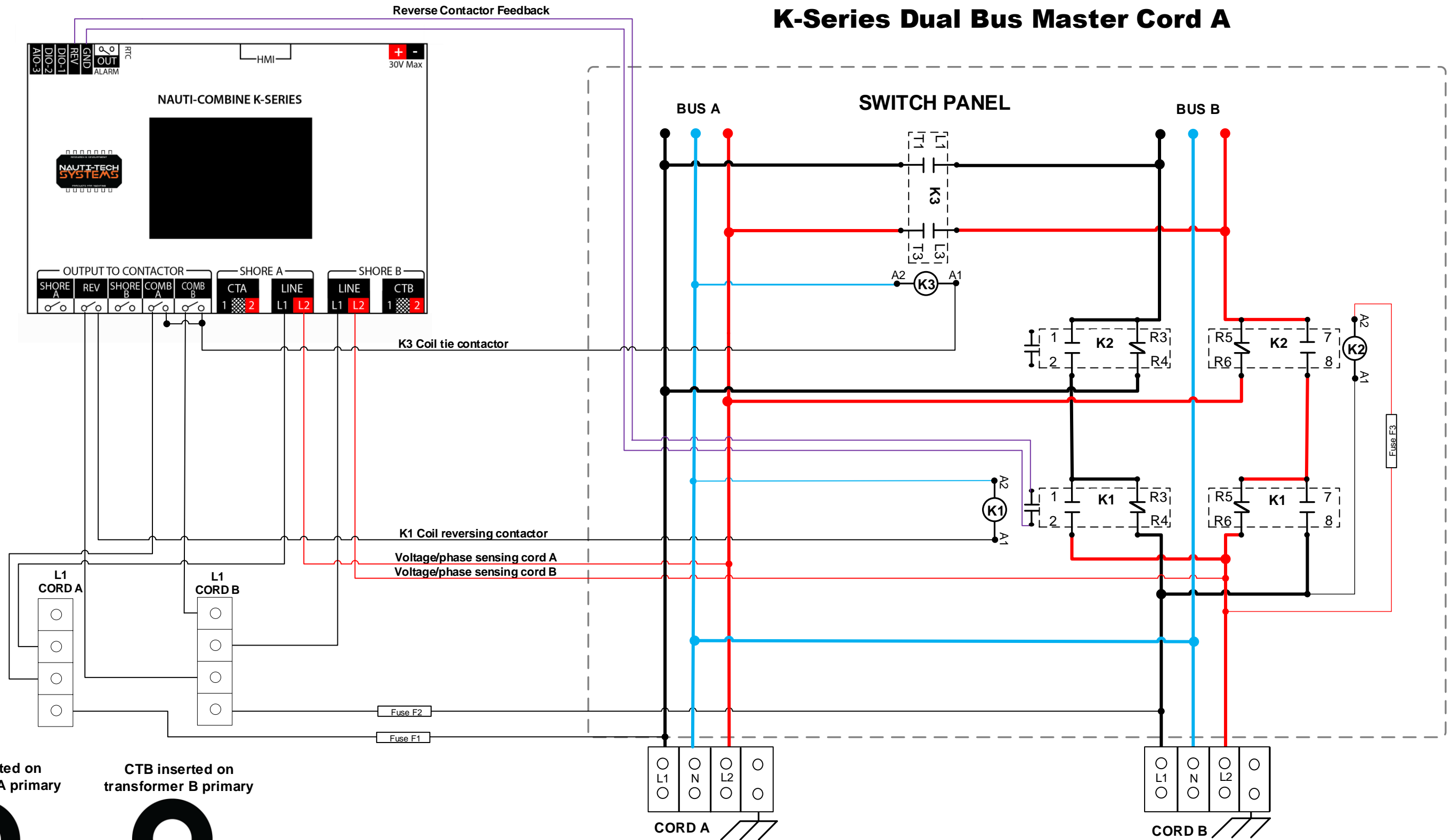


# Nauti-Combine K-Series Dual Bus Master Cord A



CTA inserted on transformer A primary

CTB inserted on transformer B primary



Amps	Contactor #	Type
50	AF40-22-00-13	4 pole
50	AF40-30-11-13	3 pole
100	AF80-22-00-13	4 pole
100	AF80-30-11-13	3 pole

LEGEND  
 (K1) Reverse Contactor    (K3) Combine Contactor  
 (K2) Tie Contactor

SCALE:  
 K Series Dual Master Cord A

Project Designer: JB  
 DATE: 08/07/18

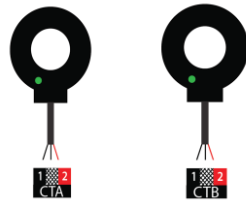
**CORRECTED**  
 REV. Date: 12/17/19



3217 South Andrews Ave  
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## Installation

1- Insert CT's to L1 of the primary of each transformer with the green dot facing the transformer.



2- Test the primaries on the transformers to verify correct phase. Do this by testing L1A to L1B & L2A to L2B, you should have no line voltage. If you have voltage, verify dock voltage is not reverse phase.

3- Connect your secondary of shore A transformer to shore A input on switchgear, and follow same step for shore B.

4- Attach the line sensing wires to the appropriate inputs of the nauti-combine. Verify the inputs are connected in phase. **L1 L2**

5- Verify polarity of your secondary wires. Do this by testing L1A to L1B & L2A to L2B on the nauti-combine. if you have voltage between them, then go back to step 2.

6- Connect the CT wires to the appropriate shore inputs of the nauti-combine. **1 2**

7- Connect the two wires from the reverse auxiliary contact to REV and GND on the feedback of the nauti-combine.



8- Connect one shore power cord to the vessel to power on the combiner. Verify the appropriate input has both voltage and current. CT & Line input must come from same transformer.

9- Connect both shore power cord to the vessel. On the screen after a few seconds you should see the system combine on the lcd screen. If it doesnt combine please check your error log in the troubleshooting guide.

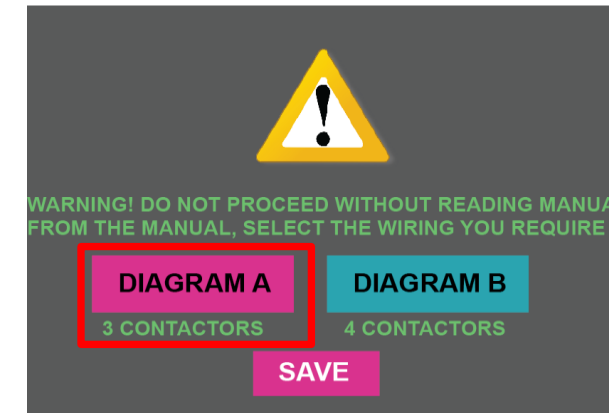
10- Disconnect shore cords from the vessel, then Connect contactors coil outputs to the nauticomcombine. Please refer to the wiring diagram for your specific configuration.

11- Turn off shore power load for this step. Verify the appropriate contactor is controlled by the corresponding cord.

## Operation

In Dual Master Cord A configuration, Cord A powers the system and will tie bar the busses only when Cord A is detected. Cord A needs to be connected first.

## Configuration Setup



The configuration page allows you to select the switchgear configuration. For this specific wiring diagram “**Dual Load Bus Master Cord A**” you would select “**Diagram A**”. Then click “**save**”.

## Installer Setup




### Wiring is correct

- Transformer wiring is correct
- Current XFMR A is correct
- Current XFMR B is correct

### Wiring is NOT correct

- Reverse one transformer
- Reverse current XFMR A
- Reverse current XFMR B

The installer page is used to select presets based on the current rating of the transformers being used. Please complete The installer setup before using our system to combine. Below are the presets based on your XFMR rating.

LEGEND	SCALE:	Project Designer	CORRECTED		3217 South Andrews Ave Fort Lauderdale FL 33316 Tel: (954) 527 0716 Fax: (954) 527 0715
	K Series Dual Master Cord A	JB			