

CobraCrane 2HD & Pan Head

CC2HDPH
Installation Guide
2015



CobraCrane2HDPlus Installation Guide



The CobraCrane2HDPlus should include:

Figure 1

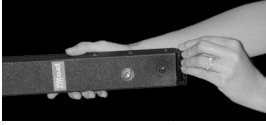
- | | | | | | |
|-----|-----------------------|-----|--------------------|-----|----------------|
| (a) | (2) 6 foot Steel bar | (d) | Tripod bracket | (g) | Handle |
| (b) | (2) 4 foot extensions | (e) | 6 Thumb screws | (h) | Camera bracket |
| (c) | Weight bracket | (f) | Wire rope w/ chain | (i) | Ankle weight |

Setup instructions

Step 1 - Mount Release Plate onto the CobraCrane2HDPlus

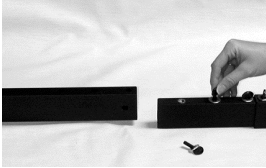
The CobraCrane2HDPlus ships with a quick release mount plate attached properly on the tripod bracket (1d). This plate works with the Bogen Manfrotto 501 and 503 series of release plates. If you have one of those fluid head systems skip to step 2.

Figure 2



The tripod bracket (1d) has multiple locations where most quick mount plates can be attached. To mount your own plate, first remove the two 3/8" bolts and remove the original plate. Then mount your plate in any two of the holes in the tripod bracket.

Figure 3



Whenever possible use as many of the larger 3/8" holes. This simply assures a better connection between the release plate and the CobraCrane2HDPlus. When replacing make sure the release is mounted so that the crane will slide onto your tripod with the thumb screws on the top.

Step 2 - Add Extension - Figure (2) (3) (4)

Remove plastic ends from both sides of the extension Figure (2).

Remove all thumb screws (1e) from the three holes of the extension

and then slide extension into ends of CobraCrane2HDPlus steel bars.

Replace the Thumb screws. Tighten carefully. Do not over-tighten.

Figure 4



Step 3 - Attach Chain Cable assembly - Figure (5)(6)

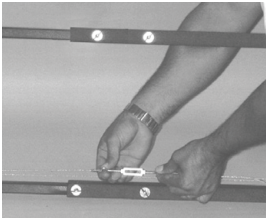
Position the Tripod Bracket as shown in upside down "U" as shown in figure 6, and the camera bracket in "U" position like figure 7.

Attach chain so that the middle of the chain goes around the sprocket.

Then tighten cable by pulling on excess wire near the gripper. The

Turnbuckle should be on the bottom, so it won't be obstructed.

Figure 5



Pluck the cable. It should sound similar to the low string of a guitar.

Step 4 - Mount on Tripod - Figure (6)

Mount the CobraCrane2HDPlus onto the tripod using the supplied release plate, or your plate.

Figure 6



Step 5 - Mount Camcorder - Figure (7)

Mount your camcorder to the camcorder bracket (1h) with the provided 1/4" camera screw. Set this end on a nearby chair or table.

Figure 7



Step 6 - Mount Weights - Figure (8)

Next you must purchase weights. Add the weights to the rear bolt, (1c) until the camcorder raises up off the table. Push the sliding weight (1i) until the CobraCrane2HDPlus is perfectly balanced. Use the washer and starnut to hold weights safely. Run the star knob against the weights to lock it on. Finally, replace the weight handle (1g) on the bolt, so you can boom the crane with the handle.

Figure 8



Optional Tripod Bracket Mounts

The CobraCrane2HDPLUS has three different places to mount the Tripod bracket giving you some flexibility in the height of the unit. The system is shipped from the factory with the Tripod Bracket mounted in the middle hole of the three mounting holes. If you need an extra 6 inches of height, you can move the Tripod Bracket back to the hole closest to the weight bar. Keep in mind, you will need additional weight to counterbalance the camera. You can also mount the Tripod Bracket in the hole closest to the camera bracket, which will lessen the weight needed and may be useful if you are shooting in a facility with a lower ceiling. To compensate for the change, move the wire clamps to either let out more cable for the taller crane or to take up the cable slack for the shorter crane option.

PH1 & PH1PLUS Installation Guide

The PH1 & PH1PLUS kit should include:



- Panhead Unit cables
- Panhead Handle.
- 2 Thumb screws in handle
- 2 Camera screws in camera release plate (1 is extra)
- 1 Wing nut w washer and screw for securing release plate

Step 1 Remove the Camera Release plate from the PanHead unit by loosening the wing nut .



Step 2 Mount Camera to Release Plate.

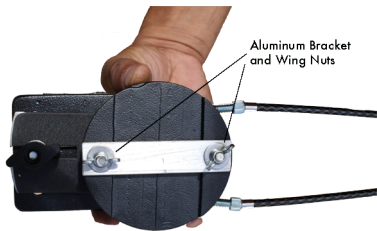
Attach the release plate to the bottom of the Camera with 1/4-20 mounting screw. For long camcorders, it is easier to balance – when the wing nut is opposite the camcorder lens.

Step 3 **** Your PanHead system is already mounted on your CobraCrane, use this step if you remove your PanHead system from the jib, skip to step four to complete the set up****

Mount the PanHead unit to the Camera bracket

Invert the camera bracket by loosening the chain cable and inverting the bracket 180 degrees. The bracket should look like an upside down "L".

On Dual Arm Cranes: Remove the aluminum bracket and two wingnuts, place PanHead Unit on top of the inverted camera bracket and secure using the aluminum bracket and the two wingnuts.



Step 4 Route your cables

Route the cables, so they do not get in the way. DO NOT loop or make tight turns with cables. They will bind and make it too hard to turn control. Make sure you check the cable routing when tilted, so there is enough slack when tilted. If you can tie wrap the cable to the middle of the crane about .5 meter above the tripod bracket. We put a loose tie-wrap loop below the tripod bracket

Step 5 Mount the Handle

Find a suitable place along the weight bar to mount the handle. You can always adjust this at any time later, or even mount it elsewhere if you desire. Place Handle over the slim part of the crane. Press it down onto the crane and tighten with the thumb screws. It will not fit flush to the crane tube.



Step 6 Mount Camera.

Slide your camera onto the fork in the PanHead unit and tighten. You want the camera in the foam on the bracket and the bracket tightly on the form, so that the camera only rotates, when you use the cable.



Operation.

Turn handle to make the camera rotate 90 degrees left and 90 degrees right of center.

CobraCrane2HDPlus Trouble Shooting

The CobraCrane mounted okay the last time I used it, now it will not fit on at all.

Rotate the tripod mounting bracket one half a revolution. The holes at the end of the crane for the extensions should be on the top of the bars when horizontal.

The Camera no longer matches the same tilt angle as my tripod head.

Loosen up the turnbuckle just a few turns. Realign by removing chain links from sprocket, locking tripod head change the position of the chain and sprocket, so that the camera bracket and tripod bracket are in the position that you want. When the camera and head are "in sync", pull the cable tight at the cable clamp and then tighten the turnbuckle a little, pluck the wire like a guitar string while tightening. Do not over tighten. The sound of the wire should not be too low or too high (about the same as a guitars lowest string). Make sure the chain in place on the sprockets.



I put in a battery or added a microphone or receiver and now the crane moves down on its own.

Add some small weights to the weight stack on the back or pull the ankle weight belt back towards the weight bracket. Whenever you add anything (or remove an accessory) you are changing the weight of the camera, thus the counterweight must be changed. Also when changing the Tripod Mount position on the bar. Keep a supply of 1.25, 2.5 and 5lb weights or purchase one of our CobraCrane Weight Bags. Optional CobraCrane Weight bag

This will allow you to be able to balance your crane wherever you are. You never want to be out on a shoot and not have the right amount of weight. We always keep the weight bag around so we can always add some rocks, or bolts or anything else. This way we always prepared for big and small batteries and anything else thrown our way.

My Craned shots do not look impressive or dramatic.

Utilize foreground objects to your advantage. Place the Crane in the middle of an open area without any foreground objects in view of the camera lens. Props or people need to be close to you. It also helps to have depth in your scene with foreground, middle ground, and background items. Study classic films for more ideas. See Youtube.com

Note: RELEASE PLATE MUST BE SECURE. When using the stock 501 or 503 sliding plate, this big crane relies on that little release plate for the connection. We like to add a 3/8" bolt to the bottom of your 501 or 503 fluid head. When inserted, this forces the release plate up and pins it against the angled holders on the 501 or 503 fluid head. This adds additional support. We always use this extra bolt. We do not want the crane to slip out of the fluid head and ruin our cameras. Be careful.

Using the CobraCrane

Still shooting - Photos

For shooting still photos, we recommend you purchase a remote monitor and shutter controller for your camera. Most CobraCrane dealers also offer remote controls for focus and shutter release. We offer a 6 or 12 foot extension cable for those purchasing wired remote controls. An optional monitor is an excellent method for remote framing of your stills before releasing the shutter. Without the remote, you will have to press your shutter button manually, which may be a challenge when the camera is at the high end of the crane's arc, plus it will cause the crane to move. Either way, Change from viewfinder to Live View so you can see the image either on your camera's LCD or on the optional external monitor. Once the desired framing is set, simply press the shutter release on the remote control to expose.

Shooting video

There are three basic moves of the CobraCrane when shooting video with your camera. These moves done in combination will meet virtually any shooting requirement. The moves are Boom, Swing and Tilt. A boom is when you change the elevation of the camera. This is done to offer shots that show vertical up and down movement. A swing, which happens when you move the crane left to right or right to left, is done to show a panoramic landscape or following talent as they move by the crane. Finally a tilt is done to tilt the camera relative to the boom.



Booming

To boom the crane, stand behind or to the side and simply lift the weight bar to lower the camera. Lower the weight bar to increase the height of the camera. If your tripod's tilt is locked or you hold the tilt handle stationary while booming, the camera will remain framed on the subject depending on how far away from the focal point the camera is. To keep exactly framed, hold the tilt handle and make minor adjustments as you are booming the crane. This move will allow you to show talent from various height perspectives. With the tilt free, so that the camera tilts with the boom, you can boom the crane and camera moves with the boom.

Some Boom moves to practice.

Boom from high to low. Station the crane so that the camera is in a high position.

Slowly raise the weight bar as you hold the tilt handle stationary. This will allow you to keep the talent in frame.

Boom from low to high.

Station the crane so that the camera is in a low position.

Slowly lower the weight bar as you hold the tilt handle stationary. This will allow you to keep the talent in frame.

**Boom from high to low.
Showing high to low**

Station the crane so that the camera is in a high position.

Loosen drag on tilt to least drag, so that it tilts with the boom movement. Raise weight bar slowly, allowing you to see talent head to toe.

**Boom from low to high.
Showing low to high**

Station the crane so that the camera is in a low position.

Loosen drag on tilt to least drag, so that it tilts with the boom movement. Lower weight bar slowly, allowing you to see talent toe to head.

**Boom with low perspective
Showing how big**

Station the crane so that the camera is in a low position

Position camera very close to talents legs, Tilt camera, pointing up lower the weight bar slowly, keeping camera tilted up

**Boom High to Low
See a coin, pick it up**

Station the crane so that the camera is in a high position.

Set camera angle for almost straight ahead,

Tilt camera down framing coin in center of camera

Slowly raise the weight bar, keeping the coin in center of the frame

Swinging

A Swing move is used to get a Panoramic shot, ideal for an opening or title sequence. Also used to follow talent as they go by. Swinging the CobraCrane is very simple. Loosen the Panning drag on your tripod, and then simply move the weight bar left to right, or right to left.



Here are some swinging moves to practice:

- Panoramic Swing** Station Crane so that the arms are parallel to the ground
Swing right to left (or left to right). Initially point camera all the way to end of the image
- Dogs point of view** Boom the camera low. Tilt camera up. Now perform swing move
- Periscope** Boom the camera high. Tilt camera down, slowly swing crane

NOTE: Be careful of hitting the tripod with the weights or end of crane. Practice!!

Slider Move

Set camera out of frame to the left or right of the subject. Lock tripod head tilt, loosen pan. Very slowly swing the crane bringing subject into frame and then continue until subject drops back out of frame. Slow and steady. Practice this shot shooting names on signs.

Tilting: Dynamic Tilting

Tilting the camera relative to the Boom offers some interesting shots. Usually used in combination with other moves, Tilting can also be used on its own. Loosen the tilt drag on your tripod head. To tilt the camera, hold the weight bar in one hand and tilt the Pan/tilt handle on the tripod with the other hand. This allows you to change the tilt without changing the boom.



Shoot from above Station the crane so that the arms are parallel to the ground. While holding the weight bar, push the pan/tilt handle up, this will tilt the camera down. This move allows you to shoot something like a face, then Slowly tilt down, showing the rest of the body

Tilt up from below

Station the crane so that the camera is low to ground pointing forward. While holding the weight bar, push the pan/tilt handle down. This will tilt the camera up. This move allows you to shoot something like a shoe, then slowly tilt up, showing the rest of the body. Ideal for showing how big something is, like a tree.

Tilting straight down

Position crane about 45 degree angle. Point camera down. This allows you to get shots from above. For example, looking in the moon roof of a car. Showing food or products from above shooting straight down. This is one of the best methods to get the top down shot of a wedding cake.

Tilting: Static Tilting

Used to keep camera pointed at the subject (or in any angle), while booming the crane. Lock down the Tilt Drag control by tightening down the tilt drag control of the Tripod. Now Boom. While the drag is locked down, the camera will stay pointed in the same direction, throughout the arc of the Boom.



Practice makes perfect. Use a combination of these moves to create beautiful cinematic content of your own. Watch cool movies and TV shows to see how some of the experts do these moves and then adjust to your liking.

Have fun – and be creative.

The SteadyTracker Company

Orange County, California

www.CobraCrane.com

Getting Started

The SteadyTracker is shipped from the factory in the most appropriate packaging available. Please inspect the contents of the package and make sure to call or email us directly if there is any shipping damage or missing components. We can be reached at 949-322-4226 or in Pacific Rim at (63) 915-790-6518. Our email is info@steadytracker.com. Please store all original containers. The SteadyTracker Company will not take responsibility for any products shipped to us without original shipping material. Please make sure to keep the packaging safe for future use.

The Conditions of The Warranty are as Follows:

The SteadyTracker Company reserves the right to determine if a repair is subject to the warranty agreement. Damage caused by products being dropped or mishandled is not covered by the warranty. Suitable packaging may be purchased from The SteadyTracker Company at a nominal cost. All products are to be shipped prepaid to The SteadyTracker Company. For insurance reasons, The SteadyTracker Company cannot accept any product that is returned via the U.S. Postal Service. Returns will be accepted from UPS, Federal Express, or a comparable freight carrier. The SteadyTracker Company will return the repaired product via a like carrier, in the continental United States, only if the product is under warranty and subsequently found to be faulty. Out-of-warranty repaired products are shipped at the customer's expense. Turnaround time for warranty repairs will not exceed 4 days (not including shipping time), unless extraordinary fault conditions exist. For our international customers, please coordinate with your dealer for repairs.

Limited Warranty:

Labor and defects are covered for one (1) year from the original date of purchase. Only the original purchaser of the product is covered under this warranty. The warranty is not transferable. If you discover a defect, please refer to our Return Merchandise Authority Policy. The Warranty covers all SteadyTracker hardware defective in materials or workmanship. During this warranty period, The SteadyTracker Company, at its option, will repair or replace product or product components, which in its opinion prove defective. Parts and components used in the repair process may be recycled or repaired, at The SteadyTracker Company's discretion. This warranty service will be performed at no charge to the registered owner, provided the product is shipped prepaid to The SteadyTracker Company in the original packaging. The SteadyTracker Company reserves the right to determine whether a needed repair is subject to the warranty as per its provisions stated herein. Transit damage caused by inadequate packing invalidates this warranty. This warranty will be void if, in the opinion of The SteadyTracker Company, the product in question has been damaged through accident, misuse, misapplication, or as a result of service or modification performed not authorized in writing by The SteadyTracker Company.

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