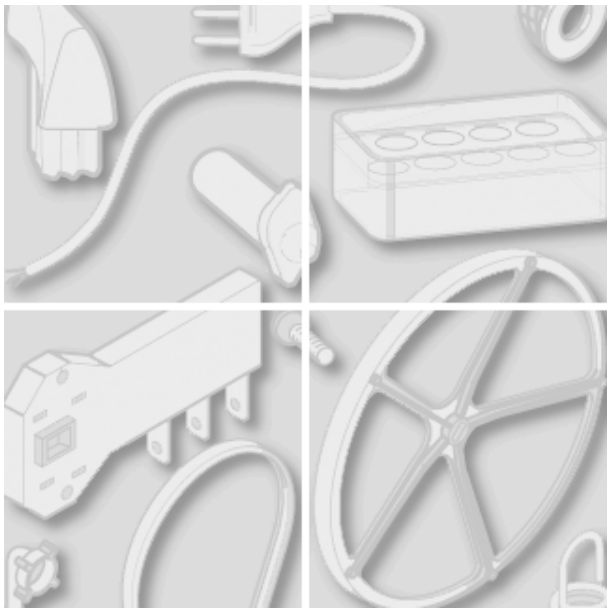
INDESIT company



Model type:
CA238S

Commercial code:
F026956

General notes

Technical Documentation guidelines

You can find herewith some generic information to simplify cunsulting of technical documentation:

1. Models of same range share the same exploded views, which report the richest set of spare parts:generally, a model does not necessarly have a related spare part for each particular shown on exploded views.

2. Some spare parts can not be represented directly on the exploded views (instruction booklets, specific kit, etc...). You can find those codes in the spare parts list with the same reference of particular where spares are installed or with references 099, 999. Instruction booklets, once managed, appear with 000 reference.

3. On the higher right site of each exploded view there is a serial number which indicates the beginning of the production of certain range:some models might have more than an exploded view for a given category, each distinguished by a different serial no.and linked to another spare parts list, In this case, serial no. is required to supply the right spare part code. Exploded view to be considered is the one with a more recent serial no. but previous than the one of the model that needs assistance.

4.Exploded views might require further updates even after publishing. Addition of new spares will go on following the already existing numeration references. Revision number of an exploded view is shown into last four digits of serial number into upper right hand corner.

5.The spare parts list associated to an exploded view shows related codes of spares managed for a certain model; for each spare part other informations are available:

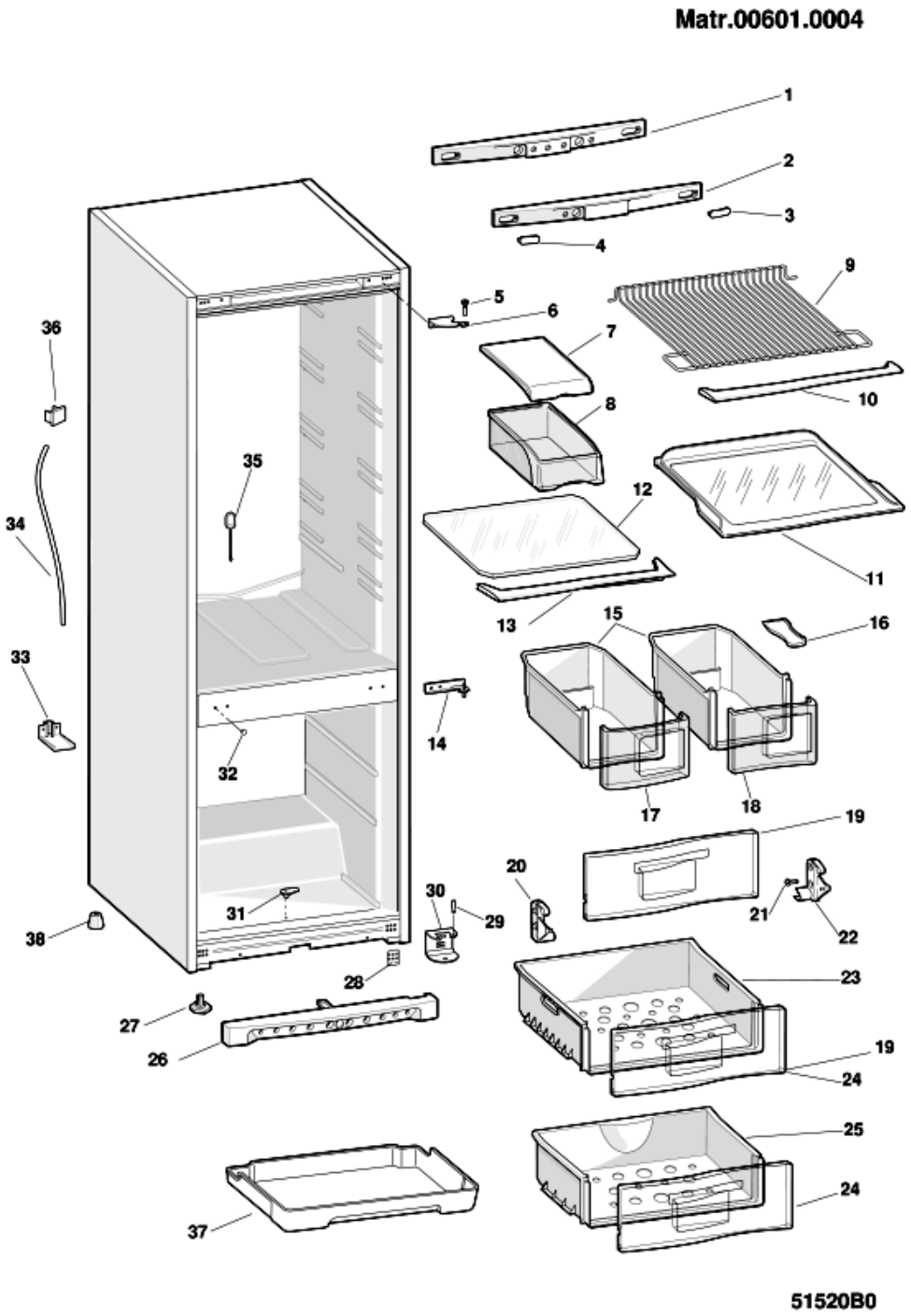
REF: reference no of spare into a table; SUBSTITUTE: list of spare(s) which can replace a code but that keeps same functional characteristics

INDUSTRIAL CODE: list of variables of a model (shown into model label) where such spare is used; NOTICE: code of information(s) to refer to complete technical intervention, track for changes or to find correct spare part code.

6. Some notices, into a same section are generic therefore cannot be directly linked to a spare part. In order to assist a model in the best way as possible, it is helpful to pay attention to all notices and constantly verify documentation updates

7.Technical documentation cover shows model name and its commercial codes

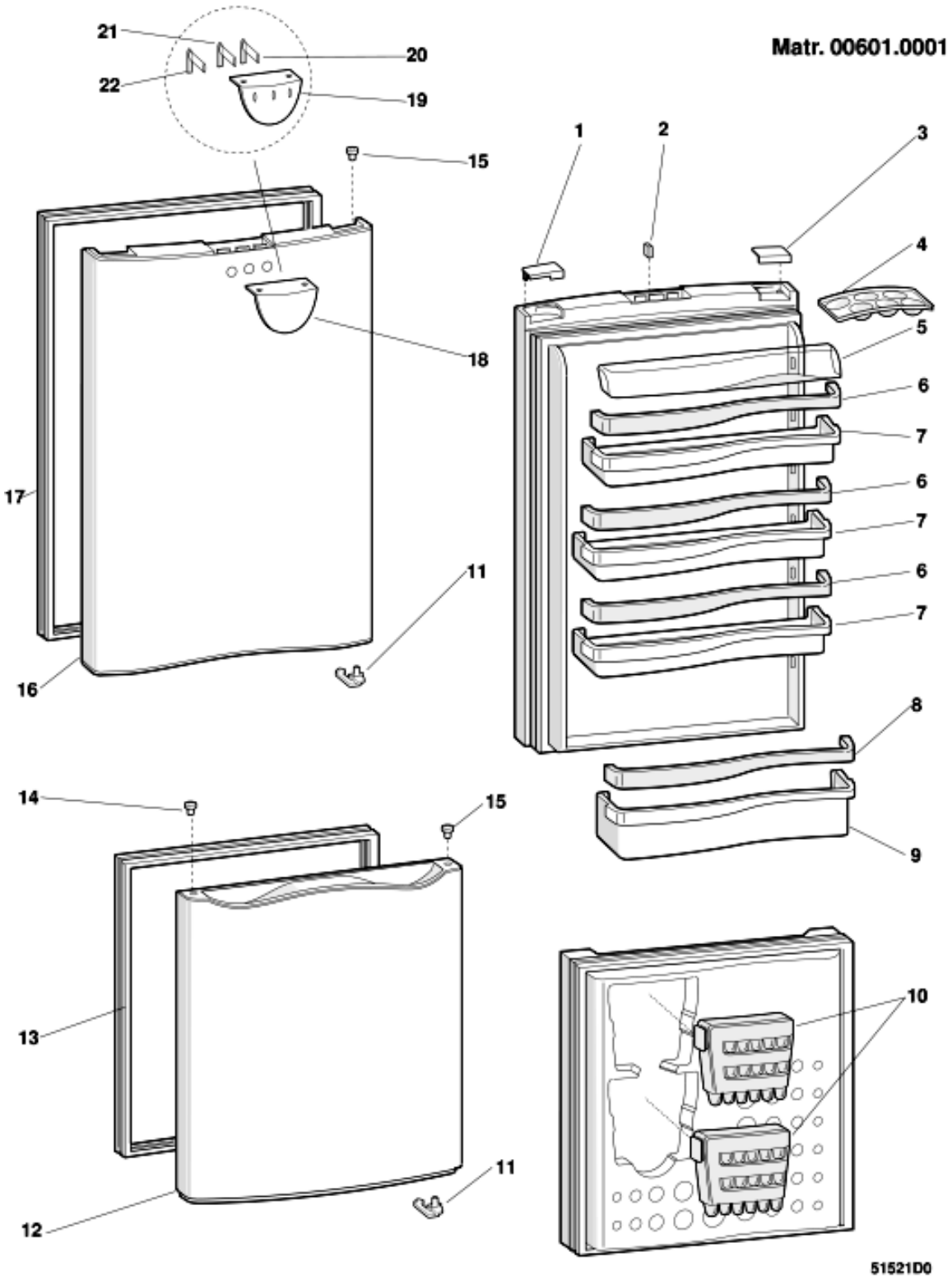
51520b0 Exploded views



51520b0 Spare parts list

Ref.	Code	From	To S/N	Substitute	Description	Notice	Industrial
000	C00077203				user instruction book c138s silver		
001	C00085438				control panel-top cover		
003	C00078446				hinge surround (74x20) - silver		
004	C00078447				blanking plug (74x20) -		
005	C00075565				hinge pin - m8x3 (18+2,5)		
006	C00081644				upper hinge lh-rh		
007	C00048475			1 x C00114786	meat box cover - white		
008	C00081683			1 x C00095179	meat holder colour-69		
011	C00077246				glass shelf (wxh 527x32x362)		
012	C00084446				crisper cover (499x317x4mm)		
013	C00076537				crisper cover trim (493mm) -		
014	C00053838				central hinge - chrome		
015	C00075590			2 x C00096115	crisper box (wxhxd		
016	C00003261				ice scraper - white		
017	C00075592			1 x C00076538	panel lh crisper box wxh 246x155		
018	C00075591			1 x C00076542	panel rh crisper box wxh 246x155		
019	C00075601			1 x C00075595	fast freeze door flap indesit		
023	C00075593				middle & top drawer		
024	C00075595			1 x C00076116	panel front (440x197mm)		
025	C00075594				lower drawer (440x242x160)		
026	C00078451				front base		
027	C00053419				adjustable foot		
028	C00075566				lower hinge fixing plate (30x40) 6		
029	C00017658				hinge pin m6x13,5		
030	C00076614				lower hinge assy(m6) rh-lh -		
031	C00031177				plug - drain hole 10,5mm - white		
032	C00007749				hole cover grey d,4,5x3 mm		
034	C00031183			1 x C00282165	defrost water hose d.9,5x110 cm		
035	C00045965				cleaner/plug 6x120-defrost		

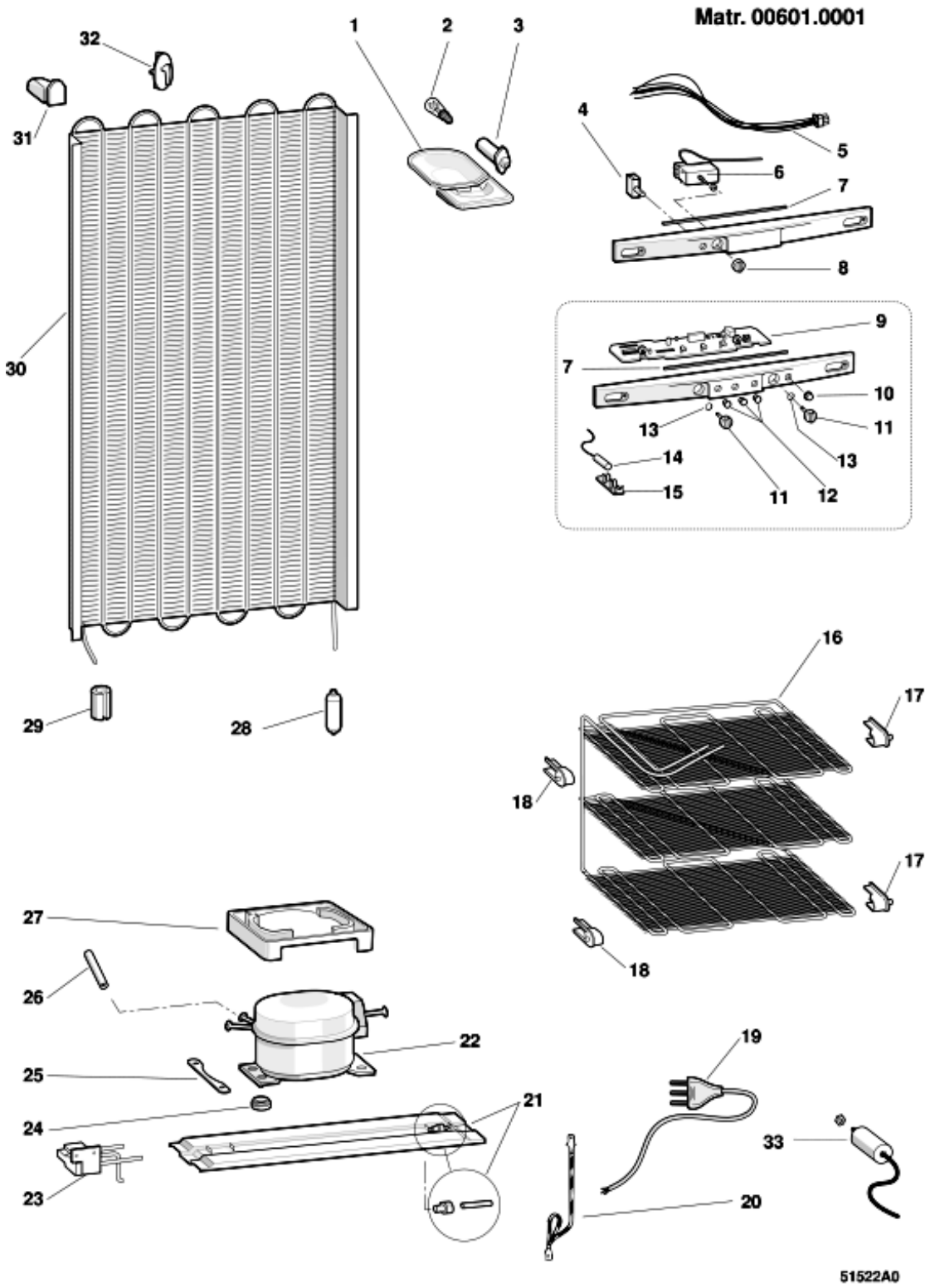
51521d0 Exploded views



51521d0 Spare parts list

Ref.	Code	From	To S/N	Substitute	Description	Notice	Industrial
001	C00078449			1 x C00174873	hinge cover rh 59x35- silver	n1025110	
001	C00084361				hinge surround(lh)upper door	n1025110	
002	C00075612				magnetic switch (door stop)	n1030034	
003	C00078450			1 x C00174686	hinge cover lh 59x35- silver		
004	C00076539			1 x C00114690	eggs tray (6) - white		
005	C00075542				hinged box cover (483x48x79) -		
007	C00075534				egg shelf - white (484x65mm)		
008	C00084771				section big shelf - white 513x70		
009	C00075533				bottle shelf 484x112 white		
010	C00075560				ice cubes conteiner (indesit00)		
011	C00082894				lh door stop bush - grey		
011	C00082899				rh door stop bush - grey		
012	C00078472				freezer door indesit00	n1025093	
013	C00075531			1 x C00115566	freezer door gasket (554x682)	n1025093	
014	C00057321				blanking plug (h.14 d.13,8/9,5) -		
015	C00016387				hinge bush 4mm - grey		
015	C00041825				grey door bush 2,5 mm		
016	C00078474				fridge door indesit00 592x987x61	n1025093	
017	C00075530			1 x C00115567	fridge door gasket (550x896)	n1025093	
019	C00078478				label holder silver indesit (3-pilot)		
020	C00075608				yellow pilot lamp (w.53x32/13)	n1030049	
020	C00087500				neutral colour pilot lamp		
021	C00075610				greend pilot lamp (w.53x32/13)	n1030049	
021	C00087501				neutral colour pilot lamp		
022	C00075609				red pilot lamp (w.53x32/13)	n1030049	

51522a0 Exploded views



51522a0 Spare parts list

Ref.	Code	From	To S/N	Substitute	Description	Notice	Industrial
001	C00054000				lamp box		
002	C00006522				lamp 15w (e14)		
003	C00031233				lamp-socket (libero 1061) 250v		
007	C00075629				sponge(350x5x5)		
009	C00075606				card micropr. (magnetek	n1030020 n1030051	
010	C00078475				buttons cover silver-647	n1030041	
010	C00085285				buttons cover grey-446 (h=5,5	n1030041	
011	C00078476				trimmer knob silver-647 (c238)	n1030066	
012	C00059921			1 x C00132028	lens (indicator light)		
013	C00064775				gasket oring dia=11/8 mm		
015	C00075633				sensor clamp (probe)		
016	C00075614				freezer evaporator electrov.		
017	C00075596				plastic evaporator fixing right		
018	C00075597				plastic evaporator fixing left hand		
019	C00008598				mains supply cable 3x0,75		
021	C00013997				mounting channel 586mm -		
022	C00058964			1 x C00144744	comp nly6f 220-240/50		
023	C00075616			1 x C00078984	electrov.3-way elbi368 240/50	n1030026 n1030057	
023	C00078982		60702...	1 x C00078984	electrov.3-way bitron510 240/50		
023	C00143137	60703...			electrov.3-way bitron 220v r134-		
024	C00032453				rubber shock absorber -		
025	C00008471			1 x C00193590	fixing plate - compressor (750908)		
026	C00042354				charging pipe 6x90 mm r134a		
027	C00054788				defrost water tray - (plastic)		
028	C00064790			1 x C00290451	filter gr.12 (d.4,8/d.4,2 mm) gas	n1030026	
028	C00078983				filter gr.12 (d.4,8/d.3,2 mm) gas	n1030057	
029	C00037341				anti vibration rubber bush		
030	C00075620				condensator imat		
031	C00015332				spacer - condenser		
033	C00058962				starting capacitor 3mf (ducati)		

Notices

n1025093: Doors / weather stripping combined fridges / freezers Indesit/2000 Melano and Setubal

---

With the exception of the model R45, width 700 mm produced in Turkey (Manisa), on all the combined fridge and freezer models in the Indesit (range 2000), width 600 mm produced in Italy (Melano) and in Portugal (Setubal), Poland (Lodowek) the doors handled as replacement are without weather stripping because this is no longer blocked between door and counter-door.
The weather stripping has a new profile and is located in the housing resulting along the external perimeter of the counter-door, where it is threaded through by simple hand pressure. To remove the weather stripping it will suffice to unthread it from its housing without any other operation.

Therefore in case of replacement of the door the weather stripping may be recovered from the existing door, however the weather strips are handled singularly as a spare part.

n1025110: Little lids for the door panel for the right opening version Indesit 2000 - 600 mm wide

---

From October 2001, little lids for door panel are available for the SAT code, to use on refrigerators and on combined-freezers (600mm wide), belonging to the series Indesit 2000, when the door opening is changed from right to left.
In fact, only on the product, which has the right hinges, the little lids of the piece of furniture are reversible; whereas those belonging to the door panel are specific for the right door opening.
The little lids for the version with left hinges are contained in specific coloured kit, which contain also the taps for closing the holes on a piece of furniture, which remain free on the opposite site of the central hinge.
It is important to remember that the holes to fix the central hinge are not present on the left site of the piece of furniture, when the door opening is converted. The holes are indicated only with a punching. The holes have been done after the work-ending with a 3mm bit

Kit of little lids for the door-panel of left version

084358 - WHITE KIT OF LEFT UPPER DOOR-COVERING
084361 - SILVER KIT VER-647 OF UPPPER LEFT DOOR-COVERING
084362 - BLUE KIT OF UPPER LEFT DOOR-COVERING
084363 - YELLOW KIT OF UPPER LEFT DOOR-COVERING
084364 - BEAVER-COLOURED KIT OF UPPER LEFT DOOR COVERING
084360 - ALUMINIUM-COLOURED KIT OF UPPER LEFT DOOR-COVERING

n1030020: Replacement of NTC sensors on latest generation of "cold product line" models

---

(KRF 310VE - KRF330VE - KRF310VNFE - KRF330VNFE), including the new combo appliances in the Indesit-2000 range (C238 e C240), Ariston-2001 (MBA3831-4031- 4231 ; MBA3841 - 4041) on static or no-frost "cold product line" models of the latest generation electronic version, the NTC sensors cannot be replaced because they are blocked within the cabinet. This decision is due to the low faultiness of the component and to the high guarantees of operation in foam-insulated environments.

The exceptions to the aforementioned are the upright Ariston electronic 600 mm wide freezers, rounded aesthetics, Ariston models EUP300XEU - EUP350XEU - TUP300XOM (including deriving versions) where the sensor can still be replaced in the event of a fault.
Where the replacement of the product is deemed necessary by the probe defect, then it is important to closely check that the problem is determined by the probe and not by the electronic card.
In order to check the correct operation of the probe it is possible to measure the resistance of the wiring harness terminals that must present the following values :

- temperature of + 20 °C = about 2.000 ohm (air probe at environment temperature)
- temperature of + 5 °C = about 7.000 ohm (fridge air probe)
- temperature of - 18 °C = about 23.000 ohm (freezer air probe)

Also, in a less technical manner, replacing each probe on the electronic card (at room temperature) in a "steering" manner, checking the elimination of the problem (if the compressor starts the probe is defective).

N.B. the probes are identifiable by their coloration (marking) placed on the probe and its wiring harness :

-fridge evaporator probe (black marking)
-fridge air probe (brown marking)
-freezer air probe (white marking)
-freezer evaporator probe (no-frost) end of defrost (light blue marking).

n1030026: Solenoid valveBytron-510 for combined products Ariston-Indesit of series 2000

From the half of July 2001 the production of Melano is using on the combined products Ariston and Indesit, belonging to series 2000, a new three-way solenoid valve - model Bytron-510 to 220-240V 50/60Hz for gas R134A and R600A.
There is only an exception for the models Ariston with display, which continue to use the solenoid valve Elbi 368.
The new solenoid valve Bytron- 510 has the same technical and working features of the preceding one (Elbi 368), although it is built up differently because for the following reasons:

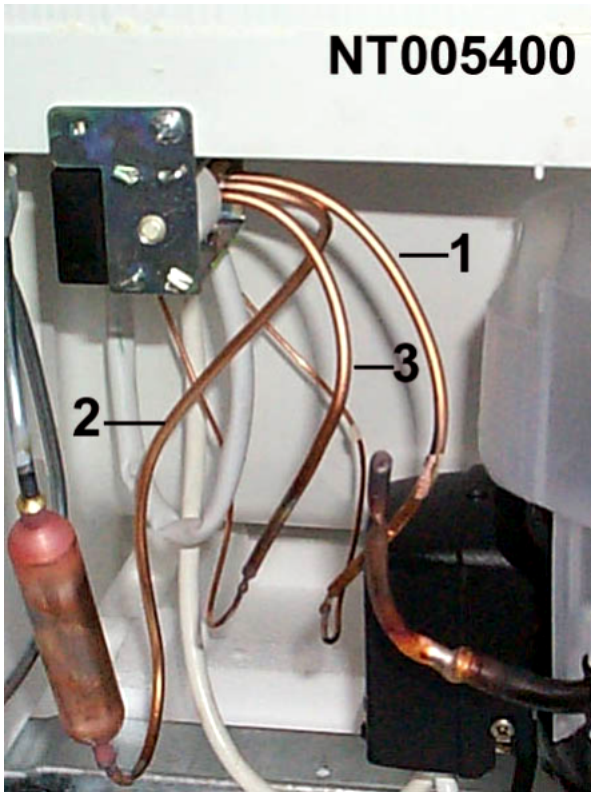
1) The body on plastic with four fixing-points (two for sides): at first it was metal only with a fixing-point.
2) The location of the three tubes (at first they were on the same right side with the central entry) now are subdivided in this way: two of them are on a side (long-entry and short-exit for the freezer-evaporator) and one of them is on the opposite side (the other exit for the refrigerator-evaporator).
Moreover, the external diameter of tubes was 4 mm, and now it is 3 mm.
3) The probable bending of tubes and their length, although they are different between the two solenoid valves, are not binding for the assembly.

During the assembly on the product (left side of the compressor-zone) its location/fixing is not changed excepting for the type of

nail 4x15 for the model Elbi-368 and of 2,9x9,52 for the model Bytron-510.
Moreover a new molecular filter 078983 is used to couple with the 3mm entry-tube (at first on the model Elbi-368 the filter 064790 was installed to be coupled with the 4mm entry-tube).
As spare part, only the solenoid valve Elbi-368(075616) will be managed and in the case of its use instead of the Bytron-510, also the molecular filter (078983) will be substituted with the other one (064790) because of the problem of the diameter of tubes.

P.S. We have to remember that, apart from the kind solenoid valve, the tube with the white little sign has to be connected to the capillary of the refrigetor-evaporator marked with white paint.
Moreover to understand better the difference, two images have been made (NT005400 and NT005500) relating to the solenoid valves, on which the location of tubes has been underlined with the numbers (1-2-3):
1) capillary for refrigerator-evaporator (exit)
2) molecular filter (entry)
3) capillary of freezer-evaporator (exit)

Solenoid valve Elbi 368 (photo NT005400)
Solenoid valve Bytron 510 (photo NT005500)

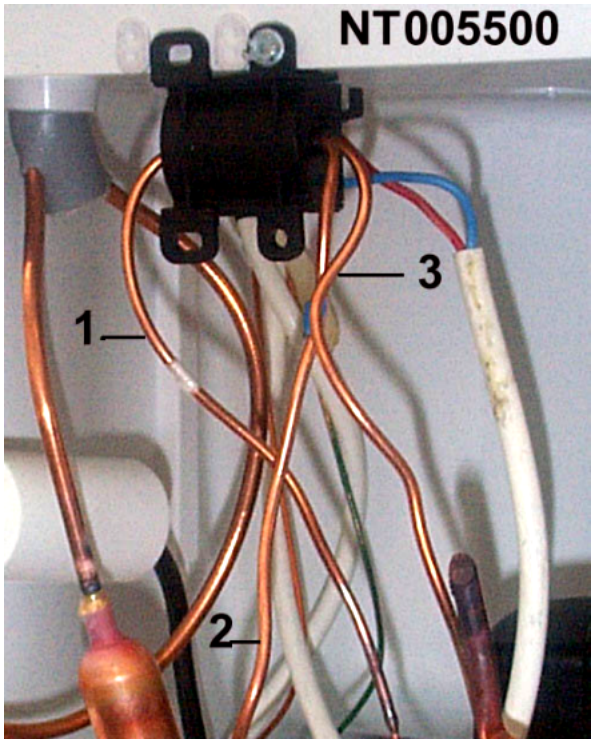


n1030034: Magnetic switch on combined electronics Ariston-Indesit range - 2000

On combined electronic models (Ariston and Indesit, range 2000) on the base of the door's dashboard of refrigerator, there is a magnetic switch assembled (075612) with a rectangular shape that must be inserted on the appropriate hole in the narrow side (the position is compulsory for the stop and the correct function of the product).

The missing of the magnetic switch can cause the following inconvenient with open or closed door:

-If the product has being lit for more than 3 minutes and if magnet is missing, the lamp flashes (if is not broken) as soon as the door opens.



So, in case of substitution of the fridge door, to avoid this inconvenient, together with the dashboard and the moulding, the magnetic switch must always be rescued.
From the end of July the production Dpt. will supply as spare parts the fridge doors of combined electronics, already included with the magnetic switch.
(Anyway please verify always its presence).

n1030041: Substitution of the painted lever cap with grounded lever cap (models Ariston/Indesit series 2000)

From October-2001 (registration number 11012.0001) Melano's manufacture has substituted on the electronic models, excluded the ones with display, the painted lever cap with the grounded one: the white for the blue one, or grey for all the others colored ones.
It is necessary to do this modification, because the painting interfered and blocked the lever on the instrument panel.
The interested models are those of the combined freezers Ariston series-2001 and Indesit series-2000.

New components:
059919 - WHITE LEVER CAP
085285 - GREY-446 LEVER CAP

Substituted components:
083768 - SILVER LEVER CAP
084423 - YELLOW-1003 LEVER CAP
080615 - YELLOW LEVER CAP
082975 - ALUMINIUM-MET COLORED LEVER CAP
082110 - BLUE LEVER CAP
078475 - SILVER-647 LEVER CAP

n1030049: Transparent gems on combined Indesit electronic range-2000 wide 600

From the month of February 2002 (reg. No. 20204.0001) the Melano production has substituted on combined Indesit electronics, wide 600, the coloured indicator gems with those which are neutral in colour (transparent) that improve the luminosity of the indicators assembled on the appliance's instrument panel.
There are two types of these new gems: one is 53mm X 32mm long, the other is 57mm x 32mm long, and they can also be assembled on the pre-modified models.
The mentioned gems are those assembled on the trademark-bearer of the door fridge; the yellow and the red will be substituted with the short gem; while the green one will be substituted with the long gem.

New particulars

087500 - INDICATOR GEM 44-NEUTRAL (L . 53X32/13)
087501 - INDICATOR GEM 44-NEUTRAL (L . 57X32/13)

Particulars substituted

075608 - YELLOW INDICATOR GEM (LxH. 53X32/13)
075609 - RED INDICATOR GEM (LxH.53X32/13)
075610 - GREEN INDICATOR GEM (LxH.53X32/13)

n1030051: Drawing electrovalve Ariston-Indesit com

Supplementing note N1030046, we point out that as of March-2002 (serial no. 20308.0001) the Melano factory has been using the modified cards for controlling the electrovalve, on the Ariston and Indesit electronic combined fridge-freezers 2000 range (width 600):

1) Card 406001.xxx - white plate / week (wk) 06-2002
2) Card 406001.xxx - green plate / week (wk) 06-2002
3) Card 406201.201 - yellow plate / week (wk) 03-2002
4) Card 406301.201 - pink plate / week (wk) 03-2002
5) Card 406401.202 - sky-blue plate / week (wk) 02-2002
6) Card 406401.302 - violet plate / week (wk) 02-2002
7) Card 408002.xxx - grey plate / week (wk) 06-2002

NB - The complete abbreviations of the cards with plate (white, green, grey) are not yet known; hence the presence of the (xxx) in the final part.

These cards solve the faultiness found in use in the last period December-January-February- 2002 concerning drawing of the electrovalve.
To temporarily solve the problem, production initially included a resistance in parallel (22000 ohm), however, if this solution is not definitive, on these models it will also be necessary to replace the card with the new version, which gives the start of production date as week: 02-2002 / 03-2002 / 06-2002.

The following cards managed as a replacement at the warehouses of Fabriano - Corby - Basse Ham - Setubal - Manisa have all been removed and replaced with those for controlling the electrovalve:

075606 - Card 4060 - white plate / wk 06-2002 (basic models Indesit L.600 C-CA238-240-242)
076908 - Card 4060 - green plate / wk 06-2002 (basic models Indesit L.600 C-CA233-239)
080993 - Card 4062- yellow plate / wk 03-2002 (evolution models CE238V-239V-240V)
081817 - Card 4063- pink plate / wk 03-2002 (no frost model C239NF)
082097 - Card 4064- sky-blue plate / wk 02-2002 (no-display versions models MBA383V)
084784 - Card 4064- violet plate / wk 02-2002 (no-display versions models MBA383-403C-CV)
081843 - Card 4080- grey plate /wk 06-2002 (display versions models MBA384-404C)

n1030057: New Bitron-510 solenoid valve on combined refrigerator-freezers (Melano-Carinaro

---

The Bitron-510 solenoid valve was already used in July 2001, for a short period of time, by the Melano production (see note N1030026). At that time, it was decided not to manage it as spare part in place of the Bitron/Elbi 368 item.
Now, seeing that it is being used in the Melano (November 2002) and Carinaro (March 2003) factories, it has been decided to manage it as spare part, in place of Bitron/Elbi 368.
The Bitron-510 solenoid valve can also be fitted on premodification models using the KIT that includes the molecular filter.
The Bitron-510 solenoid valve used in the Melano factory is not interchangeable with the one used in the Carinaro factory because the tube bending is different.

For Melano, this modification affects Opera-60 Ariston combined refrigerator-freezers and the Indesit 2000-2002 range from serial no. 21111.0001; for Carinaro, it affects Ariston built-in combined refrigerator-freezers 2002 range, from serial no. 30323.000.

N.B. Please remember that the tube marked with adhesive tape is the one that must be connected to the capillary tube (marked with the varnish) of the refrigerator evaporator, whichever the type of solenoid valve used.

New parts (Melano)
078982 - 3-WAY SOLENOID VALVE BITRON510 220-240/50-60 R134A-R600A (KIT)
078983 - FILTER GR.12 (D.4.8/D.3.2 MM) GAS R134A

New parts (Carinaro)
093890 - 3-WAY SOLENOID VALVE BITRON510 220-240/50-60 R134A-R600A (KIT)
078983 - FILTER GR.12 (D.4.8/D.3.2 MM) GAS R134A
093899 - FILTER GR.12 (D.4.8/D.3.2 MM) GAS R600A

Parts replaced (Melano)
075616 - 3-WAY SOLENOID VALVE ELBI368 220-240/50-60 R134A-R600A
064790 - FILTER GR.12 (D.4.8/D.4.2 MM) GAS R134A

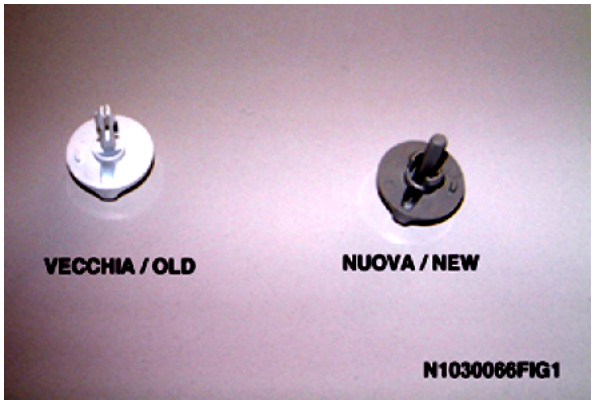
Parts replaced (Carinaro)
076015 - 3-WAY SOLENOID VALVE BITRON368 220-240/50-60 R134A-R600A (KIT)
064790 - FILTER GR.12 (D.4.8/D 4.2 MM) GAS R134A
088520 - FILTER GR.12 (D.4.8/D 4.2 MM) GAS R600A

n1030066: Modification of trimmer knob on Ariston Opera-60 and Indesit fridge-freezers

---

In November 2003 (serial no. 31101.0001) the Melano factory replaced the control panel knob with rear expansion on Ariston Opera-60 and Indesit fridge-freezers (see fig.1).
This modification solves the problem of card damage and facilitates removal, that previously was only possible using tweezers.
With the new solution the knob locks on the control panel and not on the card trimmer.
For disassembly or removal, the knob must always be set (as the previous one) to stop = dot (see fig. 2).
This is necessary in order to fit or extract the knob pin from the trimmer without damaging it, after which the knob can be set to the desired operating position.
To remove the knob from the trimmer, lightly press the pin; when refitting, protect the trimmer with fingers to avoid damaging the card.
When working on the card or control panel make sure to always insert the card before fitting the knob.
The new knobs can also be fitted on premodification models; Service codes will remain the same, after replacing stocks.

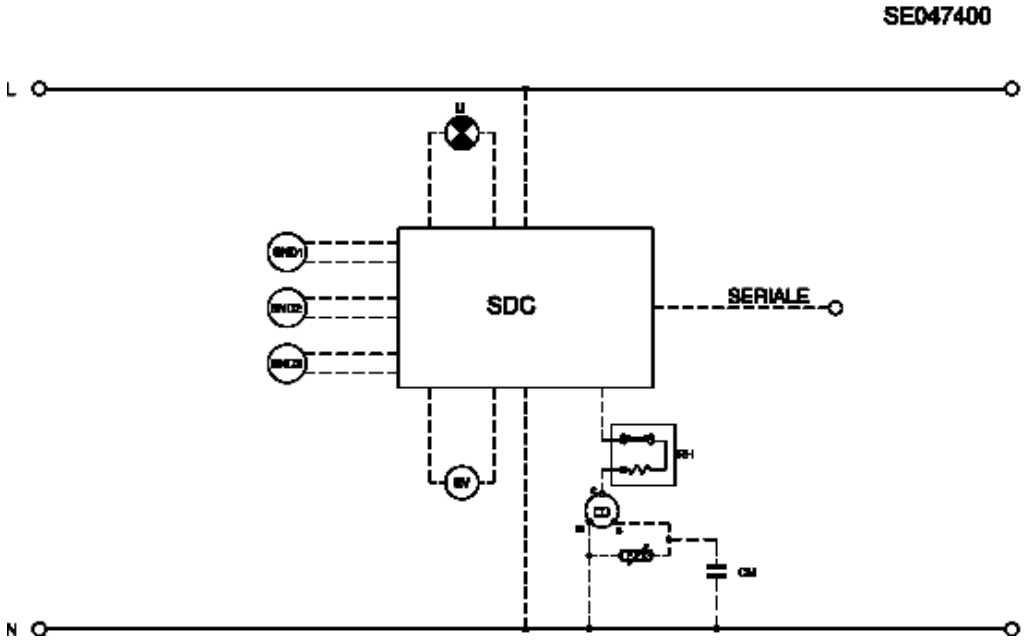
080610 - TRIMMER KNOB BROWN-18
080611 - TRIMMER KNOB YELLOW (mass)
084424 - TRIMMER KNOB YELLOW-1003 (varnished)
082976 - TRIMMER KNOB ALUMINIUM-MET
083769 - TRIMMER KNOB SILVER
082116 - TRIMMER KNOB BLUE
078476 - TRIMMER KNOB SILVER- 647
075608 - TRIMMER KNOB WHITE replaced with 175020





Electric schemes and links

Cod. se047400



Legend

Legend: se047400

BZ	Audio freezer alarm	R	Heating resistance
C	Surge Capacitor	RA	Ammetrical relay
CM	Running capacitor	RAN	Heating element condensation
CO	Compressor	RFZ	Heating element condensation freezer
EV	Electrovalve	RH	Thermal relay
FA	Radio anti-trouble filter	RS	Defrosting resistance
IDS	Schackler with warning	RS1	No frost evaporator resistance
IEC	ON OFF loads switch	RS2	No frost drip pan resistance
IEFR	ON OFF refrigerator switch	RS3	Defrosting resistance
IETH	Thermostat exclusion	RS4	Defrosting resistance
ILFR	Push-button for fridge lamp/fan	RTA	Thermo actuator defrosting resistance
ILFZ	Push-button for freezer lamp/fan	SA	Allarm warning
ILI	Lamp switch	SC	Freezing warning
IP	Door switch	SDC	CONTROL CARD DIAGRAM
IR	Line switch	SL	Line warning
ISC	Warning light-freezing switch	SND1	SONDE VERDAMPFER KUEHLSCHRANK
IV	Fan-motor switch	SND2	SONDELUFT FREEZER
IVFZ	Freezer fan-motor switch	SND3	AIR-PROBE REFRIGERATOR
L	Line	SND4	Sonda evaporator freezer
LFR	Fridge lamp	SND5	SONDA ARIA FREEZER VANO
LFZ	Freezer lamp	T	Erden
LI	Lighting lamp	TA1	Open thermo actuator
M	Mass/Eart symbol	TA2	Closed thermo actuator
MO	Terminal board	TC	Turbocooling
MT	Timer motor	TF	Fuse-thermic
MV	Fan motor	THA	Allarm thermostat
MVC	Compressor fan motor	THC	Freezer thermostat
MVCO	Compressor compartment fan	THDF	Refrigerator shackler thermostat
MVFR	Fan motor fridge	THI	Thermostat switch
MVFZ	Fan motor freezer	THR	Adjustable thermostat
N	Neutral	TP	Thermoprotector
PTC	PTC relay	TR	Transformer