



GLIDECAM

CAMCRANE 200



MANUAL

Set-up and Operations Guide

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Customer Service Line 1-781-585-7900

Manufactured in the U.S.A.

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#1 INTRODUCTION

Congratulations on your purchase of a Glidecam CAMCRANE 200.

The CAMCRANE 200 is a tripod mounted, boom-arm, camera crane system designed to allow you to smoothly move your camera up, down and all around. With the CAMCRANE 200 you will be able to shoot precise and fluid shots, just like the camera moves being shot by professionals in Hollywood today.

The CAMCRANE 200 is made of rugged, lightweight T6 aircraft aluminum. The system is very versatile. You can arrange the BOOM ARMS in four different lengths, and there are three different fulcrum (balance) settings. You can hold cameras up to 25 pounds at the boom length of 8 feet, and 30 pound cameras at the six and a half foot boom length. You can vertically boom your camera from the floor to 10 feet high, using the 8 foot boom length. The whole crane can rotate 360 degrees. The crane mounts on the 3/8" STANDARD BOLT found on your MEDIUM DUTY TRIPOD, (i.e. Bogen 3061) or you can mount it to other various surfaces like the top of a wood platform rigged to the top of a VAN, etc.

The CAMCRANE 200 comes with a HEAD UNIT which allows for quick and easy HORIZONTAL BALANCING of your camera on the crane. The HEAD UNIT can be set up in both a HIGH or a LOW MODE. You can operate the crane from either the HEAD UNIT, or the WEIGHT UNIT. The crane can easily be transported to a location shoot by fitting it into your car's trunk at only 3 feet, 3 inches long. With the FINE TUNING WEIGHTS included and your own readily purchased BARBELL WEIGHTS you'll soon have the CAMCRANE 200 up and running.

The CAMCRANE 200 requires practice and understanding to achieve professional looking results. WE HIGHLY RECOMMEND THAT THE USER READ THIS MANUAL THOROUGHLY BEFORE SETTING UP AND OPERATING THE CAMCRANE 200. Doing so will save you time, and will minimize the risk of injury to someone, or damage to your camera or the CAMCRANE 200. It is important to perform and follow the SET-UP and OPERATION'S PROCEDURES in the proper sequence, so as to avoid both frustration and a possible accident.

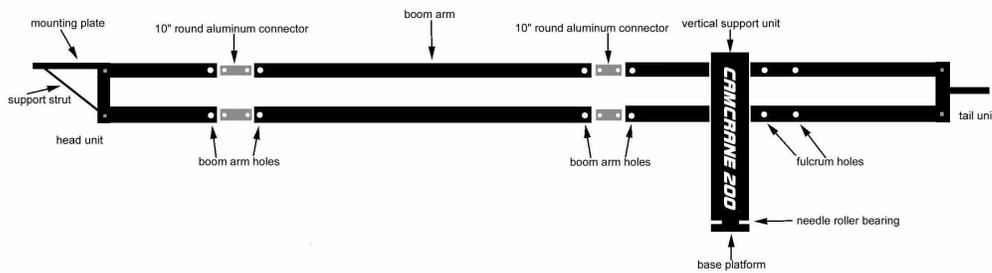
If you have need of any technical assistance, you can call our **Technical Support Line** at 1-781-585-7900, Monday through Friday between the hours of 9:00 am and 5:00 pm, Eastern Time.

We're sure that once you have your Glidecam CAMCRANE 200 up and running, you will find years of enjoyment with it.

WARNING: PLEASE READ. The entire CAMCRANE 200 system is built and designed around the principles of BALANCE. You must take GREAT CAUTION to always keep the system in BALANCE while setting up and operating the CAMCRANE 200. Since most of the assembly and operation of the CAMCRANE 200 is intuitive, many users will probably not read this manual thoroughly. If you are an experienced camera operator or crane operator then not reading the instructions fully is understandable, however we do not condone the use of the CAMCRANE 200 without first reading the manual completely.

AGAIN, IT IS EXTREMELY IMPORTANT THAT YOU READ THE MANUAL COMPLETELY BEFORE USING THE CAMCRANE 200.

Glidecam CamCrane 200 - Quick set up guide
Please read manual for proper set up and operation



****When connecting the Booms together use the 10" round connectors(not painted.) Remove the bronze bearings from the boom arm holes & slide the 10" round connectors into the booms until the two holes line up. If needed flip the booms over to get better hole alignment. Attach the booms together using the 3/8 x 2 1/4 bolts. You might need to use a rubber hammer to install or remove bolts. Tighten 3/8 nut onto bolt after installing washers. NOTE: Both fulcrum booms must be at the back of the completely assembled boom arms.****

****User must remove bronze bearings from the boom arm holes in the boom arm before inserting the 3/8" x 2 1/4 bolt****

****remove tripod head from tripod to expose 3/8" stud****

Hardware List CAMCRANE 200

- 16) 1/4" washers
- 20) 3/8" washers
- 12) bronze bearings
- 8) 3/8" x 16 x 2 1/4" bolts
- 8) 3/8" Lock Nuts
- 8) Counter weight discs
- 6) 1/4" x 20 x 2 1/2" bolts
- 6) 1/4" Lock Nuts
- 1) 1/4" x 1/2" bolt
- 1) 3/8" x 1/2" bolt
- 1) Shaft collar
- 1) allen wrench

#2 ASSEMBLING YOUR CAMCRANE 200

Do not attach your CAMERA to the CAMCRANE 200 until the CAMCRANE 200 is fully assembled.

Remember to allow for plenty of room around the CAMCRANE 200, so that you'll have plenty of space to work in as you put the CRANE together. Also remember that plenty of room is required when operating the CAMCRANE 200. If you don't allow for enough space now the CRANE might easily bang into something when you BOOM it or ROTATE it.

You will need to purchase some common BARBELL WEIGHTS in order to use the CAMCRANE 200 properly. You can purchase BARBELL WEIGHTS at most Department and Sporting Goods stores. To determine how much BARBELL WEIGHT you will need to use with your CAMCRANE 200, you will have to find out how much your CAMERA WEIGHS by actually WEIGHING your CAMERA, or by looking up your CAMERA'S WEIGHT in its MANUAL. (Don't forget to figure in the weight of the camera's battery etc.) If you are going to use your TRIPOD HEAD with your CAMERA, then WEIGH both of them, or calculate their combined WEIGHT using their MANUALS.

Once you know the WEIGHT of your CAMERA, or combined WEIGHT of your CAMERA AND TRIPOD HEAD, you can take this amount and times it by 3. The answer to this multiplication gives you the WEIGHT you will need, plus some extra WEIGHT so you wont need to go back to the store and buy more WEIGHTS. Here is an EXAMPLE. Say your CAMERA WEIGHS 10 pounds, multiplying 10 by 3 gives you 30 POUNDS. So now you would need to purchase 30 POUNDS of BARBELL WEIGHTS. Now the best way to purchase these BARBELL WEIGHTS, is to buy two 10 POUND disks, one 5 POUND disk, one 2.5 POUND disk, and two 1.25 POUND disks. Purchasing your BARBELL WEIGHTS like this will allow you to vary the amount of WEIGHT you use on the CAMCRANE 200 in the most effective way.

SETTING UP YOUR MEDIUM OR HEAVY DUTY TRIPOD.

When you first set-up your MEDIUM OR HEAVY DUTY TRIPOD. (i.e. Bogen 3061) (light duty tripods will not be able to hold the weight of the combined fully set-up crane), set it in its lowest position or at the position which will cause its LEGS to be at their shortest, non-expanded position, because it will be easier and safer for you to set up the CAMCRANE 200 in this position.

However, once you have experience in using and setting up the CAMCRANE 200, you can raise the HEIGHT of your TRIPOD, as long as you follow the instructions listed below.

If you wish to use the CAMCRANE 200 on your MEDIUM DUTY TRIPOD with the TRIPOD LEGS in an expanded position or with the TRIPOD LEGS fully expanded, such as when you require great shot height, you will need to attach three to six HOSE CLAMPS onto the TRIPOD LEGS. Attach the HOSE CLAMPS onto the TRIPOD LEGS at the points just below the UPPER LEGS. The reason for attaching the CLAMPS at this point is to stop the LEGS from sliding closed when the WEIGHT of the assembled and counterbalanced CAMCRANE 200 pushes down on the LEGS of your TRIPOD. If you do not use the CLAMPS the WEIGHT of the CAMCRANE 200 will cause your TRIPOD to collapse downward into its expanding LEGS. And if this happens the whole unit could fall over, so REMEMBER TO USE HOSE CLAMPS WHEN USING YOUR TRIPOD IN POSITIONS THAT REQUIRE YOU TO EXPAND OR EXTEND ITS LEGS.

NOTE: If your TRIPOD LEGS only have one set of EXTENDIBLE LEGS, then you'll only need THREE HOSE CLAMPS. If your TRIPOD LEGS have two sets of EXTENDABLE LEGS, then you'll need SIX HOSE CLAMPS.

ATTACHING THE CAMCRANE 200's VERTICAL SUPPORT UNIT TO YOUR TRIPOD.

After you have set-up your TRIPOD as described above, you can attach the CAMCRANE'S VERTICAL SUPPORT UNIT to the top of your MEDIUM DUTY TRIPOD. To do this you must remove your TRIPOD'S PAN AND TILT HEAD. You must remove the TRIPOD HEAD from your tripod, because you cannot attach the CAMCRANE 200 directly to your tripod head, for it will not be able to take the WEIGHT of the fully set-up CRANE.

If you do not know how to remove the TRIPOD HEAD from your tripod, then review your tripod's manual for instructions on how to remove it. If your TRIPOD HEAD is permanently attached to your tripod, then you will need to use a tripod that comes with a REMOVABLE HEAD,(i.e. Bogen 3061) or attach your CAMCRANE 200 to some other very stable and suitable device or surface.

Attaching the VERTICAL SUPPORT UNIT'S BASE PLATFORM to the top of your TRIPOD requires that you rotate it onto the STANDARD 3/8 INCH BOLT that your tripod's TRIPOD HEAD is usually attached to. Locate the THREADED STEEL INSERT that is in the bottom of the BASE PLATFORM and align this up with the 3/8 INCH BOLT on your TRIPOD and then screw the BASE PLATFORM onto the top of your TRIPOD. Make sure the BASE PLATFORM is on your tripod tightly.

Once attached to your TRIPOD, the VERTICAL SUPPORT UNIT should not be used in any position other than strictly VERTICAL. (Use a CARPENTER'S LEVEL if your tripod doesn't have a bubble level on it.)

NOTE: NEVER USE THE VERTICAL SUPPORT UNIT IN ANY POSITION OTHER THAN STRICTLY VERTICAL, for doing so now, or later when there are camera and weights attached to the system, can and will cause IMBALANCE in the system which could break the whole CRANE off your MEDIUM DUTY TRIPOD and cause either injury, damage or both. REMEMBER everything is balanced onto one 3/8 INCH BOLT, so IMBALANCE could cause the BOLT to break off.

ATTACHING THE BOOM ARMS TO THE VERTICAL SUPPORT UNIT.

The CAMCRANE 200 is designed to always have about twice as much BOOM LENGTH in front of the VERTICAL SUPPORT UNIT compared to the amount of BOOM LENGTH behind, and the system will take approximately twice as much weight on the back end of the crane, given how much weight is on the front end of the crane. This can be expressed as a 2 to 1, WEIGHT TO CAMERA RATIO. But remember if your camera weighs 10 pounds you'll need more than 20 pounds on the back end, because it always takes a certain amount of back weight just to balance out the weight of the FRONT BOOM ARMS alone. In other words, the FRONT BOOM ARMS weigh more than the back, so you'll have to take this into consideration.

First determine which BOOM LENGTH you want to use on your CAMCRANE 200. This will be either 3' 3", 4' 10", 6' 6", or 8' 1". You can hold a CAMERA, or a CAMERA and TRIPOD HEAD COMBINATION weighing up to 25 POUNDS at the BOOM LENGTH of 8' 1", and you can hold a CAMERA, or a CAMERA and TRIPOD HEAD COMBINATION weighing up to 30 POUNDS at the BOOM LENGTH of 6' 6".

You can achieve these different BOOM LENGTHS by varying which BOOM PIECES you connect together and in which order. Included with your CAMCRANE 200 are TWO 19 1/2" BOOMS and FOUR 3' 3" BOOMS. TWO of these 3' 3" BOOMS are made to be used as FULCRUM POINT (BALANCE) BOOMS. These are the TWO 3' 3" BOOMS with the most HOLES on their sides.

All the different BOOM LENGTHS listed above require that the FULCRUM POINT BOOMS be arranged so they are always CORRECTLY attached to the VERTICAL SUPPORT UNIT. "CORRECTLY" attached means that for each BOOM LENGTH there is a different corresponding FULCRUM POINT. When using a BOOM LENGTH of 8' 1", the CORRECT FULCRUM POINT to use on the FULCRUM BOOM is located at either 32 and a 1/2" in from one of the FULCRUM BOOM ends, or at 6 and a 1/2" in from the other.

When using a BOOM LENGTH of 6' 6", the CORRECT FULCRUM POINT to use on the FULCRUM BOOM is located at either 26" in from one of the FULCRUM BOOM ends, or at 13" in from the other.

When using a BOOM LENGTH of 4' 10", the CORRECT FULCRUM POINT to use on the FULCRUM BOOM is located in the MIDDLE of the FULCRUM BOOM or at 19 and a 1/2" in from one of the FULCRUM BOOM ends.

When using a BOOM LENGTH of 3' 3", (which is equivalent to using the FULCRUM BOOMS all by themselves) the CORRECT FULCRUM POINT to use is located at either 26" in from one of the FULCRUM BOOM ends, or at 13" in from the other.

NOTE: All of the above BOOM LENGTHS and corresponding FULCRUM POINTS are for use with the CAMCRANE 200 SYSTEM set with a 2 to 1, WEIGHT to CAMERA RATIO. Other FULCRUM POINTS may be used, and conversely different WEIGHT to CAMERA RATIOS obtained, but we do not recommend this practice. Again, the system is designed for a 2 to 1 WEIGHT to CAMERA RATIO.

When connecting the booms together use the 10" round connectors (not painted.) Remove the bronze bearings from the boom arm holes & slide the 10" round connectors into the booms until the two holes line up. If needed, flip the booms over to get better hole alignment. Attach the booms together using the 3/8 x 2 1/4" bolts. You might need to use a rubber hammer to install or remove bolts. Tighten 3/8 nut onto bolt after installing washers.

NOTE: Both fulcrum booms must be at the back of the completely assembled boom arms.

Now insert the FLANGED BRONZE BEARINGS provided into the appropriate 3/8" FULCRUM POINT HOLES on the FULCRUM BOOMS, and insert BRONZE BEARINGS into the front and back 3/8" HOLES in the BOOMS. (These front and back BEARINGS are to be used later when you attach the HEAD and WEIGHT UNITS to the BOOMS.) Remember the BRONZE BEARINGS are inserted into the BOOMS, not the VERTICAL SUPPORT UNIT.

Before you insert and connect the BOOMS into the VERTICAL SUPPORT UNIT, you must select which "CORRECT" FULCRUM POINT will be set at the VERTICAL SUPPORT UNIT'S PIVOT POINTS. (REFER TO FULCRUM POINT INFORMATION LISTED ABOVE.) Next place a 1/4" WASHER onto each of the TWO 2" x 1/2" BOLTS, then align the CORRECT FULCRUM HOLES of the FULCRUM BOOM with the SUPPORT UNIT'S PIVOT POINTS. Remember to always attach the BOTTOM BOOM to the SUPPORT UNIT first. Then, insert the 2" x 1/2" BOLTS into the OUTER HOLES in the VERTICAL SUPPORT UNIT, sliding them all the way through the SUPPORT UNIT and the BOOM ARMS as you hold the BOOM ARMS in place.

Now place 1/4" WASHERS, one each, onto the end of the 2" x 1/2" BOLTS and then tighten onto each end of the BOLTS, TWO 1/4" NUTS. You can tighten the TWO 1/4" NUTS against each other so they won't come loose. Also, when tightening the NUTS onto the BOLTS that connect the BOOM ARMS to the VERTICAL SUPPORT UNIT, remember that they should be loose enough to allow the BOOM ARMS to move up and down freely. If you tighten the NUTS too hard it will inhibit the movement of the BOOM ARMS.

CONNECTING THE HEAD AND WEIGHT UNITS TO THE BOOM ARMS.

Since the FRONT BOOM ARMS are longer and heavier than the BACK BOOM ARMS, it is best to angle and lay the FRONT ARMS onto the floor or onto a chair. With the crane sitting in this position, it is easier to first attach the HEAD UNIT to the long end of the BOOM ARMS, and then secondly attach the WEIGHT UNIT to the short end of the BOOM ARMS. This is done in very much the same way as attaching the BOOM ARMS to the VERTICAL SUPPORT UNIT. Use the 2" x 1/2" BOLTS for the HEAD UNIT and the 2" x 1/2" BOLTS for the WEIGHT UNIT.

Also, when attaching the HEAD UNIT to the front of the long BOOM ARMS, you will want to decide if you want to have the HEAD UNIT in the HIGH MODE or LOW MODE. The HIGH MODE sets the MOUNTING PLATE of the HEAD UNIT in the upper most position, and the LOW MODE sets the MOUNTING PLATE of the HEAD UNIT so it would be resting on the floor given you boomed the arm all the way down. The HIGH MODE gives you the most camera and tripod head clearance, for PANNING and TILTING etc, while the LOW MODE gives you the ability to create shots where the camera lens will be very close to the floor at the beginning or end of a shot. In order to use the CAMCRANE 200 in LOW MODE you must remove the support strut that is bolted to the MOUNTING PLATE.

When tightening the NUTS onto the BOLTS that hold the HEAD UNIT and WEIGHT UNIT onto the BOOM ARMS, remember that they should be loose enough to allow the BOOM ARMS to move up and down freely. If you tighten the NUTS too hard it will inhibit the movement of the BOOM ARMS. And remember you can tighten the TWO 1/4" NUTS against each other so they wont come loose.

BALANCING YOUR CAMCRANE 200 WITHOUT A CAMERA ON IT.

DO NOT ATTACH YOUR CAMERA OR ANY WEIGHTS TO THE CAMCRANE 200 YET.

NOTE: At this point the system will be out of balance because there is no camera or WEIGHTS attached to the crane. The Crane will be front heavy because the system is designed to always have about twice as much boom length in front of the VERTICAL SUPPORT UNIT compared to the amount of boom length behind. And since the FRONT BOOM weighs the most, we recommend that you rest it and the HEAD UNIT on the floor or onto a stable chair etc.

NOTE: NEVER PUSH OR PULL THE BOOM ARMS IN A WAY THAT WOULD CAUSE THE VERTICAL SUPPORT UNIT TO MOVE AWAY FROM ITS UPRIGHT AND VERTICAL POSITION. Doing so now, or later when there are camera and weights attached could break the whole crane off your MEDIUM DUTY TRIPOD and cause either injury, damage or both.

To balance your CAMCRANE 200 start by adding WEIGHTS to the BACK WEIGHT UNIT until the front of the BOOM ARM rises slightly up off the floor or chair. (Use the FINE TUNING WEIGHTS provided if necessary.) Hold onto the back of the BOOM ARM when doing this in case you have to stop the arm from rising quickly which could come about if you have added too much WEIGHT.

If all goes well, you should be able to quickly balance the crane so that the FRONT BOOM is basically acting like it is weightless. Given this, it should float about when you give it a gentle nudge etc. (You should lock the WEIGHTS into place, using the 1 1/16" inner diameter LOCKING COLLAR and HEX HEAD KEY provided, so the WEIGHTS can't accidentally fall off the WEIGHT UNIT causing the BOOM ARM to come crashing down on the floor.)

With the CAMCRANE 200 balanced as described above, you can now experiment with the crane. Try booming all the way up and down, and try rotating the whole crane around on its BASE PLATFORM. Doing this should give you a good feel for how the CAMCRANE 200 acts and works. REMEMBER TO ALLOW FOR PLENTY OF ROOM AROUND THE CAMCRANE, SO IT WON'T BANG INTO ANYTHING WHEN YOU BOOM IT OR ROTATE IT.

ATTACHING YOUR CAMERA OR CAMERA AND TRIPOD HEAD TO THE CAMCRANE 200.

To attach your CAMERA or TRIPOD HEAD onto the HEAD UNIT of the CAMCRANE 200, place the CRANE'S HEAD UNIT onto the floor or chair etc, and attach your CAMERA or TRIPOD HEAD to the CRANE'S HEAD UNIT by BOLTING it in place.

Depending on what type of CAMERA you have, you'll either need the 1/2" LONG x 1/4" BOLT or the 1/2" LONG x 3/8" BOLT. If your going to attach your TRIPOD HEAD to the CAMCRANE 200's HEAD UNIT, then you'll need to use the 3/8" BOLT. WASHERS are provided for both BOLTS in case you need them for spacers, because the THREADED SOCKET at the base of your CAMERA or TRIPOD HEAD might not be deep enough to accept the entire length of the 1/2" BOLTS.

There are SLOTS provided in the MOUNTING PLATE of the HEAD UNIT so you can slide your CAMERA or TRIPOD HEAD from side to side in order to BALANCE the CENTER OF GRAVITY of your CAMERA or TRIPOD HEAD with the relative center of the BOOM ARMS. If BALANCED correctly, the UPPER and LOWER BOOM ARMS will not encounter any TWISTING FORCE. If you look at the UPPER and LOWER BOOM ARMS from the front of the CRANE, the ARMS should appear in VERTICAL ALIGNMENT given the HEAD UNIT is correctly BALANCED. Also, it is best to attach your CAMERA to your TRIPOD HEAD after you have attached the TRIPOD HEAD to the CRANE'S HEAD UNIT.

NOTE: When you mount your CAMERA or TRIPOD HEAD onto the HEAD UNIT, you should realize that the farther you MOUNT your CAMERA away from the FULCRUM POINTS of the CRANE the more WEIGHT will be required for COUNTER BALANCE on the WEIGHT UNIT.

BALANCING THE CAMCRANE 200 WITH A CAMERA OR CAMERA/TRIPOD HEAD ON IT.

After you have attached your CAMERA or CAMERA and TRIPOD HEAD COMBINATION to the HEAD UNIT of your CAMCRANE 200, you can then add WEIGHTS to the WEIGHT UNIT to bring the SYSTEM into correct BALANCE.

To BALANCE your CAMCRANE 200 start by adding your HEAVIEST WEIGHTS to the WEIGHT UNIT first, and your LIGHTEST WEIGHTS last. Add just enough WEIGHT(S) to cause the front of the BOOM ARMS to rise slightly up off the floor or chair. Hold onto the back of the BOOM ARM when doing this in case you have to stop the BOOM ARMS from rising quickly, which could come about if you have added too much WEIGHT.

If you have added too much WEIGHT then take some WEIGHT off. You will probably have to use some of the FINE TUNING WEIGHTS provided to get the BALANCE just right. You might even have to take into account the WEIGHT of the WEIGHT UNIT'S LOCKING COLLAR when you adjust for FINE BALANCE.

If BALANCED correctly, the whole CRANE will be HEAVY, yet the BOOM ARM will basically act like it is WEIGHTLESS. Given this, the BOOM ARM should float about when you move it gently. REMEMBER to lock the WEIGHTS into place, using the 1 1/16" inner diameter LOCKING COLLAR and HEX HEAD KEY provided, so the WEIGHTS can't accidentally fall off the WEIGHT UNIT causing the BOOM ARM to come crashing down on the floor.

Remember it's your CAMERA up there, so be extra careful when assembling, operating and moving your CAMCRANE 200.

#2 OPERATING YOUR CAMCRANE 200

Given that the CAMCRANE 200 is BALANCED correctly as described above, you should find it very easy to move the CRANE'S BOOM up and down, and you should find it easy to ROTATE the whole CRANE around on its BASE PLATFORM, which incorporate needle roller bearings for extremely smooth rotation. If you are shooting scenes that require exacting CAMERA moves, then make sure you practice and rehearse the moves ahead of time. Try shooting the scene several times so later in editing you will be able to use the best CRANE shot.

If you need to keep the BOOM ARMS set at a certain height while rotating the CRANE, you can tighten the BOLTS and NUTS on the VERTICAL SUPPORT UNIT. This will increase friction at the FULCRUM POINTS, giving the effect of lightly locking the BOOM ARMS in the position you set them at. Once you get used to how the BALANCE on the CAMCRANE 200 works you can try using a BOOMING TECHNIQUE in which you put just a little more WEIGHT on the WEIGHT UNIT than required, causing the BOOM to automatically

BOOM UP without you having to force it. And conversely, you can try using just a little less WEIGHT on the WEIGHT UNIT than required, causing the BOOM to lower itself automatically.

NOTE: During this type of automatic BOOMING always have hold of the BOOM ARMS so you can stop the BOOM if you need too. NEVER PUSH OR PULL THE BOOM ARMS IN A WAY THAT WOULD CAUSE THE VERTICAL SUPPORT UNIT TO MOVE AWAY FROM ITS UPRIGHT AND VERTICAL POSITION. Doing so when there are camera and weights attached could break the whole crane off your MEDIUM DUTY TRIPOD and cause either injury, damage or both.

#10 OTHER CAMERA ATTACHMENT METHODS

Creating a gasket: If when attaching your camera to the HEAD PLATE you find that the bottom of your camera isn't flat enough to allow for a good solid attachment, try making and adding a paper/cloth or rubber gasket to the HEAD PLATE. (Try using a piece of a rubber dishwashing glove.) Simply cut the material to the size of the top of the HEAD PLATE and then create a hole in it to allow the CAMERA MOUNTING BOLT to fit through it and into the base of your Camcorder.

#11 PROFESSIONAL USAGE

If you are using the Glidecam CAMCRANE 200 to shoot professional looking shots, and you plan on incorporating them into a short movie or some sort of commercial project, we suggest that you plan the shot out in advance, perhaps rehearse the move a few times before shooting, and that you use an assistant to help you during complex shots. This will give you optimum results and will make your movies look more professional.

Good luck with your shooting.

#13 WARNINGS

Storage - If you are going to store your Glidecam CAMCRANE 200 for a long period of time then please store the unit upright in a dry or low to normal humidity area whenever possible. If you are unable to find an environment like this, then we suggest you store the unit in an air tight plastic container or bag. Standing the unit upright helps to alleviate stress on the system.

Cleaning - Do not use solvents or harsh cleaners of any kind on your Glidecam CAMCRANE 200. If the unit becomes dirty, use only a cloth or sponge with water to gently rub the unit clean.

#14 WARRANTY

For 1 year from the date of shipment, we will repair or replace your Glidecam CAMCRANE 200, free of charge, in the event of a defect in materials or workmanship (the shipment date appears on your purchase receipt) which occurs during normal use in accordance with the Glidecam CAMCRANE 200's instruction manual. Shipping, packing, and insurance costs to and from the factory are your responsibility. This limited warranty extends only to the original purchaser, and you will need your purchase receipt. This warranty does not cover, by way of example, damage caused by products not supplied by us or damage resulting from mishandling in transit, accident, misuse, vandalism, neglect, modification, lack of reasonable care (or commercial use, including rentals to others) of the Glidecam CAMCRANE 200 or service by anyone other than us. There are no express warranties except as listed above. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WE ARE NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE UNIT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD.

To obtain service during (or after) the warranty period: Contact **Glidecam Industries' Customer Service** Department by calling **1-781-585-7900** or write to us at: **23 Joseph Street, Kingston, MA 02364** and explain the problem.

DO NOT SEND THE UNIT TO US WITHOUT FIRST OBTAINING A RETURN AUTHORIZATION NUMBER.

GLIDECAM INDUSTRIES, INC.

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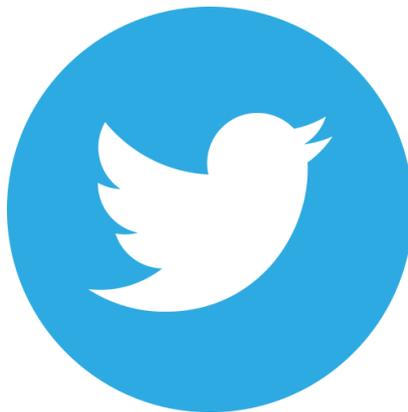
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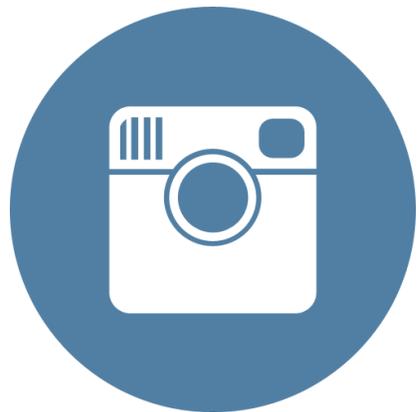
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