

Service Campaign Bulletin

SB-10057058-1637

Campaign No. 2014030001, July 2014

Revision	Date	Purpose
A	07/11/14	Update to work Procedure
-	04/04/14	Initial release

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Model 212 Hybrid (E-Class), Model Year 2013-2014**
Update Transmission Control Module Software

This Service Campaign has been initiated because Daimler AG (DAG), the manufacturer of Mercedes-Benz vehicles, has determined that the transmission control module software does not correspond to current production configuration. An authorized Mercedes-Benz dealer will update the transmission control module software at the next workshop visit.

Prior to performing this Service Campaign:

- Please check VMI to determine if the vehicle is involved in the Campaign and if it has been previously repaired.
- Please review the entire Service Campaign bulletin and follow the repair procedure exactly as described.

Approximately 342 vehicles are affected.

Order No. P-SC- 2014030001

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.

Procedure

i Note:

- Use DAS/Xentry 03-04/14 with all associated patches or higher.
- Follow the steps exactly as described in DAS/Xentry.
- Connect battery charger (battery voltage >12.5V).
- Ensure all electrical consumers are switched-off.
- In the event of software/SCN update issues, contact Star Diagnosis User Help Desk. Please refer to the "pre-call" check list before contacting UHD.
- Refer to Star Diagnosis System (SDS) Best Practices Guide.

1. Update Transmission Control Module Software:

- "Control units view / Fully integrated transmission control (VGSNAG2) / Adaptations / Control unit programming.
- Follow on-screen instructions.

Note:

Please verify transmission control module software number changed after performing the software update.

2. Update software in power electronics control unit (SG-EM):

- Control units view / Power electronics (SG-EM) / Adaptations / Control unit programming.

Note:

If the software is already up-to-date, this step is not required.

- Follow on-screen instructions.

3. Update software in battery management system (BMS) control unit:

- Control units view / Battery management system (BMS) / Adaptations / Control unit programming.

Note:

If the software is already up-to-date, this step is not required.

- Follow on-screen instructions.

i Note:

The following allowable labor operation should be used when submitting a warranty claim for this repair:

Warranty Information

Operation: Connect/disconnect battery charger (02-5058)
 Star Diagnosis System (SDS), Connect/disconnect (02-4762)
 Update software in transmission control module (02-8401)
Includes: SCN coding
 Update software in power electronics control module and battery management system (BMS) (02-8576)

Damage Code	Operation Number	Labor Time (hrs.)
54 958 44 8	02-5058	0.1
	02-4762	0.1
	02-8401	0.1
	02-8576*	0.1

* This operation item is to be used in the corresponding frequency and only when required.

i Note

Operation Number labor times are subject to change.

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Mercedes-Benz

Campaign No 2014050007, July 2014

TO: ALL MERCEDES-BENZ CENTERS

SUBJECT: **Model 117 AMG with Engine 133, Model Year 2014**
Check Turbocharger, Replace if Necessary

This Service Campaign has been initiated because Daimler AG (DAG), the manufacturer of Mercedes-Benz vehicles, has determined that due to contamination in the turbo charger oil feed lines the turbo charger may need to be replaced. An authorized dealer will check, and if necessary, replace the turbo charger and oil lines at the next workshop visit.

Prior to performing this Service Campaign:

- Please check VMI to determine if the vehicle is involved in the Campaign and if it has been previously repaired.
- Please review the entire Service Campaign bulletin and follow the repair procedure exactly as described.

Approximately 459 vehicles are affected.

Order No. P-SC-2014050007

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.

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Procedure

A. Inspect Turbocharger

i **Note:**

Engine must be cold.

1.  Remove air filter housing refer to WIS: AR09.10-P-1150MTA.
2.  Remove engine cover and turbocharger heat shield.

i **Installation Note:** Torque heat shield bolts to: 9 **Nm**.

3. Loosen profile clamp (1, Figure 1) and move exhaust pipe to one side.

i **Installation Note:**

- Replace profile clamps and bolts
- Torque profile clamp bolt to: 20 **Nm**.

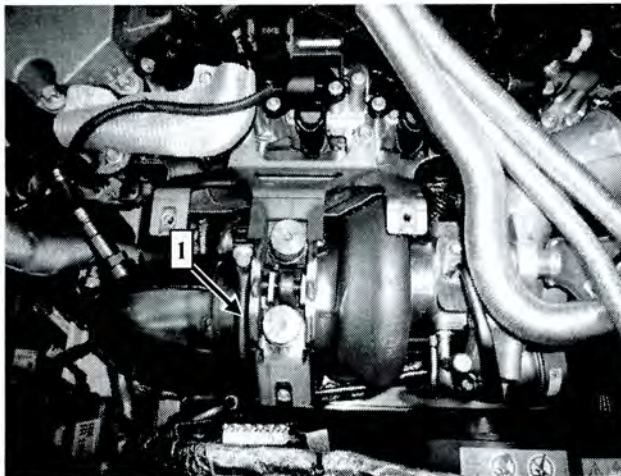


Figure 1

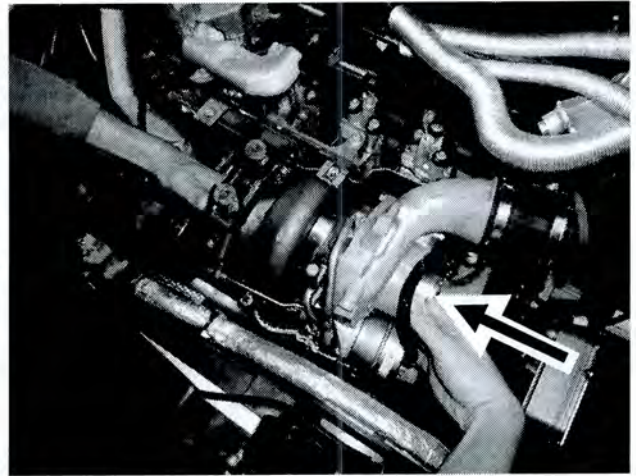



Figure 2

4.  Detach air intake pipe refer to WIS: AR09.10-P-8131MTA.
- i** **Note:**
Place to one side with connected lines.
5. Push turbocharger shaft back and forth repeatedly by hand to relieve any residual oil pressure (Figure 2).
- i** **Note:**
Do not use any tools.
6. Slide shaft up to end stop in direction of turbine by exerting pressure by hand on compressor impeller shaft in direction of arrow (Figure 2).

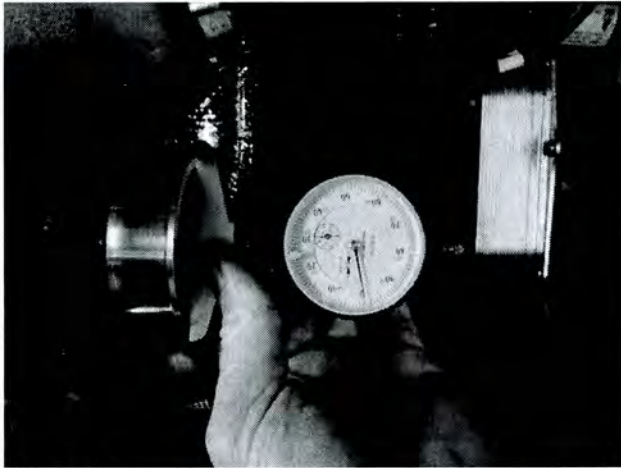


Figure 3

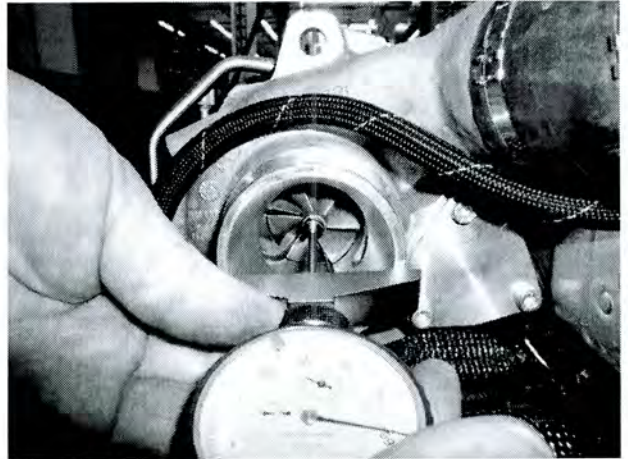


Figure 4

7. Position depth gage with measuring bridge at compressor housing in the middle so that it is level (Figure 3).

i Note:

Set depth gage to "ZERO". The measuring tip must make level contact with shaft (Figure 4).

8. Push end shaft up to end stop by hand in direction of compressor by exerting pressure on turbine wheel shaft (exhaust side) (with 2nd person if necessary).

i Note:

Do not use any tools.

9. **g** Read off axial play.
 - If axial play is *greater than or equal to* 0.08 mm (NOT OK): Proceed to Subject B.
 - If axial play is *less than* 0.08 mm (OK): End measure.
10. Assemble in reverse order.

B. Replace Turbocharger and Oil Lines

1. Drain oil from engine.

i Note:

- The engine oil **must** be drained via the **oil drain plug** at the oil pan. It must **not** be extracted.
- Do not refill engine with oil this time.

2. Replace turbocharger refer to WIS: AR09.40-P-6020MTA.

i Note:

- Engine must be cold.
- Do not drain coolant from cooling system.
- Do not remove: Coolant lines from coolant hose, coolant line from engine block, exhaust pipes from mounting brackets on body, O² sensors from exhaust system, cable tie at purge lines.
- Do not separate ventilation lines from mounting bracket (step 5 in WIS instructions: AR09.40-P-6020MTA). Place ventilation lines along with air intake duct to one side as an assembly.
- In the event turbo mounting bracket bolt (A, Figure 5) is binding in turbo mounting eyelet (B), cut through bolt (at arrow) with rotary cutting tool (etc.) to remove bolt (A) from turbo.



WARNING! Be sure to wear proper eye protection

- Transfer mounting bracket (C) to new turbo and install new bolt (A, refer to parts table for part number).

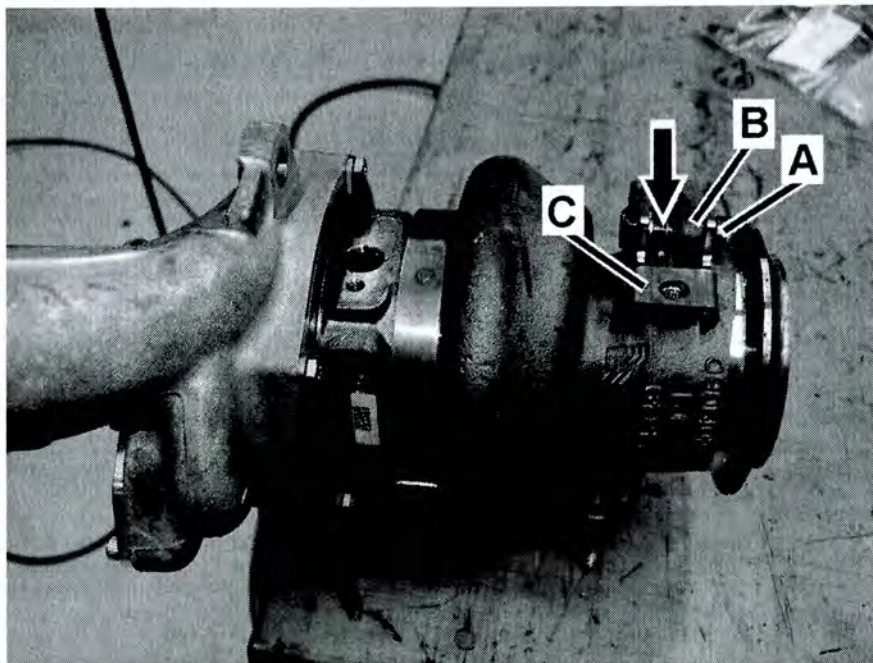



Figure 5

3. Replace oil lines refer to WIS: AR18.30-P-6850MTA.

i **Note** (regarding referenced WIS documents):

- When installing mounting brackets for turbo oil lines and coolant lines, position lines at installed position on turbo (do not tighten at this time) then install mounting brackets (securing coolant lines and oil lines).
Be sure to torque all bolts to proper specifications; refer to referenced WIS documents: AR18.30-P-6850MTA and AR20.20-P-7440MTA for torque specifications **Nm** and additional pictures.
-  Check coolant level and top-off coolant (shop supply) if necessary.
- 4. Replace oil filter and refill engine with oil.

i **Note:**

- Be careful not to overfill engine oil.
 - Check engine oil level.
5. Assemble in reverse order.

i **Note:**

Requested parts must be returned to the designated QEC test center in accordance with the warranty parts return requirements section found in the policy and procedures manual.

Optional Special Tools Information

For dealers who need to order a bridge and already have a depth gage (with assorted stems) please refer to the following links:

- For all standard 3/8th shank depth gages use this link:
<http://www.flexbar.com/shop/pc/V-ANGLE-DEPTH-GAGE-BASE-4-BASE-52p4776.htm>

V-ANGLE DEPTH GAGE BASE-4" BASE

[Our Products: Inspection & Measurement](#) > [Dimensional Measurement \(Gages and Accessories\)](#) > [Digital & Dial Indicators & Accessories](#)

Model #: 16838

ADDITIONAL DIAL INDICATOR DEPTH GAGE BASES

Precision ground and hardened Depth Base accepts any standard AGD Dial Indicator with 3/8" stem. Manufactured from hardened Steel, ground for flatness, and Black Ox plated.
Model No. 16838, V-Angle Depth Gage Base 4" Base.

Price: \$38.50

1

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Add to Wishlist

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- For Starrett Depth Gages please use this link:

<http://www.starrett.com/metrology/product-detail/Precision-Measuring-Tools/Precision-Hand-Tools/Depth-Gages/Depth-Gage-Accessories/648-4>

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Home > Metrology > Metrology Products > Precision Measuring Tools > Depth Gages > Depth Gage Accessories > 648-4

648-4 Depth Gage Base with Stem Collet
65850

Other similar products ▾

These different bases are for mounting indicators with a 3/8" (9.5mm) stem (25SC38 Stem Collet included) or an 8mm stem with optional 25MSB Split Bushing. Depth Gage Base with Stem Collet for AGD Style Indicator, 4".

Contact Starrett

\$114.00 Ea

Information for those dealers who need to buy a complete Depth Gage, base/bridge and extensions. link:

Complete Kit: Fowler standard/ metric Electronic Depth Gage p/n 54-125-777

Website with best prices:

- \$158.00 @

<http://www.higherprecision.com/products/depth-gages/x-depth-electronic-depth-gage>
and

- \$200.80 @

http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Dindustrial&field-keywords=Fowler%2054-125-777

Parts Information (if turbo is OK)

Qty.	Part Name	Part Number	Estimated Replacement Rate
2	Screws/bolts	A 210 990 09 04	80%
1	Profile clamp	A 000 995 22 33	
1	Profile clamp	A 000 995 23 33	

i Note:

Do not order parts listed above if turbo is NOT OK. These parts will be included in the turbocharger parts kit (below).

Parts Information (if turbo is NOT OK)

Qty.	Part Name	Part Number	Estimated Replacement Rate
4	O-rings (coolant line to turbo)	A 027 997 06 45	20%
1	Oil drain plug washer	N007603 014106	
1	Hose clamp	A 007 997 08 90	
1	Turbocharger w/ parts kit ¹⁾	A 133 090 03 80 05	
6 qts., ²⁾	5.5 l engine oil per Specifications 0W- 40 for Operating Fluids, Sheet 229.5	BQ 109 0010 through BQ 109 0016 ³⁾	

¹⁾ Do not install locking plates (part no.: A133 141 01 85) from turbocharger parts kit. Installation of the locking plates is not included in this campaign.

²⁾ Oil Capacity: 5.5 qts. for engine oil change with filter (**do not overfill**).

³⁾ Choose appropriate engine oil part number based on packaging

i Note:

- Please be aware that only the part number(s) referenced in the Campaign Bulletin is/are approved for use to repair the vehicle. Repairs performed using any other part(s) will not have been performed in accordance with the campaign. Accordingly, warranty claims submitted with reference to an improper part number(s) will be denied.
- The following allowable labor operation should be used when submitting a warranty claim for this repair:

Warranty Information**Repair 1**

Operation: Check turbocharger (02-8460)

Damage Code	Operation Number	Labor Time (hrs.)
09 931 32 8	02-8460	1.1

Repair 2

Operation: Check turbocharger (02-8460)
Replace turbocharger (02-8461)

Damage Code	Operation Number	Labor Time (hrs.)
09 931 32 7	02-8460	1.1
	02-8461*	2.1

* Includes: replace oil lines, perform engine oil and filter change

Note

Operation Number labor times are subject to change