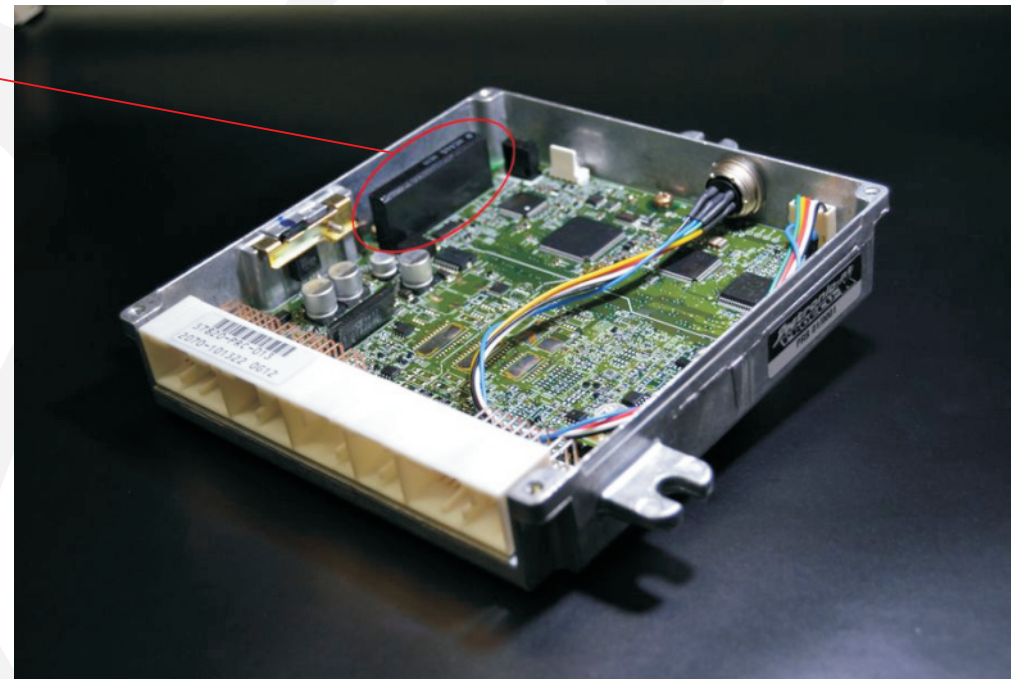


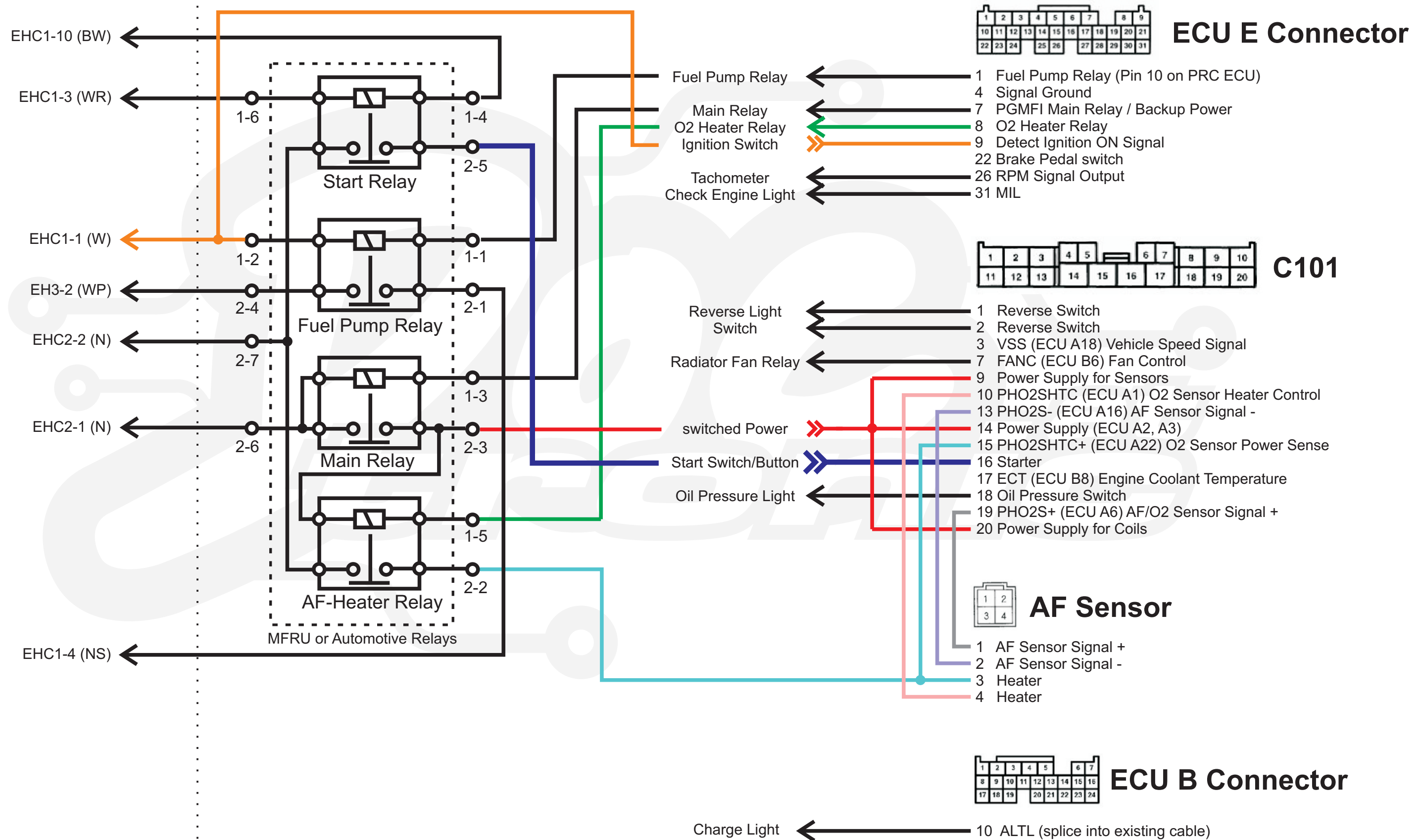
There are many ECUs you can use for a K-Swap. The ECUs have different Names, like PRA, PRB, PRC, PND, PNF, ... and differs by there Software (matching to the Engine) and Hardware (Which Pins & Functions are used). For the Wiring Harness you need to know, is the ECU designed for a AF-Sensor or Narrowband O2 Sensor. Because of the many different Names and Types of ECUs we recommend to visual inspect which primary O2 Sensor System it supports.

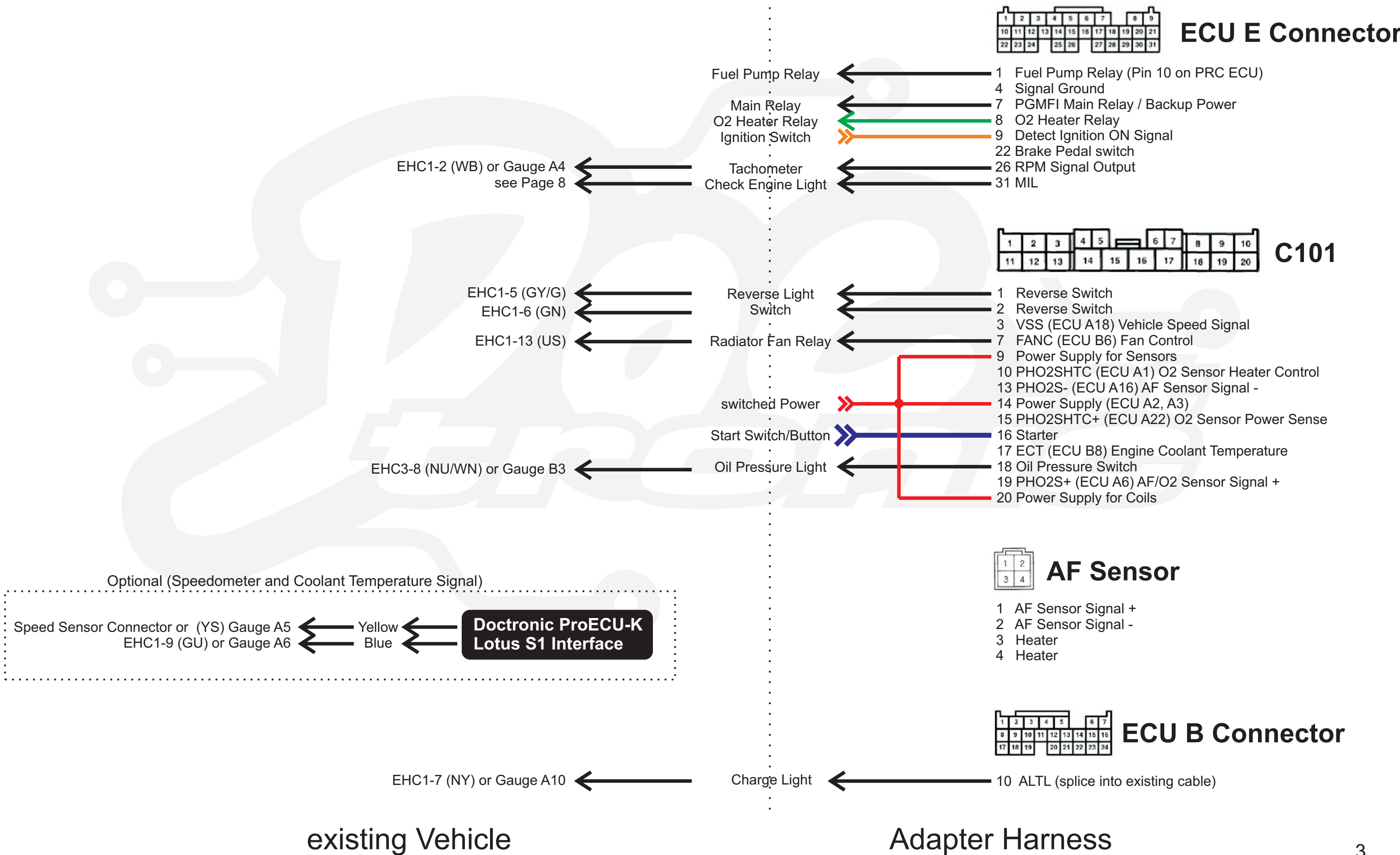
Is this Black Box installed, it's a ECU for the Honda AF-Sensor (Quasi-Wideband), Part No. 36531-PRB-A01. We call this kind of ECU in the Document "PRB".

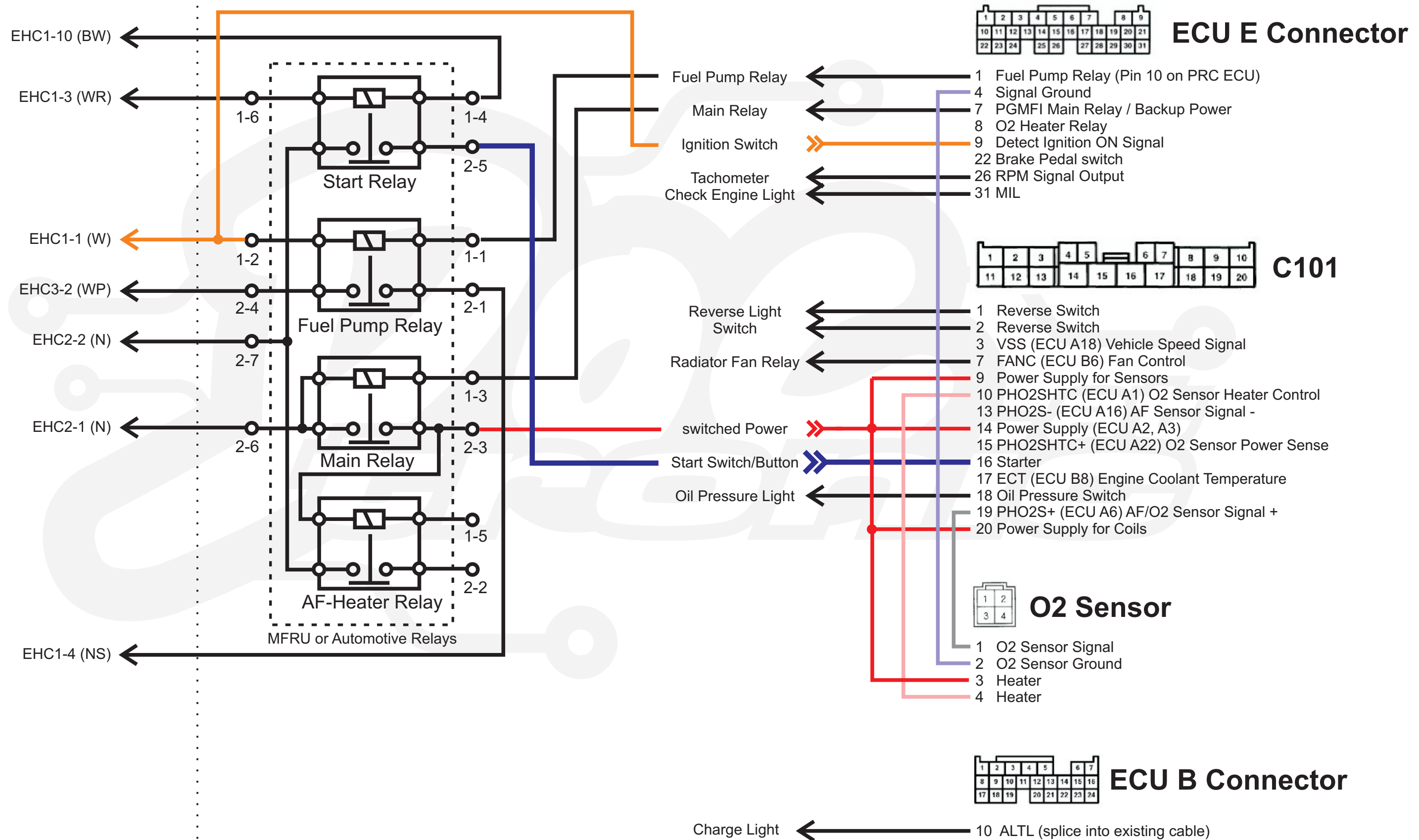
Is this component not installed, the ECU is for Narrowband O2 Sensors. We call it "PRA".

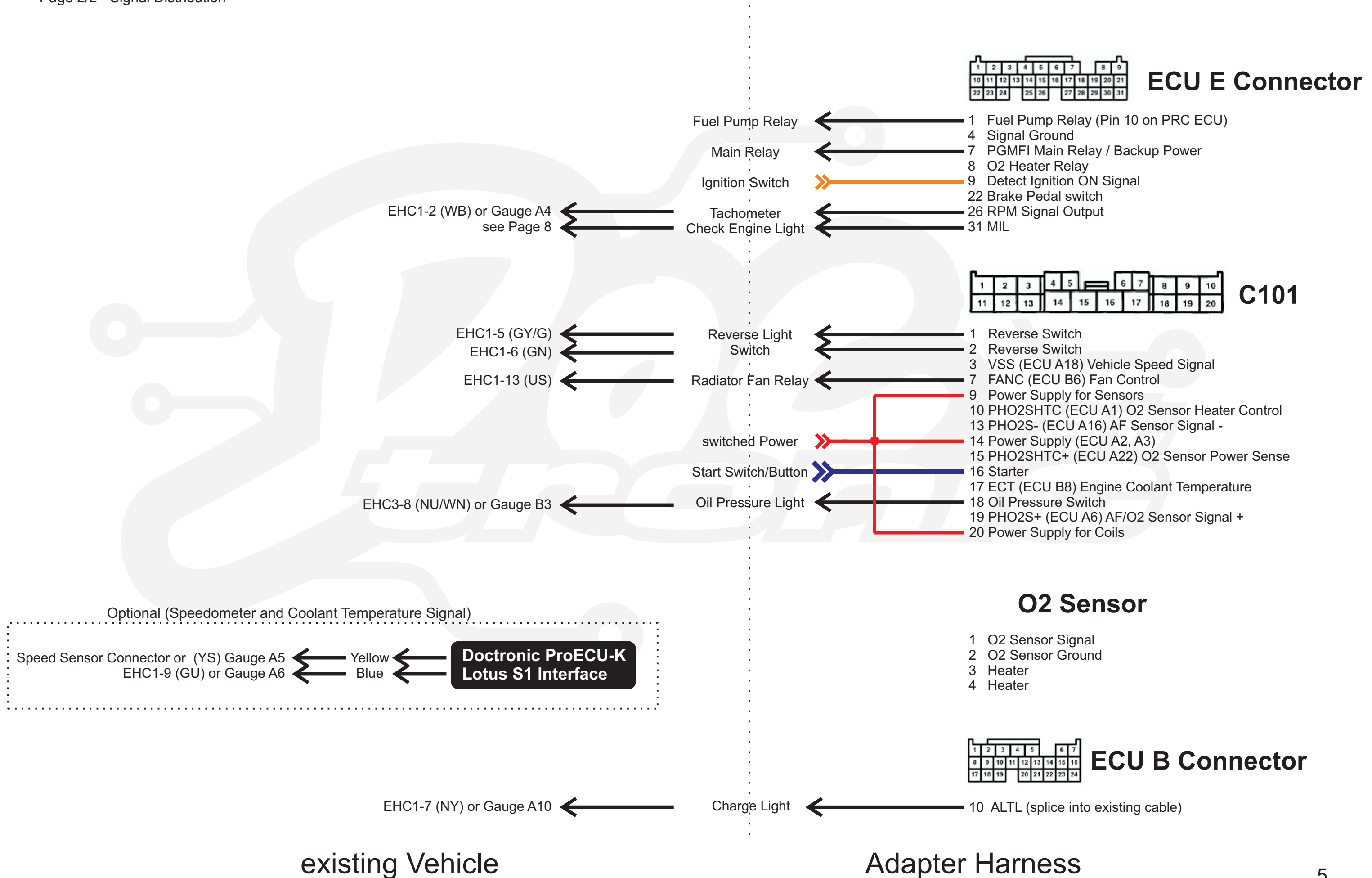


K-Swap Adapter Harness for ECU with ...	Page
... Honda AF Sensor	2
... Narrowband O2 Sensor	4
Cheap Trick (use a Narrowband O2 Sensor on a PRB ECU)	6
Connectors & Pinouts	7
Hints	8
Lotus Wire Color Codes	
use the Catalytic Overheat Lamp as MIL/CEL	





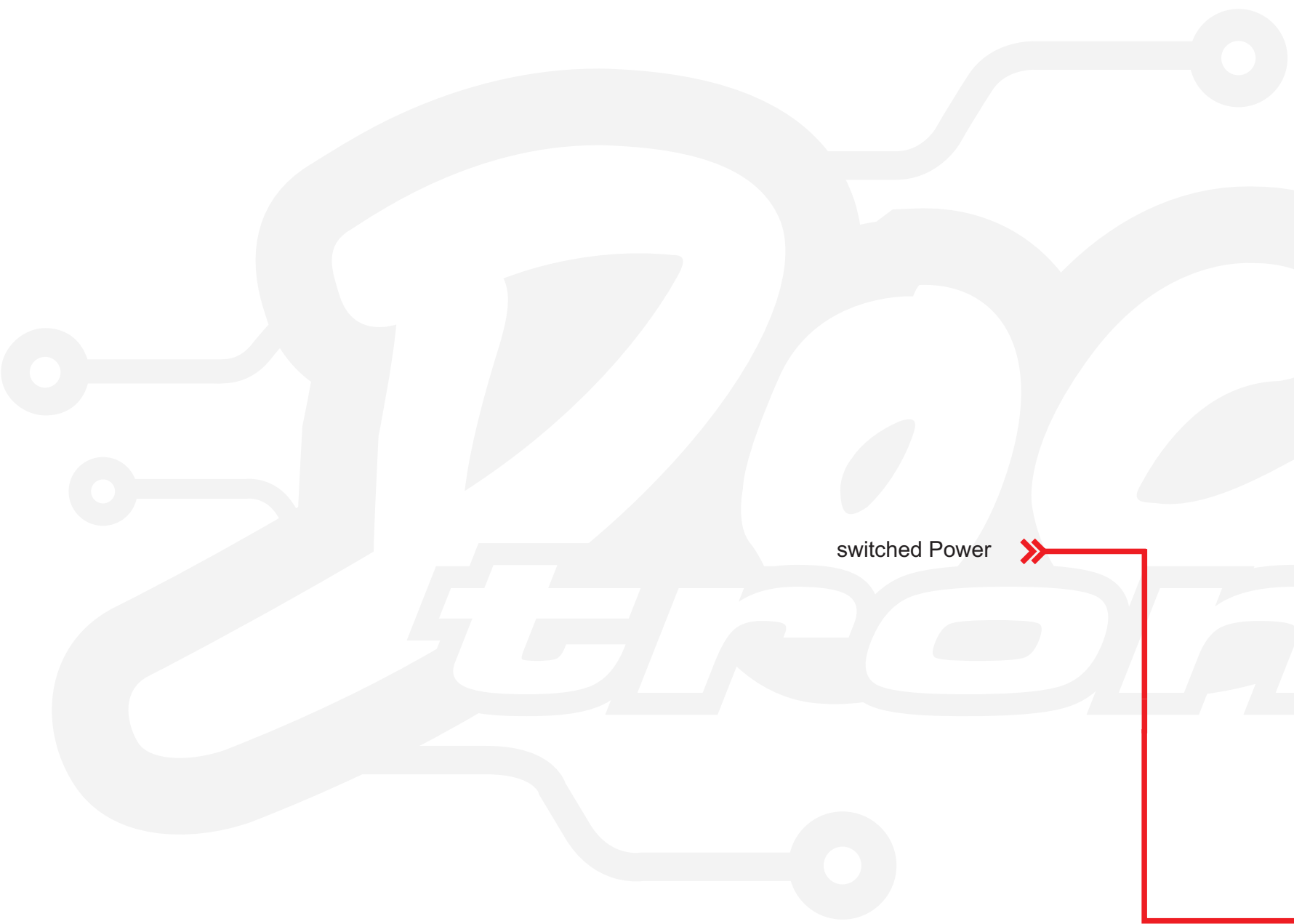




PRB ECU with Narrowband O2 Sensor ("Cheap Trick" alternative wiring of the O2 Sensor)*



* You need to use a PRA Codebase and select the function "use the secondary O2 Sensor as Primary"



1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31					

ECU E Connector

- 1 Fuel Pump Relay (Pin 10 on PRC ECU)
- 2 Secondary O2 Sensor Signal
- 4 Signal Ground
- 6 Secondary O2 Heater Control
- 7 PGMFI Main Relay / Backup Power
- 8 O2 Heater Relay
- 9 Detect Ignition ON Signal
- 22 Brake Pedal switch
- 26 RPM Signal Output
- 31 MIL

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

C101

- 1 Reverse Switch
- 2 Reverse Switch
- 3 VSS (ECU A18) Vehicle Speed Signal
- 7 FANC (ECU B6) Fan Control
- 9 Power Supply for Sensors
- 10 PHO2SHTC (ECU A1) O2 Sensor Heater Control
- 13 PHO2S- (ECU A16) AF Sensor Signal -
- 14 Power Supply (ECU A2, A3)
- 15 PHO2SHTC+ (ECU A22) O2 Sensor Power Sense
- 16 Starter
- 17 ECT (ECU B8) Engine Coolant Temperature
- 18 Oil Pressure Switch
- 19 PHO2S+ (ECU A6) AF/O2 Sensor Signal +
- 20 Power Supply for Coils

1	2
3	4

O2 Sensor

- 1 O2 Sensor Signal
- 2 O2 Sensor Ground
- 3 Heater
- 4 Heater

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24				

ECU B Connector

- 10 ALTL (splice into existing cable)

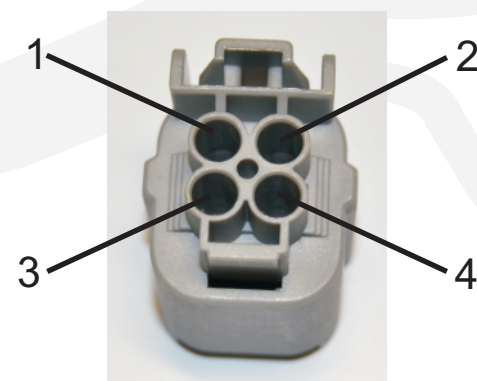
C101



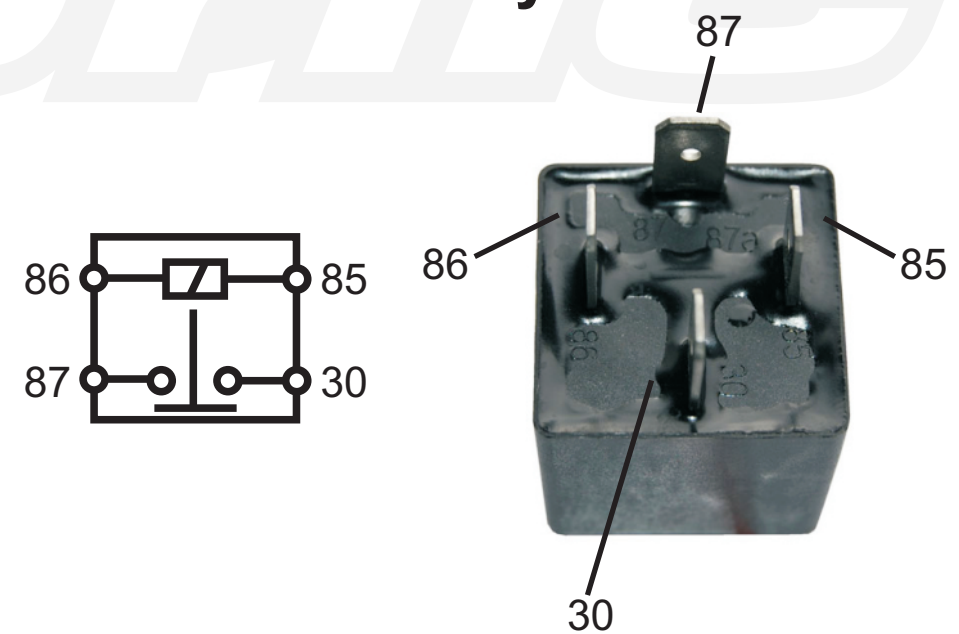
E-Connector



AF/O2 Sensor



Relay



Lotus Wire Color Codes:

B = Black
 G = Green
 K = Pink
 LG = Light Green
 N = Brown
 O = Orange
 P = Purple
 R = Red
 S = Grey
 U = Blue
 W = White
 Y = Yellow

Catalyst Overheat Lamp as CEL/MIL

The Lotus S1Gauge Cluster does not have a Check Engine Light. If you want to use the Catalyst Overheat Lamp as CEL/MIL, you need to invert the Signal. The Honda ECU pulls the MIL Signal to Ground, but the Catalyst Overheat Lamp needs +12 Volt to lit. We recommend the following solution by using a small power PNP Transistor and a Resistor.

