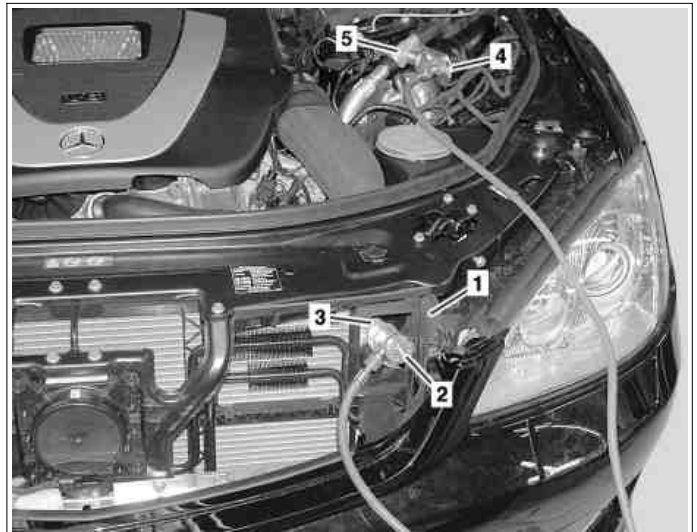


MODEL 216, 221


















Shown on model 221

- 1 Cover
- 2 Filling connection
- 3 High pressure pipe
- 4 Filling connection
- 5 Low pressure pipe



P83.30-4297-11

Danger !	Risk of explosion caused by welding or soldering work on closed air conditioning system. Risk of poisoning caused by inhaling overheated refrigerant vapors. Risk of injury to skin and eyes caused by contact with liquid refrigerant.	Do not perform welding work on or near a closed air conditioning system. No smoking or open flames. Wear safety glasses and protective gloves. Work only in well ventilated areas. Carry out repair work on the air conditioning system circuit only after the system has been drained.	AS83.00-Z-0001-01A
	Protect air conditioning circuit and components from moisture when carrying out repair work		AH83.30-P-0005-01A
	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
	Notes on handling refrigerant R134a		AH83.30-N-0003-01A
	Draining		
1.1	Open the cover (1)	MODEL 221	
1.2	Remove radiator grille and cover over high-pressure line (3)	MODEL 216 Remove/install front bumperMODEL 216 up to model year 2011 Remove/install radiator grilleMODEL 216 as of model year 2011 Mounting wedge	AR88.20-P-2000SX AR88.40-P-4001SC *110589035900
2	Connect air conditioning extractor, recycling and filling unit for refrigerant R134a	Observe the manufacturer's operator's manual. Air conditioner service unit R134a gotis://E_83_05.0	
3	Suction off refrigerant	Note down extracted compressor oil filling quantity.	
	Evacuate		
4	Check specifications for replacing fluid reservoir Protect air conditioning circuit and components from moisture when carrying out repair work	If specifications are met. ↓ Replace receiver/drier.	AH83.30-P-0005-01A AR83.30-P-6520SX
5	Clean refrigerant and evacuate air conditioning system	Air conditioner service unit R134a gotis://E_83_05.0	
	Filling		


6	Replace the filling quantity of compressor oil noted down during evacuation of the air conditioning system with new compressor oil and route back to the refrigerant circuit	 Note compressor oil filling quantity. If the compressor oil filling quantity is measured incorrectly, the refrigerant compressor can be damaged.  Additional oil filling quantity following installation of new refrigerant circuit components:  Filling quantity - refrigerant compressor  Additional oil filling quantity after sudden emptying of system (e.g. line ruptured)  Additional oil filling quantity after replacement of condenser  Additional oil filling quantity after replacement of evaporator  Additional oil filling quantity after replacement of fluid reservoir  Additional oil filling quantity after replacement of low-pressure line  Additional oil filling quantity after replacement of high-pressure line  Additional oil filling quantity after replacement of refrigerant compressor  Additional oil filling quantity with detectable leakage  Additional oil filling quantity after replacement of rear air conditioning evaporator  Additional oil filling quantity after replacement of rear A/C lines  Additional oil filling quantity after replacement of evaporator (rear)  Additional filling capacity for refrigerant compressor with rear air conditioning Air conditioner service unit R134a gotis://E_83_05.0	*BF83.55-P-1001-01H *BF83.55-P-1002-01H *BF83.55-P-1003-01H *BF83.55-P-1004-01H *BF83.55-P-1005-01H *BF83.55-P-1006-01H *BF83.55-P-1007-01H *BF83.55-P-1008-01H *BF83.55-P-1009-01H *BF83.55-P-1010-01H *BF83.55-P-1011-01H *BF83.55-P-1012-01H *BF83.55-P-1013-01H
7	Charge air conditioning system	 Filling capacity of air conditioning/automatic air conditioning	*BF83.00-P-1001-01H
8	Perform pressure test on AC system		
9	Disconnect air conditioning evacuation, recycling and charging unit for refrigerant R134a		
	Check		
10	Check air conditioning system for leakage	MODEL 221.095/195 MODEL 216, 221 (except 221.095/195)	AR83.30-P-1761PS AR83.30-P-1761UV
11.1	Close cover (1)	MODEL 221	
11.2	Install radiator grille and cover over high-pressure line (3)	MODEL 216	

 Air conditioning/automatic air conditioning

Number	Designation	MODEL 216	MODEL 221 except CODE 582, except CODE Z07, except CODE Z19
BF83.00-P-1001-01H	Filling capacity of air conditioning/automatic air conditioning	Refrigerant R134 a g 1070	1070
		See	BB00.40-P-0361-00A BB00.40-P-0361-00A

 Air conditioning/automatic air conditioning


Number	Designation	MODEL 221 with CODE 582, except CODE Z07, except CODE Z19	MODEL 221 with CODE 582, with CODE Z07, with CODE Z19
BF83.00-P-1001-01H	Filling capacity of air conditioning/automatic air conditioning	Refrigerant R134 a g 1180	1350
		See	BB00.40-P-0361-00A BB00.40-P-0361-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1001-01H	Filling quantity - refrigerant compressor	Compressor oil	cm ³	110	120
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1001-01H	Filling quantity - refrigerant compressor	Compressor oil	cm ³	110
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1002-01H	Additional oil filling quantity after sudden emptying of system (e.g. line ruptured)	Compressor oil	cm ³	40	40
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1002-01H	Additional oil filling quantity after sudden emptying of system (e.g. line ruptured)	Compressor oil	cm ³	40
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1003-01H	Additional oil filling quantity after replacement of condenser	Compressor oil	cm ³	20	20
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A


 Refrigerant compressor

Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1003-01H	Additional oil filling quantity after replacement of condenser	Compressor oil	cm ³	20
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
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BF83.55-P-1004-01H	Additional oil filling quantity after replacement of evaporator	Compressor oil	cm ³	40	40
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation				MODEL 221 Refrigerant compressor
BF83.55-P-1004-01H	Additional oil filling quantity after replacement of evaporator	Compressor oil	cm ³	40	
		Sheet		BB00.40-P-0362-00A	

 Refrigerant compressor

Number	Designation				MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1005-01H	Additional oil filling quantity after replacement of fluid reservoir	Compressor oil	cm ³	10	10	
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A	

 Refrigerant compressor

Number	Designation				MODEL 221 Refrigerant compressor
BF83.55-P-1005-01H	Additional oil filling quantity after replacement of fluid reservoir	Compressor oil	cm ³	10	
		Sheet		BB00.40-P-0362-00A	

 Refrigerant compressor

Number	Designation				MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1006-01H	Additional oil filling quantity after replacement of low-pressure line	Compressor oil	cm ³	10	10	
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A	

 Refrigerant compressor

Number	Designation				MODEL 221 Refrigerant compressor
BF83.55-P-1006-01H	Additional oil filling quantity after replacement of low-pressure line	Compressor oil	cm ³	10	
		Sheet		BB00.40-P-0362-00A	

 Refrigerant compressor


Number	Designation				MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1007-01H	Additional oil filling quantity after replacement of high-pressure line	Compressor oil	cm ³	10	10	
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A	

 Refrigerant compressor


Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1007-01H	Additional oil filling quantity after replacement of high-pressure line	Compressor oil	cm ³	10
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1008-01H	Additional oil filling quantity after replacement of refrigerant compressor	Compressor oil	cm ³	20	–
		Sheet		BB00.40-P-0362-00A	-

 Refrigerant compressor


Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1008-01H	Additional oil filling quantity after replacement of refrigerant compressor	Compressor oil	cm ³	20
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1009-01H	Additional oil filling quantity with detectable leakage	Compressor oil	cm ³	20	20
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1009-01H	Additional oil filling quantity with detectable leakage	Compressor oil	cm ³	20
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1010-01H	Additional oil filling quantity after replacement of rear air conditioning evaporator	Compressor oil	cm ³	30	30
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1010-01H	Additional oil filling quantity after replacement of rear air conditioning evaporator	Compressor oil	cm ³	30
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1011-01H	Additional oil filling quantity after replacement of rear A/C lines	Compressor oil	cm ³	20	20
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor


Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1011-01H	Additional oil filling quantity after replacement of rear A/C lines	Compressor oil	cm ³	20
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1012-01H	Additional oil filling quantity after replacement of evaporator (rear)	Compressor oil	cm ³	10	10
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor

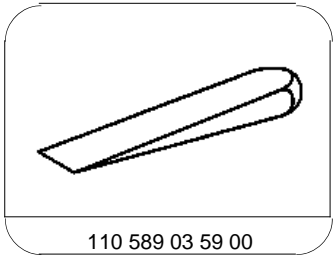
Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1012-01H	Additional oil filling quantity after replacement of evaporator (rear)	Compressor oil	cm ³	10
		Sheet		BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 216 Refrigerant compressor	MODEL 221 Electric refrigerant compressor with mild hybrid
BF83.55-P-1013-01H	Additional filling capacity for refrigerant compressor with rear air conditioning	Compressor oil	cm ³	30	30
		Sheet		BB00.40-P-0362-00A	BB00.40-P-0362-00A

 Refrigerant compressor

Number	Designation			MODEL 221 Refrigerant compressor
BF83.55-P-1013-01H	Additional filling capacity for refrigerant compressor with rear air conditioning	Compressor oil	cm ³	30
		Sheet		BB00.40-P-0362-00A



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Mounting wedge