

BATTERY AND TLD LIFE TEST Ivan Silhouette 6/26 to 7/26

	Inside	Inside	Inside	Outside	Outside		Outside	Outside	
	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	5-Jul	6-Jul	17-Jul	18-Jul
Cycles / Fully Charged Battery:	3000	2500	4100	3500	2740	2200	2500	3230	4442
Cycles / Fully charged Marine Battery:	5000	2900	4032	4756	N/A	N/A	11791	3723	3700
Operation Temperature:	?	?	125.6F	140.0F	147.2F	93.2F	105.8F	116.6F	147.6F
Continues Cycles :	8000	1400	8132	8256	2740	2200	14291	6953	4442
TOTAL FOR DAY:	8000	5400	8132	8256	2740	2200	14291	6953	8142

	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
	19-Jul	20-Jul	21-Jul	24-Jul	25-Jul	26-Jul		
Cycles / Fully Charged Battery:	3790	3500	4290	4200	N/A	2800		
Cycles / Fully charged Marine Battery:	N/A	3500	N/A	N/A	10731	7003		
Operation Temperature:	147.6F	147.6F	127.4F	129.2F	134.6F	N/A		
Continues Cycles :	3790	3500	4290	4200	10731	9803		
TOTAL FOR DAY:	3790	3500	4290	4200	10731	9803		

OVERALL TOTAL: 100428

Parts that needed replacing: 3 Shoulder-Bolts (Because of not having the heavy spring) **Part #:**
 Wore Motor Shaft (Sliding in and out, after 11000 Cycles)
 90 Degree Tyco Connector is breaking (was told it will not be used in future)
 Heavy Lifting Spring
 6-Jul Replaced heavy lifting spring with a lighter spring
 6-Jul Added a Diode to the motor, to prevent corrosion on the Motor Relay
 6-Jul Replaced Relay to Motor

Problems Seen With the TLD: Cable Routing to Control Box
 Trim Pots need better adjusting
 After approx. 30000 cycle, the only thing that was needed to do, was tighten the chain.
 Everything was tight and secure
 Target stopped. Disassembled it, and after I check the electronics, and reassembled, TLD started
 More than likely cause of problem was heat

Damaged or Wore Parts : 3 Shoulder-Bolts
 Motor Relay

Silhouette Weight : Ivan----- Approx 5 to 10lbs (Heavy Lifting Spring Not Needed)
 AR500----- Approx 55 to 60lbs (Use Heavy Lifting Spring)
 6ft Silhouette---- 10 to 20lbs (Use Heavy Lifting Spring)
 E2 Silhouette--- 2 to 5lbs (Heavy Lifting Spring Not Needed)