

All vehicles 8  
billed total vehicles  
12. Fractured in VDC's  
Circuit attached  
19/10/04

# DAIMLERCHRYSLER

DaimlerChrysler  
India Private Limited

Pune, October 12, 2004

All Workshop Incharge  
DC India dealerships / ASC

**Service Measure – Check injectors and ZME; replace, if necessary.  
Model 211 with engine OM 646, 647, 648**

Dear All,

As per the Service Measure instructions received from DCAG, the injectors and ZME of W 211 vehicles with engine OM 646, 647, 648 are requested to be checked. List of the affected vehicles with location details is mentioned in the enclosed CD. Please refer the enclosed work instructions to carry out this action. The affected vehicles are to be attended during their **next visit to workshop.**

## **Operation texts and flat rates (without code 450 – (Taxi)):**

<u>Operation no.</u>	<u>Flat rate</u>	<u>Operation Text</u>
02-4367	0.6h	Carry out diagnosis of injector leakage, quantity correction value and metering unit (after quick test)
02-4368	0.5h	Carry out diagnosis of quantity correction value and metering unit (after quick test) not for Taxi
02-4369	0.5h	Carry out diagnosis of metering unit (after quick test) not for Taxi.
02-4371	0.4h	Carry out small tube measurement (after diagnosis)
02-4372	0.6h	Replace (one) injector (after diagnosis) not for taxi
02-4514	0.8h	Replace (two) injectors (after diagnosis) not for taxi
02-4515	0.9h	Replace (three) injectors (after diagnosis) not for taxi
02-4516	1.3h	Replace (four) injectors (after diagnosis) not for taxi
02-4517	1.5h	Replace (five) injectors (after diagnosis) not for taxi
02-4373		Replace (all) injectors (after diagnosis) not for taxi
	1.3h	- OM 646
	1.5h	- OM 647
	1.8h	- OM 648
02-4374	0.4h	Replace metering unit (after diagnosis) not for taxi

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Board of Management :  
Dr. Klaus-Peter Arnold, Piyush Arora, Hans-Michael Huber (Speaker),  
Suhas Kadlaskar, Rolf Löffler, Augustus Mallier, Sanjiv Sahajwala

A Company of the DaimlerChrysler Group

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**Parts (without code 450 - (Taxi)):**

Part Designation	Part No.	Quantity
Injector OM 646 upto engine 30045955	A 611 070 11 87 05 —	As req.
OM 647 upto engine 30041540	A 611 070 11 87 05	As req.
Injector OM 646 as of engine 30045965	A 646 070 11 81 05 —	As req.
OM 647 as of engine 30041540	A 646 070 11 81 05	
OM 648	A 646 070 11 81 05	As req.
ZME OM 646, 647, 648	A 646 074 00 84 05	

**Damage Code:** 007930067 (in case of repairs with part replacement)  
007930068 (in case of repairs without any part replacement)

**Cost Settlement:**

A warranty/goodwill claim for the costs of labor and material (if any) may be submitted to us, quoting the accounting number 0793006.

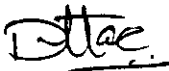
**Completion Deadline:**

The above campaign should be completed by **30<sup>th</sup> April. 2005.**

Please acknowledge receipt of this letter and feel free to revert to us for any queries.

Thanking you

With best regards,  
DaimlerChrysler India Private Limited



D. Chandavarkar  
General Manager  
Aftersales



Ashish Salvi  
Divisional Manager  
Field Service

Copy to - DCIPL Service Representatives } for close follow up with the workshops

Encl. - Work Instruction  
- CD containing vehicle list

**Code: 0404P07A44**

**Work description**

Replace injectors and ZME, no need for testing  
Model 211 with engines OM 646, 647, 648 only code 450 (Taxi)

**Procedure**

1. Replace all injectors (vehicles up to production 04.03) as per AR07.16-P-1000T.
2. Replace the metering unit (vehicles up to production 11.03) as per AR07.03-P0003B.

**Operation text and flat rate**

Operation no.	Operation text	Flat rate
02-4379	Replace (all) injectors (after short test) only taxi	
	OM 646	1.5 h
	OM 647	1.8 h
	OM 648	2.0 h
02-4378	Replace metering unit (after short test) only taxi	
	OM 646, OM 647	0.5 h
	OM 648	0.6 h

**Parts**

Quantity	Designation	Part no.
As req.	Injector	
	OM 646 up to engine 30045955	A 611 070 11 87 05
	OM 647 up to engine 30041540	A 611 070 11 87 05
As req.	Injector	
	OM 646 as of engine 30045956	A 648 070 01 87 05
	OM 647 as of engine 30041541	A 648 070 01 87 05
	OM 648	A 648 070 01 87 05
As req.	ZME	
	OM 646, 647, 648	A 646 074 00 84 05

\*As req. = As required according to inspection findings

Removed injector and metering units must be returned using the usual used parts return channel.  
Please cite accounting number 07 930 06 and code 0404P07A44 on the return slip.

**Code: 0404P07A44**

Work description (without code 450-taxi)

Check injector (leakage + MAR) and ZME; replace if necessary  
Model 211 with engines OM 646, 647, 648 without code 450 (Taxi)

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## **DAS-Check with DRV actuation module (part number W 611 589 05 21 00)**

Remark: For every single vehicle, only the needed test procedures are displayed:  
Testing requirements for the preventive testing of the common-rail-diesel-injection-system is an engine temperature of 80° centigrade min.

- up to production 01.03, injector "Leakage+MAR+ZME"
  1. Pressure drop test with DRV actuation module (up to production 01.03) (**leakage**) without opening the injection system
    - If test concludes OK, (no leakage detectable) please directly change to the testing of the MAR.
    - If the test does not conclude OK, the "Leakage check via the small tube method" follows. If the leakage quantity from one or more injectors exceeds the limit value, all injectors must be replaced at the end of the entire testing procedure (as per AR07.16-P-1000T); the results of both tests must be documented (DAS-printout) and have to be attached to the injectors, that have to be returned. Additionally, the next test, "Quantity correction values", is omitted - the ZME test then follows directly.
  2. Quantity correction values (**MAR**)
    - If one or more injectors exceed the specified limit value, only those injectors that have exceeded this value need to be replaced (as per AR07.16-P-1000T). The result must be documented accordingly (DAS-printout) ) and have to be attached to the injectors, that have to be returned.
  3. Metering unit (**ZME**)
    - If the specified limit value is exceeded, the ZME test must be documented accordingly (printout) and the ZME replaced (as per AR07.03-P0003B).

as of production 02.03 to 04.03, injector "MAR+ZME"

1. Quantity correction values (**MAR**)
  - If one or more injectors exceed the specified limit value, only those injectors that have exceeded this value need to be replaced (as per AR07.16-P-1000T). The result must be documented accordingly (DAS-printout) ) and have to be attached to the injectors, that have to be returned.
2. Metering unit (**ZME**)
  - If the specified limit value is exceeded, the ZME test must be documented accordingly (printout) and the ZME replaced (as per AR07.03-P0003B).

as of production 05.03 to 11.03 "ZME")

1. Metering unit (ZME)

- If the specified limit value is exceeded, the ZME test must be documented accordingly (printout) and the ZME replaced (as per AR07.03-P0003B).

**Work scope:**

1. Remove engine design cover.
2. Connect DAS.
3. Access the "CDI injection system preventative measures" menu item from "Engine control unit" and carry out tests.
4. Connect DRV actuation module
5. Carry out testing procedure "preventive measure CDI-Injection System"

Questionable components may only be replaced after all of the tests mentioned here have been carried out and completely documented.

**Parts**

Quantity	Designation	Part no.		
As req.	Injector	OM 646	up to engine 30045955	A 611 070 11 87 05
		OM 647	up to engine 30041540	A 611 070 11 87 05
As req.	Injector	OM 646	as of engine 30045956	A 648 070 01 87 05 ←
		OM 647	as of engine 30041541	A 648 070 01 87 05
		OM 648		A 648 070 01 87 05
As req.	ZME	OM 646, 647, 648		A 646 074 00 84 05

**\*As req. = As required according to inspection findings**

Removed injector and metering units must be returned using the usual used parts return channel.  
Please cite accounting number 07 930 06 and code 0404P07A44 on the return slip.

## Operation text and flat rate

Operation no.	Operation text	Flat rate
02-4367	Carry out diagnosis of injector leakage, quantity correction value and metering unit (after quick test) not for taxi	0.6 h
02-4368	Carry out diagnosis of quantity correction value and metering unit (after quick test) not for taxi	0.5 h
02-4369	Carry out diagnosis of metering unit (after quick test) Not for taxi	0.5 h
02-4371	Carry out small tube measurement (after diagnosis) Not for taxi	0.4 h
02-4372	Replace (one) injector (after diagnosis) not for taxi	0.6 h
02-4514	Replace (two) injectors (after diagnosis) not for taxi	0.8 h
02-4515	Replace (three) injectors (after diagnosis) not for taxi	0.9 h
02-4516	Replace (four) injectors (after diagnosis) not for taxi	1.3 h
02-4517	Replace (five) injectors (after diagnosis) not for taxi	1.5 h
02-4373	Replace (all) injectors (after diagnosis) not for taxi	
	- OM 646	1.3 h
	- OM 647	1.5 h
	- OM 648	1.8 h
02-4374	Replace metering unit (after diagnosis) not for taxis	0.4 h

DaimlerChrysler AG  
Global Service & Parts