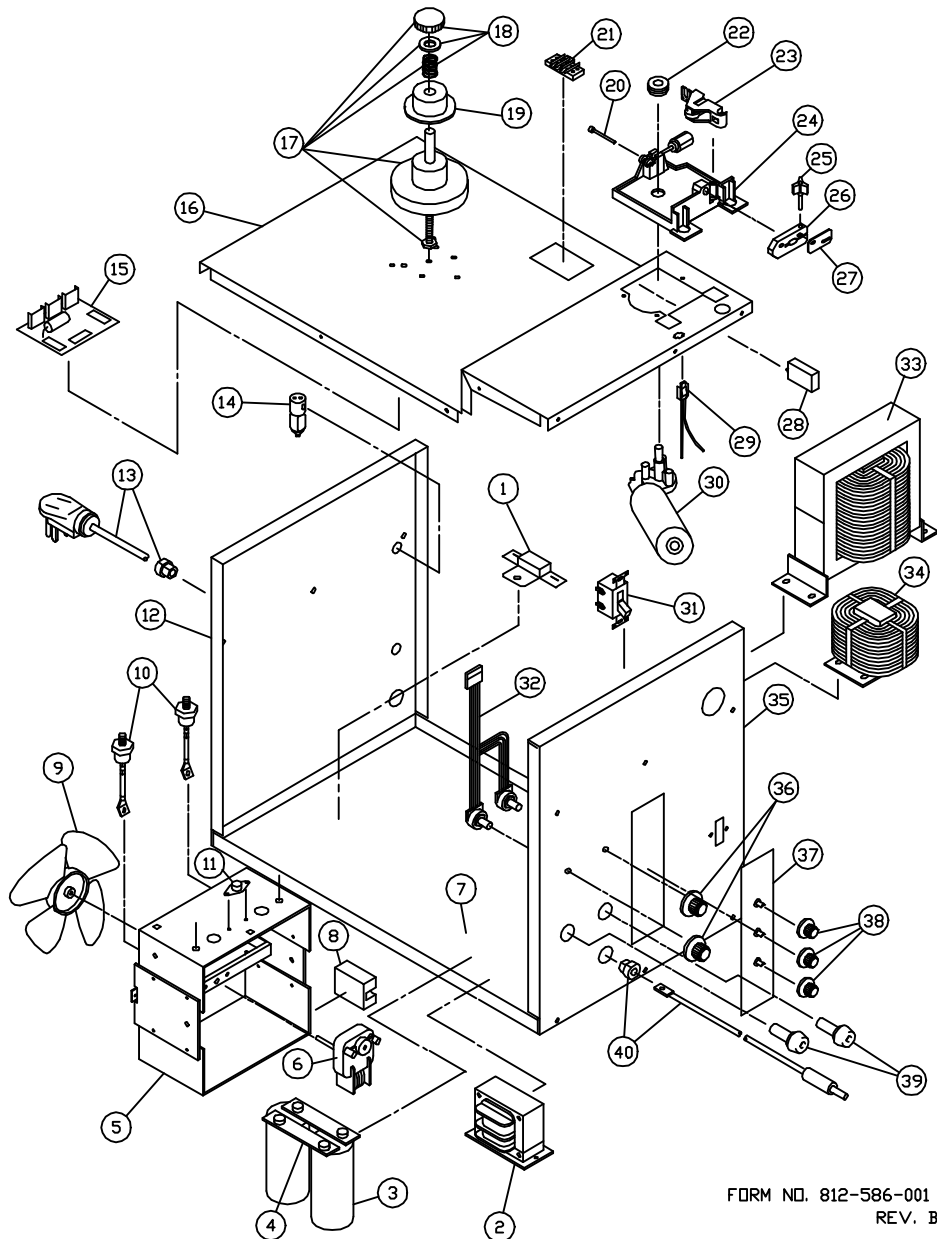


# 117-037, 83160, M02195, 3Z914A,C,D,E



FORM NO. 812-586-001  
REV. B

# 117-037, 83160, M02195, 3Z914A, C, D 160 Amp Mig

| Item | Lincoln Stock #             | Customer #                         | Description                                              |
|------|-----------------------------|------------------------------------|----------------------------------------------------------|
| 1    |                             | 245-145-000,<br><b>245-038-200</b> | 25Ω, 50 Watt bleeder resistor                            |
| 2    |                             | <b>880-041-888</b>                 | Control Transformer, 230Vac to 24Vdc, 6 amp              |
| 3    | 213-018-666                 | 213-018-666                        | Capacitor, 45,000mf, 45Vdc                               |
| 4    |                             | 412-202-000                        | Buss bar                                                 |
| 5    |                             | 860-039-000                        | Fan shroud/heat sink assy.                               |
| 6    | 216-099-666                 | 216-085-666                        | Fan motor                                                |
| 7    |                             | 410-594-000                        | Base                                                     |
| 8    | 216-062-666                 | 216-062-000                        | Triac Relay, 75 amp                                      |
| 9    | 316-010-000                 | 316-010-000                        | Fan blade                                                |
| 10   | 214-004-666                 | 214-004-666                        | Diode                                                    |
| 11   | 216-053-666                 | 216-053-000                        | Thermostat                                               |
| 12   |                             | 410-675-020                        | Back panel                                               |
| 13   | 248-301-000,<br>248-377-666 | 248-165-666                        | Power cord, 10/3, 6'                                     |
| 14   | 246-086-666                 | 246-086-666                        | Gas solenoid, 24Vdc                                      |
| 15   | 880-113-666                 | 880-292-008                        | Main Circuit Board                                       |
| 16   |                             | 410-674-010                        | Drive deck                                               |
| 17   | 312-066-666                 | 860-575-100                        | Spindle                                                  |
| 18   |                             | 246-363-000                        | Tensioner knob only (no spring or washer)                |
| 19   | 312-110-666                 | 541-083-000                        | Spindle adapter                                          |
| 20   | Included in # 24            | <b>239-208-000</b>                 | Inlet guide tube                                         |
| 21   |                             | 239-102-666                        | Terminal block                                           |
| 22   | 310-122-500                 | 4323                               | Drive roller, 0.024 / 0.030 / 0.035                      |
|      |                             | <b>310-154-000</b>                 | Drive roller 0.045 serrated                              |
| 23   | Included in # 24            | <b>312-107-000</b>                 | Tension arm only                                         |
| 24   | 880-130-666                 | <b>312-144-000</b>                 | Drive base assembly                                      |
| 25   | 246-326-000                 | 246-326-000                        | Gun connector knob                                       |
| 26   | 412-465-666                 | 412-465-666                        | Gun connector block                                      |
| 27   |                             | <b>412-464-000</b>                 | Copper jumper                                            |
| 28   |                             | 246-365-000,<br>246-142-666        | Circuit breaker for drive motor                          |
| 29   |                             | 880-035-666                        | Gun wiring harness (female)                              |
| 30   | 216-089-666                 | 216-089-666                        | Drive Motor w/gearbox                                    |
| 31   | 246-371-000                 | 216-042-666                        | Power switch (closed box for 117-037-905 & 117-037-903A) |
|      | 216-042-666                 | 216-042-666                        | Power switch for all other 117-037's (open contacts)     |
| 32   | 880-052-666                 | 880-052-666                        | Heat & wire speed harness w/ potentiometers              |
| 33   | 880-057-888                 | 880-249-888                        | Main weld transformer                                    |

| Model   | Primary Input | Input Plug | Duty Cycle at Rated Output |
|---------|---------------|------------|----------------------------|
| 117-037 | 208/230V, 30a | 50A        | 60%                        |

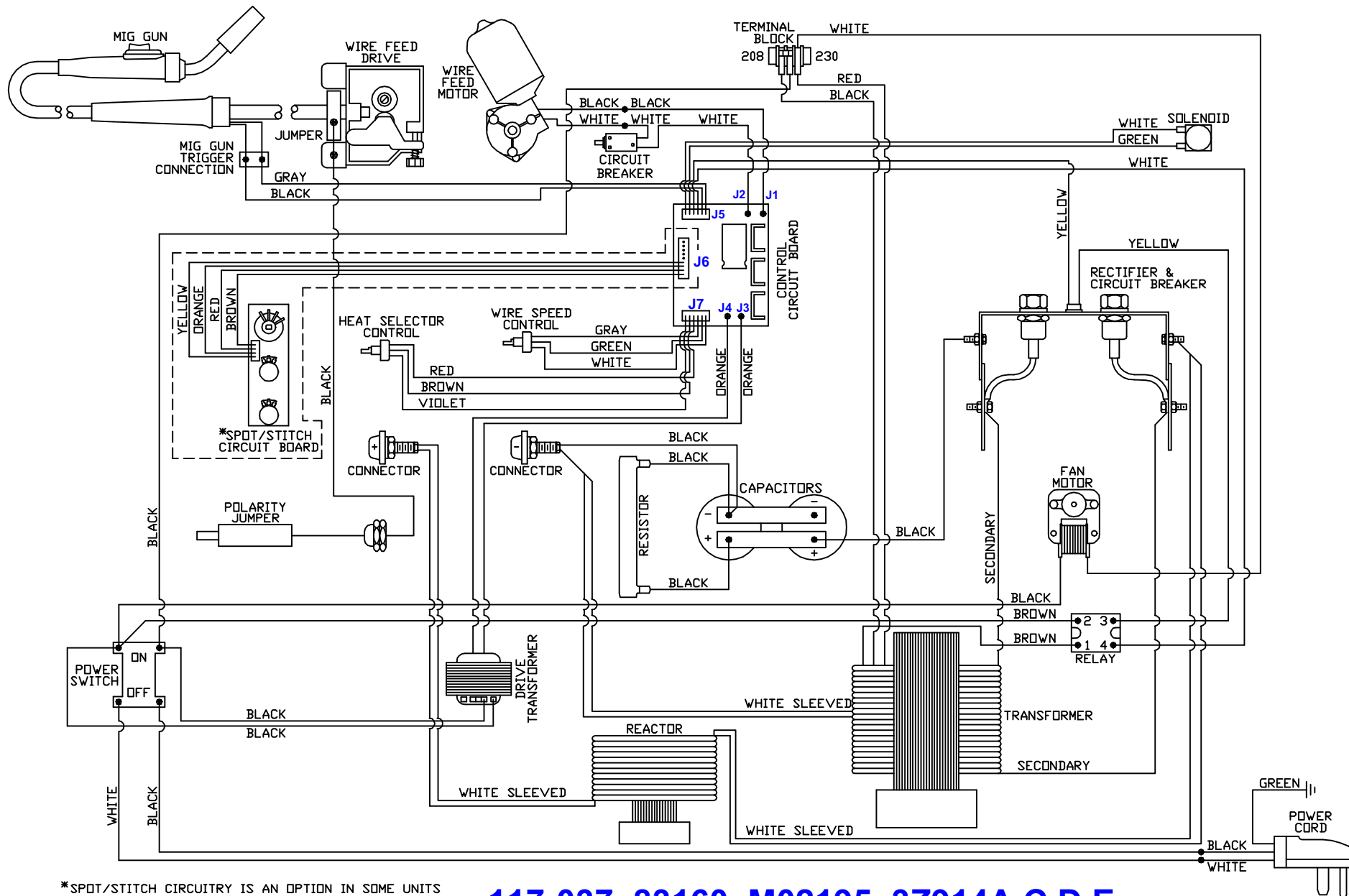
| Item | Lincoln Stock # | Customer #         | Description               |
|------|-----------------|--------------------|---------------------------|
| 34   |                 | 860-670-888        | Reactor coil              |
| 35   |                 | 410-806-060        | Front panel               |
| 36   |                 | <b>246-095-000</b> | Knob, 1.5"                |
| 37   | 880-114-666     | 880-114-666        | Spot-Stitch circuit board |
| 38   |                 | 246-094-000        | Knob, 1"                  |
| 39   | 312-045-666     | 312-046-666        | Receptace, panel mount    |
| 40   |                 | 238-160-666        | Polarity jumper           |

## Not Shown

|    |                    |                                           |                              |
|----|--------------------|-------------------------------------------|------------------------------|
| 41 |                    | 860-744-000                               | Gun wiring harness (male)    |
| 42 | <b>238-393-000</b> | <b>4365</b>                               | <b>Mig gun assembly, 12'</b> |
| 43 | <b>238-296-666</b> |                                           | <b>Mig gun assembly, 15'</b> |
| 44 | S11604-51          | 084-019-000                               | Allen set screw #8-32 X 1/8" |
| 45 |                    | 334-254-000<br>(90206)                    | Handle Case                  |
| 46 | 334-252-000        |                                           | Conductor Tube               |
| 47 |                    | 334-302-000<br>(90035)                    | Handle Cap                   |
| 48 | KP21T-50           | 43480, 334-203-300,<br>KP1942-1, M15578   | Steel welding nozzle         |
|    | KP21T-62           | 43300, 334-210-300,<br>KP1942-3           | Aluminum welding nozzle      |
| 49 | KP21-62-FAS        | 43290, 334-211-300,<br>KP1956-1, M15577   | Spot welding nozzle          |
| 50 | KP1939-1, KH726    |                                           | Flux Core Nozzle             |
| 51 | KP11-25, KH710     | 43090, 334-159-300,<br>KP2039-1B1, M15522 | 0.025 Contact Tips           |
| 52 | KP11-30, KH711     | 43100, 334-160-300,<br>KP2039-2B1, M15523 | 0.030 Contact Tips           |
| 53 | KP11-35, KH712     | 43110, 334-161-300,<br>KP2039-3B1, M15524 | 0.035 Contact Tips           |
| 54 | KP11-45, KH713     | 43390, 334-202-300,<br>KP2039-4B1, M57242 | 0.045 Contact Tips           |
| 55 | 334-363-000        | 90708                                     | Gas Diffuser                 |
| 56 | 334-255-000        | 96KL-R                                    | Trigger                      |
| 57 | KP44-3545-15       | 334-375-000,<br>4370,KP1933-1             | Steel Liner                  |
| 58 | KP42N-3545-15      | 334-376-000,<br>4368,KP1955-1             | Teflon Liner                 |
| 59 |                    | <b>238-009-500</b> , 4007                 | 12', #3 Ground cable w/plug  |
| 60 | 239-292-666        | 41001                                     | Ground clamp only            |
| 61 |                    | <b>246-103-000</b>                        | Hood handle                  |
| 62 |                    | 410-391-010                               | Right side panel             |
| 63 |                    | 410-392-010                               | Left side panel              |
| 64 |                    | 410-390-010                               | Hood                         |
| 65 | 334-303-001        | 334-286-666                               | Gas Regulator                |
| 66 | 059-245-666        |                                           | Gas Hose                     |

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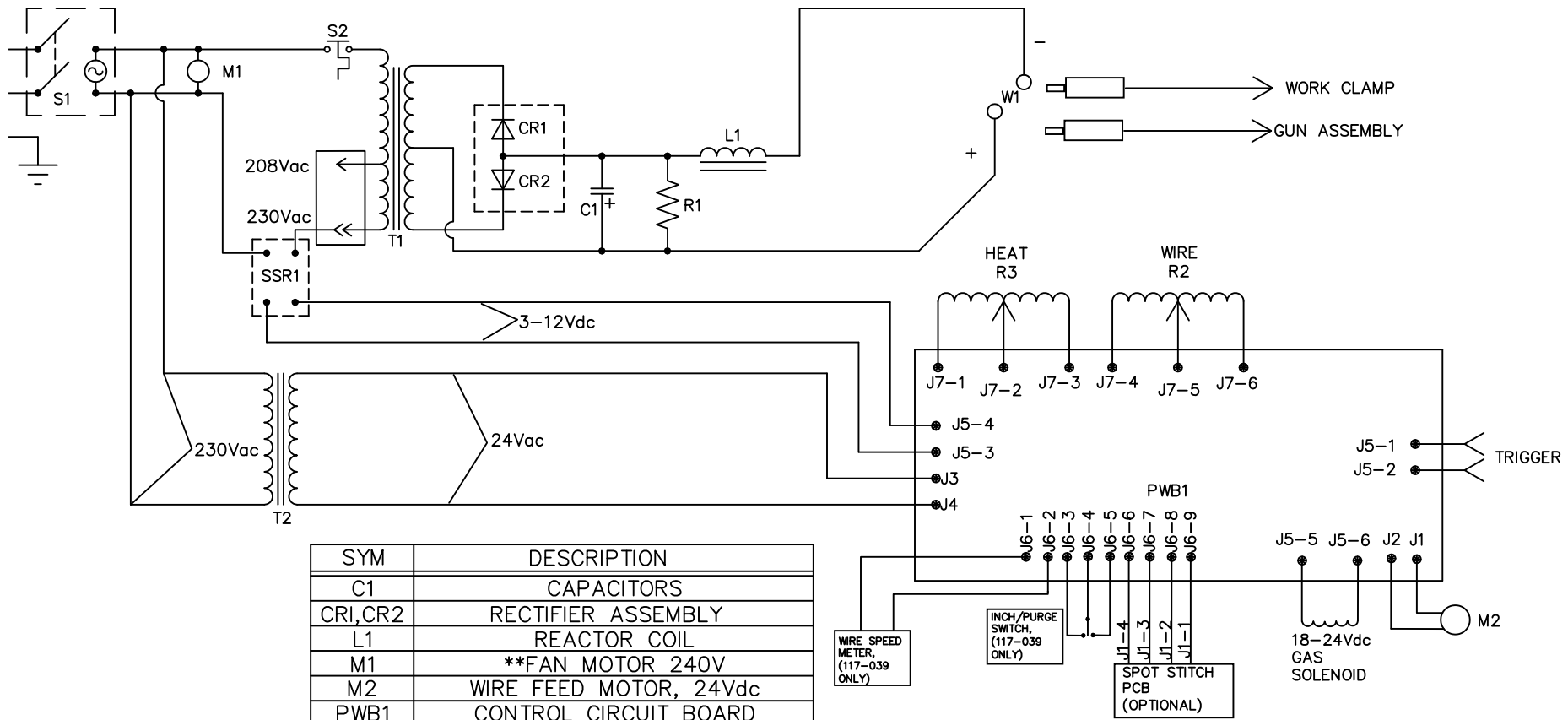
| Rated Output | Voltage Settings | Agency Listing | Max Output |
|--------------|------------------|----------------|------------|
| 160 amps     | Infinite         | CSA            | 200 amps   |



\*SPOT/STITCH CIRCUITRY IS AN OPTION IN SOME UNITS

117-037, 83160, M02195, 3Z914A,C,D,E

230Vac 60HZ  
SINGLE PHASE



| SYM     | DESCRIPTION                   |
|---------|-------------------------------|
| C1      | CAPACITORS                    |
| CR1,CR2 | RECTIFIER ASSEMBLY            |
| L1      | REACTOR COIL                  |
| M1      | **FAN MOTOR 240V              |
| M2      | WIRE FEED MOTOR, 24Vdc        |
| PWB1    | CONTROL CIRCUIT BOARD         |
| R1      | RESISTOR 25 OHM 50W           |
| R2      | WIRE SPEED POT., 5K, 1/2 WATT |
| R3      | HEAT POT., 5K, 1/2 WATT       |
| S1      | POWER SWITCH                  |
| S2      | THERMAL BREAKER, L-175        |
| SSR1    | SOLID STATE RELAY             |
| T1      | MAIN TRANSFORMER              |
| T2      | CONTROL TRANSFORMER           |
| W1      | POLARITY JACKS                |

|         |
|---------|
| 117-044 |
| 117-042 |
| 117-039 |
| 117-037 |
| 117-035 |
| MODELS  |

117-039,117-044

\*\*117-039,044 HAVE NO FAN MOTOR

**Fan orientation for 160 & 225 amp Migs,  
110-119 & 110-178 Arc Welders**

**Fan Blade - 316-010-000**

**Fan Motor - 216-099-666**

YELLOW HARNESS LEADS 2

