PHOTOHIGHER

AV200 360°PAN KIT MR

360 Pan kit assembly instructions for the
Pro AV200 Camera Gimbal for Multirotors

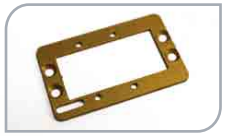
COMPONENT CHECKLIST 1.

	100-1129	AV2-AV200 PAN SERVO BRACKET	QTY	1	☐
	100-1158	AV2-AV200 PAN SHAFT	QTY	1	☐
	100-1161	AV2-AV200 PAN SKIDS	QTY	4	☐
	100-1162	AV2-AV200 SKID BASE COMMON	QTY	2	☐
	ABS-6M16M130SF6008	MXI- TIMING PULLEY 130t ID8mm	QTY	1	☐
	HOT-SC-0352	HOT-SAVOX PAN SERVO SC-0352	QTY	1	☐
	MXLS-02 Futuba	MXL- PULLEY MXL 32t Futuba	QTY	1	☐
	ABS-A 6Z16M153045	MXL- TIMING BELT 153t x 4.5mm	QTY	1	☐
	F6701 ZZ	ABS- 12x18x4mm BEARING + FLANGE	QTY	2	☐
	CS- 10-1.0MG 304N CR3	FS- M10 LOCK NUT	QTY	1	☐
	100-1021	OR- ROLL BEARING SPACER - 50.8mm	QTY	6	☐
	100-1020	OR- STANDARD SPACER - 60mm	QTY	4	☐
	CSB-BH M3X6 CS ZINC	FS- M3x6 BUTTON HEAD CS ZINC	QTY	48	☐
	LN-M3	FS- M3 LOCK NUT	QTY	32	☐
	CS-M3X6 COUNTRSINK	FS- CSK M3x6 ZINC	QTY	4	☐

	CSB-M3X10ZP	FS- BUTTON HEAD CS M3x10 ZP	QTY	4	☐
	100-1192	AV2- PAN AXES BEARING SPACER	QTY	1	☐
	100-1179	AV2-AV200 BATTERY TRAY	QTY	2	☐
	LG360GRE	DW-GEAR RAIL PLATE	QTY	2	☐
	100-1128	AV2-AV200 BOTTOM BEARING BRACKET	QTY	1	☐
	200-1219	AV2- GROMET 3.2mm / 10.3mm hole	QTY	4	☐
	200-1180	AV2-12X3.2mm NYLON WASHER	QTY	1	☐
	100-1231	WAVY WASHER	QTY	1	☐

ASSEMBLY INSTRUCTIONS 2.

STEP 1 : PAN SERVO



Affix the servo bracket to the servo using countersink screws.

IMPORTANT: First check that the 360 servo is not creeping before installation.
Plug in the servo to RX and turn it on.
If the servo creeps then try to stop it by using sub trim.
If the sub trim does not stop it you need to remove the top cover from the servo.
Lift out gear and you will see the top of the potentiometer.
Turn the shaft to find the neutral position.

STEP 2 : LANDING SKIDS

Assemble skids using 50.8mm roll bearing spacers and M3x6 buttonhead screws.

STEP 3 : LOWER BEARING BRACKET

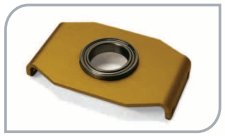
Insert the bearing into the bearing bracket, with the flange on the under side.

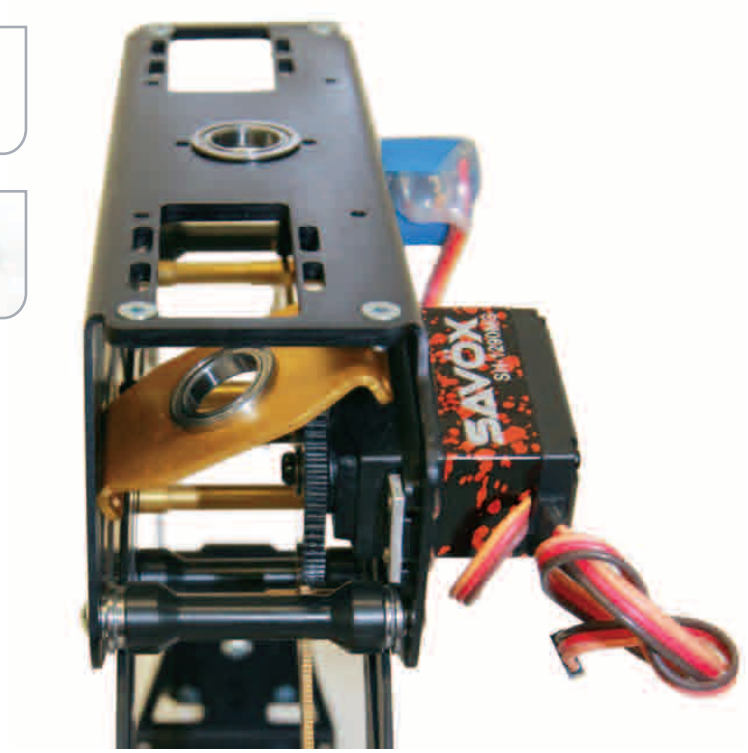
STEP 4 : BATTERY TRAY

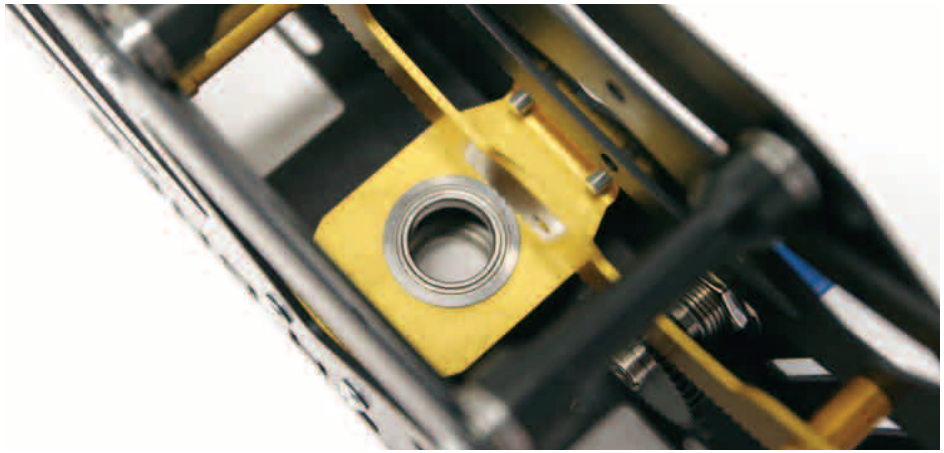
Assemble battery tray with 60mm spacers, M3x6 buttonheads rubber grommets, and the Droidworx adaptor plate.

STEP 5 : INSTALLING THE LOWER BRACKET

Slide the bracket into place and secure with M3x6 buttonhead screws.

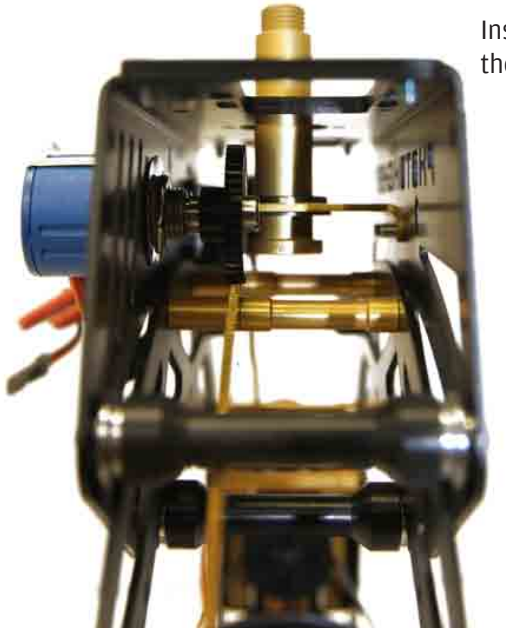






STEP 6 : INSTALLING THE PAN SHAFT

Insert the pan shaft from inside through the bearing bracket.



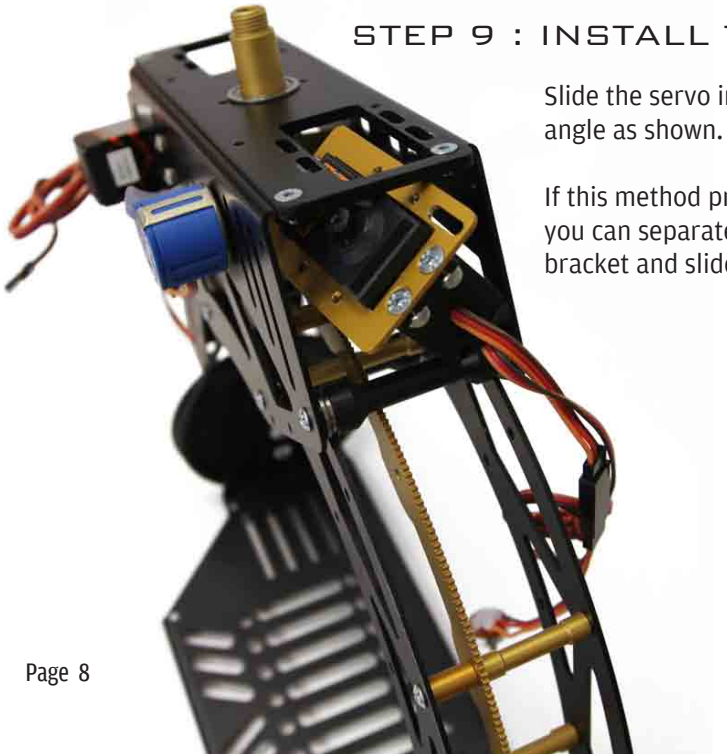
STEP 7 : PAN AXES BEARING SPACER

Slide the spacer onto the pan shaft from the top of the gimbal.

STEP 8 : BEARING PLACEMENT

Place the second bearing with flange over the pan shaft and flush with the gimbal surface.

STEP 9 : INSTALL THE SERVO



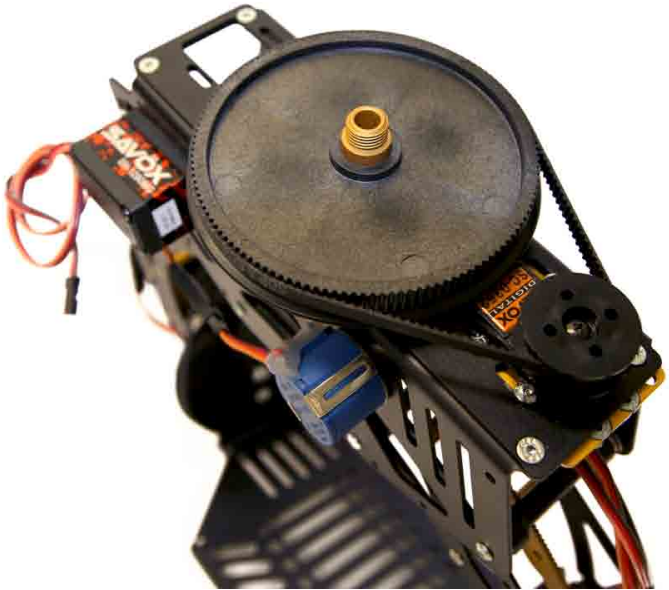
Slide the servo into the gimbal on an angle as shown.

If this method proves problematic you can separate the servo from its bracket and slide that in first.

Secure the servo in place with M3x10 screws.

STEP 10 : PULLEY ASSEMBLY

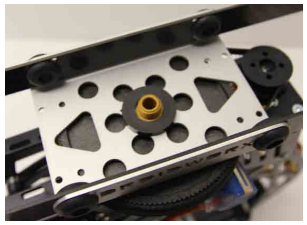
Attach the pulley, the timing belt and the timing pulley. The timing pulley should be positioned flange side down with the hub underneath.

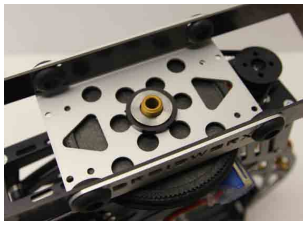


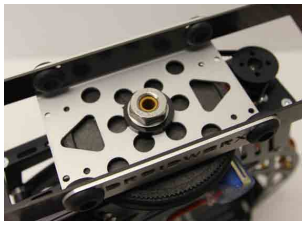
STEP 11 : BATTERY TRAY

Place the assembled battery tray on top. Fix in place with the following parts in this order:

1. Nylon Washer
2. Wavy Washer
3. M10 Lock Nut







STEP 12 : ATTACHING SKIDS

Attach the pre-assembled skids to the gimbal using M3x6 buttonhead screws. The screws should be positioned on the interior of the gimbal with the M3 lock nuts on the exterior.