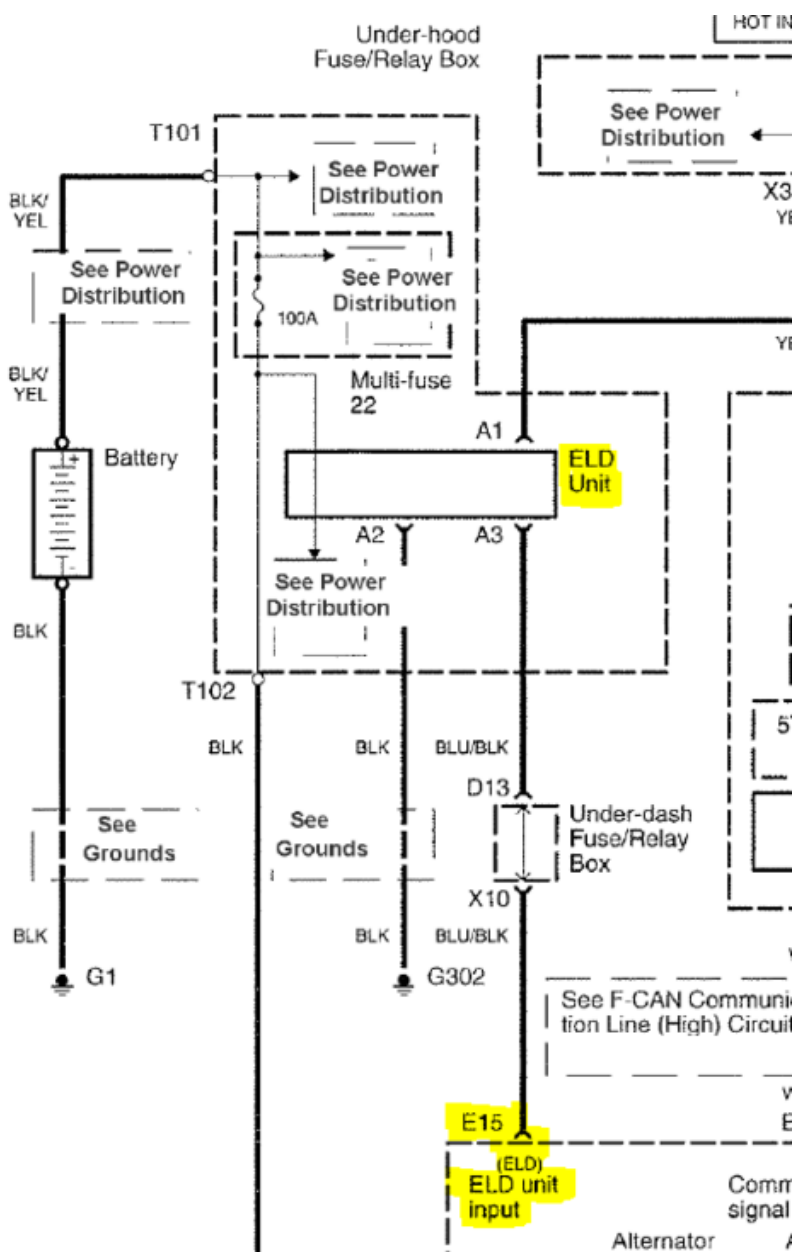


Honda Accord, 2.4L 4CYL, 2007
ELD – Electrical Load Detector
What is it and what is the typical output?

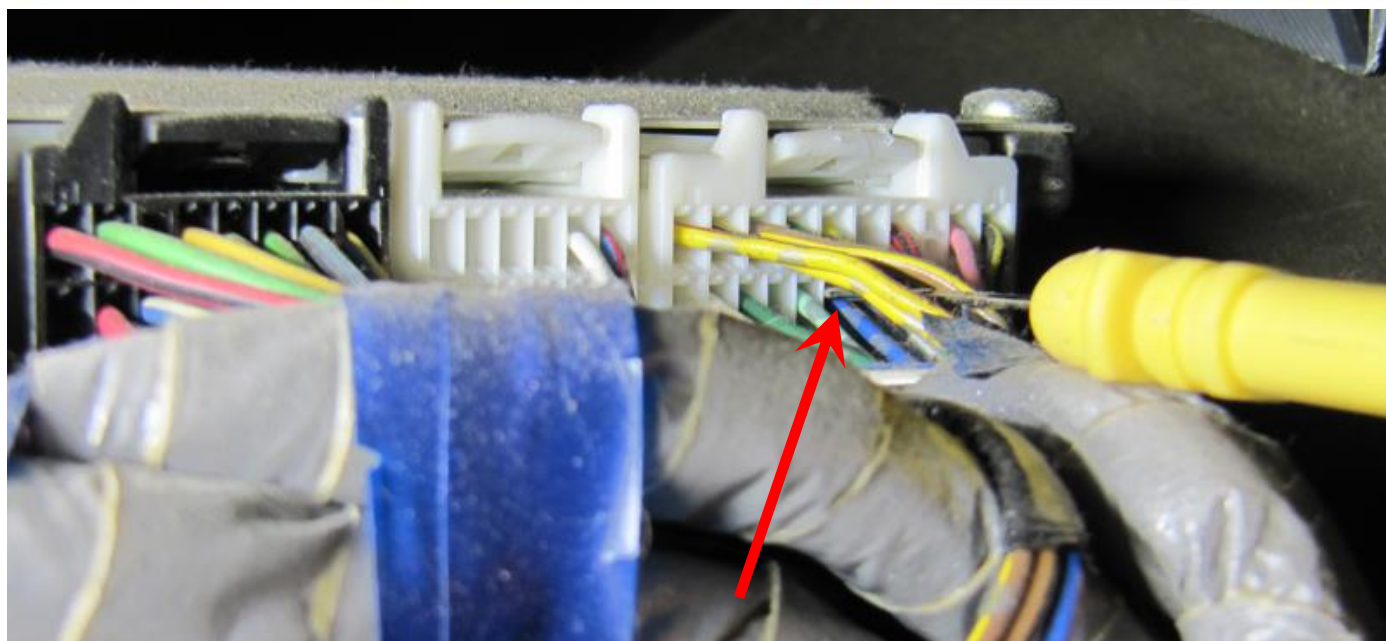
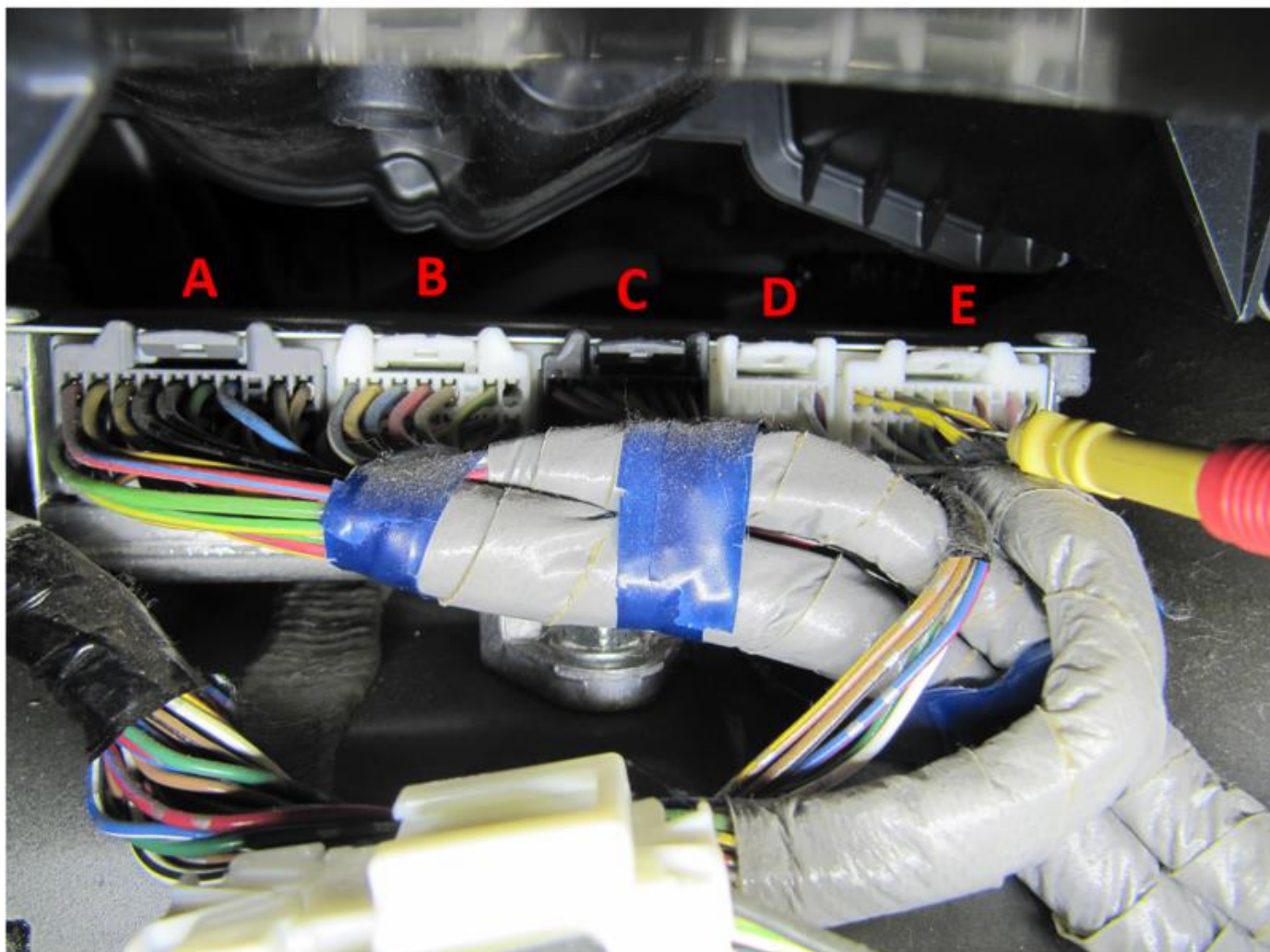
In case it is of general interest, or you ever need to debug your ELD and would like to compare against a known-good output, here is a bit of information....

The ELD (Electrical Load Detector) is basically a current "meter" that measures the total electrical current being used by the vehicle and reports that value to the PCM (control computer). The PCM uses this information to adjust idle speed when necessary and to control the alternator output (increase output when more loads turn on). I think this might be a unique-to-Honda feature.

The ELD is located in the under-hood fuse box:



But it is easiest to access the ELD output signal at the PCM. The ELD is on Connector E, Pin 15 (the fourth wire over from the left on the second row of the E connector):



The output of the ELD is a voltage which is inversely proportional to the electrical load (amperage) currently being used in the vehicle. It ranges from 5V (no load) to near 0V (very heavy load). The following images show the ELD output voltage and measured load current (via a current clamp on the battery wire) with Key-On (II), engine-off and different combinations of loads.

Door Open (so cabin light on), 6.5Amps total load and ELD monitor = ~4V



Now, turning on the blower Fan to HIGH: ~21Amps load, ELD = ~3.24V



Additionally turning on the Rear Defroster: ~ 36 Amps load, ELD = ~ 2.4 V



Additionally turning on the headlights: ~ 46.5 Amps load, ELD = ~ 1.8 V



Also turning on the AC (so the radiator fans come on): ~ 57.5 Amps load, ELD = ~ 1.2 V

