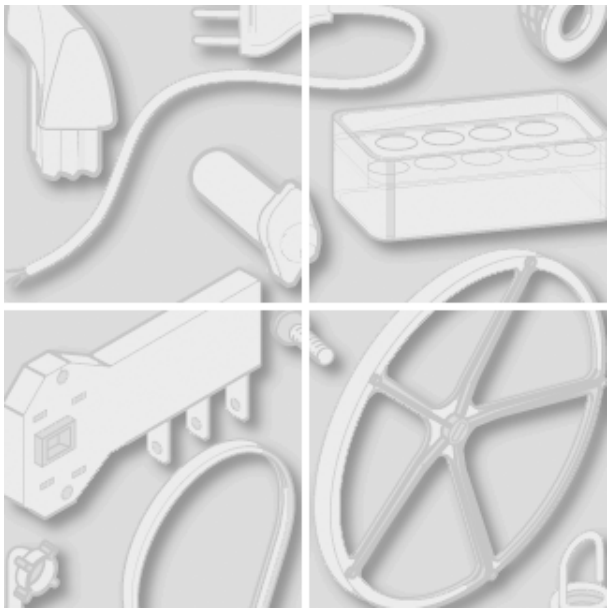
Merloni Elettrodomestici



Model type:
WS105TXEX

Commercial code:
23356

ARISTON INDESIT Scholtès PHILCO

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

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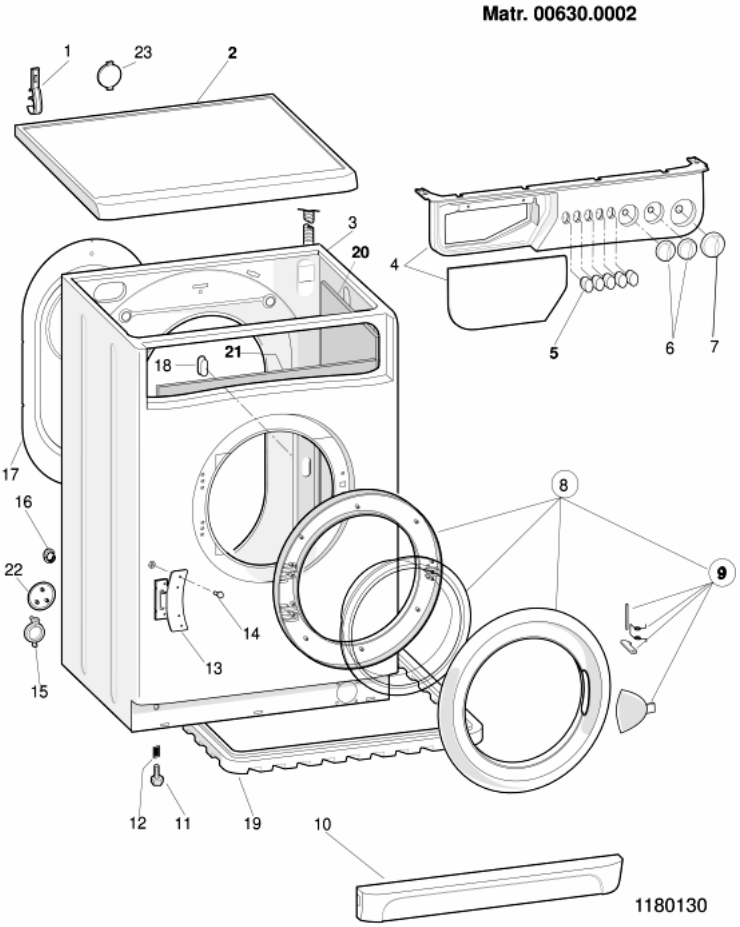
cod. 1180130



Spare parts list

Spare parts list cod. 1180130

Ref.	Code	Substitute	Industrial code	Description	Notice
000	C00078627			user instructions bookl rs-pl-cz-gb-d-f	
001	C00046667		80233560100,80233560101	wiring stop	n1040282
001	C00064550			dain hose holder	n1040282
001	C00091904		80233560130	cable clamp hose	n1040282
002	C00076747			top - white 40 cm x 59,5 cm	
003	C00076744	1 C00090576		cabinet	n1040230
003	C00090576			cabinet white	n1040230
004	C00078626			dashboard + handle	
005	C00075317			pushbutton white	
006	C00075318			components knob white 27	
007	C00075319			wash timer knob white	
008	C00076748			door frame assy	
009	C00075323			door handle kit	
010	C00075324			plinth white	
011	C00050320			foot - rear m 8 h = 41 mm	
012	C00059869			spring for foot d =11 mm h = 21 mm	
013	C00075325			hinge door	
014	C00002497			nut m4x3,2x7	
014	C00019846			bolt t 1/2 t m4x12	
014	C00065185			bolt m4,5 x 11	
015	C00046666			collar for drain hose	
016	C00003144			blanking plug 11mm	
016	C00065871			blanking plug	

017	C00064501	1 C00099313	rear cover - white	
018	C00064899		blanking plate-rear(test plug)	n1040208
018	C00084817		blanking plate-rear(test plug)	n1040208
019	C00076401		panel paraspray	
099	C00065728	1 C00077411	rubber	
099	C00066091	1 C00077411	washer packing	

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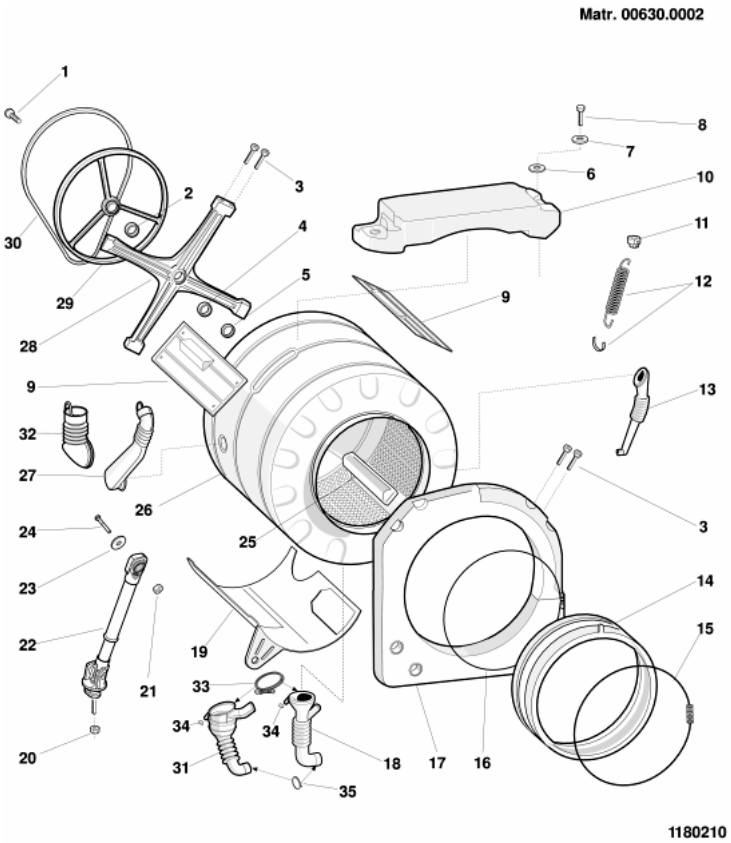
cod. 1180210



Spare parts list

Spare parts list cod. 1180210

Ref.	Code	Substitute	Industrial code	Description	Notice
001	C00064786			bolt m8x20 tefl	
002	C00026299			circlip 60 x 1.5	
003	C00051737			torx m8 x 27 dri-loc screw	
004	C00026298			bearing ba2b 633667 30x60.03x37	
005	C00039667			oil seal bearing + spider/tank seal	
007	C00055018			washer m8	
008	C00014342			bolt m8x75 te	
009	C00065918			support left right lb	
010	C00064548			upper counterweight 11 kg	
011	C00064515			anchorage pad - suspension spring	
012	C00064502			suspension spring - tank	
013	C00074144			detergent recovery hose	
014	C00074133			door bellows seal no deterg. recovery hos	n1040282
014	C00094093		80233560130	door bellows seal 28-30 cm lb als - ws	n1040282
015	C00064546			clamping ring - bellows seal front	
016	C00064547			bellows clamp (tank front)	n1040282
016	C00092155		80233560130	bellows clamp (tank front)	n1040282
017	C00064516	1 C00092178		front counterweight	n1040282
017	C00092178		80233560130	front counterweight	n1040282
018	C00064531		80233560100,80233560101	hose tank to filter	n1040282
019	C00066074	1 C00093878		cradle outer- set	n1040286
019	C00093878		80233560130	cradle outer- set	n1040286
020	C00040932			self locking nut m6	

021	C00030443	1 C00047136	80233560130	nut romob m8	n1040286
021	C00030680	1 C00040130		nut m 10	n1040286
021	C00065152			nut romob m6x20x1,6	n1040286
022	C00064503			shock absorber 80 n	n1040230,n1040286
022	C00086515			shock absorber 80 n (11105) 10,1mm	n1040230,n1040286
022	C00093884		80233560130	shock absorber 80 n 8.15 mm	n1040230,n1040286
024	C00030446			bolt m10 x 45 zntr	n1040286
024	C00093750		80233560130	bolt zink m8x40	n1040286
025	C00065463			removable washing paddles 40 l	
026	C00074134	1 C00094098,1 C00094290	80233560100,80233560101	outer- set 40 l.	n1040191,n1040282,n1040291
026	C00092311	1 C00094098,1 C00094290	80233560130	outer- set 40 l.	n1040191,n1040282,n1040291
026	C00094289	1 C00094275,1 C00094290	80233560130	outer- set 40 l. evo ii	n1040191,n1040282,n1040291
027	C00074136		80233560100,80233560101	hose dispenser to tank	n1040282
028	C00074137			bearing spider assembly	
029	C00076930	1 C00081875		drum pulley 1400 rpm	
030	C00059721			belt l=1181/1187 mm h7	n1040194,n1040194
030	C00082762			motor shock absorber	n1040194,n1040194
031	C00092174		80233560130	hose tank to filter oko	n1040289
031	C00094312		80233560130	hose tank to filter oko ws - abs	n1040289
032	C00092161		80233560130	hose dispenser to tank	
033	C00091148			clamp d=79 mm	
035	C00092411			hose clamp	
099	C00033026			ambljgon grease ta 100 gr.	

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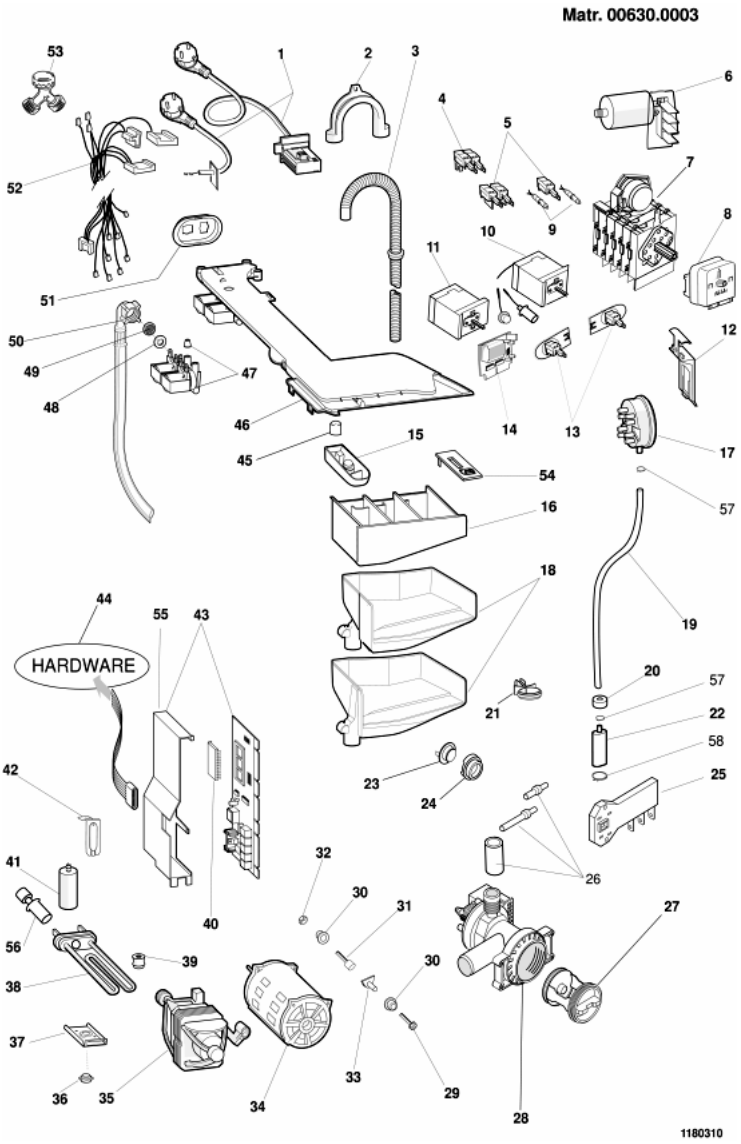
cod. 1180310



Spare parts list

Spare parts list cod. 1180310

Ref.	Code	Substitute	Industrial code	Description	Notice
001	C00064563			supply cable 3x1 schuko 1,5 m	n1040276
001	C00091633			supply cable 3x1 schuko 1,5 m + r.i.s.	n1040276
002	C00019902			plastic -u- to make drain hose hook	
003	C00027466			drain hose - to sink l=1860mm	
005	C00058465			push button switch na+na on-off	n1040246
005	C00063971			push button switch s.sa na (on-off)	n1040246
005	C00075445			push button switch na	n1040246
005	C00088394			push button switch na idc	n1040246
006	C00064559			radio interference suppressor	
008	C00064555			programme select switch 1665/1	
008	C00083916			programme select elbi 1665 rast.2 8 pos.	
009	C00075456			red pilot lamp indesit	
009	C00075457			pilot light red 12 v	
009	C00084763			pilot light red 12 v idc rast 2.5	
009	C00089024			pilot light red 230v ra2,5	
012	C00064537			support - pressure switch	
013	C00057242			potentiometer 8 pos.	
013	C00085195			potentiometer 8 pos. idc rast 2,5	
015	C00075459			additive container	
016	C00075352	1 C00097732		soap dispenser drawer	
017	C00074150		80233560100,80233560101	pressure switch 1 l. + antiowerflow	n1040282
017	C00087187			pressure switch 1 l.101-76 + antiowerflow	n1040282
017	C00092312		80233560130	pressure switch 1 l.80 -55 + antiower330	n1040282

018	C00075351		80233560100,80233560101	dispenser body	n1040282
018	C00092314		80233560130	dispenser body	n1040282
019	C00041785		80233560100,80233560101	air trap hose 540 mm.	n1040282
019	C00092170		80233560130	air trap hose 470mm. evo ii	n1040282
020	C00019755			anti-vibration bush (foam)	
021	C00064530			clip-pressure switch tube	
022	C00064532	1 C00092173	80233560100,80233560101	air trap	
022	C00092173		80233560130	air trap x oko	
023	C00053573			temperature sensor ("control") - white	
024	C00014917			grommet - thermostat	n1040191
024	C00020181			blank grommet - thermostat	n1040191
025	C00059539			thermal door interlock	
025	C00085194			door interlock	
027	C00045023			filter handle	
027	C00045025			filter seal	
027	C00045027			filter element kit	
028	C00064950		80233560100,80233560101	self cleaning pump 240v./50hz.	n1040282
028	C00076510	1 C00092264	80233560130	self cleaning pump 240v./50hz.	n1040282
029	C00052497			bolt m6x30	
030	C00104675			motor rubber bush	
031	C00064553			motor bolt	
033	C00050187			fixing nut	
035	C00043430			tacho generator black for ice motor	
035	C00047317			brush for motor (ice)..940n2101/940n1i01	
035	C00074209			motor collector 850/1000 rpm	
038	C00066086			heating element+termal cut-out 1700w/230v	n1040191
038	C00081837	1 C00087188		heating element+termal cut-out 1700w/230v	n1040191
038	C00087188			heating elem.termal cut-out 1700w/230v id	n1040191
039	C00058523			pillar retainer-heating element	
040	C00078625	1 C00092536	80233560100,80233560101	eeprom ws105txex software 28233560110	n1040191,n1040061,n1040066,n1040163,n1040282
040	C00092536		80233560130	eeprom ws105txex software 28233560130	n1040191,n1040061,n1040066,n1040163,n1040282
043	C00066054	1 C00080981		module (less eeprom) sw-v.032/033	n1040192,n1040192,n1040061,n1040078,n1040061,n10
043	C00080981	1 C00093350		module (less eeprom) sw 1.32	n1040192,n1040192,n1040061,n1040078,n1040061,n10
043	C00084838	1 C00093157		universal module (less eeprom) sw 220	n1040192,n1040192,n1040061,n1040078,n1040061,n10
044	C00066055	1 C00077454		housing seriale	n1040066,n1040211,n1040066
044	C00066292			insulated tweezers	n1040066,n1040211,n1040066
044	C00084943	1 C00099862		serial cable lb2000 - pc	n1040066,n1040211,n1040066

045	C00046157	stopper detergent container	
046	C00076756	hopper cover 1 ev 1e 2u	
047	C00064534	seal - electrovale/dispenser	
047	C00066518	2-way electrovalve 1e-2u 7 lt.	
049	C00005781	inlet hose filter	
050	C00003070	mains inlet hose cold 25c 10bar 1500 mm	
051	C00064946	electrovalve support 1 ev	
052	C00077002	wiring	n1040276
052	C00088228	wiring idc	n1040276
054	C00047069	additive cover	
056	C00081653	complete probe heating element	n1040191
056	C00083915	temperature sensor ntc elth tl ph2001	n1040191
057	C00092412	hose clamp	
058	C00008612	tube clamp 34,6-36,4	

Notices

n1040061
Trouble-shooting.

Intervention procedure on 2000 washing machines

1. Reading the error code

The fault on the appliance is signalled via:

1. the continuous rotation of the selector knob

2. the action, for the first 4', of the electrovalve and the drain pump

3. the door becomes unlocked

4. the led flashes:

the number of flashes indicates the fault code; the code should be read as follows:

· each fast flash (2/3 flashes of the led very close together) represents one code value

· the fault code is evaluated by counting the number of flashes occurring at 3/4" intervals from one another

· stop counting when the washing machine waits the equivalent of approximately 8/9" between flashes

· the procedure is repeated by the appliance cyclically

E.g.: F03

(FIGURE NT 00)

2. Autotest

Should the washing machine not be signalling an error, you can check it using a serial key and using a particular autotest cycle, which is to be activated as follows:

1. bring the washing machine to reset position (coloured ball) for at least 5" and wait until the led flashes on reset mode

2. insert the hardware key into the serial outlet

3. position the switch situated on the key in TEST position

4. wait for the door to lock and for the selector to start turning

5. position the switch situated on the key in PC position

the appliance will carry out the following cycle:

· selector moves on up to position 0 (12h if the appliance has a delay, programme 1 if it has no delay)

· loads the wash electrovalve for approx. 10"

· loads the pre-wash electrovalve for approx. 10"

· loads the wash electrovalve and pre-wash electrovalve at the same time until the pressure switch is on full

· heats up to 30° and moves the motor in both directions

· selector moves on for 9 notches

· drains and spins

· the selector knob stops on one of the reset positions

· STOP

The test cycle can be repeated as many times as you wish following the same procedures

The test cycle can be interrupted by positioning the selector knob on one of the reset positions.

3. Intervention in the event of a Fault

In the event of a fault, the procedure to go by is as follows:

F01: Triac Short circuit

Overhaul CNE

Replace Card

F02: Blocked Motor, Short-circuited/Open Tachometry

Overhaul CNE

Overhaul Motor connector

Control CNE Continuity/Motor Connector

Control Motor Windings

Control Tachometry Windings

Replace Card

F03: Open/Short-Circuited NTC Found

Overhaul CNA

Control NTC Wiring

Control CNA/NTC Wiring Continuity

Replace NTC

Replace Card

F04: Overflow and Pressure Switch Empty found at the same time (Pressure Switch stuck on Empty)

Overhaul CN1

Overhaul Pressure Switch Contacts

Control CN1/Pressure Switch Continuity

Replace Pressure Switch

Replace Card

F05: Blocked Pump or Pressure Switch stuck on Empty Found

Overhaul CNF (pump connector)

Overhaul Pump Connector

Control Pump Filter

Control Pump Windings

Change Pump

Replace Card

F06: Selector Error (a part no. cannot be found)

Overhaul CND (selector connector)

Overhaul Selector Connector

Control Selector/CND Continuity

Control Selector Motor

Replace Selector

Replace Card

F07: Resistance Relay Stuck

Overhaul CN1

Overhaul CN1

Overhaul Resistance Connection

Replace Card

Overhaul Resistance Connection

Replace Card

F08: Resistance Missing or Pressure Switch stuck on Full Found

Overhaul CN1

Overhaul Resistance Connection

Overhaul Pressure Switch Connection

Replace Resistance

Replace Pressure Switch

Replace Card

F09: Machine Setup Error Found

Control Microprocessor Version

Ask for EEPROM Spare Part indicating Microprocessor version

F10: Pressure Switch Empty and Full or neither Empty nor Full Pressure Switch Found

Overhaul CN1

Overhaul Pressure Switch Wiring

Control CN1/Pressure Switch Continuity

Replace Pressure Switch

Replace Card

F11: Pump Feedback Missing

Overhaul CN1

Overhaul CNF

Overhaul Pump Connector

Overhaul Pressure Switch Connector

Control Pump Windings

Replace Pump

Replace Card

F12 SPECIFIC FOR LVB2000 INDESIT EVOLUTION / DIALOGIC.

F12: Lack of Display card-Main Card Communication

1. Check the effectiveness of contacts on CNC Connector Card

2. Overhaul 8-way connector on Display card

3. Check continuity of CNC-CN 8 way connector

4. Replace Main Card

5. Replace Display Card

F13: NTC wiring harness disconnected from the dryer system

1. Check the efficiency of the terminals on the CNA connector board

2. Check NTC wiring harness

3. Check the wiring harness continuity of the CNA / NTC connectors

4. Replace NTC

5. Replace terminal board

F14: Dryer connector open or not connected

1. Check the efficiency of the terminals on the CNI connector board

2. Overhaul CN1

3. Overhaul connector connection

4. Replace the board.Merloni Elettrodomestici

F15: Dryer connector is always active

1. Check the efficiency of the terminals on the CNI connector board

2. Overhaul connector connection

3. Overhaul the pressure sensor connection

4. Replace the connector

5. Replace pressure sensor

6. Replace the board

F16: Non-functioning basket block

1. Go over connector card CNC

2. Go over connector basket block

3. Control Continuity of cabling CNC / basket block and basket block supply

4. Replace basket block

5. Replace card

N.B.From Fault F01 to fault F11

These are shown by LEDs in stand by/on in LVB2000 machines Ariston/Indesit.

From fault F01 to fault F12

These are shown in a display located on the instrument panel of LVB2000 ma-chines

Evolution Indesit.

From fault F01 to fault F15

Are those that are indicated according to the version via LED stand by/on or

display positioned on the Wash Dry machine Ariston/Indesit panel.

4. Replacing the card

Should you have to replace the card:

· retrieve the EEPROM from the old card

· reassemble the EEPROM onto the new replacement card (without EEPROM)

In the event, and only in this case:

· an F02 has been detected

· the above-mentioned checks have been carried out and no problems have been detected on the wiring or to the motor

· the card fitted onto the washing machine is a 12 or 20 version (the version is indicated by a label on the module-containing box with SW20 or SW12)

you should:

· fit on a new card (version 32 or above)

· fit on an updated EEPROM to request from the assistance service centre, stating the code (e.g. 80xxxxx0000 or 46xxxxx0000), the serial number and the washing machine model.

n1040066
LB2000 Hardware (Serial Spanner and Pliers)

As of 05.04.2000, the following Spare Parts are available from the Warehouse:

Part no.066055 - Serial spanner for LVB2000 autotest. It has not to be linked to PC. (substituted with 077454);

Part no. 077454 - Serial spanner for LVB2000-PC White (substituted with 084566);

Part no. 084566 - Serial spanner forLB2000/EVOI -PC BIANCA (substituted with 095669 LB2000/EVOI, EVOII - PC).

Part no.066292 - Extractor pliers for integrated circuits.

For instructions on use, please refer to the relative Service Manual.

n1040078

WARNING: Remove the eeprom

Remove the eeprom with pliers part no. 066292 from the faulty module and insert it on the new module / display module, otherwise the machine will not function.

L'EPROM contains the software that characterizes the model, therefore each apparatus should have his own specific eprom(see the list spare parts).

n1040163
EEPROM excessively sensitive at low temperatures.

The electronic washing machines manufactured at the Comunanza Plant from 06.12.2000 to 15.12.2000, with registration numbers between 01206.0000 and 01215.0001, have been equipped with Electronic components (EEPROM) excessively sensitive to variations in room temperature.

If these machines are installed or used in environments with temperatures below 15° C damage to the EPROM in the electronic card may occur, in this instance the defect presents itself in the following :

The washing machine will not acknowledge the program.

The production preceding and following the above mentioned period is not generate the same problem.

In order to minimize eventual problems a caution notice has been attached on the machine top that encourages the operation of the washing machine when the temperature is higher than 15° C.

The EEPROM will need to be replaced in cases where the machine signals an F03, regarding only this particular production lot (being production from 06.12.2000 to 15.12.2000).

n1040191
Integrated probe on washing resistance.

From the registration no. 10312.0001 on Washing machines produced in the Comunanza Factory Plant, in relation to the present Notice, the probe's housing hole has been eliminated from the tub cover (application of the thermostat tap hole code 020181), the same has been performed directly on the resistance.

The new items interested by the modification are :

Code 081653 - Integrated probe on resistance (for ohmmici values, see enclosed figure);

Code 081837 - Resistance 1700W / 230 V with thermo fusible + adjustable thermostat bulb hole L= 169,5 mm;

Code 081654 - Resistance 1700W / 230 V with thermo fusible + adjustable thermostat bulb hole L = 212,5 mm.

The pre-modification items are not individually interchangeable with the modified ones and as much will continue to be normally handled.

For management requirements, tub with cavity probe/thermostat (until stock depletion) are used and according to necessities, the top cavity thermostat as above, can be used.

In case of tub modificaton(without cavity) on equipment pre-modificated: the new resistance with probe cavity, the new probe should be used and sometimes also the long probe thermostat.

The introduction date of modification especifically for each model, it is visible on the plate of EPROM's description SAT code, which is inserted on the model's documentation Xpartfinder

NT004800

T°(°C) ACQUA AGITATA	R(Ω)	
	R.min	R.max
25°C	19600	20400
30°C	15710	16470
60°C	4737	5149
80°C	2362	2622
90°C	1713	1919
100°C	1261	1427

n1040192

Module LB2000 without Eeprom.

From registration no. 10502.0001, on all the LB2000 Washing machine models, with exception to the Evolution range, the module without Eeprom code 080981 has been used.

This module is used in replacement of the following SAT codes:

Code 066054 - Standard Module without Eeprom (models up to 1200 revolutions);

Code 078593 - Module without Eeprom (models 1400 revolutions).

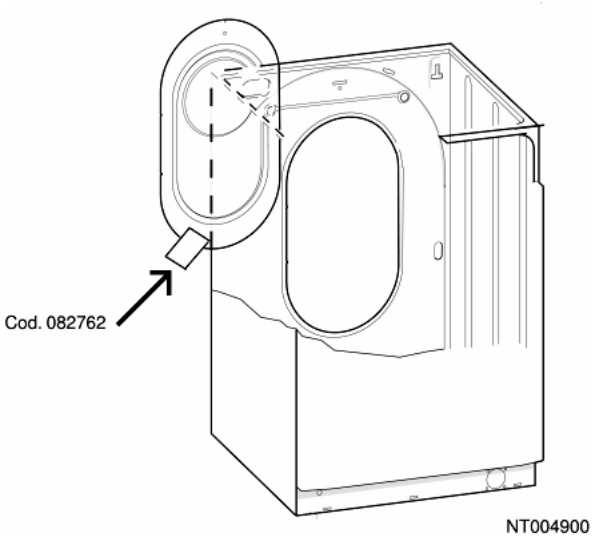
The new module, may be used in place of the above mentioned, that will be handled until stock depletion and that however may be used on pre-modified models.

n1040194

Rear bumper panel Snelle GLB 2000.

From the registration no. 10515.0001, on all the Washing Machines in the Ariston and Indesit Snella LB 2000 range, in order to avoid that certain conditions occur such as the unbalancing of the oscillating group the breaking of the belt due to accidental rubbing of the belt on the lower profile of the back opening of the cabinet, an self adhesive bumper panel is applied code SAT 082762.

Therefore, whatever technical intervention is performed on whatever Washing Machine model in the Snella LB 2000 range preceding the registration no. 10515.0001, it is obligatory to apply the bumper panel as noted in the enclosed figure.



n1040208
New hardware testing plug LB2000 Teverola.

From the registration number 10827.0001 on all washing machines LB2000 with program selector, produced in the factory in Teverola, a new hardware testing plug cod. 084817 is used.

The new plug is not interchangeable with the pre-modified one cod. 064899; so both have to be managed. In case of substitution of the piece of furniture on am equipment, preceding the registration number 10827.0001, it will be necessary to put on the suitable plug.

This modification of the registration number 10820.0001 is extended to all washing machines and wash-driers with a programs' selector produced in the factory in Comunanza.

n1040211
Serial cable to connect the hardware key with the PC.

To connect the hardware key: LB2000 with the personal computer,you must use

a serial cable, pin to pin 9 pin F/F, to garantee the availability, it was

decided to manage it as a spare part.

The SAT code of the cable (length 2m) is 084943.

n1040230
Modified shock absorber bracket - Comunanza plant

From the registration no. 11107.0001, the washing machines and Washer-Dryers produced in the Comunanza factory Plant, have used modified shock absorbers with the bracket that fixes onto the cabinet.

The codes for the new shock absorbers are:

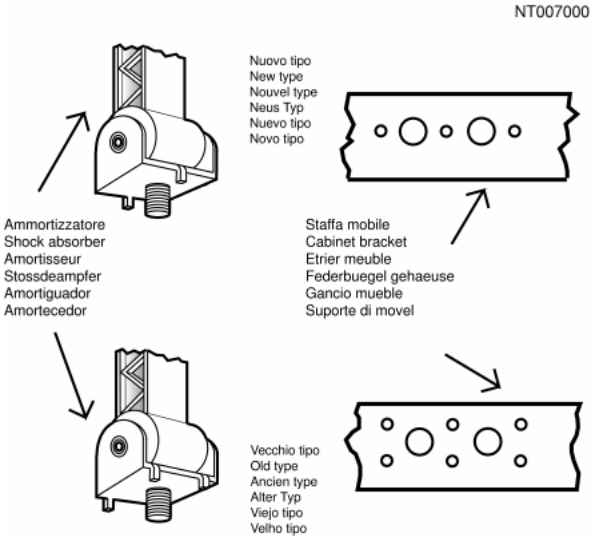
Code 086372 - Shock absorber 120 N (11105);

Code 086515 - Shock absorber 80 N (11105);

The modification also involved the cabinets in the fixing area that for the shock absorbers represent a different type of slotting (see enclosed figure).

To avoid the proliferation of the codes, the modified cabinets are handled with the same SAT code as the pre-modification, when replacing the cabinet you will need to check the registration number of the appliance.

In order to perform a proper task the intervention of the cabinet replacement it is recommended, that at least in the initial phase, to keep both the combination of shock absorbers in stock. The shock absorbers code 066184 and 064503 will continue to be normally handled.



n1040282
New drainage OKO system.

From serial number 21219.0001, the new "OKO" drainage system has been introduced on the washing machines produced in the Comunanza factory.

The last two numbers of the Industrial Code (located on the rating plate) of the models relevant to this note will be 30 (e.g. 80233560130 - see Appendix A)

N.B. The industrial code will not change on the models with induction motor (see following list).

MODEL	INDUSTRIAL CODE
ABS53XIT	80224800000
AB54XPT	80224870100
AB63XEX	80225100100
ABS63XEU	80225180100
WS44XIT	80233440100
WS431TXEX	80233470100
WS642TXEX	80233540100
W63XSP	80233890000
AB53XEU	80238820000
AB65XEU	80238830000
AL 64XSP	80239020100
WS43XIT	80244510000
WS53XIT	80244520000
WH66TXE	80253750100
ABS63XEO	80263900000

The new items are:

- EEPROM (the OKO system requires a new setting of load timing parameters). THE NEW EEPROMS REPLACE ALL THE ONES CODED PREVIOUSLY.

- BOWL (hopper tube hole shifted forwards);

- DETERGENT LOADING TUBE (see fig. 1);

- PRESSURE SWITCH (changed levels);

- OKO PUMP BOWL BLOWER + BALL (see fig. 2A, 2B and 2C);

- CONDUCTIVITY SENSOR (if provided, it is shorter than the premodification item);

- DRAIN PUMP (without detergent collecting tube connection);

- HOPPER (shifted in front of detergent loading tube connection). Fig. 3A post-modification. Fig. 3B premodification);

- AIR TRAP (different shape);

- PRESSURE SWITCH TUBE (different length);

- DRAIN TUBE STOP (specific);

In particular, the OKO system consists of a spherical plastic component inserted in the tube that connects the bowl to the drain pump (see fig.2 A).

At the beginning of each wash cycle the washing machine fills water for 10 seconds and activates the drain pump for 2 seconds. In this way, the water level in the bowl is different from that in the drain tube; this difference increases the thrust of the ball upwards, closing the bowl-pump connection tube hermetically (see fig. 2D).

This system has the double advantage of:

1) separating the wash water and the water in the drain hose, thus saving energy during the heating phase;

2) and ensuring optimal use of all the detergent.

With the introduction of this new component, the detergent collecting tube is no longer required and the pump has one hole only to convey water from the tank.

For the correct operation of the OKO system, it is important that the drain hose of the washing machine remains fixed to the back of the unit with a plastic clamp (to this end, the clamp withstands a 25 kg load; see reference 1 in fig. 4); otherwise, the drain hose must absolutely reach the height of the clamp. (minimum 60 cm.)

n1040286
Shock absorbers with 8.15 mm fixing hole.

From serial number 30127.0001, for appliances produced in the Comunanza factory, the shock absorbers will be fixed to the tank unit cradle using: the 8 mm diameter screw code 093750 in place of the 10 mm screw code 030446, and related locking nut code 030443 in place of code 030680.

The items affected by this modification are:

Code 093848 - Tank unit cradle 46 lt ;

Code 093878 - Tank unit cradle 40 lt.

Code 093884 - Shock absorber 80 N

Code 093885 - Shock absorber 120 N

The premodified shock absorbers code 086515 and 086372 will continue to be used, whereas cradles code 064518 and 066074 will be used until stocks run out, after which they will be replaced with the new items after widening the shock absorber fixing holes to a diameter of 11 mm.

n1040289
OKO tube on SNELLA range models with induction motor.

From serial number 30212.0001, a shorter OKO pump bowl tube SAT code 094312 is being used on the SNELLA range models with induction motor in order to improve the drain. The new tube replaces SAT code 092174 used on all other models produced in the Comunanza factory.

The appliances relevant to the modification are:

WS63XIT

WS43XIT

WS642TXEX

WS431TXEX

WS44XT

ABS63XEU

ABS63XEO

ABS53XIT.

The same modification starting from serial number 30414.0001 is suitable even for models SNELLA with collect motor and for built-in models.

n1040291
Interchangeability of bowls on LB2000 appliances Comunanza..

The Comunanza factory has modified the oscillating unit on all the 2000 range models produced in the Comunanza factory:

a) From serial number 21219.0001, the LB 2000 EVO bowl (see fig. 02) is gradually replacing the LB2000 version (see fig. 01), with the following differences:

1) Detergent loading tube hole shifted forwards;

2) Elimination of detergent recovery tube hole.

This modification has involved the introduction of the following items:

· Detergent loading tube (washing machine SAT code 092161and combined washer-dryer SAT code 092273);

· OKO pump bowl tube (models code 092174, Snella models with induction motor code 094312);

· Hopper (for rotary slide drawer SAT code 092176, for linear slide drawer code 092314);

b) From serial number 30312.0001, all washing machines produced in the Comunanza factory have been equipped with the new LB2000 EVO II range bowl (see fig. 03), in place of the LB2000 EVO version (see fig. 02), with the following difference:

1) Porthole with a diameter of 30 cm instead of 28 cm;

This modification has involved the introduction of the following items:

· Tapered porthole seal - rear diameter 30 cm front 28 cm;

Code 093345 - Standard seal;

Code 094091 - Washer-dryer seal;

Code 094093 - Snella seal

· Porthole seal rear fixing ring for 30 cm diameter SAT code 092155;

· Front counterweight (SAT code 092178).

Two LB2000 Evo bowl codings have been created in order to reduce the number of bowls managed by the After-sales Service (see fig. 04):

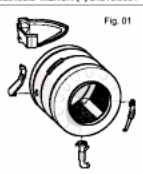
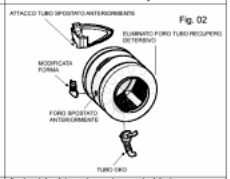
1) LB2000 Evo bowl kit coding (Table 01);

2) LB2000 EVO II range bowl kit coding (Table 02);

All bowl codes (with related interchangeability), are indicated in fig. 04 TAB. 03 attached to this Note.

Starting from serial number 30325.0001, for all the versions of Evizzate SNELLA LB2000 washing machines produced in the Comunanza factory the diameter of tapered porthole must seal return 28 cm. Starting from this serial number all the washing machines must be supported with door seal and fixing ring in old version.

Starting from serial number 30616.0001, for all the washing machines Evizzate LB2000 produced in Comunanza, the diameter of tapered porthole must seal return 28 cm. Starting from this serial number all the washing machines must be supported with door seal and fixing ring in old version.

		CUBA LB 2000	CUBA LB 2000 EVOLUCIONADA
EN PRODUCCION		Matricula MENOR (<) 21218.0001	Matricula Entre 21219.0001 y 30312.0001
		 Fig. 01	 Fig. 02
		MODIFICACIONES	Agujero tubo detergente puesto en parte delantera Eliminado tubo recuperación detergente Modificado tubo de cuba a bomba (Sistema OKO) Modificada forma tubo de jabonera a cuba Modificada salida de jabonera
SERVICIO TECNICO	CUBA OBSOLETO		
	064513 077330	KIT 092414	
	061827	KIT 092421	
	074217	KIT 092257	
	080661	KIT 092263	
	084591	KIT 092415	
	076778	KIT 092452	
	076850	KIT 092545	
	078876 074134	KIT 092311	

n1040061

Trouble-shooting.

Intervention procedure on 2000 washing machines

1. Reading the error code

The fault on the appliance is signalled via:

1. the continuous rotation of the selector knob

2. the action, for the first 4', of the electrovalve and the drain pump

3. the door becomes unlocked

4. the led flashes:

the number of flashes indicates the fault code; the code should be read as follows:

· each fast flash (2/3 flashes of the led very close together) represents one code value

· the fault code is evaluated by counting the number of flashes occurring at 3/4" intervals from one another

· stop counting when the washing machine waits the equivalent of approximately 8/9" between flashes

· the procedure is repeated by the appliance cyclically

E.g.: F03

(FIGURE NT 00)

2. Autotest

Should the washing machine not be signalling an error, you can check it using a serial key and using a particular autotest cycle, which is to be activated as follows:

1. bring the washing machine to reset position (coloured ball) for at least 5" and wait until the led flashes on reset mode

2. insert the hardware key into the serial outlet

3. position the switch situated on the key in TEST position

4. wait for the door to lock and for the selector to start turning

5. position the switch situated on the key in PC position

the appliance will carry out the following cycle:

· selector moves on up to position 0 (12h if the appliance has a delay, programme 1 if it has no delay)

· loads the wash electrovalve for approx. 10"

· loads the pre-wash electrovalve for approx. 10"

· loads the wash electrovalve and pre-wash electrovalve at the same time until the pressure switch is on full

· heats up to 30° and moves the motor in both directions

· selector moves on for 9 notches

· drains and spins

· the selector knob stops on one of the reset positions

· STOP

The test cycle can be repeated as many times as you wish following the same procedures

The test cycle can be interrupted by positioning the selector knob on one of the reset positions.

3. Intervention in the event of a Fault

In the event of a fault, the procedure to go by is as follows:

F01: Triac Short circuit

Overhaul CNE

Replace Card

F02: Blocked Motor, Short-circuited/Open Tachometry

Overhaul CNE

Overhaul Motor connector

Control CNE Continuity/Motor Connector

Control Motor Windings

Control Tachometry Windings

Replace Card

F03: Open/Short-Circuited NTC Found

Overhaul CNA

Control NTC Wiring

Control CNA/NTC Wiring Continuity

Replace NTC

Replace Card

F04: Overflow and Pressure Switch Empty found at the same time (Pressure Switch stuck on Empty)

Overhaul CN1

Overhaul Pressure Switch Contacts

Control CN1/Pressure Switch Continuity

Replace Pressure Switch

Replace Card

F05: Blocked Pump or Pressure Switch stuck on Empty Found

Overhaul CNF (pump connector)

Overhaul Pump Connector

Control Pump Filter

Control Pump Windings

Change Pump

Replace Card

F06: Selector Error (a part no. cannot be found)

Overhaul CND (selector connector)

Overhaul Selector Connector

Control Selector/CND Continuity

Control Selector Motor

Replace Selector

Replace Card

F07: Resistance Relay Stuck

Overhaul CN1

Overhaul CN1

Overhaul Resistance Connection

Replace Card

Overhaul Resistance Connection

Replace Card

F08: Resistance Missing or Pressure Switch stuck on Full Found

Overhaul CN1

Overhaul Resistance Connection

Overhaul Pressure Switch Connection

Replace Resistance

Replace Pressure Switch

Replace Card

F09: Machine Setup Error Found

Control Microprocessor Version

Ask for EEPROM Spare Part indicating Microprocessor version

F10: Pressure Switch Empty and Full or neither Empty nor Full Pressure Switch Found

Overhaul CN1

Overhaul Pressure Switch Wiring

Control CN1/Pressure Switch Continuity

Replace Pressure Switch

Replace Card

F11: Pump Feedback Missing

Overhaul CN1

Overhaul CNF

Overhaul Pump Connector

Overhaul Pressure Switch Connector

Control Pump Windings

Replace Pump

Replace Card

F12 SPECIFIC FOR LVB2000 INDESIT EVOLUTION / DIALOGIC.

F12: Lack of Display card-Main Card Communication

1. Check the effectiveness of contacts on CNC Connector Card

2. Overhaul 8-way connector on Display card

3. Check continuity of CNC-CN 8 way connector

4. Replace Main Card

5. Replace Display Card

F13: NTC wiring harness disconnected from the dryer system

1. Check the efficiency of the terminals on the CNA connector board

2. Check NTC wiring harness

3. Check the wiring harness continuity of the CNA / NTC connectors

4. Replace NTC

5. Replace terminal board

F14: Dryer connector open or not connected

1. Check the efficiency of the terminals on the CNI connector board

2. Overhaul CN1

3. Overhaul connector connection

4. Replace the board.Merloni Elettrodomestici

F15: Dryer connector is always active

1. Check the efficiency of the terminals on the CNI connector board

2. Overhaul connector connection

3. Overhaul the pressure sensor connection

4. Replace the connector

5. Replace pressure sensor

6. Replace the board

F16: Non-functioning basket block

1. Go over connector card CNC

2. Go over connector basket block

3. Control Continuity of cabling CNC / basket block and basket block supply

4. Replace basket block

5. Replace card

N.B.From Fault F01 to fault F11

These are shown by LEDs in stand by/on in LVB2000 machines Ariston/Indesit.

From fault F01 to fault F12

These are shown in a display located on the instrument panel of LVB2000 ma-chines

Evolution Indesit.

From fault F01 to fault F15

Are those that are indicated according to the version via LED stand by/on or

display positioned on the Wash Dry machine Ariston/Indesit panel.

4. Replacing the card

Should you have to replace the card:

· retrieve the EEPROM from the old card

· reassemble the EEPROM onto the new replacement card (without EEPROM)

In the event, and only in this case:

· an F02 has been detected

· the above-mentioned checks have been carried out and no problems have been detected on the wiring or to the motor

· the card fitted onto the washing machine is a 12 or 20 version (the version is indicated by a label on the module-containing box with SW20 or SW12)

you should:

· fit on a new card (version 32 or above)

· fit on an updated EEPROM to request from the assistance service centre, stating the code (e.g. 80xxxxx0000 or 46xxxxx0000), the serial number and the washing machine model.

n1040066
LB2000 Hardware (Serial Spanner and Pliers)

As of 05.04.2000, the following Spare Parts are available from the Warehouse:

Part no.066055 - Serial spanner for LVB2000 autotest. It has not to be linked to PC. (substituted with 077454);

Part no. 077454 - Serial spanner for LVB2000-PC White (substituted with 084566);

Part no. 084566 - Serial spanner forLB2000/EVOI -PC BIANCA (substituted with 095669 LB2000/EVOI, EVOII - PC).

Part no.066292 - Extractor pliers for integrated circuits.

For instructions on use, please refer to the relative Service Manual.

n1040078
WARNING: Remove the eeprom

Remove the eeprom with pliers part no. 066292 from the faulty module and insert it on the new module / display module, otherwise the machine will not function.

L'EPROM contains the software that characterizes the model, therefore each apparatus should have his own specific eprom(see the list spare parts).

n1040163
EEPROM excessively sensitive at low temperatures.

The electronic washing machines manufactured at the Comunanza Plant from 06.12.2000 to 15.12.2000, with registration numbers between 01206.0000 and 01215.0001, have been equipped with Electronic components (EEPROM) excessively sensitive to variations in room temperature.

If these machines are installed or used in environments with temperatures below 15° C damage to the EPROM in the electronic card may occur, in this instance the defect presents itself in the following :

The washing machine will not acknowledge the program.

The production preceding and following the above mentioned period is not generate the same problem.

In order to minimize eventual problems a caution notice has been attached on the machine top that encourages the operation of the washing machine when the temperature is higher than 15° C.

The EEPROM will need to be replaced in cases where the machine signals an F03, regarding only this particular production lot (being production from 06.12.2000 to 15.12.2000).

n1040191

Integrated probe on washing resistance.

From the registration no. 10312.0001 on Washing machines produced in the Comunanza Factory Plant, in relation to the present Notice, the probe's housing hole has been eliminated from the tub cover (application of the thermostat tap hole code 020181), the same has been performed directly on the resistance.

The new items interested by the modification are :

Code 081653 - Integrated probe on resistance (for ohmmici values, see enclosed figure);

Code 081837 - Resistance 1700W / 230 V with thermo fusible + adjustable thermostat bulb hole L= 169,5 mm;

Code 081654 - Resistance 1700W / 230 V with thermo fusible + adjustable thermostat bulb hole L = 212,5 mm.

The pre-modification items are not individually interchangeable with the modified ones and as much will continue to be normally handled.

For management requirements, tub with cavity probe/thermostat (until stock depletion) are used and according to necessities, the top cavity thermostat as above, can be used.

In case of tub modificaton(without cavity) on equipment pre-modificated: the new resistance with probe cavity, the new probe should be used and sometimes also the long probe thermostat.

The introduction date of modification especifically for each model, it is visible on the plate of EPROM's description SAT code, which is inserted on the model's documentation Xpartfinder

NT004800

T°(°C) ACQUA AGITATA	R(Ω)	
	R.min	R.max
25°C	19600	20400
30°C	15710	16470
60°C	4737	5149
80°C	2362	2622
90°C	1713	1919
100°C	1261	1427

n1040192

Module LB2000 without Eeprom.

From registration no. 10502.0001, on all the LB2000 Washing machine models, with exception to the Evolution range, the module without Eeprom code 080981 has been used.

This module is used in replacement of the following SAT codes:

Code 066054 - Standard Module without Eeprom (models up to 1200 revolutions);

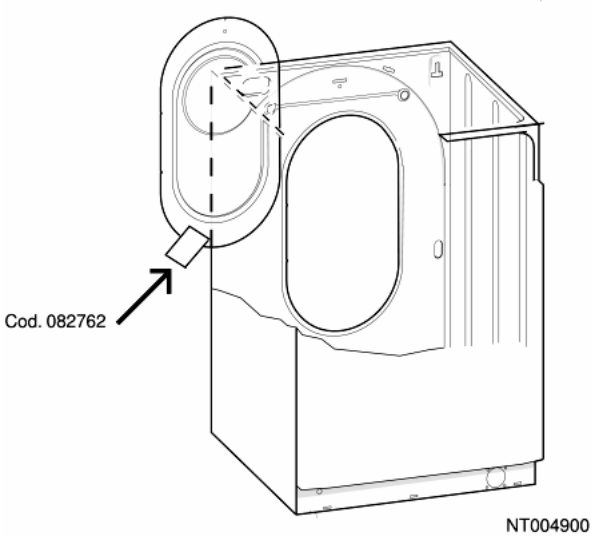
Code 078593 - Module without Eeprom (models 1400 revolutions).

The new module, may be used in place of the above mentioned, that will be handled until stock depletion and that however may be used on pre-modified models.

n1040194
Rear bumper panel Snelle GLB 2000.

From the registration no. 10515.0001, on all the Washing Machines in the Ariston and Indesit Snella LB 2000 range, in order to avoid that certain conditions occur such as the unbalancing of the oscillating group the breaking of the belt due to accidental rubbing of the belt on the lower profile of the back opening of the cabinet, an self adhesive bumper panel is applied code SAT 082762.

Therefore, whatever technical intervention is performed on whatever Washing Machine model in the Snella LB 2000 range preceding the registration no. 10515.0001, it is obligatory to apply the bumper panel as noted in the enclosed figure.



n1040208
New hardware testing plug LB2000 Teverola.

From the registration number 10827.0001 on all washing machines LB2000 with program selector, produced in the factory in Teverola, a new hardware testing plug cod. 084817 is used.

The new plug is not interchangeable with the pre-modified one cod. 064899; so both have to be managed. In case of substitution of the piece of furniture on am equipment, preceding the registration number 10827.0001, it will be necessary to put on the suitable plug.

This modification of the registration number 10820.0001 is extended to all washing machines and wash-driers with a programs' selector produced

in the factory in Comunanza.

n1040211
Serial cable to connect the hardware key with the PC.

To connect the hardware key: LB2000 with the personal computer,you must use

a serial cable, pin to pin 9 pin F/F, to garantee the availability, it was

decided to manage it as a spare part.

The SAT code of the cable (length 2m) is 084943.

n1040230
Modified shock absorber bracket - Comunanza plant

From the registration no. 11107.0001, the washing machines and Washer-Dryers produced in the Comunanza factory Plant, have used modified shock absorbers with the bracket that fixes onto the cabinet.

The codes for the new shock absorbers are:

Code 086372 - Shock absorber 120 N (11105);

Code 086515 - Shock absorber 80 N (11105);

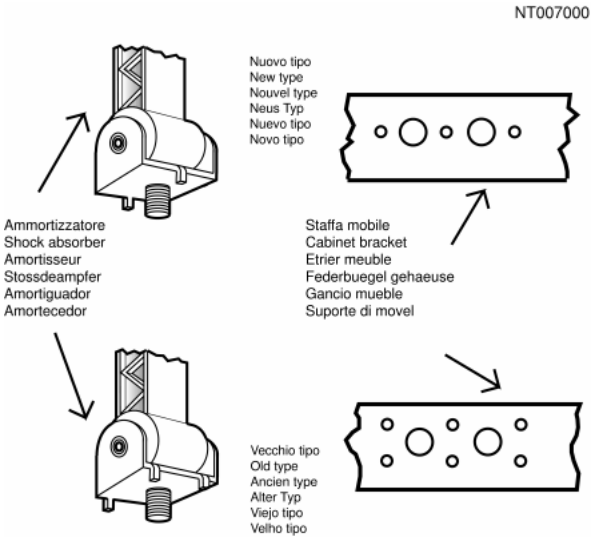
The modification also involved the cabinets in the fixing area that for the shock absorbers represent a different type of slotting (see enclosed figure).

To avoid the proliferation of the codes, the modified cabinets are handled with the same SAT code as the pre-modification, when replacing the cabinet you will need to check the registration number of the appliance.

In order to perform a proper task the intervention of the cabinet replacement it is recommended, that at least in the initial phase, to keep both the combination of shock absorbers in stock. The shock absorbers code 066184 and 064503 will continue to be normally handled.

n1040242
Power card with welded eeprom.

From serial number 20304.0001, IDC power card with welded eeprom is used to ensure the perfect connection of all parts, in the Comunanza, Teverola and Brembate factories.



To replace the module with welded eeprom, it will be necessary to use the eeprom indicated in the SAT document of the model concerned.

To replace the module on a unit with welded eeprom (Cod. 084838, 089405, 089404, 089416, 089074, and 090505), both the SAT module and the eeprom are required, because the latter cannot be reused.

n1040246
Button switch NO

From serial number 20302.0001, the button switch NO code 088394 is used instead of the premodified switch NO+NO code 075445 (see attached illustration) and the button switch SE-NO code 063971 is used instead of the premodified switch SE-NO code 058465 (see attached illustration) on washing machine AL68XPT .

Both switches are regularly managed, therefore in case of repair the serial number of the unit must be taken into consideration.

This modification also regards the wiring code 088448 which as with all the LB 2000 models, is managed only by request, i.e. without stock, in order to always manage the interchangeable one with the last modification.

Due to the simplicity of the modification, the images of the wiring diagrams used remain the same as the IDC wiring diagrams already available on the WEB.

The modification will be also extended to other models which from time to time will be listed below.

COMUNANZA (Codes 063971 e 08394)

A1124UK (23572) Matr. 20318.0001;

A1234UK (23573) Matr. 20318.0001;

A1324UK (28068) Matr. 20318.0001;

AA1000BFR (25700) Matr. 20318.0001;

AAX106LFR (25698) Matr. 20318.0001;

AAX116LFR (25591) Matr. 20318.0001;

AAX126LFR (25699) Matr. 20318.0001;

AB104XTK (22505) Matr. 20318.0001;

AB108XEO (26389) Matr. 20318.0001;

AB108XIT (22443) Matr. 20318.0001;

AB63XGR (24894) Matr. 20318.0001;

AB65XEO (24492) Matr. 20318.0001;

AB67XIT (27896) Matr. 20318.0001;

AB84XTK (22504) Matr. 20318.0001;

AB87XIT (27897) Matr. 20318.0001;

AB88XEX (23681) Matr. 20318.0001;

AB88XIT (22444) Matr. 20318.0001;

ABS66XIT (28070) Matr. 20311.0001;

AL107FR (23684) Matr. 20318.0001;

AL108XBE (23648) Matr. 20318.0001;

AL108XSTK (22698) Matr. 20318.0001;

AL108XTK (22506) Matr. 20318.0001;

AL109SLFR (22495) Matr. 20318.0001;

AL109XAUS (26024) Matr.20318.0001;

AL109XEU (22514) Matr. 20318.0001;

AL109XIT (22360) Matr. 20318.0001;

AL109XSK (25855) Matr. 20318.0001;

AL128XBE (23656) Matr. 20318.0001;

AL129SLBE (23990) Matr. 20318.0001;

AL129XAUS (23864) Matr. 20318.0001;

AL129XEU (22515) Matr. 20318.0001;

AL129XEU (22515) Matr. 20318.0001;

AL129XSK (25856) Matr. 20318.0001;

AL129XTK (22507) Matr. 20318.0001;

AL12SUK (24363) Matr. 20318.0001;

AL12UK (23576) Matr. 20318.0001;

AL67XHCGR (23885) Matr. 20318.0001;

AL68X (22363) Matr. 20318.0001;

AL68X (22363) Matr. 20318.0001;

AL68XEX (23863) Matr. 20318.0001;

AL68XSPT (22977) Matr. 20318.0001;

AL68XSPT (22977) Matr. 20318.0001;

AL78XPT (27627) Matr. 20318.0001;

AL78XSPT (27628) Matr. 20318.0001;

AL88XEU (22512) Matr. 20318.0001;

AL88XPT (22482) Matr 20318.0001;

AL88XSPT (22483) Matr. 20318.0001;

AL89X (22362) Matr. 20318.0001;

AL89XSIT (22445) Matr. 20318.0001;

AL98XPT (27629) Matr. 20318.0001;

AL98XSPT (27630) Matr. 20318.0001;

ALS104XFR (22501) Matr. 20311.0001;

ALS109XEU (22520) Matr. 20311.0001;

ALS109XIT (22470) Matr. 20311.0001;

ALS109XIT (22470) Matr. 20311.0001;

ALS129XEU (22521) Matr. 20311.0001;

ALS68XIT (22473) Matr. 20311.0001;

ALS869XIT (24887) Matr. 20311.0001;

ALS88XEO (26391) Matr. 20311.0001;

ALS88XEU (22519) Matr. 20311.0001;

ALS89XIT (22472) Matr. 20311.0001;

ALS89XIT (22472) Matr. 20311.0001;

ALS89XSIT (22471) Matr. 20311.0001;

L687XIT (24890) Matr. 20318.0001;

L687XIT (24890) Matr. 20318.0001;

LE1069XIT (27895) Matr. 20318.0001;

LE869XIT (24884) Matr. 20318.0001;

LES669XIT (24886) Matr. 20311.0001;

W104TKSTK (24746) Matr. 20318.0001;

W104TXTK (23411) Matr. 20318.0001;

W105TXEX (23403) Matr. 20318.0001;

W105XDE (24835) Matr. 20318.0001;

W106XDE (28089) Matr. 20318.0001;

W108XIT (23402) Matr. 20318.0001;

W108XSP (23408) Matr. 20318.0001;

W123SUK (23413) Matr. 20318.0001;

W123UK (23369) Matr. 20318.0001;

W123XNL (23416) Matr. 20318.0001;

W124XDE (24837) Matr. 20318.0001;

W124XNL (23418) Matr. 20318.0001;

W125TXCH (28194) Matr. 20318.0001;

W125TXEX (23378) Matr. 20318.0001;

W125XDE (24838) Matr. 20318.0001;

W125XFR (24435) Matr. 20318.0001;

W125XSDE (24839) Matr. 20318.0001;

W126XDE (24840) Matr. 20318.0001;

W128XFR (27701) Matr. 20318.0001;

W128XSP (24428) Matr. 20318.0001;

W682XSIT (24813) Matr. 20318.0001;

W683XGIT (24812) Matr. 20318.0001;

W68XIT (24408) Matr. 20318.0001;

W68XSIT (24409) Matr. 20318.0001;

W842XSIT (24818) Matr. 20318.0001;

W843XGIT (24820) Matr. 20318.0001;

W84TXEX (23401) Matr. 20318.0001;

W84TXTK (23410) Matr. 20318.0001;

W84XSP (23409) Matr. 20318.0001;

W84XSP (24469) Matr. 20318.0001;

W857XSPT (26661) Matr. 20318.0001.

W88XIT (23395) Matr. 20318.0001;

WA10XIT (26883) Matr. 20318.0001;

WA10XIT (26883) Matr. 20318.0001;

WA6XIT (26881) Matr. 20318.0001;

WA8XIT (26882) Matr. 20318.0001;

WA8XSIT (26919) Matr. 20318.0001;

WAS6XIT (27052) Matr. 20311.0001;

WAS8XIT (27053) Matr. 20311.0001;

WS105TXEX (23356) Matr. 20311.0001;

WS682XSIT (24826) Matr. 20311.0001;

WS683XGIT (24822) Matr. 20311.0001;

WS68XIT (24594) Matr. 20311.0001;

WS84TXEX (23355) Matr. 20311.0001;

WS88XIT (23349) Matr. 20311.0001;

TEVEROLA (Code 063971)

AB40AG (26350) Matr. 20304.0001;

AB40EX (24733) Matr. 20304.0001;

AB40IT (22468) Matr. 20304.0001;

AB43AG (24364) Matr. 20304.0001;

AB43EX50-60HZ (23907) Matr. 20304.0001;

AB43IT (22467) Matr. 20304.0001;

AB43PT (22489) Matr. 20304.0001;

AB43SP (23899) Matr. 20304.0001;

AB52PT (27554) Matr. 20304.0001;

AB53AG (27088) Matr. 20304.0001;

AB53EO (23780) Matr. 20304.0001;

AB53EX50-60HZ (23908) Matr. 20304.0001;

AB53IT (22460) Matr. 20304.0001;

AB56FR (22740) Matr. 20304.0001;

AB60IT (26971) Matr. 20304.0001;

AB63IT (22455) Matr. 20304.0001;

AB64AG (24365) Matr. 20304.0001;

AB64AG (24365) Matr. 20304.0001;

AB64PT (22486) Matr. 20304.0001;

AB66FR (22490) Matr. 20304.0001;

BE563IT (24882) Matr. 20304.0001;

W41IT (27758) Matr. 20304.0001;

W432SIT (24806) Matr. 20304.0001;

W432SIT (24806) Matr. 20304.0001;

W435PT (23319) Matr. 20304.0001;

W43FR (23312) Matr. 20304.0001;

W43IT (23299) Matr. 20304.0001;

W43IT (23299) Matr. 20304.0001;

W43SP (27506) Matr. 20304.0001;

W43SP (27506) Matr. 20304.0001;

W43TAG (23323) Matr. 20304.0001;

W43TAG (23323) Matr. 20304.0001;

W43TEX (23306) Matr. 20304.0001;

W43TEX (23306) Matr. 20304.0001;

W44IT (23294) Matr. 20304.0001;

W44XIT (25547) Matr. 20304.0001;

W4521E (25377) Matr. 20304.0001;

W4521E (25377) Matr. 20304.0001;

W535PT (23385) Matr. 20304.0001;

W53FR (25471) Matr. 20304.0001;

W53IT (23300) Matr. 20304.0001;

W53SP (23338) Matr. 20304.0001;

W53TEX (24767) Matr. 20304.0001;

W53TEX (24767) Matr. 20304.0001;

W543GIT (25688) Matr. 20304.0001;

W630FR (24613) Matr. 20304.0001;

W634PT (24627) Matr. 20304.0001;

W63FR (23341) Matr. 20304.0001;

W63IT (23295) Matr. 20304.0001;

W63SP (23316) Matr. 20304.0001;

W63TEX (23305) Matr. 20304.0001;

W63XIT (25544) Matr. 20304.0001;

W642TXEX (25548) Matr. 20304.0001;

W64IT (24413) Matr. 20304.0001;

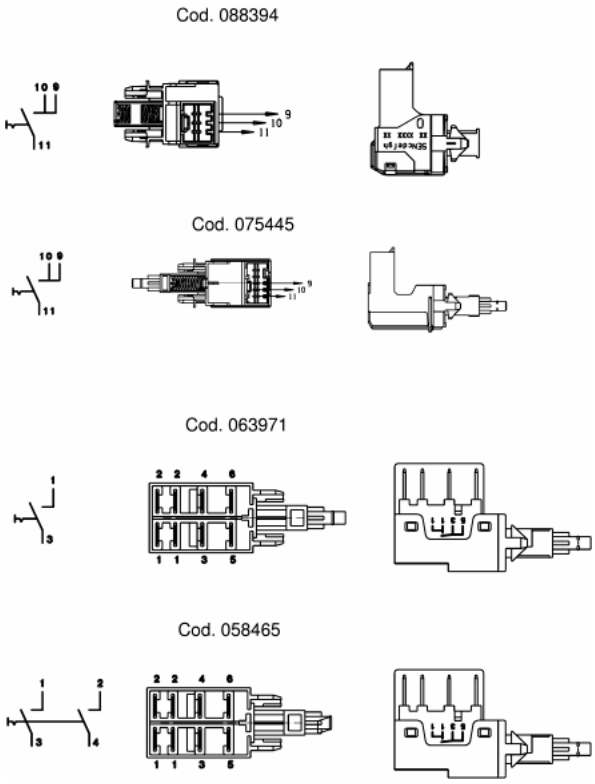
W6521E (25378) Matr. 20304.0001;

WA8IT (26879) Matr. 20304.0001;

WP42IT (27759) Matr. 20304.0001;

WP42IT (27759) Matr. 20304.0001;

WP62EX (27760) Matr. 20304.0001;



n1040276

Power supply cable + integrally moulded filter.

All appliances produced in the Comunanza (from serial no. 21008.0001), Teverola (from serial no. 21111.0001) and Brembate (from serial no. 21119.0001) factories have been equipped with power supply cables with integrally moulded filter (see fig.1 - 1A and 1B) and new units having a specific opening at the back for fixing the new cables (see fig. 1 - 1C).

The new units, together with the new cables, can be used in place of the premodification ones, by connecting the wiring to the cable, as shown in figure 1 - 1D.

The codes of the new units and of those replaced (ESI - table n1040276fig02), which will be managed until stocks run out, are given below.

The new power supply cables are:

Code 091632 - Power supply cable 3x1 schuko 1.5m+capacitance filter;

Code 091633 - Power supply cable 3x1 schuko 1.5m+inductive filter;

Code 091634 - Power supply cable uk 3x1 l= 1950mm + inductive filter;

Code 091635 - Power supply cable uk 3x1 l=1950mm+capacitance filter;

Code 091636 - Power supply cable l=2.55m austral+inductive filter;

Code 091641 - Power supply cable l=2550mm ag +capacitance filter;

Code 091642 - Power supply cable 1.85mt usa no inductive filter;

Code 091643 - Power supply cable 3x1 (ch) 1.5m+inductive filter;

Code 091645 - Power supply cable 3450mm south af.+capacitance filter;

Code 091690 - Power supply cable shuko l2.55m korea+inductive filter;

Code 091689 - Power Supply cable l=2550mm ag +inductive filter.

IMPORTANT: the fixing / continuity screw is a specific self-scraping screw (code 092348) that ensures earth continuity between the filter and the unit. The same screw must be refitted in order to guarantee machine conformity.

The premodification wirings, are also managed for modified products by making the connection to the terminal block of the new cable as shown in fig. 1 - 1D.

The wiring diagrams given in the Documentation remain unchanged.

DESCRIZIONE MOBILI	STABILIMENTO	CODICE SAT MOBILE V.T.	CODICE SAT MOBILE N.T.
MOBILE B.27 'AB40-STAB.46'	TEVEROLA	65974	**90584**
MOBILE BIANCO 'W113(UK)'	TEVEROLA	75417	**90583**
MOBILE BIANCO 'LVB2000'	COMUNANZA	64500	**90582**
MOBILE BIANCO 'ALS-ABS LVB2000'	COMUNANZA	74146	**90581**
MOBILE SILVER 'LVB2000'	COMUNANZA	74184	**90580**
MOBILE SILVER ALS'LVB2000	COMUNANZA	74629	**90579**
MOBILE BIANCO W133(UK)	COMUNANZA	75315	**90578**
MOBILE BIANCO AL148FR'	COMUNANZA	76629	**90577**
MOBILE BIANCO WS63XIT)'	COMUNANZA	76744	**90576**
MOBILE SILVER FIAT 647'W68XSIT'	COMUNANZA	77022	**90575**
MOBILE BIANCO DIALOGIC-2001	COMUNANZA	84310	**90574**
MOBILE BIANCO LBE8X	COMUNANZA	84808	**90573**
MOBILE BIANCO27 INDESIT	BREMBATE	84713	**91748**
MOBILE ARISTON BIANCO27 6KG	BREMBATE	89483	**91742**
MOBILE BIANCO27 6KG '535'	BREMBATE	83287	**91749**
MOBILE BIANCO27 5KG	BREMBATE	81696	**91752**
MOBILE ARISTON BIANCO27 SLIM	BREMBATE	89649	**91754**
MOBILE INDESIT BIANCO27	BREMBATE	89963	**91756**
MOBILE BIANCO27 6KG INDESIT	BREMBATE	91036	**91758**

n1040282

New drainage OKO system.

From serial number 21219.0001, the new "OKO" drainage system has been introduced on the washing machines produced in the Comunanza factory.

The last two numbers of the Industrial Code (located on the rating plate) of the models relevant to this note will be 30 (e.g. 80233560130 - see Appendix A)

N.B. The industrial code will not change on the models with induction motor (see following list).

MODEL INDUSTRIAL CODE

ABS53XIT 80224800000

AB54XPT 80224870100

AB63XEX 80225100100

ABS63XEU 80225180100

WS44XIT 80233440100

WS431TXEX 80233470100

WS642TXEX 80233540100

W63XSP 80233890000

AB53XEU 80238820000

AB65XEU 80238830000

AL 64XSP 80239020100

WS43XIT 80244510000

WS53XIT 80244520000

WH66TXE 80253750100

ABS63XEO 80263900000

The new items are:

- EEPROM (the OKO system requires a new setting of load timing parameters). THE NEW EEPROMS REPLACE ALL THE ONES CODED PREVIOUSLY.

- BOWL (hopper tube hole shifted forwards);

- DETERGENT LOADING TUBE (see fig. 1);

- PRESSURE SWITCH (changed levels);

- OKO PUMP BOWL BLOWER + BALL (see fig. 2A, 2B and 2C);

- CONDUCTIVITY SENSOR (if provided, it is shorter than the premodification item);

- DRAIN PUMP (without detergent collecting tube connection);

- HOPPER (shifted in front of detergent loading tube connection). Fig. 3A post-modification. Fig. 3B premodification);

- AIR TRAP (different shape);

- PRESSURE SWITCH TUBE (different length);

- DRAIN TUBE STOP (specific);

In particular, the OKO system consists of a spherical plastic component inserted in the tube that connects the bowl to the drain pump (see fig.2 A).

At the beginning of each wash cycle the washing machine fills water for 10 seconds and activates the drain pump for 2 seconds. In this way, the water level in the bowl is different from that in the drain tube; this difference increases the thrust of the ball upwards, closing the bowl-pump connection tube hermetically (see fig. 2D).

This system has the double advantage of:

1) separating the wash water and the water in the drain hose, thus saving energy during the heating phase;

2) and ensuring optimal use of all the detergent.

With the introduction of this new component, the detergent collecting tube is no longer required and the pump has one hole only to convey water from the tank.

For the correct operation of the OKO system, it is important that the drain hose of the washing machine remains fixed to the back of the unit with a plastic clamp (to this end, the clamp withstands a 25 kg load; see reference 1 in fig. 4); otherwise, the drain hose must absolutely reach the height of the clamp. (minimum 60 cm.)

n1040286

Shock absorbers with 8.15 mm fixing hole.

From serial number 30127.0001, for appliances produced in the Comunanza factory, the shock absorbers will be fixed to the tank unit cradle using: the 8 mm diameter screw code 093750 in place of the 10 mm screw code 030446, and related locking nut code 030443 in place of code 030680.

The items affected by this modification are:

Code 093848 - Tank unit cradle 46 lt ;

Code 093878 - Tank unit cradle 40 lt.

Code 093884 - Shock absorber 80 N

Code 093885 - Shock absorber 120 N

The premodified shock absorbers code 086515 and 086372 will continue to be used, whereas cradles code 064518 and 066074 will be used until stocks run out, after which they will be replaced with the new items after widening the shock absorber fixing holes to a diameter of 11 mm.

n1040289

OKO tube on SNELLA range models with induction motor.

From serial number 30212.0001, a shorter OKO pump bowl tube SAT code 094312 is being used on the SNELLA range models with induction motor in order to improve the drain. The new tube replaces SAT code 092174 used on all other models produced in the Comunanza factory.

The appliances relevant to the modification are:

WS63XIT

WS43XIT

WS642TXEX

WS431TXEX

WS44XT

ABS63XEU

ABS63XEO

ABS53XIT.

The same modification starting from serial number 30414.0001 is suitable even for models SNELLA with collect motor and for built-in models.

n1040291
Interchangeability of bowls on LB2000 appliances Comunanza..

The Comunanza factory has modified the oscillating unit on all the 2000 range models produced in the Comunanza factory:

a) From serial number 21219.0001, the LB 2000 EVO bowl (see fig. 02) is gradually replacing the LB2000 version (see fig. 01), with the following differences:

1) Detergent loading tube hole shifted forwards;

2) Elimination of detergent recovery tube hole.

This modification has involved the introduction of the following items:

· Detergent loading tube (washing machine SAT code 092161and combined washer-dryer SAT code 092273);

· OKO pump bowl tube (models code 092174, Snella models with induction motor code 094312);

· Hopper (for rotary slide drawer SAT code 092176, for linear slide drawer code 092314);

b) From serial number 30312.0001, all washing machines produced in the Comunanza factory have been equipped with the new LB2000 EVO II range bowl (see fig. 03), in place of the LB2000 EVO version (see fig. 02), with the following difference:

1) Porthole with a diameter of 30 cm instead of 28 cm;

This modification has involved the introduction of the following items:

· Tapered porthole seal - rear diameter 30 cm front 28 cm;

Code 093345 - Standard seal;

Code 094091 - Washer-dryer seal;

Code 094093 - Snella seal

· Porthole seal rear fixing ring for 30 cm diameter SAT code 092155;

· Front counterweight (SAT code 092178).

Two LB2000 Evo bowl codings have been created in order to reduce the number of bowls managed by the After-sales Service (see fig. 04):

1) LB2000 Evo bowl kit coding (Table 01);

2) LB2000 EVO II range bowl kit coding (Table 02);

All bowl codes (with related interchangeability), are indicated in fig. 04 TAB. 03 attached to this Note.

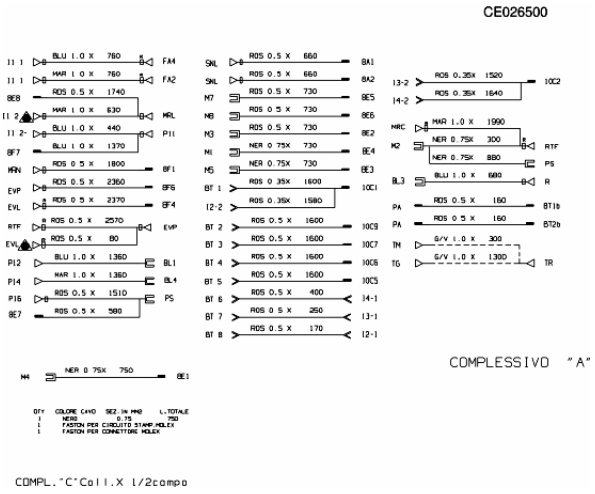
Starting from serial number 30325.0001, for all the versions of Evizzate SNELLA LB2000 washing machines produced in the Comunanza factory the diameter of tapered porthole must seal return 28 cm. Starting from this serial number all the washing machines must be supported with door seal and fixing ring in old version.

Starting from serial number 30616.0001, for all the washing machines Evizzate LB2000 produced in Comunanza, the diameter of tapered porthole must seal return 28 cm. Starting from this serial number all the washing machines must be supported with door seal and fixing ring in old version.

		Modificada forma tubo de jabonera a cuba **Modificada salida de jabonera**
SERVICIO TECNICO	CUBA OBSOLETO	
	064513 077330	**KIT 092414**
	061827	**KIT 092421**
	074217	**KIT 092257**
	080661	**KIT 092263**
	084591	**KIT 092415**
	076778	**KIT 092452**
	076850	**KIT 092545**
	078876 074134	**KIT 092311**

Electric schemes and links

Cod. ce026500



Legend

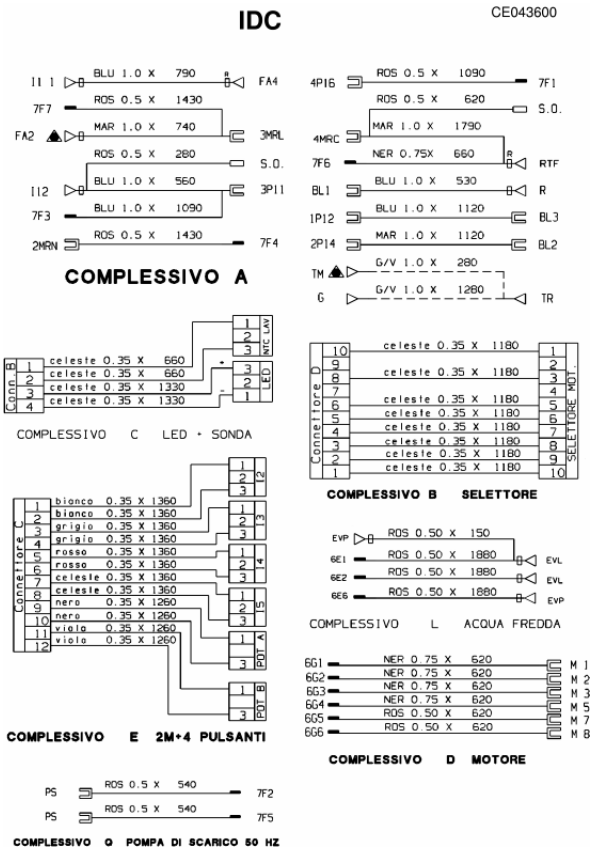
Legend: ce026500

AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
EVP	Pre Wash electrovalve	SL	Line LED
FA	Antijamming filter	SO	Door LED
FD	Delicate drying cycle thermostat	SR	Heating LED
FE	Strong drying cycle thermostat	ST	Temperature selector
FRT	Thermofusible Heating Element	SV	Speed Selector for Spin
I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
IF	Switch - Spin Reduction	TG	Main earth
IP	Door switch	TH	Thermostat
IR	Line switch	THF	Operating thermostat
IS	Water-stop	THR	Adjustable thermostat
I1..2..3..	Switches/switching devices	TH1	1st temperature thermostat
L	Line or Lamp	TH2	2nd temperature thermostat
LB	Low Level	TH3	3rd temperature thermostat
LN	Normal Level	TM	Motor earth
LS	Pilot lamp	TMB	Main cabinet earth
M	Earth-symbol	TMP	Motor thermal protector
MC	Spin cycle motor	TMS	Thermostop
MI	MOTOR WITH PULLEY	TP	Thermal protector
ML	Wash cycle motor	TPS	Drain pump earth
MO	Terminal Board	TR	Heating element earth
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. ce043600



Legend

Legend: ce043600

AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
EVP	Pre Wash electrovalve	SL	Line LED
FA	Antijamming filter	SO	Door LED
FD	Delicate drying cycle thermostat	SR	Heating LED
FE	Strong drying cycle thermostat	ST	Temperature selector
FRT	Thermofusible Heating Element	SV	Speed Selector for Spin
I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
IF	Switch - Spin Reduction	TG	Main earth
IP	Door switch	TH	Thermostat
IR	Line switch	THF	Operating thermostat
IS	Water-stop	THR	Adjustable thermostat
I1..2..3..	Switches/switching devices	TH1	1st temperature thermostat
L	Line or Lamp	TH2	2nd temperature thermostat
LB	Low Level	TH3	3rd temperature thermostat
LN	Normal Level	TM	Motor earth
LS	Pilot lamp	TMB	Main cabinet earth
M	Earth-symbol	TMP	Motor thermal protector
MC	Spin cycle motor	TMS	Thermostop
MI	MOTOR WITH PULLEY	TP	Thermal protector
ML	Wash cycle motor	TPS	Drain pump earth
MO	Terminal Board	TR	Heating element earth
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. lg027400

```
PROJECT: 28233560100 (WS105TXEX)  del 03-12-2001

MACHINE CONFIGURATION:
  Typology                          LB [ ARISTON ]
  Aquastop                          OFF
  Number of buttons                 4
  Number of knobs                   2
  Transmission report               15.8
  Maximum speed                     950 RPM
  Distribution speed                93
  HTC wash fault limit              215
  Middle-range speed                1600
  EEprom version                    1
  Hot water electrovalve            OFF
  Detergent recovery                ON
  Conductivity detector             OFF
  Electronic display                OFF
  1st level decilitres              49
  Anti-shock temperature            164
  Wash cycles adjustment            0
  End rinse alkalinity              0
  End rinse extra alkalinity        0
  Unbalance level 1                 450 g
  Unbalance level 2                 1100 g
  Wool unbalance level              1800 g
  Rebalancing attempts 1            56
  Rebalancing attempts 2            15
  Wool rebalancing attempts         3
  Max RPM unbalance level 1         600
  Max RPM unbalance level 2         400
  Rapid   (time / 3)                23
  Delicate (duty-cycle)             0
  EV immediate deactivation         -1.00
  EV delayed deactivation           0.00
  Timeout reactivation              900
  Timeout deactivation              30


BUTTONS TABLE
  BUTTON 1 (18 -> Stain removal         ) (OFF)
  BUTTON 2 (15 -> Quick wash            ) (OFF)
  BUTTON 3 ( 6 -> Extra Economy         ) (OFF)
  BUTTON 4 (24 -> IronNin               ) (OFF)


KNOBS TABLE
  KNOB  1 ( 2 -> Temp regulation      ) ( ON)
    [  0]  [ 98]  [130]  [142]  [155]  [172]  [188]  [203]
  KNOB  2 ( 1 -> Spin regulation      ) ( ON)
    [  0]  [ 40]  [ 50]  [ 60]  [ 70]  [ 80]  [ 90]  [ 95]


AGITATION TABLE

  AGITATION 1
    Left  (OFF  4  ON  6  RPM 25)    Right (OFF  4  ON 11  RPM 25)

  AGITATION 2
    Left  (OFF  4  ON 11  RPM 62)    Right (OFF  4  ON  6  RPM 62)

  AGITATION 3
    Biological time 30  T. NOV. 90
    Left  (OFF  4  ON  6  RPM 25)    Right (OFF  4  ON  6  RPM 25)

  AGITATION 4
    Left  (OFF  6  ON  9  RPM 40)    Right (OFF  6  ON  9  RPM 40)

  AGITATION 5
    Left  (OFF  2  ON 13  RPM 40)    Right (OFF  2  ON 13  RPM 40)

  AGITATION 6
    Left  (OFF 11  ON  4  RPM 25)    Right (OFF 11  ON  4  RPM 25)

  AGITATION 7
    Left  (OFF 56  ON  4  RPM 25)    Right (OFF 56  ON  4  RPM 25)

  AGITATION 8
    Biological time120  T. NOV.  0
    Left  (OFF  0  ON  0  RPM  0)    Right (OFF  0  ON  0  RPM  0)

  AGITATION 9
    Biological time 20  T. NOV.  0
    Left  (OFF  0  ON  0  RPM  0)    Right (OFF  0  ON  0  RPM  0)

  AGITATION 10
    Biological time 57  T. NOV.  0
    Left  (OFF  0  ON  0  RPM  0)    Right (OFF  0  ON  0  RPM  0)

  AGITATION 11
    Left  (OFF 36  ON  4  RPM 25)    Right (OFF 36  ON  4  RPM 25)

  AGITATION 12
    Left  (OFF  4  ON  8  RPM 35)    Right (OFF  4  ON  8  RPM 35)

  AGITATION 13
    Left  (OFF 20  ON  5  RPM 35)    Right (OFF 20  ON  5  RPM 35)

  AGITATION 14
    Left  (OFF 14  ON 16  RPM 55)    Right (OFF 14  ON 16  RPM 55)

SPINS TABLE

    SPINS 0 (Solo Scarico)

    SPINS  1
       Impulse  Ramp Distribution time  Spin time     RPM
          1          1                    20           1          400
          2          0                    30           3          450
          3          0                    30           1          500
          4          0                    30           3          500
          5          0                    30           3          600
          6          0                    30         120          600

    SPINS  2
       Impulse  Ramp Distribution time  Spin time     RPM
          1          0                    30          20          400
          2          0                    30          20          600
          3          0                    30           0            0

    SPINS  3
       Impulse  Ramp Distribution time  Spin time     RPM
          1          1                    20           3          400
          2          0                    30           3          600
          3          0                    30          30          600
          4          1                    25          30          850

 PHASE 3 (Mechanical) -> Macro 2 ( 110 min )
        1 Load*[EVL/O.P.](0) + 2 Movement*[C.P.](6) + 3 Stand*[min/C.C.P.](12)

 PHASE 4 (Spin) -> Macro 18 ( 105 min )
        1 Spin*[SCAR./SETA](0)
        2 *[Tura Sel./V](21)

 PHASE 5 (Rinse) -> Macro 14 ( 115 min )
        1 Load*[EVL/O.P.](180) + 2 Movement*[C.P.](6) + 3 Stand*[min/C.C.P.](4)
        4 Spin*[SCAR./SETA](0)

 PHASE 6 (Rinse) -> Macro 14 ( 115 min )
        1 Load*[EVL/O.P.](180) + 2 Movement*[C.P.](6) + 3 Stand*[min/C.C.P.](4)
        4 Spin*[SCAR./SETA](0)

 PHASE 7 (Rinse) -> Macro 58 ( 115 min )
        1 Load*[EVA/O.P.](180) + 2 Movement*[C.P.](6) + 3 Stand*[min/C.C.P.](4)
        4 *[Tura Sel./V](22)
        5 Stand*[sec/C.S.P](5)

 PHASE 8 (Idrostop) -> Macro 54 ( 116 min )
        1 If button*[IronNin (pressed) execute and then go to  m.p. 3] + 2
*[Idrostop](0)
        3 *[Tura Sel./H](24)
 ------------------------------------------------------------------------------
 POSITION 21  - Mixed 0  (Rinse)

 PHASE 1 (Rinse) -> Macro 24 ( 115 min )
        1 Load*[EVL/O.P.](200)
        2 Movement*[C.P.](11) + 3 Stand*[min/C.S.P.](3)
        4 Spin*[SCAR./LANA](2)

 PHASE 2 (Rinse) -> Macro 25 ( 115 min )
        1 Load*[EVA/O.P.](200)
        2 Movement*[C.P.](11) + 3 Stand*[min/C.S.P.](3)
```

Legend

Legend: lg027400

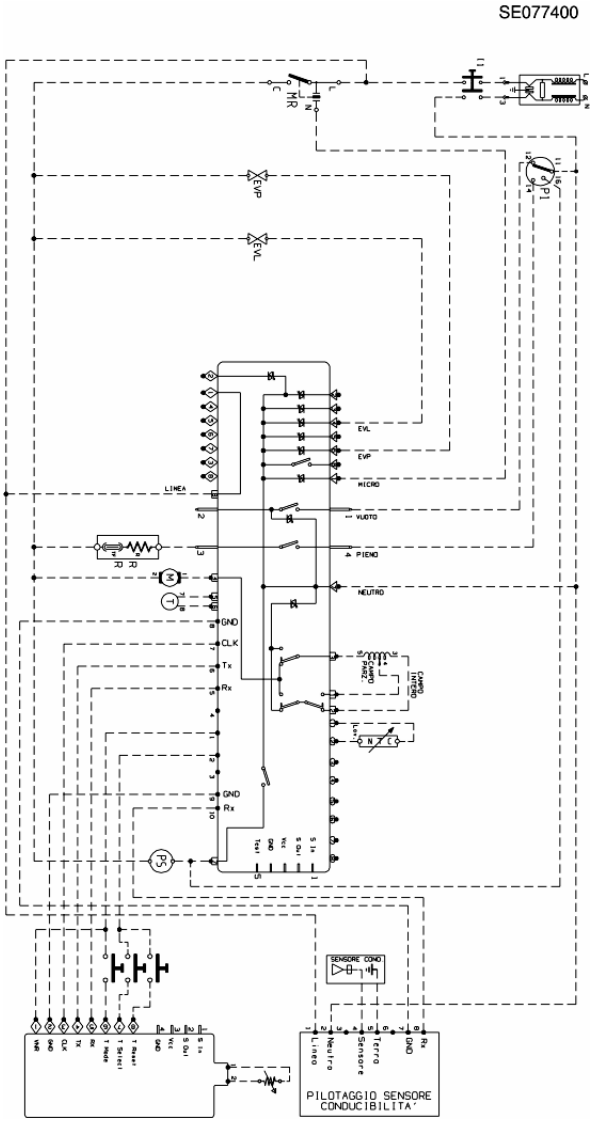
AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
EVP	Pre Wash electrovalve	SL	Line LED
FA	Antijamming filter	SO	Door LED
FD	Delicate drying cycle thermostat	SR	Heating LED
FE	Strong drying cycle thermostat	ST	Temperature selector
FRT	Thermofusible Heating Element	SV	Speed Selector for Spin
I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
IF	Switch - Spin Reduction	TG	Main earth
IP	Door switch	TH	Thermostat
IR	Line switch	THF	Operating thermostat
IS	Water-stop	THR	Adjustable thermostat
I1..2..3..	Switches/switching devices	TH1	1st temperature thermostat
L	Line or Lamp	TH2	2nd temperature thermostat
LB	Low Level	TH3	3rd temperature thermostat
LN	Normal Level	TM	Motor earth
LS	Pilot lamp	TMB	Main cabinet earth
M	Earth-symbol	TMP	Motor thermal protector
MC	Spin cycle motor	TMS	Thermostop
MI	MOTOR WITH PULLEY	TP	Thermal protector
ML	Wash cycle motor	TPS	Drain pump earth
MO	Terminal Board	TR	Heating element earth
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. se077400

SE077400



Legend

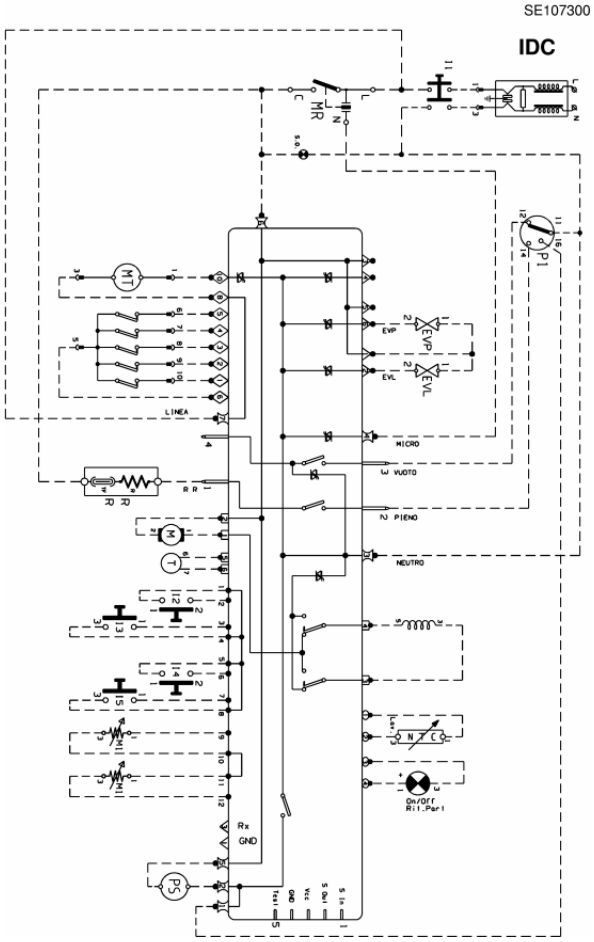
Legend: se077400

AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
EVP	Pre Wash electrovalve	SL	Line LED
FA	Antijamming filter	SO	Door LED
FD	Delicate drying cycle thermostat	SR	Heating LED
FE	Strong drying cycle thermostat	ST	Temperature selector
FRT	Thermofusible Heating Element	SV	Speed Selector for Spin
I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
IF	Switch - Spin Reduction	TG	Main earth
IP	Door switch	TH	Thermostat
IR	Line switch	THF	Operating thermostat
IS	Water-stop	THR	Adjustable thermostat
I1..2..3..	Switches/switching devices	TH1	1st temperature thermostat
L	Line or Lamp	TH2	2nd temperature thermostat
LB	Low Level	TH3	3rd temperature thermostat
LN	Normal Level	TM	Motor earth
LS	Pilot lamp	TMB	Main cabinet earth
M	Earth-symbol	TMP	Motor thermal protector
MC	Spin cycle motor	TMS	Thermostop
MI	MOTOR WITH PULLEY	TP	Thermal protector
ML	Wash cycle motor	TPS	Drain pump earth
MO	Terminal Board	TR	Heating element earth
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. se107300



Legend

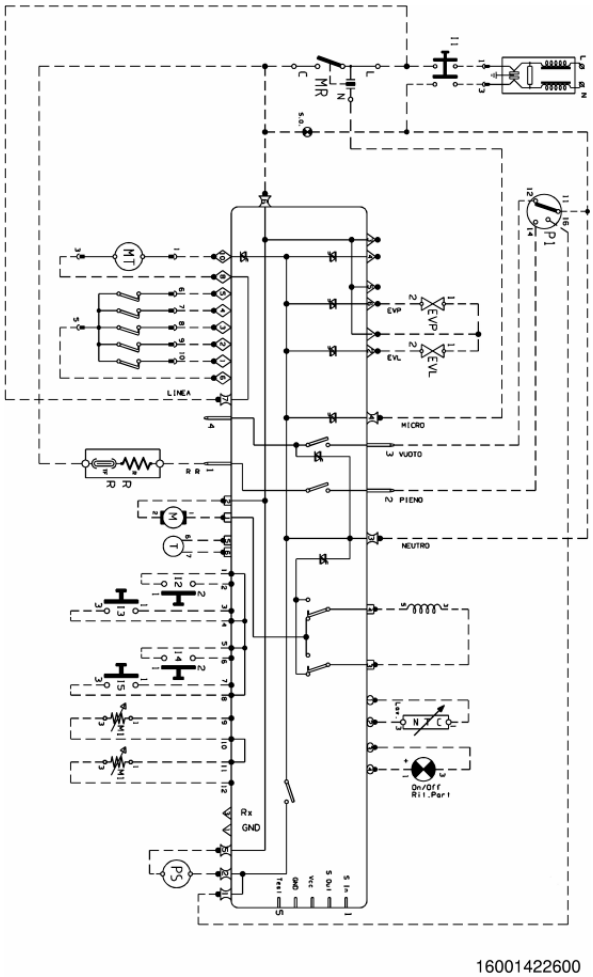
Legend: se107300

AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
EVP	Pre Wash electrovalve	SL	Line LED
FA	Antijamming filter	SO	Door LED
FD	Delicate drying cycle thermostat	SR	Heating LED
FE	Strong drying cycle thermostat	ST	Temperature selector
FRT	Thermofusible Heating Element	SV	Speed Selector for Spin
I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
IF	Switch - Spin Reduction	TG	Main earth
IP	Door switch	TH	Thermostat
IR	Line switch	THF	Operating thermostat
IS	Water-stop	THR	Adjustable thermostat
I1..2..3..	Switches/switching devices	TH1	1st temperature thermostat
L	Line or Lamp	TH2	2nd temperature thermostat
LB	Low Level	TH3	3rd temperature thermostat
LN	Normal Level	TM	Motor earth
LS	Pilot lamp	TMB	Main cabinet earth
M	Earth-symbol	TMP	Motor thermal protector
MC	Spin cycle motor	TMS	Thermostop
MI	MOTOR WITH PULLEY	TP	Thermal protector
ML	Wash cycle motor	TPS	Drain pump earth
MO	Terminal Board	TR	Heating element earth
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. 16001422600



16001422600

Legend

Legend: 16001422600

AQS	Aquastop electrovalve	Mzbn/MTA	zbn timer motor
B	Buzzer	N	Neutral or Terminal Board
BC		NC	Spin cycle exclusion
BF	Terminal board contact, motor fan and dryer heatin	P	Pressure switch
BP	Buzzer	PA	High speed potentiometer
C	Condensator	PB	Low speed potentiometer
CA	Condensator	PL	Pure Wool
DV	Switching device	PM	Motor Thermoprotector
EF/CL	Electro-Valve Cold Water / Bleach	PR	Timer programmer or Pressure switch
EF/L	Electro-Valve Cold Water / Wash	PS	Drain pump
EF/P	Electro-Valve Cold Water / Prewash	P1	1st level pressure cut-off switch
ER	Exclude Heating Element	P2	2nd level pressure cut-off switch
ET	Thermostat disactivation	R	Heating element
EV	Electrovalve	Ras/RA	Dryer heating element
EVA	Dryer electrovalve	RE	Relay
EVC	Hot water electrovalve	RR	Heating element
EVF	Elettrovalvola acqua fredda	RV	Speed regulator
EVL	Wash electrovalve	S	LED
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FA	Antijamming filter	SO	Door LED
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I	Inverter	T	Timer contacts
IA	Switch On/Off	TA	Drying timer contacts

IC	Switch N.C. - 1/2 Load	TB	Low Temperature Thermostat
ID	Switch display	TC	Spider wheel earth
IE	Water Saving Device	TFL	Flange earth
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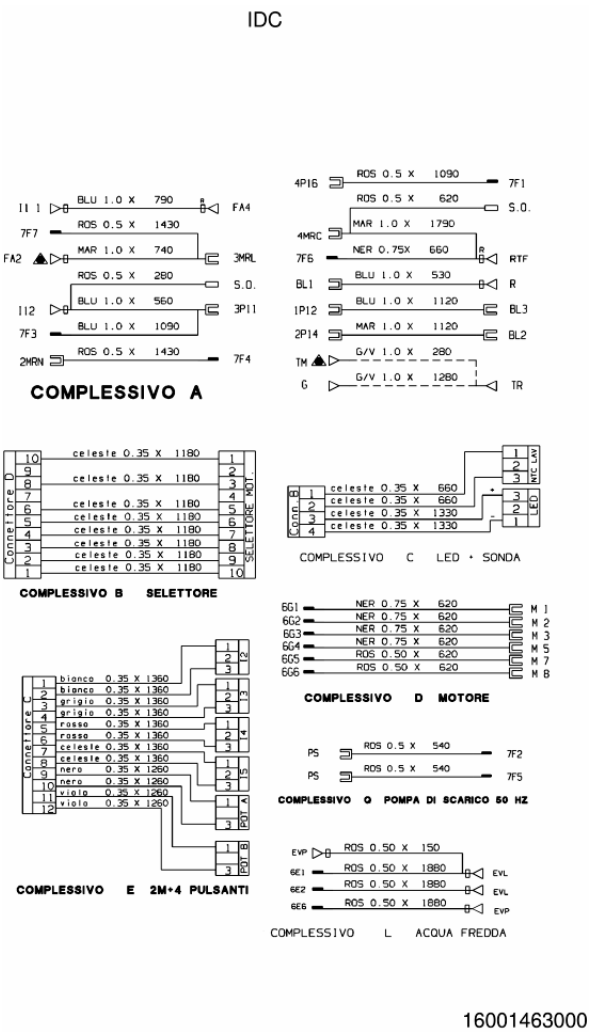
MP	Door dip-switch	TS	Safety thermostat
MR	Thermal Lock	TT	Timer earthing connection
MT	Timer motor	TTH	Earthing Thermostat
MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer

Electric schemes and links

Cod. 16001463000

IDC



16001463000

Legend

Legend: 16001463000

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MV	Motor fan	TV	Tank earth
MV -Ras	Dryer heating element	ZBN	Timer