# INSTRUCTIONS AND PARTS MANUAL

# **GO-FER® IV**

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-GO-FER4-IPM-0524

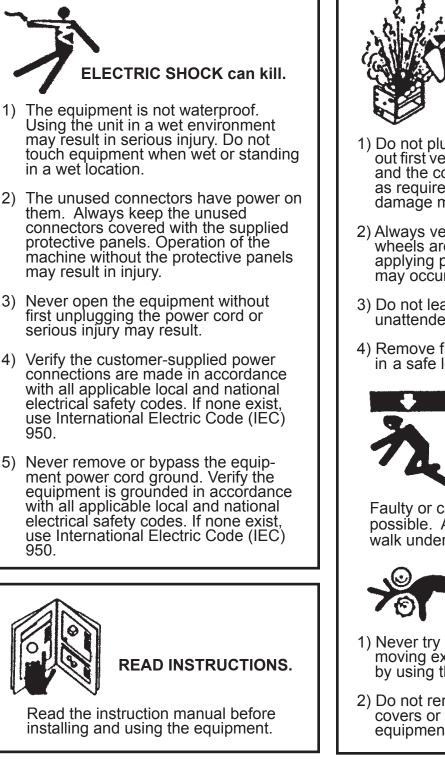
Bug-O Systems is committed to empowering our customers by providing operator controlled mechanized solutions for their welding, cutting and custom applications.



950.

950.

#### 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.





#### EQUIPMENT DAMAGE POSSIBLE.

- 1) Do not plug in the power cord with out 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) Always verify both the pinion and wheels are fully engaged before applying power or equipment damage may occur.
- 3) Do not leave the equipment unattended.
- 4) Remove from the work site 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.

#### SPECIAL PRECAUTIONS ARE REQUIRED WHEN USING PLASMA, TIG OR ANY WELDING PROCESS THAT USES HIGH FREQUENCY TO STRIKE AN ARC.



WARNING: HIGH FREQUENCY CAN EFFECT MACHINE OPERATION AND THEREFORE, WELD QUALITY.

Read the precautions below before installing and using the equipment.

#### **PRECAUTIONS:**

- 1) Some plasma or welding cables are strong sources of high frequency interference. NEVER lay a plasma or welding cable across the controls of the machine.
- 2) Always physically separate the plasma or welding cable leads from the machine cables. For example, the plasma or welding cable leads should NEVER be bundled with a pendant cable or the machine power cord. Maximize the separation between any machine cables and the plasma or welding cables.
- 3) Strictly follow the grounding procedures specified for the plasma or welding unit. NOTE: Some plasma and welding units produce exceptionally large amounts of high frequency noise. They may require a grounding rod be driven into the earth within six feet (2 meters) of the plasma or welding unit to become compatible with an automatic cutting or welding process.
- 4) If the high frequency is produced using a spark gap, adjust the points so the gap is as small as possible. The larger the gap, the higher the voltage and the higher the interference.
- 5) Some plasma or welding units will inject high frequency interference into the AC power line. Use separate power line branches whenever possible to power the plasma or welding source and the machine. Do not plug them into the same outlet box.
- 6) High frequency noise may enter the machine through the plasma or welding supply remote contactor leads. Some plasma and welding sources can produce noise spikes of up to several thousand volts. These sources are not compatible with automated cutting and welding equipment. It is recommended that the remote contactor leads on these plasma or welding sources not be connected to the machine. An alternate solution is to purchase a separate remote contactor isolation box.

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Patents Pending

# INTRODUCTION

The GO-FER<sup>®</sup> IV is a portable, versatile and robust tractor designed for all your cutting and welding needs. It's like having three units in one! When used for cutting, you can utilize either oxy-fuel or plasma torches. It can also carry a Plasma torch for gouging. The GO-FER<sup>®</sup> IV can be used in all positions. The system includes rack & pinion drive and the wheels are secured within the V groove in the sides of the rail. These features allow travel in any plane, even upside down. (Working out of position requires additional magnets and a safety line should be used as needed.)

When utilized for straight line cutting and beveling with an oxy-fuel torch, this unit includes everything required except the torch itself. The torch holder will accept any standard 1-3/8" (35mm) diameter machine torch with a 32 pitch gear rack. The quick-action gas manifold mounted to the rear of the machine is used as a strain reliever for the torch hoses and gives the operator the ability to turn the gases on and off without having to readjust the gas flow of the torch. The Cable Anchor provides strain relief for the supply hoses and power cord.

With an ample speed range of 2.5-100 ipm (63.5 -2540 mm/min) the GO-FER® IV is perfectly designed to work in conjunction with a plasma cutting system. The GO-FER® IV includes a built-in contactor switch to turn the plasma on and off. Easy torch adjustment is provided to make straight plasma cuts and bevels. With the right tip in the plasma torch you can perform mechanized gouging without changing machines.

An alternate version of the GO-FER<sup>®</sup> IV is available, which includes a control pendant and cable. The control pendant allows the GO-FER<sup>®</sup> IV to be controlled and operated from a short distance.

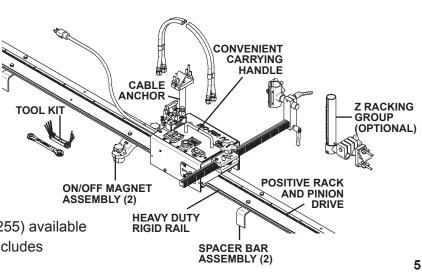
The optional Welding Kit (GOF-3255) provides everything you need for in-process torch adjustment of the vertical and horizontal plane. The fits-all clamp will accept and accommodate any hand held or machine barrel welding gun and allow the operator to position the gun at any angle they desire. The built-in trigger contactor allows the operator to activate the wire feeder from a switch on the top of the unit.

The GO-FER<sup>®</sup> IV runs on Bug-O's patented Aluminum Rigid Rail for straight-line travel or Bug-O's Semi-Flex Rail for diameters of 30' (9.1 m) or greater. The rail sections are joinable for unlimited run length and are positioned with strong, Rare-Earth, On/Off Magnets or Bug-O Vacuum cup support system for non-ferrous applications.

# FEATURES

- A drive motor to suit all applications with speeds from 2.5 to 100 ipm (63.5-2540 mm/min)
- · Dynamic braking of motor prevents drift in all positions
- Bright digital pre-settable travel speed meter for actual ipm
- Two independent built-in contactors for dual torch applications
- Large industrial sealed rocker switches (welding glove friendly)
- · Quick-Action Gas manifold, twinhose assembly and cable anchor
- Power cord with plug-in lock
- Torch adjustment racking for oxyfuel and plasma cutting
- Low profile case
- Top Central Carrying Handle
- Proudly Made in USA
- Supported by our 3-Year Warranty
- Optional Weld Racking Group (GOF-3255) available
- An International version (GOF-4002) includes a 240v power cord and twist-lock plug

Bug-O Systems has a complete overview video of our GO-FER® IV. To watch this video, scan the gr code above or visit http://goo.gl/BgiFWn





# **TECHNICAL DATA**

#### GOF-4000 Kit includes the following:

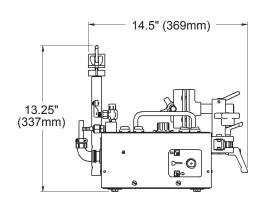
1 GOF-4001 Go-fer IV<sup>®</sup> 120 VAC base machine 1 ARR-1080 Heavy Duty Rigid Rail 93.50" (2.37m) 2 ARM-2010 On/Off Magnet Assembly 2 ARM-2015 Spacer Bar Assembly

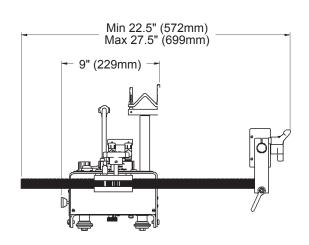
GOF-4002240 VAC KitGOF-4100120 VAC Kit w/ PendantGOF-4102240 VAC Kit w/ PendantNOTE: Base machine is dual voltage (120 - 240 VAC)The only difference is the supplied power cord.

Power Requirement: - 60 watts at rated voltage:

GOF-4000/GOF-4100 Kit GOF-4002/GOF-4102 Kit	120 VAC/50-60Hz/1Ph 240 VAC/50-60Hz/1Ph		
Travel Speed:	Infinitely variable from 2.5-100 ipm (63.5-2540 mm/min)		
Load Capacity:	15 lbs. (6.8 kg) vertical 60 lbs. (27.3 kg) horizontal		
Magnet Holding Power:	250 lbs. (113 kg)		
Dimensions of GOF-4001/GOF-4101: GOF-4003/GOF-4103:	14.5" L x 27.5" W x 13.25" H (369 mm x 699 mm x 337 mm)		
Net Weight of GOF-4001/GOF-4101: GOF-4003/GOF-4103:	17 lbs. (7.7 kg)		
Rail:	8' Rail ARR-1080 93-7/16" (2.37 m) actual length 4' Rail ARR-1085 46-9/16" (1.18 m) actual length		
Net Weight of Kit:	37 lbs. (16.8 kg)		
Shipping Weight of Kit:	(Box 1) 26 lbs. (11.8 kg) (Box 2) 16 lbs. (7.26 kg)		
Dimensions of Kit:	(Box 1) 24" L x 10" W x 11" H (610 mm x 254 mm x 279 mm) (Box 2) 96" L x 5" W x 2" H (2438 mm x 127 mm x 51 mm)		

# DIMENSIONS





# **OPERATING INSTRUCTIONS / SETUP**

#### TRACK SETUP

Verify the workpiece is clean and free of contaminants such as rust and oil to insure maximum magnet holding power. Attach two **ARM-2010 "ON-OFF" Magnet Plate Assemblies (J)** one quarter of the length from each end of the track. The magnets hold the rail to a steel workpiece and give all position capability. Mount the **ARM-2015 Spacer Bar Assemblies (K)** between the **Magnet Plate Assemblies (J)** to provide additional rail support. The **ARR-1080** and **ARR-1085 Rails (I)** are supplied with a positive rail joining system that enables the user to construct a rail system of any length.

**IMPORTANT:** When cutting out of position, a safety line should be attached to rail to prevent injury.

#### POSITIONING AND ADJUSTING THE MACHINE ON THE TRACK

Disengage the clutch by centering the clutch **Knob (A)** over the hole in the cover and pulling the knob out. This disengages the drive pinion. Slide the carriage wheels into the track V-grooves from the end of the track. The carriage will move smoothly along the track if the wheels are properly aligned. The **GO-FER**<sup>®</sup> **IV** wheels are factory adjusted to fit ARR-1080 rails. Wheel adjustment should be verified

The **GO-FER**<sup>®</sup> **IV** wheels are factory adjusted to fit ARR-1080 rails. Wheel adjustment should on older machines. Grasp the carriage sides. The wheels are too loose if the carriage can be moved from side to side. Use a finger to keep one of the wheels from rotating while manually pushing the carriage along the track. The wheels are adjusted too tight if firm finger pressure is not enough to prevent wheel rotation.

#### WHEEL ADJUSTMENT

The wheels along one side of the carriage have **Stainless Shim Washers (C)** underneath. These wheels **(E)** are adjustable. Readjust these wheels (if necessary) by rotating the **Hex Bolt (B)** with a 1/2" (13 mm) wrench. Gently push the clutch **Knob (A)** back into the case while gently rocking the machine forward and backward. This will engage the drive pinion. The rocking motion is necessary to insure proper gear mesh.

# C O B

#### WELDING GUN SET-UP

Insert the **Racking Group (L)** into the torch holder on the rack. Attach the rod, the clamp and the gun to the end of the vertical tube rack. Clamp welding gun into gun clamp. Adjust the racking system to set the gun to the desired position. Support the gun cable in the **Cable Anchor (H)** provided. The cable anchor acts as a strain relief to keep the supply cable from dragging the gun out of position. 2-wire Contactor connections for 1 or 2 guns can be made to the 4-pin connector (supplied) located on the rear of the machine. Switch "I" controls (pins A & B); switch "II" controls (pins C & D).

#### **PLASMA TORCH SET-UP**

Insert the cutting torch into the torch holder on the rack. Adjust the torch holder, the clamp and the rack to set the torch to the desired position. Support the supply cable in the **Cable Anchor (H)** provided. The cable anchor acts as a strain relief to keep the supply cable from dragging the torch out of position. Connect the contactor circuit by crimping the two female connectors, (supplied) to a 22-18 gauge, two-conductor cable from the trigger circuit of the Plasma unit and plug them into the leads on the plug of the **Contactor Control Plug (M)**.

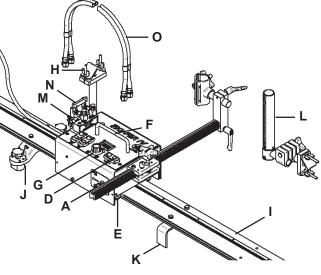
#### **OXY-FUEL TORCH SET-UP**

Insert the cutting torch into the torch holder on the rack. Adjust the torch holder, the clamp and the rack to set the torch to the desired position. Connect the **Hose Assembly (O)** to the **Quick Action Manifold (N)** and to the cutting torch. The manifold acts as a strain relief for the supply hoses as well as a quick shut off valve for the gases. Once the torch valves are adjusted, the manifold eliminates the need to readjust the valves after each cut and keeps the supply lines from dragging the torch out of position.

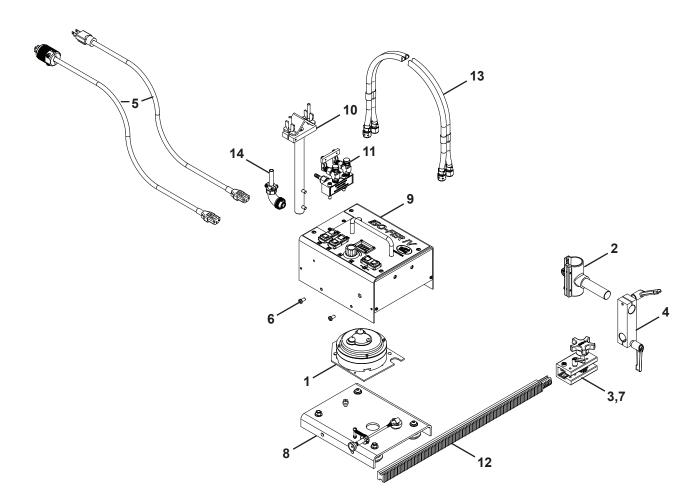
#### **MACHINE OPERATION**

Set Switch (D) to the center "STOP" position. Plug in the power cord. Verify the Power Indicator Light (F) comes on. Set Switch (D) to the forward or reverse position to begin forward or reverse travel. Adjust the travel speed using the Speed Control (G).

The Fuses protect the unit against overload or electrical faults. CAUTION: IF THE FUSES HAVE BLOWN, FIND AND CORRECT THE CAUSE BEFORE REPLACING.

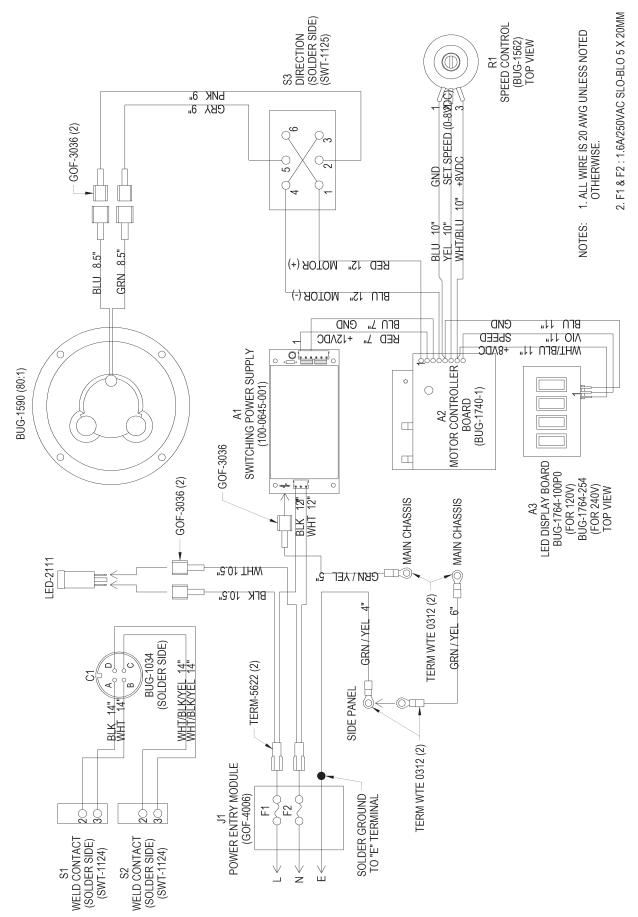


# GOF-4001, GOF-4003 GO-FER $^{\mbox{\tiny B}}$ IV BASE MACHINE / EXPLODED VIEW / PARTS LIST



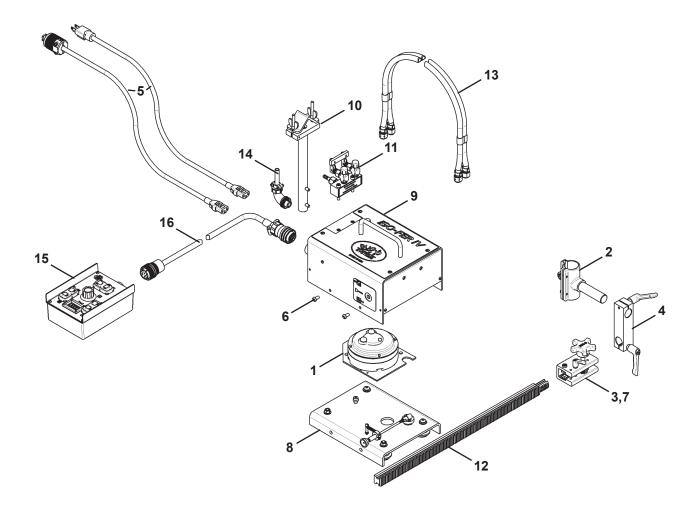
<b>ITEM</b>	<u>QTY</u>	PART NO.	DESCRIPTION
1	1	BUG-1625-D	Drive Assembly
2	1	BUG-5188	Torch Holder Assembly
3	1	BUG-5451	3.5" Rackholder
4	1	BUG-5462-5	Right Angle Clamp Assembly, 5" LG
5	1	BUG-9454	V-Lock 110VAC Cord 2M
		BUG-9454-240	V-Lock Power Cord (GOF-4003 only)
6	4	FAS-0155	Pan Hd Scr 1/4-20 x 1/2
7	2	FAS-0958	Flt Hd Soc Scr 1/4-20 x 7/8
8	1	GOF-3001	Carriage Assembly
9	1	GOF-4010	Cover Assembly
		GOF-4012	Cover Assembly (GOF-4003 only)
10	1	GOF-4018	Cable Anchor Assembly
11	1	GOF-4025	Manifold Assembly
12	1	PAN-1029	Rack 22-5/8"
13	1	CIR-1010-3	Hose Assembly
14	1	MUG-1617	Cable Connector, 4-T, F, Elbow

### **GO-FER® IV / WIRING DIAGRAM**



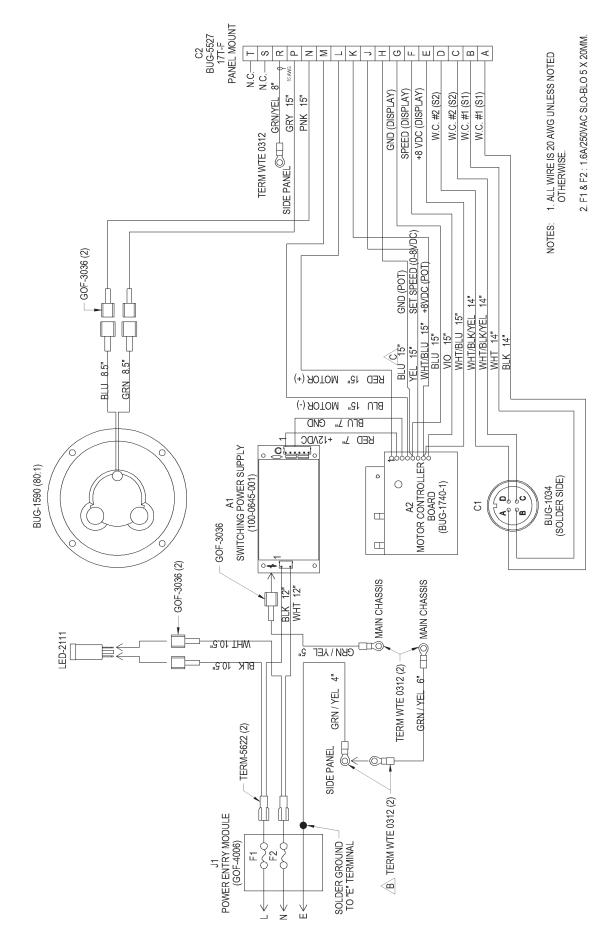
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# GOF-4101, GOF-4103 GO-FER® IV BASE MACHINE WITH PENDANT / EXPLODED VIEW / PARTS LIST



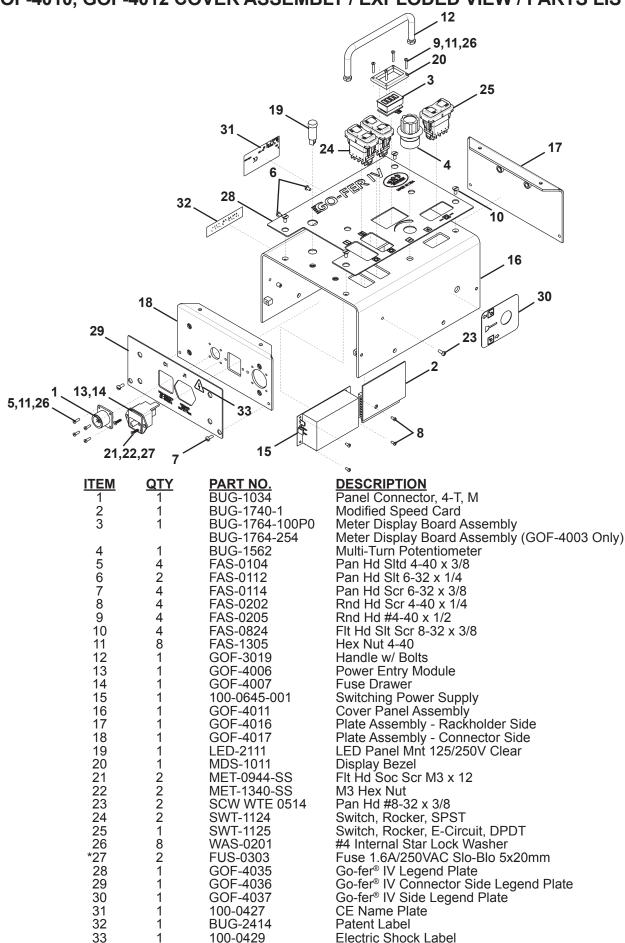
<b>ITEM</b>	<u>QTY</u>	PART NO.	DESCRIPTION
1	1	BUG-1625-D	Drive Assembly
2	1	BUG-5188	Torch Holder Assembly
3	1	BUG-5451	3.5" Rackholder
4	1	BUG-5462-5	Right Angle Clamp Assembly, 5" LG
5	1	BUG-9454	V-Lock 110VAC Cord 2M
		BUG-9454-240	V-Lock Power Cord (GOF-4103 only)
6	4	FAS-0155	Pan Hd Scr 1/4-20 x 1/2
7	2	FAS-0958	Flt Hd Soc Scr 1/4-20 x 7/8
8	1	GOF-3001	Carriage Assembly
9	1	GOF-4110	Cover Assembly
		GOF-4112	Cover Assembly (GOF-4103 only)
10	1	GOF-4018	Cable Anchor Assembly
11	1	GOF-4025	Manifold Assembly
12	1	PAN-1029	Rack 22-5/8"
13	1	CIR-1010-3	Hose Assembly
14	1	MUG-1617	Cable Connector, 4-T, F, Elbow
15	1	GOF-4150	Control Pendant
		GOF-4152	Control Pendant (GOF-4103 only)
16	1	GOF-4160-10	Control Pendant Cable, 10' Lg (Standard)
		GOF-4160-15	Control Pendant Cable, 15' Lg (Optional)
		GOF-4160-25	Control Pendant Cable, 25' Lg (Optional)
		GOF-4160-30	Control Pendant Cable, 30' Lg (Optional)

### **GO-FER® IV WITH PENDANT / WIRING DIAGRAM**



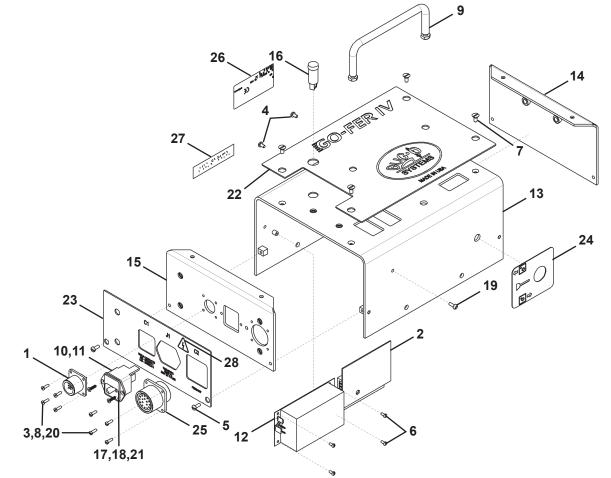
11

#### GOF-4010, GOF-4012 COVER ASSEMBLY / EXPLODED VIEW / PARTS LIST



\*Not shown

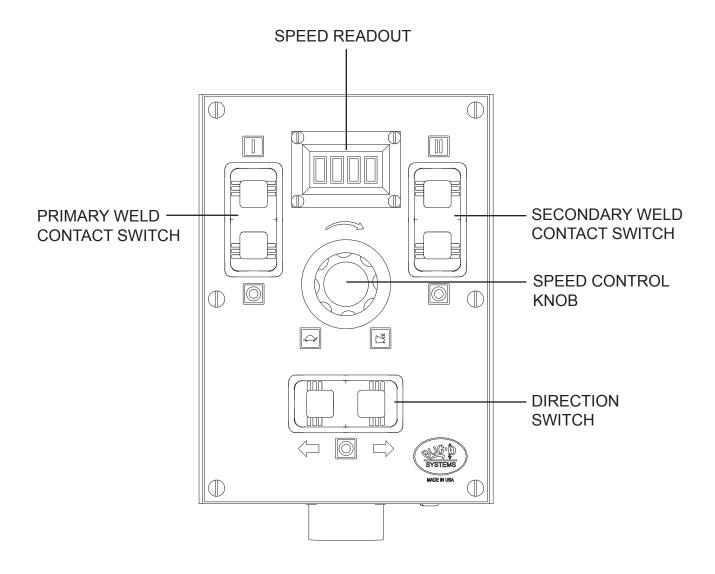
GOF-4110, GOF-4112 COVER ASSEMBLY / EXPLODED VIEW / PARTS LIST



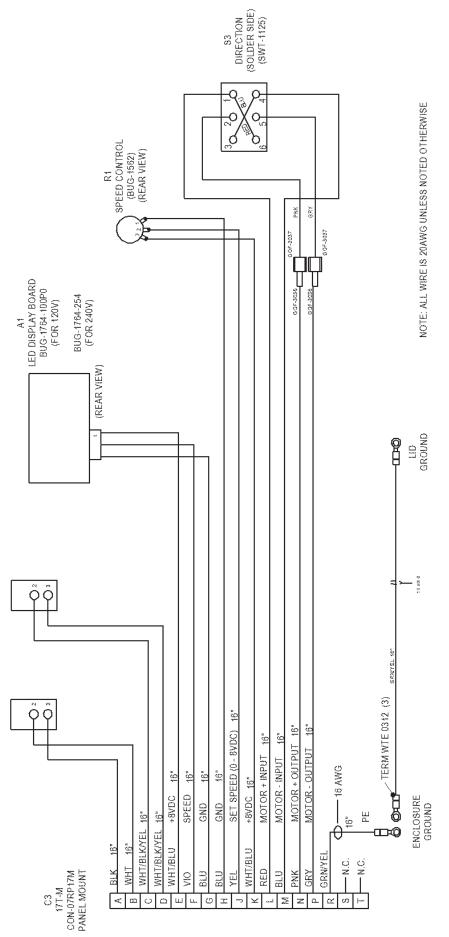
<u>ITEM</u>	QTY	PART NO.	DESCRIPTION
1	1	BUG-1034	Panel Connector, 4-T, M
2	1	BUG-1740-1	Modified Speed Card
3	4	FAS-0104	Pan Hd Sltd 4-40 x 3/8
4	2	FAS-0112	Pan Hd Slt 6-32 x 1/4
5 6	4	FAS-0114	Pan Hd Scr 6-32 x 3/8
6	4	FAS-0202	Rnd Hd Scr 4-40 x 1/4
7	4	FAS-0824	Flt Hd Slt Scr 8-32 x 3/8
8	8	FAS-1305	Hex Nut 4-40
9	1	GOF-3019	Handle w/ Bolts
10	1	GOF-4006	Power Entry Module
11	1	GOF-4007	Fuse Drawer
12	1	100-0645-001	Switching Power Supply
13	1	GOF-4011	Cover Panel Assembly
14	1	GOF-4016	Plate Assembly - Rackholder Side
15	1	GOF-4117	Plate Assembly - Connector Side
16	1	LED-2111	LED Panel Mnt 125/250V Clear
17	2	MET-0944-SS	Flt Hd Soc Scr M3 x 12
18	2	MET-1340-SS	M3 Hex Nut
19	2	SCW WTE 0514	Pan Hd #8-32 x 3/8
20	8	WAS-0201	#4 Internal Star Lock Washer
*21	2	FUS-0303	Fuse 1.6A/250VAC Slo-Blo 5x20mm
22	1	GOF-4135	Go-Fer <sup>®</sup> IV Legend Plate
23	1	GOF-4136	Go-Fer <sup>®</sup> IV Connector Side Legend Plate
24	1	GOF-4037	Go-Fer <sup>®</sup> IV Side Legend Plate
25	1	BUG-5527	Panel Connector 17-T, F
26	1	BUG-1338	Name Plate
27	1	BUG-2414	Patent Label
28	1	100-0429	Electric Shock Label

\*Not shown

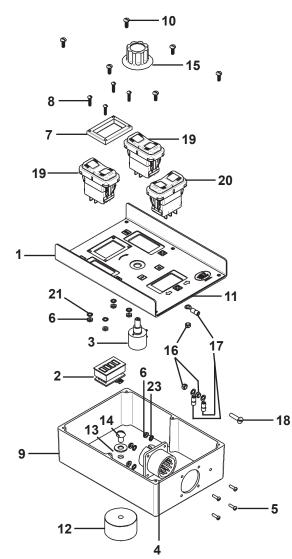
## GOF-4150, GOF-4152 PENDANT



### GOF-4150, GOF-4152 PENDANT / WIRING DIAGRAM

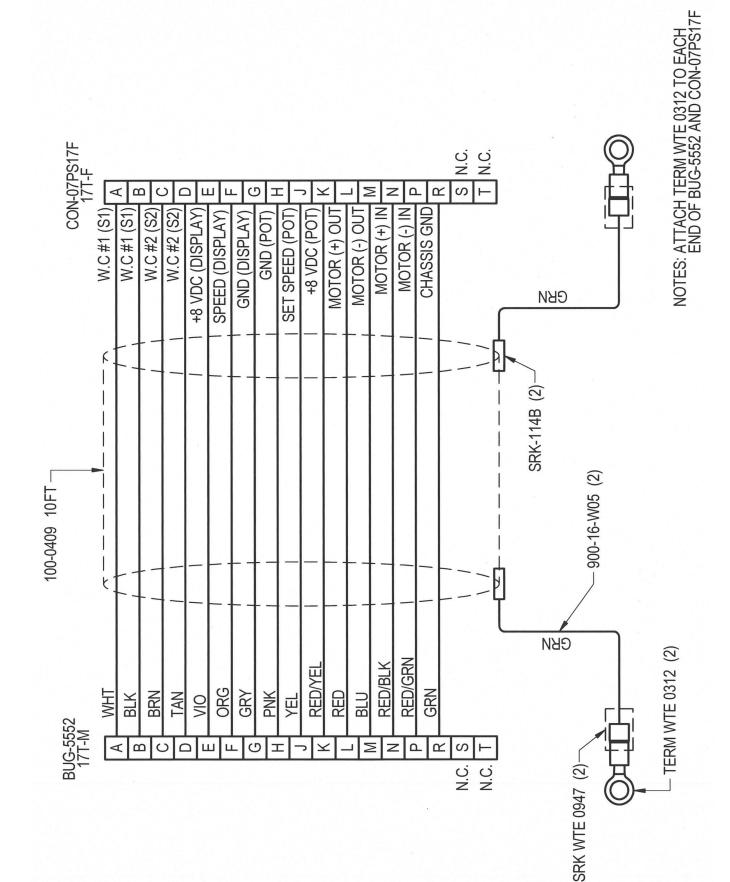


#### GOF-4150 GOF-4152/ EXPLODED VIEW / PARTS LIST



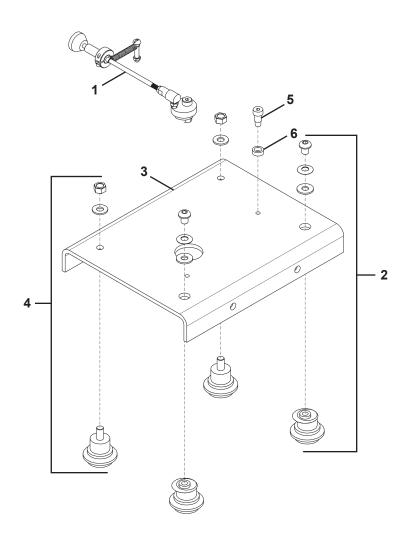
ITEM 1 2* 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	QTY 1 1 1 4 8 1 4 1 6 1 1 1 1 3 3 1 2	PART NO. GOF-4153 BUG-1764-100P0 BUG-1562 CON-07RP17M FAS-0240 FAS-1305 MDS-1011 FAS-0205-B HDT-1143-PRS MET-01431 GOF-4154 ARM-2101 WAS-0240 FAS-0254 BUG-9687 FAS-1322 TERM WTE 0312 FAS-0126 SWT-1124	DESCRIPTION Pendant Box Lid Meter Display Board 120V Potentiometer Panel Connector, 17-T, M Rnd Hd Slt Scr 4-40 x 3/8 Hex Nut 4-40 Display Bezel 4-40 x 1/2 Round Hd Pendant Box M3.5 x 10 Pan Head, Zinc Legend Plate Magnet, Round w/Cover 1/4 SAE Flat Washer Rnd Hd Scr 1/4-20 x 3/8 Knob #8 Hex Lock Nut Ring Lug #8 #8/32 x 5/8 Blk Rocker Switch - 2 Pin
21	8	WAS-0201	#4 Lock Washer

\*BUG-1764-254 Meter Display for 240V



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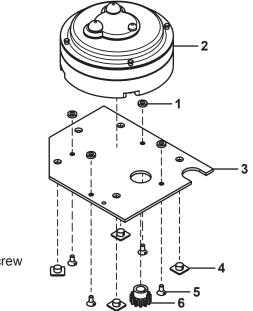
# **GOF-3001 CARRIAGE ASSEMBLY / EXPLODED VIEW / PARTS LIST**



ITEM	<u>QTY</u>	<u>PART NO.</u>	<u> </u>
1	1	BUG-1605	C
2	2	BUG-1982	E
3	1	GOF-3002	(
4	2	GOF-3003	F
5	1	GOF-3004	5
6	1	GOF-3008	5

DESCRIPTION Cam Clutch Assembly External Adj Leg & Wheel Assembly Carriage Plate Fixed Wheel Assembly Soc Hd Shld Scr, Clutch Pivot Swivel Spacer

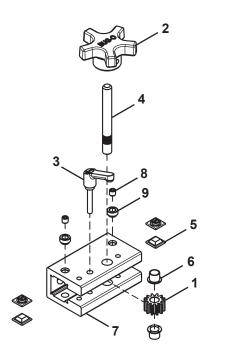
# **BUG-1625-D DRIVE ASSEMBLY / EXPLODED VIEW / PARTS LIST**



IIEM		<u>PART NO.</u>	DESCRIPTION
1	4	AFR-1015	Spacer Washer
2	1	BUG-1590	Gear Motor
3	1	BUG-1618	Swivel Plate
4	4	BUG-2593	Guide
5	4	FAS-0824	FIt Hd SIt Scr 8-32 x 3/8
6	1	GOF-3014	Drive Pinion w/ Key Set Screw
			•

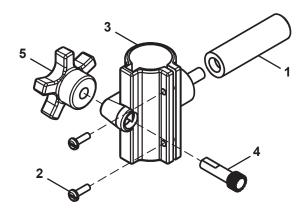
# BUG-5451 3.5" RACKHOLDER / EXPLODED VIEW / PARTS LIST

**ITEM** 



<u>QTY</u>	<u>PART NO.</u>	DESCRIPTION
1	BUG-2024	Spur Gear
1	BUG-2032	Knob
1	BUG-2234	Adjustable Clamping Lever
1	BUG-2424	Shaft
4	BUG-2594	Taper Glide
2	BUG-2939	Flanged Nyliner
1	BUG-5452	3 1/2" Rackholder Body
2	FAS-0452	Set Scr 1/4-20 x 1/4 Cup Point
2	SCF-1006	1/4-20 Self Clinching Nut
		-

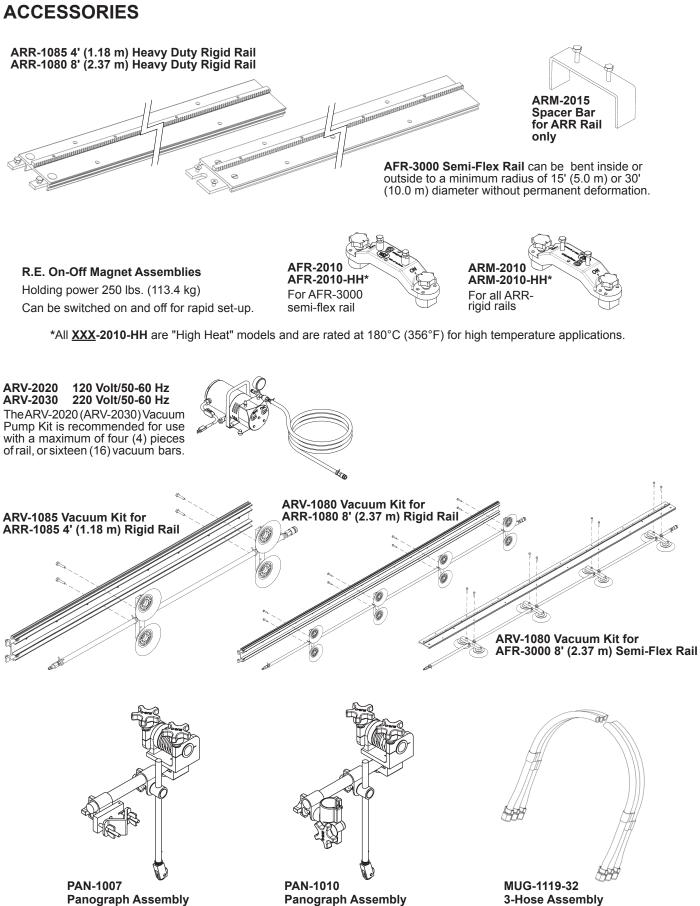
# **BUG-5188 TORCH HOLDER ASSEMBLY / EXPLODED VIEW / PARTS LIST**



ITEM	QTY	PART NO.	<b>DESCRIPTION</b>
1	1	BUG-2698	Rod 3"
2	2	FAS-0736	Fil Hd Scr 10-24 x 5/8
3	1	BUG-2916	Torch Holder Body
4	1	BUG-2033	Pinion
5	1	BUG-2032	Knob, Black

# GOF-4025 MANIFOLD ASSEMBLY / EXPLODED VIEW / PARTS LIST

ITEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	QTY 4 1 1 1 2 1 2 2 1 1 2 2	PART NO. BUG-2062 BUG-9096 BUG-9097 BUG-9113 BUG-9238 CIR-1012 CIR-1013 CIR-1014 FAS-0115 FAS-2551 GOF-3028 GOF-3032 GOF-3033 WAS-0210 GOF-3039	DESCRIPTION Male Thread Protector Outlet Bushing, Oxygen Outlet Bushing, Fuel Gas Manifold Block Nameplate Hose Nut, Oxygen 1/4" Hose Nipple Hose Nut, Fuel Gas 6-32 x 1/2 Pan Hd Soc Hd Cap Scr 1/4-20 x 1-1/4 Bar Toggle Valve Toggle Valve #6 SAE Flat Washer Plastic Handle w/ Pin
20			

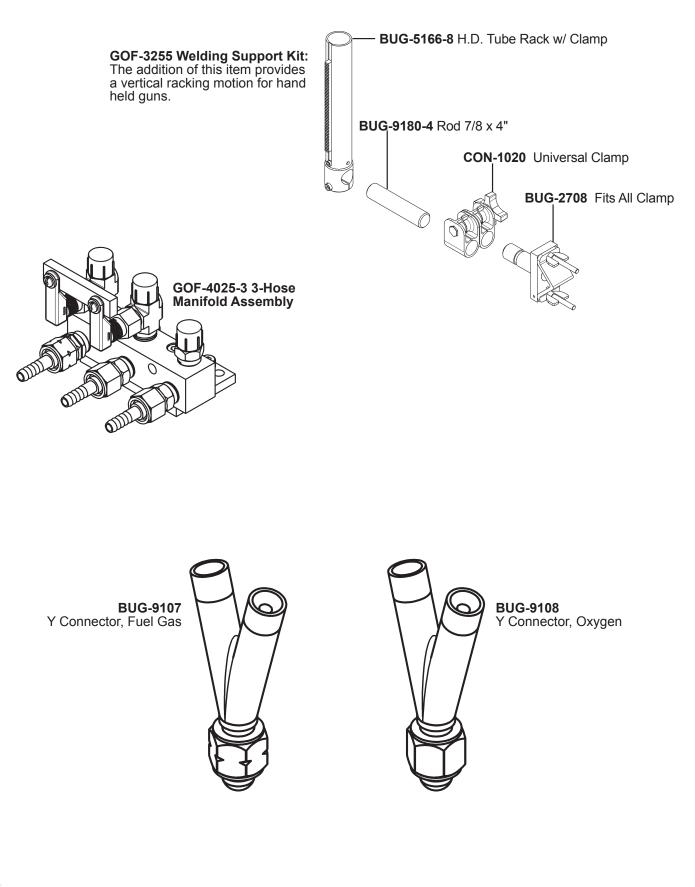


Panograph Assembly w/ Fits-All Clamp (For Other Torches)

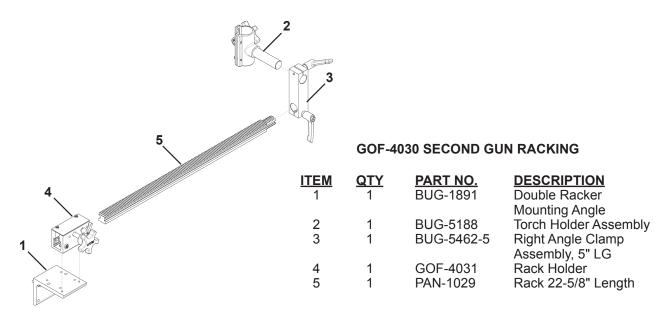
**Panograph Assembly** w/ Torch Holder (For U.S.A. Torches)

21

# ACCESSORIES, CONT'D.



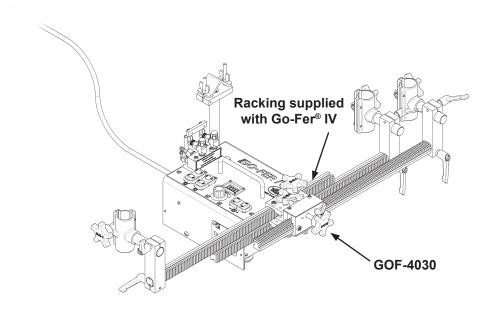
# ACCESSORIES, CONT'D.



#### To install GOF-4030 Dual Racking:

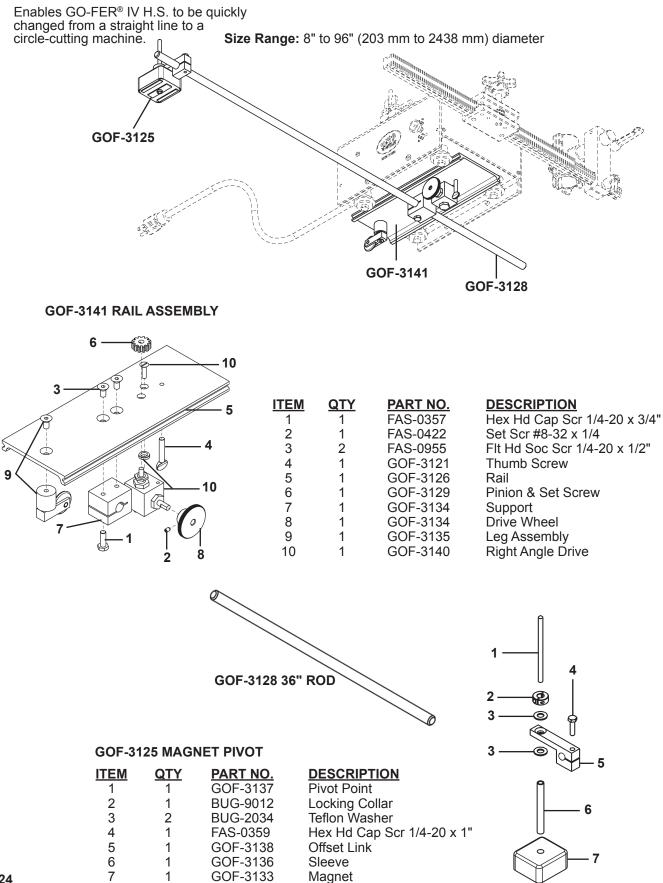
- Remove standard racking from the Go-Fer® IV, including clamp block
- Install the standard racking onto the BUG-1891 bracket
- Install the assembled racking to the Go-Fer® IV as shown below

Note: Both racking arms can be mounted with both gun holders on one side if preferred.



# ACCESSORIES, CONT'D.

#### **GOF-3142 Radius Cutting Attachment:**



### SPK-GOF-4001 GO-FER® IV SPARE PARTS KIT / PARTS LIST

QTY	PART NO.	DESCRIPTION
1	LED-2111	Power LED
1	100-0645-001	Power Supply
1	BUG-1764-100P0	LED Display
2	FUS-0303	Fuse, 1.6A
1	SWT-1124	Switch, SPST
1	SWT-1125	Switch, DPDT
1	BUG-1562	Pot, 10k 3-Turn
1	BUG-9687	Knob
1	GOF-4035	Go-Fer <sup>®</sup> IV Legend Plate
1	GOF-3014	Drive Pinion w/Key Set
1	BUG-1740-1	Screw Speed Card

## SPK-GOF-4003 GO-FER® IV SPARE PARTS KIT / PARTS LIST

QTY	PART NO.	<b>DESCRIPTION</b>
1	LED-2111	Power LED
1	100-0645-001	Power Supply
1	BUG-1764-254	LED Display
2	FUS-0303	Fuse, 1.6A
1	SWT-1124	Switch, SPST
1	SWT-1125	Switch, DPDT
1	BUG-1562	Pot, 10k 3-Turn
1	BUG-9687	Knob
1	GOF-4035	Go-Fer <sup>®</sup> IV
		Legend Plate
1	GOF-3014	Drive Pinion w/Key
		Set Screw
1	BUG-1740-1	Speed Card

#### SPK-GOF-4101 GO-FER® IV WITH PENDANT SPARE PARTS KIT / PARTS LIST

#### SPK-GOF-4103 GO-FER® IV WITH PENDANT SPARE PARTS KIT / PARTS LIST

QTY	<u>PART NO.</u>	<b>DESCRIPTION</b>	QTY	PART NO.	DESCRIPTION
1	BUG-1562	Pot, 10k 3-Turn	1	BUG-1562	Pot, 10k 3-Turn
1	BUG-1740-1	Speed Card	1	BUG-1740-1	Speed Card
1	BUG-1764-100P0	LED Display	1	BUG-1764-254	LED Display
1	BUG-9687	Knob	1	BUG-9687	Knob
2	FUS-0303	Fuse, 1.6A	2	FUS-0303	Fuse, 1.6A
1	GOF-3014	Drive Pinion w/Key Set	1	GOF-3014	Drive Pinion w/Key Set
		Screw			Screw
1	100-0645-001	Power Supply	1	100-0645-001	Power Supply
1	GOF-4135	Go-Fer <sup>®</sup> Legend Plate	1	GOF-4135	Go-Fer <sup>®</sup> Legend Plate
1	GOF-4136	Go-Fer <sup>®</sup> IV End Legend	1	GOF-4136	Go-Fer <sup>®</sup> IV End Legend
		Plate			Plate
1	LED-2111	Power LED	1	LED-2111	Power LED
1	SWT-1124	Switch, SPST	1	SWT-1124	Switch, SPST
1	SWT-1125	Switch, DPDT	1	SWT-1125	Switch, DPDT

# **TROUBLESHOOTING 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.	Wiring shorts. Fuses blown.	Disconnect machine and examine internally; rewire at fault.
	T USES DIOWN.	If none found, throw direction switch to "OFF", replace fuses and plug in:
	Shorted motor.	If fuses are not blown, replace drive unit.
	Faulty speed control board.	If fuses blow again, replace control board.
		(OR)
	Defective power supply board.	Replace power supply board.
Does not run, indicator light on.	Bad connection.	Check wiring connections, 12 VDC should appear across output of power supply board.
		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 speed control board. (Check connection first).

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

# **BUG-O SYSTEMS INTERNATIONAL**

## EC DECLARATION OF CONFORMITY

Manufacturer and technical Documentation Holder:	Bug-O Systems International a Division of Weld Tooling Corporation 280 Technology Drive Canonsburg, PA 15317-9564
Hereby declare that machinery:	GO-FER IV, including options and accessories
Sales codes:	GOF-4000, GOF-4001, GOF-4002, GOF-4003 (sales code may also contain prefixes and suffixes)

Is in conformity with Council Directives and amendments:

- 2006/42/EC Machinery Directive.
- 2014/35/EU Electromagnetic Compatibility (EMC) Directive
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

Standards:

- EN 12100:2010 Safety of Machinery General principles for design Risk assessment and risk reduction.
- EN 60204-1:2016 Safety of machinery Electrical equipment of machines Part 1: General Requirements.
- EN 61000-6-2 Electromagnetic compatibility (EMC) Part 6-2 Generic standards Immunity for industrial environments.
- EN 61000-6-4 Electromagnetic compatibility (EMC) Part 6-4 Generic standards Emissions for industrial environments.
- EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to restriction of hazardous substances.

The machinery, product, assembly or sub-assembly covered by this Declaration of Conformity must not be put into service until the machinery into which it is to be incorporated (if applicable) is declared in conformity with provisions of the applicable directives(s).

Authorized representative for the compilation of the relevant technical documentation and issuer of EC Declaration of Conformity:

Date of Issue: June 19, 2019

Place of issue: 280 Technology Drive, Canonsburg, PA 15317, USA Typed Name of Authorized Person: MATTHEW W. CABLE - PRESIDENT **Limited 3-Year Warranty** 

Model		
Serial No.		
Date Purchased:		
Where Purchased:		

For a period ending one (1) year from the date of invoice, Manufacturer warrants that any new machine or part is free from defects in materials and workmanship and Manufacturer agrees to repair or replace at its option, any defective part or machine. HOWEVER, if the invoiced customer registers the Product Warranty by returning the Warranty Registration Card supplied with the product within 90 days of the invoice date, or by registering on-line at www.bugo.com, Manufacturer will extend the warranty period an additional two (2) years which will provide three (3) total years from the date of original invoice to customer. This warranty does not apply to machines which, after Manufacture's inspection are determined by Manufacturer to have been damaged due to neglect, abuse, overloading, accident or improper usage. All shipping and handling charges will be paid by the customer.

The foregoing express warranty is exclusive and Manufacturer makes no representation or warranty (either express or implied) other than as set forth expressly in the preceding sentence. Specifically, Manufacturer makes no express or implied warranty of merchantability or fitness for any particular purpose with respect to any goods. Manufacturer shall not be subject to any other obligations or liabilities whatsoever with respect to machines or parts furnished by Manufacturer.

Manufacturer shall not in any event be liable to Distributor or any customer for any loss of profits, incidental or consequential damages or special damages of any kind. Distributor's or customer's sole and exclusive remedy against Manufacturer for any breach of warranty, negligence, strict liability or any other claim relating to goods delivered pursuant hereto shall be for repair or replacement (at Manufacturer's option) of the machines or parts affected by such breach.

#### **Distributor's Warranty:**

In no event shall Manufacturer be liable to Distributor or to any customer thereof for any warranties, representations or promises, express or implied, extended by Distributor without the advance written consent of Manufacturer, including but not limited to any and all warranties of merchantability or fitness for a particular purpose and all warranties, representations or promises which exceed or are different from the express limited warranty set forth above. Distributor agrees to indemnify and hold Manufacturer harmless from any claim by a customer based upon any express or implied warranty by Distributor which exceeds or differs from Manufacturer's express limited warranty set forth above.

#### 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 they 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.