

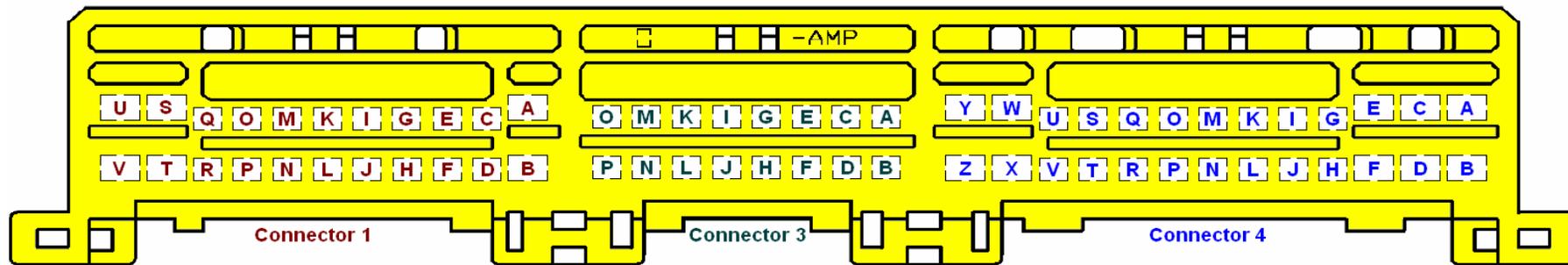
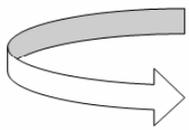
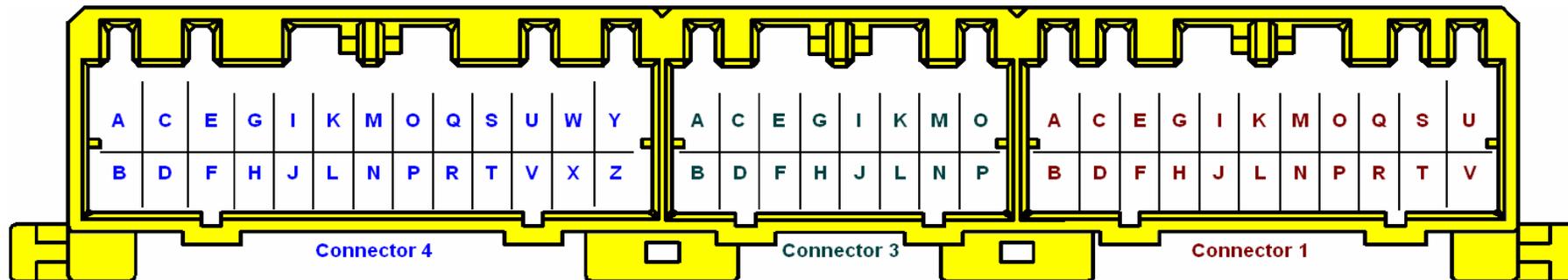
Megasquirt Harness Layout for 1996/1997 Miata

For running parallel with stock ECU

AMP/Tyco Female 64-pin Multi-Lock Connector

Matching P/N(s): 174518-7 776189-6 178764-1 174518-6 174518-7 2-177609-6

front view

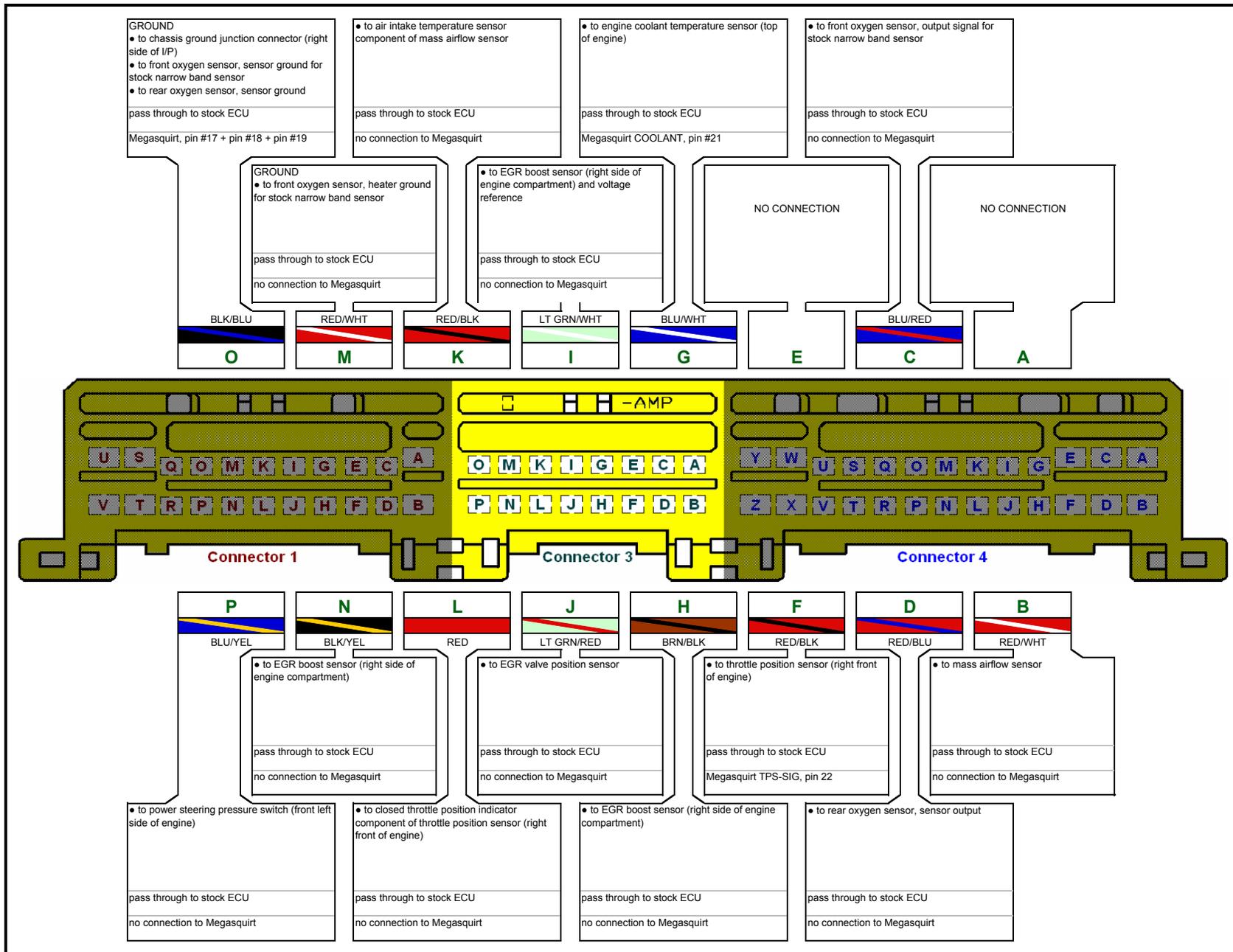


rear view

Notes

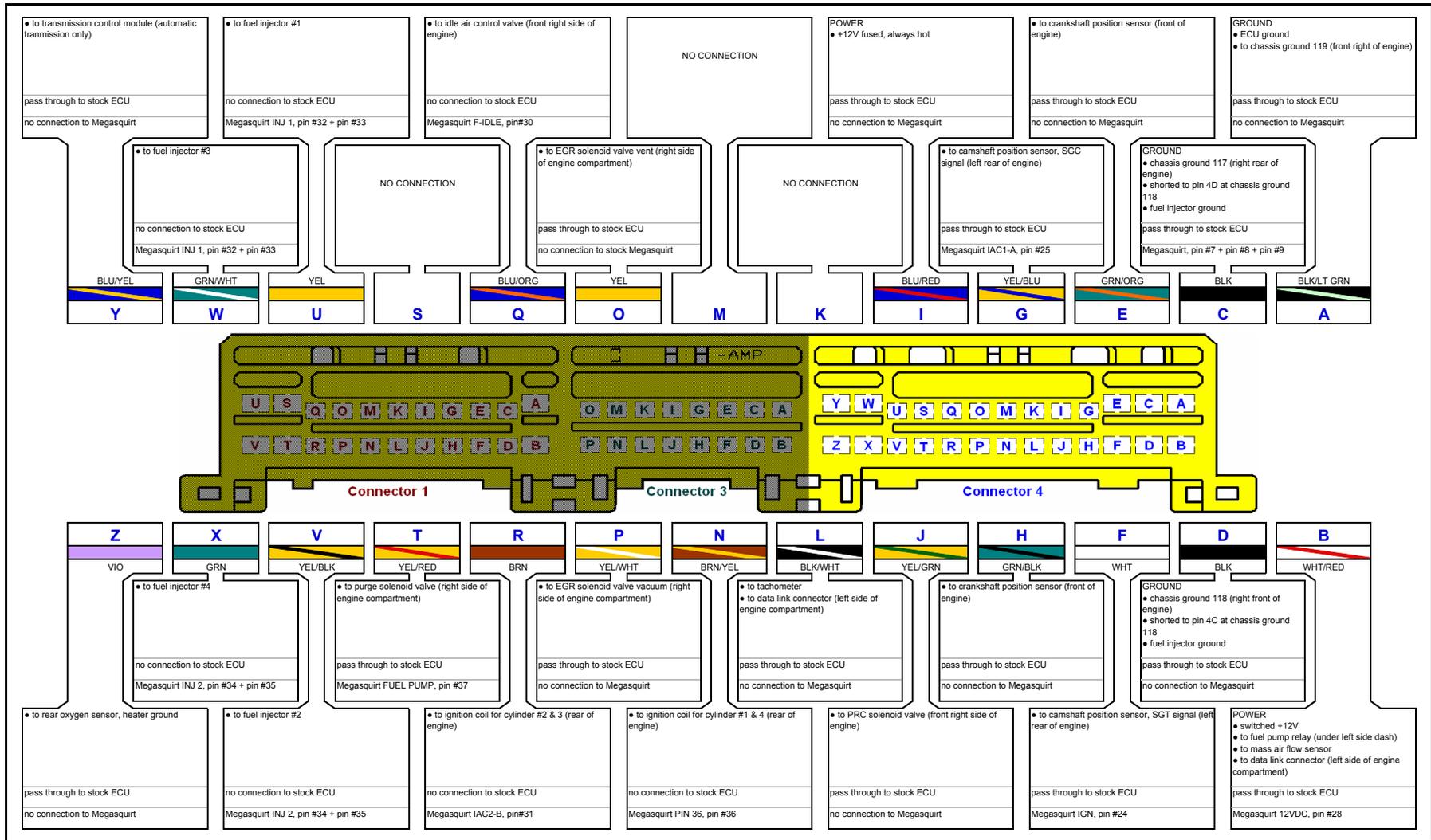
ECU Pinout Connections for 1996/1997 Miata using Megasquirt in Parallel Configuration

Assumes: idle mod @ IAC2B (PWM output on MS pin #30), manual transmission, relay/fan control mod @ IAC2A (output on MS pin #29)
 wideband O2 sensor separate from Miata harness, AIT sensor separate from Miata harness, launch control mod with clutch switch @ IAC1B (low input on MS pin #27)



ECU Pinout Connections for 1996/1997 Miata using Megasquirt in Parallel Configuration

Assumes: idle mod @ IAC2B (PWM output on MS pin #30), manual transmission, relay/fan control mod @ IAC2A (output on MS pin #25)
wideband O2 sensor separate from Miata harness, AIT sensor separate from Miata harness, launch control mod with clutch switch @ IAC1B (low input on MS pin #27)



DB37 and Megasquirt Pinout Connections for 1996/1997 Miata using Megasquirt in Parallel Configuration

Assumes: idle mod @ IAC2B (PWM output on MS pin #30), manual transmission, relay/fan control mod @ IAC2A (output on MS pin #29), wideband O2 sensor separate from Miata harness, AIT sensor separate from Miata harness, launch control mod with clutch switch @ IAC1B (low input on MS pin #27)

DIY Autotune Pre-built Harness		DB37 Pin #	Megasquirt	ECU
Wire color	Wire Label			
none	none	1	none	none
bare sheild	 none	2	leave unconnected (sheild for pin 24)	none
none	none	3	none	none
none	none	4	none	none
none	none	5	none	none
none	none	6	none	none
BLK	 none	7	ground, combined with pin 8 and pin 9	4C
BLK	 none	8	ground, combined with pin 7 and pin 9	4C
BLK	 none	9	ground, combined with pin 7 and pin 8	4C
none	none	10	none	none
none	none	11	none	none
none	none	12	none	none
none	none	13	none	none
none	none	14	none	none
none	none	15	none	none
none	none	16	none	none
BLK	 none	17	2nd ground, for sensors, combined with pin 18 and pin 19	3O
BLK	 none	18	2nd ground, for sensors, combined with pin 17 and pin 19	3O
BLK	 none	19	2nd ground, for sensors, combined with pin 17 and pin 18	3O
ORG	 IAT	20	intake air temp	N/A
YEL	 COOLANT	21	coolant	3G
BLU	 TPS-SIG	22	throttle position sensor	3F
PNK	 O2	23	O2	N/A
GRY	 IGN	24	tach signal (sheild on pin #2)	4F
BLU/WHT	 IAC1-A	25	Tach Input, IAC1A on MS board	4G
WHT	 TPS VREF	26	leave unconnected	none
BLU/WHT	 IAC1-B	27	Clutch switch (for launch control)	1L
RED	 12VDC	28	power 12VDC	4B
GRN/WHT	 IAC2-A	29	Cooling fan, IAC2A on MS board	1A
GRN	 F-IDLE	30	Idle control valve	4Q
GRN/WHT	 IAC2-B	31	Spark Output #2, IAC2B on MS board	4R
GRN	 INJ 1	32	Injector bank #1, combined with pin 33	4U
GRN	 INJ 1	33	Injector bank #1, combined with pin 32	4W
BLU	 INJ 2	34	Injector bank #2, combined with pin 35	4V
BLU	 INJ 2	35	Injector bank #2, combined with pin 34	4X
BRN	 PIN 36	36	Spark Output #1, IGN on MS board	4N
VIO	 FUEL PUMP	37	fuel pump	4T

!! Wire colors swapped from Miataturbo.net writeup !!
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