

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
ABS and ASR malfunction indicator lamps remain lit after starting engine, until ignition is switched OFF .	Switchover/solenoid valve (A7/3y5) Overvoltage protection relay module (87E, 7-pole) (K1/1)	23 ⇒ 35.0, 23 ⇒ 3.0, 5.0.
ABS and ASR malfunction indicator lamps come on after exceeding a speed of approx. 5 km/h (3mph), until ignition is switched OFF .	Solenoid valve relay (A7/3k1) Return/pressure pump relay (A7/3k2) Return/pressure pump motor (A7/3m1) ASR charging pump (M15)	23 ⇒ 2.0, 7.0, 23 ⇒ 25.0, 23 ⇒ 39.0.
ABS and ASR malfunction indicator lamps come on while driving, until ignition is switched OFF .	Vehicle speed sensor (L6/1, L6/2, L6/3, L6/4) ASR charging pump (M15) ABS/ASR control module (N30/1)	23 ⇒ 23.0, 26.0, 29.0, 32.0, 38.0, 39.0, ABS/ASR control module (N30/1).
ASR malfunction indicator lamp comes on while driving (electronic accelerator does not enter "limp-home" mode), until ignition is switched OFF .	ASR charging pump (M15) Return/pressure pump motor (A7/3m1), pressure reservoir, hydraulic lines, connections leaking.	23 ⇒ 38.0, 39.0, 33.0, Engines, Volume 3, section 6.1
ASR malfunction indicator lamp comes on while driving, electronic accelerator enters "limp-home" mode, (after brief free play, greater pedal effort required), until the ignition is switched OFF .	Electronic accelerator	Engines, Volume 3, section 6.1

1) Observe Preparation for Test, see 22.