Micro DYNAMICS

VisiScale SmoothCut Over-Rev Limiters
RL4, RL6, RL8 and RDS

VisiScale Rev Limiter Specifications				
Unit	RL4	RL6	RL8	RDS
No. of Cylinders	4	6	8	4
RPM Range - Low	6000	5000	4500	3500
RPM Range - High	9000	8000	7500	7000

VisiScale SmoothCut Rev Limiters are compatible with all inductively-based single coil contact breaker or electronic ignitions, but not compatible with any C.D. ignition. They include high-stability, low-drift circuitry that accurately holds the set rpm over a long period.

IMPORTANT - All VisiScale Rev Limiters are fully encapsulated for reliability and protection from moisture and vibration. This renders them irreparable if damaged. Mistakes in connection - particularly incorrect coil connections - may result in permanent harm to the circuitry. Autocar cannot accept responsibility for damage so caused and customers are strongly advised to check that existing coil connections are correctly marked before attempting to connect this unit.

NOTE- Electronic Over-Rev. Limiters can only limit the maximum engine speed when the engine is being driven under it's own power. The unit can not prevent engine over-speed caused by the engine being driven by the wheels or other inertia effects.

Fitting.

1. Attach unit to the vehicle's bodywork in a position away from heat and vibration using the screws and washers supplied.

2. Check that the "+" terminal of the ignition coil is wired to the ignition switch and "-" terminal is wired to the distributor.

3. Install the unit following the wiring diagram shown in Figure 1.

4. The Brown wire is connected to the Coil "+" terminal on all installations whether or not a Ballast Resistor is fitted.

Rev limit adjustment is be carried out by turning the knob located on the front of the box. Turn clockwise to raise limit and anticlockwise to lower. The Adjustment Range is marked on adjustment scale. Accuracy is +/- 4% full range.

Contact Bounce / Multi-Firing

The VisiScale rev limiters assess engine RPM by measuring the period between ignition events. If the ignition system is experiencing contact breaker bounce or a similar ignition system problem the rev limiter will interpret the multiple-firing as additional ignition events and trigger the rev limiter at engine speeds lower than the one set. Surface irregularities on flywheel-triggered ignition systems can cause similar problems.

An ignition system that creates false ignition events will produce engine problems and should be corrected. The best solution is to fit a Lumenition Magnetronic or Optronic ignition system which removes the contact breakers, eliminates maintenance and promotes smooth engine running.
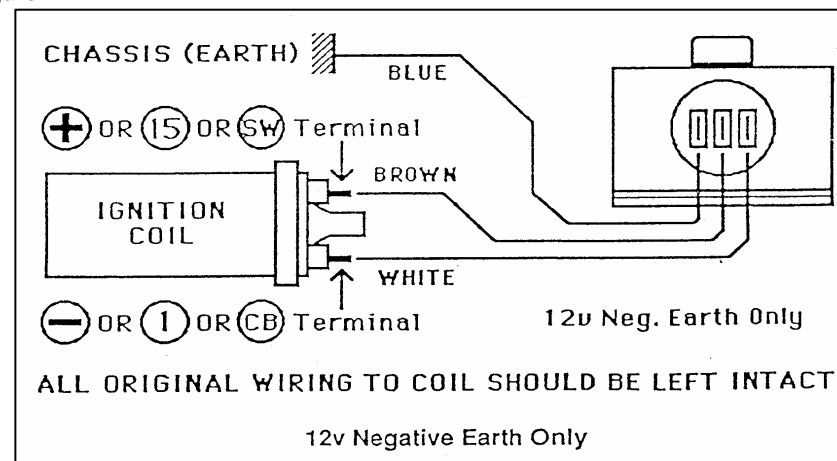
Alternatively the Micro Dynamics Alpha Plus Ignition system may be fitted which includes contact bounce suppression circuitry as well as the SmoothCut rev limiter.

Hints & Tips For VisiScale Users

Micro Dynamics VisiScale Over-Rev Limiters are very reliable units. Operational problems are usually only caused by poor installation or incorrect wiring connections. If fitted correctly your VisiScale unit will give long and trouble-free service. The following information will be of assistance to users who are experiencing operational difficulties with a VisiScale unit.

Trouble Shooting Guide	Solution
Engine will not start	Incorrectly wired
	Earth (Blue Wire) not connected
	Incompatible (CD) ignition on vehicle
Misfire at all engine speeds	Earth (blue) not connected
	Incompatible (CD) Ignition on vehicle
Rev-limit at lower revs	Supply (Brown wire) not connected
	Limit set for a different number of cylinders
	Contact bounce/multi-firing
"Woolly" rev-limit point	Supply (brown wire) not connected
Does not rev-limit	Limit set incorrectly
	White wire not connected
	Incompatible (CD) Ignition system on vehicle
Operates at wrong rpm	Incorrect unit for number of engine cylinders

Figure 1