

Edition 11/1998

Commercial Tumble Dryers

T 5205, T 5205 C,
T 5206, T 5207

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Service Department
Technical Training
Krage/Kra/Trans/CJ

Group: 5

1. Construction and Design

Miele Professional T 5205			
⇨ Door ✱ Light ↓ Low temperature ⇨ Start	⇨ Delay start ⚙️ Drying ⇨ Cool air ⚙️ Anti-crease → End ⚙️ Check drain	☉ Cottons ● Extra dry ● Normal+ ● Normal ● Hand iron ◊ ● Hand iron ⚙️ ● Machine iron	☉ Minimum iron ● Normal+ ● Normal ● Hand iron ☉ Timed drying ● Cool air 15 mins ● Hot air 20 mins

T 5205

Miele Professional T 5205 C			
⇨ Door ✱ Light ↓ Low temperature ⇨ Start	⚙️ Drying ⇨ Cool air ⚙️ Anti-crease → End ⚙️ Check drain	☉ Cottons ● Extra dry ● Normal+ ● Normal ● Hand iron ◊ ● Hand iron ⚙️ ● Machine iron	☉ Minimum iron ● Normal+ ● Normal ● Hand iron ☉ Timed drying ● Cool air 15 mins ● Hot air 20 mins

T 5205 C (without "Delay start")

Miele Professional T 5206			
⇨ Door ✱ Light ↓ Low temperature ⇨ Start	⇨ Delay start ⚙️ Drying ⇨ Cool air ⚙️ Anti-crease → End	☉ Cottons ● Extra dry ● Normal+ ● Normal ● Hand iron ◊ ● Hand iron ⚙️ ● Machine iron	☉ Minimum iron ● Normal+ ● Normal ● Hand iron ☉ Timed drying ● Cool air 15 mins ● Hot air 20 mins

T 5206

Miele Professional T 5206			
⇨ Door ✱ Light ↓ Low temperature ⇨ Start	⚙️ Drying ⇨ Cool air ⚙️ Anti-crease → End	☉ Cottons ● Extra dry ● Normal+ ● Normal ● Hand iron ◊ ● Hand iron ⚙️ ● Machine iron	☉ Minimum iron ● Normal+ ● Normal ● Hand iron ☉ Timed drying ● Cool air 15 mins ● Hot air 20 mins

T 5206 (without "Delay start")

1.1 Features

- 1.1.1 T 5205, T 5205 C
Air-cooled condenser dryer with reversing action
Miele single-coat enamelled casing
Door hinged on left
Fully opening front panel
Coin mechanism can be retrofitted
- 1.1.2 T 5206
Vented dryer with reversing action
Free-standing machine with stainless-steel lid
Miele single-coat enamelled casing
Door hinged on left
Fully opening front panel
Coin mechanism can be retrofitted

Group: 5

1.2 Technical data

1.2.1 T 5205

Load capacity / ratio	6 kg dry laundry 1:21		
Type of heating	Electric		
Packaging dimensions	H	cm	98.0
	W	cm	68.0
	D	cm	81.0
Machine dimensions	H	cm	85.0
	W	cm	59.5
	D	cm	70.0
Weight	Gross (normal freight)	kg	70.95
	Net	kg	60.00
Max. floor load in operation		N	706
Total rated load		kW	2.86
Heater rating		kW	2.5
Drive motor rating		W	200
Fan motor rating		W	115
Condensate pump rating		W	19
Fuse rating			
50 Hz 230 V 1		A	1 x 16
Supply lead cross-section EL			
50 Hz 230 V 1		mm ²	3 x 1.5
Condensed water drain dia.		mm	10
Evaporation rate		l/h	Approx. 2.3
Drying time ¹ /max. laundry load ²		min	
			96 1 "Extra dry"
			87 2 "Normal+"
			85 3 "Normal"
			74 4 "Hand iron ♠ "
			66 5 "Hand iron ♠♠ "
			57 6 "Machine iron"
Power consumption/ max. laundry load		kWh	
			4.1 1 "Extra dry"
			3.7 2 "Normal+"
			3.5 3 "Normal"
			3.0 4 "Hand iron ♠ "
			2.7 5 "Hand iron ♠♠ "
			2.2 6 "Machine iron"
Fan Max. capacity		m ³ /h	115 at p = 0 mbar

Drum	Diameter	cm	56.5
	Depth	cm	53.0
	Volume	l	126
	Speed	1/min	48
	Linear speed	m/s	1.42
	Door diameter	cm	36.0
Material	Drum Ducting Casing		Stainless steel 1.4301 Plastic / Aluminium Single-coat enamel
Noise level:			64.5 dB (A)
Test certificates:			VDE; Interference suppression
1) Including 10 minutes cold air 2) Turkish towelling with 55% residual moisture			

Group: 5

1.2.2 T 5206

Load capacity / ratio			6 kg dry laundry 1:21	
Type of heating			Electric	
Packaging dimensions	H	cm	98.0	
	W	cm	68.0	
	D	cm	81.0	
Machine dimensions	H	cm	85.0	
	W	cm	59.5	
	D	cm	70.0	
Weight	Gross (normal freight)		kg	
	Net		kg	
Max. floor load in operation			N	
Total rated load			kW	
Heater rating			kW	
Drive motor rating			W	
Fan motor rating			W	
Fuse rating				
50 Hz 400 V 3N		A	3 x 10	
50 Hz 230 V 1		A	1 x 16	
Supply lead cross-section EL				
50 Hz 400 V 3N		mm ²	5 x 1.5	
50 Hz 230 V 1		mm ²	3 x 1.5	
Vent connection dia.			mm	
Evaporation rate			l/h	
Drying time ² /max. laundry load ³			min	
			58	1 "Extra dry"
			49	2 "Normal+"
			47	3 "Normal"
			41	4 "Hand iron ▲ "
			38	5 "Hand iron ▲▲ "
			32	6 "Machine iron"
Power consumption/ max. laundry load			kWh	
			4.2	1 "Extra dry"
			3.4	2 "Normal+"
			3.2	3 "Normal"
			2.7	4 "Hand iron ▲ "
			2.4	5 "Hand iron ▲▲ "
			2.0	6 "Machine iron"
Fan Max. capacity			m ³ /h	
			240 at p = 0 mbar	

Drum	Diameter	cm	56.5
	Depth	cm	53.0
	Volume	l	126
	Speed	1/min	48
	Linear speed	m/s	1.42
	Door diameter	cm	36.0
Material	Drum Ducting Casing		Stainless steel 1.4301 Plastic / Aluminium Single-coat enamel
Noise level:			63.5 dB (A)
Test certificates:			VDE; Interference suppression
<ol style="list-style-type: none">1) Convertible to 3.2 kW for 230 V 50 Hz (German standard version)2) Including 10 minutes cold air3) Turkish towelling with 55% residual moisture			

1.2.3 T 5207

Capacity (Dry laundry)/Ratio			6 kg/1:21		
Heating			Electric		
Packaging dimensions Normal/Sea	W	cm	68 / -		
	D	cm	81 / -		
	H	cm	98 / -		
Gross weight	Normal	kg	68.3		
	Sea	kg	-		
Machine dimensions	W	cm	59.5		
	D	cm	70.0		
	H	cm	85.0		
Net weight		kg	57.0		
Max. floor load in operation		N	677		
Total rated load (EL)		kW	6.9		
Heater rating		kW	6.6 ¹		
Motor rating	Drive	W	150		
	Fan	W	150		
3N AC 400 V 50 Hz		A	3 x 10		
Fuse rating ²					
1 AC 230 V 50 Hz		A	1 x 16		
3N AC 400 V 50 Hz		mm ²	5 x 1.5		
Supply lead EL ³					
1 AC 230 V 50 Hz		mm ²	3 x 1.5		
Vent dia.		mm	100		
Evaporation rate		Approx. l/h	5.7		
Initial residual moisture		%	30	55	Setting ^{7 8}
Drying time/Load ^{4 5 6} In accordance with IEC 1121	min			50	1 Extra dry
				41	2 Normal +
				39	3 Normal
				33	4 Hand iron ♠
				30	5 Hand iron ♠♠
				26	6 Machine iron
Energy consumption/Load In accordance with IEC 1121	kWh			4.8	1 Extra dry
				3.8	2 Normal +
				3.6	3 Normal
				2.9	4 Hand iron ♠
				2.5	5 Hand iron ♠♠
				2.0	6 Machine iron
Fan					
Max. capacity		m ³ /h	320 at p = 0 mbar		
Max. permitted static pressure		mbar	1		

Heating			Electric
Drum	Diameter	mm	565
	Depth	mm	530
	Volume	l	126
	Speed	1/min	48
	Linear speed	m/s	1.42
	Door diameter	mm	360
	Material	Plinth	-
	Drum	Stainless steel 1.4301	
	Ducting	Plastic	
	Casing	Single-coat enamel	
Heat dissipation rate: MJ/h			
Noise power level: 63.5 dB (A) In accordance with DIN			
Test certificates: VDE; Interference protection			
1) Convertible to 3.7 kW with 1 AC 230 V 50 Hz			
2) German operating classification: gL			
3) Minimum cross-sectional area in accordance with VDE 0100 part 430/group 2			
4) Laundry type:			
Turkish towelling in accordance with DIN 44986 with 55% residual moisture			
5) Residual moisture established in accordance with DIN 11901 and DIN 11902			
6) Including 10 min cold air			
7) Setting 10: 15 min cold air			
8) Setting 11: 20 min hot air			

1.3 Condensate pump

1.3.1	T 5205, T 5205 C	19 W
		Head height 1 m
		Max. hose length 3 m

1.4 Condensate drainage to the rear

1.4.1	T 5205, T 5205 C	Drain connection with non-return valve:
		Outer dia. = 10.0 mm
		Inner dia. = 10.0 mm
		Outer dia. = 14.5 mm
		Available by the metre from the Spares Department
		Accessories: Drain hose 1.5 m
		Hose holder
		Hose sleeve

1.5 Vent connection

1.5.1	T 5206	Dia. 100 mm, optionally at the rear or on the left
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1.6 Control

			With "Delay start"	Without "Delay start"
1.6.1	T 5205, T 5205 C	Power module	EL 352	EL 352
		Control module	EPW 381	EPW 382
		Display module	EZ 331	EZ 332
1.6.2	T 5206	Power module	EL 351	EL 351
		Control module	EPW 381	EPW 382
		Display module	EZ 331	EZ 332

1.7 "Delay start"

Up to 9 h

Without "Delay start"	Since Machine no.	13903444	T 5205, T 5205 C
		13855396	T 5206

Note:

When using the EPW 382 and EZ 332 modules, a reduction in the overriding time control is possible (units without "Delay start").

- 1.8 **Drying programmes**
- "Cottons"
 - "Extra dry"
 - "Normal +"
 - "Normal"
 - "Hand iron ♠"
 - "Hand iron ♠♠"
 - "Machine iron"

 - "Minimum iron"
 - "Normal +"
 - "Normal"
 - "Hand iron"

 - "Timed drying"
 - "15 min cold air"
 - "20 min hot air"

2. Installation T 5206

2.1 Installation as a free-standing unit

To ensure fault-free operation, the unit should be installed perfectly level.

Any unevenness in the floor can be compensated for by adjusting the 4 screw-in feet.

2.2 Installation as a washer-dryer stack

The dryers T 5205, T 5205 C and T 5206 can be combined with the washer-extractor WS 5425 to form a washer-dryer stack by using the Conversion Kit WTV 5051. Instructions are included with the kit.

2.3 Exhaust vent connection

The unit is supplied as standard with its vent opening to the rear. The vent opening can be changed to the left by exchanging the vent connection and the vent outlet cover.

To avoid unduly hindering through-flow, exhaust ducting should be kept as short as possible, and sharp angles and corners should be kept to a minimum.

Galvanised metal, plastic or flexible aluminium ducting can be used for the vent duct. For diameter details see Table 2.

2.4 Calculating the total duct length

- After measuring the actual duct length required, use Tables 1 and 2 to establish the effective duct length and the necessary duct diameter.

- a) Note the number and type of bends required.
- b) Use Table 1 to establish the additional duct length factor for each bend. Add these additional length factors to the actual measured length to give the effective length.
- c) The recommended duct diameter, or the internal edge length of square ducts, appropriate for the effective duct length can then be taken from Table 2.

Table 1

Type of bend and material	Angle	Radius R in mm	Additional length factor in m
Flexible duct	90°	100	0.50
	90°	200	0.40
	90°	400	0.35
	45°	100	0.30
	45°	200	0.25
	45°	400	0.25
Smooth duct Plastic drain pipe Cement duct	90°	100	0.35
	90°	200	0.25
	45°	100	0.25
	45°	200	0.15
Elbow	90°		2.30
Concertina bend	90°	200	0.70
Wall vent with louvre Wall vent with flap			3.60
			1.25
Vent connection to left			4.90

Table 2

Total duct length	Internal diameter or edge length
0 - 8 m	100 mm ø
8 - 12 m	110 mm ø
12 - 17 m	120 mm ø
17 - 23 m	130 mm ø
23 - 31 m	140 mm ø
31 - 41 m	150 mm ø

Note:

The exhaust duct must **not** be connected to a chimney already being used to vent any fuel-burning units.

2.5 Vent connection with regard to other nearby units

If gas-fired through-flow heaters, gas fires, coal-burning units or similar, are located in the same or nearby room as the dryer then there is a danger of exhaust fumes being sucked back.

Risk of suffocation!

It is important to ensure that appropriate measures are taken to provide for adequate ventilation.

2.6 Air intake

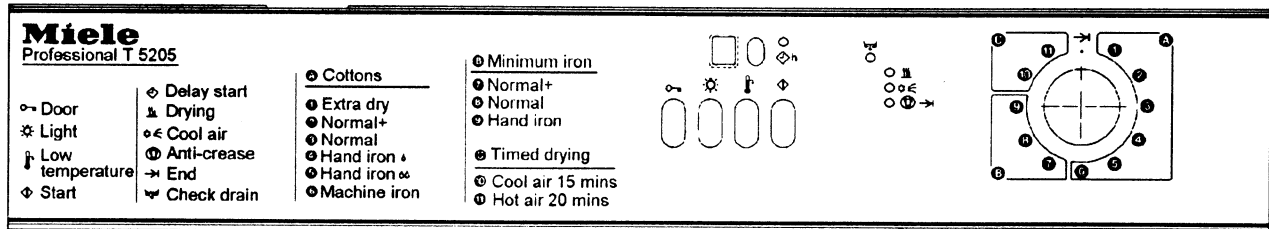
The following are examples of suitable methods to provide sufficient air intake:

Permanent vent in an exterior wall with a minimum cross-sectional area of 150 cm².

The installation of a window switch which only permits the unit to be switched on if a window is open.

In multi-unit installations, or in case of any doubt, it is always advisable to have a safety check carried out by the appropriate authority to ensure that all necessary safety measures have been taken.

3. Commissioning and Operation



1

3.1 Pushbutton switches

3.1.1 "Door" pushbutton

Operate this button to open the door.

3.1.2 "Light" pushbutton

If the door is open and this button is pressed, the interior light switches on.

3.1.3 "Low temperature" pushbutton

This button should be operated when sensitive textiles are being dried (textiles with the wash care symbol ).

3.1.4 "Start" pushbutton

To start the selected dryer programme.

3.1.5 "Programme selector" switch

"Cottons" and "Minimum iron" laundry loads each have their own range of drying programmes.

There is also a 20-minute timed drying programme (including an 8-minute cooling phase), as well as a 15-minute cool air programme for airing laundry items.

After a short power failure, the machine restarts automatically when power is restored. After a longer break in supply, the unit must be restarted with the "Start" pushbutton. In both cases the selected programme and the overriding time control start again from the beginning.

The programme will not start again if:

- The power failure duration has exceeded the buffer time.
- The programme has reached the **cool air** or **anti-crease action** stages.

To select a new programme while drying:

- Select the desired programme.
- The new programme then starts from the beginning.

3.1.6 Programme sequence indicator

These indicator lamps show the current stage of a programme in operation.

3.1.7 Drying stage indicator

The digital display shows the drying stage that has been reached. During the **anti-crease action** stage, a "0" is displayed.

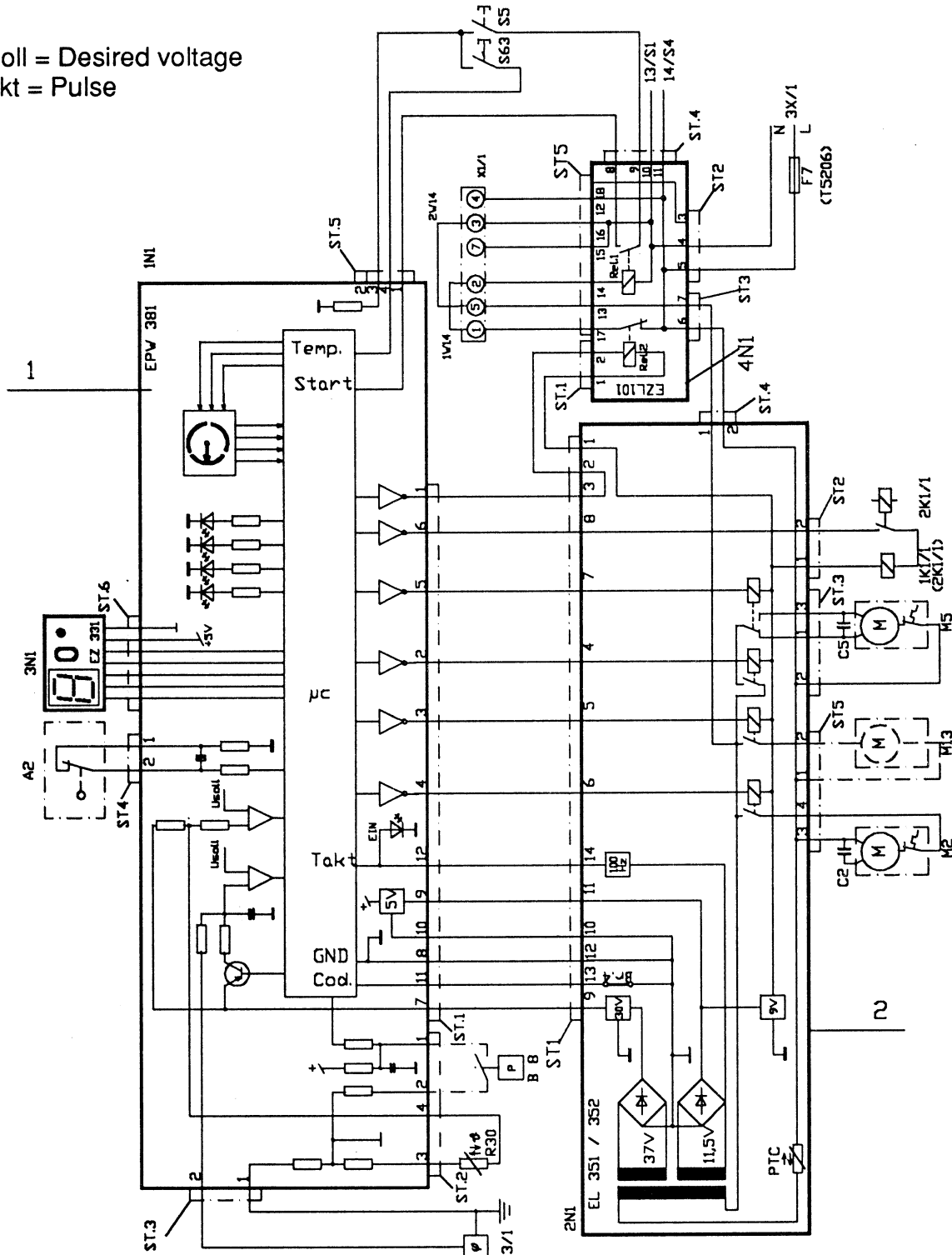
3.1.8 "Delay start" (where available)

- Programme pre-selection is **possible** when the **"Start"** pushbutton has not been pressed.
- When the **"Delay start"** button is pressed, programme start is delayed by one hour. Each further operation of the button increases this time by one hour up to a maximum of 9 hours. If it is then pressed again the delay is cancelled.
- The selected delay before the programme starts is indicated in the digital display.
- After the selector switch has been used to choose a programme, the **"Start"** button **must** be pressed.
- The delay shown in the digital display counts down automatically after each full hour has elapsed.
- The **"Delay start"** feature is only available on those models that have the appropriate control next to the digital display.

4.1.1 Function of the EPW control module (Fig. 1)

The schematic diagram shows the control module (1) with its microprocessor (μC) and the power module (2).

Usoll = Desired voltage
Takt = Pulse



2

With the T 5206 model, using the EL 351, bridge connection 4 (Br. 4) and condensate pump M13 are not present.

Programme selection

- Programmes are selected using a mechanical rotary switch with 12 programme settings.
- Each residual moisture stage corresponds to a specific electrical resistance level of the wet laundry load.

Additional function

- The "**Low temperature**" option is controlled by switch S63 which programmes the microprocessor accordingly.

Temperature monitoring

- Temperature in the drum is monitored by the NTC sensor (R30) and its resistance is compared at the control module with the desired value stored in memory. The temperature of the laundry load is then regulated via the heater relays 1K1/1 and 2K1/1 which switch the heater elements as appropriate.

Condenser dryers only

The cooling fan operates immediately and not only after a particular drying-air temperature has been reached.

Water level control - Condensate container

T 5205, T 5205 C

- The water level in the condensate container is only monitored after completion of the first 60 seconds of the drying programme. In the ensuing programme, the drying stage is terminated and the cooling down and anti-crease action stages begin if the aggregate time that the level control contact remains closed totals 30 seconds.

4.1.2 Function of the EL 351 / EL 352 power module

- The power module supplies two different voltages via a built-in transformer.
- Rectification is carried out on the power module.
- The higher of the two voltages (30 V) is required for the residual moisture sensing circuit and for monitoring temperatures.
- The lower voltage (9 V) is used for the relay power supply. The relays controlling the condensate pump, fan and the drum drive motor are located on the power module. The heater relay is separate from the module. All relays are switched on by a signal with negative potential.
- The signal supplied by the power module is derived from the mains frequency. It is used by the control module as a time control. These models can be connected to either 50 or 60 Hz mains supplies without any time faults occurring.

4.2 Maximum programme duration

In all residual moisture programmes, a timing pulse generator is activated when a programme is started. This automatically limits the drying time to 240 minutes (T 5205, T 5205 C) or 130 minutes (T 5206), after which the cooling down stage is completed, followed by anti-crease action.

4.2.1 Reduced maximum programme duration

Machines with a digital display **without** the "**Delay start**" feature have an additional bridge soldered on the electronic unit. If this bridge is cut through, the maximum programme duration is reduced to 150 minutes (T 5205, T 5205 C) and 90 minutes (T 5206).

4.3 Service programme

Individual components, controls and the LEDs can be checked in the service mode. This mode is only intended for use by service personnel.

4.4 Fault indication

Some faults which may occur during operation are indicated by the LEDs.

4.5 Miele Sensitive System (Fig. 3)

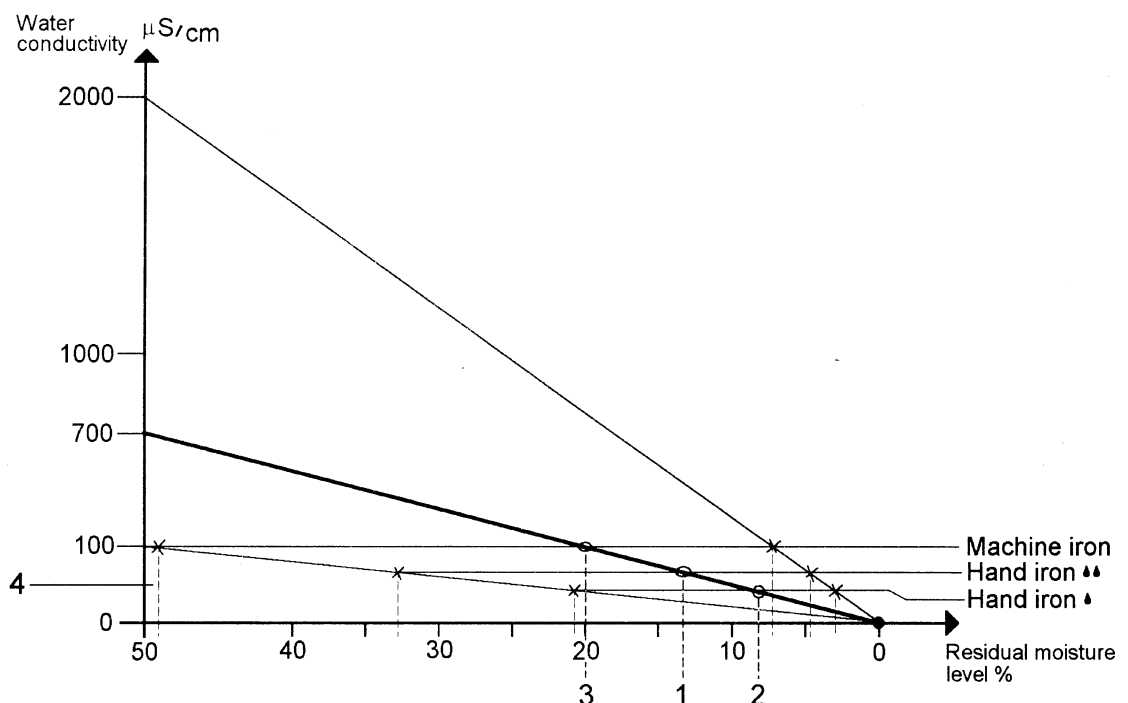
Sensitive System = Fully automatic conductivity compensation

This system ensures that drying results for the "**Machine iron**" and "**Hand iron**" programmes remain constant and are not affected by variations in water quality and conductivity.

Principle of operation:

During the first few minutes of a "**Hand iron**" or "**Machine iron**" drying programme the conductivity of the rinse water remaining in the laundry is measured. The microprocessor then adjusts the length of the drying cycle accordingly, to compensate for measured differences of conductivity (caused by impurities in the water), and so ensures that the final residual moisture levels are correct for the programme selected.

Mains water conductivity range:
Approx. 50 $\mu\text{S}/\text{cm}$ - 2000 $\mu\text{S}/\text{cm}$





3

The following occurs during the first few minutes of drying:

- The water conductivity is measured (4).
- The programme length is adjusted (= conductivity compensation) in accordance with the conductivity measured.

Fig. 3 shows the following various residual moisture levels:

- (1) = 13 % Hand iron 
- (2) = 8 % Hand iron 
- (3) = 20 % Machine iron

These values are reached irrespective of the composition of the water.

5. Service and Maintenance

General information

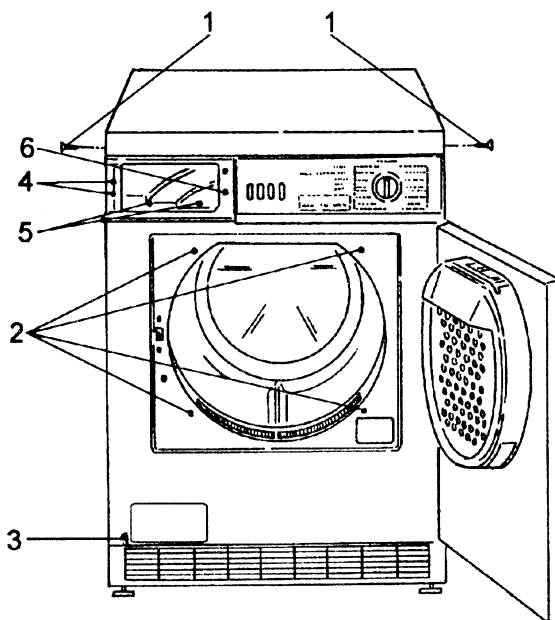
Service and repair work should only be carried out by qualified persons in accordance with local and national safety regulations.

The appliance should be disconnected from the mains before work is commenced.

5.1 Removing the machine lid

- a) Remove the screws from the left and right lid edges, Fig. 1 (1).
- b) Lift the lid at the front and pull forwards.

5.2 Opening the front panel for service work (Fig. 1)

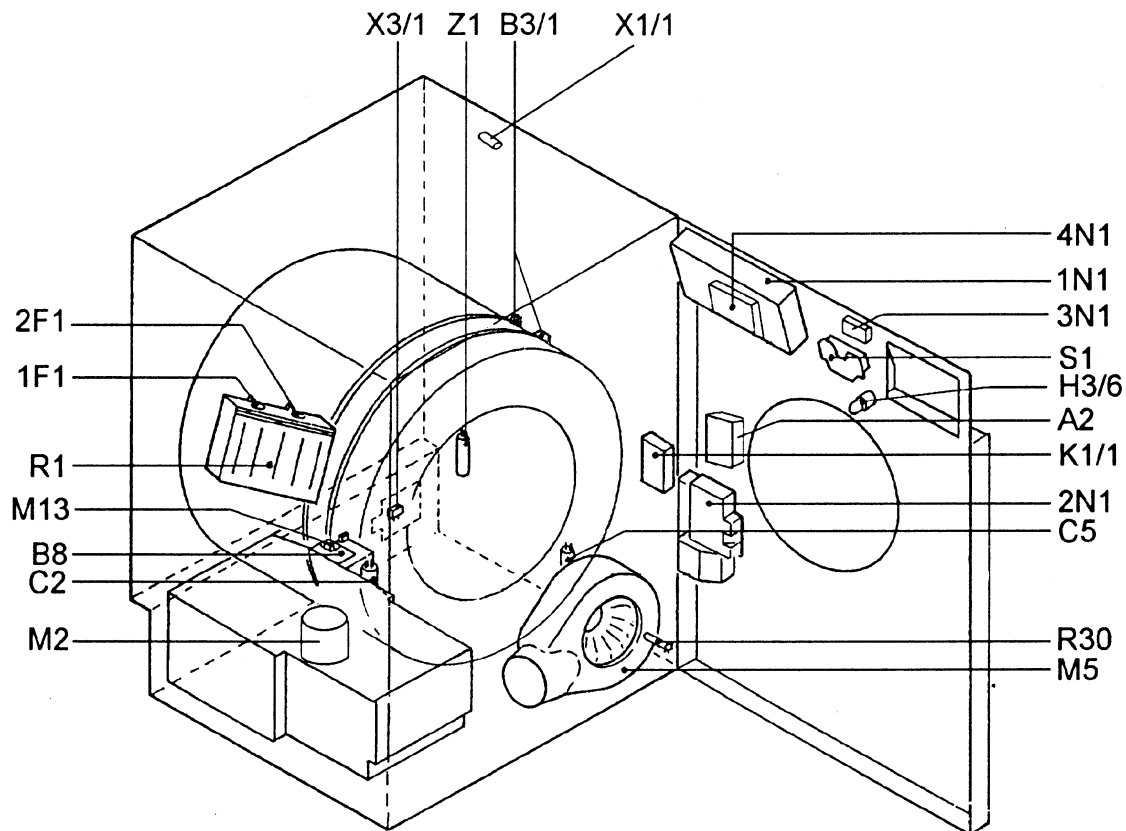


1

- a) Remove the 4 screws (2).
- b) Remove the left fascia piece with the lid opener.
- c) Remove the 2 screws (5).
- d) Then remove the 2 screws (4).
- e) **Loosen** the Torx-headed screw (6) and slide it down.
- f) Press the spring catch (3) down with the lid opener and open the front panel.
All components are easily accessible once the front panel has been opened.

5.3 Layout of electrical components

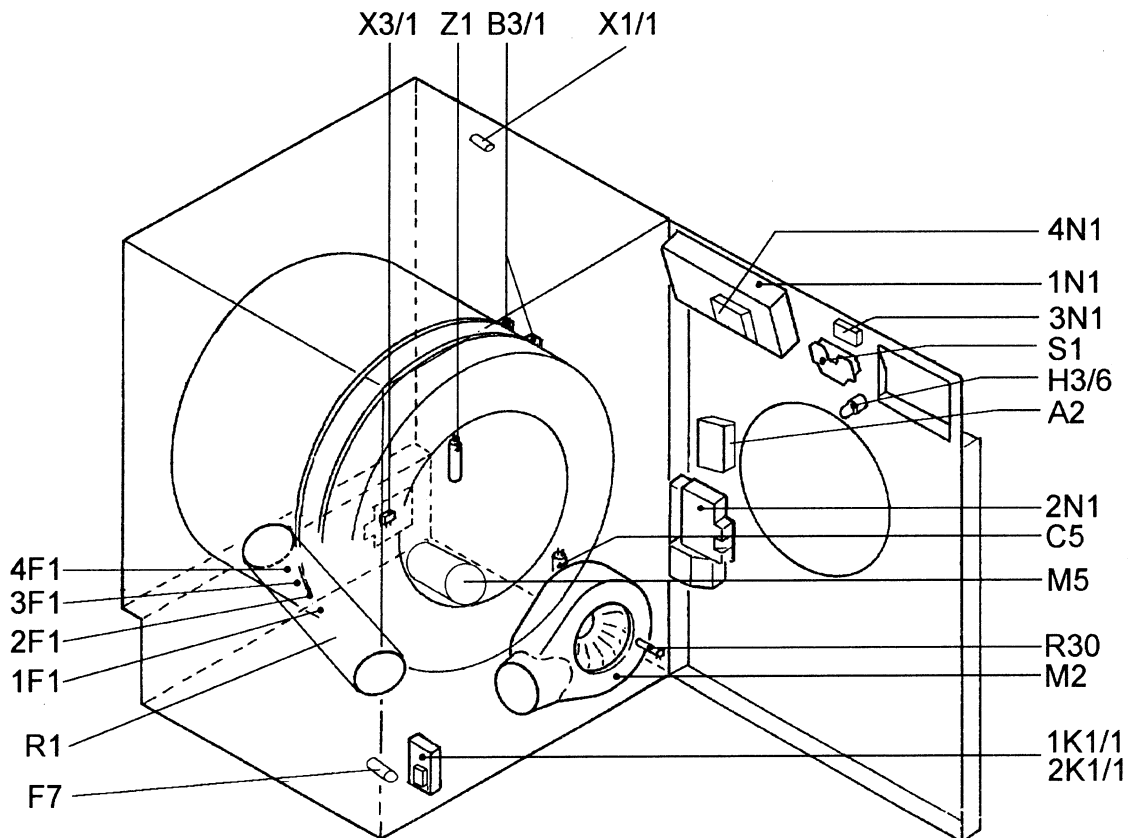
5.3.1 T 5205, T 5205 C (Fig. 2)



2

A2	Door lock	M5	Motor - Drum drive and circulation fan
B3/1	Slip rings - To transfer residual moisture signal	1N1	Control module
B8	Float switch	2N1	Power module
C2	Capacitor - Fan	3N1	Display module
C5	Capacitor - Drum drive	4N1	Additional relay module
1F1,2F1	Temperature limiter	R1	Heating
H3/6	Interior light	R30	Temperature sensor
K1/1	Relay - Heating	S1	Pushbutton switch unit
M2	Motor - Cooling fan	X1/1	Socket - Coin mechanism
M13	Motor - Condensate pump	X3/1	Mains connection strip
		Z1	Interference suppression filter

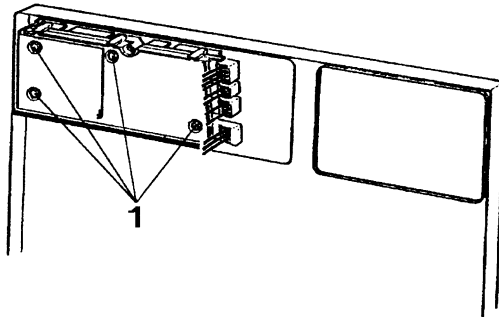
5.3.2 T 5206 (Fig. 3)



3

A2	Door lock	M5	Motor - Drum drive
B3/1	Slip rings - To transfer residual moisture signal	1N1	Control module
C5	Capacitor - Drum drive	2N1	Power module
F7	Control circuit fuse	3N1	Display module
1F1,2F1	Temperature limiter	4N1	Additional relay module
3F1,4F1	"	R1	Heating
H3/6	Interior light	R 30	Temperature sensor
1K1/1,2K1/1	Relay - Heating	S1	Pushbutton switch unit
M2	Motor - Fan	X1/1	Socket - Coin mechanism
		X3/1	Mains connection strip
		Z1	Interference suppression filter

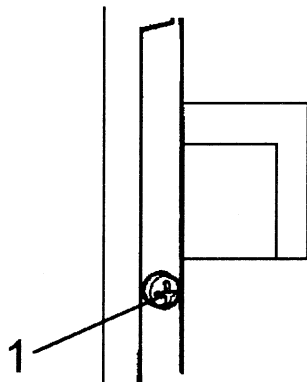
5.4 Control module removal (Fig. 4)



4

- a) Open the front panel.
- b) Remove the additional relay module.
- c) Remove the 4 screws (1).
- d) Disconnect the group plug and remove the control module.

5.5 Heating relay removal (Fig. 5)

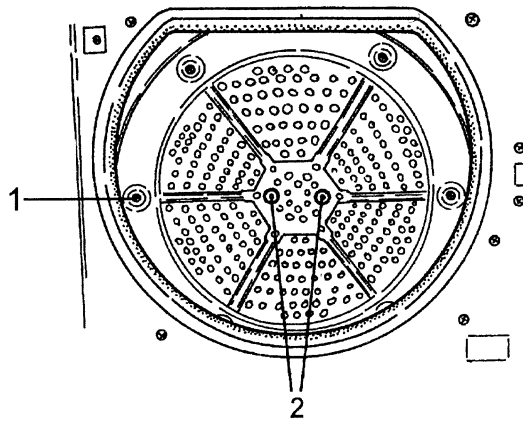


5

- a) Open the front panel (Point 5.2).
- b) Remove the fixing screw (1).
- c) Lift out the relay retaining bracket.

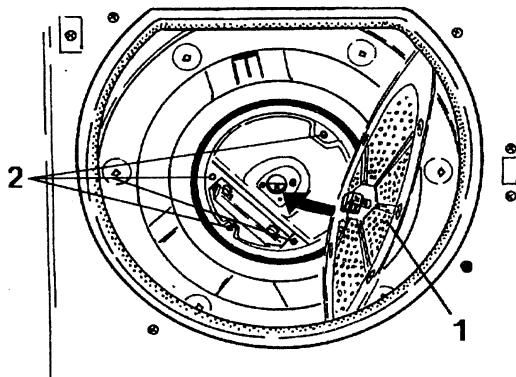
5.6 Heater bank removal

T 5205, T 5205 C



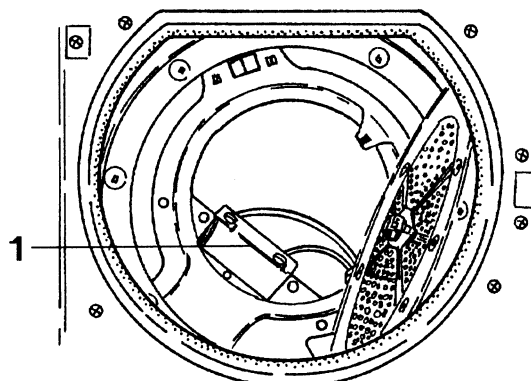
6

- a) Open the front panel (Point 5.2).
- b) Remove the 6 screws on the rear inside panel of the drum, Fig. 6 (1).
- c) Unscrew the two screws in the central bearing, Fig. 6 (2). Open the rear panel of the drum and lay it against the side, Fig. 7 (1).



7

- d) Remove the 4 screws, Fig. 7 (2), and take out the heater bank cover plate with drum seal.
- e) Disconnect the heater bank wiring. Remove the heater bank by pulling it upwards, Fig. 8 (1).



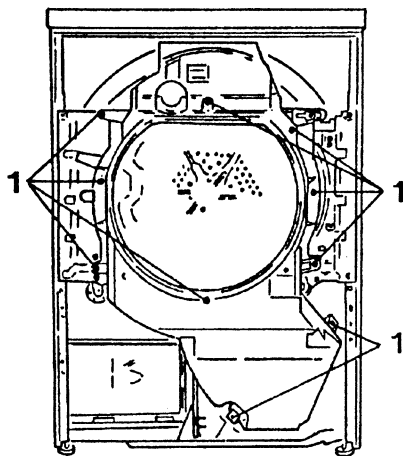
8

Note:

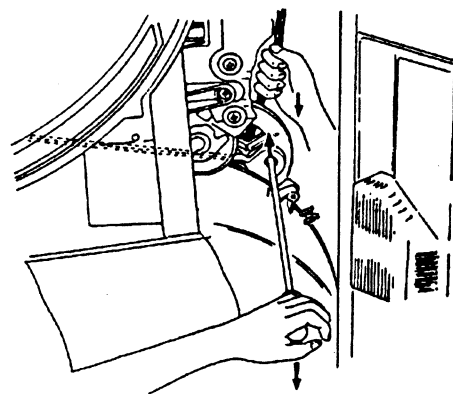
When refitting the drum rear panel, it is important to ensure that the bearing housing is correctly aligned **at the position indicated by the arrow in Fig. 7** and lightly screwed in place. Then align a hole in the drum rear panel with one of the captive nuts, insert a screw and tighten by hand. Turn the drum by hand and fit all the other screws in the same way, one by one, **then tighten them.**

5.7 Fan unit with drum motor removal

T 5205, T 5205 C

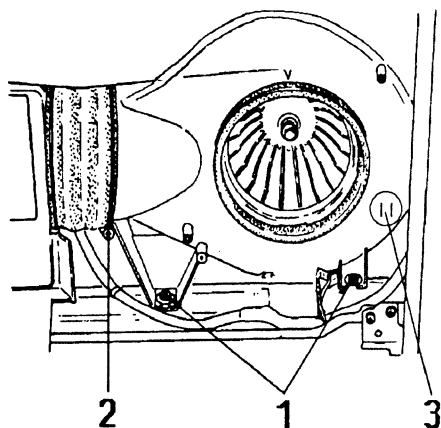


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10

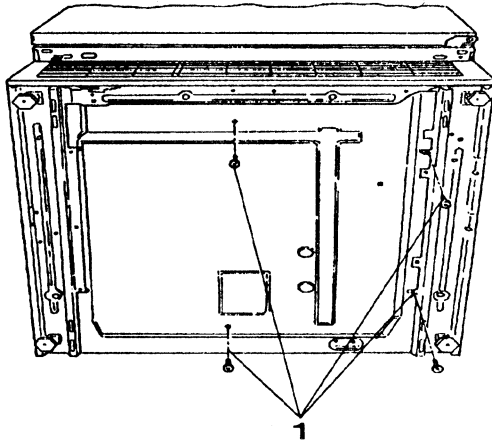
- Open the front panel (Point 5.2).
- Remove the screws from the fill ring and exhaust duct cover, Fig. 9 (1), and remove them.
- Use the long fixing lever, Part no. C 2627, or a long screwdriver, to slacken the drive belt, Fig. 10, and remove it from the drive pulley.



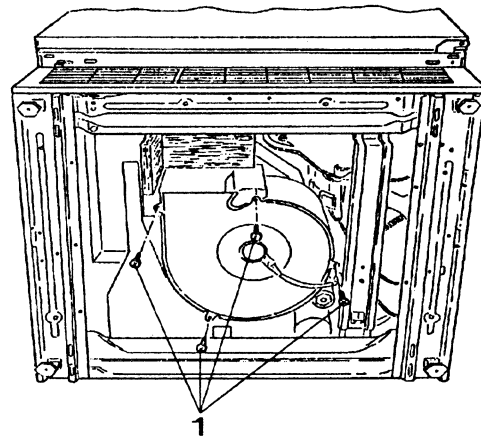
11

- Remove the 2 screws, Fig. 11 (1).
- Loosen the hose clip and disconnect the hose from the fan, Fig. 11 (2).
- Remove the NTC sensor, Fig. 11 (3), (it is fitted eccentrically).
- Pull the fan approx. 2 cm forwards, then tilt it to the front and left to lift it over the transverse strut. Remove the fan.

5.8 Cooling fan removal T 5205, T 5205 C



12

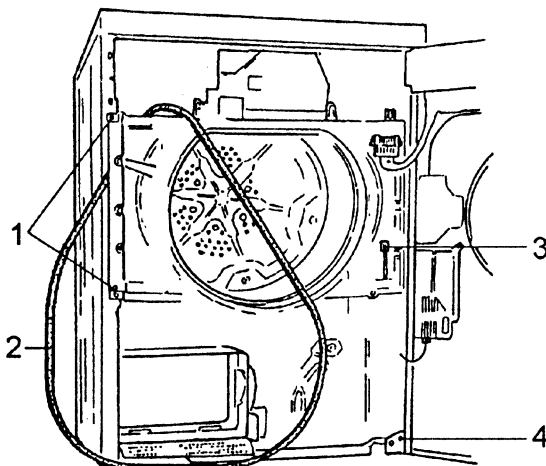


13

The cooling fan is an integrated part of the condenser box. It may be removed as follows:

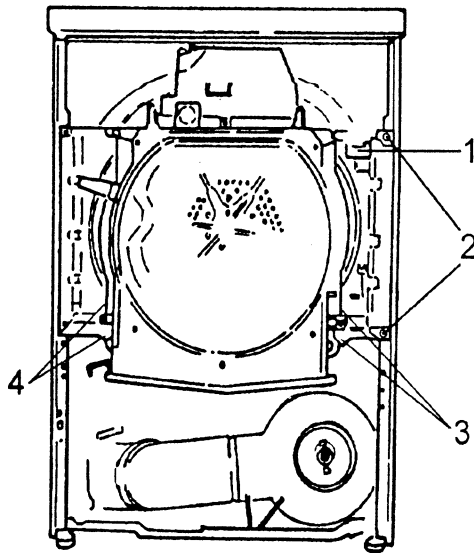
- a) Lay the machine on its back.
- b) Remove the 4 screws, Fig. 12 (1), and take off the base plate.
- c) Unscrew the 4 screws, Fig. 13 (1), and remove the fan unit.

5.9 Drum drive belt replacement



14

- a) Open the front panel (Point 5.2).
- b) Remove the fill ring and exhaust vent duct.
- c) Cut through the damaged drive belt and remove it.
- d) Remove the screws, Fig. 14 (1), and ease open the bearing ring panel.
- e) Slide the new belt through the gap between the bearing ring panel and the machine casing, Fig. 14 (2). Refit the bearing ring panel and screw it tightly into place.
- f) Disconnect the plug connections.

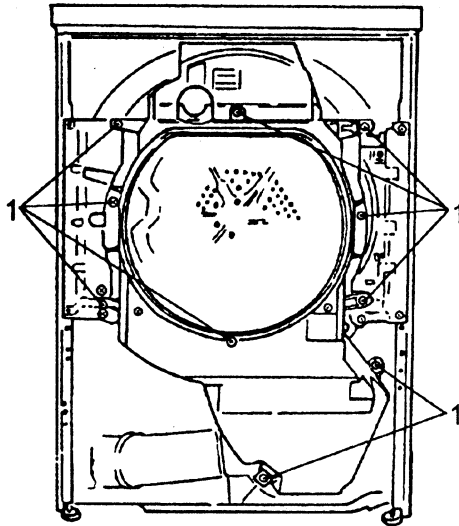


15

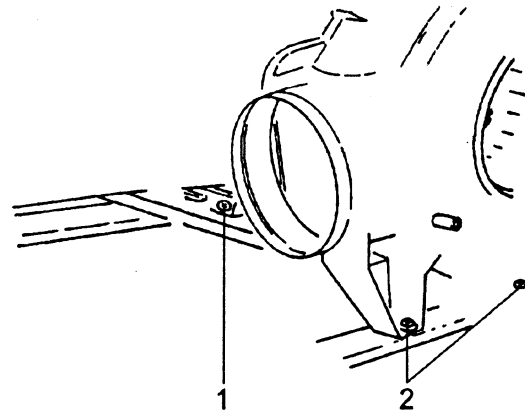
- g) Unscrew the slip ring brush holder, Fig. 15 (1).
- h) Disconnect the earth tag, Fig. 14 (3).
- i) Unscrew the lower hinge, Fig. 14 (4), and remove the front panel.
- j) Remove the screws, Fig. 15 (2), and ease open the bearing ring panel.
- k) Slide the new belt through the gap between the bearing ring panel and the machine casing. Refit the bearing ring panel and screw it tightly into place.
- l) Slide the belt into position on the drum and then onto the drive pulley by levering up the swivel arm Fig. 10.

5.10 Fan removal

T 5206



16



17

- Open the front panel (Point 5.2).
- Remove the screws from the fill ring and exhaust duct cover, Fig. 16 (1), and remove them.
- Remove the vent duct bend from the fan.
- Use the long fixing lever, Part no. C 2627, or a long screwdriver to slacken the drive belt, Fig. 10, and remove it from the drive pulley.
- Remove the two screws holding the fan, Fig. 17 (2), loosen the screw, Fig. 17 (1), and remove the motor and fan as a complete unit.

5.11 Drum seal

5.11.1 Rear drum seal replacement

Fit the new seal so that the felt faces towards the rear of the machine and the rubber groove for the clamp ring faces the front. The drum is sealed axially.

5.11.2 Front drum seal replacement

- Open the front panel (Point 5.2).
- Remove the fill ring and exhaust vent duct.
- Remove the bearing ring.

5.12 Bearing shell replacement behind drum rear panel

- a) Remove the drum rear panel.
- b) Lever off the upper section of the bearing shell with a screwdriver.
- c) Grease the new bearing shells (a 6 g grease sachet with "Unisilicone TK 572 6G" is supplied) and fit them onto the ball pin.

5.13 Condenser box removal

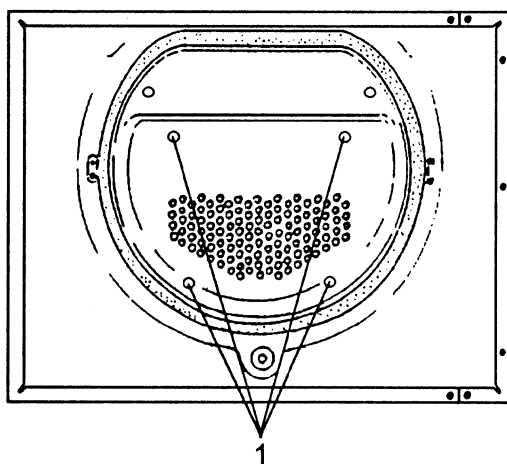
T 5205, T 5205 C

- a) Unscrew the plinth strip.
- b) Remove the screw below the condenser box and pull out the box to the front.

Note:

When refitting, ensure that the seal is first inserted, recess down, in the air duct before fitting the condenser box.

5.14 Door seal replacement (Fig. 18)



18

- a) Remove the filter unit by unscrewing the 4 screws (1).
- b) Replace the seal.

5.15 Coin mechanism connection

- Fit the coin mechanism plug into the connection socket X1/1 in the machine. Disconnect the appropriate connection socket bridge as follows:

- **C 5002/C 5004**

Remove the socket bridge 1W14 (from pin 1 to pin 2).

- **C 5003 / AEG**

Remove the socket bridge 2W14 (from pin 3 to pin 5).

- Cut through the red wire on the 7-core wiring harness for the display module (3N1) and insulate it. This makes the "**Delay start**" feature inoperative (EZ 331 only).

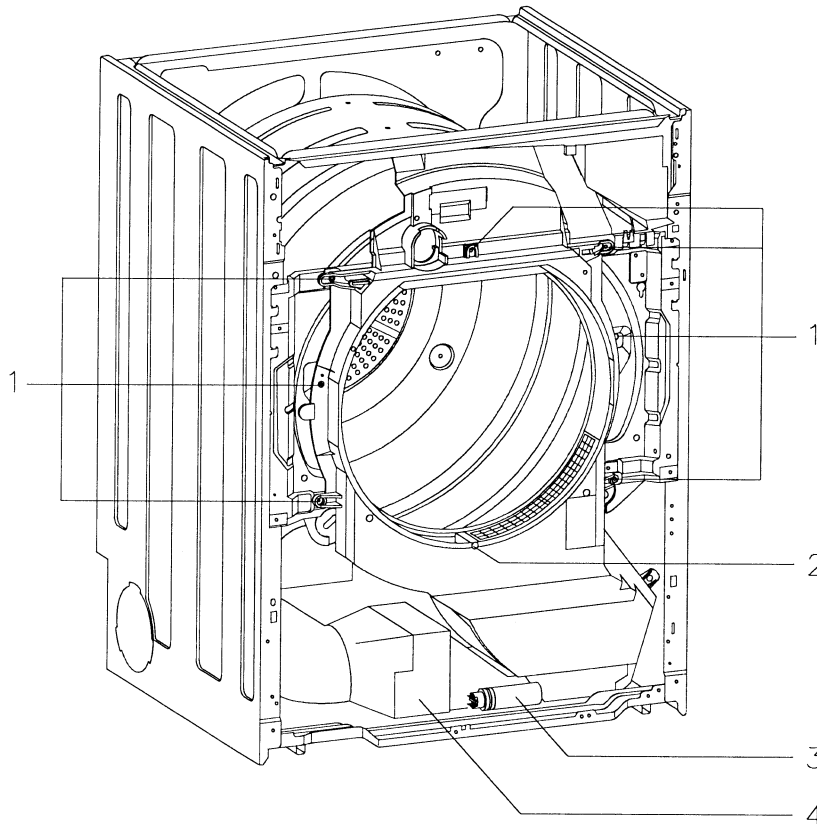
Important:

The white control lamp on the coin unit remains lit even when the door is open.

5.16 Air guide with fan

5.16.1 T 5206, T 5207

- Since 1998



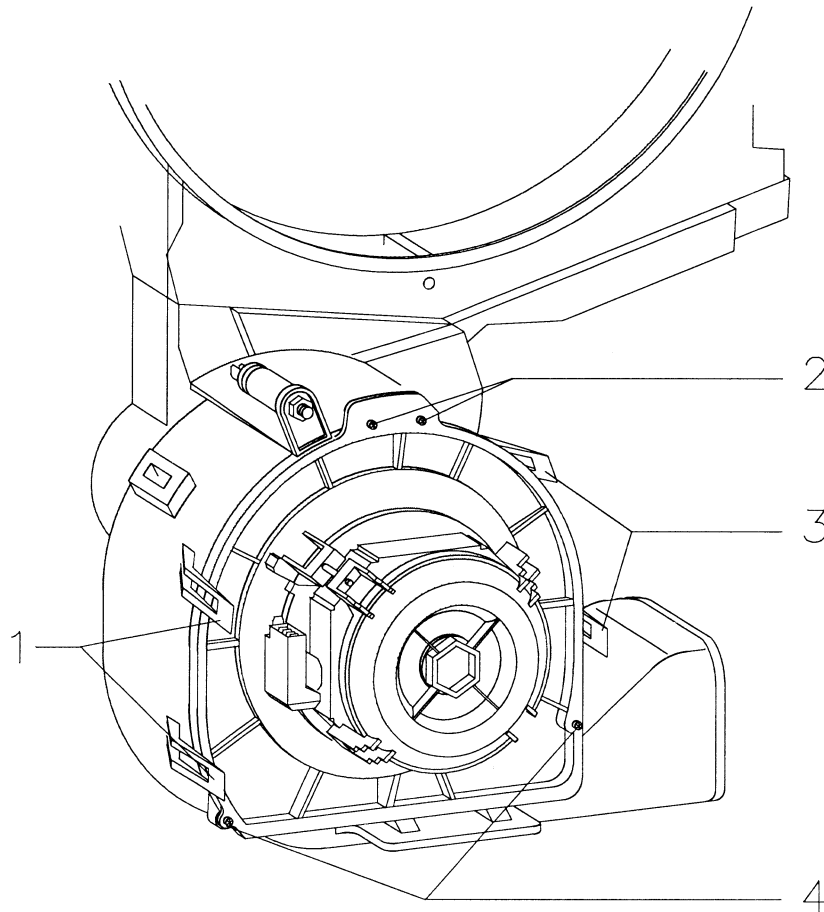
19

5.16.2 Air guide removal

- Open the front panel, Point 5.2.
- Remove 8 screws (1 and 2) from the air guide.
- Disconnect the capacitor plug (3).
- Disconnect the NTC sensor plug.
- Disconnect the air duct (4) from the air guide.
- Remove the air guide to the front and disconnect the fan group plug.

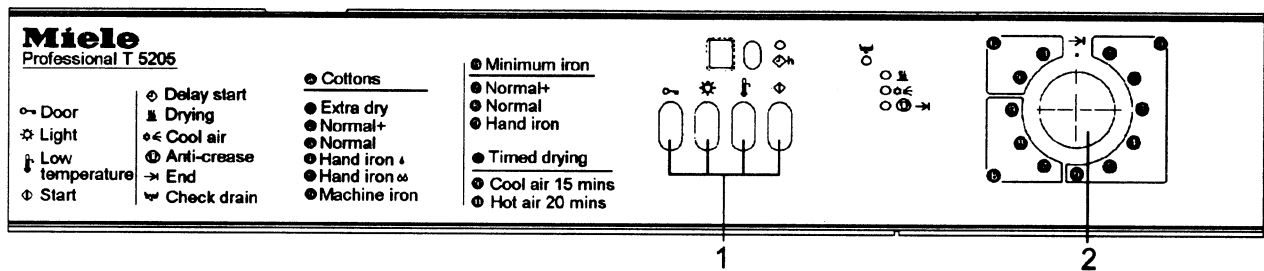
5.16.3 Fan removal

- Remove the air guide, Point 5.16.2.
Remove the screws (2 and 4).
- Press the retainers (1) out of the way and lift the motor partly on the left.
- Press the retainers (3) out of the way and lift the motor out of the air guide.



6. Fault Diagnosis

6.1 Service programme (Fig. 1)



1

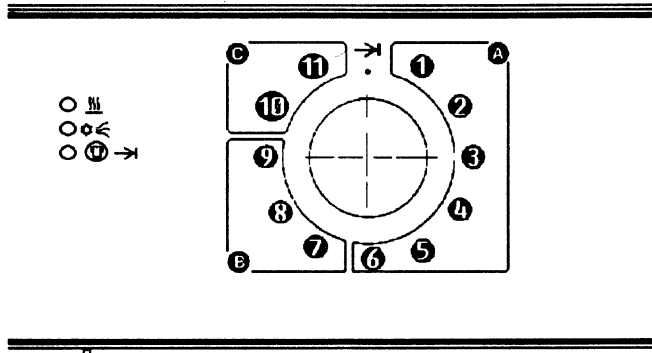
The service programme mode can be used to check and test individual components, LEDs and programme functions.

Accessing the service programme:

- a) Switch off all additional function pushbuttons (1).
- b) Turn the selector switch (2) to "End" →.
- c) Operate and release the "Low temperature" button three times (each for at least 0.3 seconds) within 30 seconds of switching on the mains supply.

Successful accessing of the service programme mode is indicated by flashing of the "Drying" LED.

6.2 Checking individual components



2






To start the drum motor both initially and each time after the door has been opened the **"Start"** button must be pressed.

By setting the selector switch to positions **1 to 6**, the following components are operated:

Position	Component operated/machine response
1	Heating
2	Drum rotates
3	Software If a coin mechanism is fitted, the white control lamp switches off.
4	Drum rotates in the opposite direction to that at Pos. 2.
5	Cooling fan
6	Condensate pump

In Positions 1 to 6 the service programme is limited to 30 minutes in each test step.

By setting the selector switch to positions **7 to 11**, the following additional functions can be checked:

Position	Function tested
7	Low resistance of the slip ring contact and sensor circuit
8	High resistance of the slip ring contact and sensor circuit
9	LED test
10	Digital display (automatic operation of each individual segment of the digital display)
11	Power module type "  " in display = Condenser dryer type (EL 352) "  " in display = Vented dryer type (EL 351)
End →	Door release LED "Delay start" lights up = Door switch in order Without "Delay start": Middle digital display segment "  " lights up = Door switch in order Overriding time control (Door closed) Top digital display segment "  " lights up = Long : 240 minutes (T 5205, T 5205 C), 130 minutes (T 5206). Bottom digital display segment "  " lights up = Short : 150 minutes (T 5205, T 5205 C), 90 minutes (T 5206).

6.3 Checking the residual moisture sensing circuit, Pos. 7 and 8

6.3.1 Slip ring contact test

This tests the complete moisture sensing circuit between the control module and the moisture sensors for low resistance.

Procedure:

- Connect the lifter bars and the drum body together using the test leads (with magnets), Tool no. A 1325, to simulate wet laundry and high conductivity.
- Select Position 7 in the service mode ("**Normal +**").
- Test duration is approx. 60 seconds.

If the drum does not rotate, press the "**Start**" pushbutton.

Fault diagnosis:

"**Cool air**" LED lights up =
Circuit in working order.

"**Cool air**" LED flashes =
Circuit defective. Resistance of connection between controls and sensors too high or open-circuited.

A multimeter is not suitable for testing the slip ring contact resistance as its measuring voltage is too low.

- a) Disconnect the wires to the drum and lifter bars at the group plug on the electronic unit.
- b) Connect the wires leading to the electronic unit together so as to short-circuit the moisture-sensing circuit.
- c) Repeat the test. If the same error message is still displayed (flashing LED) the electronic unit is defective and must be replaced.
- d) If the "**Cool air**" LED now lights up normally, the electronic unit is in working order. Check the moisture sensing circuit between the electronic unit and the lifter bars for an open circuit.
- e) Remove the test leads.

6.3.2 Residual moisture sensing test

This tests the complete moisture sensing circuit between the control module and the moisture sensors for high resistance.

Procedure:

- Select Position 8 in the service mode ("**Normal**").
- Test duration is approx 60 seconds.

If the drum does not rotate, press the "**Start**" pushbutton.

Fault diagnosis:

"**Cool air**" LED lights up =
Circuit in working order.

"**Cool air**" LED flashes =
Circuit defective. Resistance between controls and sensors not high enough (<50 MΩ).

A multimeter is not suitable for testing the slip ring contact resistance as its measuring voltage is too low.

- a) Disconnect the wires to the drum and lifter bars at the group plug on the electronic unit.
- b) Repeat the test. If the same error message is still displayed (flashing LED) the electronic unit is defective and must be replaced.
- c) If the "**Cool air**" LED now lights up normally, the electronic unit is in working order. Check the moisture sensing circuit between the electronic unit and the lifter bars.

To leave the service programme, disconnect the unit from the mains.

6.4 Fault indication

- A Fault
- B Possible cause
- C Fault rectified
- D Remedy

6.4.1 Drying time exceeded

- A The display indicates "0" and the "Anti-crease/End" LED lights up.
- B This is not a fault. Residual-moisture-controlled drying has an overriding time control and this has been exceeded.

Overriding time control	T 5205 / T 5205 C	T 5206
Normal	240 min	130 min
Reduced	150 min	90 min

Note:

The reduced overriding time control is only available on machines without "Delay start" and is activated by cutting through the bridge on the residual moisture display.

6.4.2 Starting irregularities with a coin mechanism *Fig. 3*

- A Further drying can be carried out without inserting more coins.
- B Overriding time control and coin mechanism are not reset when door is opened before the drying programme has been completed.
- C Software modification made to electronic unit EPW 382
Modification included as standard as follows:

T 5205, since Machine no. 14347744
T 5206, since Machine no. 14347052.

- D Fit new electronic unit, Part no. 4106861.

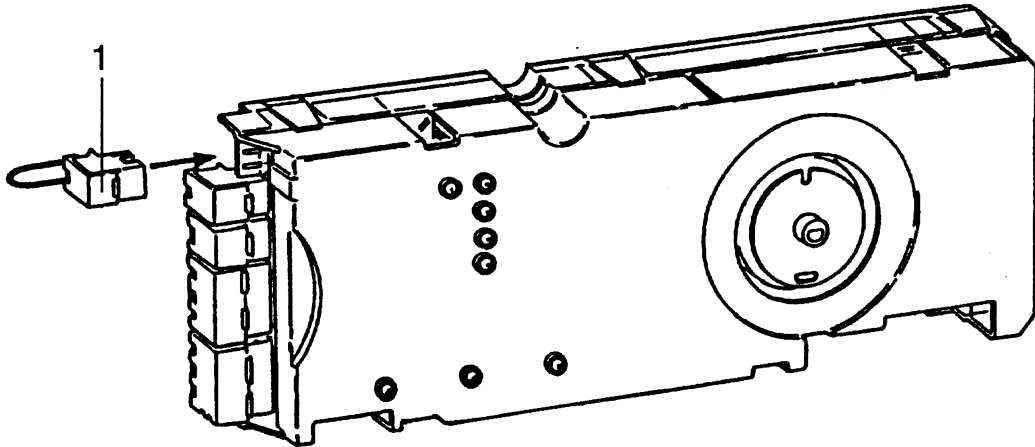
Note:

With modified electronic units, the overriding time control and coin mechanism are reset automatically when laundry is removed before the drying programme has been completed and the door remains open.

- The bridging plug (1) can be used to change the reset time:

Bridge fitted: Reset time 1 min
Bridge **not** fitted: Reset time 3 min.

The bridge, Part no. 3342250, is not supplied with the electronic unit and must be ordered separately if required.



3

6.4.3 "Anti-crease/End" LED flashes

A The drying programme is cancelled and the cooling-down and anti-crease action stages are completed. The "**Anti-crease/End**" LED flashes.

B NTC short- or open-circuit registered by electronic unit.
30 V d.c. required for residual moisture sensing not present.

D The NTC resistance must be within the following range:

790 Ω - 56 k Ω

Check the NTC sensor and its leads for short- or open-circuit.

6.4.4 "1" is displayed

A "1" is displayed when the machine is switched on.

B Electronic unit EPW 381, Part no. 4106850, for a dryer with "**Delay start**" is fitted in a machine version without the "**Delay start**" feature.

D Fit electronic unit EPW 382, Part no. 4106861, for a machine version without the "**Delay start**" feature.