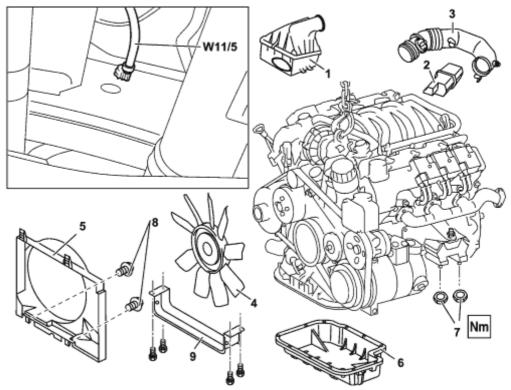
AR01.45-P-7555V Page 1 of 3

| AR01.45-P-7555V | Remove/install bottom part of oil pan | 15.5.97 |
|-----------------|---------------------------------------|---------|
|-----------------|---------------------------------------|---------|

ENGINE 112.942 in MODEL 163.154 ENGINE 112.970 in MODEL 163.157 ENGINE 113.942 in MODEL 163.172

Shown on engine 112

- 1 Air cleaner housing
- 2 Resonance body
- 3 Resonance pipe
- 4 Viscous fan
- 5 Fan shroud
- 6 Bottom part of oil pan
- 7 Nuts
- 8 Bolts
- 9 Air baffle
- W11/5 Engine ground strap/body



P01.45-2014-06

Also detach the coolant overflow tank w/hoses attached prior to lifting eng.

| XX | Remove/Install | | |
|-----|--|---|--------------------|
| i | | External torx set | 001 589 76 09 00 |
| 1 | Remove engine trim panel | | |
| 2 | Remove viscous fan (4) | i Right-hand thread! | AR20.40-P-5660C |
| 3.1 | Remove fan shroud (5). | i Only Engine 112.942 /970. | |
| | | Unscrew bolts (8) at bottom of fan shroud. | |
| 4.1 | Remove air guide (9) | i Only Engine 113.942. | |
| 5 | Drain and collect engine oil | Hm | BA01.45-P-1003-01B |
| | | Ħ | BF18.00-P-1001-01H |
| 6 | Unscrew nuts (7) at front suspension carrier | Before unbolting the left engine mount, press oil line of power steering out of fixture. | |
| | | Nm | BA22.10-P-1001-01L |
| 7 | Remove resonance pipe (3) and resonance body (2) | i Do not damage the plastic strap. i The resonance pipe is attached at the rear at the intake manifold with a plastic plate. i Disconnect connector of hot film mass air flow sensor (HFM) and unscrew resonance pipe at cylinder head cover. | |
| | | Engine 112.942/970. | AR07.07-P-1454A |
| | | Engine 112.912/946. | AR07.07-P-1454MV |

AR01.45-P-7555V Page 2 of 3

| 8 | Fit on engine supporting frame | | AR33.10-P-0100- 01BV |
|----|--|---|-------------------------|
| | | Engine lifting device for ML-class | WH58.30-Z-1013-07A |
| 9 | Raise engine | i Ensure that the rear of the engine does not touch the body! Do not overstretch coolant lines and engine ground strap/body (W11/5), if necessary remove engine ground strap/body (W11/5). | |
| 10 | Unbolt bottom part of oil pan (6) | Nm | BA01.45-P-1002-01B |
| 11 | Remove bottom part of oil pan (6) | Installation: Clean sealing surfaces, apply sealing compound to the sealing surfaces with a bead of 2.0 mm ± 0.5 mm! The sealant must be applied within 10 minutes! The silicone bead must not be spread! | BR00.45-Z-1015-01A |
| i | Notes on application of sealant to oil pan | Engine 112 | AH01.45-P-0001-01C |
| | | Engine 112.912/946. | AH01.45-P-0001-01E |
| 12 | Install in the reverse order | | |

Nm Oil pan

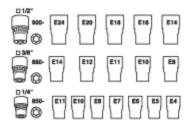
| Number | Designation | | Engine 112 | Engines 113.942/965/981 | |
|--------------------|---------------------------------|----------------------|------------|----------------------------|----|
| BA01.45-P-1002-01B | Self-tapping bolt of oil pan to | Thread not pretapped | Nm | 14 | 14 |
| | oil pan | Thread pretapped | Nm | 10 | 10 |
| BA01.45-P-1003-01B | Oil drain plug to oil pan | M14 | Nm | 30 | 30 |

Hm Engine mounts, engine supports

| Number | Designation | | | Engines 112, 113 |
|--------------------|---|---|----|------------------|
| BA22.10-P-1001-01L | Bolt of front engine mounts to front axle carrier | 1 | Nm | 35 |

Engine lubrication

| Number | Designation | | Engine 112 | Engine 113.942 | |
|--------------------|-------------|-------------------------------------|------------|------------------------|--------------------|
| BF18.00-P-1001-01H | Engine oil | Filling capacity with oil filter | Liters | 8.0 | 8.0 |
| | | Filling capacity without oil filter | Liters | - | - |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0229- 01A | BB00.40-P-0229-01A |
| | | | Sheet | BB00.40-P-0229- 03A | BB00.40-P-0229-03A |
| | | | Sheet | BB00.40-P-0229- 05A | BB00.40-P-0229-05A |



001 589 76 09 00

External Torx set

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Commercially available tools (see Workshop Equipment Manual)

| Number | Designation | Make (e. g.) | Order number |
|--------------------|------------------------------------|---|--------------|
| WH58.30-Z-1013-07A | Engine lifting device for ML-class | SPX (Europe) AG Kent-Moore Division attn.: Mr Hodel Oberneuhofstr. 1 CH-6340 Baar Fax:+4141/761-43-43 Fax:+4141/761-07-27 USA SPX Corporation OE Tool+Equiqment 28635 Mound Road warren, MI 48092 Tel: 1-800-345-2233 Fax: 1-800-578-7375 | 0334.01 |

Auxiliary repair materials

| Number | Designation | Order number |
|--------------------|----------------------|--------------------|
| BR00.45-Z-1015-01A | Loctite sealant 5970 | A 003 989 98 20 10 |