

Replacing existing counters on BlendUp Tempests

BlendUp units with Tuthill digitisers (silver digitisers)

The Tuthill digitiser uses a separate 24v supply. The LC1 sensor voltage terminals are not used.

Replacing Pure/Anti-ice counter (passengers side)

Move the following wires

Wire number	From	Move To	Notes
CTR1	Existing counter (1)	LC1 (2)	Positive
1	Existing counter (2)	LC1 (1)	GND
A2	Resistor network. See note 1 below	LC1 (9)	CH2 SIG
776 See note 2 below	Existing counter (12)	LC1 (6)	CH1 SIG
D4 (if fitted)	Existing counter (7)	LC1 (3)	CH1 output
A4 (if fitted)	Existing counter (9)	LC1 (4)	CH2 output

Note 1

Locate wire A6 going to the existing counter terminal (15). Follow this to a resistor network close by and at this resistor network, locate wire A2. Remove wire A2 from the resistor network and connect it to LC1 CH2 SENSOR SIG terminal LC1 (9).

Note 2

Locate wire 776A on the existing counter terminal (12). Follow this wire to a resistor network close by and locate wire 776 at this resistor network. Remove wire 776 from this network and connect it to LC1 CH1 SENSOR SIG terminal LC1 (6).

Remove all other wires from the existing counter. Cut bare ends off. Tape up and secure all wires safely.

Turn on the ignition to power up the LC1 counter. Go into calibration mode (see user manual)

Set LC1 K1 K-Factor to 105 for initial calibration of the LC1

Set LC1 K2 K-Factor to 24 for initial calibration of the LC1

Carry out detailed calibration as per the LC1 manual

Note 3

The sensor voltage setting does not affect the operation.

Tape up any unused wires from the LC1 harness safely.

Replacing Premix counter. (drivers side)

Move the following wires

Wire number	From	Move To	Notes
CTR2	Existing counter (1)	LC1 (2)	Positive
1	Existing counter (2)	LC1 (1)	GND
778 See note 4 below	Existing counter (12)	LC1 (6)	CH1 SIG
W4 (if fitted)	Existing counter (7)	LC1 (3)	CH1 output

Note 4

Locate wire 778A at the Signet counter terminal (12). Follow this wire to a resistor network close by and locate wire 778 at this resistor network. Remove wire 778 from this network and connect it to LC1 CH1 SENSOR SIG terminal LC1 (6).

Remove all other wires from the Signet counter. Cut bare ends off. Tape up and secure all wires safely.

Turn on the ignition to power up the LC1 counter. Go into calibration mode (see user manual)

Set LC1 K1 K-Factor to 105 for initial calibration of the LC1

Carry out detailed calibration as per the LC1 manual

Note 5

The sensor voltage setting does not affect the operation.

Note 6

Channel 2 on the LC1 is not used. Go into the labels menu and delete the label for CH2

Tape up any unused wires from the LC1 harness safely.