

Wayne 12volt Burner Assembly

Features:



- 12v solid state constant duty ignitor
- 12VDC, permanent magnet motor
- Flamelock results in improved efficiency and lower emissions
- Low nozzle temperatures
- Controlled flame pattern

- Firing capacity: 0.50 to 2.75 BPH
- Fuel pump: Compact 3450rpm, single stage
- Motor: 12VDC permanent magnet, 4500 rpm
- Ignition: 20,000v/28MA/50VA secondary

Part	Product
4137	MSR-DC

Wayne EHASR Burner Assembly

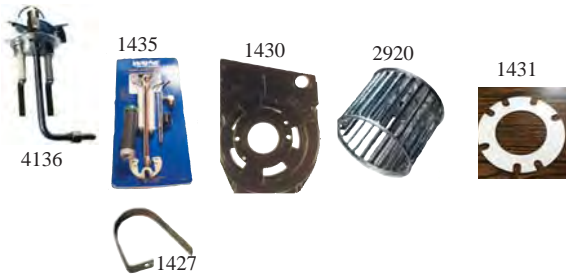


- Lower emissions
- Quiet stops and starts
- UL listed
- Firing cap: 0.75 to 3.00 BPH
- Fuel pump: 3450 RPM
- Motor: 3450 rpm
- Ignition: 10,000v/23MA

Fuel nozzle & solenoid sold separately

Part	Product	Volts	Fan
3603	239-001 EHASR	115	6-1/4"
3604	239-005 EHASR	230	6-1/4"

Wayne Burner Parts



Part	Product
4136	31762-005 Fuel gun assembly
1430	3142-001 Wayne E Housing 6.25"
1435	31156 Burner tune up kit (E&M)
1429	13286 Electrodes (2/pack)
1425	20288 Blower 3.44" x 5¼" Model E
1426	21854 Blower 6¼" x 4" Model E
2920	21427 Blower 12v 4¼" x 3½" ½" shaft
5591	10137 Blower 12v 4.5"x2.44" 5/16" shaft
1431	12484 Large standard gasket
1428	13279 Coupling, Model "E"
2604	14451 6" oil line assembly
2605	8" oil line assembly
1427	12945 SER buss bar, G-shape



GeniSys 12v advanced burner control is a 12Vdc primary safety control for oil burners used in special applications such as water heaters, pressure washers, crack sealers, and portable heaters having firing rates less than 5.5 GPH.

- Used with a suitable cad cell flame sensor to control the oil burner motor, ignitor, and optional solenoid valve.
- Has 12 volt enable input compatible with mechanical and high limit switches.
- Can provide interrupted or intermittent duty ignition, and it has a 15 second lockout time on flame failure

Contractor Tool

- With sturdy shock absorbing design made for the contractor's tool box
- Enables contractor to access the advanced features of the GeniSys control. Communicates current and previous 15 cycles of history for ease of diagnostics



Part	Product
6639	GeniSys 7556 12v System
6640	52082 Contractor Tool



Burner Parts



Part	Product
2952	5780 Electrode assembly tubes under 9" AF/AFG/SF/SM
2453	5782 Electrode Assembly tube over 9" AF/AFG/SF/SM
4541	7006U Cad cell flame detector
3302	7135U cad cell with 54" leads
2951	2288U Blower wheel "S" 5¾ x 3-7/16"
2949	2383U Blower wheel "S" 6¼" x 3-7/16"
6803	2999AU Blower wh 12V 4¼" x 2-7/16"
2607	2290 Coupling 7/16" shaft S series
2606	2454 Coupling 5/16" shaft A series
2614	3616 Gasket, Universal
2604	5636 6.5" connect tube assembly (A, AF)
2605	5394 8" connect tube assembly (S, SF,SM)

Burner Motors



12v Motor



- More robust 1/2" motor shaft now standard
- Improved strain relief and seal
- Improved cord set replaces 2 wire leads
- Improved engagement to burner housing
- Standardized couplings & blower wheels reduce inventory
- Compatible with Wayne 12v burner

Part	Product
5173	52145U Beckett 12v ADC comes with 2999 blower wheel and 2140501 coupling

Wayne 12v Motor



- 1/6 HP
- 3950 RPM

Part	Product
3065	101126-002 12v

Motors

- 3450 RPM
- ccw rotation
- Thermally protected



- M frame 6 3/4" bolt to center
- N frame 7 1/4" bolt to center

Part	Product
2946	1/7 HP 120v 48M frame w/capacitor
2947	1/7HP 220v 48M frame non capacitor
1214	1/5 HP 115v 48N frame non capacitor
4095	1/4HP 115/230v w/capacitor
1432	1/4 HP 220v 48N frame non capacitor



**Reliable transformer testing!
Lightweight, compact, instant results!**

A fast, portable, dependable way to instantly test transformers and electronic ignitors!
Easy to use and makes service calls a breeze. Simply touch the high voltage spheres to the high contacts of any brand transformer or ignitor and the green LED lights up if the unit is good.



Part	Product
6748	Chek-Mate

Electronic Ignitors

Omni Ignitor™

Have the proper ignitor in stock at all times!

The omni ignitor will replace most ignitors on the market today. By using the Omni with it's universal mounting plate, remove the defective ignitor and attach to the ignitor's plate.



Omni mounts to mounting bases manufactured by Beckett, Wayne, Carlin, France.

Part	Product
6745	12vdc Omni Ignitor
6746	120v Omni Ignitor
6747	240v Omni Ignitor
6759	2604 Base Plate Beckett "A", "AF"
6758	2601 Base Plate Beckett "S" end mount
6760	2603 Base Plate Wayne "E" side mount
6761	2602 Base Plate Wayne "M" & "MH"

PowerLight 12vdc Ignitors

Beckett's new Powerlight igniters offers improved performance and longer life. Easy to install and is designed as a universal replacement in Beckett and other manufacturer's burners.



Features and Benefits:

- External heat sink eliminated for improved performance and reduced frequency of replacement due to overheating and arcing.
- Easy change to interrupted ignition to increase ignitor life and save energy.
- Lightweight, single piece design is compatible with Beckett and other burners to reduce required inventory
- Fully potted with improved epoxy to withstand thermal shock and protect electronic components: waterproof
- Simplified wiring requirements and fewer wires for ease of installation
- **Cad cell not installed**

Part	Burner Model
6948	5218309U Ignitor only
6946	5218301U Beckett A, AF w/Cad Cell
6947	5218303U Beckett S w/cad cell
6949	5218305U Wayne EHR w/cad cell
6950	5218307U Wayne MSR w/cad cell

120v Electronic Ignitors

- Beckett ignitors are ALL end mount
- Base length of A, AF ignitors 5 3/4"
- Base length of S ignitors 7 1/2"
- Wayne "E" ignitors are side mount
- Wayne "M" ignitors are end mount



Part	Burner Model
5054	51838U ignitor only
4887	51771U Beckett A, AF w/base
4538	51824U Beckett S w/base
4545	51827U Wayne E w/base
5111	51825U Wayne M w/base
4471	Terminal kit

240v Electronic Ignitors

Part	Burner Model
6416	5199701U Beckett A w/base
6411	5199702U Beckett S w/base
6414	5199708U Wayne E w/base
6415	5199707U Wayne M w/base

Transformers

Known as "iron core" transformer, it draws 120 vac into the primary coil. The steel plates of the transformer core transfer the primary coil's 60Hz magnetic field to the secondary coil.

The secondary coil uses this field to produce a high output voltage of 10,000 VRMS open circuit (when there is no secondary current flowing) that has a frequency of 60Hz.



Part	Burner Model
6258	120v Beckett A, AF End
6204	120v Beckett "S" End
6229	240v Beckett A, AF End
6222	240v Beckett "S" End
6205	120v Wayne M&HS end
6206	120v Wayne "E" side
6211	240v Wayne "E" side

A2EA-6520 Clean Cut Fuel Pumps

PRODUCT FEATURES:



6588

- Reduces truck inventory
- Built-in solenoid valve, bypasses flow of oil instantly when power is cut, resulting in cleaner shutdowns
- Reduced motor load, Clean cut allows oil to freely bypass the piston, reducing demands on the motor during startup.
- Higher capacity, unique design delivers up to 4 gallons per hour at 150 PSI
- Includes fuel line

Part	Model
6588	12 volt pump
6591	120 volt pump
6564	240 volt pump
1523	12/24v replacement coil
1524	115v replacement coil
1525	220v replacement coil
4742	21877U solenoid valve kit
1526	3753895 Pigtail connector

PD Timer (option)



Adds a brief, highly consistent "valve-on" delay to establish airflow and brings the pump up to speed for smoother light-offs. May be useful on some auto start pressure washers.

120 volts	Part
	6582



Fuel Pumps

1439



Single stage fuel pumps. Suitable for kerosene, No. 1 or No. 2 fuel oil.

Part	Model	GPH	RPM
1437	A2VA-7116	3	3450
5797	A2VD-7119	3	3450
1439	A2YA-7916	7	3450
1742	A1YA-7912	7	1725

Waste Oil Heater Pump



Part	Model
6778	A2RA-7710

A2VA-3006 w/Built-in Solenoid



Part	Solenoid
6275	12vdc/24vac
6207	115volt
6326	220volt

Suntec Solenoid Valves



Part	Model
2203	12/24v R261NL
1215	115v R642NL
2202	220v R753NL

Solenoid Replacement Parts

Part	Model
1523	3713823 12/24v coil
1524	3713824 115v coil
1525	3713825 220v coil
1526	3753895 pigtail



Gas Valves

White Rogers 36c Valves

Combination gas valve. Covers a wide range of applications. Designed for use with common ignition systems and standing pilots. It replaces hundreds of existing models in the field.

FEATURES:

- Standing pilot
- Single stage
- Fast opening
- Max. capacity @ 1" PD = 280,000 BTU/HR
- Convertible-natural or LP
- Adjustable regulator
- Inlet/outlet screens
- Line Interrupter
- Inlet/outlet pressure taps
- CSA approved

SPECIFICATIONS:

Operating ambient temperature -40° to 175°F.
 Pressure rating (max.) 1/2 PSI (14.0" W.C.)
 Pilot Gas Connection 1/4" compression fitting
 Pressure Tap 1/8" NPT



5066

Part	Product
5066	24v 0.23A W/R 36C03-433
5047	120VAC W/R 36C03U-400

White Rogers 36H Valves

Universal replacement electronic ignition gas valve. This valve covers a wide range of applications. Designed for use with common ignition systems (HSI/DSI/Proven Pilot), it replaces hundreds of existing models in the field. White Rogers highest capacity combination gas valve.



FEATURES:

- HSI/DSI/Proven Pilot
- Single stage/Two stage
- Fast/Slow opening
- Convertible-natural or LP
- Adjustable regulator
- Inlet/outlet screens
- Electronic on-off switch
- Inlet/outlet pressure taps
- CSA approved

SPECIFICATIONS:

Electrical rating 0.41 amps (Single stage)
 0.54 amps (Two stage)
 Voltage 24VAC
 Frequency 50/60 Hz
 Operating ambient temperature -40° to 175°F.
 Pressure rating (max.) 1/2 PSI (14.0" W.C.)

Part	Product
4957	W/R 36H32-423

Honeywell Intermittent Pilot

Intermittent pilot, non integrated spark ignition module designed to generate sparks and energize the gas valves and monitor the flame sensor. It is a 100% shut off design that locks out the gas valve if the burner does not light within the safety time.

FEATURES:

- Replaces most spark intermittent pilot, non-integrated units
- Easy to install
- LED indicator for "power on" and system diagnostics
- Includes 10 different color coded program keys

Part	Product
4956	S8600M



Gas Thermocouple

Specifically designed for universal replacement

FEATURES:

- Stainless steel element construction for prolonged life
- Universal adapter fittings included for most types of pilot burners
- Visible instructions for easy installation

Part	Product
4955	W/R-HO6E-18"



Millivolt Generator

750 Millivolt power generator. Provides power for 750 Millivolt self-generation control systems. For replacement of similar screw-in type generators or for use with type E31-12 pilot burner

Part	Product
4863	36" W/R G0A1-502B1



Burner Rings

- Cast iron for long life
- High flow design
- Industry standard sizes
- 1/8" FPT



Note: Rings sold with 69 size orifice, the smallest size. Nozzles can be drilled to larger size

Part	Size
6674	32 nozzles 69 orifice
6675	44 nozzles 69 orifice
6676	66 nozzles 69 orifice
6678	Replacement Nozzle 69 orifice

Delavan Fuel Nozzles

TYPE A Hollow cone: Used mainly on burners with a hollow cone air pattern for throughputs up to 2.00 GPH. The droplet distribution is concentrated on the outside of the cone

TYPE B Solid Cone: Type B nozzles produce a spray that distributes droplets fairly uniformly throughout the complete pattern.



	NOZZLE SIZE				NOZZLE SIZE			
	60A	60B	70A	70B	80A	80B	90A	90B
1.00	1314	1321	1328		1343	1354	1370	
1.10					3079	1355		1382
1.20	1315	1322				1356		
1.25		1323		1331	1344	1357	1371	2384
1.35	1316	1324			1345	1358	1372	1384
1.50	1317	1325	1329		1346	1359	1373	1385
1.65					1347	1360	1374	
1.75	1318	1326	1330	1334	1348	1361	1375	1386
2.00	1729			1335	1349	1362	1376	1387
2.25		1327		1336	1350	1363	1377	1383
2.50				1337	1351	1364	1378	1388
2.75				1338	1352	1365	1380	1389
3.00				1339	1353	1366	1379	1390

Gallons per Hour

	NOZZLE SIZE				NOZZLE SIZE			
	60A	60B	70A	70B	80A	80B	90A	90B
3.25						1367		1391
3.50						1368		1392
4.00	1320					1369	1381	

GPH

ProTek™ Nozzle System

Patented system provides significant reduced combustion pollutants for cleaner air. Includes a factory installed one piece valve component, preventing oil after drip from the nozzle in off cycle



Part	Product
4301	ProTek™

Fuel Nozzle Adapter



Part	Product
3720	1/8" FPT
3785	1/4" FPT

K-Lite™ RT Ceramic Fiber Insulation

Made from high quality spun ceramic fibers. Composed of long, high strength fibers needled into a tight blanket with superior handling properties. Superior thermal conductivity values. Completely inorganic.

- Recommended operating temp 2150°F
- Maximum use limit 2300°F
- Shipping Dimensions: 25"x 19"x 19"



Part	Product	Shipping Wt.
3093	4 lb. roll 1"x 24"x 25'	27 lbs.
4417	8 lb. roll 1"x 24"x 25'	36 lbs.



Fuel/Water Separator



Multi-stage protection water separator and fuel filtration in a compact size. Fuel flow is controlled so large contaminants are separated and fall into the collection bowl.

- 15 GPH maximum flow
- Filters gasoline and diesel fuel
- Dual 1/4" FPT ports



Part	Product
1483	Fuel filter assembly
1484	Element w/gasket
3133	Vent plug RK20179
3135	Clear bowl RK10166

In-Line Fuel Filter

- 1/4" FPT I/O
- Maximum temp 50°C/122°F
- Filters diesel and gasoline
- 15 mesh filter



Part	Product
6452	Fuel Assembly
6453	Replacement cartridge

Mitco Can Type Filters

- With micro-flow filter element
- Galvanized can for rust protection
- High capacity containment reservoir extends filter life
- Highest UL pressure rating
- Highest UL GPH rating
- 360° screw driver slot for fast removal
- 10 GPH flow rate



Part	Product
3069	264 Fuel assembly

Mitco Micro Oil Filter

- Designed for full range of nozzle gallonage
- Extremely efficient in filtering particles
- Increased holding capacity
- Non-shed design is fiber welded
- No bonding agents to clog filter



Part	Product
3071	264-48 micro element

Felt Fuel Oil Element

- Prevent clogged burner nozzles and reduce service problems
- High grade wool material
- Gasket included



Part	Product
3070	264-1A felt element