



# Universal

Specialist in Rotating Electrics



## TECHNICAL BULLETIN 006

### Problematic, unusual and down right confusing!



### Ford ST Models



In technical bulletin 4 we spoke about the different alternators fitted to Mondeo ST220's. This time we'll look at the other ST models. Firstly the Fiesta ST150 has an alternator all on it's own; UNA2384. It has the usual 3 pin smart charge system, but is unique to this car.

Secondly is the Focus ST 2.5. This vehicle has a couple of options, either 120 or 150 amp units. Part numbers are UNA2554 for the 120 amp and UNA2317 for the 150 amp unit.

Lastly, one that catches many a parts person out is the Focus ST170. This again has it's own unique unit UNA2443 with 110 amp output and slightly different layout to the other ford 2.0 petrol units.



UNA2384



UNA2317/UNA2554



UNA2443

### When O.E. Numbers go wrong!

Firstly we must point out that this doesn't happen every day of the week, but when it does it can cause all sorts of problems. What are we talking about? Body swaps on rebuilt units. This is where a unit has been rebuilt in the past and due to damage of the existing body, it is swapped with a donor unit with different O.E. numbers. Of course in a few years time, when the customer requires another unit, they may well quote the numbers on the unit, which now relate to the donor and not the original.

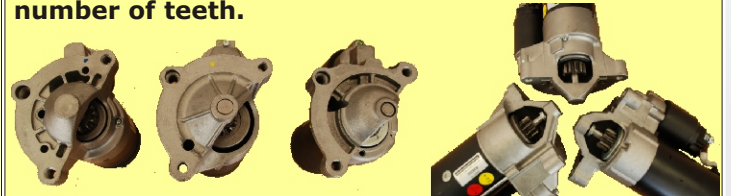
This is often found on plant machinery or tractors, especially where the unit is particularly old and the parts are harder to come by, so donor replacement parts are more common as new are just not available anymore. IF the rebuilder has done their job properly they will often put a row of X's across the old part number to show it has been reused.

Picture showing where numbers have been over-stamped and an alternative starter body has been used. Not all rebuilders do this, leading to part number confusion!



### "My starter looks different!"

This is one query we get very often. Be it different looking or different number of teeth. One particular unit where this happens more than most is UNS608. There are a number of different manufacturers such as Bosch, Valeo, Mitsubishi and Nippon Denso. Despite any uncertainty on whether these units do or do not interchange, they all do. The important part is the actual pitch of the drive NOT the size or number of teeth.



### Imported vehicles



Always an area of discussion and one that can either be very straight forward, or only rectified with the reconditioning of the customers unit. Certain vehicles and units are very simple. The Toyota Estima/Lucida starter motor UNS202 for example is a popular unit and one part number fits all models from 1990 to 1999.

Another simple to apply unit is on the Mazda Bongo. The alternator is part number UNA1413. Again one number fits 2.5D models from 1995 to 2003.

Unfortunately we also have more difficult imports to deal with. A prime example is the Toyota MR2. This cars alternator isn't great to look up, even on a UK vehicle, however when it's on an import we seem to get even more options. O.E. numbers are a must! However it is often best to get the customers original unit rebuilt and returned as good as new.



Lucida UNS202



Bongo UNA1413



UNA281, UNA680, UNA231, UNA262, UNA343



And some of the MR2 alternator options!

