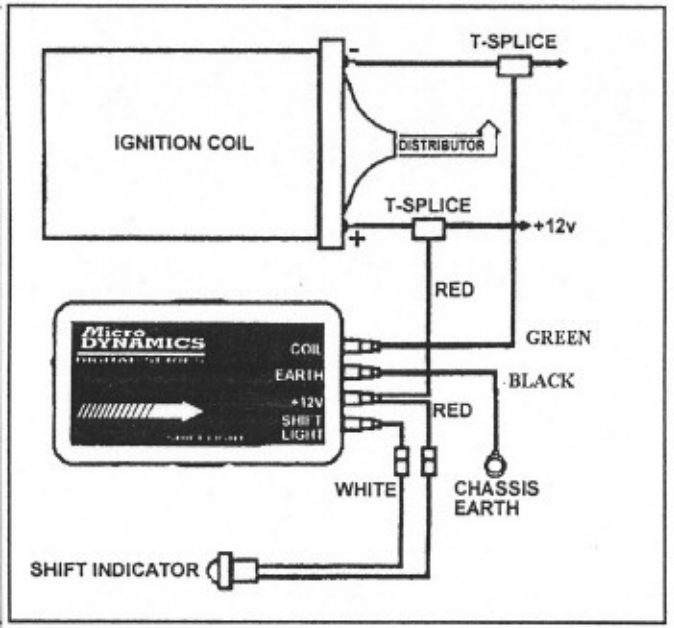
# Micro DYNAMICS

DIGITAL SERIES

## Digital Shift Light
## DSL 1

## INSTRUCTION LEAFLET




Thank you for choosing a quality **MicroDynamics** product.

The **MicroDynamics Digital Shift Light** provides the driver with a visual indication of when to change gear to extract the best performance from their engine without the distraction of watching the tachometer. This device is microprocessor controlled for accuracy and reliability and contains an integral ultra-bright shift LED as well as providing an output to drive the ultra-bright shift indicator supplied or any other preferred visual or audible device.

The system works on all negative earth contact breaker ignition systems, opto breaker systems and most transistorised and ECU controlled ignition systems. It can be adjusted to any engine speed from 1,000 sparks-per-minute to 40,000 sparks-per-minute (e.g. 500 RPM to 20K RPM 4 CYLS).

### Installation Procedure

Mount the Digital Shift Light unit onto a part of the vehicle's bodywork within the driving compartment. If the external shift indicator is not to be used then position the unit such that the integral LED is clearly visible by the driver.

Secure using either the two #6 screws supplied (a 3mm hole will need to be drilled for each) or the double sided adhesive pads and connect the BLACK wire to a good EARTH using the #10 screw, first drilling a 4mm diameter hole. Select the two wires which connect to the ignition coil and crimp a blue T-splice connector on the positive coil wire (+12V) and the GREEN wire to the negative coil wire (-) see Fig 1.

If the external shift indicator is to be used then drill a 14mm hole through the instrument panel where the ultra-bright shift indicator is to be mounted. This should be in a position, which is directly in front of the driver and clearly visible. Poke the LED through the hole from the back of the panel then clip the bezel on to the LED. Push the bezel and LED assembly back into the hole. Connect the RED and WHITE wires of the indicator to the appropriate RED and WHITE wires of the Digital Shift Light unit.

If an alternative indicator is preferred then connect the positive side of this device to the short RED wire and the negative side to the WHITE wire.

### Ballast Resistors

If the ignition system to which the Digital Shift Light is to be connected incorporates a ballast resistor connected to the positive terminal (+) of the coil, attach the long red wire of the Digital Shift Light to the ignition switch side of this resistor and not the coil side.

### Setting up

To set the Digital Shift Light, first decide at what engine speed gear shifting should occur to gain maximum acceleration. Start the engine, then press in and hold the push-button switch until the red LED stops flashing and remains lit.

With the button still pressed in, use the throttle to set the engine speed to half your required shift speed. As soon as the engine speed is stable at half the shift speed release the button. The Digital Shift Light will measure then engine speed immediately the button is released, double it and store it into memory. This setting will not be lost even if the battery is removed from the vehicle for long periods. The setting can be re-adjusted again to any engine speed at any time by repeating this procedure.

Now when the engine is revved and the shift speed is reached both the integral LED and the shift indicator will illuminate and remain lit until the engine speed drops back below the shift speed.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