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● SWITCH-WIRING GUIDE FOR THE PFM900

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DIRECTORY of WIRING VARIATIONS

- VARIATION #1:** Brook Hansen Motor .75hp 115v, 50-430 harness, 50-400 computer has no IEC connector.
- VARIATION #2:** Same as Variation #1 with an additional Black Inline Fuse.
- VARIATION #3:** Brook Hansen Motor .75hp 115v, 50-400 computer WITH IEC connector; 50-596 "Y" power cord.
- VARIATION #4:** Brook Hansen Motor .95hp 115v; both motor and computer have IEC connectors.
- VARIATION #5:** Changing over from a Brook Hansen .75hp 115v to a .95hp 115v. The 50-400 computer has no IEC connector.

**Contact the Pro-Cut Service Department with
any questions: 800-543-6618.**

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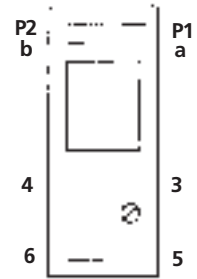
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VARIATION #1

MOTOR: Brook Hansen .75 hp 115 v (50-634)
SWITCH: 10 OR 12 amp (50-558 - See Diagram A, right)

A - 10 or 12 amp switch (50-558)

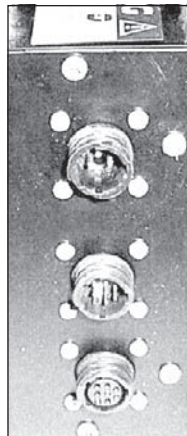


DESCRIPTION

COMPUTER BOX: Has three connectors of the same style (50-400, no IEC — see Diagram B below)
POWER TO COMPUTER: Power is supplied through top plug/harness (50-430), which contains a Thin Black, Thin Red, and Ground.

TERMINALS

- P1:** Thick White wire from power cord coupled with Thin Black wire to computer. These two wires are connected together as well as plugged onto terminal P-1.
- P2:** Thick Black wire from power cord coupled with Thick Red wire from the micro switch and Thin Red wire to the computer. These three wires are connected together and are plugged onto terminal P-2.
- b:** Short Thick Blue wire, connected to a Thick Black wire from the micro switch. The Thick blue wire is connected to terminal B.
- 3:** Thick Black wires (2), from the motor crimped together connected to terminal 3.
- 6:** Thick Light Blue wires from the capacitors, crimped together, connected to a single Thick Black wire from the motor connected to terminal 6.
- Ground:** Thick Green from the power cord and Thick Striped Green from the micro switch attached to ground, (lower left side of electrical box).



◀ B - Computer box (50-400 no IEC)



◀ C - Power cord

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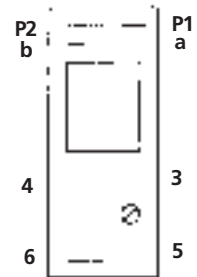
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VARIATION #2

- MOTOR:** Brook Hansen .75 hp 115 v (50-634)
- SWITCH:** 10 OR 12 amp (50-558 - See Diagram A, right)
- BLACK INLINE FUSE HOLDER** in electrical box — See Diagram D below
- 125-milliamp 250-v slow blow FUSE** (50-403)

A - 10 or 12 amp switch (50-558)

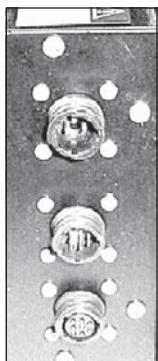


DESCRIPTION

- COMPUTER BOX:** Has three connectors of the same style (50-400, no IEC — see Diagram B below)
- POWER TO COMPUTER:** Power is supplied through top plug/harness (50-430), which contains a Thin Black, Thin Red, and Ground.

TERMINALS

- P1:** Thick White wire from power cord coupled with Thin Black wire to computer. These two wires are connected together as well as plugged onto terminal P-1.
- P2:** Thick Black wire from power cord coupled with Thick Red wire from the micro switch and Thin brown wire that leads to a black Inline Fuse. The Thin Red wire from the Inline Fuse Holder connects to the Thin Red wire that leads to the computer.
- b:** Short Thick Blue wire, connected to a Thick Black wire from the micro switch. The Thick Blue wire is connected to terminal b.
- 3:** Thick Black wires (2), from the motor crimped together connected to terminal 3.
- 6:** Thick Light Blue wires from the capacitors, crimped together, connected to a single Thick Black wire from the motor connected to terminal 6.
- Ground:** Thick Green from the power cord and Thick Striped Green from the micro switch attached to ground, (lower left side of electrical box.)



◀ B - Computer box (50-400 no IEC)



◀ C - Power cord



▲ D - Black Inline Fuse Holder



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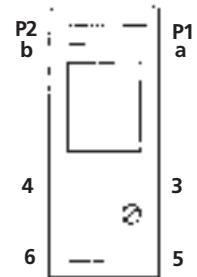


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VARIATION #3

A - 10 or 12 amp switch (50-558)



MOTOR: Brook Hansen .75 hp 115 v (50-634)
SWITCH: 10 OR 12 amp (50-558 - See Diagram A, right)

DESCRIPTION

- COMPUTER BOX:** Has IEC connector (50-400, with IEC — see Diagram B below). The plugs for the Hall Effect Sensor and Solenoid are the same.
- POWER TO COMPUTER:** Main power cord is in “Y” configuration (50-596 — See Diagram C below). One side has molded plug, the other is exposed wire. Molded plug connects to IEC connector on computer box. The exposed wires are hard-wired onto the on-off switch inside the electrical box of a .75 motor.

TERMINALS

- P1:** Thick White wire from power cord is plugged onto terminal P-1.
- P2:** Thick Black wire from power cord coupled with Thick Red wire from the micro switch. These two wires are connected together and are plugged onto terminal P-2.
- b:** Short Thick Blue wire, connected to Thick Black wire from the micro switch. The Thick Blue wire is connected to terminal b.
- 3:** Thick Black wires (2), from the motor crimped together connected to terminal 3.
- 6:** Thick Light Blue wires from the capacitors, crimped together, connected to a single Thick Black wire from the motor connected to terminal 6.
- Ground:** Thick Green wire from power cord and Thick Striped Green wire from the micro switch attached to ground, (lower left side of electrical box).



◀ B - Computer box with IEC connector (50-400 with IEC)



◀ C - Power cord (50-596)

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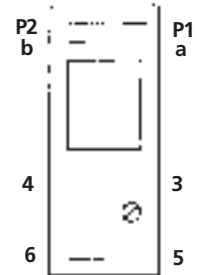
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VARIATION #4

A - 10 or 12 amp switch (50-558)

MOTOR: Brook Hansen .95 hp 115 v (50-534)
SWITCH: 12 amp switch (50-558 - See Diagram A, right)

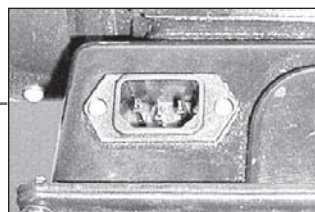
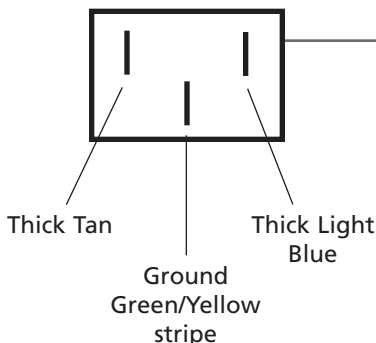


DESCRIPTION

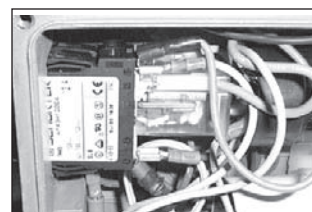
COMPUTER BOX: The Computer and the Motor have an IEC connector (see Diagrams B and C below).
POWER TO COMPUTER: Power cord (50-597) is in a "Y" configuration with a **molded plug on both ends** (see Diagram D below). This variation applies to the .95hp motor application. The switch is rated at 12 amps.

TERMINALS

- P1:** Thick Light Blue wire from the IEC connector is plugged onto terminal P-1.
- P2:** Thick Tan wire from the IEC connector coupled with Thick Red wire from the micro switch. These two wires are connected together and are plugged onto terminal P-2.
- b:** Short Thick Blue wire, connected to a Thick Black wire from the micro switch. The Thick Blue wire is connected to terminal b.
- 3:** Thick Black wires (2), from the motor crimped together connected to terminal 3.
- 6:** Thick Light Blue wires from the capacitors, crimped together, connected to a single Thick Black wire from the motor connected to terminal 6.
- Ground:** Thick Green/Yellow Stripe wire from the IEC connector and Thick Striped Green wire from the micro switch attached to ground, (lower left side of electrical box).



▲ B - Computer with IEC connector (50-534)



▲ C - Brook Hansen Motor with IEC connector (50-534)



▲ D - Power cord: "Y" configuration with molded plug on both ends (50-597)

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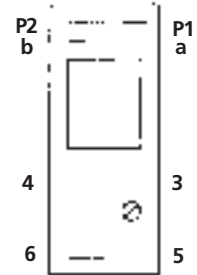
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VARIATION #5

MOTOR: Brook Hansen .95 hp 115 v (50-534)
SWITCH: 12 amp switch (50-558 - See Diagram A, right)

A - 10 or 12 amp switch (50-558)

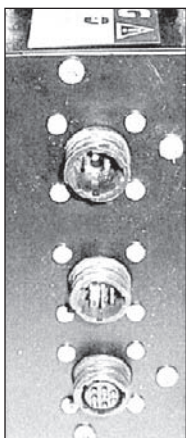


DESCRIPTION

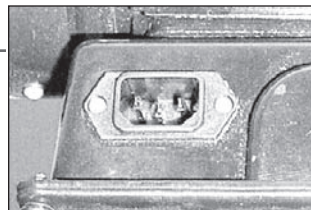
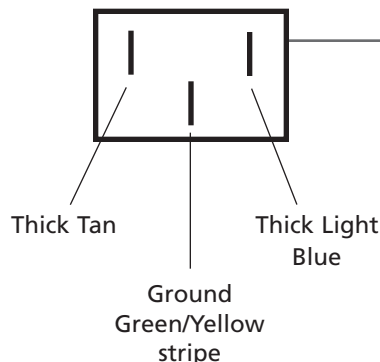
COMPUTER BOX: Has three connectors of the same style (50-400, no IEC - see Diagram B below)
POWER TO COMPUTER: Power is supplied through the top plug/harness (50-430), which contains a Thin Black, Thin Red, and Ground. Power cord (50-598) is a single molded plug (see Diagram B below), which connects to an IEC connector on the electrical box (see Diagram C below) of the motor.

TERMINALS

- P1:** Thick Light Blue wire from the IEC connector coupled with Thin Black wire to computer. These two wires are connected together as well as plugged onto terminal P-1.
- P2:** Thick Tan wire from the IEC connector coupled with Thick Red wire from the micro switch and Thin Red wire to the computer. These three wires are connected together and are plugged onto terminal P-2.
- b:** Short Thick Blue wire, connected to a Thick Black wire from the micro switch. The Thick Blue wire is connected to terminal b.
- 3:** Thick Black wires (2), from the motor crimped together connected to terminal 3.
- 6:** Thick Light Blue wires from the capacitors, crimped together, connected to a single Thick Black wire from the motor connected to terminal 6.



◀ B - Computer box (50-400 no IEC)



▲ C - Electrical box with IEC connector on .95 motor (50-534)



▲ D - Power cord with single molded plug (50-598)

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