

REV	DESCRIPTION	DATE	BY
1	ADD LATEST VERSION OF SNS BD. & WIRING MODS	30AUG23	DJB
2	NEW BACKGROUND, LOGO & COMPONENT P/Ns	03JUN25	DJB

SW.#2 AUX. OPEN SWITCH
SW.#1 AUX. CLOSE SWITCH

INSTRUCTIONS:
This actuator has been set at the factory. If calibration is required after the valve is installed, it is not necessary to adjust the potentiometer or limit switches.

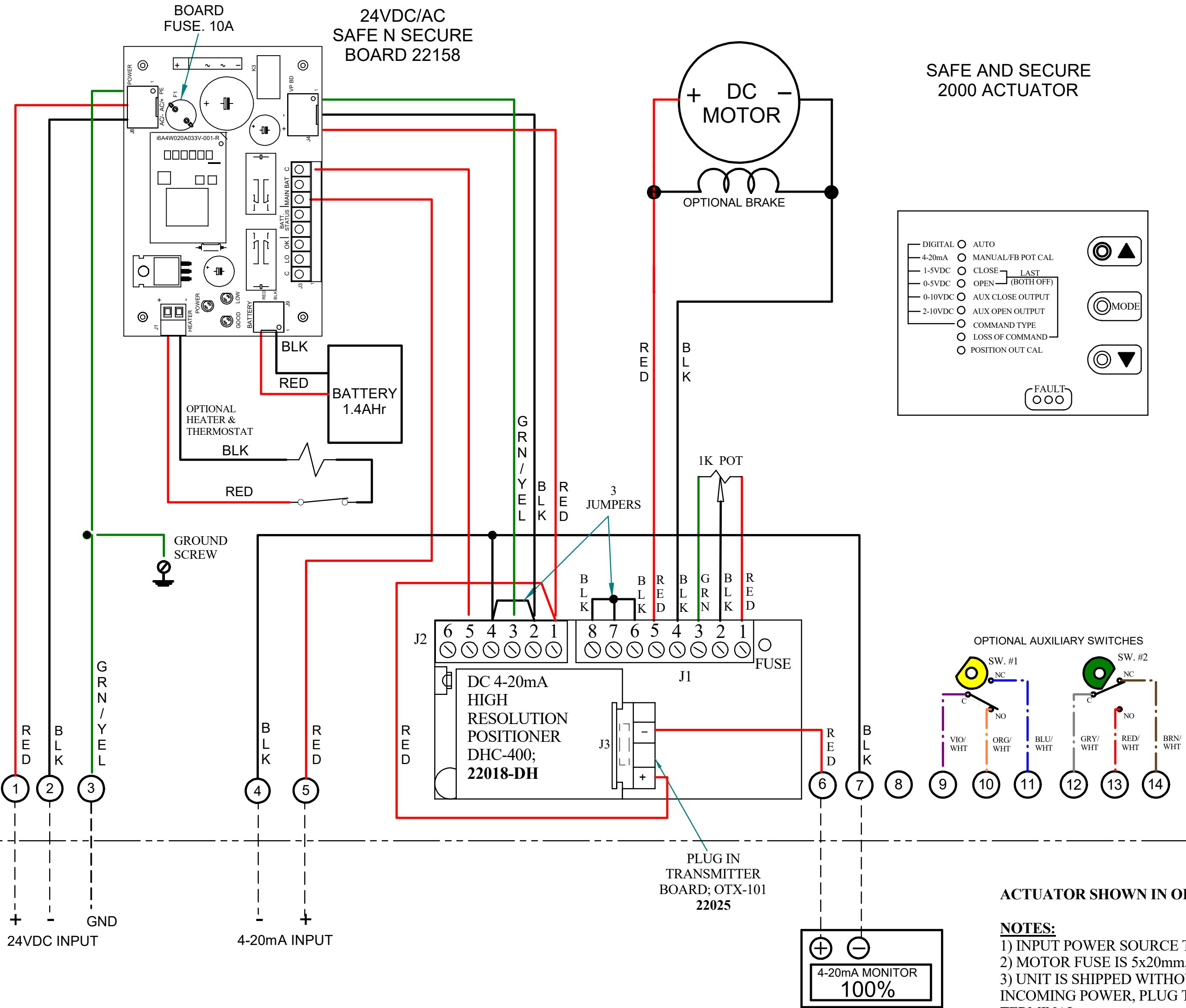
USER IS REQUIRED TO MAKE SURE THAT THE DC POWER GROUND (-) AND THE CONTROL SIGNAL GROUND (-) ARE TIED TOGETHER.

1. Apply DC power to terminals 1 & 2.
2. Push MODE button until yellow "MANUAL/FB POT CAL" LED is illuminated. The LED may be flashing through the next several steps.
3. Using the UP & DOWN buttons, operate the actuator to the mid position.
4. If the LED is solid proceed to step 7.
5. If LED is flashing, loosen the set screw in potentiometer gear on the drive shaft and rotate gear until LED is no longer flashing. NOTE: The farther away from the potentiometer mid position the slower the flashing becomes.
6. Tighten set screw in potentiometer. The solid LED indicates that the potentiometer is set in the mid position.
7. Push MODE button until the "CLOSE" LED is illuminated. Use the up/down buttons to drive the actuator to the desired position. Be sure that the close limit switch is pressed in.
8. Push the "MODE" button until the "OPEN" LED is illuminated. Use the up/down buttons to drive the actuator to the desired position. Be sure the open limit switch is pressed in.
9. Push the mode key until the "Command Type" LED is lit. Push the up/down button to select the appropriate command signal, 4-20mA should be illuminated.
10. Push MODE button until "LOSS OF COMMAND" LED is illuminated. Use the UP/DOWN buttons to select the failure mode upon loss of command signal, stay in last position, drive open or drive close.
11. Push the MODE button until the red "AUX POSITION OUT CAL" LED illuminates while the "CLOSE LED" flashes.
12. Press the MODE button until the "Auto" LED is lit.
13. Check to see that the transmitter output is correct. If not, follow the manual procedure for calibrating the transmitter.
14. Actuator is now calibrated and ready.

ACTUATOR SHOWN IN OPEN POSITION

- NOTES:
- 1) INPUT POWER SOURCE TO BE 24VDC.
 - 2) MOTOR FUSE IS 5x20mm, 10A, 250VAC. INPUT FUSE IS PICO, TR5 AT 5A, 250VAC.
 - 3) UNIT IS SHIPPED WITHOUT THE BATTERY PLUGGED IN. AFTER INSTALLING UNIT AND CONNECTING INCOMING POWER, PLUG THE POSITIVE BATTERY WIRE PUSH ON TERMINAL ONTO THE RED BATTERY TERMINAL.
 - 4) TO INCREASE OR DECREASE VALVE MOTION, ADJUST PER THE PROCEDURE ABOVE.
 - 5) THE "FAIL" CONDITION IS SET PER THE "LOSS OF COMMAND" PROCEDURE - SEE ABOVE.
 - 6) ACTUATOR WILL FAIL IN THE PROGRAMMED POSITION WHEN THE 4-20mA SIGNAL FAILS.
 - 7) WHEN INCOMING POWER IS PRESENT, BLUE LED WILL BE LIT AND ACTUATOR RUNS OFF OF INCOMING POWER. WHEN INCOMING POWER FAILS, BLUE LED WILL TURN OFF AND THE YELLOW BATTERY LED WILL LIGHT - ACTUATOR WILL NOW RUN OFF OF BATTERY POWER UNTIL INCOMING POWER IS RESTORED.
 - 8) RED LED WILL LIGHT WHEN BATTERY VOLTAGE GETS TOO LOW. GREEN LED WILL LIGHT WHEN BATTERY VOLTAGE IS ABOVE 10.5VDC.

FIELD WIRING



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	WIRING DIAGRAM, SAFE N SECURE 2000, 24VDC, "L" SERIES; WITH 4-20mA HIGH RES. POSITIONER & PLUG IN TRANSMITTER, 2 AUX. SWITCHES			
	WJR	10AUG18	W180810	