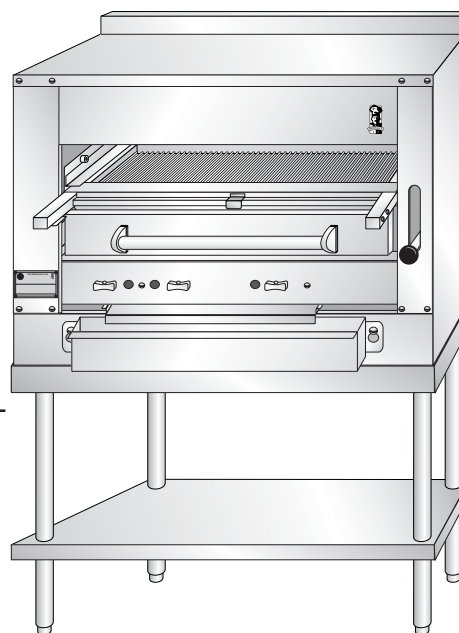




GAS FIRED BROILERS

36W36	235W36
43W36	243W36
136W36	C36
V136W36	C45



NOTICE

This manual is prepared for the use of Service Technicians and should not be used by those not properly qualified. This manual is not intended to be all encompassing. You should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure.

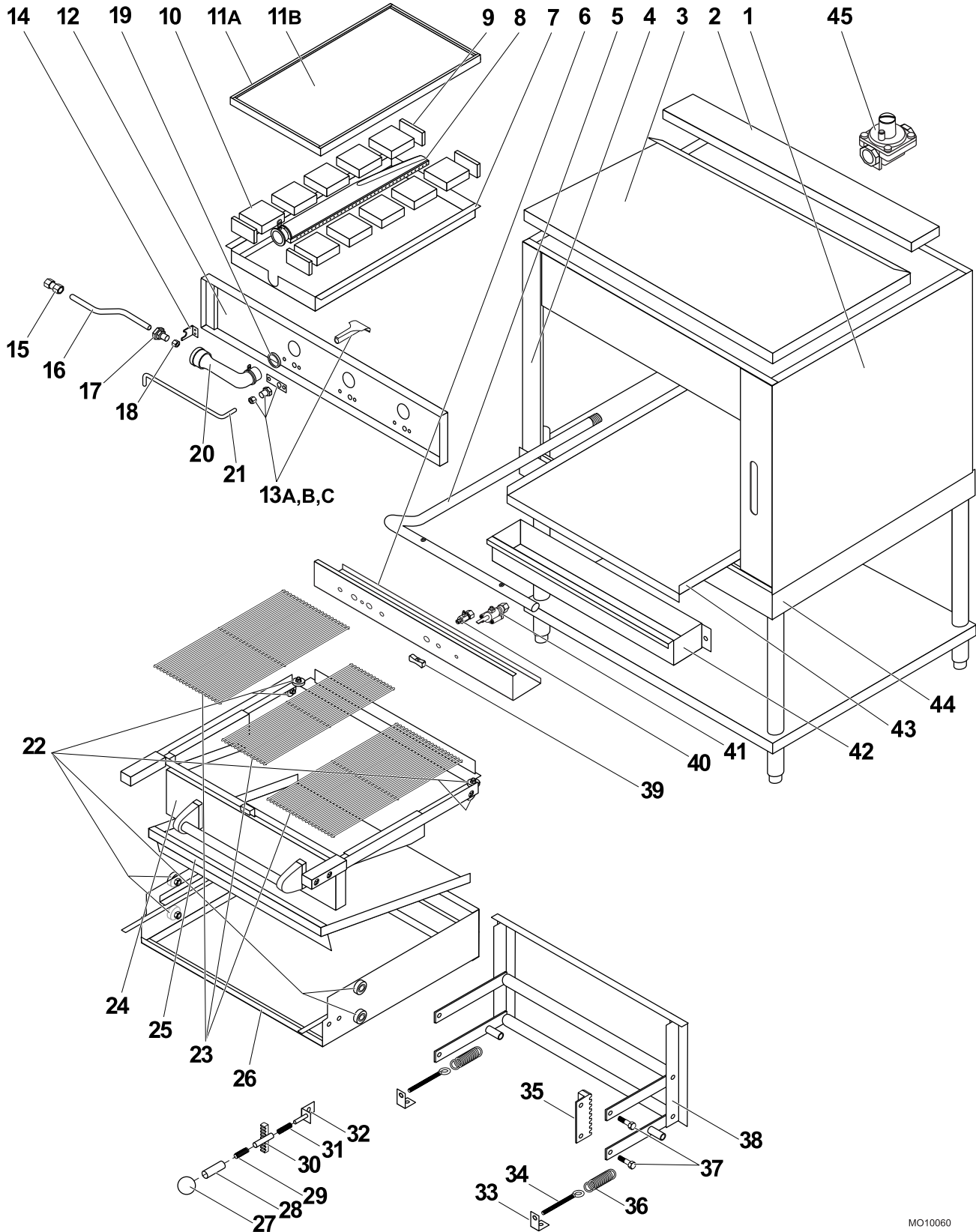
RETAIN THIS MANUAL FOR FUTURE REFERENCE.

TROUBLESHOOTING CHART

SYMPTOM	CAUSE	REMEDY
Pilot burner flames are burning yellow.	Gas too rich	Perform the <i>Pilot Burner Adjustment Procedure</i> .
	Clogged pilot air passages	Perform the <i>Pilot Burner Orifice Removal and Replacement Procedure</i> .
	Pilot not properly adjusted	Perform the <i>Pilot Adjustment Valve Adjustment Procedure</i> .
Pilot burner flames are less than or more than 1/2".	Pilot not properly adjusted	Perform the <i>Pilot Burner Adjustment Procedure</i> .
	Clogged pilot burner	Replace pilot burner.
One or more pilot burner flames cannot be adjusted.	Faulty pilot burner or orifice	Perform the <i>Pilot Burner Removal and Replacement Procedure</i> or <i>Orifice Removal and Replacement Procedure</i> as applicable.
	Faulty pilot valve	Perform the <i>Pilot Burner Valve Removal and Replacement Procedure</i> .
Burner flames burning yellow.	Incorrect gas pressure or secondary air	Check gas pressure. Adjust or clean air mixer.
One or more burner flames cannot be adjusted.	Dirty Venturi passage	Perform the <i>Main Burner Orifice Removal and Replacement Procedure</i> .
	Incorrect gas pressure	Check and adjust gas pressure.
	Ceramics cracked, broken or missing.	Replace damaged or missing ceramics. See <i>Installation & Operation Manual</i> .
	Faulty burner valve	Perform the <i>Main Burner Removal and Replacement Procedure</i> .

SYMPTOM	CAUSE	REMEDY
The heat of one or more burners is not uniform over the surface of the ceramic tiles.	Clogged burner ports	Clean burner ports or perform the <i>Main Burner Removal and Replacement Procedure</i> .
	Broken or missing ceramics	Replace broken or missing ceramics.
	Dirty venturi passage	Clean air mixer and venturi.
	Wrong gas pressure	Check and adjust gas pressure.
Carriage assembly will not stay at a set height position.	Improper handle spring tension adjustment	Perform the <i>Handle Tension Adjustment Procedure</i> .
	Worn or broken gear with bracket	Perform the <i>Gear with Bracket Removal and Replacement Procedure</i> .
Carriage assembly moves up and down too easily or too hard.	Improper carriage spring tension adjustment	Perform the <i>Carriage Tension Spring Adjustment Procedure</i> .

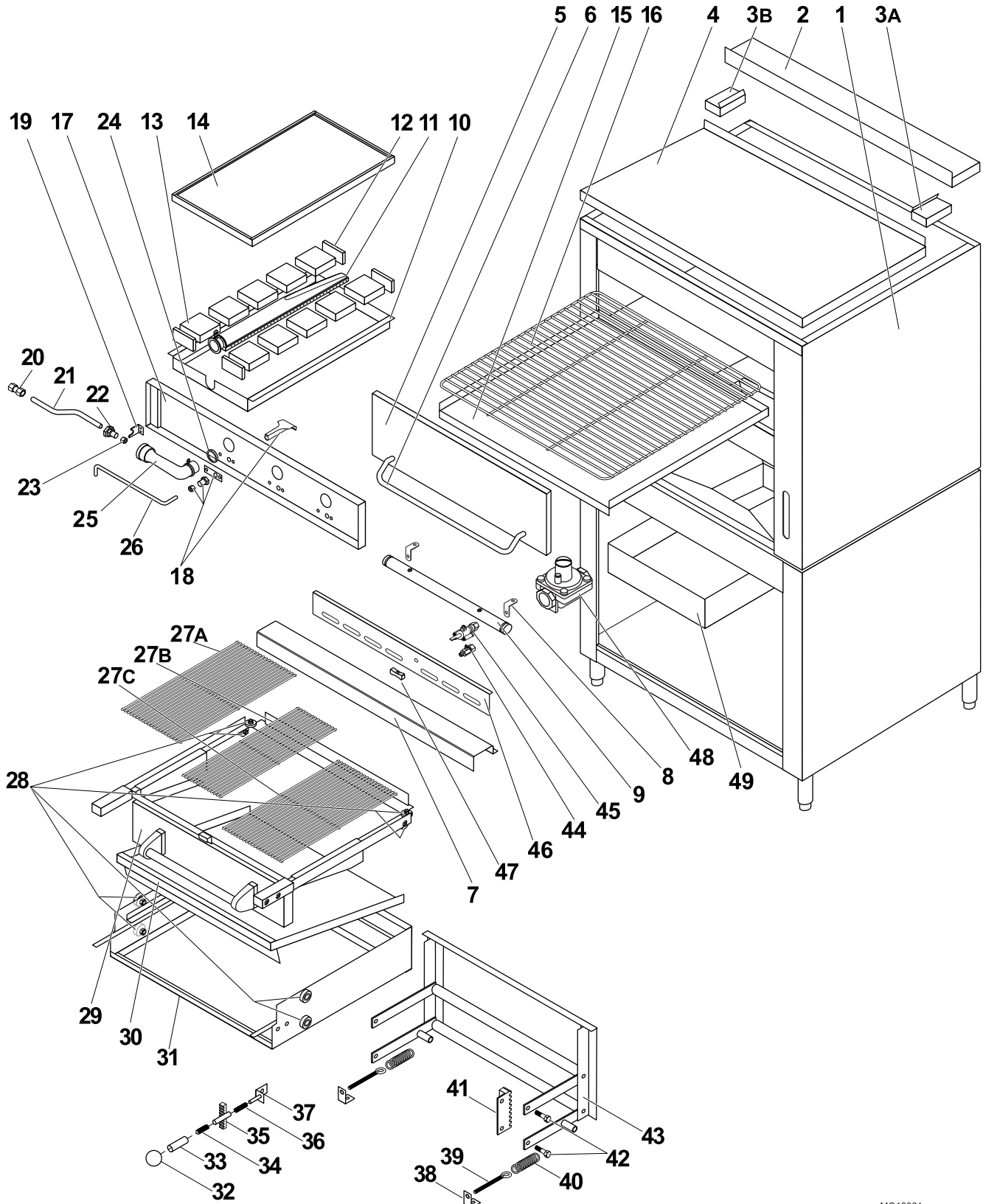
C36 & C45 EXPLODED VIEW



ITEM	PART NUMBERS		DESCRIPTION
	C36 236W36	C45 243W36	
1	12925-9	12925-9	PANEL, RIGHT SIDE
2A	25442-8	25442-8	FLUE, RIGHT SIDE
2B	25440-1	25440-1	FLUE, LEFT SIDE
2C	12610-1	15391-5	FLUE DEFLECTOR
3	15355-9	15385-0	EXTERIOR TOP
4	12923-2	12923-2	PANEL, LEFT SIDE
5	1100-2	1100-2	MANIFOLD
6	15367-2	15392-3	VALVE CONTROL PANEL
7	15211-0	15211-0	FRAME, BURNER ASSEMBLY
8	3511-4	3511-4	BURNER W/SET SCREW
9	11614-9	11614-9	INSULATOR, CERAMIC
10	11611-4	11611-4	CERAMIC, LARGE
10A	28387-8	28387-8	CERAMIC KIT (10 ea. 11611-4 Large Ceramics; 4 ea. 11614-9 Ceramic insulators)
11A	15352-4	15383-4	HEAT SHIELD
11B	1430-3	1430-3	INSULATION
12	151 82-3	15295-1	FIRE BOX FRONT ASSEMBLY
13A	11769-2	11769-2	PILOT BURNER HEX COMP. FITTING
13B	2193-8	2193-8	PILOT BURNER ORIFICE – NAT
13C	2194-6	2194-6	PILOT BURNER ORIFICE – LP
14	3397-9	3397-9	BRACKET, ORIFICE
15	1280-7	1280-7	UNION, TUBING
16	1252-1	1252-1	TUBING, STEEL
17	6378-9	6378-9	BURNER, ORIFICE HEX COMP. FITTING
18A	4342-0	4342-0	BURNER, ORIFICE – LP #49
18B	17130-1	17130-1	BURNER, ORIFICE – NAT #32
19	20923-6	20923-6	GASKET, VENTURI
20	15216-1	15216-1	VENTURI, AIR MIXER ASSEMBLY
21	1224-6	1224-6	TUBING, ALUMINUM
22	3396-0	3396-0	BEARING, W/ ASSEMBLY

ITEM	PART NUMBERS		DESCRIPTION
	C36 236W36	C45 243W36	
23A	1601-2	1601-2	GRID IRON, LEFT
23B	N/A	1602-0	GRID IRON, CENTER
23C	1600-4	1600-4	GRID IRON, RIGHT
24	38331-7	38040-7	GRID FRAME ASSEMBLY
25	2549-1	3548-3	DRIP DEFLECTOR
26	4655-8	4657-4	CARRIAGE ASSEMBLY
27	2033-8	2033-8	KNOB, BLACK BALL
28	3504-1	3504-1	HANDLE, SLEEVE
29	3506-8	3506-8	THREADED ROD
30	3503-3	3503-3	TUBE AND GEAR ASSEMBLY
31	32756-5	32756-5	SPRING, HANDLE
32	14442-8	14442-8	HANDLE ASSEMBLY BRACKET
33	15244-7	15244-7	CARRIAGE SPRING MTG. BRACKET
34	1938-0	1938-0	EYE BOLT
35	3507-6	3507-6	GEAR, W/ANGLE BRACKET
36	34258-0	2034-6	CARRIAGE SPRING
37	28365-7	28365-7	CARRIAGE BOLT
38	13096-6	13101-6	STABILIZER UNIT ASSEMBLY
39	2002-8	2002-8	VALVE HANDLE W/SET SCREW
40	1000-6	1000-6	VALVE, PILOT
41	1007-3	1007-3	VALVE, BURNER
42A	6604-4	6604-4	HORIZONTAL GREASE CONTAINER – PTD
42B	6603-6	6603-6	HORIZONTAL GREASE CONTAINER – S/S
43	15246-3	15366-4	DRIP TRAY
44	13064-8	13065-6	STAND, MODULAR – PTD
45A	14605-6	14605-6	GAS PRESSURE REGULATOR – NAT.
45B	1040-5	1040-5	GAS PRESSURE REGULATOR – LP

36W36 & 43W36 EXPLODED VIEW



ITEM	PART NUMBERS		DESCRIPTION
	36W36	43W36	
1	15168-8	15287-0	PANEL, BACK & SIDE
2	15233-1	32069-2	FALSE TOP, REAR
3A	15238-2	32075-7	FLUE, LEFT SIDE
3B	15239-0	32076-5	FLUE, RIGHT SIDE
4	15232-3	15232-3	FALSE TOP, FRONT
5	15609-4	31642-3	DOOR ASSEMBLY
6	3173-9	3173-9	HANDLE
7	15187-4	15305-2	GUARD RAIL ASSEMBLY
8	6137-9	6137-9	VALVE BRACKET
9	1073-1	15303-6	MANIFOLD
10	3544-0	3544-0	FRAME BURNER ASSEMBLY
11	3511-4	3511-4	BURNER W/HDW
12	11614-9	11614-9	CERAMIC INSULATOR
13	11611-4	11611-4	CERAMIC, LARGE
13A	28387-8	28387-8	CERAMIC KIT (10 ea. 11611-4 Large Ceramics; 4 ea. 11614-9 Ceramic insulators)
14	15359-1	15359-1	HEAT SHIELD
15	15223-4	31645-8	OVEN BOTTOM LINER
16	1604-7	1579-2	WIRE RACK
17	15182-3	15295-1	FIRE BOX FRONT ASSEMBLY
18A	11769-2	11769-2	PILOT BURNER ASSEMBLY – NAT
18B	15432-6	15432-6	PILOT BURNER ASSEMBLY – LP
18C	2193-8	2193-8	ORIFICE – NAT
18D	2194-6	2194-6	ORIFICE – LP
19	3397-9	3397-9	ORIFICE BRACKET ASSEMBLY
20	1280-7	1280-7	UNION, TUBING
21	1252-1	1252-1	TUBING, STEEL
22	6378-9	6378-9	HEX COMP. FITTING ASSEMBLY
23A	6377-0	6377-0	ORIFICE – NAT
23B	2278-0	2278-0	ORIFICE – LP
24	20923-6	20923-6	GASKET, VENTURI

ITEM	PART NUMBERS		DESCRIPTION
	36W36	43W36	
25	15216-1	15216-1	VENTURI
26	1231 -9	1231 -9	TUBING, ALUMINUM
27A	1601-2	1601-2	GRID IRON - LEFT
27B	N/A	1602-0	GRID IRON- CENTER
27C	1601-2	1601-2	GRID IRON - RIGHT
28	3396-0	3396-0	BEARING ASSEMBLY
29	32376-4	38040-7	GRID FRAME ASSEMBLY/BEARING
30	3547-5	3548-3	DRIP DEFLECTOR
31	4660-4	4661-2	CARRIAGE ASSEMBLY
32	2033-8	2033-8	KNOB, BLACK BALL
33	3504-1	3504-1	SLEEVE
34	3506-8	3506-8	THREADED ROD
35	3503-3	3503-3	TUBE AND GEAR ASSEMBLY
36	23753-1	23753-1	SPRING, HANDLE
37	14442-8	14442-8	HANDLE ASSEMBLY BRACKET
38	15244-7	15244-7	BRACKET, CARRIAGE SPRING
39	1938-0	1938-0	EYE BOLT
40	34258-0	2034-6	CARRIAGE SPRING
41	3507-6	3507-6	GEAR, W/ANGLE BRACKET
42	28365-7	28365-7	CARRIAGE BOLT
43	13108-3	13109-1	STABILIZER UNIT ASSEMBLY
44	1000-6	1000-6	PILOT VALVE
45	1007-3	1007-3	VALVE
46	15267-6	15333-8	PANEL, VALVE CONTROL
47	2002-8	2002-8	HANDLE, VALVE, W/SET SCREW
48A	14605-6	14605-6	REGULATOR, GAS PRESSURE – NAT.
48B	1040-5	1040-5	REGULATOR, GAS PRESSURE – LP
49	4291-9	4291-9	GREASE DRAWER, 14" X 26 1/2" X 4"