Miele T 8633 C – intermittent F4 "Technical fault"

Drying-air NTC sensor (1R30) suspected · disassembly guide · wiring diagrams · status: monitoring

Appliance

Model	T 8633 C condenser dryer (SoftCare System)
Type	HT17-2
M-Nr.	06757450
Supply	220–230 V ~ 50 Hz, 2.65–2.85 kW, 16 A



Display showing F4: "Technische storing – Neem contact op met Miele" (Technical fault – contact Miele)



Rating plate

Symptom

Every now and then the dryer stopped and showed **F4 – Technical fault, contact Miele**. The fault came back at random moments and cleared after switching the machine off and on again.

What F4 means

According to Miele, F4 on a dryer means an **open circuit at the drying-air temperature sensor (NTC)**. A sensor with a bad contact or an internal break gives exactly this kind of intermittent fault: the board sees an open circuit, stops the program and reports F4, and a power cycle clears it until it happens again.

Confirming the sensor

To make sure F4 really comes from this sensor, I unplugged its connector and switched the dryer on. It failed immediately with F4. That confirms F4 is triggered by the 1R30 drying-air sensor circuit.

With the dryer switched on, I also wiggled the sensor wires and the connector, and that did not bring up F4. So the loom and the plug connection are less likely to be the cause. The break is more likely inside the sensor housing itself, for example a cracked solder joint or a thermistor lead that only opens up under certain conditions (such as heat).

Suspected part

- EPCOS NTC temperature sensor, T-Nr. **3523183** (also the Miele part number)
- Component **1R30** in the Miele diagrams; the legend calls it "Temperature sensor"
- On the wiring diagram it is drawn at the bottom right, next to the door lock (A2), matching its real position at the front of the machine



The removed sensor

Tools

A long Torx screwdriver. All the screws are the same size, so you can find the right bit by testing it on a screw at the back first.

Procedure

WARNING: unplug the dryer from the mains before you start.

1. **Bottom bar (plinth):** remove the two screws at the left and right ends of the vented strip and take the strip off. A good moment to clean the lint out of the grille.
2. **Behind the bar** there are four screws. Remove only the **two outer ones**. The two in the middle just hold a small metal plate.
3. **Open the door** and remove the **five screws around the drum opening**: top left, top right, lower right (above the rating plate), bottom centre and lower left (near the bottom hinge). Leave the **hinge** screws and the **door lock** screws in place.


Front with bottom bar (plinth): screws at the far left and right of the grille



Door open: the five panel screws around the drum opening

4. **Remove the front panel:** the panel now hangs only from the top. Push it up slightly and tilt the bottom forward. **Careful:** the door lock (A2) is still attached by an electrical cable and a mechanical release cable. With the dryer on the floor, rotate the panel 90° anticlockwise and rest it on its left side with the door open; that gives just enough room to leave the lock connector plugged in (you can also disconnect it). There is no easy way to detach the mechanical cable, so the panel has to rest on its left side either way.
5. **Remove the filters:** the sensor sits at the front in the middle, right between the two removable filters. Take both filters out.
6. **Remove the sensor:** reach in from behind the filter opening and push the sensor with your fingers so it tilts a little in its rubber grommet. The connector then pulls off easily. Push further to get the sensor out. It sits in the rubber at a **45° angle, running from left to right**.
7. **Reassemble** in reverse order. Seat the sensor firmly in the grommet at the same 45° angle and push the connector on firmly.

Status so far

I removed the sensor, cleaned it and its connector, and refitted it. Since wiggling the wiring did not trigger the fault, I suspect the sensor itself, and I am waiting to see whether F4 comes back.

- If F4 comes back, I will replace the sensor with part 3523183.
- If it stays away, a poor contact at the connector was probably the cause after all.

Tip: note how far into the program F4 appears. If it only happens once the machine is hot, that points to a thermistor whose internal joint opens when it heats up. You can test the removed sensor with a multimeter while warming it with a hair dryer.

Wiring diagrams

The following pages contain the service sheets found inside the dryer (cleaned scans): the circuit diagram (Schaltplan, sheet 06177451), the wiring diagram (Verdrahtungsplan, sheet 06177471, A3) and the component legend in DE/EN/FR/ES (Mat-Nr. 04933441). The sensor is component **1R30**. These sheets are © Miele.

RD 33368

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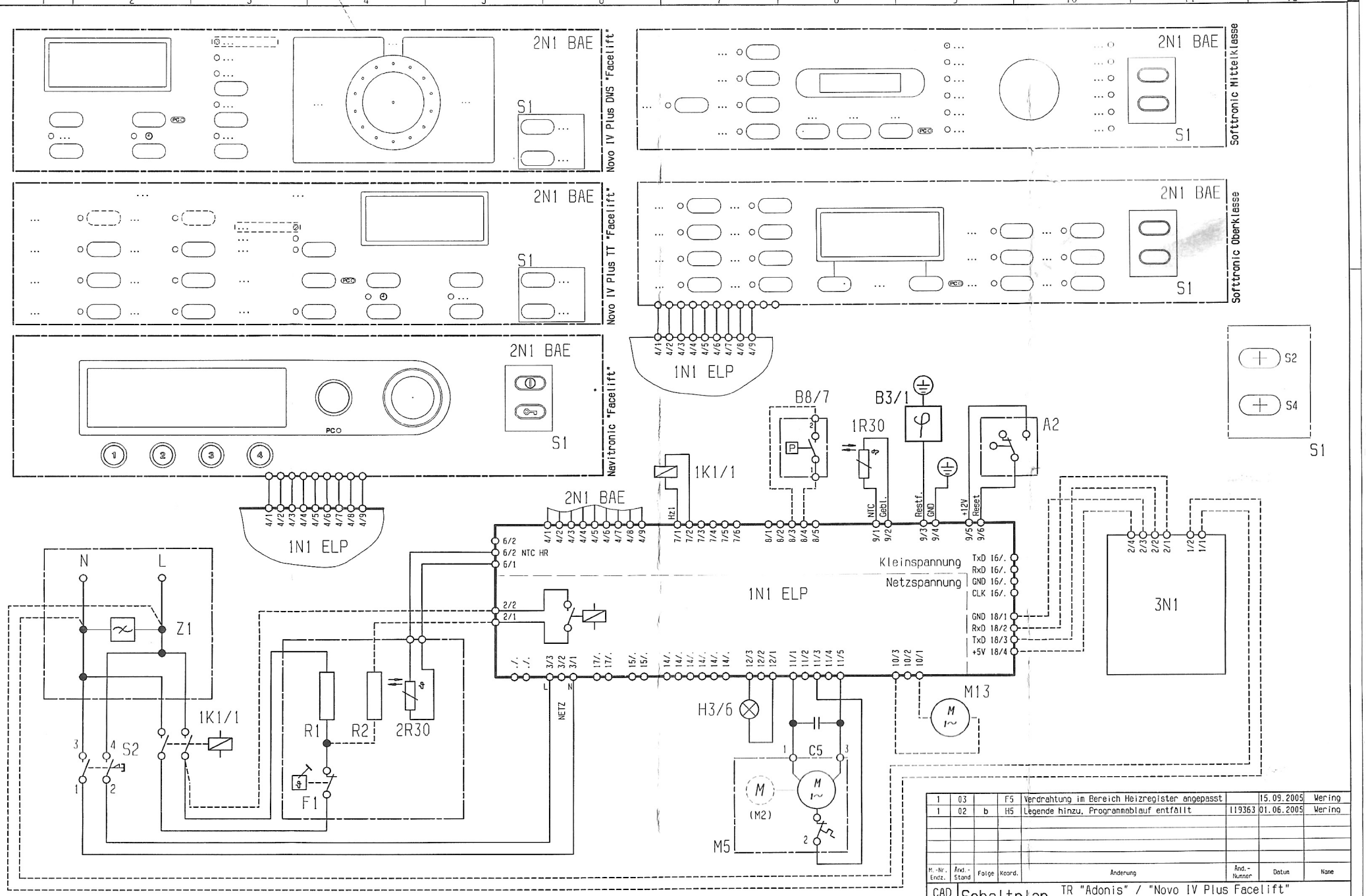

Änd.-Nr. Endz.	Änd.-Stand	Folge	Koord.	Änderung	Änd.-Nummer	Datum	Name
1	03		FS	Verdrahtung im Bereich Heizregister angepasst		15.09.2005	Wering
1	02	b	HS	Legende hinzu, Programmablauf entfällt	119363	01.06.2005	Wering

CAD Schaltplan — TR "Adonis" / "Novo IV Plus Facelift"

Zeichn.-Nr.	Ä.-St.	Benennung
06177461	.	Schaltplan
06177471	.	Verdrahtungsplan
04933441	.	Legende TR ab Novo 3

1N1	ELP 310, 314, 315, 330, 331
2N1	EW 350, 354, 360, 364, 410, 414
.	.
3N1	PLC Modul

	Datum	Name
Bearb.	26.10.2002	Rixe
Gepr.	15.09.2005	Kramme
Norm.		

Miele
Werk Gütersloh
Konstruktion

Blatt 1 von 1 Bl.	Kennzeichen Z-5203 0985	Format DIN A2
Änd.-Nr. 116423	Mat.-Nr. 06177451	Änd.-St. 003

06177461 . 003

1K1/1

2N1
BAE

S1

Z1

3N1
PLC

1N1
EPL

Netz

B8/7

H3/6

Bestückungsseite zur Gerätem tte

A2

2R30

F1

R1

R2

-R1

M13

M5

C5

B3/1

1R30

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DAD	06177471	003	Verdrahtungsplan TR "Adonis" / "Novo IV Plus Facelift"
	Blatt 1 von 1		
	Kat.-Nr.	Änd.-St.	Benennung

RD 33368

	de	en	fr	es
(T-)ABLUFT	Abluft (-Trockner)	Vented (dryer)	Modèle à évacuation d'air	Salida de aire (secadora)
A2	Türverriegelung	Door lock	Verrouillage porte	Cierre de puerta
B2	Temperaturregler	Thermostat	Thermostat	Regulador de temperatura
B3/1	Restfeuchtesensor	Residual moisture sensor	Sonde humidité résiduelle	Palpador de humedad residual
B8	Schwimmerschalter	Float switch	Interrupteur à flotteur	Interruptor de flotador
B8/7	Schwimmerschalter - Kondensat	Float switch - condensate	Interrupteur à flotteur - condensée	Interruptor de flotador - condensados
C2	Kondensator - Gebläse	Capacitor - Fan	Condensateur - ventilateur	Condensador ventilador
C5	Kondensator - Trommelantrieb	Capacitor - Drum drive	Condensateur - entraînement du tambour	Condensador accionamiento tambor
E1/1	Elektrode - Zündung	Ignition electrode	Electrode - allumage	Electrodo encendido
EIN - AUS	Ein - Aus	On / Off	Marche - Arrêt	Conexión / desconexión
F1	Temperaturwächter	Temperature monitor	Thermostat	Termostato
F2	Temperaturbegrenzer	Temperature limiter	Limiteur de température	Limitador de temperatura
F7	Feinsicherung	Fine-wire fuse	Fusible	Fusible
GBL	Gebläse	Fan	Ventilateur	Ventilador
GND	Grundkontakt	Ground (GND) contact	Masse	Contacto masa
H	Heizung	Heating	Chauffage	Calefacción
H3/6	Leuchte - Trommel	Lamp - Drum	Eclairage tambor	Lámpara tambor
K1	Relais	Relay	Relais	Relé
K1/1	Relais - Heizung	Relay - Heating	Relais - chauffage	Relé , calefacción
K1/39	Relais - Tür	Relay - Door	Relais - porte	Relé , puerta
K1/52	Relais - Kupplung	Relay - Connector	Relais - coupleur	Relé , acoplamiento
(T-)KOND	Kondens (-Trockner)	Condenser (dryer)	Modèle à condensation	Condensación (secadora)
M2	Motor - Gebläse	Fan	Moteur - ventilateur	Motor , ventilador
M5, M-ANTR	Motor - Trommelantrieb	Motor - Drum drive	Moteur - entraînement du tambour	Motor , accionamiento tambor
M13, M-KP	Motor - Kondensatpumpe	Condensate pump	Moteur - pompe eau condensée	Motor , bomba de condensados
N1	Elektronik	Electronic unit	Electronique	Electrónica
NETZ-KT	Netzkontakt	Mains contact	Contact réseau	Contacto de red
R, R1, R2, R3, R4	Heizung (Heizkörper)	Heater elements	Chauffage (résistances)	Calefacción (resistencia)
R30	Temperaturfühler	Temperature sensor	Sonde de tempèrature	Palpador de temperatura
REST-F	Restfeuchte in %	Residual moisture in %	Humidité résiduelle en %	Humedad residual en %
REVERS	Reversieren	Reversing	Inversion du sens de rotation	Inversión de movimiento
S1	Wahlschalter (Drucktastenschalter)	Selector switch	Sélecteur (touches)	Selector (tecla)
S2	Ein - Aus	On / Off	Marche - Arrêt	Conexión / desconexión
S4	Tür	Door	Porte	Puerta
T1	Transformator	Transformer	Transformateur	Transformador
X3/1	Klemmleiste - Zuleitung	Mains terminal strip	Barrette de connexion - alimentation	Regleta de acometida
X5	Kupplung	Connector	Coupleur	Acoplamiento
X7	Leitungsverteiler	Distribution PCB	Répartiteur	Distribuidor de cables
X8	Netzanschluß (Anschlußkasten)	Mains connection box	Boîtier de raccordement réseau	Caja de conexión a red
Y57	Gasmagnetventil	Gas solenoid valve	Electrovanne gaz	Válvula magnética de gas
Z1,Z2,Z3,Z4,Z5	Funkentstörung	Interference suppressor	Antiparasites	Antiparasitario

Mat.-Nr. 04933441 Druckversion Legende HH-TR ab Novo III