

Electric Vehicle Performance - Torque Available Worksheet

version: Err:508

Vehicle: Err:520

Tires: Err:508

Motor: Advanced DC FB1-4001

Motor Weight: 143 lbs Motor

Vehicle Gear				1st		2nd		3rd	
Overall gear ratio				Err:508		Err:508		Err:508	
	Motor Torque	Motor RPM	Motor Current	Wheel Torque	Vehicle Speed	Wheel Torque	Vehicle Speed	Wheel Torque	Vehicle Speed
	5		75	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
speeds in mph	10	7750	100	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
torques in ft-lbs	15	6400	125	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
currents in amperes	20	5200	150	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	25	4550	170	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	30	4120	190	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	35	3900	210	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	40	3700	230	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	45	3500	250	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	50	3400	270	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	55	3300	290	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	60	3210	305	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	65	3150	320	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	70	3050	335	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	75	3000	355	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	80	2950	370	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	85	2900	390	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	90	2850	405	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	95	2800	420	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511
	100	2750	440	Err:511	Err:511	Err:511	Err:511	Err:511	Err:511

based on equations and data in "Build Your Own Electric Vehicle" by Bob Brant, Tab Books, 1994
courtesy of Doug Wilson (send comments, corrections and improvements to wilson@bwco.com)

