

## APPENDIX B - MOUNT SPECIFIC DATA For

### PATRIOT Antenna Systems

#### 1.2 Mount Models

DESIGNATION	MODEL
P3	1.8 meter
P4	1.2 meter

#### 1.3.2 System Interface Requirements

All mounts in the Patriot 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
P3	1.69	22.3
P4	1.69	22.3

#### 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	P3	P4				INSTALL VALUE
<b>SYSTEM DEFINITION</b>						
GPS	1					
COMPASS	2					
MODE	2					
antenna_size_cm	180	120				
Waveguide	0					
<b>ELEVATION CALIBRATION</b>						
Zero Voltage	1.69					
Elev_offset	0.0					
Up_elev_limit	90					
Down_elev_limit	0					
Elevation_Scale_Factor	50.00					
Elevation_look_configuration	1					
<b>AZIMUTH CALIBRATION</b>						
Zero Voltage	2.50					
Fluxgate_offset	0.0					
ccw_azim_limit	200					
Cw_azim_limit	200					
Azim_Scale_Factor	60.50	83.33				
<b>POLARIZATION CAL</b>						
Zero Voltage	2.50					
Polarization_Offset	0.0					
CW Polarization Limit	90.0					
CCW Polarization Limit	90.0					
Pol_Scale_Factor	49.00	39.58				
Polarization_type	2					
H/V_Reference	1					
Default Horizontal Position	90.0					
Default Vertical Position	0.0					
Pol_Automove_Enable	1					
<b>SIGNAL PARAMETERS</b>						
RF Lock Type	0					
RF Delay	0.1					
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	3					
Spiral Search EL Limit	3					
Spiral Signal Threshold	200					
Scan Range Limit	8					
Scan Signal Threshold	200					

<b>CONFIGURATION ITEM</b>	<b>P3</b>	<b>P4</b>			<b>INSTALL VALUE</b>
<b>AZIMUTH POT DRIVE</b>					
Fast/Slow Threshold	2.5				
Maximum Position Error	0.20				
Coast Threshold	0.1				
Maximum Retry Count	3				
<b>AZIMUTH PULSE DRIVE</b>					
Pulse Scale Factor	N/A				
CW Pulse Limit	N/A				
CCW Pulse Limit	N/A				
Fast/Slow Threshold	N/A				
Maximum Position Error	N/A				
Coast Threshold	N/A				
Maximum Retry Count	N/A				
<b>AZIM DRIVE MONITORING</b>					
Jam Slop	1				
Runaway Slop	200				
Fast Deadband	1000				
Slow Deadband	500				
<b>ELEV POT DRIVE</b>					
Fast/Slow Threshold	3.0				
Maximum Position Error	0.2				
Coast Threshold	0.4				
Maximum Retry Count	3				
<b>ELEV PULSE DRIVE</b>					
Pulse Scale Factor	N/A				
UP Pulse Limit	N/A				
Down Pulse Limit	N/A				
Fast/Slow Threshold	N/A				
Maximum Position Error	N/A				
Coast Threshold	N/A				
Maximum Retry Count	N/A				
<b>ELEV DRIVE MONITORING</b>					
Jam Slop	1				
Runaway Slop	200				
Fast Deadband	1000				
Slow Deadband	500				
<b>POL POT DRIVE</b>					
Fast/Slow Threshold	2.0				
Maximum Position Error	0.5				
Coast Threshold	0.3				
Maximum Retry Count	3				
<b>POL DRIVE MONITORING</b>					
Jam Slop	1				
Runaway Slop	200				
Fast Deadband	1000				
Slow Deadband	500				

<b>CONFIGURATION ITEM</b>	<b>P3</b>	<b>P4</b>				<b>INSTALL VALUE</b>
<b>TRACK</b>						
Search Enable	N/A					
Max Track Error	N/A					
Search Width	N/A					
Peakup Holdoff Time	N/A					
Track Signal Source	N/A					
Signal Sample Time	N/A					
<b>REMOTE CONTROL</b>						
Remote Enabled	1					
Bus Address	50					
Baud Rate	6					
<b>STOW / DEPLOY</b>						
AZ STOW	0.0					
EL STOW	-67.5					
PL STOW	0.0					
AZ DEPLOY	0.0					
EL DEPLOY	22.3					
PL DEPLOY	0.0					
PL ENABLED	1					
EL_TIME	0					