

STANLEY®

EP30 ELECTRONIC PIN BRAZING UNIT



EP30250



EP30200

SAFETY, OPERATION AND MAINTENANCE USER MANUAL



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New Britain, CT 06053
U.S.A.
69924 6-2014 Ver-7

DECLARATION OF CONFORMITY

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ÜBEREINSTIMMUNGS-ERKLÄRUNG
DECLARATION DE CONFORMITE CEE
DECLARACION DE CONFORMIDAD
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STANLEY.
Hydraulic Tools
CE

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

Weisbeck, Andy

Surname and First names/Familienname 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 Hydraulic Tools**
- 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, Stanley 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 Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 1-10-11

Signature/Unterschrift/Signature/Firma/Firma

Andy Weisbeck

Position/Position/Fonction/Cargo/Posizione Engineering Manager

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IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.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 Hydraulic Tools recommends that servicing of the unit, 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 authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual 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 Hydraulic Tools.

- 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 repair and replacement parts and materials specified in the Parts List section of this manual.

Use only recommended accessories also 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 from location to location.

CLEANING

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

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

Keep tool labels and stickers legible.

PREOPERATION 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 being charged. 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.

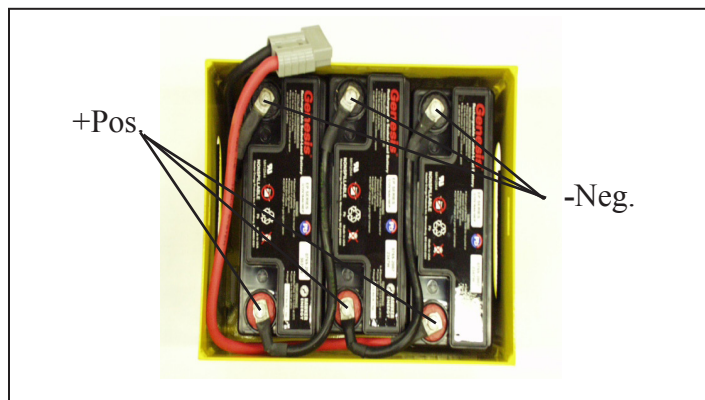


Figure 1. Battery cable and terminals

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

EP30200 OPERATION

5. Charging is ready 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

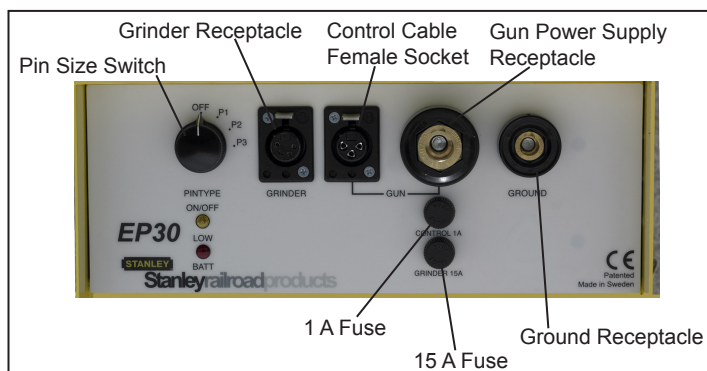


Figure 2. EP30 Connections

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 and use it as a guide to determine where brazing points on the rail will be required.

Before brazing, the rail must be cleaned of rust, corrosion, paint, pits, or other contamination at the points where the brazing is going to be done and on an area close to the brazing for placement of the grounding cable. Cleaning is accomplished with a grinder to ensure clean, bare metal.

NOTE:

Use only grinding wheels furnished by Stanley. Other wheels have shown to leave residues which cause faulty brazing.

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.

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 for placement of the grounding cable, 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" and 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:

EP30200 OPERATION

a. The ring holder is a "push fit" to the gun. To remove it from the gun, simply pull it away from the gun.

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.

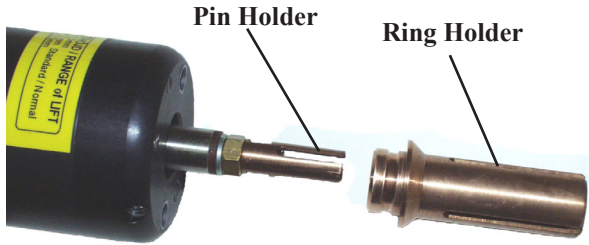


Figure 3. Pin and Ring Holder

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

IMPORTANT

Make sure, 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, and finally, pushing on 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 cable 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 |

SWITCH



Figure 3. Pin Type Control Switch

10. Turn the POWER switch to 1.

EP30200 OPERATION

NOTE:

The EP30 does not have a power switch.

11. 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.

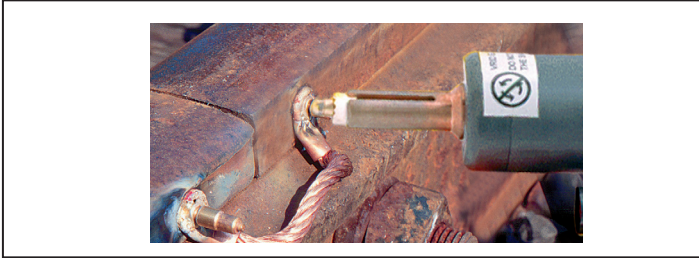


Figure 4. Gun position

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.

12. Hold the gun firmly with both hands and pull the trigger once. The electronics will finish the braze automatically.

13. 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.

14. After the braze has cooled, knock the shank off the brazing pin using a hammer.

15. 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.

EP30250 OPERATION

⚠ CAUTION

The S300 requires a welding machine capable to deliver 250-300 Amp, open circuit voltage of max. 80V.
(Not supplied by Stanley)

1. Check that all parts were received.

EP300 Unit Delivered with:
Gun S15, incl 2,7 m SAFE 91015
Ground device 2,7 m SAFE 8089
1 - Power cord
2 - Power cable 3 m

2. Connect

Connect power cords to mains and power cables to an welding machine.
(Welding machine not supplied by Stanley).
Make sure positive and negative is correct.

Set welding current on welding machine to 250 Amp.
(Max 280 Amp)
Open circuit voltage of max. 80V.

Connect brazing gun, power cable and control cable, to units gun outlets.
Connect ground magnet to ground outlet.



EP30250 OPERATION

3. Brazing instruction.

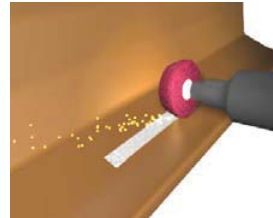
⚠ WARNING

Warning! Always use eye protectors when grinding and brazing!

Note, use only STANLEY's grinding wheel specially made for brazing, other type of wheels will leave a surface not suitable for brazings. Keep the grinding wheel clean and free from oil etc.

IMPORTANT

- Grind the brazing and grounding area until you have an even and clean surface

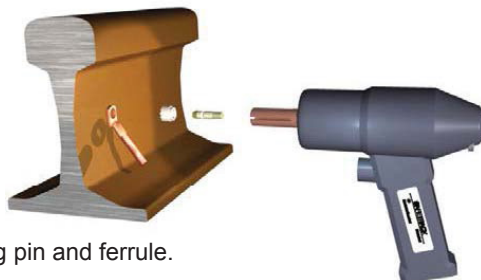


Move the grinder up and down until you have an even surface for both the pinbrazing and ground magnet.

- Attach the earth magnet on the same rail/work piece where the pinbrazing should be done. Try to attach the magnet within 0,5m from brazing area.

- Set pintype:

| Pin | Setting |
|------------|---------|
| 8 mm std | 1 |
| 8 mm Extra | 2 |
| 9,5 mm | 3 |



- Load the gun with brazing pin and ferrule.

EP30250 OPERATION

- Press carefully the gun with the cable shoe, the ferrule and the brazing pin to the work piece.

- Note that you always must use a railbond together with the brazing pin and the ferrule to do a pin brazing, except when brazing a special threaded brazing pin then only a ferrule and M8, M10 or M12 brazing pin is to be used.

- Make sure to braze in the top of the hole when brazing to a vertical surface.



Brazing.

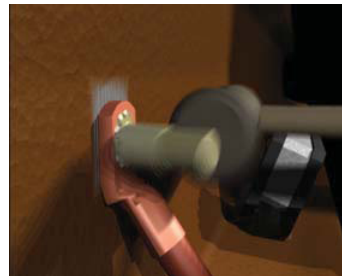
- Hold the gun firmly with both hands as shown and pull the trigger just once. The electronic will by it self finish the brazing process.

- Hold the gun in place for 3-4 sec after the brazing while the braze freezes.

- Remove the gun straight backwards without pulling the trigger!

Knock off the shank of the brazing pin.

The brazing is completed.



ACCESSORIES EP300

SEE PAGE 17

- Pin holder 8-9,5 mm (A)
- Pin holder M8 (B)
- Pin holder M10 (C)
- Pin holder M12 (D)
- Ring holder 8-9,5 mm
- Ring holder M8/M10/M12

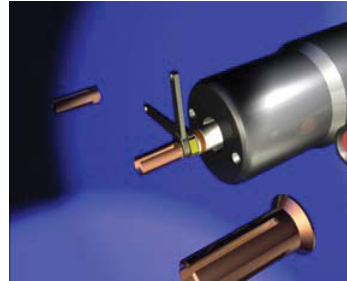
EP30250 MAINTENANCE

PIN HOLDERS

Squeeze the fingers on the pin holder together each time you feel that the brazing pin goes in too easy when mounting them into the pin holder. This is important since all the current goes thru the pin holder to the brazing pin. If the fingers are too loose the pin holder will be damaged and must be replaced.

CHANGE PIN HOLDER

- Separate the ring holder from the gun with your hands.
- Hold the nut closest to the pin holder with a 10mm key.



- Screw the pin holder off.
- When replacing the new pinholder, hold the nut, closest to the pinholder even now.

⚠ WARNING

WARNING! Never rotate the shaft! The internal cables may be damaged!

EQUIPMENT

- Check the cables from time to time, to make sure they are not damaged.
- Check the contact surface on the ground magnet from time to time and use a file to even or clean the surface.

BRAZING PINS AND FERRULES

- Keep them dry.

RAILBONDS AND CABLE LUGS

- Keep them free from oxidation.
- Keep them free from contamination like: Grease, oil, dirt, paint, glue etc.
- Make sure that they are not damaged.

TROUBLESHOOTING

EP30250

In order to perform this trouble shooting you will need: voltmeter, 8 mm and 10 mm spanners, hexagon spanner 3 mm, 4mm and 5 mm, control instrument to check lift height for S15 pistol.

| | |
|---------------------|---|
| Working material | Are the bonds in good condition - no breaks, clean ? Are the pins of the correct type ? |
| Grinding wheel | Is the grinding wheel the approved type ? The Tyrolit is a silicon free wheel. You can use a steel carbide wheel. No other wheels are allowed. |
| Brazing gun S 15 | Check cables, plugs. Does axle move easily with pin and ring installed ? Are the pin and ring holders bent ? Unscrew the front of the gun and open carefully. Smell if there is burning, otherwise clean and replace. Check the lifting height with the control instrument. |
| Ground magnet | Is the magnet broken (between the plates) ? Is the plug well screwed in ? Make sure the contact surfaces are even. |
| Electronic units | Check cables and connections for play. Are the contact on the cables damaged ? Are the knobs loose ? Are the fuses whole ? Open the panel, check for a burnt smell, (the breaker can have burnt out) Check that cables are attached correctly. Make a full optical control. |

EP30200

| PROBLEM | CAUSE | SOLUTION |
|---|--|--|
| Brazing 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. |
| Braze is faulty. | Magnetic ground faulty. | Check that surface magnetic ground is applied to is ground 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. |
| | 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. | Check that surface magnetic ground is applied to is ground 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. If not, remove the ring holder, clean all the parts and squeeze the fingers of the pin holder together.
- Check the cables on the gun from time to time for damage. Replace as required.
- Check that the lift level is correct with 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 |

EP30250

..... - This unit does not have on-board batteries but is powered by an external welding machine (not included) capable of 250-300 amps at 80 volts. Otherwise this has the same functionality and uses the same accessories as our other EP30 units.

ACCESSORIES

| | |
|------------|-------------------------------|
| 35812..... | Carrying Case |
| 58867..... | Transport Wagon, EPX 31, EP30 |

| | |
|--|---|
| EP30010 (Includes Items Below)..... | Pin Brazing Kit 110VAC |
| 35866..... | Battery Charger |
| 40409..... | Battery, Genesis 16amp 12V (3) |
| 72776..... | Nonspillable Battery Label |
| 73358..... | Carbide Burr SF-5 |
| EP30200..... | Medium Duty Elec. Pin Brazing Unit |
| BG10100..... | Pin Brazing Gun |
| HGE12151..... | Grinder, Elec. Cordless Kit (Includes: Grinder, Charger 120V & Battery Lithium-Ion 18V) |

| | |
|--|---|
| EP30020 (Includes Items Below)..... | Pin Brazing Kit 110V/12VDC |
| 73358..... | Carbide Burr (1/4 in. Shank) |
| 35812..... | Carrying Case |
| 35818..... | Extension Cable for S4 Pistol |
| 35819..... | Extension Cable for Earth 5m |
| 35866..... | Battery Charger |
| 40409..... | Battery, Genesis 16amp 12V (3) |
| 47320..... | Inverter 12VDC to 110VAC |
| 72776..... | Nonspillable Battery Label |
| EP30200..... | Medium Duty Elec. Pin Brazing Unit |
| BG10100..... | Pin Brazing Gun |
| HGE12151..... | Grinder, Elec. Cordless Kit (Includes: Grinder, Charger 120V & Battery Lithium-Ion 18V) |

ACCESSORIES

BRAZING PINS & CERAMIC RINGS

STANDARD BRAZING PINS

| Part No. | Description |
|----------|----------------------|
| 35835 | 8 mm |
| 35836 | 8 mm w/ extra silver |
| 35837 | 9.5 mm |
| 35840 | M8/12 Threaded |
| 35841 | M10 Threaded |
| 35839 | M12 Threaded |

NOTICE

Brazing Pins are for use on Rail Only

Ceramic Ring Req'd

| |
|-------|
| 35832 |
| 35832 |
| 35833 |
| 35834 |
| 35834 |
| 35834 |



CERAMIC RINGS

| Part No. | Description |
|----------|-------------|
| 35832 | 8 mm |
| 35833 | 9.5 mm |
| 35834 | 12 mm |



PIN & RING HOLDERS

| Part No. | Description |
|----------|---|
| 35826 | Pin Holder for Pinbrazing, 8-9,5 mm brazing pins. |
| 35827 | Pin Holder for Pinbrazing, M8 Threaded pins. |
| 35828 | Pin Holder for Pinbrazing, M10 Threaded pins. |
| 35829 | Pin Holder for Pinbrazing, M12 Threaded pins. |
| 35825 | Extended pin and ring holder set for 8-9,5 mm brazing pins. |
| 37945 | Ring Holder, 8 mm pin & ringholder Set |
| 35830 | Ring Holder, 8-9,5 mm ceramic rings. |
| 35831 | Ring Holder, M8/M10/M12 mm ceramic rings. |



35827 Pictured



35831 Pictured

CABLE LUGS (for Pin Brazing to rail)

| Part No. | Description | Brazing Pin Req'd |
|----------|--|-------------------|
| 47523 | Braze Lug for 25 mm Cable | 35836 |
| 47524 | Braze Lug for 35 mm Cable | 35836 |
| 47525 | Braze Lug for 50 mm Cable | 35836 |
| 39241 | Cable Shoe #6 | 2 x 35836 |
| 35847 | Cable Shoe 10 mm | 35835 |
| 35855 | Cable Shoe D=8 mm | 35836 |
| 47526 | Cable Lug for 16 mm Cable | 35835 |
| 47527 | Cable Lug for 25 mm Cable | 35836 |
| 47528 | Cable Lug for 35 mm Cable | 35836 |
| 47529 | Cable Lug for 50 mm Cable | 35836 |
| 47522 | Cable Lug 5/8" ground rod to #2 cable | 2 x 35836 |
| 47521 | Braze Sleeve #6 to #6 | 35836 |
| 41625 | Multi-Wire Track Connection | 2 x 35836 |
| 35865 | Clip for 18x5mm | 35835 |
| 67122 | Brazing Clip (Secures Wire to Rail) | 35835 |



47523 Pictured



39241 Pictured



47527 Pictured



47521 Pictured




41625 Pictured



67122 Pictured

ACCESSORIES

BONDING CABLE WITH LUGS (for Pin Brazing)

| Part No. | Description | Brazing Pin Reqd |
|----------|---|------------------|
| 35845 | 1 AWG / 50 mm ² , 185 mm long, copper | 35837 |
| 35844 | 4 AWG / 25 mm ² , 145 mm long, copper | 35835 |
| 39243 | 3/16 Bond, 300 mm long | 35835 |
| 39244 | 25 mm ² , 200 mm long | 35835 |
| 37944 | 50 mm ² , 185 mm long | 35836 |
| |  35844 Pictured | |
| 39705 | Bond Wire 16" OAL x 25 mm | 35835 |
| 39706 | Bond Wire 24" OAL x 25 mm | 35835 |
| 39707 | Bond Wire 36" OAL x 25 mm | 35835 |
| |  39242 Pictured | |
| 39242 | 3/16 Bond Crimpable Sleeve | 35835 |
| 40366 | Signal Extension Bond 3/16" (170 mm) | 35835 |
| 40091 | Signal Extension Bond 150 mm L=430 | 35837 |
| 40090 | Signal Extension Bond 2 x 35 mm - 2 x L=170 | 35836 |
| |  40366 Pictured | |
| 41635 | 3/16 Signal Bond Wire W/Eye & Crimpable sleeve 24 inch long | 35835 |
| 58563 | 3/16 x 7"/180 mm Long with Electrode & Ferrule | |
| 41815 | 3/16 Bond 12' Long Eyelet one end, AL block for Tig Weld Other End | 35835 |
| |  41635 Pictured | |
| 43686 | Extension Bond CU, 25 mm ² , x 330 mm Long | 35835 |
| 43519 | 3/16 Extension Bond 12" | 35835 |
| 41225 | Bond Wire 34" Long C/L-C/L W/9 mm eyelets on both ends | 35835 |
| 41226 | Bond Wire 46" Long C/L-C/L W/9 mm eyelets on both ends. | 35835 |
| 66579 | 25mm ² x 500mm Extension Bond | 35835 |
| 66580 | 25mm ² x 900mm Extension Bond | 35835 |
| 66269 | Signal Bond 3/16" x 6' Braze Lug Both Ends | 35835 |
| |  67634 Pictured | |
| 67634 | Railbond 300 mcm L=330 mm Uninsulated (4) 9.5 Pins Required | 35837 |
| 73652 | Railbond 300 mcm L=430 mm Use with 4X Pins | |
| 73016 | Railbond 300 MCM | |
| 72988 | Railbond 3/16, 4 in. Reversed (50 pack) | |
| 72989 | Railbond 3/16, 6 in. Reversed (50 pack) | |
| 73016 | 300MCM Rail Bond | |
| 67635 | Extension Bond 300 mcm x 200 mm crimp sleeve (2) 9.5 Pins Required | 35837 |
| |  67635 Pictured | |
| 47530 | Bungalow Grounding Bond 3/16" | 35836 |

"T" CONNECTORS (for Pin Brazing)

TYPE C

| Part No. | Description |
|----------|---|
| 35857 | Copper Plate with M8 x 18 Brass Threaded Stud |



Brazing Pin Reqd
35835 x 2

35857 Pictured

TYPE D

| Part No. | Description |
|----------|--|
| 35860 | Copper Plate with M16 x 26 Stainless Steel Threaded Stud |
| 35861 | Copper Plate with M16 x 32 Stainless Steel Threaded Stud |



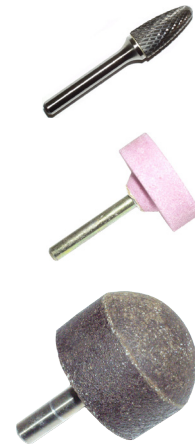
Brazing Pin Reqd
35837 x 4
35837 x 4

35860 Pictured

ACCESSORIES

Grinder Abrasives

| Part No. | Description |
|----------|--|
| 73358 | Carbide Burr (1/4 in. Shank) |
| 35810 | Grinding Wheel "Note, Not for SAFEBONDING!" |
| 73052 | Bull Nose Stone 2 inch (1/4 inch Shank) |



Fuses, Chargers, & Batteries

| Part No. | Description |
|----------|--|
| 56557 | Fuse, PCB EP30/60 |
| 56558 | Fuse, Grinder Outlet EP30 |
| 56559 | Fuse, Control Cable EP30 |
| 56560 | Auto Fuse, 5A EP60 |
| 56561 | Auto Fuse, 15A EP60 |
| 56562 | Auto Fuse, 30A EP60 |
| 35866 | Charger 36 VDC 7 AMP EP30/60 W/ Special DC plug. |
| 47320 | Inverter 12V DC-110VAC |
| 41769 | Battery Charger for EP60 20A 36V DC PLG Continuous Use |
| 40409 | Battery 16 AH 12 Volt EP30 |
| 39434 | Battery 30 AH EP60 |



56557 Pictured










56561 Pictured





40409 Pictured

ACCESSORIES

CABLES

| Part No. | Description | |
|----------|--|---|
| 35809 | Ground Cable _____ |  |
| 35806 | Carrying Harness _____ |  |
| 35820 | Extension Cable for Grinding _____ |  |
| 35819 | Extension Cable for Ground _____ |  |
| 41768 | Adapter, Charging _____ |  |
| 62214 | Pigtail Charge Adapter _____ |  |
| 66266 | Ground Clamp Assembly (Vise Grip Style) _____ |  |
| 72999 | Econect Ground Magnet (Magnetic ground for econect kit) (Not Pictured) | |
| 35818 | Extension Cable for S4 Brazing Gun (Not Pictured) | |
| 35816 | Standard Cable for S4 Pistol 2.7m/8.8ft (Not Pictured) | |
| 35817 | Long Cable for S4, 4.5m/14.75ft (Not Pictured) | |

GRINDER

| Part No. | Qty | Description | |
|-----------|-----|---|---|
| HGE12141 | | Grinder Only (NO Battaery or Charger) |  |
| HGE12151 | | Includes: Grinder, Battery and Charger. | |
| HGE12161 | | Includes: Grinder, Battery, Charger and Bull Nose Stone | |
| HGE12161B | | Includes: Grinder, Battery, Charger and Bull Nose Stone & BNSF Stone. | |
| 73399 | | Battery 18V and Charger 120V |  |
| 73400 | | Battery Lithium 18V LI-ION | |

ACCESSORIES

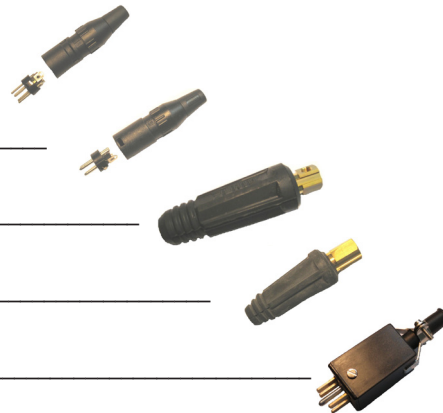
GUNS

| Part No. | Description |
|----------|-----------------------|
| BG10100 | Pin Brazing Gun _____ |
| BG10101 | Angle Head Gun _____ |



Plugs

| Part No. | Description |
|----------|--|
| 35823 | Plug Male Grinder 4-Pin _____ |
| 65831 | Plug Male Controller Gun 3-Pin _____ |
| 66696 | Plug Male Power Supply Gun Cable _____ |
| 66697 | Plug Male Ground Cable _____ |
| 56556 | Carger/Generator Plug _____ |

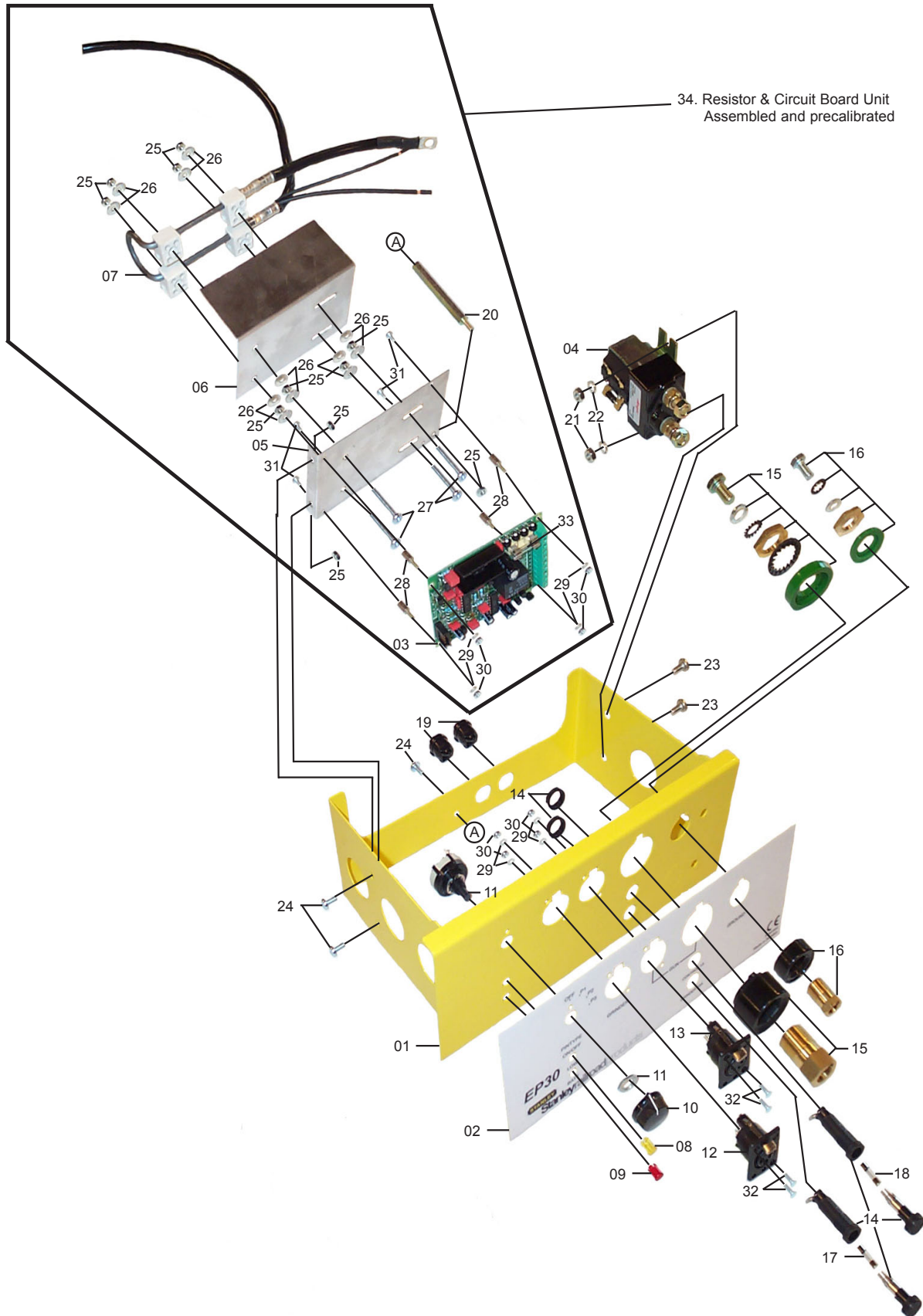


Tools

| Part No. | Description |
|----------|--|
| 37946 | Hole Punch Tool 9.5mm |
| 35824 | Hole Punch Tool 8.0mm |
| 62394 | 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 | 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 | 1 | ROTARY SWITCH |
| 12 | 66691 | 1 | GRINDER RECEPTACLE |
| 13 | 65830 | 1 | GUN CONTROL RECEPTACLE |
| 14 | 66847 | 2 | 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 |
| 19 | | 2 | STRAIN RELIEF BUSHINGS |
| 20 | | 1 | SPACER |
| 21 | | 2 | NUT M6 |
| 22 | | 2 | SHAKEPROOF WASHER M6 |
| 23 | | 2 | SCREW M6x10 |
| 24 | | 3 | SCREW M4x8 |
| 25 | | 10 | NUT M4 |
| 26 | | 12 | WASHER M4 |
| 27 | | 4 | SCREW M4x30 |
| 28 | | 4 | SPACER |
| 29 | | 8 | WASHER M3 |
| 30 | | 8 | NUT M3 |
| 31 | | 4 | SCREW M3x6 |
| 32 | | 4 | SCREW M3x10 |
| 33 | 56557 | 1 | GLASS FUSE FOR PCB |
| 34 | 66845 | 1 | RESISTOR & CIRCUIT BOARD UNIT (As shown on previous page outlined by black line). |
| | 66131 | 1 | EP30 ELECTRONIC BOX Complete unit as shown on previous page. |
| | 35801 | 1 | Battery Box |



STANLEY®

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