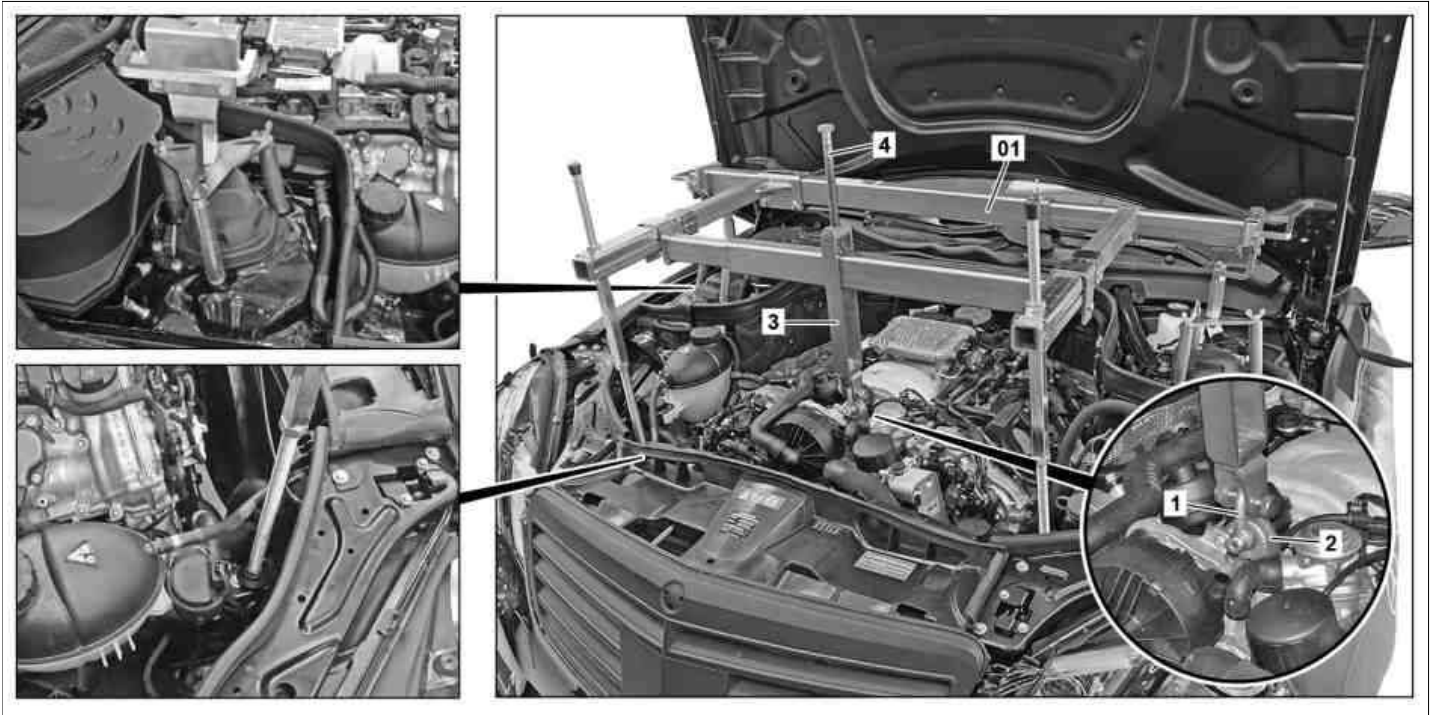


Model 166 with engine 157, 276, 278, 642, 651
 Model 212 with engine 156, 157, 271, 272, 273, 274, 276, 278, 642, 651
 Model 218 with engine 157, 274, 276, 278, 642, 651
 Model 292 with engine 157, 276, 278, 642



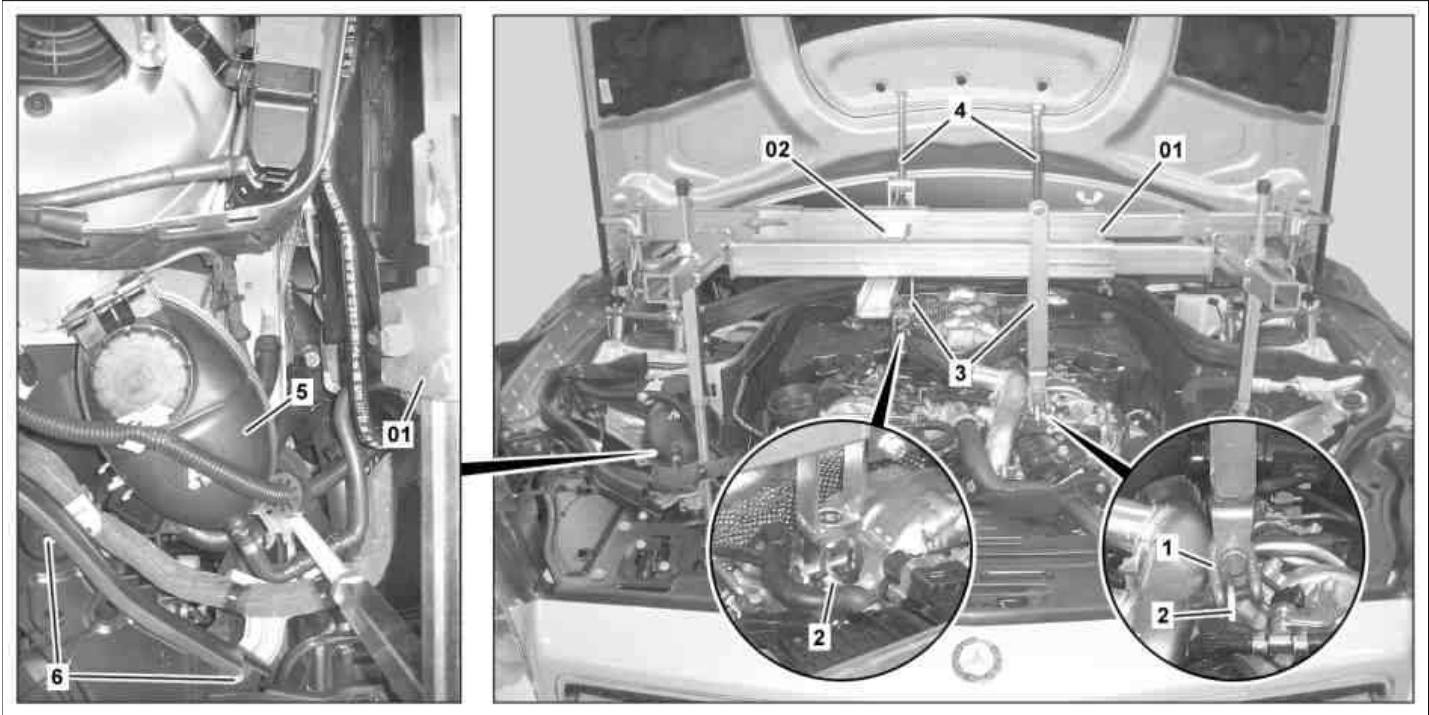
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Shown on model 212 with engine 273

01 Engine hoist
 1 Shackle

2 Engine suspension lug
 3 Lifting gear

4 Clamping bolt


















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Shown on MODEL 218 with ENGINE 642

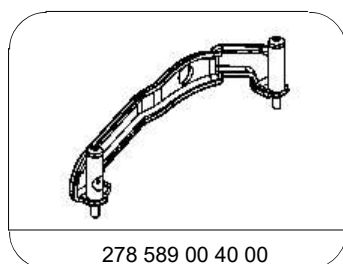
- | | | | | | |
|----|-------------------------------|---|-----------------------|---|---------------------|
| 01 | Engine hoist | 2 | Engine suspension lug | 5 | Expansion reservoir |
| 02 | Adapted engine lifting device | 3 | Lifting gear | 6 | Bolts |
| 1 | Shackle | 4 | Turnbuckles | | |

		Attach, remove	
1		Switch off ignition and remove transmitter key	
2	Open engine hood and raise to vertical position	Model 166 with engine 157, 276, 278, 642, 651 Model 212 with engine 156, 157, 271, 272, 273, 274, 276, 278, 642, 651 Model 218 with engine 157, 274, 276, 278, 642, 651 Model 292 with engine 157, 276, 278, 642	AR88.40-P-1000GQ AR88.40-P-1000EW
3.1	Remove front engine cover	Model 166 with engine 157, 276, 278 Model 212 with engine 156, 157, 271, 272, 273, 274, 276, 278 Model 218 with engine 157, 274, 276, 278 Model 292 with engine 157, 276, 278	
3.2	Remove upper engine cover	Model 166 with engine 642, 651 Model 212 with engine 642, 651 Model 218 with engine 642, 651 Model 292 with engine 642	
4	Remove bolts (6) for engine wiring harness bracket	Model 218 with engine 276, 642	
5	Unclip expansion reservoir (5) and place to one side	Model 218 with engine 157, 274, 276, 278, 642, 651	

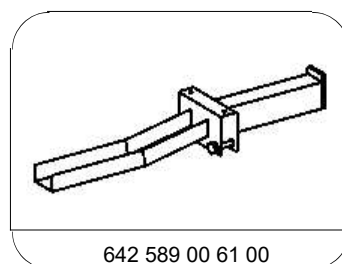
6	Remove cover on left and right suspension strut tower	Model 166 with engine 157, 276, 278, 642, 651 with code 489 (AIRMATIC) Model 212 with engine 156, 157, 271, 272, 273, 274, 276, 278, 642, 651 with code 489 (AIRMATIC) Model 218 with engine 157, 274, 276, 278, 642, 651 with code 489 (AIRMATIC) Model 292 with engine 157, 276, 278, 642 with code 489 (AIRMATIC)	
7	Remove air intake box		
8	Mount adapter to adaptation plates	Model 166 with engine 157, 276, 278, 642, 651 Model 292 with engine 157, 276, 278, 642  Adapter kit  Adaptation plates	*240589013100 *240589003200
9	Mount adaptation plates to engine hoist (01)	 The spring tower support of the engine hoist (01) cannot be used.  Engine lifting device  Adaptation plates	*240589006100 *240589003200
10	Unclip expansion reservoir for ACTIVE CURVE SYSTEM and place to one side	Model 166 with engine 157, 276, 278, 642, 651 with code 468 (ACTIVE CURVE SYSTEM) Model 292 with engine 157, 276, 278, 642 with code 468 (ACTIVE CURVE SYSTEM)	
11	Adjust threaded rods of engine hoist (01) to match longitudinal members	Model 166 with engine 157, 276, 278, 642, 651 Model 292 with engine 157, 276, 278, 642  Make sure that the threaded rods are positioned on the longitudinal members.  Adapter kit	*240589013100
12	Position loosely preassembled engine hoist (01) onto suspension strut towers with the aid of an assistant and guide into threaded rods	 Position the engine hoist (01) carefully. Adjacent components and painted surfaces could be damaged otherwise.  Helper required.  Observe the manufacturer's assembly specifications and safety information.	
13	Mount adaptation for engine hoist (02) to engine hoist (01)	Model 218 with engine 642, 651  Adaptation of engine lifting device	*642589006100
14	Mount front lifting eye onto engine	Model 166, 212, 218, 292 with engine 157, 278  Bolt, lifting eye to cylinder head  Lifting eye	AR33.10-P-0105-01SX *BA01.30-P-1006-01X *278589004000
15	Fasten shackle (1) onto engine suspension lugs (2) or lifting eye	 Lifting eye	*278589004000
16	Align engine hoist (01) and tighten bolted connections		
17	Tighten lifting gear (3) using rigging screw (4)	 Where several lifting gear devices (3) are used they must be uniformly aligned.	
18	Detach in the reverse order		

 Cylinder head

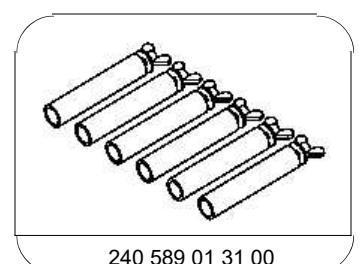
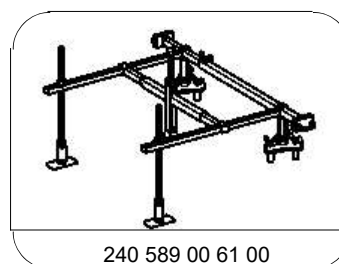
Number	Designation		Engine 157	Engine 278
BA01.30-P-1006-01X	Bolt, lifting eye to cylinder head	Nm	14	14

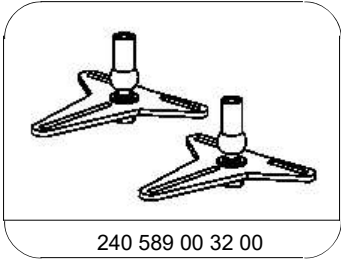


Lifting eye



Adaptation of engine lifting device





240 589 00 32 00

Adaptation plates