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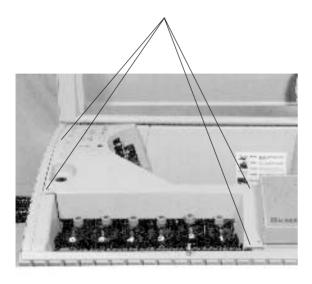
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Table of Contents: General Assembly

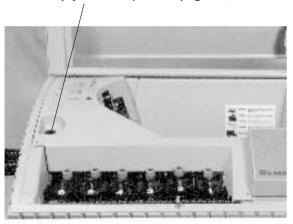
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1. GENERAL ASSEMBLY

- 1.1 Removing the inner casing
- 1.1.1 Remove mounting screws with Phillips screw driver and pull out drain valve



- 1.2 Opening the unit
- 1.2.1 Empty the unit (see BA page 34, section 12.5)



- 1.2.2 Pull out drain valve knob
- 1.2.3 Remove Phillips screws from base



- 1.2.4 Tilt top of unit forward
- 1.3 Closing the unit
- 1.3.1 Before closing the unit, guide connecting pipe for drain valve into opening





Assembly advice: The drain valve knob must positively lock when pushed in (snapping sound)

Service-Documentation

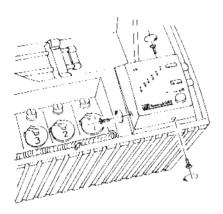
ATL-1500

1.4 Disassembling the control panel (95436)

1.4.1 Open unit cover

1.4.2 Loosen marked screws

Carefully lift and turn around control head housing.



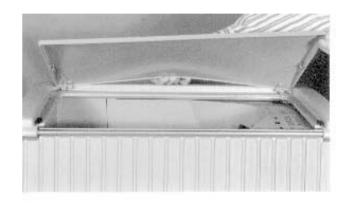
2.3 Closure adjustment

Loosen lock nut, turn closure pin until distance to hex nut approximates 3 thread turns. Check closing performance.

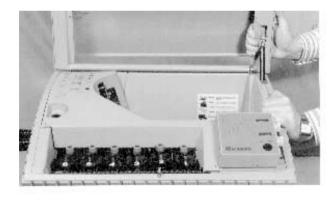
Housing cover must press down all bottle lids.

2.4 Disassembling the cover panel

2.4.1 Disengage cover panel



2. SERVICING THE HOUSING COVER



2.1 Disassembling the cover

First disengage gas-loaded spring then disassemble housing cover.

2.2 Disassembling the cover closure

Remove screws on inside of lid and lift out cover closure.

3. SERVICING THE CHEMISTRY BOTTLES

3.1 Exchanging the bottles

Remove inner casing as explained in section 1.1. Pull out bottle temperature sensor and remove bottle.

3.2 Exchanging the bottle lid panel

Remove inner casing according to section 1.1 of service documentation.

- Remove screw.
- Pull fastening ring apart.
- During assembly, the fastening ring must lock in place at bottle neck.

4. SERVICING THE CIRCULATION PUMP

4.1 Exchanging the pump

- Disassemble inner casing.
- Pull bottle temperature sensor out of bottle (Careful! Temperature sensor is made of glass. Danger of breakage!)
- Remove bottles 1 through 4
- Disengage submersion pump from mounting bracket
- Cut tie wrap.
 - Disassemble control panel. (according section 1.1 of service documentation)
- Cut connecting cord at grommet.
- Exchange pump.
- Attach new cord with clamping pliers or solder.

Attention: Do not confuse cords! + -

Assembly in reverse sequence.

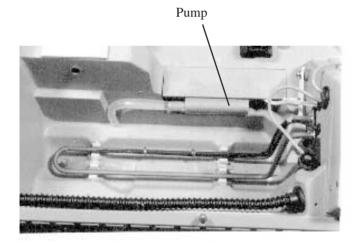
6. DISASSEMBLING THE TEMPERATURE LIMITER

Remove inner casing and disassemble control panel.

Pull bottle sensor out of bottle and remove bottles. Cut tie wrap, loosen holding bracket of heater and detach temperature limiter from heater. Remove mounting screw of temperature limiter. Pull off connectors. Pull limiter out of grommet.

Assembly in reverse sequence.

Advice: Seal cord opening with additional silicon.



5. EXCHANGING THE TEMPERATURE SENSOR

- Open unit.
- Pull connector off main PC-board.
- Disassemble control panel (according section 1.4.)
- Pull cord out of opening.

Assembly in reverse sequence.

Advice: Seal cord opening with additional silicon.

7. REPLACING THE CHEMISTRY HOSES

Remove unit cover and inner casing.

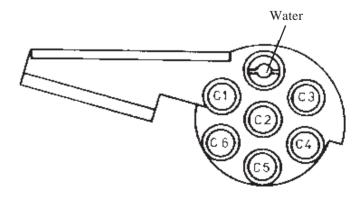
7.1 Removing the chemistry hoses

Pull chemistry hose off bottle and hose collector.

7.2 Installing the new chemistry hose

Glue new hose with 'Sekunden-glue' to hose collector and seal with silicon.

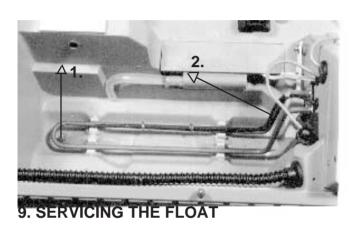
Hose position according to illustration.



8. EXCHANGING THE HEATER

Disassemble inner casing and control panel.
Pull bottle temperature sensor out of bottle and remove bottle. Disengage holding spring for heater and temperature limiter from heater. Apply pull to power cord and loosen mounting nuts with ratchet (7mm). Lift heater at its left corner and pull out of housing.

Assembly in reverse sequence.

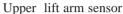


The mounting screw must not be over-tightened in order to assure smooth operation.

10.2 Exchanging the upper lift arm sensor

Remove inner casing.

- Remove sensor
- Cut wire
- Attach new sensor with silicon
- Solder connections and insulate solder point.





10. EXCHANGING THE SENSORS

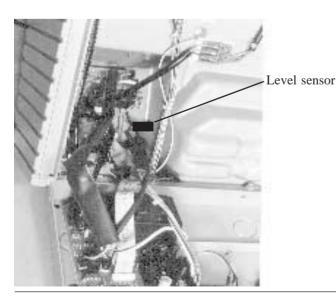
10.1 Replacing the level sensors

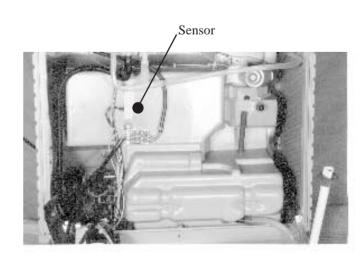
- Disassemble control unit
- Pull push-on connectors off main PC-board.
- Remove sensor.

10.3 Exchanging the lower lift arm sensor

Open unit as explained in section 1.2.

- Pull sensor out of mounting bracket and cut wire.
- Attach new sensor with silicon Solder connections and insulate solder point.





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10.4 Exchanging the air distributor sensor

Open unit

- Remove sensor at air distributor, cut wire.
- Attach new sensor, solder wire and insulate solder point.

10.5 Exchanging the lid sensor

Disassemble control panel.

Disassemble switch PC-board and display PC-board as explained in section 10.2. Remove sensor. Desolder wire.

11. SERVICING THE MOTORS

11.1. Disassembling the lift arm motor

Remove inner casing

- Remove bottles 5 and 6 and cover foil from under hose collector.
- Disassemble gear segment.
- Unscrew mounting screws (1 socket screw / 1 slotted-head screw below Allen screw) and open housing.
- Open cover panel, pull out drive sprocket and motor simultaneously.
- Pull of push-on connectors.
- Note connector position at motor:

connector 1: orange connector 2: brown

- Insert new motor and mount with screws.

Assembly in reverse sequence.

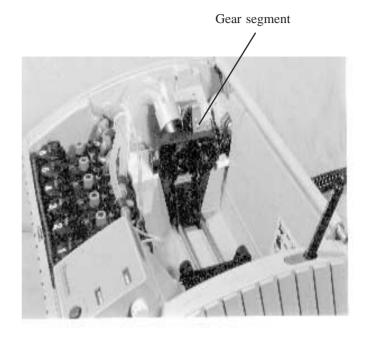
11.2 Detaching the drive motor

Remove inner casing.

 Disassemble gear segment. Loosen 4 screws of lift arm and remove lift arm.

Open unit

Loosen 2 mounting screws of motor and remove motor.



11.3. Disassembling the air distributor motor

- Open unit (see section 1.2.)
- Disengage linkage at chemistry router. Then remove 4 socket screws of air distributor.
- Cut wire harness tie wraps. Remove 4 slotted-head screws and pull off push-on connectors.

Assembly in reverse sequence.

Attention: Make sure chemistry router operates smoothly!

Mounting screws for drive motor



`Lift arm motor

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12. SERVICING THE BASE

12.1 Disassembling the air distributor

Remove inner casing.

- Pull air hoses out of bottles and pull off hose connector elbows.
- Open unit.
- Remove 4 socket screws at air distributor and disengage linkage of chemistry router.
- Pull air hoses out of unit top, loosen push connector.
- Be careful to route main air hose to membrane pump under guide bar!

12.2 Chemistry router

Assembly advice: Be careful to route main air hose

to membrane pump under

quide bar!

12.2.1 Tighten screws of linkage only firm enough to allow for full movement!

- 12.2.2 Position of curve plate at air distributor
 - Zero position (magnet at zero sensor)

12.3. Membrane pump

Assembly advice:

Connection positions: red + white - Attachment of air hose as explained in section 12.1.

Note connector positions:

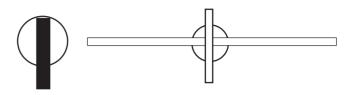
Attention: Protect base from residual water

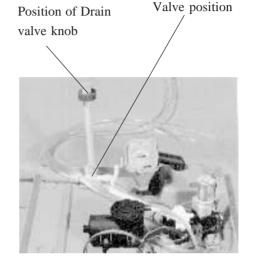
draining from pump when

disassembling.

12.4 Drain valve

Note mounting direction





- Push hoses all the way up and seal with silicon.
- Attach drain valve with tie wrap to base.

13. DISASSEMBLING THE GAS-LOADED SPRING

Open unit

- Remove splash guard foil from side wall.
- Loosen mounting strip for gas-loaded spring at base.
- Disengage gas-loaded spring at cover, remove housing lid according section 2.1.
- Unscrew gas-loaded spring out of mounting blade and pull downward out of housing.

Assembly in reverse sequenceService Documentation

14. SERVICING THE LIFT ARM

14.1 Disassembling the lift arm

Remove inner casing.

Remove gear segment. Remove 4 Phillips screws from lift arm. The lift arm can now be easily removed.

14.2 Replacing the gears with lift arm removed

Disassemble mounting clamps.

- Loosen Phillips screw at transfer sprocket and pull out sprocket toward front.
- Pull out square shaft with pliers.

15. SERVICING THE CONTROL PANEL

15.1 Replacing the EPROM

Refer to insert sheet for EPROM 94069

15.2 Exchanging the power switch

- Pull off connections and control foil
- Push switch out

15.2.1 Disassembling switch and display PC-board

- Pull off control buttons.
- Push spacers of BCD-switches outward and pull out
- Loosen Phillips screws at PC-boards, lift PC-boards and carefully pull out of housing.

15.3 Disassembling the main PC-board

Open unit

- Loosen (5) socket screws at PC-board
- Pull off connectors
- Remove PC-board

Servicemenue ATL 1500

- 1. Start of service test
- Set BCD-Switch in position 16
- Press PLUS and ENTER-Key simultaneously and the switch unit on (SET DEF mode = setting of default values).
- Simulate a closed cover by putting a magnet to the sensor on the left side of the control unit.
- Press PLUS-Key. Display now shows:
- 2. Drum motor and filling pump test
- Set BCD-Switch in position 1. Display shows: **FPS**
- Press PLUS-Key for switching motor one step forward. Sound of working motor should now be heard.
- Press ENTER-Key for turning on the pump green LED "TWA" is on.
- Press ENTER-Key again for turning the pump off.
- 3. Lift arm test
- Set BCD-Switch in position 2. Display shows: Li
- Press PLUS-Key. Liftarm know has to move up, green LED is on
- Press ENTER-Key. Liftarm will move down, green LED is off.

Attention: This check is only possible, if the cover is closed or a magnet is put to the sensor.

- 4. Magnet valve test
- Set BCD-Switch in position 3. Display shows: UA
- Press ENTER-Key magnet valve will open and fill up the unit, green LED is on.
- Press ENTER-Key again magnet valve will close, green LED is off.
- Press PLUS-Key magnet valve will open and closes automatically after 10 seconds
- 5. Temperature Test
- Set BCD-Switch in position 5 Display shows 38°C
- Press PLUS-Key, green Led is on heating period starts
- If temperature is reached an acoustic signal is given an de display shows END

Attention: This test can only be made if the first bottle and the water jacket is filled with water

- 6. Eeprom Test
- Set BCD-Switch in position 6. Display shows: **E2P**

• Press PLUS-Key for test start. After successful termination of the test green LED "TWA" is on. If the test runs with an error the LED is off.

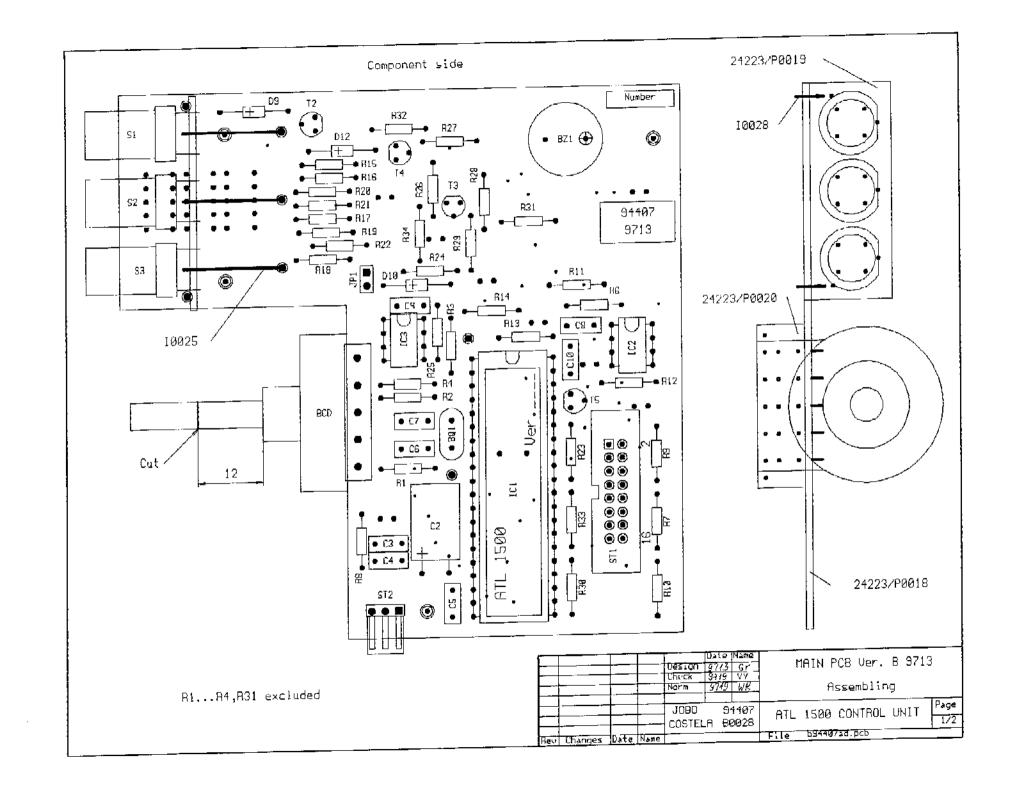
Attention: During test execution all data in Eeprom will be erased and default data will be wrote into Eeprom.

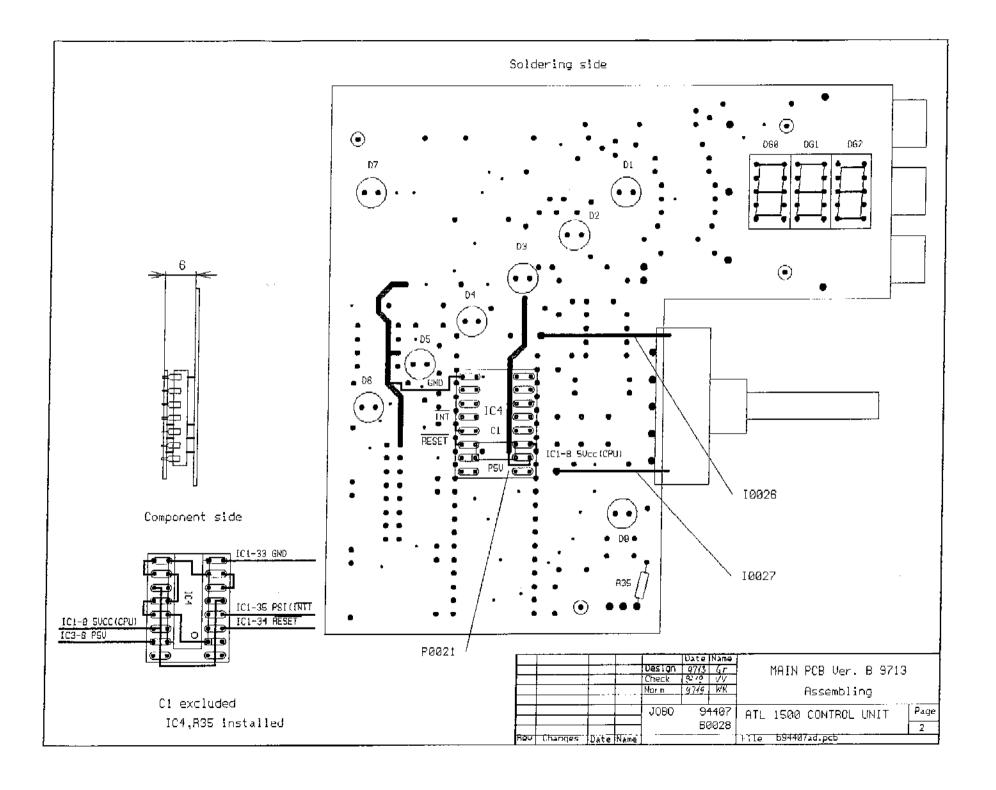
7. Test program

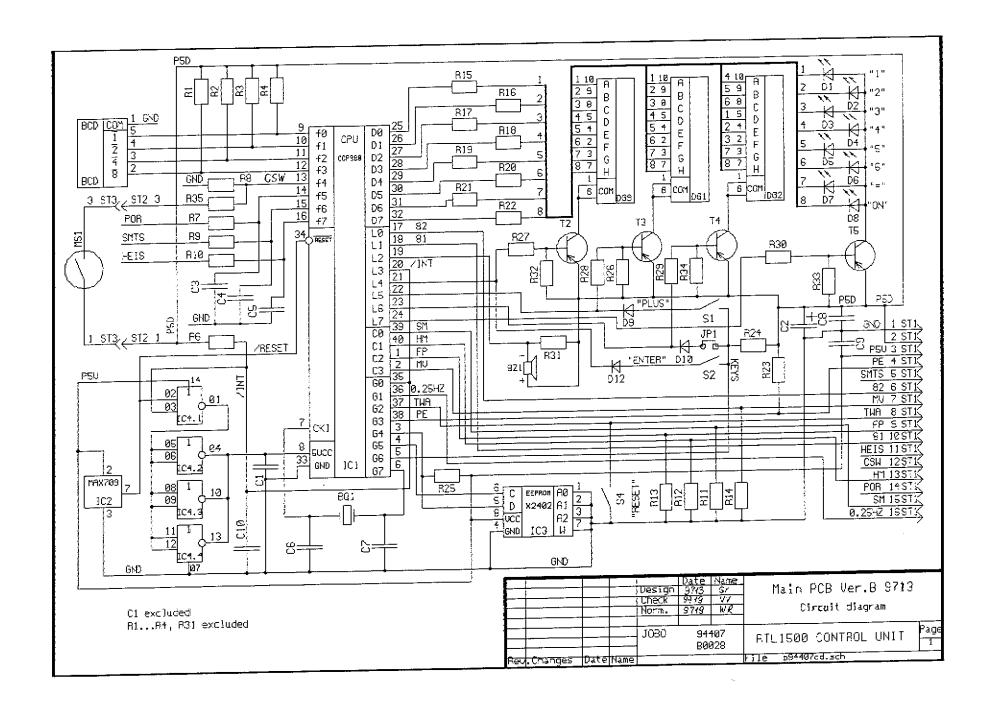
- Set BCD-switch in position 7. Display shows: PRO
- Press ENTER-Key. Test process will be started with following steps.
- Heating 24°C
- Pre Cleaning (30s)
- Chemical 1 (30s)
- Cleaning 1 (30s)
- END

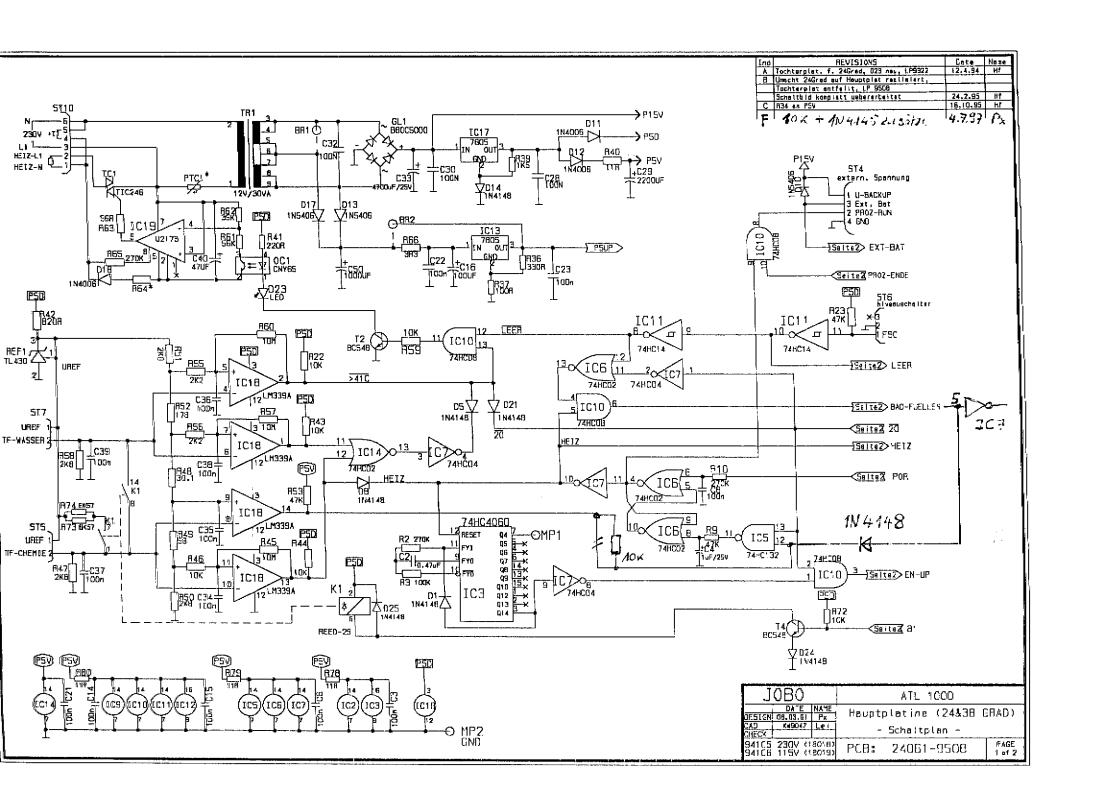
8. Cleaning test program

- Set BCD-switch in position 8. Display shows: FIL
- All bottles have to be filled with water
- Press ENTER-Key and close the cover
- After finishing the program display shows END





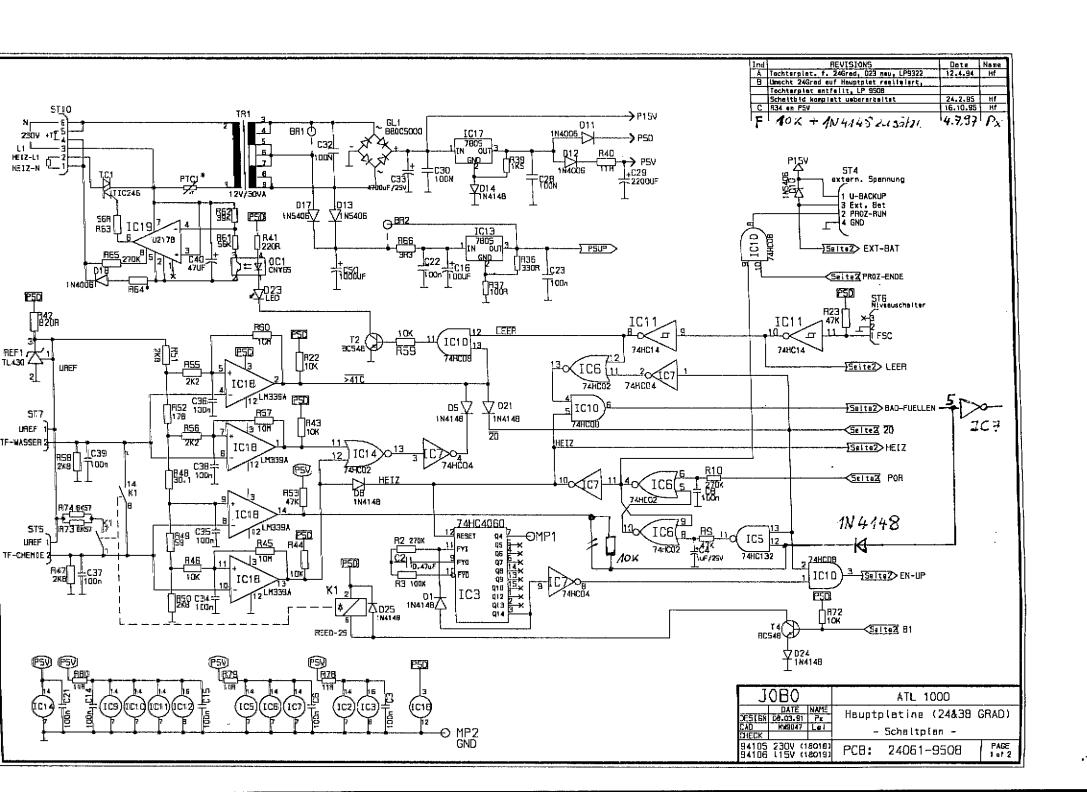


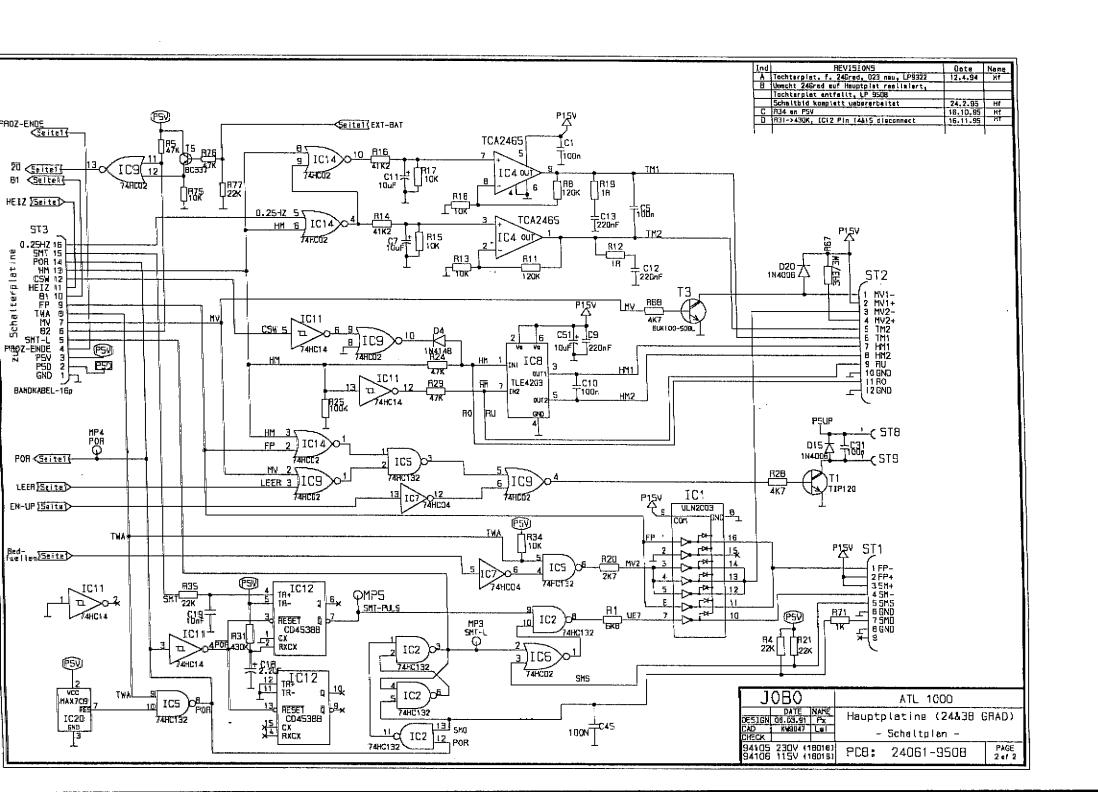


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3	R0087	R6	1 k	CF	1/8 W		3H-0.125-1 кОм +-			
4	R0087	R7	1 k	CF	1/8 W		3Н-9.125-1 кОм +-		10	
5	R0067	R8	10 k	CF	1/8 W		3H-0.125-10 кОм +		10	
6	R0087	R9	1 k	CF	1/8 W		3Н-0.125-1 кОм +-		10	
7	R0087	R10	1 k	CF	I/8 W		3H-0.125-I kOm +-		10	
8	R0067	R11	10 k	CF	1/8 W		3H-0.125-10 kOm +		10	
9	R0067	R12	10 k	CF	1/8 W		3H-0.125-10 кОм +		10	
10	R0067	R13	10 k	CF	1/8 W		3H-0.125-10 kOm +		10	
11	R0067	R14	10 k	CF	1/8 W	/ / C2-3	3H-0.125-10 kOm +	- 10%	19	
12	R0076	R15	200	CF	1/8 W	/ / C2-3	3H-0.125-200 Om +	- 10%	10	
13	R0076	R16	200	CF	1/8 W	/ / C2-3	3H-0.125-200 Om +	- 10%	10	l
14	R0076	R17	200	CF	1/8 W	/ / C2-3	3H-0.125-200 Om +	- 10%	10	
15	R0076	R18	200	CF	1/8 W	7 / C2-3	3H-0.125-206 Om +	- 10%	10	
16	R0076	R19	200	CF	1/8 W	7 / C2-3	3H-0.125-200 Om +	- 10%	10	
17	R0076	R20	200	CF	1/8 W	7 / C2-3	3Н-0.125-200 Ом +	- 10%	10	
18	R0076	R21	200	CF	1/8 W	7 / C2-3	3H-0.125-200 Ом +	- 10%	10	
19	R0076	R22	200	CF	1/8 W	/ / C2-3	3H-0.125-200 Om +	- 10%	10	
20	R0067	R23	10 k	CF	1/8 W	7 / C2-3	3Н-0.125-10 кОм +	- 10%	10	
21	R0067	R24	10 k	CF	1/8 W	/ C2-3	3Н-0.125-10 кОм+	- 10%	10	ı
22	R0107	R25	51 k	CF	1/8 W	7 / C2-3	3Н-0.125-51 кОм +	- 10%	10	
23	R0106	R26	5 k 6	CF	1/8 W	7 / C2-3	3Н-0.125-5.6 кОм	+- 10%	10	ı
24	R0101	R27	430	CF	1/8 W	7 / C2-3	3Н-0.125-430 Ом +	- 10%	10	+
25	R0101	R28	430	CF	1/8 W	7 / C2-3	3H-0.125-430 Ом +	· 10%	10	+
26	R0101	R29	430	CF	1/8 W	/ / C2-3	3H-0.125-430 Om +	- 10%	10	l
27	R0101	R36	430	CF	1/8 W	/ / C2-3	3Н-0.125-430 Ом+	- 10%	10	
28		R31								•
29	R0106	R32	5 k 6	CF	1/8 W	/ / C2-3	3Н-0.125-5.6 кОм	+- 10%	10)
30	R0106	R33	5 k 6	CF	1/8 W	7 / C2-3	3Н-0,125-5.6 кОм	+- 10%	10	,
31	R0106	R34	5 k 6	CF	1/8 W	/ / C2-3	3Н-0.125-5.6 кОм	+- 10%	10)
32	R0019	R35	3 k	CF	1/8 W	7 / C2-3	3H-0,125-3 кОм+-	10%	10)
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Pos	Part No	Ref	Value		escription	Tol % +-	
1				CAPACITORS			
2		C1					
3	41001	C2	10 mKF	ELKO 10.0 mkF x 1	6 V RM 2.5		
4	C0002	C3	100 nF	Cer 50 V / K10-17-H90-0.1 MK Φ +- 20%			
5	C0002	C4	100 nF	Ker 50 V / K	10-17-Н90-0.1 мкФ +- 20%		
6	C0002	C5	100 nF	Ker 50 V / K	10-17-H90-0.1 mkΦ +- 20%		
7	41290	C6	33 pF	Ker 50 V			
8	41290	C 7	33 pF	Ker 50 V			
9	C0002	C8	100 nF	Ker 50 V / K	10-17-Н90-0.1 мкФ +- 20%	-	
10	C0002	C9	100 nF	Ker 50 V / K	10-17-H90-0.1 mk o +- 20%		
11	C0002	C10	100 nF	Ker 50 V / K	10-17-H90-0.1 MKΦ +- 20%		
12							
13					DIODS		
14	26011	Dl	· · · · · · · · · · · · · · · · · · ·	LED 3 mm YELLOW			
15	26011	D2		LED 3 mm YELLOW			
16	26011	D3	_	LED 3 mm YELLOW	,		
17	26011	D4		LED 3 mm YELLOW			
18	26011	D5		LED 3 mm YELLOW			
19	26011	D6		LED 3 mm YELLOW			
20	26010	D 7		LED 3 mm GREEN			
21	26004	D8		LED 3 mm RED			
22	V0002	D9		1N4148 / КД 52	2 Б		
23	V0002	D10		1N4148 / КД 52	2 Б		
24	V0002	D12		1N4148 / КД 52	2 Б	-	
25	·						
26				TRA	NSISTORS		
27	V0006	T2		p-n-p BC557 / KT	3107		
28	V0006	T3		p-n-p BC557 / KT	3107		
29	V0006	T4		p-n-p BC557 / KT	3107		
30	V0006	T5		p-n-p BC557 / KT 3107			
31							
32				INTEG	RAL CIRCUITS		
33	46205	IC1		IC COP8 SAC 740N9		·	
34	46409	IC2		IC MAX 709 S			
35	46608	IC3		IC EEPROM 24 C 02	Α		
36	46712	IC4		IC 74 HC 02			
37				·			
38							
39							
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Rev	Changes	Date	Name		File b94407cl.doc	HIT 1213	

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1				CONNE	CTORS	
2	25088	(IC1)		Plazisions - IC - Fassung 40) - polig	
3	25332	ST1		Steck. Pfosten 16 p M F	CB 180	
4	25348	ST2		Stecky. StL Mini-Elmic 3 I	V PCB	
5	25354	ST3		Steckv. BL Mini-Elmic 3 P	V	
6	25365	(ST3)		Buchsenkontakt Mini-Elmic	A. Rolle	
7	25363	(DG1)		Praz. Buchsenleiste 16 pin	1 Γ V (cut in three)	
8		(DG2)				
9		(DG3)				
10			····	<u>, </u>		
11				KEYS AND	O SWITCHES	
12	20028	BCD		Leiterplattendrensch. 16 B	CD Kempl	
13	20045	Si	•	Taster D6 rund 16 mm,	SW	
14	20045	S2		Taster D6 nund 16 mm,	BW	
15	20045	S4		Taster D6 nund 16 mm,	SW .	, <u></u>
16	20200	MS1		Reedsch. 59025 - 522 Bla	u 18	
17						
18				MISCEL	LANEOUS	
19	26102	BZ1		Buzzer D = 14 mm RM	= 7.6 mm	
20		BQI		Quarz 4 MHz		
21	43200	DG1		LED - Display 7 segm 9	mm ROT, CA	
22	43200	DG2		LED - Display 7 segm 9	mm ROT, CA	
23	43200	DG3		LED - Display 7 segm 9	mm ROT, CA	
24						
25		JP1		Jumper PCB		
26		(JP1)		Jumper		
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Liefereinheit: 18018 ATL1000 Hauptplatine 230V 24&38° INDEX E Leiterplatte: 24061-9508

Leite	erplatte : 4	24061-3200			
1	**	entfällt	2		
	33105	Leiterplatten Netzfilter	1	(Nur	Beistellon)
2	21017	Reed Relais / 5V / 2S / DIP	Τ		
1	23376 22300	BANDKABELSTECKVERBINDER 16p 400KG CIPS	_1	_	12.3 17 /Px
5	25004	LÖTSTIFT RTM 1,3	4		
	25005	eracucerouvillico 6 3mm	2		
7	05000	OMPOUT MINIMOD 12D M 2 5V3 5 180	1		
8	25047	STECKV.MININOD 12F M 2,3x5,3 100 STECKV.MINMOD 3P RM2,5 1reih 180°	ŀ		
. 9			1		
10	25096	STECKV.MINMOD 4P RM2,5*3,5 180° STECKV.MINIMOD 9P RM2,5*3,5 180° STECKV.MINIMOD 2P RM2,5 180° rast	1		
11	25110	STECKV.MINIMOD 2P RM2,5 180° rast	2		
12	25147	SOCKELGEHÄUSE Gpm.St	1		
13	26004	LED D 3mm ROT	1		
14	34116	ZYL.SCHR.M3x6 DIN 84 V2A	4		
15	34401	MUTTER M3 V2A DIN 934	3		
16	35106	LÖTMUTTER M3	1		
17	40001	WIDERSTAND 1 OHM 10%	2		
18	40010	WIDERSTAND 11 OHM 1/4 W	4		
19	40018	WIDERSTAND 100 OHM 1/4 W	1		
20	40023	WIDERSTAND 220 OHM 1/4 W	1		
21	40028	SOCKELGEHÄUSE Gpm.St LED D 3mm ROT ZYL.SCHR.M3x6 DIN 84 V2A MUTTER M3 V2A DIN 934 LÖTMUTTER M3 WIDERSTAND 1 OHM 10% WIDERSTAND 11 OHM 1/4 W WIDERSTAND 100 OHM 1/4 W WIDERSTAND 220 OHM 1/4 W WIDERSTAND 330 OHM 1/4W WIDERSTAND 36 OHM 1/4W WIDERSTAND 56 OHM 1/4W WIDERSTAND 3,30HM/3W/MAX.Dx1=6x1 WIDERST.3,3 OHM/5W/MAX.dx1=10x27 WIDERSTAND 820 OHM 1/4 W	1		
22	40029	WIDERSTAND 56 OHM 1/4W	1		
23	40034	WIDERSTAND 3,30HM/3W/MAX.Dx1=6x1	1.		
24	40035	WIDERST.3,3 OHM/5W/MAX.dxl=10x27	1		
25	40050	WIDERSTAND 820 OHM 1/4 W	1		
26	40060	WIDERSTAND 1 K OHM 1/4 W	1		
27	40075	WIDERSTAND 1,5 KOHM	1		
28	40083	WIDERST.3,3 OHM/5W/MAX.GRI-10x2/ WIDERSTAND 820 OHM 1/4 W WIDERSTAND 1 K OHM 1/4 W WIDERSTAND 2,2 K OHM 1/4 W WIDERSTAND 2,7 KOHM 1/4 W WIDERSTAND 4,7 K OHM 1/4 W WIDERSTAND 6,8 K OHM 1/4 W WIDERSTAND 10 K OHM 1/4 W WIDERSTAND 22 K OHM 1/4 W WIDERSTAND 22 K OHM 1/4 W WIDERSTAND 2W 18 KOHM WIDERSTAND 39 KOHM 1/4 W WIDERSTAND 39 KOHM 1/4 W WIDERSTAND 47 K OHM 1/4 W	2		
29	40086	WIDERSTAND 2,7 KOHM 1/4 W	1 2		
30	40100	WIDERSTAND 4,7 K OHM 1/4 W	2		
31	40106	WIDERSTAND 6,8 K CHM 1/4 W	1 8		
32	40110	WIDERSTAND 10 K OHM 1/4 W	4		
33	40115	WIDERSTAND 22 K OHM 1/4 W	1		
34	40119	WIDERSTAND 2W 18 KOHM	1		
35	40122	WIDERSTAND 39 KOHM 1/4 W	7		
36	40124	WIDERSTAND 47 K OHM 1/4 W	1		
37	40125	WIDERSTAND 56 KOHM 1/4 W	1 2		
38	40128	WIDERSTAND 100 K OHM 1/4 W	3		
39		WIDERSTAND 270 K OHM 1/4 W	1		
(40	40136	WIDERSTAND 470 K CHM 1/4 W	1		
(41	40137	Widerstand 430KOhm 1/4W 5%		1	
42	40153	WIDERSTAND 10 M OHM 1/4 W	3 2		
43	40305	WIDERSTAND 120 K OHM 1/4 W 1%	4		
44	40307	WIDERSTAND 10 K OHM 1/4 W 1%	2		
45	40328	WIDERSTAND 41,2 K OHM 1/4 0,1% WIDERSTAND 1/4W 2,8 KOHM +/-0,1%	4		
46	40335	WIDERSTAND 1/4W 2,3 ROIM +/-1%	í		
47	40336	WIDERSTAND 1/4W 50,1 CHR +/ 18 WIDERSTAND 1/4W 59 OHM +/-18	ī		
48	40337	WIDERSTAND 1/4W 39 CHM +/-1% WIDERSTAND 1/4W 178 CHM +/-1%	ī		
49		Widerstand 6,57 KOHM ±0.1% (0207)	2		
50		PTC-ÜBERLASTUNGSSCHUTZ 260mA/265	1		
51		ELKO 100 UF 40 V RM 5 STEH.	1		
52	41010	ELEO 100 OF TO VICE S SIDE.	_		

Liefereinheit: 18018 ATL1000 Hauptplatinc 230V 24&38° INDEX E Leiterplatte : 24061-9508 <u>-</u> 53 41020 ELKO 10uF/63V/max.6,5x12/RM 2,5 1
54 41034 ELKO 1000 MIKROF./25V/dxh=10x23 1 1 22 8 1

Pos 1: Netzfilter besitellen , siehe auch Steckbrief und Bestückungsplan Pos 40 & 41: R31 Alternativen, siehe auch Steckbrief