APPENDIX B - MOUNT SPECIFIC DATA
For
VERTEX DMK/SMK Mounts

1.2 Mount Models

DESIGNATION	MODEL
V1	2.4 m. DMK
V2	1.5 m. SMK
V3	2.6 m. DMK
V4	1.2 m. SMK
V5	1.5 m. SMK-LT
V6	RC3000C pointing solution calculator
V7	1.2 m. SMK-LT
V8	1.8 m. SMK-LT
VG	1.8 m. SMK-LT with +/- 200 azimuth travel

1.3.2 System Interface Requirements

All mounts in the Vertex family follow the standard RC3000 interface requirements.

2.1.4 Inclinometer Orientation

The inclinometer should be rigged with the face of the reflector vertical.

2.3.2 Elevation Reference Position

MODEL	VOLTAGE	OFFSET ANGLE
V1	1.69	22.3
V2	1.69	15.8
V3	1.69	22.3
V4	1.69	15.8
V5	1.69	15.8
V6	N/A	N/A
V7	1.69	12.8
V8	1.10	18.8
VG	1.10	18.8

3.3.1.2 Reset Defaults

The following table supplies the default configuration item values for each model of mount.

Space has also been provided to record installation specific changes to the configuration items. Note: recording of installation specific changes to defaults may prove valuable when trying to restore system configuration.

CONFIGURATION ITEM	V1	V2	V3	V4	V5	V7	V8	VG	INSTALL VALUE
SYSTEM DEFINITION									
antenna_size_cm	244	150	260	120	150	120	180		
AZIMUTH CALIBRATION									
Zero Voltage	2.50								
Azim_offset	0.0								
ccw_azim_limit	180		90					180	
Cw_azim_limit	180		90					180	
Azim_Scale_Factor	75.00	75.00	37.50	75.00	56.25	56.25	56.25	80.0	
ELEVATION CALIBRATION									
Zero Voltage	1.69							1.10	
Elev_offset	0.0								
Up_elev_limit	90								
Down_elev_limit	0								
Elevation_Scale_Factor	50.00								
Elevation_look_configuration	1								
POLARIZATION CAL									
Zero Voltage	2.50								
Polarization_Offset	0.0								
CW Polarization Limit	90.0								
CCW Polarization Limit	90.0								
Pol_Scale_Factor									
Polarization_type	2								
H/V_Reference	1								
Default Horizontal Position	-45.0								
Default Vertical Position	45.0								
Pol_Automove_Enable	1								
SIGNAL PARAMETERS									
Channel 1 Polarity	1								
Channel 1 Threshold	100								
Channel 1 Delay	0.1								
Channel 1 Lock Type	0								
Channel 2 Polarity	1								
Channel 2 Threshold	100								
Channel 2 Delay	0.1								
Channel 2 Lock Type	0								
AUTOPEAK									
Autopeak Enabled	0								
Signal Source	1								
RF Band	1								
Spiral Search AZ Limit	3								
Spiral Search EL Limit	3								
Spiral Signal Threshold	200								
Scan Range Limit	8								
Scan Signal Threshold	200								

CONFIGURATION ITEM	V1	V2	V3	V4	V5	V7	V8	VG	INSTALL VALUE
AZIMUTH POT DRIVE									
Fast/Slow Threshold	2.5								
Maximum Position Error	0.20								
Coast Threshold	0.1								
Maximum Retry Count	3								
AZIMUTH PULSE DRIVE									
Pulse Scale Factor	2406								
CW Pulse Limit	64000								
CCW Pulse Limit	100								
Fast/Slow Threshold	50								
Maximum Position Error	0								
Coast Threshold	3								
Maximum Retry Count	3								
AZIM DRIVE MONITORING									
Jam Slop	1								
Runaway Slop	200								
Fast Deadband	1000								
Slow Deadband	500								
ELEV POT DRIVE									
Fast/Slow Threshold	3.0								
Maximum Position Error	0.2								
Coast Threshold	0.4								
Maximum Retry Count	3								
ELEV PULSE DRIVE									
Pulse Scale Factor	1646								
UP Pulse Limit	64000								
Down Pulse Limit	100								
Fast/Slow Threshold	50								
Maximum Position Error	0								
Coast Threshold	3								
Maximum Retry Count	3								
ELEV DRIVE MONITORING									
Jam Slop	1								
Runaway Slop	200								
Fast Deadband	1000								
Slow Deadband	500								
POL POT DRIVE									
Fast/Slow Threshold	2.0								
Maximum Position Error	0.5								
Coast Threshold	0.3								
Maximum Retry Count	3								
POL DRIVE MONITORING									
Jam Slop	1								
Runaway Slop	200								
Fast Deadband	1000								
Slow Deadband	500								

CONFIGURATION ITEM	V1	V2	V3	V4	V5	V7	V8	VG	INSTALL VALUE
TRACK									
Search Enable	0								
Max Track Error	3								
Search Width	4								
Peakup Holdoff Time	120								
Track Signal Source	2								
Signal Sample Time	2								
REMOTE CONTROL									
Remote Enabled	1								
Bus Address	50								
Baud Rate	6								
STOW / DEPLOY									
AZ STOW	0.0								
EL STOW	-67.5								
PL STOW	0.0								
AZ DEPLOY	0.0								
EL DEPLOY	22.3	15.8	22.3	15.8	15.8	12.8	18.8	18.8	
PL DEPLOY	0.0								
PL ENABLED	0								