

Air Heaters

Air Top 3500

Air Top 5000

Workshop Manual

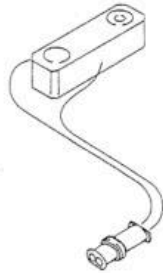
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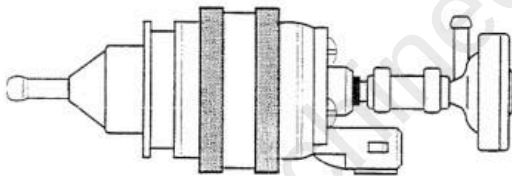
2.6 Analogue Temperature Limiter

The analogue temperature sensor protects the heater against undue high operating temperatures. For protection against overheating the temperature limiter responds at a heating air temperature higher than 150 °C. The control unit disconnects the dosing pump circuit and deactivates the heater with a run-down. After cooling down the circuit is re-established. The heater may be reactivated by switching the heater off and on again using the control element.



2.7 Dosing Pump

The dosing pump is a combined delivery, dosing and shut-off system for the fuel supply of the heater out of the vehicle fuel tank.



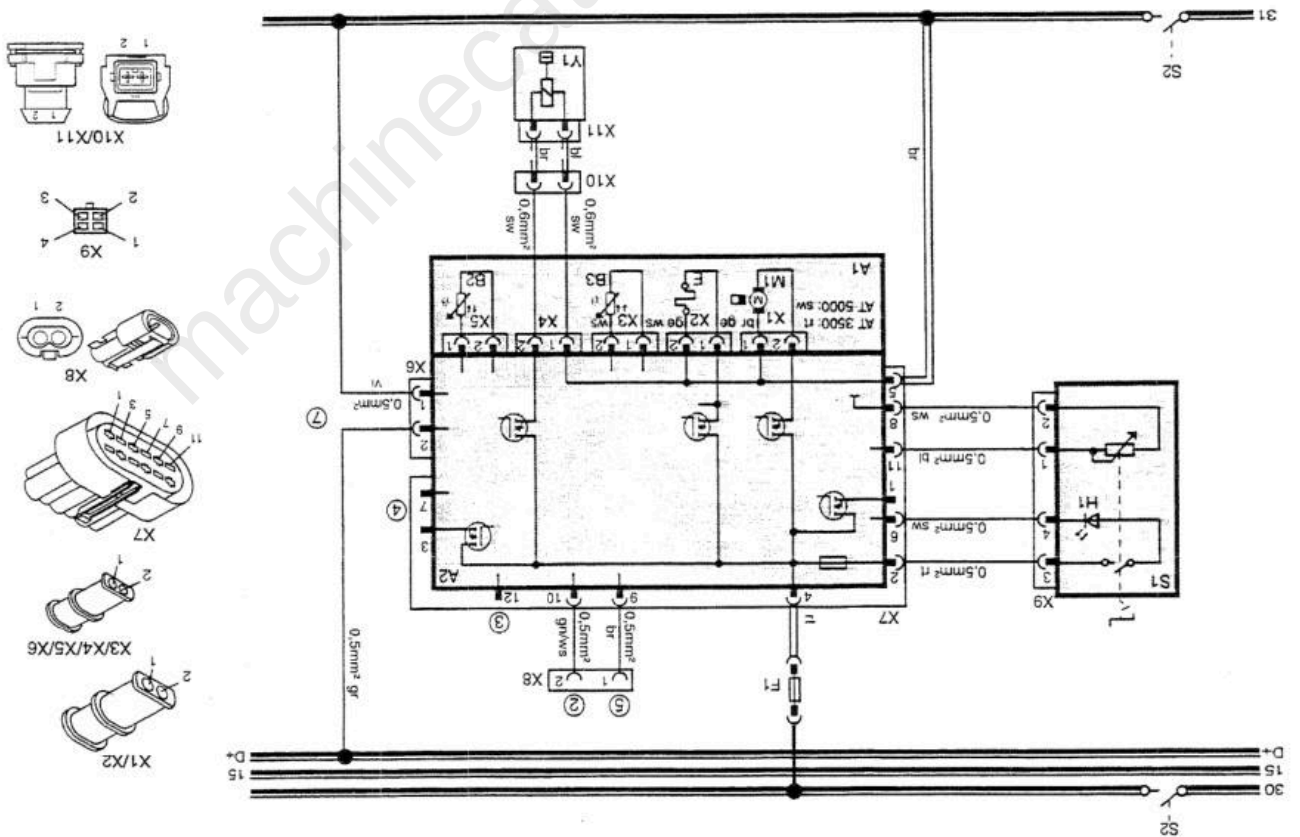
Dosing Pump DP 2 for Fuel Heaters



Dosing Pump DP 30 (without shock absorber)
for Diesel Heaters

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Air Top 3500/5000



- ② Diagnosis line K
- ③ Diagnosis line L
- ④ Input pin (pin 7/connector X7), wire colour on wiring harness: w/s/t/ "ventilate" (fan speed is dependent on control element position)
- ⑤ CO₂ adjustment
- ⑦ **NOTE**
Grey and violet wires required for TRS function

Item	Nomenclature	Remark
A1	Heater	Air Top 3500/5000
A2	Control unit	
B2	Temperature sensor	
B3	Temperature limiter	
E	Glow plug/flame sensor	
F1	Fuse 24V 15A / 12V 20A	Flat fuse SAE J 1284
H1	LED green (in item P1)	Operating indicator light
M1	Motor	Combustion and heating air fan
S1	Control element	Rated value transmitter-switch
S2	Disconnect switch 1 or 2 pole	Emergency off switch
X1	Connection 2 pole	on item A2 (ST B)
X2	Connection 2 pole	on item A2 (ST V)
X3	Connection 2 pole	on item A2 (ST U)
X4	Connection 2 pole	on item A2 (ST Z)
X5	Connection 2 pole	on item A2 (ST Y)
X6	Connection 2 pole	on item A2 (ST X)

[illegible]

Fig. 706 Automatic Switching Circuit Air Top 3500/5000, 24 V TRS Operation with Control Element and no Auxiliary Drive

Wire Gauges	
< 7.5 m	7.5 - 15 m
0.75 mm ²	1.5 mm ²
1.0 mm ²	1.5 mm ²
1.5 mm ²	2.5 mm ²
2.5 mm ²	4.0 mm ²
4.0 mm ²	6.0 mm ²

Wire Colours	
blue	bl
brown	br
yellow	ge
green	gn
grey	gr
orange	or
red	rt
black	sw
violet	vi
white	ws

Full Version Available

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