SPYDER
CONTROLS CORP

10in LCD Screen Guide

2022 BUS / ZEPHYR

SPYDER CONTROLS CORP

USER GUIDE –10in LCD SCREEN

Contents

HOME PAGE

Figure 1 (Lighting Section)

- This section allows you to have quick control over frequently used lights in the coach.

Figure 2 (Climate Section)

- This section displays climate information and current heating, cooling, and fan status. Press on this box to quickly jump to the climate page.

Figure 3 (Power Section)

- This section displays power information for your coach. This includes house and chassis battery status, merge status, AC power source, and AC power information. Press on this box to quickly jump to the power page.

Figure 4 (Tank Section)

- This section displays tank levels. The graph will indicate the levels of each tank and will also provide you with a warning when the tanks are low for fresh or full for grey and black.

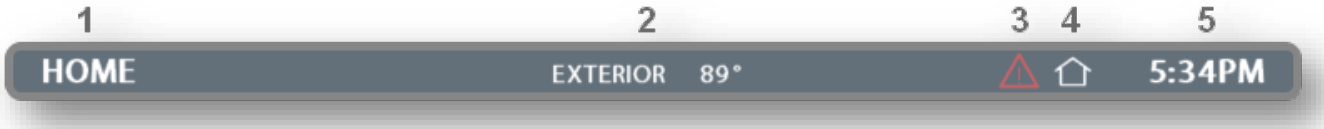
Figure 5 (Top Ribbon)

- This ribbon displays page designation, exterior temperature, active fault icon, home icon, and current time. Please see fig.5 (continued) for more details

Figure 6 (Bottom Ribbon)

- This ribbon allows you to navigate between pages on your screen. Please see fig.6 (continued) for more details

Fig.5 (Continued)



1 - (Page Designation)

- This section displays your current page.

2 - (Exterior Temperature Reading)

- This section displays your exterior temperature. Please note this reading may not be exact due to placement, the angle of the sun, etc.

3 - (Active Fault Icon)

- If this icon is present a fault has occurred. Tap the icon to jump directly to the fault page for further details.

4 - (Home Icon)

- Press this to return to the home page.

5 - (Current Time)

- This displays your current time. Press it to jump directly to the settings page.

Fig.6 (Continued)

1. Home Page
2. Light Page
3. Power Page
4. Climate Control Page
5. Slide Control Page
6. Shade Page
7. Mechanical Page – Locks, Fans, TV Lifts
8. Settings

[Ribbon Appearance]

The bar may be changed from icons (shown above) to text. This is up to the owner's preference.

To change the bar style, go to.

Settings > Screen Settings > Ribbon Options

LIGHTING PAGE

Figure 1 (Exterior)

- This section controls all of the lights outside the coach. Exterior lights do not dim.
  - Under coach (If applicable) - Can only be used when the park brake is set
  - Windshield accent (if applicable) – Will automatically turn on when driving

Figure 2 (Main)

- This section allows control over your main interior lights. Any lights that can dim will contain two arrows beside the light. Holding this light button will bring up a dimming slider. Drag the slider up and down to set the desired brightness level.

  The light will remember its dimmed value until light master is held on. When light master is held on all previously dimmed lights will return to full brightness.

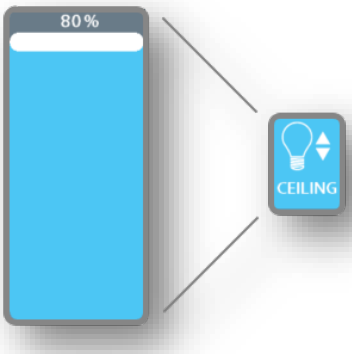


Figure 3 (Light Master)

- Press light master off to turn off any lights that are currently on in the coach. Press light master on to turn these same lights back on. Hold light master on to turn on all interior lights at full brightness.

Figure 4 (Bed/Bath Lights)

- Press here to control your bed lights, bath lights, and bedroom ceiling fan

POWER PAGE

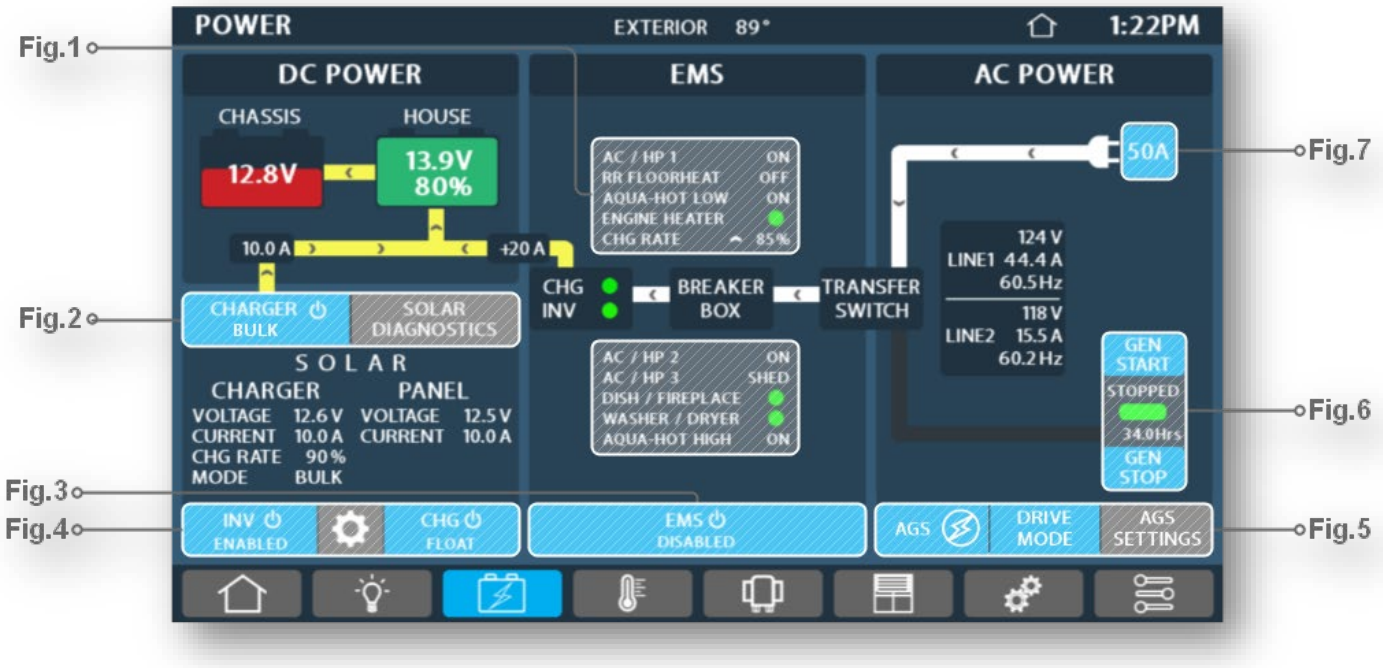


Figure 1 (EMS Load Display)

- These sections will display major loads status as they are controlled by the EMS (Energy Management System). For example, AC / HP 1 (Air conditioner / Heat pump 1) can show a state of on, off, or shed. Constant loads will have a green circle beside them when they can be used. A list of all loads that can be shed will be provided in the glossary.

Solar Charger (If Applicable)

If the optional solar charger is installed all relevant information will be displayed here. Press the solar charger button to enable or disable the solar charger. Press the Solar diagnostics button to view more detailed information.

Figure 3 (EMS)

- Pressing this will enable or disable the EMS (Energy Management System). The EMS takes into account your current power source and dictates which loads receive power. Loads that the system does not have power for, or is currently trying to turn on, will be labeled as “shed”. Once power is available the shed load will be turned on. It is recommended to leave the EMS system enabled. Disabling EMS will allow all AC powered loads to operate. When disabled the user must manage AC loads to prevent the shore breaker from tripping.

Figure 4 (Inverter Charger + Settings)

- This button allows you to enable or disable your inverter or charger. This button will also show you the current status of the inverter and charger. IT IS RECOMMENDED TO LEAVE THE CHARGER ON. Press the gear icon located in the middle to access inverter/charger settings. Please note these settings should only be set according to the manufactures specifications.

Power Page Continued

Figure 5 (AGS + Drive Mode + Settings)

- This button allows you to turn on and off your AGS (Automatic Generator Start). When AGS Drive Mode is selected the AGS system will stay active while driving. When the coach is parked the AGS system will prompt you with a warning on the main hall LCD asking if you would like to continue using AGS. Press the AGS settings to access your AGS settings page.

Figure 6 (Generator)

- Press this to start or stop your generator. When starting the button will flash then stay solid blue once the generator has started. The generator button will show three states, running, stopped, and transit. Transit occurs when you have switched from shore power to generator power. In this state all EMS loads will shed then come back online after a short period of time.

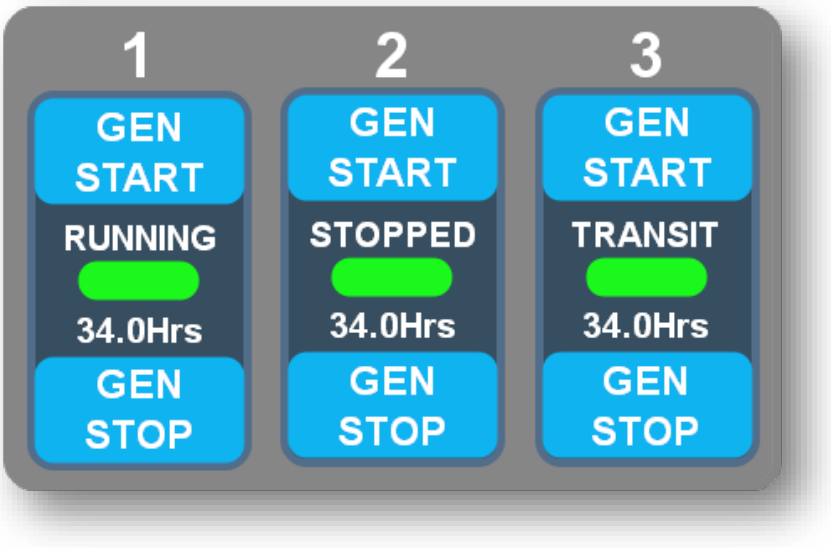


Figure 7 (Shore Power Select)

- This icon will change depending on the type of power provided to your coach. On a 50A hook up it will display as shown in Fig.5. On 30A or less you will be given the option to select a shore breaker size of 15A, 20A, or 30A. Please note choosing a breaker size higher then the hookup is rated for will likely result in tripping the breaker.

CLIMATE PAGE

Figure 1 (Temperature Set Point)

- This section allows control over the HVAC set point in the coach. To heat the coach with your furnace or heat pumps you must first select heat pump or furnace then set your set point above the current ambient temperature (Fig.7) To cool the coach you must select AC then set your set point below the ambient temperature (Fig.7)

Figure 2 (HVAC Mode Select)

- This section provides control over your HVAC loads. Press an icon to activate it. AC loads will flash while they check with the EMS for available power. For safety and the longevity of the HVAC system, most HVAC loads have delays before turning on and off. Zones cannot have conflicting modes. Hence setting any AC unit to heating while the rest are in cooling will turn off all AC's and vise versa.

Figure 3 (Floor Heat)

- This section allows control over the floor heat. The 3 arrows rising indicate a heating status, meaning the floor is currently heating. Once the floor heat reaches temperatures it will enter standby mode. Temperature settings of 1-5 are available with 1 being the coolest and 5 being the warmest.

Figure 4 (Aqua-Hot Settings RV-C Version Only)

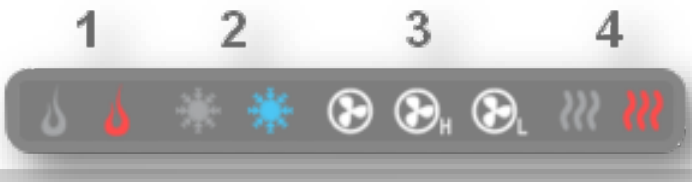
If the coach is equipped with a RV-C Aqua-Hot Unit this button will be present. Press this button to access the Aqua-Hot settings and diagnostic information.

Figure 5 (Water Heater)

- This button allows control over the heating mode for the Aqua-Hot. Electric, gas or both can be selected to heat the water system.
    - Once the electric icon is pressed it will flash until the system has verified there is sufficient power for the electric heat.
    - The diesel will flash if the burner has failed to ignite. Tap the button off then back on to try again. If the burner still does not ignite contact the water heater manufacture for support.
    - Engine preheat (if applicable) is used to preheat the engine with hot water from the Aqua-Hot System.

Figure 6 (HVAC Status)

- For safety and longevity of the HVAC system delays are put in place between starting and stopping HVAC loads. These icons display the status of the HVAC system.



[HVAC Icons]

1. Furnace: Standby (Grey) On (Red)
2. AC: Standby (Grey) On (Blue)
3. Fan Status: Fan High (H) Fan Low (L) Fan Auto (No Letter)
4. Heat Pump: Standby (Grey) On (Red)

Figure 7 (Fan Control)

- This section allows control of the AC fan. When you run the AC in cooling mode you will be able to select either Fan High, Fan Low, or Auto. Auto mode will control the fan for you choosing the best time to switch from High to Low. It is recommended having the fan on high or auto when cooling the coach with the AC. Running the fan on low with the AC on can cause the AC to prematurely freeze up.

Figure 8 (Zone + Ambient Temperature)

- This section displays the location of the air-conditioning unit and the ambient temperature in the zone.

MECHANICAL PAGE

Figure 1 (Fan On / Off)

- Press this to toggle the selected fan on and off.

Figure 2 (Fan Location)

- This banner indicates the location of the vent fan controlled by the buttons below (if applicable).

Figure 3 (Fan Lid Up/Down)

- Press this to raise or lower the vent fan lid. To select an exact vent fan lid position, press and hold the up or down arrow on the vent fan. Once you have reached the desired level, release the button.

Figure 4 (Fan Intake/Exhaust Maxxfan Only)

- If this button appears the fan direction can be changed from intake to exhaust, please note not all locations have a direction option. This feature is only available with Maxxfans.

Figure 5 (Fan Speed Maxxfan Only)

- Press the + icon to increase the fan speed and the – icon to decrease the fan speed. This feature is only available with Maxxfans.

Figure 6 (Locks)

- Press the lock icon to lock your bay or entry door. Press the unlock icon to unlock your bay or entry door.

Figure 7 (TV Lift Up/Down)

- Press the TV lift button to raise the TV lift. **Press and Hold** the TV lift down button to lower the TV.

Please note a press and hold is required to lower a TV Lift, this is to ensure that nothing is pinched when the TV Lift is lowered. The bed lift can be actuated from the bed lift button.

Figure 8 (Ceiling Fan Control)

- This button allows control of the ceiling fan (if applicable). Press the corresponding buttons to select fan speed.

SLIDES

Figure 1 (Slide Extend/Retract)

- Pressing these buttons will extend and retract your slides if the requirements shown in Fig.2/3 are met.

Figure 2 (Emergency Front Slide Extend and Retract)

- Press this if the front slides will not retract from the rocker switches at the front of the coach. This is for emergency slide operation only!

Figure 3 (Slide Run Warning)

- This warning will appear when you try to run your slides if one or more of the following conditions are not met
  - The ignition is not on
  - The park brake is not set
  - The bed lift is not raised (if applicable)

Figure 4 (Slide Run Requirements Status)

- This section shows the status of ignition, park brake and bed lift (if applicable). All must be green before the slides can retract or extend.

SHADES

When using a shade pressing the up or down arrow will raise the shade all the way up or lower it all the way down. To adjust a shade to a specific height, press and hold the up or down arrow, then release at the desired level.

Figure 1 (Night & Day Shade Masters)

- Press Day Shade Master to raise or lower all day shades. Press Night Shade Master to raise or lower all night shades.

Figure 2 (Night Shades)

- Press any button in Cockpit Night Shade or Main Night Shade to raise or lower that specific night shade.

Figure 3 (Day Shades)

- Press any button in Cockpit Day Shade or Main Day Shade to raise or lower that specific day shade.

FAULT PAGE

Figure 1 (Active Fault List)

- This list will show any active fault in the coach, if a fault appears here please contact Spyder Controls for trouble shooting. Press the tech support button to view Spyder Controls support information.

Figure 2 (Diagnostic Page Select)

- Use this to navigate between diagnostic pages. Please note these pages are generally only used to troubleshoot coach problems.

Figure 3 (Fault Warning)

- If this is visible on any screen, press it to bring you to the fault page. This will only appear when a fault is active

Figure 4 (Rx & sRx)

- Rx will appear whenever there is wireless communication with a Spyder device within the coach (i.e. Key Fob, Wireless Switch Panel). sRx will appear whenever there is wireless communication received from a device outside of the system in your coach (possible interference). For ease of troubleshooting Rx & sRx will only appear on diagnostic pages.

SETTINGS PAGE

Figure 1 (Temperature Unit Toggle)

- Press this to toggle temperature units between Celsius and Fahrenheit

Figure 2 (Screen Brightness Adjust)

- Slide the slider to increase or decrease screen brightness

Figure 3 (Screen Settings)

- Press this to access screen timeout, default screen and screen theme adjustment.

Figure 4 (Switch Settings)

- Press this to access switch panel settings

Figure 5 (Diagnostics)

- Press here to jump to the diagnostic pages (These are generally only used by technicians when troubleshooting)

Figure 6 (GUI Version)

- This shows the version of your screens program, Spyder may ask you for this during service

Figure 7 (MIRA Mobile App)

- Press this to set up mobile coach control via the MIRA module.

Settings Page Continued

Figure 8 (Time Adjustment)

- Use the up and down arrows to adjust the system time, please note for AGS to work your coach time must be set correctly.

Figure 9 (Coach Model Select)

- This displays your coach model. If this is set wrong, please contact Spyder Controls.

GLOSSARY

General function of screen buttons and indicators

- Screen buttons will generally be grey when disabled and blue when enabled.
- On diagnostic pages a green dot indicates the load is on while grey indicates a load is off

AGS –Automatic Generator Start

EMS –Energy Management System

Load – Any electrical device controlled by the Spyder Multiplex System (i.e. Bathroom Lights, Air conditioner compressor, Water Pump, etc)

Constant Loads – Electrical devices that use constant power to function though they may not user power all of the time (i.e. Dishwash, Fireplace, Washing Machine)

HVAC –Heating, Ventilation and Air Conditioning

Inverter Assist – Inverter assist is a state in which power is temporarily drawn from the batteries to keep EMS loads from shedding.

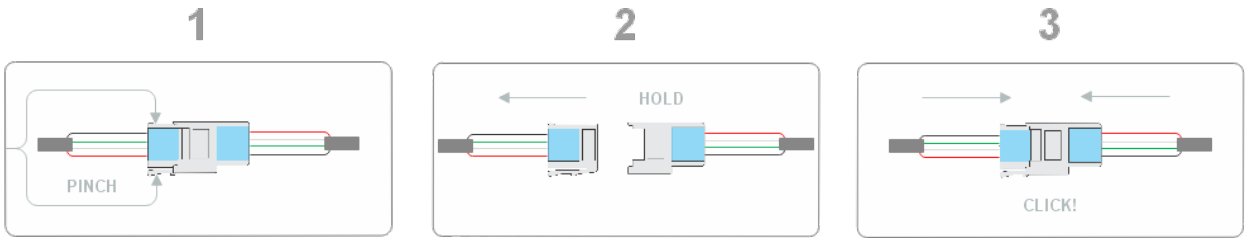
Shed – When the EMS system is enabled loads can enter into a shed state. This state occurs when the power source is insufficient to run the EMS loads requested. The shed status of a load will be displayed clearly for all loads that can shed (see below for a list of these loads). The shed state is temporary, when sufficient power is available the EMS system will reassess and decide what loads can be activated.

Loads that can shed – All air-conditions, front and rear fireplace (if applicable), front and rear floor heat, aqua-hot electric high/low (if applicable), dishwasher, washer, dryer, engine preheat.

Charge Rate – Charge rate can be found on the power page inside the top EMS status box. The charge rate will change based on your current draw and what you have set the max charge rate too. To aid in understanding what the charge rate is doing there is a charge rate status next to the charge rate percent level. This charge rate status will show either an up arrow (charge rate increasing), a down arrow (charge rate decreasing), Max (the charge rate has reached the max charge rate), Min (the charger is charging at 10%)

Rx & sRx – Rx will appear whenever there is wireless communication with a Spyder device within the coach (i.e. Key Fob, Wireless Switch Panel). sRx will appear whenever there is wireless communication received from a device outside of the system in your coach (possible interference).

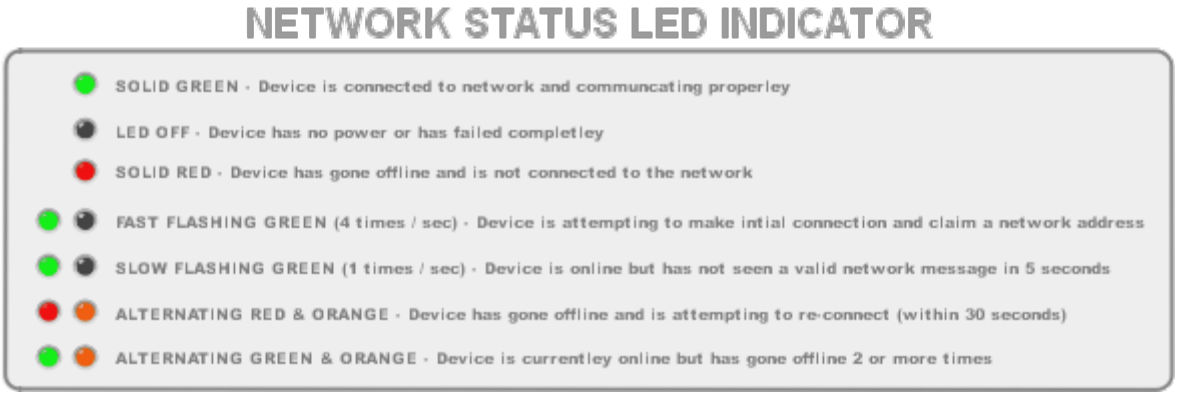
HOW TO REMOVE A NETWORK CABLE



To remove a network clamp from a socket or another type of connector follow three simple steps

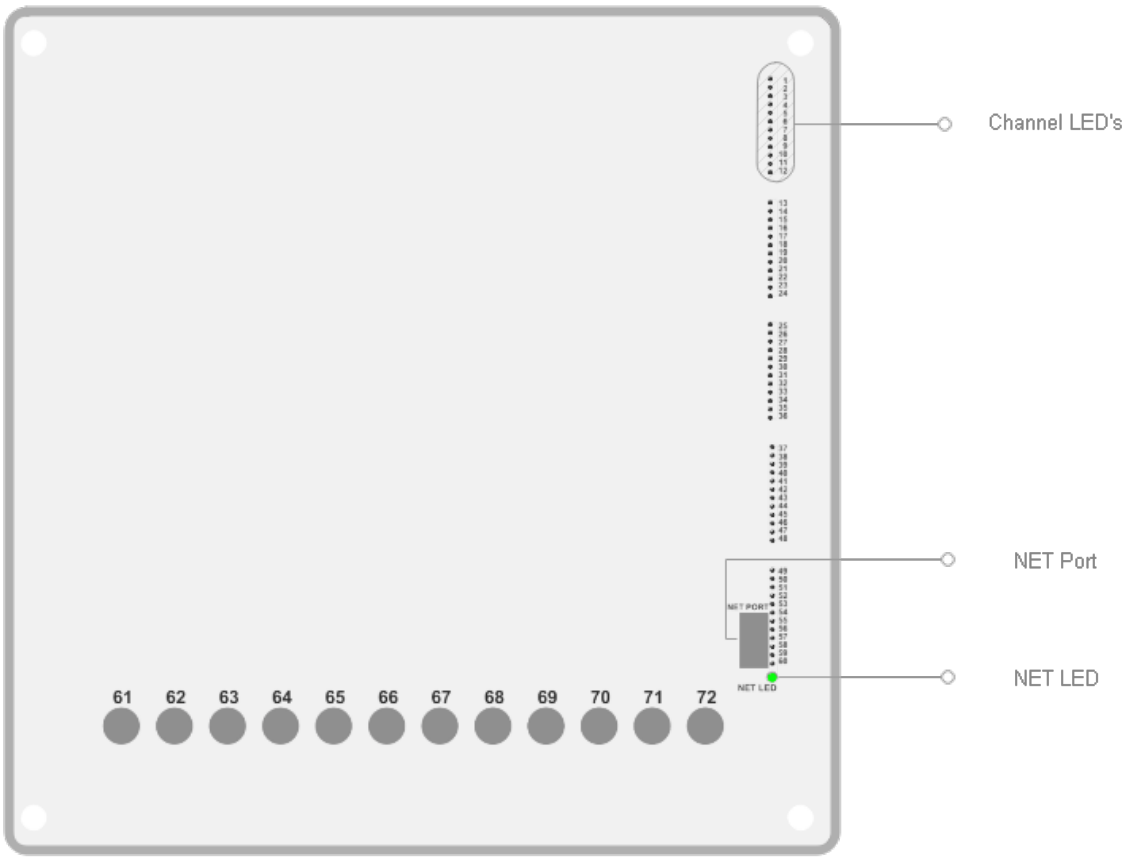
1. Pinch the small black clamp
2. While pinching the plug and holding the socket/connector, pull the plug
3. To reconnect push the plug end into the socket/connector until you hear an audible click

NET LED STATUS



DIAGNOSTIC LED FEATURES

CONTROL PANEL LED INDICATORS



NET LED Functions

The NET LED (Network LED) is used to identify the network status of a module (i.e. Switch panel, G6 House Panel pictured here). NET LED's are useful for trouble shooting and identifying and issue with a coach.

A chart is provided on the PREVIOUS page to help break down what the various states of the NET LED mean.

SUPPORT

If you have any questions or concerns about your Spyder Controls Multiplex System please contact Spyder Controls toll free at (866) 919-9092 or reach us by email at info@spydercontrols.com.

For service manuals and helpful videos on your coach please visit Spydercontrols.com press “login” then enter the following information into the username and password fields

Username: Tiffin

Password: Motorhomes

Use your phone camera or QR code scanner to view our website