Atosa MBF8501GR - Diagrams and Parts Detail

Equipment: Atosa MBF8501GR one-door reach-in freezer
Unit referenced: Serial AUS100318100800C; approximately October 2018 manufacture

Key parts in the 2018-era exploded diagrams:

- Door switch: W0308012, Top Panel Assembly, item 3
- Evaporator fan motor: W0301904, Evaporator Assembly, item 12
- Evaporator fan bracket: 80021501, item 11
- Evaporator fan blade: W0301059, item 13
- Evaporator front cover: 85011206, item 16
- Evaporator fan motor cover/shroud: W0409080, item 17

Important revision note:
The September 2024 official Atosa top-panel diagram shows a newer gray magnetic door switch, W0409161. The included 2018-era diagram shows the white mechanical W0308012 switch. Confirm the physical switch on the freezer and verify by serial number before ordering.

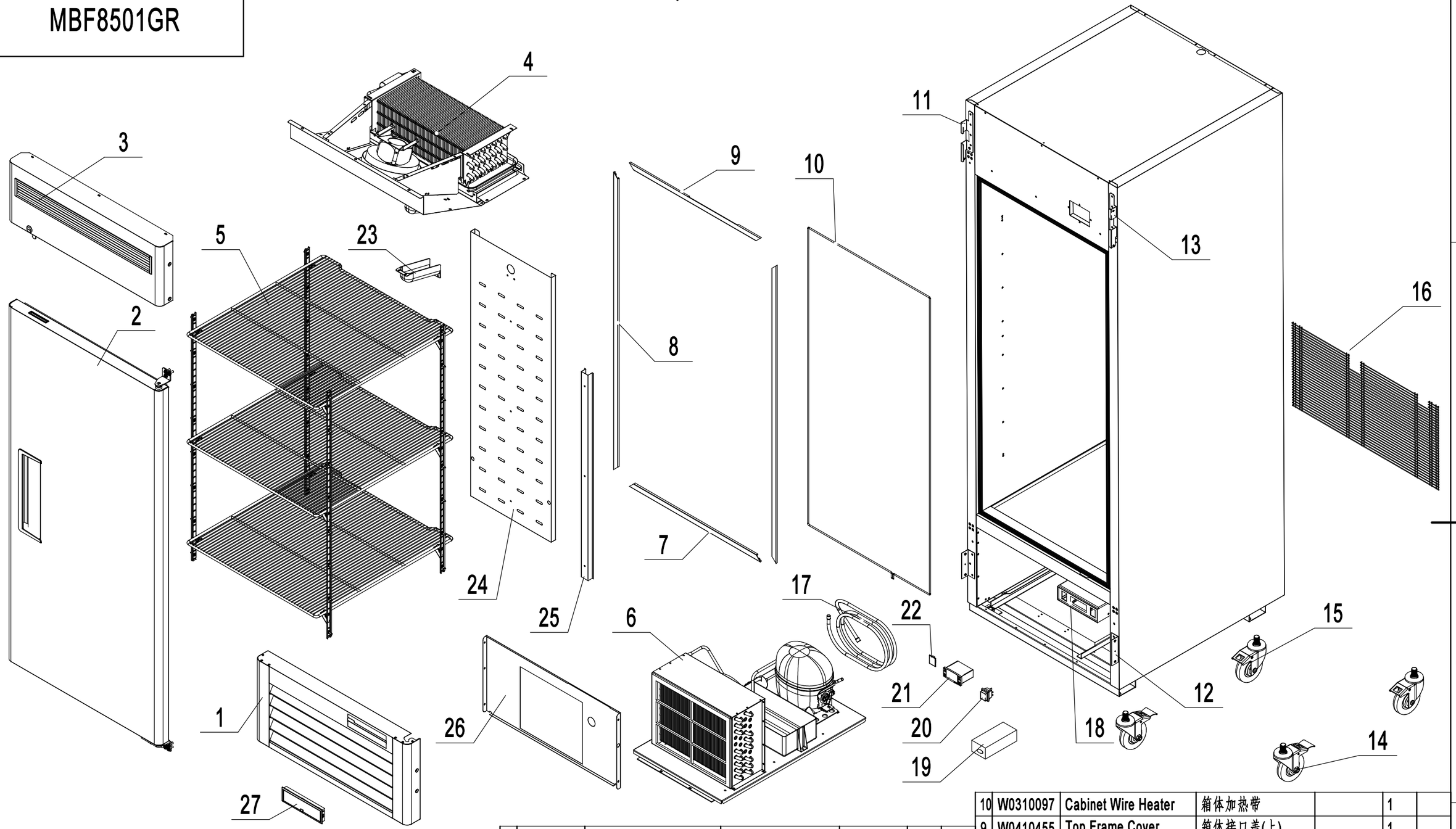
Packet contents:

1. Complete 2018-era MBF8501GR exploded-parts breakdown (6 pages)
2. September 2024 Atosa top-panel and evaporator-assembly diagrams
3. General MBF reach-in configuration sketch and freezer electrical-control diagram

Sources

Official 2024 parts: https://atosausa.com/wp-content/uploads/2023/10/MBF8501GR.pdf
2018-era parts: https://manuals.plus/m/4c509b1b505fadba4cec82e947edcdb65471ef82edec78c9f396a840a96cdc83.pdf
Operation manual: https://www.atosausa.com/manuals/ATSA-MBF8001_iom.pdf

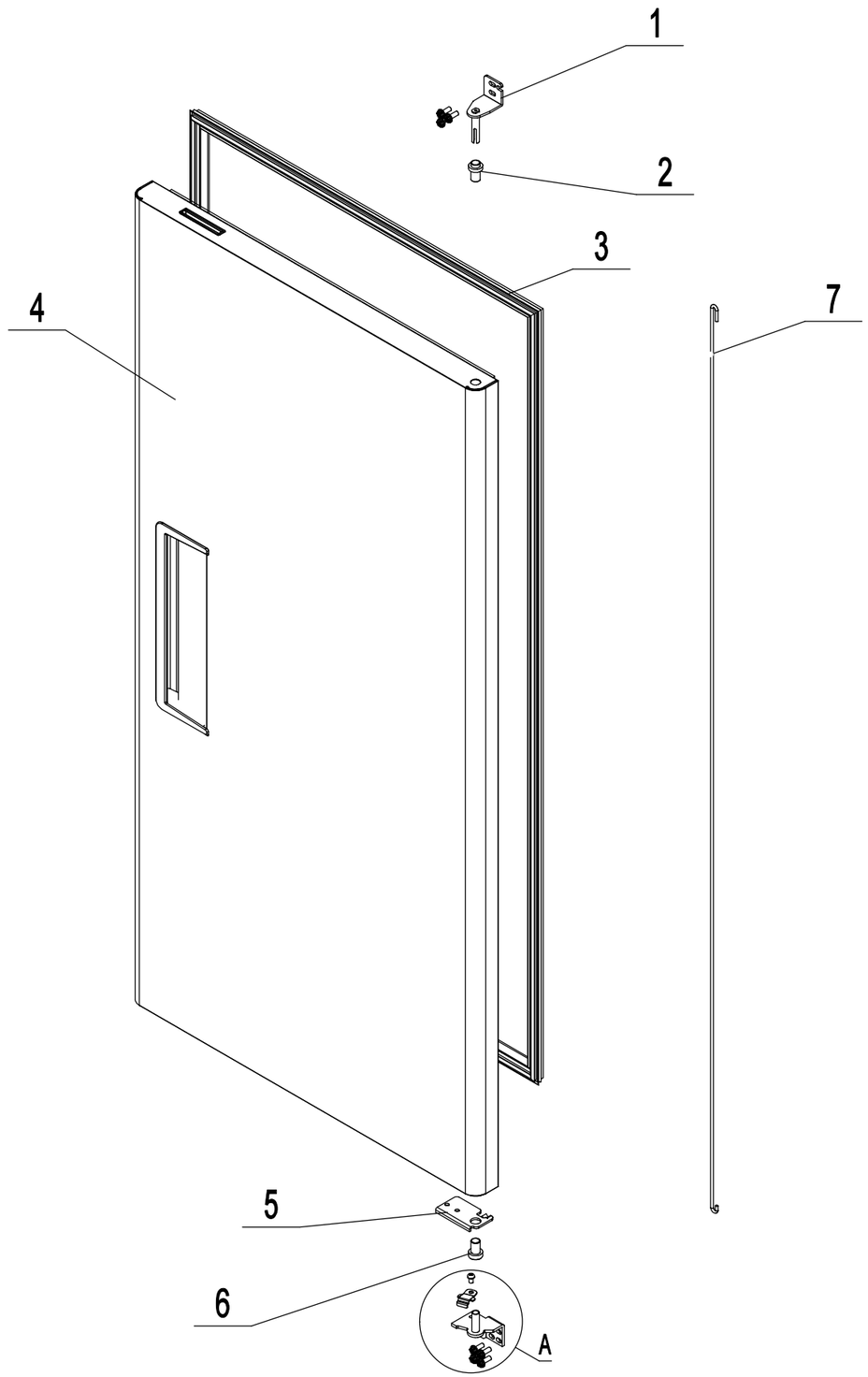
MBF8501GR

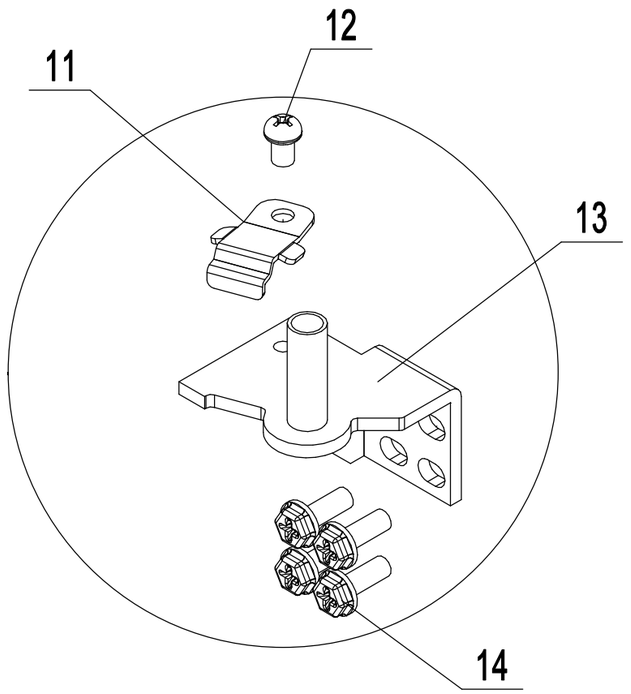


序号	Material code	English Name	Chinese Name	MATERIAL	QUANTITY	Remark
10	W0310097	Cabinet Wire Heater	箱体加热带		1	
9	W0410455	Top Frame Cover	箱体接口盖(上)		1	
8	W0410446	Left-Right Frame Cover	箱体接口盖(左)(右)		2	
7	W0410456	Bottom Frame Cover	箱体接口盖(下)		1	
6	85010453	Comp&Cond Assembly	冷凝机组		1	
5	85010452	Shelf Assembly	食品架组件		1	
4	85010451	Evaporator Assembly	蒸发机组		1	
3	85010450	Top Panel Assembly	上前罩组件		1	
2	85010402	Door Assembly	门体组件		1	
1	85010420	Bottom Panel	下罩板		1	

27	W0409882	Controller Cover	温控前翻盖组件		1		17	W0210616	Low Presure Coil Back to Comp	回气管(B)		1
26	85011901	Wind deflector unit	机组挡风板	GI	1		16	W0402273	Back Bottom Barriar	保护网		1
25	80011041	Back wind deflector stents	后背导风板支架		1		15	B0604413	4" Castor Without Brake	4吋重磅万向轮（脚轮）		2
24	80011042	Back wind deflector	后背导风板		1		14	B0604421	4" Castor With Brake	4寸带刹车重磅万向轮[刹定向]		2
23	W0409081	A drain protection	排水管保护件	ABS	1		13	85041609	Right Fastener For Top Panel	前罩板(右)(上)固定件		1
22	W0409884	Switch plug	开关堵头	ABS	1		12	85041801	Fastener For Bottom Panel	下罩板固定件		2
21	W0302162	Digital Controller	冷冻温控器(蓝色数码显示)		1	120V	11	85041610	Left Fastener For Top Panel	前罩板(左)(上)固定件		1
20	W0308019	Power Switch	电源开关		1							
19	W0399115	LED Power	LED灯电源	15W	1							
18	W0409883	Controller Braket	温控支架		1							

85010402

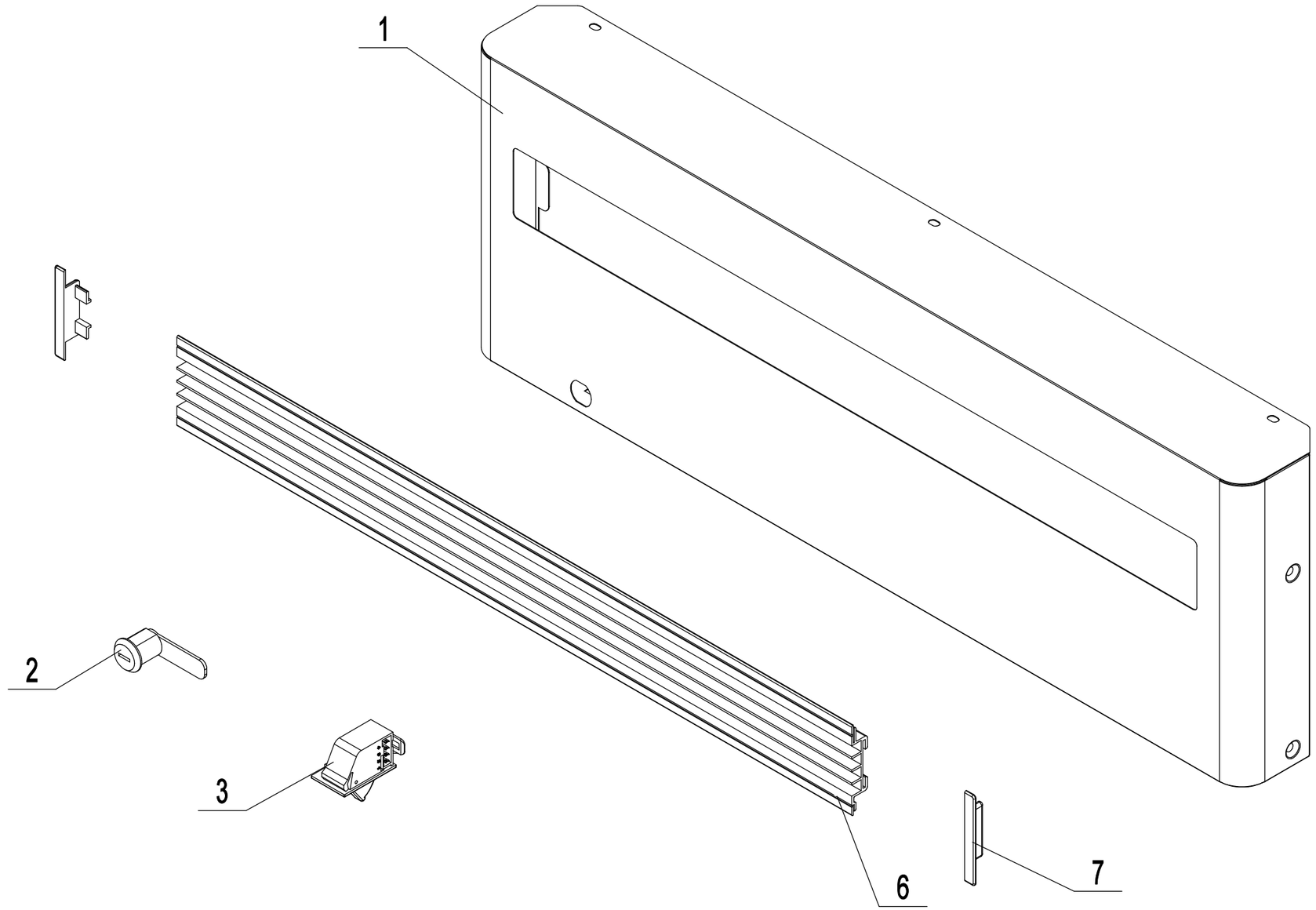




局部放大图A

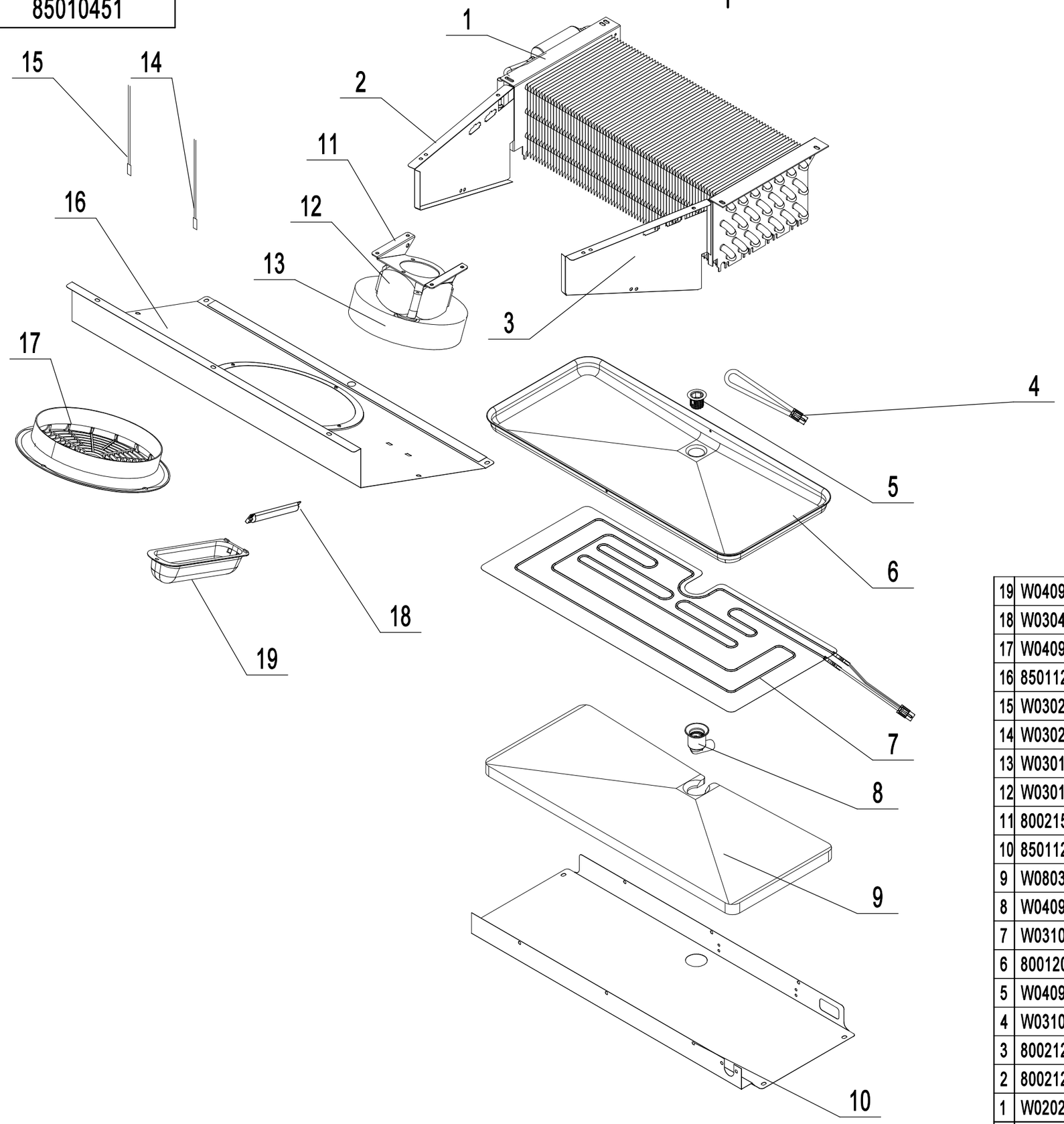
14	B0506044	Screw M6x16	M6x16十字槽六角头螺栓		7	
13	W0604024	Right-Bottom Hinge	右下铰链	SUS304	1	
12	B0599270	SS Screw M6x8	M6x8不锈钢螺丝		1	
11	W0604038	Door Brake-Bottom	门自锁装置-下	SUS304	1	
7	W0604401	Door Spring Bar	门体发条		1	
6	W0409843	Door Shaft Sleeve-Bottom	门体轴套	PA66	1	
5	W0604030	Door Brake -Right	门自锁装置-右	SUS304	1	
4	85010201	Right Door	右门体		1	
3	W0404601	Door Gasket	门封条		1	
2	W0409842	Door Shaft Sleeve-Top	门体轴套	PA66	1	
1	W0604022	Right-Top Hinge	右上铰链	SUS304	1	
序号	Material code	English Name	Chinese Name	MATERIAL	QUAMTITY	Remark

85010450



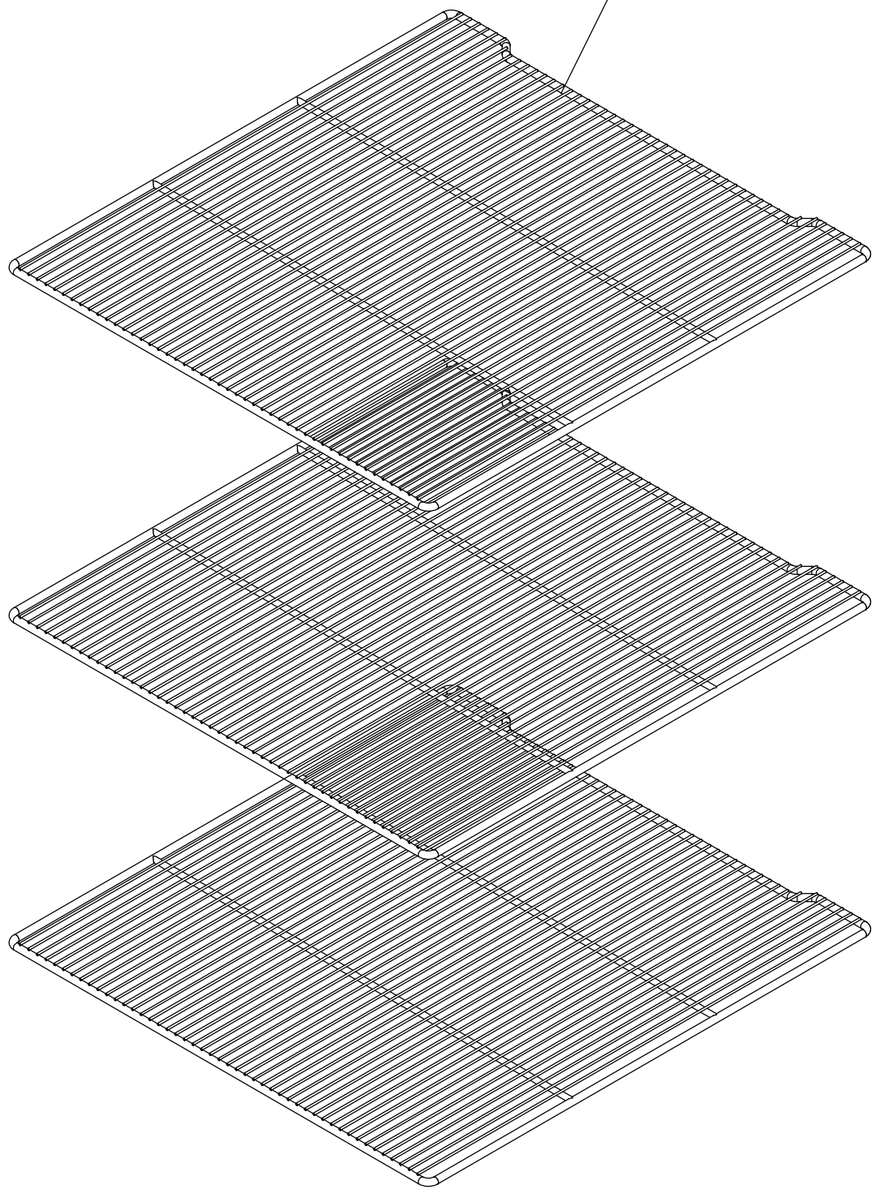
序号	Material code	English Name	Chinese Name	MATERIAL	QUANTITY	Remark
7	W0409272	Black Grille Clip	前罩板饰条端板	ABS	2	
6	W0410351	Black Grille	前罩板饰条	PVC	1	
3	W0308012	Door Switch	右门体开关(单刀双掷)		2	
2	W0604007	Lock	冰箱锁		1	
1	85011414	Top Panel	上前罩板	SUS430	1	

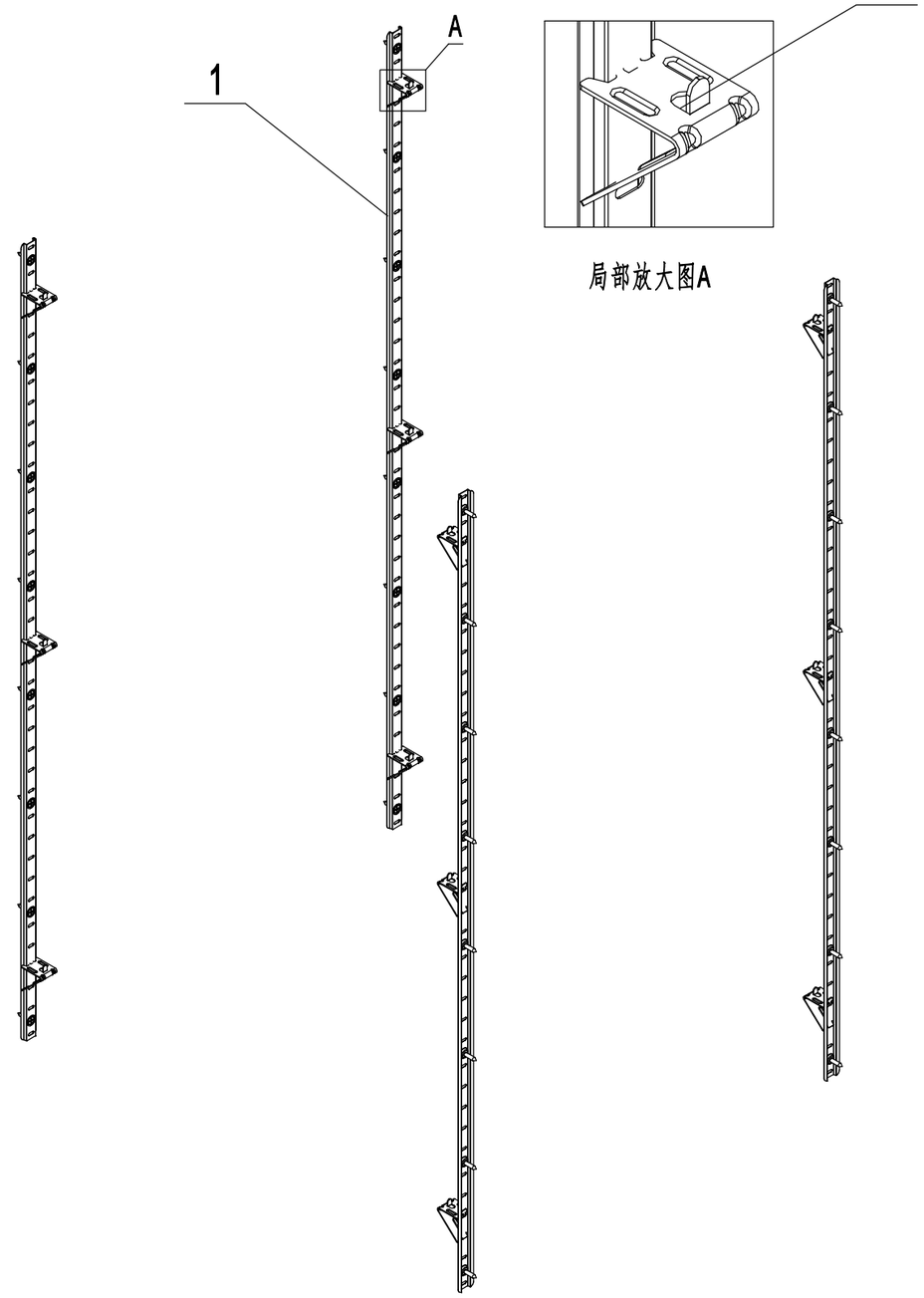
85010451



序号	Material code	English Name	Chinese Name	MATERIAL	QUANTITY	Remark
19	W0409863	Lamp Cover	灯罩	PC1302	1	
18	W0304086	Lamp	灯		1	
17	W0409080	Evap Fan Motor Cover	蒸发风机罩	ABS	1	
16	85011206	Evap Front Cover	蒸发前盖板	SUS430	1	
15	W0302305	Evap Temp Probe	化霜探头		1	
14	W0302304	Room Temp Probe	感温探头		1	
13	W0301059	Evap Fan Blade	蒸发风叶	AL/Ø172	1	
12	W0301904	Eavp Fan Motor	蒸发风机		1	
11	80021501	Evap Fan Braket	蒸发风机支架	SUS304	1	
10	85011205	Drain Pan Cover	蒸发后盖板	SUS430	1	
9	W0803011	Drain Pan Foam	接水盘泡沫	EPS	1	
8	W0409858	Drain Hose Connector A	排水管连接器A	PA66	1	
7	W0310075	Drain Pan Heater	接水盘加热带		1	
6	80012001	Drain Pan	铝制接水盘	AL	1	
5	W0409859	Drain Hose Connector B	排水管连接器B	PA66	1	
4	W0310068	Drain Hose Heater	排水管加热带		1	
3	80021204	Evap Right Cover	蒸发空气右挡板	SUS430	1	
2	80021203	Evap Left Cover	蒸发空气左挡板	SUS430	1	
1	W0202134	Evaperator	蒸发器	AL TP2-M	1	

85010452

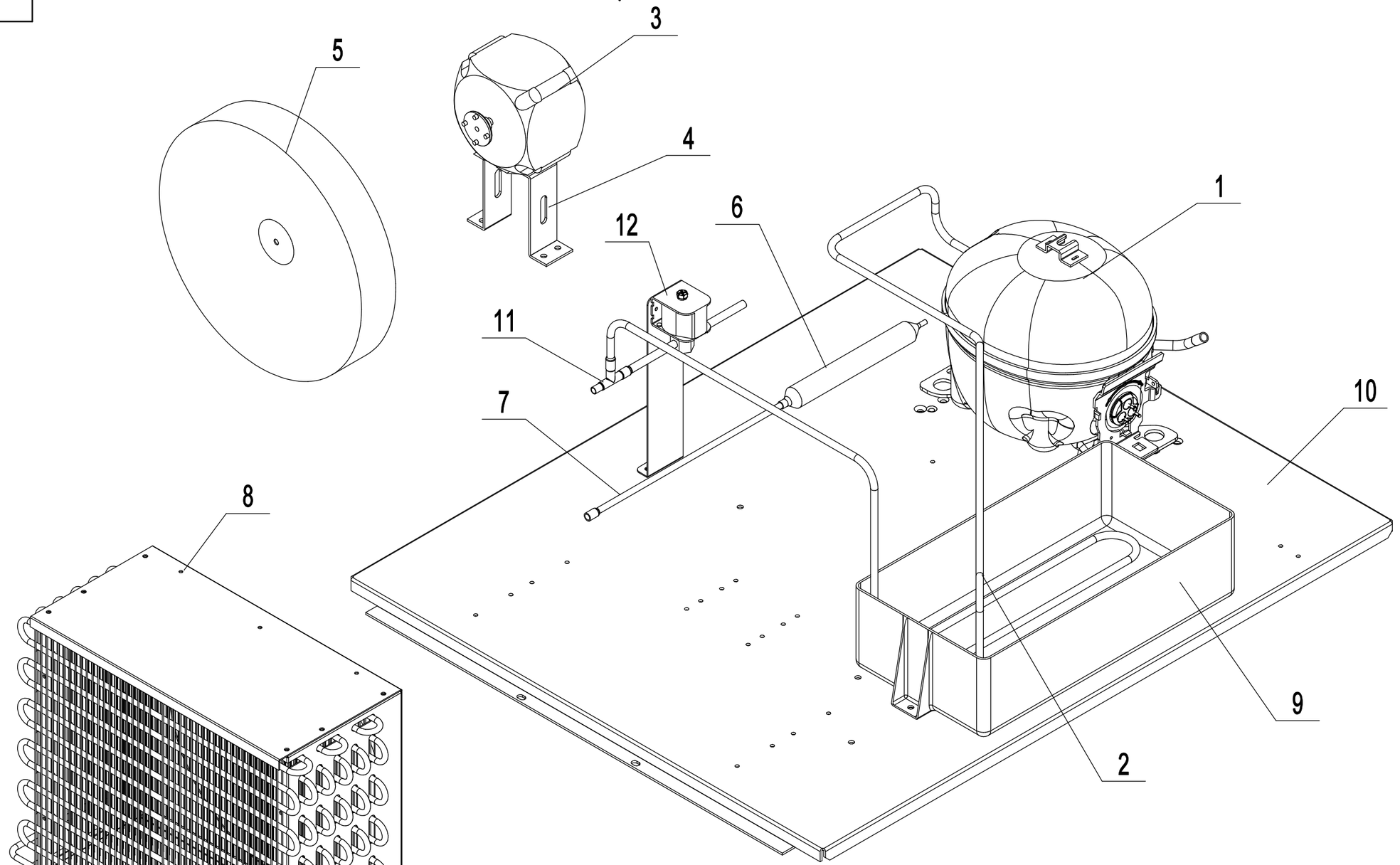




局部放大图A

序号	Material code	English Name	Chinese Name	MATERIAL	QUAMTITY	Remark
3	W0402393	Shelf	食品架		3	
2	66490313	Shelf Clip	食品架搁脚	SUS430	12	
1	80037410	Pilastor For Shelf	食品架隔条	SUS430	4	

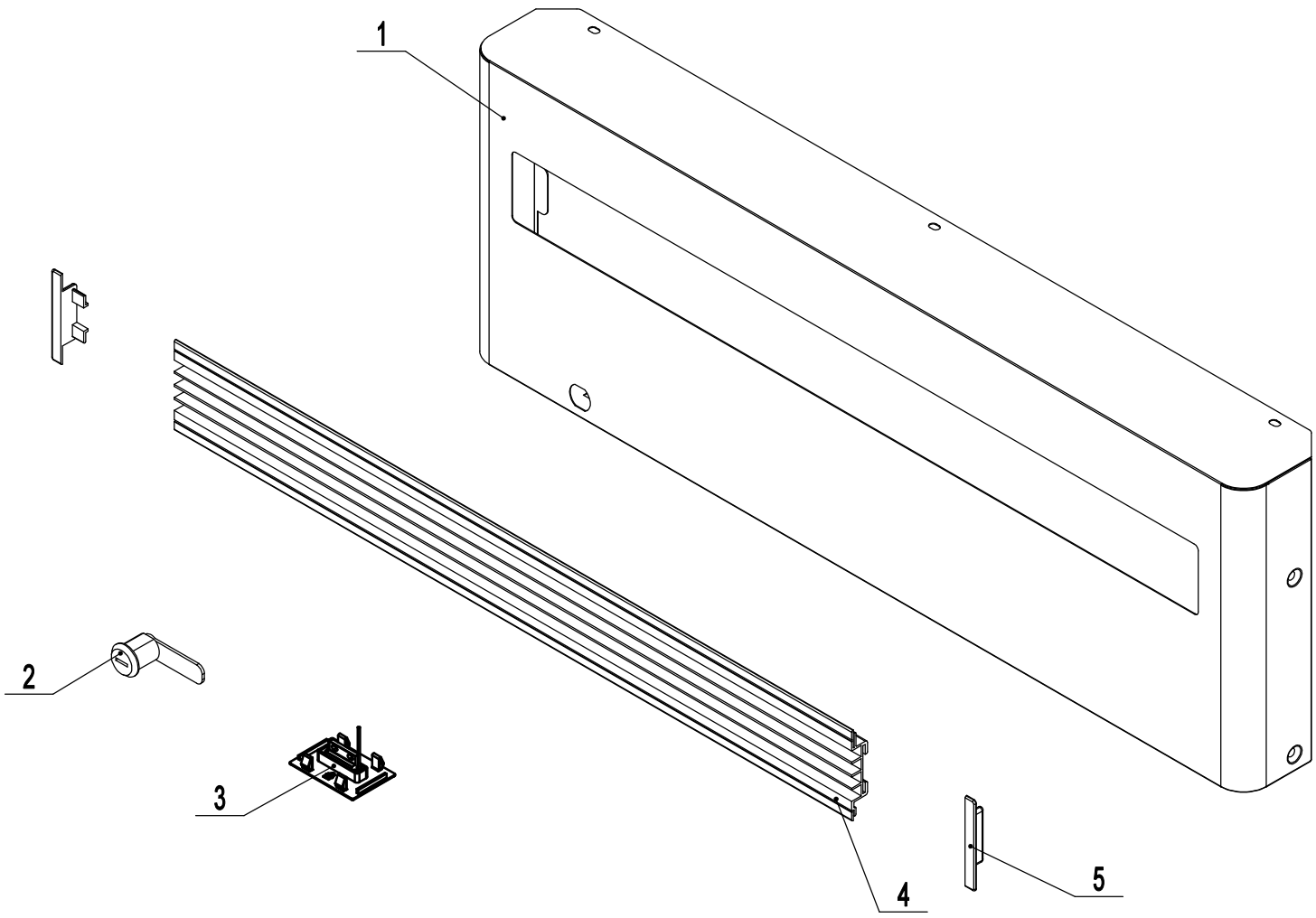
85010453



序号	Material code	English Name	Chinese Name	MATERIAL	QUANTITY	Remark
12	W0205012	Solenoid valve	电磁阀(120V)		1	
11	W0208017	'T' Three way connecting pipe	T型三通	TP2-M	1	
10	85011809	Compressor Board	压缩机底板	GI	1	
9	W0411152	Plastic Drain Pan	接水盘	ABS	1	
8	W0203074	Condensor	冷凝器	GI TP2-M	1	
7	W0210537	Connecting Coil to Condenser	连接管(冷凝器-干燥过滤器)	TP2-M	1	
6	W0204101	Dry Filter	干燥过滤器		1	
5	W0301061	Condenser Fan Blade	冷凝风叶	AL/Ø250	1	
4	80061601	Condenser Fan Braket	冷凝风机支架	GI	1	
3	W0301905	Condensor Fan	冷凝风机(120V)		1	
2	W0210617	High Presure Coil	散热管	TP2-M	1	
1	W0201146	Compressor	压缩机(NEK2134U)		1	

8501GR-MTPA

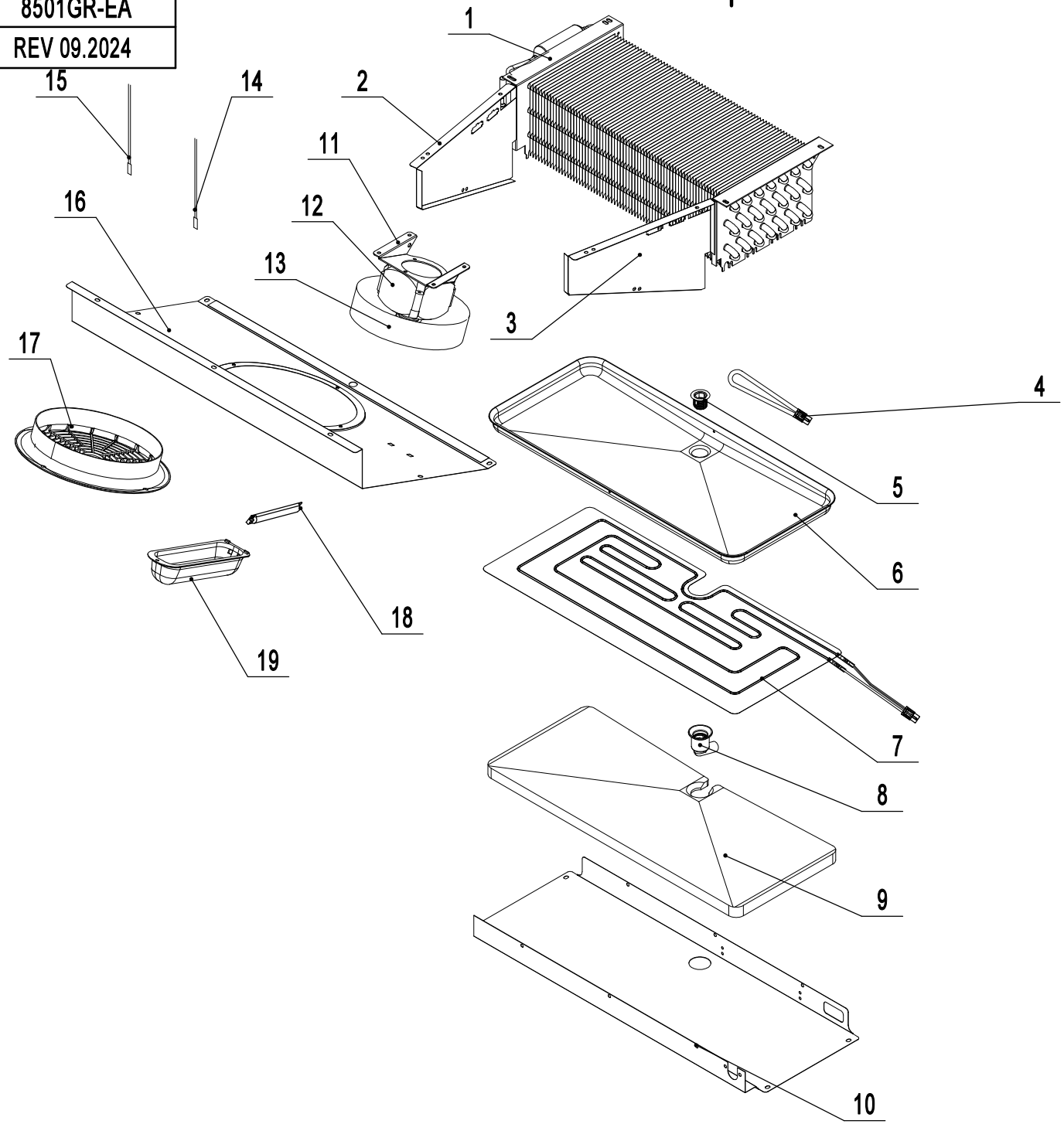
REV 09.2024



No.	Part #	Part Name	Qty
5	W0409272	Black Front Grille Clip	2
4	W0410351	Black Front Grille	1
3	W0409161	Grey Panel Magnetic Switch	1
2	W0604007	Lock & Key	1
1	85011425-430	Top Panel	1

8501GR-EA

REV 09.2024

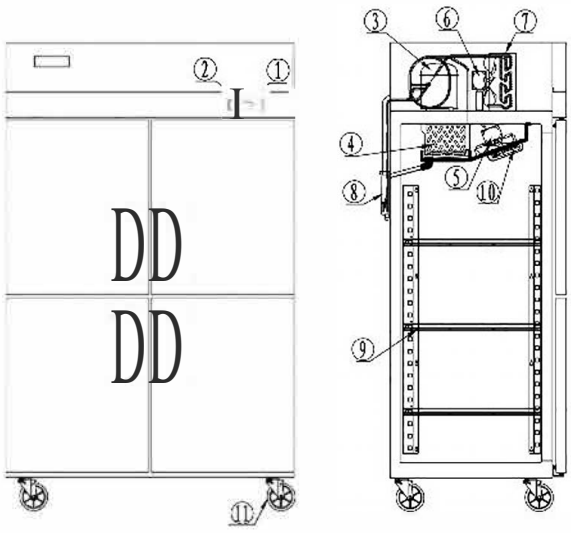


No.	Part #	Part Name	Qty
19	W0409863	Light Cover	1
18	W0304086	LED Light	1
17	W0409080	Evap Fan Shroud	1
16	85011206	Evap Front Cover	1
15	W0302317	Evap Temp Blue Probe	1
14	W0302316	Room Temp White Probe	1
13	W0301059	Evap Fan Blade	1
12	W0301904	Eavp Fan Motor	1
11	80021501	Evap Fan Bracket	1
10	85011205	Drain Pan Cover	1
9	W0803011	Drain Pan Foam	1
8	W0409858	Evap Drian Pan Connector Elbow	1
7	W0310075	Evap Drain Pan Heater	1
6	80012001	Evap Drain Pan	1
5	W0409859	Evap Drain Pan Screw Connector	1
4	W0310068	Drian Hose Heater	1
3	80021204	Right Evap Air Baffle	1
2	80021203	Left Evap Air Baffle	1
1	W0202134	Evaporator	1

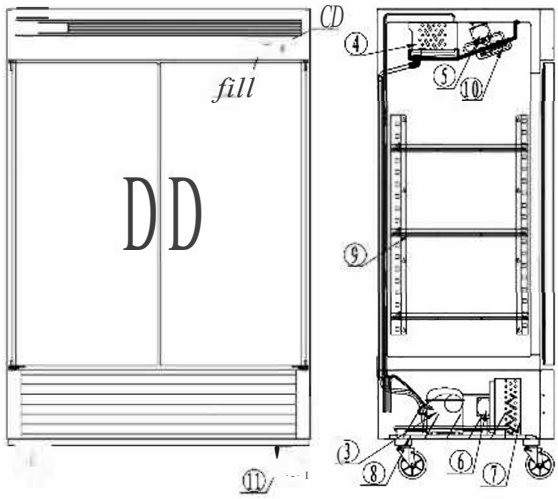


12. Configuration Sketch Map

T Seri- Reach-Ins



B Serisa Reach-Ins



1. Power switch
2. Microcomputer controller
3. Compressor
4. Evaporator
5. Evaporator fan motor
6. Condenser fan motor
7. Condenser
8. Drain case
9. Shelf
10. Lamp
11. CASTER

Operating Instruction



1. New upright air-cooling refrigerator should be opened and ventilate it before it is in use. After that, users should use warm water clean its inside.
2. After connecting the power supply, press the "POWER" switch on the controller keyboard (Green Indicator Light ON), the fridge will come to work. The microcomputer controller, installed in the controller keyboard, could automatically adjust the temperature ranges. This intelligent digital controller works as: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again.



Fan cooling freeze series product

