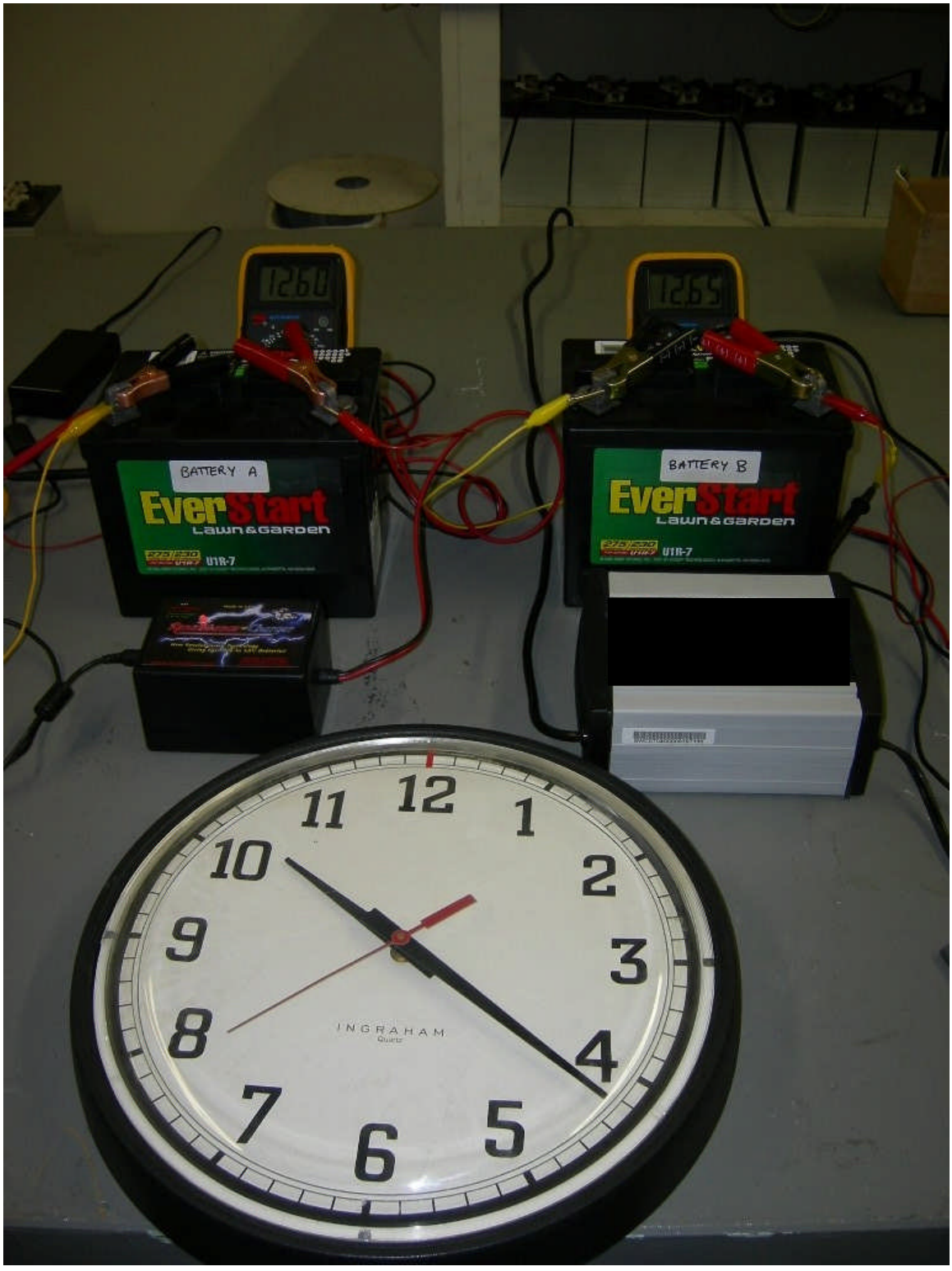
Testing the
Leading Brand 2A Charger vs. Renaissance™ Charger

6/27/07-7/2/07



Abstract: It is well known in the art that batteries, especially starter batteries, are extremely susceptible to damage and/or a shortened lifespan from deep discharges. It would be therefore a great advantage to provide the industry a charger that would be effective in charging a battery that has been subjected to this condition.

Purpose: To prove which charger is more effective in charging a battery that has been deeply discharged.

Test Procedure:

1) Obtain (2) brand new batteries.

2) Discharge them into 2 identical loads, at the same time, while measuring voltage to prove they are in virtually the same condition.

3) Charge up one battery with the Leading Brand 2A pulse charger (A very good, "smart" battery charger). Charge the other battery with the Renaissance™ charger.

4) Discharge the batteries respectively through 2 identical load banks while measuring the voltage of each.

5) Repeat steps 3 and 4 above 2 more times.

Step 1) Obtain 2 approximately identical batteries.

Obtained 2 identical U17-R Everstart 275 CCA lawn tractor batteries from Wal-Mart 6/27/07 at 8:30AM. Labeled one as **Battery A** and the other as **Battery B**.

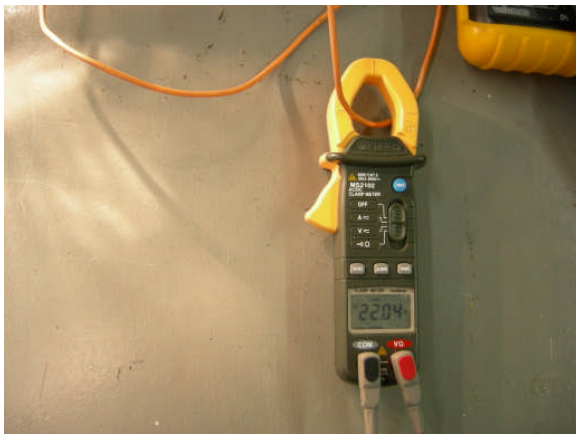
Step 2) Discharge the batteries to prove they behave similarly.

Began test at 9:30A. As can be seen from the pictures above, **Battery B** appears to be in *slightly* better condition.

Load Time (Min.)	Battery A	Battery B
1	11.67	11.74
2	11.65	11.72
3	11.62	11.68
4	11.58	11.65
5	11.55	11.62
6	11.52	11.60
7	11.49	11.56
8	11.46	11.53
9	11.42	11.49

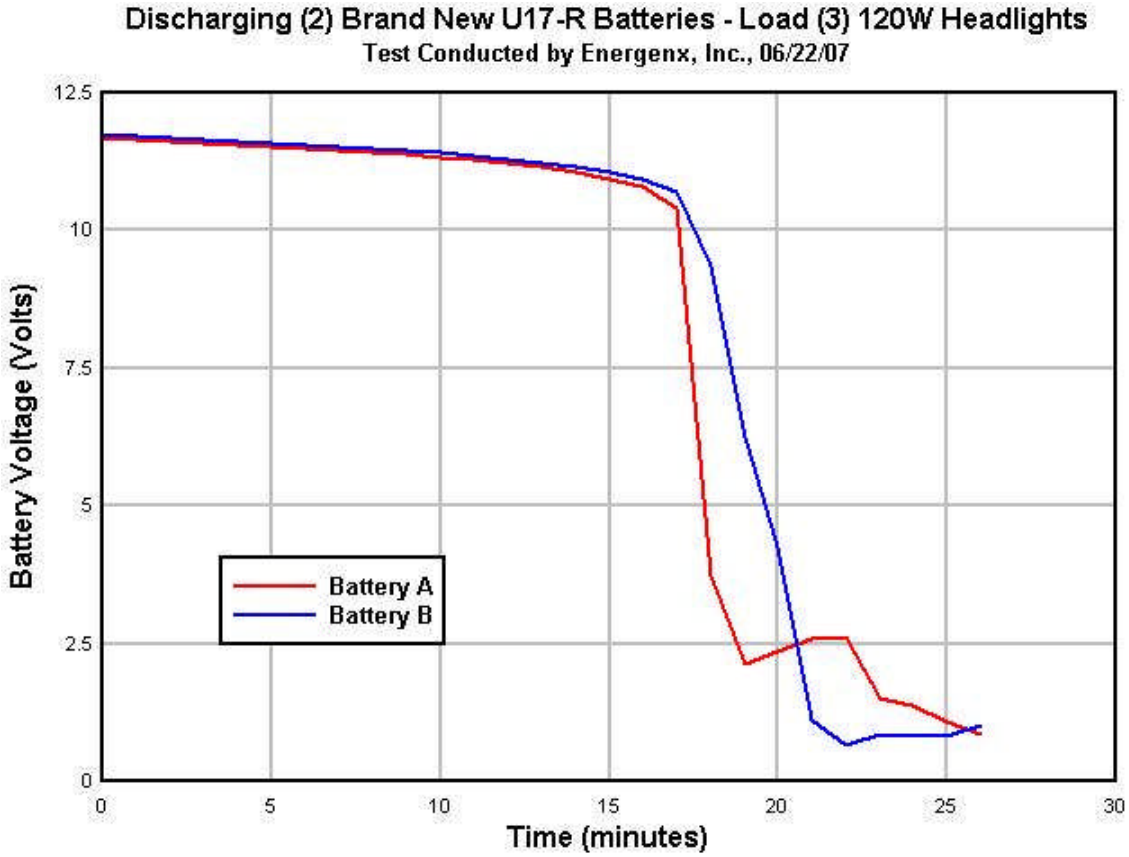
10	11.38	11.45
11	11.33	11.41
12	11.28	11.36
13	11.22	11.30
14	11.15	11.24
15	11.06	11.16
16	10.94	11.06
17	10.79	10.92
18	10.40	10.69
19	3.73	9.36
20	2.13	6.25
21	2.34	4.27
22	2.60	1.12
23	2.61	.65
24	1.49	.84
25	1.37	.82
26	1.07	.83
27	.86	1.02

Load Bank A ((3) paralleled 120W headlights) shown on top.
Load Bank B on the bottom.



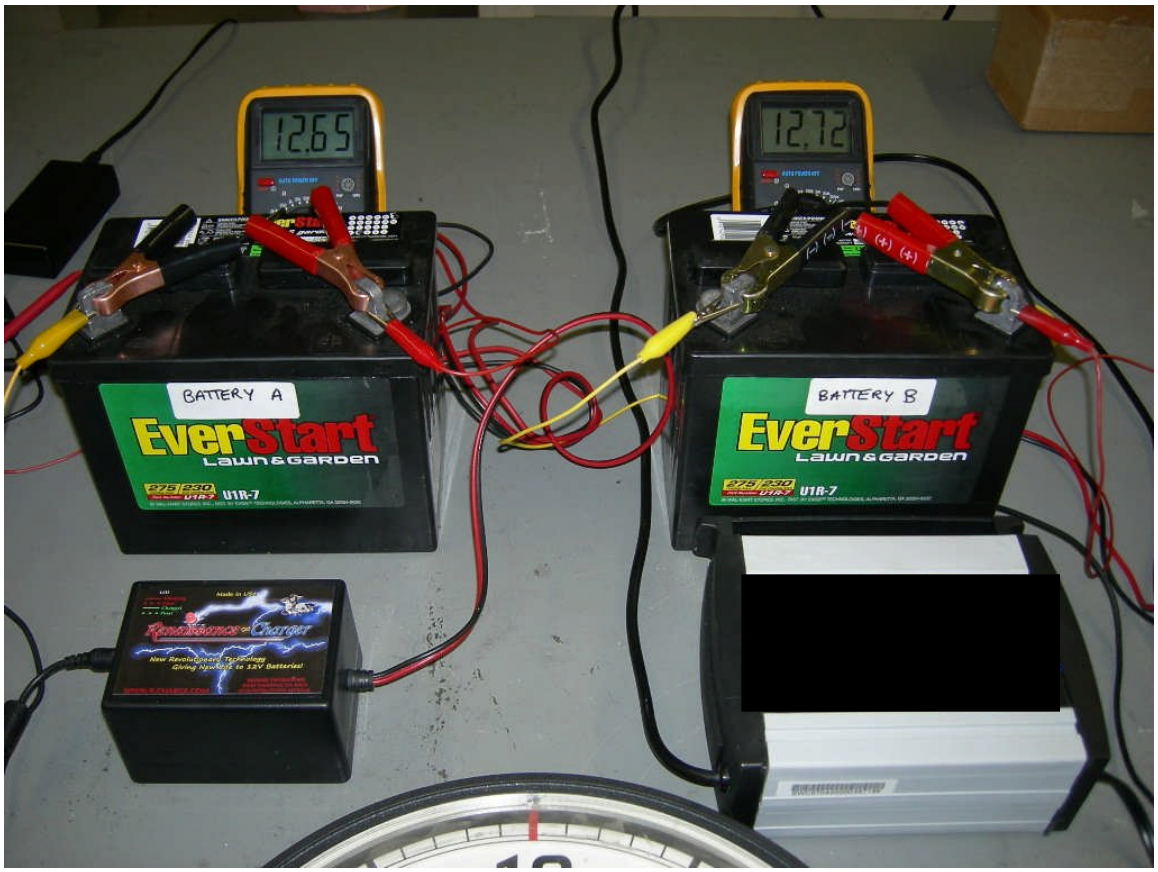
As can be seen above, the Load A is virtually the identical to Load B, both banks of lights drawing the same (+/-0.5%) current.

Graphed below, **Battery B** is proven to be in *slightly* better condition.



Step 3) Charging the Batteries

For the purpose of this test, **Battery A**, in slightly worse condition than **Battery B**, was chosen to be charged with the Renaissance Charger while **Battery B** was charged by the Leading Brand Charger set at the 2A setting.

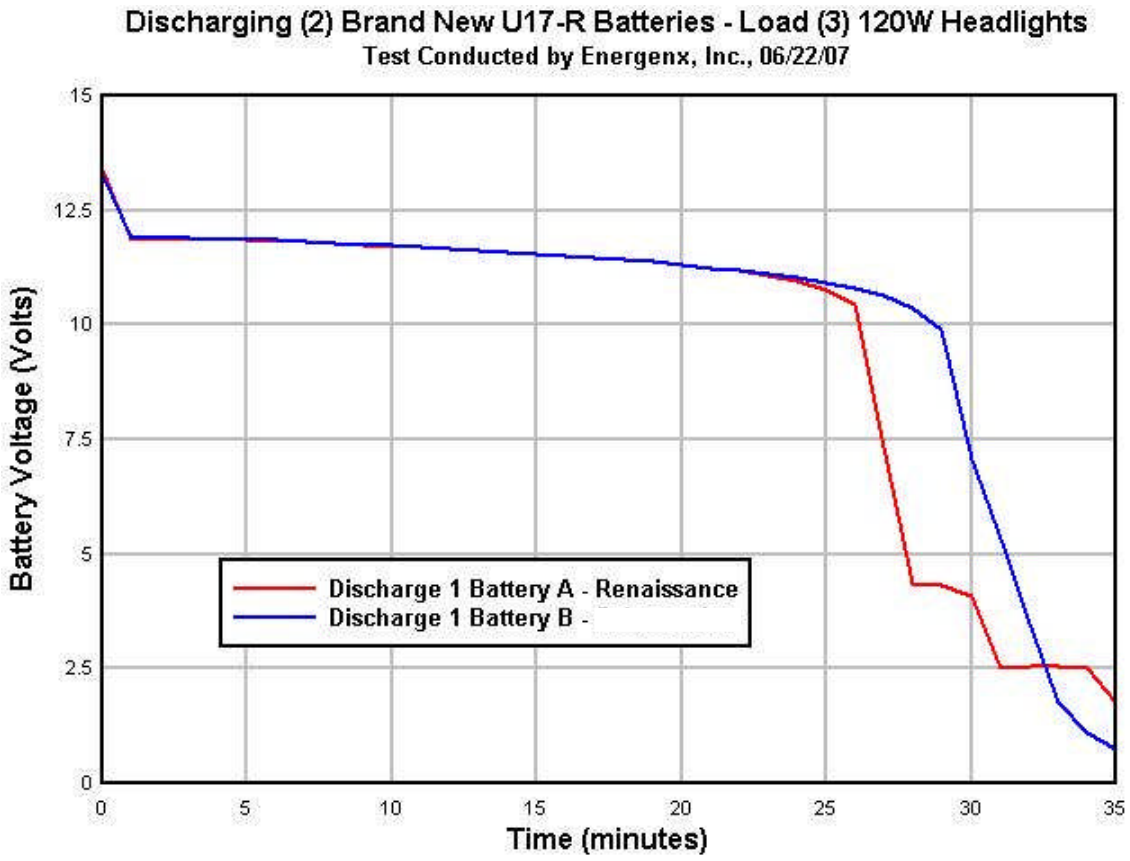


Step 4) Cycling the Batteries

1st Discharge Cycle 6/28/07 6:50AM

Load Time (Min.)	Battery A	Battery B
0	13.38	13.29
1	11.86	11.88
2	11.87	11.89
3	11.86	11.88
4	11.85	11.87
5	11.84	11.85
6	11.82	11.84
7	11.80	11.81
8	11.77	11.79
9	11.75	11.76

10	11.72	11.73
11	11.69	11.70
12	11.66	11.67
13	11.63	11.64
14	11.59	11.60
15	11.55	11.56
16	11.51	11.51
17	11.47	11.47
18	11.42	11.42
19	11.37	11.37
20	11.32	11.31
21	11.25	11.25
22	11.18	11.19
23	11.09	11.11
24	10.96	11.03
25	10.77	10.93
26	10.43	10.81
27	7.35	10.66
28	4.34	10.38
29	4.33	9.91
30	4.10	7.05
31	2.52	5.34
32	2.54	3.49
33	2.55	1.77
34	2.51	1.10
35	1.75	.74



2nd Discharge Cycle 06/29/07 7:10AM

Load Time (Min.)	Battery A	Battery B
0	13.53	13.28
1	11.90	11.89
2	11.91	11.90
3	11.90	11.90
4	11.89	11.88
5	11.87	11.87
6	11.85	11.85
7	11.83	11.82
8	11.81	11.80
9	11.78	11.77
10	11.76	11.74
11	11.73	11.71
12	11.70	11.68
13	11.66	11.65
14	11.63	11.61
15	11.59	11.57
16	11.55	11.53
17	11.51	11.48
18	11.46	11.43
19	11.41	11.37
20	11.36	11.31
21	11.29	11.24
22	11.22	11.17

23	11.15	11.09
24	11.04	10.98
25	10.90	10.86
26	10.70	10.71
27	10.32	10.53
28	7.43	10.26
29	5.57	9.82
30	4.26	8.60
31	3.99	5.53
32	2.83	4.27
33	2.45	2.59
34	2.43	1.56
35	2.34	.64

3rd Discharge Cycle 6/30/07 8:01AM

Load Time (Min.)	Battery A	Battery B
0	13.64	13.29
1	11.90	11.87
2	11.90	11.90
3	11.91	11.89
4	11.89	11.87
5	11.87	11.86
6	11.85	11.83
7	11.83	11.81
8	11.81	11.78
9	11.78	11.76
10	11.75	11.72
11	11.73	11.69
12	11.70	11.66
13	11.66	11.62
14	11.63	11.58
15	11.59	11.54
16	11.55	11.49
17	11.50	11.44
18	11.46	11.38
19	11.41	11.32
20	11.35	11.25
21	11.28	11.16
22	11.21	11.07
23	11.12	10.96
24	11.00	10.83
25	10.84	10.66
26	10.59	10.44
27	10.10	10.15
28	7.05	9.64
29	5.59	8.84
30	4.16	6.91
31	3.99	4.88
32	2.87	3.69
33	2.29	2.38
34	1.88	1.29
35	1.28	.69

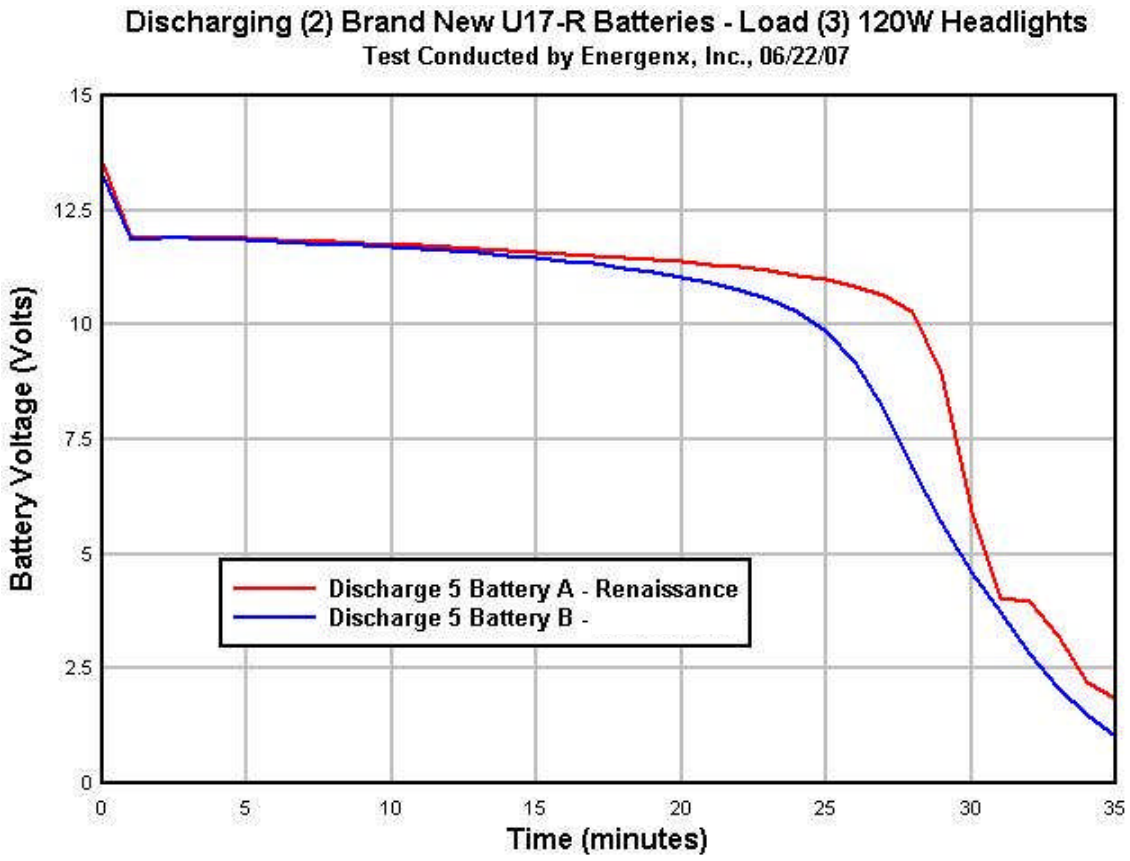
4th Discharge Cycle 7/1/07 8:46AM

Load Time (Min.)	Battery A	Battery B
0	13.54	13.26
1	11.93	11.87
2	11.94	11.88
3	11.93	11.87
4	11.91	11.85
5	11.89	11.83
6	11.87	11.80
7	11.85	11.78
8	11.82	11.75
9	11.80	11.72
10	11.77	11.68
11	11.74	11.65
12	11.70	11.61
13	11.66	11.56
14	11.64	11.52
15	11.60	11.47
16	11.55	11.41
17	11.51	11.35
18	11.47	11.28
19	11.41	11.18
20	11.35	11.11
21	11.29	11.00
22	11.21	10.87
23	11.11	10.71
24	10.98	10.51
25	10.81	10.22
26	10.56	9.76
27	9.92	8.96
28	7.27	7.67
29	5.50	6.16
30	4.09	4.87
31	4.00	3.62
32	3.22	2.57
33	1.76	1.64
34	1.10	1.13
35	1.07	.65

5th Discharge Cycle 7/2/07 7:28AM

Load Time (Min.)	Battery A	Battery B
0	13.56	13.26
1	11.89	11.87
2	11.92	11.90
3	11.91	11.89
4	11.90	11.87
5	11.88	11.84
6	11.85	11.82
7	11.83	11.79

8	11.81	11.76
9	11.78	11.73
10	11.76	11.69
11	11.73	11.66
12	11.70	11.62
13	11.67	11.57
14	11.63	11.52
15	11.60	11.46
16	11.56	11.40
17	11.52	11.33
18	11.48	11.25
19	11.43	11.15
20	11.38	11.04
21	11.32	10.91
22	11.26	10.76
23	11.18	10.55
24	11.09	10.28
25	10.99	9.87
26	10.84	9.19
27	10.64	8.15
28	10.29	6.88
29	8.94	5.70
30	5.92	4.61
31	4.03	3.73
32	3.96	2.82
33	3.21	2.09
34	2.19	1.50
35	1.83	1.04


Discharging (2) Brand New U17-R Batteries - Load (3) 120W Headlights
Test Conducted by Energenx, Inc., 06/22/07
Battery Voltage (Volts)
15
12.5
10
7.5
5
2.5
0
0
5
10
15
20
25
30
35
Time (minutes)
Discharge 5 Battery A - Renaissance
Discharge 5 Battery B -