

Battery internal resistance, the tale of 8 RAV EV's

Updated January 2019

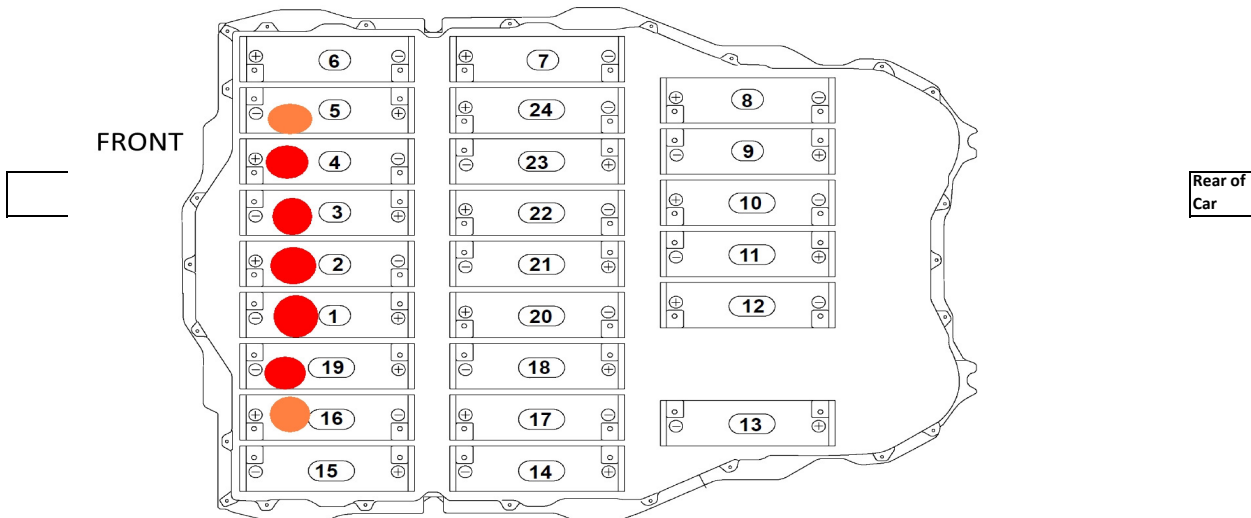
Owner		Darren	Peter	Peter II	Eric	Martin	Mike	Darell	ralph	Al								
Total Miles		153,000	70,000	after	114,000	65,000	95,000	90,000	73,000	105,702								
Original Pak		Yes	Yes	replacing	Yes	yes	yes	yes		yes								
Miles 2nd pak		n/a	n/a	some	n/a	n/a	n/a	n/a										
Range			20	modules	75				70+	2								
% depleted			25		80					75								
Battery #		Toyota tool	Monitor	toyo	Monitor	Monitor	Toyota tool			Toyota								
1	mohms	14	17.7	16	7.8	8.2	9	9.3	31.8	22								
2	mohms	17	23.2	21	8	8.6	11	9.8	31.4	22								
3	mohms	11	19	17	7.8	8.2	9	9	27.7	22								
4	mohms	12	20.6	18	7.8	8.1	9	8.9	26.2	23								
5	mohms	11	9.8	9	7.7	8	9	8	21.9	29								
6	mohms	9	8.5	8	7.4	7.5	8	7.7	11	16								
7	mohms	8	7.7	7	7.1	7.2	7	7.4	10.05	10								
8	mohms	8	7.3	7	7.2	7.2	7	7.5	10.2	8								
9	mohms	8	7.7	8	7.3	7.4	8	7.7	12.5	10								
10	mohms	8	8.1	8	7.4	7.5	8	7.8	13.5	11								
11	mohms	8	8.1	8	7.3	7.5	8	7.6	13.7	13								
12	mohms	8	7.4	7	7.4	7.4	7	7.5	11.4	10								
13	mohms	8	7.3	7	7.2	7.2	7	7.5	9.6	9								
14	mohms	9	8.1	8	7.3	7.4	8	7.7	11.3	13								
15	mohms	9	8.5	8	7.4	7.5	9	7.8	13.5	15								
16	mohms	10	13.1	12	7.7	7.9	9	8.7	25.1	19								
17	mohms	10	9.1	9	7.5	7.6	8	8.1	19.3	15								
18	mohms	11	10	9	7.6	7.9	8	8.2	19.4	15								
19	mohms	14	19.4	17	8	8.2	10	9.4	32.6	20								
20	mohms	10	10	9	7.5	7.8	8	8.9	24.5	16								
21	mohms	10	11.2	11	7.6	7.8	9	8.4	20.7	15								
22	mohms	10	10.5	10	7.4	7.9	8	8.2	25.9	15								
23	mohms	10	11.2	10	7.6	7.9	9	8.3	20.4	16								
24	mohms	10	9.5	9	7.5	7.7	8	7.9	17.6	15								
Total IR	mohms	243	273	253	180.5	185.6	201	197.3	461.25	379								

NOTE: As can be seen in the Peter II column battery resistance does drop

Range = total driveable miles before turtle mode or 80% depletion

% depletion = Fuel gauge estimate of remaining battery capacity before turtle.

Data Compiled by Peter Luckham



Red circle indicate locations of common high internal resistance modules
 Orange circles indicate locations of common slightly less compromised cells.