

TWO YEAR WARRANTY

REDARC Electronics warrants to the original purchaser that the product(s) on the reverse side of this sheet ("Product") will be free, under normal use and maintenance, from defects in material and workmanship for a period of TWO YEARS from the date of purchase, subject to the conditions shown below.

1. Warranty

Unless otherwise stated in this warranty, Redarc Electronics will at its sole discretion either replace or repair any of the Product that is defective in material or workmanship within the abovementioned period without charge to the original purchaser.

2. Other Warranty

Subject to any terms implied by law, this warranty contains the whole of the Redarc Electronics' obligations and any distributor and the agents, officers and employees of such distributor and of Redarc Electronics are not authorised to vary or extend the terms of the warranty. The benefits conferred by this warranty are in addition to the conditions and warranties implied by applicable legislation conferring rights upon consumers, which apply only to the extent to which they may not by law be excluded.

3. Exclusions

This warranty shall not apply to, or include, any of the following:

- 3.1 Any defect or failure due to accident, misuse, abuse, movement of the Product to a new site, negligence, non-observance of any of the instructions supplied with the Product including the instructions on the reverse side of this sheet ("Operating Instructions") or local regulations on the part of any user, choice of location, improper installation, configuration or connection, or faulty power supply.
- 3.2 If the Product is installed, repaired or serviced by a person who is not a qualified auto electrician or electronics technician, or if non-approved parts have been fitted.
- 3.3 Failure to obtain proper maintenance for the Product or any associated equipment or machinery.
- 3.4 Failure to pay for the products in full or comply with Redarc Electronics' Trading Terms.
- 3.5 If the Product is used other than for any reasonable purpose for which it was manufactured, or is used in a way not specified by Redarc Electronics.
- 3.6 If the original purchaser sells, leases or otherwise parts with possession of the Product.
- 3.7 Deterioration due to normal use and exposure, including abnormal environmental conditions such as lightning strike, flood and extreme heat.
- 3.8 Any freight, packing and insurance expenses relating to transportation of the Product.
- 3.9 Any expenses relating to installation and/or removal of the Product.
- 3.10 Any damage, indirect or incidental, of whatever nature.

4. Limitations

- 4.1 Redarc Electronics is not liable for any consequential, indirect or accidental loss or damage or for any service not expressly provided herein (including without limitation liability for any loss or damage caused by a fault in the Product or its external wiring connections) and the liability of Redarc Electronics under this warranty is limited to the repair or replacement of defective material or workmanship by a qualified auto electrician or electronics technician, provided such person and work is approved by Redarc prior to commencement. Subject to **clause 2**, Redarc Electronics is hereby excluded to the maximum extent permitted by law from all other liability in respect of the Product.
- 4.2 While Redarc Electronics warrants, where applicable, that the Product is free from defects in materials and workmanship under normal use at the time of delivery, Redarc Electronics does not warrant that the Product will meet any user specific requirements or that the operation of the Product will be uninterrupted or error-free.

5. Owner's Responsibilities

- 5.1 Maintenance of the Product and associated equipment and/or machinery is the responsibility of the owner. The owner must retain evidence that proper maintenance has been performed on the Product by Redarc Electronics or a qualified auto electrician or electronics technician. Claims made during the warranty term will not be accepted if resulting from lack of maintenance rather than faulty material or workmanship.
- 5.2 The owner must operate the Product in accordance with all of the Operating Instructions.
- 5.3 Upon discovery of a fault the owner must return the Product to the distributor with full details of the nature of the fault. Removal of the Product must be done by a qualified auto electrician or electronics technician to ensure that the warranty remains valid. A written report describing the circumstances of failure must accompany the returned Product with proof of purchase which clearly shows the date of such purchase by the original purchaser.
- 5.4 If the Product is found to be working satisfactorily on return to Redarc Electronics a reasonable charge will be made for the cost of testing, packing and freight. The Product will be returned on receipt of the amount charged.

FREE TECHNICAL ASSISTANCE

REDARC

THE POWER CONVERSION SPECIALISTS
23 Brodie Road North
Lonsdale
South Australia 5160
Phone: 08 8322 4848
Fax: 08 8387 2889
Email: power@redarc.com.au
Web: www.redarc.com.au



Certified
Environmental
Management
CEM 20649
ISO 14001:2004
SAI Global



Quality
Endorsed
Company
QEC 5375
ISO 9001:2000
SAI Global

GCU Series 12V & 24V Glow Plug Timers.

INSTRUCTIONS

GCU12/24

The GCU-12/24 is a multi voltage, temperature controlled, glo control unit.

Make sure the time setting control (on side of timer) is turned fully anti-clockwise and wire the GCU-12/24 as shown over the page. The temperature probe is mounted via a convenient bolt somewhere on the engine block. The lamp output (blue wire) switches to earth when the timer is activated. The yellow wire switches the current to the glo-plug solenoid, NOT to the glo-plugs directly. To set the glow time period, turn the control clockwise a few degrees, turn on the ignition and observe the glow lamp, installed as per diagram over page. Repeat this process until the correct glow time is obtained. For hot starting, the time periods are greatly reduced.

GCU12/24D

The GCU-12/24D is a multi voltage, temperature controlled, dual solenoid glo control unit.

Make sure the time setting control (on side of timer) is turned fully anti-clockwise and wire the GCU-12/24D as shown over the page. The temperature probe is mounted on the engine block via a convenient existing bolt. The lamp output (blue wire) switches to earth when the timer is activated. The yellow and orange wires switch the current to the glo-plug solenoids, NOT to the glo-plugs directly. The secondary solenoid output is factory set to 60 seconds at cold and is activated when cranking begins. For hot starting, the time periods are greatly reduced. To set the pre heat time period, turn the control clockwise a few degrees, turn on the ignition and observe the glow lamp, installed as per diagram over page. Repeat this process until the correct glow time is obtained.

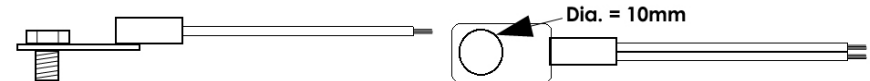
GCU12/24P

The GCU-12/24P is a multi voltage, temperature controlled, pulse after-glo control unit.

Make sure the time setting control (on side of timer) is turned fully anti-clockwise and wire the GCU-12/24P as shown over the page. The temperature probe is mounted on the engine block via a convenient existing bolt. The lamp output (blue wire) switches to earth when the timer is activated. The yellow wire switches the current to the glo-plug solenoid, NOT to the glo-plugs directly. The pulse time is factory set to 30 seconds at cold and is activated when cranking begins. For hot starting, the time periods are greatly reduced. To set the pre heat time period, turn the control clockwise a few degrees, turn on the ignition and observe the glow lamp, installed as per diagram over page. Repeat this process until the correct glow time is obtained.

IMPORTANT! 20 seconds must be left between adjustments or else the timer will compensate for hot plugs and reduce its next time cycle.

NOTES: The GCU Series is not water resistant. Mount the unit in a dry position and away from possible steam cleaning spray. The adjust hole may be plugged with a sealer if this is likely to be a problem. Water entry to the unit may cause erratic operation and may destroy plugs.



The temperature sensor supplied is bolted to the engine using any suitable existing 10mm mounting.

FREE TECHNICAL ASSISTANCE, contact Redarc Electronics
Ph (08) 8322 4848, Fax (08) 8387 2889
or Email power@redarc.com.au
Specifications are subject to change without notification.

