

## APPENDIX B - MOUNT SPECIFIC DATA For

### Patriot 1.8m C-band, Wide A

#### 1.2 Mount Models

This appendix describes the RC3000 variation built for use by the Patriot 1.8m C-band, Wide A antenna ("model 1878"). This model is known as "P8".

#### 1.3.2 System Interface Requirements

The P8 mount follows the standard RC3000 interface requirements.

#### 2.3.2 Elevation Calibration

##### Elevation Reference Position

From the face vertical reflector position, the elevation reference voltage should be close to 1.69 V. The elevation displayed at this voltage will be 22.3 reflecting the RF offset of the antenna.

#### 3.3.1.2 Reset Defaults

The following table supplies the default configuration item values for this model of the RC3000.

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.

<b>CONFIGURATION ITEM</b>	<b>P8 Default</b>					<b>INSTALL VALUE</b>
<b>SYSTEM DEFINITION</b>						
Serial Number	0					
GPS	1					
COMPASS MOUNT	1					
COMPASS TYPE	1					
MODE	2					
antenna_size_cm	180					
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>						
Reference Voltage	2.50					
Fluxgate_offset	0.0					
ccw_azim_limit	190					
Cw_azim_limit	190					
Azim_Scale_Factor	83.5					
<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	55.3					
Polarization_type	2					
H/V_Reference	1					
Default Horizontal Position	0.0					
Default Vertical Position	90.0					
Pol_Automove_Enable	1					

<b>CONFIGURATION ITEM</b>	<b>P8 Default</b>					<b>INSTALL VALUE</b>
<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					
Tilt Compensation	0					

<b>CONFIGURATION ITEM</b>	<b>P8 Default</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	1145					
CW Pulse Limit	64000					
CCW Pulse Limit	100					
Fast/Slow Threshold	50					
Maximum Position Error	1					
Coast Threshold	3					
Maximum Retry Count	3					
<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	1210					
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	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>P8 Default</b>					<b>INSTALL VALUE</b>
<b>TRACK</b>						
Search Enable	0					
Max Track Error	3					
Search Width	4					
Peakup Holdoff Time	120					
Track Signal Source	2					
Signal Sample Time	2					
<b>REMOTE CONTROL</b>						
Remote Enabled	1					
Bus Address	50					
Baud Rate	6					
Jog Duration	20					
<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					
<b>SHAKE</b>						
AZ1	-40.0					
EL1	30.0					
PL1	-10.0					
AZ2	50.0					
EL2	40.0					
PL2	10.0					
AZ3	0.0					
EL3	-67.5					
PL3	0.0					
CYCLES	5					
DELAY	1					