

SPEED SHIFT

SINGLE COIL

10SS01

3 MACKENZIE WAY
MANOR ROAD
CHELTENHAM
GLOS GL51 9TX

T: +44 (0)1242 260656 F: +44 (0)1242 578069

Email: info@omextechnology.co.uk

www.armtech.co.uk



The Speed Shift works on most 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 20,000 RPM 4 Cylinders).

INSTALLATION PROCEDURE

1. Mount the clutch switch (supplied) above the clutch pedal, as shown in Fig 1. Using two nuts and washers, lock the switch into position such that the switch loses contact with the pedal itself when the pedal is depressed to its halfway position. The clutch switch must have good electrical contact with the vehicle's chassis EARTH.

2. Using the self-adhesive pads on the underside of the unit, securely mount the unit on top of the dashboard directly in front of the driver with the LEDs and push buttons facing the driver.

3. Using the wires and connectors provided, with the ignition turned off, connect the Speed Shift to the coil as follows;

GREEN To a good earth point near the coil
RED To coil positive (or, if this is not available, to any positive feed that is switched by the ignition).
BLACK To the coil negative (-)

BALLAST RESISTORS

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

SETTING UP

1. **Rev Limiter** - Start the engine. Press in the push-button switch labeled 'Set Rev Limiter' and hold. When the red LED stops flashing and remains lit, Hold the engine to half your required maximum speed, then release the button. The Speed Shift will immediately double and store this speed it in its memory.

2. **Shift Up Light** - To set the Ultra-bright red Shift-up light, start the engine. Press in the push-button labelled 'Set Shift Up' and hold. When the red LED stops flashing and remains lit. Hold the engine speed to your required shift up point (actual speed not half speed), then release the button. The Speed Shift will immediately store this speed it in its memory.

3. **Shift Down Light** - To set the Ultra-bright green Shift-down light, start the engine. Press in the push-button labelled 'Set Shift Down' and hold. When the green LED stops flashing and remains lit. Hold the engine speed to your required shift down point (actual speed not half speed), then release the button. The Speed Shift will immediately store this speed it in its memory.

4. **Full Throttle Gear Shift** - Start the engine. Press in the pushbutton switch labelled 'Set Gear Shift' and hold. When the green LED stops flashing and remains lit. Hold the engine at a speed halfway between the engine speed which is normally used to pull away from the start-line and the engine speed at which changing gear normally takes place, then release the button.

If the clutch pedal is now pressed when the engine speed is above the Gear Shift speed, the Speed Shift will assume that the driver is attempting to change up a gear under full throttle. It will therefore introduce a secondary rev limit which will be set to the exact speed at which the engine is running when the clutch pedal was pressed. This allows the driver to safely change up gear without lifting off the throttle pedal. If the clutch pedal is pressed when the engine speed is below the Gear Shift speed, the Speed Shift will assume that the driver is not changing up but preparing to start the engine. The Speed Shift will not introduce this rev limiter as it may hinder acceleration off the start.

5. **Settings** - All settings can be re-adjusted at any time by repeating the above procedure. These settings will not be lost if the battery is removed from the vehicle for long periods of time.

WIRING DIAGRAMS

