

900-06002 SPHERE TWIN LNB SATELLITE SYSTEM. SSA-850 SERVICE MANUAL



Please read the User Manual in its entirety before installing or operating this product.

Disclaimer:

Coast RV PTY LTD accepts no liability for any loss or damage, which may occur as a result of improper or unsafe use of its products.

Warranty is only valid if the product has not been modified or misused and the original proof of purchase can be provided.

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Dip Switch Function

| Dip Switch | Mode | Dip Switch | Mode |
|------------|---------------------|------------|--------------------------|
| : Up : Dn | | : Up : Dn | |
| | NORMAL OPERATION | | N/A |
| | N/A | | Manual Mode Elevation |
| | N/A | | Manual Mode Azimuth |
| | N/A | | Manual Mode Skew |



IDU Cable Pin Description

| Sensors | | | | | Sensor PWR | | MOTOR POWER | | | | |
|----------|----------|------------|------------|------------|---------------|-----|-------------|------|------|------|------|
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| EL limit | AZ limit | NOT IN USE | SK Encoder | AZ Encoder | EL Encoder | GND | VCC(5V) | AZ-b | AZ-a | q-T3 | EL-a |
| | | | | | | | | | | | |

color



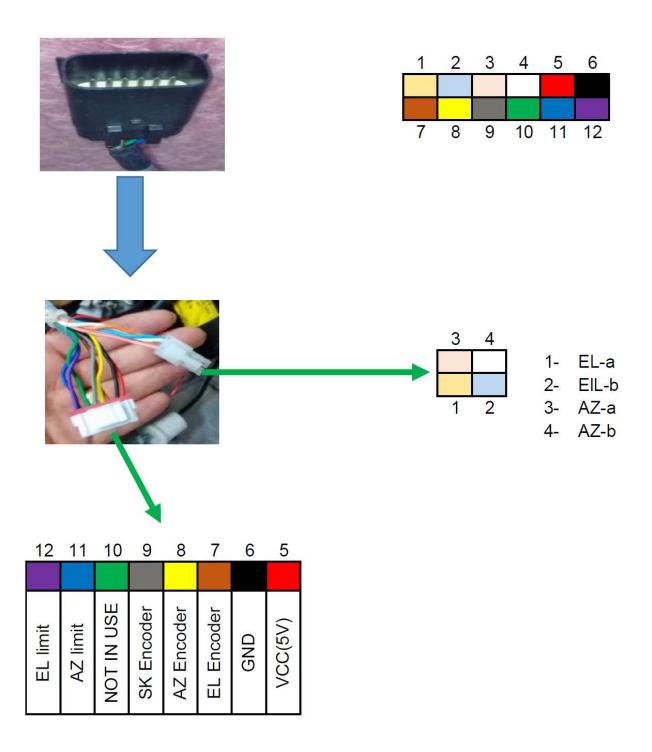






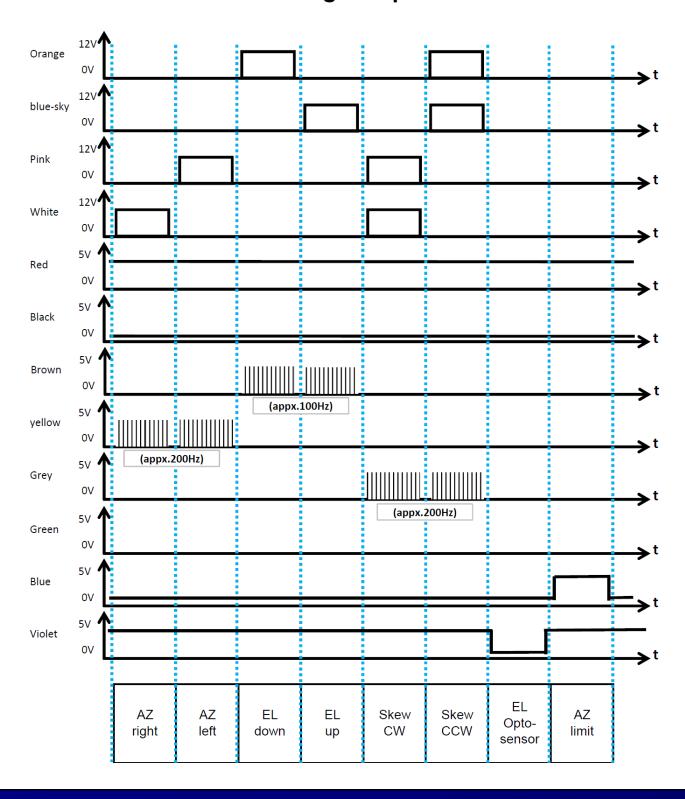


ODU Cable Pin Description



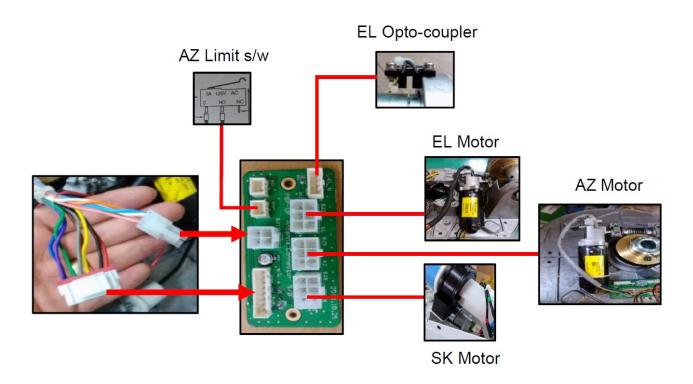


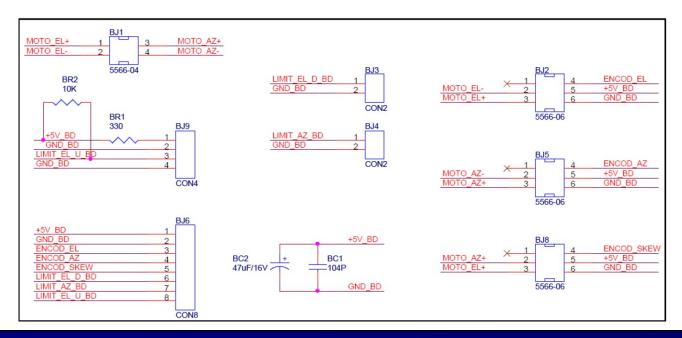
Voltage output





ODU Board Cable Drawing



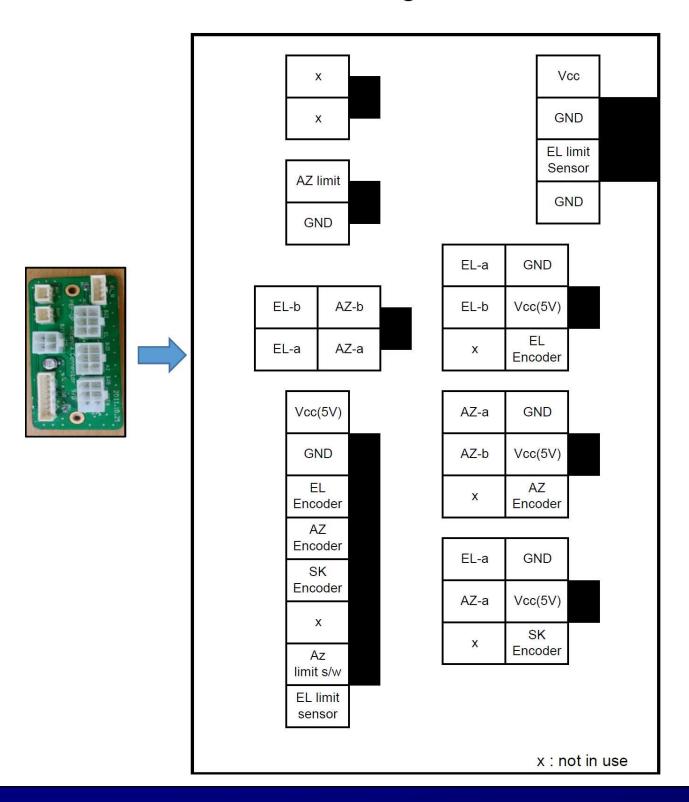


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ODU Board Pin Assignment





Error Messages

| AZ COUNT | IDU detects current of AZ motor but No encoder pulse of azimuth motor detected. Check if the cable is connected well. Check the pulse of the encoder on maunal control mode. It should be around 200Hz, 0V to 5V. | |
|-----------------|---|--|
| EL COUNT | IDU detects current of EL motor but No encoder pulse of elevation motor detected. Check if the cable is connected well. Check the pulse of the encoder on maunal control mode. It should be around 100Hz, 0V to 5V. | |
| SK COUNT | IDU detects current of SK motor but No encoder pulse of skew motor detected. Check if the cable is connected well. Check the pulse of the encoder on maunal control mode. It should be around 200Hz, 0V to 5V. | |
| AZ MOTOR NO PWR | IDU command to move AZ motor but No current deteced. Check if the cables are connected well. Check the output voltage of pin 3 and 4 on Manual control mode. Right/Left voltage should be -12V or +12V. | |
| EL MOTOR NO PWR | IDU command to move ELmotor but No current deteced. Check if the cables are connected well. Check the output voltage of pin 1 and 2 on Manual control mode. Up/Down voltage should be -12V or +12V. | |
| SK MOTOR NO PWR | IDU command to move SK motor but No current deteced. Check if the cables are connected well. Check the output voltage of pin 1 and 3 on Manual control mode. CW/CCW voltage should be -12V or +12V. | |
| AZ MOTOR STALL | IDU detects AZ current but no movement(the period of encoder pulse is very long. It means that something stops the motor movement) Check it the antenna is intefered by something to move. | |
| EL MOTOR STALL | IDU detects EL current but no movement(the period of encoder pulse is very long. It means that something stops the motor movement) Check it the antenna is intefered by something to move. | |
| SK MOTOR STALL | IDU detects SK current but no movement(the period of encoder pulse is very long. It means that something stops the motor movement) Check it the antenna is intefered by something to move. | |