

Technical Bulletin



DP02	TB0019-2007	Elan Motorsports Technologies	
From:	Chip Lewis		
Subject:	<i>ECU Mapping Upgrade</i>	Date:	August 6th, 2007

Attention all Elan DP02 teams

EMT will be upgrading all DP02 ECUs from the 2007 Mosport race forward. The new engine map, **IMSA Lites Rev. H**, will supersede the current engine map, IMSA Lites Rev. F. The new engine map will include the following functionality:

1. **Closed Loop Lambda Control** - Closed loop control will enable a car with the optional lambda sensor to run at the optimum air-fuel ratio under varying conditions. The optional sensor is part number PSS-0031. The ability for the ECU to compensate on it own will provide more consistent engine performance.
2. **Flatshift** – The programming will support the connection of the optional flatshift kit, which will allow for upshifts that do not require the driver to lift the throttle (Not legal for IMSA Lites, but legal for SCCA CSR). The flatshift kit part number will be provided in a later bulletin.
3. **Starting** – Revised starting algorithm to help with starting cars at lower engine speeds.
4. **Transient Fueling** – Revised algorithm for acceleration fuel, which will improve throttle response.
5. **Corrections** – Some sensor corrections have been revised to provide better failsafe operations.
6. **Logbook** – A logbook will be generated by the ECU, and will be accessible by the competitors in the future.

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