

	Lines							
Amps on Line (Max)	Line #	End 1	End 2	Description	AWG	Color (Base / Stripe)	Length (mm)	Notes
15.300	L.10.1	BAT +	F1	+12V Straight from battery	12	RED	400	Must be individual lead to battery
10.650	L.10.2	BAT +	F2	+12V Straight from battery	12	RED	400	
10.150	L.10.3	BAT +	F3	+12V Straight from battery	12	RED	400	
14.300	L.10.4	BAT +	F4	+12V Straight from battery	12	RED	400	
23.150	L.10.5	BAT +	F5	+12V Straight from battery	12	RED	400	
22.150	L.10.6	BAT +	F6	+12V Straight from battery	12	RED	400	
15.300	L.10.7	F1	RLY1-P30	Relay 1 (Bank Angle) +12V Power Supply	12	RED	100	
10.650	L.10.8	F2	RLY2-P30	Relay 2 (Fuel) +12V Power Supply	12	RED	100	
10.150	L.10.9	F3	RLY3-P30	Relay 3 (Fan) +12V Power Supply	12	RED	100	
14.300	L.10.10	F4	RLY4-P30	Relay 4 (HL) +12V Power Supply	12	RED	100	
23.150	L.10.11	F5	RLY5-P30	Relay 5 (Misc 1) +12V Power Supply	12	RED	100	
22.150	L.10.12	F6	RLY6-P30	Relay 6 (Misc 2) +12V Power Supply	12	RED	100	
15.300	L.10.13	RLY1-P87	J1	+12V From Relay 1 Pin 87	12	RED	75	
15.000	L.10.14	J1	P2-C1	(Relay 1 P87) 12V PWR for COP	14	RED	500	
0.150	L.10.15	J1	RLY2-P86	(Relay 1 P87) 12V PWR for Relay 2 P86	20	RED	100	
0.150	L.10.16	J1	RLY3-P86	(Relay 1 P87) 12V PWR for Relay 3 P86	20	RED	100	
10.650	L.10.17	RLY2-P87	J2	+12V From Relay 2 Pin 87	12	RED	65	
5.900	L.10.18	J2	F8	Relay 2 Powr for Fuse 8 (Fuel Pump)	16	RED	150	
4.750	L.10.19	J2	F9	Relay 2 Powr for Fuse 9 (Injectors)	16	RED	270	
5.900	L.10.20	F8	J3	Fuse 8 Pwr for Fuel pump and pump relay	16	RED	90	
0.150	L.10.21	J3	RLY7-P86	Fuse 8 Pwr for Relay 7 Coil PWR	16	RED	80	
5.750	L.10.22	J3	RLY7-P30	Fuse 8 Pwr for Switched PWR (Fuel Pump)	16	RED	80	
4.750	L.10.23	F9	P1-C1	Fuel Injector PWR	16	RED	600	
5.750	L.10.25	RLY7-P87	P5-C1	Fuel Pump PWR	14	RED	500	
0.150	L.10.27	RLY7-P85	P5-C2	Fuel Pump ECU Trigger	20	BLUE	600	
10.150	L.10.28	RLY3-P87	J6	Fan Relay Switched PWR	12	RED	100	
0.150	L.10.29	J6	RLY8-P86	Fan Trigger Relay - Coil PWR	20	RED	115	
10.000	L.10.30	J6	RLY8-P30	Fan Trigger Relay - switched (30) PWR	12	RED	100	
0.150	L.10.31	RLY8-P85	P6-C2	Fan Trigger Relay - ECU Signal Trigger (85)	20	BLUE	600	
10.000	L.10.32	RLY8-P87	J7	Fan Trigger Relay - FAN SUPPLU POWER (87)	12	RED	120	
5.000	L.10.33	J7	P3-C1	Fan Supply Power 1	16	RED	600	
5.000	L.10.34	J7	P4-C1	Fan Supply Power 2	16	RED	600	
14.300	L.10.35	RLY4-P87	J8	Headlight Relay SW PWR (87)	12	RED	35	
4.900	L.10.36	J8	RLY9-P30	Highbeam Relay (30) PWR Supply	16	RED	150	
0.150	L.10.37	J8	RLY10-P86	Starter Logic 1 Relay Coil PWR	20	RED	150	
9.250	L.10.38	J8	RLY11-P30	Stater Logic 2 (30) PWR	16	RED	150	
4.900	L.10.39	RLY9-P87	P9-C3	Highbeam Output Power	16	PURPLE	600	
0.150	L.10.40	RLY10-P85	P7-C2	ECU Trigger Output: RPM Activated Output	20	BLUE	600	
5.300	L.10.41	P7-C4	J9	Run / Stop Switch Input (+12V)	18	RED	600	
0.150	L.10.42	J9	RLY1-P86	BA Relay (1) Coil Power (From Run/STOP)	18	RED	130	
5.150	L.10.43	J9	RLY10-P30	Starter Logic 1 Common PWR (30) (from run/stop)	18	RED	150	
0.150	L.10.44	RLY10-P87a	RLY11-P86	SL2 Coil PWR from SL1 87a	18	RED	100	
0.150	L.10.45	RLY11-P85	P8-C2	ECU Trigger Starter trig output	20	BLUE	600	
5.000	L.10.46	RLY10-P87	P10-C3	Sidestand Down Light PWR (RPM ACTIVATED PWR)	18	RED	600	
4.750	L.10.47	RLY11-P87a	P11-C3	HeadLight Lowbeam PWR	16	PINK	600	
4.500	L.10.48	RLY11-P87	P1-C4	Starter Relay Coil Power	18	BROWN	600	
0.150	L.10.49	RLY1-P85	P8-C3	Bank angle relay coil exit - gnd thru BAS	18	BLACK	600	
0.015	L.10.50	P2-C10	P4-C4	SS Down LED GND - thru SS Diode	18	BLACK	600	
3.714	L.10.51	P3-C10	P3-C4	Starter Relay Coil Exit - Thru clutch switch	18	BLACK	600	
3.729	L.10.54	P4-C10	P5-C3	D3-D4 GND Path thru SS Switch	18	BLACK	600	
0.015	L.10.55	P5-C4	P3-C8	Neutral Light LED GND Path - thru NS Diode	18	BLACK	600	
3.714	L.10.56	P2-C4	P2-C8	Starter Relay Coil Exit - GND thru ns diode	18	BLACK	600	
3.729	L.10.59	P4-C8	P4-C3	D1-D2 GND Path thru Neutral Switch	18	BLACK	600	
0.150	L.10.60	RLY2-P85	J12	Relay 2 Coil GND - to Bat Neg	22	BLACK	150	
0.150	L.10.61	RLY3-P85	J12	Relay 3 Coil GND - to Bat Neg	22	BLACK	150	

0.150	L.10.62	RLY4-P85	J12	Relay 4 Coil GND - to Bat Neg	22	BLACK	150	
0.150	L.10.63	RLY5-P85	J12	Relay 5 Coil GND - to Bat Neg	22	BLACK	140	
0.150	L.10.64	RLY6-P85	J12	Relay 6 Coil GND - to Bat Neg	22	BLACK	150	
0.150	L.10.65	RLY9-P85	J12	Relay 9 Coil GND - to Bat Neg	22	BLACK	150	
0.900	L.10.66	J12	BAT -	Relay coil exits GND Path (Bat Neg)	20	LIGHT GREEN	600	
0.450	L.10.67	P6-C4	J13	Switched (KeySwitch) +12V PWR	20	RED	600	
0.150	L.10.68	J13	RLY4-P86	Relay 4 (HL) Coil PWR (86)	20	RED	150	
0.150	L.10.69	J13	RLY5-P86	Relay 5 (MISC 1) Coil PWR (86)	20	RED	150	
0.150	L.10.70	J13	RLY6-P86	Relay 6 (MISC 2) Coil PWR (86)	20	RED	150	
23.150	L.10.71	RLY5-P87	J14	Relay 5 - On Power (Pin 87)	12	RED	50	
15.000	L.10.72	J14	F7	+12V For Fuse 7 - WB Nanos Pros	14	RED	150	
7.500	L.10.73	J14	F10	+12V For Fuse 10 - FT550	16	RED	150	
0.150	L.10.74	J14	F11	+12V For Fuse 11 - LED Lightbar	16	RED	150	
0.500	L.10.75	J14	F12	+12V For Fuse 12 - +12V Sensors	16	RED	150	
15.000	L.10.76	F7	J15	Fuse 7 - WB Nano Power	14	RED	50	
7.500	L.10.77	J15	P1-C2	WB Nano 1 Power	18	RED	600	
7.500	L.10.78	J15	P2-C2	WB Nano 2 Power	18	RED	600	
7.500	L.10.79	F10	P3-C2	FT550 PWR	18	RED	600	
0.150	L.10.80	F11	P6-C3	Lightbar Power Supply +12V	18	RED	600	
0.500	L.10.81	F12	P4-C2	+12V Semsor PWR	18	RED	600	
0.150	L.10.82	P9-C4	RLY12-P86	Left Turn Signal Ref +24V PWR	20	GRAY	600	
0.150	L.10.83	P10-C4	RLY13-P86	Right Turn Signal Ref +24V PWR	20	GRAY	600	
22.150	L.10.84	RLY6-P87	J16	Relay 6 - On Power (Pin 87)	12	RED	50	
4.500	L.10.85	J16	F13	Fuse 13 +12V PWR - TAIL/ILLUM	16	RED	150	
10.350	L.10.86	J16	F14	Fuse 13 +12V PWR - BRAKE - TS	16	RED	150	
7.300	L.10.87	J16	F15	Fuse 13 +12V PWR - START/IGN	14	RED	150	
4.500	L.10.88	F13	P7-C3	Taill Illumination Fused +12V PWR	16	RED	600	
10.350	L.10.89	F14	J17	Fuse 14 - Brake PWR	16	RED	50	
1.350	L.10.90	J17	P2-C3	Brake PWR Circuit	18	RED	600	
4.000	L.10.91	J17	RLY16-PB	+12V For LED Flasher Relay	18	RED	100	
5.000	L.10.92	J17	P1-C6	+12V For 24V Power Supply	18	RED	600	
7.300	L.10.93	F15	P1-C3	Fuse 15 - Start Ignition +12V PWR	14	RED	600	
0.250	L.10.94	P3-C6	P3-C3	+24V Turn Signal Logic Ref Voltage	18	YELLOW	600	
5.000	L.10.95	P1-C5	24PS IN +	+12V POWER SUPPLY	16	RED	0	
5.000	L.10.96	P2-C5	24PS IN -	+12V BATTER NEG	16	BLACK	0	
5.000	L.10.97	24PS OUT +	P3-C5	24V PS Positive	16	BLACK	0	
5.000	L.10.98	24PS OUT -	P4-C5	24V PS Negative	16	YELLOW	0	Part of the component harness
5.000	L.10.99	P2-C6	BAT -	+12V Battery Neg for 24V Power Supply System	18	LIGHT GREEN	400	
0.300	L.10.100	J18	P4-C6	24V Power Supply System GND	18	LIGHT GREEN	600	
0.150	L.10.101	RLY15-P85	J18	24V GND - GND For Relay 15 Coil	18	LIGHT GREEN	100	
0.150	L.10.102	RLY14-P85	J18	24V GND - GND For Relay 14 Coil	18	LIGHT GREEN	100	
0.150	L.10.103	RLY14-P30	RLY15-P86	Relay 14-15 Crossover Logic	18	BLACK	75	
0.150	L.10.104	RLY15-P30	RLY14-P86	Relay 14-15 Crossover Logic	18	BLACK	75	
0.150	L.10.105	RLY13-P85	RLY14-P87a	Right Turn Relay to RT Logic Relay - Coil GND Logic	18	BLACK	100	
0.150	L.10.106	RLY12-P85	RLY15-P87a	Left Turn Relay to LT Logic Relay - Coil GND Logic	18	BLACK	100	
4.000	L.10.107	RLY16-PL	J19	LED Flasher Relay -Flash Output +12V	20	ORANGE	100	
2.000	L.10.108	J19	RLY13-P30	Flasher 12V for Right Turn Signal	20	ORANGE	100	
2.000	L.10.109	J19	RLY12-P30	Flasher 12V for Left Turn Signal	20	ORANGE	100	
2.000	L.10.110	RLY12-P87	P11-C4	Left turn signal Flashing 12V	20	ORANGE	600	
2.000	L.10.111	RLY13-P87	P12-C4	Right turn signal Flashing 12V	20	LIGHT BLUE	600	
0.150	L.10.112	P8-C4	RLY9-P86	Highbeam Switch Input +12V	20	WHITE	600	
		N/C = Not Connected				S = Same as feed		
#	CMA TOTAL		Connection Method		Lines		Notes	Inline Directions
J1	12631		Open Barrel - C		L.10.14,L.10.15,L.10.16,L.10.13		+12V From Relay 1 PIN 87	L.10.13 / REST
J2	11683		Open Barrel - B		L.10.18,L.10.19,L.10.17		+12V From Relay 2 PIN 87	L.10.17 / REST
J3	7756		Open Barrel - B		L.10.21,L.10.22,L.10.20		Fuse 8 PWR for Fuel pump and pump relay	L.10.20 / REST
J6	14032		Open Barrel - B		L.10.29,L.10.30,L.10.28		Fan Relay Switched PWR (87)	L.10.28 / REST
J7	11683		Open Barrel - B		L.10.33,L.10.34,L.10.32		FAN Trigger Switched Power (87)	L.10.32 / REST (TRIM 5 STRANDS FROM 12G WIRE)
J8	12690		Open Barrel - C		L.10.36,L.10.37,L.10.38,L.10.35		Headlight Relay (4) Switched Pwr (87)	L.10.35 / REST
J9	4677		Open Barrel - T? A?		L.10.42,L.10.43,L.10.41		Run / Stop PWR - for Rly1(86) & 10(30)	L.10.41 / REST

	J12	4796	Open Barrel - B	L.10.66,L.10.60,L.10.61,L.10.62,L.10.63,L.10.64, L.10.65	Relay Coils Grounds - to BAT Neg	L.10.66 / REST
	J13	4026	Open Barrel - T? A?	L.10.68,L.10.69,L.10.70,L.10.67	+12V Switched PWR - From Keyswitch	L.10.67 / REST
	J14	18374	Open Barrel - C	L.10.72,L.10.73,L.10.74,L.10.75,L.10.71	Misc 1 Relay (P87) 12V PWR	L.10.71 / REST
	J15	7223	Open Barrel - B	L.10.77,L.10.78,L.10.76	Fuse 7 Power - WB Nano Pros	L.10.76 / REST
	J16	15788	Open Barrel - B	L.10.85,L.10.86,L.10.87,L.10.84	Misc 2 Relay (P87) 12V PWR	L.10.84 / REST
	J17	7263	Open Barrel - B	L.10.90,L.10.91,L.10.92,L.10.89	Fused 14 +12V Pwr - Brake PWR	L.10.89 / REST
	J18	4677	Open Barrel - A	L.10.100,L.10.101,L.10.102	24V Power Supply GND	L.10.100 / REST
	J19	3019	Open Barrel - T	L.10.108,L.10.109,L.10.107	Relay 16 - LED Flash Power 12V	L.10.107 / REST
	CONNECTORS					
CODE	#	USE - Description		CONNECTOR (Part Number)		NOTES
PS-ECU-FI	C.10.1	PS to ECU Harness - FI Power		DT04-6P		
PS-ECU-O	C.10.2	PS to ECU Harness - Outputs		DTM04-8P		
MH-PS-2	C.10.3	PS TO Main Harness - Connector 2		DT04-12P		
MH-PS-1	C.10.4	PS TO Main Harness - Connector 1		DTM04-12P		
24VPS	C.10.5	24V Power Supply - SUPPLY SIDE		DT04-4P		
24VPS	C.10.6	24V Power Supply - HARNESS SIDE		DT06-4S		
DIODE-NS	C.10.7	Diode Pack - Nuetral Switch (Component)		DT04-4P-RT01		
DIODE-NS	C.10.8	Diode Pack - Nuetral Switch (Harness)		DT06-4S		
DIODE-SS	C.10.9	Diode Pack - Nuetral Switch (Component)		DT04-4P-RT01		
DIODE-SS	C.10.10	Diode Pack - Nuetral Switch (Harness)		DT06-4S		