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OPERATING INSTRUCTIONS FOR THE EAGLE 2010-DDD HOT-AIR WELDING TOOL

CONGRATULATIONS! You have purchased an Eagle, a tool that is designed and manufactured to assist you with a quality seam weld. NOTE: The Winston Group does not warrant seam performance. We supply a tool which provides heat, speed, and pressure. You, as the operator, select the correct combination of these three components and, like all tools, the most important factor to a quality seam is your skill and experience in setting up and using the Eagle.

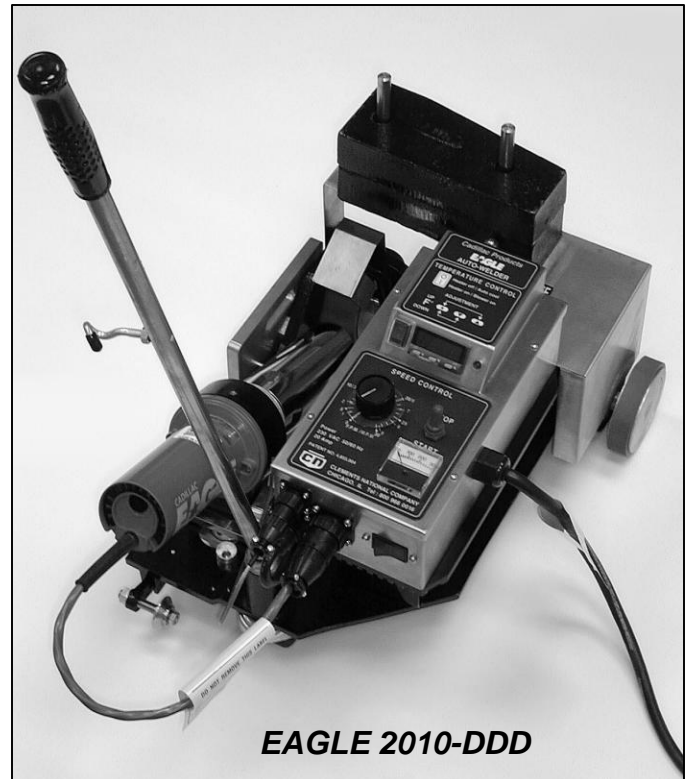
WARRANTY CARD. A postage-paid warranty card is included in the shipping box. Please fill it out so that we can provide you any new product information or "tips" for better welding. The serial number of your unit is located on the handle of the gun assembly.

READ THESE INSTRUCTIONS. Any new tool requires familiarity. Take fifteen minutes of time to get acquainted with your purchase. These instructions are intended to guide you through connection, operation, trouble shooting, and maintenance.

If you have any questions or problems in start-up, give us a call in Illinois number at 1-630-231-0419

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EAGLE 2010-DDD

I. UNPACKING, ASSEMBLY AND CONNECTION

A. UNPACKING.

Your new 2010 Hot Air Welder is delivered to you in a sturdy, reusable polymer tool box. The custom designed foam base and spacers assure that your machine is protected and arrives ready to assemble and use.

Remove the handle and the two vertical foam spacers by lifting them straight up. Remove the machine by lifting it straight up and out and set it on a horizontal surface. The 2 additional 10 lb. weights are packed in cut-outs under the machine with foam covers on top.

Remove the foam covers from the weights and place them into the cut-outs for reuse after removing the weights. Return all of the foam pieces to the box for later use during transportation and storage.

The only assembly required is to thread the handle into its base on the frame and tighten it down with the lock nut, and attach an appropriate twist-lock plug to the end of the cord as described below.

B. ELECTRICAL POWER REQUIREMENTS.

(CAUTION): You Are Working with High Voltage Equipment . Death or Serious Injury May Occur During or After Equipment Connection. Utilize a Qualified Electrician.

Rating: 230VAC at 20 AMP The Eagle will operate within a range of 200VAC to 240VAC. Checking the voltage at the point of unit plug-in is critical to the performance of your welder. You can perform the voltage check with built in voltmeter.

Generators: 7,500 Watt Portable Generators should be used as a power source for each Eagle 2010 automatic unit in use. Building electrical outlets are a poor source of voltage because they are too unpredictable. Even when they are dedicated circuits, power spikes and drops can occur, resulting in sub-standard equipment operation. A 7,500 Watt capacity for the generator provides a measure of protection against insufficient voltage.

Remember, the Eagle utilizes 4,200 Watts so the gauge and length of your extension cord will affect the wattage requirement.

Extension Cords: *Extension cord should be at least 10 Gauge, 3 wire, grounded cable.* Do not splice lengths of cable together and do not use cables with damaged insulation. This is a serious safety hazard, and can cause a poor connection, resulting in sub-standard machine performance. Some temperature rise on the cord is normal while the welder is operating because of the heavy current conduction. Uncoil the cable if possible to let the cable cool off. Hot cable could cause safety hazard and poor performance.

Keep in mind that a good cable is as important as the generator for the best performance of welder

Maximum Extension Cord Lengths		
Voltage @ power source	10 AWG 3Wire	12 AWG 3Wire
208VAC	100 Feet	50 Feet
220VAC	200 Feet	100 Feet
230VAC	300 Feet	200 Feet
240VAC	400 Feet	300 Feet

C. PLUG CONNECTION.

A Three-prong Twist Lock plug with a rating of 30 Amps and 250VAC is required. Because there are numerous plug configurations, the Eagle is shipped without a plug. A plug with a rating of **30 Amps and 250VAC** must be purchased and properly installed. The purchased plug must fit the generator outlet.

The white and black wires from the cord set of the welder must be connected to the appropriate "X" and "Y" terminals in the plug to obtain the proper voltage. The green wire must be connected to the ground terminal of the purchased plug.

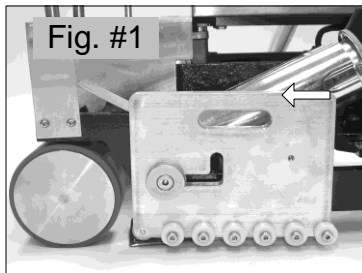
D. ADDING THE WEIGHT KIT, THE AIR DAM, AND CHECKING THE NOZZLE.

If recommended by the membrane manufacturer, add the 20 pound weight kit. Most membrane manufacturers require the weights for welding. The amount of weight is a function of the type of membrane, the type of insulation material and its thickness.

Weight Kit:To add the weight kit, simply slide the two weights over the preinstalled pins on the platform over the pressure wheel. A third 10 pound weight may be added if required.

Air Dam: The air dam was designed to prevent hot air from blowing beyond the overlap. It restricts the hot air to the seam area, to insure a more uniform weld.

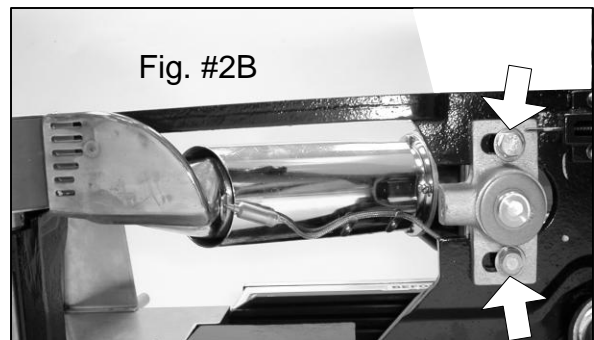
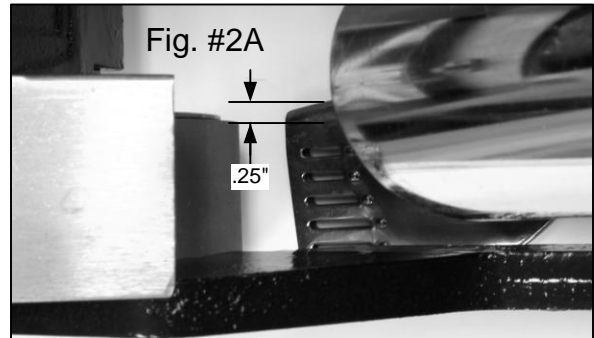
Position the air dam so that the small wheels are mounted on the outside of the unit, and thread the retaining screw into the hole located on the left side of the frame. The air dam, when extended forward, should be flush against the compression wheel.



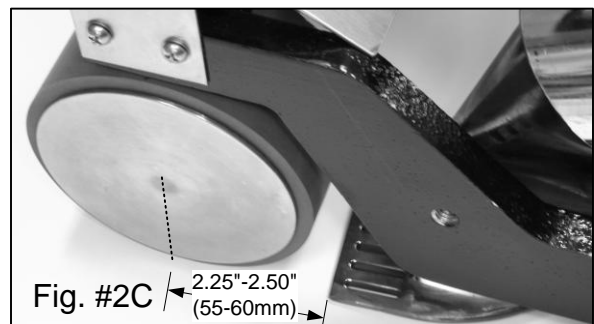
During use, it may be necessary to lubricate the wheels on the air dam by spraying the wheels with a silicone lubricant or WD-40. Rotate the wheels to assure that they move freely, then wipe any excess lubricant off the surfaces. Fig. #1 showing the air dam installed. To lower the air dam wheels on to membrane push the air dam toward compression wheel.

Please Note: When heat seaming some waterproofing membranes, the use of an air dam may cause a pinch wrinkle to form parallel to the seam on the top sheet. If this occurs, reduce the air flow by twisting the baffle at the rear of the heat gun assembly, or adjust the weld temperature. In most cases, this wrinkle will disappear as the membrane is exposed to the elements.

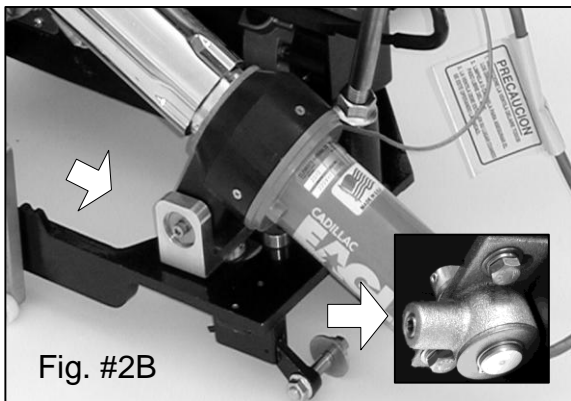
Welding Nozzle Alignment: Check the alignment of the welding nozzle to the compression wheel as shown in Fig. #2A. The inside edge of the compression wheel should be in line with the inside edge of the throat of the welding nozzle as shown. Proper alignment of the welding nozzle to the compression wheel is accomplished by adjusting the two bolts on the underside of the unit. Fig. #2B.



Checking the Compression Wheel: Check the distance between the vertical centerline of the compression roller and the tip of the nozzle. The distance should normally be 2 1/4"-2 1/2" (55-60mm) from the centerline of the roller. Fig. #2B, Fig. #2C.



Gimbal Mount Adjustment: One of the patented features of this welder is the Gimbal Mount for the welding nozzle assembly. It allows the operator to "SNAP the welding nozzle in and out of the membrane overlap with a "SNAP" of the wrist. The tension on the lateral movement is adjustable. By rotating the setscrew (item 41) clockwise, you tighten the tension, turning counter-clockwise, of course, loosens it. (See Fig. #2B). Setscrew should be almost flush with the face of the casting. **(CAUTION): Over tightening the setscrew would freeze the lateral movement.**



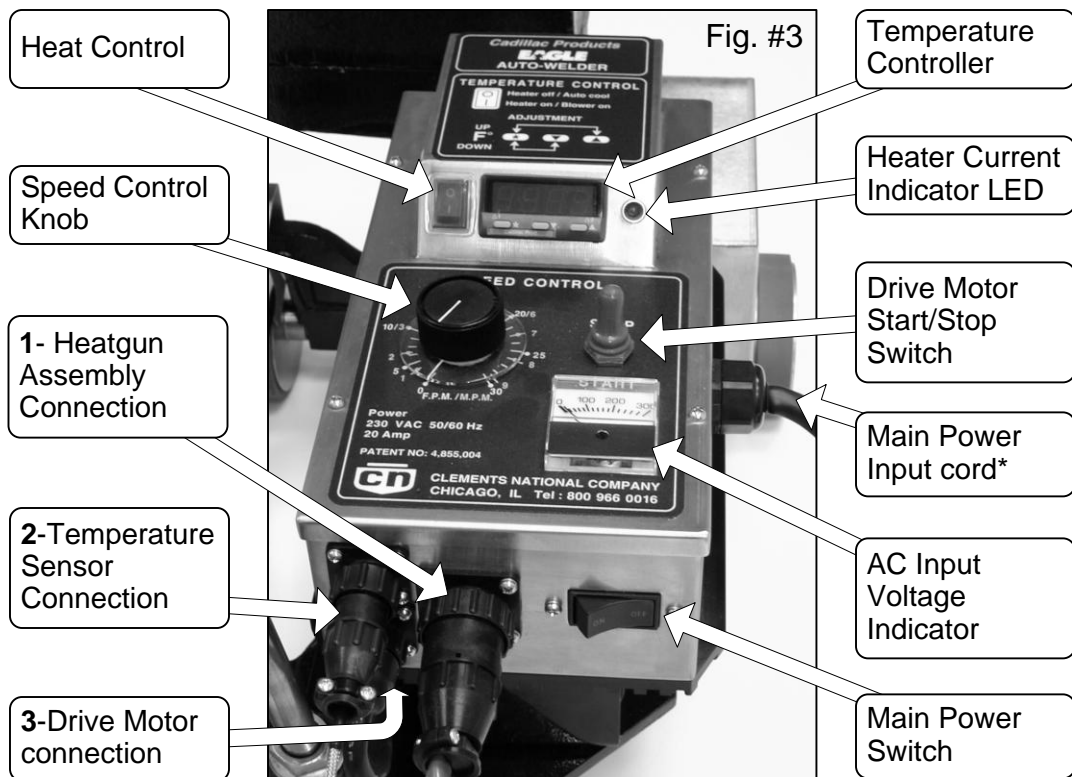
E. Checking The Control Box Plugs (See Fig. #3):

Each connector is "keyed" or "indexed" for proper alignment when attached. **Do not force or attempt to disassemble the connectors at any time.**

1-The plug for the heat gun assembly should be connected to the outlet on the right side, located in the back of the control box.

2-The drive motor plug should be securely connected to the lower outlet on the left side of the control box. **Be sure that the lead wire has no abrasions or kinks in it.**

3-The plug for the temperature sensor has a silver lead and should be connected to the upper outlet on the left, located in the back of the control box.



* 30A 250V Twist-Lock Plug L-6 Recommended

F. THREADING THE HANDLE.

Thread the handle to the back of the welder. Tighten down the locking bolt so that the handle is firmly bolted to the unit. Put gear arm to free-wheel to move the welder. **(CAUTION): Lifting the welder by the handle can break off the handle.**

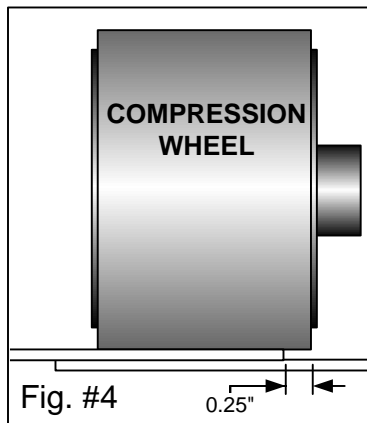
II. OPERATION

A. POSITIONING OF WELDER

Position the unit so that the front compression wheel is sitting entirely on the top of the membrane, approximately 1/4" over the edge of the seam. (See Fig. #4).

The unit should be "squared up" so that it will run parallel to the seam. It automatically runs along the lap of the seam.

With a wrench, adjust the tracking guide Part# 8605 in the back of the welder to assist in maintaining a parallel position down the length of the seam. When not in use, make sure that heat gun shoe is resting on the metal resting plate, which protects the pressure roller from burns.

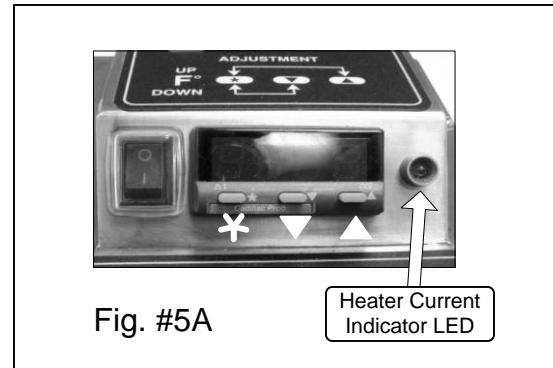


B. MASTER SWITCH AND CONTROL SETTINGS.

Check the built in voltmeter to make sure you have the proper voltage. With the heat control switch positioned to "I", the speed control knob set at "0", and the drive motor switch in the "Stop" position, flip the master power switch to "on" position. (See Fig. #3, Fig. #5A, Fig #5C). The fan motor will start immediately. If the fan motor does not run or the circuit breaker trips (built into the master control switch), turn off the main power switch and check all electrical connections.

The heat element current indicator led will glow continuously until the set temperature has been reached. **When the set temperature is approached the heater indicator led pulsates on-off.**

To change temperature; while pressing ***** button on the controller hit one of the other two buttons



When the temperature display reaches set temperature, dial in the desired speed for welding and engage the gear arm to "DRIVE". Insert the nozzle quickly into the seam then set the drive motor switch on to "START" and begin welding. (See Fig. #5B, Fig. #5C).

At the end of welding if shutdown is desired, first set the heat switch off. This will cause the unit to stop heating and will start the auto-cooling cycle. Once the cooling reaches approximately 130F blower will automatically stop, indicating that unit is ready for complete shutdown. You can now turn off the master switch.

(CAUTION): Turning off the master switch prior to end of cooling cycle may cause severe damage to welder due to excessive residual heat. If blower ever stops while the heatgun is hot, tilt the heatgun so that nozzle is all the way up. This will help keep the residual heat drifting away from blower parts of the welder.

(CAUTION): The heat shield of the nozzle could remain hot to touch even after welder automatically shuts off the blower. Avoid touching to nozzle all times and be extremely careful.

C. SEAM STARTUP, WINDOW OF WELD.

With the unit up to set temperature put the gear arm in to "DRIVE", position the nozzle tip into the membrane seam and immediately turn the drive motor switch to "START". (See Fig. #5B).

The operator must assist the welder, guiding it down the length of the seam. Since the operator is walking **BACKWARDS** on the substrate, **CAUTION MUST BE TAKEN AT ALL TIMES** for his own safety. (See Fig. #5C).

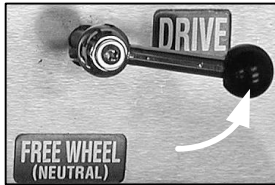


Fig. #5B



Fig. #5C

WINDOW OF WELD

The Winston Group does not warrant seam performance. Only you can control and verify a quality seam. The operator's selection of speed, temperature, and pressure (weight kit) will vary with the type of membrane, its color, the substrate, and the conditions of the jobsite. In addition, your membrane manufacturer will provide you with a correct temperature and speed guidelines. In the selection of temperature and speed, the experience of the operator and the advice of the membrane manufacturer are the primary sources of information. Always conduct test welds to determine the required settings for the membrane.

REPRESENTATIVE CONTROL SETTING FOR VARIOUS MATERIALS *			
Material	Heat Setting (F°)	Speed Setting (FPM)	Weight (Lb)
PVC	1200-1300	8-9	0-20
TPO(EP)	850-1300	10-13	0-20
CSPE(Hypalon)	1100-1200	9-12	0-20
APP(Modified Bit.)	1100-1200	8-12	0-30
SBS Modified Bit.)	1100-1200	8-12	0-30

*The values shown are representative for "normal" ambient weather conditions and provided only as a starting point for test welding. The Winston Group does not warranty the weldability and seam strength of any material. The end user must conduct test welding to determine actual control settings.

D. SEAM VERIFICATION.

At the beginning of a day's seam welding, the operator of the unit must always perform destructive seam analysis to make sure that he has selected the optimum mix of temperature, speed and compression for his welder, and the particular membrane. (See Fig. #6).

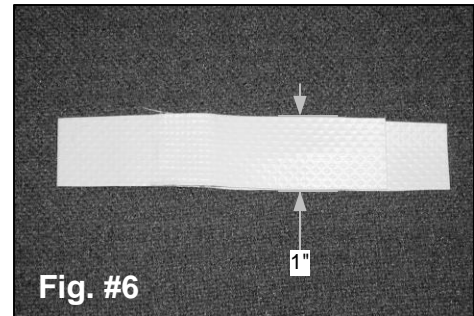


Fig. #6

Cutting out a 1" by a 6" cross section of the seam and performing a peel of the seam sample should result in the destruction of either the bottom surface of the top membrane or the top surface of the bottom membrane. Where the membrane is reinforced, there should be separation of the weld down to the scrim reinforcement. (See Fig. #7)

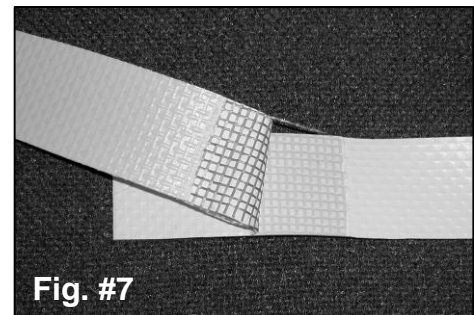


Fig. #7

If you have concerns about performance of the results see section V. TROUBLESHOOTING TIPS

This seam analysis should be performed at the beginning of a day's production, and at any significant change in operating environment, such as:

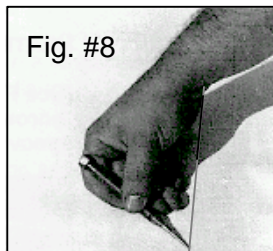
- A ten degree (F) change in ambient temperature.
- A significant change in cloud coverage.
- A moderate change in wind conditions (10MPH).
- A moderate change in humidity (10%).
- A noticeable change in the speed of the drive (indicating a significant change in voltage).
- Movement from a major shaded area to a major sunny area, or vice versa.
- Weight change (adding or taking off weights).

The operator should select a mix of speed, weight and temperature that is conservative, that is, he should never run the welder at the "high edge" of welding. There should be a minimum of a 20% margin of safety against peak speed and temperature mix.

The operator should be cautious of poor welds where there is a change in plane of the substrate surface. For example, where there is a seam along the edge of a raised insulation board or where a fastener plate is located too close to the edge of the seam, there may be insufficient compression of the seam.

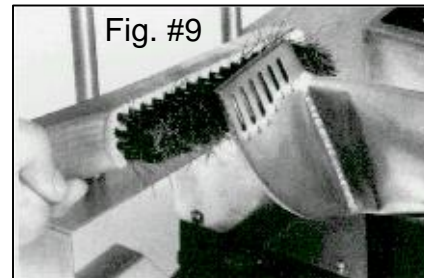
Start and stop points in a seam are especially vulnerable to cold weld, so these should be marked and checked carefully.

The operator should always "probe" ALL edges of ALL seams to verify welding (See Fig. #8).



The most common probing method is to run a pointed, metal, hand tool along the edge of the seam with pressure to the tool. Some installers prefer to check seams with a compressed air tool which identifies a seam gap where air enters the seam and flutters the underside of the membrane.

At the end of each 100 foot seam, it is recommended that you wire-brush the bottom of the gun tip to remove any material that may have accumulated in welding. (See Fig. #9).



E. SHUTTING DOWN THE WELDER.

First, remove the nozzle tip while the welder is still in motion by positioning the nozzle tip in an "UP" position, pointing into the air. **Switch the Drive Motor to "STOP" and put the drive gear arm to "FREE WHEEL". (See Fig. #5B), (See Fig. #5C).**

Push "0" on the Heat Control Switch (See Fig. #3) This will start auto cooling cycle of the blower. Heating will stop regardless of temperature setting on the controller. **Blower will continue running until the output temperature is approximately 130°F. The master power switch can then be turned off.**

DO NOT TURN THE MASTER CONTROL SWITCH OFF UNLESS YOU HAVE ALLOWED THE GUN TO "COOL" DOWN. Failure to cool the gun prior to turning the power off may cause damage to the unit's heating element and/or internal components. Make sure that the heat of the resting nozzle tip is not pointed in the direction of the weights. Leaving the heat gun in the down position will cause damage to the compression roller.

III. GENERAL SAFETY INFORMATION.

- You are working with high voltage equipment. Always disconnect the power source before servicing the welder.
- Never pull or carry the welder by a power cord or electrical connection.
- Keep clear of the heat gun nozzle. Exposed skin will burn upon contact.
- Always heat seam in a well-ventilated area. Do not inhale fumes caused by the heat seaming process.
- Do not operate near flammable materials. Do not apply any flammable liquids to the surfaces to be heat seamed.
- Always cool the heat gun down before shutting off the master switch. Always cool the unit before storage.
- Protect the unit from exposure to rain. Do not weld when water is standing on the membrane.
- Call if you have questions
1-630-231-0419

IV. MAINTENANCE

A. HEATING ELEMENT REPLACEMENT.

(See Fig. #12 & 13). Disconnect power source. Make sure the unit has thoroughly cooled. Replacement of the heating element is accomplished by removing the four screws at the base of the heat gun nozzle. Before inserting the element, make sure that you align the pins according to key marks on the element and base.



C. CLEANING.

Use wire brush at the end of each 100 foot seam to keep nozzle foot clean. (See Fig# 9.)

Check and clean Air Intake screen on back of heat gun handle at least twice a day. Dust and lint will clog the screen. Brush out with a small soft brush, and rotate the baffle. (See Fig#14)

Do not operate unit with intake screen damaged or missing. Material drawn into the heat gun can damage the impellers, controls and heating element.



Fig#14

B. LUBRICATION.

Lubricate the following areas once a month with a light lubricating oil (LPS-2 or WD-40, for example):

- Drive axle bushings;
- Front casters;
- Pivot shaft of heat gun (remove set screw, spring, and ball and spray directly into hole)
- Chain.

D. BLOWER MOTOR BRUSH REPLACEMENT

Factory installed blower motor has about 1400 hours of brush life. To prevent potential stall problems during welding operation brushes should be replaced after 1000 hours of operation.

To replace the brushes do the following:

1. Turn the power switch off and disconnect power cord from supply.
2. Unplug thermocouple and fan-heating element supply cord.
3. Remove the two #8-32 x 3/8 screws that hold the blower motor housing.
4. Gently slide the motor housing away from the blower motor.
5. Bend the brass flap on the brush holder assembly about 90 degrees at both sides and remove the old brushes.
6. By matching the cylindrical surface of the brushes to the surface of the commutator, load the new brushes into brush holder.
7. Bend the brass flaps back to their original position.
8. Plug the main power and heatgun connectors to the unit and run the blower motor for 3-4 seconds and observe the amount of sparks. If sparks are larger than 1/16" consult the manufacturer. Motor replacement may be needed.
9. Unplug the main power and heatgun connectors and slide the motor housing to the original position. Fasten the mounting screws.

E. REPLACEMENT OF SCREEN.

Air screen should be cleaned as needed to maintain proper air flow to prevent over heating and loss of welding performance. After several cleanings you may need to replace the screen. To replace the screen do the following: (See Fig#15)

1. Turn the power switch off and disconnect power cord from the power supply,
2. Using a small flat tip screwdriver pry off the air damper,
3. Remove the defective screen and make sure there are no pieces of screen remaining inside the motor housing,
4. Place the new screen and air damper (best if both replaced at the same time,

Warning: Never punch the screen with a sharp object to open air path. This will allow airborne particles to get inside of the unit and shorten the life of the moving parts and heating element.

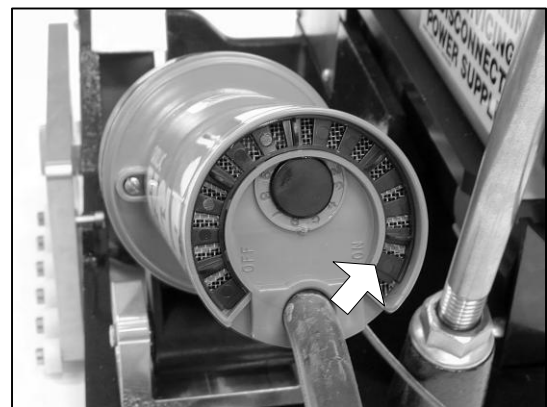


Fig. #15

V. TROUBLESHOOTING TIPS

NO HEAT

1. Check heating element by either replacing (see maintenance) or attaching an ohm meter to terminal 2 & 3 (See Fig. #16, Fig #3) of the plug end for a readout of approximately **11.5 ±1 ohms**.
2. Check the temperature sensor by attaching an ohm meter to the two pins in the temperature sensor connector. Readout should be approximately **1.5 ±0.5 ohms @ 72°F**. (See Fig. #3)
3. Check the heat gun motor by connecting ohm meter to terminals 1 & 2 (See Fig. #16, Fig. #3) of heatgun assembly plug connector. Readout should be **150 ±10 ohms @ 72°F**.

CAUTION: For measurement, always handle the connectors from indicated twisting section of the plug. (See Fig. #17). Disconnect main power before unplugging any connector.

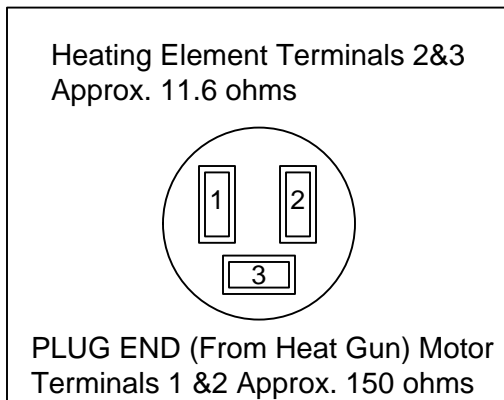
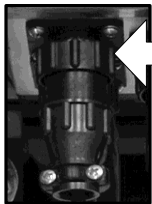


Fig. #16 Heat Gun Ass'y connector



Twisting this section to left removes, twisting to right engages the connector.

Fig. #17

POOR WELD .

1. Check power source for 200 to 240 VAC. (See Fig. #3)
2. Check and/or replace heating element.
3. Gun tip not properly aligned at 2-1/4"-2-1/2'. Loosen two bolts on underside of frame and adjust the yoke.
4. Add weight to increase lap compression
5. Incorrect relationship between speed and temperature. Consult membrane manufacturer. You may be moving too fast for your temperature setting.

NOZZLE CRAWLS OUT OF SEAM

1. Tighten set screw at the base of the yoke with a 7/32" Allen Wrench.

UNIT "JERKING"

1. Check for low voltage on the control box voltmeter. (Should be 200 to 240 VAC). (See Fig. #3)
2. Check drive gear arm.
3. Increase speed setting slightly higher.

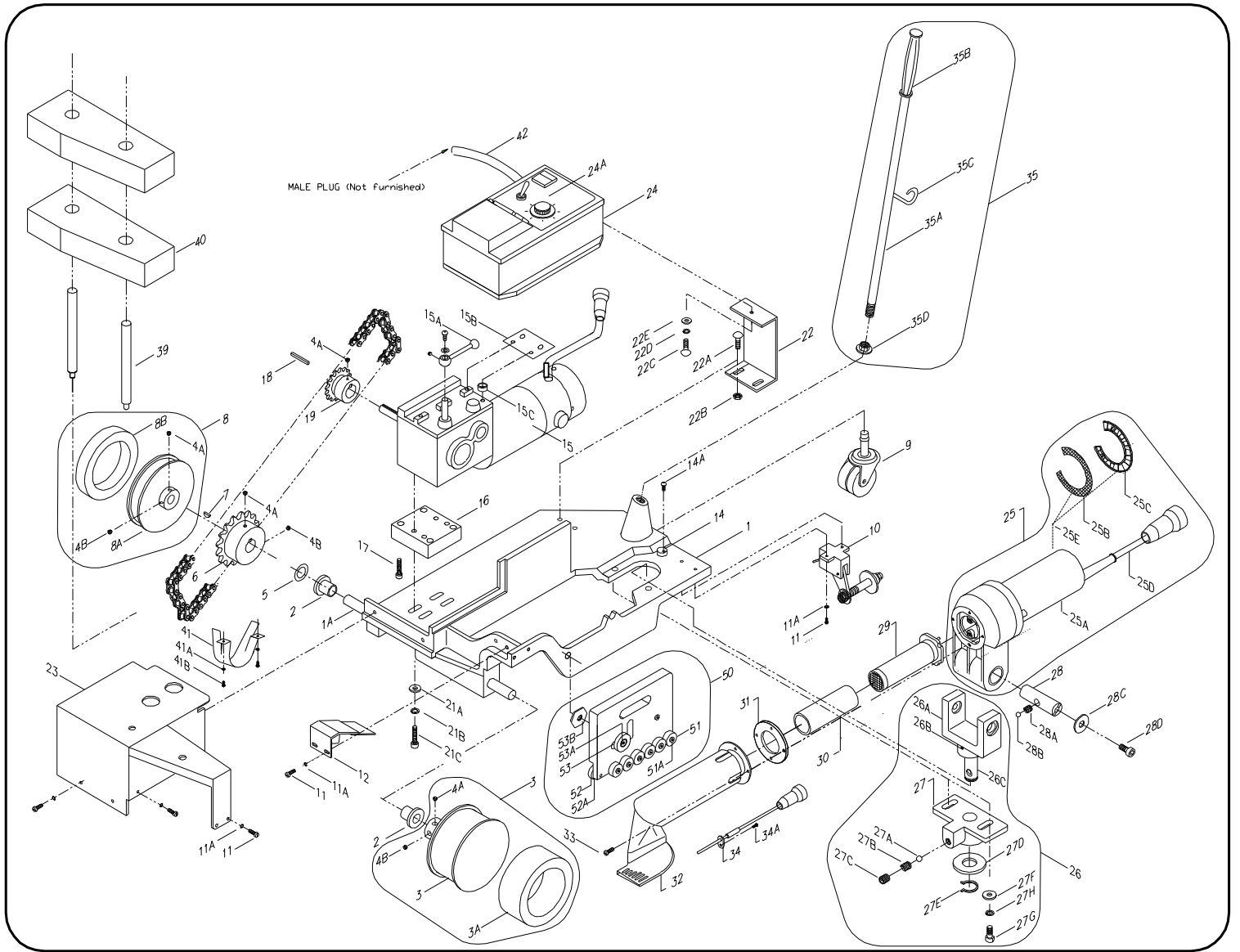
CONTAMINATE ALONG LENGTH OF SEAM

1. The compression wheel should be aligned on TOP overlap, 1/4" over the edge of the seam.

WRINKLES FORMING NEXT TO SEAM

1. Too much heat, lower temperature setting.
2. Check air dam wheels to make sure they are turning freely.
3. Use least amount of weights. Start with no weights and add-remove weights as required for best results.

2010-DDD REPLACEMENT PARTS



ITEM NO.	QTY.	PART NUMBER	PART DESCRIPTION
1	1	8690N	CHASSIS ONLY
1A	1	8760	AXLE SHAFT
2	2	8621	AXLE BUSHING
3	1	8761A	COMPRESSION WHEEL ASSY.
3A	1	8761	WHEEL- COMPRESSION
3B	1	8615	TIRE- COMPRESSION
4A	4	8677-1	SET SCREW (1/4-20X1/4 SCSCR)
4B	4	8677-1	SET SCREW (1/4-20X3/8 SCSCR)
5	1	8760-1	SPRING WASHER
6	1	MB-2110-3	SPROCKET
7	1	3305	WOODRUF KEY
8	1	8762A	WHEEL & TIRE DRIVE SIDE
8A	1	8762	WHEEL- DRIVE SIDE
8B	1	8614	TIRE- DRIVE SIDE
9	1	8617	CASTER
10	1	8605A	GUIDE WHEEL ASSY
11	1	8626	8-32X3/8 MACH. SCREW
11A	8	8863	INT. LOCK WASHER
12	1	8771N	NOZZLE FOOT REST
14	1	8799	YOKE CAM STOP
14A	3	8651	MACH. SCREW
15	1	8601N-NCL-P	DRIVE MOTOR w/ PLUG
15A	1	MB2502-S	DRIVE HANDLE
15B	1	8798-1	SUB BASE PLATE
15C	1	8871	SPACER .45IDX.550ODX.312LG ALUM
16	1	8601-S	MOTOR SPACER
17	4	MB-2326	CAP SCREW
18	1	MB-2339	KEY
19	1	MB-2333	SPROCKET
20	1	CW1100-35A	CHAIN ASSY
21A	4	8675	WASHER
21B	8	CB-259-06A	1/4 SS LOCK WASHER
21C	4	MB-2310	CAP SCREW
22	1	8812-2	SUPPORT BRACKET
22A	2	8858	CARRAGE BOLT
22B	2	5762N	LOCKNUT - NYLON
22C	1	8826	BOLT
22D	1	8675	WASHER
23	1	8770-DD	DRIVE COVER
24	1	8602AN-DDD	INSTRUMENT ENCLOSURE (CONTROL BOX)
24A	1	8795	SPEED CONTROL KNOB
25	1	8603AN	BLOWER MOTOR ASSY.
25A	2	8715-16N	CARBON BRUSHES (2 REQUIRED)
25B	1	8851N	SCREEN
25C	1	8700X-2	AIR DAMPER
25D	1	8660A	BLOWER MOTOR POWER CORD ASSY.
25E	1	8638N-B2010SA	MOTOR HOUSING W/ SCREEN & AIR DAMPER

ITEM NO.	QTY.	PART NUMBER	PART DESCRIPTION
26	1	8604A	YOKE & PIVOT ASSY
26A	1	8780N	YOKE
26B	1	8781N	YOKE PIVOT SHAFT
26C	1	8620	SHEAR PIN 3/16" DIA X 1-1/2"
27	1	8782NA	YOKE MTG BRCKT W/ BRNZ BRNG
27A	1	8680	STEEL BALL (LARGE)
27B	1	8681	COMPRESSION SPRING
27C	1	8682	7/16-20X3/8 HX SKT SET SCREW
27D	1	8687-1	LARGE WASHER 1-1/2ODX.755 X 1/8TH
27E	1	8679	RETAINING RING
27F	2	8635	5/16 FLAT WASHER
27G	2	8628	5/16-18X3/4 HX HD CAP SCR
27H	2	W10-S	5/16 LOCK WASHER
28	1	8783	HEATGUN PIVOT SHAFT
28A	1	8759N	COMP. SPRING
28B	1	8758	STEEL BALL (SMALL)
28C	2	8684	WASHER
28D	2	8683	CAP SCREW
29	1	8606N	HEAT ELEMENT W/O SLEEVE
30	1	8696N	INSULATION SLEEVE
31	1	8697	INSULATING SPACER
32	1	8768BF	OUTLET NOZZLE W/BAFFLE
33	4	8627	MACH. SCREW
34	1	8616AN-K	THERMOCOUPLE ASSY
34A	1	8630	SCREW 4-40X 1/4 RD HD PH
35	1	8609AS	GUIDE HANDLE ASSY
35A	1	8772S	GUIDE HANDLE
35B	1	9313	GRIP
35C	1	8817	CABLE SUPPORT
35D	1	8773	HEX FLANGE NUT
39	2	8789	WEIGHT PINS
40	2	8622	WEIGHT
41	1	8838	CHAIN COVER
41A	2	8863	#8 INTERNAL LOCKWASHER
41B	2	8651	8-32X3/8 SOCKET HD CAP SCR
42	1	8791	POWER CORD
50	1	8608AN-B	AIR DAM ASSY
51	6	8778M	WHEEL
51A	7	8777	STEP (SHOULDER) BOLT
52	1	8778-1	FOLLOWER
52A	1	8776	FOLLOWER SCREW
53	1	8855	AIRDAM NUT
53A	1	8854	SHOULDER SCREW
53B	1	8839	FLANGE NUT

Warranty

EAGLE MODEL 2010 AUTOMATIC HOT AIR WELDER

This product has been manufactured and engineered to the highest performance standards and has been subjected to testing prior to shipment.

ONE YEAR WARRANTY

THE WINSTON GROUP guarantees this product against defects in material and workmanship for a period of ONE YEAR from the established purchase date. The Winston Group will repair or replace, free of charge, any defective parts determined to be covered under this warranty by factory authorized service personnel. Labor to install these parts will be supplied at no charge during this one year period.

The complete unit or defective module must be returned to a factory authorized service center, freight prepaid, preferably with a letter of explanation.

CONDITIONS

This warranty does not apply if the unit has been misused, altered, or used for any purpose other than in accordance with the operating instructions provided. This warranty does not cover transportation, exterior finishes, heating elements, silicone wheels, or carbon motor brushes.

Operation of these units with other than factory original parts shall render this warranty null and void.

This warranty replaces all other warranties expressed or implied.

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