REV LIMITER
WITH LAUNCH CONTROL

OMRLCLCT

INSTALLATION AND USER INSTRUCTIONS

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EUROPEAN TYPE APPROVED V3

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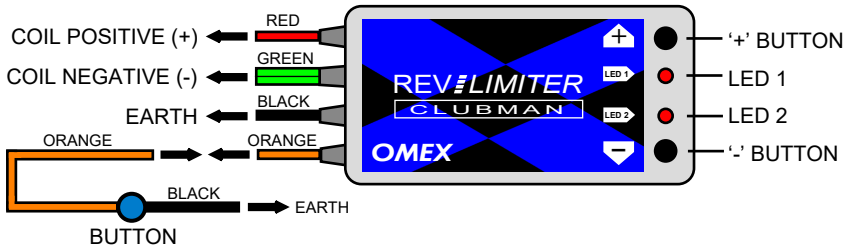
REV LIMITER

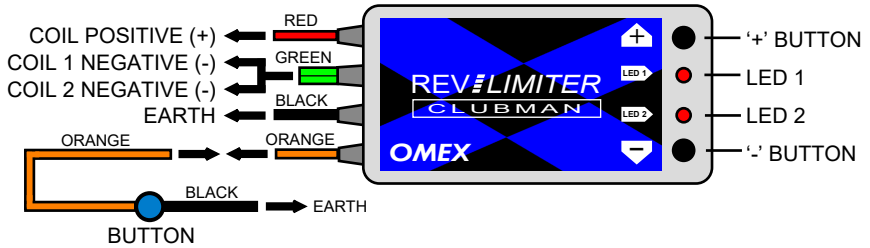
Please ensure that you read this manual thoroughly before you install this unit. In conjunction with this Rev Limiter, we recommend the use of a high quality shift light, such as the Omex Shift Light Pro or Sequential.

This Rev Limiter is suitable for most 4-stroke petrol engines and most ignition types, but not capacitor discharge (CDi) systems or positive earth vehicles. It should only be used to limit engine revs, never a vehicle's road speed.

Single coil with distributor ignition setup



4 cylinder twin coil wasted spark distributorless ignition setup



INSTALLATION

Ensure that the ignition is turned off before starting installation.

Remove the backing from the adhesive pad on the back of the unit and mount it to a clean, flat, grease-free surface. **Keep the unit away from hot or exposed areas. Ensure that the unit and all wires are kept as far as possible from the HT parts of the ignition system.**

The unit is connected to the engine using the attached colour coded wires and the supplied cable connectors.

GREEN WIRES **Single coil** - Connect both wires to the coil negative (-) terminal. **Twin coil** - Connect one wire to the coil negative (-) terminal on each coil.

RED WIRE Connect this to the coil positive (+) terminal. If this is not easily accessible then this wire can be connected to any positive feed that is switched by the ignition switch. Some positive feeds only stay on for a couple of seconds after the ignition is switched on, ensure that your feed does not do so.

BLACK WIRE Connect this wire to any good electrical connection on the car bodywork. It is essential that a good quality connection is made.

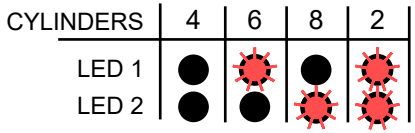
Keep wires clear of hot or rotating parts.

SETTING UP

The two buttons and LED indicators allow you to set and control all the functions on your Rev Limiter Clubman. During manufacture, the unit is programmed to the most common settings. These may be changed by the following procedures:

SETTING THE NUMBER OF CYLINDERS

During manufacture, the unit is set to four cylinders. To change this, turn the ignition to the 'off' position. Press and hold down the '+' button. Whilst still holding the '+' button, turn the ignition on, **but do not start the engine**. The two LED indicators situated between these buttons will show the cylinder setting (see table below). Let go of the button.



For four cylinder twin coil wasted spark distributorless vehicles ALWAYS set the number of cylinders to two

To change the cylinder setting, press and release the '+' button (or '-' button). The number of cylinders will go to the next (or previous) setting. To exit from Set Cylinder mode, turn the ignition off or start the engine.

Changing the number of cylinders automatically Resets the rev limit to 6,000 RPM

SETTING HARD / SOFT CUT

The unit is equipped with either a 'hard' or 'soft' cut - it is set to '**soft**' at the factory. On soft cut, the unit will begin to gradually limit engine power **200 RPM earlier than the set limit**.

To change the setting, switch the ignition to the 'off' position. Press the '-' button and keep it held down whilst turning on the ignition, **but do not start the engine**. LED 2 will light, indicating that soft cut is set. Release the button. To change to hard cut, press the '+' button LED 1 will light. To change back to soft cut, press and release the '-' button. To exit the Hard/Soft mode, turn the ignition off or start the engine.

SETTING THE REV LIMIT

The rev limit can be increased or decreased in steps of 100 RPM, allowing for an extremely accurate rev limit, irrespective of tachometer error. **The unit is set to 6,000 RPM during manufacture.** To prevent accidental change of the rev limit, the unit must be put into 'set rev limit' mode. To do this, turn the ignition on - **but do not start the engine** - then press and hold both buttons. Both LEDs will flash briefly. Release the buttons

The '+' button will increase the rev limit by 100 RPM each time it is pressed and released. LED 1 will flash to confirm this.

The '**-**' button will decrease the rev limit by 100 RPM each time it is pressed and released. LED 2 will flash to confirm this.

When the unit reaches its maximum or minimum possible setting, both LEDs will flash. When you have finished, either start your engine (the new setting will be fully operational) or turn off the ignition.

For example - The rev Limiter has a factory setting of 6,000 RPM. So, if whilst in 'set' mode, the '+' button is pressed 10 times (i.e. + 1,000 RPM), the new limit will be 7,000 RPM.

The Maximum Rev Limit is 20,000 RPM (4 cylinder), 12,000 RPM (6 cylinder), 10,000 RPM (8 cylinder) and 20,000 RPM (2 cylinder).

The Minimum Rev Limit is 1,000 RPM for all number of cylinders.

RESETTING THE REV LIMIT - in order to provide a reference point, you may wish to reset the unit back to 6,000 RPM and the launch limit to 5,000 RPM. To do so, switch the ignition to the 'off' position. Press and hold down both buttons, then turn the ignition on, **but do not start the engine**. Both LEDs will flash twice to show the rev limit has been reset. Release the buttons and the unit will automatically enter into the 'set' mode (see previous page).

LAUNCH CONTROL

INSTALLATION

The push button may be mounted anywhere but in the majority of applications the best position is on the steering wheel within easy reach of the driver's thumb. It is essential that the wires have enough slack in them so that they do not become tangled as the steering wheel is turned from lock to lock.

SETTING UP

To set the launch limit turn the ignition to the 'off' position. Press and hold down the launch button. Whilst still holding the launch button turn on the ignition, **but do not start the engine**. The LED indicators will flash three times to confirm this has been done. Release the launch button. The '+' and '-' buttons can then be used to increase or decrease the launch rev limit. When the launch rev limit reaches its maximum or minimum (1,000 RPM) possible setting, both LEDs will flash. When you have reached the required setting either start the engine or turn the ignition off.

LAUNCH CONTROL USE

Just before leaving the start line it is necessary to bring the engine up to 'launch' speed. Press and hold the launch button (both LEDs on the rev limiter will light to confirm this). Increase the engine RPM so that it just hits the launch rev limit. Do not use more throttle than is necessary as this can cause the engine to over fuel. When ready to leave the start line, keep the button pressed and use as much throttle as is required. When the wheels have stopped spinning let go of the button and drive as normal.

Do not hold the engine on the launch rev limit for more time than is required for your launch. Leave several minutes before using again to avoid overheating of the rev limiter.

Units damaged due to misuse can be detected and warranty voided

CUSTOMER CARE

Attention. Within the EU, used electrical and electronic equipment should not be mixed with general household waste; it must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling. Private households may return their used electrical and electronic equipment to designated collection facilities free of charge. If the product is used for business purposes and you want to discard it, small quantities may be taken back by your local collection facilities. Please contact your local authority for further details. Outside of the EU, please contact your local authority for advice.