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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), | 1. Ignition key on (position 1) |
| 2003-09 | E-Class (211), | 2. The display unit on mileage/travel (daily mileage counter and trip odometer) |
| 2003-09 | CLK-Class (209), | 3. Push reset-button R, 3 times quickly to display the workshop menu |
| 2006-11 | CLS-Class (219), | 4. Use the down arrow button to select Dynamometer Test (Rollsmode) |
| 2000-06 | S-Class (220), | 5. Push the + button on the steering wheel to activate Rollsmode |
| 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), | <i>Rollsmode stays on after every ignition event and is shown by the Info lamp with text information</i> |
| 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> |