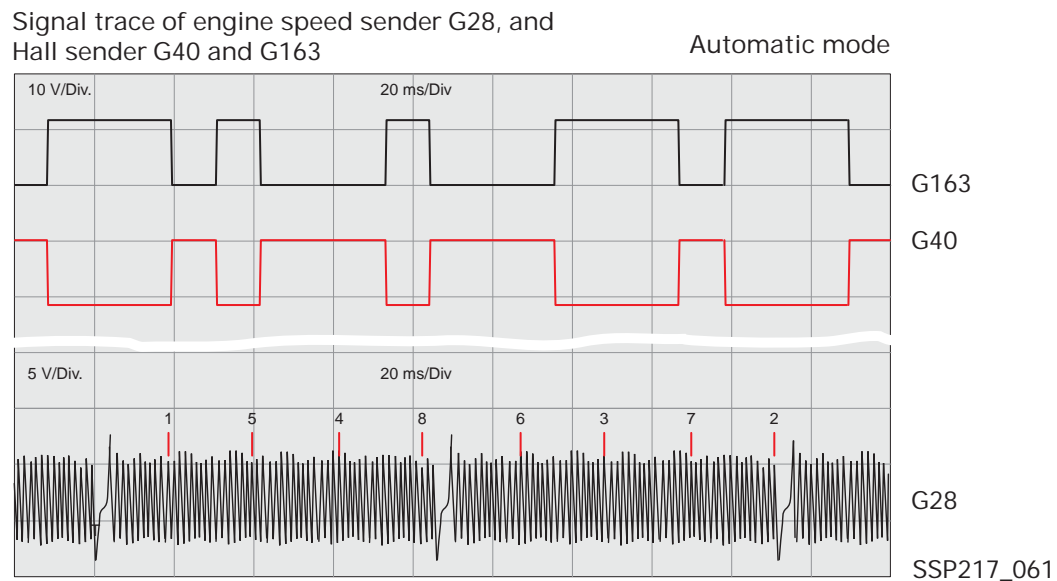


40

* The software reference mark is the point from which the control unit commences its calculations to determine the ignition point. It is about one tooth after the hardware reference mark, which is approximately 66° - 67° cr./shaft before ignition TDC of the 1st cylinder.



The camshaft position sensor G163 is used to monitor camshaft adjustment and to generate a substitute signal if the G40 fails.



The camshaft position sensor G40 is mounted to cylinder bank 2. The camshaft position sensor G163 is mounted to cylinder bank 1.

Engine run-down sensor

The ME 7.1 engine management system has an engine run-down sensor. This device supports the quick-start function so that fuel injection can occur before quick-start synchronisation.

The engine control unit remains active for a defined time after the ignition has been switched off and, with the aid of the G28, "monitors" the engine as it slows to a standstill.

The position of the engine mechanics (position of the next cylinder at ignition TDC) is stored and is available the next time the engine is started. The ME 7.1 can immediately begin injection and has a fuel mixture ready, which has a positive effect on starting behaviour.