

## APPENDIX B - MOUNT SPECIFIC DATA

### For Vertex 15/18 SF Mount

Date: 6 June 2006

Software: 1.56

This appendix describes RC3000 operations unique for the Vertex 15/18 SF mount. Differences between this version and the operation described in the "baseline" RC3000 manual are noted on a paragraph by paragraph basis.

#### 1.1 Manual Organization

This appendix is provided as a supplement to the baseline RC3000 manual.

#### 1.2 Mount Models

DESIGNATION	MODEL
VL	15/18 SF

#### 1.3.2 System Interface Requirements

This mount from the Vertex family follows the standard RC3000 interface requirements with the exception of having no elevation stow switch.

#### 2.1.4 Inclinometer Orientation

The inclinometer should be rigged with the reflector at the 45 degree look angle position.

#### 2.3.2 Elevation Reference Position

MODEL	VOLTAGE	OFFSET ANGLE
VL	2.58	45.0

#### 3.3.1.2 Reset Defaults

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

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	VL							INSTALL VALUE
<b>SYSTEM DEFINITION</b>								
antenna_size_cm	180							
<b>AZIMUTH CALIBRATION</b>								
Zero Voltage	2.50							
Azim_offset	0.0							
ccw_azim_limit	120							
Cw_azim_limit	120							
Azim_Scale_Factor	50.0							
<b>ELEVATION CALIBRATION</b>								
Zero Voltage	2.58							
Elev_offset	0.0							
Up_elev_limit	90							
Down_elev_limit	0							
Elevation_Scale_Factor	50.00							
Elevation_look_configuration	1							
<b>POLARIZATION CAL</b>								
Zero Voltage	2.50							
Polarization_Offset	0.0							
CW Polarization Limit	95.0							
CCW Polarization Limit	95.0							
Pol_Scale_Factor	10.0							
Polarization_type	1							
H/V_Reference	1							
Default Horizontal Position	-45.0							
Default Vertical Position	45.0							
Pol_Automove_Enable	1							
<b>SIGNAL PARAMETERS</b>								
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							
<b>AUTOPEAK</b>								
Autopeak Enabled	0							
Signal Source	1							
RF Band	1							
Spiral Search AZ Limit	5							
Spiral Search EL Limit	5							
Spiral Signal Threshold	200							
Scan Range Limit	10							
Scan Signal Threshold	200							

<b>CONFIGURATION ITEM</b>	<b>VL</b>						<b>INSTALL VALUE</b>
<b>AZIMUTH POT DRIVE</b>							
Fast/Slow Threshold	1.5						
Maximum Position Error	0.20						
Coast Threshold	0.1						
Maximum Retry Count	3						
<b>AZIMUTH PULSE DRIVE</b>							
Pulse Scale Factor	2000						
CW Pulse Limit	64000						
CCW Pulse Limit	100						
Fast/Slow Threshold	50						
Maximum Position Error	1						
Coast Threshold	5						
Maximum Retry Count	3						
<b>AZIM DRIVE MONITORING</b>							
Jam Slop	1						
Runaway Slop	400						
Fast Deadband	1000						
Slow Deadband	500						
<b>ELEV POT DRIVE</b>							
Fast/Slow Threshold	1.5						
Maximum Position Error	0.2						
Coast Threshold	0.1						
Maximum Retry Count	3						
<b>ELEV PULSE DRIVE</b>							
Pulse Scale Factor	2050						
UP Pulse Limit	64000						
Down Pulse Limit	100						
Fast/Slow Threshold	50						
Maximum Position Error	0						
Coast Threshold	3						
Maximum Retry Count	3						
<b>ELEV DRIVE MONITORING</b>							
Jam Slop	1						
Runaway Slop	500						
Fast Deadband	1000						
Slow Deadband	500						
<b>POL POT DRIVE</b>							
Fast/Slow Threshold	1.5						
Maximum Position Error	0.3						
Coast Threshold	0.1						
Maximum Retry Count	3						
<b>POL DRIVE MONITORING</b>							
Jam Slop	1						
Runaway Slop	200						
Fast Deadband	1000						
Slow Deadband	500						

