



# MARKET FORGE

I N D U S T R I E S I N C.

## R SERIES HEAVY DUTY RANGE PARTS AND SERVICE MANUAL

**EFFECTIVE DECEMBER 13, 2016**

Superseding All Previous Parts Lists.

The Company reserves the right to make substitution in the event that items specified are not available.

ERRORS: Descriptive and/or typographic errors are subject to correction.

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### MARKET FORGE INDUSTRIES

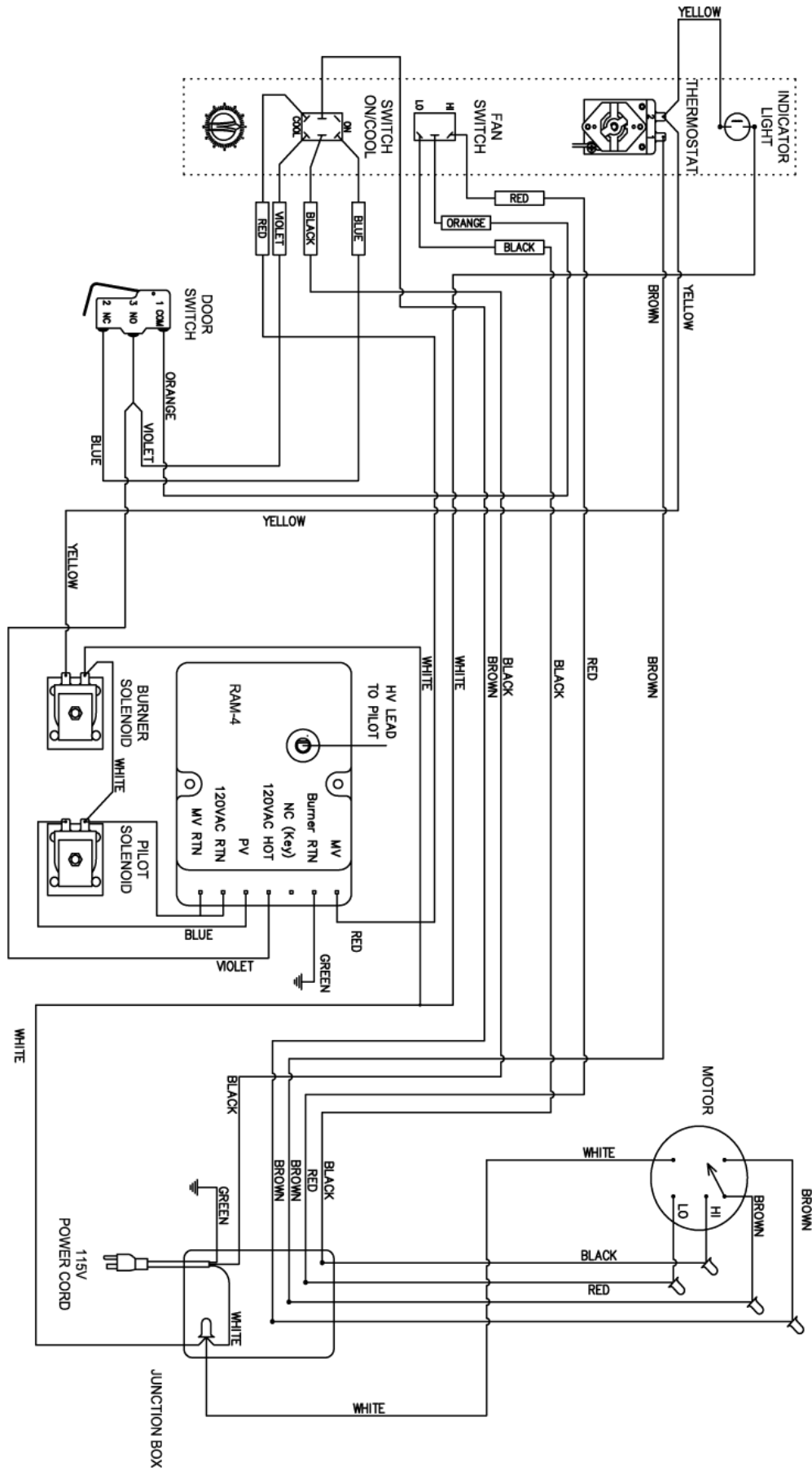
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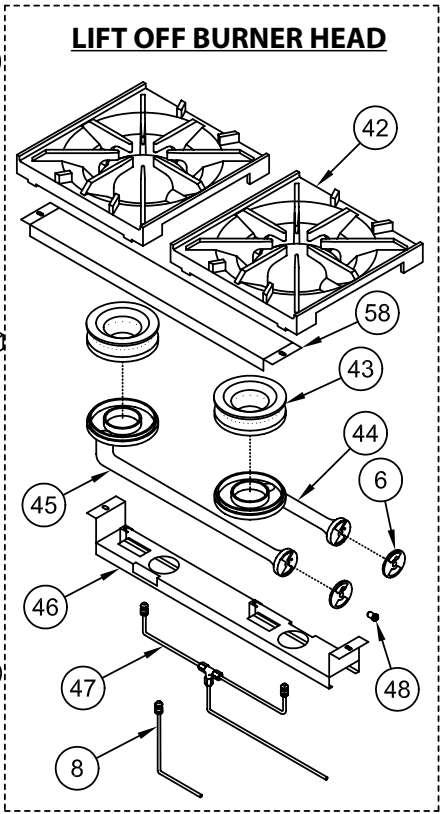
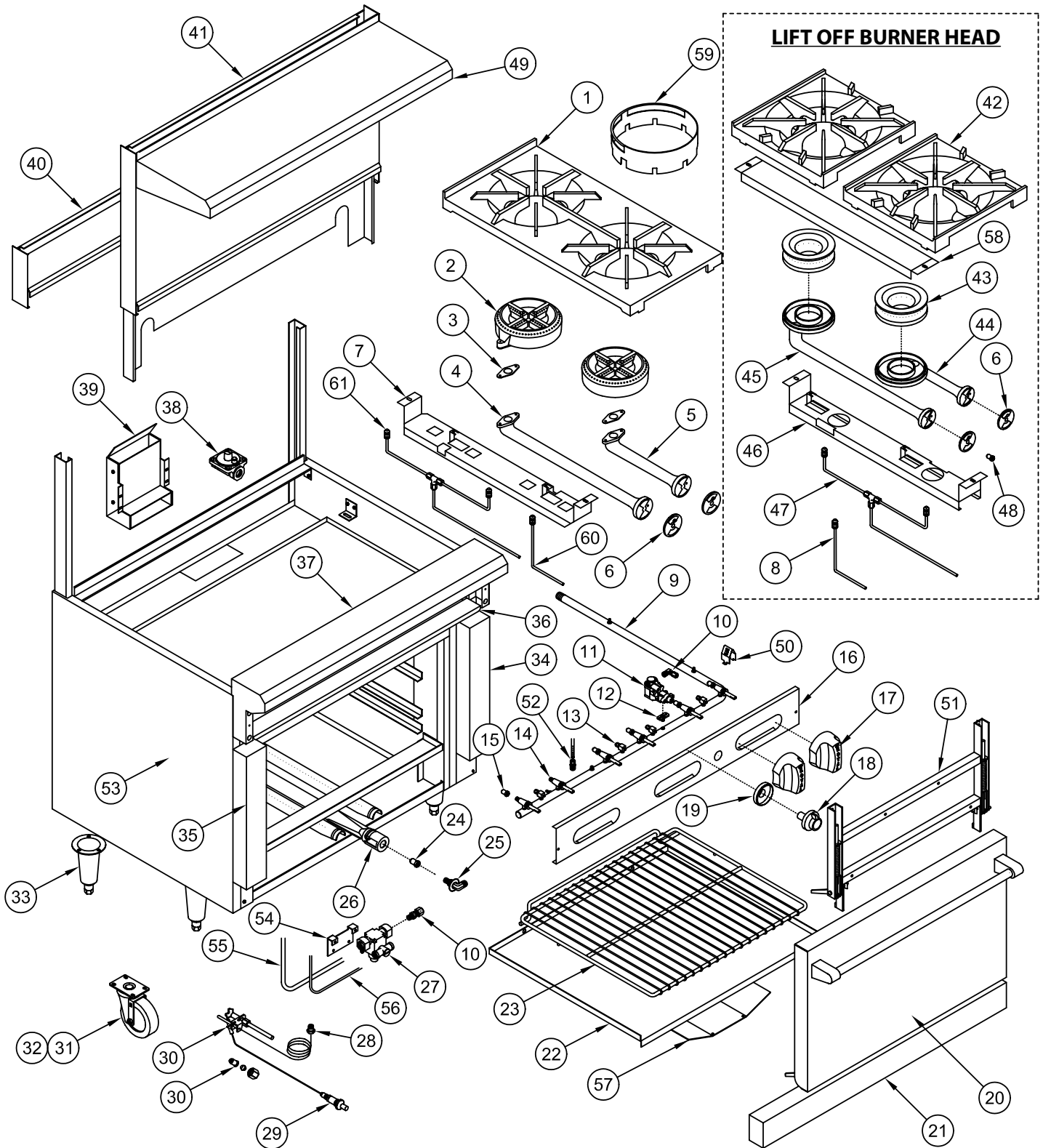
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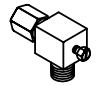



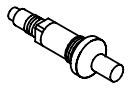

# CONVECTION OVEN WIRING DIAGRAM



ROYAL RANGE OF CALIFORNIA  
RR-C

# COMPLETE RANGE



90° ELBOW FITTING  10	B.J. THERMOSTAT  11	"T" FLANGE  12	90° PILOT VALVE  13	GAS VALVE  14	ORIFICE HOOD  15 24 48	 25	IGNITOR (OVEN)  29	PILOT (OVEN)  30
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# COMPLETE RANGE

ITEM	PART NO.	DESCRIPTION
1	93-5080	12" x 24" Top grate (cast iron)
2	93-5081	Open burner (head only)
3	93-5082	Open burner gasket & screw set
4	93-5083	18" Rear venturi (cast iron)
5	93-5084	6" Front venturi (cast iron)
6	93-5085	Air shutter (mixer)
7	93-5086	Burner hanger (open burner)
8	93-5087	Pilot assembly w/ferrule and compression nut (single burner)
9	93-5088	24" Manifold pipe
9	93-5089	36" Manifold pipe
9	93-5090	48" Manifold pipe
9	93-5091	60" Manifold pipe
9	93-5092	72" Manifold pipe
10	93-5093	1/4" NPT x 3/8" CC Straight Fitting (Brass)
11	93-5094	B.J. Thermostat (Oven Only)
11	93-5095	1/4" NPT Plug (used to block outlet on thermostat)
12	93-5096	B.J. Thermostat Flange Nipple
13	93-5097	1/8" NPT x 3/16"CC 90° Adj. Single Pilot Valve (Brass)
14	93-5098	Gas Valve (Brass) w/out Orifice
15	93-5099	Orifice Hood #42 Open Burner Natural Gas, 26,000BTU
15	93-5100	Orifice hood #53 Open burner propane, 26,000BTU
16	93-5101	24" Valve cover
16	93-5102	36" Valve cover
16	93-5103	48" Valve cover
16	93-5104	60" Valve cover
16	93-5105	72" Valve cover
17	93-5106	Blue Knob – Flat Side Down
18	93-5107	Thermostat Dial (Black) – Oven Only
19	93-5108	Thermostat Bezel (Chrome)
20	93-5109	24" Oven door (complete)
20	93-5110	36" Oven door (complete)
21	93-5111	24" Kick plate
21	93-5112	36" Kick Plate
22	93-5113	24" Oven bottom
22	93-5114	36" Oven bottom
23	93-5470	20" Oven Rack (after 5/1/2013)
	93-6005	20" Oven Rack (between 7/27/2010 and 5/1/2013)
	96-6004	20" Oven Rack (before 7/27/2010)
23	93-5471	26" Oven Rack (after 5/1/2013)

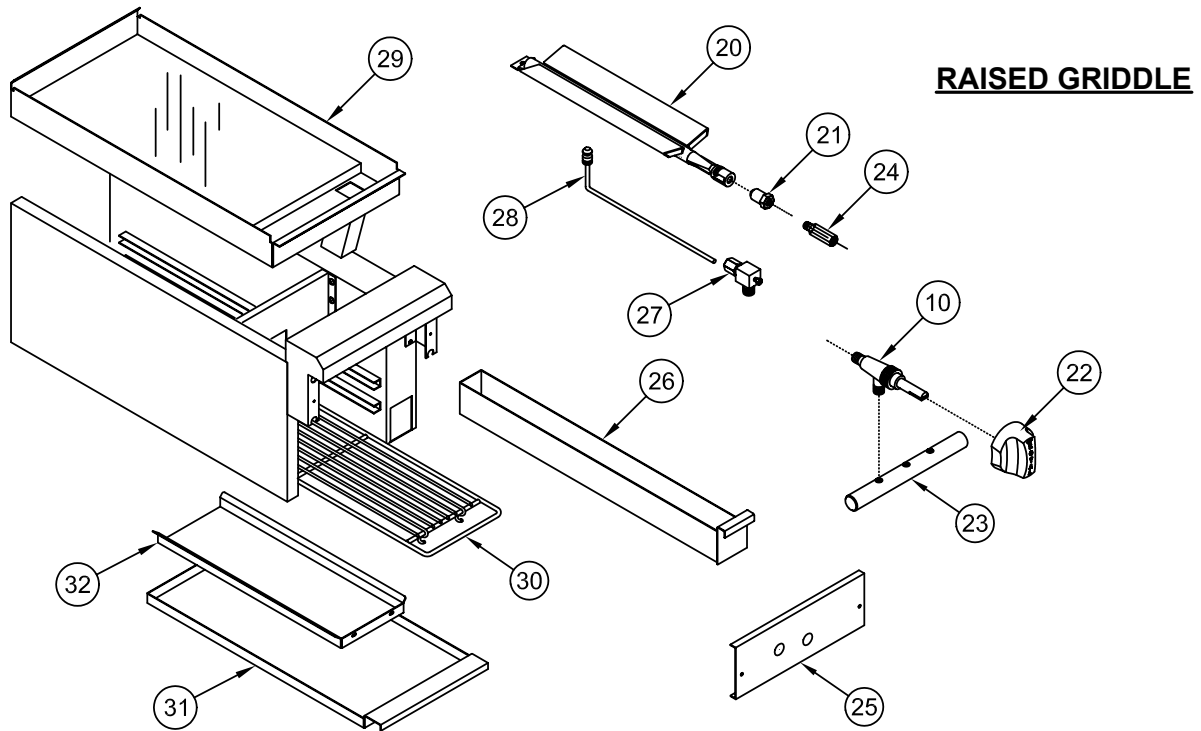
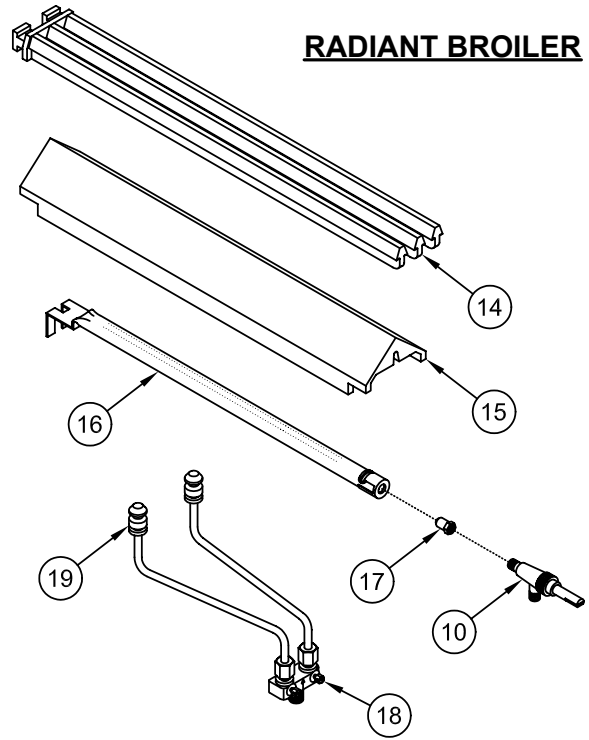
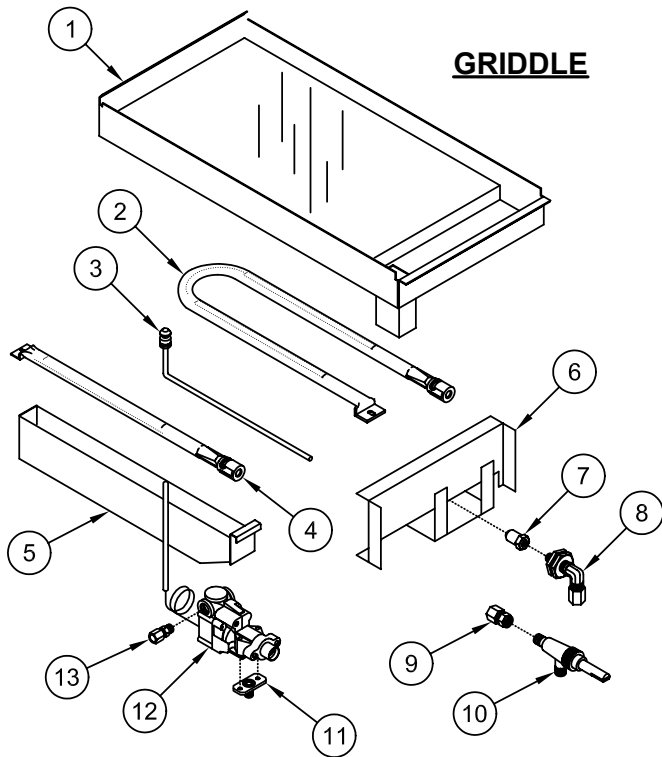
# COMPLETE RANGE

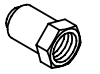

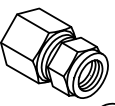


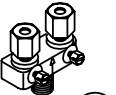


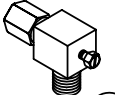
ITEM	PART NO.	DESCRIPTION
	93-6006	26" Oven Rack (before 5/1/2013)
24	93-5117	Oven burner # 36 Orifice (brass) natural gas
24	93-5055	Orifice Hood #50 (Brass) Propane 35,000 BTU
25	93-5119	90° Orifice Elbow Adapter 1/4" NPT x 3/8"-27 CC (Brass)
26	93-5120	"U" Burner (Oven)
27	93-5121	Oven safety valve with inverted flare nut and ferrule
28	93-5122	Thermocouple, 18" ( FRONT BURNER )
30	93-5124	Oven Pilot ( NAT )
30	93-5125	Oven Pilot ( PROPANE )
31	93-5126	Caster 5" w/brake
32	93-5127	Caster 5" without brake
33	93-5128	Chrome Cone Leg W/Adjustable Bullet Foot
34	93-5129	Filler panel – right side
35	93-5130	Filler panel – left side
36	93-5131	24" Crumb tray
36	93-5132	36" Crumb tray
36	93-5133	48" Crumb tray (Please order 2 ea. of part # 30008)
37	93-5134	24" Landing Ledge
37	93-5135	36" Landing Ledge
37	93-5136	48" Landing Ledge
37	93-5137	60" Landing Ledge
37	93-5138	72" Landing Ledge
38	93-5139	Gas Pressure Regulator ( NAT )
38	93-5140	Gas Pressure Regulator ( PROPANE )
39	93-5123	Manual Ppark Igniter w/Red Push Button
39	93-5141	Flue box assembly.
40	93-5142	24" Stub back assembly
40	93-5143	36" Stub back assembly
40	93-5144	48" Stub back assembly
40	93-5145	60" Stub back assembly
40	93-5146	72" Stub back assembly
41	93-5147	24" Back guard assembly
41	93-5148	36" Back guard assembly
41	93-5149	48" Back guard assembly
41	93-5150	60" Back guard assembly
41	93-5151	72" Back guard assembly
42	93-5152	12" x 12" Top grate (cast iron)
43	93-5153	Open burner – Lift off burner cap

# COMPLETE RANGE

ITEM	PART NO.	DESCRIPTION
44	93-5154	6" Front venturi – Lift off burner base (cast iron)
45	93-5155	18" Rear venturi – Lift off burner base (cast iron)
46	93-5156	Burner hanger – Lift off burner
47	93-5157	Pilot assy w/ferrule & compression nut (double burner)
48	93-5158	Orifice Hood #39 (Brass) Natural Gas 30,000 B.T.U.
48	93-5159	Lift off Burner # 52 Orifice Propane Gas, 30,000 BTU
49	93-5160	24" Shelf
49	93-5161	36" Shelf
49	93-5162	48" Shelf
49	93-5163	60" Shelf
49	93-5164	70" Shelf
50	93-5165	Thermostat bulb clip
50	93-5166	Door frame assy. (20" oven)
51	93-5167	Door frame assy. (26 1/2" oven)
52	93-5168	1/8" NPT X 3/16" CC Brass Fitting
53	93-5169	Left Side Panel
53	93-5170	Right Side Panel
53	93-5171	Safety Valve Bracket (PN: 2174)
54	93-5172	Safety valve bracket (PN: 2174-B)
55	93-5173	3/8" Aluminized tubing (Specify length of tubing)
56	93-5174	3/16" Aluminized tubing (Specify length of tubing)
56	93-5175	Oven flame spreader (26 1/2" oven)
57	93-5176	Oven flame spreader (20" oven)
58	93-5177	Top grate support bracket
59	93-5178	Wok ring
60	93-5179	Pilot assy w/ferrule and compression nut (single burner)
61	93-5180	Pilot assy w/ferrule and compression nut (double burner)

# GRIDDLE, RADIANT BROILER AND RAISED GRIDDLE



ORIFICE HOOD  7 14 18	ORIFICE ELBOW  8	GAS VALVE ADAPTER  9	GAS VALVE  10	B.J. THERMOSTAT  12	DUAL PILOT VALVE  18	GAS VALVE KNOB  22	ORIFICE ADAPTER  24	90° PILOT VALVE  27
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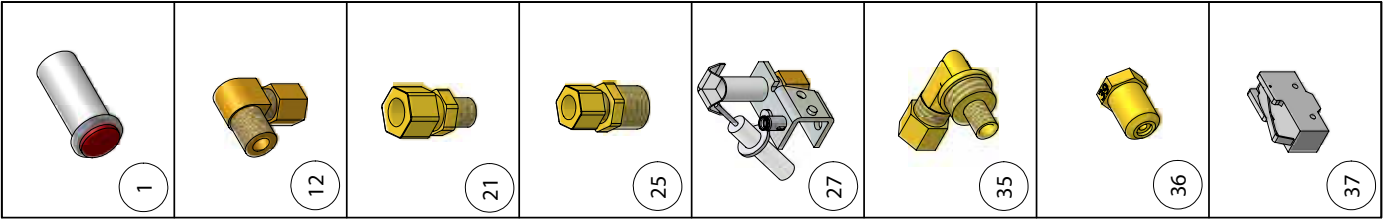
# GRIDDLE, RADIANT BROILER AND RAISED GRIDDLE

ITEM	PART NO.	DESCRIPTION
1	93-5181	12" Griddle plate assy. (Left)
1	93-5183	24" Griddle plate assy. (Left)
1	93-5185	36" Griddle plate assy. (Left)
1	93-5182	12" Griddle plate assy. (Right)
1	93-5184	24" Griddle plate assy. (Right)
1	93-5186	36" Griddle plate assy. (Right)
1	93-5187	48" Griddle plate assy. (Left)
1	93-5188	48" Griddle plate assy. (Right)
2	93-5189	"U" burner (range griddle only)
3	93-5190	Pilot tip and tube assembly, range griddle
4	93-5191	Straight burner (range griddle only)
5	93-5192	Grease can assy.
6	93-5193	12" Front baffle (Left)
6	93-5197	36" Front baffle (Left)
6	93-5195	24" Front baffle (Left)
6	93-5194	12" Front baffle (Right)
6	93-5196	24" Front baffle (Right)
6	93-5199	48" Front baffle (Left)
6	93-5200	48" Front baffle (Right)
6	93-5198	36" Front baffle (Right)
7	93-5201	Orifice Hood (griddle) #46 (Brass) Natural Gas, 20,000BTU
7	93-5202	Orifice hood (griddle) #55 (brass) propane, 20,000BTU
8	93-5203	Orifice Elbow 3/8" CC X 3/8"-27 (Brass)
9	93-5204	Adapter 3/8-27 x 3/8" CC (Gas Valve)
10	93-5098	Gas Valve (Brass) w/out Orifice
11	93-5096	B.J. Thermostat Flange Nipple
12	93-5207	B.J. Thermostat (griddle)
13	93-5093	1/4" NPT x 3/8" CC Straight Fitting (Brass)
14	93-5209	3" x 21" Top Grate (Cast Iron)
15	93-5210	Burner radiant (cast iron)
16	93-5211	Stainless steel burner w/ air shutter
17	93-5212	Orifice hood (RB) #50 (brass) natural, 15,000BTU
17	93-5213	Orifice hood (RB) #56 (brass) propane, 15,000BTU
18	93-5214	1/8" NPT x 3/16" CC Adjustable double pilot valve (brass)
19	93-5215	Pilot Tip Assembly
20	93-5216	Burner with radiant
21	93-5217	Orifice hood (RG) #50 (brass) natural, 20,000BTU
21	93-5213	Orifice hood (RG) #56 (brass) propane, 20,000BTU

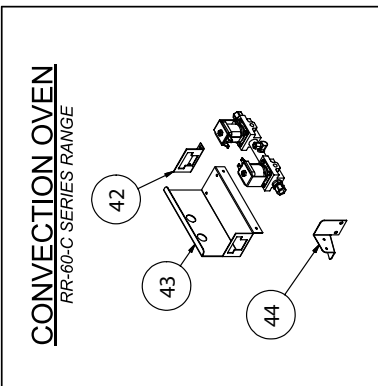
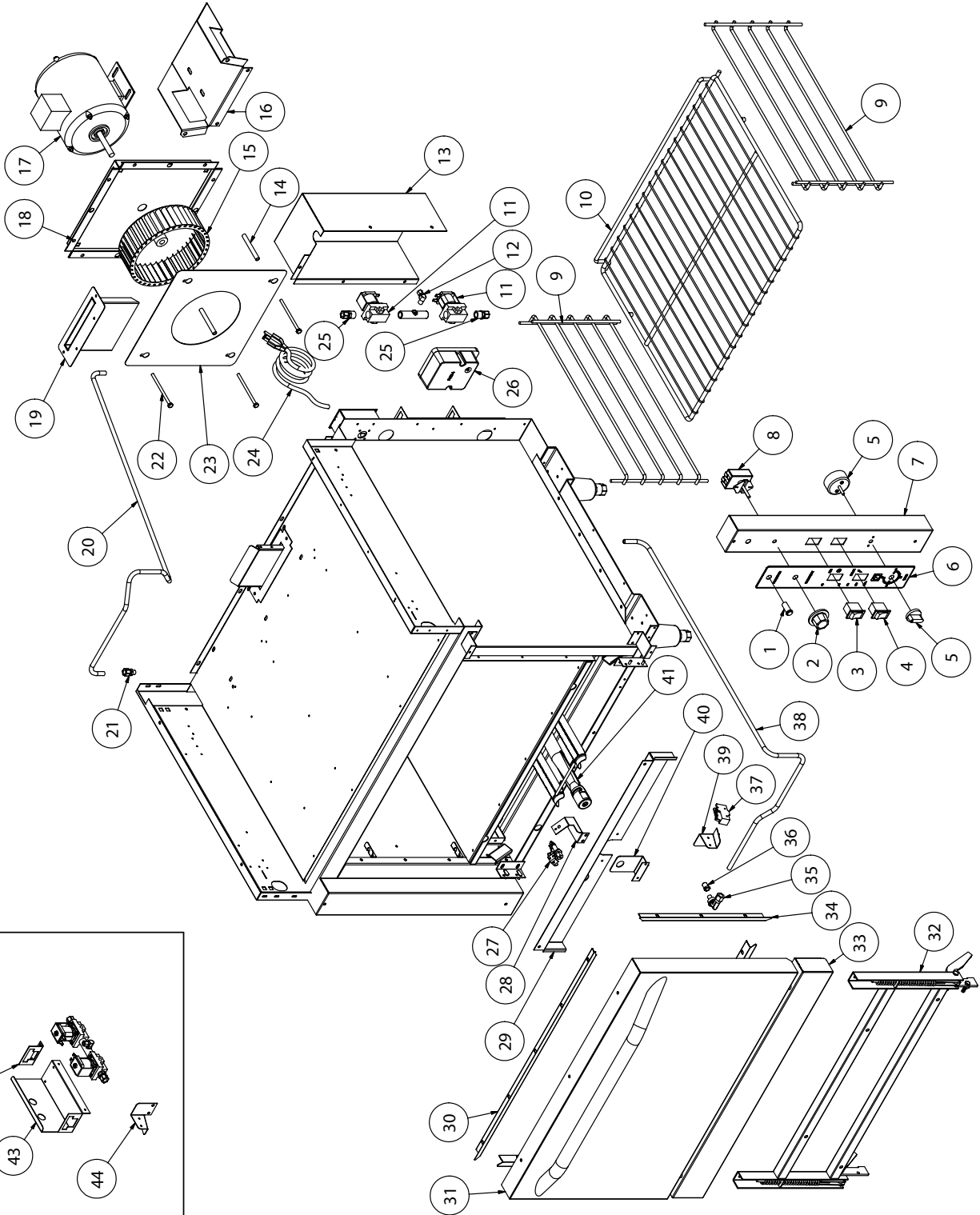
## GRIDDLE, RADIANT BROILER AND RAISED GRIDDLE

ITEM	PART NO.	DESCRIPTION
22	93-5219	Blue Knob – Flat Side Up
23	93-5220	RRG-12" Manifold Pipe
23	93-5221	RRG-24" Manifold Pipe
24	93-5093	1/4" NPT x 3/8" CC Straight Fitting (Brass) (Extension Fitting)
25	93-5223	RRG-12" Valve cover
25	93-5224	RRG-24" Valve cover
26	93-5225	RRG Grease can assy.
27	93-5097	1/8" NPT x 3/16"CC 90° Adj. Single Pilot Valve (Brass)
28	93-5227	Pilot tip and tube assembly, range raised griddle
29	93-5228	RRG-12" Griddle plate assy.
29	93-5229	RRG-24" Griddle plate assy.
30	93-5230	RRG-12" Rack
30	93-5231	RRG-24" Rack
31	93-5232	RRG-12" Crumb tray
31	93-5233	RRG-24" Crumb tray
32	93-5234	RRG-12" Drip pan
32	93-5235	RRG-24" Drip pan

# CONVECTION OVEN



## CONVECTION OVEN RR-C SERIES RANGE



# CONVECTION OVEN

ITEM	PART NO.	DESCRIPTION
1	93-5236	Indicator Light
2	93-5237	Dial Knob, Thermostat ( KX )
3	93-5238	Switch, Oven Fan High/Low
4	93-5239	Switch, Power - 3 position
5	93-5240	Manual Timer, 1 Hour
5	93-5241	Knob, Black w/Orange Dot ( Timer )
6	93-5242	Control Panel Decal
7	93-5243	Control Panel R/H For 36" Range
8	93-5244	Thermostat ( KX )
9	93-5245	Oven Rack Guide
10	93-5246	Oven Rack
11	93-5247	Solenoid Valve
12	93-5248	Brass Fitting - 1/4 CC X 1/8 NPT X 90 Degrees
13	93-5249	Module Cover
14	93-5250	Blower Spacer Tube
15	93-5251	Blower Wheel RR-C
16	93-5252	Motor Mount Bracket
17	93-5008	Motor
18	93-5254	Motor Mount Weld Plate Assy.
19	93-5255	Snorkel Tube Weld Assembly
20	93-5256	Manifold Tubing (Manifold To Solenoid 3/8 Aluminized Tubing)
21	93-5257	Straight Connector 3/8" CC X 1/8" NPT (Male Thread)
22	93-5258	Hex Head Shoulder Bolt ( 1/4-20 x 4")
23	93-5259	Blower Baffle Cover
24	93-5260	Power Cord
25	93-5261	Straight Connector (3/8 CC X 3/8 NPT) (Male Thread)
26	93-5262	RAM-4 Spark Module
27	93-5124	Oven Pilot ( NAT )
27	93-5125	Oven Pilot ( PROPANE )
28	93-5265	Pilot Bracket
29	93-5266	Oven Front Baffle
30	93-5267	Door Seals (Top—Bottom)
31	93-5268	Convection Base Oven Door (Complete Assy.)
32	93-5269	Convection Base Door Frame Assy.
33	93-5112	36" Kick Plate
34	93-5271	Door Seal Sides
35	93-5203	Orifice Elbow 3/8" CC X 3/8"-27 (Brass)
36	93-5158	Orifice Hood #39 (Brass) Natural Gas 30,000 B.T.U.

# CONVECTION OVEN

ITEM	PART NO.	DESCRIPTION
36	93-5159	Orifice Hood #52 (Brass) Propane Gas 30,000 B.T.U.
37	93-5275	Switch, Oven Door
38	93-5276	Burner Tubing 3/8 Diameter Aluminum
39	93-5277	Door Switch Bracket
40	93-5278	Oven Elbow Bracket
41	93-5120	"U" Burner (Oven)
42	93-5280	Solenoid End Bracket
43	93-5281	Solenoid Bracket
44	93-5282	Door Switch Bracket L/H for RR-60-C