

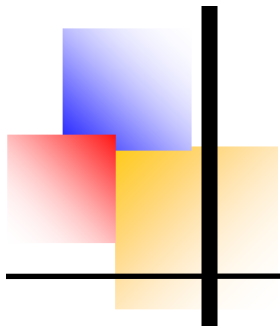
Serving film, broadcast and video production industries.

Piccolo Crane Instruction Manual



Walter Lighting & Grip Inc.
905 McCaffrey
Saint-Laurent, Quebec
H4T 1N3
Canada
Tel: 514.345.1111
Fax: 514.345.0550
www.WLGTV.com
info@wallyvision.com

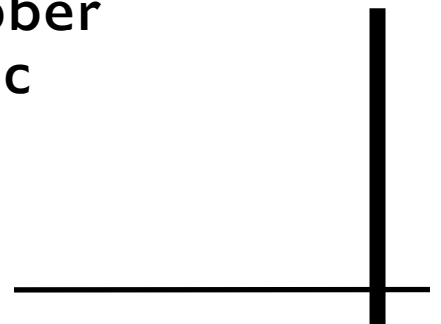




Serving film, broadcast and video production industries.

Piccolo Crane Specifications

Type:	Piccolo Platform Dolly
Arm Reach:	245 cm / 8.0 ft
Operational Length:	460 cm / 15.1 ft
Maximum Height:	260 cm / 8.5ft
Minimum Height:	10 cm / 0.3 ft
Maximum Load:	250 kg. / 551.2 lbs.
Dolly Length:	114 cm / 3.7 ft
Dolly Width:	93 cm / 3.1 ft
Dolly Height:	90 cm / 3.0 ft
Dolly Weight:	96 kg. / 211.6 lbs.
Type of Wheels:	Hard Rubber Pneumatic Track





INSTRUCTIONS FOR THE ASSEMBLY, USE AND OPERATION OF THE "PICCOLO CRANE"

Introduction

The crane arm requires equal weights at its photography terminal and its opposite or companion counterbalance weight terminal to provide EQUIPMENT with both its stability and the control of its vertical movements. Simply stated, it is a more sophisticated form of seesaw designed and engineered for the exclusive use of the studio professional!

As with every seesaw, caution must be exercised, and each movement must be so seasoned, as to eliminate any catapulting effect likely to result upon the addition or reduction of weight at either terminal without the concurrent compensating measures to prevent the downward or upward movement of the other terminal.

To assist PURCHASER and PURCHASER's authorized operators and users, EQUIPMENT has prepared the detailed guidelines prescribed in the Instructions which follow the Warranty. FAILURE TO COMPLY WITH THESE INSTRUCTIONS, OR ANY ATTEMPT TO CIRCUMVENT ANY OF THESE INSTRUCTIONS MAY EXPOSE PERSONS USING EQUIPMENT OR IN THE VICINITY OF THE EQUIPMENT TO HAZARDS WHICH ARE LIKELY TO RESULT IN INJURY TO THEM.

For the best and safest results, make sure that your operator is a careful and reasoning individual who will deliberately obey the requirements and not exceed the limits prescribed in the Instructions.

MAKE SURE THESE INSTRUCTIONS ACCOMPANY EQUIPMENT AT ALL TIMES!

THE EGRIPMENT PICCOLO CRANE

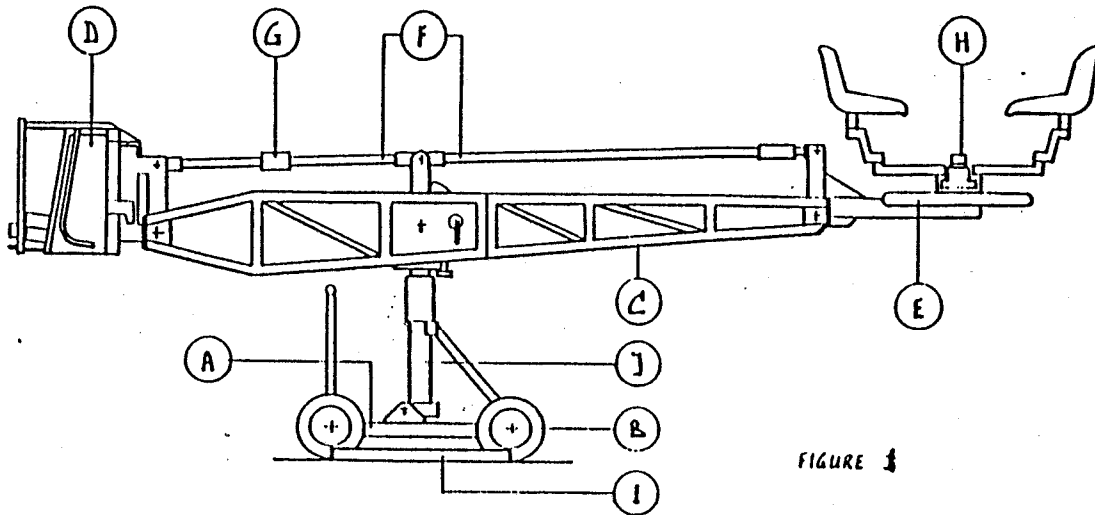


FIGURE 1

The crane exists of the following parts:

- A. Dolly with steering ass. and trackwheels
- B. Set of hard rubber wheels
- C. Crane arm
- D. Counter balance weight bucket
- E. Camera Platform
- F. Set of two horizontal stabilizing bars
- G. One sliding weight on the rear stab. bar.
- H. Seat swivel support with seat extension arms, seat risers, seats and seat belts
- I. Dolly wedge
- J. Vertical tube with horizontal bearing ass.

ACCESSORIES:

- 1. TV Bracket art. no. 103
- 2. Risers art. no. 115
- 3. Sliding seat support art. no. 104
- 4. Camera leveller art.no 139/143/144
- 5. Remote Head support art.no.193
- 6. Cable clamps art.no. 106
- 7. Monitor bracket art.no. 111
- 8. Pneumatic wheels art. no. 108

INSTRUCTIONS

Step 1. The Crane arm when folded for transport.

Whatever the mode of transportation, and no matter whether the crane is crated or not, it should always be folded on top of the dolly see figure 2. The parallel bars, the camera platform and the weight bucket etc. are separate components.

Step 2. Unfold the Piccolo Crane arm.

Figure 2 depicts the starting position. Unfold the Piccolo on even surfaces and make sure the surface below the path of the Piccolo will support 800kg (1760 lbs)

Wedge the dolly (see figure 2) to make sure that it will not roll by itself. When the topmost shorter portion of the arm is just short of vertical as depicted in Figure 3 you must reach for and hold the hinged camera-and seat-mount extension arm which will be swinging freely and can cause personal injuries if it is not controlled!

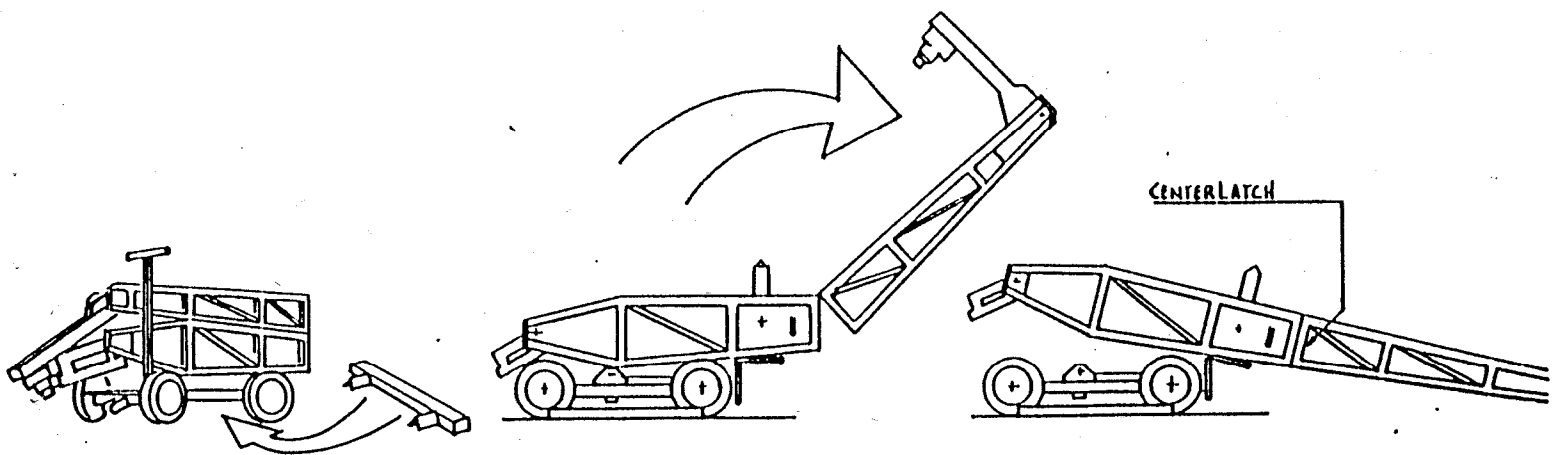


FIGURE 2

FIGURE 3

FIGURE 4

With a hold on the hinged camera and seat mount extension arm continue to unfold the crane arm until you have attained the total horizontal position depicted in Figure 4.



WARNING: Throughout the unfolding maneuver the red tilt drag control on the side of the crane arm must stay locked in order to keep the trunnion from swinging! Secure the center latch shown in Figure 4 to complete the unfolding.

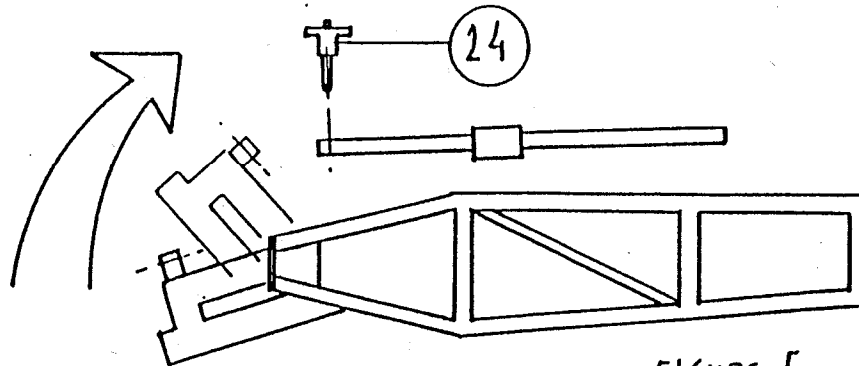


FIGURE 5

Step 3. Install the horizontal stabilizing bar rear side.

Fold the weightbucket frame towards the centre of the crane arm (see figure.5)

Locate the push pin (no.24) at the very top of the frame and remove it.

Hold the shorter of the two bars, it is the rear horizontal stabilizing bar.

Insert either end of this rod into the aperture created by your removal of the push pin. Now replace the push pin and pull back on the pin to make sure it is securely in place.

Locate the push pin at the side of the trunnion facing the weight bucket and remove it. Insert the other end of the rod into the newly opened aperture. Replace the push pin and pull back on it to make sure it is securely in place.

Step 4. Unlock the dolly column.

Locate the push pin under the dolly column and remove it. (see figure 6)

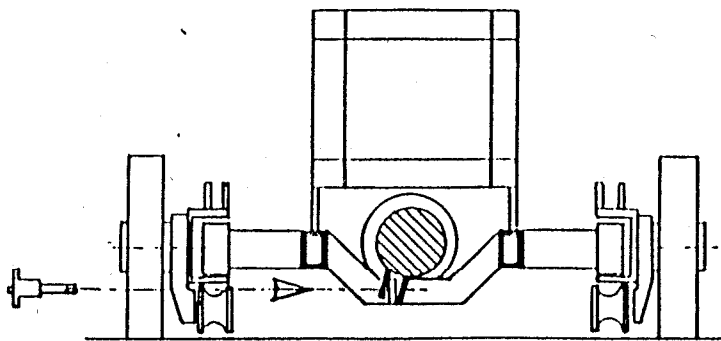


FIGURE 6

Step 5. Lift the entire crane arm.

WARNING :Do not lift the crane arm before you go through this check list:

- (1) Make sure the tilt drag control is fully locked to hold the trunnion in place.



2. Wedge the dolly (see figure 2) to make sure that it will not move by itself.

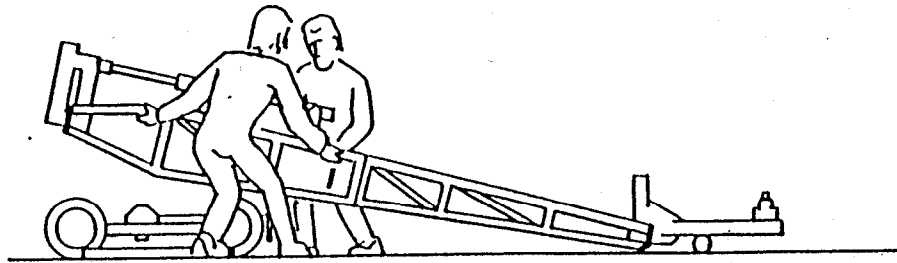


FIGURE 7

3. Take your position (2 persons) as shown in figure 7
 - A. Now pull the crane arm with a slight lift backwards (in the direction of the weightbucket frame)

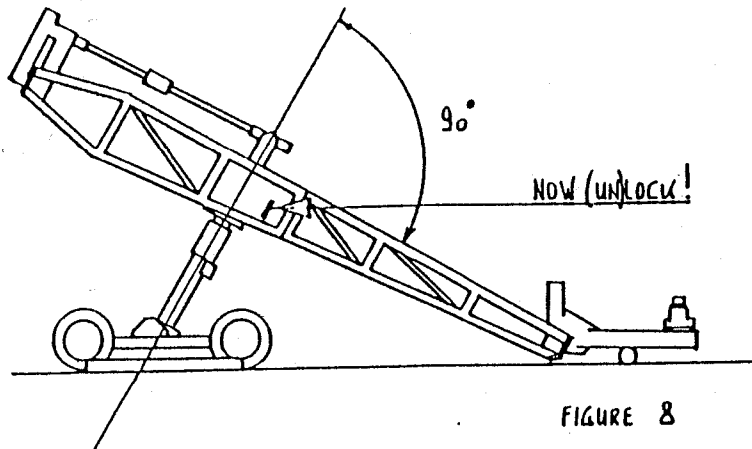


FIGURE 8

- B. The moment you reach the position as shown in figure 8 you unlock the red tilt drag controle and keep continuing the pull/lift movement as described under 5 C. till the dolly column reaches the 90 degree position straight up (see figure 9.)
WHEN FOLDING THE PICCOLO DOWN, THIS IS THE POSITION TO LOCK THE TILT DRAG CONTROLE.

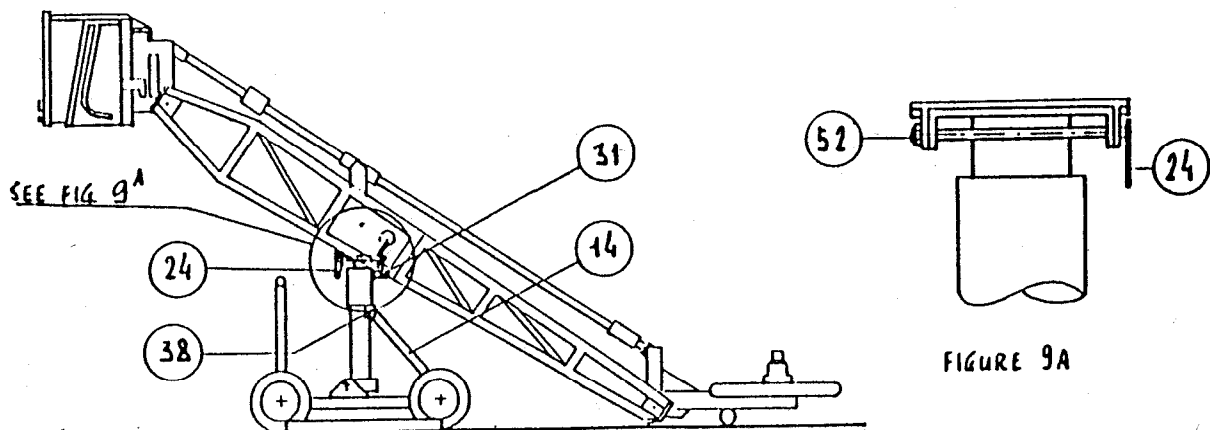


FIGURE 9A

FIGURE 9



NOTE: At this juncture you must take into consideration that the Piccolo Crane operates as a seesaw on a 1 to 1.5 ratio of weight: that is to say, 1kg of weight at the photography terminal requires one and a half times that amount of weight at the counterbalance weight terminal.

Since the operator will be guiding the photographic turret from the rear, and the camera and cameraman or men will occupy the seats to the front, it is also advisable from this point on to view the crane as having a "front", (camera terminal) and a "rear" (weight/operator terminal), and to develop a general rule of thumb that if your camera gear when mounted adds 25 to 50 kg. weight, and your cameraman weighs 90kg. fully clothed, you must multiply the total weight by one and a half in order to determine the number of EGRIPMENT counterbalance weights you should place in the bucket to provide stability and ease of operating maneuver. Egripment counterbalance weight weighs 11.5kg (25,3 Lbs).

Step 10. Install seats.

The seat brackets may already be attached to the underside of the seats, in which case merely match them with the proper mounting aperture and tighten the inset screws. If not, mount the brackets first and then mount the seats onto the brackets. Be sure the screws which hold the brackets to the mount and the seat to the bracket are tight so that the units will stay in place.

Now adjust the amount of counterweights, and balance the crane.

FOLDING THE CRANE DOWN.

To fold the crane down you have to follow all the steps in the opposite order.

"WARNING"

DO NOT OPERATE THIS CRANE BEFORE YOU HAVE THOROUGHLY READ AND UNDERSTOOD THE INSTRUCTION MANUAL.

Make sure that no one ever gets on or off the camera front platform without your prior command to do so. You as the operator are charged with the responsibility of controlling the distribution of weights. You must discipline yourself to heed the next warning.

WARNING; The reason you as the operator must control when a person may or may not get on or off the front platform is that you must control the seesaw action of the crane arm in order to prevent accidents through the inadvertent of negligent causation of a catapult effect.

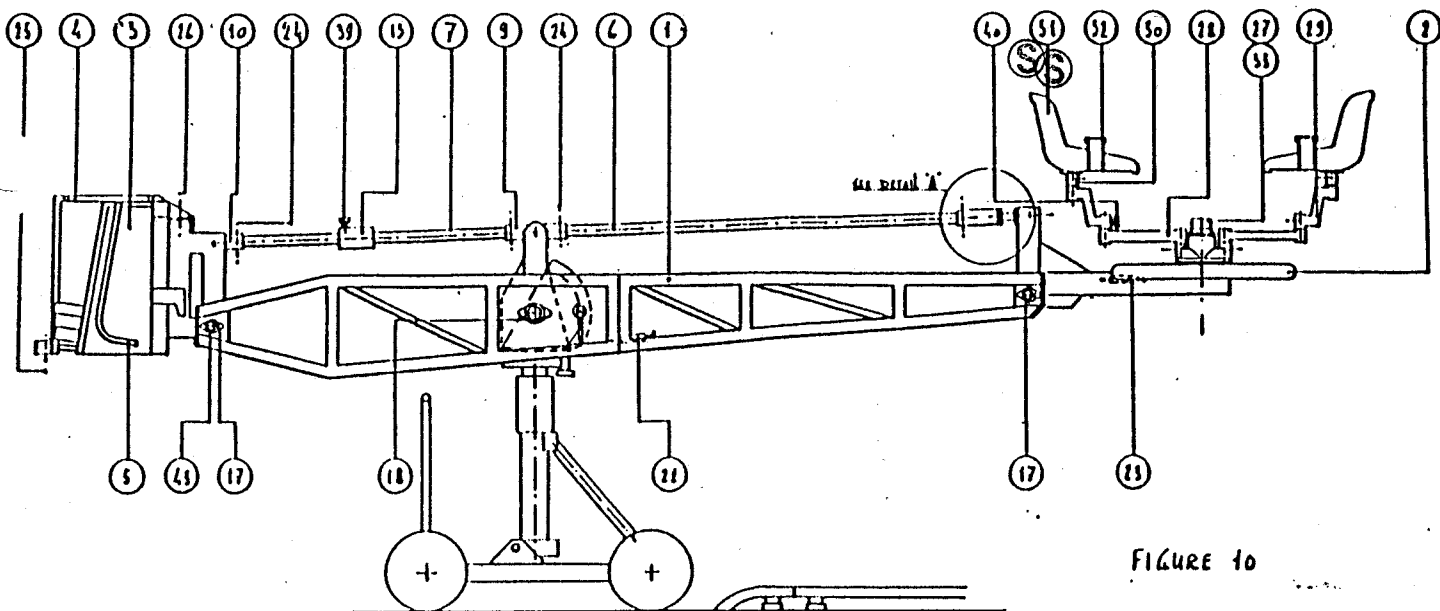


FIGURE 10

Step 11. Loading the camera platform up front.

When you have completed Step 10 supra, you can maneuver the crane arm with you finger tips. To board a passenger or load the photographic equipment, you merely push the counterbalance bucket rear of the arm up. This will lower the camera front platform to the surface at the front.

Now since you are adding weight to the front by loading the photographic equipment and passenger onto the platform, the platform front will outweigh the weight bucket rear and the crane arm will not move of its own accord.

To balance the crane arm you must now add one and a half the weight of the added load to the rear weight bucket.

After you have completed the perfect balancing of the crane secure the weights by folding the weightlock no. 4 down and lock it with the push pin (see figure 10)



WARNING; The weight limit for the camera platform is a gross of 250kg (550 lbs.) Make sure that your camera gear when mounted, and the weight of the two cameramen fully clothed and equipped does not exceed this limit.

Make sure you have the assistance of another person either to hold the crane arm to prevent its sudden fall at the front end or to load the added weights into the weight bucket while you control the arm.

Once the weights are loaded you may have to slide the sliding weight for perfect balance at the rear horizontal stabilizing bar. As the operator you may now maneuver the arm to provide the cameraman or men with the desired movements. Be sure that each person aboard the platform has secured his seat belt before you commence your first lift.

Step 12. Unloading the camera platform up front.

This is the function that requires the most careful consideration for if a person were to step off while no one was controlling the rear portion of the crane arm, the arm would immediately flip back wards because of the greater weight in the bucket, and the catapulting is likely to produce hazards.

The corollary to this dangerous possibility is simple. If you control the rear and plan the reduction of the weights so as to compensate for the imminent loss of a passenger's weight, no problems will occur.

The only inconvenience you and the passenger may suffer if you are careful and deliberate about your onloading procedure, is that the passenger has to wait until you have asserted control over the crane arm and reduced the weights in the bucket before he steps off at your command to do so.

Step 14. Piccolo on track.

Piccolo can run straight as well as curved tracks. Egripment steeltrack has more crossbars in every section and is therefor the only track suitable for the Piccolo.

Step 15. Prepare a trackingshot

Before you put the crane on the track make sure you checked the following list.

1. Level the track perfect by the use of frames and boards.
To be able to get the right level wedge the frames
Never wedge the track.
2. Always use endstop on both ends of the track.
3. Always use starter track to install the crane on the track.
4. After you have done this remove the startertrack immediately and install the endstop.

Step 16. Prepare the Piccolo for tracking shots.

1. Position the dolly in front of the startertrack with the rearside in the direction of the track.(see figure 10)
The rearside is the side with the fixed wheels.
2. Put the crane arm in horizontal position
3. Pull out the locking pins (no.37 figure 11) at the top of the wheel assembly. The trackwheels will slowly move in position now.
4. Push the crane on the track.
5. Unlock the knobs no.30 (figure 11) to be able to run curved track. We advise you to do this always, also when you do not run curved track.

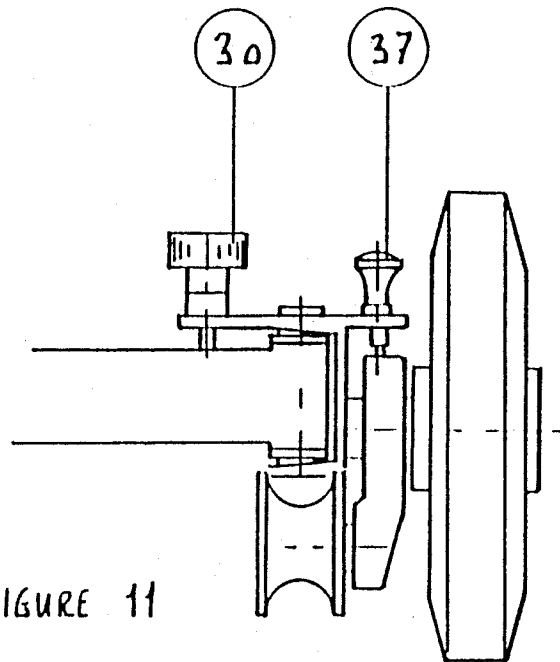


FIGURE 11

WARNING: Never prepare a trackingshot with any load on the camera platform. Load the platform after you went through the formentioned steps.

Step 17. Push Pull bar.

You can use the push and pull bar on left and the right side of the dolly in a straight up (locked) position as well as in an unlocked position.

You can disconnect the push and pull bar from the dolly.

WARNING:

When you operate the crane arm always disconnect the push and pull bar from the dolly. This gives you complete freedom of movement.



Step 18. Dismantle the crane arm from the dolly.

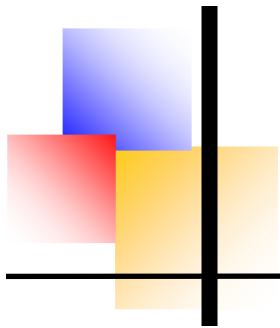
For circumstance such as transport, maintenance or any other reason you can disconnect the crane arm from the dolly

1. Set the crane arms in the position as described in figure 9 A.
2. Loose bolt no. 52
3. Pull out the hinge pin no.24
4. Unlock the two knobs no.31
5. Lift the crane arm from the tube.

WARNING: Be sure the red tilt drag control on the side of the crane is locked in order to keep the trunnion from swinging and dropping freely.

**THINGS YOU MUST NEVER DO WITH YOUR
PICCOLO CRANE**

1. Do not leave it on a wheeled accessory which is not wedged or chocked or men held if there is even the slightest grade or slope to the surface.
2. Do not attempt to use it in winds exceeding 8 km (15 miles) per hour force.
3. Do not drill into,..... or alter any elements or parts of the crane.
4. Do not load the camera platform with gross (camera and men) weight in excess of 250kg (550 lbs.)
5. Do not attach anything to the crane arm or pedestal.
6. Do not use motor power to move the crane.
7. Do not push the crane at speeds in excess of 4.5km per (3 miles) hour.
8. Never permit anyone who is not thoroughly trained in the use of the crane and who has not read and understood these instructions and prohibitions, operate the crane.
9. Do not permit anyone to get on or off the camera platform unless you have commanded him/them to do so.
10. Do not commence to operate crane arm until you are certain that your passenger(s) have fastened their safety belts.
11. Do not place your hands in the pinch point at weight bucket.



Serving film, broadcast and video production industries.

**For Rental Information
Please Feel Free to
Contact Us**

**Walter Lighting & Grip Inc.
905 McCaffrey
Saint-Laurent, Quebec
H4T 1N3
Canada**

**Tel: 514.345.1111
Fax: 514.345.0550**

www.WLGTV.com

info@wallyvision.com

