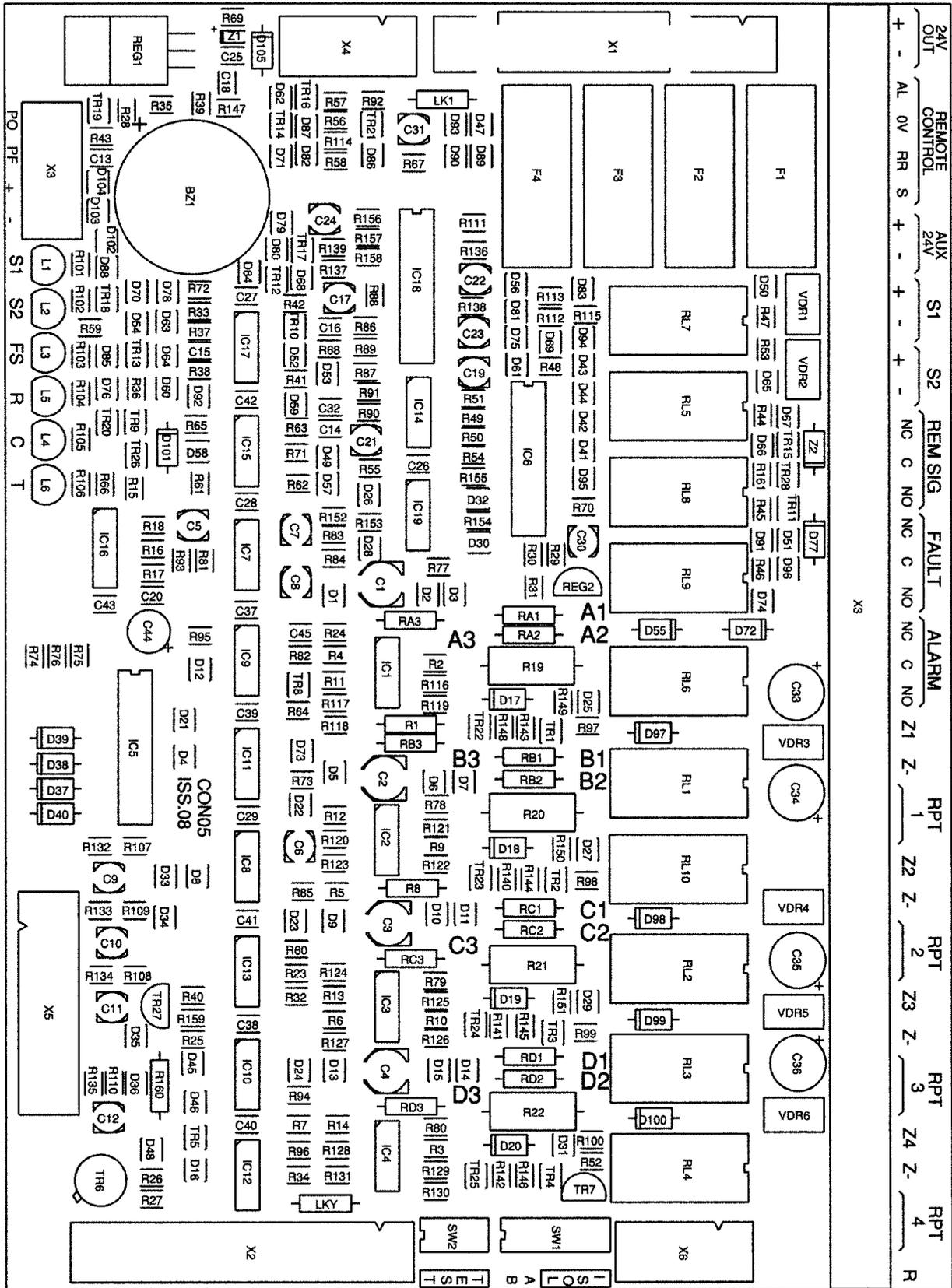
If it is necessary to replace an old issue CON05 PCB with the current issue PCB, care should be taken to ensure that the "R" terminals are linked on all PCBs. Because the R terminal has been moved to the right hand location, it is a common mistake to connect the CON05 "RR" terminals to the 8 zone PCBs "R" terminals.

Connecting the CON05 "RR" terminal to the 8 zone cards "R" terminals does not result in any damage being sustained, however it does mean that the panel locks in a permanent reset state if the front panel System Reset is pressed. This is evident because all zone LED indicators are illuminated permanently when the reset is pressed and can only be cleared by removing the panel power.

In the event that the CON05 is changed and the panel then fails to reset from a fire condition, check that only the terminals labelled "R" are joined. If necessary, re-route the linking wire from the Remote Control position to the right hand "R" terminal on the CON05 Issue 08 PCB and ensure that the panel will then reset from a fire condition on all detection zones.

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'R' Terminal