

- Impact overall view: basic dimensions
- Estimated natural frequency (based on Lunar Prospector Magnetometer Boom): 10.8 Hz



- Local X-axis view of STE Field of View
- Lead detector canted by 10 Degrees to avoid SWAVES antennas
- Detector positioned to follow Parker Field Lines
- Conductive and absorptive thermal isolation
- 'Lead' S/C shown, mount plate allows rotation for 'follower' orientation



- STE local Y-axis field of view, showing clearance of SWEA
- 80 X 80 degree F.O.V.
- Estimated mass: 350 gr
- Mag base aligned with STE



- SWEA F.O.V. clearing STE
- Offset along local Xaxis to avoid STE F.O.V.



•Magnetometer requirements:

- 150 mm from STE/SWEA harness
- In sunlight
- Non magnetic, nonmetallic mounts and hardware
- No search coil influence



- Proposed Search Coil: (part of SWAVES)
 - Pre-amplifier
 - Accepts interference
 from magnetometer
 drive frequencies
 - Wire Loop



Sunshield for STE: