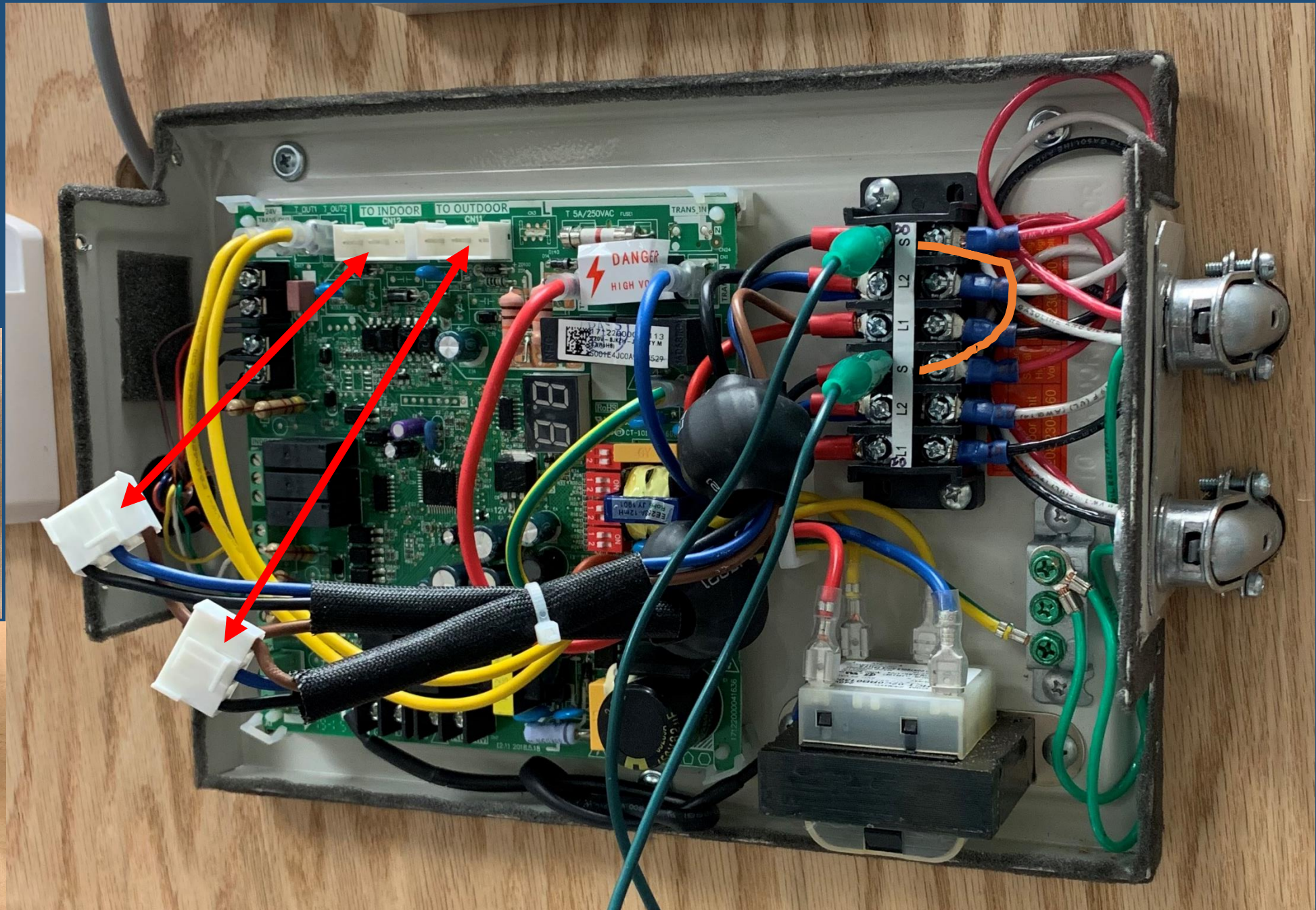


24 Volt Interface

Bridge interface for
Ducted static adjustment
Using 501 or RG57

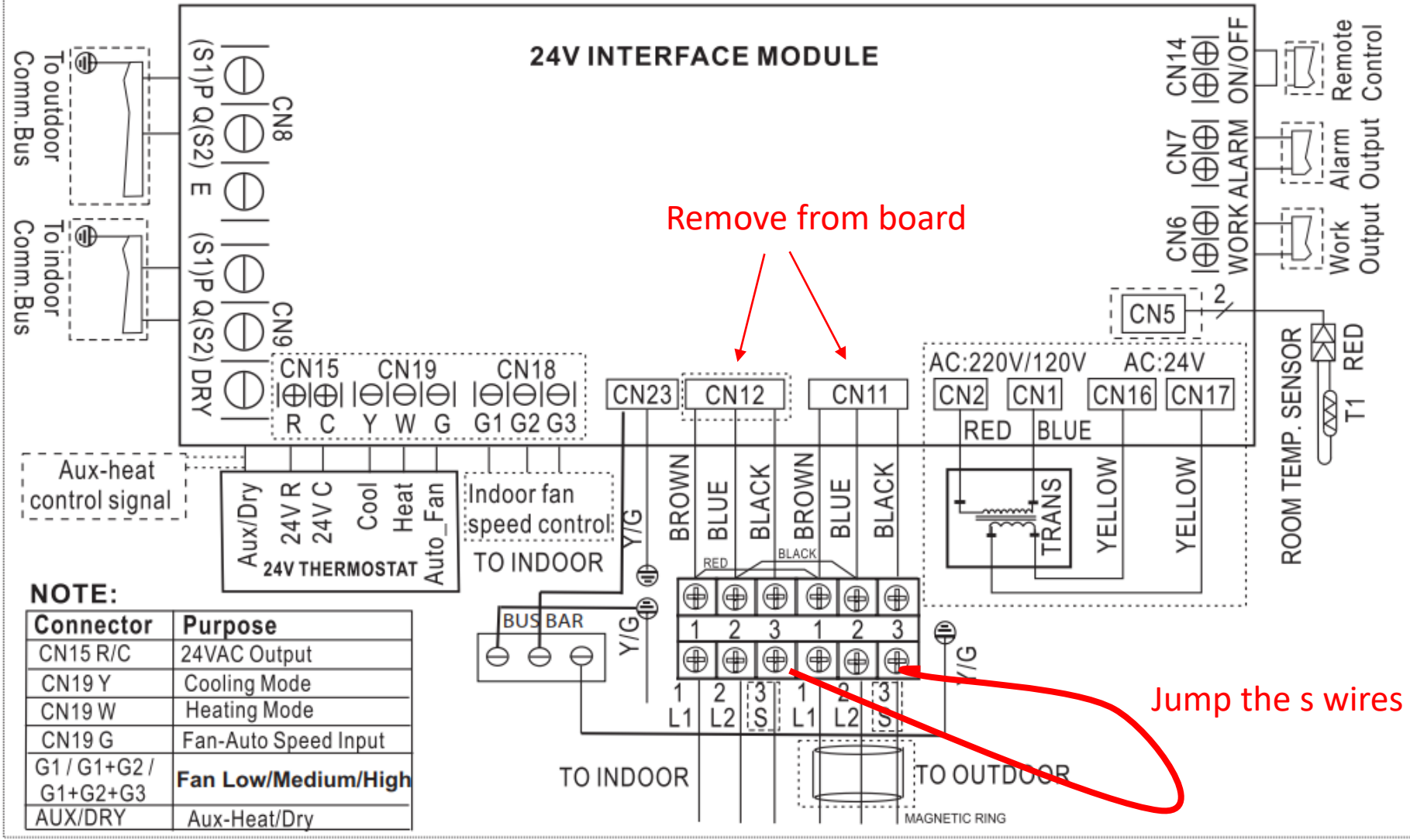


24 Volt Interface

Bridge interface for Ducted static adjustment Using 501 or RG57

Display tube			Set/outdoor only			Unit type			Anti-cold			Dry Mode			Frequency Time			Set/indoor only			Indoor control		
SW1-1	<input type="checkbox"/>	<input type="checkbox"/>	SW1-2	<input type="checkbox"/>	<input type="checkbox"/>	SW2-1	<input type="checkbox"/>	<input type="checkbox"/>	SW2-2	<input type="checkbox"/>	<input type="checkbox"/>	SW3-1	<input type="checkbox"/>	<input type="checkbox"/>	SW3-2	<input type="checkbox"/>	<input type="checkbox"/>	SW4-1	<input type="checkbox"/>	<input type="checkbox"/>	SW4-2	<input type="checkbox"/>	<input type="checkbox"/>
Mode	OFF	ON	Mode	Outdoor only	Set	Mode	Heat pump	Cooling only	Mode	YES	NO	Mode	Aux-heat	Set	Mode	3H	1H	Mode	Set/outdoor only	Indoor only	Mode	Fan High	Fan Middle
Factory default	✓		Factory default	✓		Factory default	✓		Factory default	✓		Factory default	✓		Factory default	✓		Factory default	✓		Factory default	✓	

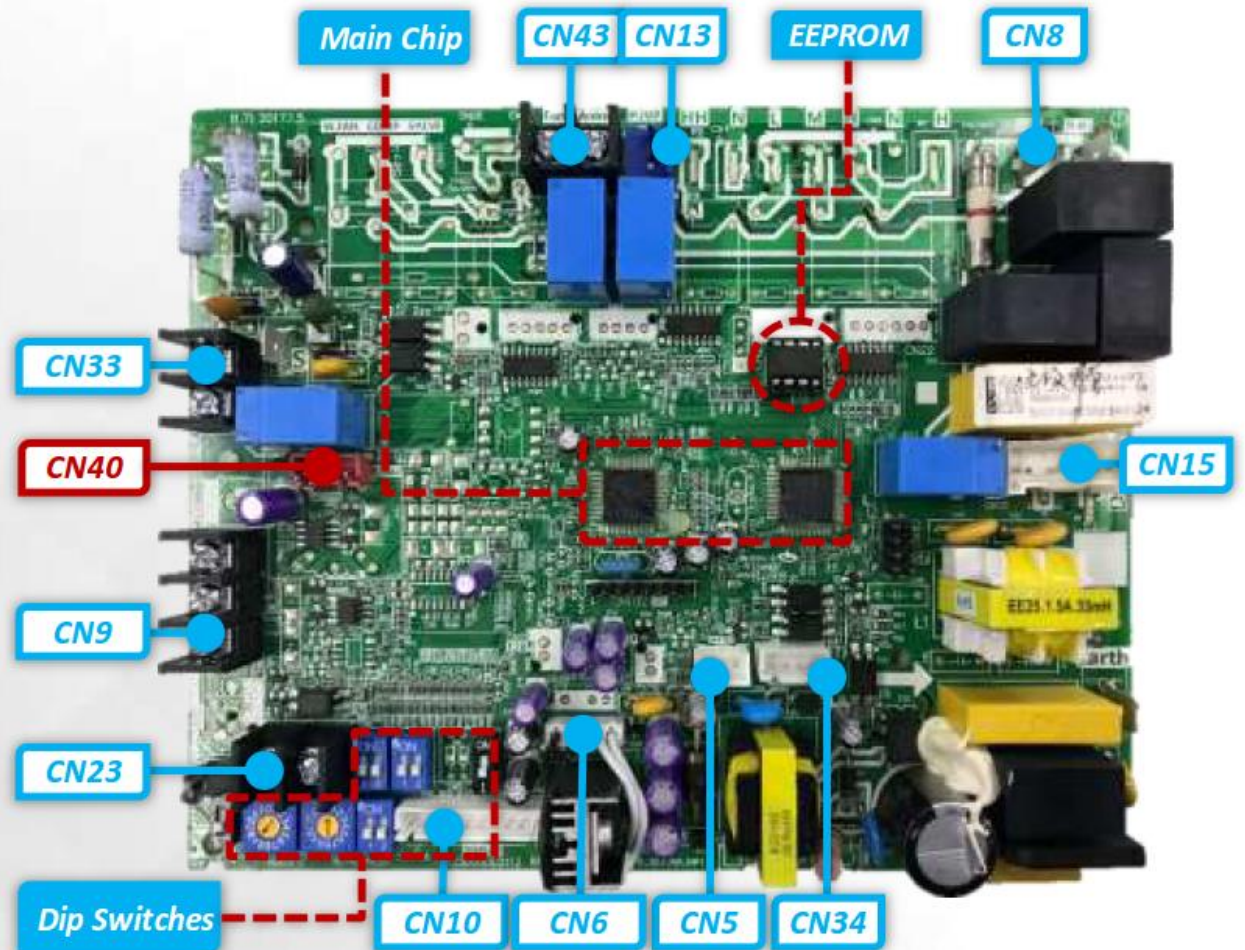
NOTE: If the SW4-1 is ON, the SW4-2 takes effect, otherwise the SW1-2 takes effect.



Inverter Indoor PCB

PCB for Ducted Unit

Port	Description	Parameter	Remark
CN8	Power input for the PCB	230V/AC	
CN15	Power output for DC drive board	230V/AC	
CN34	Control signal for DC fan		
CN5	Port for water-level switch	5V/DC	With jumper
CN6	Power output for room (T1) and evaporator (T2) temperature sensor	5V/DC	
CN10	Power output and communication for display board	5V/DC	
CN23	Dry contacts for remote ON/OFF switch	230V/AC	Reserved
CN9	Communication port for group controller		
CN40	Port for controller communication	12V/DC	
CN33	Dry contacts for remote alarm		
CN43	Power output for fresh-air fan motor	230V/AC	
CN13	Power output for drain pump	230V/AC	



Wire the 501 control into cn40 on the 40mbdq (indoor) board.



Ducted 40MBDQ

EXTERNAL STATIC PRESSURE

Using the KSACN0501AAA Wired Controller, the external static pressure can:

- Be manually changed to the fan curves SP2, SP3, SP4.
- Choose the Automatic Airflow "AF" adjustment function which will automatically identify the static pressure and regulate the amount of airflow.

Follow instructions to configure:

1. Make sure the test run is done with a dry coil. If the coil is not dry, run the unit for 2 hours in **FAN ONLY** mode to dry the coil.
2. Check that both the power supply wiring and the duct installation have been completed. Check that any closing dampers are open. Check that the air filter is properly attached to the air return side passage of the unit.
3. If there is more than one air inlet and/or outlet, adjust the dampers so that the airflow rate of each air inlet and outlet conforms with the designed airflow rate. **Ensure the unit is in FAN ONLY mode. Press and set the airflow adjustment button on the remote control to change the airflow rate from H or L. Turn the indoor unit OFF.**
4. Set the parameters for airflow adjustment. When the system is **OFF**, perform the following steps.
 - a. Press and hold **COPY** for approximately 4 seconds.
 - b. Press "+" or "-" to scroll through the menu and make a selection, either **SP** or **AF**.

NOTE: T1, T2, T26, T3, T4 are sub-menus for thermistors. Do not select for setting external static pressure.

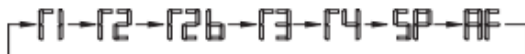
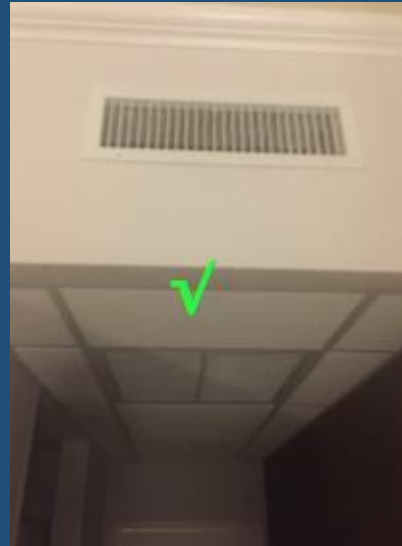


Fig. 11 – Wired Controller Menu Selection

- (1.) If setting the external static pressure manually, select **SP** and press **CONFIRM**. Select the SP number (SP1, SP2, SP3, SP4 – see static pressure Table NO TAG and curves (Figs. 13 through 19)). Power down the unit to lock in the selection.



Size	Units	Static Pressure at Rated Point				Static Pressure Range
		SP1	SP2	SP3	SP4	
9	In. WG	0.068	0.104	0.128	0.176	0~0.20
	Pa	17	26	32	44	(0~50)
12	In. WG	0.064	0.10	0.136	0.20	0~0.20
	Pa	16	25	34	50	(0~50)



System Size		9
High	CFM	353
	CMH	600
Medium	CFM	282
	CMH	480
Low	CFM	176
	CMH	300