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Important Changes to the GSL-1/3, ICS Three, Stair-Lift Controller Circuits

Recent changes to the GSL-1 and GSL-3 controllers may cause some confusion when troubleshooting these lifts. The following information outlines the changes to the controller design to accommodate the new electromagnetic and radio emissions Filtering circuit (EMI). For further details, refer to the electrical drawings supplied with the lifts. These units began production around July 1st, 1997 and included a further revision in August 1997, to include a coil or choke in the motor drive circuit.

The most noticeable difference in the new controllers is the larger sized contactors, identified as KB and KC. These are now placed in the DC voltage supply to the motor instead of the AC side in previous designs. The Motor Brake is also wired through the KC contactor now. Unlike previous designs, **both** KB and KC activate when a direction paddle is pushed. On the previous system, KC remained activated while only KB closed when a motor run command was received.

Another major difference on these controllers involves the upper final limit or UFL indicator on the Drive PCB. This indicator will not come on until a command to travel is received. This is an important change to the troubleshooting indicators, please make note of it.

During tests of the new controller circuits a smoother type of operation was noticed. Less clunking and relay chatter was heard. You will also notice that the EMI Filters are being supplied again. We recommend that they be left in place and connected in the circuit on these lifts.

