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P/N 011200
INSTRUCTIONS

COLOR PRINTING IS RECOMMENDED

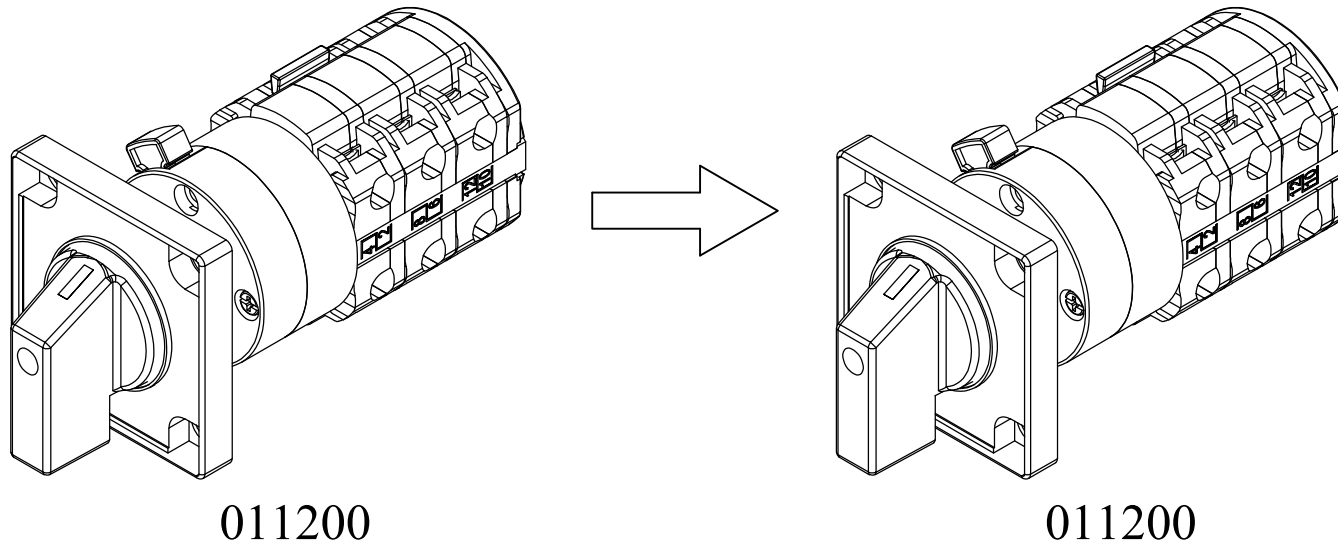
50514-EC, 5014-ET,
50514-CM ELEC, 5014-TM ELEC

MAY 2022

011200 Replacement Instructions

The following instructions describe how to replace a Kraus & Neimer cam switch with a direct replacement cam switch on the machine(s) listed below. For machines built prior to April 2022 with Klockner Moeller cam switches, see Page 5. Please follow the instructions specific to the switch being replaced.

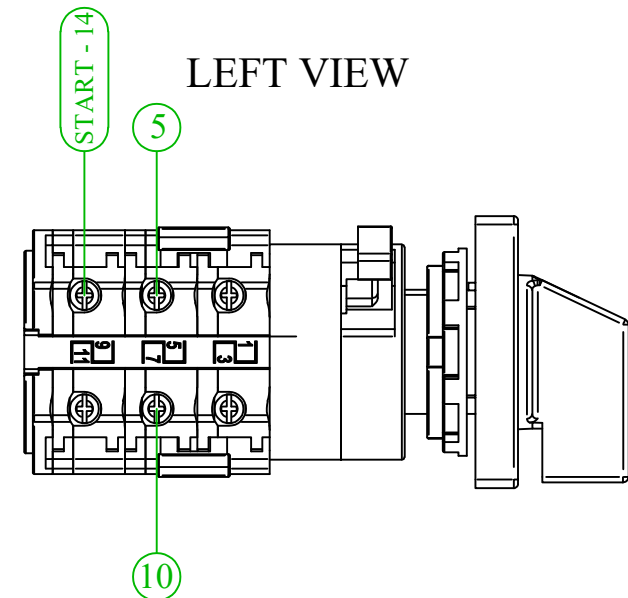
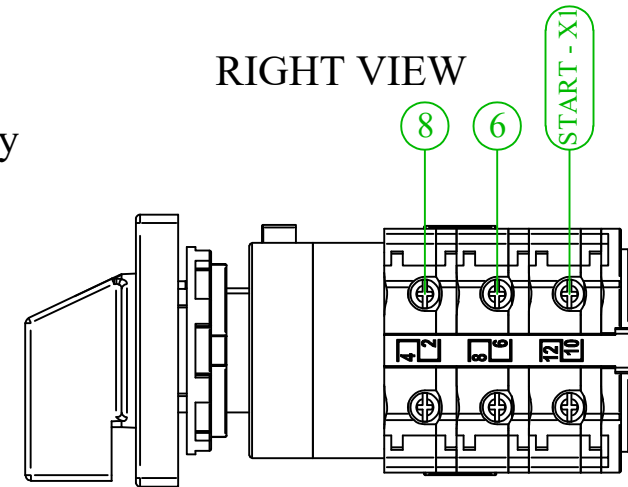
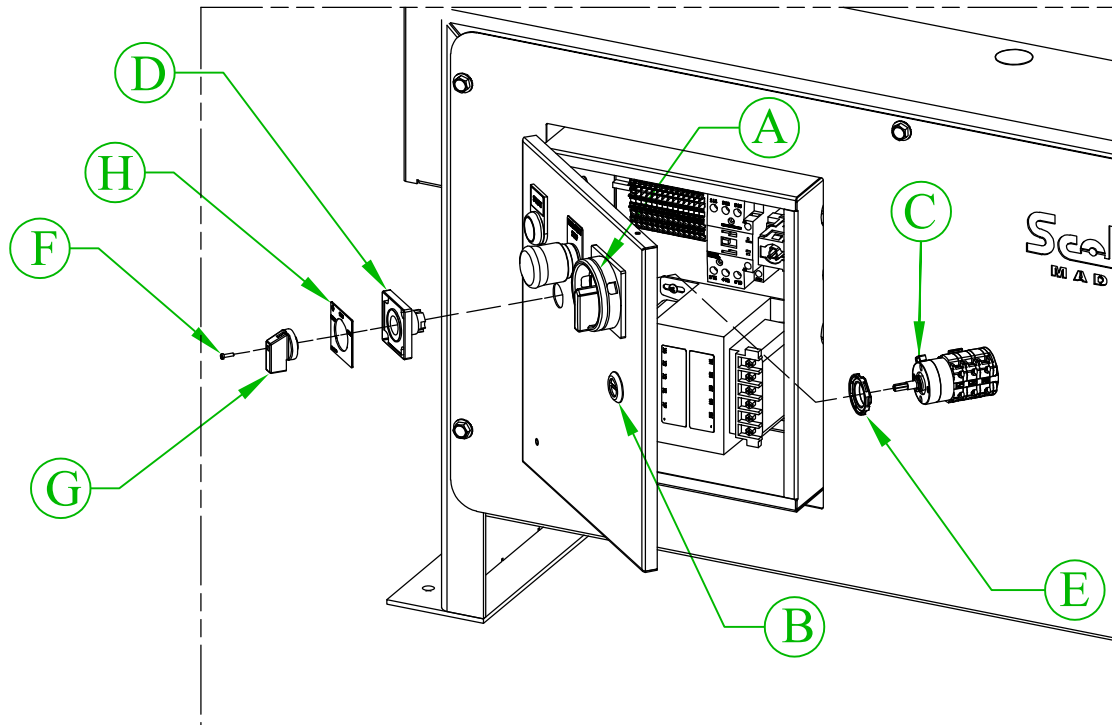
DISCONNECT POWER TO THE MACHINE BEFORE MODIFICATION.



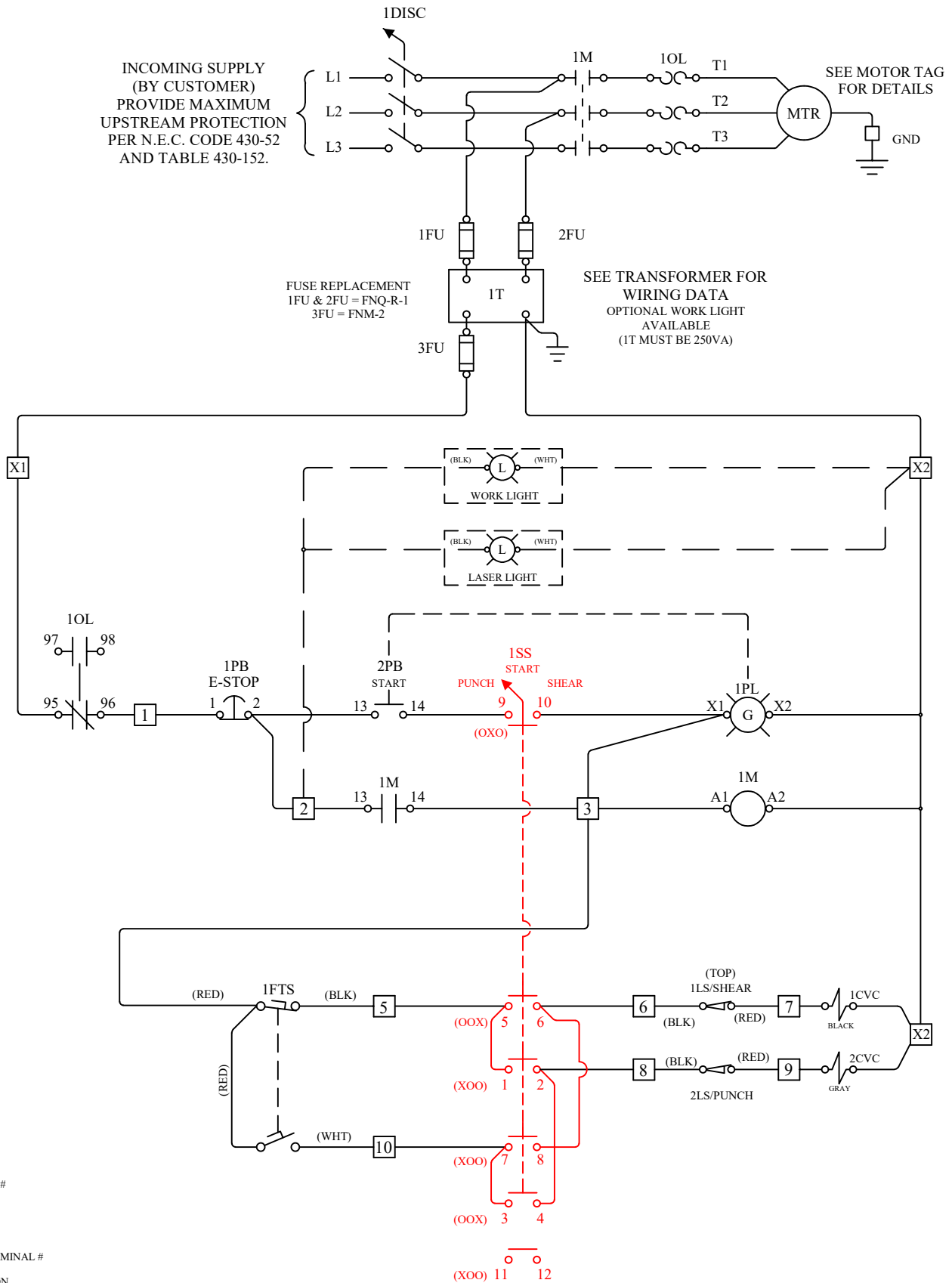
Applies to Serial Numbers:
50514-EC: 5100EC0422 & After
5014-ET: 2834ET0422 & After

Switch Removal

1. Turn the main power disconnect (A) to the OFF position. Open the panel door by turning the lock (B) counter-clockwise.
2. Press the red release handle (C) of the switch and disconnect the switch from the legend holder assembly (D).
3. Carefully pull the switch back to allow access to the legend holder assembly from the rear.
4. Remove the old legend holder assembly from the panel by unscrewing the nut (E) from the backside.
5. Install new legend holder assembly by reversing previous instructions.
6. Remove the screw (F) retaining the knob. Remove knob (G).
7. Install the legend plate (H) sold separately (P/N 011210). Re-install knob.
8. The switch will contain a variety of red wires that have printed number labels. Note the location of each wire and remove.

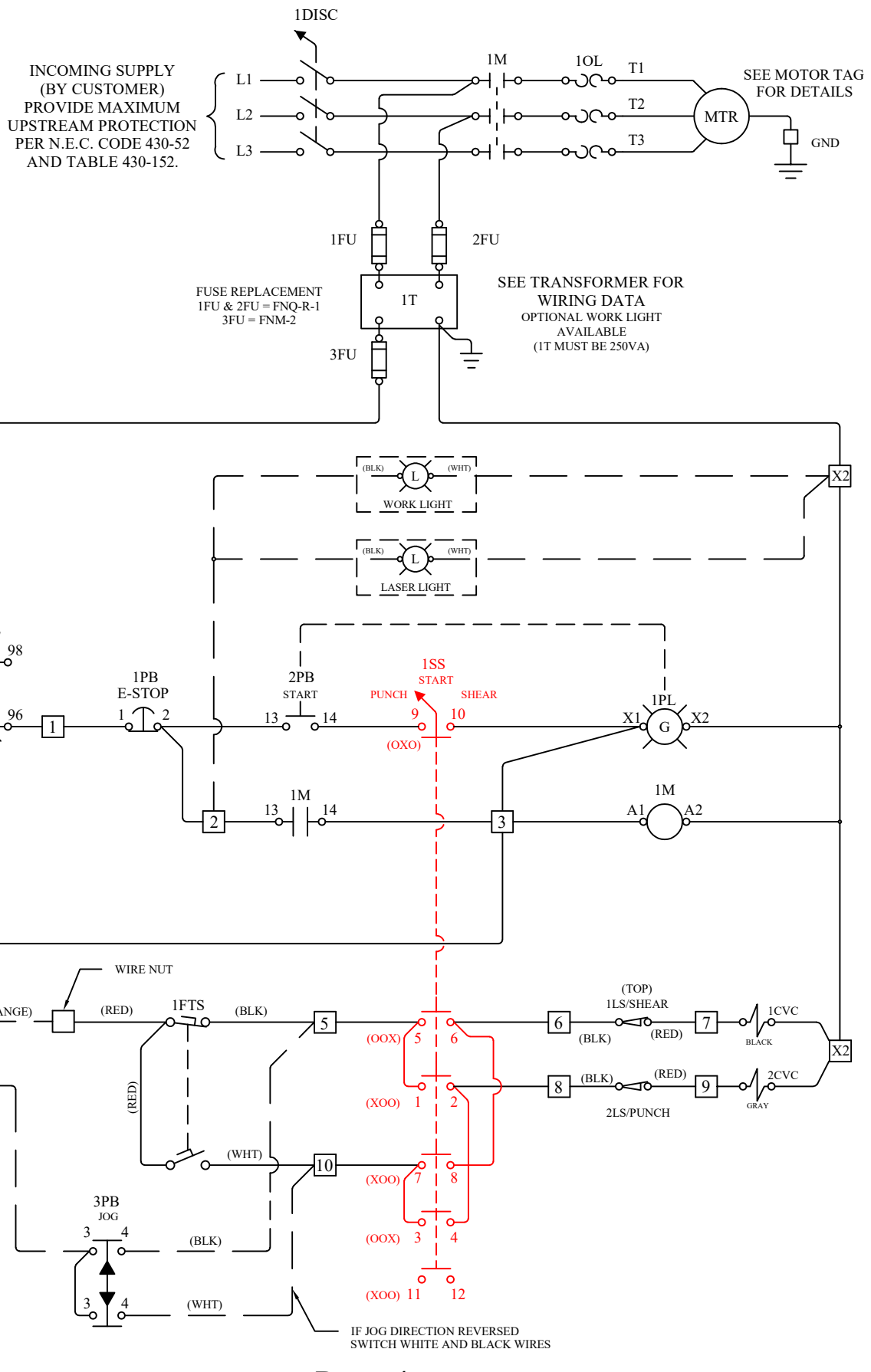


Wiring Diagram



- 1 - TERMINAL STRIP #
- (2) - WIRE #
- BLK - WIRE COLOR
- 3 - COMPONENT TERMINAL #
- (XO) - NORMAL POSITION
- OPTIONAL EQUIPMENT
- COMPONENT

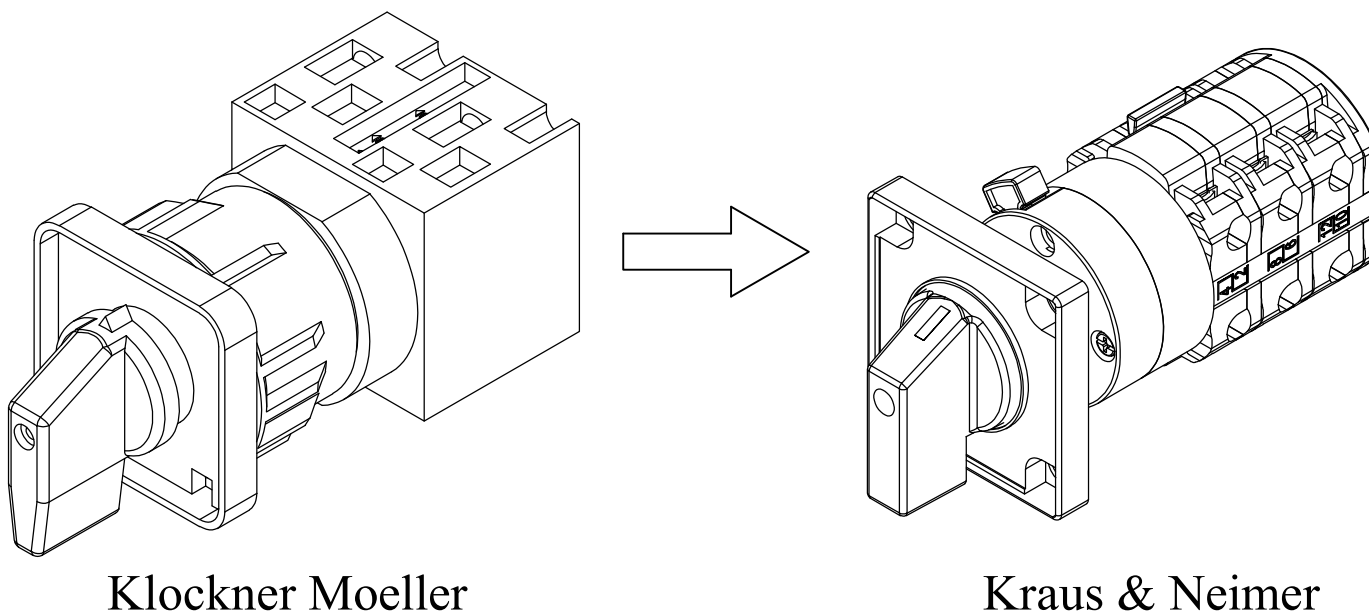
Wiring Diagram w/ Jog



011200 Retrofit Instructions

The following instructions describe how to replace a Klockner Moeller cam switch (left) with a Kraus & Neimer cam switch (right) on the machine(s) listed below. Please follow the instructions specific to the switch being replaced.

DISCONNECT POWER TO THE MACHINE BEFORE MODIFICATION.



Applies to Serial Numbers:

50514-EC: 5099EC & Prior

5014-ET: 2833ET & Prior

50514-CM ELEC: 2644KE-3740KE

5014-TM ELEC: 2062KE-2311KE

Switch Differences

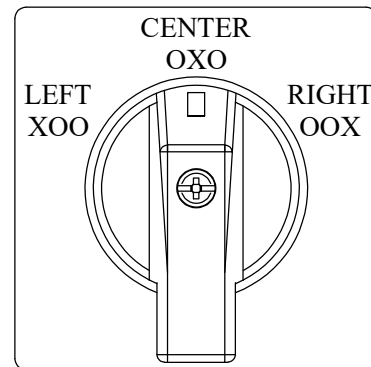
The key difference between the Klockner Moeller switches (011868) and the Kraus & Neimer switches (011200) are the contact numbers and internal jumpers.

The charts below show the difference in contact closures and jumpers.

KLOCKNER MOELLER

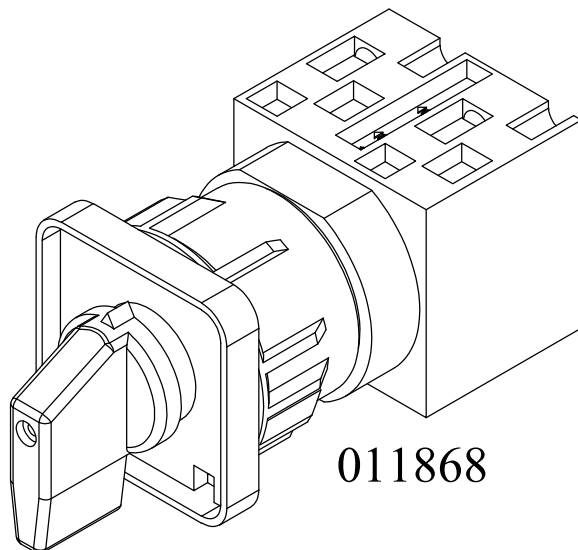
CONTACT	CLOSURE
1 - 2	XOO
3 - 4	XOO
5 - 6	OXO
7 - 8	OOX
9 - 10	OOX
11 - 12	N/A
REMOVABLE JUMPERS	1 - 7
	2 - 10
	3 - 9
	4 - 8

CLOSURES

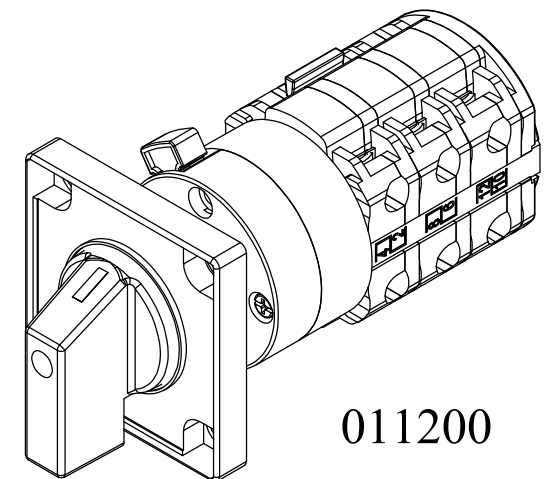


KRAUS & NEIMER

CONTACT	CLOSURE
1 - 2	XOO
3 - 4	OOX
5 - 6	OOX
7 - 8	XOO
9 - 10	OXO
11 - 12	XOO
PERMANENT JUMPERS	2 - 4
	6 - 8
REMOVABLE JUMPERS	1 - 5
	3 - 7



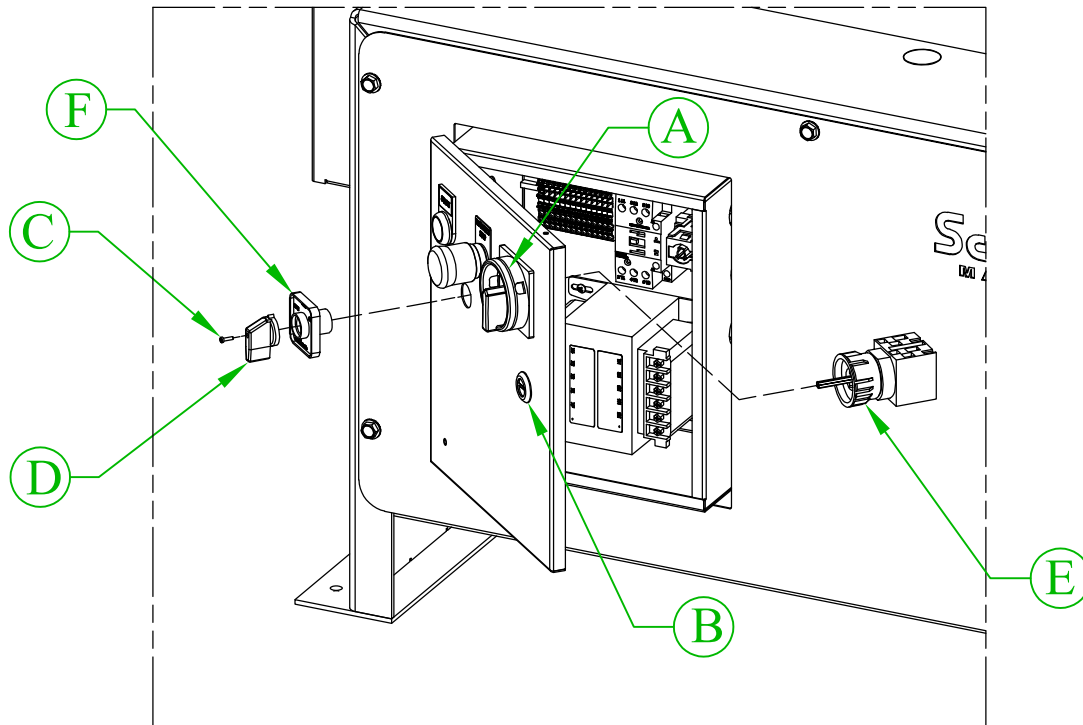
011868



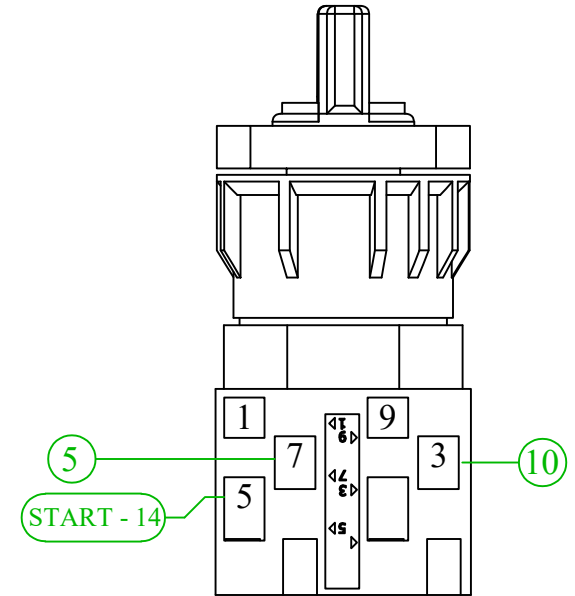
011200

Switch Removal

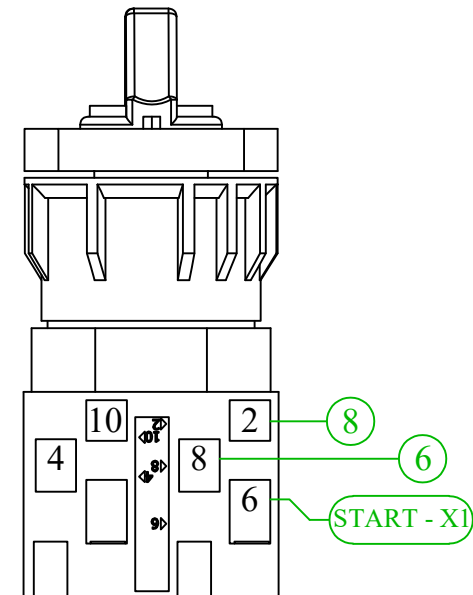
1. Turn the main power disconnect (A) to the OFF position. Open the panel door by turning the lock (B) counter-clockwise.
2. Loosen the screw (C) retaining the knob. Remove knob (D).
3. Unscrew the large nut (E) of the cam switch from the back side of the panel.
4. Remove the legend plate holder (F) from the panel.
5. Pull the switch back to allow access to the wires.
6. The locations of each wire are shown to the right.
 - 6.1. The numbers indicate the final location on terminal strip.
7. Note the location of each wire and remove.
 - 7.1. If the wire locations differ from what is listed to the right, see [Page 5](#) for more details.



BOTTOM VIEW

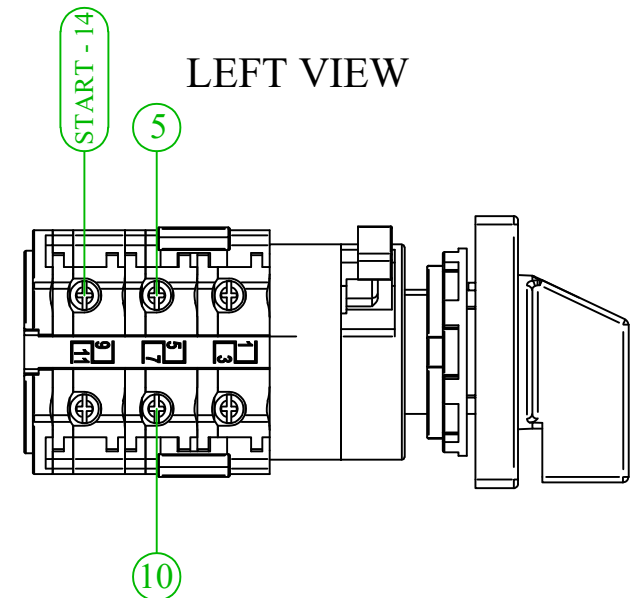
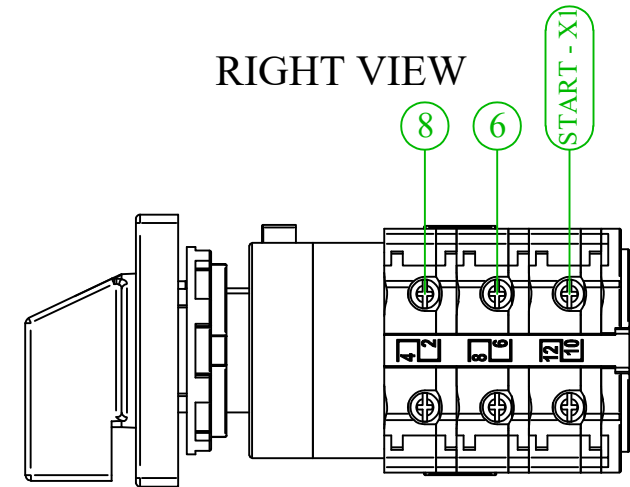
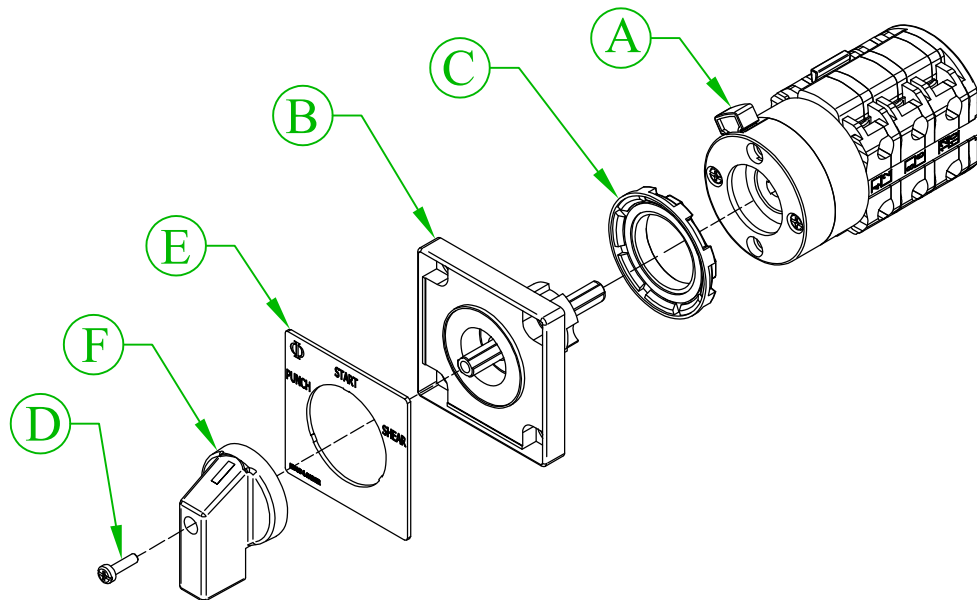


TOP VIEW



Switch Retrofit

1. MAKE SURE TO LEAVE ALL JUMPERS IN PLACE.
2. Press the red release handle (A) on the new switch to separate the knob/legend holder from the switch.
3. Install the legend holder (B) into the panel and fasten with nut (C) from backside.
4. Remove the screw (D) retaining the knob. Remove knob (F).
5. Install the legend plate (E) sold separately (P/N 011210). Re-install knob.
6. Wire the new switch as shown to the right. NOTE: THE NUMBERS ON THE NEW SWITCH DO NOT CORRESPOND WITH THE OLD SWITCH.
 - 6.1. If the wire locations differed from what was shown on the previous page, see [Page 5](#).
7. Align the switch with the stem of the knob, and press the switch onto the knob assembly. The arrow on the back of the switch will be pointing upwards. When aligned, the switch will snap into place.



Switch Retrofit Cont.

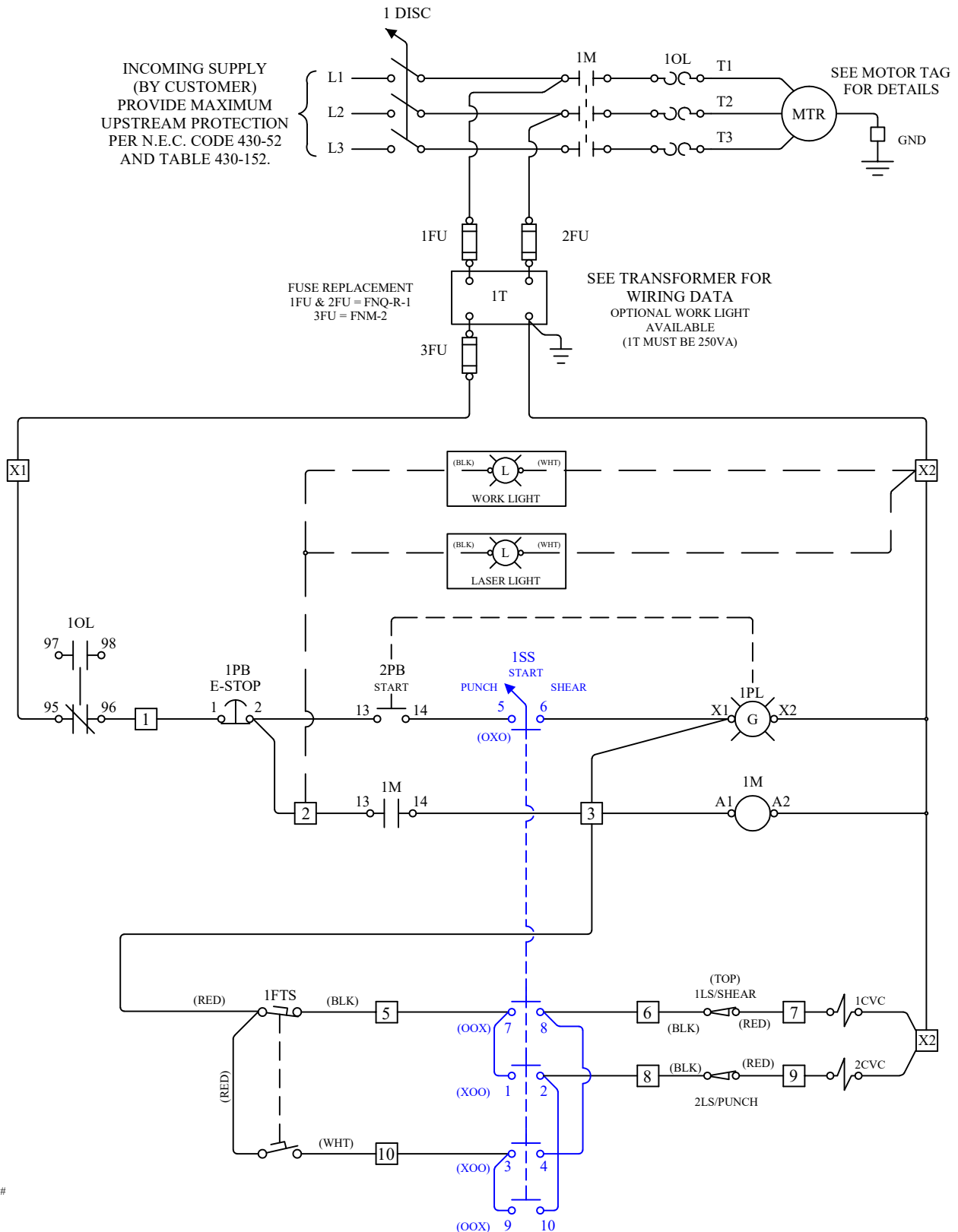
Depending on the age of the machine, the wire locations may differ from what is shown on Page 3. Some machines may have more wires going to some terminals. Below is a chart listing the old Klockner Moeller terminal numbers compared to the new Kraus & Neimer terminal numbers, along with the description of potential wire connections.

Switch terminals not listed below do not have a wired connection, but may still contain a jumper. Do not remove jumpers.

See electrical schematics on the following pages.

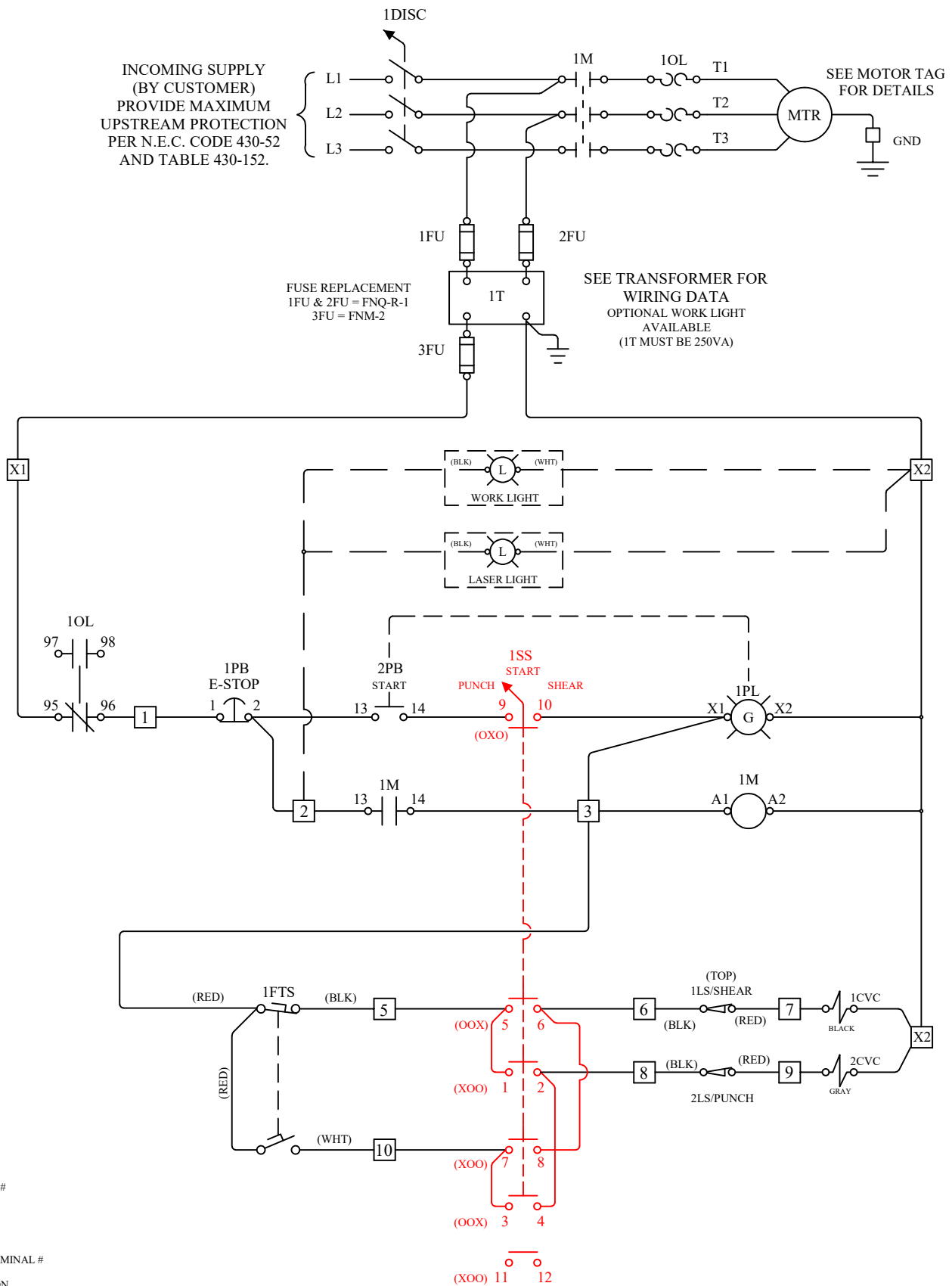
WIRE CONNECTIONS	KLOCKNER	KRAUS
TO START BUTTON - 14	5	9
TO START BUTTON - X1 TO TERMINAL STRIP - 3 TO MOTOR CONTACTOR - 14 TO MOTOR CONTACTOR - A1	6	10
TO TERMINAL STRIP - 5	7	5
TO TERMINAL STRIP - 6	8	6
TO TERMINAL STRIP - 8	2	2
TO TERMINAL STRIP - 10	3	7

Original Diagram

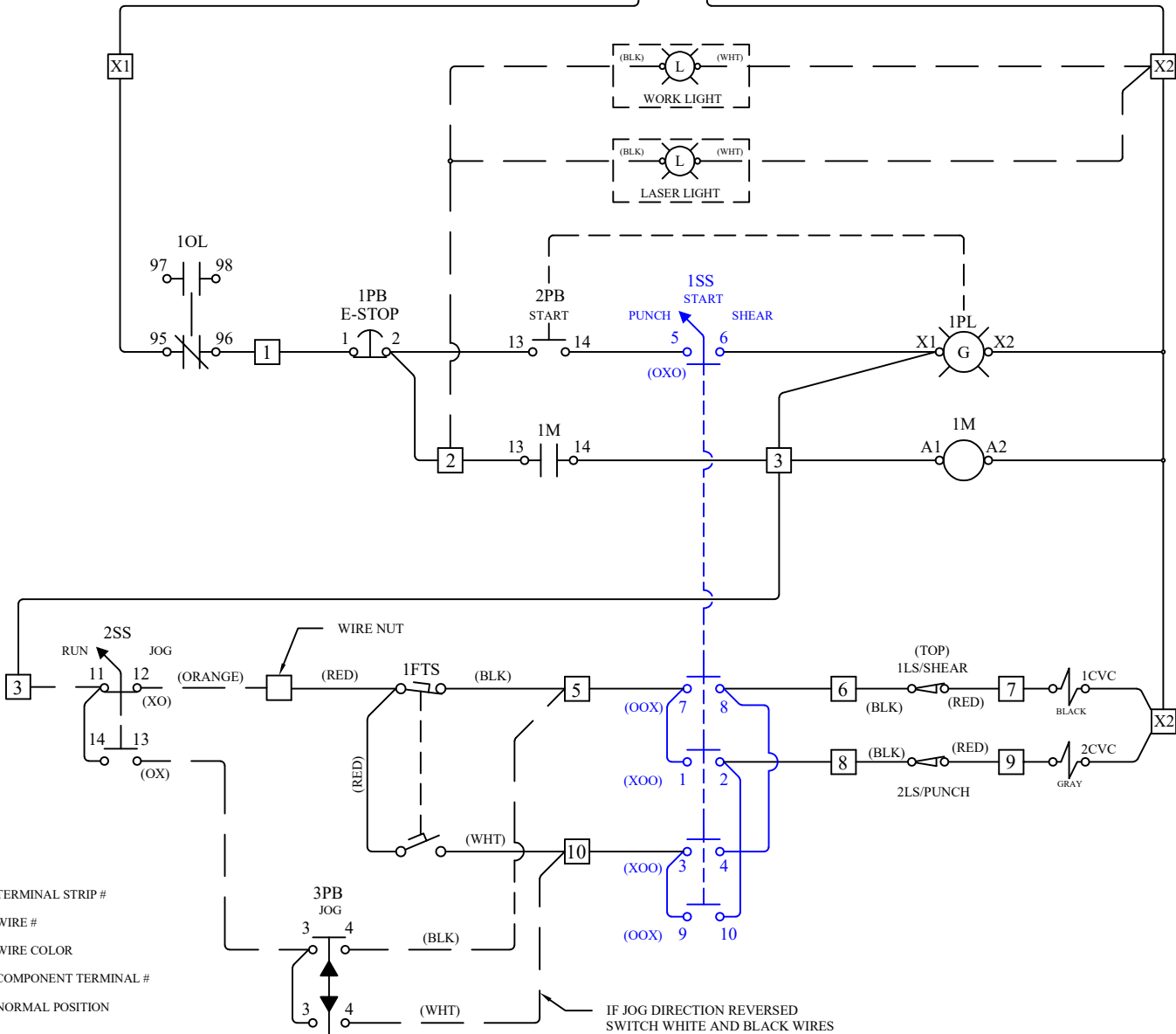
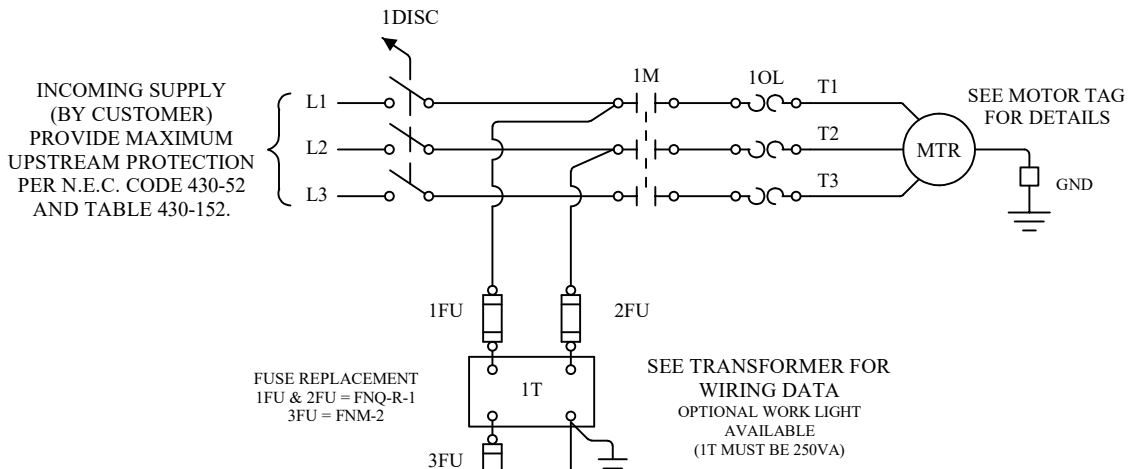


- 1 - TERMINAL STRIP #
- (2) - WIRE #
- BLK - WIRE COLOR
- 3 - COMPONENT TERMINAL #
- (XO) - NORMAL POSITION
- OPTIONAL EQUIPMENT
- COMPONENT

Switch Retrofit Diagram



Original Diagram w/ Jog



- 1 - TERMINAL STRIP #
- (2) - WIRE #
- BLK - WIRE COLOR
- 3 - COMPONENT TERMINAL #
- (XO) - NORMAL POSITION
- OPTIONAL EQUIPMENT
- COMPONENT

Switch Retrofit Diagram w/ Jog

