



001777 LOW COOLANT LEVEL WARNING KIT

DESCRIPTION

The Low Coolant Level Warning Kit is designed to work in conjunction with the standard coolant bottle as supplied with your engine. If you are using another bottle than that supplied by Wilksch Airmotive Ltd (WAM), you will need to verify that this kit is compatible.

When the coolant drops below the minimum level the switch is triggered and the signal is displayed on the CI-Log Cockpit Module (CM). When the warning is displayed you should proceed immediately to the nearest available safe landing site and have the system investigated thoroughly by a competent person.

KIT CONTENTS

The kit contains the following items: -

ITEM	DESCRIPTION	QUANTITY
001542	Low Coolant Level Switch	1
001779	Switch Mounting Base	1
001778	Coolant bottle plug	1
	Coolant bottle plug wires	1
001783	Resistor	1

If any of the above items are missing, please contact WAM.

Not supplied is the wiring to/from the switch and the hardware necessary to affix the base.

FITTING INSTRUCTIONS

Insert the ends of the 001XXX wire into the 001778 coolant bottle plug and fit to the coolant bottle. The cut the wire in half to make the two connections. It is not critical which of these wires goes to which connection and they may be extended as required to reach the switch.

Decide on a mounting location for the 001779 switch base. This can be attached at any suitable position away from major heat sources such as the exhaust system. Mounting on the firewall near the coolant bottle has proven to be a suitable. Fit the base so that the switch is positioned vertically with the wiring coming in from beneath. This should prevent moisture from getting into the body. The base has many terminal positions to suit different applications and is supplied with crimp terminals to attach the wiring.

Wire up as per diagram below. The wiring diagram shows the switch terminal identification and this information is repeated on the switch body. Insert the finished terminals into the base from underneath, only four are used in this installation, ensuring that they are being placed into the correct slot. Now the 001542 switch can be pushed into the base.

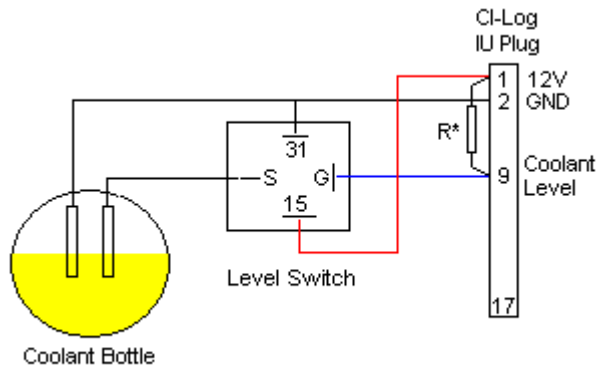


WIRING INFORMATION

Below is a suggested connection method for this system. Use any good quality wire of 24 gauge or above. If there is an alternative source for the 12V supply or ground then please feel free use whichever is more convenient. Any power source used for this system should have a lamp fuse or circuit breaker for protection. In the case below the existing circuit breaker/fuse for the CI-Log IU is used. This has proven adequate, but you may wish to add a fuse in the line from the IU to the relay for an extra level of protection.

The wire from IU pin 9 to G on the switch is the existing blue wire as supplied with your engine loom.

WIRING DIAGRAM



R* is the 001783 Resistor. The resistor legs are long enough to reach between pins 1 and 9 on the CI-Log Input Unit (IU).

TESTING

This can be carried out with coolant in the system by disconnecting the coolant bottle plug. There is a delay of around 30secs before the warning should appear on the CM. There is a similar delay when the plug is reconnected before the warning signal extinguishes. However it is recommended to test the system whenever the coolant system is drained. Sometimes dirt may have accumulated on the probes and can prevent the warning occurring. Please flush the coolant bottle and re-try the test.

If you have any questions or problems with your Low Coolant Level Warning system then please contact WAM for assistance.