

BURNERS

Burner Assembly



- High efficiency, low amp diesel burner
- "Clean Cut" fuel pump eliminates smoking
- Easy to adjust airbands

Part No.	Description
7-00030	14VDC, MHP, PGDC Units
7-00031	14VDC, MVC
7-00009	115V, AFG, VHW Units
7-00011	115V, AFG, with Cap Start Motor, Skids, PHWS
7-00012	115V, AFG, Hot Units
7-00013	115V, AFG, HOT, OHW, PHWS Units
7-00021	115V, AFG, VHW, VHWS Units
7-00090	230V, AFG, VHW, VHWS Units
7-00010	230V, SM, with 120V Solenoid, HOT, OHW, PHWS Units

115 / 230 Volt Oil Burners



- .4 to 3 GPH firing rate
- 6-1/4" blower fan 115V and 230V
- 3450 RPM pump/blower motor
- Solid state ignition
- Beckett "CleanCut" fuel pump with oil valve
- Air tube 2-3/4"
- UL recognized

Part No.	Description
307032	Beckett AFG 115
307036	Beckett AFG 230

12 Volt DC Oil Burner



- 12 Volt solid state ignition
- 1/6 HP
- 3450 RPM
- 4-1/4" Fan
- Beckett "CleanCut" fuel pump with oil valve

Part No.	Description
307059	Beckett 14V
307061	Beckett 13.5V with Electric Eye

NOTE: Proper operation requires an engine with 16+ Amp alternator and deep cycle battery on nightly, overnight recharge

Electrode / Insulator Assembly



Part No.	Beckett No.	Description
7-5780	5780	Std to 9", AC,A,FSR, SM
079535	5940	Std to 9", MB/MD
079536	5781	Std to 9", A & S
079548	578728	ADC Electrode
7-578726	578726	ADC Electrode
7-578727	578727	Electrode Kit AFG
7-578711	578703	Electrode Kit SM

Flex Couplings



Part No.	Beckett No.	Description
2-001449	2454	Flex Coupling 5/16 "A", (M/A)
079521	2290	Flex Coupling 7/16 "S", (J/H)
7-2433	2433	Flex Coupling 5/16 "S", (M/A)
079523	21282	Flex Coupling 7/16 "A", (J/H)
7-21405	21405	Flex Coupling 12 VDC

Beckett Misc. Parts

Part No.	Beckett No.	Description
079530	149	Electrode Clamps (ALL)
079542	5432	Flange, with Gasket (ALL)
079543	5850	Flange, Split Unl, A&S
7-3616	3616	Gasket, Universal, AMF
7-3416	3416	Gasket, Unit Mtg
7-5877	5877	Burner Housing, AFG/ADC
079595	5717 (51400)	Knurled Nut Kit, ADC
079677	51304	Transf Mtg Gasket, AFG
079674	31404	Transformer Clip
7-7006U	7006U	Cadcell Flame det
079684	7350U	Primary Control (7434U)
079675	3245	Transformer Spring
079629	AF90	Air Tube without Head
079573	5151501	Air Band (3 x 92 AFG)
7-51568	51568	Brush Kit 12V ADC

Blower Wheels



Part No.	Beckett No.	Description
079513	2288U	5-3/4D x 3-7/16W, SF-SM
7-2383	2383U	6-1/4D x 3-7/16W, SR
7-2999	2999U	4-1/4D x 2-1/2WAFG
7-21404	21404	4-1/4D x 2-7/16W, ADC

Burner Motors



48M

48N

Part No.	RPM	HP	Flange	Voltage	Wayne / Beckett No.
48M					
079602	3450	1/7	48M	115V	20627 / 2456U
079605	3450	1/4	48M	12V	N/A / 21539
079608	3450	1/7	48M	240V	20892 / 21174
079613	3450	1/6	48M	13.5V	21699U
079615	3450	1/5	48M	115/240V	N/A / 21345
079021	4500	1/5	48M	12VDC	21993-005 / N/A
48N					
079604	3450	1/4	48N	115V	N/A / 2364U
079609	3450	1/4	48N	115/240V	N/A / 21344
079611	3450	1/5	48N	240V	20328 / 2899
079612	3450	1/5	48N	115V	20554 / 2900
079021X	Kit, 12VDC/MET to Fasco				
Universal					
079022	3450	1/7	48M	110-60 Hz	Capacitor Start
7-0005	3450	1/5	48N	110/240V	Capacitor Start

Burner Tune-Up Kit



- Oil line – 8"
- Buss bars
- Buss bar bracket
- Electrodes pair with insulator
- Motor/pump coupler
- Insulator bushing
- Instructions
- J pump coupling end
- Tip setting gauge



Part No.	Wayne No.	Description
7-31156	31156	Burner Tune-up Kit

Blower Wheel



Part No.	Wayne No.	Description
7-20288	20288	5-3/16" x 3-7/16"
7-21854	21854	6-1/4" x 4-3/16"
7-20673	20673	4-1/4" x 3-1/8"
079003	21427-003	12V (Fasco)
7-21427	21427	(MET)

Wayne Burner Parts

Part No.	Wayne No.	Description
7-13286	13286	Electrode Pair
7-14733/34001	14733-001 14734-002	Electrode Assembly (Pair) with Buss Bars – G shape
7-12945	12945	Buss Bar – G shape
7-14344	14344	Burner Gasket
7-12484	12484	Universal Gasket
7-31421-001	31421-001	Burner Housing (E-Series)
079016	2689-11	Burner Flange "F"
7-13279	13279	Flex Coupler A Fuel Unit
079060	N/A	Coupler End (J Pump 7/16")
7-13360	13360	Trans Clip Screw
7-13038	13038	Trans Clip
7-2668-002	2668	Outer Air Band (8 Hole)
7-2669-002	2669	Inner Air Band (8 Hole)
078979	31702-014	Gun Assy, F/307007
7-21913-001	21913-001	Nozzle Adapter with legs MSR/DC

Common Parts - Beckett & Wayne



Part No.	Description
7-14451	Oil Line, 6.5", Copper
7-0020	Oil Line, 8", Copper
079525	Oil Line, 9.5", Copper
7-13494	Brass 90° Elbow 1/8" flare, 1/8" MPT
079067	Brass 90° Elbow 3/16 flare, 1/8" MPT
079020	Oil Pressure Gauge 0 - 200 psi
079051	(28737-1) Nozzle Adapter

Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 110V
- 8.5 lbs
- Traditional copper wire wound

Part No.	Beckett No.	Mounting	Voltage
079668	51343U	AFG	230V
079662	21376U	S-SF-SR-SM	120V
7-21176U	21176	SM	240V

Burner Ignitors



- Solid state technology
- 14,000 Volt spark
- Only .35 Amp @ 110V
- 1.7 lbs

Part No.	Beckett No.	Mounting	Voltage
079669	51501U	AFG/Lo Amp	115V
7-515241	51524U	ADC without CB	12VDC
079670	51499U	ADC with CB	12VDC
079707	51506U	SDC with Con BD	12VDC
7-51824	518240	SDC	120V
079687	51779U	SDC without CB	12VDC

*complete with Timer

Base Plates for Transformers & Ignitors



Part No.	Beckett
079644	A Trans/Ign
079645	S Trans/Ign
079646	E Trans/Ign
079647	M Trans/Ign

Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 110V
- 8.5 lbs
- Traditional copper wire wound

Part No.	Wayne No.	Mounting	Voltage
7-20358	20358	Side/EH-EHA	115V
079117	20593	Back/M-MSR	115V
7-21153	21153	Side/EH-EH	230V
079124	21665	10KVA/Side	115V

Burner Ignitors



- Solid state technology
- 14,000 Volt spark
- Only .35 Amp @ 110V
- 1.7 lbs

Part No.	Wayne No.	Mounting	Voltage
079111	31813-001	Side/EH-EHA	115V
079113	31812-001	Back/M-MSR	115V
079107	31813-002	Side/EH-EHA	220V
079109	31812-002	Back/M-MSR	220V
079106*	21985-001	Module Only	220V
079120	31812-003	Rear Mount	12V
079152	31813003	Side Mount (E)	12V

12 VDC KIP Fuel Solenoid Valve



- Brass body
- 12V DC coil
- 1/8" FPT I/O ports
- Conduit connector
- 5/64" orifice = 6 watt

Part No.	Description
079652	Fuel Solenoid Valve

Oil Solenoid Valve



- Unitized mounting on Suntec fuel pumps
- 1/8" FPT inlet
- 300 psi
- Uses standard SUNTEC coil

Part No.	Description
7-0009611	110V Oil Valve - R642
7-0009622	220V Oil Valve - R753
7-21441	12/24V Oil Valve - R261
079125	Flow Thru Connector Bolt
079126	Aluminum Seal Washer
079053X	110V Coil with Cord Set
079054X	230V Coil with Cord Set
079050X	12/24 Coil with Cord Set
7-21755U	115V Coil with CleanCut
079097	220V Coil with CleanCut
079098	12/24VDC Coil without Cord Set
7-3753895	Cord Set Only
079047	8mm Nut for Old Style Coil

Fuel Pumps



- Use with single or dual line systems
- Pressure adjustment valve

Part No.	Description	GPH	RPM	Rotation
Standard Pumps				
7-0009	A2VA7116	3	3450	RH
079031	A1VA7112	3	1725	RH
079033	A2VC7118	3	3450	LH
079036	A1YA7912	7	1725	RH
079037	A2YA7916	7	3450	RH
079028	A2RA7710	2.5	3450	RH
Pumps with Solenoid				
079038	A2VA2116 with 12V	3	3450	RH
079038-110	A2VA2116 with 110V	3	3450	RH
079038-220	A2VA2116 with 220V	3	3450	RH
Pump Replacement Parts				
7-3715732	3715732 Pump Fuel Screen (A2VA 7116)			
079055	3715744 Pump Fuel Screen (A2AVA 7916)			
7-3779801	3779801 Gasket Cover			
079164	Lip Seal			

CleanCut Fuel Pump



Simple design provides faster cleaning, more reliable cut offs, and cut ons. Cleaner operation-less soot. More reliable-fewer moving parts. Reduced motor load in start up. Higher capacity - 4 GPM at 100 psi.

- 100-200 psi - Factory set 100 psi
- Inlet pressure 10 psi
- Rated speed 3600 RPM
- Includes Built in solenoid with cord set

Part No.	Description
7-21844U	110 Volt
7-2184403U	220 Volt
7-00098	12 Volt

Burner Accessories



9-028008



9-4007



112059

9-40083

- Coil Clean removes lime and scale buildup and restores heating coil efficiency
- Soot-O-Magic help remove soot from coils
- Red Devil Soot Remover eliminates soot deposits

Part No.	Description
9-028008	Coil Clean 8 lb
9-4007	Soot-O-Magic, Stick
9-40083	Liquid Soot Remover, Red Devil, Pint - 16 oz
112059	Liquid Soot Remover, Red Devil, Quart - 32 oz

NOTE: No Air Freight shipments on the above items

Draft Diverters / Rain Caps



7-10031



7-10033

- Draft diverter prevents backdrafts, keeps cold air out
- Rain cap prevents water running down vent pipes
- Fits on standard stove pipe
- Hot dipped galvanized

Part No.	Description
7-1003	8", Round
7-10031	10", Round
7-10032	12", Round
7-10033	10", Exhaust Stack, Cap
7-10034	12", Exhaust Stack, Cap

Flue Adapters



7-10049



7-1004

- Used to vent exhaust from horizontal hot water machines
- Hot dipped galvanized
- Adapts to standard stove pipe

Part No.	Description
30-199*	8" without Stack, new style kit
7-10049	8" without Stack, new style
7-10071	10" without Stack, SLT/SLX
7-1004	8" with Stack, old style
7-10041	10" with Stack, old style

*Includes insulation and mounting hardware

BURNERS

Smoke Tester - Diagnostic Tool

The smoke tester gives you the ability to measure smoke (soot) density and adjust air flow and fuel pressure to optimize burner performance.



A properly tuned burner:

- Heats water more efficiently
- Doesn't build up soot in the coil
- Doesn't pollute the air
- Keeps your customers happy
- A tool that should be used by every serviceman in the industry.

Part No.	Description
449020	Smoke Tester
449019	Filter Paper Refill (40 sheet - 10 test per sheet)

"Snap" Fuel Nozzle Check Valve

Spring loaded "snap" check valve replaces filter element on fuel nozzle. Valve opens when fuel pump pressure reaches 130 psi and "snaps" shut when fuel pressure drops below 130 psi. Stops "smokey" burners at start up and eliminates "shut down" after burn.



- Reduces nozzle fouling caused by residual fuel in orifice
- Easy field installation in standard fuel nozzles
- Reduces soot build up in coil

Part No.	Description
079210	Snap Fuel Valve, 100 psi
079211	Snap Fuel Valve, 130 psi
079215	Snap Check Valve, 130 psi (5 pack)
079214	Snap Check Valve, 100 psi (5 pack)

Nozzle Accessories



Part No.	Description
079221	Nozzle Tray (Metal) (Open Top, 55-Compartment, Plastic)

Delavan Fuel Nozzles



Select proper size for maximum burner efficiency.

GPH	
079477	2.00 x 60°W
079479	1.65 x 80°W
079480	1.50 x 80°W
079481	1.75 x 80°W
079482	2.00 x 80°W
079483	2.25 x 80°W
079484	2.50 x 80°W
079486	2.75 x 80°W
079487	3.00 x 80°W
079490	4.00 x 80°W
079505	1.65 x 90°W
079492	2.00 x 90°W

NOTE: The above "W"
Nozzles are Stocked
All Sizes Are Available

GPH	60° A Hollow	60° B Solid	70° A Hollow	70° B Solid	80° A Hollow	80° B Solid	90° A Hollow	90° B Solid
.50	079225	079250	079275	-	079325	-	-	079400
.60	-	-	-	-	079326	079351	079376	-
.65	079227	-	-	-	079327	079352	079377	-
.75	-	079253	-	079303	7-0120	079353	079378	079403
.85	079229	079254	7-0104	-	079329	079354	-	079404
.90	079230	079255	-	-	079330	079355	079380	-
1.00	079231	079256	7-0105	079306	7-0121	079356	079381	079406
1.10	079232	079257	-	-	079332	079357	079382	079407
1.20	079233	079258	7-0106	-	7-0122	079358	-	-
1.25	079234	079259	-	079309	079334	079359	079384	079409
1.35	079235	079260	-	079310	079335	079360	079385	079410
1.50	079236	079261	7-01061	-	7-0123	079361	079386	079411
1.65	079237	079262	-	-	079337	079362	079387	079412
1.75	7-0116	079263	7-0107	079313	7-0124	079363	079388	7-0101
2.00	7-0117	-	-	079314	7-0125	079364	079389	7-0102
2.25	079240	079265	7-0108	079315	7-0126	079365	079390	079415
2.50	079241	079266	7-0109	-	7-0127	079366	079391	079416
2.75	079242	079267	-	-	7-0128	079367	079392	079417
3.00	-	-	079293	-	7-0129	079368	079393	079418
3.25	079244	-	079294	-	-	079369	079394	079419
3.50	-	079270	-	-	7-0119	079370	079395	079420
4.00	-	-	-	-	079346	079371	079396	079421
5.00	-	-	-	-	-	079373A	079398	-
6.00	-	-	-	-	-	079374	-	079425
6.50	-	-	-	-	-	079372	-	-
7.00	-	-	-	-	-	-	-	-
8.00	-	-	-	079324	-	-	-	-

Cycle Pilot

Gas Auto Relight Kits. Eliminate standing pilot in gas burners with a cycle pilot relight kit. Retro Fit Kit includes: Gas valve, flame sensor, electrode pilot relight and harness.



Part No.	Description
347425	24V Retrofit Kit (NG) 100,000 BTU
347418	24V Retrofit Kit (NG) 335,000 BTU
347379	24V Retrofit Kit (NG) 720,000 BTU
347416	Cycle Pilot Control (347425) 24V
347440	Cycle Pilot Control 120V
347446	Gas Ignition Electrode (24" Lead)

Gas Burner Rings - NG or LP Gas Jets

The Standard for Gas-Fired Pressure Washers. Impinged Jet Burner Rings offer the most efficient utilization of gas for heating water.



Gas Burner Ring

Part No.	Model No.	Jets Req'd	1000 BTUH
Gas Burner Rings Only			
347502	Z-21	20	100-200
347504	X-11	32	160-320
347506	X-44	44	220-440
347508	X-66	66	330-660
347510	X-88	88	440-880

NOTE: Gas jets sold separately.



Gas Jets

Part No.	Drill Size	Orifice Size	Use
Gas Jets for Burner Rings* (above)			
347552	#52	(.0635)	NG
347554	#54	(.055)	NG
347562	#62	(.038)	LP
347565	#65	(.035)	LP
347566	#66	(.033)	LP
347549	Blank (Must Be Drilled)		

Gas Valves - LP or Natural Gas

Universal type for building new systems or field replacement. 750 MV, 24V or 120V Controls by White-Rodgers.



347400

7-700021

- 335,000 BTU max
- 3/4" inlet/outlet
- All adjustments & wiring connections on top of valve
- Automatic outlet pressure regulator
- A.G.A. design certified, C.G.A. certified

Part No.	Description
7-700021	3/4" NEW 24V Honeywell
347400	Gas Valve 24V (1)
347410	Gas Valve 120V (2)
347412	Gas Valve 750 MV (1)
347423	3/4" LP Conversion Kit
7-70001	WR 36C03A-410, 3/4" White Rogers
7-70002	7000DERCH, 24V Robertshaw
7-7000HC	7000MVRHC, Robertshaw
7-7028	700522, (Hwg-75-1), 1" Robertshaw
7-7LPKIT	LPG Regulator Kit for Robertshaw

- (1) Includes two 3/4" x 1/2" all-thread plated bushings and valve instructions.
- (2) Includes L.P. Kit, two 3/4" x 1/2" and one 1/2" x 3/8" all-thread plated bushings and all instructions.

1" Gas Valves by Robert Shaw

Universal type for new equipment or replacement.



- Manual gas cock
- Auto pilot safety valve
- Wiring & hardware included
- Pilot gas filter
- 600,000 BTU LP gas
720,000 BTU Natural Gas
- 1" inlet/outlet

Part No.	Description
347406	240 Vac, NG, Standing Pilot
347407	24 Vac, NG, Standing Pilot
347403	24 Vac, NG, Electronic Ignition
347409	700 MV, Natural Gas

LP Conversion Kit on next page

LP Conversion Kit for Robert Shaw

Convert NG to LP



Part No.	Description
347421	1" LP Conversion Kit
347380	LP Orifice

Gas Valve Accessory Components

Use with both 3/4" and 1" models above.



Part No.	Description
7-70162	Ignitor, Piezo
7-70163	Electrode, Piezo Assembly
7-70164	Washer, Panel Adapter, Piezo
7-70165	Wire, 15" Assembly
7-70166	Wire, 15" Assembly
7-7017	Orifice, Pilot, LP, Small
7-7022	Jet, Orifice, 638-69
7-7023	Pilot Orifice, NG, Small
7-70230	Pilot, Orifice, NG, Large
347430	750 MV Generator
7-7CH	Pilot Assembly, VHP/VNG
7-70237	Pilot, Natural Gas Electronic
7-7034	Thermocouple, 24" White Rodgers
347438	Thermo Couple (with 36") Cap Tube
7-7036	Thermopile, VNG, 44 Mfg

Electronic Ignition



7-70151

- Replaces the need for standing pilot
- Field installation kit
- Complete instructions included

Part No.	Description
7-701510	Ignition Module - NEW
7-70151	Ignition, Electronic Control

Propane Tanks



7-1015

- 10.5 gallon / 30 lb
- With or without gauge
- Fits on *LANDA* propane machines
- For outdoor use only

Part No.	Description
7-1014	10.5 gal/ 30 lb
7-1015	10.5 gal/ 30 lb with Gauge

NOTE: No Air Freight shipments on the above items

Propane Gas Regulators



7-1010

- High quality Fischer regulators
- High and low pressure
- Available individually or in 7-1010 kit

Part No.	Description
7-1005	High Pressure
7-10050	Low Pressure
7-10052	Regulator, Propane Gas, Fisher, VHP Units
7-1010	L.P. Assembly: includes High/Low Pressure Assembly

Coils



- Cold rolled pipe, no weak points from heating to make bends
- Heavy-duty schedule 80 carbon steel pipe
- "Aluminized Steel" wrapper
- Best warranty in the industry

95-07121212

Part No.	Description
95-07121212	DuraCoil, Sch 80 with Aluminized Steel Wrap, Horizontal
95-07121218	DuraCoil 14.5" Dia, Sch 80, MVC, VHP
95-07121220	VNG-S after 4/99, new style, 18" dia., ENG,VNG, NG,VHG
95-07121222	DuraCoil, VNG, Large, after 3/97, new style ENG,VNG,NG
95-07121213V	VNG-S, 16" (5/89-3/99) Except 8-2500, 6-3000, old style
95-07121212V	VNG-S Except 8-2500, 6-3000, old style pre 5/89
7-7041	HWG-60 VNG6-3000, before 3/97, old style
7-7042	HWG-75 VNG8-2500, before 3/97, old style
95-071212111	GTO Replacement Coil
95-07121224	DuraCoil, 6-3,8-3 VNG/VHG for modulating thermo

Insulation & Rigid Disc / Donuts

Refractory Grade Ceramic **Kawool** Formed; retains heat inside coil for better fuel efficiency and paint protection.



Part No.	Description	TK/Long	Dia/Wide	OD/ID
"Rigid Formed" Donut & Discs				
122253	Donut	.88"	18"	6"/4.4"
122258	Donut	.88"	16"	6"/4.4"
122254	Disc	1/2"	18"	
122257	Disc	1/2"	16"	
Insulation Blanket				
122204	Coil Wrap	1"	24"	4'
122205	Coil Wrap	1"	24"	5'
122206	Coil Wrap	1"	24"	6'
122222	Full Roll	1/2"	24"	25'
122225	Full Roll	1"	24"	25'

Coil Insulation



- Refractory grade ceramic
- Retains heat inside coil for better fuel efficiency and paint protection

Part No.	Description
7-0140	Front Head, No Hole
7-0141	Burner Head, with Hole
7-0144	Gasket, Burner Plate
7-01470	Gasket, Skid Stackless Top
7-01471	Gasket, Stackless Adapter
7-01482	Tank Bottom, 1" Blanket, VHW, VHP
7-014832	Tank Head 16" OD x 8" ID, VHW, VHP
7-01401	Disk, Flash Pan, GTO (2 required)
7-0142	Blanket, with Foil sqft (10 sqft required)
7-01430	Blanket-No Foil, 24" x 57", Horizontal
7-01484	Blanket-Die Cut, 28" x 24", Horizontal
7-014841	Blanket-Die Cut, 33" x 89" (VNG)

Top & Bottom Wraps

- Stainless and mild steel



Part No.	Description
95-07121011S	Top, Yellow
95-07121014S	Top, Stainless Steel
95-07121012	Bottom, Yellow
95-07121015	Bottom, Stainless Steel
95-07290013	Outer, MVC
95-07290013S	Outer, Stainless, MVC