

Launch Control Settings and Operation

The 941 and 967 ECUs use their Barometric Pressure inputs to both measure Barometric Pressure and to initiate the Launch Control function. The Launch Control function is the application by the ECU of an alternative RPM Limiter for a programmable period of time. The function allows the driver to apply full throttle while the Launch function is operating, without the engine speed exceeding the Launch Limiter. When the voltage at the ECU pin measuring Barometric Pressure is at 2.5 V or below, the ECU is in Launch Control mode and the Barometric Pressure reading is in default. At all other times, the ECU is measuring Barometric Pressure

Normally, a momentary action switch is incorporated into the wiring as shown. This switch is used to activate the Launch function. A rotary, eight-position switch will need to be incorporated into the system in order to select a "Launch Position". This switch, operated by the driver, selects any one of eight Launch Limiter / Duration modes. These are available from MBE Systems Ltd

When the Launch Limiter Switch is pressed, the Barometric Pressure input goes to a default value, and the ECU enters Launch mode. The ECU remains in Launch mode for the programmed period of time after the Launch Switch is released

The rotary Launch Position Switch selects which of the eight settings to apply to the Launch mode depending upon the voltage at the switch. Using the Launch Position Setup menu, the voltages at the switch are converted into eight "positions". When using the MBE supplied Launch Switch, the settings will be as follows:

LaunchSector1Lo	0.20	LaunchSector1Hi	0.39
LaunchSector2Lo	0.51	LaunchSector2Hi	0.71
LaunchSector3Lo	0.80	LaunchSector3Hi	1.00
LaunchSector4Lo	1.10	LaunchSector4Hi	1.29

LaunchSector5Lo	1.39	LaunchSector5Hi	1.61
LaunchSector6Lo	1.71	LaunchSector6Hi	1.90
LaunchSector7Lo	2.00	LaunchSector7Hi	2.20
LaunchSector8Lo	2.29	LaunchSector8Hi	2.51

If you are using anything other than an MBE Launch Switch Assembly, these values may need to be altered to suit

Once the Launch Position setup is complete, the Launch Settings can be set. Under each Launch Position there is a setting for a Launch Limiter Soft, Launch Limiter Hard and a Launch Timer. The Launch Limiter Soft will cut every second spark; the Launch Limiter Hard will cut all sparks. The Launch Timer is the period of time in seconds, AFTER THE LAUNCH SWITCH IS RELEASED, when the ECU reverts back to non-launch operation. Always set the Launch Limiter Hard to be at least 1 rpm higher than the Launch Limiter Soft

The Analog Input, Lower Limit for Barometric Pressure (941 pin 02, 967 pin 28) must be set to 10 mB, to ensure correct operation



