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Revision a: Updated to include model application guide for I/M 240 dynamometer testing

SUBJECT: MY-All, Models All

I/M 240 Emissions Testing on Dynamometer

The enhanced Inspection/Maintenance emission testing program (I/M 240) is in effect in several states.

It is recommended that all vehicles be tested on a 4-wheel dynamometer.

The following vehicle may be tested on a 2-wheel dynamometer:

- Mercedes-Benz vehicles that are 2WD and not equipped with Acceleration Slip Regulation (ASR)
- Mercedes-Benz, Maybach and smart vehicles that are 2WD and have “Dyno-Mode” capability (must be activated)

The following vehicles must be tested on a 4-wheel dynamometer:

- Mercedes-Benz vehicles equipped with ASR
- Mercedes-Benz vehicles equipped with 4MATIC
- Mercedes-Benz vehicles that are 2WD and do not have “Dyno-Mode” capability

Please see **Attachment 1** for a list of vehicles that must be tested on a 4-wheel dynamometer.

Please see **Attachment 2** for a list of vehicles with “Dyno-Mode” capability and the activation procedure.

According to US Environmental Protection Agency (EPA) procedures, if an emissions inspector has difficulty performing the I/M 240 test on a 2-wheel dynamometer, the following should be considered:

- Test the vehicle on a 4-wheel dynamometer, or
- Perform an optional emission test at idle +2500 rpm

This bulletin has been created and maintained in accordance with MBUSA-SLP S423QH001, Document and Data Control, and MBUSA-SLP S424HH001, Control of Quality Records.

An emissions inspector should also consider the options above if they are uncertain about the Dyno-Mode activation procedure or is uncertain about which vehicles can operate on a 2-wheel dynamometer.

Attachment 1: Vehicles That Must be Tested on a 4-Wheel Dynamometer

Model Year	Model	2-Wheel Dyno Acceptable	4-Wheel Dyno Required
1989	All	All	-
1990	E-Class (124), S-Class (126), SL-Class (129), 190E (201)	All 2WD	All w/4MATIC
1991	190E (201), E-Class (124), S-Class (126), SL-Class (129)	All 2WD w/o ASR	All w/ASR, w/4MATIC
1992	E-Class (124), SL-Class (129)	All 2WD w/o ASR	All w/ASR, 400E, w/4MATIC
	S-Class (140), 190E (201)	-	All
1993-1999	All	-	All
2000→	All	2WD w/ Dyno-Mode Capability*	2WD w/o Dyno-Mode Capability, All w/4MATIC

* Dyno-Mode is to be used (if available) for all testing. If Dyno-Mode is not available, a 4-Wheel Dynamometer is required.

Please refer to the Vehicles Operator’s Manual for details regarding ASR and 4MATIC.

Attachment 2: Dyno-Mode Activation Procedure for Operation of a 2WD Vehicle on a 2-Wheel Dynamometer

(Note: if unable to activate Dyno-Mode, please consider testing the vehicle on a 4-Wheel Dynamometer)

Model Year	Model (2WD only)	Procedure
2001-07	C-Class (203),	<ol style="list-style-type: none"> 1. Ignition key on (position 1) 2. The display unit on mileage/travel (daily mileage counter and trip odometer) 3. Push reset-button R, 3 times quickly to display the workshop menu 4. Use the down arrow button to select Dynamometer Test (Rollsmode) 5. Push the + button on the steering wheel to activate Rollsmode <p style="text-align: center;"><i>Rollsmode stays on after every ignition event and is shown by the Info lamp with text information</i></p>
2003-09	E-Class (211),	
2003-09	CLK-Class (209),	
2006-11	CLS-Class (219),	
2000-06	S-Class (220),	
2000-06	CL-Class (215),	
2005-11	SLK-Class (171),	
2003-11	SL-Class (230),	
2011-12	F-Cell (245),	
2009-11	M-Class (164),	
2004-12	Maybach (240)	

Model Year	Model (2WD only)	Procedure
		<p>6. To deactivate Rollsmode, turn the Ignition key on (position 1) and use the down arrow button to select Dynamometer Test, then push the minus (-) button on the steering wheel</p>
<p>2008→ 2010→ 2010→ 2007→ 2007→ 2012→ 2012→ 2008-09</p>	<p>C-Class (204), GLK-Class (204), E-Class (207/212), S-Class (221), CL-Class (216), CLS-Class (218), SLK-Class (172), R-Class (251)</p>	<p><u>With phone buttons:</u></p> <ol style="list-style-type: none"> 1. Ignition key on (position 1) with driver door closed 2. The display unit on mileage/travel (daily mileage counter and trip odometer) 3. Push and hold the phone pick-up button (or hang-up button, depending on model) then within 1 sec. push and hold the OK button on the steering wheel for about 3 sec. until the workshop menu appears 4. Use the down arrow button to select Dynamometer Test (Rollsmode) and press OK 5. Use the OK button to enable Rollsmode <p><i>Rollsmode stays on after every ignition event and is shown by the Info lamp with text information</i></p> <ol style="list-style-type: none"> 7. To deactivate Rollsmode, turn the ignition key on (position 1) , use the OK button to select Rollsmode off when ignition off <p><u>Without phone buttons:</u></p> <ol style="list-style-type: none"> 1. (see above) 2. (see above) 3. Push and hold the + button and within 1 sec. push and hold the reset-button R for about 5 sec. until the workshop menu appears 4. Push the left upper menu button on the steering wheel until Rollsmode appears 5. Activate or deactivate Rollsmode using the R button
<p>2007→</p>	<p>smart (451)</p>	<ol style="list-style-type: none"> 1. Push and hold both buttons on the instrument panel then turn the ignition key on (position 1) and continue to hold both buttons for about 7 sec. 2. Start the engine <p><i>Rollsmode is activated when the ABS, BRAKE and ESP (Traction) warning lamps are illuminated</i></p> <p><i>Rollsmode is deactivated when the ignition key and engine is shut off</i></p>