**LCD Behavior according to Driver switch actions**

The LCD will display a ‘default’ screen if nothing is changed. This snapshot, more clearly visualized through the LCD sketch (which is attached as a txt file), displays both turn signals, the battery state of charge, the head/hazard light indicator, the cruise control indicator, the car gear indicator, and the car velocity. The Pro Micro board checks the switch states every 100 milliseconds. If there has been no change to the switch states since 100 milliseconds ago, then the LCD will keep displaying the default screen with no changes. Otherwise, the LCD will display a notification specific to that change for 2 seconds, after which the LCD will revert to the default display screen with the relevant indicator changed to represent the change (i.e. gear change to neutral would mean the gear indicator would switch from either ‘R’ or ‘F’ to ‘N’). There is an exception to this with the horn, as the horn button will not cause the LCD to display a notification or the default display screen to change. A change in the horn button state will merely change the horn bit in the CAN packet that is sent, but nothing else. The notification consists of a simple message saying what actions has been taken as a result of the change in the switch state. If another change is detected during this notification period, the LCD will override the previous notification and display the new notification, again for 2 seconds and then reverting. This does not mean that the old change is unaccounted for, it merely means that the old change will be visible on the default screen.