



Service Manual

Freestanding Cooling Combi

ARC 6700/IX

Model	ARC 6700/IX	
Version	8501 670 10040	Page
	Technical data	2
	Spare part list	3
	Exploded view	4
	Circuit and Wiring diagram	5
	Text/Legend	6 - 7

Technical data

Factory Code CB 354 W

Dimensions

Height	189.0	cm
Width	60.0	cm
Depth	70.0	cm

Capacity

Total		
gross	359	l
net	332	l
Cooling		
gross	236	l
net	234	l
Freezing		
gross	123	l
net	98	l

Electrical connection

Voltage	220 - 240	V
Frequency	50	Hz

Power consumption

in 24 hours	0.78	kWh
-------------	------	-----

Freezing capacity

in 24 hours	13	kg
-------------	----	----

Compressor

Type	HTK 95 AA	
Capacity (CECOMAF)	125	W

Refrigerant

Type	R 600 a	
Quantity	35	g

Thermostat

Electronic

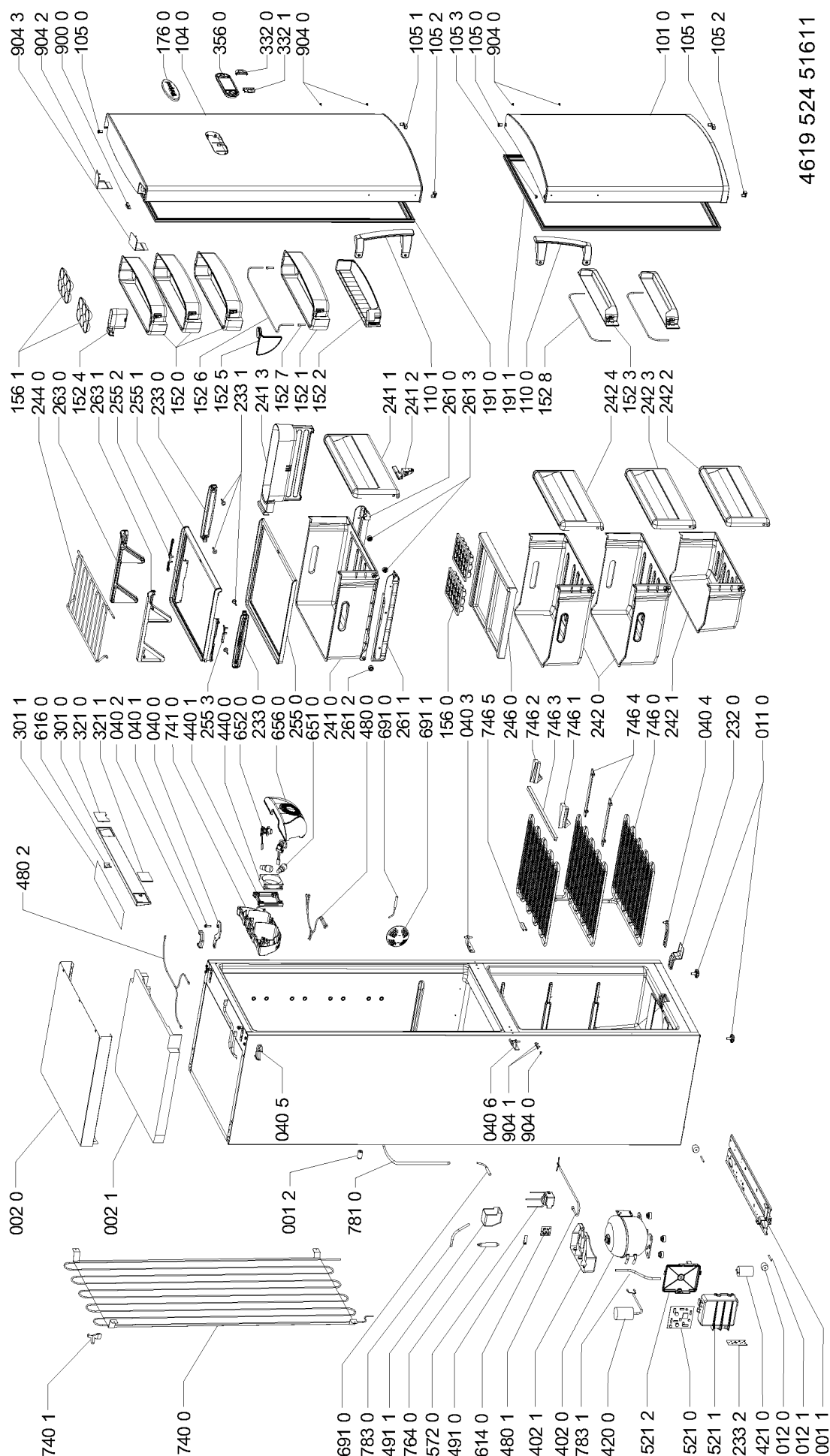
Spare part list

Model ARC 6700/IX
Service No. 850167010040
Version 850167010040

Pos. No.	12NC Code	Description
001 1	4812 464 18147	Crosspiece f. compressor
001 2	4812 525 18014	Guide
002 0	4812 464 18149	Cover, IX
002 1	4812 157 48001	Spacer
011 0	4812 462 18263	Adjust. foot
012 0	4812 528 78062	Roller
012 1	4812 535 78074	Shaft
040 0	4812 417 19294	Hinge, upper, IX
040 1	4812 226 08025	Pin, hinge
040 2	4812 417 78137	Cover, hinge, right AL
040 3	4812 417 19295	Hinge, middle, right IX
040 4	4812 417 19115	Hinge, lower
040 5	4812 417 78138	Cover, hinge, left AL
040 6	4812 417 19296	Hinge, middle, left IX
101 0	4812 416 19578	Door, freezer, IX
104 0	4812 416 19579	Door, refriger. f. LCD, IX
105 0	4812 532 88056	Bushing, AL
105 1	4812 532 88057	Sleeve, AL
105 2	4812 532 88058	Sleeve, left AL
105 3	4812 226 08026	Plug, IX
110 0	4812 498 18353	Handle, door, inox
110 1	4812 498 18352	Handle, door, inox
152 0	4812 418 28749	Door, dairy, upper w. serigr.
152 1	4812 418 28751	Bottle shelf, with serigr.
152 2	4812 418 28753	Door, dairy, lower w. serigr.
152 3	4812 418 88754	Door, dairy, freezer w. serigr.
152 4	4812 418 28752	Bottle holder
152 5	4812 418 28748	Separator for bottles
152 6	4812 526 48195	Rod, shelf, refrigerator
152 7	4812 404 78552	Bushing door dairy
152 8	4812 526 48196	Rod, shelf, freezer
156 0	4812 418 28471	Icecube, tray
156 1	4812 418 28754	Rack, egg
176 0	4812 459 18218	Nameplate
191 0	4812 466 68822	Magnetic seal, grey
191 1	4812 466 68823	Magnetic seal, grey
232 0	4812 171 58002	Overflow cond.
233 0	4812 462 38223	Rail f. shelf
233 1	4812 462 38224	Pin f. rail shelf
233 2	4812 404 18461	Support f. control board box
241 0	4812 418 79989	Crisper
241 1	4812 418 48742	Cover, crisper with serigr.
241 2	4812 418 89044	Air grid f. crisper cover
241 3	4812 418 28747	Separator for crisper
242 0	4812 418 68301	Drawer
242 1	4812 418 68299	Drawer
242 2	4812 418 48733	Cover, basket, with serigr.
242 3	4812 418 48741	Cover, basket, with serigr.1/2
242 4	4812 418 48689	Cover, basket
244 0	4812 458 19258	Shelf, bottle rack
246 0	4812 418 48743	Tray f. icecubes w. serigr.
255 0	4812 450 88271	Glass shelf, bottom w. serigr.
255 1	4812 450 88272	Glass shelf with serigr.
255 2	4812 404 48932	Catch, right f. glass shelf
255 3	4812 404 48933	Catch, left f. glass shelf

Pos. No.	12NC Code	Description
261 0	4812 468 18336	Rail, right f. crisper
261 1	4812 468 18335	Rail, left f. crisper
261 2	4812 528 78073	Roller, rear f. crisper
261 3	4812 528 78074	Roller, front f. crisper
263 0	4812 468 18338	Rail, right f. bottle rack
263 1	4812 468 18337	Rail left f. bottle rack
301 0	4812 464 69088	Control panel, IX
301 1	4812 440 98137	Cover, regulator
321 0	4812 462 28659	Cover, f. contr. panel IX
321 1	4812 462 28661	Cover, f.contr. panel IX
332 0	4812 410 29225	Button press, right
332 1	4812 410 29226	Button press, left
356 0	4812 214 79278	User board, LCD
402 0	4812 360 58114	Compressor EMT 56 CLP (service)
402 1	4812 418 48676	Tray, leak
420 0	4812 120 28033	Capacitor, 4µ F
421 0	4812 121 18158	Interf. filter
440 0	4812 361 18456	Fan
440 1	4812 466 68819	Shock absorber, for fan
480 0	4812 321 78213	Cable harness, for light
480 1	4812 321 78212	Cable harness, contr.board-compressor
480 2	4812 321 78211	Cable harness
491 0	4812 462 28261	Cover
491 1	4812 290 88084	Connect. block
521 0	4812 214 79294	Control board
521 1	4812 224 38013	Box f. control board
521 2	4812 224 38014	Cover f. control board box
572 0	4812 821 28038	Valve, magnet
614 0	4812 280 38051	Monoblock
616 0	4812 281 18064	Contact, reed, light switch
651 0	4819 134 88178	Lamp T25-240V 15W
652 0	4812 255 28022	Holder, lamp
656 0	4812 460 98087	Cover f. lamp with serigr.
691 0	4812 310 18846	Sensor kit
691 1	4812 462 28649	Cover sensor, refrigerator
740 0	4812 511 48382	Condenser
740 1	4812 462 28448	Holder
741 0	4812 224 38012	Housing, fan & light
746 0	4812 511 38275	Evaporator, freezer
746 1	4812 466 28139	Holder, evap., left
746 2	4812 462 28447	Holder, evap., right
746 3	4812 460 98081	Panel
746 4	4812 460 98055	Panel
746 5	4812 404 78705	Cover sensor, freezer
764 0	4819 526 48527	Dryer
781 0	4812 171 58001	Hose
783 0	4819 526 43046	Tube service
783 1	4812 530 29333	Pipe
900 0	4812 404 38738	Magnet, holder AL
904 0	4812 226 08011	Plug, AL
904 1	4812 226 08012	Stopper, AL
904 2	4812 462 28662	Plug, right IX
904 3	4812 462 28663	Plug, left IX

4619 524 51611



Wiring diagram for a refrigerator control system. The diagram shows a main power supply (A) connected to a plug (A) and a main connecting block (B). The main connecting block (B) has terminals for LINE, NEUTRAL, N.C., and COMPRESSOR. The COMPRESSOR terminal is connected to a compressor (D) and a starting relay (F). The NEUTRAL terminal is connected to a fan-motor (N) and a lamp (Q). The N.C. terminal is connected to a reed sensor (P). The LINE terminal is connected to a reed return (9) and a light (8). The diagram also shows a display module (T2) connected to a connector (CONN4 T1). The connector (CONN4 T1) has terminals for GDN, SIGNAL, and -5V dc. The connector (CONN2) has terminals for REED RETURN, LIGHT, REED, FAN RETURN, NEUTRAL, ELECTROVALVE, and FAN. The connector (CONN3) has terminals for REFRIG SENSOR, FREEZER SENSOR, EVAP SENSOR, REFRIG SENSOR RETURN, FREEZER SENSOR RETURN, and EVAP SENSOR RETURN. The diagram also shows a reed sensor (P) connected to a connector (CONN2). The diagram includes a legend for components and wire colors.

D REFRIG. COMPRESSOR	T1 ELECTRONIC MODULE	00 BLACK
F STARTING RELAY	T2 DISPLAY MODULE	11 BROWN
F1 P.T.C.	U1 REFRIGERATOR SENSOR	22 RED
G OVERLOAD PROTECTOR	U2 FREEZER SENSOR	33 ORANGE
IF INTERFERENCE FILTER	U3 EVAPORATOR SENSOR	66 BLUE
J1 RUNNING CAPACITOR	W ELECTROVALVE	77 VIOLET
N FAN-MOTOR	A PLUG	88 GREY
Q LAMP	B MAIN CONNECTING BLOCK	99 WHITE
P REED SENSOR	X COMPRESSOR HEATING	45 YELLOW-GREEN

4619 523 43281 A

4619 523 43281 A

Text/Legend

User interface service test routine .

LCD testing routine is a special mode except a normal work of the product.

User interface test is used to check the functionality of buttons, backlight, buzzer (acoustic signal) and icons in 3 rows.

ATTENTION: The testing routine is available only until 8 minutes starting from plugging in the product to power supply!

To engage this service test routine shall follow the steps below:

1 Step: Power Off the product - unplug the appliance and wait for 7 minutes,

2 Step: Power Up the product – plug in the appliance again,

3 Step: Within 8 minutes open and close fridge door,

4 Step: Press and hold four buttons together until all the icons show and buzzer sounds:

- Button 'OK',
- Button '+',
- Button '-',
- Button 'Menu'

5 Step: Release all buttons after 3 seconds.

IMPORTANT: the first pressed button must not be button Menu !

From now the testing routine is engaged and lasts for 1 minute.

Testing method:

With 5 buttons (without "OK") it is possible to test the LCD icons, buzzer and the backlight in the following way:

- Pushing the **STAND-BY** button of upper compartment all the icons of the upper row of the glass are switched ON and OFF alternately,
- Pushing the **MENU** button all the icons of the middle row of the glass are switched ON and OFF alternately,
- Pushing the **STAND-BY** button of lower compartment all the icons of the lower row of the glass are switched ON and OFF alternately,
- Pushing the "+" (plus) button the Buzzer is switched ON and OFF alternately,
- Pushing the "-" (minus) button the Backlight is switched ON and OFF alternately,

IMPORTANT: Plug – out the appliance to stop the test.

4812 900 08007

Text/Legend

NTC resistance vs. temperature table

T [°C]	R [Ω]	T [°C]	R [Ω]	T [°C]	R [Ω]	T [°C]	R [Ω]
-40.0	90721	-26.0	37221	-12.0	16564	2.0	7911
-39.5	87739	-25.5	36111	-11.5	16114	2.5	7714
-39.0	84867	-25.0	35039	-11.0	15678	3.0	7523
-38.5	82098	-24.5	34002	-10.5	15255	3.5	7337
-38.0	79431	-24.0	32999	-10.0	14845	4.0	7156
-37.5	76859	-23.5	32029	-9.5	14446	4.5	6980
-37.0	74381	-23.0	31092	-9.0	14059	5.0	6809
-36.5	71990	-22.5	30185	-8.5	13684	5.5	6643
-36.0	69686	-22.0	29307	-8.0	13320	6.0	6481
-35.5	67463	-21.5	28458	-7.5	12967	6.5	6324
-35.0	65320	-21.0	27637	-7.0	12624	7.0	6171
-34.5	63252	-20.5	26842	-6.5	12292	7.5	6022
-34.0	61258	-20.0	26072	-6.0	11969	8.0	5877
-33.5	59332	-19.5	25324	-5.5	11656	8.5	5737
-33.0	57475	-19.0	24600	-5.0	11352	9.0	5600
-32.5	55682	-18.5	23899	-4.5	11057	9.5	5467
-32.0	53952	-18.0	23221	-4.0	10770	10.0	5337
-31.5	52281	-17.5	22564	-3.5	10492	10.5	5210
-31.0	50668	-17.0	21928	-3.0	10222	11.0	5087
-30.5	49110	-16.5	21312	-2.5	9960	11.5	4967
-30.0	47606	-16.0	20715	-2.0	9705	12.0	4851
-29.5	46145	-15.5	20137	-1.5	9458	12.5	4737
-29.0	44735	-15.0	19577	-1.0	9218	13.0	4626
-28.5	43372	-14.5	19034	-0.5	8985	13.5	4519
-28.0	42056	-14.0	18509	0.0	8758	14.0	4414
-27.5	40784	-13.5	18000	0.5	8537	14.5	4312
-27.0	39556	-13.0	17506	1.0	8322	15.0	4213
-26.5	38368	-12.5	17028	1.5	8114	15.5	4116

NOTE:

Sensor is considered in short circuit if its value is lower than 500 Ohm;

Sensor is considered an open circuit if its value is higher than 100k Ohm.