

# ATP LFEV CAR ELECTRICAL SYSTEM DIAGRAM

Rev 1.04/ 04-08-2019

Requested Revision

Hayden Dodge

- Rename document: LFEV Car/Dyno Electrical System Diagram
  - o Insert Car/Dyno as appropriate
- Rev number needs to be updated to match the file name Rev1.04
- W39 – GLV/SCADA to Dell Display
  - o Not sure this cable exists
  - o GLV/SCADA →HDMI→Adapter/Converter→VGA→Dell Display
    - What about the SCADA touch screen display on the GLV enclosure
  - o GLV/SCADA →USB→Keyboard
  - o GLV/SCADA →USB→Mouse
- TSI/Pedal Cluster Panel
  - o Rename this panel: Pedal Cluster & Misc TSI Indicators
  - o In the foot pedals section please edit the comment to refer to APPS1 and APPS2 or remove the comment.
  - o W23 & W24 cables are indistinguishable
  - o Why are the labels or W23 and W24 so far apart
  - o Why do these cables route upward and the back down? Can they be straight?
- Cockpit Panel
  - o Fix labels on IMD Fault, Fault, DRIVE, SAFETY, HV Present, GLV Present
  - o Drive button is an oval →make it a circle like the other push buttons
  - o Make CP RESET and CP E-STOP labels at the same height
  - o Change E-STOP →BRB to be consistent with other documentation and the rules
- Left Side Panel/Right Side Panel
  - o Change E-STOP to BRB to be consistent with other documentation and the rules
- GLV/SCADA
  - o Why does the J11 wire come out of the center of the connector instead of the side like the other connectors
  - o J4 the angle of the wire on the connector should be on the right side
- GLV Power Supply
  - o Added a 24V label
- W12
  - o Why do these cables cross twice when they don't have to cross over each other at all?
- W31
  - o Why does this cable snake back and forth so much instead of just two right angle turns?
  - o On top of the connector labels of TSI enclosure
- Weston & Antonio Safety Sign
  - o Rename: Testing in Progress Sign

- J1 and P2 labels overlap outline box
- Why does the W6 cabling have to go down and make right angle turns? Can the rectangle just move down so W6 is straight?
- PC (used to configure MC)
  - Rename PC with MC Configuration Software or PC for MC Configuration
  - The ( ) look weird
- W11
  - Can these be routed straight instead of intersecting and having right angles?
- W36
  - Why does this cable snake?
- Power Supply Used to Configure Valve
  - Why does the cable snake back and forth?
  - Can this be spaced better?
  - W41 Isn't this a 2 pin cable? Fix label on block
- W6
  - There is a label but no wire ...
- Can cable routing from block to block be improved so that connections are clearer and concise?
  - W33
  - W3
  - W18
  - W23
  - W24
  - W12
  - W31
  - W8
  - W11
  - W36
  - W41
  - W40
- Please upload a zip file with the working file and a pdf to the website.