

|           |                   |
|-----------|-------------------|
| REFERENCE | BT_2012_FR20_6_UK |
| DATE      | 16th May, 2012    |
| SUBJECT   | New starter motor |
| PART      | Starter motor     |

### 1. Improved starter motor – ALLOWED FROM NOW

Following several issues with starter motors, Renault Sport has worked with the current supplier to upgrade the complete starter motor.

- Global power of the motor is increased by 10%
- Internal design of the solenoid is completely new and should greatly reduce the effect of vibrations (main problem)
- The springs pushing the rotor brushes are now resisting to a really higher temperature. It will help to maintain a good power level in case of overheating
- 4 holes added to the aluminium casting to cool the starter
- Electrical link between motor and solenoid is not rigid anymore to avoid breakage

#### References:

- Complete new starter motor: 77 11 166 768
- New solenoid: 77 11 166 769

**Both old and new types of starter are allowed for 2012 season.**

**Note:** raising the engine oil pressure prior to start the engine can really reduce the lifetime of the starter motor if starter is activated for a too long period. Therefore, we remind you that reaching an engine oil pressure of 0.3/0.5b prior to start is perfectly sufficient to start the engine safely.

