



Dock/RV Spring Interaction

SCSI Harbor
B. Sun, D. Ngo
sgi

Spring Force 1.0 in Spacing

- **RV spring force for 0.04 inch clearance**
 - nominal 3.9 lb
 - worst case 1.4 lb
- **RV spring force for 0.07 inch clearance**
 - nominal 2.05 lb
 - worst case 0.4 lb

Spring Force 1.6 in Spacing

- **RV spring force for 0.04 inch clearance**
 - nominal 5.5 lb
 - worst case 2.0 lb
- **RV spring force for 0.07 inch clearance**
 - nominal 2.83 lb
 - worst case 0.6 lb

Conclusion

- **Spring Force varies almost 300% due to dock deflection**
- **Can add stiffener panels between drives 2&3 and 6&7 of 1.6" spacing**
- **Can look into a design where dock deflection may not be an issue**