



# Service Manual

## Side by Side

## S20B TSB21-A/G

| <b>Model<br/>Version</b> | <b>S20B TSB21-A/G<br/>8586 150 01000</b> | <b>Page</b> |
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## Technical data

### Factory Code

SB 540 W

### Dimensions

|        |       |    |
|--------|-------|----|
| Height | 177.0 | cm |
| Width  | 90.2  | cm |
| Depth  | 68.6  | cm |

### Capacity

#### Total

|       |     |   |
|-------|-----|---|
| gross | 546 | l |
| net   | 490 | l |

#### Cooling

|       |     |   |
|-------|-----|---|
| gross | 340 | l |
| net   | 335 | l |

#### Freezing

|       |     |   |
|-------|-----|---|
| gross | 206 | l |
| net   | 133 | l |

### Electrical connection

|           |           |    |
|-----------|-----------|----|
| Voltage   | 220 - 240 | V  |
| Frequency | 50        | Hz |

### Power consumption

|             |      |     |
|-------------|------|-----|
| in 24 hours | 1.37 | kWh |
|-------------|------|-----|

### Freezing capacity

|             |    |    |
|-------------|----|----|
| in 24 hours | 12 | kg |
|-------------|----|----|

### Compressor

|                    |            |   |
|--------------------|------------|---|
| Type               | EGY 90 HLC |   |
| Capacity (CECOMAF) | 174        | W |

### Refrigerant

|          |         |   |
|----------|---------|---|
| Type     | R 134 a |   |
| Quantity | 160     | g |

### Thermostat

Electronic

### Capacity (ice cube machine)

|             |     |    |
|-------------|-----|----|
| in 24 hours | 2.3 | kg |
|-------------|-----|----|

## Spare part list

**Model** S20B TSB21-A/G  
**Service No.** 858615001000  
**Version** 858615001000

| Pos. No. | 12NC Code             | Description                |
|----------|-----------------------|----------------------------|
| 012 1    | <b>4812 528 78061</b> | Roller ,rear               |
| 012 3    | <b>4812 528 78059</b> | Roller ,front              |
| 012 4    | <b>4812 395 98041</b> | Tool                       |
| 040 0    | <b>4812 417 19099</b> | Hinge ,upper               |
| 040 1    | <b>4812 417 19101</b> | Hinge ,upper               |
| 040 2    | <b>4812 417 19103</b> | Hinge ,bottom              |
| 040 4    | <b>4812 417 19104</b> | Hinge ,bottom              |
| 040 6    | <b>4812 417 19102</b> | Holder,adjust. ,bottom     |
| 047 0    | <b>4819 021 82178</b> | Bushing ,door,colling      |
| 047 1    | <b>4812 532 48035</b> | Bushing ,door,freezing     |
| 047 4    | <b>4812 440 28896</b> | Bushing ,upper             |
| 047 8    | <b>4819 528 38428</b> | Cam ,door                  |
| 070 0    | <b>4812 452 98236</b> | Plinth                     |
| 084 3    | <b>4812 404 18386</b> | Rubber ,fan motor          |
| 101 0    | <b>4812 416 18571</b> | Door,freezer               |
| 104 0    | <b>4812 416 18569</b> | Door,refriger.             |
| 105 5    | <b>4819 021 95952</b> | Bracket ,door              |
| 131 0    | <b>4819 535 98657</b> | Lever ,dispenser           |
| 131 1    | <b>4819 535 98656</b> | Lever ,icemaker            |
| 131 2    | <b>4812 440 19696</b> | Flap ,icemaker with heater |
| 131 3    | <b>4819 021 80224</b> | Hopper ,icecubes,fannel    |
| 131 4    | <b>4819 021 80208</b> | Holder ,flap               |
| 131 7    | <b>4819 021 80223</b> | Delay                      |
| 131 8    | <b>4819 021 80210</b> | Pin                        |
| 151 0    | <b>4812 418 28369</b> | Profile                    |
| 152 2    | <b>4812 418 28366</b> | Door,dairy                 |
| 153 0    | <b>4812 418 28371</b> | Flap ,door dairy           |
| 153 3    | <b>4812 418 28372</b> | Bottle shelf               |
| 153 7    | <b>4812 418 28381</b> | Holder, eggs               |
| 154 0    | <b>4812 418 28375</b> | Door,dairy                 |
| 154 1    | <b>4812 418 28374</b> | Separator                  |
| 154 2    | <b>4812 404 78552</b> | Bushing ,door dairy        |
| 154 3    | <b>4812 462 28424</b> | Stopper                    |
| 154 4    | <b>4812 418 28373</b> | Holder,bottles ,upper      |
| 154 6    | <b>4812 418 28376</b> | Holder,bottles ,bottom     |
| 154 9    | <b>4812 418 28377</b> | Door,dairy                 |
| 155 0    | <b>4819 418 79054</b> | Rack,egg                   |
| 170 0    | <b>4812 460 49293</b> | Trim ,handle,freezer       |
| 170 1    | <b>4812 460 49296</b> | Trim ,handle,cooling       |
| 170 2    | <b>4812 460 49297</b> | Trim ,door,freezing,bottom |
| 170 3    | <b>4812 460 49295</b> | Trim ,door,cooling upper   |
| 170 4    | <b>4812 460 49292</b> | Trim ,door,cooling bottom  |
| 170 5    | <b>4812 460 49298</b> | Trim ,door,freezing,left   |
| 170 6    | <b>4812 460 49291</b> | Trim ,door,cooling,right   |
| 170 9    | <b>4812 460 49294</b> | Profile ,door              |
| 176 0    | <b>4812 452 98241</b> | Panel ,door,cooling        |
| 176 1    | <b>4812 452 98238</b> | Panel ,door,freezing,upper |
| 176 2    | <b>4812 452 98239</b> | Panel ,door,freezing,upper |
| 191 0    | <b>4812 466 88644</b> | Magnetic seal ,cooling     |
| 191 1    | <b>4812 466 88645</b> | Magnetic seal ,freezing    |
| 201 7    | <b>4819 466 69949</b> | Gasket                     |
| 233 2    | <b>4812 404 48697</b> | Support ,grid              |
| 239 2    | <b>4812 440 98124</b> | Support ,flap              |
| 239 4    | <b>4812 440 69204</b> | Cover ,icemaker            |
| 239 5    | <b>4812 418 28382</b> | Ice maker                  |

| Pos. No. | 12NC Code             | Description                     |
|----------|-----------------------|---------------------------------|
| 239 7    | <b>4812 418 28368</b> | Container ,ice                  |
| 239 8    | <b>4812 418 28367</b> | Container ,ice,cpl.             |
| 241 0    | <b>4812 458 19113</b> | Basket                          |
| 241 1    | <b>4812 458 19112</b> | Basket ,bottom                  |
| 241 3    | <b>4812 440 69202</b> | Insert ,basket                  |
| 241 5    | <b>4812 460 49285</b> | Trim ,basket                    |
| 242 0    | <b>4812 418 28365</b> | Drawer ,bottom                  |
| 242 1    | <b>4812 418 28363</b> | Drawer ,upper                   |
| 242 3    | <b>4812 418 28364</b> | Drawer ,center                  |
| 245 5    | <b>4812 458 19108</b> | Grid ,upper                     |
| 245 6    | <b>4812 458 19109</b> | Grid                            |
| 245 8    | <b>4812 458 19111</b> | Basket                          |
| 245 9    | <b>4812 440 78995</b> | Tray,leak ,dispenser            |
| 249 0    | <b>4812 460 49286</b> | Trim                            |
| 249 1    | <b>4812 460 49283</b> | Trim                            |
| 249 2    | <b>4812 460 49284</b> | Trim                            |
| 249 3    | <b>4812 460 49287</b> | Trim                            |
| 249 4    | <b>4812 460 49282</b> | Trim                            |
| 249 9    | <b>4812 460 49288</b> | Trim                            |
| 251 0    | <b>4812 380 28027</b> | Lampholder ,cooling             |
| 251 1    | <b>4812 440 98122</b> | Cover f. lamp ,cooling          |
| 251 4    | <b>4812 404 18387</b> | Gasket ,lamp                    |
| 251 5    | <b>4812 460 49289</b> | Trim                            |
| 251 8    | <b>4812 380 28028</b> | Lid, lamp                       |
| 251 9    | <b>4812 440 98125</b> | Cover f. lamp ,freezer          |
| 252 0    | <b>4812 440 29367</b> | Reflector ,lamp                 |
| 253 1    | <b>4812 462 79645</b> | Cover Switch                    |
| 255 1    | <b>4812 450 88094</b> | Glass shelf                     |
| 255 4    | <b>4812 450 88095</b> | Glass shelf                     |
| 255 5    | <b>4812 450 88096</b> | Glass shelf                     |
| 255 7    | <b>4812 418 28359</b> | Frame ,glassplate               |
| 255 8    | <b>4812 418 28361</b> | Frame ,glassplate               |
| 255 9    | <b>4812 418 28362</b> | Frame ,glassplate               |
| 256 0    | <b>4812 460 58384</b> | Slide ,air inlet                |
| 256 5    | <b>4819 466 98997</b> | Rail ,air inlet                 |
| 261 0    | <b>4812 462 38139</b> | Slide ,right                    |
| 261 1    | <b>4812 462 38138</b> | Slide ,left                     |
| 263 7    | <b>4812 460 98041</b> | Guide ,icemaker                 |
| 263 8    | <b>4812 404 48702</b> | Stud                            |
| 263 9    | <b>4812 404 48701</b> | Stud                            |
| 304 0    | <b>4812 418 88995</b> | Support ,electrical parts       |
| 320 0    | <b>4812 453 10067</b> | Control cover ,elektronik board |
| 324 6    | <b>4812 442 29167</b> | Air diffuser                    |
| 400 0    | <b>4812 028 58341</b> | Motor ,ice conveyor             |
| 402 0    | <b>4812 360 38812</b> | Compressor EGY 90 HLC           |
| 402 1    | <b>4812 418 28378</b> | Cup,thaw water                  |
| 402 4    | <b>4819 492 68712</b> | Clip,fix f.compressor           |
| 406 2    | <b>4812 440 89009</b> | Housing ,icemaker               |
| 406 3    | <b>4812 492 98032</b> | Spring ,icemaker                |
| 406 6    | <b>4812 440 79024</b> | Support ,motor                  |
| 406 7    | <b>4812 440 79023</b> | Cover                           |
| 406 8    | <b>4812 530 88024</b> | Shaft gear                      |
| 407 0    | <b>4812 404 78554</b> | Fastener                        |
| 407 1    | <b>4812 404 48823</b> | Bushing                         |
| 420 0    | <b>4812 120 28023</b> | Capacitor                       |

## Spare part list

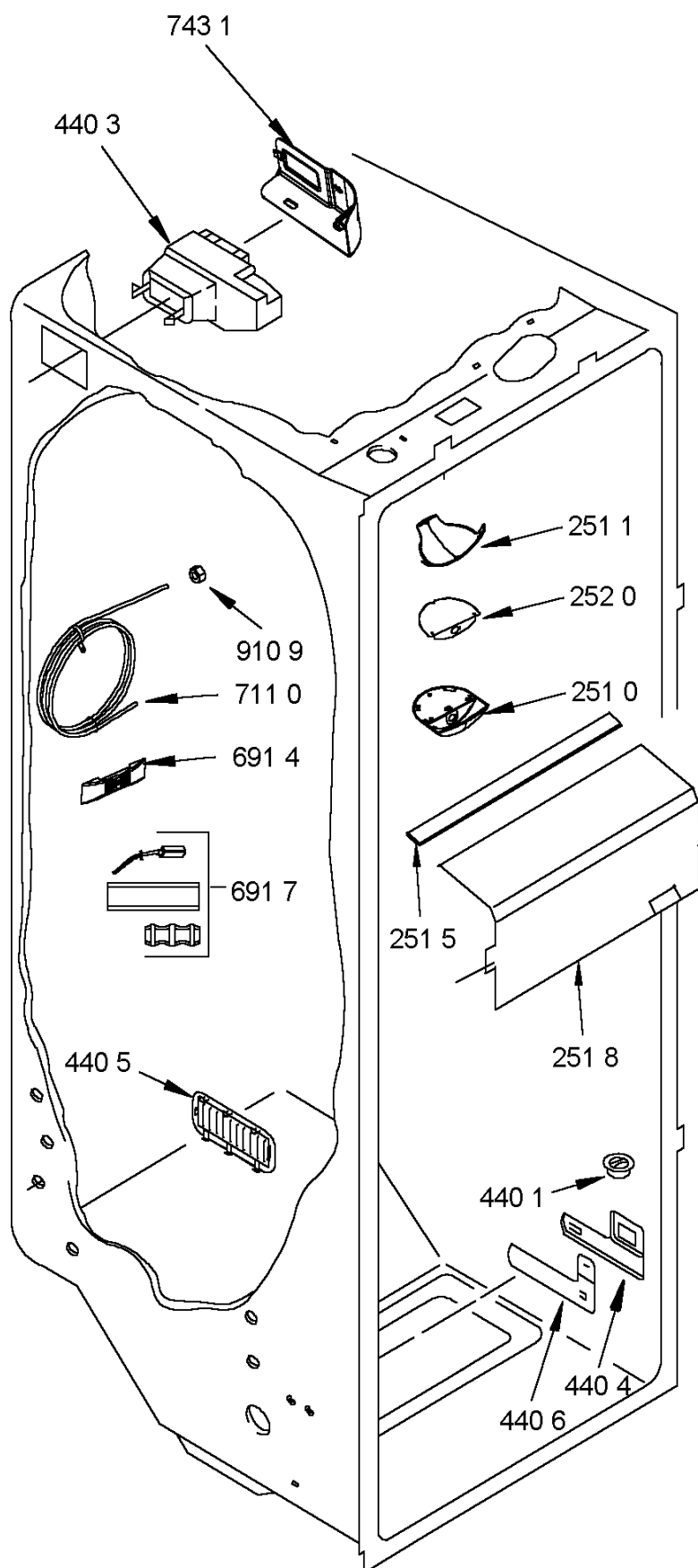
**Model**  
**Service No.**  
**Version**

**S20B TSB21-A/G**  
**858615001000**  
**858615001000**

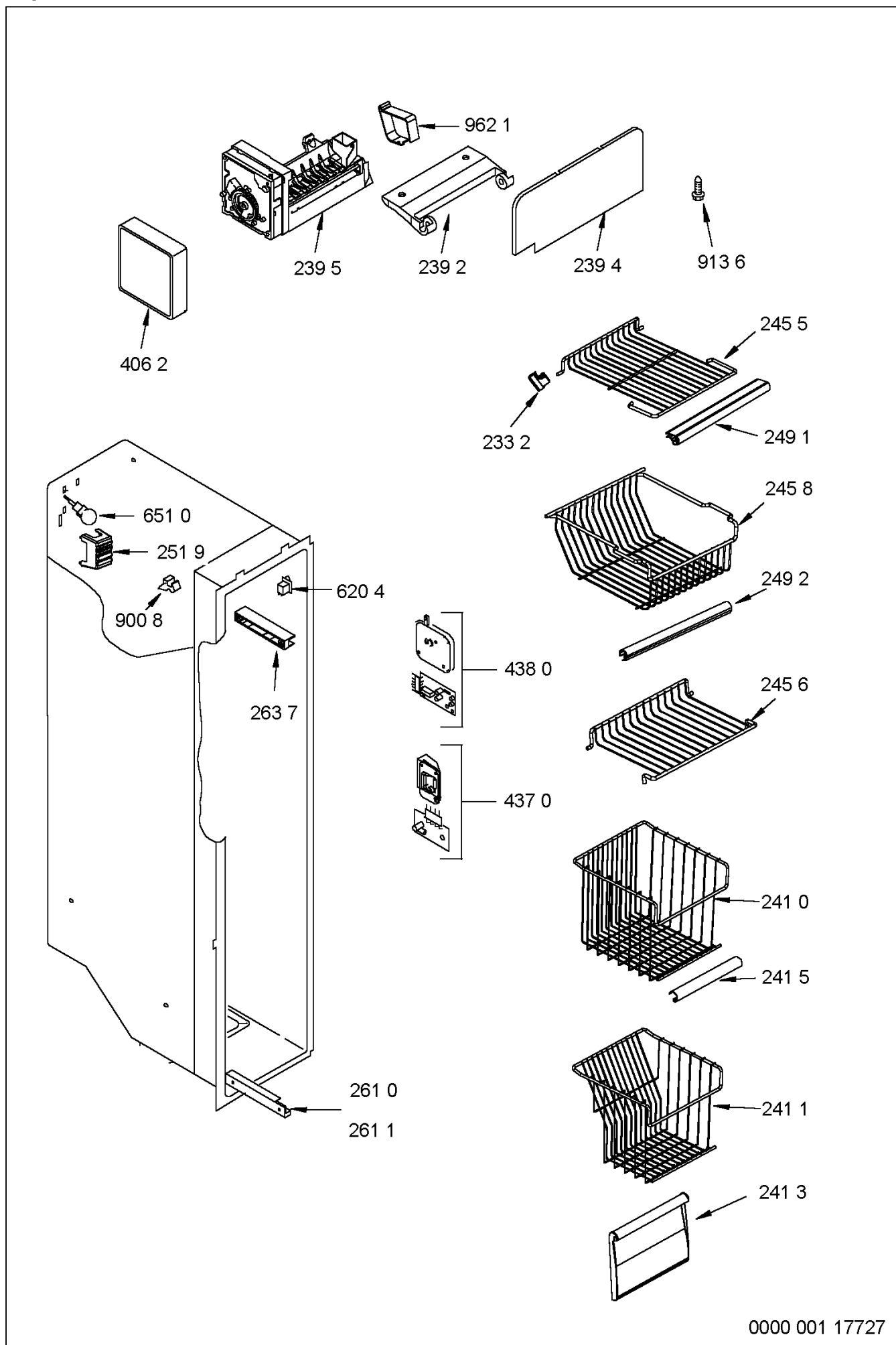
| Pos. No. | 12NC Code             | Description                       |
|----------|-----------------------|-----------------------------------|
| 420 3    | <b>4819 021 58826</b> | Damper                            |
| 420 4    | <b>4812 442 29019</b> | Insulator                         |
| 437 0    | <b>4812 218 48049</b> | Sensor ,emitter                   |
| 438 0    | <b>4812 217 78136</b> | Receiver                          |
| 440 1    | <b>4819 360 58609</b> | Valve                             |
| 440 3    | <b>4812 445 28021</b> | Air diffuser , + motor            |
| 440 4    | <b>4812 462 38141</b> | Slide                             |
| 440 5    | <b>4819 021 82147</b> | Grid,air                          |
| 440 6    | <b>4819 462 38778</b> | Slide                             |
| 440 7    | <b>4812 452 98237</b> | Insulator ,condenser              |
| 441 0    | <b>4812 028 58339</b> | Motor                             |
| 441 1    | <b>4819 462 48418</b> | Grommet ,compressor               |
| 441 2    | <b>4812 440 68962</b> | Support ,right                    |
| 441 5    | <b>4812 440 68963</b> | Support ,left                     |
| 442 0    | <b>4812 361 38067</b> | Motor,fan                         |
| 442 1    | <b>4819 404 78682</b> | Bracket                           |
| 443 0    | <b>4819 515 48057</b> | Fan blade                         |
| 443 1    | <b>4812 440 79018</b> | Holder , ventilator               |
| 451 0    | <b>4819 021 88177</b> | Element defrost                   |
| 451 1    | <b>4819 401 18692</b> | Clamp                             |
| 491 0    | <b>4812 290 88087</b> | Cover ,connection block           |
| 526 2    | <b>4812 440 79019</b> | Control board + housing           |
| 526 5    | <b>4812 440 29368</b> | Lid ,electronic box               |
| 561 0    | <b>4812 280 68359</b> | Overload prot.                    |
| 561 2    | <b>4812 440 79022</b> | Cover ,overload                   |
| 562 0    | <b>4812 320 58132</b> | Cable harness ,Bi-metal thermo.   |
| 571 0    | <b>4812 360 58283</b> | Valve , inlet                     |
| 614 0    | <b>4812 290 68262</b> | PTC-Unit                          |
| 620 1    | <b>4812 277 88002</b> | Switch                            |
| 620 4    | <b>4819 276 18157</b> | Switch ,light                     |
| 621 0    | <b>4819 271 38044</b> | Microswitch ,icemaker + dispenser |
| 626 1    | <b>4819 442 78119</b> | Flap                              |
| 651 0    | <b>4812 134 28078</b> | Lamp                              |
| 651 2    | <b>4812 134 28077</b> | Lamp ,dispenser unit              |
| 652 4    | <b>4819 021 80200</b> | Holder,lamp ,dispenser            |
| 691 4    | <b>4812 404 78553</b> | Support ,sensor                   |
| 691 7    | <b>4812 310 18846</b> | Sensor KIT                        |
| 701 0    | <b>4819 526 48444</b> | Coupling piece ,icl.hose          |
| 702 0    | <b>4812 530 29195</b> | Hose                              |
| 711 0    | <b>4812 530 28999</b> | Reservoir                         |
| 740 0    | <b>4812 511 38215</b> | Condenser                         |
| 743 1    | <b>4812 440 98121</b> | Cover ,air diffuser               |
| 745 0    | <b>4812 360 38648</b> | Evaporator                        |
| 745 2    | <b>4812 440 79025</b> | Cover ,evaporator                 |
| 745 4    | <b>4819 492 68684</b> | Clip                              |
| 745 6    | <b>4819 021 49294</b> | Heat shield ,evaporator           |
| 746 1    | <b>4812 404 48822</b> | Air guide                         |
| 746 2    | <b>4812 440 69203</b> | Cover ,evaporator                 |
| 746 3    | <b>4812 440 98062</b> | Gasket ,air guide                 |
| 764 0    | <b>4819 480 28144</b> | Dryer                             |
| 781 0    | <b>4812 262 78009</b> | Cap ,water filter                 |
| 781 1    | <b>4812 535 48013</b> | Clutch ,waterhose                 |
| 781 3    | <b>4812 530 29157</b> | Adapter hose ,3/4"                |
| 781 7    | <b>4812 466 88646</b> | Clutch ,icemaker                  |
| 781 8    | <b>4812 817 28986</b> | Filter ,water SxS                 |

| Pos. No. | 12NC Code             | Description                         |
|----------|-----------------------|-------------------------------------|
| 781 9    | <b>4812 418 28379</b> | Filter body                         |
| 783 1    | <b>4812 360 68491</b> | Hose ,icemaker                      |
| 783 8    | <b>4812 530 29159</b> | Hose, inlet                         |
| 783 9    | <b>4812 530 29158</b> | Hose,connection ,filter/inlet valve |
| 785 0    | <b>4812 530 29162</b> | Tube                                |
| 900 5    | <b>4819 492 68544</b> | Clip,fix                            |
| 900 7    | <b>4819 492 68683</b> | Clip ,heating element               |
| 900 8    | <b>4819 492 69522</b> | Clip                                |
| 910 9    | <b>4819 505 18249</b> | Nut ,water reservoir                |
| 911 7    | <b>4819 505 18256</b> | Nut ,icemaker hose                  |
| 912 4    | <b>4812 560 18063</b> | Screw                               |
| 912 5    | <b>4812 560 18064</b> | Screw                               |
| 913 2    | <b>4812 560 18013</b> | Screw ,freezer door                 |
| 913 3    | <b>4812 560 18011</b> | Screw ,freezer door                 |
| 913 4    | <b>4812 500 18094</b> | Spindle ,thread,front               |
| 913 5    | <b>4812 500 18093</b> | Spindle ,thread,rear                |
| 913 6    | <b>4819 004 89478</b> | Screw ,icemaker                     |
| 913 7    | <b>4812 502 18578</b> | Screw                               |
| 930 0    | <b>4819 021 80209</b> | Spring ,icemaker                    |
| 930 1    | <b>4819 021 94719</b> | Rail                                |
| 930 2    | <b>4812 418 88043</b> | Strain relief                       |
| 962 1    | <b>4812 440 79026</b> | Cover , Cable harness               |

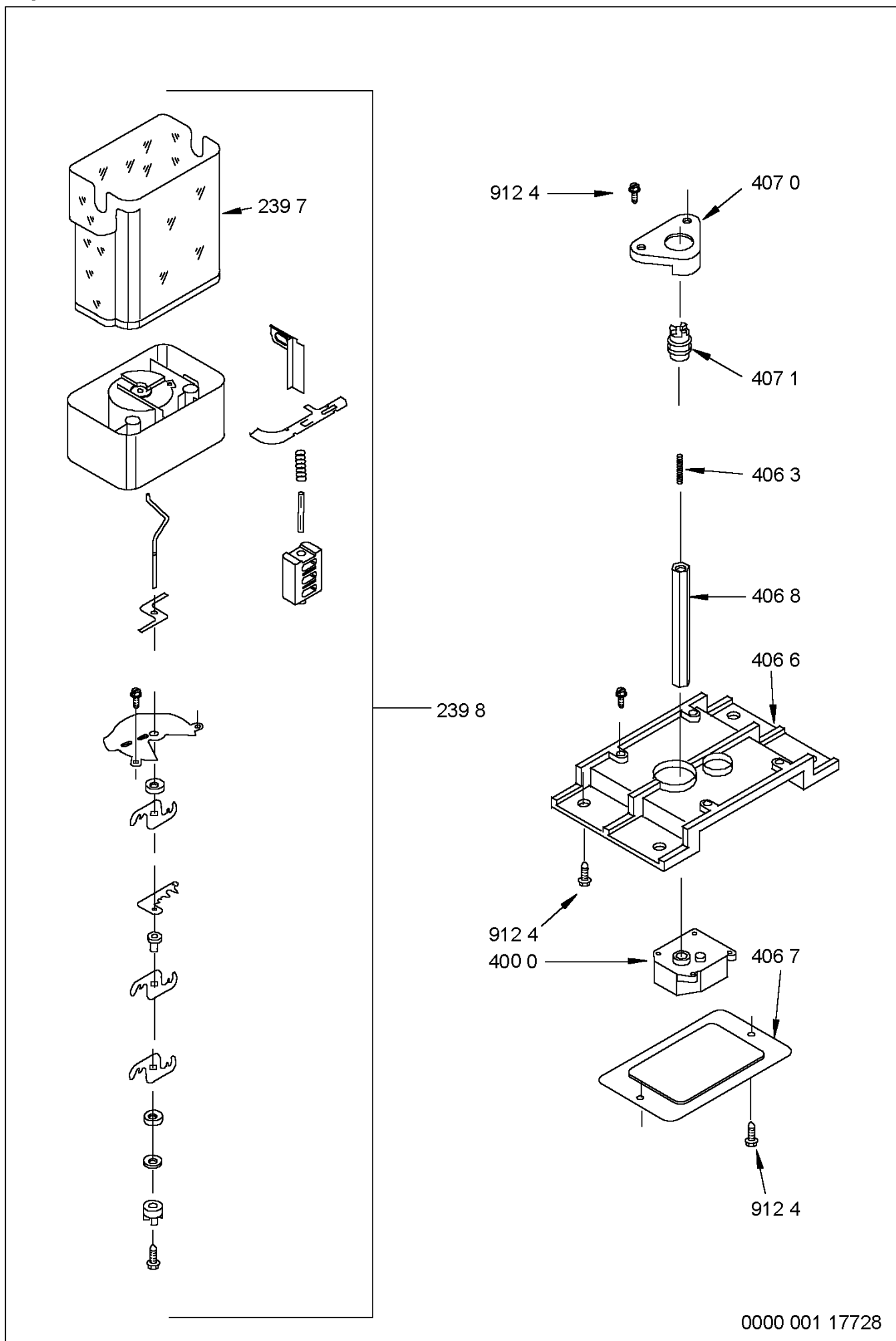
## Exploded view



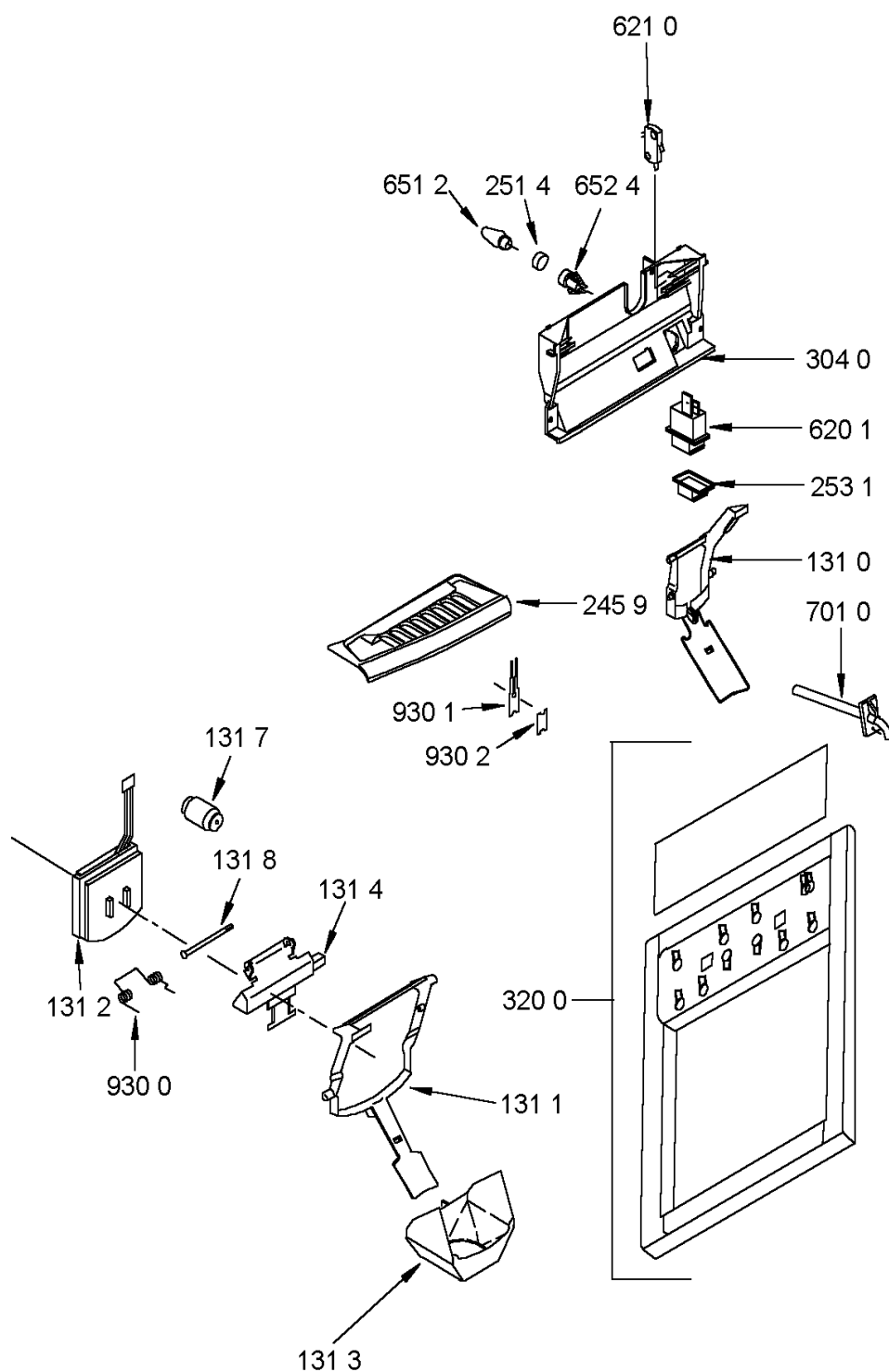
## Exploded view



## Exploded view

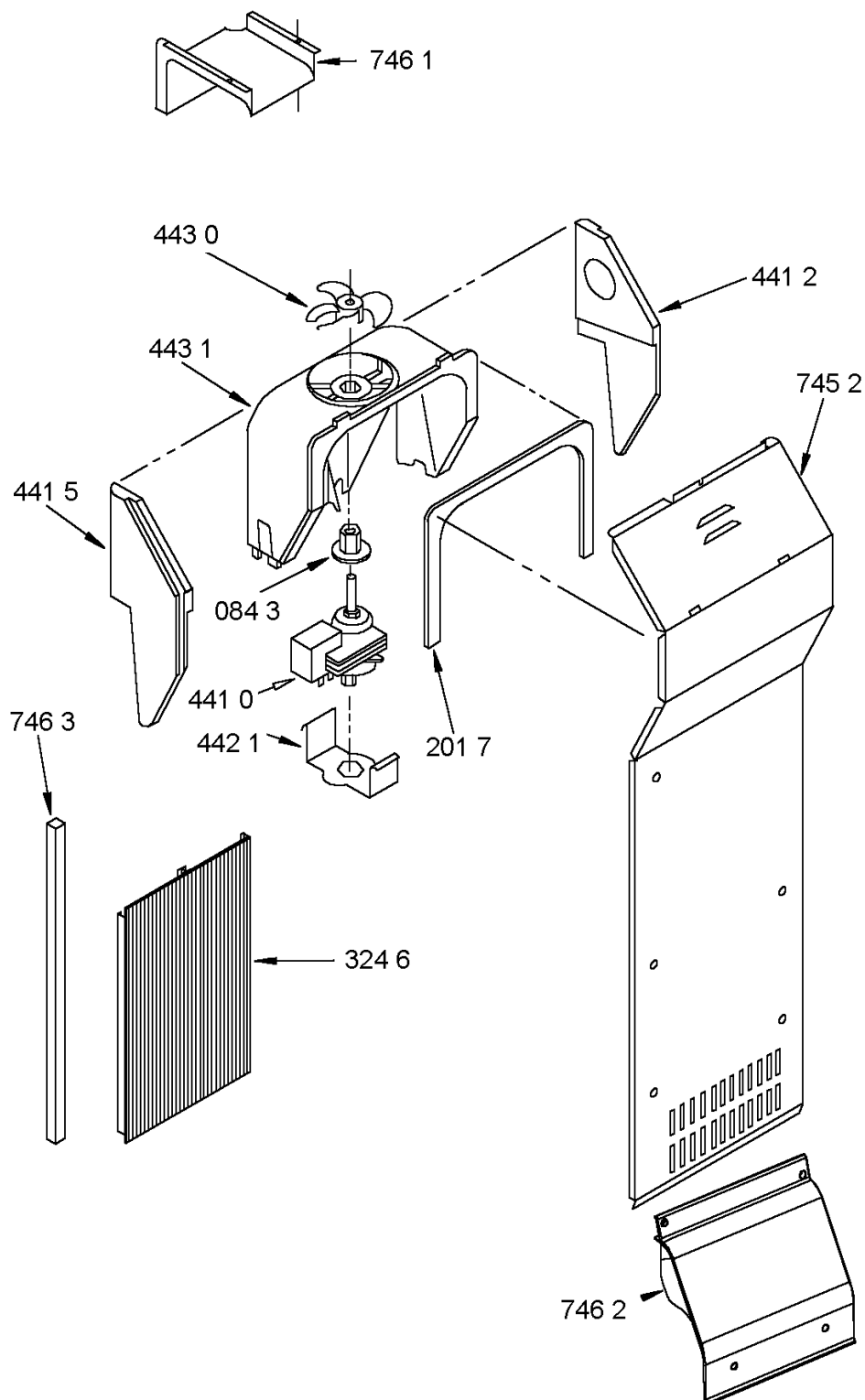


### Exploded view

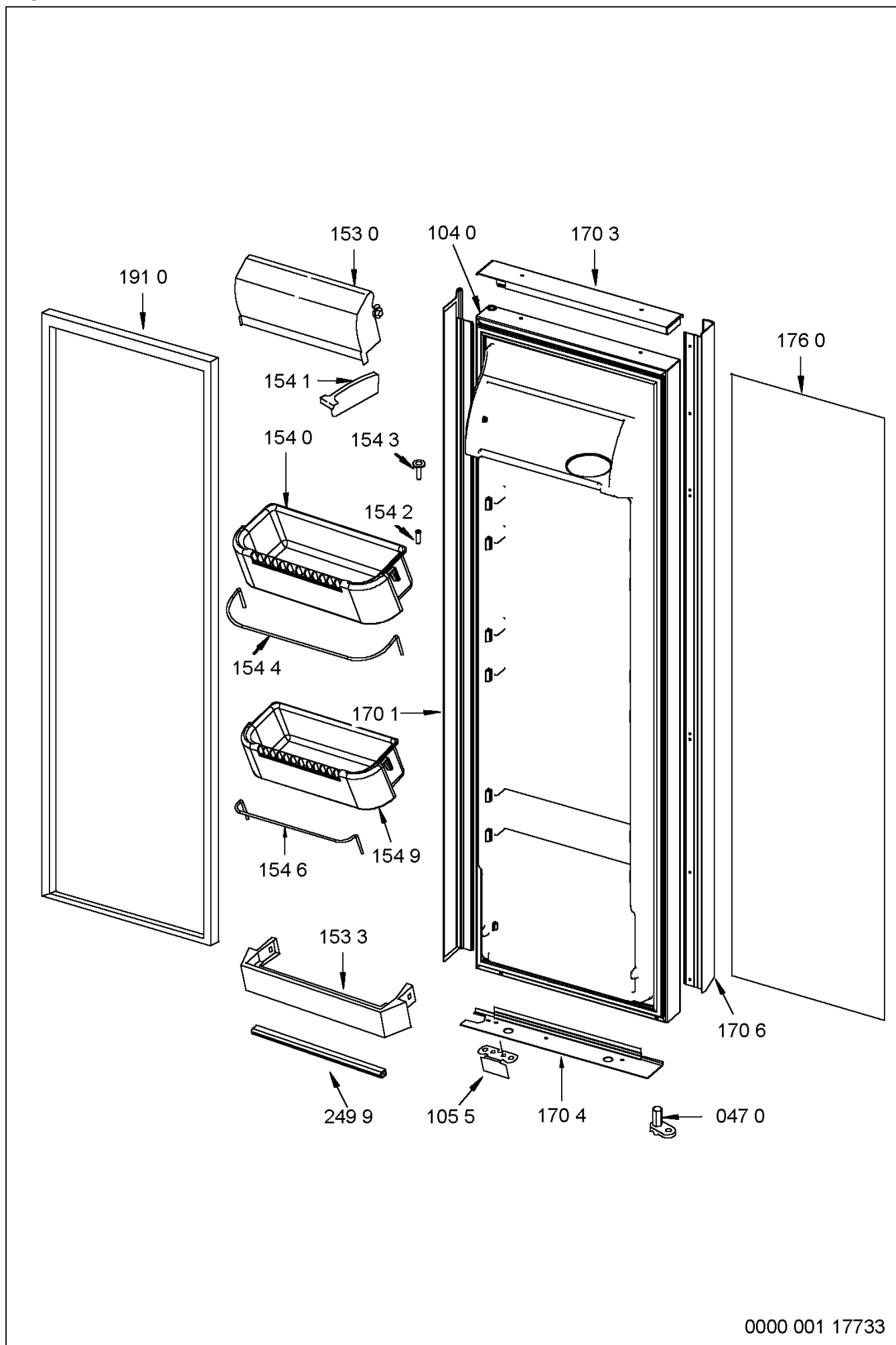




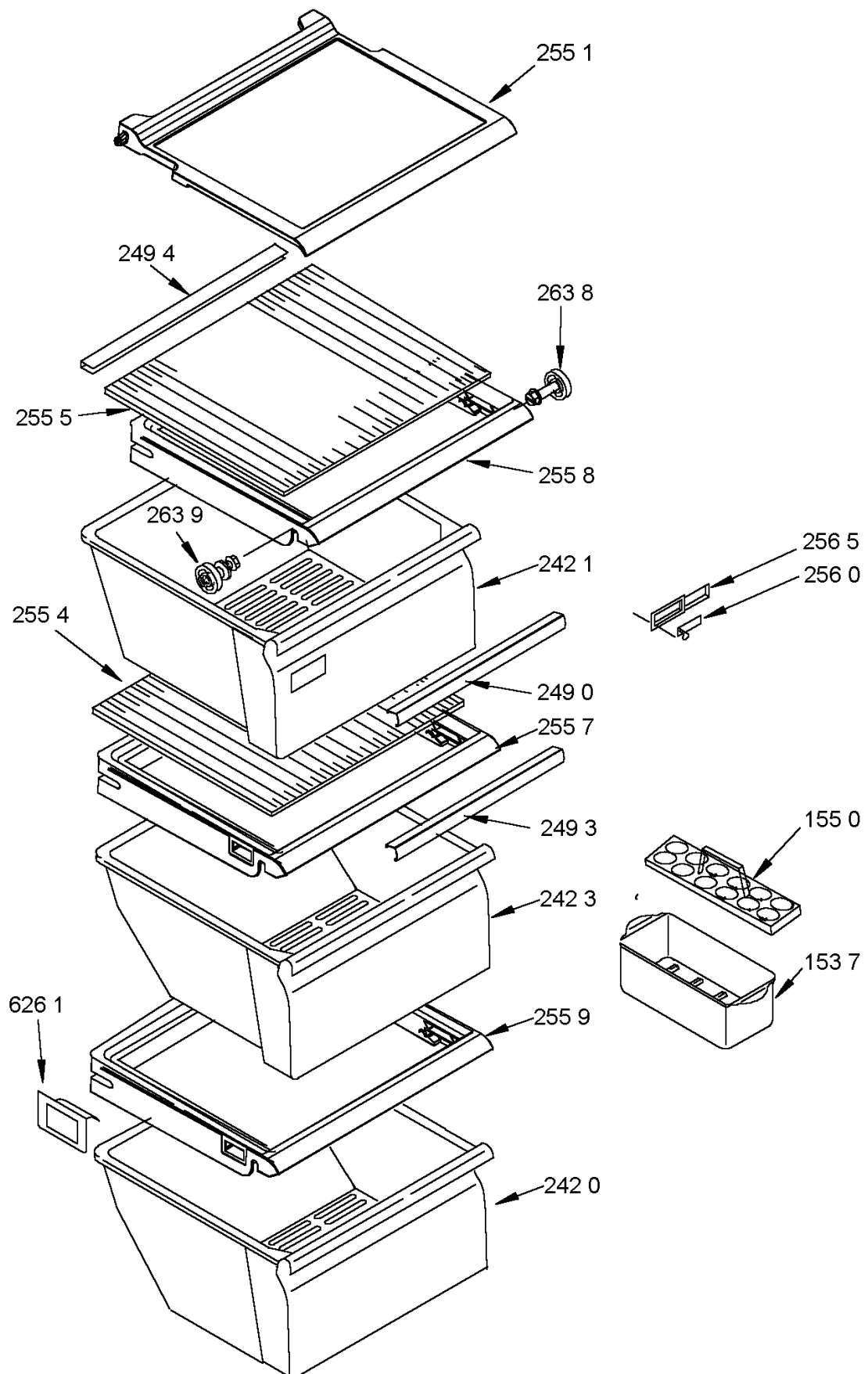
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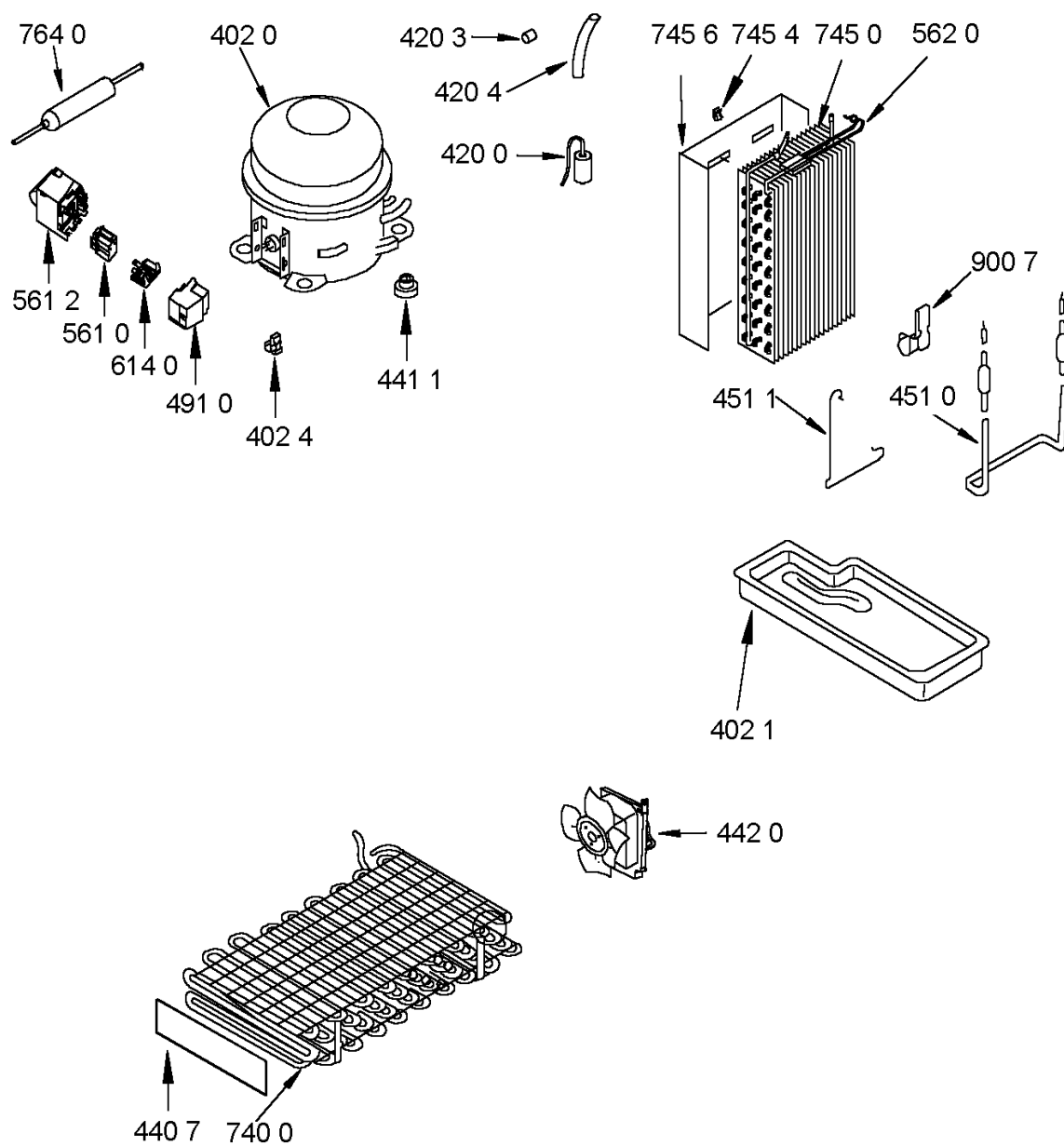
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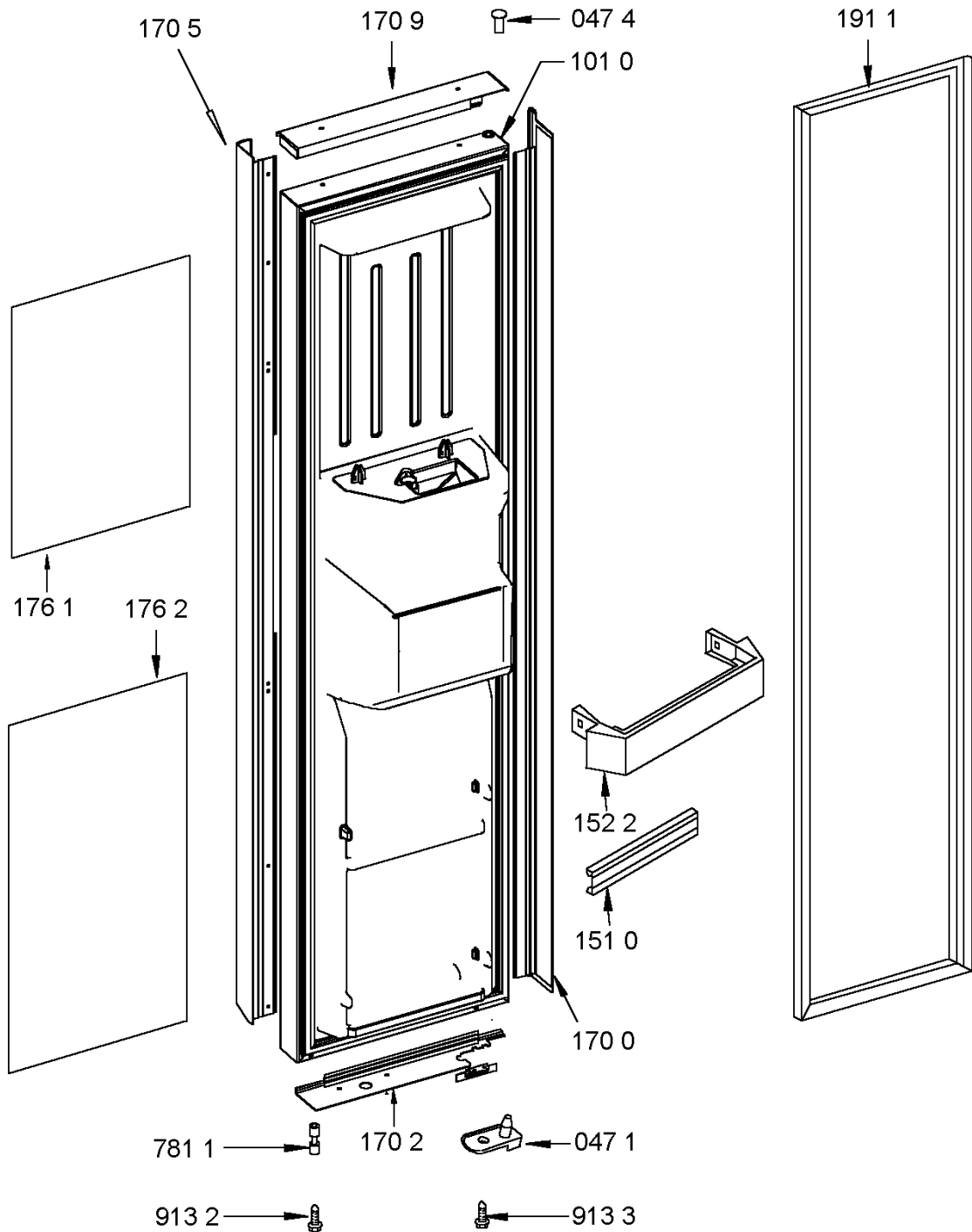
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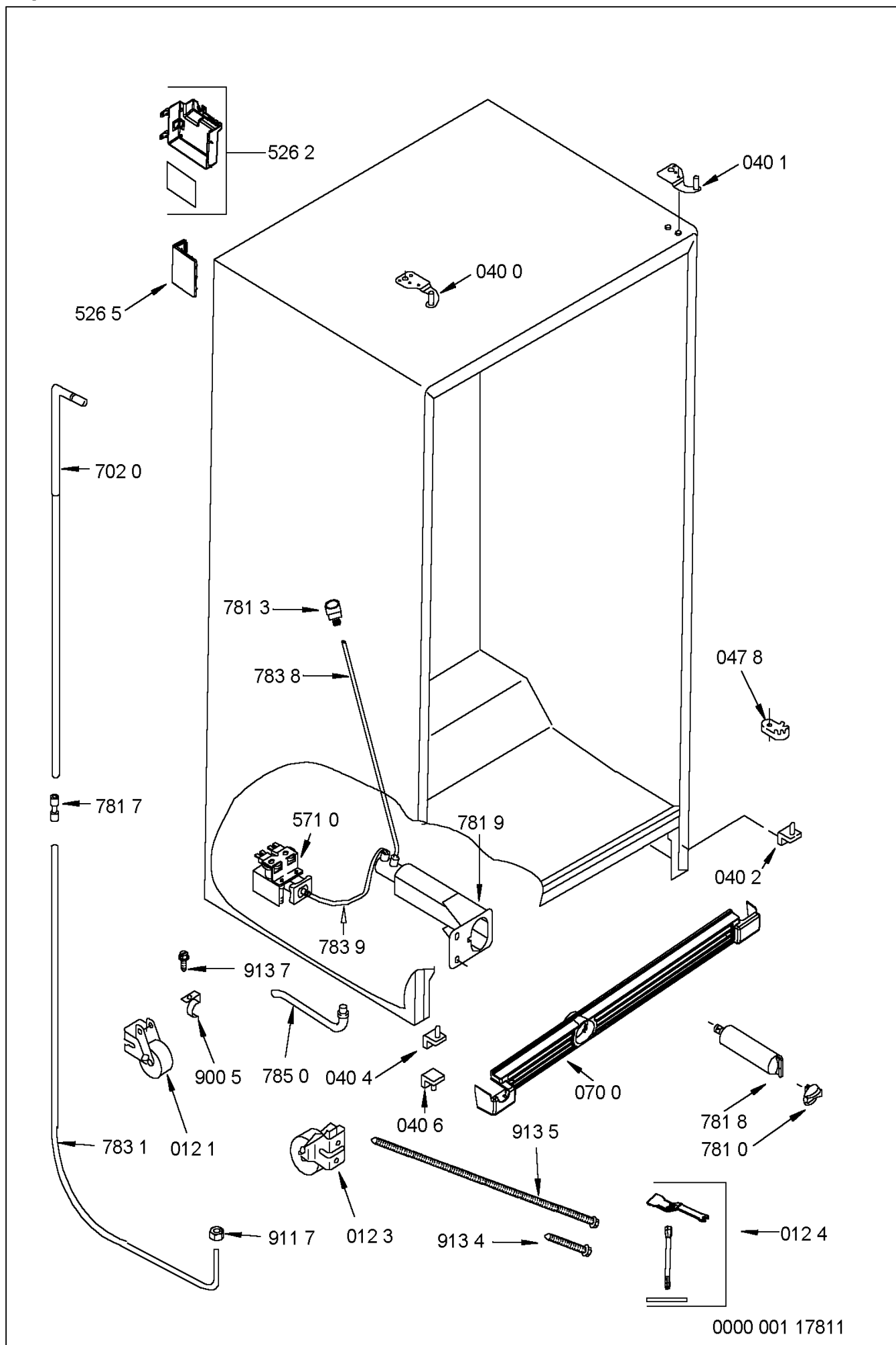
## Exploded view



## Exploded view



## Exploded view



## Circuit and Wiring diagram

- 00 BLACK  
11 BROWN  
22 RED  
33 ORANGE  
66 BLUE  
77 VIOLET  
88 BLUE-SKY  
99 WHITE  
45 YELLOW-GREEN
- A PLUG  
B MAIN CONNECTING BLOCK  
D REFRIGERATOR COMPRESSOR  
FI P.T.C.  
G OVERLOAD PROTECTOR  
H4 BIMETAL + THERMOFUSE  
K ELECTRIC CLAPET  
J1 RUNNING CAPACITOR  
L1 FREEZING HEATER  
L4 DOOR HEATER  
L5 HEATER  
L7 ICE-DISPENSER HEATER  
M ELECTRIC MOTOR  
N FAN-MOTOR  
P PUSH-SWITCH  
O LAMP  
S SWITCH  
T1 ELECTRONIC MODULE  
U1 REFRIGERATOR SENSOR  
U2 FREEZER SENSOR  
W ELECTROVALVE  
Y1 GENERATOR  
Z ICE MAKER  
X EARTH

