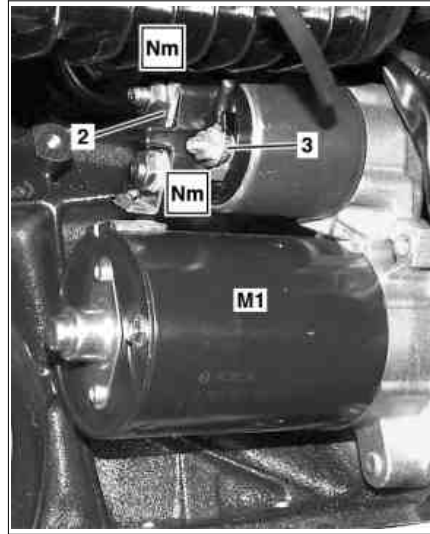


ENGINE 111.951 in MODEL 203.035 /235 /735
ENGINE 111.955 in MODEL 203.045 /245 /745
ENGINE 112.912 in MODEL 203.061 /261, 209.361 /461
ENGINE 112.946 in MODEL 203.064 /264
ENGINE 112.955 in MODEL 209.365 /465
ENGINE 113.968 in MODEL 209.375 /475
ENGINE 113.987 in MODEL 209.376 /476
ENGINE 113.988 in MODEL 203.076 /276

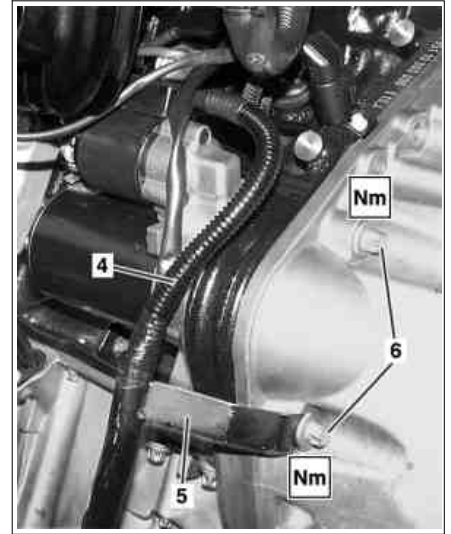
Shown on engine 111.951
in model 203.035

- 2 Electric line circuit 30
- 3 Electric cable circuit 50
- 4 Cable harness
- 5 Bracket
- 6 Bolts

M1 Starter



P15.30-2037-02




P15.30-2038-02

Modification notes

3.9.03	Check ring gear - added	Step 10	
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		Remove/install	
⚠	Danger!	Risk of death caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of lifting platform and position the four support plates at lifting platform support points specified by vehicle manufacturer. AS00.00-Z-0010-01A
⚠	Danger!	Risk of explosion caused by escaping oxyhydrogen gas. Risk of injury caused by caustic burns to eyes, skin and mucous membranes from battery electrolyte (contains diluted sulfuric acid) or metal spatter due to short circuit. Risk of burn injuries caused by short circuit. Risk of poisoning caused by swallowing battery electrolyte (contains diluted sulfuric acid) or absorption of lead over the skin or orifices	No fire, sparks, open flames or smoking. Wear acid-resistant gloves and clothing and safety glasses with side guards. Do not place any conductive objects on the battery and avoid any short circuit from battery positive to ground. Only fill liquid battery electrolyte (diluted sulfuric acid) into suitable and appropriately marked containers. AS54.10-Z-0001-01A
!*		Notes on self-locking nuts and bolts	All models AH00.00-N-0001-01A
1		Disconnect ground line from battery	⚠ Do not connect quiescent current retention unit. Risk of short circuit! Model 203 MODEL 209 AR54.10-P-0003P AR54.10-P-0003Q AH54.10-P-0001-01A
!*		Notes on battery	All models AR61.20-P-1105P
2		Detach lower engine compartment paneling	AR49.10-P-7000PR AR49.10-P-7000PV AR49.10-P-7000AC
3.1		Remove complete exhaust system	Model 203 with engine 111 Model 203, 209 with engine 112 Model 203 with engine 113
3.2		Remove center bracket for exhaust system	Model 209 with engine 113
4.1		Remove right engine mount	Model 209 with engine 113 AR22.10-P-1100PV
5		Detach electrical line circuit 30 (2)	Nm *BA15.30-P-1001-01A
6		Detach electrical line circuit 50 (3)	Nm *BA15.30-P-1002-01A
7		Remove bolts (6)	Nm *BA15.30-P-1003-01A
8		Place holder (5) and cable harness (4) to one side	
9.1		Remove starter (M1) from below	Model 203 with engine 111, 112, 113 Model 209 with engine 112

9.2	Lead starter (M1) to the front of the vehicle and remove downwards	Model 209 with engine 113	
10.1	Check ring gear at flywheel for wear and damage	<p>i When replacing the starter on vehicles with a manual transmission.</p> <p>i Rotate engine at crankshaft in direction of rotation.</p>	
10.2	Check ring gear at the drive plate for wear and damage	<p>i When replacing the starter on vehicles with an automatic transmission.</p> <p>i Rotate engine at crankshaft in direction of rotation.</p>	
11	Install in the reverse order		
12	Carry out function check		
13	Render electrical system operational	See: ↓ Perform basic programming Model 203 Model 209	AR00.19-P-0200P AR00.19-P-0200Q
14	<p>Read out fault memory and erase</p> <p> AD Connect STAR DIAGNOSIS and read out fault memory</p>	<p>i When the work is complete stored faults must be worked on in the diagnostic trouble code memories and erased. ↓</p> <p>STAR DIAGNOSIS Compact diagnosis system for passenger cars</p>	AD00.00-P-2000-04A

Nm Starter

Number	Designation	Engine 103, 104, 111, 120	Engine 112 except 112.951, 113.94/ 96/98	Engine 113.987 in model 209	Engine 113.988 in model 203
BA15.30-P-1001-01A	Nut, connection for circuit 30	Nm 14	14	14	14
BA15.30-P-1002-01A	Nut, connection for circuit 50	Nm 6	6	6	6
BA15.30-P-1003-01A	Bolt connecting starter to crankcase	Nm 42	42	40	40