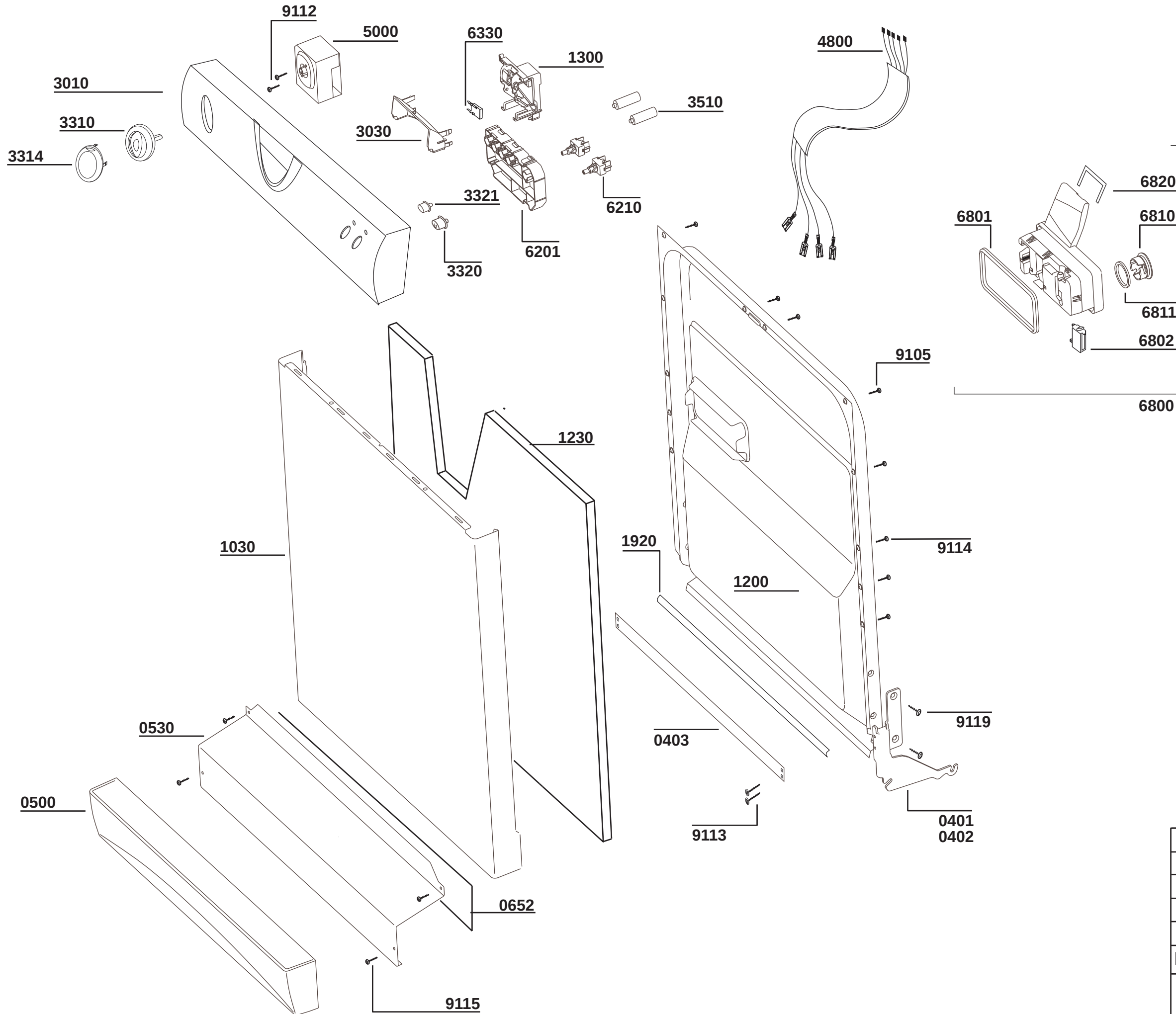
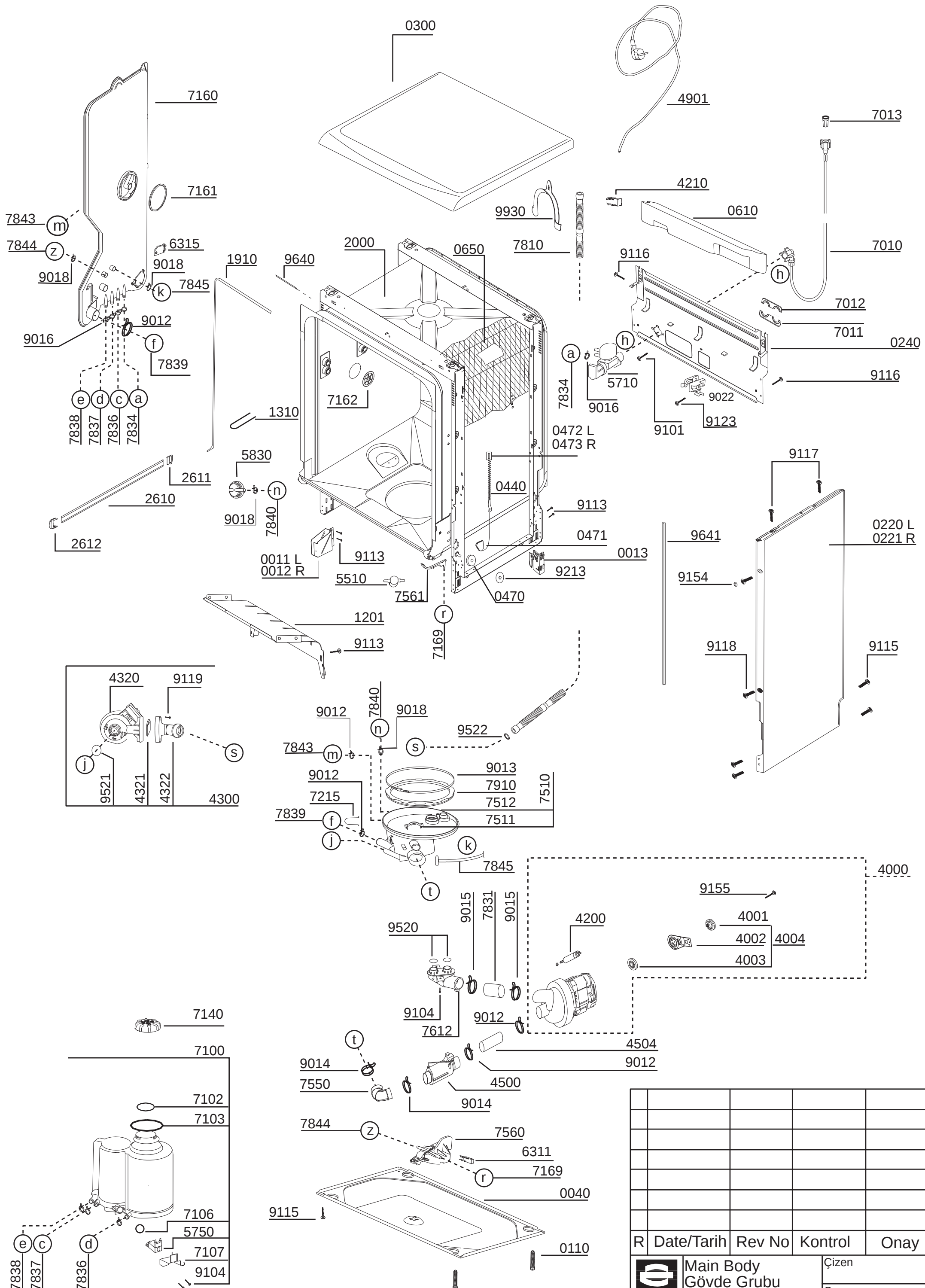
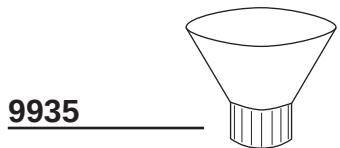
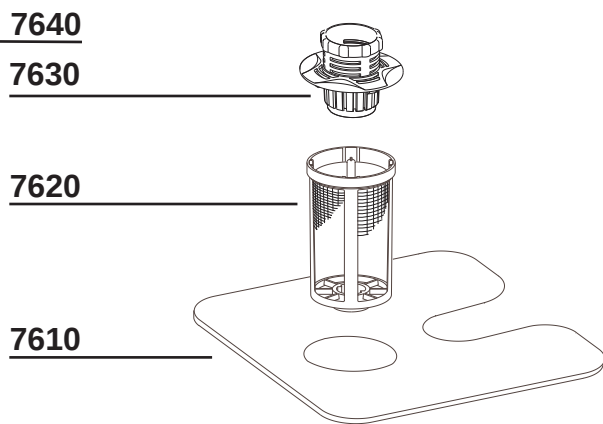
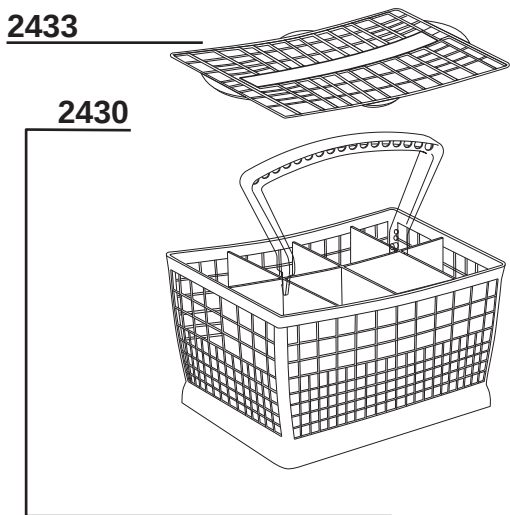
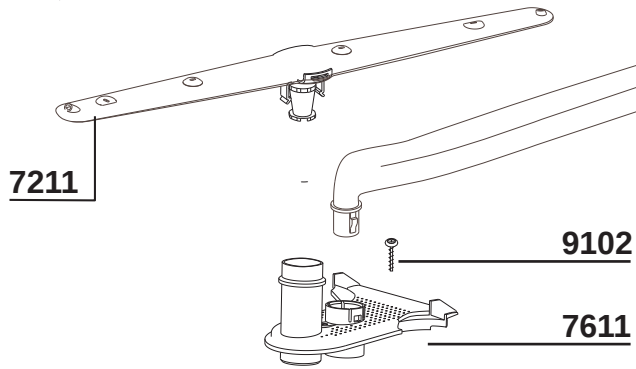
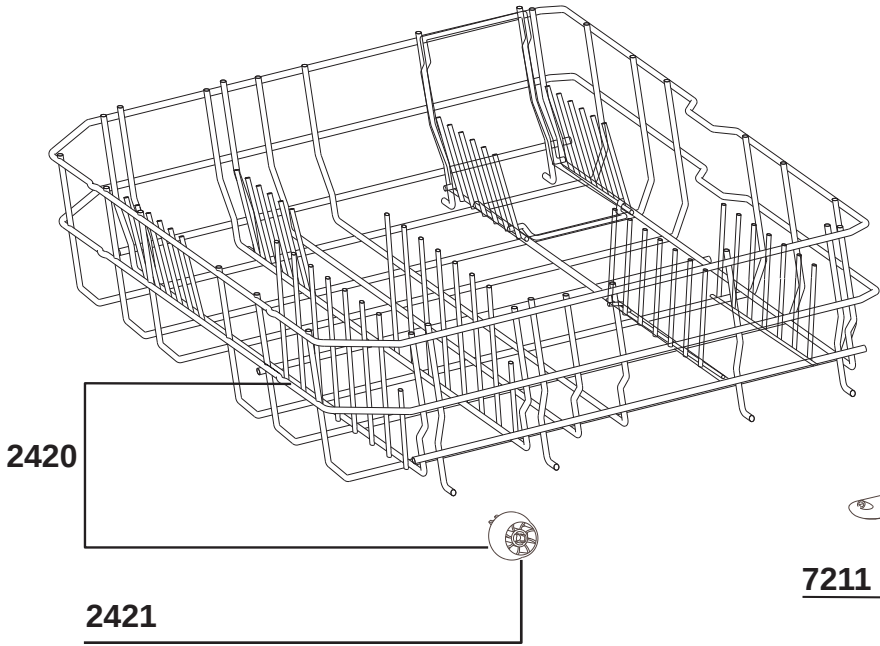
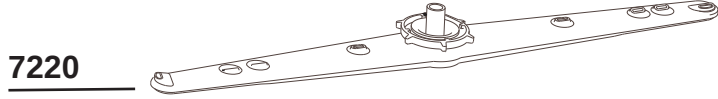
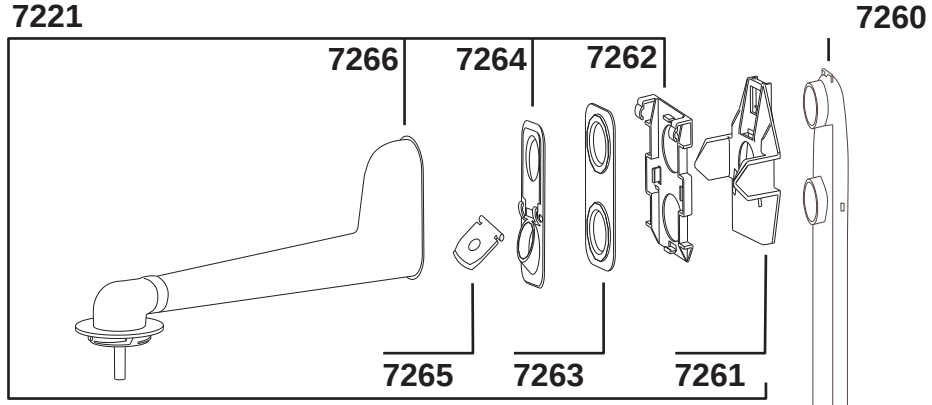
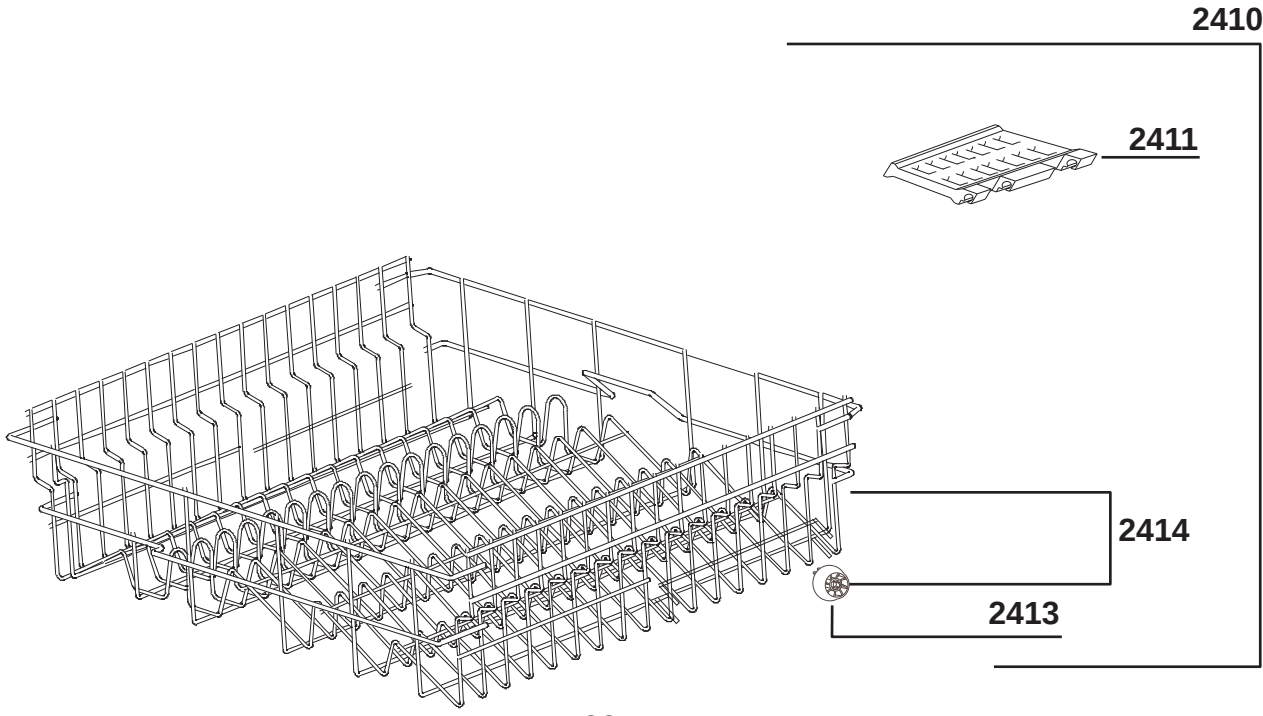




R	Date/Tarih	Rev No	Kontrol	Onay
ARÇELİK	Door Group Kapı Grubu			Çizen
	18 9983 11 59			Onay



R	Date/Tarih	Rev No	Kontrol	Onay
 Main Body Gövde Grubu 18 9981 1159			Çizen	
			Onay	



R	Date/Tarih	Rev No	Kontrol	Onay
			Inner Tub Su Sistemi Grubu 18 9982 10 79	
			Çizen	
			Onay	

		DW54	
REPERE	REFERENCE	DESIGNATION	Qté
11	1881810100	SUPPORT PIED GAUCHE	1
12	1881810200	SUPPORT PIED DROIT	1
13	1881820100	SUPPORT PIED	2
40	1880080292	CHASSIS	1
110	1880370100	PIED	4
220	1880110110	PANNEAU GAUCHE	1
221	1880110210	PANNEAU DROIT	1
240	1880010600	SUPPORT CONTRE POIDS	1
300	1882900100	DESSUS	1
401	1880290200	CHARNIERE DROITE	1
402	1880290100	CHARNIERE GAUCHE	1
403	1880040100	SUPPORT CHARNIERE	1
440	1881060100	RESSORT DE PORTE	2
470	1881040100	POULIE DE PORTE	2
471	1881050100	CABLE RESSORT	2
472	1881090100	FIXATION RESSORT GAUCHE	1
473	1881090200	FIXATION RESSORT DROIT	1
500	1880560200	PLINTHE	1
530	1880250110	SUPPORT DE PLINTHE	1
610	1880590100	CONTRE POIDS	1
650	1882430100	ISOLATION	1
1030	1880060510	PANNEAU DE PORTE	1
1200	1884700100	CONTRE PORTE	1
1201	1880020100	SUPPORT BANDEAU AVANT	1
1230	1882410100	ISOLATION DE LA PORTE	1
1300	1880300100	ENSEMBLE SECURITE DE PORTE	1
1310	1881970100	CROCHET DE VERROUILLAGE	1
1910	1882470100	JOINT DE PORTE ex 1882490100 ex1882240100	1
1920	1882470100	JOINT DE BAS DE PORTE	1
1920	1882470100	JOINT BAS DE PORTE A PARTIR DU 29/01/2002	1
2000	1897501300	CAVITE	1
2411	1881740200	TABLETTE GRILLE	2
2413	1885800100	ROULETTE DU PANIER SUPERIEUR	4
2414	1884000100	PANIER SUPERIEUR + ROULETTE	1
2420	1883101000	PANIER INFERIEUR + ROULETTE	1
2421	1885900100	ROULETTE DU PANIER INFERIEUR	8
2430	1883200200	PANIER A COUVERT	1
2432	1800540200	POIGNEE PANIER A COUVERT	1
2433	1881860100	TABLETTE DU PANIER A COUVERT	1
2610	1880240100	RAIL DU PANIER	2
2611	1880580100	EMBOUT DE RAIL AVANT	2
2612	1880570100	EMBOUT DE RAIL ARRIERE	2
3010	1896402500	BANDEAU	1
3310	1896801000	BOUTON DU PROGRAMMATEUR	1
3314	1884570200	DECOR BOUTON DU PROGRAMMATEUR	1
3320	1884580100	BOUTON M/A	1
3510	1887900400	LAMPE ROUGE	2
4000	1891000400	POMPE DE CYCLAGE	1
4001	1880390100	FIXATION MOTEUR	1
4002	1880380100	FIXATION DE LA POMPE	1
4003	1881440100	SUPPORT MOTEUR PLASTIQUE	1
4200	1701620000	CONDENSATEUR	1
4210	1883880100	FILTRE ANTI PARASITE	1
4300	1882600400	POMPE DE VIDANGE	1
4321	1804070000	JOINT DE POMPE DE VIDANGE	1
4322	1882860100	JOINT DE POMPE DE VIDANGE	1
4500	1858130000	RESISTANCE dia 40	1
4504	1881150100	DURITE	1
4800	1710600200	FILERIE	1

		DW54	
REPERE	REFERENCE	DESIGNATION	Qté
4910	1882480100	BORNIER ALIMENTATION	1
5000	1898030100	PROGRAMMATEUR	1
5510	1898080100	THERMOSTAT	1
5710	1883570100	ELECTROVANNE	1
5750	1835900200	ELECTROVANNE DE REGENERATION	1
5830	1898060100	PRESSOSTAT	1
6201	1880540100	SUPPORT TOUCHE	1
6210	1833120100	INTERRUPTEUR M/A..	2
6311	1883240100	CONTACT ANTI DEBORDEMENT	1
6330	1831830000	INTERRUPTEUR DE PORTE	1
6800	1831500300	BOITE A PRODUIT	1
6801	1831880000	JOINT DE BOUCHON DETERGENT	1
6802	1831470000	ELECTRO AIMANT	1
6810	1831320000	BOUCHON BOITE DETERGENT	1
6811	1800680300	JOINT DE BOUCHON DETERGENT	1
6820	1831560200	JOINT DE VOLET	1
7010	1805100200	TUYAU ARRIVEE D' EAU	1
7011	1889010100	DURITE SUPERIEURE	2
7012	1889020100	DURITE INFERIEURE	1
7013	1800710000	FILTRE ARRIVEE D' EAU	1
7100	1883800200	KIT BOITE A SEL	1
7102	1800750000	ECROU DE BOITE A SEL	1
7103	1800720200	JOINT BOITE A SEL	1
7106	1800681000	JOINT ELECTROVANNE	1
7107	1880980100	PROTECTION ELECTROVANNE	1
7140	1883900100	BOUCHON BOITE A SEL	1
7160	1882610500	REPARTITEUR	1
7160	1719400100	REPARTITEUR NOUVEAU	1
7161	1882630100	JOINT EVACUATION D'AIR	1
7162	1882620100	GRILLE EVACUATION	1
7162	1882620300	GRILLE EVACUATION	1
7169	1800862100	DURITE	1
7211	1881300100	BRAS DE LAVAGE INFERIEUR	1
7215	1801210000	CLIPS TUYAU DE VIDANGE	1
7220	1880800100	BRAS DE LAVAGE SUPERIEUR	1
7220	1880801000	NOUVEAU BRAS DE LAVAGE A PARTIR DU 22/10/2002	1
7221	1880900100	ENSEMBLE SUPPORT BRAS SUPERIEUR	1
7224	1881480100	JOINT	1
7225	1881340100	SUPPORT BRAS	1
7226	1881350100	FIXATION	1
7227	1880700100	BRAS DE LAVAGE	1
7260	1881250100	CONDUIT D'EAU DE BRAS DE LAVAGE	1
7260	1881240100	CONDUIT D'EAU DE BRAS DE LAVAGE A PARTIR DU	1
7260	1881240100	CONDUIT D EAU	
7261	1881290100	DURITE	1
7262	1881380100	SUPPORT	1
7263	1881280100	SUPPORT	1
7264	1881360100	DURITE	1
7265	1881370100	GUIDE D'AIR	1
7266	1881310100	SUPPORT DE BRAS DE LAVAGE	1
7510	1892300200	KIT RESERVOIR POMPE	1
7510	1892300500	RESERVOIR POMPE	1
7550	1880450100	DURITE COUDEE	1
7560	1888100100	KIT LOGEMENT CONTACT ANTI DEBORDEMENT	1
7561	1884280100	FLOTTEUR ANTI DEBORDEMENT	1
7561	1884280100	FLOTTEUR ANTI DEBORDEMENT	1
7610	1881230100	TAMIS EN PLASTIQUE	1
7611	1889400300	SUPPORT FILTRE+ SUPPORT BRAS INFERIEUR	1
7612	1882700200	RACCORD POMPE / BOL	1

		DW54	
REPERE	REFERENCE	DESIGNATION	Qté
7612	1882700300	RACCORD POMPE / BOL	1
7630	1882880100	FIXATION DE FILTRE	1
7640	1894600100	ENSEMBLE FILTRE	1
7810	1853210200	TUYAU DE VIDANGE	1
7831	1881170100	DURITE DE POMPE DE CYCLAGE	1
7834	1800630700	DURITE REPARTITEUR / ELECTROVANNE	1
7834	1800631200	DURITE REPARTITEUR / ELECTROVANNE	1
7836	1884290100	DURITE REPARTITEUR / BOITE A SEL	1
7836	1800862600	DURITE REPARTITEUR / BOITE A SEL	1
7837	1884290200	DURITE REPARTITEUR / BOITE A SEL	1
7837	1800562500	DURITE REPARTITEUR / BOITE A SEL	1
7838	1884290300	DURITE REPARTITEUR / BOITE A SEL	1
7838	1800862400	DURITE REPARTITEUR / BOITE A SEL	1
7839	1882650200	DURITE	1
7843	1800861900	DURITE REPARTITEUR / BOL	1
7843	1800862300	DURITE REPARTITEUR BOL	1
7844	1800861700	DURITE REPARTITEUR / KIT LOGEMENT ANTI DEBORD.	1
7845	1800861800	DURITE REPARTITEUR / BOL	1
7846	1800862700	DURITE	1
7910	1880440100	JOINT	1
9012	2002371800	COLLIER DURITE	2
9013	1889280100	COLLIER FILTRE	1
9014	2002372500	COLLIER DURITE COUDEE	4
9015	2002373200	COLLIER DURITE	2
9016	2002370800	COLLIER DURITE ELECTROVANNE	11
9017	2002370200	COLLIER DURITE	2
9101	1831680000	VIS	1
9102	1889340100	VIS	2
9104	1803430000	VIS	4
9105	1883430100	VIS	6
9106	1889270100	VIS	1
9112	1880680100	VIS	2
9113	1883470100	VIS	22
9114	1883460100	VIS	6
9115	1801080100	VIS SOCLE , PANNEAU	18
9116	1889330100	VIS SUPPORT CONTRE POIDS	2
9117	1801060100	VIS	18
9118	1883410100	VIS PANNEAU	4
9119	1804750000	VIS	2
9152	1889320100	ECROU	1
9153	1802860200	ECROU	4
9154	1882290100	CAPUCHON VIS PANNEAU	4
9155	1883440100	VIS	1
9213	1831780000	CLIPS POULIE DE PORTE	2
9520	1882150100	JOINT RACCORD POMPE	2
9521	1800680700	JOINT POMPE DE VIDANGE	1
9522	1800680100	JOINT TUYAU DEVIDANGE	2
9640	1882280100	ISOLATION	1
9930	2002740000	FIXATION TUYAU DE VIDANGE	1
9935	1850330000	ENTONNOIR A SEL	1
***	1894340300	NOTICE	1

	PART - GROUP CHANGE NOTIFICATION				Bulletin no	2002-150-02-YD	Date	28.03.2003
	Prepared by	Oya ÖRKİZ - Galip ARBAK				Signature		
	Approved by	Atilla Uz - Ertan Çetinkaya						
	Copy to	THD	✓	ABMİ - ÜPB	✓	ABMİ - MÜT		ABMİ - KGB
ABMİ - ÜGB		✓	ABMİ - MT		ABMİ - İGT		Customer	✓

TECHNICAL EXPLANATION OF THE CHANGE

Issue	Regeneration unit change
-------	--------------------------

Explanation

Design changes to have better performance values (washing and drying).



INFORMATION ABOUT THE PART CHANGES

Ref	New part(s)			Old Part(s)			Code
	Part name	Stock number	Rev	Part name	Stock number	Rev	
7160	Regeneration unit gr.	17 1940 01 00	A	Regeneration unit gr.	18 8261 05 00	C	B7
7834	Hose-PVC (water inlet-reg. Unit)	18 0063 12 00	R	Hose-PVC (water inlet-reg. Unit)	18 0063 07 00	O	B7
7836	Hose-PVC (resin-reg.unit)	18 0086 26 00	V	Hose TPE-1	18 8429 01 00	D	B7
7837	Hose-PVC (salt-reg. Unit)	18 0056 25 00	V	Hose TPE-2	18 8429 02 00	D	B7
7838	Hose-PVC (sump-reg. Unit)	18 0086 24 00	V	Hose TPE-3	18 8429 03 00	D	B7
7843	Hose-PVC (overflow security-left)	18 0086 23 00	V				
7162	Air funnel cap	18 8262 03 00	D	Air funnel cap	18 8262 01 00	C	A7
7510	Sump gr.	18 9230 05 00	C	Sump gr.	18 9230 02 00	B	B7
7561	Overflow security part (left)	18 8428 01 00	C				
7612	Water guide gr.	18 8270 03 00	D	Water guide gr.	18 8270 02 00	C	B7
2000	Welded construction gr.	18 9750 13 00	B	Welded construction gr.	18 9750 10 00	B	B7
7846	Hose PVC -(Pressure balancer)	18 0086 27 00	V	Hose PVC -(Pressure balancer)	18 0086 19 00	P	B7
				Hose - PVC (overflow security)	18 0086 17 00	P	B7
				Hose - PVC -straight (sump-reg.unit)	18 8265 02 00	G	B7
				Hose Clamp (straight hose)	20 0237 18 00	Y	B7
				Discharge stopper	18 8268 01 00	-	B7
				Hose- discharge stopper-PV C	18 0086 18 00	P	B7
4000	Circulation motor-Pump group	18 8220 07 00	-	Circulation motor-Pump group	18 8220 03 00	-	B1

CODE EXPLANATION :

A - Old stocks can be used; Old & new parts are fully interchangeable

B - Old stocks can be used; Old parts are interchangeable with old productions & new parts are interchangeable with new productions

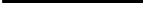
C - Old stocks can not be used. New parts are interchangeable with old & new productions

D - Old stocks can not be used. New parts are interchangeable with new productions

1 - Performance / **2** - Production improvement / **3** - Safety / **4** - Material or dimension change / **5** - Additional part / **6** - Part cancellation / **7** - Alternative use

INFORMATION ABOUT THE PRODUCT CHANGES

No	Date	Brand	Model	Started from	Finished at	Signature
1						
2						
3						
4						
5						

 ARÇELİK 	PART - GROUP CHANGE NOTIFICATION				Bulletin no	2002-180-2-DTG	Date	13/12/2002
	Prepared by	Galip Arbak - Cem kalender - Oya örkiz				Signature		
	Approved by	Erkan Çetinkaya						
	Copy to	THD	✓	ABMİ - ÜPB	✓	ABMİ - MÜT		Customer
ABMİ - ÜGB		✓	ABMİ - MT	✓	ABMİ - İGT		Other	

TECHNICAL EXPLANATION OF THE CHANGE

Issue Circulation pump-motor grb.

Explanation

Change is done to lower the energy consumption of the circulation motor and for the use of common parts.

After



Before



INFORMATION ABOUT THE PART CHANGES

Ref	New part(s)			Old Part(s)			Code
	Part name	Stock number	Rev	Part name	Stock number	Rev	
4000	Circulation pump-motor grb.	18 9910 03 00	-	Circulation pump-motor grb.	18 9910 01 00	-	A1

CODE EXPLANATION :

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B- Old stocks can be used; Old parts are interchangeable with old productions & new parts are interchangeable with productions

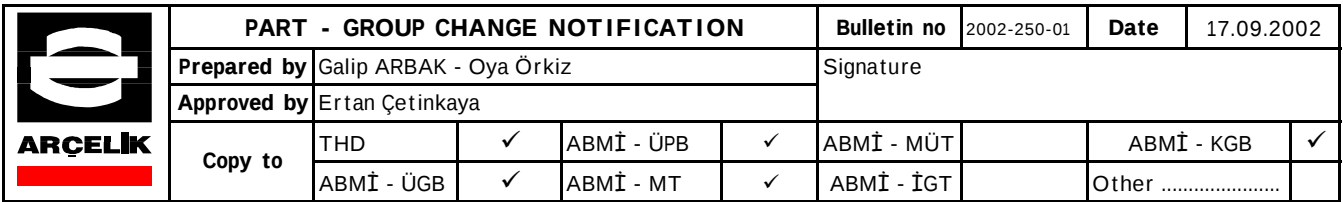
C- Old stocks can not be used. New parts are interchangeable with old & new productions

D- Old stocks can not be used. New parts are interchangeable with new productions

1- Performance / **2**- Production improvement / **3**- Safety / **4**- Material or dimension change / **5**- Additional part / **6**- Part cancellation / **7**- Alternative use

INFORMATION ABOUT THE PRODUCT CHANGES

No	Date	Brand	Model	Started from	Finished at	Signature
1	20/11/2002	All	All			
2						
3						
4						
5						

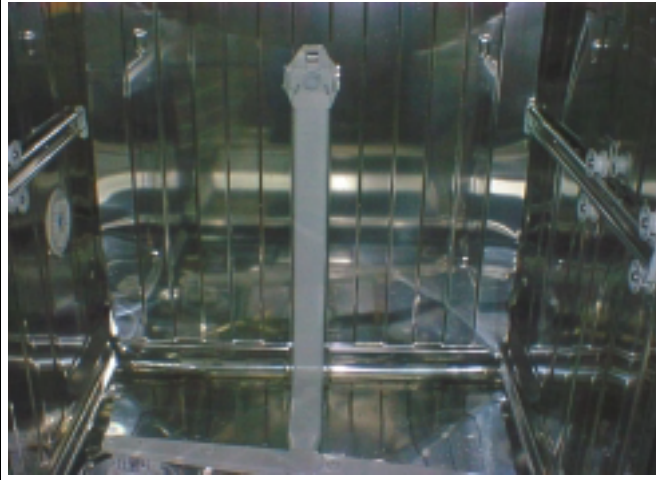
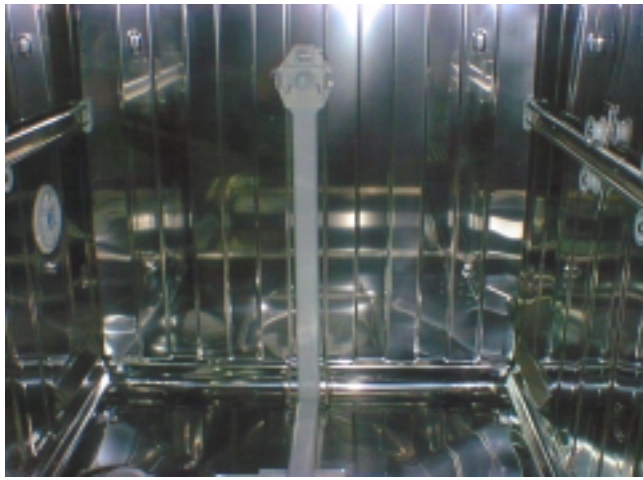


TECHNICAL EXPLANATION OF THE CHANGE
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Issue	Regeneration unit change
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Explanation

Design change to have more stable nozzle pressure values (for upper spray arm)



INFORMATION ABOUT THE PART CHANGES	
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[illegible]

CODE EXPLANATION :

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B - Old stocks can be used; Old parts are interchangeable with old productions & new parts are interchangeable with productions

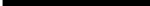
C-Old stocks can not be used. New parts are interchangeable with old & new productions

D-Old stocks can not be used. New parts are interchangeable with new productions

1-Performance / 2-Production improvement / 3-Safety / 4-Material or dimension change / 5-Additional part / 6-Part cancellation / 7-Alternative use

INFORMATION ABOUT THE PRODUCT CHANGES	
--	--

No	Date	Brand	Model	Started from	Finished at	Signature
1						
2						

 ARÇELİK 	PART - GROUP CHANGE NOTIFICATION				Bulletin no	2002-180-1	Date	04.10.2002
	Prepared by	Galip Arbak - Cem kalender - Oya örkiz				Signature		
	Approved by	Erkan Çetinkaya						
	Copy to	THD	✓	ABMİ - ÜPB	✓	ABMİ - MÜT		Customer
ABMİ - ÜGB		✓	ABMİ - MT	✓	ABMİ - İGT		Other	

TECHNICAL EXPLANATION OF THE CHANGE

Issue	Design change of upper spray arm group
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Explanation

To eliminate the risk of internal water leakage, design change is done in such a way that o-rings/gaskets are used for sealing purposes. In addition to this change serviceability of parts with ref no.'s 7225, 7226 & 7227 are canceled. Only part with ref 7220 (upper spray arm group) will be left for service part.

After	Before
	

INFORMATION ABOUT THE PART CHANGES

Ref	New part(s)			Old Part(s)			Code
	Part name	Stock number	Rev	Part name	Stock number	Rev	
7220	Upper spray arm gr. (with gasket)	18 8080 10 00	-	Upper spray arm gr.	18 8080 01 00	A	A1
7227				Upper spray arm welded	18 8070 01 00	B	A1
7225				Upper spray arm assembly part	18 8134 01 00	B	A1
7226				Upper spray arm nut	18 8315 01 00	B	A1

CODE EXPLANATION :

A - Old stocks can be used; Old & new parts are fully interchangeable

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1 - Performance / **2** - Production improvement / **3** - Safety / **4** - Material or dimension change / **5** - Additional part / **6** - Part cancellation / **7** - Alternative use

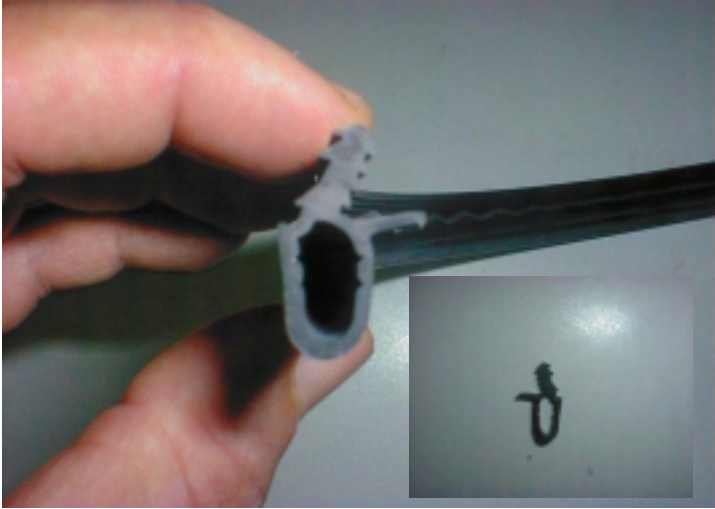
INFORMATION ABOUT THE PRODUCT CHANGES

No	Date	Brand	Model	Started from	Finished at	Signature
1	22.10.2002	All	All			
2						
3						
4						
5						

 ARÇELİK 	PART - GROUP CHANGE NOTIFICATION					Bulletin no	2001-270	Date	14.08.2002
	Prepared by	Galip ARBAK					Signature		
	Approved by	Ertan ÇETİNKAYA							
	Copy to	THD	✓	ABMİ - ÜPB	✓	ABMİ - MÜT	✓	ABMİ - KGB	✓
ABMİ - ÜGB		✓	ABMİ - MT	✓	ABMİ - İGT	✓	Other		

TECHNICAL EXPLANATION OF THE CHANGE

Issue	Alternative use of door lower seal
Explanation	
Alternative use because of design change	

After	Before
	

INFORMATION ABOUT THE PART CHANGES

Ref	New part(s)			Old Part(s)			Code
	Part name	Stock number	Rev	Part name	Stock number	Rev	
1920	Door lower seal	18 8247 01 00	B	Door lower seal	18 8224 01 00	B	A1

CODE EXPLANATION :

A - Old stocks can be used; Old & new parts are fully interchangeable

B - Old stocks can be used; Old parts are interchangeable with old productions & new parts are interchangeable with productions

C - Old stocks can not be used. New parts are interchangeable with old & new productions

D - Old stocks can not be used. New parts are interchangeable with new productions

1 - Performance / **2** - Production improvement / **3** - Safety / **4** - Material or dimension change / **5** - Additional part / **6** - Part cancellation / **7** - Alternative use

INFORMATION ABOUT THE PRODUCT CHANGES

No	Date	Brand	Model	Started from	Finished at	Signature
1	29.01.2002		ALL MODELS			
2	29.01.2002		ALL MODELS			
3						
4						
5						

PS : Pressure Switch
T : Termostat

Timer Part Number : 18 9803 01 00

A

02	01	Tip	Malzeme	Renk	Standart	Ölçü						
								Malzeme / Material				
								Tarih	Ysim	Malzeme Ady / Part Name		
							21/08/2002					
								21/08/2002		Program Flow Chart ART2		
						Töleransy Verilmeyen Ölçüler ± 10 mm	Kontrol Ölçüleri	Ma.Sınyfı	Komp.S.No	Tip	St.Deđ.	Ölçek Ölçeksiz
		A	-	BM 3768	15/08/2002		☐	18	9801	05	00	Say.No 1/1
Tip	D	S.No	D.T.No	Tarih	Kontrol	Onay	Yerine Geçti					Tamamý

TROUBLE SHOOTING GUIDE

SYMPTOMS	POSSIBLE CAUSES	SOLUTIONS
Spotting/filming/poor cleaning results	Insufficient amount of detergent	Increase the amount of detergent, especially when washing full loads, or in hard water.
	Hard water.	Increase water hardness dosage. Use additional detergent. Then, use a rinse agent in the rinse cycle.
	Spray arms need cleaning	Check the nozzle holes in the spray arms. They may be blocked with a soil particle. Check and clean them periodically.
	Improper loading.	Follow instructions for use for proper loading procedures. Place dishes so water spray reaches all soiled surfaces. Do not overcrowd the baskets since this will block the water spray.
	Insufficient water fill.	Check mains water pressure
	Filter system needs cleaning.	Remove any accumulated or deposited foods. Check and clean them periodically.
	Oversudsing - Prewashing with a liquid dishwashing detergent.	Rinse items thoroughly before putting them in the dishwasher to remove dishwashing detergent.
	Insufficient amount of detergent.	Increase amount of detergent to inhibit suds caused by protein solid and washing action.
Small particles (food or detergent) left on items	Water not reaching surfaces, dishwasher overcrowded.	Check to be sure water action is not blocked by dishes. Check filter system for accumulated or deposited food or detergent. Load dishwasher correctly. Keep filter system clean.
	Insufficient water fill.	Check mains water pressure
	Powder detergent stored too long or under adverse conditions.	Use powder detergent within one to two months after purchase. Open one box at a time. Always close pouring spout after each use. Store in a cool, dry place.
	Rinse aid supply depleted.	Add rinse aid to the dispenser.
Pitting of stainless steel items	Prolonged contact with salty or highly acidic foods.	Remove spots with silver polish. Rewash. Wash soon after use, or pre-wash items if they will not be washed right away.
	Contact of wet items with undissolved or highly concentrated detergent.	Remove spots with silver polish. Rewash. Wash soon after use, or pre-wash items if they will not be washed right away. Do not overload cutlery basket. Avoid spilling or pouring detergent directly on flatware. Make sure dispenser cup is properly closed.
Dishes not dry	Improper loading.	Load so that all items are properly tilted for good drainage. Avoid nesting of dishes and/or silverware.
	Rinse aid agent supply depleted.	If dishwasher has a built-in Rinse aid dispenser, add liquid Rinse aid agent. If no Rinse aid dispenser, add solid form.
Scratches on glassware	A water or chemical reaction with some glassware. Usually caused by some combination of soft or softened water and alkaline washing solutions reacting with the glassware. Can be accelerated by poor rinsing, overloading and excessive temperature.	The condition may not always be preventable. To minimize the possibility of etching, use minimum amount of detergent. The condition may not always be preventable. To minimize the possibility of etching, use minimum amount of detergent.
		Use of the appropriate programme.
		Use of a Rinse aid agent may also help.
Detergent cakes in detergent dispenser.	If using powder detergent, there may be dampness in the dispenser.	Make sure dispenser is dry before adding powder detergent. Start dishwasher immediately.
	If using gel detergent, the detergent may be left in dispenser too long before using.	Start dishwasher soon after adding gel detergent. Do not allow detergent to dry out in dispenser.
	Faulty cover.	Do not overfill. Cover should close tightly. Check cover for fit.
	Improper loading.	Do not place large items in front of dispenser.
	Old detergent.	Use detergent within one to two months of purchase. To assure freshness, buy detergent as needed and no more than one or two at a time. Store in a cool, dry place.
Chipping and breakage of dishes/glasses	Improper loading.	Load with care following the instructions for use. Place glassware so it does not touch the other dishes. Remove from dishwasher carefully.
Odour in dishwasher	Dishes washed only every two or three days.	Use the pre-wash cycle at least once a day until a load accumulates, or hand rinse dishes before loading dishwasher.
	A dirty filter system may contribute to a bad odour.	Clean filter system.

TROUBLE SHOOTING GUIDE

SYMPTOMS	POSSIBLE CAUSES	SOLUTIONS
Spotting/filming/poor cleaning results	Insufficient amount of detergent	Increase the amount of detergent, especially when washing full loads, or in hard water.
	Hard water.	Increase water hardness dosage. Use additional detergent. Then, use a rinse agent in the rinse cycle.
	Spray arms need cleaning	Check the nozzle holes in the spray arms. They may be blocked with a soil particle. Check and clean them periodically.
	Improper loading.	Follow instructions for use for proper loading procedures. Place dishes so water spray reaches all soiled surfaces. Do not overcrowd the baskets since this will block the water spray.
	Insufficient water fill.	Check mains water pressure
	Filter system needs cleaning.	Remove any accumulated or deposited foods. Check and clean them periodically.
	Oversudsing - Prewashing with a liquid dishwashing detergent.	Rinse items thoroughly before putting them in the dishwasher to remove dishwashing detergent.
	Insufficient amount of detergent.	Increase amount of detergent to inhibit suds caused by protein solid and washing action.
Small particles (food or detergent) left on items	Water not reaching surfaces, dishwasher overcrowded.	Check to be sure water action is not blocked by dishes. Check filter system for accumulated or deposited food or detergent. Load dishwasher correctly. Keep filter system clean.
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