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DISHWASHER

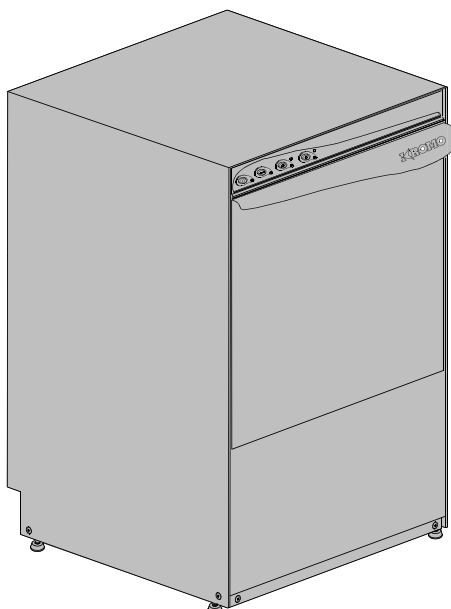
ELECTROMECHANICAL SWITCHES
LOWER AND UPPER WASHING
INSULATED MODEL

TYPE: 86K

Accessories
BREAK TANK
BOOSTER PUMP
DVGW

COLD RINSE
WATER SOFTNER
DETERGENT DISPENSER
DRAIN PUMP

Spare Parts Manual



S/N:

Valid from:06/2006

Rev.: 0.0

Code 999XXYYYY

Model DESCRIPTION

S/N 04012345

Type

CL/Part

400VAC3N

50HZ

8A

3500W

500W

IPX3

Pressione Dinamica alimentazione idrica

Pression dynamique arrivée d'eau

Dynamic pressure water supply

Dynamischer Druck asserreinlauf

200-500

MADE IN ITALY

Pressione dinamica vapore saturo

Pression dynamique vapeur satueèè

Dymanischer Druck gesättigter Dampf

Pression Dinamica Vapor Saturado

TECHICAL SPECIFICATION

Temperatura massima acqua in ingresso 60°C

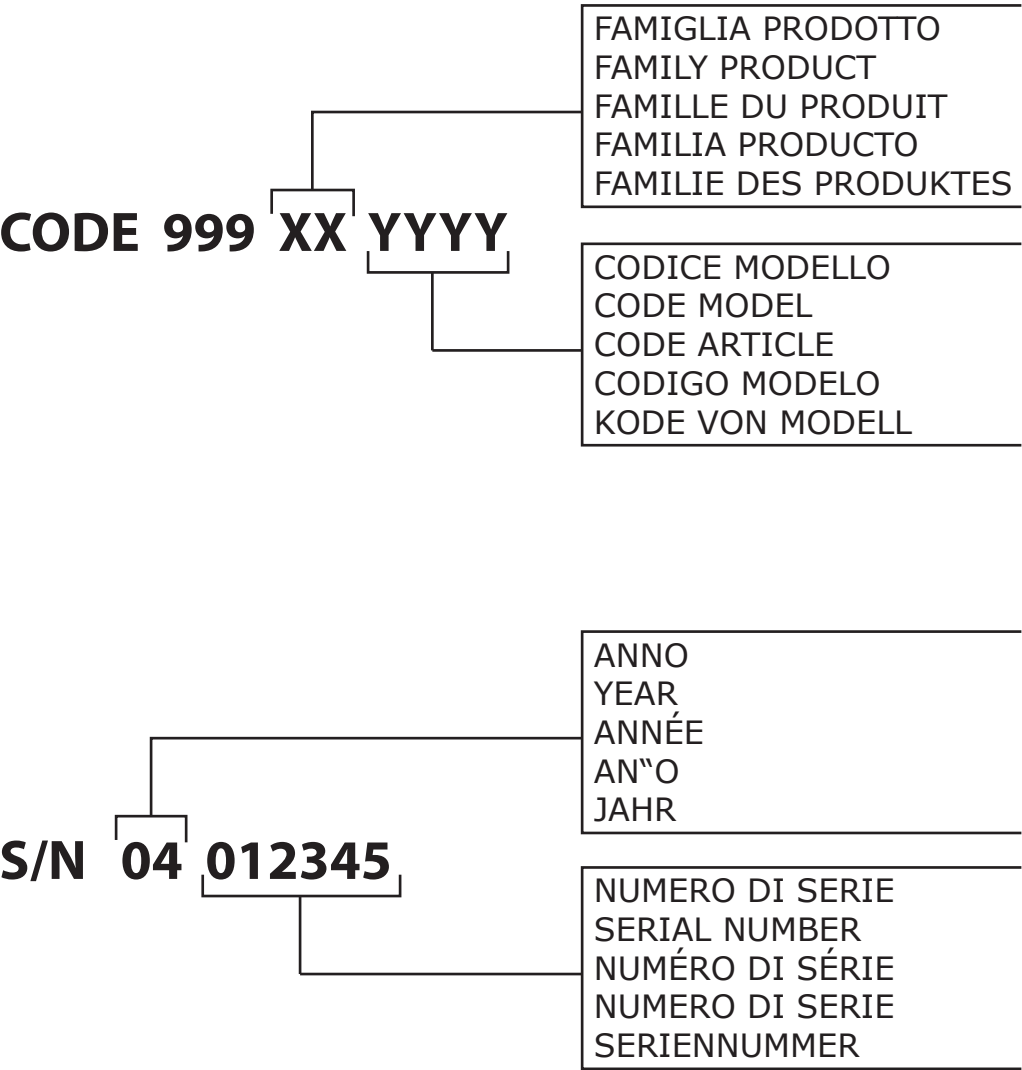
Temperature max eau a l'entre

Maximale Temperatur Wasseranschluß

Maximum Water temperature in-feeding

Model

S/N



Spare parts

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1. Spare parts

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1.1 Voltage codes

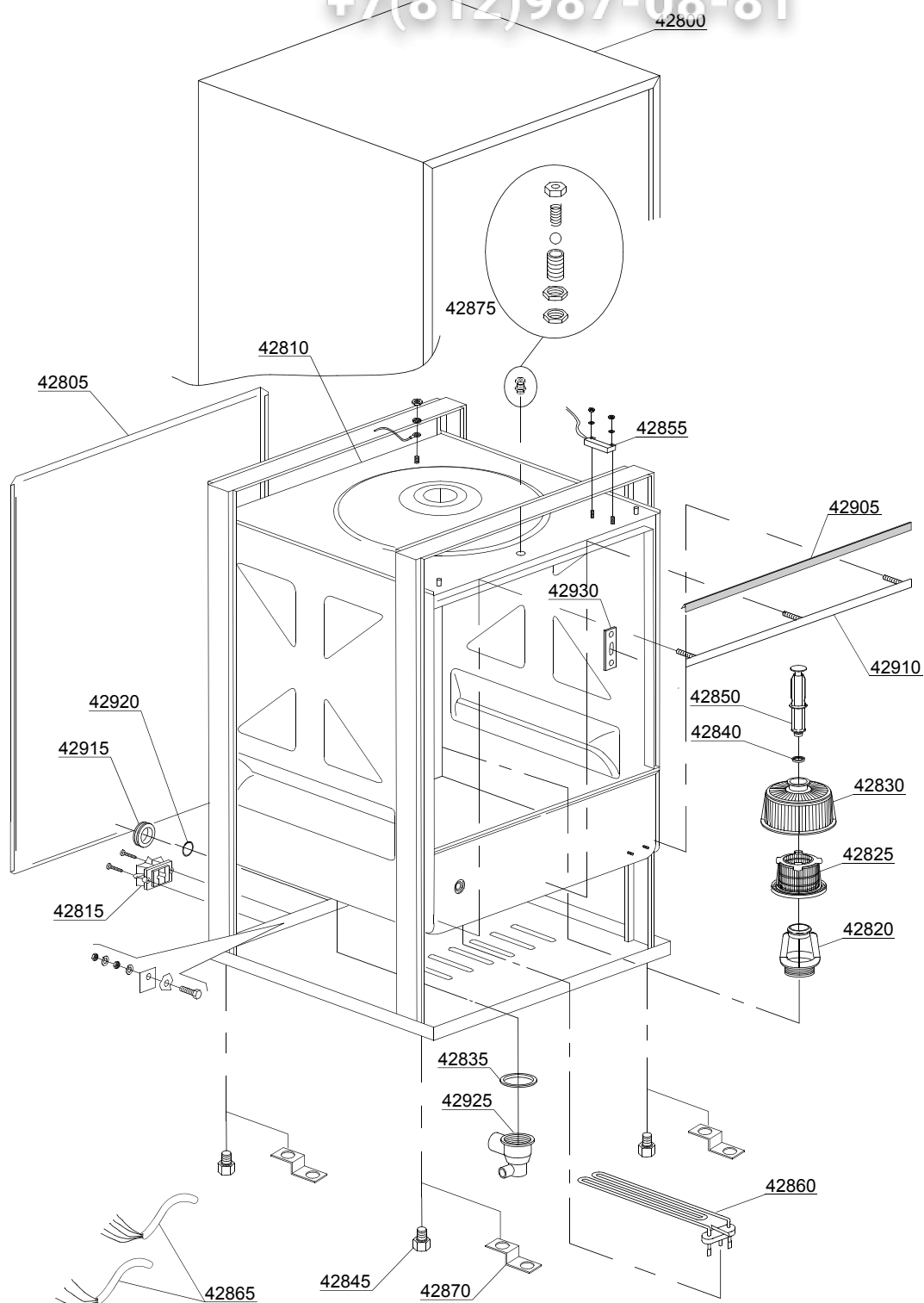
Volt	Voltage code
A	3/N/PE~380-400V 50-60Hz
D	3/PE~200-210V 50-60Hz
F	2/PE~220-240V 50-60Hz
G	3/N/PE~415V 50-60Hz
H	3/PE~220-230V 50-60Hz
K	3/PE~380-400V 50-60Hz
L	3/PE~415V 50-60Hz
M	3/PE~440V 60Hz
P	1/N/PE~220-230V 50-60Hz
R	2/PE~220-240V 50-60Hz
U	1/N/PE~240V 50-60Hz
V	3/PE~240V 50-60Hz
W	1/N/PE~100-110V 50-60Hz

1.2 Product codes

Product code	Full name
Model codes	
em	ELECTROMECHANICAL SWITCHES
uw	LOWER AND UPPER WASHING
i	INSULATED MODEL
Type codes	
86K	86K
Accessory codes	
bt	BREAK TANK
bp	BOOSTER PUMP
dvgw	DVGW
cr	COLD RINSE
ws	WATER SOFTNER
dd	DETERGENT DISPENSER
dp	DRAIN PUMP

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01_038_e

ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module:General body parts							
42800	451004		-				Cover
42805	451005		-				Back panel
42810	451000		-		ws		Body
42810	451001		-		ws		Depuration Body
42815	15065/A		-				Cable-fastener with screw
42820	500607		-				Ferrule with filter
42825	500600		-				Internal filter with rack
42830	500616		-				Suction filter
42835	80208		-				95x75x3 O-ring (minimum 2 pieces)
42840	13021		-				DEM 40 O-ring (minimum 2 pieces)
42845	10851		-				High foot (minimum 4 pieces)
42850	500618		-				Overflow pipe
42855	10778		-				Reed magnet
42860	150047		-				2,7/2,94KW 230/240V heating element
42860	16035/A		-				1850/2020W 230/240V 50Hz heating element
42865	15118		-				5x2,5x2500 cable
42865	15104/B		-				3x4x2500 cable
42865	10713		-				3x2,5x2500 cable
42875	10775		-				Door jack assembly
42905	135205		-				Door O-ring
42910	451006		-				Door O-ring angular
42915	13317		-				D.40mm unloading pipe pass (minimum 2 pieces)
42920	13323		-				D.13mm dosing pipe pass (minimum 2 pieces)
42925	500606		-				Right side scrap tray
42930	150401		-				Door rod slide (minimum 4 pieces)

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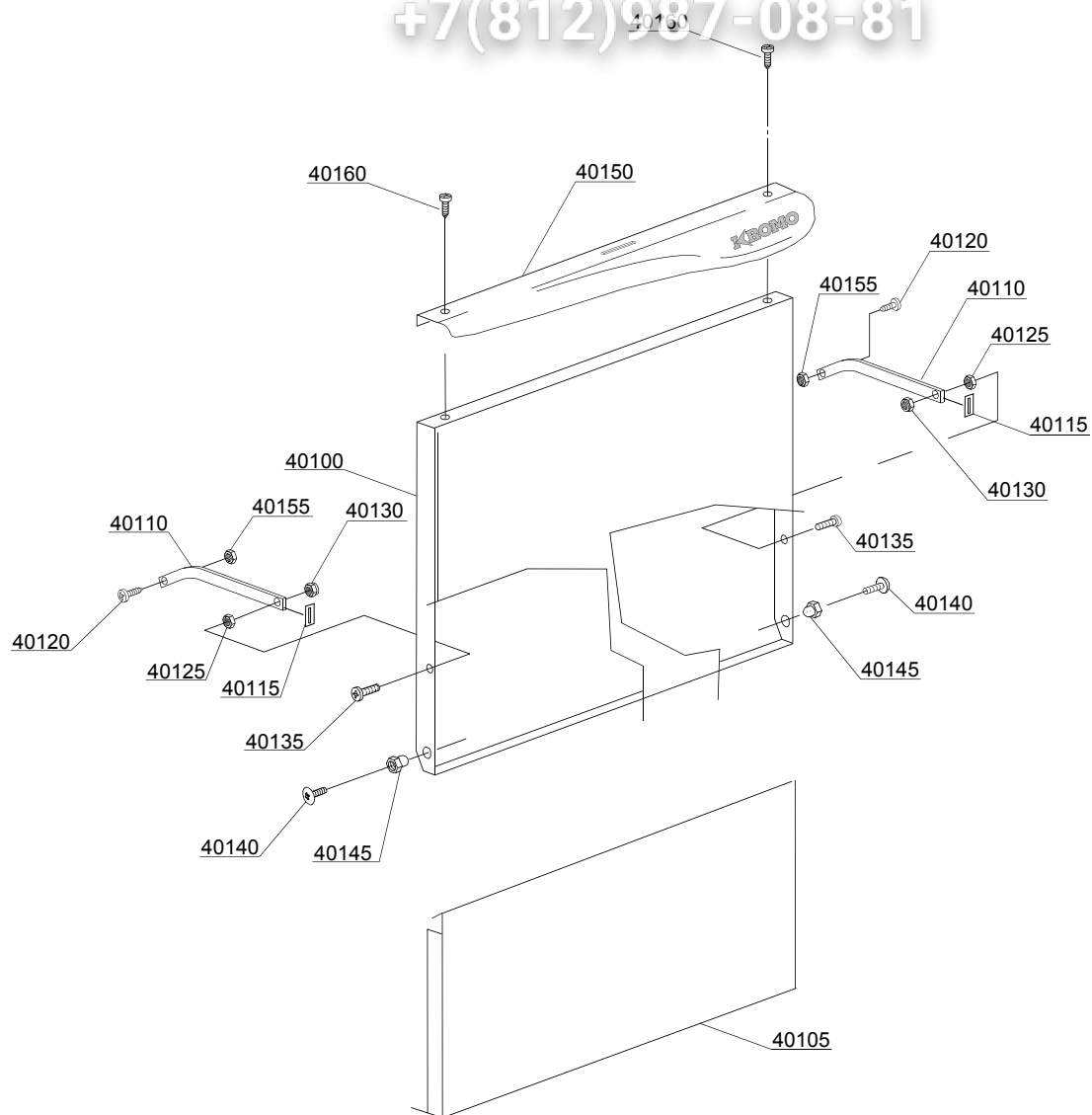
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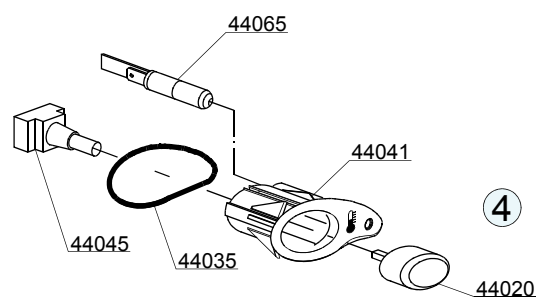
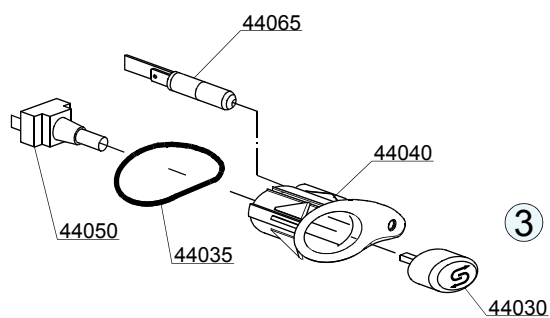
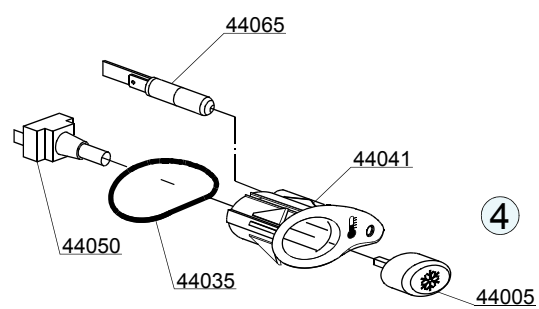
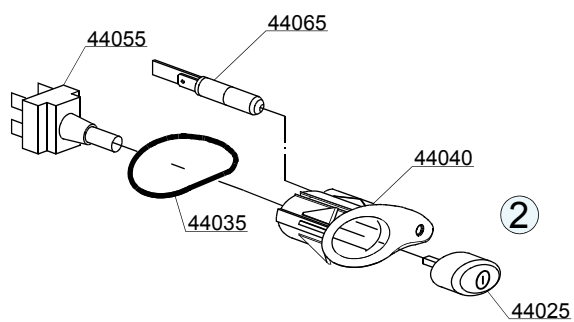
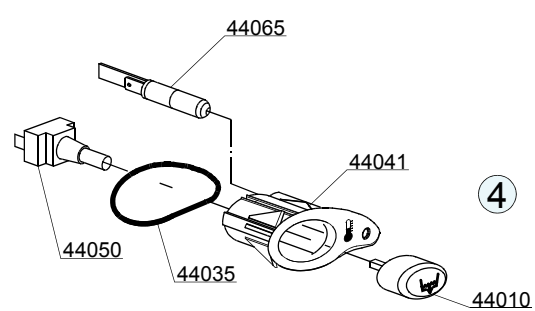
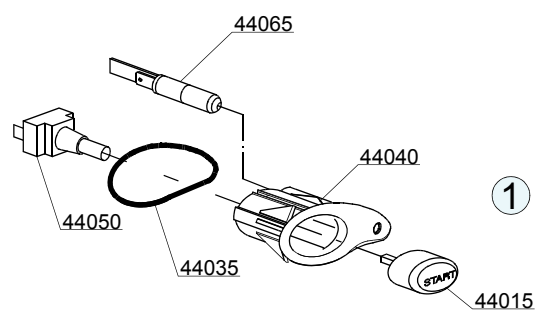
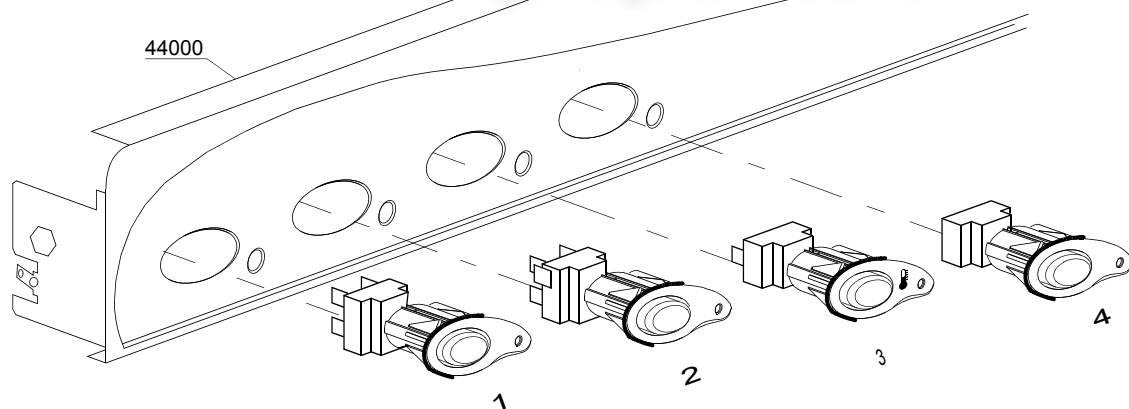
ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module: Lockup system							
40100	451002		-				Door
40105	451003		-				Lower door
40110	150221		-				Right/left door rod
40115	135222		-				Hinge door seal
40120	11121		-				M4x8 screw (minimum 20 pieces)
40125	11706		-				M6 stainless steel nut (minimum 20 pieces)
40130	11721		-				M6 self-locking nut (minimum 10 pieces)
40135	11111		-				M6x16 stainless steel screw (minimum 10 pieces)
40140	11168		-				M6x12 stainless steel screw
40145	510602		-				Bush
40150	451012		-				Stainless steel handle
40155	11703		-				M4 inox Plated nut
40160	11220		-				M4x14 screw

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ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module:Control panel and switches							
44000	510013		-	em			Control panel
44000	451009		-	em			Control panel
44005	89344		-	em	cr		Hot/cold prush button
44010	89343		-	em	dp		Drain pump push button (OPTIONAL)
44015	89341		-	em			START push button
44020	89348		-	em			Blind push button
44025	89340		-	em			ON-OFF push button
44030	89345		-	em	ws		Regeneration push button (OPTIONAL)
44035	86006		-	em			OR 2100 O-ring
44040	86001		-	em			Push button support
44040	86002		-	em			Temperature push button support
44045	15844		-	em			Push button support
44050	15813		-	em			16A unipolar switch
44055	15812		-	em			16A bipolar switch
44055	15800		-	em			16A switch
44060	15811		-	em			16A bipolar switch
44060	15811/A		-	em			16A bipolar switch
44065	15826		-	em			Pilot light 220V

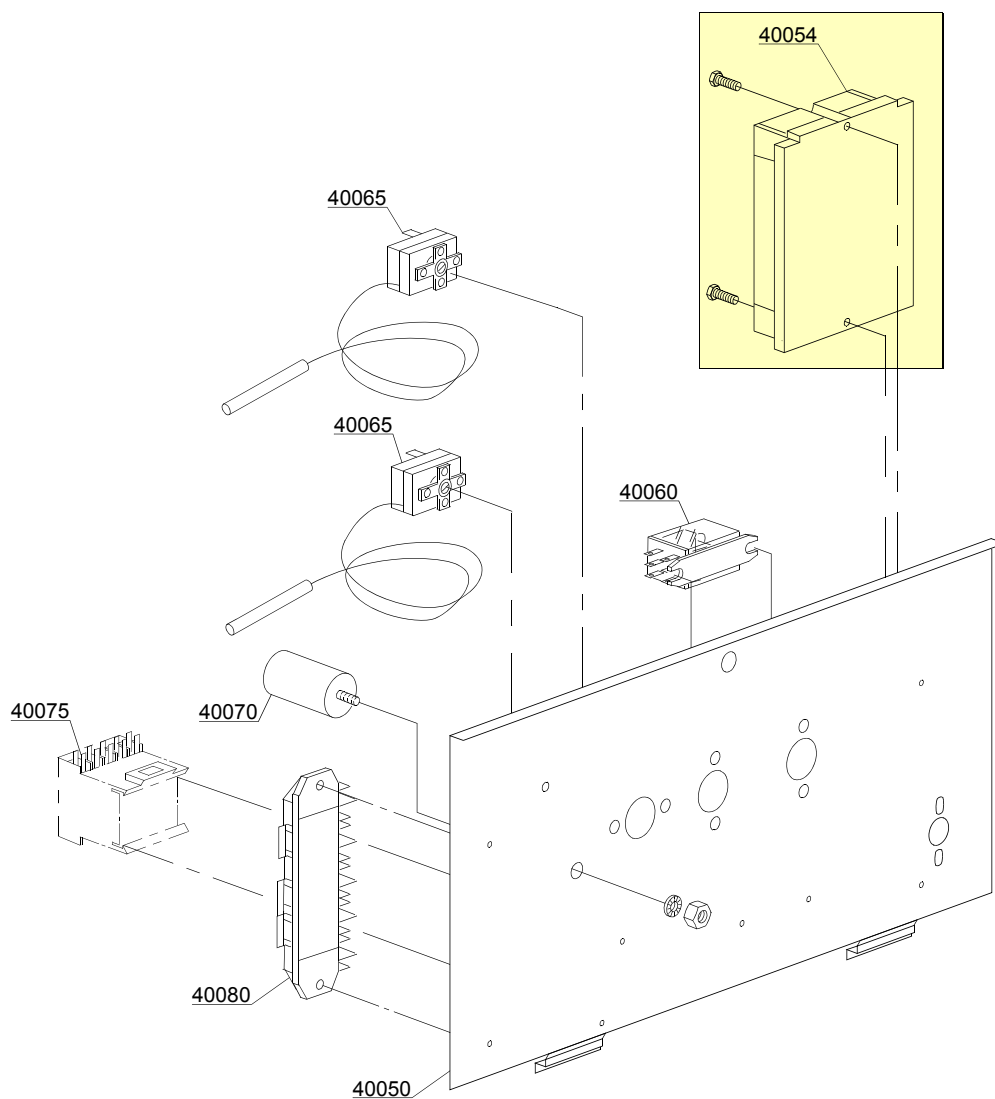
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ID	P-code	SN from	SN to	Mod	Acces	Volt	Description
Module:Electric control components							
40050	510008		-				Electric component panel
40054	50553		-		ws,dp		3 times electronic timer with regeneration+PS+TS
40060	560301		-				16A bipolar relay in deviation
40065	10707/1		-				0-90°C thermostat
40070	15149		-				Low noise filter
40075	15086		-				Contactora 230V 50/60Hz 4C
40080	500550		-				3 poles terminal board
40080	500551		-				6 poles terminal board

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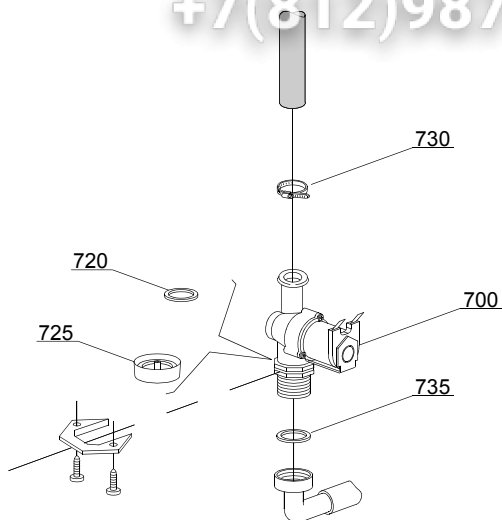
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05_002_e

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module:Solenoid valve group							
700	10703		-	i,em			Single solenoid valve - 230Vac
720	N.C.		-	i,em			Pression reducing valve
730	11807		-	i,em			12/22 clamp (minimum 3 pieces)
735	13307		-	i,em			3/4 gasket

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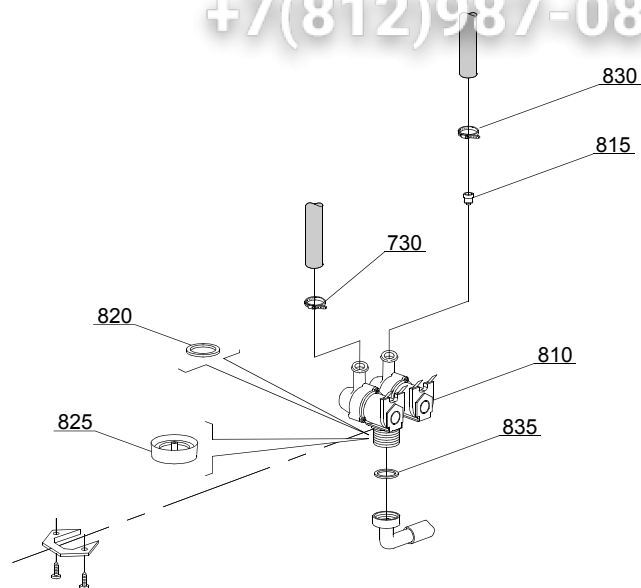
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ID	P-code	SN from	SN to	Mod.	Acces	Volt	Description
Module:Solenoid valve group							
810	15098		-	i,em	cr,ws		Double solenoid valve - Ø10 - 230Vac
815	15115		-	i,em	cr,ws		Green pression solenoid valve for regeneration (minimum 2 pieces)
820	N.C.		-	i,em	cr,ws		Pression reducing valve
830	11807		-	i,em			12/22 clamp (minimum 3 pieces)
835	13307		-	i,em			3/4 gasket

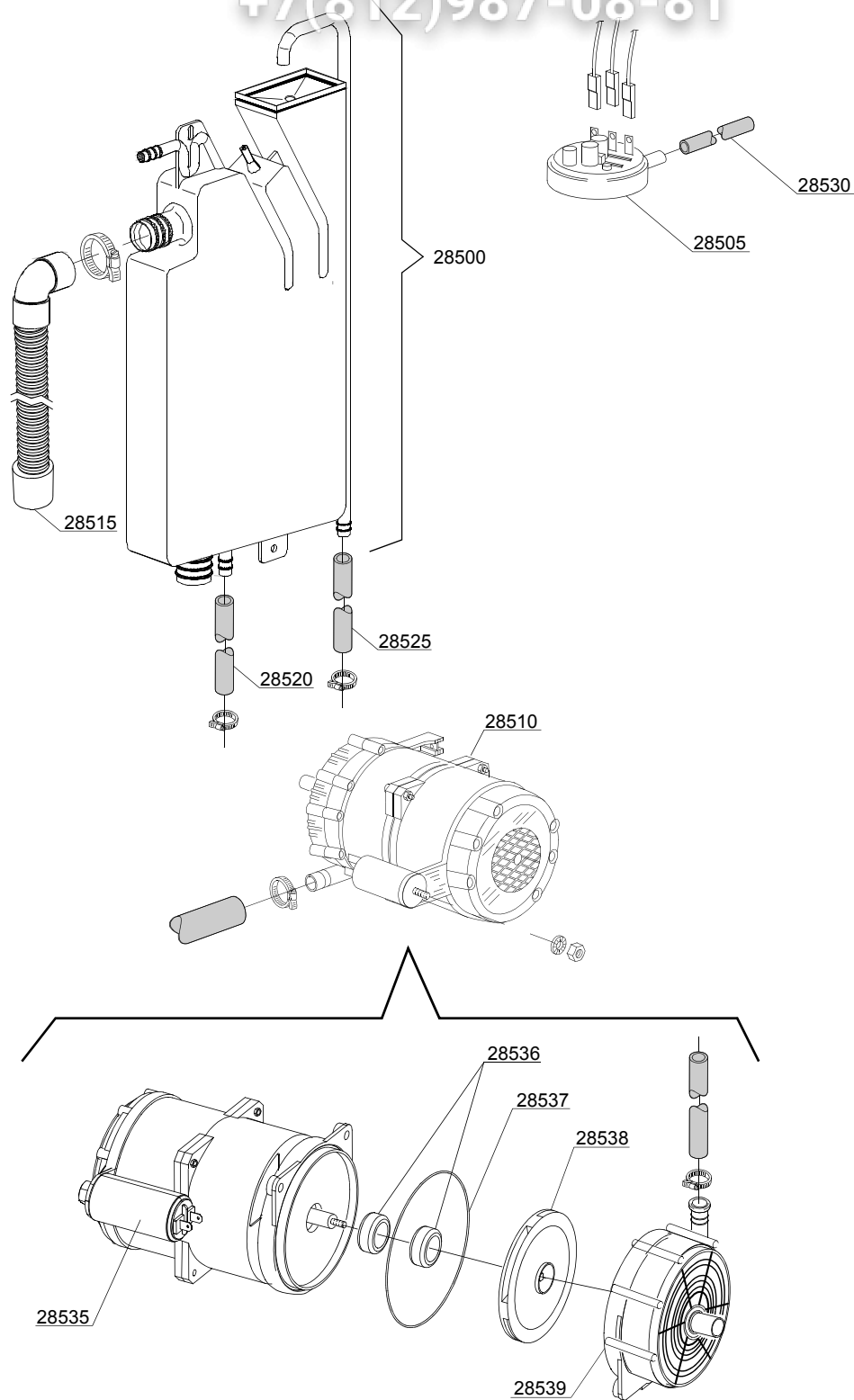
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06_004ae

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module:Break Tank							
28500	15735		-	i,em	bt		Break tank assembly
28505	10706/A		-	i,em	bt		47-27 pressure switch
28510	15100/D		-	i,em	bt		Booster pump 220/240V - body pumps in plastic
28515	15721		-	i,em	bt		BT long pipe L=1070
28515	15722		-	i,em	bt		BT middle pipe L=920
28515	15723		-	i,em	bt		BT small pipe L=690
28520	2907350		-	i,em	bt		12x20 EPDM rubber hose
28525	2907352		-	i,em	bt		PVC WRAS rubber hose
28530	14508		-	i,em	bt		4,5x9 EPDM rubber hose (minimum 2 mt)
28535	10702		-	i,em	bt		5 uF condenser - 450V
28536	15100/S		-	i,em	bt		Rotating seals
28537	15100/T		-	i,em	bt		OR-(O-ring) gasket EPDM
28538	15100/U		-	i,em	bt		Pump rotor
28539	15100/V		-	i,em	bt		Scroll

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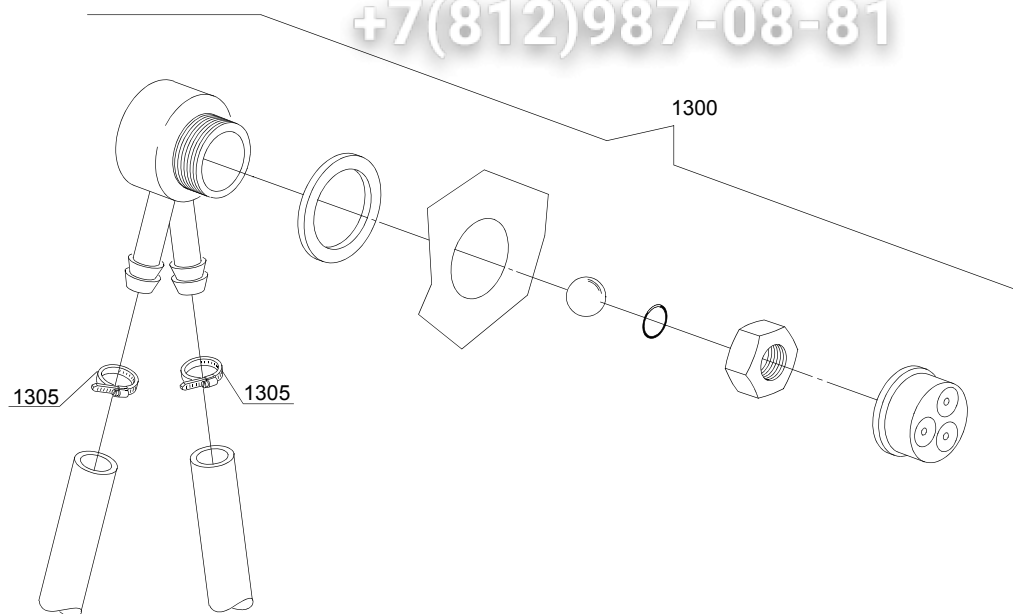
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ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module:DVGW							
1300	999900006		-	i,em	dvgw		DVGW assembly
1305	11807		-	i,em	dvgw		12/22 clamp (minimum 3 pieces)

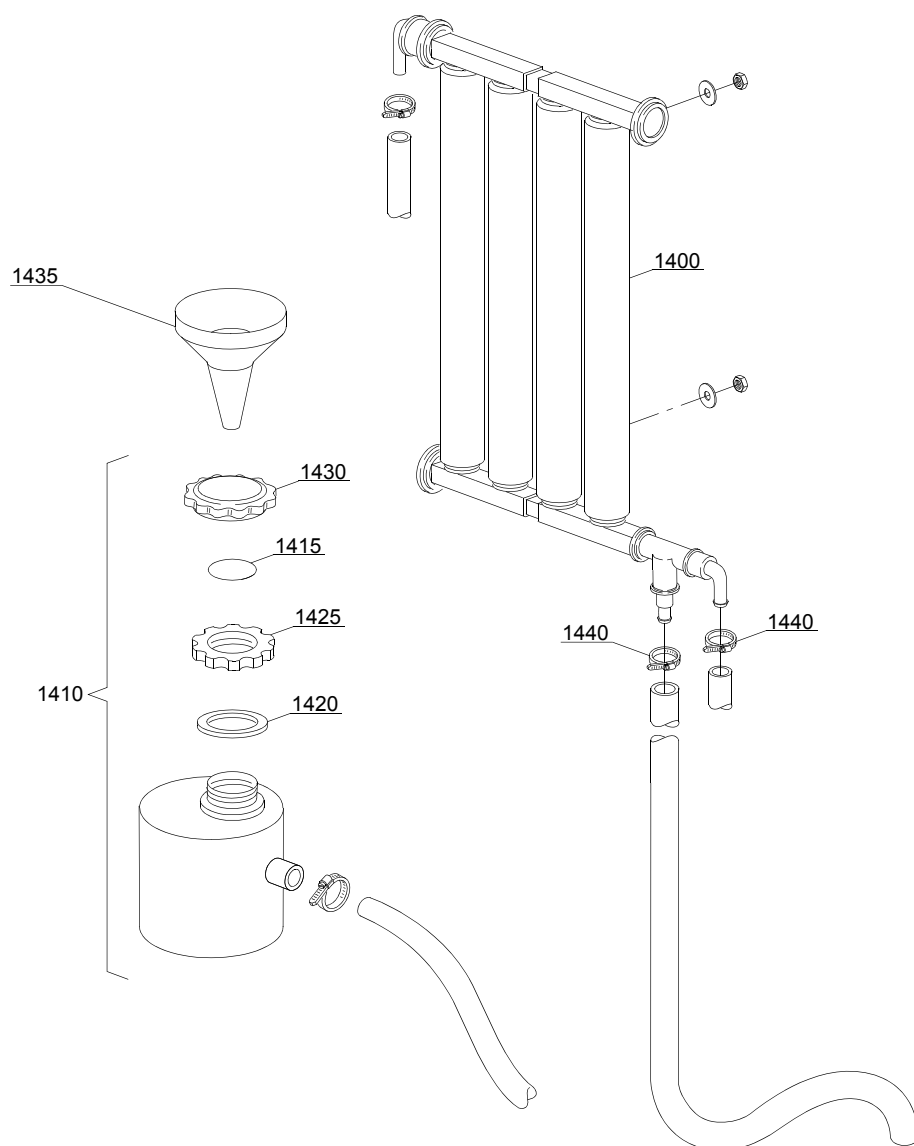
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09_001_e



ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module: Water softner group							
1400	16066		-	em	ws		4 elements water softner
1410	16065		-	em	ws		Salt container
1415	16067/A		-	em	ws		OR O-ring
1420	16067/B		-	em	ws		O-ring
1425	16067/C		-	em	ws		Ring nut
1430	16067/D		-	em	ws		Plug
1435	16082		-	em	ws		Funnel
1440	11807		-	em	ws		12/22 clamp (minimum 3 pieces)

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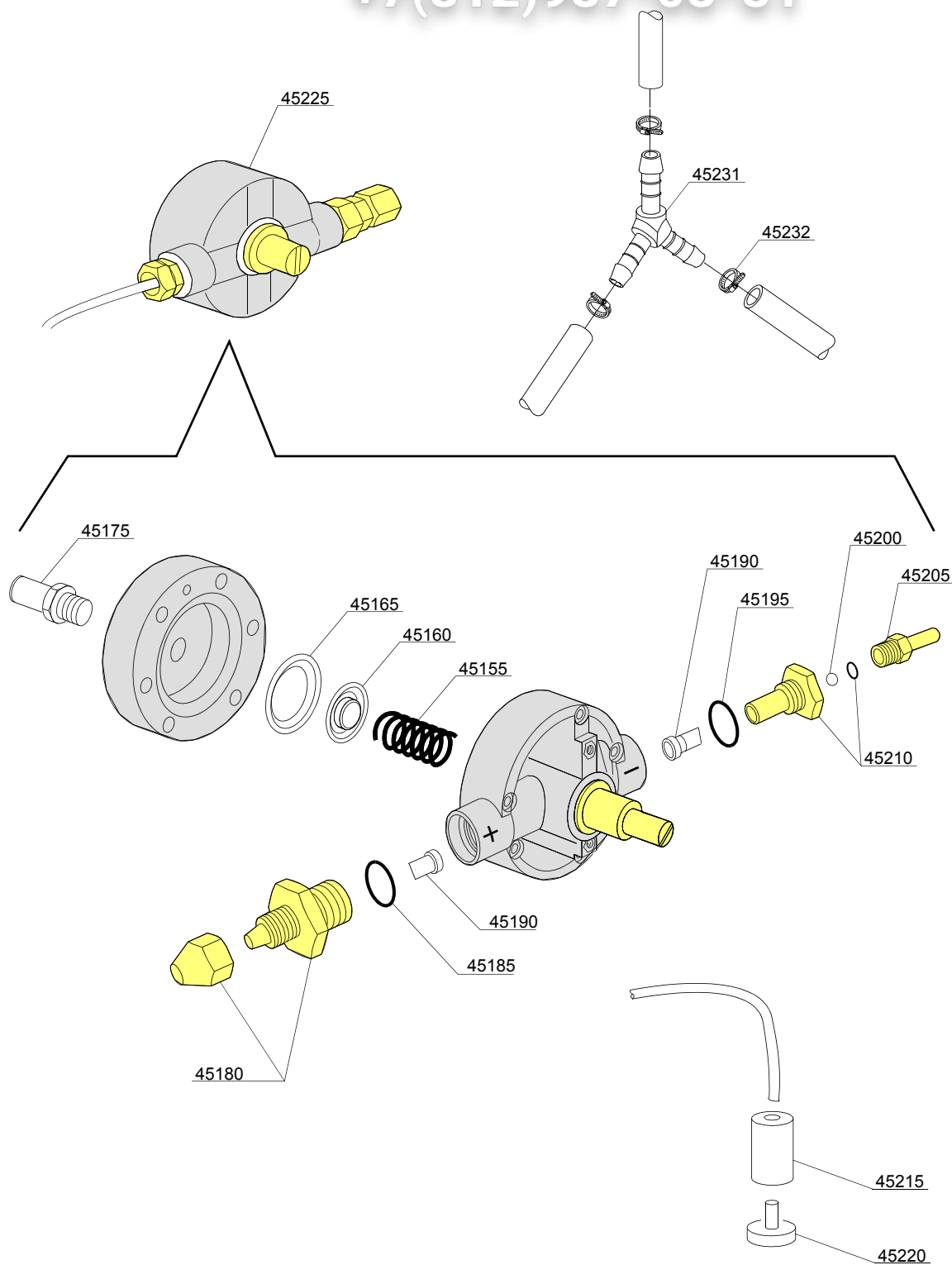
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10_001be



ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module: Rinse aid dispenser group							
45155	10705/M		-	i,em			Spring
45160	10705/N		-	i,em			Disc to membrane
45165	10750/O		-	i,em			Membrane
45175	12506		-	i,em			Rubber-holder Ø 10mm
45180	10705/G		-	i,em			Pipe fitting
45185	10705/C		-	i,em			OR-gasket
45190	10705/D		-	i,em			Silicone valve
45195	10705/C		-	i,em			OR-gasket
45200	10705/T		-	i,em			Sphere made of Teflon
45205	10705/R		-	i,em			Brass pipe fitting
45210	10705/E		-	i,em			OR-gasket Guide valve
45215	12525		-	i,em			Ballast
45220	15058		-	i,em			Small filter (minimum 3 pieces)
45225	10799/G		-	i,em			GERMAC rinse aid dispenser
45231	540091		-	i,em			Ø12 mm plastic 3 ways connection
45232	11807		-	i,em			Clamp 12-22 (minimum 3 pieces)

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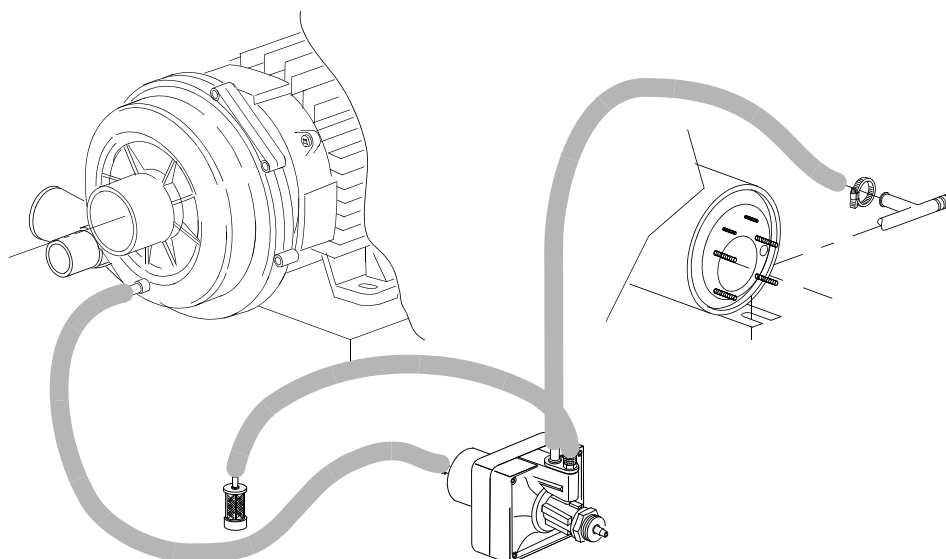
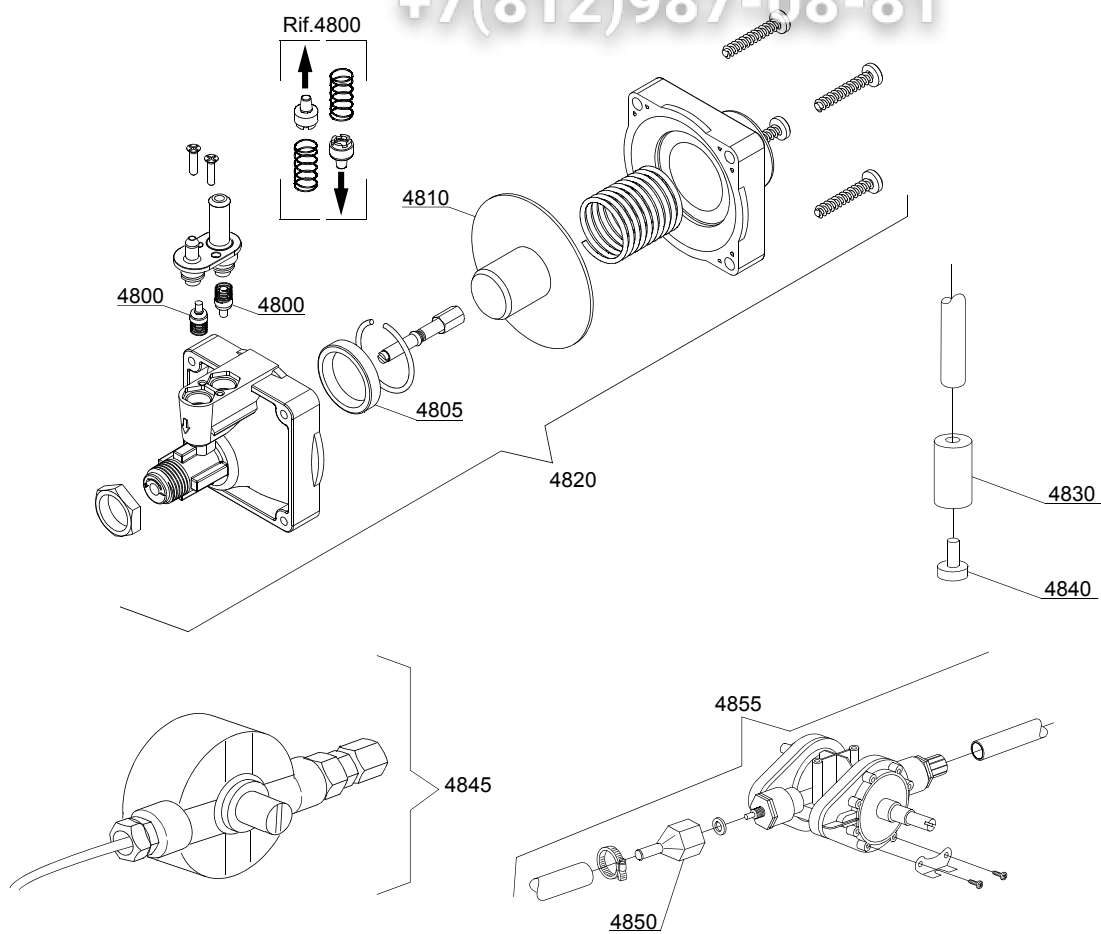
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bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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10_004Ke

ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module: Rinse aid dispenser group							
4800	10805		-	em			Tecnopro non return valve
4805	10806		-	em			Ø22 O-ring
4810	10807		-	em			Membrane
4820	10799		-	em			TECNO PRO rinse aid dispenser
4830	12525		-	em			Ballast
4840	15058		-	em			Small filter (minimum 3 pieces)
4845	10799		-	em			GERMAC rinse aid dispenser
4850	10798/B		-	em			Brass pipe fitting
4855	10798		-	em			LANG rinse aid dispenser

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

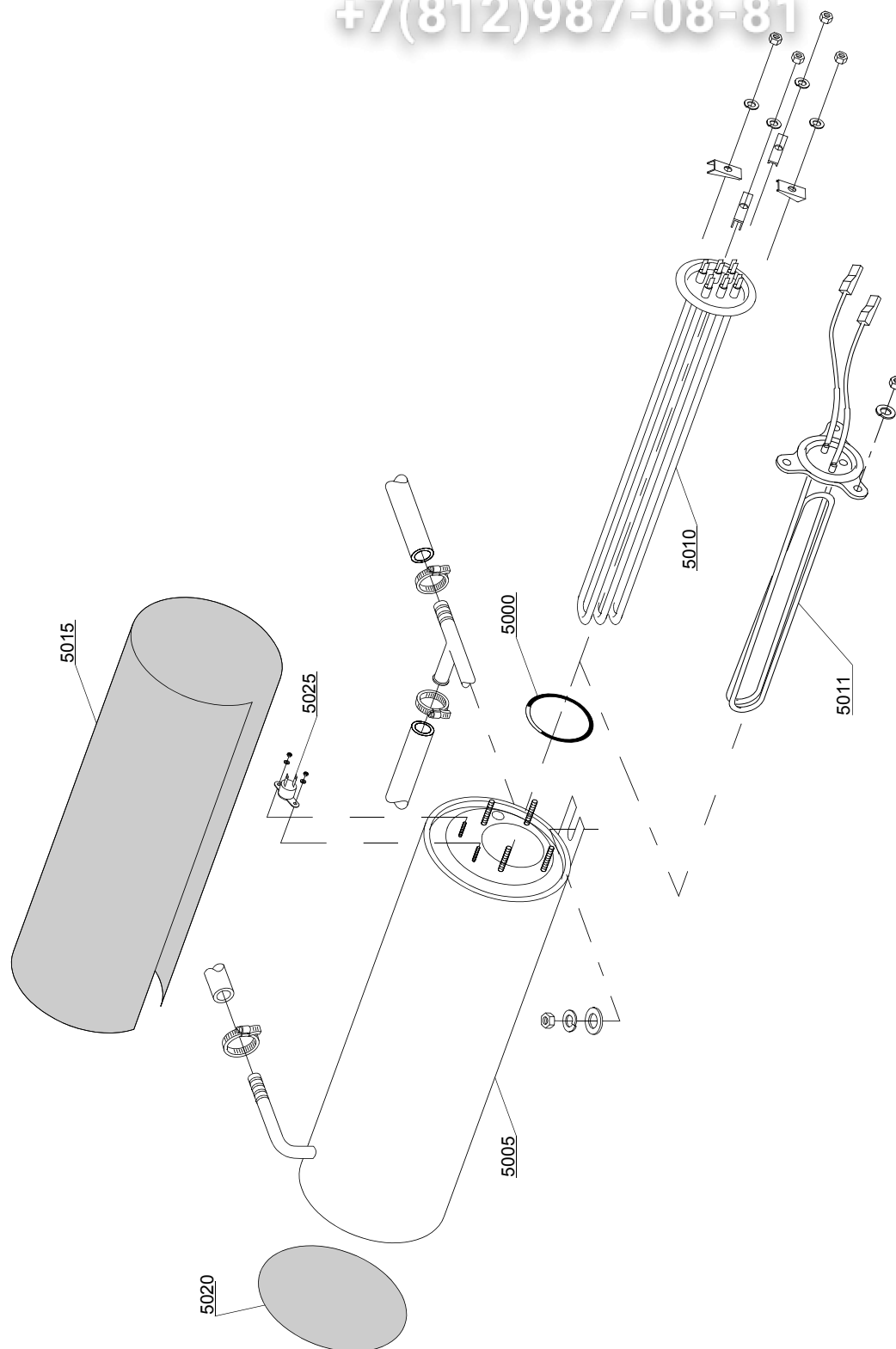
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bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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11_002ce

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module:Boiler group							
5000	13005		-	i,em			OR 151 NBR O-ring (minimum 5 pieces)
5005	150905		-	i,em			Boiler
5010	15089		-	i,em			4,5/4,9KW 230/240V 3 heating element
5010	15046		-	i,em			3/3,27KW 230/240V 3 heating element
5011	15089/D		-	i,em			2,8/3,0 KW 230/240V heating element
5015	15066		-	i,em			Insulation boiler
5020	15205		-	i,em			Ø160 End piece (minimum 2 pieces)
5025	15550		-	i,em			Safety thermostat

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

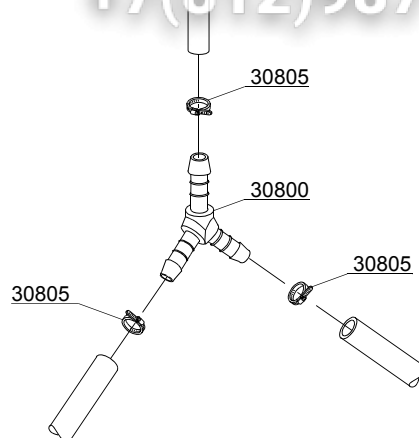
86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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12_003ae

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module:3 ways connection							
30800	540091		-	i,em			Ø12 mm plastic 3 ways connection
30805	11807		-	i,em			12/22 clamp (minimum 3 pieces)

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

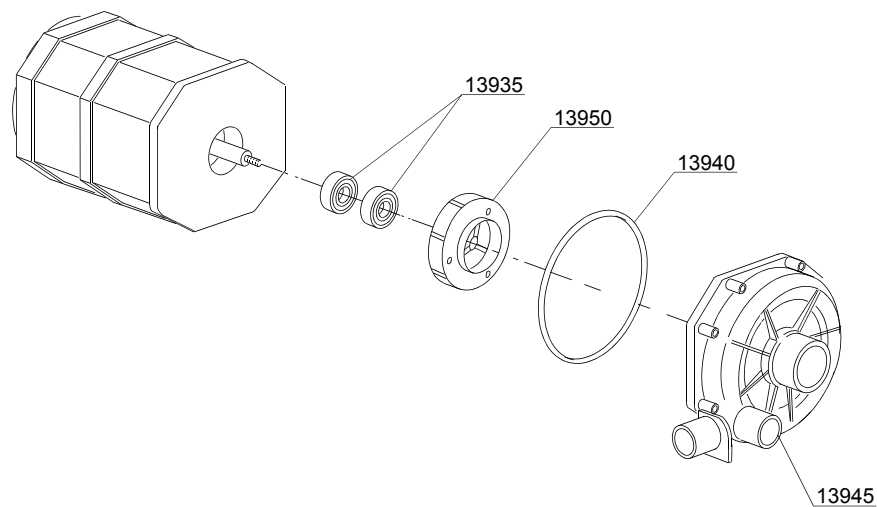
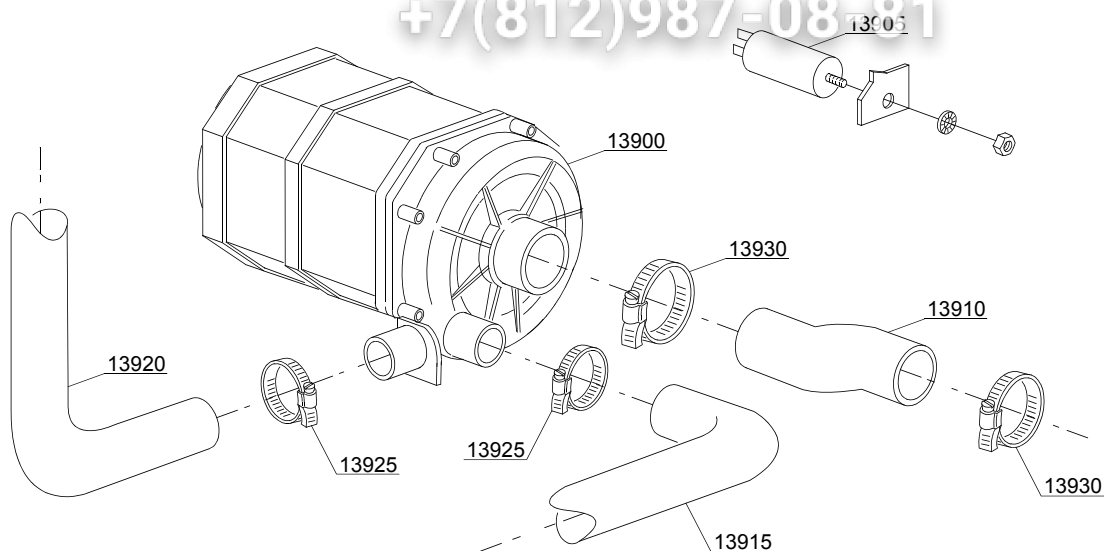
86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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13_110_e

ID	P-code	SN from	SN to	Mod	Acces	Volt	Description
Module: Wash pump							
13900	150914		-	uw			0,70Hp wash pump - 230Vac 50Hz
13900	150915		-	uw			0,70Hp wash pump - 230Vac 60Hz
13905	15081		-	uw			12,5 uF condenser
13910	25032/A		-	uw			Suction pipe coupling
13915	150049		-	uw			Lower wash pipe coupling
13920	150048/A		-	uw			Wash ramp
13925	11806		-	uw			25/40 clamp (minimum 2 pieces)
13930	11809		-	uw			30/45 clamp (minimum 2 pieces)
13935	15080		-	uw			Rotating seals
13940	7130		-	uw			OR pump O-ring (minimum 2 pieces)
13945	16182		-	uw			Scroll
13950	15079/F		-	uw			Pump rotor

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

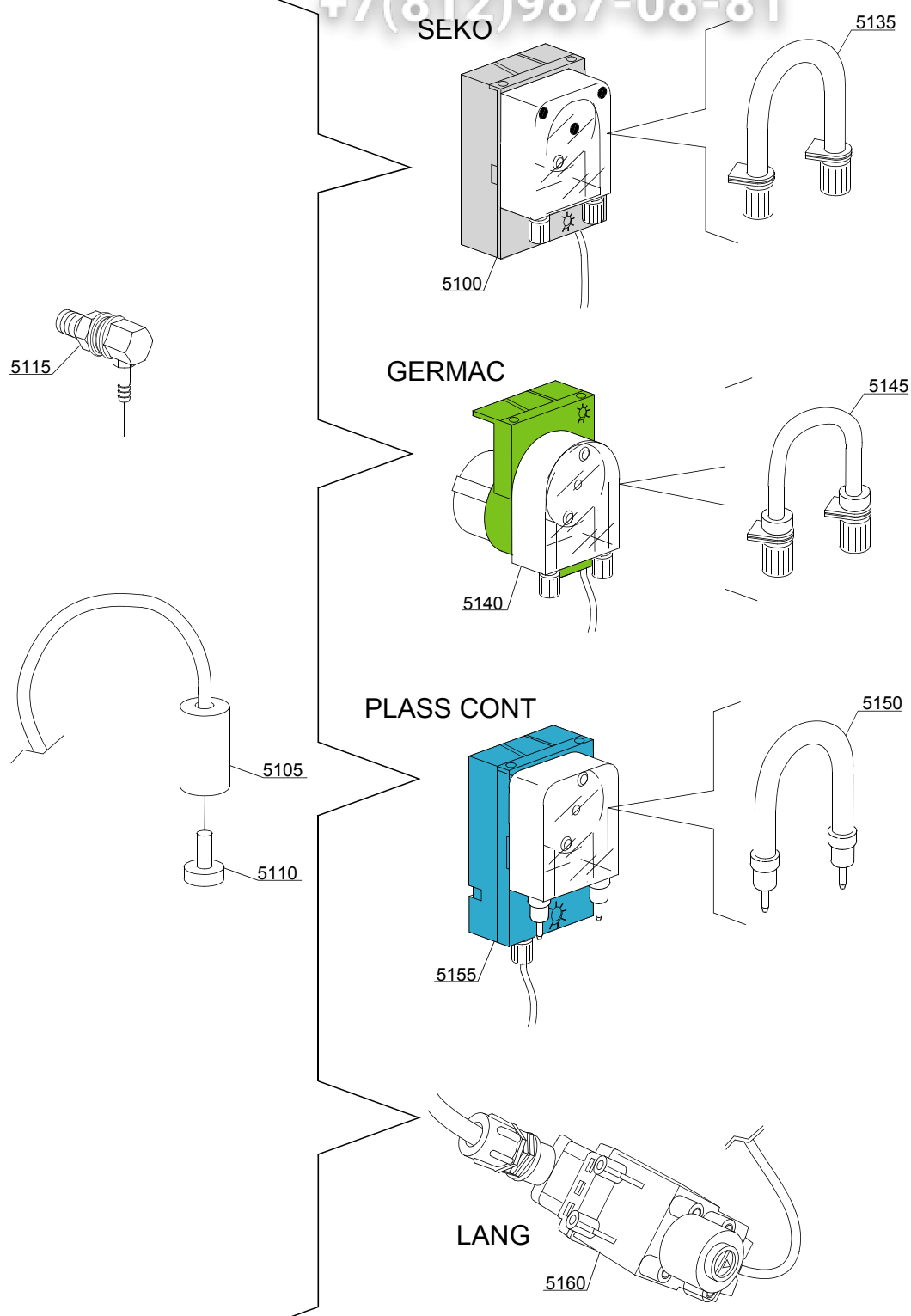
86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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14_004_e

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module:Dosing detergent group							
5100	15985		-	i,em	dd		Seko detergent pump
5105	12525		-	i,em	dd		Ballast
5110	15058		-	i,em	dd		Small filter (minimum 3 pieces)
5115	15123		-	i,em	dd		Compleat stainless steel injector
5135	15185		-	i,em	dd		Seko thermoplastic pipe
5140	15985		-	i,em	dd		Germac detergent pump
5145	15108/E		-	i,em	dd		Germac thermoplastic pipe
5150	15985/A			i,em	dd		Plas Cont thermoplastic pipe
5155	15985			i,em	dd		Plas Cont detergent pump
5160	15108/L			i,em	dd		LANG detergent pump

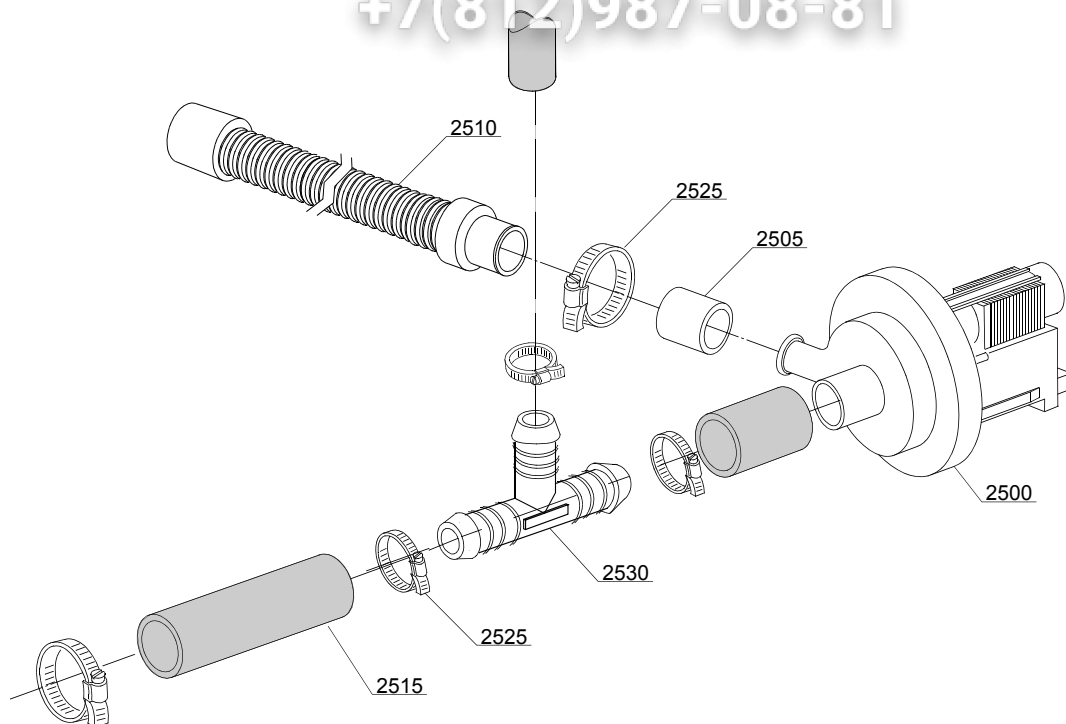
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86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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15_004be

ID	P-code	SN from	SN to	Mod	Acces.	Volt	Description
Module: Drain pump group							
2500	15101		-	em,i	dp		Drain pump 220/240V 50Hz
2505	15101/D		-	em,i	dp		Pipe fitting (minimum 3 pieces)
2510	10727		-	em,i	dp		Drain pipe
2515	18044		-	em,i	dp		Ø28 top wash pipe
2525	11806		-	em,i	dp		25/40 clamp (minimum 2 pieces)
2530	540098		-	em,i	dp,bt		D25 3 ways connection for BREAK TANK(bt)

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

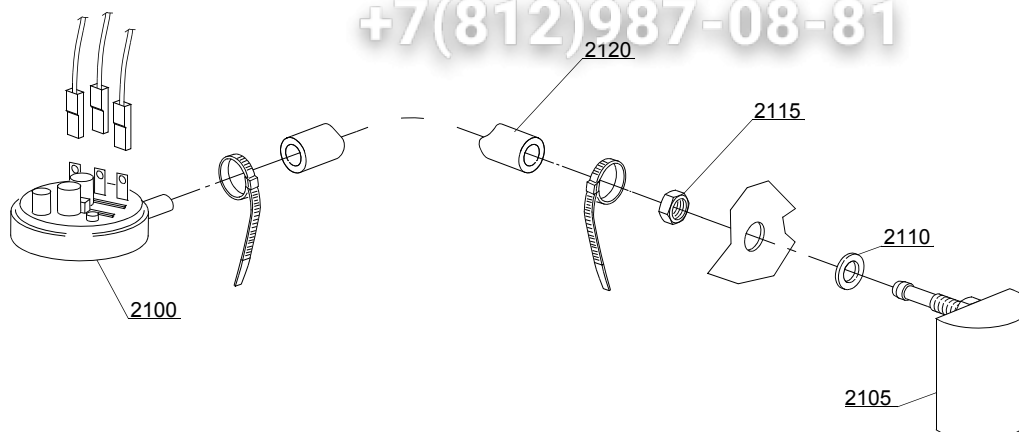
86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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16_001_e

ID	P-code	SN from	SN to	Mod	Acces	Volt	Description
Module: Pressure switch group with air trap							
2100	10706/A		-	i,em			47-27 pressure switch
2105	135911/B	4020618	-	em,i			Grey air trap assembly
2110	13301		-	i,em			O-ring (minimum 10 pieces) - D14x8x1,5
2115	11702		-	i,em			M8 stainless steel nut (minimum 10 pieces)
2120	14508		-	i,em			4,5X9 EPDM rubber hose (minimum 2mt)

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

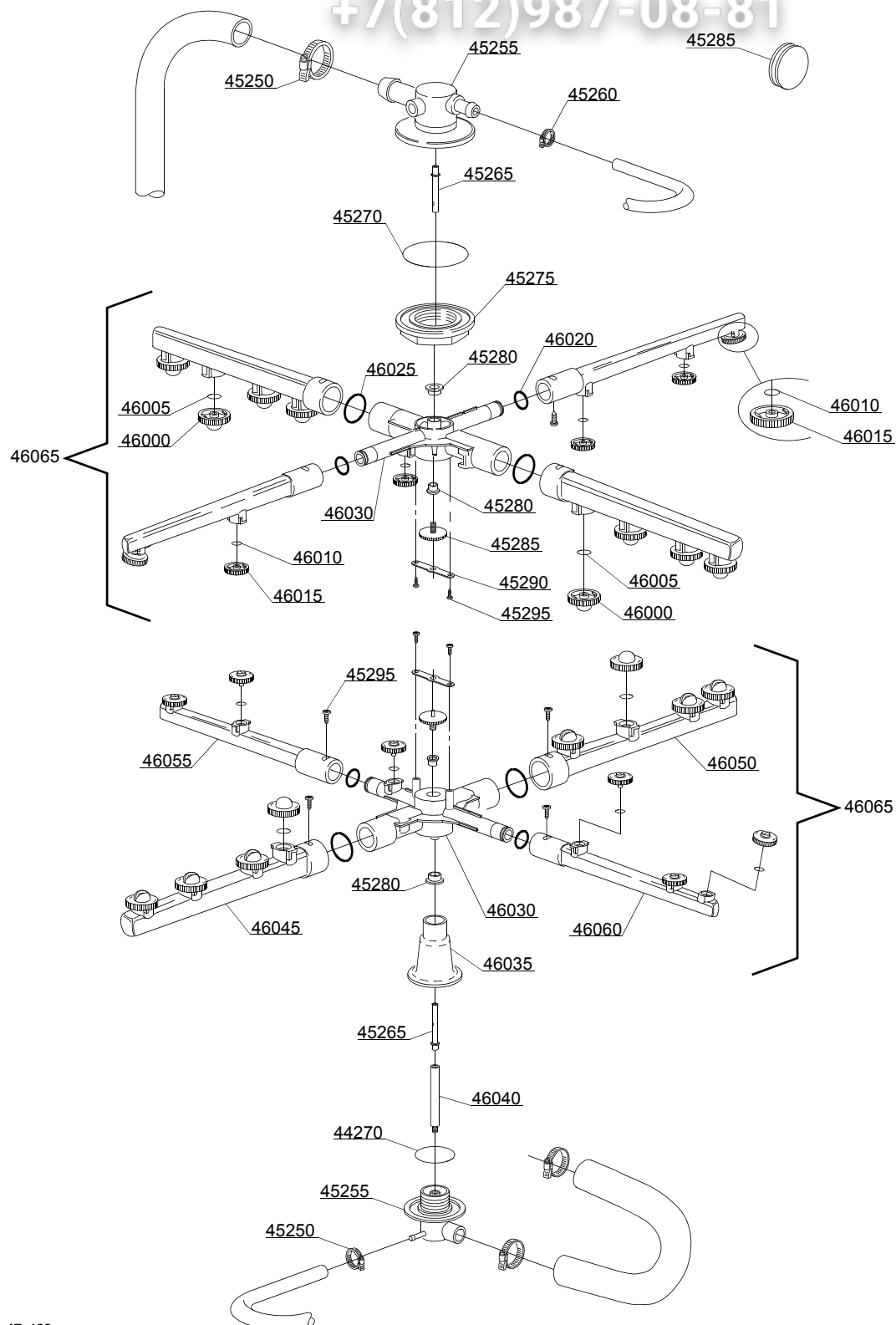
86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz

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17_138_e

ID	P-code	SN from	SN to	Mod.	Acces.	Volt	Description
Module:Turret group with rotating arms							
45250	11806		-	em,uw,i			25/40 clamp (minimum 2 pieces)
45255	500612		-	em,uw,i			Top/lower turret
45260	11807		-	em,uw,i			12/22 clamp (minimum 3 pieces)
45265	15300		-	em,uw,i			Ø10x51 lower/top rinse axle
45270	13015		-	em,uw,i			6225 OR 160 NBR O-ring (minimum 5 pieces)
45275	500623		-	em,uw,i			Ring nut for fixing turret
45280	13319		-	em,uw,i			Sliding washer (minimum 4 pieces)
45285	11101/I		-	em,uw,i			Stainless steel group fixing screw
45290	10260		-	em,uw,i			Blocking ring nut rotor plaque (minimum 10 pieces)
45295	11004		-	em,uw,i			4x10 TCB Ø8 spax toothed screw
46000	10369		-	em,uw,i			Opened wash nozzle (minimum 2 pieces)
46005	13009		-	em,uw,i			OR 2050 NBR O-ring (minimum 10 pieces)
46010	13002		-	em,uw,i			OR R6 NBR O-ring (minimum 10 pieces)
46015	10371		-	em,uw,i			Rinse nozzle
46020	13002		-	em,uw,i			OR R6 NBR O-ring (minimum 10 pieces)
46025	13029		-	em,uw,i			OR 2100 NBR O-ring (minimum 10 pieces)
46030	500755		-	em,uw,i			Under / upper turret wash rotor
46035	550225		-	em,uw,i			Lower pipe coupling
46040	550226		-	em,uw,i			Lower rinse axle
46045	500754		-	em,uw,i			Left wash pipe
46050	500753		-	em,uw,i			Right wash pipe
46055	500751		-	em,uw,i			Right rinse arm
46060	500752		-	em,uw,i			Left rinse arm
46065	500750		-	em,uw,i			Grey wash/rinse lower/upper distributor

em=ELECTROMECHANICAL SWITCHES, uw=LOWER AND UPPER WASHING, i=INSULATED MODEL

86K=86K

bt=BREAK TANK, bp=BOOSTER PUMP, dvgw=DVGW, cr=COLD RINSE, ws=WATER SOFTNER, dd=DETERGENT DISPENSER, dp=DRAIN PUMP

A=3/N/PE~380-400V 50-60Hz, D=3/PE~200-210V 50-60Hz, F=2/PE~220-240V 50-60Hz, G=3/N/PE~415V 50-60Hz, H=3/PE~220-230V 50-60Hz, K=3/PE~380-400V 50-60Hz, L=3/PE~415V 50-60Hz, M=3/PE~440V 60Hz, P=1/N/PE~220-230V 50-60Hz, R=2/PE~220-240V 50-60Hz, U=1/N/PE~240V 50-60Hz, V=3/PE~240V 50-60Hz, W=1/N/PE~100-110V 50-60Hz