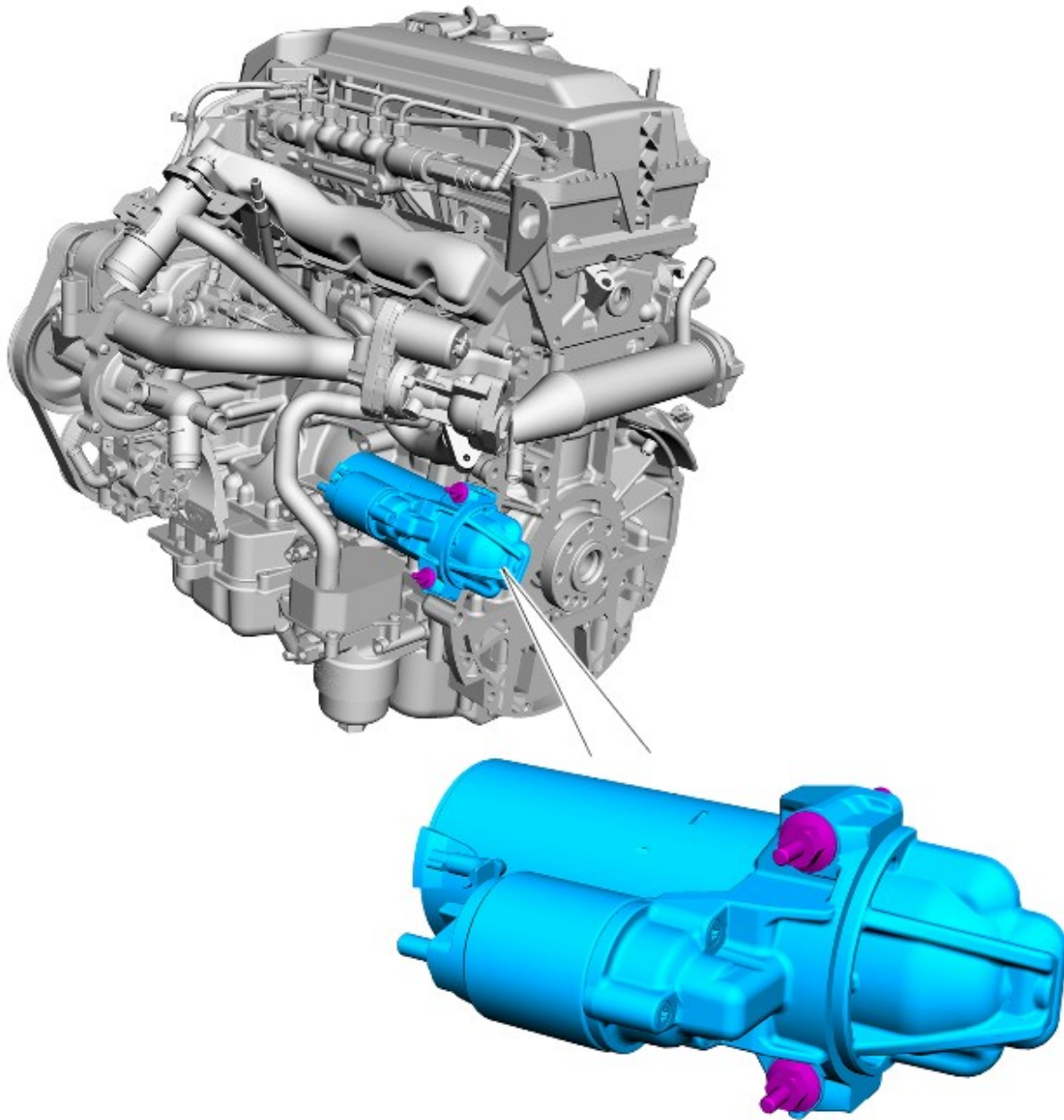


Starting System - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma - Starting System

Description and Operation

COMPONENT LOCATION



E86515

OVERVIEW

The starter motor is rated as 2.0 kW and is of conventional design with the motor and drive pinion in line with the solenoid mounted above. It is of the pre-engaged type and comprises a series wound motor, an overrunning clutch and an integral solenoid. This starter incorporates a labyrinth in the front end nose casting to help with water management, sealing and drainage. The solenoid is sealed to stop water ingress and to alleviate cranking failures due to moisture.

The starter solenoid is energised by a signal from the Engine Control Module (ECM) when the ignition switch is moved to the crank position. When engine cranking is requested, the ECM checks that a valid key code has been received before granting the crank request. The power for starter operation is supplied on a substantial single cable connected direct from the battery positive terminal. The cable is connected to the solenoid via a copper threaded stud and secured with a nut.

The starter motor is located on the rear LH side of the engine block and protrudes through a recess to drive the flywheel via a ring gear. The motor is secured to the cylinder block by 2 bolts.