

## Cruise Stage Separation

Time: Entry - 10 min

## Cruise Balance Devices Separation

Time: Entry - ~8 min

## Entry Interface

Altitude: ~78 miles (~125 km)  
Velocity: ~13,200 mph (~5,900 meters/sec)  
Time: Entry + 0 sec

## Peak Heating

## Peak Deceleration

## Hypersonic Aero-maneuvering

## Heat Shield Separation

Altitude: ~5 miles (~8 km)  
Velocity: ~280 mph (~125 meters/sec)  
Time: Entry + ~278 sec

## Parachute Deploys

Altitude: ~7 miles (~11 km)  
Velocity: ~900 mph (~405 meters/sec)  
Time: Entry + ~254 sec

## Radar Data Collection

## Back Shell Separation

Altitude: ~1 mile (~1.6 km)  
Velocity: ~180 mph (~80 meters/sec)  
Time: Entry + ~364 sec

## Powered Descent

## Sky Crane

## Flyaway

## Sky Crane Detail

### Rover Separation

Altitude: ~66 feet (~20 meters)  
Velocity: ~1.7 mph (~0.75 meter/sec)  
Time: Entry + ~400 sec

### Mobility Deploy

### Touchdown

Altitude: 0  
Velocity: ~1.7 mph (~0.75 meter/sec)  
Time: Entry + ~416 sec

### Flyaway

