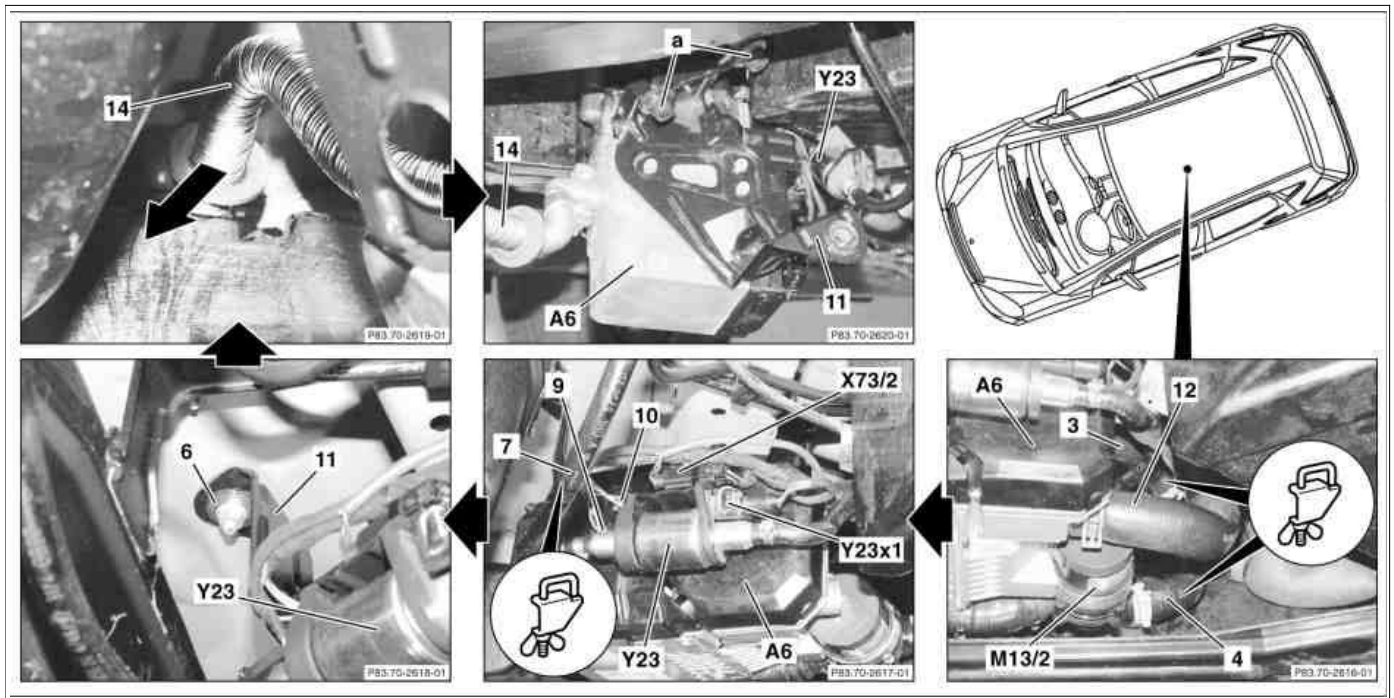
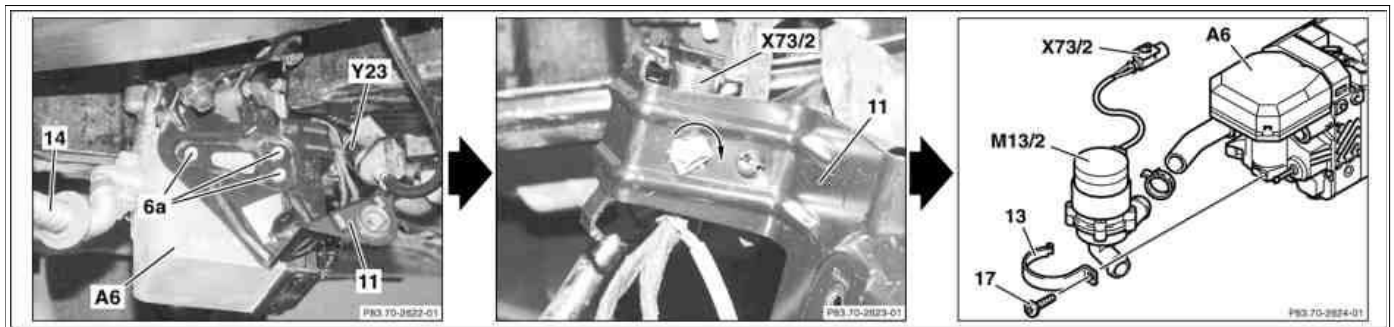


MODEL 168.### 1# with ENGINES 668.940 /941 /942  
with heater booster or retrofitted Thermo Top C stationary preheater



P83.70-2621-09

3	Coolant outlet line, heater unit	10	Coupling, control leads	M13/2	Coolant recirculation pump
4	Coolant supply line, heater unit	11	Bracket (heater booster)	X73/2	Plug connection for coolant recirculation pump
6	Nut	12	Combustion air intake line	Y23	Fuel metering pump
7	Fuel feed line	14	Exhaust gas line	Y23x1	Fuel metering pump connector
9	Coupling, voltage supply	a	Rubber mount		
		A6	Heater unit		



P83.70-2625-07

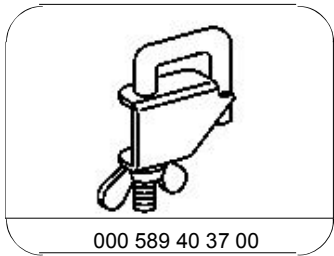
6a	Screw	17	Screw	M13/2	Coolant recirculation pump
11	Bracket (heater booster)	a	Rubber mount	X73/2	Plug connection for coolant recirculation pump
13	Bow	A6	Heater unit	Y23	Fuel metering pump

☒	Remove		
	<b>Risk of explosion</b> from fuel vapors, <b>risk of poisoning</b> from inhaling combustion gases and <b>risk of injury</b> from burns during and after operation of heater unit.	Do not operate stationary heater, auxiliary heater or engine with heater booster in closed areas or when refueling. Allow heater unit to cool down after operation and wear protective gloves.	AS83.70-Z-0002-01A
i	Stationary heater/stationary preheater/heater booster differentiating characteristics		AH83.70-P-0003-01C
1	Remove and install lower sections of noise encapsulation		AR94.30-P-5300GD
	<b>Risk of injury</b> to skin and eyes suffering scalding from contact with hot coolant spray. <b>Risk of poisoning</b> from swallowing coolant.	Do not open cooling system unless coolant temperature is below 90 °C. Open cap slowly and release the pressure. Do not pour coolant into beverage bottles. Wear protective gloves, protective clothing and eye protection.	AS20.00-Z-0001-01A

2	Relieve pressure in the coolant circuit	In order to achieve this, slowly unscrew the coolant compensation tank closure cap 1/2 revolution.	
3	Pinch off coolant outlet line (4) and coolant supply line (3)		*000589543700
4	Disconnect coolant hoses (3) from the heater unit (A6) and the coolant recirculation pump (M13/2)	Collect escaping coolant in a clean container and pour back into coolant compensation tank after installation of heater unit <b>Installation:</b> Check collar clamps, replace if necessary.	
5	<b>Risk of explosion</b> if ignition takes place, <b>risk of poisoning</b> caused by inhaling fuel vapors or swallowing fuel as well as <b>risk of injury</b> to skin and eyes exposed to fuel. Pinch fuel feed line (7) off and disconnect at the fuel metering pump (Y23)	No fire, sparks, naked flames or smoking. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing when handling fuel. <b>Installation:</b> Replace collar clamp on the fuel supply line. 	AS47.00-Z-0001-01A  *000589403700
6	Disconnect circulation pump connector (X73/2) and fuel pump connector (Y23x1)	<b>Installation:</b> Replace cable strap.	
7	Disconnect connectors (9, 10) from heater unit (A6)		
8	Loosen nut (6) from bracket (11)	Pull heater unit (A6) from stud.	
9	Pull exhaust gas pipe (14) through dividing wall		
10	Push heater unit (A6) with bracket (11) in direction of travel until rubber mounts (a) have moved out of transverse support, guide heater unit (A6) out downwards		
	<b>Disassembling, assembling</b>		
11	Disconnect exhaust pipe (14) from heater unit (A6)		
12	Disconnect fuel line (7) from heater unit (A6)		
13	Disconnect heater unit bracket (11) with fuel pump (Y23) from heater unit (A6)	 Bracket (11) is fastened with 3 bolts (6a).	*BA83.70-P-1009-01A
14	Remove circulation pump connector (X73/2) from bracket (11)	Rotate connector on bracket (11) and pull off.	
15	Disconnect circulation pump (M13/2) from heater unit (A6)	<b>Assembly:</b> First attach bow (17) into heater unit (A6).	
16	Install in the reverse order		
	<b>Check</b>		
17	Check relay assignment of heater unit (A6) in right of engine compartment		GF54.15-P-1257-02B
GF			
18	Check fuse assignment of heater unit (A6) in right of engine compartment		GF54.15-P-1256-02A
GF			
19	Bleed coolant circuit after installing the heater		AR83.70-P-5302-01D
20	Inspect cooling system for leaks		AR20.00-P-1010GF
21	Perform heater booster (ZUH) diagnosis function check		AD83.70-P-3004A
AD			
22	Start up stationary preheater	If the heater unit (A6) switches off independently before reaching its operating temperature and cannot be restarted, a malfunction blockage is present (continue with ↓). Eliminate malfunction lockout	AZ83.70-P-5302-08B  AR83.70-P-5302-07B
AZ			

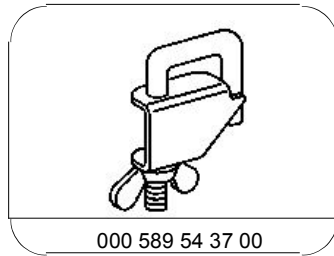
**Stationary heater**

Number	Designation	Models
		<b>129, 163, 168 with Thermo Top C heater unit</b>
BA83.70-P-1009-01A	Bolt for bracket to heater unit	NM 10



000 589 40 37 00

Clamp



000 589 54 37 00

Clamp