MAYFAIR PERFORMANCE

Mayfair LED Panel with LED Adapter (137-8435)

Operation

The LED Adapter provides up to four sender inputs to drive via CAN Bus, one, or more Mayfair LED Indicators. Each LED panel supports two position indicators, and multiple panels can be connected to a single LED Adapter. ONLY one LED Adapter can be connected to an LED panel at a time. The adapter supports the following configurations:

- (1 – 4) engines
- (2) engines and (2) trim tabs
- (2) engines and (2) transom brackets

Installation

The adapter should be mounted in a dry location. To reduce the chances of water intrusion the cable clamps should be facing down. Refer to the included diagram to make the following wiring connections. Each harness contains a red wire for +5-volt power to the sender and black for ground. The third wire color indicates location assignment number that harness belongs to. If a harness is not used, then carefully tape the wire ends to prevent a short circuit.

Initial Setup

When first powered up the LED Indicator will default to port and starboard engines. If no drives are connected, then the panel(s) will default to Trim Tabs. The LEDs will be blue for the entire scale to indicate that a calibration is required. Once calibrated, the bottom 1/3rd of the LEDs will be blue, the middle 1/3rd will be green and the top 1/3rd will be red. **Please note that even though the LEDs are changing when an engine or tab is moved, they will not accurately indicate the true positions until a calibration is performed**.

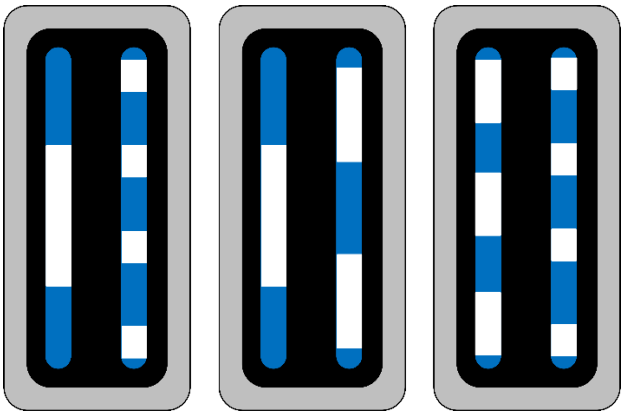
Mode Selection

The LED panel supports three modes, engines, trim tabs or transom brackets. Mode selection is performed using the supplied magnet. Use the following procedure to change the Mode.

1. Place the magnet at the top of the left side LED bar and the LEDs should dim. If not, then try repositioning the magnet until they dim.
2. Hold the magnet in position until the LEDs flash green and then remove the magnet.
3. The panel will now cycle through white, green, and blue to represent the three modes. Please note the panel will only cycle for twenty seconds before reverting to the previously programmed Mode.
    a. WHITE is Engines
    b. YELLOW is Trim Tabs
    c. Blue is Transom Brackets
4. While the panel is showing the color of the mode that you want to program place the magnet back on the panel and LEDs will stop cycling and then dim and flash the mode you selected. If you miss and accidently pick the wrong mode, then just cycle the power and you can start again.
5. If you picked trim tabs (green) you can skip the following step as the position assignment for tabs is fixed and the panel will jump straight to Calibration. Otherwise, you need to pick whether this panel is for engines/ brackets #1 & #2 or if this is for engines/brackets #3 & #4 in a quad setup.
6. After picking engine mode (white) or transom bracket mode (blue) the panel will flash three different assignment options:

a. A single section of illuminated LEDs on the left side and four on the right is an assignment for twin engines port = assignment #1 (brown) and starboard = assignment #4 (gray).
b. A single section of illuminated LEDs on the left side and two on the right is a quad engine assignment where port engine = assignment #1 (gray) and port center = assignment #2 (purple).
c. Three sections of illuminated LEDs on the left side and four on the right is a quad engine assignment where starboard center engine = assignment #3 (orange) and starboard = assignment #4 (gray).

7. When the assignment option appears that you want to program place the magnet on the top of the left LED bar and the LEDs will dim to let you know the option has been selected. Remove the magnet and the LEDs will flash green indicating success.



Calibration

Once the Mode has been selected a calibration is required so the LED panel can properly indicate the position of the engines / tabs / brackets. The calibration routine involves recording the full down, mid-point and full up for each engine / tab / bracket. It is recommended that the recorded mid-point be neutral trim. **Please note that it is possible to effectively increase the resolution of the LED panel by not using full up trim and full down trim in the following procedure**.

1. The bottom LEDs on each bar will be flashing blue after the mode has been selected. Move the engines / tabs or brackets full down positions.
2. Place the magnet on the top of the left side LED bar and the LEDs will stop flashing. Continue to hold until the LEDs turn off. Remove the magnet.
3. The middle LED in each bar will now be flashing green. To record the mid-point, move each engine / tab / bracket to its “neutral” point.
4. Place the magnet on the top of the left side LED bar and the LEDs will stop flashing. Continue to hold until the LEDs turn off. Remove the magnet.
5. The top LED in each bar will now be flashing red. To record full up move each engine / tab / bracket to their full down positions.
6. Place the magnet on the top of the left side LED bar and the LEDs will stop flashing. Continue to hold until the LEDs turn off. Remove the magnet.
7. If the calibration was performed correctly the LEDs will change to blue / green / red and be operational. If the LEDs flash red and then turn back to blue, then there was an issue with the calibration, and it must be repeated.

Operation

- Each time the panel(s) are powered up they will cycle the programmed mode and then the bar assignments.
- In the event of a sender failure, the LED bar will turn yellow.
- The bottom LED on each bar will dimly glow red if there is an issue with the communications network.

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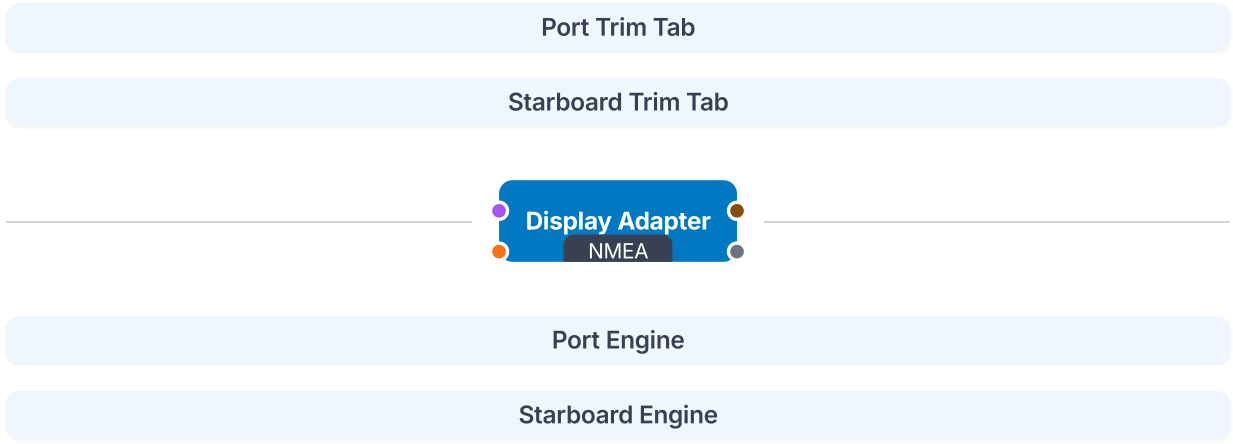
1. 137-8435 DISPLAY ADAPTER CONNECTIONS

The display adapter is the central hub for all your sender inputs. Ensure each connection is secure.



PURPLE → Port Tab

ORANGE → STBD Tab

BROWN → Port Engine

GRAY → STBD Engine

2. Sender Wiring Options

Mercury Sterndrive

Red	→	Red
White	→	Brn / Gry
Blue	→	Black

Mercury Trim Tab

Purple	→	Red
Green	→	Prp / Org
Black	→	Black

Mercury Outboard

Purple	→	Red
Yellow	→	Brn / Gry
Black	→	Black

Mayfair Gen I

Red	→	Red
White	→	Brn/ Gry (Drives)
White	→	Prp/ Org (Tabs)
Black	→	Black

Mayfair Gen II

Red	→	Red
Yellow	→	Brn/ Gry (Drives)
Yellow	→	Prp/ Org (Tabs)
Black	→	Black

Mayfair Gen 3

Red	→	Red
White	→	Brn/ Gry (Drives)
White	→	Prp/ Org (Tabs)
Blue	→	Black

3. Final Checks & Tips

✓ Double-check all connections are tight and secure before powering on.

⚠ Always disconnect battery before wiring to prevent damage.

ℹ NMEA connection shares data with compatible devices.

Mayfair Gen 3 (Retro Fit)

Red	→	Red
Yellow	→	Brn Gry (Drives)
Yellow	→	Prp Org (Tabs)
Black	→	Black

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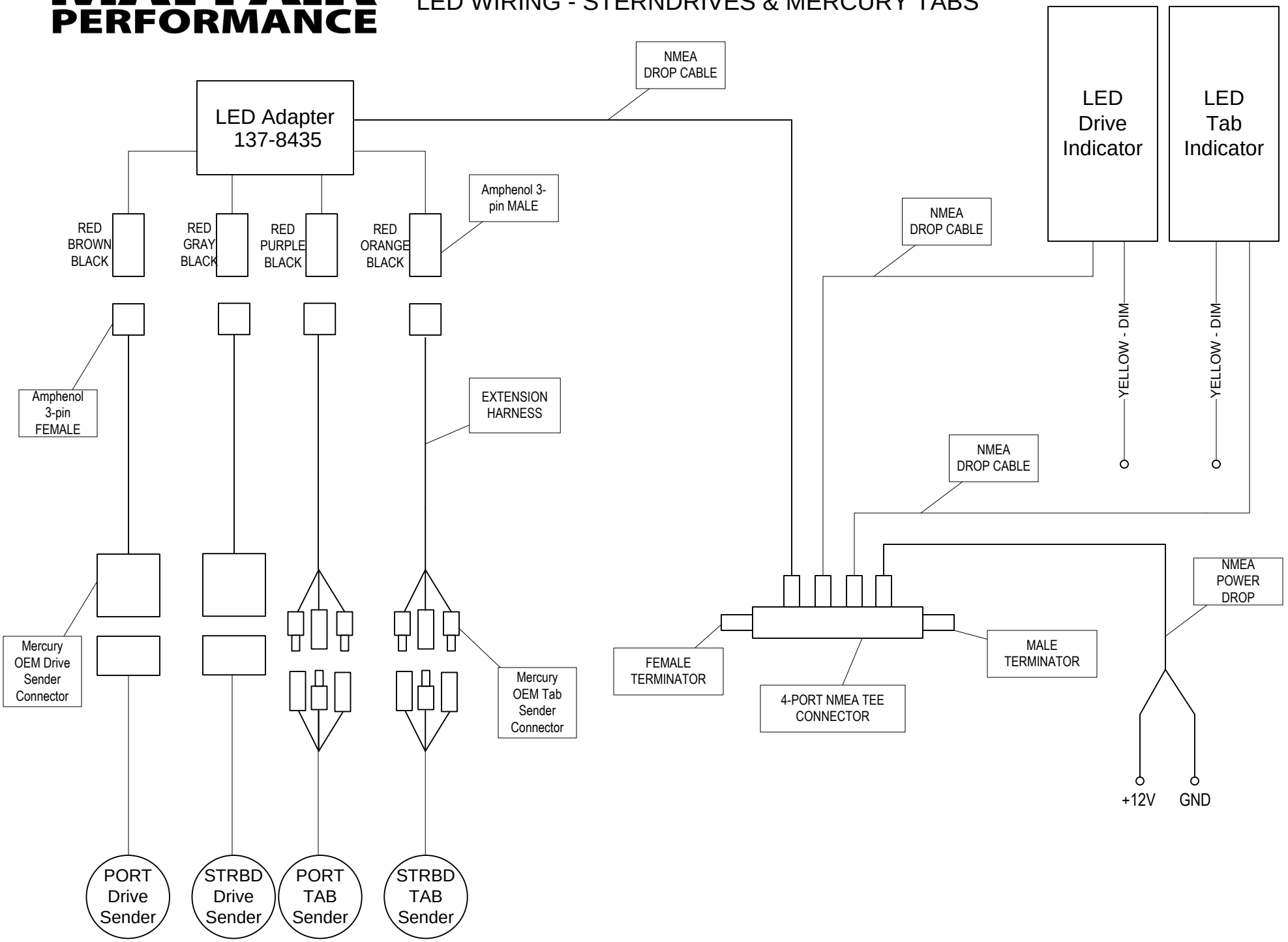
LED WIRING - STERNDRIVES & MERCURY TABS



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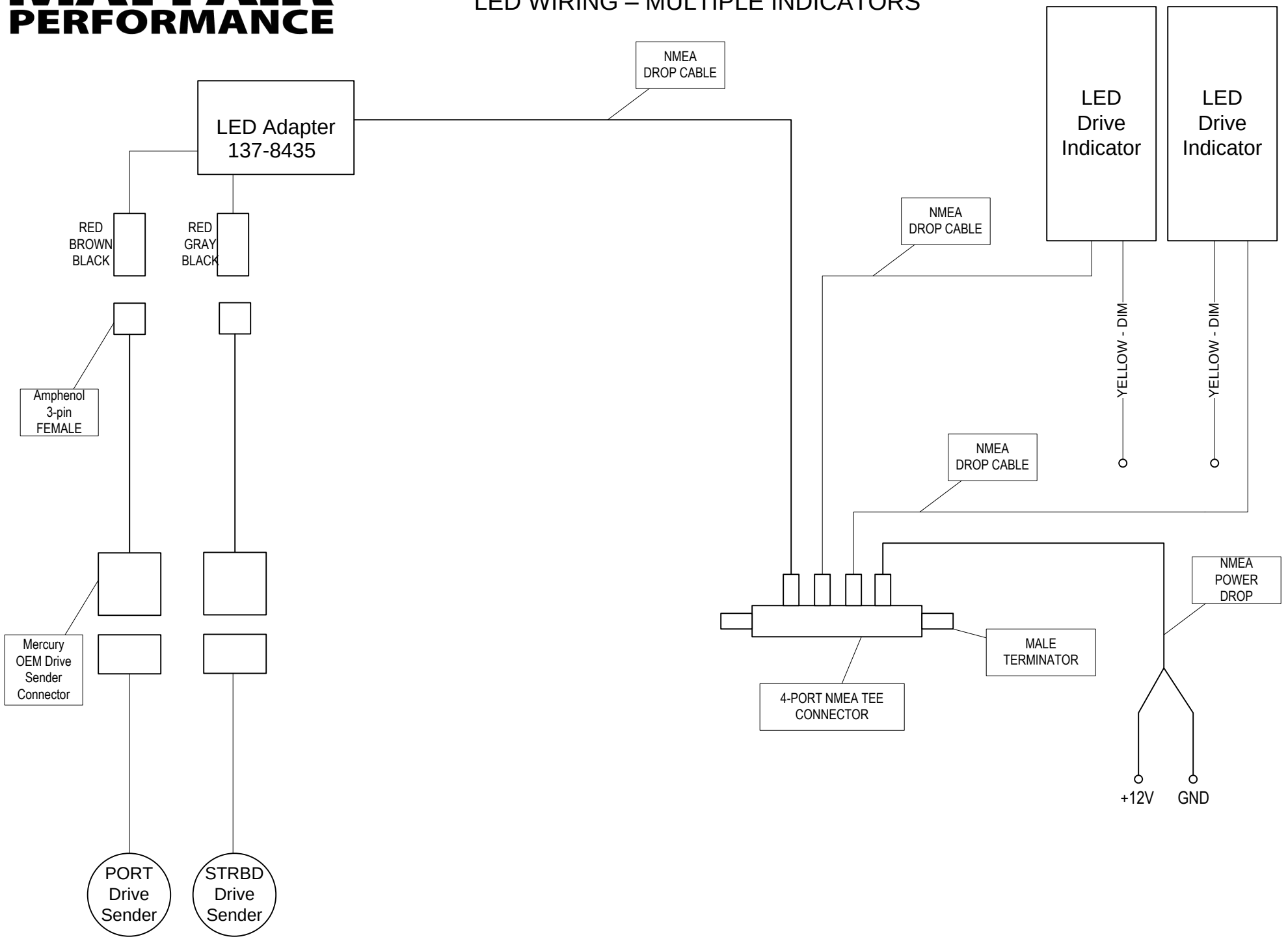
LED WIRING – MULTIPLE INDICATORS



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LED WIRING – JACK PLATES