

117-058 (YA217A), 110 Amp Mig

Item	Lincoln Stock #	Customer #	Description
1	Repair	880-188-888	Main weld transformer
2	NLA	880-215-888	Reactor Coil w/ thermostat
3		880-225-666	Wire harness
4	880-217-666	880-217-666	Circuit board
5	216-053-666	216-053-666	Thermostat
6	S18414-1	239-159-666	Power receptacle
7	216-087-666	216-087-666	Fan motor
8	NLA	412-375-000	Fan motor bracket
9		316-009-000	Fan blade
10	131-419-000	131-213-000	Tension hardware
11	S18475	248-226-000, 248-227-100 (4040)	Power cord
12	312-076-666	312-076-666	Spindle
13	312-110-666	312-077-666	Spindle adapter
14	246-086-666	246-212-666	Gas solenoid
15	310-122-500	4323	Drive roller, 0.024 / 0.030 / 0.035
16		412-280-666	Copper ring
17	Included in #19	880-111-666, 312-107-000	Tension arm only
18	Included in #19	239-123-666, 239-208-000	Inlet guide tube
19	880-130-666	880-130-666	Drive base with arm
20	S27985-4 with 880-130 base hole enlarged & terminals changed	216-089-666, 216-079-666	Drive motor
21	NLA	880-012-010	Handle assembly
22	NLA	412-278-010	Hood hinge

Model	Primary Input	Input Plug	Duty Cycle at Rated Output
117-058	120V, 20 amp	15A	20%

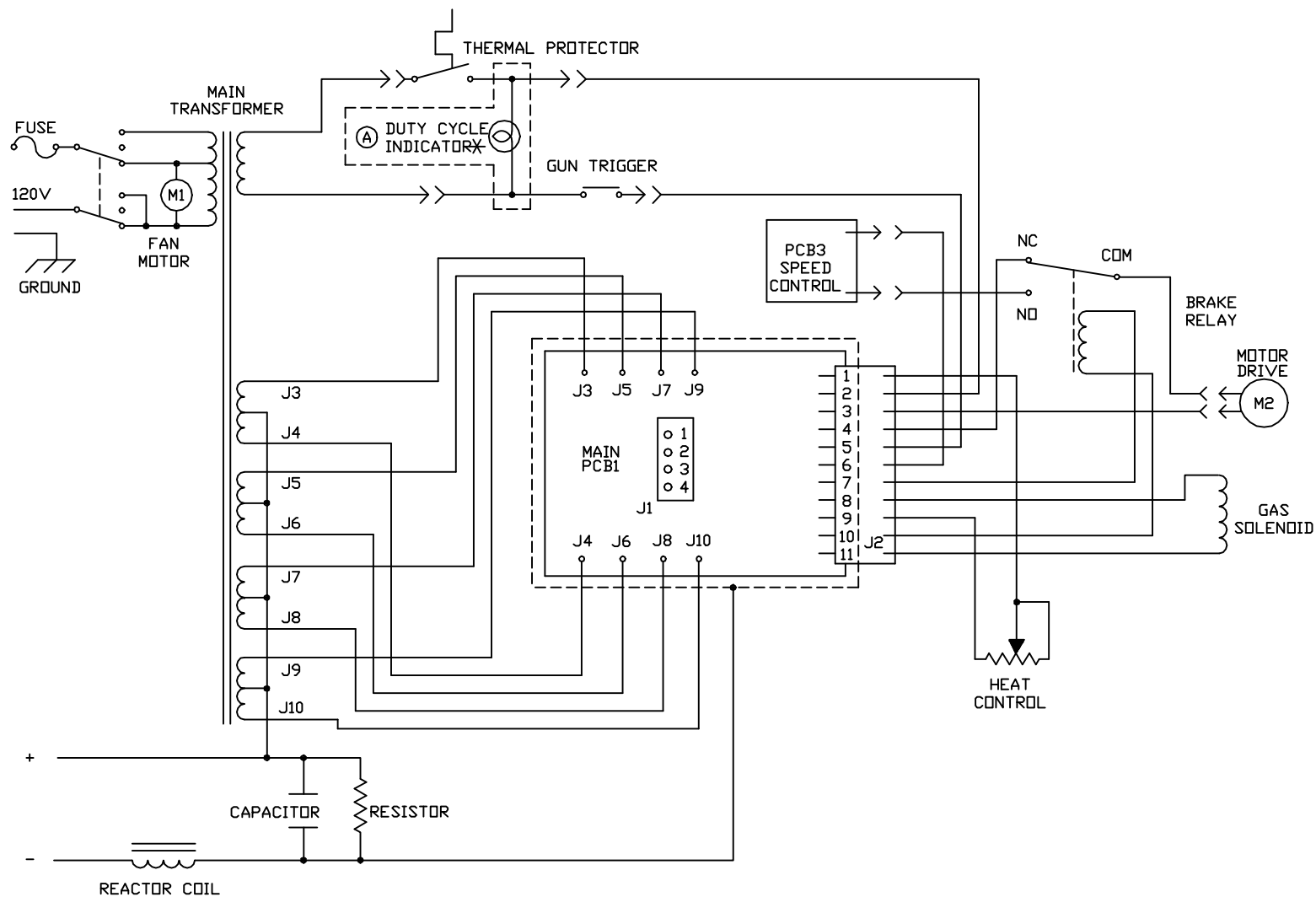
Item	Lincoln Stock #	Customer #	Description
23		246-107-000	Knob
24	246-259-666	246-259-666	90 / 110 Amp Rocker Switch
25	NLA	410-661-020	Right side panel
26		245-108-666	Heat potentiometer
27	880-219-666	880-219-666	Wire speed pcb
28		246-116-666	Fuse holder cap
		245-060-666	Fuse only, BAN30 or BLN30
29	246-258-666	246-258-666	Relay, 24Vdc coil
30	NLA	132-138-666	Nose w/ label
31		245-123-666	Lamp
32	S11609-18	238-216-666	Ground cable only, 9' w / lugs
	M12033	239-010-102	Ground clamp only(not shown)

Not Shown

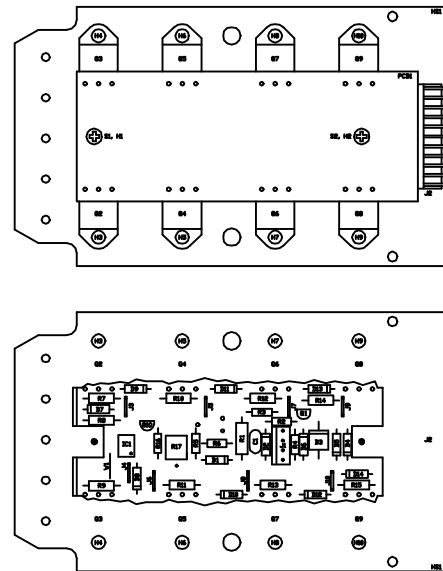
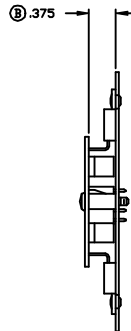
33		860-523-666	Bleeder resistor assy.
34	NLA	410-639-010	Base
35	S13490-109	213-035-666	Capacitor
36	238-155-000	238-155-000	10' Mig Gun
37	334-221-000	334-221-000	Trigger
38	KP45-40-15	4331, KP1937-1	Steel liner
39	KP1959-1	4325	Teflon liner
40	334-303-001	334-286-666	Mig regulator

2/16/2010

Rated Output	Voltage Settings	Agency Listing	Max Output
110 amps	Infinite	CSA	140 amps

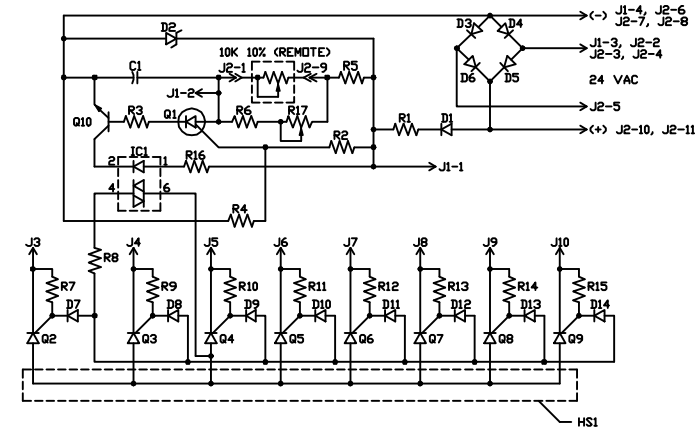


Models 117-052, 117-053, 117-058*, 117-061, 117-064



NOTES:

1. SOLDERING AND GENERAL WORKMANSHIP TO COMPLY WITH IPC-CM-770B.
2. TRIM EXCESS COMPONENT LEAD LENGTH TO .125" MAX.
3. CONFORMAL COAT PER QC PROCEDURE #QCP 98050. DO NOT CONFORMAL COAT POTENTIOMETER (R17).
MATERIAL: DOW CORNING 1-2577 .002 - .006 THICK
HUMISEAL 1A27 .002 - .004 THICK
4. KNOB OF POTENTIOMETER (R17) TO BE SEALED TO PREVENT ROTATION AFTER CALIBRATION OF CIRCUIT BOARD.
5. ENTIRE CONTACT SURFACE OF SCR'S (Q2 THRU Q9) TO HAVE THERMAL GREASE, GE #G64L OR EQUAL, APPLIED PRIOR TO RIVETING TO HEATSINK.
- 6.
7. BOARD TO BE SHIPPED IN BULK PACKING TO PROTECT FROM DAMAGE.



SCHEMATIC DIAGRAM

SYM	DESCRIPTION
J10	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J9	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J8	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J7	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J6	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J5	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J4	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J3	TERMINAL, .250 x .031 TAB, AMP #62650-1, AUTOSPLICE #7-13330-B
J2	CONNECTOR, 11-PIN, AMP #1-640389-1
J1	CONNECTOR, 4-PIN, AMP #640388-4
IC1	INTEGRATED CIRCUIT MDC 3021
HS1	HEATSINK CENTURY #412-374-001
H10	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H9	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H8	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H7	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H6	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H5	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H4	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H3	RIVET, SEMITUBULAR, .120 DIA x .218 L (CENTURY #077-056-000)
H2	SPACER O.D. 1/4", LENGTH .375 CLEARANCE #6 SCREW
H1	SPACER O.D. 1/4", LENGTH .375 CLEARANCE #6 SCREW
D14	DIODE, 1N4002 THRU 1N4006
D13	DIODE, 1N4002 THRU 1N4006
D12	DIODE, 1N4002 THRU 1N4006
D11	DIODE, 1N4002 THRU 1N4006
D10	DIODE, 1N4002 THRU 1N4006
D9	DIODE, 1N4002 THRU 1N4006
D8	DIODE, 1N4002 THRU 1N4006
D7	DIODE, 1N4002 THRU 1N4006
D6	DIODE, 1N4002 THRU 1N4006
D5	DIODE, 1N4002 THRU 1N4006
D4	DIODE, 1N4002 THRU 1N4006
D3	DIODE, 6A MR754 OR 6A4
D2	DIODE, ZENER 5.1V 1N4733A
D1	DIODE, 1N4002 THRU 1N4006
C1	CAPACITOR, .47uF 50V 5% PANASONIC V-SERIES

SYM	DESCRIPTION
V1	WIRE, 22GA TINNED COPPER CONDUCTOR
S2	SCREW #6-32 x 11/16" P.P.H. EXTENDED STAR WASHER
S1	SCREW #6-32 x 11/16" P.P.H. EXTENDED STAR WASHER
R17	POTENTIOMETER, CERMET 50K, SEALED
R16	RESISTOR, 100Ω 1/4W 5%
R15	RESISTOR, 100Ω 1/2W 5%
R14	RESISTOR, 100Ω 1/2W 5%
R13	RESISTOR, 100Ω 1/2W 5%
R12	RESISTOR, 100Ω 1/2W 5%
R11	RESISTOR, 100Ω 1/2W 5%
R10	RESISTOR, 100Ω 1/2W 5%
R9	RESISTOR, 100Ω 1/2W 5%
R8	RESISTOR, 100Ω 1/2W 5%
R7	RESISTOR, 100Ω 1/2W 5%
R6	RESISTOR, 13K 1/4W 5%
R5	RESISTOR, 4.3K 1/4W 5%
R4	RESISTOR, 15K 1/4W 1%
R3	RESISTOR, 33Ω 1/4W 5%
R2	RESISTOR, 10K 1/4W 1%
R1	RESISTOR, 330Ω 1W 5%
Q10	TRANSISTOR, 2N3904, MPS3904 OR PN3904
Q9	SCR CENTURY #244-073-000
Q8	SCR CENTURY #244-073-000
Q7	SCR CENTURY #244-073-000
Q6	SCR CENTURY #244-073-000
Q5	SCR CENTURY #244-073-000
Q4	SCR CENTURY #244-073-000
Q3	SCR CENTURY #244-073-000
Q2	SCR CENTURY #244-073-000
Q1	TRANSISTOR, 2N6027
PCB1	PRINTED CIRCUIT BOARD (CENTURY #S10-095-000)

(B) EN 11877 5-21-91 LRB	
(A) EN 11694 3-22-91 CEA	
SYN	REVISION
DATE	BY
CENTURY MFG CO	
DATE 11-14-90 MAT'L	
DO NOT SCALE	
UNLESS SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES UNLESS SPECIFIED	
DFT GRK	
ENG CHK	
ENG APPV JCW	
3-13-91	
PREVIOUSLY RELEASED AS	
APPLY	
SCALE 1:1	
DATE 11-14-90	
REV. NO.	
P. 74	
CIRCUIT BOARD ASSEMBLY	
880-550-000	