

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Daric Teske/Kyle I	Ejection Occurred		Apogee Altitude:	353 Ft
Rocket Name:	Discovery	<input type="checkbox"/> During Ascent	<input type="checkbox"/> At Apogee	Top Speed:	86 mph
Type:	Modelrockets.us	<input type="checkbox"/> After Apogee	<input checked="" type="checkbox"/> During Descent	Burn Time (burn):	2.2 s
Length: (inches)	22.625 in.	<input type="checkbox"/> Ejection Failure		Peak Acc (Pacc):	10.1
Diameter: (inches)	1.645 in.	Parachute Deployment		Avg Acc (Aacc):	1.8
Fins:	3	<input type="checkbox"/> Full	<input type="checkbox"/> Partial	Coast Apogee (C2AP):	4.2 s
Listed Mass: (g)	70.87 g	<input checked="" type="checkbox"/> Did not deploy		Apogee to Eject (AP2E):	-0.1 s
Date of Construction:	9/1/2013-9/27/2013	Parachute Descent		Ejection Alt. (EALt):	325 Ft
Recommended Motors: (C only)	C6-3, C6-5	<input type="checkbox"/> Stable Descent	<input type="checkbox"/> Tangled lines	Descent Speed (dESc):	36 mph
		<input type="checkbox"/> Some swaying	<input type="checkbox"/> Sprial descent	Flight Duration (durA):	12.6 s
		Reason for Recovery Failure		Altimeter Data Analysis	
Center Gravity(CG):	25.5 cm from top	<input type="checkbox"/> Damaged Chute		Everything looked great except the Apogee to Eject was way off, as the nose cone popped way late, and the parachute didn't deploy at all.	
Center Pressure(CP):		<input type="checkbox"/> Tight Upper Body tube			
Estimated Cd:		<input type="checkbox"/> Improper setup			
Predicted Altitude:	350	<input type="checkbox"/> Chute Separated			
Prediction Notes		<input type="checkbox"/> Motor Ejected			
Seems to be the average height from 2012-2013's launches		<input type="checkbox"/> Unplanned Separation			
		<input type="checkbox"/> Other			
		Descent Speed			
		<input type="checkbox"/> Slow	<input type="checkbox"/> Average speed		
		<input type="checkbox"/> Very fast	<input checked="" type="checkbox"/> Ballistic		
Launch Information		Landing			
Date:	10/10/2013	<input type="checkbox"/> Soft	<input type="checkbox"/> Water		
Time of Launch:	11:15:00	<input type="checkbox"/> Tree	<input type="checkbox"/> Caught on Wire		
Location:	Driving Range	<input checked="" type="checkbox"/> Hard	<input type="checkbox"/> Crash		
Rocket Mass: (g)	79.5	<input type="checkbox"/> Landed on Building			
Motor:	C6-5	Recovery		Post Launch Information	
Motor Mass: (g)	25.1	<input checked="" type="checkbox"/> Full Recovery	<input type="checkbox"/> Lost	Rocket Damage	
Altimeter Mass:	6.7	<input type="checkbox"/> Not Recoverable	<input type="checkbox"/> Parts lost	<input checked="" type="checkbox"/> No Damage	
Liftoff Mass: (g)	111.3	Distance & Direction from pad:		<input type="checkbox"/> Scuffed Paint	
Wind Direction:	South-Southeast	50 yards south west of launch site		<input type="checkbox"/> Launch Lugs	
Wind Speed:	13 mph	Recovery Notes		<input type="checkbox"/> Engine Stuck	
Igniter:	Estes	All parts were there, parachute just barely still in tube. No damage noted		<input type="checkbox"/> Fins Damaged	
No. of tries to ignite:	1			Describe any damage to the rocket:	
Ignition				None	
<input checked="" type="checkbox"/> Successful	<input type="checkbox"/> Blow Out				
<input type="checkbox"/> Caught on clips	<input type="checkbox"/> Motor Failure				
Trajectory				Flight Grade	
<input type="checkbox"/> Straight-Up	<input type="checkbox"/> Spinning			<input type="checkbox"/> Excellent	
<input type="checkbox"/> Corkscrew	<input type="checkbox"/> Non-vertical			<input checked="" type="checkbox"/> Good	
<input checked="" type="checkbox"/> Into the wind	<input type="checkbox"/> Unstable			<input type="checkbox"/> Poor	
Launch Notes		Lessons Learned		Rocket Project Suggestions	
Good launch, into wind-should have aimed it further with the wind. Launch lug and engine mount very secure		We needed to pack the parachute differently. We put all the slack cord on top of the chute, when we should have put the chute in very last, so that the shock cord and shroud lines pulled the chute out more effectively.		Spend more time on how and why we pack it a certain way. A lot of people had a parachute deployment failure.	