



Mercedes-Benz

## service information

**TO:** OUR MERCEDES-BENZ PASSENGER CAR DEALERS

**DATE:** December 1992

**REF. NO.** MBNA 30/5, 42/9

**SUBJECT: MODELS 124, 126, 129, 140, AND 201  
IDENTIFYING APPROPRIATE DIAGNOSTIC PROCEDURES FOR  
ABS AND CRUISE CONTROL**

### ANTI-LOCK BRAKE SYSTEM (ABS)

When diagnosing ABS related complaints, first determine if the subject vehicle is equipped with Acceleration Slip Regulation (ASR) before referring to the Diagnostic Manual.

Diagnostic testing of the ABS system on models 124.034/036, 129, and 140 equipped *with* ASR is covered in the ASR test, Section 5 of the Model 129 and 140 Diagnostic Manual, Chassis and Drivetrain. Do not refer to section 6, which is intended for diagnostic testing of the ABS system on models *not* equipped with ASR.

Please note that the recently distributed service microfiche titled Brakes II-ABS-ASR I for model 126 (fiche no. 07 102 2235 35) contains information concerning ASR not applicable to U. S. vehicles. Upon introduction in model year 1991, U. S. vehicles with ASR were equipped with ASR version 2 (ASR II), which can be identified by a combined ABS/ASR hydraulic unit. ASR version I (ASR I) which can be identified by separate ABS and ASR hydraulic units, does not apply to U. S. vehicles.

### CRUISE CONTROL

When diagnosing cruise control related complaints, also determine if the subject vehicle is equipped with Acceleration Slip Regulation (ASR) before referring to the Diagnostic Manual or SMS.

Diagnostic testing of the cruise control system on models 124.034/036, 129, and 140 equipped *with* ASR is covered in the Electronic Accelerator test, Section 6 of the Model 129 and 140 Diagnostic Manual, Engines, Volume 3. Do not refer to section 7, which is intended for diagnostic testing of the ABS system on models 124.034 and 140 *not* equipped with ASR.

For additional information, please refer to the chart on the following page.

The following chart gives a survey of where to find diagnostic procedures for ABS and cruise control depending whether or not the vehicle is equipped with ASR:

Mod.	Eng.	ABS on car <i>without</i> ASR	ABS on car <i>with</i> ASR	Cruise control on car <i>without</i> ASR	Cruise control on car <i>with</i> ASR
124	103 CFI	SMS Brakes - ABS Models 124, 129, 140, 201, Grp. 42	Diagnostic Manual, Vol. 3 Drivetrain, Body & Accessories	SMS Cruise control system, Models 124, 129, 201, Group 30	Diagnostic Manual, Volume 2, Gasoline Engines, Electronic Accelerator section
124	104 CFI	SMS Brakes - ABS Models 124, 129, 140, 201, Grp. 42	Diagnostic Manual, Vol. 3 Drivetrain, Body & Accessories	SMS Cruise control system, Models 124, 129, 201, Group 30	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.1
124	104 HFM- SFI	SMS Brakes - ABS Models 124, 129, 140, 201, Grp. 42	Diagnostic Manual, Vol. 3 Drivetrain, Body & Accessories	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 7.3	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.4
124	119 CFI	SMS Brakes - ABS Models 124, 129, 140, 201, Grp. 42	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 5.2	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 7.1	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.2
126	103, 116, 117 CFI	SMS Brakes - ABS/ASR I Models 126, Grp. 42	Diagnostic Manual, Vol. 3 Drivetrain, Body & Accessories	SMS Cruise control system, Models 107, 114, 115, 116, 123, 126, Group 54	Diagnostic Manual, Volume 2 Gasoline Engines, Electronic Accelerator section
129	104, 119 CFI	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 6.1	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 5.1	SMS Cruise control system, Models 124, 129, 201, Group 30	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.1
129	119, 120 LH- SFI	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 6.1	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 5.1	-	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.2, 6.3
140	104, 119, 120 LH- SFI	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 6.2	Diagnostic Manual, Models 129 and 140, Chassis & Drivetrain, Vol. 1, section 5.2	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 7.1	Diagnostic Manual, Models 129 and 140, Engines, Vol. 3 <sup>1)</sup> , section 6.2, 6.3
201	103 CFI	SMS Brakes - ABS Models 124, 129, 140, 201, Grp. 42	Diagnostic Manual, Vol. 3, Drivetrain, Body & Accessories	SMS Cruise control system, Models 124, 129, 201 Group 30	Diagnostic Manual, Volume 2, Gasoline Engines, Electronic Accelerator section

<sup>1)</sup> Note: As of January 1993, sections 6-8, previously located in the Diagnostic Manual, Models 129 and 140, Engines, Vol. 2, have been moved to the new volume 3.