



Universal

Specialist in Rotating Electrics



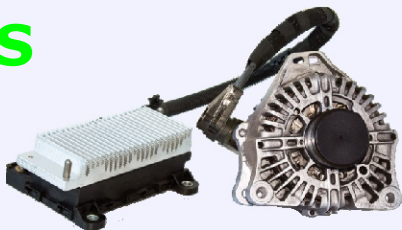
TECHNICAL BULLETIN 012

I-StARS Stop/Start, Toyota & Landrover alternators and Scania starters

Is it a starter?
Is it an alternator?
It's both!

I-StARS

**Integrated
 S Tarter
 Alternator
 Reversible
 System,**



The i-StARS starter-alternator replaces a standard starter motor/alternator set up. The engine is started immediately and silently thanks to the belt that permanently links the system to the crankshaft.

There are a number of benefits including:
 The engine is cranked more rapidly.

Fuel consumption is reduced, both on start up, normal driving (2-3%) and particularly in traffic (up to 15%).

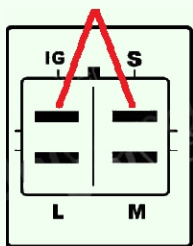
We have offered these units for a while, however recently we have noticed a marked increase in sales as the vehicles are reaching the age where the units are starting to fail.

Part numbers begin "UNC" and we currently have 5 part numbers (001-005) available fitting Citroen /Peugeot, Mercedes and Smart vehicles.

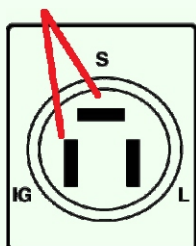
Toyota charging problems.

We have had an increasing number of phone calls about problems with Toyotas failing to charge. After following the standard procedure of checking connections, it appears that across the Toyota range there is an issue with losing the feed to either the "IG" (ignition) or "S" (battery Sense) terminals. IG should be 12V ignition live and S should be a permanent 12V feed.

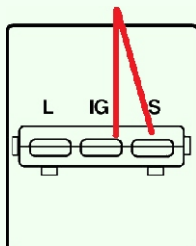
Loses feed here: Loses feed here: Loses feed here:



Plug 77



Plug 15



Plug 14

Landrover tensioner issues.



WARNING!
 REMOVED ALTERNATOR BEARING FAILURE.
 This vehicle application suffers with ignition switch problems. The switch must be checked or replaced prior to installation of the new starter motor. Failure to check or replace may cause the starter motor to continually engage, consequently it will eventually burn the starter motor out.

It has come to our attention that certain Landrover alternators are being returned with either damaged clutch pulleys or excessively worn and damaged bearings.

The vehicles and part numbers affected are the Discovery 3 2.7TD and the Range Rover Sport 2.7TD from 2005-2009, fitted with UNA2361 or UNA2364. When changing an alternator on these vehicles please inspect the clutch pulley for any damage and that it's functioning correctly.

If there is an issue it probably indicates that a vehicle tension fault needs rectifying before the fitment of the replacement alternator. This will now be covered by our latest WI information; WI-14 which will accompany each unit.

Volvo & Scania starter motor problems.

We already knew that Scania Commercial vehicles have starter motor and ignition related problems. Unfortunately we need to add another manufacturer to the list. We have had increasing numbers of Volvo UNS1115 "Bosch" starters coming back burnt out.

The last unit had been running for so long it had completely welded the contacts in the solenoid on top of other internal damage. This will now have a WI (warning information) attached to the part number.

WARNING!

This vehicle application suffers with ignition switch problems.

The switch must be checked or replaced prior to installation of the new starter motor. Failure to check or replace may cause the starter motor to continually engage, consequently it will eventually burn the starter motor out.

If this starter motor is returned under warranty in the above condition your guarantee will become void. **WI-1**



This part number joins the Scania commercial units UNS703 and UNS1441 which already have the WI tags attached. Things to look for are discolouration of the pinion, damaged teeth, heat "bubbling" on the body (labels), burnt terminals, rattling internals and that very distinctive burnt out smell.

Part numbers and picture are for reference only 12/2015

Universal Rotating Electrics Ltd Unit 18-20, Pembroke Business Centre, Gardiners Lane South, Basildon, Essex, SS14 3HY

Tel: +44 (0) 1268 662210 Fax: +44 (0) 1268 525323 Email: chris@universal.uk.com Web: www.universal.uk.com

Company Registered in England
 No. 6502763
 Registered address 2 Mill Road,
 Haverhill, Suffolk, CB9 8BD