*INTREPID*120V
Assembly Instructions

PM-INT120V-ASSY-002-11023

Advantech Wireless

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What Should You Have?

- There should be 3 flight cases see below and either
  - A further cardboard box containing a User Interface Unit (UIU)
  - Or a further flight case containing the UIU and a Modem

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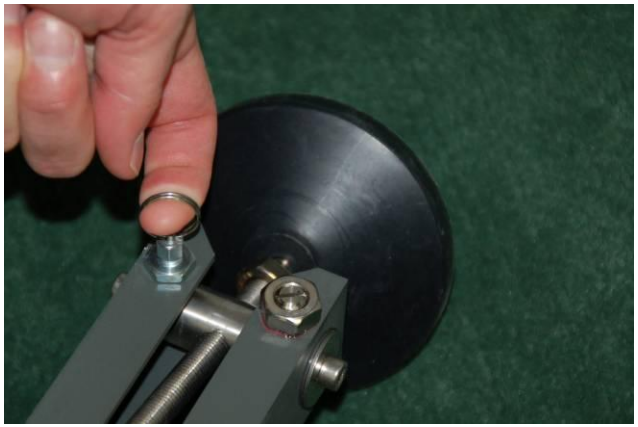
What Should You Have?

- The longest Flight Case Contains the main body of the antenna and motors (pictured below) you may need this for re-packing.

Stage 1 – The Tripod

- Remove the antenna legs from the flight case and move the feet from the packed position to the operational position

(1)



(2)

- Pull pin as above (1)
- Rotate feet into position (2)
- Locate pin to lock feet into position

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Stage 1 – The Tripod

- Open out legs and ensure central stabilizer is firmly seated (see arrow)

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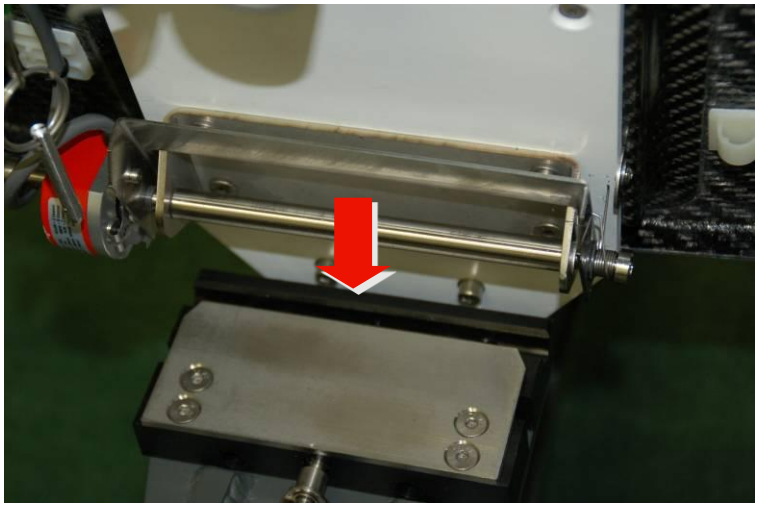
Stage 2 – The Reflector

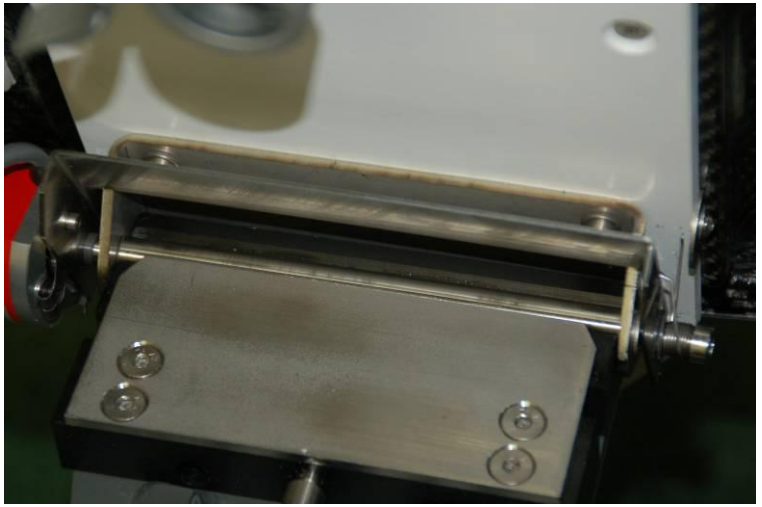
- The second flight case (Semi-circular bag) has two compartments containing the reflector

Stage 2 – The Reflector

- Take either the bottom half of the reflector



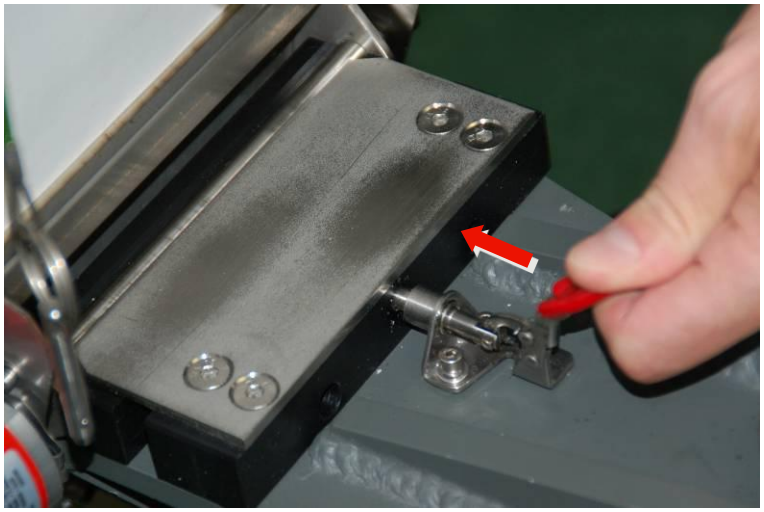
- Locate the metal bar on the reverse of the antenna (see arrow) into the channel on the tripod base



Stage 2 – The Reflector

- Take the red lever shown below (1) and slide locking plate in place by moving in the direction of the arrow until locked (2)

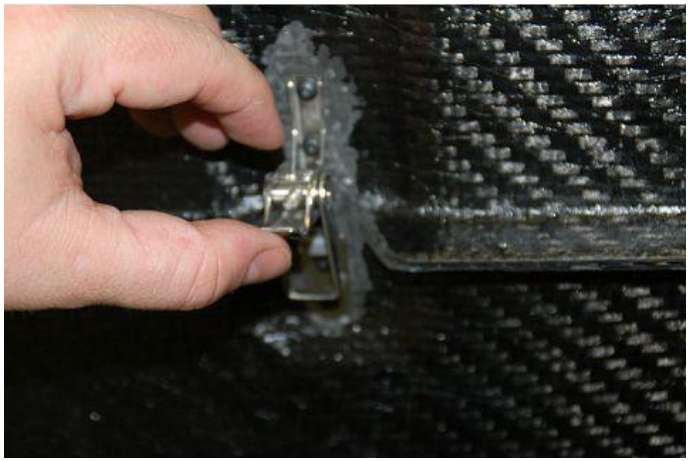
(1)



(2)

Stage 2 – The Reflector

- Attach either the top half of the reflector and secure with the clips shown below



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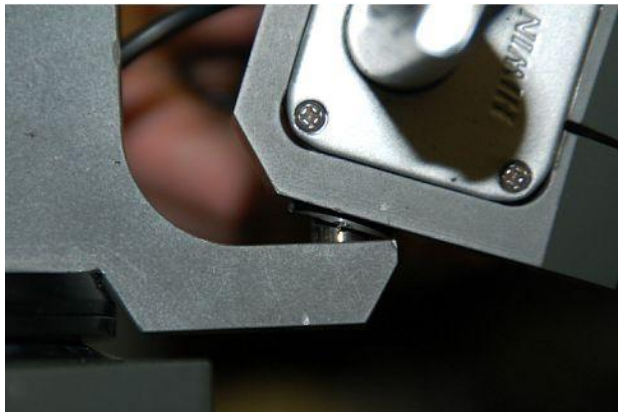
Stage 3 – The Motors

- Allow the reflector assembly move forward a per picture below

Stage 3 – The Motors

- Take the Azimuth motor (shorter motor) and locate the lower hole onto the locating pin in the Azimuth (horizontal) motor drive fixing bracket on the tripod shown in below (1)

(1)



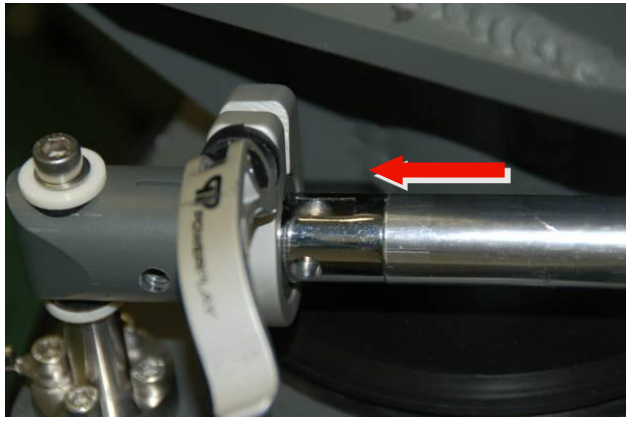
- Locate the clamp bolt (2) and tighten.

(2)

Stage 3 – The Motors

- Insert motor shaft into pivot point (1)

(1)



(2)

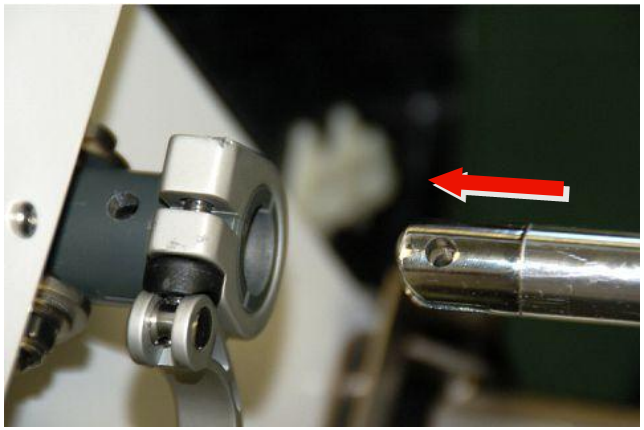
- Insert pin (2)
- Lock in position (3)

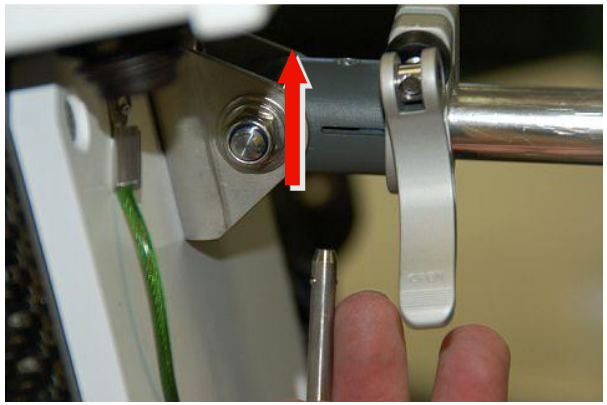
(3)

Stage 3 – The Motors

- Insert the Elevation (longer motor) motor shaft into pivot point on the rear of the reflector (1)

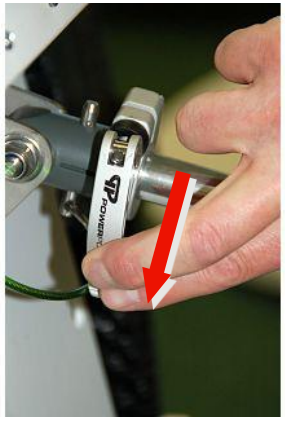
(1)





(2)

- Insert pin (2)
- Lock in position (3)



(3)

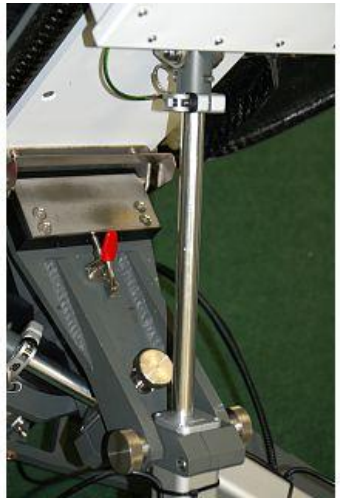
Stage 3 – The Motors

- Locate Motor in the Elevation Motor Bracket (1)

(1)

(2)

- Locate the 2 clamp bolts one each side (2) and tighten.
- Finished assembly shown in (3)

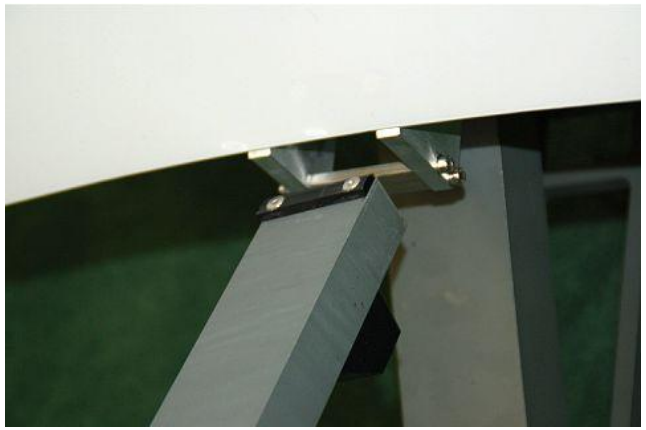


(3)

Stage 4 – The Feed Arm

- Take the Feed Arm (1)
- Locate Feed Arm in the base of the Reflector (2)
- Lower Feed Arm gently until located (3)

(1)



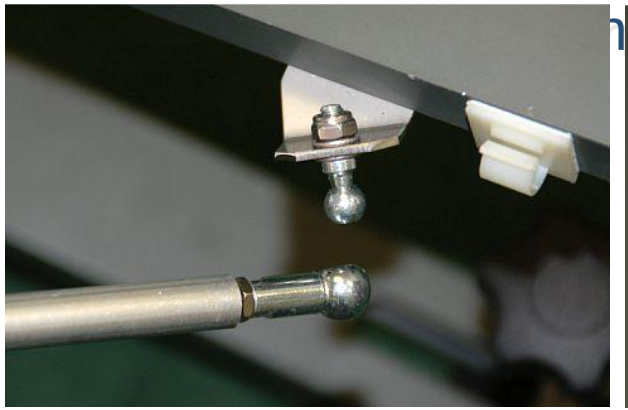
(2)

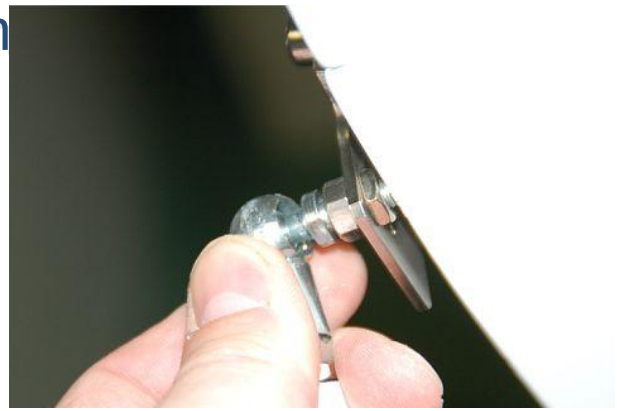
(3)

Stage 4 – The Feed Arm

WARNING THIS MUST BE DONE BEFORE ANY FURTHER PARTS ARE FITTED OR DAMAGE MAY OCCUR TO REFLECTOR

- Take the Feed Arm stabilizer bars and attach onto the feed arm (1)
- Attach onto the reflector (2)





(1) (2) (3)

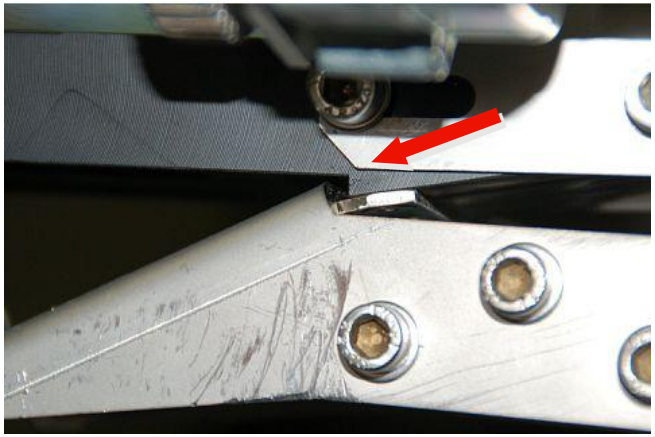
Stage 4 – Pol Assembly

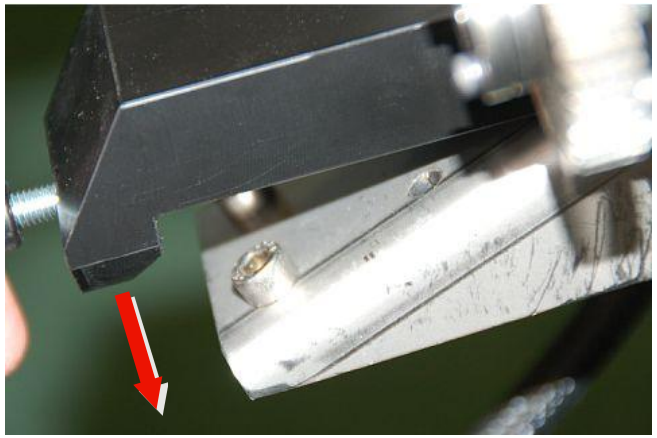
- In the third box is the Polarization Assembly (see below)

Stage 4 – Pol Assembly

- Take the Pol Assembly slide clip into end of the feed arm (1)

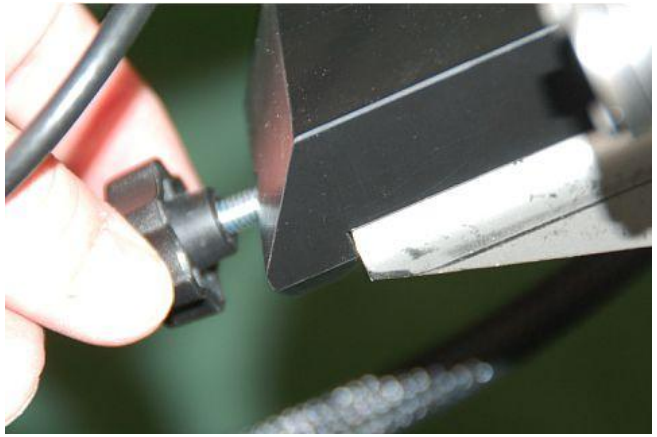
(1)





(2)

- Gently lower the assembly onto the feed arm (2)
- Tighten thumbscrew to secure Pol assembly (3)

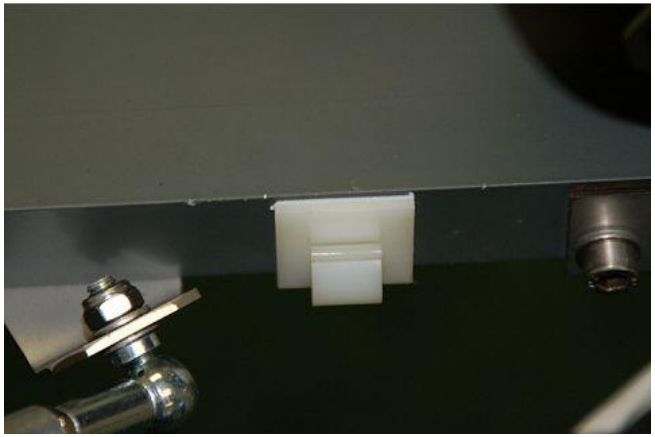


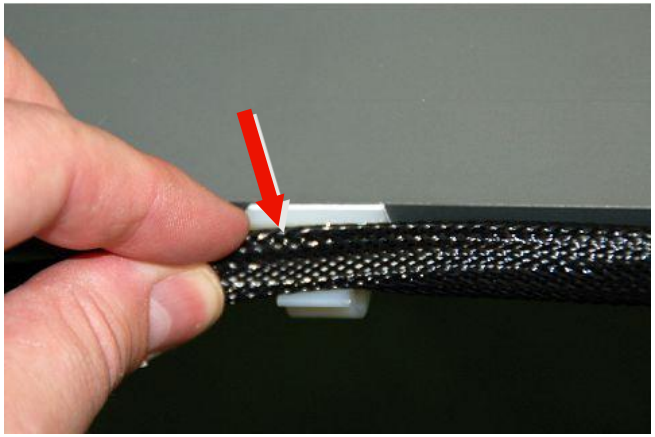
(3)

Stage 5 – Cabling

- There are 3 white clips along the feed arm as in picture (1)

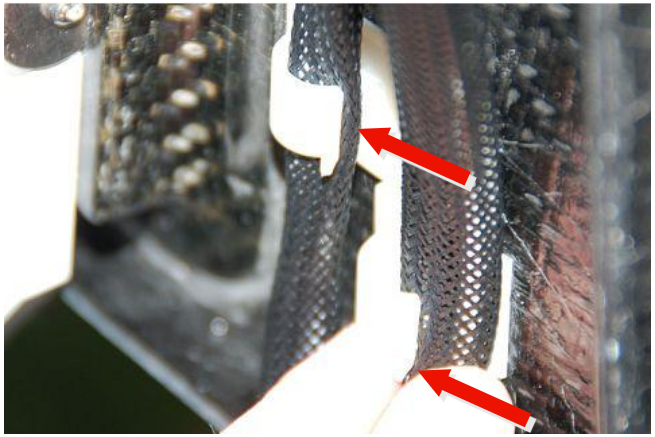
(1)





(2)

- Gently push the black Pol cable into the three clips (2)
- On the rear of the reflector there are 2 further clips, attach locate the Pol cable & the Azimuth cable



(3)

Stage 5 – Cabling

- Attach the receive RF cable (1)

(1)

(2)

- Attach the Az motor drive and Feedback connectors (2)

- Attach the Pol Motor and Feedback connectors (3)

(3)

Stage 5 – Cabling

- Attach the Elevation Motor connector (1)

(1)

(2)

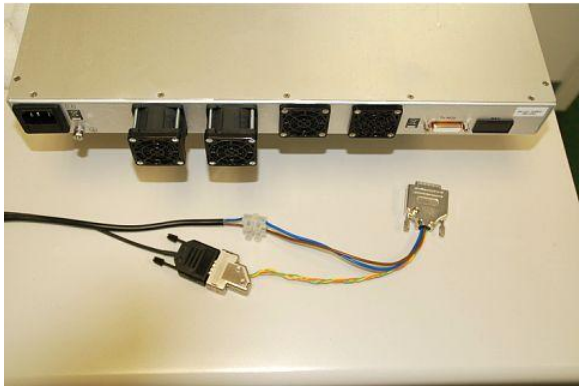
- Attach the power connection (right angled connector) (2)
- Attach the RS232 connector (3)

(3)

Stage 5 – Cabling

- The final box contains the UIU (1)

(1)



(2)

- Attach 15 way D-type to the UIU (2)

Ready to go!!

- Place the front leg pointing approximately South
- As per the Ipoint Manual manual you can select a Target and Reference Satellites
- Press ENTER when DEPLOY is highlighted on the UIU.
- Or press the green “Deploy” button on the antenna.

- The antenna should lock onto the Target in <3 mins