



RAPTOR CLAMP™ DIVERTER INSTALLATION KIT

TRAINING GUIDE

IMPORTANT SAFETY INFORMATION

THIS DOCUMENT IS TO BE USED IN CONJUNCTION WITH THE DJI M300/M350 RAPTOR CLAMP INSTALLATION KIT PRODUCT GUIDE

Aircraft Serial Number:		Aircraft Type:	
RPIC:		Date:	

STEP	INSTALL/PREPARATION	INSTRUCTION
1	Assemble the M300/M350 in a clear area or working space following the instructions in BK3721.	
2	Begin by bolting the leg brace onto the aircraft frame. Ensure it is level prior to tightening.	
3	Attach the vertical standoff to the Clamp Carrier holder.	
4	Snap the Clamp Carriers into the Clamp Carrier holder. Screws can be used for permanent installation.	
5	Attach the motor arm mounts to the drone. (Labeled Front and Back)	
6	Install 4 landing gear guard mounts using a 2.5 mm Allen wrench. Do not overtighten.	
7	Slide carbon fiber guards into the landing gear mount and place the other end in the motor arm mount.	
8	Install two horizontal guard sections at the front and rear of the drone with spring pins.	
9	Install the Side Guards using the short guard rods and installing them into the longer assembly. Insert the end of the assembly into the holes on the guards mounted on the motors.	
10	When ready to begin the field installation, attach the Clamp Carrier assembly using the pin and the cotter key.	
11	Install the RAPTOR CLAMP Diverters by setting the triggers, then pinching on either side of the clamp and inserting into the carrier.	

STEP	PRE-FLIGHT AIRCRAFT INSPECTION (PRIOR TO OPERATION)	INSTRUCTION
1	Ensure all batteries have been fully charged before operation. This includes batteries for the aircraft, controller, display, etc.	
2	Power up the controller, then the aircraft and any other applicable devices.	
3	Confirm updated firmware on all devices.	
4	Confirm correct pairing between devices.	
5	Ensure import of RAPTOR CLAMP Diverter installation locations into the VO Controller via Litchi.	
6	Power down the aircraft, then the controller.	
STEP	PRE-LAUNCH CHECKS	INSTRUCTION
1	Batteries inserted correctly.	
2	Inspect drone for obvious defects.	
3	Props attached, tightened, locked, and checked for defects.	
4	Camera securely attached to Aircraft.	
5	Power on Controllers, then Aircraft.	
6	Open DJI Pilot on RPIC Controller and Litchi on VO Controller.	
7	Confirm there are no errors.	
8	Confirm at least 6 satellites and appropriate battery level.	
9	Set lost link to Hover in Place and turn off all Obstacle Avoidance.	
10	Confirm correct Home Point and starting altitude.	
11	Drone in safe launch and landing position.	
STEP	TAKEOFF CHECKS	INSTRUCTION
1	Check for any other aircraft / obstacles overhead.	
2	Warn bystanders of imminent takeoff.	
STEP	RAPTOR CLAMP DIVERTER INSTALLATION	INSTRUCTION
1	Begin by slowly raising the aircraft until the Clamp Carrier is off the ground by 5 feet.	
2	Ensure sufficient power for install is available.	
3	Begin slowly accelerating and climbing towards RAPTOR CLAMP Diverter install location.	
4	Allow the VO to verbally guide you to the install location via Litchi on the secondary controller.	
5	As you approach the install location, turn towards the conductor and ensure you are utilizing the Wide Camera.	
6	Slowly approach the conductor, tilting the gimbal, to keep the target location in the centered on the screen.	
7	Contact the conductor in the lower 1/3 of the dielectric vertical standoff.	
8	Tilt the gimbal down until vertical, ensuring appropriate contact.	
9	If attaching the Front RAPTOR CLAMP Diverter, begin slowly climbing. If attaching a RAPTOR CLAMP Diverter from either side of the Clamp Carrier, rotate the aircraft while maintaining contact with the conductor.	
10	As you climb, ensure contact is maintained until the RAPTOR CLAMP Diverter is triggered.	
11	Once the RAPTOR CLAMP Diverter is triggered, continue climbing until clear of conductor and all other obstacles.	
12	Repeat the process until all RAPTOR CLAMP Diverter on the Clamp Carrier have been installed.	
13	Once all RAPTOR CLAMP Diverter have been installed, return to the takeoff point.	
14	Upon beginning the landing process, slowly descend until the Clamp Carrier is lightly touching the ground.	
15	Once the Clamp Carrier is touching the ground, begin flying forward slowly while simultaneously descending slowly.	
16	The Clamp Carrier assembly will lie behind the aircraft just as it did prior to takeoff.	
17	Reload the Clamp Carrier and repeat the process.	

**IMPORTANT SAFETY INFORMATION****EMERGENCY PROCEDURES PERTAINING TO RAPTOR CLAMP DIVERTER INSTALLATION SYSTEM**

STEP	OSCILLATION	INSTRUCTION
1	In case of oscillation, clear the aircraft of all obstacles and hover until oscillation subsides.	
2	If oscillation continues, land the aircraft as soon as practical in a safe landing area.	



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