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E30 Late Model SI Board Rebuild Guide

Thank you for purchasing our late model E30 SI board rebuild kit. This will very likely¹ allow you to restore the functionality of your late model SI board by replacing aging and commonly faulty parts. There is a second document (Component Location Reference or **SI_Late_CLR**) that shows the locations of each component which can be found on our website at [URL HERE].

Included Parts

The parts that are included in the kit are shown in the table below. The column on the right shows what color the components are labeled as on the CLR document.

Reference	Qty	Value	Tolerance	Voltage	Color
BT1,BT2	2	3V			
C2,C4,C12	3	100u	20	16	Orange
C11	1	10u	20	16	Orange
C13	1	47u	20	16	Orange
C15	1	68u		10	Orange
Q11	1	BC327-16			Blue
Q12,Q17,Q19,Q21,Q22,Q23	6	BC337-25			Blue
Q13	1	BC337-16			Blue
Q14	1	BC547B			Blue
Q15	1	BC557B			Blue
U5	1	LP2950-5.0_TO92			Green

¹There is a possibility that you will need a new PCB in the event that your batteries have leaked and destroyed your original board. Also sometimes the board may appear to be functional but have hidden damage in the form of corroded traces which can cause issues.

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Tools and Skills Required

At a minimum you will need basic soldering/desoldering skills. If you have no prior experience with soldering, watch a few instructional videos online before attempting on an original MotoMeter or VDO board as they can be easily damaged if you are not careful. If you have spare damaged SI boards to practice on this is ideal for first timers.

Tools:

- Soldering Iron
- Solder
- Flux
- Soldering “Helping Hands” or other device for holding the board while you hold the iron
- Desoldering Pump (highly recommended)
- Desoldering Wick (optional)

Installation Tips

- Take note of the locations and orientations of each component as noted on the CLR, especially the orientation of the capacitors. Installing one of these backwards can result in the capacitor rupturing causing potential damage to the board.
- Only remove and install one component at a time to reduce possible confusion of different parts as many look physically identical but are not electrically identical.
- Be careful with original MotoMeter or VDO Printed Circuit Boards (PCBs). Pads and traces can easily lift from the board and become damaged which can be difficult to repair.
- Ideally, you can order a brand new PCB from us if you don't want to risk damaging your original SI board. This does require every component to be transferred over from your existing board but will yield much more reliable end results and lasting functionality. Find new SI boards at reansengineering.com/product/e30-si-board-pcb-late-model