



Trade Show

AMR 2011 - Auto Maintenance & Repair

March 16 - March 19, 2011

New China International Exhibition Center (NCIEC), Beijing, China

Booth Number: Hall E2, E2424

Automechanika Malaysia

Malaysia International Trade Fair for Automotive Parts, Equipment & Service Suppliers

March 31 - April 2, 2011

Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia

Booth Number: Hall 1, 1D04

TAIPEI AMPA 2011

Taipei Int'l Auto Parts & Accessories Show

TWTC Nangang Exhibition Hall, Taipei, Taiwan

Booth Number: N0314 (1st Floor)

We look forward to greeting you there!

iSCAN-II / D91 Latest Versions (January, 2011)

iSCAN-II DAEWOO	V1.01	English/Chinese	2011-01-12
iSCAN-II PEUGEOT	V3.01 / V2.02 / V1.03	English/Chinese/Japanese /Spanish	2011-01-12
iSCAN-II CITROEN	V3.01 / V2.02 / V1.03	English/Chinese/Japanese /Spanish	2011-01-12
iSCAN-II SUZUKI	V2.01 SP1	English/Chinese/Japanese	2011-01-12
iSCAN-II IMS2-BMW	V2.02	English/Chinese	2011-01-14
iSCAN-II SAAB	V2.00 SP2	English/Chinese/Japanese	2011-01-17
iSCAN-II OPEL-BR	V3.00 SP2	English/Spanish	2011-01-17
iSCAN-II OPEL-UK	V2.00 SP1	English	2011-01-17
D91-DAEWOO	V2.01 / V1.03	English/Chinese	2011-01-12
D91-PEUGEOT	V4.02 / V3.03	English/Chinese/Japanese /Spanish	2011-01-12
D91-CITROEN	V4.02 / V3.03	English/Chinese/Japanese /Spanish	2011-01-12
D91-OPEL-BR	V3.00 SP2	English/Spanish	2011-01-17
D91-OPEL-UK	V2.00 SP1	English	2011-01-17

Software releases monthly for D91-EURO PRO YUP 2011 / D91-ASIAN PRO YUP 2011.
YUP customers, please get the updates from website.

Technical Guidance

Mercedes-Benz: 722.9 Transmission and ISM (Intelligent servo module for DIRECT SELECT)

The structure of 722.9 Transmission:

Automatic transmission 722.9 is an electronically controlled 7-speed automatic transmission with a lockup clutch in the torque converter. The transmission has 7 forward gears and 2 shifted reverse gears. The shift mechanism consists of 4 brake bands, 3 multileaf clutch and 3 sets of planetary gears (one is single planetary gear & 2 double planetary gear). The overall design provides more comfort, less fuel consumption and more driving pleasure.

Assembled models:

After September 2003, the type 722.9 transmission is assembled in the following models:

C-Class	W203, W204
CL-Class	C215, C216
CLK-Class	C209
CLS-Class	W219
E-Class	W211, W212
GL-Class	X164
GLK-Class	X204
M-Class	W164
R-Class	W251
S-Class	W220, W221
SL-Class	R230
SLK-Class	R171

Characteristic of 722.9 transmission:

1. The improved speed ratio of planetary gears and shift mechanism, it provides more driving pleasure, more comfort and steady.
2. The response of gear shift is faster and smarter, and the performance of acceleration capability is better.
3. The fuel consumption is less, and it works more efficiently.
4. The engine output and switch point adjust better, and the power transmission performs very well.
5. Compared with old type transmission, the noise in same speed is also lower.

Activation of ISM, move to Neutral position:

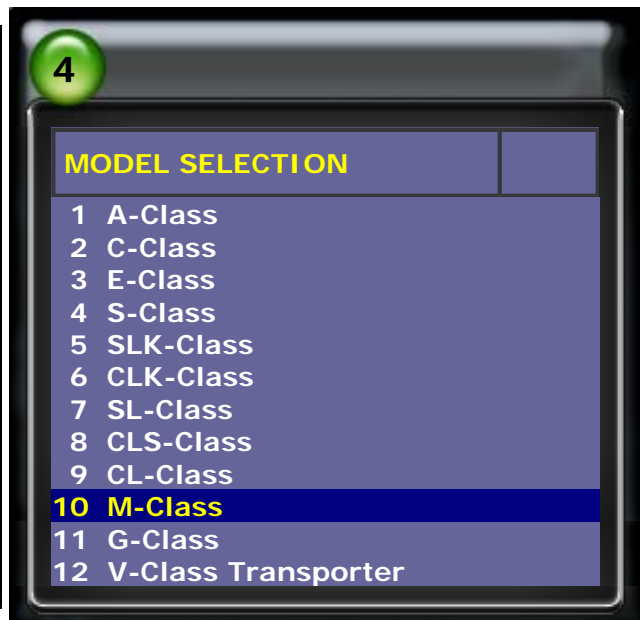
When the gearbox fork in steering wheel didn't work or the gear shift malfunctions due to any other faulty reasons, it is necessary to move the transmission to Neutral position for roadside assistance to tow the vehicle.

Example: Mercedes Benz, M-Class 164

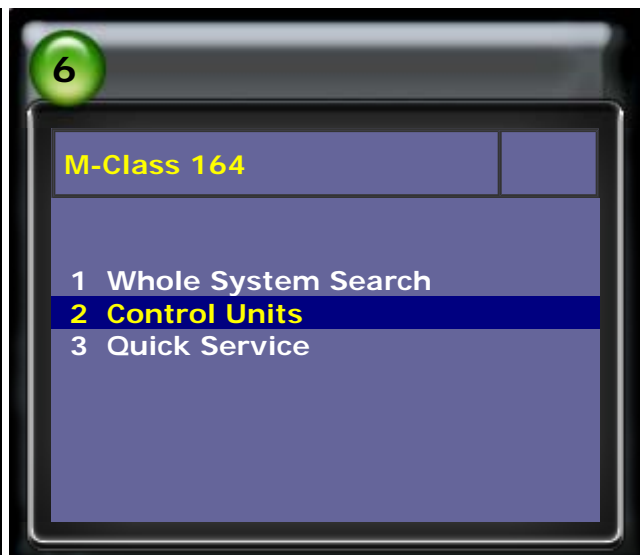
1. Select **Vehicle Diagnostic** -> select **EUROPEAN**



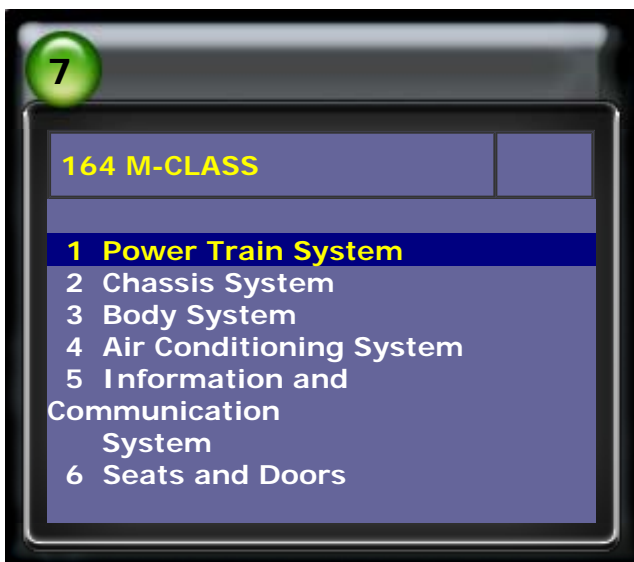
2. Select **MB** software and **M-Class**



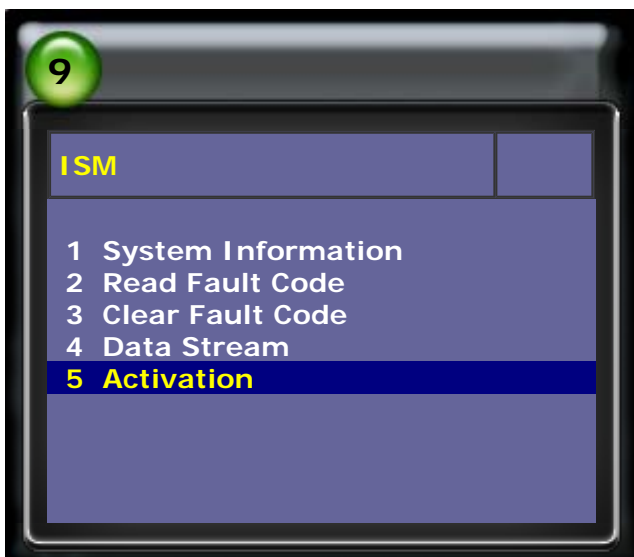
3. Select **164**, then select **Control Units**



4. Select **Power Train System** and **ISM**



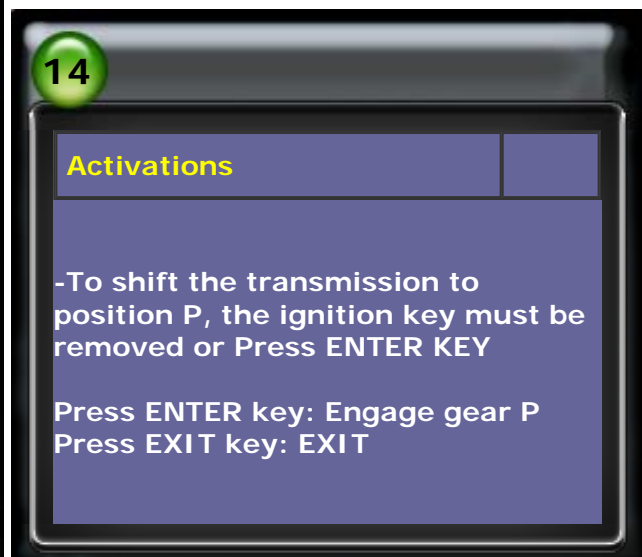
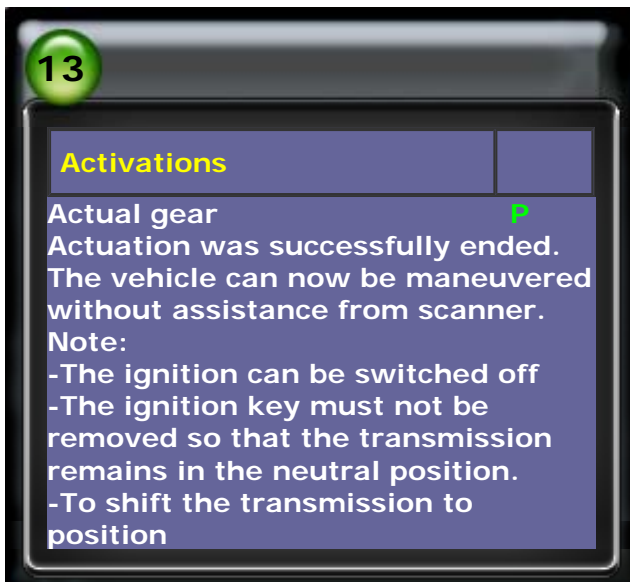
5. Select **Adaptation**, then select **Move transmission into Neutral position**
 (Before moving to N position, operate the parking brake first to avoid the car to move away)



6. Press ENTER to confirm the safety note.
Press ENTER key to move the transmission into Neutral position.



7. Press ENETR key to engage gear P.

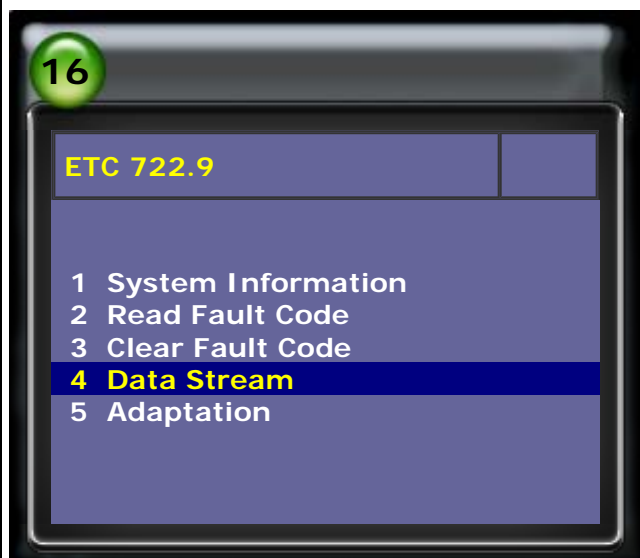




8. Oil Level Check

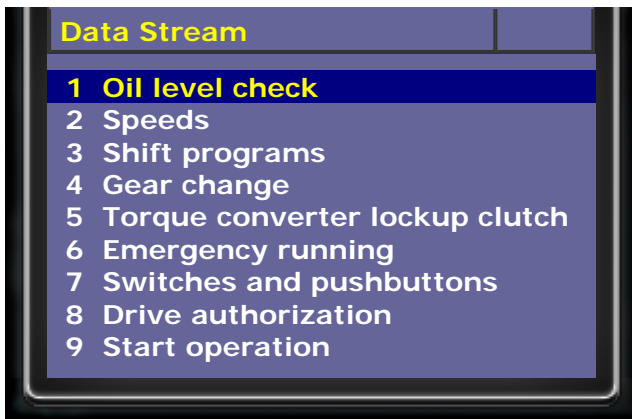
- 1) No dipstick or dipstick tube, and the fluid level checked uses overflow method.
- 2) The engine stops running, make sure that the vehicle is stationary when lifted.
- 3) After draining the fluid, use the special filling tool to add fluid into transmission via the drain plug.
- 4) Start the engine and keep idling, then check the oil temperature to 45°C (new oil pan design) on diagnostic scanner iSCAN-II.
- 5) Add the fluid again until overflowing the overflow pipe. Screw up the drain plug and the oil level check is done.

Select **Transmission** and check the **Data Stream**



9. Check the **Transmission oil temperature** of **Oil level check**





10. Points for attention

- 1) The new designed transmission oil pan is with sloped surface, and the overflow tube is white. The temperature of oil level check is 45°C / 113°F.
- 2) The old type transmission is with chamfered oil pan, and the overflow tube is black. The temperature of oil level check is 35°C / 95°F.
- 3) If the oil pan is old type with chamfered surface, please replace the new type with sloped surface. When driving in the steeper road, it may cause the abnormal oil pressure.
- 4) Only use the approved fluid: MB 236.14 AFT - Part number A001 989 68 03.
Or approved fluid by MB WIS:
Mobil ATF 134, Shell ATF 134, Fuchs Titan EG ATF 134 or 4134
Wrong fluid will damage the transmission.
- 5) Oil drain screw is made of special material. When replacing the new pan, please also replace the new screws.
- 6) Replacing the transmission ecu or solenoid, or the car needs to be overhauled, please go to the dealer to have online software updates.