

<b>Title:</b>	----
<b>Part Number:</b>	010-53-001
<b>Description:</b>	Control Harness

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage	SPN
1	Backshell	Bosch	1928 405 163	56 Pin Cover Outlet Straight	1	820	
2	Connector	Bosch	1928 405 162	Holding Plate 56 Way Connector	1	See Drawing	
3	Connector	Bosch	1928 405 217	Connector, 56-Way Mod B, Code 13, Exit Right, Black	1	820	
4	Connector	TE Connectivity / DEUTSCH	HD34-18-8PN-059	Circular Connector, RECP ASM DEUTSCH HDSeries / HD30 Series	1	800	440-74-276
5	Connector	TE Connectivity - Deutsch	DT06-4S	Plug 4 Socket	2	826, 827	440-74-004
6	Connector	TE Connectivity - Deutsch	DT06-3S	440-74-056 Plug 3 Socket	6	822, 823, 824, 825, 840, 861	
7	Connector	TE Connectivity	776164-1	Conn Housing PL 35 POS 4mm Crimp ST Cable Mount Automotive Package	1	821	
8	Connector	Waytek	46033	Inline Fuse ATC Fuse Holder	2	801, 803	170279
9	Connector	TE Connectivity - Deutsch	DT06-2S	Plug 2 Cord Socket	2	850, 851	440-74-002
10	Connector	Amphenol Sine Systems	AT04-3P-RJ120	3-Way Receptacle, Male Connector with 120 OHM Terminating Resistor (J1939)	4	822_C, 823_C, 824_C, 825_C	
11	Connector	TE Connectivity - Deutsch	DT04-3P	3 Pin Receptacle	1	840_C	440-74-055
12	Connector	TE Connectivity	1-1456426-5	MCON - Connector 4 Pos Sld 1.2mm c/d body MCON Key ACM	1	860	
13	Connector	TE Connectivity - Deutsch	DT04-2P-RT02	440-73-005 2 Pin Diode Receptacle	1	851_D	
15	Contact	TE Connectivity	1241608-1	18-15 AWG Straight Clean Body Receptacle Power Quadlok System	5	See Wiring Table	
16	Contact	TE Connectivity - Deutsch	0462-201-16141	#16 Contact Socket 20-16 AWG	12	See Wiring Table	440-74-014-01
17	Contact	TE Connectivity	770678-1	Connector Accessories Seal Nylon 6/6 Natural Automotive Package	29	See Wiring Table	
18	Contact	TE Connectivity	770654-1	Socket Contact Crimp Contact 20 AWG Min 16 AWG Max 2.50 mm 250V AC/DC 17A	6	See Wiring Table	
19	Contact	TE Connectivity - Deutsch	0462-201-1631	#16 Gold Contact Socket 16-20 AWG	10	See Wiring Table	440-74-171
20	Contact	TE Connectivity - Deutsch	114017	#16 & #12 Deutsch Sealing Plug	10	See Wiring Table	440-74-020
21	Contact	TE Connectivity - Deutsch	0460-204-12141	#12 Contact Pin 12-14 AWG	5	See Wiring Table	440-74-074
22	Contact	TE Connectivity - Deutsch	0462-209-16141	#16 Contact Socket 14-1 AWG	4	See Wiring Table	440-74-014
23	Contact	TE Connectivity	1670146-1	Conn MCP Connector Headers and PCB Receptacles POS Crimpmm ST Cable Mount Strip	4	See Wiring Table	
24	Contact	Bosch	1928 405 239	Sealing Plug BCB 0.6	34	See Wiring Table	
25	Contact	Bosch	1928 405 240	Sealing Plug BCB 1.5	3	See Wiring Table	
26	Contact	Bosch	1928 492 555	Contact BCB 0.6 16-20 AWG	14	See Wiring Table	
27	Lock	Bosch	1928 405 165	Secondary Locking Plate for 56 Way Connector	1	820	
28	Lock	TE Connectivity - Deutsch	W2-5	Locking Wedge DT06-2S	2	850, 851	440-74-022
29	Lock	TE Connectivity - Deutsch	W3-5	Locking Wedge DT06-3S 440-74-057	2	840, 861	
30	Lock	TE Connectivity - Deutsch	W4-5	Locking Wedge 4 Socket DT06-4S	2	826, 827	
31	Lock	TE Connectivity / DEUTSCH	W35-1939	LOCKING WEDGE 3 DEUTSCH "J"-1939"	4	822, 823, 824, 825	440-74-059
32	Sleeving		Black Braided Nylon	Black Braided Nylon	128.5 in	See Drawing	
33	Wire		18 AWG Black	Generic Wire	38.5 in	W5, W13, W14, W19, W20, W46	

























<b>Title:</b>	----
<b>Part Number:</b>	D10-53-001
<b>Description:</b>	Control Harness

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage	IPN
34	Wire		12 AWG Red	12 AWG Red	74 in	W6, W33	
35	Wire		16 AWG Red	Generic Wire	70.5 in	W7, W8, W9, W11, W32, W43, W68, W69, W70	
36	Wire		16 AWG Black	Generic Wire	10 in	W3, W4, W18	
37	Wire		18 AWG Red	Generic Wire	40.5 in	W10, W16, W40, W41, W44	
38	Wire		18 AWG Orange	Generic Wire	20.5 in	W17	
39	Wire		J1939 CAN HI		76 in	W21, W23, W24, W25, W34, W49, W50, W65, W66, W67	
40	Wire		J1939 CAN Lo		76 in	W26, W27, W28, W29, W30, W47, W48, W61, W62, W63	
44	Wire		14 AWG Red	Generic Wire	107.5 in	W31, W42, W60, W64	
45	Wire		14 AWG White-Black	Generic Wire	7 in	W51	
46	Wire		14 AWG White	Generic Wire	7 in	W52	
47	Wire		14 AWG Black	Generic Wire	60.5 in	W1, W2, W45, W53, W54	
48	Wire		20 AWG Black	Generic Wire	10 in	W58	
49	Wire		18 AWG BR/RO	18 AWG Brown w/Red Stripe	28.5 in	W38	
50	Wire		16 AWG BLACK	16AWG GXL Wire Black	8 in	W12, W55	
54	Wire		18 AWG Blue	Generic Wire	20 in	W59	
55	Wire		18 AWG White-Black	Generic Wire	20 in	W57	
56	Wire		18 AWG Violet	Generic Wire	28.5 in	W39	
57	Wire		18 AWG Pink	Generic Wire	20 in	W56	
52	Wire Seal	TE Connectivity	2098582-1	Connector Accessories Seal Straight Silicone Red Automotive	4	See Wiring Table	

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From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	To Contact PN	Notes
B00.A	B01.01	W6.Red	12 AWG Red		12 AWG	47 in	0460-204-12141		+ 12V Switched
B00.B	S18	W54.Black	14 AWG Black		14 AWG	5 in	0460-204-12141		Ground (Splice)
B00.C	B40.A	W51.White-Black	14 AWG White-Black		14 AWG	7 in	0460-204-12141	0462-209-16141	Trap Door Open
B00.D	B40.B	W52.White	14 AWG White		14 AWG	7 in	0460-204-12141	0462-209-16141	Trap Door Close
B00.H	B03.01	W60.Red	14 AWG Red		14 AWG	47 in	0460-204-12141		+ 12V Battery
B20.3	S5	W11.Black	18 AWG Black		18 AWG	10 in	1928 492 555		Sensor Ground (Splice)
B20.5	S2	W5.Black	18 AWG Black		18 AWG	6 in	1928 492 555		Switch in High
B20.7	S4	W40.Red	18 AWG Red		18 AWG	6 in	1928 492 555		Ignition Power (Splice)
B20.9	S21	W49.Yellow	J1939 CAN HI		18 AWG	4 in	1928 492 555		CAN B HI
B20.10	S22	W47.Green	J1939 CAN Lo		18 AWG	4 in	1928 492 555		CAN B Lo
B20.20	S4	W10.Red	18 AWG Red		18 AWG	6 in	1928 492 555		Ignition Power
B20.43	B61.C	W16.Red	18 AWG Red		18 AWG	20.5 in	1928 492 555	0462-201-16141	+ 5V Power
B20.45	B61.B	W17.Orange	18 AWG Orange		18 AWG	20.5 in	1928 492 555	0462-201-16141	PSI Transducer Signal
B20.49	S16	W8.Red	16 AWG Red		16 AWG	4 in	1241608-1		+ 12V Power Capacitor Out
B20.50	S16	W9.Red	16 AWG Red		16 AWG	4 in	1241608-1		+ 12V Power Capacitor Out
B20.51	S17	W3.Black	16 AWG Black		16 AWG	4 in	1241608-1		Ground (Splice)
B20.52	S17	W4.Black	16 AWG Black		16 AWG	4 in	1241608-1		Ground (Splice)
B21.5	S7	W21.Yellow	J1939 CAN HI		18 AWG	4 in	770854-1		CAN A HI
B21.6	S8	W28.Green	J1939 CAN Lo		18 AWG	4 in	770854-1		CAN A Lo
B21.13	S6	W19.Black	18 AWG Black		18 AWG	4 in	770854-1		Ground (Splice)
B21.14	S6	W20.Black	18 AWG Black		18 AWG	4 in	770854-1		Ground (Splice)
B21.16	S13	W41.Red	18 AWG Red		18 AWG	4 in	770854-1		Ignition Power
B21.24	S20	W11.Red	16 AWG Red		16 AWG	4 in	770854-1		+ 12V Battery Power
B22.A	S9	W24.Yellow	J1939 CAN HI		18 AWG	2 in	0462-201-1631		CAN A HI
B22.B	S10	W30.Green	J1939 CAN Lo		18 AWG	2 in	0462-201-1631		CAN A Lo
B23.A	S7	W25.Yellow	J1939 CAN HI		18 AWG	2 in	0462-201-1631		CAN A HI
B23.B	S8	W29.Green	J1939 CAN Lo		18 AWG	2 in	0462-201-1631		CAN A Lo
B26.03	S24	W48.Green	J1939 CAN Lo		18 AWG	4 in	0462-201-1631		CAN B Lo
B27.02	S4	W43.Red	16 AWG Red		16 AWG	6 in	0462-201-16141		Ignition Power
B27.03	S16	W32.Red	16 AWG Red		16 AWG	8 in	0462-201-16141		+ 12V Power Capacitor Out
B27.04	S2	W12.Black	16 AWG BLACK		16 AWG	6 in	0462-201-16141		Ground (Splice)
B50.01	B20.55	W38.Brown-Red	18 AWG BR/RO		18 AWG	28.5 in	0462-201-16141	1241608-1	EDC Out
B50.02	B20.37	W39.Violet	18 AWG Violet		18 AWG	28.5 in	0462-201-16141	1928 492 555	EDC Return
B51.01	S20	W70.Red	16 AWG Red		16 AWG	2 in	0462-201-16141		+ 12V Switched
B51.02	S13	W69.Red	16 AWG Red		16 AWG	2 in	0462-201-16141		+ 12V Switched
B60.1	B20.41	W56.Pink	18 AWG Pink		18 AWG	20 in	1670146-1	1928 492 555	SV Vref
B60.2	B20.18	W59.Blue	18 AWG Blue		18 AWG	20 in	1670146-1	1928 492 555	Temp Signal
B60.3	S5	W58.Black	20 AWG Black		20 AWG	10 in	1670146-1		Ground (Splice)
B60.4	B20.19	W57.White-Black	18 AWG White-Black		18 AWG	20 in	1670146-1	1928 492 555	Speed Signal
B61.A	S5	W14.Black	18 AWG Black		18 AWG	10.5 in	0462-201-16141		Ground (Splice)
S2	S1	W2.Black	14 AWG Black		14 AWG	7.5 in			Ground























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From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	To Contact PN	Notes
S3	B01.02	 W33.Red	12 AWG Red		12 AWG	27 in			+12V
S3	B26.01	 W44.Red	18 AWG Red		18 AWG	4 in		0462-201-16141	+12V Power (Splice)
S4	S3	 W7.Red	16 AWG Red		16 AWG	38.5 in			+12V Power (Splice)
S6	S1	 W18.Black	16 AWG Black		16 AWG	2 in			Ground (splice)
S9	B20.12	 W23.Yellow	J1939 CAN Hi		18 AWG	4 in		1928-492-555	CAN A Hi
S9	S7	 W34.Yellow	J1939 CAN Hi		18 AWG	11.5 in			CAN A Hi
S10	B20.11	 W26.Green	J1939 CAN Lo		18 AWG	4 in		1928-492-555	CAN A Lo
S10	S8	 W27.Green	J1939 CAN Lo		18 AWG	11.5 in			CAN A Lo
S13	S3	 W42.Red	14 AWG Red		14 AWG	33 in			Ignition Power (Splice)
S15	B26.04	 W46.Black	18 AWG Black		18 AWG	4 in		0462-201-16141	Ground (Splice)
S15	S1	 W1.Black	14 AWG Black		14 AWG	31 in			Ground
S15	S18	 W45.Black	14 AWG Black		14 AWG	15 in			Ground (Splice)
S17	S2	 W55.Black	16 AWG BLACK		16 AWG	2 in			Ground (Splice)
S18	B40.C	 W53.Black	14 AWG Black		14 AWG	2 in		0462-209-16141	Ground (Splice)
S19	B03.02	 W64.Red	14 AWG Red		14 AWG	14 in			+12V Battery Fused
S19	B27.01	 W31.Red	14 AWG Red		14 AWG	13.5 in		0462-209-16141	12V Battery
S19	S20	 W68.Red	16 AWG Red		16 AWG	2 in			+12V Battery Fused
S21	B24.A	 W66.Yellow	J1939 CAN Hi		18 AWG	2 in		0462-201-1631	CAN B Hi
S22	B24.B	 W63.Green	J1939 CAN Lo		18 AWG	2 in		0462-201-1631	CAN B Lo
S23	B25.A	 W67.Yellow	J1939 CAN Hi		18 AWG	2 in		0462-201-1631	CAN B Hi
S23	B26.02	 W65.Yellow	J1939 CAN Hi		18 AWG	4 in		0462-201-1631	CAN B Hi
S23	S21	 W50.Yellow	J1939 CAN Hi		18 AWG	40.5 in			CAN B Hi
S24	B25.B	 W62.Green	J1939 CAN Lo		18 AWG	2 in		0462-201-1631	CAN B Lo
S24	S22	 W61.Green	J1939 CAN Lo		18 AWG	40.5 in			CAN B Lo

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#	Type	Reference Designator	Part Number	Color	Gauge	Length	Twisted With
1	Wire	W1	14 AWG Black	Black	14 AWG	31 in	
2	Wire	W2	14 AWG Black	Black	14 AWG	7.5 in	
3	Wire	W3	16 AWG Black	Black	16 AWG	4 in	
4	Wire	W4	16 AWG Black	Black	16 AWG	4 in	
5	Wire	W5	18 AWG Black	Black	18 AWG	6 in	
6	Wire	W6	12 AWG Red	Red	12 AWG	47 in	
7	Wire	W7	16 AWG Red	Red	16 AWG	38.5 in	
8	Wire	W8	16 AWG Red	Red	16 AWG	4 in	
9	Wire	W9	16 AWG Red	Red	16 AWG	4 in	
10	Wire	W10	18 AWG Red	Red	18 AWG	6 in	
11	Wire	W11	16 AWG Red	Red	16 AWG	4 in	
12	Wire	W12	16 AWG BLACK	Black	16 AWG	6 in	
13	Wire	W13	18 AWG Black	Black	18 AWG	10 in	
14	Wire	W14	18 AWG Black	Black	18 AWG	10.5 in	
15	Wire	W16	18 AWG Red	Red	18 AWG	20.5 in	
16	Wire	W17	18 AWG Orange	Orange	18 AWG	20.5 in	
17	Wire	W18	16 AWG Black	Black	16 AWG	2 in	
18	Wire	W19	18 AWG Black	Black	18 AWG	4 in	
19	Wire	W20	18 AWG Black	Black	18 AWG	4 in	
20	Wire	W21	J1939 CAN HI	Yellow	18 AWG	4 in	
21	Wire	W23	J1939 CAN HI	Yellow	18 AWG	4 in	
22	Wire	W24	J1939 CAN HI	Yellow	18 AWG	2 in	
23	Wire	W25	J1939 CAN HI	Yellow	18 AWG	2 in	
24	Wire	W26	J1939 CAN Lo	Green	18 AWG	4 in	
25	Wire	W27	J1939 CAN Lo	Green	18 AWG	11.5 in	
26	Wire	W28	J1939 CAN Lo	Green	18 AWG	4 in	
27	Wire	W29	J1939 CAN Lo	Green	18 AWG	2 in	
28	Wire	W30	J1939 CAN Lo	Green	18 AWG	2 in	
29	Wire	W31	14 AWG Red	Red	14 AWG	13.5 in	
30	Wire	W32	16 AWG Red	Red	16 AWG	8 in	
31	Wire	W33	12 AWG Red	Red	12 AWG	27 in	
32	Wire	W34	J1939 CAN HI	Yellow	18 AWG	11.5 in	
33	Wire	W38	18 AWG BR/RED	Brown-Red	18 AWG	28.5 in	
34	Wire	W39	18 AWG Violet	Violet	18 AWG	28.5 in	
35	Wire	W40	18 AWG Red	Red	18 AWG	6 in	
36	Wire	W41	18 AWG Red	Red	18 AWG	4 in	
37	Wire	W42	14 AWG Red	Red	14 AWG	33 in	
38	Wire	W43	16 AWG Red	Red	16 AWG	6 in	
39	Wire	W44	18 AWG Red	Red	18 AWG	4 in	
40	Wire	W45	14 AWG Black	Black	14 AWG	15 in	
41	Wire	W46	18 AWG Black	Black	18 AWG	4 in	

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#	Type	Reference Designator	Part Number	Color	Gauge	Length	Twisted With
42	Wire	W47	J1939 CAN Lo	 Green	18 AWG	4 in	
43	Wire	W48	J1939 CAN Lo	 Green	18 AWG	4 in	
44	Wire	W49	J1939 CAN Hi	 Yellow	18 AWG	4 in	
45	Wire	W50	J1939 CAN Hi	 Yellow	18 AWG	40.5 in	
46	Wire	W51	14 AWG White-Black	 White-Black	14 AWG	7 in	
47	Wire	W52	14 AWG White	 White	14 AWG	7 in	
48	Wire	W53	14 AWG Black	 Black	14 AWG	2 in	
49	Wire	W54	14 AWG Black	 Black	14 AWG	5 in	
50	Wire	W55	16 AWG BLACK	 Black	16 AWG	2 in	
51	Wire	W56	18 AWG Pink	 Pink	18 AWG	20 in	
52	Wire	W57	18 AWG White-Black	 White-Black	18 AWG	20 in	
53	Wire	W58	20 AWG Black	 Black	20 AWG	10 in	
54	Wire	W59	18 AWG Blue	 Blue	18 AWG	20 in	
55	Wire	W60	14 AWG Red	 Red	14 AWG	47 in	
56	Wire	W61	J1939 CAN Lo	 Green	18 AWG	40.5 in	
57	Wire	W62	J1939 CAN Lo	 Green	18 AWG	2 in	
58	Wire	W63	J1939 CAN Lo	 Green	18 AWG	2 in	
59	Wire	W64	14 AWG Red	 Red	14 AWG	14 in	
60	Wire	W65	J1939 CAN Hi	 Yellow	18 AWG	4 in	
61	Wire	W66	J1939 CAN Hi	 Yellow	18 AWG	2 in	
62	Wire	W67	J1939 CAN Hi	 Yellow	18 AWG	2 in	
63	Wire	W68	16 AWG Red	 Red	16 AWG	2 in	
64	Wire	W69	16 AWG Red	 Red	16 AWG	2 in	
65	Wire	W70	16 AWG Red	 Red	16 AWG	2 in	

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#	Manufacturer	Part Number	Description	Label Text