






## Air Top 2000 Diagnostic

### Legende for circuit diagrams:

Pos.	Designation	Remarks
A1	Heater	Air Top 2000
A2	Electronic control unit	
B1	Flame detector	
B2	Temperature sensor	
B3	Overheating protection	
E	Pencil-type glow plug	
F2	Fuse 24V 10A/12V 15A	flat fuse SAE J 1284
H1	LED	green (in pos. S1)
H6	Lamp (min. 1.2W)	operation indicator of pumping device
H7	LED	red (in pos. P)
H8	Heating symbol in display (in pos. P)	operation indicator, overheating indicator
H9	Lamps (in pos. P)	display illumination
M	Motor	
P1	Combination timer (1531)	
P2	Standard digital timer (1531)	
S1	Control element	setpoint generator switch
S2	Disconnecting switch 1 or 2 poles.	Emergency Stop switch; electr. or pneum.
S3	Push-button switch	instant heating button
S4	Switch	on pumping device I
S5	Switch	on pumping device II
X1-X5	Connector 2pole	at pos. A2
X6	Connector 8pole	at pos. A2
X7	Connector 4pole	at pos. S1
X8	Connector 2pole	
X9	Connector 2pole	at pos. A2
X11	Connector 6pole	at pos. A2
X12	Connector 1pole	diagnostic link (K-lead)
X13	Connector 12pole	at pos. P
Y1	Metering pump,	
Y2	Solenoid valve	for pumping device I
Y3	Solenoid valve	for pumping device II

Wire cross sections		
	< 7.5 m	7.5 - 15 m
	0.75 mm <sup>2</sup>	1.5 mm <sup>2</sup>
	1.0 mm <sup>2</sup>	1.5 mm <sup>2</sup>
	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
	2.5 mm <sup>2</sup>	4.0 mm <sup>2</sup>
	4.0 mm <sup>2</sup>	6.0 mm <sup>2</sup>

Colour of cables	
bl	blue
br	brown
ge	yellow
gn	green
gr	gray
or	orange
rt	red
sw	black
vi	violet
ws	white

- ① Positive voltage from terminal (15/75) to pin 10:  
continuous operation in the instant heating mode as long as ignition is switched on

No positive voltage at pin 10:  
variable heating times can be programmed (10 min up to 120 min),  
basic setting: 120 min

- ② Connections X11/2 and X11/3 only for TRS function