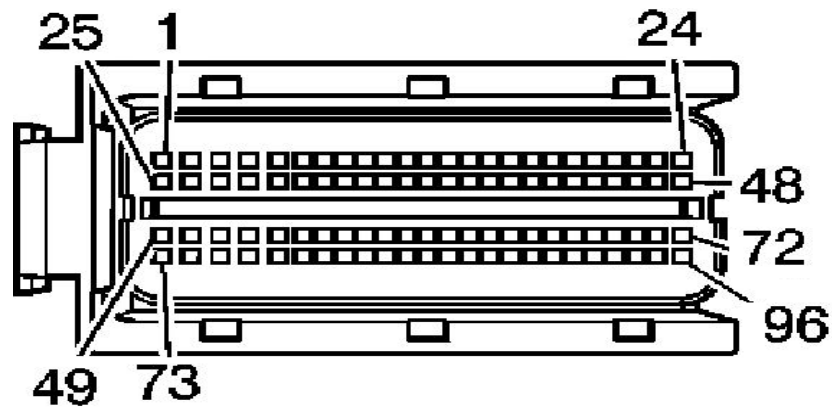


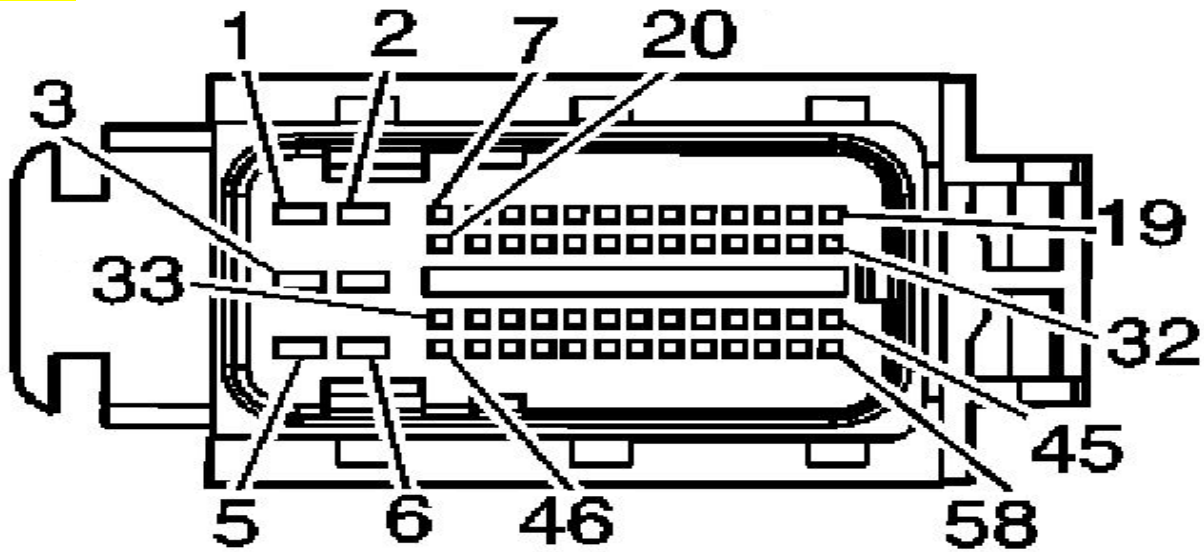
X1



	colour	function
1	org	fuel inj volts 1&4
2	dk bl/wh	inj 8
3	org/blk	inj 7
5	yel	MAF signal - MAF pin 1
6	org/blk	low ref - MAP pin A
9	brn	oil level switch
11	gry/blk	low ref - CKP pin 2
12	gry	5v ref 3 - MAP pin C
13	tan	5v ref 3 - turbo vane pos sensor pin D
14	gry	5v ref 2 - DPF pressure sensor pin 3
15	gry/wh	5v ref 2 - EOP pin 3
17	gry	5v ref 1 - intake air valve pin F
19	lt gn	MAP signal - MAP pin B
20	yel	turbo vane pos sensor signal - pin B
21	lt blu	APP sensor 2 signal - APP pin B
23	blk	low ref - EOP pin 1
24	ppl/wh	FPR volts - FPR pin 2
25	pnk	inj volts 3&8
26	yel/blk	inj 6
27	pnk/blk	inj 3
30	org/blk	low ref - FPR sensor pin 1
33	gry/blk	low ref - MAF pin 2
35	yel	low ref - DPF pressure pin 1
36	tan	low ref - intake air valve pin 6
37	gry	5v ref 3 - EGR valve pin A
38	tan	5v ref 2 - APP pin C
39	tan or blu	5v ref 2 - FPR sensor pin 3
40	ppl/wh	5v ref 1 - CKP sensor pin 3
41	dk bl	5v ref 1 - CMP sensor pin 3
42	tan/blk	IAT sensor signal - MAF pin 5
43	dk bl	DPF sensor signal - DPF pressure pin2
44	tan/wh	oil pressure signal - EOP pin 2
45	lt gn	ECT signal - NOT USED!!!
47	tan	low ref ECT - ECT pin A
48	dk blu	turbo vane position solenoid - pin A

X1	49	ppl	Fuel inj volts 3 inj 2&5
	50	tan/wh	inj 5
	51	lt blu/blk	inj 4
	53	yel/blk	low ref IAT 2 - IAT 2 pin 2
	56	dk blu/wh	CMP sensor signal - CMP pin 1
	57	gry/blk	4WD low signal - GND in low range
	62	tan	low ref MAF - MAF pin 4
	63	org/blk	low ref turbo vane position - pin C
	65	lt blu	IAT sensor signal 2 - IAT 2 pin 1
	66	ppl/wh	EGR temp 1 - EGR temp sensor 1 pin 1
	67	brn/wh	EGR position signal - EGR valve pin C
	68	yel	ECT signal - ECT sensor pin B
	69	dk blu	EGT sensor 1 signal - EGT pin A
	70	brn	low ref - EGT sensor 1 pin B
	71	yel/blk	starter enable - only used with BCM
	72	yel	fuel pressure - FPR sensor pin 1
	73	yel	fuel inj volts 2 inj 6&7
	74	tan	inj 1
	75	lt gn/blk	inj 2
	76	pnk	IGN 1 volts - 12v in run and start 15A fuse
	77	red/wh	B+ 10A fuse
	78	ppl	low ref APP - APP pin A
	79	wh/blk	CKP signal - CKP pin 1
	82	tan/wh	axle switch signal - GND when axle locked
	83	lt blu/wh	TCC brake signal - 12v brakes applied
	84	dk gn/wh	PTO engine off signal
	85	yel/blk	water in fuel - WIF sensor pin A, pin B to ground
	86	tan	low ref - EGR valve pin B
	88	brn	low ref - CMP pin 2
	90	dk blu	sens 2 supply voltage - EGR temp sensor pin 1
	91	dk/gn	TP sensor signal - intake air valve pin E
	92	yer or brn	FPR sensor signal - FPR sensor pin 2
	93	lt blu	EGT sensor 2 signal - EGT 2 pin A
	94	brn/wh	low ref - EGT 2 pin B
	95	brn	low ref - EGR temp 1 pin 2
	96	wh	low ref - turbo vane solenoid pin B

X2



	colous	Funtion	
X2	1	pnk	IGN 1 - hot in start and run 25A, tied together with pin 3 & 5
	2	blk/wh	GND
	3	pnk	IGN 1
	4	blk/wh	GND
	5	pnk	IGN 1
	6	blk/wh	GND
	7	brn	motor ctrl 2 - intake air valve pin B
	8	brn	charge indicator - pin 1 alternator
	12	dk gn/wh	fuel pump - 12v to fuel balance relay
	13	tan	low ref - AC system
	15	wh/blk	5v ref 3 - APP pin D
	16	dk bl	wait to start indicator - GND side of light
	19	yel	power train ctrl relay GND side
	20	yel	motor ctrl 1 - intake air valve pin A
	21	pnk	IGN 1 - hot in start and run 15A
	27	gry	5v ref 2 - AC system
	29	brn	low ref - APP pin F
	30	brn/wh	MIL ctrl - GND side of MIL light
	31	dk gn/wh	AC relay ctrl
	33	org/blk	EGR motor high - EGR pin D
	34	tan/blk	low ref - fuel level sensors
	35	org/blk	AC ref v pressure
	36	ppl	fuel level signal
	38	gry	alternator signal - pin 2 alternator
	39	org/blk	P/N signal only used with BCM
	44	tan	data bus - TCM pin 27 or OBD2 port pin 14 w/o TCM
	45	org/blk	vss signal out
	46	lt gn/blk	EGR motor low - EGR pin F

X2	47	brn	lof ref - fuel rail temp pin 2
	48	yel	fuel temp signal - fuel rail temp pin 1
	49	dk blu	APP sensor sig 1 - APP pin E
	50	lt blu/wh	fuel level signal
	52	wh	low ref - EGR temp 2 pin 2
	54	yel/blk	vss out
	56	dk blu	acc wake up serial data + IGN and TCM pin 43
	57	tan/blk	data bus + TCM pin 6 or OBD2 port pin 6 w/o TCM