

# INSTRUCTIONS AND PARTS MANUAL

## HOB-0

Please record your equipment identification information below for future reference. This information can be found on your machine nameplate.

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Whenever you request replacement parts or information on this equipment, always supply the information you have recorded above.

LIT-HOBO-IPM-0708



**BUG-O SYSTEMS**  
A DIVISION OF WELD TOOLING CORPORATION

PHONE: 1-412-331-1776 <http://www.bugo.com> FAX: 1-412-331-0383  
280 TECHNOLOGY DRIVE CANONSBURG, PENNSYLVANIA, 15317-9564 USA



# SAFETY

**PROTECT YOURSELF AND OTHERS FROM SERIOUS INJURY OR DEATH. KEEP CHILDREN AWAY. BE SURE THAT ALL INSTALLATION, OPERATION, MAINTENANCE AND REPAIR PROCEDURES ARE PERFORMED ONLY BY QUALIFIED INDIVIDUALS.**



**ELECTRIC SHOCK can kill.**

1. The equipment is not waterproof. Using the unit in a wet environment may result in serious injury. Do not touch the equipment when wet or standing in a wet location.
2. Never open the equipment without first unplugging the power cord or serious injury may result.
3. Verify the customer-supplied power connections are made in accordance with all applicable local and national electrical safety codes. If none exist, use International Electric Code (IEC) 950.
4. Never remove or bypass the equipment power cord ground. Verify the equipment is grounded in accordance with all applicable local and national electrical safety codes. If none exist, use International Electrical Code (IEC) 950.



**READ INSTRUCTIONS**

Read the instruction manual before installing and using the equipment.



**EQUIPMENT DAMAGE POSSIBLE.**

1. Do not plug in the power cord without first verifying the equipment is OFF and the cord input voltage is the same as required by the machine or serious damage may result.
2. Do not leave the equipment unattended. Remove from the worksite and store in a safe location when not in use.



**FALLING EQUIPMENT can cause serious personal injury and equipment damage.**

Faulty or careless user installation is possible. As a result, never stand or walk underneath equipment.



**MOVING PARTS can cause serious injury.**

1. Never try to stop the pinion from moving except by removing power or by using the STOP control.
2. Do not remove any protective panels, covers or guards and operate equipment.

## **CAUTION**

**DO NOT LEAVE EQUIPMENT UNATTENDED WHEN NOT IN USE!**

**Remove from work site and store in a safe location.**

# HOB-O

## INSTRUCTION AND PARTS MANUAL

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**THIS PRODUCT IS COVERED BY ONE OR  
MORE PATENTS WORLD WIDE.**



# TECHNICAL DATA

## HOB-O PRECISION HOLE BURNER BEVELER

**Power Requirement:** HOB-2204 120VAC  
 HOB-2224 240VAC DC HOB0 w/Blind Area Kit  
 HOB-2214 42VAC

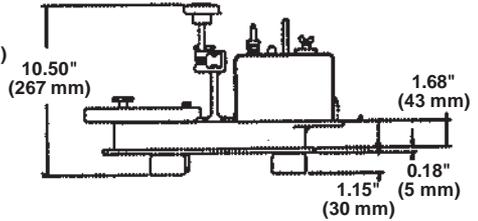
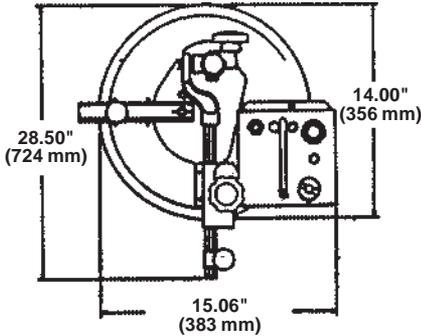
HOB-2303 120VAC  
 HOB-2323 240VAC DC HOB0 w/4-magnet base  
 HOB-2313 42VAC

NOTE: 7.50" to 15.00" (190-381 mm) can be cut using the Blind Area Kit

**Net Weight:** 30 lbs. (13.6 kg)

**Shipping Weight:** 35 lbs. (15.9 kg)

**Cutting Range:** Inside: 1-8" (25-203 mm)  
 Outside: 14.5-48" (368-1220 mm)



### CAPACITIES AND SPEED RANGES

(HOB-5100-F 150:1 RATIO)

DIA. INCH	INCH SPEED IPM	DIA. MM	METRIC SPEED MM/MIN
1	.4-8	2	10-200
4	1.6-33	100	40-800
8	3.3-66	200	80-1600
15	6-125	380	150-3000
20	8-160	500	200-4000
25	10-200	600	250-5000
30	12-250	750	300-6000
35	14-290	900	370-7500
40	16-330	1000	400-8000
45	18-375	1100	450-9000
48	20-400	1200	500-1000

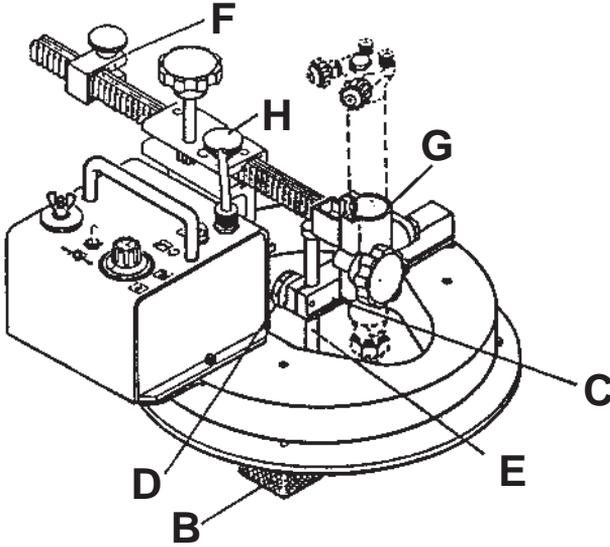
Speed range can also be found from formula:

Minimum speed per minute (0.4 x diameter).

Maximum speed per minute (8 x diameter).

Individual machines may operate at speeds lower than minimum shown in chart.

# OPERATING INSTRUCTIONS



## SET-UP AND CUTTING

**NOTE:** Heat protection tape is wrapped around magnets.

1. Push centering Assembly Slide (**C**) into center of machine and lock.
2. Loosen Pin Lock (**D**) to release Center Pin (**E**).
3. Allow Center Pin (**E**) to project beneath base of machine and place in center-punch mark. "Ride" machine down to the work on the center pin and be sure it seats firmly on the magnets. The entire machine is now centered. Do not hammer or you will knock out the alignment.

**NOTE:** Similar procedure locates the HOB-O when vacuum cups or Blind Area Kit are used.

4. Snug up rack action with Knob (**H**), so that rack is held firmly but can still move smoothly in rackholder.
5. When the centering assembly and the torch are fully retracted, the torch is on center. Thus, a small drilled hole can be used to locate center and as a starting hole for fast accurate cutting of small holes.
6. Set Rack Stop (**F**) to desired radius (minus kerf width) and Torchholder Assembly (**G**) to desired angle. (Minus kerf width for holes; plus kerf width for discs or pancakes).
7. Ignite torch (with Shoot-a-lite provided) and pierce hole or start in drilled starting hole - **(IN THE MATERIAL WHICH WILL BE SCRAP)**.
8. As soon as the cut is started, switch on travel motor, then rack slowly until the Rack Stop (**F**) stops against the back of the rackholder. This movement will feather the cut into the desired radius without notching.

# HOB-5100-F DC DRIVE UNIT

## DRIVE UNIT OPERATION:

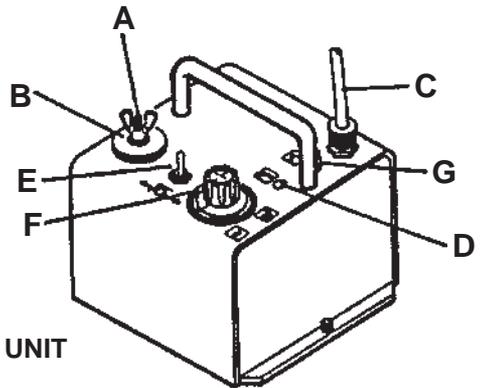
Rotating Cam Knob **(B)** will move drive pinion in and out of engagement with the ring gear.

To disengage the drive pinion from the ring gear, loosen the 1/4-28 Wing Nut **(A)** and turn Knob **(B)** counter clockwise. Turn Knob **(B)** clockwise to engage the drive pinion with the ring gear, re-tighten the 1/4-28 Wing Nut **(A)** to lock in position.

When Power Cord **(C)** is plugged into the appropriate power source, Pilot Light **(D)** will glow. Switch **(E)** controls direction of travel, with the center position as "OFF", Knob **(F)** controls speed. Circuit Breaker **(G)** protects the unit against overload or electrical faults.

**CAUTION:** If the Circuit Breaker **(G)** opens, **FIND and CORRECT CAUSE OF FAILURE BEFORE RESETTING.**

**NOTE:** For DC Drive Unit details, see page 10 and 11.



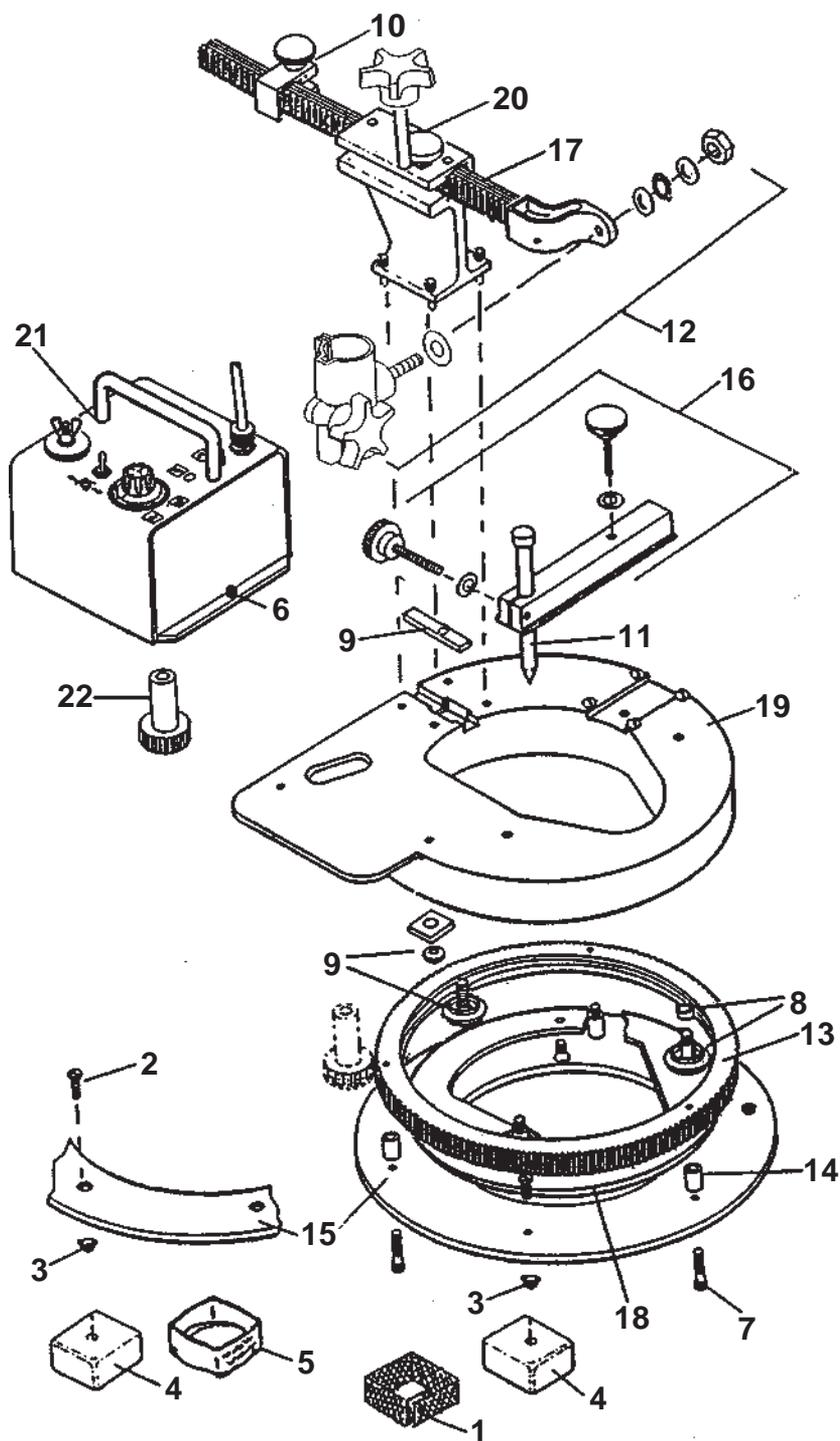
## TECHNICAL DATA:

### HOB-O DRIVE UNIT

<b>Power Requirement:</b>	HOB-5100-F 120/150-60/1 HOB-5102-F 240/50-60/1 HOB-5104-F 42/50-60/1
<b>Dimensions:</b>	7.12"L x 6.63"W x 6.75"H (180 x 168 x 172 mm)
<b>Net Weight:</b>	10 lbs. (4.5 kg)
<b>Speed:</b>	*5-100 ipm (125-2500 mm/min) (Measured at Drive Pinion)
<b>Load Capacity:</b>	*10 lbs. (4.5 kg) Vertical (Measured at Drive Pinion)

\***NOTE:** Speed and load ratings apply at radius of ring gear. Speed is proportional to radius at any other point, and load rating is inversely proportional to radius.

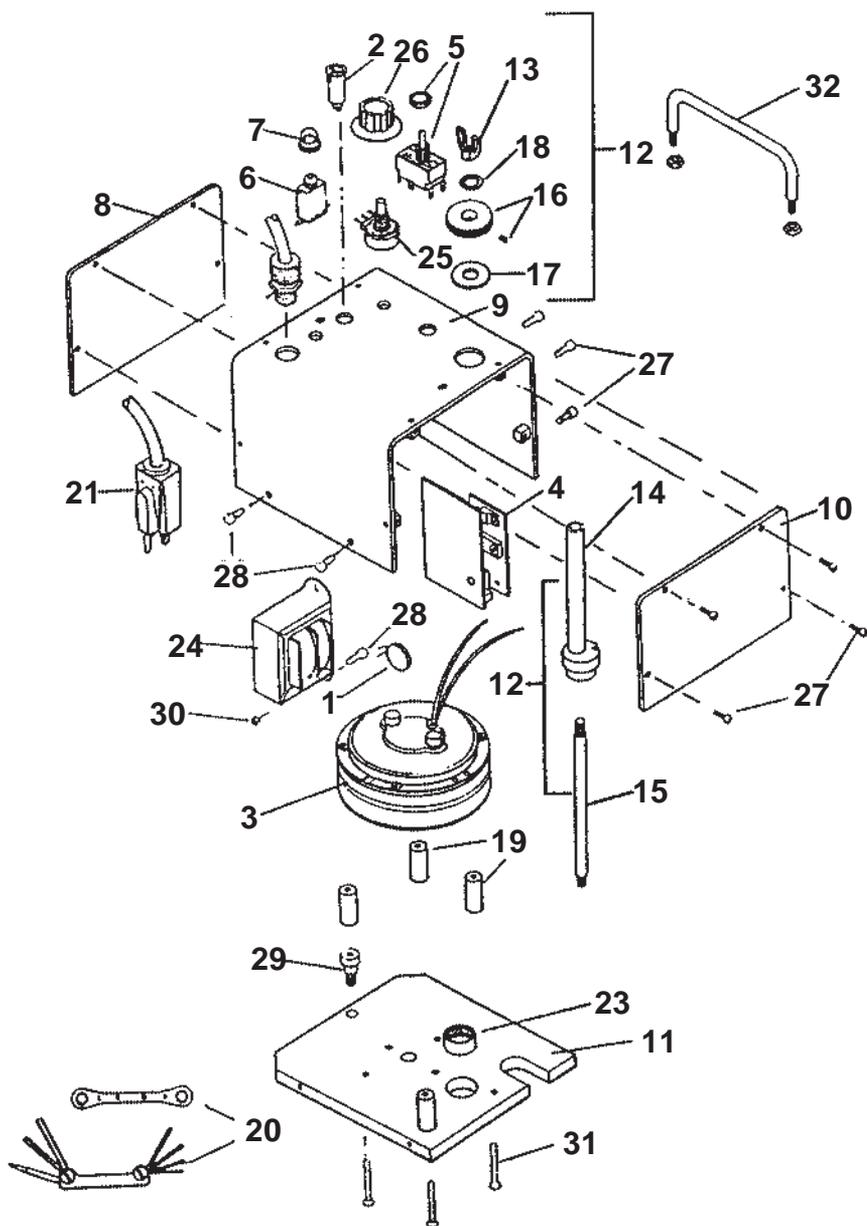
# EXPLODED VIEW / HOB-O



# PARTS LIST / HOB-O

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	ARM-2218	4	Heat Protection Tape
2	ARM-2242	4	Swivel Screw
3	ARM-2243	4	Swivel Spring
4	ARM-2244	4	Swivel Magnet
5	ARM-2235	4	Magnet Cover
6	FAS-0654	1	Soc Hd Shldr Screw 5/16 x 3/8
7	FAS-2551	3	Soc Hd Cap Screw 1/4-20 x 1-1/4
8	HOB-1002	2	Stationary Wheel Assembly
9	HOB-1004	1	Adjustable Wheel Assembly
10	HOB-1025	1	Rack Stop
11	HOB-1029	1	Center Pin
12	HOB-1035	1	Torchholder Assembly
13	HOB-1041	1	Ring Gear
14	HOB-1042	3	Ring Spacer
15	HOS-1044	1	Magnet Ring
16	HOB-1064	1	Centering Assembly (Must be installed at factory) (Includes Item 11)
17	HOB-1066	1	Torch Support
18	HOB-1096	1	Spatter Guard
19	HOB-2001	1	Base Casting
20	HOB-2255	1	Rackholder Assembly
21	HOB-5100-F	1	DC Drive Unit Assembly (Includes Items 6 & 22) 240 VAC: HOB-5102-F (Includes Items 6 & 22) 42 VAC: HOB-5104-F (Includes Items 6 & 22)
22	HOB-5105	1	Drive Gear Assembly

# EXPLODED VIEW / HOB-5100-F DC DRIVE UNIT

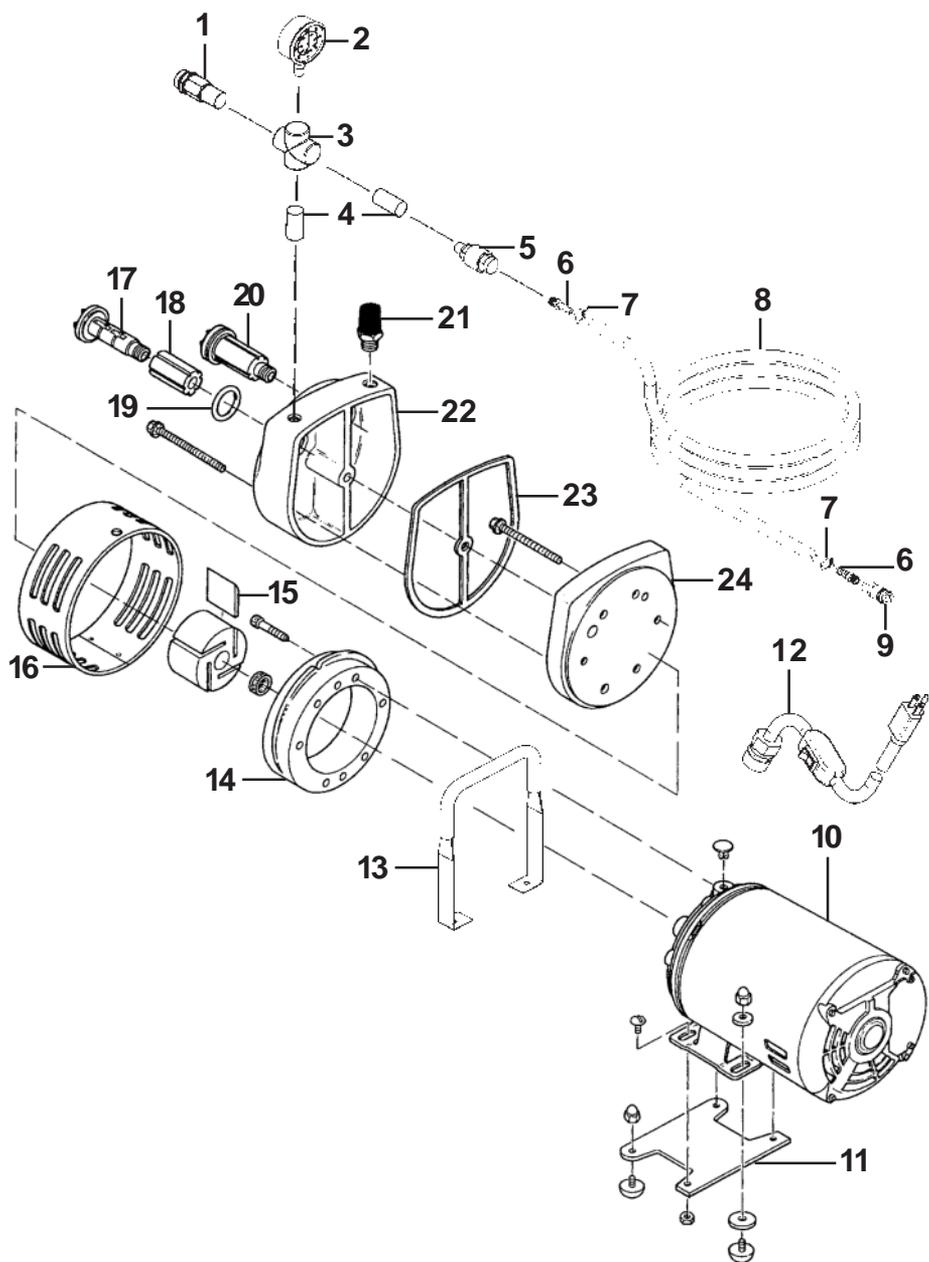


# PARTS LIST / HOB-5100-F DC DRIVE UNIT

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	BUG-1393	1	Volt Trap 120 VAC
2	BUG-1415	1	Pilot Light 120 VAC
3	BUG-1550	1	Gear Motor
4	BUG-1725	1	Precision Speed Control
5	BUG-2255	1	Toggle Switch
6	BUG-2923	1	Circuit Breaker .7A
7	BUG-2924	1	Reset Button Seal
8	BUG-2988	1	End Plate
9	BUG-5111	1	Cover
10	BUG-5112	1	End Plate
11	BUG-5114	1	Swivel Plate
12	BUG-5120	1	Cam Clutch Assembly (Includes items 13 thru 18)
13	BUG-2767W	1	Wing Nut 1/4-28
14	BUG-5113	1	Tube & Cam Assembly
15	BUG-5116	1	Stud
16	BUG-5119	1	Knob
17	BUG-5122	1	Delrin Washer
18	WAS-0240	1	1/4 Washer
19	BUG-5121	4	Standoff
20	BUG-9444	1	Tool Kit
21	BUG-9445	1	Power Cord
22	BUG-9446	1	Cord Grip
23	BUG-9614	1	Needle Bearing
*24	BUG-9675	1	Transformer 120 VAC
25	BUG-9677	1	Potentiometer
26	BUG-9687	1	Knob
27	FAS-0114	8	Pan Hd Screw 6-32 x 3/8
28	FAS-0124	7	Pan Hd Screw 8-32 x 3/8
29	FAS-0654	1	Soc Hd Shldr Screw 5/16 x 3/8
30	FAS-1320	3	Hex Nut 8-32
31	FAS-2824	4	Flt Hd Screw 8-32 x 1-3/4
32	GOF-3019	1	Handle
33	HOB-5105	1	Drive Gear Assembly

\* See Electrical Component Chart For 240 VAC and 42 VAC Parts Numbers.

# EXPLODED VIEW / VACUUM PUMP



# PARTS LIST / VACUUM PUMP

<u>ITEM</u>	<u>Quantity</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	ARV-2017	1/4" Brass Vacuum Relief Valve
2	1	ARV-2014	Vacuum Gage
3	1	ARV-2018	1/4" NPT Union Cross, Female
4	2	ARV-2012	1/4" NPT Nipple
5	1	ARV-2016	1/4" NPT Brass Check Valve, F
6	2	ARV-1107	3/8" Hose Barb x 1/4" NPT-M
7	2	ARV-1005	11/16" X .112 Thk
8	1	ARV-1004-P	Hose 3/8" ID x 11/16" OD
9	1	ARV-1012	Female Quick Connector
10	1	ARV-2019	Pump
11	1	ARV-1999	Foot Support
12	1	ARV-2021	120 VAC Power Cord w/Switch
13	1	ARV-2013	Handle
14	1	ARV-2011	Body
15	4	ARV-2010	Vane
16	1	ARV-2009	Shroud
17	2	ARV-2003	End Cap
18	2	ARV-2004	Felt
19	2	ARV-2005	O-ring
20	2	ARV-2002	End Cap Assembly
21	1	ARV-2001	Filter / Muffler
22	1	ARV-2006	Muffler Box
23	1	ARV-2007	Gasket
24	1	ARV-2008	End Plate

A Repair Kit, **ARV-2015** is available for the **ARV-2020** and **ARV-2030** pumps. The kit contains (4) vanes, (1) body gasket, filter felts for the muffler, oiler filter, oiler wick, a cover gasket and separator felt for the oiler filter.

# VACUUM SUPPORT KIT

HOB-VACUUM BASES can be mounted on any HOB-O.

Four Cup Vacuum Bases HOB-1140 adjust to curved surfaces.

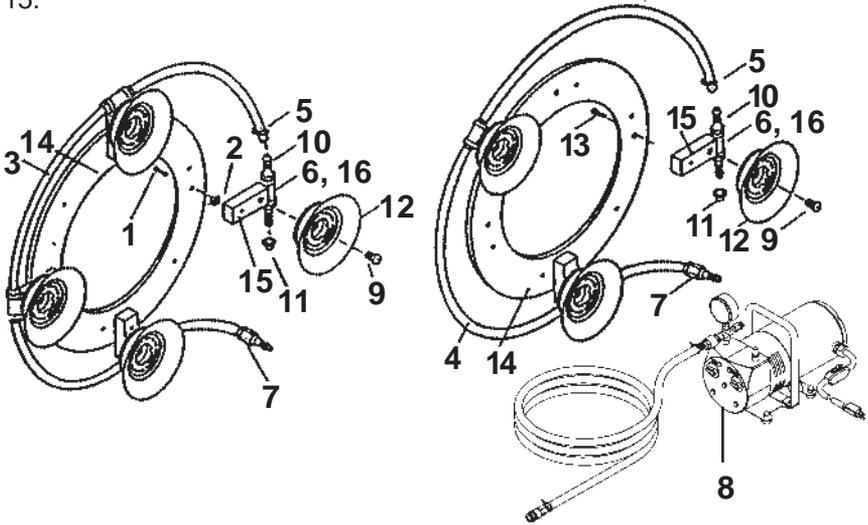
Three Cup Vacuum Bases HOB-1146 are designed for use on flat surfaces.

Each Vacuum Cup holds 12" (300 mm) of mercury vacuum. (Dirt and scale block vacuum lines; blow-out when clogged).

Keep flame 4" (100 mm) away from cups when burning or welding. Silicone Vacuum Cups will withstand a temperature of 600° F (318° C).

**HOB-1149** Vacuum Support Bar (Fixed) Includes items 6, 9,10,12,13, and 15.

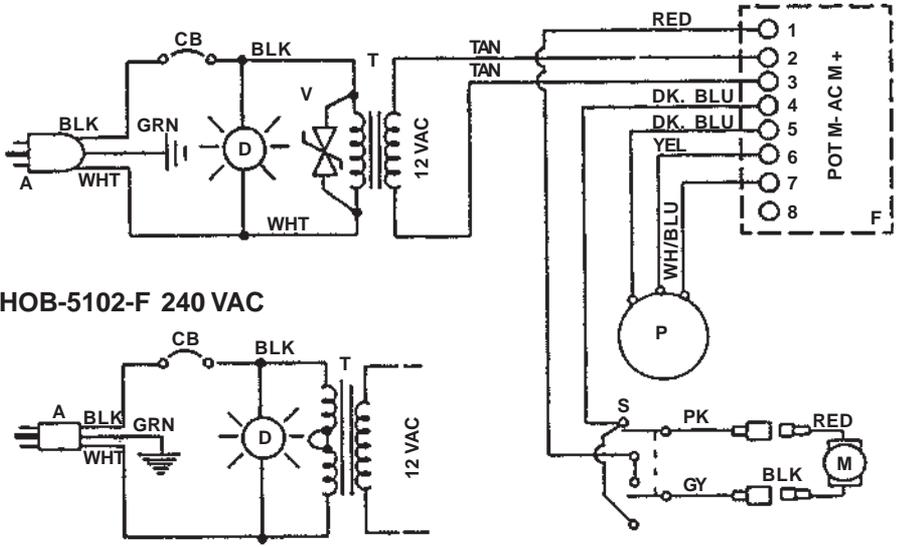
**HOB-1151** Vacuum Support Bar with Swivel Includes items 1, 2, 6, 9,10,12, and 15.



ITEM	PART NO.	HOB-1140	HOB-1146	DESCRIPTION
		QTY	QTY	
1	ARM-2242	4		Swivel Screw
2	ARM-2243	4		Swivel Spring
3	ARV-1004-14	4		Hose-14" (355 mm)
4	ARV-1004-18		3	Hose-18" (457 mm)
5	ARV-1005	8	6	Hose Clamp
6	ARV-1021	4	3	1/4 NPT "T"
7	ARV-1018	1	1	QC MALE w/Barb
8	ARV-2020			Vac. Pump Kit 120/50-60/1
	ARV-2030			Vac. Pump Kit 220/50-60/1
9	ARV-1034	4	3	Choke Nipple
10	ARV-1107	8	6	3/8" Hose Barb 1/4 NPT
11	ARV-1109	1	1	Protective Cap
12	ARV-1116	4	3	Vac. Cup (Silicone) 50lb (22.7kg)
13	FAS-0357		3	Hex Hd Cap Scr 1/4-20 x 3/4
14	HOB-1044	1	1	Magnet Ring
15	HOB-1152	4	3	Bar
16	ARQ-1125	4	3	1/4 NPT Close Nipple Brass

# WIRING DIAGRAM / HOB-5100-F DC DRIVE UNIT

HOB-5100-F 120 VAC  
HOB-5104-F 42 VAC

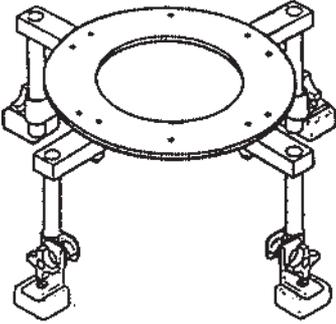


HOB-5102-F 240 VAC

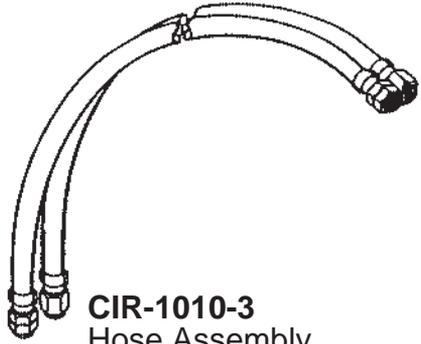
## ELECTRICAL COMPONENT CHART

ITEM	DESCRIPTION	PART NUMBER		
		HOB-5100-F 120 VAC	HOB-5102-F 240 VAC	HOB-5104-F 42 VAC
A	Power Cord	BUG-9445	GOF-3115	BUG-9442
CB	Circuit Breaker	BUG-2923	BUG-2952	BUG-2933
D	Pilot Light	BUG-1415	BUG-1428	BUG-1427
V	Volt Trap	BUG-1393	BUG-1563	BUG-1393
T	Transformer	BUG-9675	GOF-3112	BUG-1466
M	Gear Motor	BUG-1550 (150:1)		
F	Precision Speed Control	BUG-1725		
S	Toggle Switch	BUG-2255		
P	Potentiometer Control	BUG-9686		

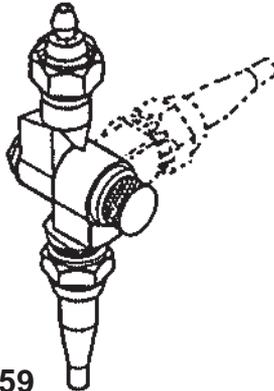
# ACCESSORIES



**HOB-2080**  
Blind Area Kit



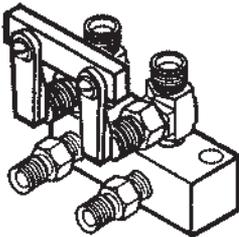
**CIR-1010-3**  
Hose Assembly  
32" (812 mm)



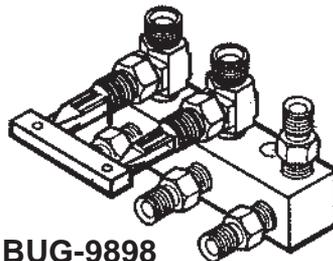
**BUG-1259**  
Adjustable tip adapter  
Required w/Blind Area Kit

## Quick-Acting Manifolds

Eliminate resetting pre-heat valves each time torch is lighted.



**GOF-3025**  
2-Hose



**BUG-9898**  
3-Hose

# TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
Does not run, indicator light off.	No power to machine.	Check power line supply voltage. Plug in line cord firmly.
Does not run, indicator light off.  Circuit breaker tripped.	Wiring shorts.	Disconnect machine and examine internally; rewire at fault.  If none found, throw direction switch to 'OFF', reset breaker and plug in.
	Shorted motor.	If breaker does not trip, replace drive unit.
	Faulty speed control board.  Burned out transformer.	If breaker trips again, replace control board.  (OR)  Replace transformer.
Does not run, indicator light on.	Bad connection.	Check wiring connections, 12 VAC should appear across secondary of transformer.  Tighten terminal screws on speed control board.
	Faulty speed control board.	If DC Volts = 0 across leads to motor; replace control board.
Unit runs, but no control over speed.	Faulty speed control board.	Replace control board. (Check connection first).

**NOTE:** Make sure unit is plugged into correct voltage, (120VAC, 240VAC, 42VAC) corresponding to Model No. rating.

# WARRANTY

## LIMITED WARRANTY

MODEL: \_\_\_\_\_

SERIAL NO.: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_

FOR A PERIOD OF TWELVE (12) MONTHS FROM DELIVERY, BUG-O SYSTEMS WARRANTS TO THE ORIGINAL PURCHASER (DOES NOT INCLUDE AUTHORIZED DISTRIBUTORS), THAT A NEW MACHINE IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP AND AGREES TO REPAIR OR REPLACE, AT ITS OPTION, ANY DEFECTIVE PARTS OR MACHINE. THIS WARRANTY DOES NOT APPLY TO MACHINES, WHICH AFTER OUR INSPECTION, ARE DETERMINED TO HAVE BEEN DAMAGED DUE TO NEGLIGENCE, ABUSE, OVERLOADING, ACCIDENT OR IMPROPER USAGE. ALL SHIPPING AND HANDLING CHARGES WILL BE PAID BY CUSTOMER.

BUG-O SYSTEMS MAKES NO WARRANTY OF MERCHANTABILITY AND MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, BEYOND THE WARRANTY EXPRESSLY SET FORTH ABOVE. BUYER'S REMEDY FOR BREACH OF WARRANTY, HEREUNDER, SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF NON-CONFORMING PARTS AND MACHINES. UNDER NO CIRCUMSTANCES SHALL CONSEQUENTIAL DAMAGES BE RECOVERABLE.

### **HOW TO OBTAIN SERVICE:**

**IF YOU THINK THIS MACHINE IS NOT OPERATING PROPERLY, RE-READ THE INSTRUCTION MANUAL CAREFULLY, THEN CALL YOUR AUTHORIZED BUG-O DEALER/DISTRIBUTOR. IF HE CANNOT GIVE YOU THE NECESSARY SERVICE, WRITE OR PHONE US TO TELL US EXACTLY WHAT DIFFICULTY YOU HAVE EXPERIENCED. BE SURE TO MENTION THE MODEL AND SERIAL NUMBERS.**

# SAFETY

**PROTECT YOURSELF AND OTHERS FROM SERIOUS INJURY OR DEATH. KEEP CHILDREN AWAY. BE SURE THAT ALL INSTALLATION, OPERATION, MAINTENANCE AND REPAIR PROCEDURES ARE PERFORMED ONLY BY QUALIFIED INDIVIDUALS.**



**ELECTRIC SHOCK can kill.**

1. The equipment is not waterproof. Using the unit in a wet environment may result in serious injury. Do not touch the equipment when wet or standing in a wet location.
2. Never open the equipment without first unplugging the power cord or serious injury may result.
3. Verify the customer-supplied power connections are made in accordance with all applicable local and national electrical safety codes. If none exist, use International Electric Code (IEC) 950.
4. Never remove or bypass the equipment power cord ground. Verify the equipment is grounded in accordance with all applicable local and national electrical safety codes. If none exist, use International Electrical Code (IEC) 950.



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**EQUIPMENT DAMAGE POSSIBLE.**

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**FALLING EQUIPMENT can cause serious personal injury and equipment damage.**

Faulty or careless user installation is possible. As a result, never stand or walk underneath equipment.



**MOVING PARTS can cause serious injury.**

1. Never try to stop the pinion from moving except by removing power or by using the STOP control.
2. Do not remove any protective panels, covers or guards and operate equipment.

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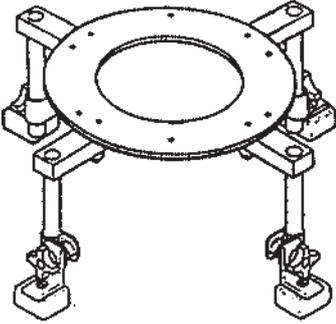
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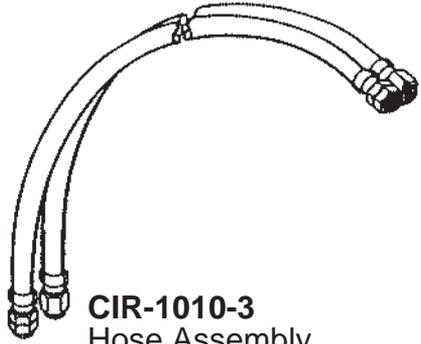
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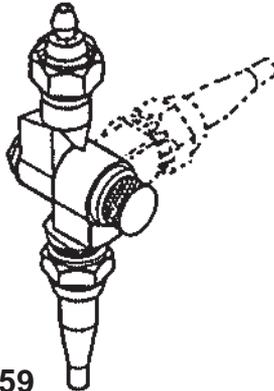
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Blind Area Kit



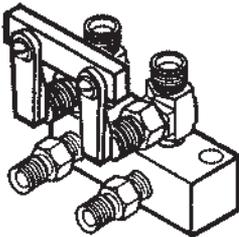
**CIR-1010-3**  
Hose Assembly  
32" (812 mm)



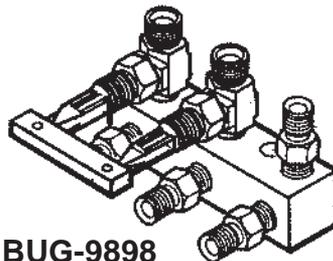
**BUG-1259**  
Adjustable tip adapter  
Required w/Blind Area Kit

## Quick-Acting Manifolds

Eliminate resetting pre-heat valves each time torch is lighted.

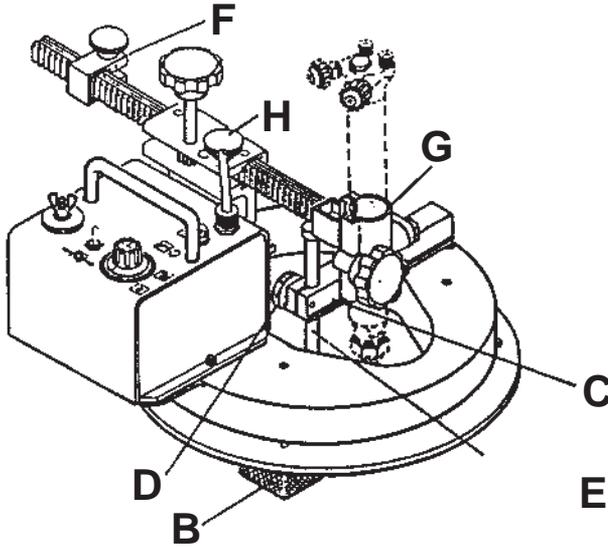


**GOF-3025**  
2-Hose



**BUG-9898**  
3-Hose

# OPERATING INSTRUCTIONS



## SET-UP AND CUTTING

**NOTE:** Heat protection tape is wrapped around magnets.

1. Push centering Assembly Slide (**C**) into center of machine and lock.
2. Loosen Pin Lock (**D**) to release Center Pin (**E**).
3. Allow Center Pin (**E**) to project beneath base of machine and place in center-punch mark. "Ride" machine down to the work on the center pin and be sure it seats firmly on the magnets. The entire machine is now centered. Do not hammer or you will knock out the alignment.

**NOTE:** Similar procedure locates the HOB-O when vacuum cups or Blind Area Kit are used.

4. Snug up rack action with Knob (**H**), so that rack is held firmly but can still move smoothly in rackholder.
5. When the centering assembly and the torch are fully retracted, the torch is on center. Thus, a small drilled hole can be used to locate center and as a starting hole for fast accurate cutting of small holes.
6. Set Rack Stop (**F**) to desired radius (minus kerf width) and Torchholder Assembly (**G**) to desired angle. (Minus kerf width for holes; plus kerf width for discs or pancakes).
7. Ignite torch (with Shoot-a-lite provided) and pierce hole or start in drilled starting hole - **(IN THE MATERIAL WHICH WILL BE SCRAP)**.
8. As soon as the cut is started, switch on travel motor, then rack slowly until the Rack Stop (**F**) stops against the back of the rackholder. This movement will feather the cut into the desired radius without notching.

# VACUUM SUPPORT KIT

HOB-VACUUM BASES can be mounted on any HOB-O.

Four Cup Vacuum Bases HOB-1140 adjust to curved surfaces.

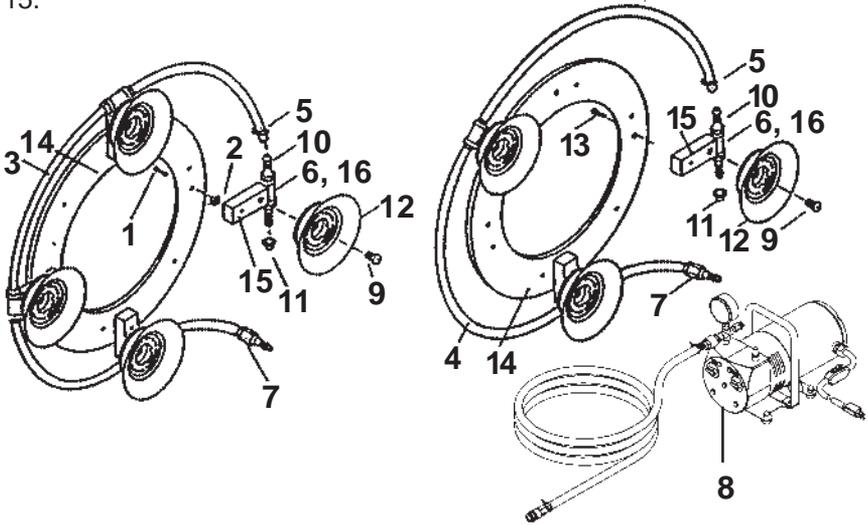
Three Cup Vacuum Bases HOB-1146 are designed for use on flat surfaces.

Each Vacuum Cup holds 12" (300 mm) of mercury vacuum. (Dirt and scale block vacuum lines; blow-out when clogged).

Keep flame 4" (100 mm) away from cups when burning or welding. Silicone Vacuum Cups will withstand a temperature of 600° F (318° C).

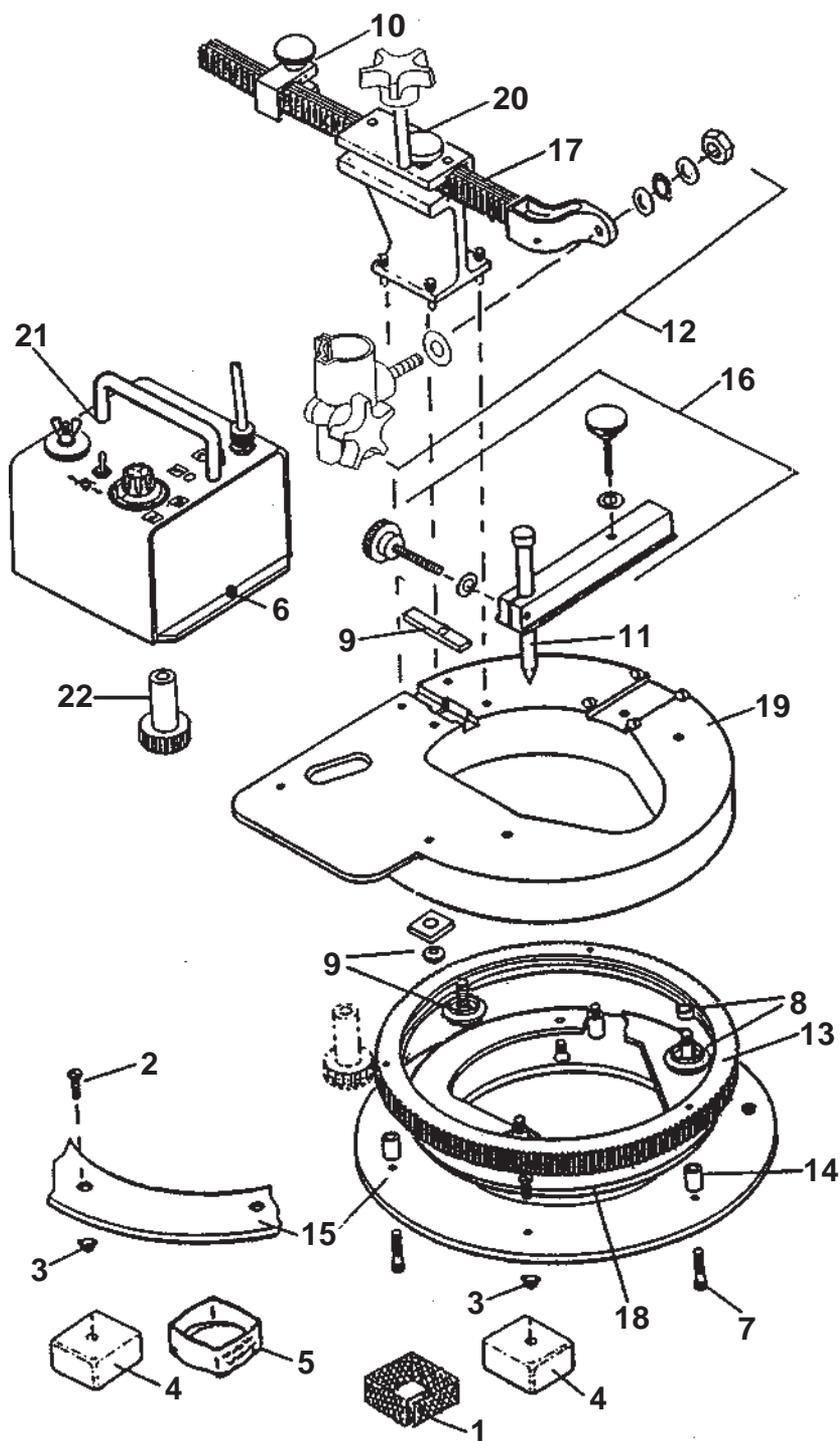
**HOB-1149** Vacuum Support Bar (Fixed) Includes items 6, 9,10,12,13, and 15.

**HOB-1151** Vacuum Support Bar with Swivel Includes items 1, 2, 6, 9,10,12, and 15.

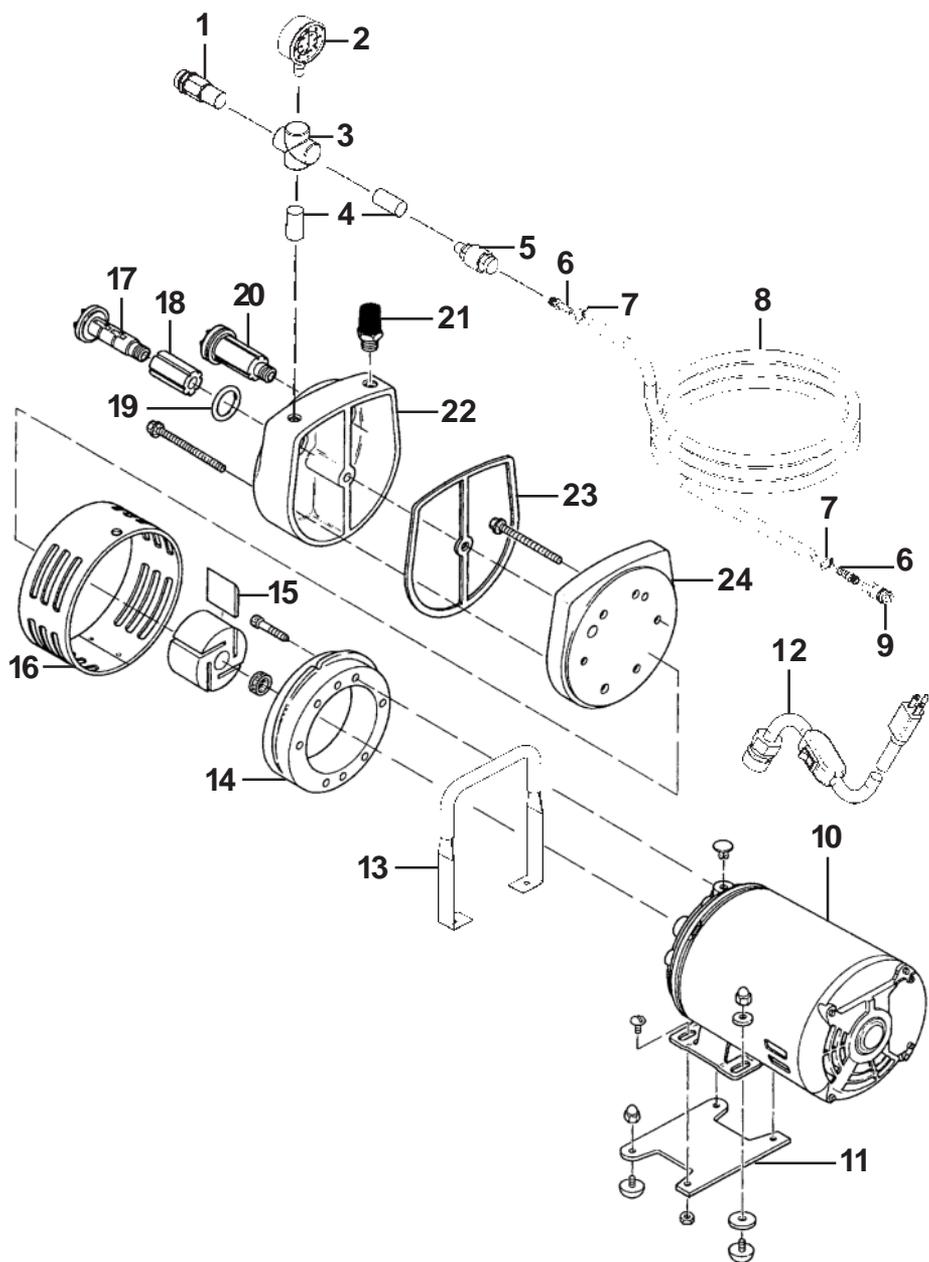


ITEM	PART NO.	HOB-1140	HOB-1146	DESCRIPTION
		QTY	QTY	
1	ARM-2242	4		Swivel Screw
2	ARM-2243	4		Swivel Spring
3	ARV-1004-14	4		Hose-14" (355 mm)
4	ARV-1004-18		3	Hose-18" (457 mm)
5	ARV-1005	8	6	Hose Clamp
6	ARV-1021	4	3	1/4 NPT "T"
7	ARV-1018	1	1	QC MALE w/Barb
8	ARV-2020			Vac. Pump Kit 120/50-60/1
	ARV-2030			Vac. Pump Kit 220/50-60/1
9	ARV-1034	4	3	Choke Nipple
10	ARV-1107	8	6	3/8" Hose Barb 1/4 NPT
11	ARV-1109	1	1	Protective Cap
12	ARV-1116	4	3	Vac. Cup (Silicone) 50lb (22.7kg)
13	FAS-0357		3	Hex Hd Cap Scr 1/4-20 x 3/4
14	HOB-1044	1	1	Magnet Ring
15	HOB-1152	4	3	Bar
16	ARQ-1125	4	3	1/4 NPT Close Nipple Brass

# EXPLODED VIEW / HOB-O



# EXPLODED VIEW / VACUUM PUMP



# EXPLODED VIEW / HOB-5100-F DC DRIVE UNIT

