

# Technical Bulletin



<b>DP02</b>	<b>TB0034-2009</b>	<b>Elan Motorsports Technologies</b>	
<b>From:</b>	Chip Lewis		
<b>Subject:</b>	<i>ECU Failures</i>	<b>Date:</b>	<b>May 12th, 2009</b>

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## Attention all Elan DP02 teams

EMT has seen several failed ECUs over the last few months. We have worked with Life Racing to diagnose the problem, and generate a solution. The problem appears to be related to reverse voltage generated by the starter motor, during cranking. The high frequency, reverse voltage is damaging the ECU's chip that stores the engine map, rendering the ECU useless.

Life Racing has requested two modifications to the DP02 electrical systems. The first modification is the relocation of the starter solenoid wires to a shielded, separate harness. Relocating these wires should isolate any noise that may be inductively picked up by other wires in the main harness. The second request is that an "isolator" be placed on the starter. Race Proven, our starter manufacturer, has stepped forward with a recommendation of installing a diode on the starter to prevent reverse voltage making its way into the main wiring.

Life Racing has agreed to repair, at no cost, any ECUs that fail in cars that are fitted with the two recommended changes. If the ECU fails in a car that does not have the updates the team will be responsible for the repairs.

To get your starter updated, please contact:

Alex Calvo  
Race Proven  
2255 Industrial Blvd.  
Waycross, GA 31501  
(912) 285-9505

To purchase the solenoid harness please contact:

Brian Sakata  
Sakata Motorsports Electronics  
1217 N. Patt St.  
Anaheim, CA 92801  
(714) 446-9473

If you have any questions please contact <mailto:dp02@elanpower.com>.