

## EEC-IV Scorpio Breakout Box

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Sometimes a breakout box is useful. Make your own.

### Parts list:

Box  
ECU plug from car harness  
ECU socket from ECU  
~34 banana sockets (\$4/4 at Radio Shack)  
~6 banana plugs (\$4/4 at RS)  
various gauge wire  
switch for spout  
2- DB25 computer connectors, female, for the terminals  
(RS kits with uninstalled terminals) (\$9)  
shrink tubing (\$5)  
spiral wire wrap (\$8)  
bar and gel epoxy to seal the ECU socket (\$10)

I recommend soldering every connection. And then fit some shrink tubing.

I only soldered up the circuits actually used in the Scorpio (~34 of the 60). The layout could be adapted to the XR, assuming it's different (I don't know). It would all pretty much be keyed to the car that supplies the ECU plug.

44 and 49 are optional.

Next to 36 is the switch for the spout.

I left the inside parts of each harness loose- no tie wraps or retainers. I wasn't able to cut the wires to exactly the right lengths, so I stuffed the excess back in the box. This lets the wires flex when bending the harness, so there's no strain on the big connectors.

The ECU socket needs some support, since it's pretty fragile on its own. I used bar epoxy to support the wires and gel epoxy to fill the open back.

### ECU pin outs

1- KAPWR	21- ISC valve	41-
2-	22- Fuel pump relay	42-
3- VSS	23-	43-
4-	24-	44- HEGO ground
5-	25- ACT	45- MAP
6-	26- VREF	46- Signal return (ECT, TPS, ACT, PFE)
7- ECT	27- PFE	47- TPS center
8-	28- ground?	48- Self-test in
9-	29- HEGO	49- jumped from 16
10- Accessories (A/C)	30- Neutral safety switch	50-
11-	31- Canister purge solenoid	51- Thermactor (AMI)
12-	32-	52-
13-	33- EVR	53-
14-	34- Fuel computer	54- WOT relay
15-	35-	55-
16- Ignition ground	36- Spout	56- PIP
17- Self-test out	37- VPWR (injectors, ISC, CANP, AMI)	57- VPWR (injectors, ISC, CANP, AMI)
18-	38-	58- Injectors, bank 1
19-	39-	59- Injectors, bank 2
20- Case ground	40- Battery ground	60- Battery ground































