

110-119, 84295, Five Star

110-119 (84295), 295 amp AC / 250 amp DC Five Star Arc Welder

Output

20%

NEMA 50-P

110-119

230V

Item	Lincoln Stock #	Customer #	Description		Item	Lincoln Stock #	Customer #	Description
1	NLA	860-515-100	Case assembly		15	216-099-666	216-056-666	Fan motor assy.
2		239-057-666	Terminal block		16		860-514-666	Transient voltage protector
3		N/A	Base & Transformer		17	316-010-000	316-010-666	Fan Blade
4		860-186-666 (use 860-121-000)	Shunt		18		081-044-000	Tension bolt
5		310-101-666	Counter spring		19		860-921-666	Dial Indicator
6		860-184-666	Shunt clamp assy.		20		860-920-000	Cover assy.
7		860-119-666	Clamp roller assy.		21		412-095-200	Handle
8		860-518-666	Clamp rod kit		22		412-309-010	Cable wrap
9		330-017-666	Washer kit		23		410-187-036	Dial plate
10		711-158-026	Faceplate		24	216-010-666	216-010-666	Power switch
11		078-008-100	Snap plug		25		860-295-666	Dial linkage assy.
12		312-031-666	Clamp knob		Not Shown			
13	312-028-100	312-028-666	Receptacle		26	238-009-500	4007	12', 3 ga. ground cable w/clamp
14	214-004-666	214-004-666	Diode assy.		27		238-085-500 (4017)	18', 3 ga. Electrode cable w/holder
Manufactured from 6-24-86 to 3-2-93 (3160)					First Serial #	C178400, Last Ser	ial # D704858	8/21/2007
Model	Primary Input	Input Plug	Duty Cycle at Rated		Rated Output	Voltage Settings	Agency Listing	Max Output

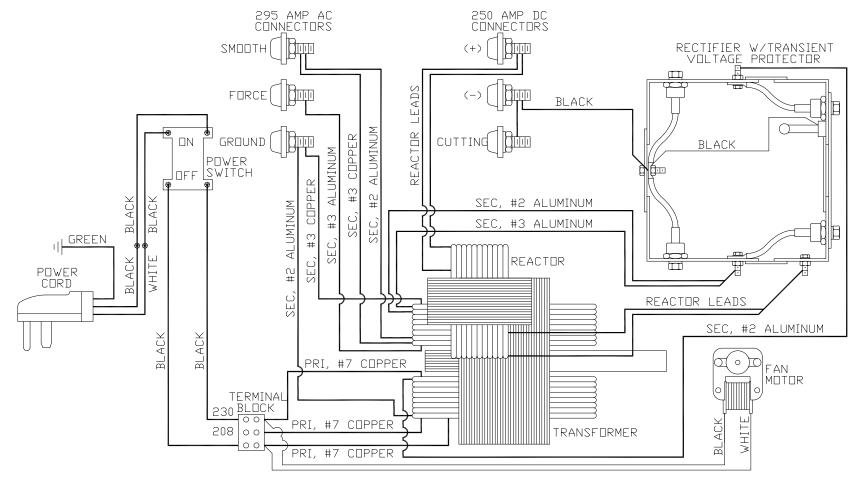
Output

295 / 250

Infinite

UL

295 amps



#2 WIRE IS THICKER THAN #3; #3 WIRE IS THICKER THAN #7.

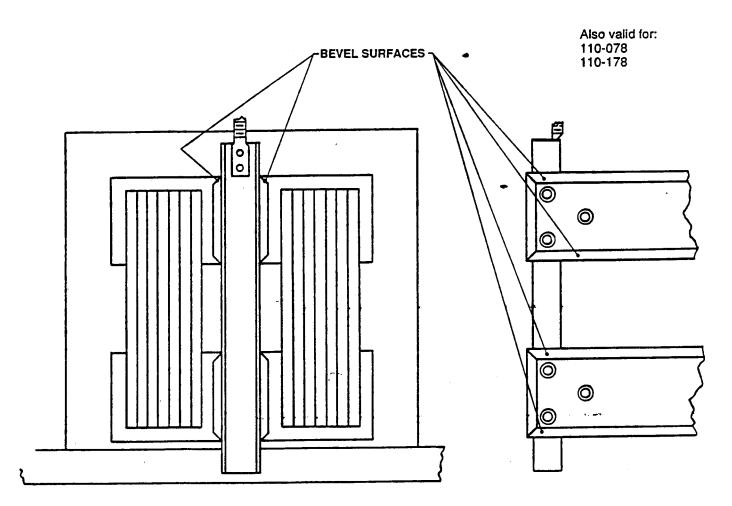
110-119 Five Star

Shunt Lubricating Procedure

- 1. Unplua Welder!!
- 2. Remove back of welder.
- 3. Release shunt lock.
- 4. Move shunt out of transformer to the end of shunt guide (maximum dial setting).
- 5. Apply silicone grease (stock # 098-068-000) to the exposed bevel surface (8).

- Turn dial indicator from maximum position to minimum position a number of times to work in silicone grease. Repeat steps 4 & 5 if shunt does not move freely.
- 7. In most cases the shunt lock will have to be readjusted. To do this follow maintenance instructions in lower right hand corner of decal on the inside top cover of welder.

NOTE: If shunt still binds, see <u>Shunt</u>
<u>Adjusting Procedure for</u>
<u>110-119-000</u>



END VIEW OF TRANSFORMER AND SHUNT

VIEW FROM BACK OF WELDER

Shunt Adjusting Procedure

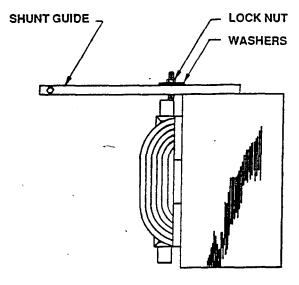
- 1. Unplug Welder!!
- 2. Remove the back of the welder.
 - 3. With shunt in the innermost position (as shown) check tightness of nut so that the washer moves without too much force.

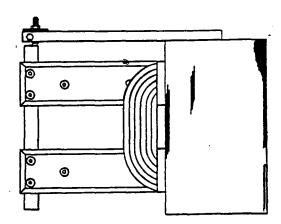
If washer moves freely with no pressure from the nut, tighten more.

If the washer cannot be moved then the nut is too tight and should be loosened up a little.

It should be possible to move the washer without too much force.

4. After nut has been tightened, pull shunt out of the transformer to the end of the shunt guide. If shunt moves out and back the full distance of the shunt guide without binding or sticking then no more adjusting is necessary.

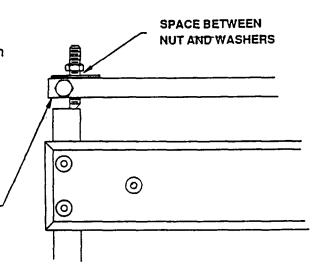




5. If shunt binds or sticks at all when moved back and forth along the guide then the guide is bent.

If the washer drops down away from the nut leaving more space between it and the nut then the guide is bent down and must be tapped back up.

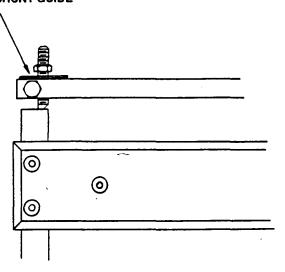
PUSH IN SHUNT AND TAP UP END OF SHUNT GUIDE



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If the washer is so tight in the extended postion that it cannot be moved without moving the whole shunt then the shunt guide is bent upward and must be tapped down until shunt moves in and out freely.

PUSH IN SHUNT AND TAP DOWN ON SHUNT GUIDE



When tapping guide either up or down both sides must be tapped equally so that washer does not become cocked.

