

Enable / Disable



- Both buttons must be pressed to enable
 - "ENABLE" will be displayed on terminal if successful
 - Note gear must already be in Park or Neutral
 - Will show an error "Drive by wire system not ready to engage" if there's a problem with the drive by wire system. Try restarting the joystick control, the computer or the vehicle to clear it. If that doesn't fix the problem ask for support help.
- Either button can be pressed to disable
 - "DISABLE" will be displayed on terminal



Gear Select



- If enabled (and the desired speed is zero) the controller will be applying the brakes already, so there is nothing extra you need to do to switch out of Park
- It will not switch to Park if the car is moving



Speed



- Pressing the "Speed Up" and "Slow Down" buttons will increase or decrease the desired speed by 1 mph
 - Current desired speed will be displayed in terminal
 - Limited to 15 mph
- The "Slow Down Quickly" trigger can also be used
 - When pressed the desired speed will be set to zero
 - Pressing the trigger harder will increase the deceleration limit, so the controller will slow the car down quicker
 - When released the desired speed will be set to the current speed, so if you haven't come to a complete stop the vehicle will continue moving



Steering



- Pressing the "Steer Left" and "Steer Right" buttons will increase or decrease the desired curvature by 0.1
 - Current desired curvature will be displayed in terminal
 - Limited to 0.12, approximately an 8 m turning radius
- The "Steering" thumb joystick can also be used
 - Will override whatever is set with the buttons
 - Instead of mapping the joystick position directly to a desired steering wheel angle, the joystick position is mapped to a desired curvature. The difference between the two is subtle, so using the buttons is a better demonstration of the steering controller



Turn Signals



- Pressing either button will activate the specific turn signal
 - Blinker will be on as long as button is pressed



Mode Button



- Changing the mode will cause the speed/steering buttons to stop working
 - Can happen if you press the button by accident
 - If the buttons aren't working check the little light, if it's on the gamepad is in the wrong mode and the buttons won't work
 - Press the Mode button again to get back to the normal mode



Joystick Timeout

- The software checks to make sure that the USB cable from the gamepad is connected
 - If you see "JOYSTICK TIMEOUT" then check the cable
 - Does mis-trigger occasional, but the timeout is set pretty long
 - Once the cable is re-connected you should be able to re-enable without needing to restart the software



Drive By Wire Faults

- The software checks the status of the drive-by wire system
 - Terminal should display some information on what the problem is
 - Generally a problem with loose can wires
 - You can try re-engaging, but you may have to stop and restart the software

