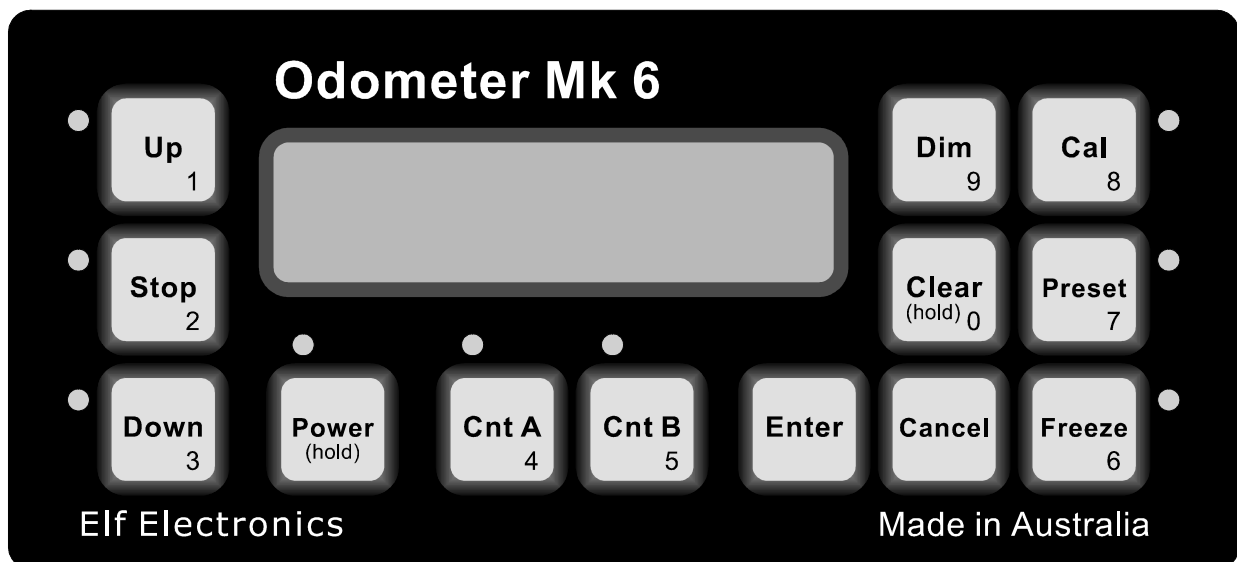


Elf Electronics

ODOMETER MK 6
OPERATING INSTRUCTION



OPERATION



Display is incremented by incoming pulses. It is active when the light beside it is lit.



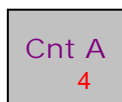
No change is allowed to the display or counters. It is active when the light beside it is lit.



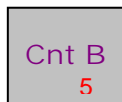
Display is decremented by incoming pulses. It is active when the light beside it is lit.



There are no switches at the rear of the Odometer. Power is applied on and off by pressing **POWER** for approximately one second. The word "hold" on the key will remind you of this. When the Odometer is "off" the light above is lit to indicate the Odometer is powered although not "on".



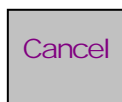
Enables Counter A to be displayed. It is current when the light above the button is lit. When counter A is active all the keyboard functions apply to counter A only. Counter B is continuing to update according to the settings when counter A was selected.



Enables Counter B to be displayed. It is current when the light above the button is lit. When counter B is active all the keyboard functions apply to counter B only. Counter A is continuing to update according to the settings when counter B was selected.



Press to indicate you want the current display to be your choice.



Press to abort the current action and go 'idle' mode.



"Freezes" the currently selected counter display while still counting the incoming pulses. The light beside the key indicates that you have the display 'frozen'. Press again to update the display and continue counting.



Press once. The previously stored 'preset' value is displayed. The light beside the key indicates that you are currently editing the preset value.

Note: When you press 'Preset' the keys with numbers in them become active number keys.

If no change is required, press **ENTER** to re-store the same number. If a change is required simply key in the new number. (The old number will disappear when you press the first key.) When the correct number is being displayed press **ENTER** to store the new preset number. If you key in the wrong number 'push' it off by keying in a string of zeros and then the correct number

CALIBRATION



Calibration should be done at a metered test run. Press **CAL** twice and then a number 1,2 or 3, say 1. The light beside the key indicates that the calibration procedure is current.

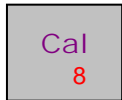
Note: When you press 'Cal' twice the keys with numbers in them become active number keys.

Calibration factor 1 is now associated with this vehicle. Drive the vehicle over the test run and stop at the end. The display will be showing the number of raw pulses counted. Press **ENTER** to tell the Odometer that you have completed the test run.

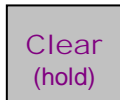
Key in the number you desire to see displayed for that distance e.g. for a 5 kilometer run you would key in '5.000'. *Note, however that the desired number may not be greater than the raw pulses counted.* After the desired number is on the display press **ENTER** again. The Odometer will calculate its own calibration factor; display for about 3 seconds and store it as calibration No.1.

Calibration for this vehicle is now complete. Use the same procedure to calibrate for any other vehicles.

TO RELOAD A CALIBRATION FACTOR



Press **CAL** once and then the number associated with that vehicle; the calibration factor will be displayed for about 3 seconds and then disappear. The Odometer MK 6 is now calibrated for use with that vehicle



Press this key to clear the current display to zero. You must keep the button pressed for approximately one second. The word 'hold' on the key will remind you of this

ADDITIONAL FEATURES

Several time saving features are activated by a combination of key presses. In each case the first key is 'Cal'. The second key is indicated by the number on it.

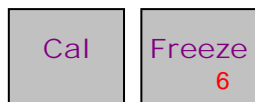
Pulse sender type selection.



Press **CAL** then **4** to see which type of pulse sender is currently in use. The display will indicate either 'GEN' or 'HALL'



Press **CAL** then **5** to select the use of a generator type pulse sender. The display will indicate 'GEN'.



Press **CAL** then **6** to select the use of a hall effect type pulse sender. The display will indicate 'HALL'

Self Test



The Odometer MK 6 has been programmed to test itself. If you suspect something is malfunctioning you may invoke the self test function and verify if any problem exists. To invoke the self test turn the power off; leave it for 10 - 15 seconds. Press (keep pressed) **CAL** then press (keep pressed) the **POWER** button. You will see 'SELF' on the display, release the keys.

The Odometer will display all zeros through to nines then flash the 9 indicator lights several times and then appear to sit and do nothing. At this point you should press all the keys one by one leaving **ENTER** for last. As you press each you should see the number on that key being displayed and in addition the **CANCEL** key will produce 'C' and **ENTER** will produce 'E'. The **POWER** key is omitted.

MOUNTING THE ODOMETER The Odometer is supplied with a swivel mounting bracket and ample cable to enable it to sit on the dashboard. Choose a position (if possible) where sunlight will not directly shine on the display. To ensure proper swivel action fit the nylon washers as shown in the diagram.

INSTALLATION This should be done by a licensed auto-electrician. The power/signal cable is connected as follows *unless* it is noted on the cable label:

First. Refer to the cable label. Follow the colour coding if present. If not use the adjacent information.	Cable 1	Cable 2	Cable 3	Use
	Blue	Brown	Blue	12V (Battery)
	White	Blue	Orange	12V (Battery)
	<i>Yellow</i>	<i>Yellow</i>	<i>Black</i>	<i>Not used</i>
	Red	Red	Red	Signal
	Green	Green	Green	Signal
	<i>Black</i>	<i>Black</i>	<i>Yellow</i>	<i>Not used</i>
	Brown	Orange	Brown	0V (Chassis)
	Grey	Grey	Grey	0V (Chassis)

If the vehicle is a model with electronic speedometer, find a convenient spot to tee off the signal wire feeding the speedometer. This varies from car to car. Reference to the electrical wiring diagram in the vehicle's workshop manual is essential.

If the vehicle has a mechanically driven speedometer you will need to use a "pulse sender unit". We recommend the use of VDO P/N K46005 which is compatible, low cost and reliable. Available from any "VDO" outlet or from us.

IMPORTANT INFORMATION

DO NOT ATTEMPT TO USE ODOMETER MK V CABLES ON MK 6 AND VISE VERSA.

If the Odometer "locks up" or shows a row what appear as "=" signs on power up, do the following factory initialise.

Switch off power. Press UP and keep it pressed and then press POWER. The word "CLEAR" should appear. Press CLEAR. The power led will be on. The Odometer is now ready to go. Must now re-calibrate.

□ For further information and/or phone support please ring (02) 4578 8592 or Fax (02) 4578 8604

Warranty: 12 Months
 Case not under warranty against deforming in heat.
 Freight to and from workshop is your cost.

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