

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.



Figure 2, Cut item #4 as shown

- 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.

- 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.