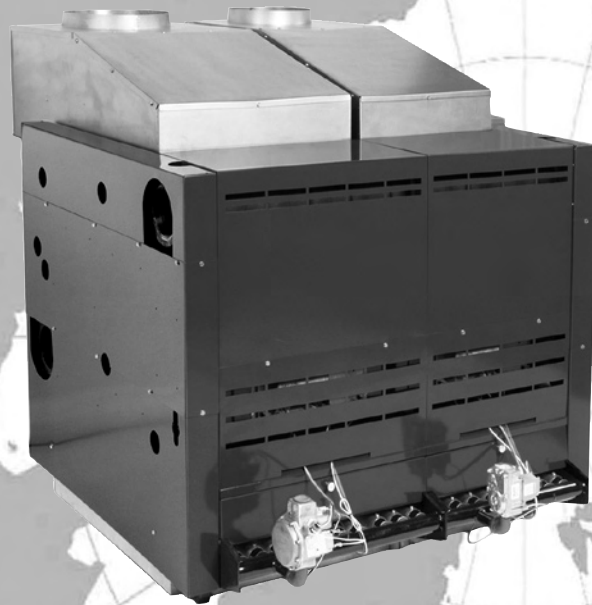


CAST IRON COMMERCIAL HOT WATER OR STEAM BOILER

REPAIR PARTS MANUAL



 An **ECR International Brand**
An ISO 9001-2000 Certified Company



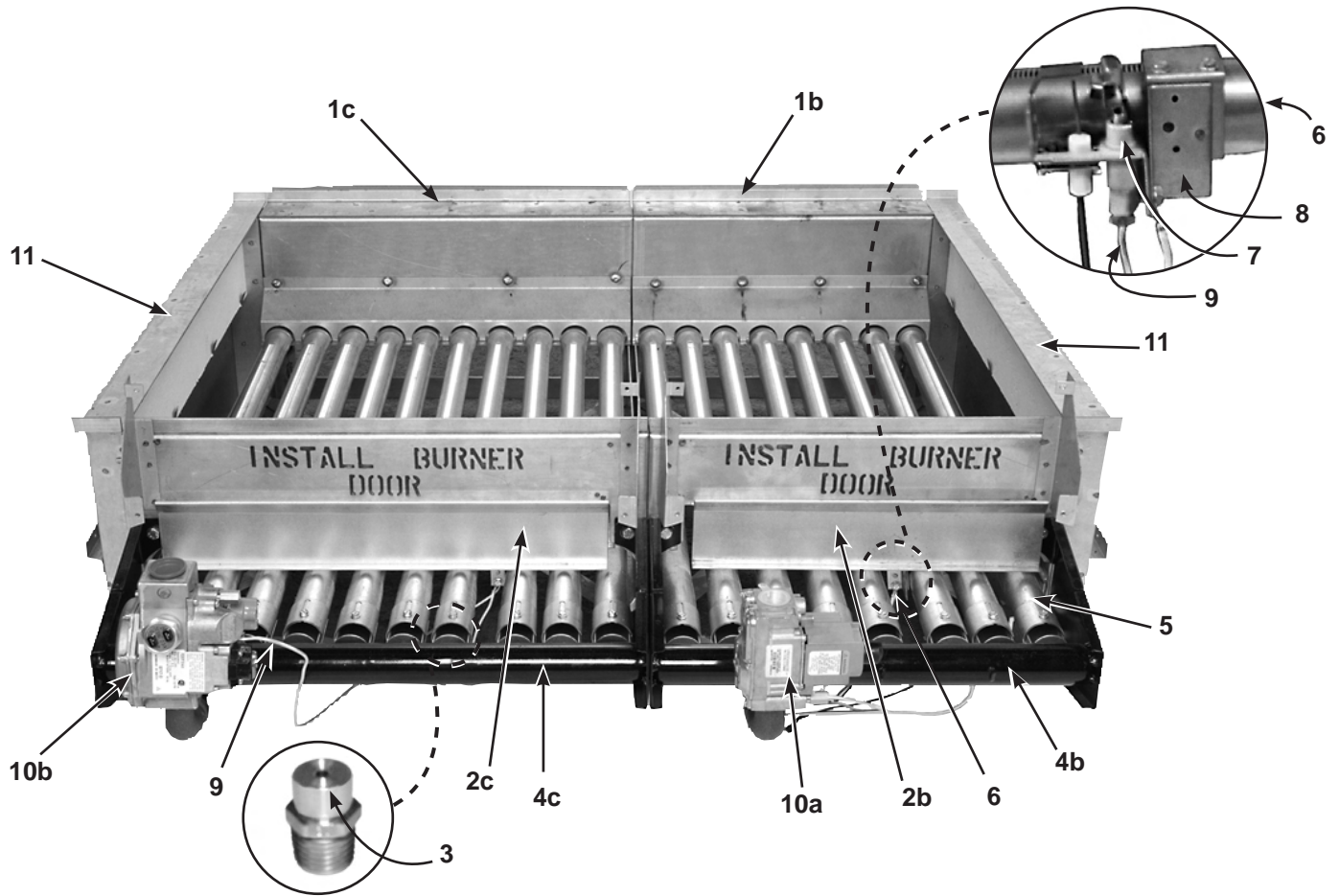
P/N# 240006858, Rev. 1.0 [07/07]

COMPLETE BOILER MATERIAL LIST

MODEL	SECTIONS			COMPONENT CART.			WATER TRIM CARTON	STEAM TRIM CARTON	AC CARTON	JACKET END PANEL CARTON	BASE END PANEL CARTON
	L	INNER	R	QTY. 300	QTY. 400	QTY. 500					
300	1	2	1	1	-	-	WA-1	SA-1	300	1	1
400	1	3	1	-	1	-	WA-1	SA-1	400	1	1
500	1	4	1	-	-	1	WA-1	SA-1	500	1	1
600	1	5	1	2	-	-	WA-1	SA-2	600	1	1
700	1	6	1	1	1	-	WA-2	SA-2	700	1	1
800	1	7	1	-	2	-	WA-2	SA-3	800	1	1
900	1	8	1	-	1	1	WA-2	SA-3	900	1	1
1000	1	9	1	-	-	2	WA-2	SA-3	1000	1	1
1100	1	10	1	1	2	-	WA-2	SA-3	1100	1	1
1200	1	11	1	-	3	-	WA-3	SA-3	1200	1	1
1300	1	12	1	1	-	2	WA-3	SA-3	1300	1	1
1400	1	13	1	-	1	2	WA-3	SA-3	1400	1	1
1500	1	14	1	-	-	3	WA-3	SA-4	1500	1	1
1600	1	15	1	-	4	-	WA-3	SA-4	1600	1	1
1700	1	16	1	1	1	2	WA-4	SA-4	1700	1	1
1800	1	17	1	-	2	2	WA-4	SA-4	1800	1	1
1900	1	18	1	-	1	3	WA-4	SA-4	1900	1	1
2000	1	19	1	-	-	4	WA-4	SA-4	2000	1	1
2100	1	20	1	2	-	3	WA-4	SA-4	2100	1	1
2200	1	21	1	-	3	2	WA-4	SA-4	2200	1	1
2300	1	22	1	-	2	3	WA-4	SA-4	2300	1	1
2400	1	23	1	-	1	4	WA-4	SA-5	2400	1	1
2500	1	24	1	-	-	5	WA-4	SA-5	2500	1	1
2600	1	25	1	2	-	4	WA-4	SA-5	2600	1	1
2700	1	26	1	1	1	4	WA-5	SA-5	2700	1	1
2800	1	27	1	-	2	4	WA-5	SA-5	2800	1	1
2900	1	28	1	-	1	5	WA-5	SA-5	2900	1	1
3000	1	29	1	-	-	6	WA-5	SA-5	3000	1	1

WATER KIT		STEAM KIT		LESS LWCO
WA-1	41200071	SA-1	41200061	41200066
WA-2	41200072	SA-2	41200062	41200067
WA-3	41200073	SA-3	41200063	41200068
WA-4	41200074	SA-4	41200064	41200069
WA-5	41200075	SA-5	41200065	41200070

BASE MATERIAL LIST



No.	PARTS DESCRIPTION	STOCK NO.	QUANTITY		
			300	400	500
1a	300 Base <i>(Not Shown)</i>	42557123	1	-	-
1b	400 Base	42557124	-	1	-
1c	500 Base	42557125	-	-	1
2a	300 Fire Door <i>(Not Shown)</i>	42557133	1	-	-
2b	400 Fire Door	42557134	-	1	-
2c	500 Fire Door	42557135	-	-	1
3	Orifice #30 <i>(In Manifold)</i>	14615310	6	8	10
4a	300 Manifold <i>(Not Shown)</i>	240006633	1	-	-
4b	400 Manifold	240006634	-	1	-
4c	500 Manifold	240006635	-	-	1
5	Main Burner	14615302	5	7	9
6	Main Burner with Pilot Bracket	14615301	1	1	1
7	Pilot with Ignition Wire	14662099	1	1	1
8	Pilot Mounting Bracket	42557029	1	1	1
9	Pilot Tubing	14615005	1	1	1
10a	VR8304M Gas Valve <i>(300 & 400 Base)</i>	14662315	1	1	-
10b	7000 DERHC Gas Valve <i>(500 Base)</i>	14663001	-	-	1
11	Base End Panels <i>(Left & Right)</i>	42557119	-	-	1

ACCESSORY CARTON

BOILER MODEL NUMBERS AND QUANTITIES

PARTS DESCRIPTION	STOCK NO.	UNIT	BOILER MODEL NUMBERS AND QUANTITIES																											
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
4" Push Nipples	43300977	Ea.	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
5/8" - 11NC x 7 Stud	14695304	Ea.	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
5/8" - 11NC Hex Nut	1330005	Ea.	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120
5/8" Flat Washer	14695306	Ea.	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120
Furnace Cement - Pint	1440001	Ea.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4
FB-1 Fitting Bag	--	Ea.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-2 Fitting Bag	--	Ea.	-	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-3 Fitting Bag	--	Ea.	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-4 Fitting Bag	--	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
FB-5 Fitting Bag	--	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
FB-6 Fitting Bag	--	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
User's Information Manual	19817	Ea.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Installation Instructions	240006636X	Ea.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3/4" Drain Valve	14622001	Ea.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nipple Paste - 4oz.	14691302	Ea.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
High Gas Pressure Switch	14662314	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1
1" Sq. Head Plugs	1395004	Ea.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Junction Box Assembly 1-3 Base	550001804	Ea.	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Junction Box Assembly 4,5,6 Base	550001806	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250VA Transformer	550001803	Ea.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hercules Gripp 1/4 Pint	14691302	Ea.	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3

MATERIAL LISTS

CONTROL ASSEMBLY			
NO.	PARTS DESCRIPTION	300&400 Base	500 Base
	Control Panel Assembly	550001801	550001802
1	Intermittent Pilot Module	14662070	14662070
2	Spark Control Harness	240006625	240006625
3	Control Mounting Panel	109006832	109006832
4	Base Power Harness	240006732	240006732
5	Harness Gas Valve	240006624	240006891

250VA TRANSFORMER ASSEMBLY			
NO.	PARTS DESCRIPTION	STOCK NO.	Quantity
	Transformer Assy	550001803	1600-3000
1	Mounting Bracket	109006825	1
2	Transformer	1551005	1
3	Harness	240006696	1

JUNCTION BOX ASSEMBLY				
NO.	PARTS DESCRIPTION	STOCK NO.	QUANTITY	
			300-1500	1600-3000
	Junction Box Assembly 1-3 Base	550001804	1	-
	Junction Box Assembly 4-6 Base	55001806	-	1
1	Junction Box	109006843	1	1
2	Box Cover	109006844	1	1
3	Terminal Block	212000014	1	1
4	Ground Lug	212000015	1	1
5	Transformer 75VA	550001880	1	-
6	Harness, Relay Power	240006697	1	1
7	Harness, Transformer	240006698	-	1
8	Harness, Main Burner	240006699	1	1
9	AR822II Control Board	240006685	1	1
10	Relay on AR822II	R35C	1	1

STEAM TRIM CARTON								
PARTS DESCRIPTION	STOCK NO.	UNIT	CARTON NO.					
			SA-1	SA-2	SA-3	SA-4	SA-5	
67D-1 McDonnell & Miller LWCO	14626042	Ea.	1	1	1	1	1	
PA404A Pressuretrol	14662015	Ea.	1	1	1	1	1	
#20-104 Water Gage Set	14622010	Ea.	1	1	1	1	1	
5/8" x 7.3/4" Glass Only for Item #3	14622010	Ea.	1	1	1	1	1	
3/16" x 10" Lg. Rods for Item #3	14622010	Ea.	2	2	2	2	2	
2.1/2" Round Steam Gage	14623006	Ea.	1	1	1	1	1	
3/4" x 3/4" Pop Safety Valve	1570001	Ea.	1	-	-	-	-	
1" x 1" Pop Safety Valve	1570002	Ea.	-	1	-	-	-	
1.1/4" x 1.1/2" Pop Safety Valve	1570003	Ea.	-	-	1	-	-	
1.1/2" x 2" Pop Safety Valve	1570004	Ea.	-	-	-	1	-	
2" x 2" Pop Safety Valve	1570005	Ea.	-	-	-	-	1	
1/4" Brass Syphon Loop	14643005	Ea.	1	1	1	1	1	
1/4" Brass Tee	14693057	Ea.	1	1	1	1	1	
1/4" x 2" Brass TBE Nipple	14607054	Ea.	1	1	1	1	1	

MATERIAL LISTS

WATER TRIM CARTON MATERIAL LIST

PARTS DESCRIPTION	STOCK NO.	UNIT	CARTON NO.				
			WA-1	WA-2	WA-3	WA-4	WA-5
L4006A Aquastat	240006706	Ea.	1	1	1	1	1
Well for Aquastat	14662804	Ea.	1	1	1	1	1
Water Temperature/Pressure Gauge	1260006	Ea.	1	1	1	1	1
1/2" x 1/4" Bushing	1060001	Ea.	1	1	1	1	1
3/4" x 3/4" Relief Valve	14622011	Ea.	1	-	-	-	-
3/4" x 1" Relief Valve	14622311	Ea.	-	1	-	-	-
1" x 1.1/4" Relief Valve	14622312	Ea.	-	-	1	-	-
1.1/4" x 1.1/2" Relief Valve	14622313	Ea.	-	-	-	1	-
1.1/2" x 2" Relief Valve	1570028	Ea.	-	-	-	-	1

COMPONENT CARTON MATERIAL LIST

PARTS DESCRIPTION	STOCK NO.	UNIT	MODEL		
			300	400	500
300 Base Assembly	550001667	Ea.	1	-	-
400 Base Assembly	550001668	Ea.	-	1	-
500 Base Assembly	550001669	Ea.	-	-	1
300 Intermediate Jacket Carton	550001673	Ea.	1	-	-
400 Intermediate Jacket Carton	550001674	Ea.	-	1	-
500 Intermediate Jacket Carton	550001675	Ea.	-	-	1
300 Draft Hood	42557113	Ea.	1	-	-
400 Draft Hood	42557114	Ea.	-	1	-
500 Draft Hood	42557115	Ea.	-	-	1
Control Panel Assembly 300/400	550001801	Ea.	1	1	-
Control Panel Assembly 500	550001802	Ea.	-	-	1
Top Front Panel Assy 300	109006881	Ea.	1	-	-
Top Front Panel Assy 400	109006882	Ea.	-	1	-
Top Front Panel Assy 500	109006883	Ea.	-	-	1

BASE END PANEL CARTON MATERIAL LIST

NO.	PARTS DESCRIPTION	STOCK NO.	QUANTITY
	Base End Panel Carton	42557119	
1	Left Base End Panel	42557100	1
2	Right Base End Panel	42557101	1

JACKET END PANEL CARTON MATERIAL LIST

NO.	PARTS DESCRIPTION	STOCK NO.	QUANTITY
	Jacket End Panel Carton	550001876	
1	Panel End Left Upper	109007170	1
2	Panel End Left Middle	109007171	1
3	Panel End Left Lower	109007172	1
4	Panel End Right Upper	109007173	1
5	Panel End Right Middle	109007174	1
6	Panel End Right Lower	109007175	1

MATERIAL LISTS

FITTING BAGS MATERIAL LIST							
PARTS DESCRIPTION	STOCK NO.	FB-1	FB-2	FB-3	FB-4	FB-5	FB-6
#10 x 1/2" Self Tap Screws	14695074	60	70	80	90	100	120
#8 x 3/4" Self Tap Screws	14695003	2	2	2	2	2	2
5/16" - 18NC 3/4" Hex Head Bolts	1040001	8	12	16	20	24	28
5/16" - 18NC Hex Nuts	1330007	8	12	16	20	24	28
1/4" - 20NC x 1.1/2" J Bolts	14695303	1	2	3	4	5	6
1/4" - 20NC Hex Bolts	HW-003.02	1	2	3	4	5	6
Jacket Door Knobs	13702153	1	2	3	4	5	6
Knob Screws	14695004	1	2	3	4	5	6

ALTERNATE COMPONENT LIST		
NO.	PARTS DESCRIPTION	STOCK NO.
1	Steam Manual Reset Pressure Control (L404C-1147)	14662311
2	LWCO and Feeder #47-2 (Models 300-1500)	1280001
3	Water High Limit Control with Manual Reset – (L4006E-1109 and well)	43300520
4	Strap-on Operating Control (L6006C-1034)	14662313
5	LWCO with Manual Reset (PS852M-24) – to eliminate the 67D LWCO	14626305
6	50 PSI Relief Valve (in place of 30 PSI)	14622315
7	ARGO AMB-4 Modular Boiler Control Kit – To allow stage firing of up to 4 bases (Water Boilers Only). Includes outdoor reset, priority override and lead boiler rotation. (Refer to AMB manual for parts list)	550001730 <u>X</u> *
8	ARGO AMB-8 Modular Boiler Control Kit – To allow stage firing of up to 8 bases (Water Boilers Only). Includes outdoor reset, priority override and lead boiler rotation. (Refer to AMB manual for parts list)	550001731 <u>X</u> *
9	CSD-1 Gas Train (Refer to CSD-1 manual for parts list)	—

* X = U For JD Series
 D For D248 Series
 P For 41J Series

