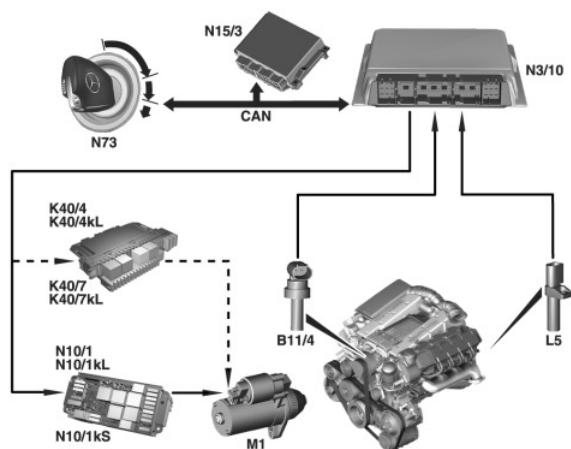


GF15.30-P-3000AM	Starter control, function	25.11.05
------------------	---------------------------	----------

ENGINE 113.992 /995 in MODEL 230

B11/4 Coolant temperature sensor
 K40/4 Passenger-side fuse and relay module (model 230)
 K40/4kL Starter relay (model 230)
 K40/7 Right front fuse and relay module (model 215, 220)
 K40/7kL Starter relay (model 215, 220)
 L5 Crankshaft position sensor
 M1 Starter (circuit 50)
 N3/10 ME control unit
 N10/1 Driver-side SAM control unit with fuse and relay module (models 211, 219)
 N10/1 Front signal acquisition and actuation module (SAM) (model 463)
 N10/1kL Starter relay (models 211, 219)
 N10/1kS Starter relay (model 463)
 N15/3 EGS control unit
 N73 EIS [EZS] control unit



P07.61-2820-06

CAN Data bus (Controller Area Network)

The starter control which is integrated in the ME control unit takes over the actuation of the starter and the deactivation of the starter after reaching the engine starting speed.

Starting prerequisites

The actuation of the starter is performed only during "start enable" (drive authorization) of the EIS control unit and when detecting the engaged drive position "P" or "N" via the ETC [EGS] control unit.

starting

By actuation of the ignition in the start position, the ME control unit receives the "tml. 50 signal" from the EIS control unit via the CAN data bus. Start control is carried out automatically by the ME control unit (touch start). It actuates the starter relay with a ground signal. The power contact on the starter relay closes and the starter solenoid switch is supplied at "terminal 50" with voltage from "terminal 15 unfused".

Ending start

When reaching the engine starting speed of 400 up to 700 rpm and a starting time of approx. 5 to 40 seconds (dependent on the coolant temperature), the ME control unit interrupts negative activation to the starter relay and therefore ends the starting procedure.



Once the start operation is initiated, switching off "circuit 50" (at Ignition/starter switch) has no further effect on the starting procedure.

	Crankshaft position sensor, location/task/design/function		GF07.04-P-4116AM
	Coolant temperature sensor, location/task/design/function		GF07.04-P-5026AM
	ME-SFI control unit, location/task /design/function		GF07.61-P-5000AM