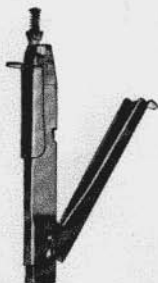


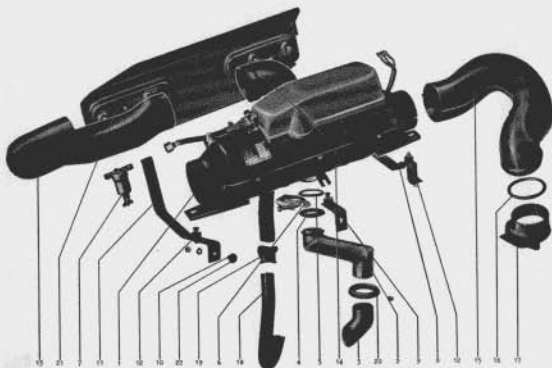
Installation instructions for Type 1, Models 141 and 143

The Eberspächer BN 2 heater is installed in the front luggage compartment on the left side (from driver's position looking forward).

Tools



Sheet metal cutting tool



No.	Description	Qty.	Notes when assembling	Special instructions see
1	Heater	1		
2	Exhaust pipe	1	oil to facilitate installation	
3	Exhaust elbow	1	secure to item 2 with sheet metal screw	
4	Sealing ring, exhaust pipe	1		
5	Tapered ring, exhaust pipe	1		
6	Clamp	1		
7	Fuel filter	1	arrow shows flow direction	
8	Bracket, rear	1		
9	Bracket, center	1		
10	Sealing washer	2		
11	Bracket, front	1		
12	Bonded rubber mounting	3	attach to brackets, then install bracket	
13	Air circulation duct, front	1		
14	Air circulation duct, center	1		
15	Air circulation duct, rear	1		
16	Sealing ring for air circulation pipe	2		
17	Warm air outlet	1		
18	Combustion air pipe	1		
19	Seal	1	apply silicone spray to facilitate installation	
20	Seal for combustion air pipe	1		
21	Cover plate	1		
22	Bolt M 6×15	2		
	Grommet for fuel hose	1		
	Fuel hose	1		
	Switch	1		
	Cable harness	1		
	Exhaustion	1		
	T piece for fuel line	1		
	Clamp for fuel hose	3		
	Knurled nut	2		
	Hose 26.3×2	1		
	Bolt M 6×30	1		
	Nut	8		
	Washer M 6	8		
	Washer A 3.7	2		
	Washer A 6.4	2		
	Screw 33.5×9.5	2		
	Sealing ring A 8×11.5	2		
	Hose 6×2.5	1		
	Union	1		
	Sticker	1		

Preparation

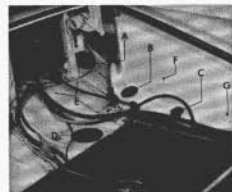
- 1 - Disconnect battery ground strap.
- 2 - Take both front wheels off.
- 3 - Take spare wheel out.
- 4 - Take luggage compartment lining out.
- 5 - Cut out the templates (see pages F 4.20/4-9 and 4-10).

Work sequence



Note

The templates on page F 4.20/4-9 and 4-10 are intended for a few times usage only. Dealers who install numerous heaters are advised to cut the templates out of more durable material. The sides of the templates marked with a wide black border must be placed properly against the reference areas to ensure that the holes are located accurately.



- 2 - Cut or drill the holes as follows:

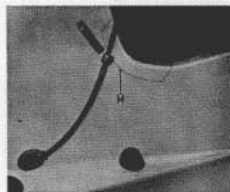
- A = Hole for rear air circulation duct.
- B = Hole for exhaust pipe.
- C = Hole for combustion air pipe.
- D = Hole for center air circulation duct.
- E = Two 7 mm ($\frac{7}{16}$ in.) holes for rear bracket screws.
- F = 7 mm hole for center bracket
- G = 7 mm hole for front bracket

Caution

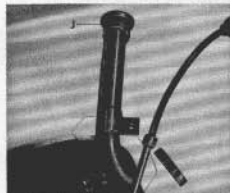
While drilling holes always make sure that penetration does not cause damage.

- 1 - Place four templates in position. The vertical line on template I must be aligned with the centers of the tank securing bolts.

- 3 - Drill 4 mm ($\frac{1}{8}$ in.) hole H.



- 4 - Install the seal J Oil the combustion air type, insert it and secure it with a sheet metal screw. The pipe must project at least 10 mm ($\frac{3}{8}$ in.) through the seal.



- 5 - Install fuel hose as shown.

- K = Grommet, inserted in 20 mm ($\frac{3}{4}$ in.) hole.
- L = Clamp securing fuel hose.

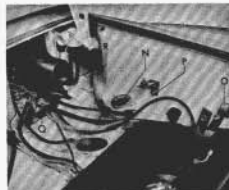


- 6 - Install T piece for fuel line underneath tank.

- 7 - Install fuel hoses and secure with clamps.

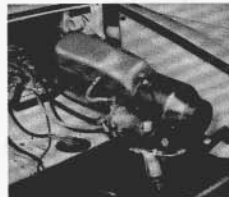


- 8 - Drill a 15 mm ($\frac{1}{4}$ in.) hole in instrument panel for heater switch.
 - 9 - Connect wires to switch as shown in wiring diagram F 4.1.5-1.
 - 10 - Secure switch in hole with escutcheon and screw knob on.
- M = Knob for heater switch.



- 11 - Install three brackets for heater.
- 12 - Install exhaust pipe seal.
- 13 - Install rear air circulation duct.

N = Seal
O = Front bracket
P = Center bracket
Q = Rear bracket
R = Air circulation duct, rear



- 14 - Install heater on the three brackets.
- 15 - Install fuel filter.

Note

The arrow on the filter shows the flow direction.

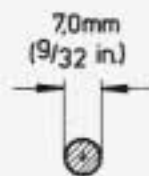
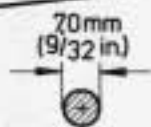
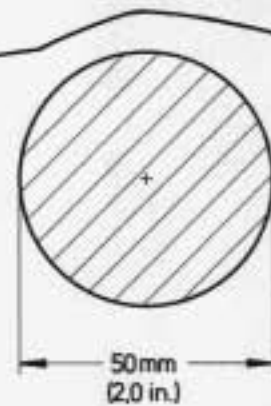
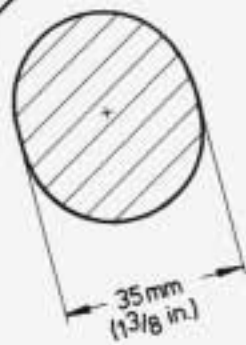
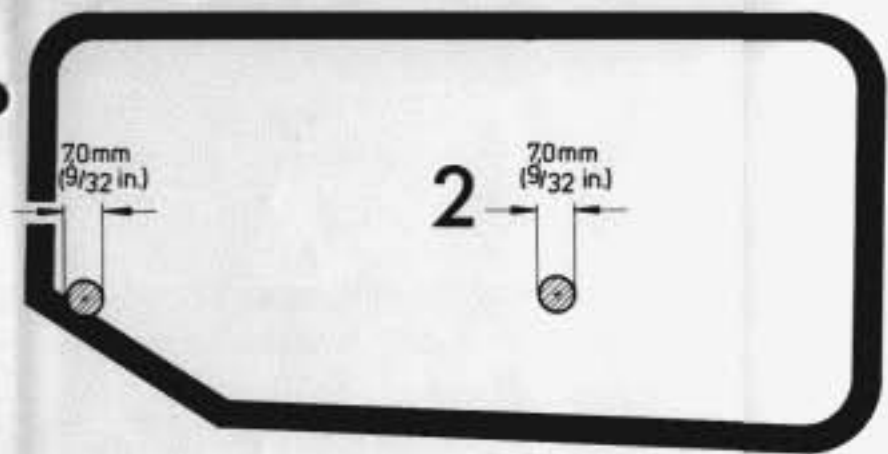
- 16 - Connect rear air circulation duct complete with seal to heater. Connect front air circulation duct to front of heater. Slide center air circulation duct over rear of front duct. Attach center duct to compartment panel.



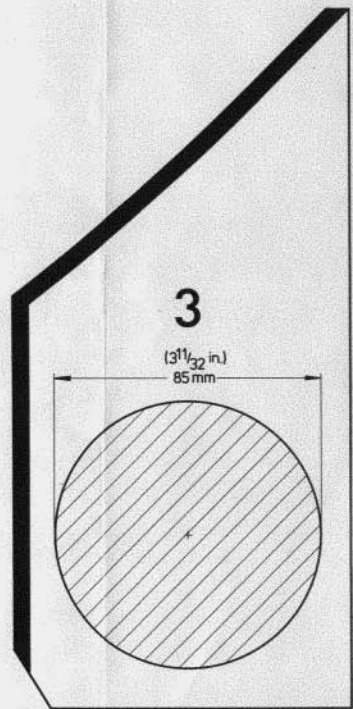
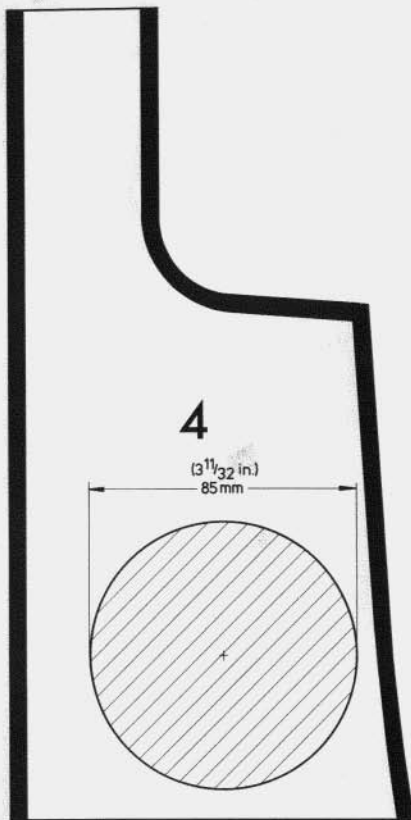
- 17 - Install luggage compartment lining, spare wheel and windshield washer container.
- 18 - Install heater cover plate.



- 19 - Install sticker on fuel tank flap.
- 20 - Connect battery ground strap.
- 21 - Check heater operation with vehicle engine running.

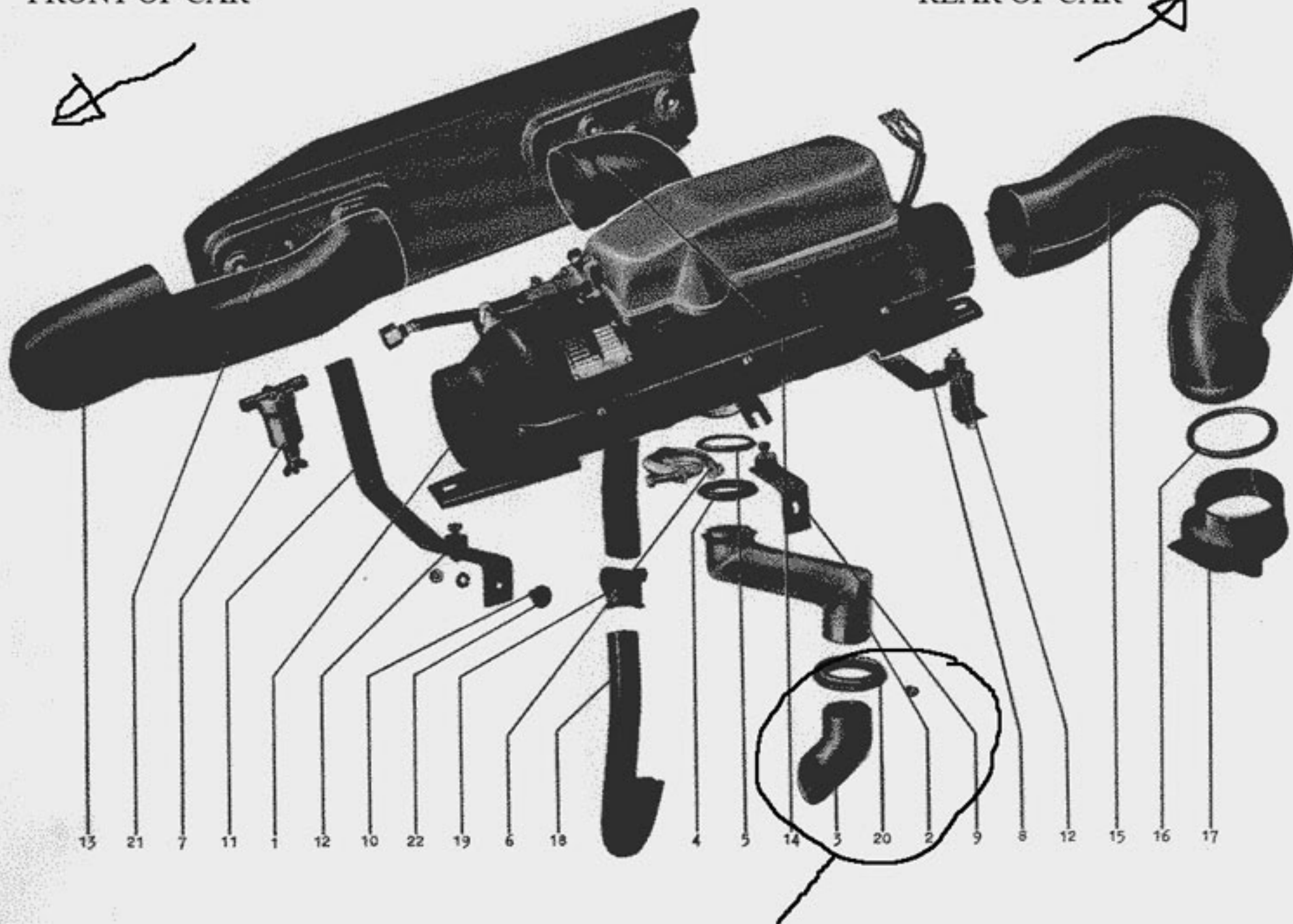


1



FRONT OF CAR

REAR OF CAR



FACING FORWARDS????
COULD THIS BE CORRECT?





