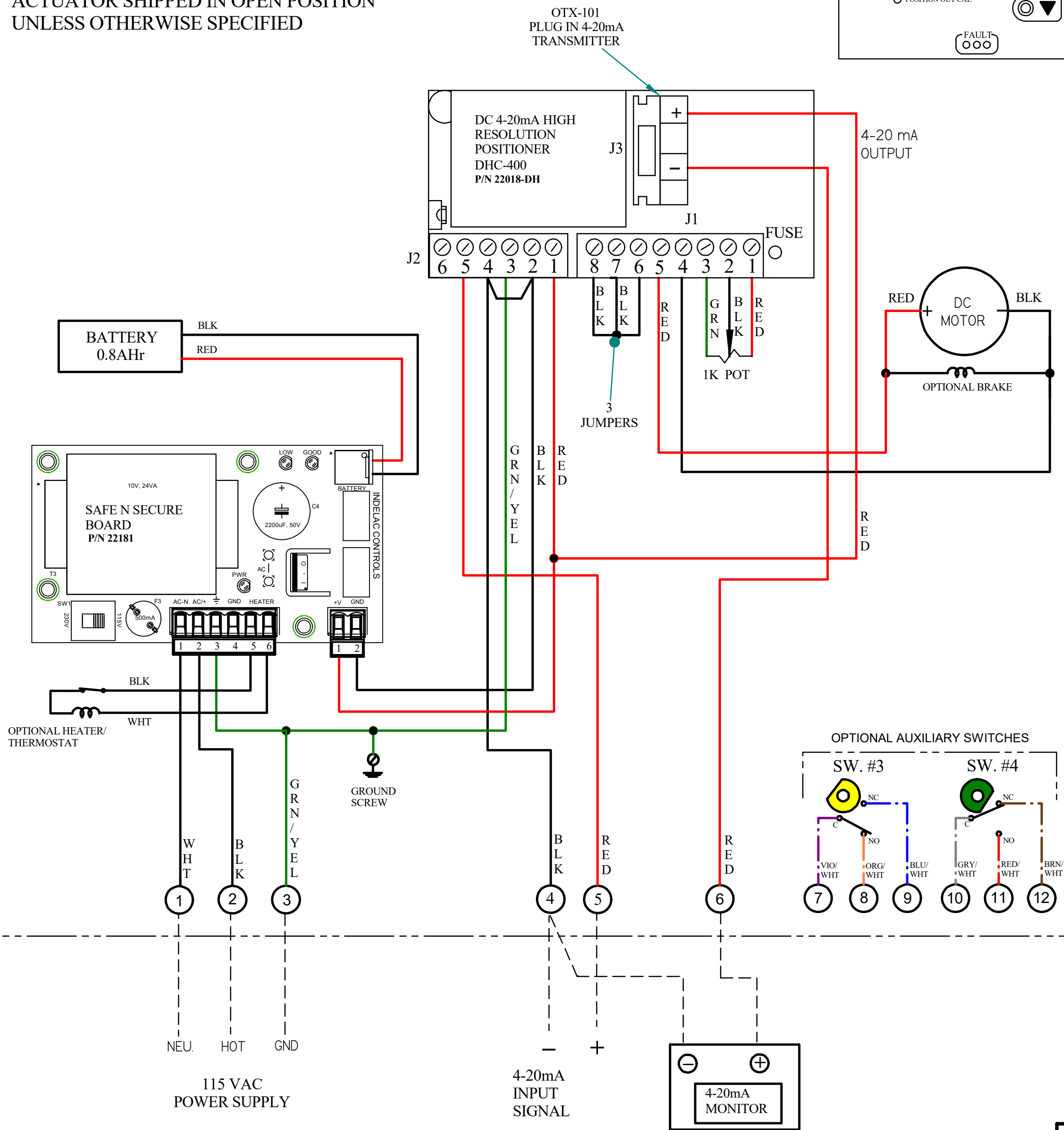
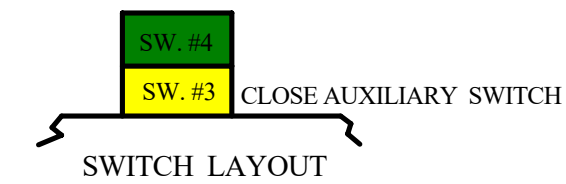


ACTUATOR SHIPPED IN OPEN POSITION
UNLESS OTHERWISE SPECIFIED



REV	DESCRIPTION	DATE	BY
1	ADDED JUMPER FROM TERM. 2 TO 4 FOR TRANSMITTER	21DEC17	WJR
2	REWIRRED TRANSMITTER - "+" TIED TO POS; "-" TO OUT	26APR18	WJR
3	ADD LATEST VER OF S&S BOARD & AND WIRING MODS	18SEPT24	DJB
4	NEW BACKGROUND, LOGO & COMPONENT P/Ns	03JUN25	DJB



NOTE:

ACTUATOR SHIPPED IN OPEN POSITION, MAX INPUT REPRESENTS OPEN POSITION. DO NOT REMOVE J7 JUMPER AS IT IS FACTORY SET.

TO CALIBRATE THE POSITIONER BOARD:

THE MODE BUTTON SELECTS A FUNCTION AND THE INDICATOR FOR THAT SELECTED MODE TURNS ON STEADY. PUSHING THE MODE BUTTON SAVES ANY NEW SETTING OF THE CURRENT MODE BEFORE SWITCHING TO THE NEXT MODE. THE ADJUST UP AND ADJUST DOWN BUTTONS ARE USED TO MAKE ADJUSTMENTS TO THE CURRENT MODE.

1. Before applying power ensure that the actuator is properly mounted and wired.
2. Apply power to the actuator; there is no need for an input signal during calibration.
3. Push the mode button until the yellow "MANUAL/FB POT CAL" LED is illuminated.
NOTE: The LED may be flashing at different speeds through the next several steps.
4. Use the adjust up/down buttons to move the actuator to mid stroke.
5. If LED is solid move to step #7.
6. If LED is flashing, loosen the potentiometer gear on the actuator shaft and rotate the potentiometer gear until the LED is not flashing, this indicates the center of the potentiometer travel. Note that the LED will flash at a slower rate the farther away from the mid position it gets. Once the LED is on solid tighten the potentiometer gear on the actuator shaft.
7. Push the mode button until the "CLOSE" LED illuminates; use the adjust up/down buttons to drive the actuator to the desired close position.
8. Push the mode button until the "OPEN" LED illuminates; use the adjust up/down buttons to drive the actuator to the desired open position.
9. Push the mode button until "COMMAND TYPE" LED illuminates use the adjust up/down buttons to select the correct input signal (4-20mA, 1-5Vdc, 0-5Vdc, 0-10Vdc or digital). If 0-5Vdc or 0-10Vdc is selected, the LOSS OF COMMAND feature is not available, so proceed to step 12.
10. Push the mode button until the "LOSS OF COMMAND" LED illuminates, this determines the position of the actuator upon loss of command signal. Use the adjust up/down buttons to select OPEN, CLOSE or stay in LAST position (both LEDs off).
11. Push mode button until "AUTO" LED illuminates, calibration is complete. If command signal wiring was not connected, do so now. If command wiring was connected, the actuator should have moved to that position.

SPECIFICATIONS:

DC MOTOR OUTPUTS:
Maximum locked rotor current = 60A
Full Load Amps = 10A

SAFE AND SECURE OPERATION:

ACTUATOR IS SHIPPED WITH THE BATTERY UNPLUGGED FROM THE BOARD. WHEN THE ACTUATOR IS INSTALLED, PLUG THE BATTERY INTO J1 ON THE SAFE AND SECURE BOARD.

ACTUATOR WILL RUN ON AC INPUT POWER USING 4 - 20mA COMMAND SIGNAL FROM CONTROL PANEL. IF COMMAND SIGNAL COMMUNICATION SHOULD BE BROKEN OR POWER TO ACTUATOR & COMMAND SIGNAL DROP OUT, BATTERY POWER WILL DRIVE THE ACTUATOR TO THE SELECTED FAIL POSITION AND REMAIN THERE UNTIL THE INPUT POWER COMES BACK ON.

IF INPUT POWER SHOULD FAIL, BUT THE COMMAND SIGNAL IS STILL PRESENT, THE ACTUATOR WILL CONTINUE TO RUN ON BATTERY POWER UNTIL BATTERY POWER DROPS BELOW 9 VDC.

FIELD WIRING

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	WIRING DIAGRAM, SAFE & SECURE AC ACTUATOR WITH HIGH RESOLUTION 4-20mA POSITIONER AND TRANSMITTER, WITH HTR & 2 AUXILIARY SWITCHES		
	WJR	07APR16	W160407