PTP-002
PANDORA TILT PLATE KIT

The Pandora #PTP-002 Tilt Plate kit includes a special mount for use with the following brands of 30mm square OSD type video cameras:

> dpcav's #DPC-420A
> dpcav's #DPC-480A
> Intelligent Flight's #IF-OSC

The included Tilt Plate replaces item #9 provided in the stock Pandora Kit.

Figure 1, OSD camera setup for under carriage mounting.

1   TOP COCKPIT VIEW MOUNT CONFIGURATION:

1.1   When building Pandora for top (cockpit view) there are no special instructions needed. Simply substitute the PTP-002 tilt plate with item #9 in the Pandora kit.

1.2   To mount the camera, begin by carefully removing the two screws at the back of the camera. Next, attach the camera to the tilt plate using the two 2mm x 8mm screws found in the Pandora kit.

1.3   Route the camera's A/V cable so that it does not inhibit pan and tilt movement.

2   BOTTOM UNDER CARRIAGE MOUNT CONFIGURATION:

2.1   The bottom (under carriage) mount configuration requires minor changes to Pandora's usual assembly steps. Begin by substituting the PTP-002 tilt plate with item #9 in the Pandora kit.

2.2   As seen in Figure 2, install the Pan servo's nylon cross-arm wheel on the bottom of the chassis. This is needed to provide additional height so that the chassis does not interfere with the Pan Servo.

2.3   To mount the OSD camera, carefully remove the two screws at the back of the camera. Next, attach the camera to the tilt plate using the two 2mm x 8mm screws found in the Pandora kit.

2.4   Using sharp cutters, cut away some of item #4's cross member to allow clearance for the camera's A/V cable. Please see Figure 2 for details.

Figure 2, Cut item #4 as shown

2.5   The OSD camera's 4-conductor A/V cable is quite stiff and the molded connector is a bit bulky. So some care is needed in routing the cable so that it does not inhibit pan and tilt movement.

As an alternative method, you may wish to build a custom A/V cable using flexible 28 AWG wire and mating connectors. The connector parts required are as follows:

4-Pin Plastic Housing: Mouser.com p/n 538-51021-0400, 1 each.
Tin Crimp Pin (28AWG): Mouser.com p/n 538-50079-8000, 4 each.

When making custom cables please be sure that your construction is correct. Any mis-wired connectors will result in permanent damage to the camera and will void the warranty.