

<b>ECUA</b>	Haltech Elite 1500 A Connector			
<b>Connector</b>	AMP SuperSeal 1.0 34 Way	A-Keying	4-1437290-0	
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
A1	3-1447221-4		FPMP.2	Fuel pump speed control DPO1
A2	3-1447221-4		EOP.B	Engine Oil Pressure Sensor Signal
A3	3-1447221-4		IGNSIG.3	(L1) Ignition Signal
A4	3-1447221-4		IGNSIG.4	(L2) Ignition Signal
A5	3-1447221-4		IGNSIG.5	(T1) Igniton Signal
A6	3-1447221-4		IGNSIG.6	(T2) Ignition Signal
A7	3-1447221-4		N/C	No connection
A8	3-1447221-4		N/C	No connection
A9	3-1447221-4		TPS.3	Throttle Pos. Sensor 5V supply
			EOP.A	Oil pressure sensor 5V supply
			FP.A	Fuel pressure sensor 5V supply
			EMAP.A	Exhaust Back Pressure sensor 5V supply
A10	3-1447221-4		BATT(-).2	To negative battery terminal
A11	3-1447221-4		BATT(-).2	To negative battery terminal
A12	3-1447221-4		Available 8V sensor supply	
A13	3-1447221-4		BODY3.1	12V input from ignition switch on ON and cranking
A14	3-1447221-4		TPS.4	Throttle Position Sensor signal
A15	3-1447221-4		Available AVI	
A16	3-1447221-4		EMAP.B	Exhaust Back Pressure sensor signal
A17	3-1447221-4		FP.B	Fuel pressure sensor signal
A18	3-1447221-4		BODY3.12	OEM Tachometer Output - DPO1
A19	3-1447221-4		Fr.Prim.Inj.1	Injector 1-Front Primary Signal
A20	3-1447221-4		Rear.Prim.Inj.1	Injector 2-Rear Primary Signal
A21	3-1447221-4		Fr.Sec.Inj.1	Injector 3-Front Secondary Signal
A22	3-1447221-4		Rear.Sec.Inj.1	Injector 4-Rear Secondary Signal
A23	3-1447221-4		Boost.Ctrl.Sol.2	Boost Control Solenoid - DPO3
A24	3-1447221-4		RLY.FPMP.85	Fuel Pump Trigger DPO5
A25	3-1447221-4		PWR.RLY.ECU.85	This Pin Grounds the MAIN relay when using 12V ignition switch on pin A13 in turn switching the relay to power ON
A26	3-1447221-4		PWR.RLY.INJ.87	ECU Injector Power Input. Required for ECU to operate
A27	3-1447221-4		N/C	No connection
A28	3-1447221-4		N/C	No connection
A29	3-1447221-4		N/C	No connection

A30	3-1447221-4		N/C	No connection
A31	3-1447221-4		Idl.Spd.Ctrl.2	Idle Speed Control Stepper DPO
A32	3-1447221-4		BODY3.11	Check Engine Light Output
A33	3-1447221-4		BODY3.9	Fan Speed 2. ECU trigger for cooling fan Relay No.3. Since this is a stepper output it needs to be setup to Output Ground on the Haltech
A34	3-1447221-4		DTCNT.2	Double throttle control
<b>ECUB</b>				
Haltech Elite 1500 B Connector				
<b>Connector</b>	AMP SuperSeal 1.0 26 Way	B-Keying	4-1437290-1	
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
B1	3-1447221-4		TRIGG.1	E-shaft angle sensor signal on hall effect sensor
B2	3-1447221-4			
B3	3-1447221-4		IAT.1	Inlet Air Temperature Signal
B4	3-1447221-4		ECT.1	Coolant Temp Signal
B5	3-1447221-4			
B6	3-1447221-4			
B7	3-1447221-4		FLEX.OUT	Flex fuel composition/temperature sensor input to ECU
B8	3-1447221-4		BODY3.6	Vehic Speed Input
B9	3-1447221-4		GBOX.5	Neutral Select switch connection to GBOX
B10	3-1447221-4		Available SPI	Available pulsed input
B11	3-1447221-4		PWR.RLY.ECU.87	12V Switched Power from Main Relay when using pin A13 from ignition key switch
			TRIGG.3	E-shaft angle sensor power supply on hall effect sensor
B12	3-1447221-4		BODY3.5	Electrical Load Input
B13	3-1447221-4		BODY3.3	Clutch Switch Input
B14	3-1447221-4		TPS.1	Throttel position sensor ground
			EOP.C	Engine Oil Pressure Sensor Ground
			FP.C	Fuel Pressure Sensor Ground
			EMAP.C	Exhaust Back Pressure sensor 5V supply
			FLEX.GND	Flex fuel composition/temperature sensor ground
B15	3-1447221-4		IAT.2	Intake air temperature ground
			EOT.2	Engine Oil Temperature Sensor Ground
			ECT.2	Coolant Temp ground
			TRIGG.2	E-shaft angle sensor ground on hall effect sensor
			GBOX.6	Neutral Select switch connection to GBOX ground
B16	3-1447221-4		IGNSIG.2	Signal Ground for ignition coils sub harness
B17				
B18				
B19	3-1447221-4		BODY3.8	Fan Speed 1. ECU trigger for cooling fan Relay No.2 and No.4

B20	3-1447221-4		EOT.1	Engine Oil temperature signal for ECU
B21	3-1447221-4			
B22	3-1447221-4			
B23	3-1447221-4		CAN.H	CAN High
B24			CAN.L	CAN Low
B25	3-1447221-4		Available DPO	Drive by Wire 1
B26	3-1447221-4		Available DPO	Drive by Wire 2

Pin	Terminal	Cable	Destination	Description
<b>PWR</b>				
Connector	GEP PDM			
Boot	SCL			
RLY.ECU.30	12077412	14 AWG RED	PWR.FUSE.ECU.2	12V from battery
RLY.ECU.87	12077412	22 AWG RED	PWR.RLY.SOL.86	
		22 AWG RED	PWR.RLY.FPMP.86	
			PWR.RLY.INJ.86	
			PWR.RLY.IGN.86	
			ECU.B11	ECU power supply
		18 AWG RED	PWR.FUSE.OMP.1	
RLY.ECU.86	12084201	22 AWG WHITE	PWR.FUSE.ECU.2	12V from battery
RLY.ECU.85	12084201	18 AWG BLACK	ECU.A25	Pin grounded by ECU ECR output when 12V from ignition switch is applied to pin A13
RLY.SOL.30	12077412	14 AWG RED	PWR.FUSE.SOL.2	
RLY.SOL.87	12077413	22 AWG RED	Boost.Ctrl.Sol.1	
		22 AWG RED	Idl.Spd.Ctrl.1	
			FLEX.VCC	Flex fuel composition/temperature sensor 12V supply
RLY.SOL.86	12084201	22 AWG RED	PWR.RLY.ECU.87 or PWR.FUSE.ECU.2	
RLY.SOL.85	12084201	22 AWG BLACK	PWR.RLY.ECU.85 or ECU.A25	
RLY.INJ.30		14 AWG RED	PWR.FUSE.INJ.2	
RLY.INJ.87		14 AWG RED	Fr.Prim.Inj.2	
			Rear.Prim.Inj.2	
			Fr.Sec.Inj.2	
			Rear.Sec.Inj	
			ECU.A26	
RLY.INJ.86		22 AWG RED	PWR.RLY.ECU.87 or PWR.FUSE.ECU.1	
RLY.INJ.85		22 AWG BLACK	PWR.RLY.ECU.85 or ECU.A25	
RLY.FPMP.30	12077413	10AWG RED	PWR.FUSE.FPMP.2	Power supply to fuel pump
RLY.FPMP.87	12077413	10 AWG RED	FPMP.1	
RLY.FPMP.86	12084201	22 AWG RED	PWR.RLY.ECU.87 or PWR.FUSE.ECU.1	
RLY.FPMP.85	12084201	22 AWG WHITE	ECU.A24	Fuel Pump Trigger from ECU to close relay and power up fuel pump circuit
RLY.IGN30	12077413	14AWG RED	PWR.FUSE.IGN.2	
RLY.IGN.87	12077413	14AWG RED	IGNSIG.9	Power supply to ignition sub harness
RLY.IGN.86	12084201	22 AWG RED	PWR.RLY.ECU.87 or PWR.FUSE.ECU.1	
RLY.IGN.85	12084201	22 AWG BLACK	PWR.RLY.ECU.85 or ECU.A25	
RLY.EWP.30	12077413			
RLY.EWP.87	12077413			
RLY.EWP.86	12084201			
RLY.EWP.85	12084201			
FUSE.ECU.1	12077411	14 AWG RED	BATT(+).1	
FUSE.ECU.2	12077412	14 AWG RED	PWR.RLY.ECU.30	
			PWR.RLY.ECU.86	
FUSE.SOL.1	12077411	18 AWG RED	BATT(+).2	
FUSE.SOL.2	12077412	22 AWG RED	PWR.RLY.SOL.30	
		22 AWG RED		
		22 AWG RED		
FUSE.O2HTR.1	12084201	22 AWG RED	PWR.RLY.ENBL.87	
FUSE.O2HTR.2	12084201	22 AWG RED	O2.4	
FUSE.OMP.1	12077411	18 AWG RED	PWR.RLY.ECU.87	
FUSE.OMP.2	12077411	22 AWG RED	OMP.7	
		22 AWG RED	OMP.8	
FUSE.INJ.1	12077411	14 AWG RED	BATT(+).4	
FUSE.INJ.2	12077412	22AWG RED	PWR.RLY.INJ.30	

**Note on Relays**

I am grounding Pin 85 and supplying voltage to Pin 86. Haltech's Fuse/Relay Box and documentation grounds pin 86 and supplies 12V to pin 85.

I am using this due to the fact that certain diode protected relays need to have ground on pin 85 and 12v on pine 86.

FUSE.IGN.1	12077412	14 AWG RED	BATT(+).4
FUSE.IGN.2	12077412	14 AWG RED	PWR.RLY.IGN.30
FUSE.FPMP.1	12077413	10 AWG RED	BATT(+).3
FUSE.FPMP.2	12077413	10 AWG RED	PWR.RLY.FPMP.30

### BATT(+)

<b>Connector</b>	DTP 4-Way Receptacle	DTP-04-2P		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1 0460-204-12141	14 AWG RED	PWR.FUSE.ECU.1	
	2 0460-204-12141	14 AWG RED	PWR.FUSE.SOL.1	
	3 0460-204-12141	10 AWG RED	PWR.FUSE.FPMP.1	
	4 0460-204-12141	10 AWG RED	PWR.FUSE.IGN.1	
	5 0460-204-12141		PWR.FUSE.INJ.1	

### BATT(-)

<b>Connector</b>	DTP 4-Way Receptacle	DTP-04-2P		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1	14 AWG Black	IGNSIG.10	Ignition Coils Battery Ground
	2	18 AWG BLACK	ECU.A10	Battery Negative connection to ECU
			ECU.A11	Battery Negative connection to ECU

### GND

<b>Connector</b>	Ring Terminal	6mm^2 -> M8		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1 Ring Terminal	22 AWG BLACK	PWR.RLY.ECU.85	
		22 AWG BLACK	PWR.RLY.ENBL.85	

### GND.Frnt.Hsg

<b>Connector</b>	Ring Terminal	6mm^2 -> M8		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1 Ring Terminal	14AWG BLACK	PWR.RLY.IGN.85	
		18 AWG BLACK	IGNSIG.1	

### GND.Rear.Hsg

<b>Connector</b>	Ring Terminal	6mm^2 -> M8		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1 Ring Terminal	14AWG BLACK	PWR.RLY.ECU.85	
		18 AWG BLACK	IGNSIG.7	

### INS.KILL.SW

<b>Connector</b>	Inside 6 Pole FIA kill switch			
<b>Boot</b>	Ring Terminal	6mm^2 -> M8		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	1	2/0 WIRE RED	BATT(+).1	
	2	2/0 WIRE RED		
	3			
	4			
	5			
	6			

<b>PDM</b>							
<b>Connector</b>	EATON's Bussmann Series PDM-AMI Fuse Holder, 200A, 2 Positions	PDM-AMI2-AAC	<a href="https://www.waytekwire.com/item/46322/200A-PDM-AMI-Sealed-IP67/?gclid=CjwKCAIAoOz-&lt;br/&gt;BRBdEiwAyuvA62Jz0oNq8_FT0c7ifOICq&lt;br/&gt;WEV2UuYUukNHoAYMFJ_bUCXKlfDkP-&lt;br/&gt;kmxoCw_UQAvD_BwE">https://www.waytekwire.com/item/46322/200A-PDM-AMI-Sealed-IP67/?gclid=CjwKCAIAoOz- BRBdEiwAyuvA62Jz0oNq8_FT0c7ifOICq WEV2UuYUukNHoAYMFJ_bUCXKlfDkP- kmxoCw_UQAvD_BwE</a>				
<b>Boot</b>	SCL						
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>			
1		2/0 RED	BATT(+)	Positive in from battery			
2		2/0 RED	ECU.A10	Battery Negative connection to ECU			
3			ECU.A11	Battery Negative connection to ECU			

<b>ECTG</b>					
<b>Connector</b>	6mm Spade Tab				
<b>Boot</b>	SCL				
Pin	Terminal	Cable	Destination	Description	Stock Harness Details
1	6mm TAB	22 AWG WHITE	X-14 (EM).3	Engine Coolant Temp Gauge	Y/W (yellow whitestripe) wire coming from sensor on (EM) harness into X-14 connector. GY(gray) wire in between connector X-15 and X14 on (D) harness. GY (gray) wire in between connector X-15 and C1-01 on (I) harness at instrument cluster see wiring diagram page Z-44
<b>GBOX</b>					
<b>Connector</b>	DTM 8-Way Receptacle				
<b>Boot</b>	SCL				
Pin	Terminal	Cable	Destination	Description	Stock Harness Details
1	0460-202-20141	22 AWG WHITE	X-14 (EM).5	Reverse Light Switch	Y/R (yellow red stripe) wire X-14 on (EM) harness side R (red) wire X-14 on (D) harness after reverse switch in trans to backup lights and then ground. See wiring diagram page Z-66
2	0460-202-20141	22 AWG WHITE	X-14 (EM).12	Reverse Light Switch	G/Y (green yellow stripe) on (EM) harness X-14 connector from ignition switch 12V thru 15A fuse before switch. See wiring diagram page Z-66
3	0460-202-20141	22 AWG STP RED	X-14 (EM).6	Gearbox Speed Sensor	O (orange) wire on X-14 (EM) harness. This is speed sensor ground from sensor on transmission. See wiring diagram page Z-44
4	0460-202-20141	22 AWG STP BLUE	X-14 (EM).13	Gearbox Speed Sensor	G (green) wire on X-14 (EM) harness. This is speed sensor signal from sensor on transmission. See wiring diagram page Z-44
5	0460-202-20141	22 AWG WHITE	ECU.B9	Neutral Selected Switch Signal	BR (brown) wire is signal on (EM) harness. Wiring digagram page Z-34. Connector B1-50 G/W (green white) wire on (F) harness connector X-05 . PIN 1R on ECU 22 pin connector B1-01
6	0460-202-20141	22 AWG GREEN	ECU.B15	Neutral Selected Switch Ground	LG (Light green) wire is ground on (EM) harness X-14 wiring digagram page Z-34. Connector B1-50 B (black) wire on (D) harness connector (X-14)
7	0460-202-20141	22 AWG WHITE	NC	1st Switch Signal	This will be wired from the sensor itself to GBOX DTM connector. Ground from sensor will be spliced into neutral switch ground. Will put wires in harnes in case I decide to use later. Current plan is to not have the wires hook up to ECU
8	0460-202-20141	22 AWG WHITE	NC	2nd Switch Signal	This will be wired from the sensor itself to GBOX DTM connector. Ground from sensor will be spliced into neutral switch ground. Will put wire in harness in case I decide to use later. Current plan is to not have the wires hook up to ECU

<b>X-14 (EM)</b>					
<b>X-14 on page Z-117 1993 Wiring Diagram</b>					
<b>Connector</b>	TE Multilock 070 12-Way Plug	173851-5 Number after dash represents color 1=Natural 2=black 4=green 5=blue 6=gray 8=orange		<a href="https://www.mouser.com/ProductDetail/TE-Connectivity-AMP/173851-2?qs=sNHRnKES17Uh8uYSaDHQO%3D%3D">https://www.mouser.com/ProductDetail/TE-Connectivity-AMP/173851-2?qs=sNHRnKES17Uh8uYSaDHQO%3D%3D</a>	
<b>Boot</b>	SCL				
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>	<b>Stock Harness Details</b>
1	N.C	N.C	N.C	N.C	
2	N.C	N.C	N.C	N.C	
3	175026-1	22AWG White	ECTG.1	Coolant Temp Gauge Signal	Y/W (yellow white) wire on (EM) harness coming from sensor into X-14. GY (gray) wire between X-14 and X-15 connector on (I) and (I2) harnesses respectively. Wiring diagram page Z-44
4	N.C	N.C	N.C	N.C	
5	175026-1	22AWG White	GBOX.1	Reverse Switch	Y/R (yellow red stripe) wire X-14 on (EM) harness side R (red) wire X-14 on (D) harness after reverse switch in trans to backup lights and then ground. See wiring diagram page Z-66
6	175026-1	22AWG White	GBOX.3	Speedo Signal	O (orange) wire on X-14 (EM) harness. This is speed sensor ground from sensor on transmission. See wiring diagram page Z-44
7	N.C	N.C	N.C	N.C	
8	N.C	N.C	N.C	N.C	
9	N.C	N.C	BODY3.9	Engine Fan Speed 2	L/G (Blue green stripe) wire on (F) and (D) harnesses between connectors X-07 and X-14. This wire goes to relay No.3 as the trigger (ground) See wiring diagram page Z-42  B/R on (EM) harness connector female side of X-14  L/G wire goes to PIN C on EL Unit connector B1-20 on (D) harness. See wiring diagram page Z-30  Plan is to either use a second output from Haltech based on higher temp than Engine fans speed 1. Or if not enough outputs left find a thermoswitch with a lower temp trigger, like the FC thermoswitch that closes at 97 C.  When this is triggered Relay No.3 will ground the fan motors and engage Medium fan speed if AC button is off and High fan speed if AC button is ON
10	N.C	N.C	N.C	N.C	
11	N.C	N.C	N.C	N.C	
12	175026-1	22AWG White	GBOX.2	Reverse Switch	G/Y (green yellow stripe) on (EM) harness X-14 connector from Ignition switch 12V thru 15A fuse before switch. See wiring diagram page Z-66
13	175026-1	22AWG White	GBOX.4	Speedo Signal	G (green) wire on X-14 (EM) harness. This is speed sensor signal from sensor on transmission. See wiring diagram page Z-44
14	N.C	N.C	N.C	N.C	
<b>BODY3</b>					
<b>Connector</b>	DTM 12-Way Receptacle				
<b>Boot</b>	SCL				
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>	<b>Stock Harness Details</b>
1	0460-202-20141	22AWG RED	ECU.A13	IGN Switch Positive to ECU	L/B (Blue wire black stripe) wire from 40A fuse is 12V power in from battery. B/W (black wire white stripe) of (F) harness is 12V power out from IGN switch on ON and START (see wiring diagram page Z-28). PIN 1B on 22 PIN yellow connector (B1-01) is a good place to pull this IGN switched 12V into the Haltech. PIN 1B B/W wire comes from EGI Main Relay (B1-02) after IGN is set to ON or START . Condenser B1-10 connector is same 12V switched B/W (black wire white stripe) wire.  IGN switch is X-03 connector on (F) harness page Z-29 wiring diagram
2	0460-202-20141	22AWG White	ECU.TBD	AC Request Input	V (violet) wire in (F) harness. PIN 1E on 22 pin connector (B1-01). See wiring diagram page Z-34 and Z-68 A/C button inside car. NOT going to use since my car doesn't have AC
3	0460-202-20141	22AWG White	ECU.B13	Clutch Switch Input	L/O (blue orange stripe) wire in (F) harness X-17 connector. PIN 1Q in 22 pin connector (B1-01) B1-52 connector. Wiring diagram page Z-34
4	0460-202-20141	22AWG White	TBD if I will use	PSteer Pressure Switch Input	L/Y (blue with yellow stripe) wire on (F) harness. PIN 1N in 22 Pin connector B1-01
5	0460-202-20141	22AWG White	ECU.B12	Electrical Load Input	Y (yellow) wire on (EM) harness between X-14 and ECU 16 PIN Connector. PIN 3B on 16 PIN Connector (B1-01). See wiring diagram page Z-30  Also look at included Adaptronic PINOUT showing 3B as the Elec Load Input with yellow wire as well
6	0460-202-20141	22AWG White	ECU.B8	Speed Signal Input	G/R (green red stripe) wire on (F) (I) (D) harness connector X-15 and X-07. PIN 1M on 22 pin connector B1-01 is sensor signal. Wiring diagram page Z-44 Raw sensor signal comes from Y/R wire and Y/W wire on (I) and (D) harness connector X-15 or X-14 and G wire and O wire on (EM) harness X-14 connector. G wire is signal straight from the sensor and O wire is ground straight from the sensors at connector C1-08
7		N.C	N.C	N.C	
8	0460-202-20141	22AWG White	ECU.B19	Engine Fan Speed 1	G/B (green black stripe) wire on (F) harness going to relay No.2 and relay No.4 on wiring diagram page Z-42. This G/B wire is in between connectors X-07 and X-05 .  W/L (white blue stripe) wire on (EM) harness PIN 3D on 16 PIN yellow connector (B1-01 connector). Wiring diagram page Z-30  When this is triggered it will kick engine fan speed to Low if AC button is off (relay No.1) and if relay No.3 is not triggered. Relay No.3 in stock setup is controlled by thermoswitch, and when triggered it grounds the high current from the fan motors.  My plan is to use the Haltech to trigger Relay No.2 and No.4 at a set engine coolant temp TBD



					<p>L/G (Blue green stripe) wire on (F) and (D) harnesses between connectors X-07 and X-14. This wire goes to relay No.3 as the trigger (ground)</p> <p>L/G wire goes to PIN C on EL Unit connector B1-20 on (D) harness. See wiring diagram page Z-30</p> <p>Plan is to either use a second output from Haltech based on higher temp than Engine fans speed 1. Or if not enough outputs left find a thermoswitch with a lower temp trigger, like the FC thermoswitch that closes at 97 C.</p> <p>When this is triggered Relay No.3 will ground the fan motors and engage Medium fan speed if AC button is off and High fan speed if AC button is ON</p>
9	0460-202-20141	22AWG White	ECU.A33	Engine Fan Speed 2	
10	0460-202-20141	22AWG White	ECU.TBD	AC Relay Output from ECU	Y/B (yellow black stripe) wire on (F) harness. PIN 1L on 22 pin yellow connector (B1-01)
11	0460-202-20141	22AWG White	ECU.A32	Check Engine Light Output	O/B wire. Location K on EL Unit see B1-20 on (D) harness wiring diagram page Z-30. X15 on wiring diagram page Z-46
12	0460-202-20141	22AWG White	ECU.A18	Tachometer Output	<p><b>Y/W (yellow with blue stripe) PIN 2B on ECU 12 pin connector (connector B1-01 is ECU connectors) wiring diagram page Z-34</b></p> <p><b>Wire should go to the Y/W (yellow with blue stripe) wire on instrument cluster PIN 3F.</b></p> <p><b>Wiring diagram page Z-44.</b></p>

<b>ECT</b>				
<b>Connector</b>	AMP Econoseal	178449-4		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG WHITE	ECU.B4	Sensor Signal
2		22 AWG GREEN	ECU.B15	Sensor Ground
<b>IAT</b>				
<b>Connector</b>				
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG WHITE	ECU.B3	Sensor Signal
2		22 AWG GREEN	ECU.B15	Sensor Ground
<b>FP</b>				
<b>Connector</b>	Delphi			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
A		22 AWG ORANGE	ECU.A9	Sensor Supply
B		22 AWG WHITE	ECU.A17	Sensor Signal
C		22 AWG GREEN	ECU.B14	Sensor Ground
<b>EOP</b>				

<b>Connector</b>	Delphi			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
A		22 AWG ORANGE	ECU.A9	Sensor Supply
B		22 AWG WHITE	ECU.A2	Sensor Signal
C		22 AWG GREEN	ECU.B14	Sensor Ground
<b>TPS</b>				
<b>Connector</b>	Sumitomo DL09C	6195-0030	<a href="https://www.corsa-technic.com/item.php?item_id=444&amp;category_id=147">https://www.corsa-technic.com/item.php?item_id=444&amp;category_id=147</a>	
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG GREEN	ECU.B14	Sensor Ground
2		N.C	N.C	N/C
3		22 AWG ORANGE	ECU.A9	Sensor 5V Supply
4		22 AWG WHITE	ECU.A14	Sensor Signal
<b>O2WB1</b>				
<b>Connector</b>	Haltech WB1			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG RED	ECU.A26	12V switched from INJ Relay
2		22 AWG BLACK	ECU.A10	Power ground (battery ground)
3		22 AWG WHITE	ECU.B23	CAN High
4		22 AWG RED	ECU.B24	CAN Low

<b>EOT</b>				
<b>Connector</b>				
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG WHITE	ECU.B20	Sensor Signal
2		22 AWG GREEN	ECU.B15	Sensor Ground
<b>EMAP</b>				
<b>Connector</b>	Delphi			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
A		22 AWG ORANGE	ECU.A9	Sensor Supply
B		22 AWG WHITE	ECU.A16	Sensor Signal
C		22 AWG GREEN	ECU.B14	Sensor Ground
<b>TRIGG</b>				
<b>Connector</b>	Delphi Metripack 3 PIN			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		22 AWG Shielded WHITE	ECU.B1	Sensor Signal
2		22 AWG Shielded BLACK	ECU.B15	Sensor Ground
3		22 AWG Shielded RED	ECU.B11	Sensor Power
<b>FLEX</b>				

<b>Connector</b>	Delphi/ Packard	<a href="https://www.bmotorsports.com/shop/product_info.php/xrf/gshp/products_id/2343?gclid=CjwKCAiAoOz-BRBdEiwAyuvA63BDOCr oXkK2rswgsRARlXOzy7fwvEI_hYLKeWICtBtD6knHli vrRxoCMAUQAvD_BwE">https://www.bmotorsports.com/shop/product_info.php/xrf/gshp/products_id/2343?gclid=CjwKCAiAoOz-BRBdEiwAyuvA63BDOCr oXkK2rswgsRARlXOzy7fwvEI_hYLKeWICtBtD6knHli vrRxoCMAUQAvD_BwE</a>		
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
VCC		22 AWG RED	PWR.RLY.SOL87	Sensor Power
GND		22 AWG BLACK	ECU.B14	Sensor Ground
OUT		22 AWG WHITE	ECU.B7	Sensor Signal

<b>IGNSIG</b>				
<b>Connector</b>	DTM 12-Way			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
1		18 AWG BLACK	GND.Frnt.Hsg	L1 T1 Coils Pin C Ground to Rotor Hsg 1 (Front)
2		18 AWG GREEN	ECU.B16	Sensor Ground
3		20 AWG WHITE	ECU.A3	(L1) Ignition
4		20 AWG WHITE	ECU.A4	(L2) Ignition
5		20 AWG WHITE	ECU.A5	(T1) Igniton
6		20 AWG WHITE	ECU.A6	(T2) Ignition
7		18 AWG BLACK	GND.Rear.Hsg	L2 T2 Coils Pin C Ground to Rotor Hsg 2 (Rear)
8		NC	NC	
9		14 AWG RED	PWR.RLY.IGN.87	Power Supply IGN Relay
10		14 AWG BLACK	BATT(-).1	Battery Negative (Ground)
11		NC		
12		NC		
<b>L1 IGN</b>				
<b>Connector</b>	IGN-1A Plug			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
A		20 AWG WHITE	IGNSIG.3	Ignition Trigger from ECU
B		20 AWG GREEN	IGNSIG.2	Sensor Ground
C		20 AWG BLACK	IGNSIG.1	Ground to Front Hsg
D		18 AWG BLACK	IGNSIG.10	Battery Ground
E		18 AWG RED	IGNSIG.9	12V Power
<b>L2 IGN</b>				

<b>Connector</b>	IGN-1A Plug			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	A	20 AWG WHITE	IGNSIG.4	Ignition Trigger from ECU
	B	20 AWG GREEN	IGNSIG.2	Sensor Ground
	C	20 AWG BLACK	IGNSIG.7	Ground to Rear Hsg
	D	18 AWG BLACK	IGNSIG.10	Battery Ground
	E	18 AWG RED	IGNSIG.9	12V Power
<b>T1 IGN</b>				
<b>Connector</b>	IGN-1A Plug			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	A	20 AWG WHITE	IGNSIG.5	Ignition Trigger from ECU
	B	20 AWG GREEN	IGNSIG.2	Sensor Ground
	C	20 AWG BLACK	IGNSIG.1	Ground to Front Hsg
	D	18 AWG BLACK	IGNSIG.10	Battery Ground
	E	18 AWG RED	IGNSIG.9	12V Power
<b>T2 IGN</b>				
<b>Connector</b>	IGN-1A Plug			
<b>Boot</b>	SCL			
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>
	A	20 AWG WHITE	IGNSIG.6	Ignition Trigger from ECU
	B	20 AWG GREEN	IGNSIG.2	Sensor Ground
	C	20 AWG BLACK	IGNSIG.7	Ground to Rear Hsg
	D	18 AWG BLACK	IGNSIG.10	Battery Ground
	E	18 AWG RED	IGNSIG.9	12V Power

<b>Fr.Prim.Inj</b>						
<b>Connector</b>	USCAR Injectory Dynamics Connector					
<b>Boot</b>	SCL					
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>		
	1	20 AWG WHITE	ECU.A19	Injector 1 command		I
	2	20 AWG RED	PWR.RLY.INJ.87	12V from fuse box		
<b>Rear.Prim.Inj</b>						
<b>Connector</b>	USCAR Injectory Dynamics Connector					
<b>Boot</b>	SCL					
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>		
	1	20 AWG WHITE	ECU.A20	Injector 2 command		
	2	20 AWG RED	PWR.RLY.INJ.87	12V from fuse box		
<b>Fr.Sec.Inj</b>						
<b>Connector</b>	USCAR Injectory Dynamics Connector					
<b>Boot</b>	SCL					
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>		
	1	20 AWG WHITE	ECU.A21	Injector 3 command		
	2	20 AWG RED	PWR.RLY.INJ.87	12V from fuse box		
<b>Rear.Sec.Inj</b>						
<b>Connector</b>	USCAR Injectory Dynamics Connector					
<b>Boot</b>	SCL					
<b>Pin</b>	<b>Terminal</b>	<b>Cable</b>	<b>Destination</b>	<b>Description</b>		
	1	20 AWG WHITE	ECU.A22	Injector 4 command		



	2		20 AWG RED	PWR.RLY.INJ.87	12V from fuse box		
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<b>Boost.Ctrl.Sol</b>					
Connector	DTM 2-Way Receptacle				
Boot	SCL				
Pin	Terminal	Cable	Destination	Description	
	1	22 AWG RED	PWR.RLY.SOL.87	Power Supply	
	2	22 AWG WHITE	ECU.A23	Actuator Command	
<b>DTCNT</b>					
Connector	AMP Econoseal 174352-2				
Boot	SCL				
Pin	Terminal	Cable	Destination	Description	Stock Harness Details
	1	22 AWG RED	PWR.RLY.SOL.87	Power Supply	
	2	22 AWG WHITE	ECU.A34	Actuator Command	B/R (black red stripe) wire on (EM) harness PIN 30 on ECU connector B1-01 See wiring diagram page Z-32
<b>Idl.Spd.Ctrl</b>					
Connector	Bmotorsports Pa <a href="https://www.bmotorsports.com/shop/product_info.php/products_id/3232">https://www.bmotorsports.com/shop/product_info.php/products_id/3232</a>				
Boot	SCL				
Pin	Terminal	Cable	Destination	Description	
	1	22 AWG RED	PWR.RLY.SOL.87	Power Supply	
	2	22 AWG WHITE	ECU.A31	Actuator Command	
<b>FPMP</b>					
Connector	Ring Terminals				
Boot	SCL				
Pin	Terminal	Cable	Destination	Description	
	1	10 AWG RED	PWR.RLY.FPMP.87	Power Supply from relay	
	2	18 AWG WHITE	ECU.A1	Speed control DPO1	
	3	10 AWG BLACK	FPMP.Ground	Fuel Pump Ground to chassis	



<b>X-14 (EM) Harness Female Side</b>		
<b>My Pin Numbering</b>	<b>Wire Color</b>	<b>Function</b>
1	No Wire	Blank
2	BR/Y	Fuel Thermosensor
3	Y/W	Water Temp Gauge to water temp switch
4	LG	Neutral Switch to Ground
5	Y/R	Backup light switch to backup lights
6	O	Vehicle speed sensor ground to Speedo
7	Y	ECU to EL Unit
8	L/G	Daylight Running lights (Canada)
9	B/R	Cooling Fan relay #3 to thermostat (will use a DPO from Haltech to replace thermostat)
10	W	1-2 Switch to ground 1st
11	L	1-2 Switch to ground 2nd
12	G/Y	JB-07 meter fuse to back up light switch
13	G	Vehicle speed sensor signal to Speedometer through X-15
14	B	Speedometer, fuel gauge ground
<b>B1-01 (F) Harness</b>		
<b>PIN</b>	<b>Wire Color</b>	<b>Function/Destination</b>
<b>1A</b>	<b>L/R</b>	12v 10A fused from Battery + after JB-05 to JB-07 page Z-28
<b>1B</b>	<b>B/W</b>	EGI Main relay 12V switched from key in ON or START page Z-28
<b>1C</b>	<b>B/R</b>	Ignition switch 12V while cranking only
<b>1D</b>	<b>W/R</b>	Diag
<b>1E</b>	<b>V</b>	A/C ground, speed sensor ground. 12V when A/C switch OFF
<b>1F</b>	<b>W/B</b>	Diag
<b>1G</b>	<b>BR</b>	Igniter front trailing
<b>1H</b>	<b>LG</b>	Igniter leading
<b>1I</b>	<b>LG/Y</b>	Diag (TEN terminal)
<b>1J</b>	<b>BR/B</b>	Igniter rear trailing
<b>1K</b>	<b>L/W</b>	Circuit Opening Relay Trigger to power the Fuel pump relay page Z-28
<b>1L</b>	<b>Y/B</b>	A/C relay
<b>1M</b>	<b>G/R</b>	Speedometer sensor signal from cluster
<b>1N</b>	<b>L/Y</b>	Power steering pressure switch
<b>1O</b>	<b>G/Y</b>	MAP pressure sensor
<b>1P</b>		No connection
<b>1Q</b>	<b>L/O</b>	Clutch switch (12V when clutch is released, below 1V when depressed)
<b>1R</b>	<b>G/W</b>	Neutral Switch (12V when in gear, below 1V when in neutral)
<b>1S</b>	<b>G/W</b>	Stoplight Switch (12V when brake applied, below 1V when released)

	<b>1T</b>	<b>L/B</b>	Circuit Opening Relay page Z-28				
	<b>1U</b>	<b>L</b>	Fuel thermosensor				
	<b>1V</b>		No connection				