Table 2 STATUS LED FAULT CODES					
LED CODES		CODES	EXPLANATION		
	LED off solid on		no power or defective controller controller operational; no faults		
	1,1 1,2 1,3 1,4 1,5	a aaaaa a aaa a aa a aa a a	thermal cutback fault throttle fault speed limit pot fault undervoltage fault overvoltage fault		
	2,1 2,3 2,4	aa aaaa aa aaa aa a	main contactor driver Off fault main contactor fault main contactor driver On fault		
*	3,1 3,2 3,3 3,4 3,5	aaa aaaa aaa aaaa aaa aa aaa a	HPD fault present for >10 seconds brake On fault precharge fault brake Off fault HPD (High Pedal Disable) fault		
* * * *	4,1 4,2 4,3 4,4	aaaa aaaa aaaa aa aaaa a	current sense fault motor voltage fault (hardware failsafe) EEPROM fault power section fault		

^{*} = Must cycle keyswitch to clear.

NOTE: Only one fault is indicated at a time, and faults are not queued up.

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^{† =} Must use programmer to clear, as follows: select Program Menu, alter data value of any parameter, cycle keyswitch.

	Table 3 TROUBLESHOOTING CHART					
LED CODE	PROGRAMMER LCD DISPLAY	EXPLANATION	POSSIBLE CAUSE			
1,1	THERMAL CUTBACK	over-/under-temperature cutback	 Temperature >92°C or < -25°C. Excessive load on vehicle. Operation in extreme environments. Electromagnetic brake not releasing. 			
1,2	THROTTLE FAULT 1	throttle fault	 Throttle input wire open or shorted. Throttle pot defective. Wrong throttle type selected. 			
1,3	SPD LIMIT POT FAULT	speed limit pot fault	 Speed limit pot wire(s) broken or shorted. Broken speed limit pot. 			
1,4	LOW BATTERY VOLTAGE	battery voltage too low	 Battery voltage <17 volts. Bad connection at battery or controller. 			
1,5	OVERVOLTAGE	battery voltage too high	 Battery voltage >36 volts. Vehicle operating with charger attached. Intermittent battery connection. 			
2,1	MAIN OFF FAULT	main contactor driver Off fault	1. Main contactor driver failed open.			
2,3	MAIN CONT FLTS	main contactor fault	 Main contactor welded or stuck open. Main contactor driver fault. Brake coil resistance too high. 			
2,4	MAIN ON FAULT	main contactor driver On fault	1. Main contactor driver failed closed.			
3,1	PROC/WIRING FAULT	HPD fault present for >10 sec.	 Misadjusted throttle. Broken throttle pot or throttle mechanism. 			
3,2	BRAKE ON FAULT	brake On fault	 Electromagnetic brake driver shorted. Electromagnetic brake coil open. 			
3,3	PRECHARGE FAULT	precharge fault	 Low battery voltage. KSI and throttle turned on at same time. 			
3,4	BRAKE OFF FAULT	brake Off fault	 Electromagnetic brake driver open. Electromagnetic brake coil shorted. 			
3,5	НРД	HPD (High Pedal Disable) fault	 Improper sequence of throttle and KSI, push, or inhibit inputs. Misadjusted throttle pot. 			
4,1	CURRENT SENSE FAULT	current sense fault	 Short in motor or in motor wiring. Controller failure. * 			
4,2	HW FAILSAFE	motor voltage fault (hardware failsafe)	 Motor voltage does not correspond to throttle request. Short in motor or in motor wiring. Controller failure. * 			
4,3	EEPROM FAULT	EEPROM fault	1. EEPROM failure or fault.			
4,4	POWER SECTION FAULT	power section fault	 EEPROM failure or fault. Short in motor or in motor wiring. Controller failure. * 			

^{*} Jack up vehicle and retest to confirm diagnosis. Clean connections, inspect system wiring, and retest.

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