

# STANLEY®

## EP30200 ELECTRONIC PIN BRAZING UNIT



### USER MANUAL Safety, Operation and Maintenance



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Milwaukie, OR 97267 U.S.A.  
69924 4/2024 Ver. 20

# DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY  
ÜBEREINSTIMMUNGS-ERKLÄRUNG  
DECLARATION DE CONFORMITE CEE  
DECLARACION DE CONFORMIDAD  
DICHIARAZIONE DI CONFORMITA

**STANLEY.**



I, the undersigned:  
Ich, der Unterzeichnende:  
Je soussigné:  
El abajo firmante:  
Io sottoscritto:

**Weisbeck, Andy**

Surname and First names/Familiennamen und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder:  
bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät:  
déclare que l'équipement visé ci-dessous:  
Por la presente declaro que el equipo se especifica a continuación:  
Dichiaro che le apparecchiature specificate di seguito:

- Category: **Pin Braze / Safebond Unit (Product Group-Railroad)**  
Kategorie:  
Catégorie:  
Categoria:  
Categoria:
- Make/Marke/Marque/Marca/Marca **Stanley**
- Type/Typ/Type/Tipo/Tipo: **EP30 / EP60**
- Serial number of equipment:  
Seriennummer des Geräts:  
Numéro de série de l'équipement:  
Numero de serie del equipo:  
Matricola dell'attrezzatura: **All**

Has been manufactured in conformity with  
Wurde hergestellt in Übereinstimmung mit  
Est fabriqué conformément  
Ha sido fabricado de acuerdo con  
E' stata costruita in conformità con

Directive/Standards Richtlinie/Standards Directives/Normes Directriz/Los Normas Direttiva/Norme	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato
EMC Directive	2004/108/EC	Self
SS-EN	60974-10	Self

- Special Provisions: **None**  
Spezielle Bestimmungen:  
Dispositions particulières:  
Provisiones especiales:  
Disposizioni speciali:
- Representative in the Union: **Patrick Vervier, Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France.**  
Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a Stanley, Milwaukie, Oregon USA Signature/ \_\_\_\_\_ Date/Datum/le/Fecha/Data 1-10-11

Unterschrift/Signature/Firma/Firma

Position/Position/Fonction/Cargo/Posizione Director of Product Development

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## IMPORTANT

To fill out a product warranty validation form, and for information on your warranty, visit [www.stanleyinfrastructure.com](http://www.stanleyinfrastructure.com) and select the Company tab > Warranty.

**Note: The warranty validation record must be submitted to validate the warranty.**

**SERVICING:** This manual contains safety, operation and routine maintenance instructions. STANLEY recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

## ⚠ WARNING

**SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.**

**REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.**

For the nearest certified dealer, call STANLEY at (503) 659-5660 and ask for a Customer Service Representative.



# SAFETY PRECAUTIONS

- Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.
- These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.
- Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided in this manual.
- This tool will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool before operation. Failure to do so could result in personal injury or equipment damage.
- Do not operate a damaged, improperly adjusted or incompletely assembled tools.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Do not exceed the rated limits of the tool or use the tool for applications beyond its design capacity.
- Always keep critical tool markings, such as labels and warning stickers, legible.
- Always replace parts with replacement parts recommended by STANLEY.



- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes, dangerous terrain conditions and rail traffic.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, ear, head protection and respiratory protection at all times when operating the tool.
- Do not inspect or clean the tool while the battery power source is connected. Accidental arcing can cause serious injury.
- Do not load brazing pins or ceramic rings while the battery power source is connected. Accidental arcing can cause serious injury.
- Do not use the tool while it is connected to a battery charger.
- Ensure battery charging is only done in a dry environment. Charging batteries in the rain or near standing water presents an electrocution hazard. Read the safety and operation instructions provided with the battery charger before using the battery charger.

# EP30200 OPERATION

## GENERAL PROTECTION

Store the Electronic Pin Brazing Unit in a place where it is protected from the elements, abrasive dust and damage.

Use only recommended replacement parts and materials specified in the Parts List section of this manual.

Use only recommended accessories specified in the Parts List section of this manual.

Do not use the Electronic Pin Brazers for applications it was not designed for.

Use the carrying handle to transport the unit.

## CLEANING

Establish a routine to keep the unit as free from dirt as possible – daily, or at each shift change.

Pin Brazers exposed to rain, sand or grit-laden air should be cleaned prior to each use.

Keep tool labels and stickers legible.

## PREPARATION PROCEDURES

Before putting a new Pin Brazer into initial service, or after an extended period of being unused, perform a visual inspection for bent, broken, cracked, missing or worn components.

## INITIAL SETUP AND BATTERY CHARGING

### **⚠ WARNING**

Failure to follow the instructions in the battery charger operation manual can result in battery explosion and serious bodily injury. To reduce the risk of battery explosion, read and understand the safety and operation instructions in the battery charger operation manual, the instructions published by the battery manufacturer and the instructions in this manual before attempting to charge the batteries.

### **⚠ WARNING**

Make sure battery charging is only accomplished in a well ventilated room. DO NOT PLACE THE CONTROL BOX ON TOP OF THE BATTERIES. REMOVE THE BATTERY BOX COVER. Battery charging produces explosive gases. A battery explosion can cause serious injuries. Avoid battery explosions by keeping cigarettes, sparks and flames away from batteries during charging. Always wear safety glasses when working with batteries.

1. The three batteries furnished are sealed, maintenance free batteries.

Sealed, maintenance free batteries do not contain cell caps and are already filled with battery acid. They will require charging before use.

### **NOTICE**

Use only battery charger specially made for pin brazing units (36V DC) approved by STANLEY.

2. Locate the four battery cables and connect them to the terminals on the batteries and the battery box as shown in Figure 1. Do not replace the lid on the battery box at this time.

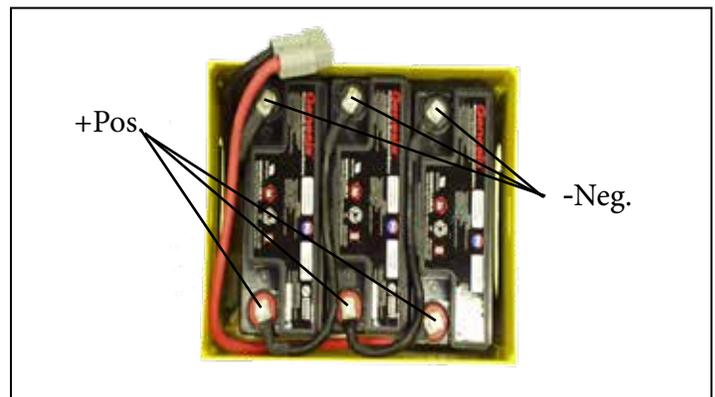


Figure 1: Battery cable and terminals

3. Insert the enclosed foam-rubber spacers between each battery and at both ends between the battery and the unit.
4. Connect the battery charger to the grinder outlet on the unit, then to the mains. When removing the charger re-

# EP30200 OPERATION

move the main first, then remove the plug from the unit.

5. Batteries will fully charge in approximately 3-5 hours. Follow the instructions in the battery charger manual to complete the charging process.
6. Plug the two cable leads from the adapter box into the battery box.
7. Insert the plug from the battery charger into the grinder outlet on the adapter box.
8. Plug the battery charger into a standard 110 Volt AC outlet.
9. Follow the instructions in the battery charger manual to complete the charging process.

## CONNECTIONS

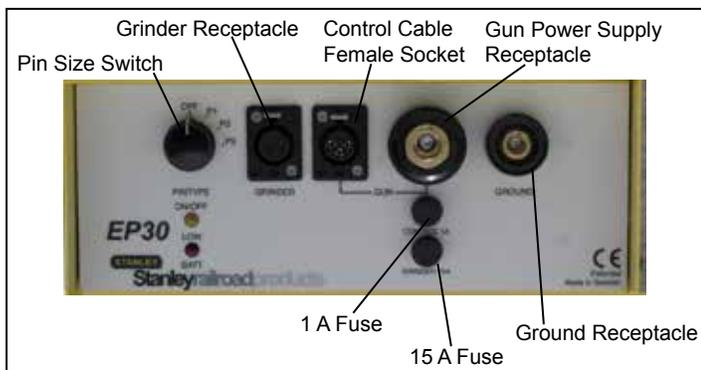


Figure 2: EP30 Connections

1. Connect the brazing gun, power and trigger cables to the unit.
2. Connect the ground cable.
3. Connect the grinder.

## OPERATION

### Prepare the rail surface

Select the type and length of bonding cable to use for the bond. Use it as a guide to determine where brazing points on the rail will be required.

## CAUTION

Always use eye protection when grinding and brazing.

1. Grind the surface of the rail where brazing is going to be done, until the surface shows shiny metal, free of rust, corrosion, pits or other contamination. When grinding, use the edge of the grinding wheel - not the face of the wheel.  
**Note: Use only grinding wheels furnished by STANLEY. Other wheels have shown to leave residues which cause faulty brazing.**
2. Grind the surface of the rail where the grounding cable will be placed to ensure a good ground. The grounding cable should be placed in close proximity to the brazing area.

## PLACING THE GROUNDING CABLE

3. When finished grinding the rail, place the grounding cable on the cleaned surface and then insert the other end into the twist lock receptacle, in the control box marked "GROUND" or "EARTHING". Twist to lock.

## SELECT PINS AND RINGS

4. Select brazing pins and ceramic rings to match the specifications of the bonding cable you selected.

## CHANGING PIN AND RING HOLDER

5. Check that the pin holder and ring holder on the gun are the correct sizes for the brazing pins and ceramic rings you selected. If the sizes are incorrect, the pin holder and ring holder can be changed as follows:
  - a. The ring holder is "push fit" onto the gun. To remove it from the gun, simply pull it away.
  - b. The pin holder is threaded onto a threaded shaft in the gun and locked in place with a nut. Place an open end wrench over the nut and an open end wrench over the flats on the pin holder. While holding the nut in place, unscrew the pin holder counter clockwise.

# EP30200 OPERATION

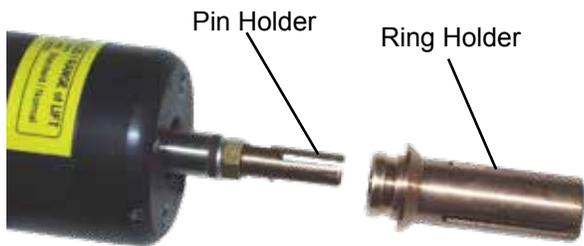


Figure 3. Pin and Ring Holder

c. Install the correct pin holder and tighten it securely against the nut.

## IMPORTANT

Never twist the axle when mounting the pin holder.

d. Install the correct ring holder by placing it over the pin holder and into the circular groove in the gun. Push it to seat it in place.

## LOADING PIN AND RING

6. Insert the brazing pin into the pin holder. The rounded tip should be facing away from the gun.
7. Insert the ceramic ring into the ring holder. The serrated edge should be facing away from the gun. See Figure 4.



Figure 4: Loading pin and ring

## ADJUSTING BRAZING PIN DISTANCE TO BRAZE SURFACE

The BG10100 automatically adjusts the correct distance of the brazing pin to the surface to be brazed.

**Note:** The BG10100 may be adjusted manually if necessary using the dial located on the back of the gun.

The settings are as follows:

- + = 2.5 mm distance
- 0 = 2.0 mm distance (normal position)
- = 1.5 mm distance



Figure 2: Gun Adjustment Dial

8. Plug the two gun cables into the appropriate outlets on the control box.

## SET CONTROL FOR PIN SIZE

9. Set the PIN TYPE switch on the control box for the appropriate pin type being used. See Figure 3 below.

Brazing Pin	Setting
8 mm Std	P1
8 mm Extra	P2
9.5 mm	P3



Figure 3: Pin Type Control Switch

10. Position the terminal lug of the bonding cable against the cleaned surface of the rail. Position the gun against the cable lug so that the brazing pin is at the top edge of the cable lug hole. See Figure 4 below.

# EP30200 OPERATION



Figure 4: Gun position

## IMPORTANT

**Make sure the correct ferrule and brazing pin are used. The pin braze must be made in the top of the hole when brazing to a vertical surface.**

1. Hold the gun firmly with both hands and pull the trigger once. The electronics will finish the braze automatically.
2. Hold the gun in place for 3-4 seconds after the brazing is complete to allow for cooling. Then remove the gun straight backwards, without pulling trigger.
3. After the braze has cooled, knock the shank off the brazing pin using a hammer.
4. Use a new ceramic ring for each new pin braze.

**Note: A red light indicates low batteries on the unit. Charge as soon as possible.**

# TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Brazeing pin does not ignite or does not ignite long enough.	Batteries not charged or are defective.	Test batteries for proper charge. Replace and/or charge as necessary.
	Blown fuse.	Check fuses.
	Magnetic ground faulty.	Ensure the grounding surface is clean. Check magnetic ground cable and plug for damage.
	Faulty cables.	Check gun cables and plugs for damage.
	Bonding surface contaminated.	Check that the brazing surface is ground clean.
Braze is faulty.	Batteries not charged or are defective.	Test batteries for proper charge. Replace and/or charge as necessary.
	Incorrect PIN TYPE setting.	Check PIN TYPE setting on the control box.
	Magnetic ground faulty.	Ensure the grounding surface is clean. Check magnetic ground cable and plug for damage.
	Bonding surface contaminated.	Check that the brazing surface is ground clean.
	Incorrect grinding wheel is used.	Use only Tyrolit grinding wheels or carbide burr.
	Ceramic ring was not positioned square to the lug.	Ensure ring is positioned correctly.
	Brazing pin not positioned correctly in lug hole.	Ensure pin is positioned correctly.

# EQUIPMENT MAINTENANCE & CARE

## NOTICE

**In addition to the Safety Precautions in this manual, observe the following for equipment protection and care.**

- Check that the pin holder is not burnt or not holding the pin tightly. Remove the ring holder, clean all the parts and squeeze the fingers of the pin holder together.
- Check the cables on the gun for damage. Replace as required.
- Check that the lift level is correct with the lift level tool.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Always keep critical equipment markings, such as warning stickers and tags, legible.
- Equipment repair should be performed by experienced personnel only.
- Do not use the equipment for applications for which it was not intended.

# SPECIFICATIONS

## EP30200

Voltage.....	36V DC
Approximate Number of Brazings per Battery Charge .....	40-60
Weight .....	44 lbs / 20 kg
Overall Length .....	12.5 in. / 315 mm
Overall Width.....	8.75 in. / 220 mm
Overall Height.....	16 in. / 400 mm

ACCESSORIES			
Item No.	Part No.	Qty	Description
1	72974	1	Carrying Case
2	EP30K110	1	Pin Brazing Kit, 110vac. Kit Includes: BG10100 pin brazing gun, EP30200 pin brazing unit, DCG426M2 DeWalt grinder kit, battery charger, 3 batteries, 73358 carbide burr.
3	35866	1	Battery Charger
4	40409	3	Battery, Genesis 16 amp, 12v
5	72776	4	Non-spillable Battery Label
6	73358	1	Carbide Burr SF-5
7	EP30200	1	Medium Duty Elec. Pin Brazing Unit (No Gun)
8	BG10100	1	Pin Brazing Gun
10	EP30K12110	1	Pin Brazing Kit 110V/12VDC. Kit Includes: BG10100 Pin brazing gun, EP30200 pin brazing unit, DCG426M2 DeWalt grinder kit, extension cables, battery charger, 3 batteries, 800 Watt inverter, carrying case, 73358 carbide burr.
11	73358	1	Carbide Burr (1/4 in. Shank)
12	72974	1	Carrying Case
13	35818	1	Extension Cable for S4 Pistol
14	35819	1	Extension Cable for Earth 5m
15	35866	1	Battery Charger
16	40409	3	Battery, Genesis 16A 12V (3)
17	84936	1	Inverter 1000 Watt
18	72776	1	Non-spillable Battery Label
19	EP30200	1	Medium Duty Elec. Pin Brazing Unit
20	BG10100	1	Pin Brazing Gun

# ACCESSORIES

No.	Part No.	Qty	Description	Required	For use on rail only:
1	35835	1	8mm	35832	
2	35836	1	8mm with extra silver	35832	
3	35837	1	9.5mm	35833	
4	35840	1	M8/12 threaded	35834	
5	35841	1	M10 threaded	35834	
6	35839	1	M12 threaded	35834	

## CERAMIC RINGS

Item No.	Part No.	Qty	Description	
7	35832	1	8mm	
8	35833	1	9.5mm	
9	35834	1	12mm	

## PIN & RING HOLDERS

Item No.	Part No.	Qty	Description	
10	35826	1	Pin Holder for Pin brazing, 8-9,5 mm brazing pins.	
11	35827	1	Pin Holder for Pin brazing, M8 Threaded pins.	
12	35828	1	Pin Holder for Pin brazing, M10 Threaded pins.	
13	35829	1	Pin Holder for Pin brazing, M12 Threaded pins.	
14	35825	1	Extended pin and ring holder set for 8-9,5 mm brazing pins.	
15	35830	1	Ring Holder, 8-9,5 mm ceramic rings.	
16	35831	1	Ring Holder, M8/M10/M12 mm ceramic rings.	

## CABLE LUGS

Item No	Part No.	Qty	Description	Brazing Pin Required	
17	47523	1	Braze Lug for 25 mm Cable	35836	
18	47524	1	Braze Lug for 35 mm Cable	35836	
19	47525	1	Braze Lug for 50 mm Cable	35836	
20	39241	1	Cable Shoe #6	35836 x2	
21	35847	1	Cable Shoe 10 mm	35835	
22	35855	1	Cable Shoe D=8 mm	35836	
23	47526	1	Cable Lug for 16 mm Cable	35835	
24	47527	1	Cable Lug for 25 mm Cable	35836	
25	47528	1	Cable Lug for 35 mm Cable	35836	
26	47529	1	Cable Lug for 50 mm Cable	35836	
27	47522	1	Cable Lug 5/8" ground rod to #2 cable	35836 x2	
28	47521	1	Braze Sleeve #6 to #6	35836	
29	41625	1	Multi-Wire Track Connection	35836 x2	
30	67122	1	Brazing Clip (Secures Wire to Rail)	35835	

# ACCESSORIES

BONDING CABLE WITH LUGS (for pin brazing)					
Item No.	Part No.	Qty	Description	Brazing Pin Required	
31	35845	1	Contact Bond / 50 mm <sup>2</sup> , 185 mm long, copper	35837	
32	35844	1	Contact Bond / 25 mm <sup>2</sup> , 145 mm long, copper	35835	 <p>35844 Pictured</p>
33	39243	1	3/16 Bond, 300 mm long	35835	
34	39244	1	Bond 25 mm <sup>2</sup> , 200 mm long	35835	
35	37944	1	Rail Bond 50 mm <sup>2</sup> , 185 mm long	35836	
36	39705	1	Bond Wire 16" OAL x 25 mm	35835	 <p>39242 Pictured</p>
37	39706	1	Bond Wire 24" OAL x 25 mm	35835	
38	39707	1	Bond Wire 36" OAL x 25 mm	35835	
39	39242	1	3/16 Bond Crimp-able Sleeve	35835	
40	40366	1	Signal Extension Bond 3/16" (170 mm)	35835	 <p>40366 Pictured</p>
41	40091	1	Signal Extension Bond 150 mm L=430	35837	
42	40090	1	Signal Extension Bond 2 x 35 mm - 2 x L=170	35836	
43	41635	1	3/16 Signal Bond Wire W/Eye & Crimp-able sleeve, 24" long.	35835	
44	41815	1	3/16 Bond 12' Long Eyelet one end, AL block for T.I.G. Weld Other End	35835	 <p>41635 Pictured</p>
45	43686	1	Extension Bond CU, 25 mm <sup>2</sup> , x 330 mm Long	35835	
46	43519	1	3/16 Extension Bond 12"	35835	
47	41225	1	Bond Wire 34" Long C/L-C/L W/9 mm eyelets on both ends	35835	
48	41226	1	Bond Wire 46" Long C/L-C/L W/9 mm eyelets on both ends	35835	
49	66579	1	25mm2 x 500mm Extension Bond	35835	
50	66580	1	25mm2 x 900mm Extension Bond	35835	
51	66269	1	Signal Bond 3/16" x 6' Braze Lug Both Ends	35835	
52	67634	1	Railbond 300 mcm L=330 mm Uninsulated (4) 9.5 Pins Required	35837	
53	73652	1	Railbond 300 mcm L=430 mm Use with 4X Pins		
54	73016	1	Railbond 300 MCM		67634 Pictured
55	72988	1	Railbond 3/16, 4 in. Reversed (50 pack)		
56	72989	1	Railbond 3/16, 6 in. Reversed (50 pack)		
57	67635	1	Extension Bond 300 mcm x 200 mm crimp, 2) 9.5 Pins Required	35837	 <p>67635 Pictured</p>
58	47530	1	Bungalow Grounding Bond 3/16"	35836	
59	80784	1	Railbond 95mm <sup>2</sup> , L=155mm, bare copper	35837	
60	81167	1	Railbond 95mm <sup>2</sup> , L=155mm 60°, bare copper	35837	
61	80785	1	Railbond 95mm <sup>2</sup> , L=255mm, bare copper	35837	
62	81168	1	Railbond 95mm <sup>2</sup> , L=255mm 60°, bare copper	35837	
63	80786	1	Railbond 95mm <sup>2</sup> , L=355mm, bare copper	35837	
64	81169	1	Railbond 95mm <sup>2</sup> , L=355mm 60°, bare copper	35837	

# ACCESSORIES

## "T" CONNECTIONS (for pin brazing)

Item No.	Part No.	Qty	Description	Brazing Pin Required	
65	35857	1	Type C Copper Plate with M8 x 18 Brass Threaded Stud T-Bolt	35835 x2	
66	35861	1	Type D Copper Plate with M16 x 32 Stainless Steel Threaded Stud T-Bolt	35837 x4	

## GRINDER ABRASIVES

Item No.	Part No.	Qty	Description	
67	73358	1	Carbide Burr (1/4" Shank)	
68	35810	1	Grinding Wheel - <b>NOT for SafeBonding!</b>	
69	73052	1	Bull Nose Stone, 2" (1/4" Shank)	

## GRINDER

Item No.	Part No.	Qty	Description
71	DCG426M2	1	Cordless Grinder Kit. Includes (2) Battery (1) Charger.



## COLD WEATHER ACCESSORIES

Item No.	Part No.	Qty	Description
71	82788	1	Instant Hot Packs, 5" x 9", 24 Pack
72	82789	1	Heat Pack, Body Warmer, 240 ct.
73	DHX165	1	Electric Heater, 120V

## REPLACEMENT PARTS

Item No.	Part No.	Qty	Description
74	88916	1	Front Piece for SB4 & SB15 Brazing Guns

# ACCESSORIES

## FUSES, CHARGERS & BATTERIES

Item No.	Part No.	Qty	Description	
75	56557	1	Fuse, PCB EP30/60	
76	56558	1	Fuse, Grinder Outlet EP30	
77	56559	1	Fuse, Control Cable EP30	
78	35866	1	Charger 36 VDC 7 AMP EP30/60 W/ Special DC plug.	
79	84936	1	Inverter 1000 Watt	
80	40409	1	Battery 16 AMP 12 Volt EP30	
81	82877	1	EP30 Cart	

## CABLES

Item No.	Part No.	Qty	Description	
82	35820	1	Extension Cable for Grinding	
83	35819	1	Extension Cable for Ground	
84	41768	1	Adapter, Charging	
85	62214	1	Pigtail Charge Adapter	
86	66266	1	Ground Clamp Assembly (Vise Grip Style)	

# ACCESSORIES

## CABLES

Item No.	Part No.	Qty	Description
87	72999	1	Econnect Ground Magnet (Magnetic ground for econnect kit)
88	35818	1	Extension Cable for S4 Brazing Gun
89	35816	1	Standard Cable for S4 Pistol 2.7m/8.8ft
90	35817	1	Long Cable for S4, 4.5m/14.75ft

## GUNS

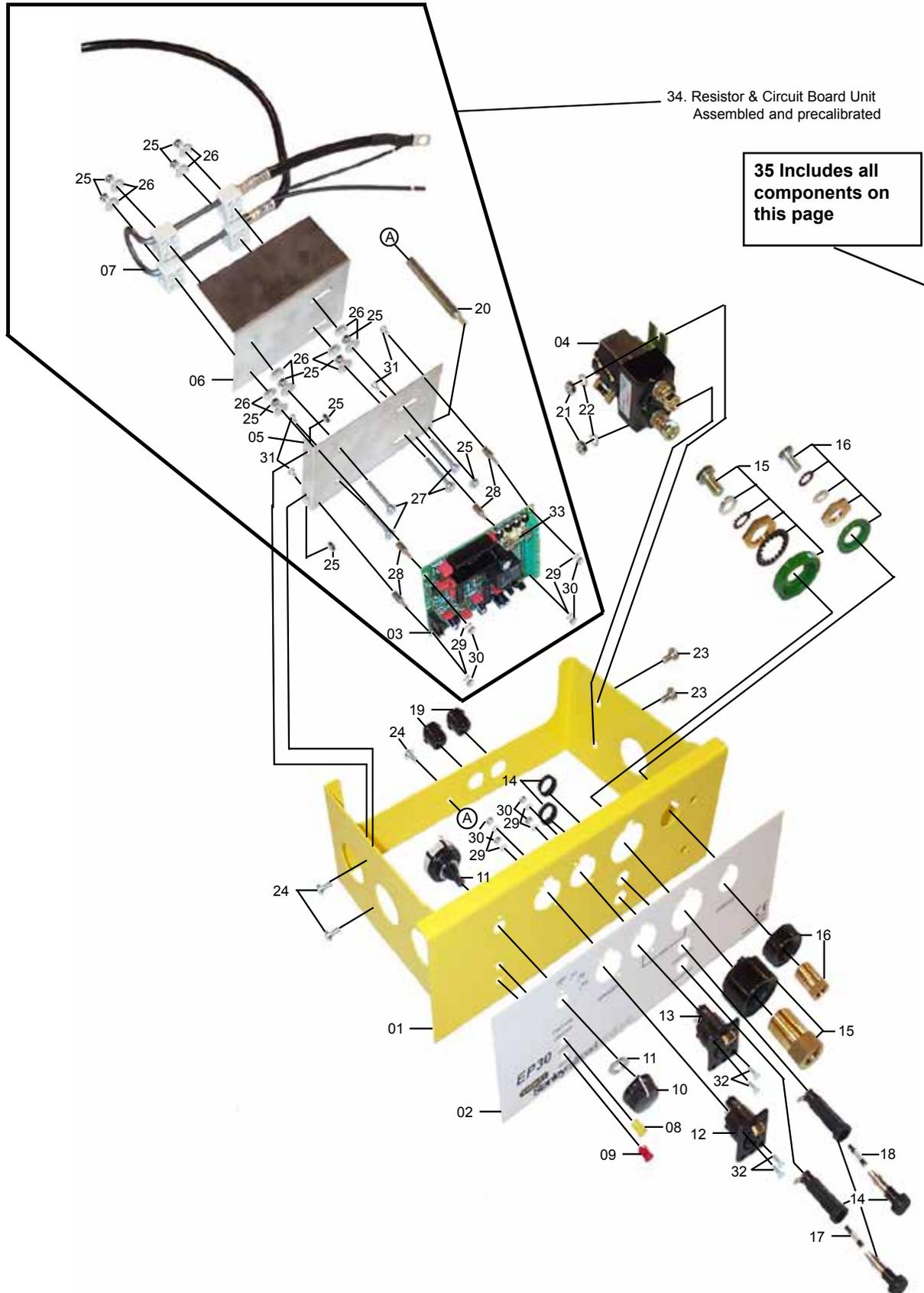
Item No.	Part No.	Qty	Description	
91	BG10100	1	Pin Brazing Gun	
92	BG10101	1	Angle Head Gun	
93	35823	1	Plug Male Grinder 4-Pin	
94	65831	1	Plug Male Controller Gun 3-Pin	
95	66696	1	Plug Male Power Supply Gun Cable	
96	66697	1	Plug Male Ground Cable	
97	56556	1	Charger/Generator Plug	

# ACCESSORIES

TOOLS			
Item No.	Part No.	Qty	Description
98	37946	1	Hole Punch Tool 9.5mm
99	35824	1	Hole Punch Tool 8.0mm
100	62394	1	Lift Height Tool BG10100 Pin Braze Gun

# EP30 PARTS ILLUSTRATION

## INTERNAL ELECTRONIC CONTROL BOX



# EP30 PARTS LIST

Item	Part No.	Qty	Description
01	66838	1	FRAME EP30
02	66846	1	LABEL EP30
03	66839	1	CIRCUIT BOARD
04	66018	1	RELAY
05	66840	1	CIRCUIT BOARD MOUNTING PLATE
06	66841	1	RESISTOR MOUNTING PLATE
07	66698	1	SHUNT RESISTOR ASSY W/CABLE
08	66843	1	YELLOW LED LENS
09	66844	1	RED LED LENS
10	66694	1	KNOB FOR ROTARY SWITCH
11	66695	2	ROTARY SWITCH
12	66691	1	GRINDER RECEPTACLE
13	65830	1	GUN CONTROL RECEPTACLE
14	66847	1	FUSE BRACKET 5x20
15	66692	1	GUN POWER SUPPLY RECEPTACLE
16	66693	1	GROUND RECEPTACLE
17	56558	1	FUSE FOR GRINDER 15A
18	56559	1	FUSE 1A
33	56557	1	GLASS FUSE FOR PCB
34	66845	1	RESISTOR & CIRCUIT BOARD UNIT (As shown on previous page outlined by black line).
35	66131	1	EP30 ELECTRONIC BOX Complete unit as shown on previous page.
36	35801	1	Battery Box



36 Battery Box Only (Lower Black Box shown above).







# **STANLEY®**

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