



# 117-009, 3Z914 Maintenance Mig

Item	Lincoln Stock #	Customer #	Description
2	NLA	410-421-050	Base, front panel
3	NLA	541-004-000	Strain relief
4		<b>238-160-666</b>	#3 Cable, 30" w/plug & lug
5	312-045-666	312-045-000	Receptace, panel mount
6	246-041-666	<b>246-095-000</b>	Knob, 1.5" dia.
7	NLA	711-140-060	Control panel
8		<b>860-523-000</b>	Resistor assy., 25Ω, 50 watt
9		<b>246-120-000</b>	Potentiometer, 5k, 1/4 watt
10		<b>880-041-888</b>	Control Transformer, 230Vac to 24Vdc, 6 amp
11		<b>246-052-666</b>	Switch, 9 position
12		860-581-100, <b>216-079-666</b>	Drive motor, 24Vdc
13	NLA	410-389-010	Drive deck
14	NLA	512-041-000	Insulation
15	860-614-666	860-614-666	Main circuit board w/ transistor
16	310-122-500	4323	Drive roller, 0.024 / 0.030 / 0.035
		4347, <b>310-154-000</b>	Drive roller, 0.045 serrated
17		<b>310-123-000</b>	Tension bar w/bearing
18	NLA	081-044-000	Tension bolt
19	NLA	330-021-000	Tension spring
20	NLA	246-113-000	Tension knob
21	NLA	410-325-000	Inlet guide tube
22	312-066-666	312-066-666	Spindle Assy.
25	NLA	239-102-000	Terminal block
26	246-086-666		Gas solenoid, 24Vdc
27	Use 5", #3 cable w/ 9/32" Lugs	410-190-000	Buss bar
28	213-018-666	213-018-666	Capacitor, 45,000mf, 45Vdc

Item	Lincoln Stock #	Customer #	Description
29	NLA	410-387-010	Base, back panel
30	248-301-000	248-165-000	Powercord, 10/3, 77"
31	NLA	541-004-000	Strain relief
32	216-053-666	216-053-666	Thermostat
33	214-004-666	214-004-200	Diode
34	316-010-000	316-010-000	Fan Blade, 8"
35	216-062-666	216-062-000	Triac Relay, 75 amp
36		<b>221-006-000</b>	Transistor (included w/ 860-614-666)
37	216-099-666	216-063-000	Fan Motor, 230Vac
38	NLA	860-692-000	Fan Shroud, heat sink assy.
39	NLA	860-669-000	Transformer
40	NLA	860-670-000	Reactor coil
41	NLA	410-386-010	Base, bottom panel
42	216-042-666	216-042-000	Power Switch, 230Vac, 40 amp
43	NLA	410-390-010	Hood
44	NLA	410-391-010	Right side panel
45	NLA	410-392-010	Left side panel

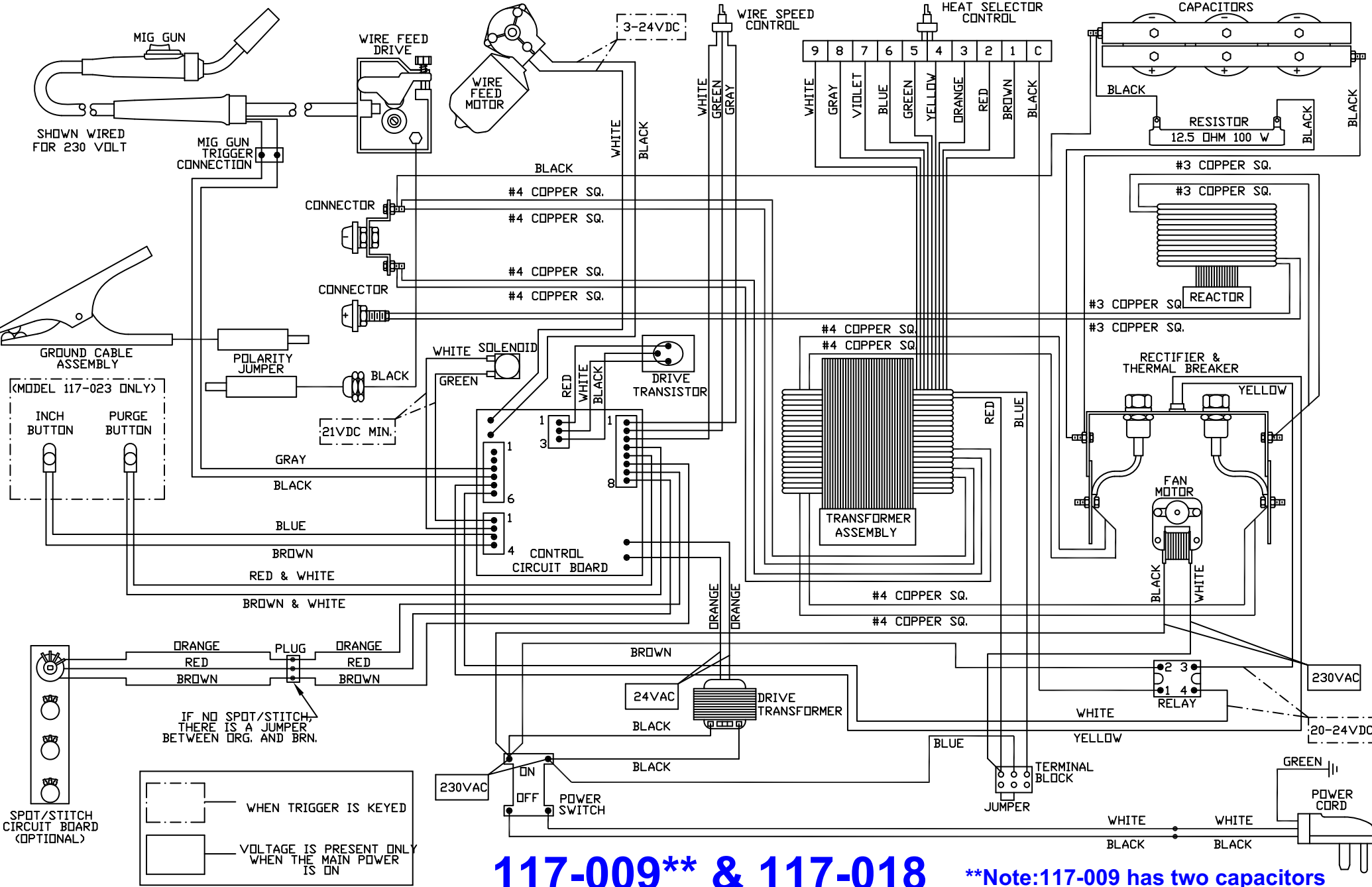
## Not Shown

46		<b>238-009-500</b>	Ground cable w/plug & clamp, 12'
47	<b>238-393-000</b>	<b>4365</b>	<b>Mig gun assembly, 12'</b>
48	<b>238-296-666</b>		<b>Mig gun assembly, 15'</b>
49	860-489-666	860-489-666	Spot stitch board
50	KP44-3545-15	334-375-000, 4370,KP1933-1	Steel liner for 19/64" opening (new)
	KP45-40-15	4331, KP1937-1	Steel Lliner for 15/64" opening (old)
51	KP42N-3545-15	334-376-000, 4368,KP1955-1	Teflon liner for 19/64" opening (new)
	KP1959-1	4325, 334-374-000	Teflon Lliner for 15/64" opening (old)

8/21/2008

Model	Primary Input	Input Plug	Duty Cycle at Rated Output
117-009	230V, 30A	50A	60%

Rated Output	Voltage Settings	Agency Listing	Max Output
160 amps	9	CSA	200 amps



# 117-009\*\* & 117-018

\*\*Note:117-009 has two capacitors



# 117-009 Schematic Legend

117-009, 3Z914

## Symbol Description

<b>C1</b>	45,000 $\mu$ f, 45v, Electrolytic Capacitor
<b>C2</b>	45,000 $\mu$ f, 45v, Electrolytic Capacitor
<b>CR1</b>	Diode, 150a, 300piv
<b>CR2</b>	Diode, 150a, 300piv
<b>DS1</b>	220v neon light
<b>F1</b>	One shot, 240 degrees celsius
<b>K1</b>	Gas Solenoid, 24vdc coil
<b>M1</b>	Wirefeed motor, 24vdc
<b>M2</b>	Fan Motor, 230vac
<b>PWB1</b>	Control circuit board
<b>PWB2</b>	Spot or spot stitch board
<b>Q1</b>	2N3055 Drive Transistor

## Symbol Description

<b>R1</b>	Resistor, 25 $\Omega$ , 50 watt
<b>S1</b>	Power switch, DPST
<b>S2</b>	Gun trigger, SPST
<b>S3</b>	9 position rotary heat switch
<b>S4</b>	Thermal breaker, 175 degrees Celsius open
<b>S5</b>	SPST, push-on momentary
<b>S6</b>	SPST, push-on momentary
<b>T3</b>	Reactor coil
<b>SSR1</b>	Triac Relay, D2475, 75 amp
<b>T1</b>	Control transformer, 230Vac to 24vac, 6 amp
<b>T2</b>	Weld transformer