board	internal name	connector type	pin internal sign name	function	Use?	Harness Name	Harness Color	wiring	testing										
			1 XDCR_PWR	Accel pedal power	n														
			2 AGND	Accel pedal gnd	у	TEMP-	black	wired											
			3 AIN4	Analog input 4 0-5Vfs	n														
			4 AOUT	Analog output 0-5V	n														
			5 RTD1	RTD Input (PT100 or PT1000)	n														
			6 RTD2	RTD Input (PT100 or PT1000)	n														
			7 /PROG_ENA	Serial boot loader enable	n														
			8 DIN2	Reverse enable switch	n														
			9 DIN5	Ignition input	n														
			10 DIN8	User-defined digital input	n														
			11 CANA_L	CAN Channel A low	У	CAN_N	black	wired											
			12 TXD	RS232 Transmit	n	*****													
Right MC (MC2)			13 AIN1	Accel pedal wiper	n														
			14 XDCR_PWR	Spare 5V transducer power	n														
			15 AGND	Analog ground	n														
			16 AIN6	Analog ground Analog input 6 0-5Vfs	n														
			17 AGND		n														
	14	35 pos AMPSEAL 77614-1		Analog ground				6t///9/											
	J1		18 AIN5	Analog input 5 0-5Vfs	n			60///9/											
			19 AGND	Analog ground	n														
			20 DIN3	Brake switch	n														
			21 DIN6	Start input	n														
			22 GND	Ground	У														
			23 CANB_H	CAN Channel B high	n														
			24 AIN2	Motor temperature sensor	у	TEMP+	red	wired											
			25 AIN3	Brake pedal	n					Note - a 3.01kOhm pullup must be added between pin 24 and pin 1									
			26 XDCR_PWR	Spare 5V transducer power	n					Title a die menin panap maet be daded betiteen pin 21 and pin 1									
			27 RLY6	Hi-side relay driver, controlled by CAN	n														
			28 XDCR_PWR	Spare 5V transducer power	n														
			29 RLY5	Hi-side relay driver, controlled by CAN	n														
			30 DIN1	Forward enable switch	n														
			31 <i>DIN4</i>	REGEN disable input	n														
			32 DIN7	Digital input 7	n														
			33 CANA_H	CAN Channel A high	у	CAN_P	red	wired											
			34 CANB_L	CAN Channel B low	n														
			35 RXD	RS232 Receive	n														
			1 XDCR_PWR	Encoder power, 5V @ 80mA max	n														
Right MC (MC2)		23 pos AMPSEAL 770680-1	2 ENCZ	Encoder channel Z input	n					///////////////////////////////////////									
			3	Resolver excitation return	у	EXC-		wired											
			4 COS	Resolver cosine winding +	у	COS+													
			5 <reserved></reserved>	DO NOT CONNECT	n														
												6 GND	Main 12V Return		-		-		
			7 RLY2	Main relay drive	n														
			8 BATT+	Main 12V power source	n	_		-											
			9 ENCA	Encoder channel A input	n														
			10 GND	Encoder GND	n														
				11 SIN	Resolver sine winding +	v	SIN+		wired										
			OS 40 /000	Resolver cosine winding -	V	COS-		wired											
	J2		13 <reserved></reserved>	DO NOT CONNECT	n	000		WIICG											
			14 GND	Main 12V Return	V	GND_MC2		wired											
			15 RLY3	Lo-side relay driver / 12V power relay drive	n	GIVD_IMG2		wired											
			16 ENCB	Encoder channel B input	n														
			17 EXC		N .	EXC+		wired											
				Resolver excitation output	У														
			18 /SIN 19 GND	Resolver sine winding -	y	SIN- SHIELD		wired											
				Resolver shield GND	y	SHIELD		wired											
			20 <reserved></reserved>	DO NOT CONNECT	n														
			21 RLY1	Precharge Contactor Drive	n														
			22 RLY4	Fault indicator drive	n														

board	internal name	connector type	pin internal signal name	function	Use?	Harness Name	Harness Color	wiring	testing	
			23 BATT+	Main 12V power source	v	VCC12_MC2		wired		
					,					
			1 XDCR_PWR	Accel pedal power	n					
			2 AGND	Accel pedal gnd	у	TEMP-	black	wired		
			3 AIN4	Analog input 4 0-5Vfs	n					
			4 AOUT	Analog output 0-5V	n					
			5 RTD1	RTD Input (PT100 or PT1000)	n					
			6 RTD2	RTD Input (PT100 or PT1000)	n					
			7 /PROG_ENA	Serial boot loader enable	n					
			8 DIN2	Reverse enable switch	n					
			9 <i>DIN5</i>	Ignition input	n					
			10 DIN8	User-defined digital input	n					
			11 CANA_L	CAN Channel A low	у	CAN_N	black	wired		
			12 TXD	RS232 Transmit	n					
		35 pos	13 AIN1	Accel pedal wiper	n					
			14 XDCR_PWR	Spare 5V transducer power	n					
			15 AGND	Analog ground	n					
			16 AIN6	Analog input 6 0-5Vfs	n					
			17 AGND	Analog ground	n					
Left MC (MC1)	J1	35 pos AMPSEAL	18 AIN5	Analog input 5 0-5Vfs	n					
		77614-1	19 AGND	Analog ground	n					
			20 DIN3	Brake switch	n					
			21 <i>DIN6</i>	Start input	n					
			22 GND	Ground	n					
			23 CANB_H	CAN Channel B high	n					
			24 AIN2	Motor temperature sensor	у	TEMP+	red	wired		
			25 AIN3	Brake pedal	n					Note - a 3.01kOhm pullup must be added between pin 24 and pin 1
			26 XDCR_PWR	Spare 5V transducer power	n					
			27 RLY6	Hi-side relay driver, controlled by CAN	n					
			28 XDCR_PWR	Spare 5V transducer power	n					
			29 RLY5	Hi-side relay driver, controlled by CAN	n					
			30 DIN1	Forward enable switch	n					
			31 <i>DIN4</i>	REGEN disable input	n					
			32 DIN7	Digital input 7	n					
			33 CANA_H	CAN Channel A high	у	CAN_P	red	wired		
			34 CANB_L	CAN Channel B low	n					
			35 RXD	RS232 Receive	n					
			1 XDCR_PWR	Encoder power, 5V @ 80mA max	n					
Left MC (MC1)		23 pos AMPSEAL 770680-1	2 ENCZ	Encoder channel Z input	n	EVO				
			3 GND	Resolver excitation return	У	EXC-		wired		
			4 COS	Resolver cosine winding +	y	COS+		wired		
			5 <reserved> 6 GND</reserved>	DO NOT CONNECT	n					
				Main 12V Return	n n	-				
			7 RLY2	Main relay drive	n v	VCC12 MC1		wired		
			8 BATT+	Main 12V power source	,	VCC12_MC1		wired		
			9 ENCA 10 GND	Encoder channel A input	n n					
			10 GND 11 SIN	Encoder GND	W.	SIN+		wired		
			11 S/N 12 /COS	Resolver cosine winding +	y	COS-		wired		
	J2		12 /COS 13 <reserved></reserved>	Resolver cosine winding - DO NOT CONNECT	n	003-		wiieu		
			14 GND	Main 12V Return		GND_MC1		wired		
				Lo-side relay driver / 12V power relay	y	OIAD_IAIC I		Wileu		
			15 RLY3	drive	n					
			16 ENCB	Encoder channel B input	n					
			17 EXC	Resolver excitation output	У	EXC+		wired		
			18 /SIN	Resolver sine winding -	У	SIN-		wired		
			19 <i>GND</i>	Resolver shield GND	У	SHIELD		wired		
			20 <reserved></reserved>	DO NOT CONNECT	n					

board	internal name	connector type	pin	internal signal name	function	Use?	Harness Name	Harness Color	wiring	testing	
			21	RLY1	Precharge Contactor Drive	n					
			22	RLY4	Fault indicator drive	n					
			23	BATT+	Main 12V power source	n					