

AR15.30-P-7100GZ

Removing/installing the starter

25.11.04

ENGINE 113.964 in MODEL 164.175

1 Electric cable circuit 30

2 Electric cable circuit 50

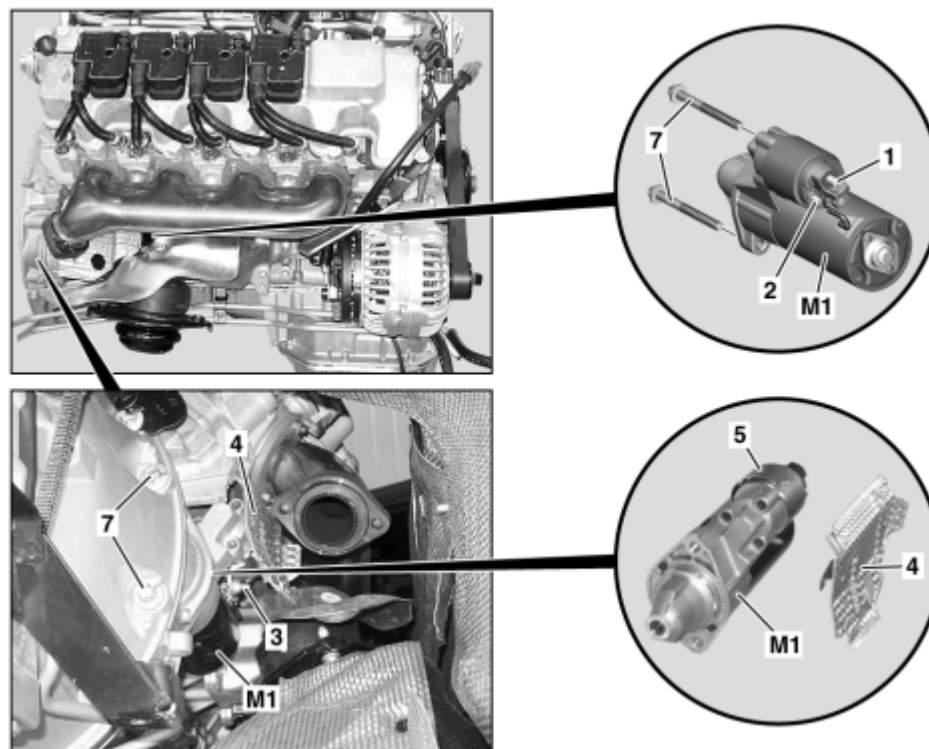
3 Nut

4 Shield

5 Securing clamp








7 Bolts





M1 Starter



P15.30-2153-06

| | | | |
|----------------|---|--|------------------------------------|
| | Removing/installing | | |
| Danger! | Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof. | When moving components, ensure that no body parts or limbs are within the operating range of moving parts. | AS00.00-Z-0011-01A |
| 1 | Open engine hood | | AR88.40-P-1000GZ |
| | Risk of explosion caused by | No fire, sparks, open flames or | AS54.10-Z-0001-01A |

| | | | |
|--|--|---|------------------------------------|
|  Danger! | oxyhydrogen gas. Risk of poisoning and caustic burns caused by swallowing battery acid. Risk of injury caused by burns to skin and eyes from battery acid or when handling damaged lead-acid batteries | smoking. Wear acid-resistant gloves, clothing and safety glasses. Only pour battery acid into suitable and appropriately marked containers. | |
| 2 | Disconnect ground cable from battery |  Insulate clamp of ground line as a protection against unintentional contact of dismantled ground line with ground point of battery. | AR54.10-P-0003GZ |
|  | Notes on battery | All models | AH54.10-P-0001-01A |
|  Danger! | Risk of death caused by vehicle slipping or toppling off the lifting platform. | Align vehicle between the columns of the hydraulic hoist and position the four support plates below the hoist support points specified by the vehicle manufacturer. | AS00.00-Z-0010-01A |
| 3 | Raise vehicle with lifting platform | | AR00.60-P-1000GZ |
| 4 | Remove bottom engine compartment paneling | | AR61.20-P-1105GZ |
| 5 | Remove complete exhaust system | | AR49.10-P-7000GZ |
| 6 | Remove protection against electrical contact for electrical line circuit 30 (1) from starter motor (M1) | | |
| 7 | Detach the electrical line for circuit 30(1) on starter motor (M1) |  Nut for terminal 30 connection | BA15.30-P-1001-01A |
| 8 | Detach the electrical line for circuit 50 (2) on starter motor(M1) |  Nut for terminal 50 connection | BA15.30-P-1002-01A |
| 9 | Screw down nut (3) on mounting clamp (5) | | |
| 10 | Unhook shield (4) out of the mounting clamp (5) upwards and remove | | |
| 11 | Unscrew bolts (7) from starter motor (M1) |  Bolt for starter on crankcase | BA15.30-P-1003-01A |
| 12 | Lead starter motor (M1) downwards | | |

| | | | |
|--|--|---|------------------------------------|
| | |  Pull starter motor out of the crankcase and turn anti-clockwise by about 45°. | |
| 13.1 | Check ring gear on the drive plate for wear and damage |  When replacing the starter motor (M1). | |
| | |  Rotate engine at the center Bolt for the crankshaft in the direction of rotation. | |
| 14 | Install in reverse order | | |
| 15 | Read out fault memory and erase if required | | |
|  AD | Connect up STAR DIAGNOSIS and read out fault memory | | AD00.00-P-2000-04A |
| | | STAR DIAGNOSIS diagnosis system | WE58.40-Z-1013-06A |

 **Starter**

| Number | Designation | | Engine 113.964 in model 164 |
|--------------------|----------------------------------|----|--------------------------------|
| BA15.30-P-1001-01A | Nut for connection of circuit 30 | Nm | 14 |
| BA15.30-P-1002-01A | Nut for connection of circuit 50 | Nm | 6 |
| BA15.30-P-1003-01A | Bolt for starter on crankcase | Nm | 40 |

Workshop equipment/MB testers (see Workshop Equipment Manual)

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| WE58.40-Z-1013-06A | STAR DIAGNOSIS Compact diagnosis system for passenger cars, order number 6511 1801 00 |
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