

Derks Custom Cars, Biggar, matt@derkscustomcars.com

97 vortec to 98 PCM to 411 PCM

Blue Connector 32 pin

97 C1	Colour	Funtion	98 PCM	Colour	411 PCM	Funtion
1	-					
2	-					
3	brn/wh	cam sig B	√		c1-73	
4	pnk	ign	√			
5	dk bl/wh	#8 inj	c2-9		c1-77	
6	-					
7	tan	b2s1 low	√		c1-26	
8	pnk/blk	cam return A	√		c1-61	
9	-			ppl	c2-38	out to fuel gauge
10	tan/blk	TCC sol	√		c2-42	4L60 only
11	-					
12	dk gn/wh	Evap sol ctrl				
13	wh	3-2 sol	√		c1-79	4L60 only
14	-					
15	wh	vss signal - abs	√		c2-49	
16	-					
17	-					
18	gry	egr sol ctrl A				
19	ppl/wh	b1s1 Hi	√		c1-69	
20	ppl	b1s2 Hi	√		c1-68	
21	ppl	b2s1 Hi	√		c1-66	
22	ppl/wh	b2s2 Hi	√		c1-65	
23	blk/wh	gnd				
24	tan	b1s2 low	√		c1-28	
25	ppl/wh	b1s1 low	√		c1-29	
26	tan/wh	b2s2 low	√		c1-25	
27	-					
28	ppl	crank sens return	√		c1-21	
29	lt gn/blk	vss return	√		c2-20	
30	ppl/wh	vss signal	√		c2-21	
31	yel	crank sensor signal	√		c1-12	

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Red Connector 32 pin

97 C2	Funtion	98 PCM	411 PCM	
1	-			
2	-			
3	blk	#1 inj	c2-8	c1-36
4	yel/blk	2-3 solenoid	v	c2-47
5	-			
6	lt gn	1-2 solenoid	v	c2-48
7	brn	tcc pwm sol	v	c2-2
8	-			
9	dk gn/wh	ac comp relay	c3-1	c2-43
10	brn	egr pos	v	c1-55
11	lt gn/blk	#2 inj	v	c1-3
12	red/blk	#7 inj	v	c1-44
13	lt gn/wh	iac a hi	v	c2-76
14	lt bl/wh	iac a hi	v	c2-79
15	bk/wh	#5 inj	v	c1-76
16	yel/blk	#6 inj	v	c1-37
17	-			
18	-			
19	dk bl	knock sensor	v	c1-51
20	-			
21	lt gn	map sensor inp	v	c2-32
22	tan	iat sensor signal	v	c2-25
23	yel	ect sensor signal	v	c1-74
24	dk bl	tps sens	v	c2-24
25	-			
26	blk	vcm gnd	n/a	
27	yel/blk	TFT sensor	v	c2-51
28	yel	maf signal	v	c2-31
29	lt gn/blk	iac b low	v	c2-77
30	lt bl/blk	iac b low	v	c2-78
31	lt bl/blk	#4 inj	v	c1-43
32	pnk/blk	#3 inj	v	c1-4

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Clear Connector 32 pin

97 C3	Funtion	98 PCM	411 PCM
1	-		dk gn/wh c2-43 ac relay ctrl
2	-		dk gn/wh evap purge
3	-		
4	blk	ect/tps ref	√ c1-80
5	-		
6	rd/blk	force motor	√ c2-6
7	blu/wh	iss return (4l80)	√ c2-23 4L80 only
8	red/blk	iss signal (4l80)	√ c2-22 4L80 only
9	wh	est output	√ c2-26
10	-		
11	rd	pressure switch	c1-18
12	gry	5v ref tps	
13*	brn/wh*	12v clutch not pressed*	c4-22
14	dk bl	AC	
15	brn	evap vac switch	n/a
16	lt bl/wh	force motor return	√ c2-8
17	bk/wh	gnd	√
18	bk	gnd	√
19	bk	sens gnd, iat,map,egr	√ c1-53,80
20	-		
21	org	B+	√
22	dk bl	pressure switch	√ c1-17
23	pnk	pressure switch	√ c2-63
24	-		
25	dk gn/wh	ac request	√ c2-17
26	-		
27	gry	5v ref map,egr,etc	√ c1-46-48
28	-		
29	-		
30	dk gn	ac switch signal	√
31	-		
32	-		

* 98 PCM C3-13 fuel level in, move to c2-54 411 PCM

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Black Connector 24 Pin

97 C4	Funtion	98 PCM	411 PCM		
1	dk gn/wh	fuel pump ctrl	√	c2-9	
2	-				
3	dk gn/wh	vss out cruise	√	c2-50	
4	dk gn/wh	vss out speedo	√	c2-50	
5	brn/wh	cel	√	c2-46	
6	-				
7	dk gn	ac	√	c2-55	
8	-				
9	-				
10	ppl	brake sw, 12v not appl	√	c1-33	
11	ppl	data obd2 pin 2	√	c1-59	
12	bk	vcm gnd	n/a		
13	brn	ign 12v	√		
14	-				
15	tan/blk	shift indicator manual	√		
16	-		√		
17	-				
18	pnk	ign 12v	√		
19	bk/wh	4wd axle signal	√		
20	-				
21	-				
22	-				
23	gry/blk	4wd low signal	√		
24	lt bl/bk	cruise	√	c2-13	
	wh	from ign coil		c2-10	tach out
				c2-1	GND
				c2-40	GND
				c1-57	B+

Not needed, can be tuned out

A few sensors share 5v ref and ground reference.

Use at your own risk, verify with multimeter, there might be variations out there.

411 PCM, C1 is Blue 80 pin, C2 is Red 80 pin