

EPX10 PIN BRAZING UNIT



SAFETY, OPERATION AND MAINTENANCE USER MANUAL



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DECLARATION OF CONFORMITY

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

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

Weisbeck, Andy

Surname and First names/Familiennname 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:

1.	Category:
	0,
	Kategorie:
	Catégorie:
	Categoria:
	Categoria:

- 2. Make/Marke/Marque/Marca/Marca
- 3. Type/Typ/Type/Tipo/Tipo:
- Serial number of equipment: Seriennummer des Geräts: Numéro de série de l'équipement: Numero de serie del equipo: Matricola dell'attrezzatura:

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

Digital Pin Braze / ECONECT Unit (Product Group-Railroad)

Stanley Hydraulic Tools

EPX10 ECONECT (Digital Pin Braze unit)

Directive/Standards	No.	Approved body
Richtlinie/Standards	Nr	Prüfung durch
Directives/Normes	Numéro	Organisme agréé
Directriz/Los Normas	No	Aprobado
Direttiva/Norme	n.	Collaudato
IEC EN EMC : EN EN IEC EN Low Voltage Directive EMC Directive	950: 1991 60950: 1988, 60204-1 50082-2: 1995 55022: 1988 Class B/CISPR 22: 1985 class B 801-2: 1991 55101-2: 1990, 8kV CD, 15kVAD 73/23/EEC 89/336/EEC, 89/392/EEG, 91/368/EEG	Safetrack Baavhammar AB L. Mölleberga 245 93 Staffanstorp Sweden

- Special Provisions: None Spezielle Bestimmungen: Dispositions particulières: Provisiones especiales: Disposizioni speciali:
- 6. 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 H	lydraulic Tools, Milwaukie, Oregon USA	Date/Datum/le/Fecha/Data	2-12-2013
Signature/Unterschrift/Signature/Firma/Firma	Andy Wish		
Position/Position/Fonction/Cargo/Posizione	Director of Product Development		

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Hydraulic Tools

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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 ECONECT unit, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

A 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 SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, <u>will</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This signal word indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>property damage</u>.

This signal word indicates a situation which, if not avoided, <u>will</u> result in <u>damage</u> to the equipment.

This signal word indicates a situation which, if not avoided, <u>may</u> result in <u>damage to the equipment</u>.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

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.



• 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. • 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.

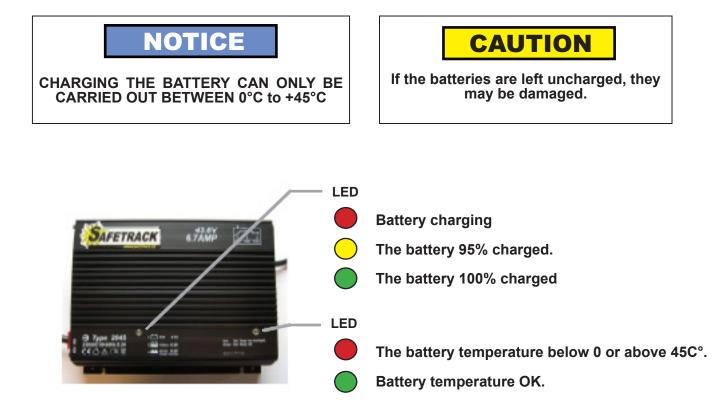
• Always replace parts with replacement parts recommended by Stanley Hydraulic Tools.

• Charging the battery can only be carried out between 0° C to +45°C (32°F to 113°F).



CHARGING THE BATTERY

Connect the charger to the "grinder / charging" outlet on the unit then plug in the power cord. The battery is fully charged after about 4 hours (if completely discharged).



PREOPERATION

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 this manual.

Use only recommended accessories also specified in the this manual.

Do not use the Electronic Pin Brazer 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 ECONECT Pin Brazing unit 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



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.

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. 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.

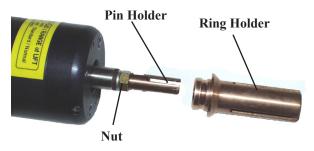


Figure 3. Pin and Ring Holder

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



Warning! Never rotate the shaft when mounting the pin holder, it can damage the gun.

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.

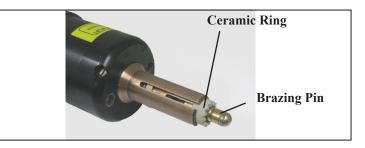


Figure 4. Loading pin and ring





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. If using a magnet ground try to attach the magnet within 0.5m/20 in. of brazing area. Ground should be on same work piece where pin brazing is taking place.

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 Econect unit marked "GROUND" 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.

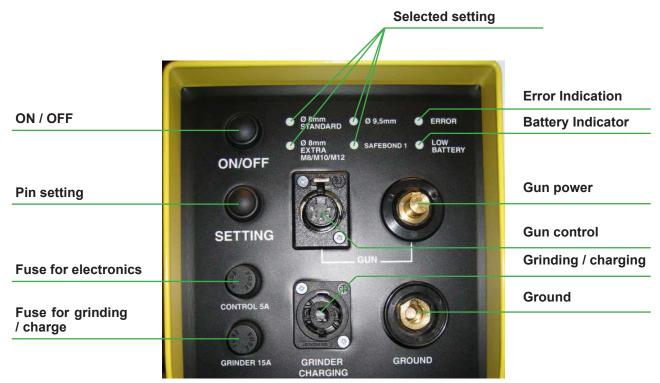
CHANGING PIN AND RING HOLDER

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:

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

OPERATION

- · Connect the brazing gun, power and trigger cable to the unit.
- · Connect the ground device to the unit, if not already connected.
- Press on/off button and select the right pin type by pressing the "setting" button. The unit will remember what setting was used last.
- Load the gun with brazing pin and ferrule, if not already loaded.



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

PIN BRAZE

- Hold the gun firmly with both hands against the work piece and pull the trigger just once.
- The electronic unit will by itself finish the brazing process.
- Hold the gun in place for 3-4 seconds after the brazing is complete to allow for cooling.
- Remove the gun straight backwards without pulling the trigger!
- Knock off the shank of the brazing pin with a hammer.
- The brazing is completed.

NOTE:

If the brazing is aborted to early "ERROR" will turn on. The brazing should be redone for a good result. The error lamp will turn off after 8 seconds Use a new ceramic ring for each new pin braze.

NOTICE

The battery indicator "LOW BATT" flashes when the batteries are almost discharged, when the "LOW BATT" is constantly lit the batteries are discharged and you can't do any more pin brazing. Charge the battery.

SPECIFICATIONS

SPECIFICATIONS

Voltage	
Number of Brazes (Per Charge)	
Weight (incl. Battery)	9.8 kg / 21.6 lb
Width	5.9 inch / 150 mm
Height	11.0 inch / 280 mm
Length	12.5 inch / 320 mm
Length Temperature Range	4° F - 130° F / -20° C - 55° C

EPX10 Econect Battery Kit (For Units S/N 1215091 and Up)	
EPX10 Econect Battery Kit (For Units S/N 1215090 and Below)	

MAINTENANCE

EQUIPMENT

- Always make sure the batteries are fully charged.
- Check the cables from time to time for damage.
- Check the contact surface on the ground magnet from time to time to ensure a good connection.
- Make sure that the brazing pin with the ferule passes easily in the gun, centered.

BRAZING PINS AND FERRULES

-Keep them dry.

RAILBONDS AND CABLE LUGS

- -Keep them free from oxidation.
- -Keep them free from contamination like: Grease, oil.
- -Make sure they are not damaged.

SETTING RIGHT LIFT HEIGHT

The S15 brazing gun self adjust to the same lift height every time. See separate instructions in the maintenance section if adjustment for the gun is necessary.

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.

Replace the fuses:

Push and unscrew counter-clockwise to remove fuse holder. Replace fuse and re-install the fuse holder.



NOTE! Control: 5A fuse. Grinder: 15A fuse.

Special functions:



1. BATTERY INDICATOR:

Press and hold the "SETTING" button, while you push the "ON / OFF" button. "LOW BATTERY" LED will light. Release the buttons. The LEDs on the front panel show the charge status of battery.

2. LIFTING HEIGHT CONTROL:

First follow step 1 above. Press "Settings" and the lights start flashing, at this point, you can check the lifting height of the gun.

3. Pressing "Settings" one more time and you go back to battery indicator.



Periodic maintenance of S15 automatic gun

1. Check that all cables and lugs are not damaged and properly tighten in gun and unit.

2. Check that the right pinholder is installed in the gun.

See selection of pinholders in the accessories section of this manual.

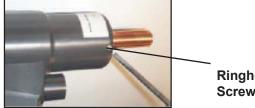


Make sure the pinholder is tight on the gun, otherwise a spark can destroy the axle. Use a wrench to hold the nut from turning and tighten the pinholder as shown in the picture. **Do not** allow the main shaft to turn, only turn the pinholder to tighten. Use one 8mm and one 10mm wrench for 8-9,5 mm and M8 pinholders. Two 10mm wrenches for M10 and M12 pinholders.

Make sure, never twist the main shaft when mounting the pinholder!

When loading the brazing pin, it should **not** go in loose into the pinholder, if it does push the pinholder together with your fingers to gain a tighter fit. Otherwise you can have a contact fault or a spark can arise if their is not a tight contact.

3. Check that the ringholder is the right type. You can remove it by hand and its ease of removing can be adjusted with the small screw on the side of the gun (see photo).



Ringholder Adjustment Screw

4. Load the gun with the appropriate pin & ferrule. Check that the axle moves easily with the pin and ferrule installed by pushing back and forward on the pin with your finger (see photo).

If the pin does not move easily, change either pinholder or ringholder. If it still does not move easily the axle is damaged and must be sent for repair.



Lift level tool

P/N-62394

IMPORTANT! The normal liftheight is 2mm / 0.078 in. This is very important for the arc and energy amount. Too high liftheight increase the risk of a "coldbrazing", too low liftheight reduce the time and increase misfires.



2. Press and hold "SETTING" and press ="ON/OFF". When "LOW BATTERY" is lit, release buttons. Press "SETTING" and the leds will start to blink. In this mode the unit is able to check the lift height.

Important! Press the tool completely against the gun then pull the trigger. Otherwise the gun may be damaged!

Important! Hold the gun so the tool is horizontal.

3. The lift level is calibrated when the inner rod, made of brass, on the tool is in same level as the outer plastic sleeve. Tolerance ± 0.2 mm / 0.007 in. If the gun is not calibrated see seperate instruction for adjusting of the gun.

Advanced maintenance work Adjusting the liftlevel.

1. Resetting correct liftheight of a S15 gun. Only reset a maladjusted gun.

Install the lift level tool (shown below) onto the gun.

2. Connect the cables to the pinbrazing unit and switch on the power.

3. Take off the plastic plug with a pin in the upper small hole in the front of the gun (see photo).

IMPORTANT, never adjust in the hole where the big plug is!

4. When liftheight is too low. Use the 3mm hexagon allen wrench and adjust the screw in the small hole counter-clockwise about 1/4 of a turn then check with the lift level tool.

5. When liftheight is too high. Use the 3mm hexagon allen wrench and adjust the screw in the small hole clockwise about 1/4 of a turn then check with the lift level tool.

If height is ok, replace the plug in the hole.

If height is not ok, send for repair.

P/N-62394



Remove plastic plug with a pin or sharp object.





TROUBLESHOOTING

Error indications on the unit:

"ERROR" led is lit.

- The temperature of the battery is over +55 °C/131°F **Action:** Wait until the light goes out, when the temperature drops you will be able to braze again.

"ERROR" led flashes.

- The temperature of the battery is below +10 °C/50°F **Action:** Leave the unit on, the built-in heating element will heat up the battery. Wait until light goes out and the temperature has risen, and you will be able to braze again.

"ERROR" and "LOW BATTERY" led flashes.
The temperature of the battery is below +10 °C/50°F and the battery is almost discharged.
Action: Charge the batteries.

"ERROR" Led is lit after a braze.
The pin brazing was not complete.
Action: The braze should be remade to achieve good results. The Led turns off after 8 seconds.

"ERROR" Led glows.Failure of a sensor in the unit.Action: The unit should be sent for repair.

"LOW BATTERY" Led flashes.

- Battery is almost discharged

"LOW BATTERY" led is lit. - Battery is discharged. Charge the batteries.

"NOTHING HAPPENS WHEN YOU PRESS THE BUTTONS"

- The electronics may have gotten stuck. **Action:** Remove control 5A fuse for a short time, put it back again.

"THE BRAZING NEVER STOPS"

- The electronics may have gotten stuck. **Action:** Remove the gun and the ground magnet from the rails and disconnect them from the unit as soon as possible. Remove the control 5A fuse, check that nothing has been damaged before the fuse is put back.



STANDARD BRAZING PINS

Description

Part	No.	

35835

35836

35837

35840

35841

35839

8 mm 8 mm w/ extra silver 9.5 mm M8/12 Threaded M10 Threaded M12 Threaded

CERAMIC RINGS

• = • • • • • • •	
Part No.	Description
35832	8 mm
35833	9.5 mm
35834	12 mm

NOTICE Brazing Pins are for use on Rail Only





PIN & RING HOLDERS

Part No.	Description	
35826 35827 35828	Pin Holder for Pinbrazing, Mto Threaded pins.	827 Pictured
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, 12 mm ceramic rings.	35831 Pictured

CABLE LUGS (for Pin Brazing to rail)

Part No.	Description		Brazing Pin Reqd
47523	Braze Lug for 25 mm Cable		35836
47524	Braze Lug for 35 mm Cable	47523 Pictured	35836
47525	Braze Lug for 50 mm Cable		35836
		39241 Pictured	
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	47527 Pictured	35835
47527	Cable Lug for 25 mm Cable	4752711etured	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	2 cable 47521 Pictured	2 x 35836
47521	Braze Sleeve #6 to #6	41625 Pictured	35836
41625	Multi-Wire Track Connection	10	2 x 35836
35865	Clip for 18x5mm		35835
67122	Brazing Clip (Secures Wire to Rail)	67122 Pictured	35835

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 mm², 145 mm long, copper	35835	
39243	3/16 Bond, 300 mm long 35844 P	lictured 35835	
39244	25 mm², 200 mm long	35835	
37944	50 mm², 185 mm long	35836	
57944		33830	
20705	Bond Wire 16" OAL x 25 mm	25925	
39705		35835	
39706	Bond Wire 24" OAL x 25 mm 39242 Pictured	35835	
39707	Bond Wire 36" OAL x 25 mm	35835	
39242	3/16 Bond Crimpable Sleev	35835	
40000	Circul Extension Dand 2/40% (170 mm)	25025	
40366	Signal Extension Bond 3/16" (170 mm)	66 Pictured 35835	
40091	Signal Extension Bond 150 mm L=430	35837	
40090	Signal Extension Bond 2 x 35 mm - 2 x L=170	35836	
	â	A second second	
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 4163	35 Pictured	
41815	3/16 Bond 12' Long Eyelet one end, AL block for Tig Weld Other End	35835	
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	35835	
	both ends		
41226	Bond Wire 46" Long C/L-C/L W/9 mm eyelets on both ends.	35835	
66579	25mm2 x 500mm Extension Bond	35835	
66580	25mm2 x 900mm Extension Bond	35835	
66269	Signal Bond 3/16" x 6' Braze Lug Both Ends	35835	
67634	67634 P Railbond 300 mcm L=330 mm Uninsulated	35837	
70040	(4) 9.5 Pins Required		
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	35837	
07035		55857	
	(2) 9.5 Pins Required	67635 Pictured	
		07055 Tietureu	
47530	Bungalow Grounding Bond 3/16"	35836	
-	"T" CONNECTORS (for Pin Brazing)		
TYPE C			
Part No.	Description	Brazing Pin Reqd	
35857	Copper Plate with M8 x 18 Brass Threaded Stud	35835 x 2	
	· · · · · · · · · · · · · · · · · · ·		
TYPE D	35857 P.	ictured	
Devit M	Description		
Part No.	Description	Brazing Pin Reqd	
35860	Copper Plate with M16 x 26 Staniless Steel Threaded Stud	35837 x 4	
35861	Copper Plate with M16 x 32 Stainless Steel Threaded Stud	35837 x 4	
		5860 Diaturad	
	3.	5860 Pictured	

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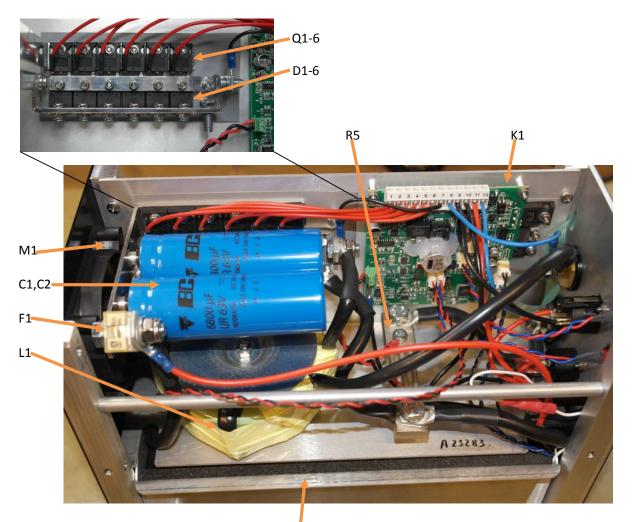
Grinder Abrasives		
Part No.	Description	
73052	Bull Nose Stone 2 in. Dia, (1/4 in. Shank)	
66976	Bull Nose Stone BNSF 2 in. Dia, (1/4 in. Shank)	
73358	Carbide Burr SF 5 (1/4 in. Shank)	
GRINDER Part No. Qty	Description	
HGE12141	Cordless Grinder - Includes: (Grinder Only) NO Battery or Charger	
HGE12151	Cordless Grinder Kit (Includes: Grinder, Battery and Charger)	
HGE12161	Cordless Grinder Kit (Includes: Grinder, Battery, Charger and Bull Nose Stone)	
HGE12161B	Cordless Grinder Kit (Includes: Grinder, Battery, Charger, Bull Nose Stone and BNSF Stone)	
73399	Battery 18V and Charger 120V	
73400	Battery 18V	

Part No.	Description	
	Control Fuse, 5A Grinder Fuse, 15A	and the
72972	Charger 36 V / 110 V ECONECT	Prove and Control of the second seco
73077	Econect Battery Kit	



CABLES		
Part No.	Description	
72999	ECONECT Ground Magnet	
72973	Carrying Strap	
66266	Ground Clamp Assembly (Vise Grip Style)	
72974	Carrying Case	
EPX10200	Econect Unit	
EPX10340	SafeBond Kit Econect (Includes: BG20600 Brazing Gun Econect Safebond, EPX10200 Econect Unit, HGE12151 Grinder Elec Cordless Kit, 72972 Charger 36V/110V Econect, 72973 Carrying Strap, and 72974 Carrying Case, 73358 Carbide Burr).	
EPX10040	Econect Kit - (Includes: BG10600 S-15 Automatic Brazing Gun, EPX10200 Econect Unit, HGE12151 Grinder Elec Cordless Kit, 72972 Charger 36V/110V Econect, 72973 Carrying Strap, and 72974 Carrying Case, 73358 Carbide Burr)	
GUNS Part No.	Description	
BG10600	S-15 Automatic Brazing Gun	
73078	Econect S-15 Gun Cable	
BG20600	Brazing Gun Econect Safebond	

EPX10 PARTS ILLUSTRATION



BT1 AND R4+F4+R3



EPX10 PARTS LIST

Qty	References	Description	Part number
1	К1	Econect circuit board	74590
1	BT1	Battery Kit	73720 FOR UNITS SERIAL # 1215091 & HIGHER ONLY
1	R4+ F4+R3	Heat pad complete.	74592
1	R5	Shunt 150A	74593
6	Q1-Q6	Mosfet	74594
6	D1-D6	Diode	74595
1	L1	Triode	74596
2	C1,C2	Capacitor	74597
1	M1	Fan	74598
1		Front panel	74599
1	J3	Wall socket 4-pin	74611
1	J4	Wall socket 5-pin	74612
1	J2	Wall socket for ground, female	74613
1	J1	Wall socket for gun, male	74614
2	S1,S2	Pushbutton	74640
1	F1	Fuse 300A 58V	74641
1	F2	Fuse 15AF 5x20mm	74642
1	F3	Fuse 5AT 5x20mm	74643
2	F2-F3	Fuse holder for 5x20 fuses	74644

NOTE: Reference BT1 Battery Kit shown above is for units with serial number 1215091 and higher, **Units** with serial number 1215090 and below must be returned to the factory for battery replacement.

Econect battery kit P/N-73720 for serial number 1215091 and Higher only.

Including:

Econect battery.

2 x 13mm spanner.

3mm hexagon key.

Side cutters.

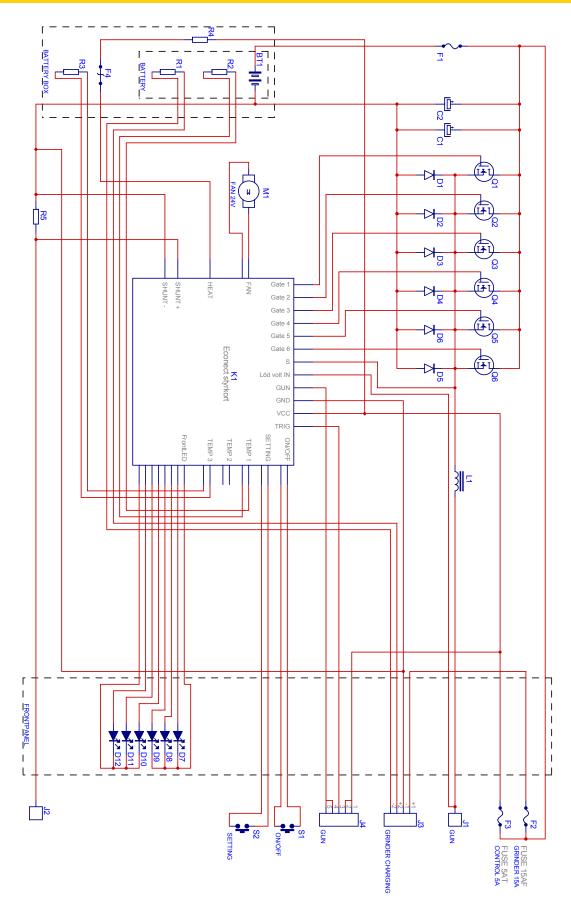
Resistor 220hm/4W.

2 x Plastic washer.

3 x Cable ties.



EPX10 ELECTRICAL DIAGRAM



NOTICE

The Battery kit (P/N-73720) and steps 1 thru 19 listed below applies only to units with S/N 1215091 and Higher. For Units with serial number 1215090 & below, these units must be returned to the factory for battery replacement.

Econect battery kit P/N-73720 for serial number 1215091 and Higher.

Including:

Econect battery.

2 x 13mm spanner.

3mm hexagon key.

Side cutters.

Resistor 220hm/4W.

2 x Plastic washer.

3 x Cable ties.

1. Remove all screws on the sides of the unit with a 3mm hexagon key.

2. Cut the cable ties for the positive and fan cable.

3. Pull out the connector for the fan.









4. Remove all screws on the backside of the unit with a 3mm hexagon key and remove the back.

WARNING

5. WARNING: RISK FOR SHORT CIRCUIT.

With two 13mm spanners remove the batteries

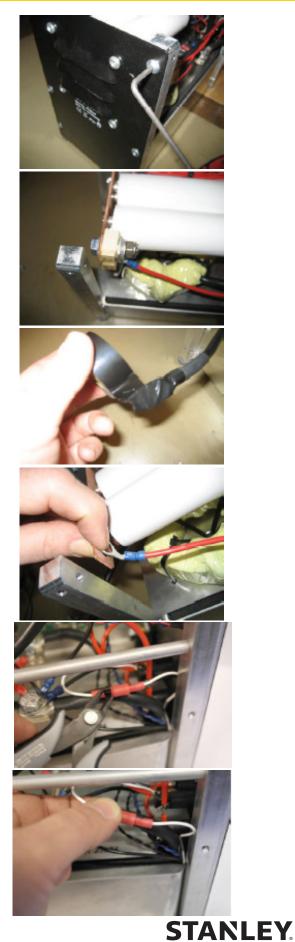
positive cable, also remove the bolt and fuse. Be careful so the cables don't come in contact with any other parts in the unit.

6. Directly after disconnecting the positive cable, it must be insulated.



7. Hold the cable for the electronics on to the copper rail and press ON and hold it for at least 30 seconds, to discharged the capacitors.

8. Cut the cable tie, pull out the cable.

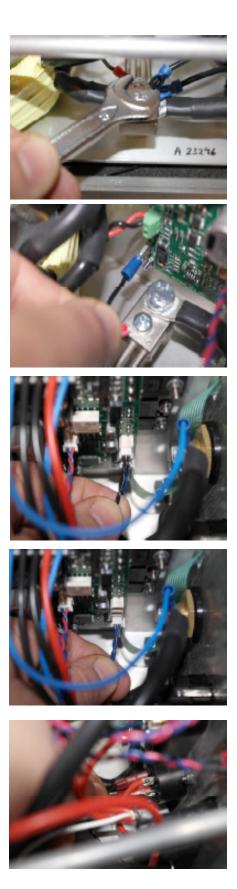


9. Remove the batteries negative cable from the current shunt.

10. Pull out the cable.

11. Pull out the black cables connector form the top socket (TEMP1) and the blue cables connector form the bottom socket (TEMP3).

12. Remove the two connecters on the charger outlet, that aren't soldered.





13. Make sure that all cables are free then pull out the battery box.





14. Replace the battery, make sure that the battery is placed in the same way as the old.

WARNING: Connecting the battery in the wrong way will cause damage to the electronics.

15. Slide in the new battery and start connecting the cables in the reversed order, start from step 12 up to step 8.



WARNING

16. WARNING: RISK FOR SHORT CIRCUIT.

Mount the M8 bolt with a plastic washer on the copper rail.

IMPORTANT

Before the battery is connected, the capacitors must

be charged. Hold the resistors that came in the kit in contact with the positive lead of the battery and connect the other lead to the copper rail, hold for 15 to 20 seconds.

Continue with the next step immediately, if not charging must be redone.

After charging set the resistor aside for future use if needed.





17. Mount the fuse and batteries positive cable on the bolt.

18. Mount the positive cable for the electronics and a

plastic washer.





19. Mount the washer and lock nut and tighten. Don't tighten too hard, the plastic washers may get damaged.

Continue with step 4 to1, to complete.





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