Lenny Arm® III Crane Arm

USER GUIDE

Operational Instructions & Specifications

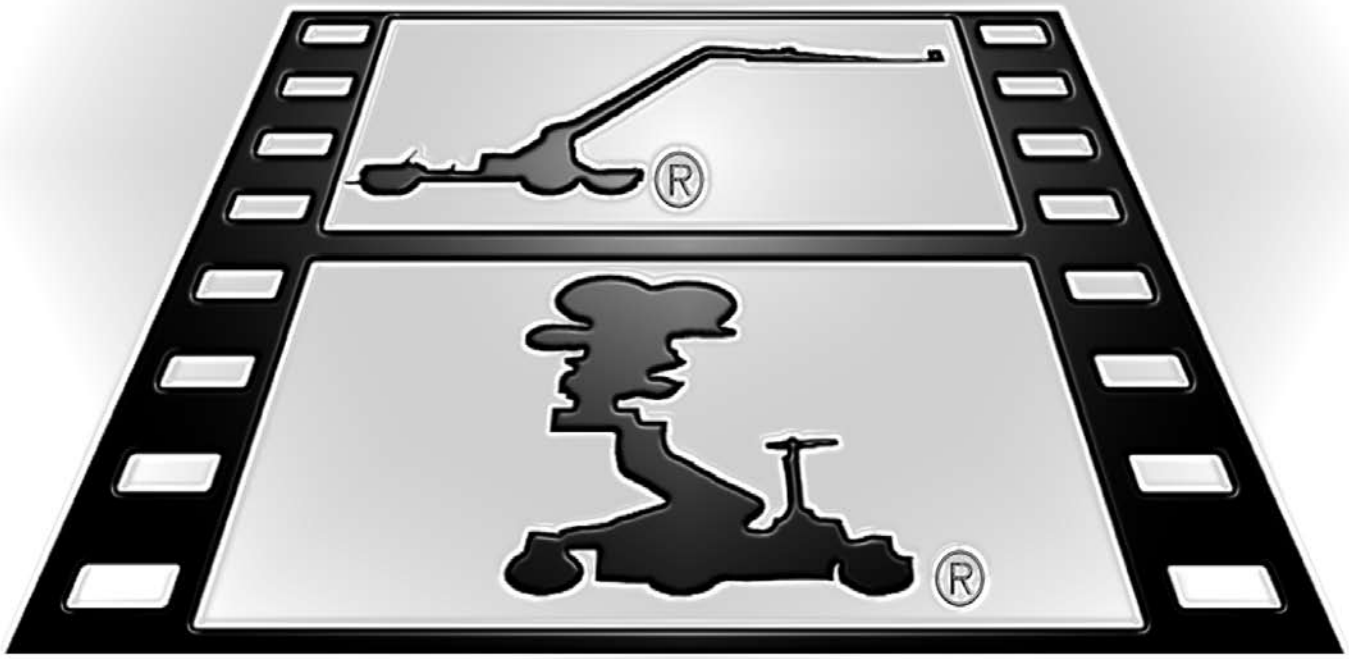
Lenny Arm® III

CHAPMAN/LEONARD
STUDIO EQUIPMENT, INC.

888-883-6559
www.chapman-leonard.com

 Revision 19 - 7/2008

CHAPMAN/LEONARD STUDIO EQUIPMENT, INC.



It is Chapman/Leonard's goal to provide the best camera support equipment with exceptional Customer Service. Therefore, we are compiling this User Guide to aid in the reordering of Replacement Parts for your Leased Equipment.
For any questions regarding this User Guide, please contact Customer Service at 888-883-6559 or 818-764-6726.

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The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

Revision 19 - 7/2008

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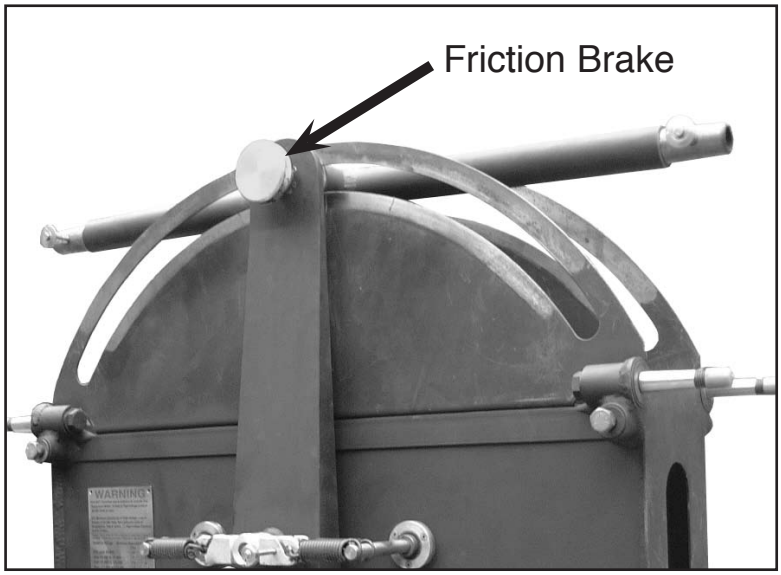
SAFETY FIRST!

When assembling a Lenny Arm, never use the tires as a step. The wheels will turn easily if the base is raised up on the Jackscrews.



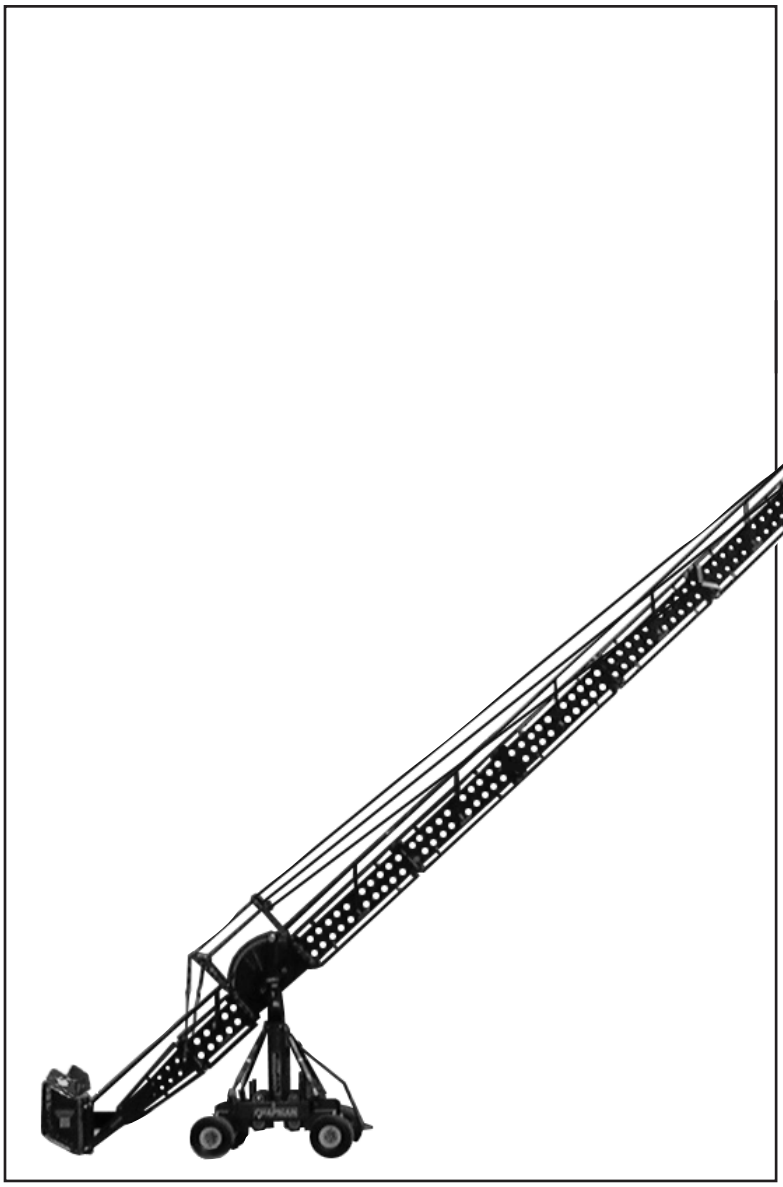
The Friction Brake is used **only** when the Arm is in balance. It can not be used to hold an unbalanced Arm in place.

A Balanced Arm is achieved by adding weights as each additional front section is attached to the Arm. This procedure ensures that no undue stress is placed on any one section of the Arm and guarantees the most rigid platform for the camera.

Warning! The Riser is for Unmanned or Remote Configurations only.

Use gloves when adding or removing weights. Be sure the latch on the Bucket is returned to the locked position after each addition of weights.

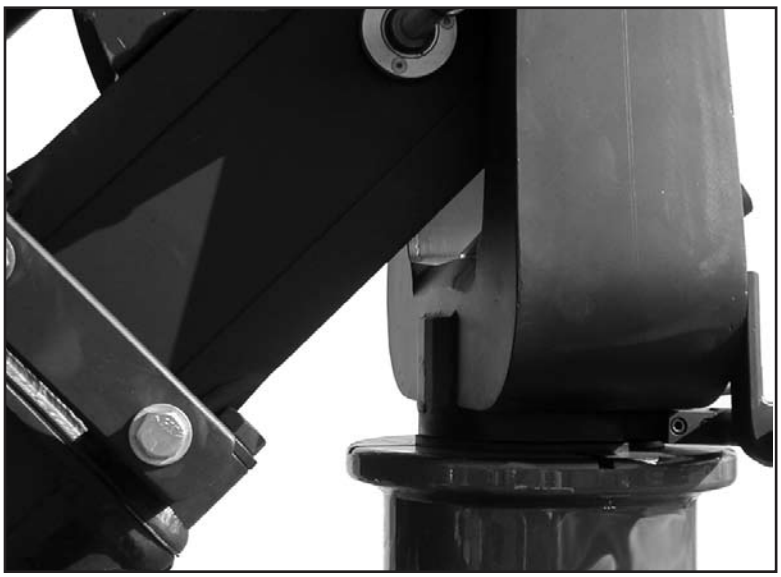
SAFETY REQUIREMENTS



When the Arm is raised to its maximum height, the Weight Bucket will touch the ground.

This is a **REQUIRED** safety feature.

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.



When the Weight Bucket is on the ground, there will still be clearance between the Yoke of the Center Post as pictured.

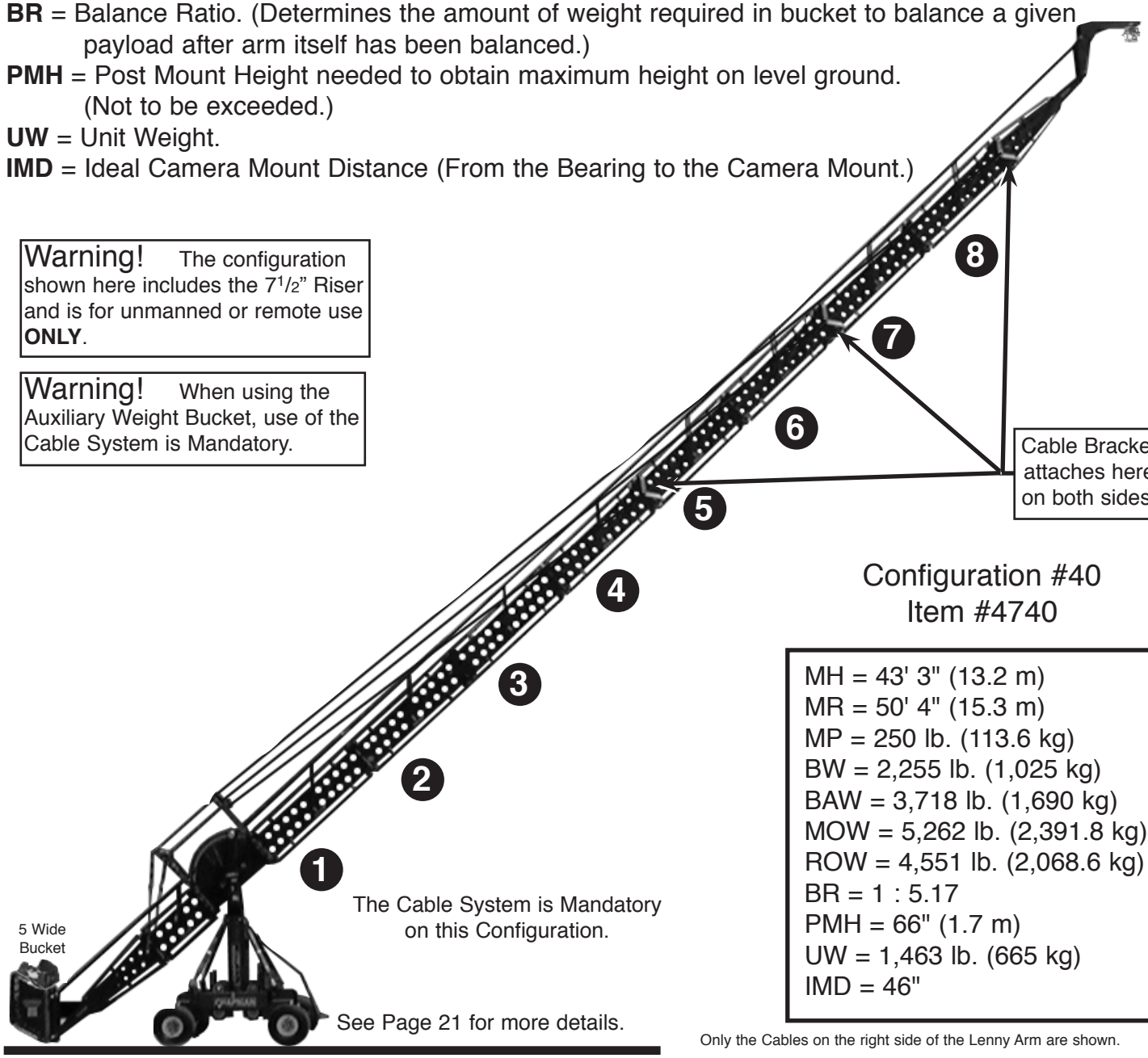
The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

BRACKET PLACEMENT with 8 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



See Page 21 for more details.

Configuration #40
Item #4740

MH = 43' 3" (13.2 m)
MR = 50' 4" (15.3 m)
MP = 250 lb. (113.6 kg)
BW = 2,255 lb. (1,025 kg)
BAW = 3,718 lb. (1,690 kg)
MOW = 5,262 lb. (2,391.8 kg)
ROW = 4,551 lb. (2,068.6 kg)
BR = 1 : 5.17
PMH = 66" (1.7 m)
UW = 1,463 lb. (665 kg)
IMD = 46"

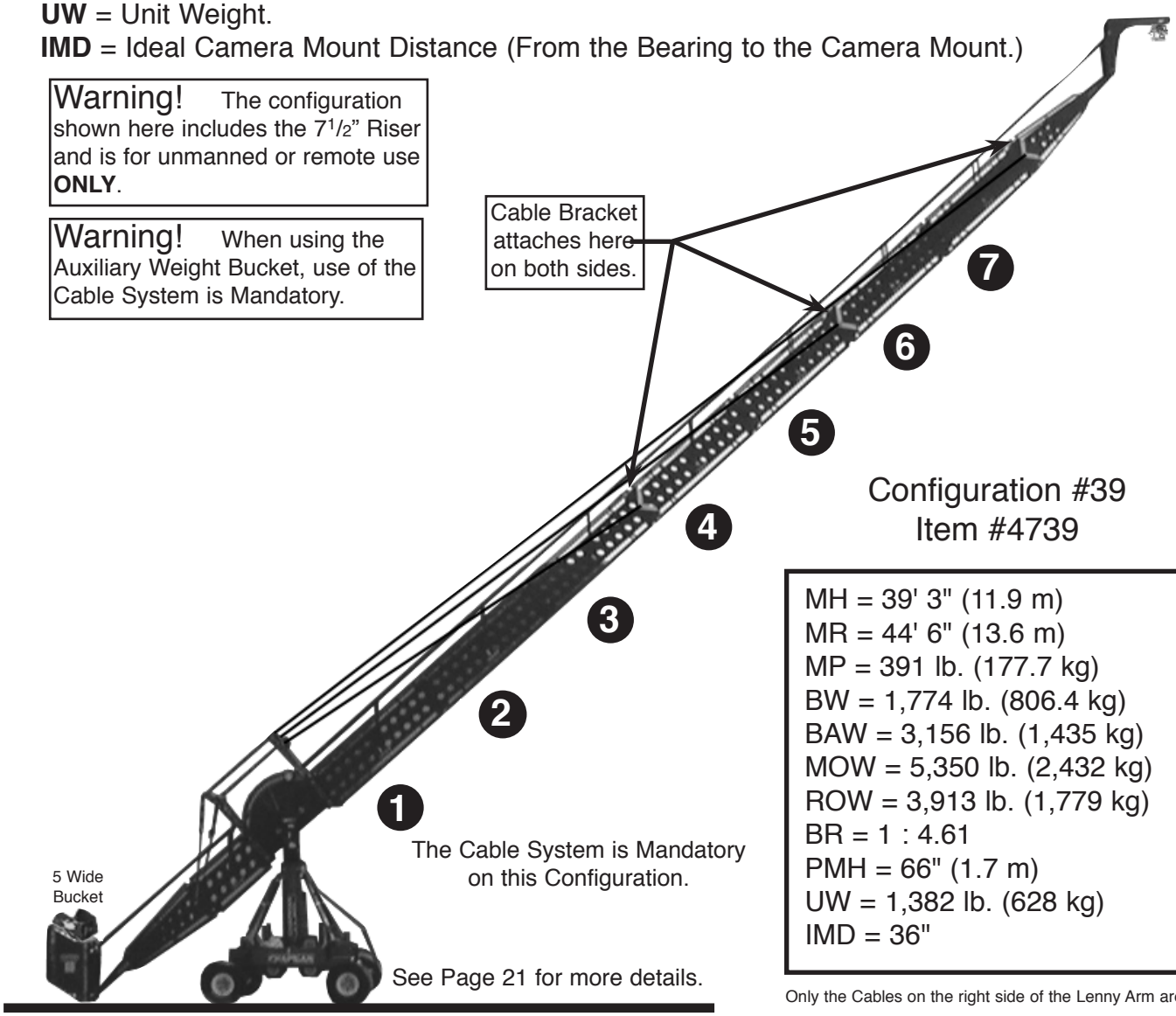
Only the Cables on the right side of the Lenny Arm are shown.

BRACKET PLACEMENT with 7 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



The Cable System is Mandatory on this Configuration.

See Page 21 for more details.

Configuration #39
Item #4739

MH = 39' 3" (11.9 m)
MR = 44' 6" (13.6 m)
MP = 391 lb. (177.7 kg)
BW = 1,774 lb. (806.4 kg)
BAW = 3,156 lb. (1,435 kg)
MOW = 5,350 lb. (2,432 kg)
ROW = 3,913 lb. (1,779 kg)
BR = 1 : 4.61
PMH = 66" (1.7 m)
UW = 1,382 lb. (628 kg)
IMD = 36"

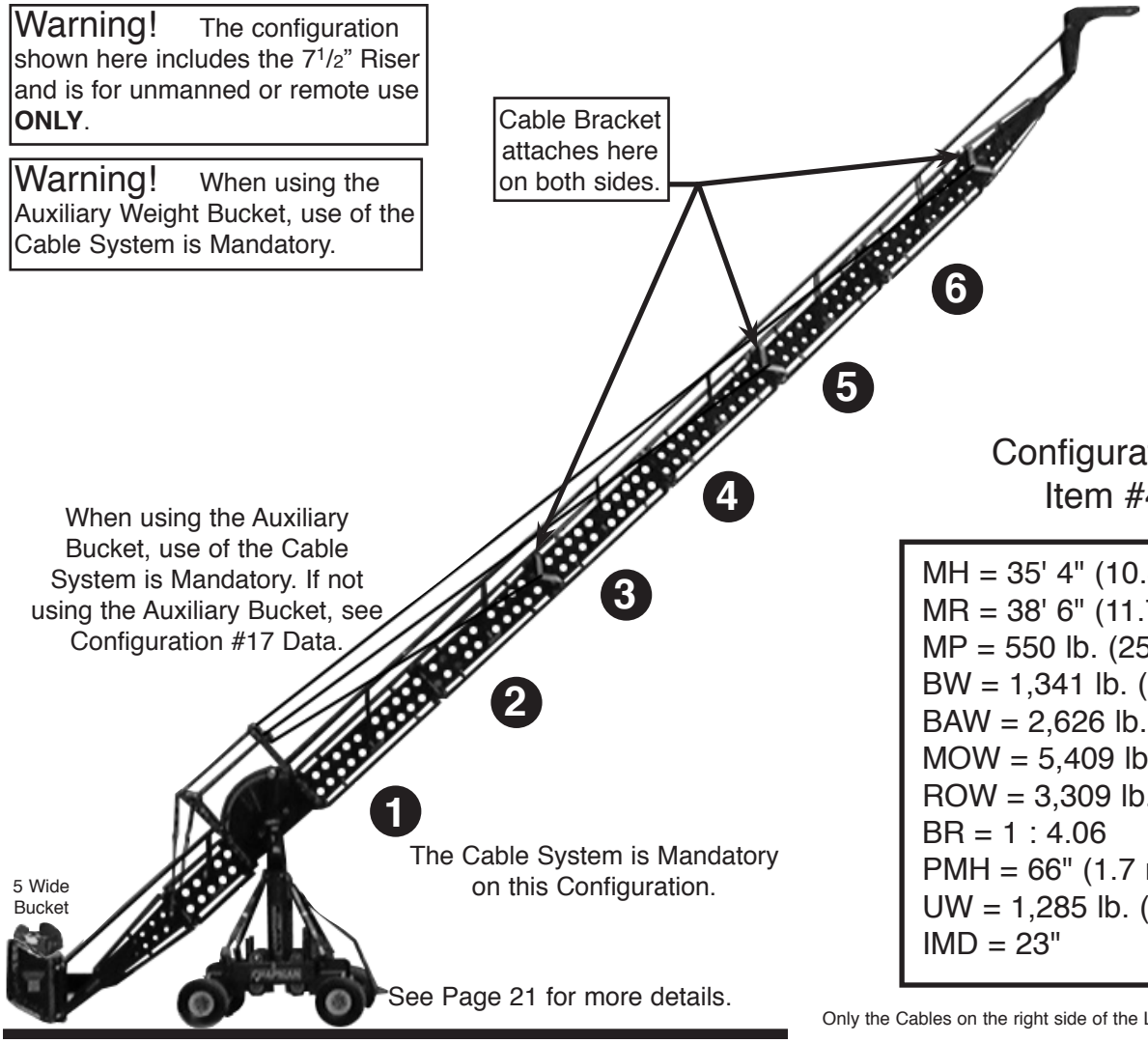
Only the Cables on the right side of the Lenny Arm are shown.

BRACKET PLACEMENT with 6 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



Configuration #38
Item #4738

MH = 35' 4" (10.8 m)
MR = 38' 6" (11.7 m)
MP = 550 lb. (250 kg)
BW = 1,341 lb. (609.5 kg)
BAW = 2,626 lb. (1,194 kg)
MOW = 5,409 lb. (2,459 kg)
ROW = 3,309 lb. (1,504.1 kg)
BR = 1 : 4.06
PMH = 66" (1.7 m)
UW = 1,285 lb. (584 kg)
IMD = 23"

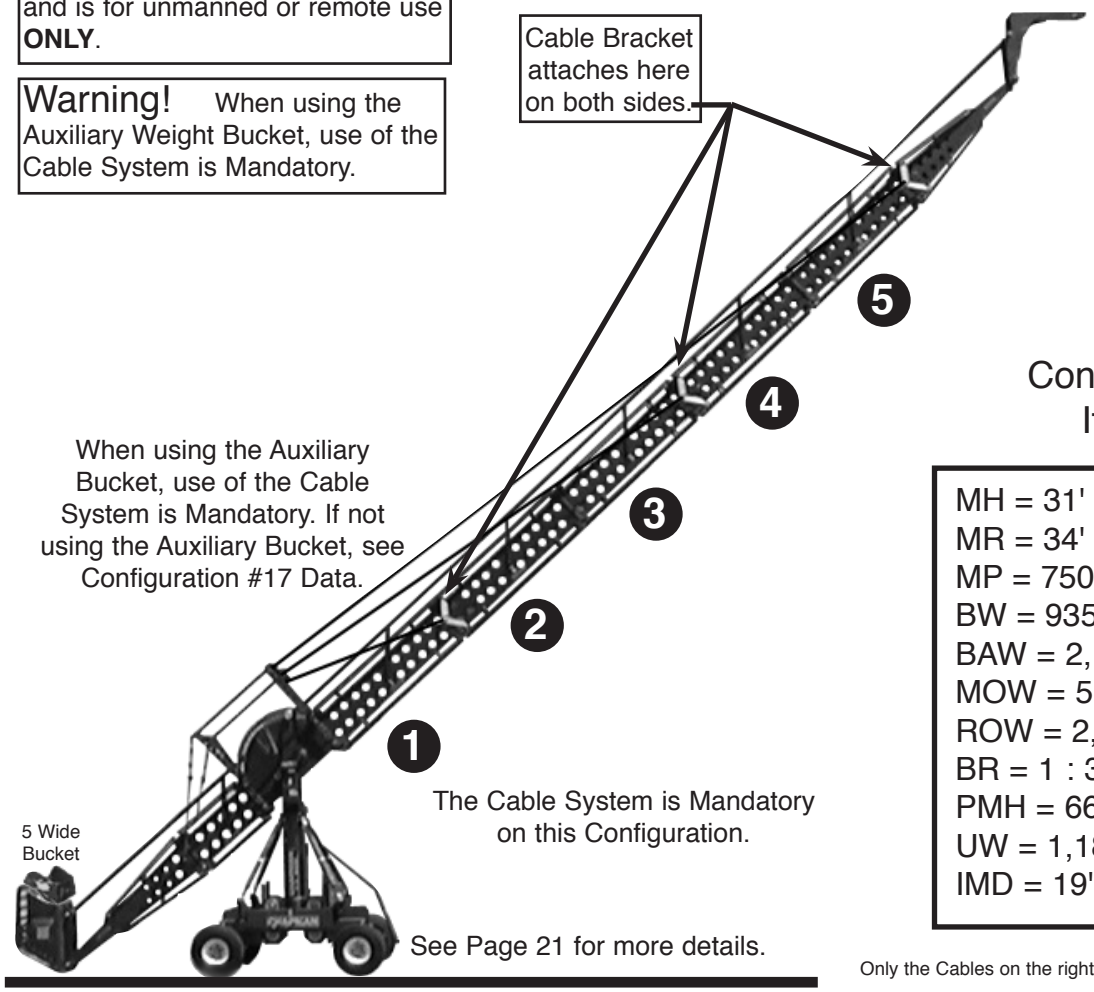
Only the Cables on the right side of the Lenny Arm are shown.

BRACKET PLACEMENT with 5 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7½" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



See Page 21 for more details.

Configuration #37
Item #4897

MH = 31' 5" (9.5 m)
MR = 34' 1" (10.4 m)
MP = 750 lb. (340.9 kg)
BW = 935 lb. (425 kg)
BAW = 2,123 lb. (965 kg)
MOW = 5,498 lb. (2,499.1 kg)
ROW = 2,735 lb. (1,243.2 kg)
BR = 1 : 3.5
PMH = 66" (1.7 m)
UW = 1,188 lb. (540 kg)
IMD = 19"

Only the Cables on the right side of the Lenny Arm are shown.

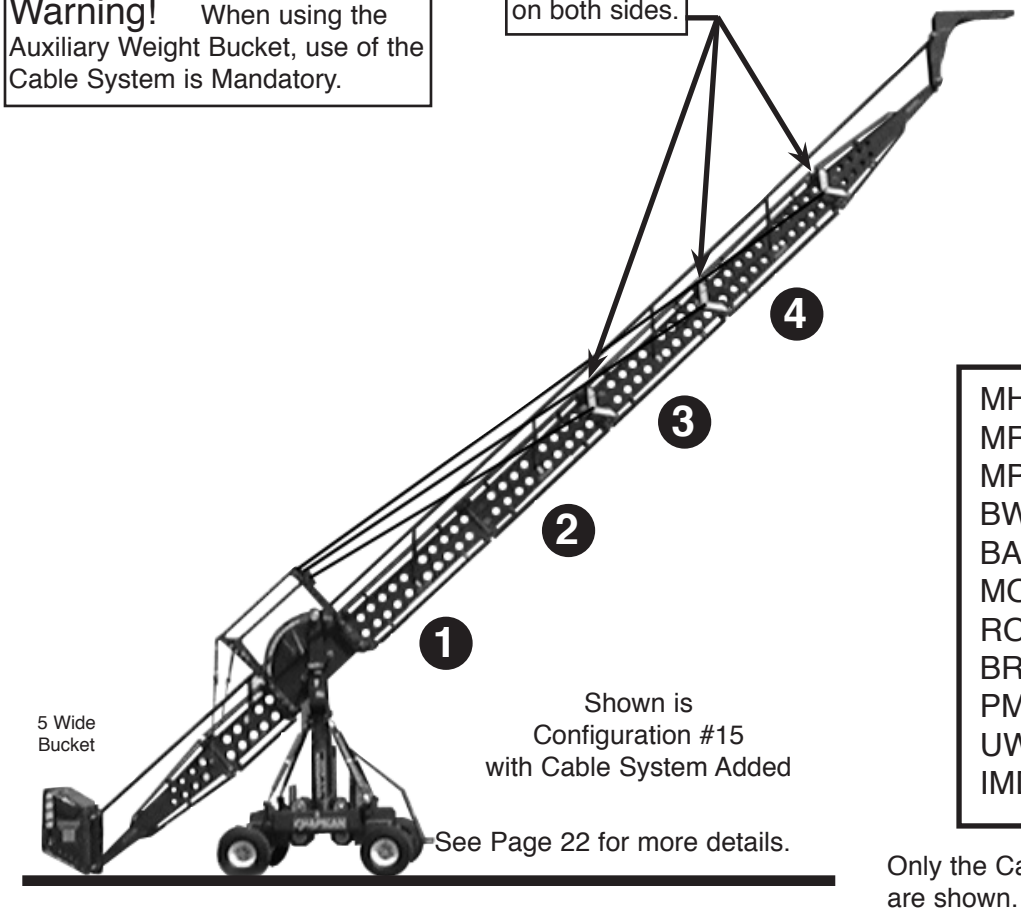
The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

BRACKET PLACEMENT with 4 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



Shown is Configuration #15 with Cable System Added

See Page 22 for more details.

Configuration #15
Item #4875

MH = 27' 6" (8.4 m)
MR = 28' 8" (8.7 m)
MP = 720 lb. (327.3 kg)
BW = 623 lb. (283.2 kg)
BAW = 1,616 lb. (734.5 kg)
MOW = 4,455 lb. (2,025 kg)
ROW = 2,150 lb. (977.3 kg)
BR = 1 : 2.94
PMH = 66" (1.7 m)
UW = 933 lb. (451.4 kg)
IMD = 26"

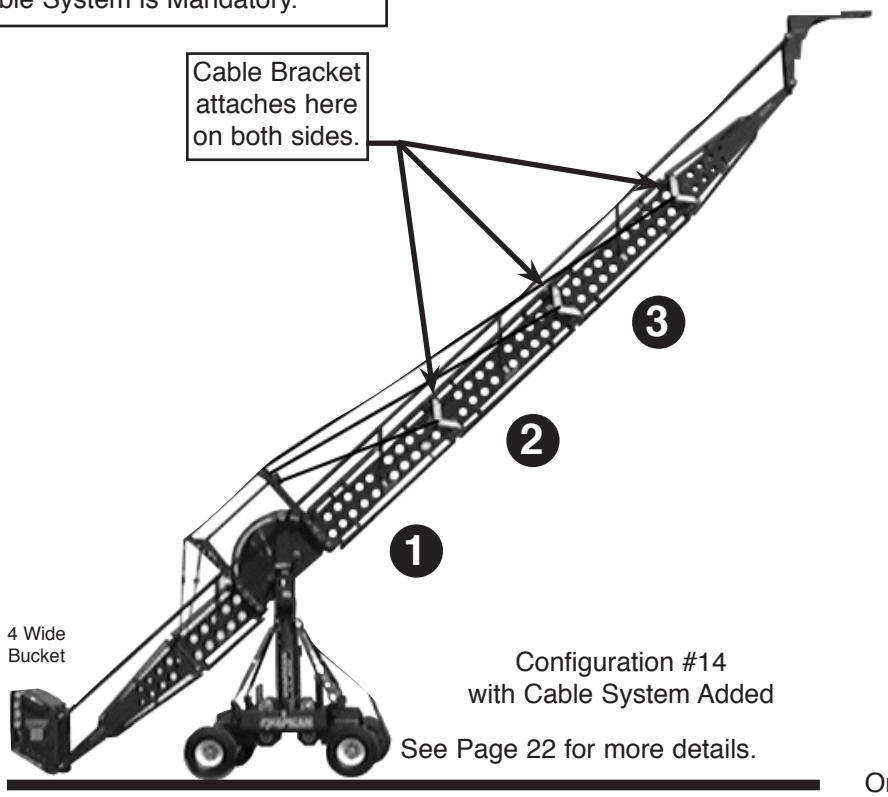
Only the Cables on the right side of the Lenny Arm are shown.

BRACKET PLACEMENT with 3 SECTIONS
when using the 3 CABLE SYSTEM

MH = Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.
MR = Maximum Reach (As measured from center post to ideal camera position.)
MP = Maximum Payload.
BW = Bucket Weight for Balanced Arm (No Payload.)
BAW = Balanced Arm Weight (No Payload.)
MOW = Maximum Operational Weight of unit. (With 135 lb. Payload.)
ROW = Remote Operational Weight of unit. (With 135 lb. Payload.)
BR = Balance Ratio. (Determines the amount of weight required in bucket to balance a given payload after arm itself has been balanced.)
PMH = Post Mount Height needed to obtain maximum height on level ground. (Not to be exceeded.)
UW = Unit Weight.
IMD = Ideal Camera Mount Distance (From the Bearing to the Camera Mount.)

Warning! The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use **ONLY**.

Warning! When using the Auxiliary Weight Bucket, use of the Cable System is Mandatory.



Configuration #14
with Cable System Added

See Page 22 for more details.

Configuration #14
Item #4874

MH = 23' 7" (7.2 m)
MR = 23' 3" (7.1 m)
MP = 700 lb. (318.2 kg)
BW = 390 lb. (177.3 kg)
BAW = 1,275 lb. (579.5 kg)
MOW = 3,650 lb. (1,659.1 kg)
ROW = 1,734 lb. (788.2 kg)
BR = 1 : 2.39
PMH = 66" (1.7 m)
UW = 884 lb. (401.8 kg)
IMD = 21"

Only the Cables on the right side of the Lenny Arm are shown.

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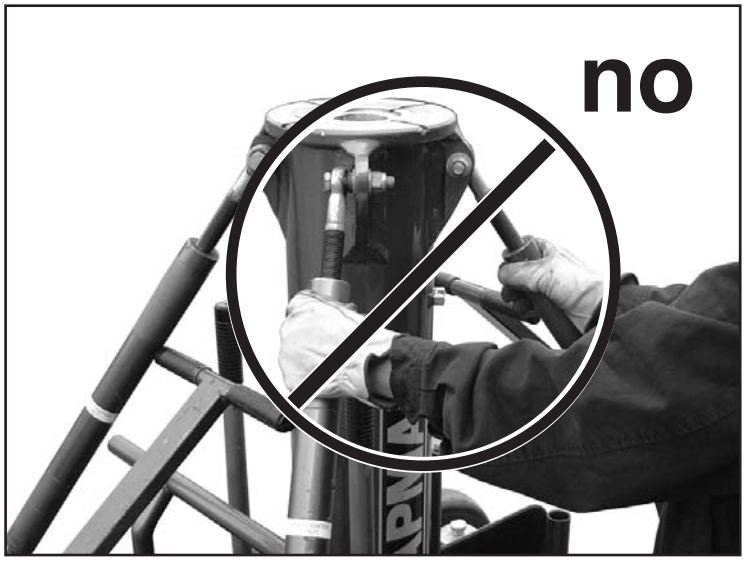
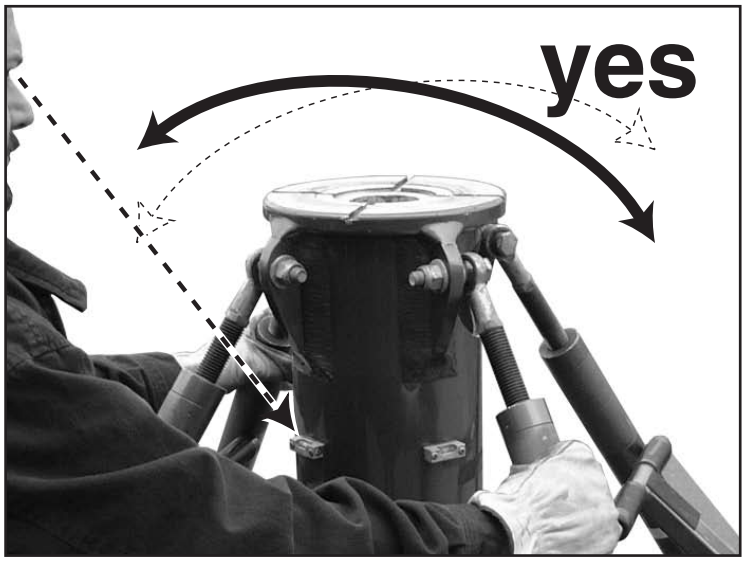


LEVELING THE CS BASE CENTER POST

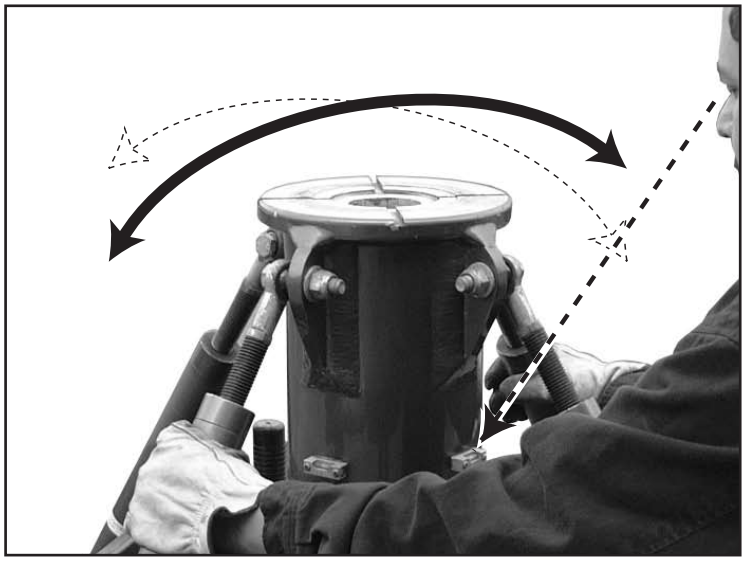
DO NOT attempt to Level or Adjust the CS Base Center Post by turning Adjacent Leveling Rods. Adjacent Leveling Rods are on different Axes.



Begin by observing the Leveling Bubble Indicators on the Center Post. Leveling Rods that are opposite each other are on the same axis. They must be turned in unison. Each set of Leveling Rods has its own Leveling Bubble.

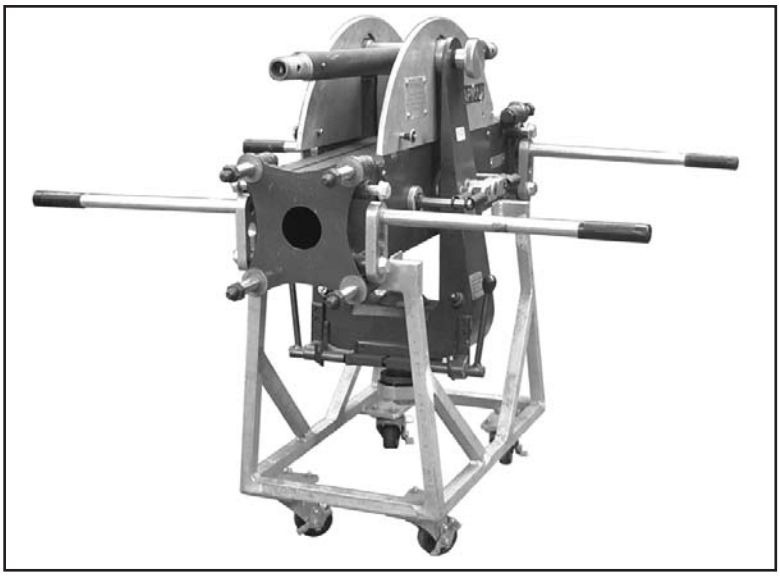
Grab opposing Leveling Rods and loosen the right hand Leveling Rod. One Leveling Rod will be turning clockwise while the other will be turning counter clockwise.

When the Leveling Bubble indicates that the Center Post is level on this axis, tighten the right hand Leveling Rod to lock the Leveling Rods in place.



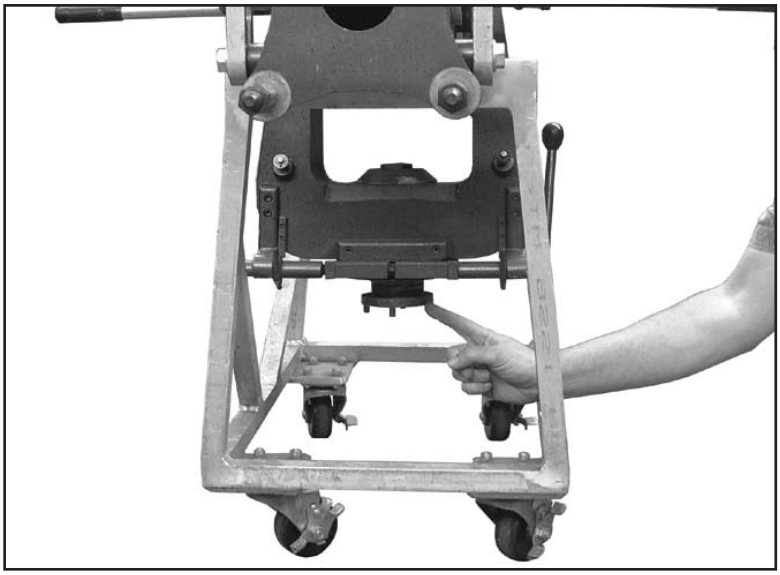
Complete the Leveling Process by adjusting the second set of opposing Leveling Rods in the same manner.

The CS Base Center Post may be leveled with a Lenny Arm Center Post and Lenny Arm attached only when the Arm is first adjusted to a Balanced State.



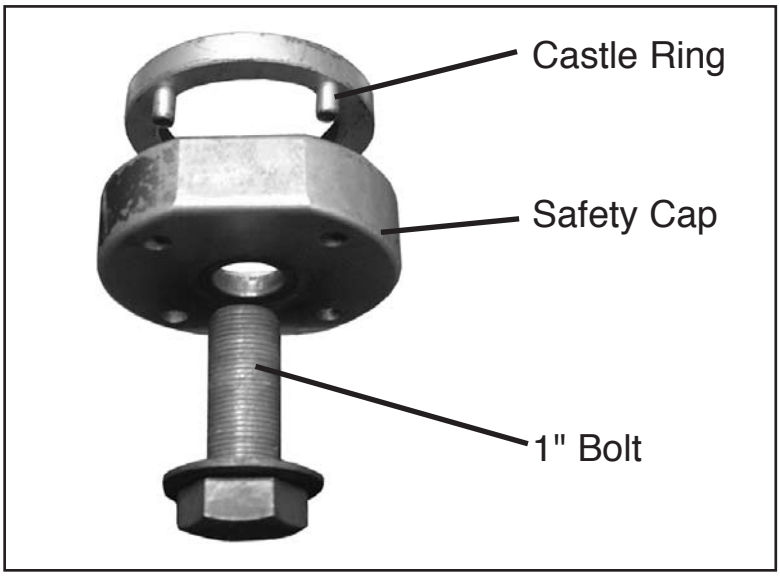
MOUNTING THE LENNY ARM CENTER POST

The Lenny Arm Center Post can be placed on a work stand for maintenance or storage.



When the Lenny Arm Center Post is not mounted on a Base, protect the threads with the Castle Ring.

Remove the Castle Ring in preparation for mounting the Lenny Arm Center Post to the CS Base.



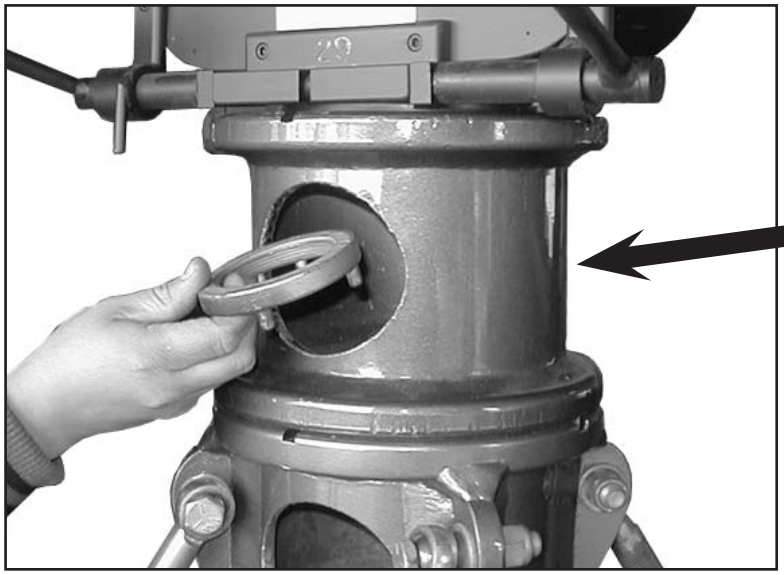
The Lenny Arm Center Post is attached to the CS Base Center Post with this arrangement of parts.

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

MOUNTING THE LENNY ARM CENTER POST

After placing the Lenny Arm Center Post atop the CS Base Center Post, loosen the Bolt attached to the Lifting Bar at each location. (4 places)

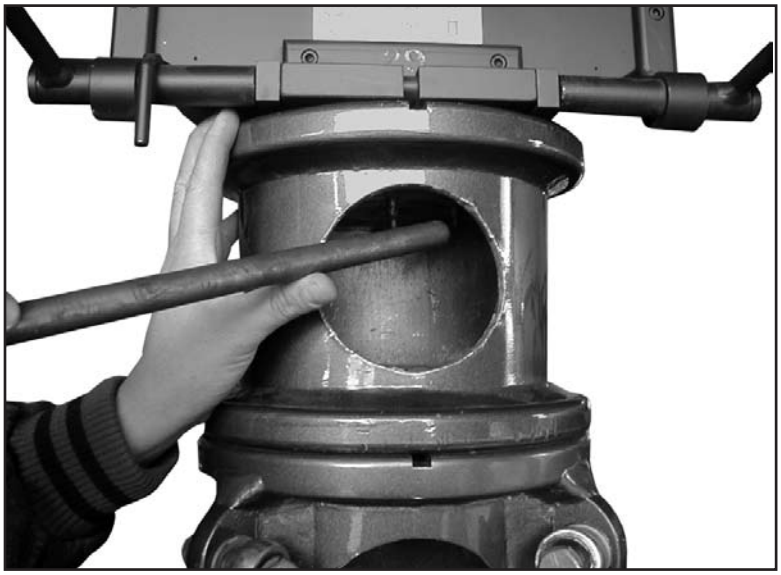
Detach the Lifting Bars at four locations.



Attach the Castle Ring to the Lenny Arm Center Post.

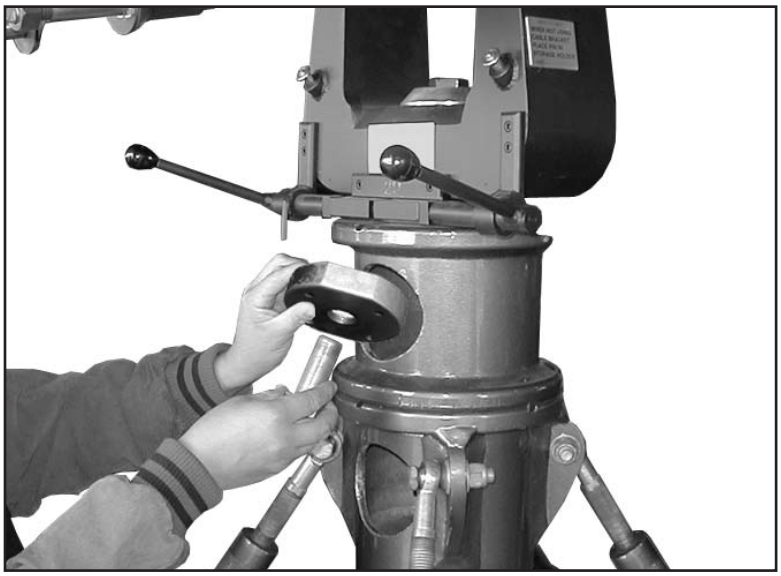
Warning! The 7½" Riser should not be used with Manned Configurations.

It is attached to the Lenny Arm Center Post with a 1" Bolt and Nut. It may be removed and the Lenny Arm Center Post attached directly to the CS Base Center Post.



MOUNTING THE LENNY ARM CENTER POST

Tighten the Castle Ring with a bar or rod.



Attach the Bolt and Safety Cap to the Castle Ring. Tighten with a wrench.

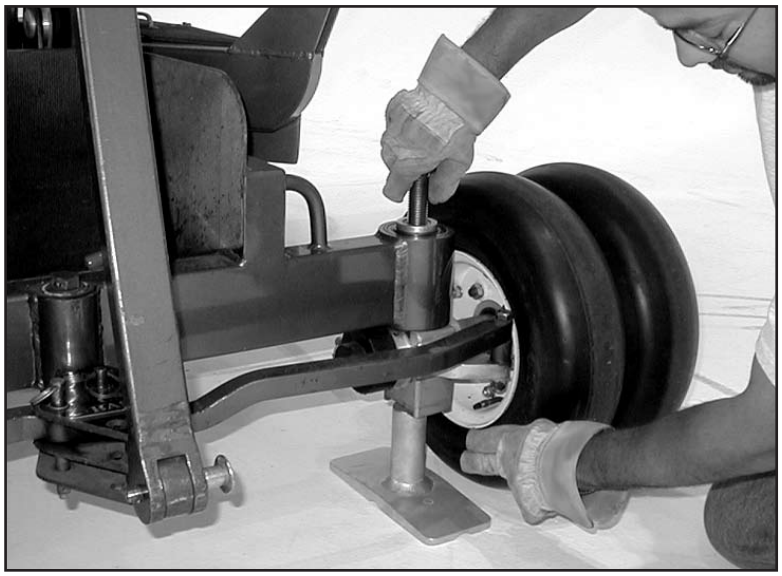
Remove the Fin Guards from the Center Section. This completes the Mounting Procedure for the Center Post.

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

SECURING THE BASE

Begin assembly of the Arm by placing the Base on a level surface. Remove the Kingpin Cap.

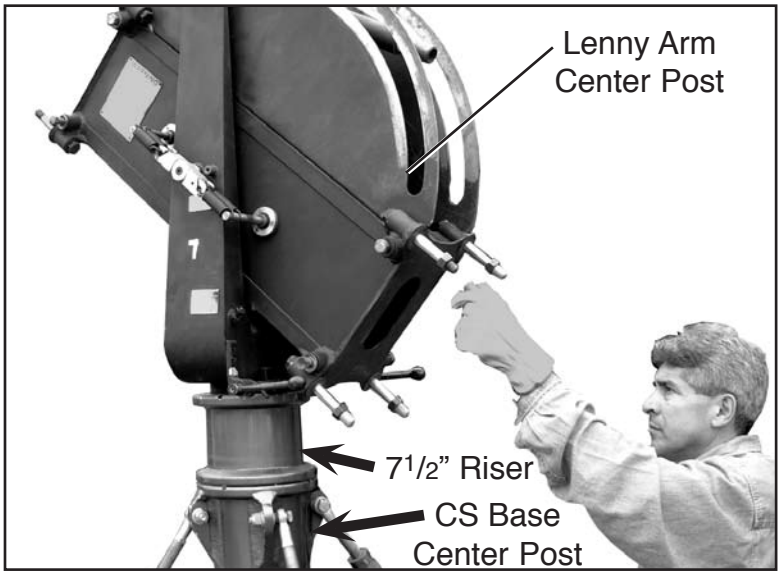
Insert the Jackscrew through the Kingpin hole. Place the Plate on the ground with the dimple on the plate in position to receive the Jackscrew.



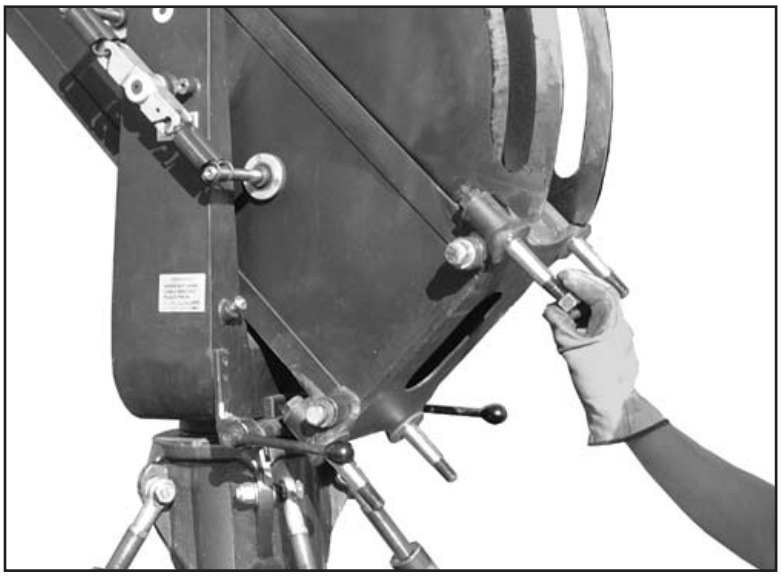
Turn the Jackscrew by hand to raise the Base slightly off the ground. Do not raise the wheel off the ground more than necessary.

Warning! The weight of the CS Base should be evenly distributed between the wheels and the four Jackscrews.

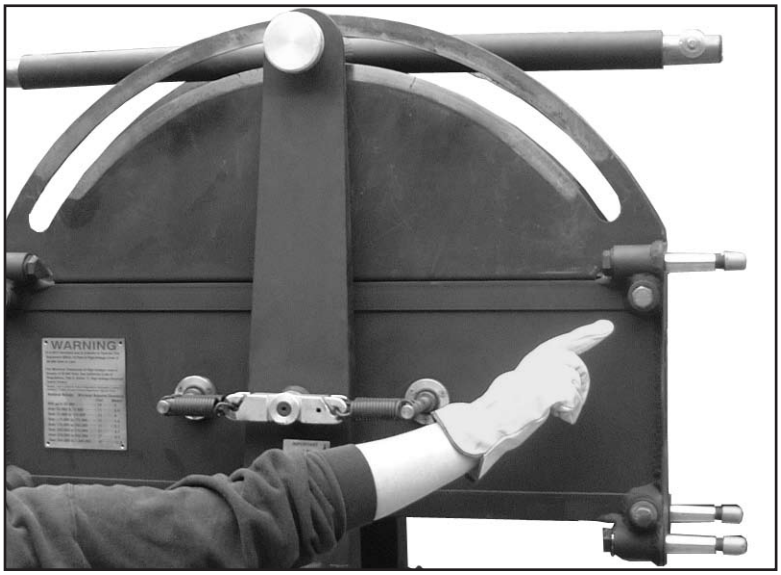
GETTING STARTED



Tilt the Lenny Arm Center Post and remove the plastic covers from the bolts.



Remove the nuts from the bolts on the Lenny Arm Center Post.



The Center Post Cable Brackets attach to bolts on the sides of the Lenny Arm Center Post section.

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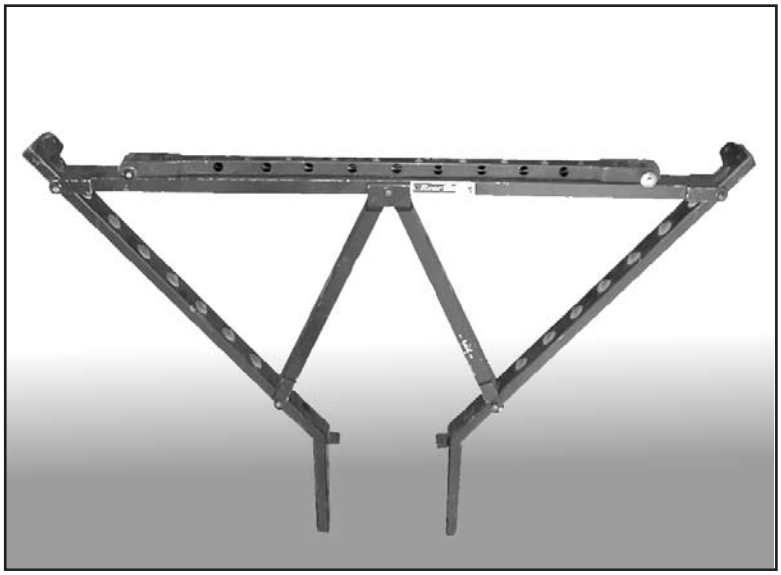
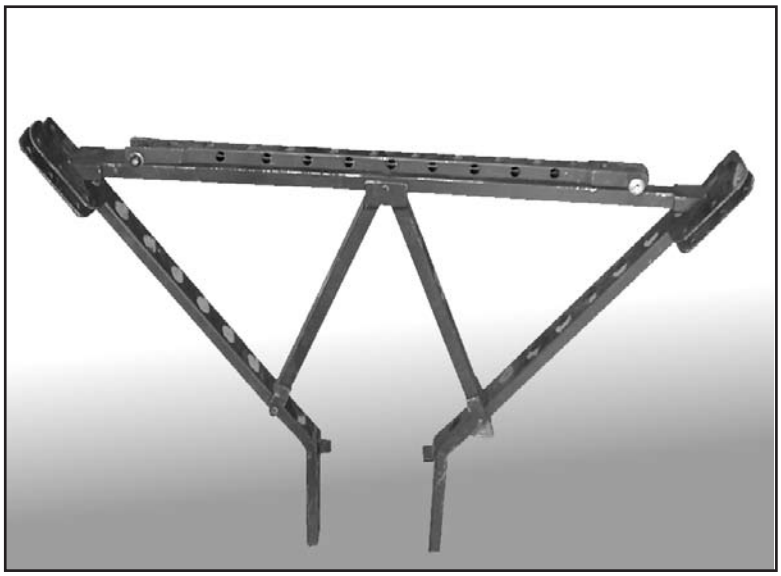
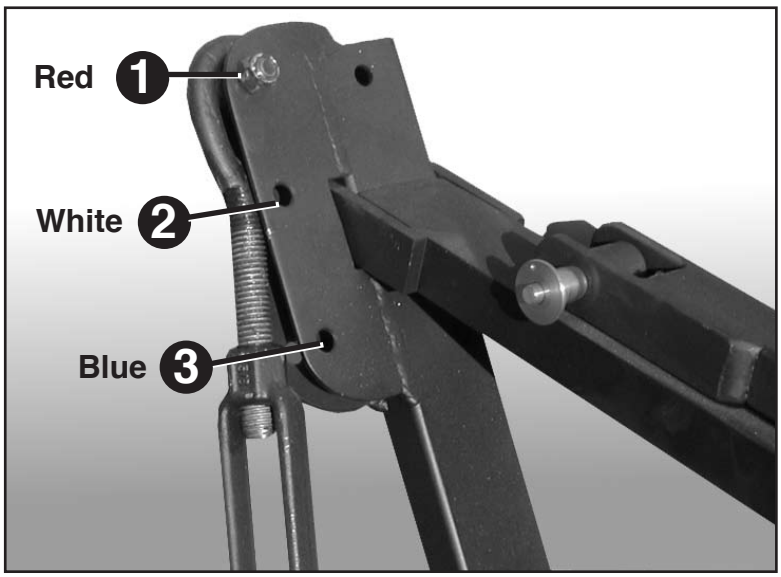
CENTER POST CABLE BRACKETS



The Rear Section of the Center Post Cable Bracket has single cable attachments on each side.

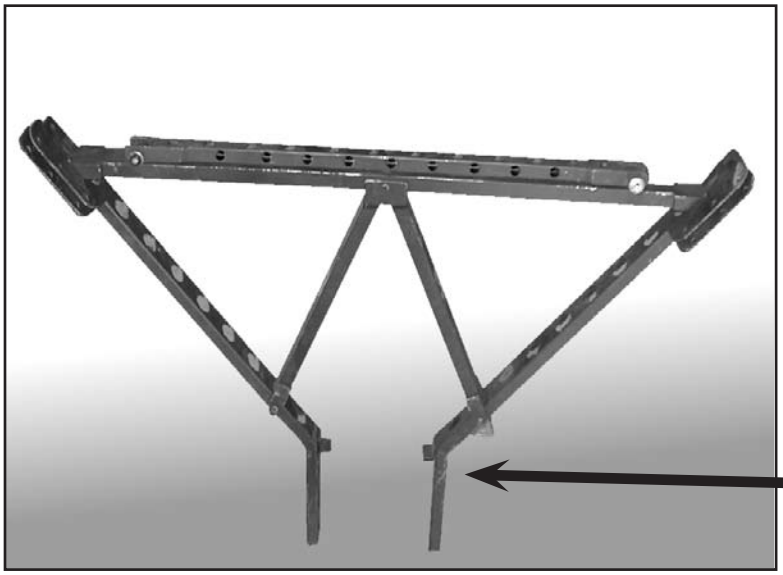


The Front Section of the Center Post Cable Bracket has triple cable attachments on each side.

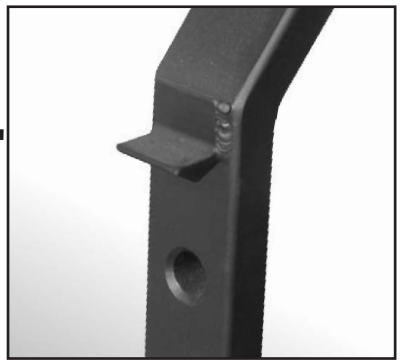


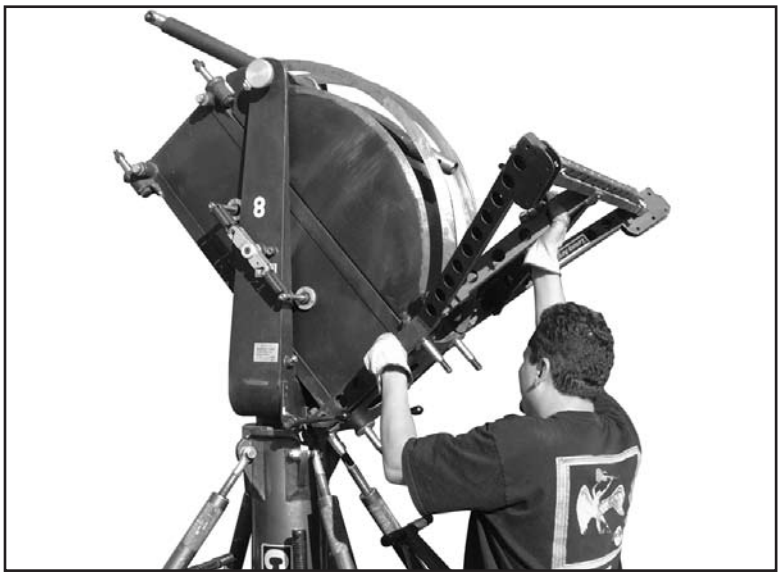
Close-up of Front Section triple cable attachment holes.

CENTER POST CABLE BRACKETS

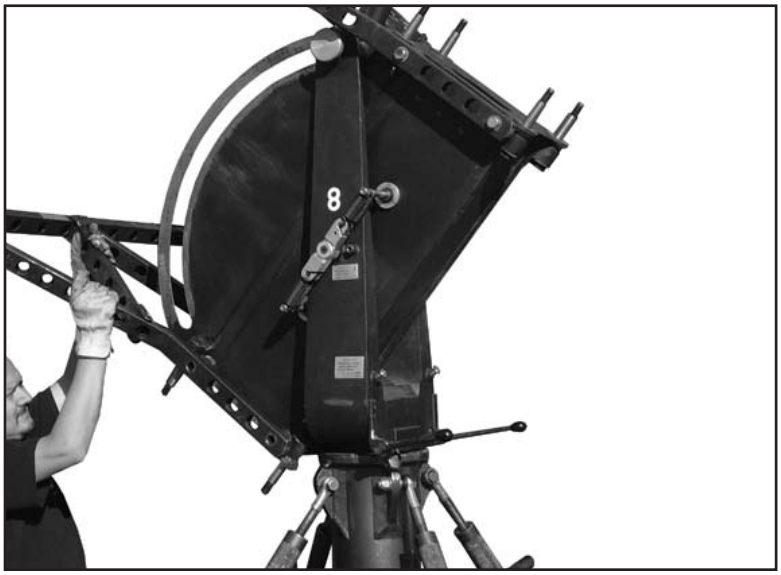


The Center Post Cable Brackets have Flanges that can be rested on the Center Post section during assembly.



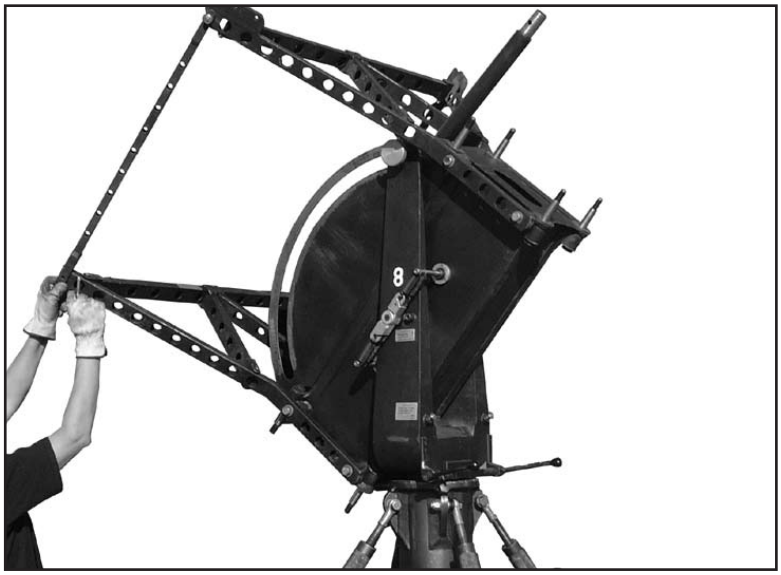


Tilt the Center Post section and attach the first Center Post Cable Bracket. Hand tighten the bolts.

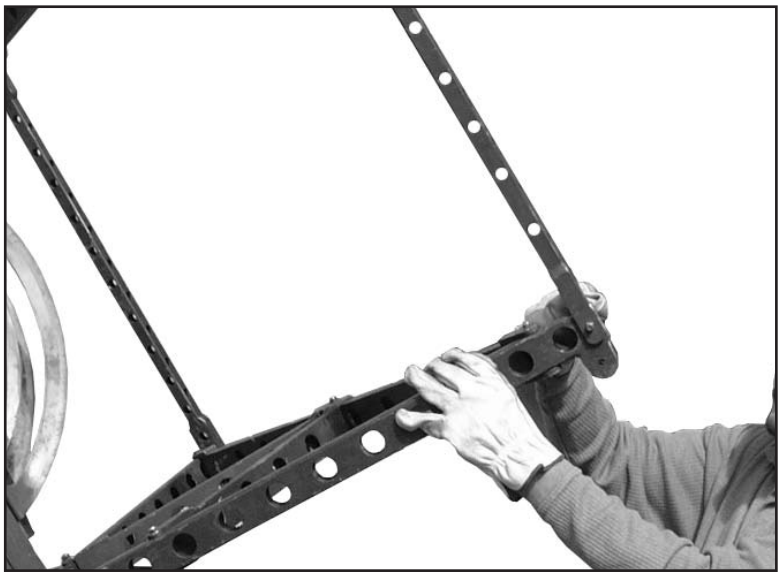


Lower the opposite end of the Center Post section and attach the second Center Post Cable Bracket. Hand tighten the bolts.

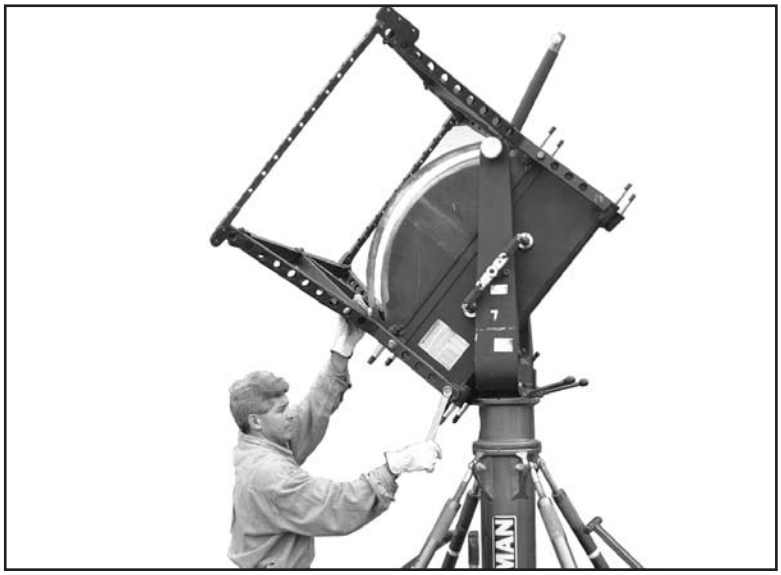
CENTER POST CABLE BRACKETS



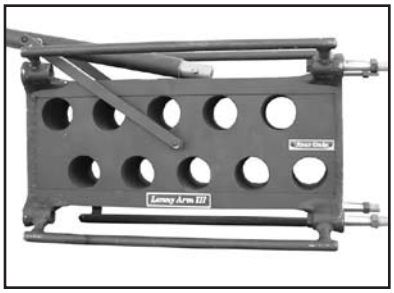
Attach the Center Post Cable Bracket Cross Member using a Quick Release Pin.



Tilt the Center Post section to the opposite side and secure the Cross Members with Quick Release Pins.



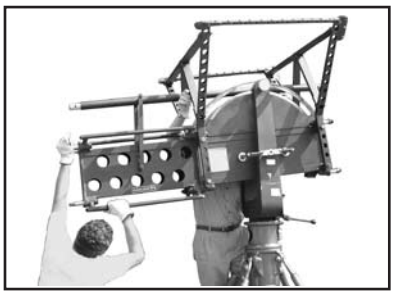
The bolts securing the Center Post Cable Brackets may now be tightened with a wrench.



THE REAR SECTION

One end of the Lenny Arm Center Post is marked "Rear Only". Begin building the Arm by attaching the first section, which is also marked "Rear Only".

Tilt the Lenny Arm Center Post toward yourself and attach the Leveling Rod with a Quick Release Pin.

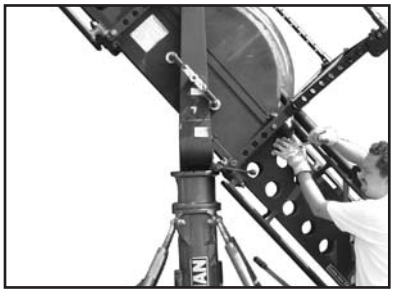


Place the section onto the bolts and tighten.

BALANCE WHILE ASSEMBLING

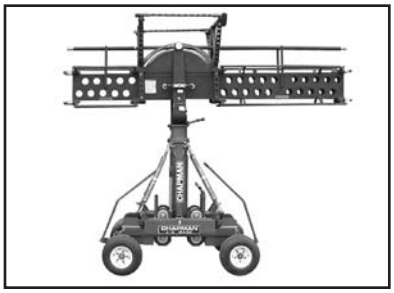
The key to building a Lenny Arm quickly and safely is to use the Fulcrum's ability to tilt.

Tilt the Arm toward the front and attach the first front section.



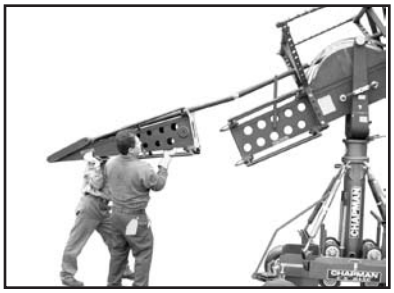
Insert the Quick Release Pin in the Leveling Rod and secure. Tighten the nuts with a wrench.

> Warning! Always keep the base stationary by using the jackscrews or chocking the wheels.



The Arm is now almost balanced with close to equal weight on the front and rear.

By alternating from front to rear, the Arm is kept stable during construction and there is less stress on each section.

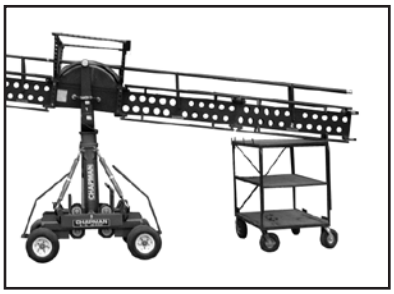


THE WEIGHT BUCKET

Attach the Rear Segment Leveling Rod, insert the Quick Release Pin and secure. Slide the section onto the bolts. Tighten nuts with a wrench.

Attach the Weight Bucket to the rear by inserting the rod into the upper hole. Hand tighten the knurled knob on each end of the rod.

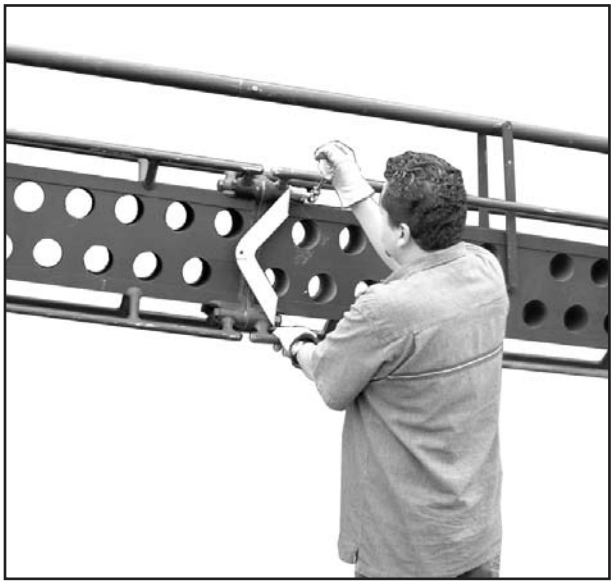
Attach the lower rod to the Weight Bucket. Hand tighten the knurled knobs at both ends of the rod.



THE SECTION CABLE BRACKETS

Tilt the Arm toward the front and add the next front section. Attach and secure the Quick Release Pin in the Leveling Rod. Attach the Arm and tighten the nuts with a wrench.

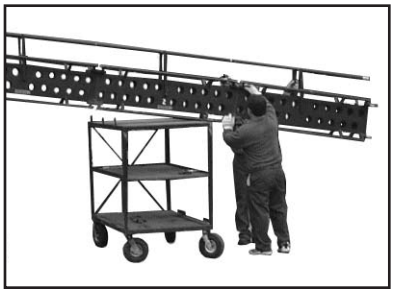
The Accessory Cart can now be used to rest the Arm while continuing to add sections. **Chock or lock the wheels to secure the Accessory Cart's position beneath the Arm.**



At this point in the construction of the Arm, you should take time to consider where the Section Cable Brackets will be attached to the Sections of the Arm.

The Section Cable Brackets are attached as specified by this manual. (See pages 5 - 10). The V shape points to the rear of the arm and is placed under the anchor bolts for this section.

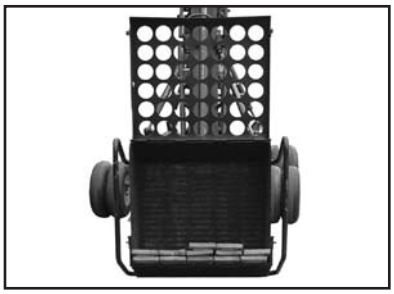
The Section Cable Brackets can be moved to different section locations after the Lenny Arm is completely assembled and balanced. Remove nuts from one side at one location. Attach the section cable bracket. Attach nuts and tighten with a wrench.



THE ACCESSORY CART USED AS SUPPORT

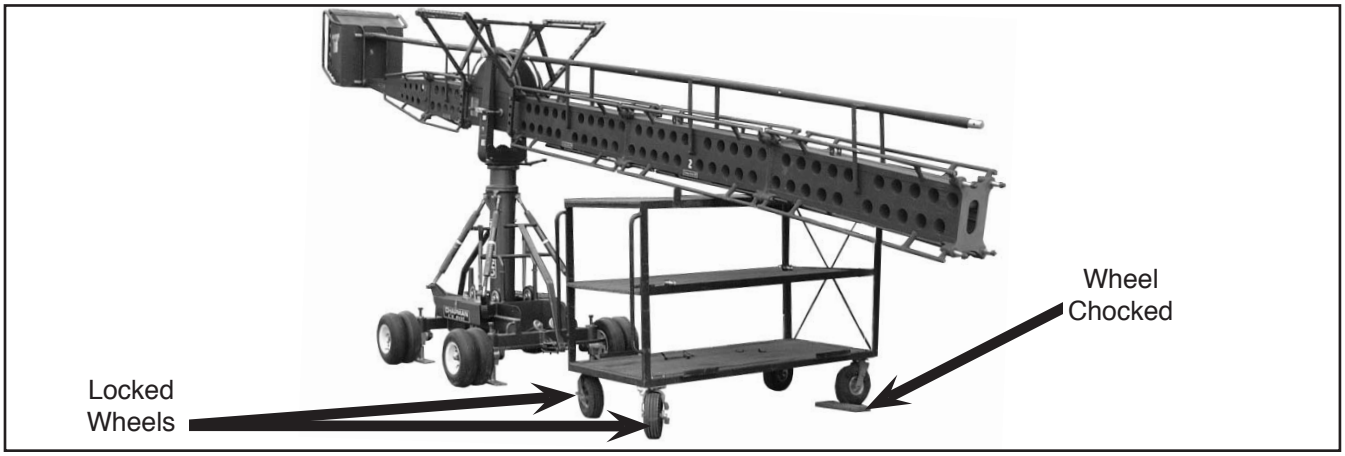
While using the Accessory Cart as a support, attach the next front section, beginning with the Leveling Rod. Tighten the nuts with a wrench.
Chock or lock the wheels to secure the Accessory Cart's position beneath the Arm.

Add weights to the Bucket to reestablish balance before attaching the next section to the front. This is a continuing process. With each additional front section, reestablish balance by adding additional weights to the bucket.

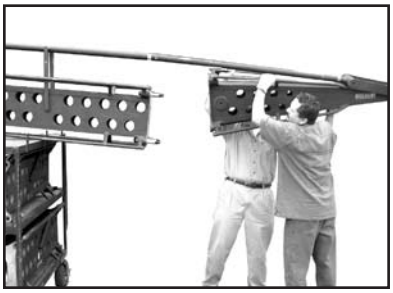


WEIGHTS FOR BALANCE

Balance the Arm by adding weights to the Bucket. Load the weights evenly. Ensure that each weight is fully seated in the bucket.
Secure all wheels on the CS Base and Accessory Cart by using Wheel Chocks, locking the wheels, or using Jack Screws.



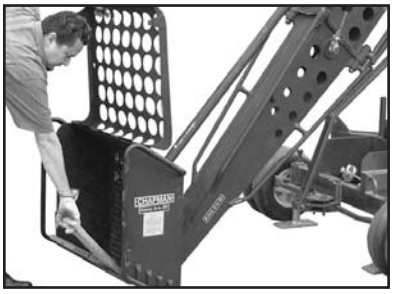
Continually check that the Lenny Arm is balanced. It should be easy to lift the Arm from its resting place on the Accessory Cart with just one finger. Adding weights to the bucket before they are needed for balance should be avoided. This would cause the Arm to float off the Accessory Cart.



THE NOSE SEGMENT

After all the forward sections have been attached to the Arm, you can attach the Nose Segment of the Lenny Arm.

Attach a Section Cable Bracket at the first section.



Additional Weights can again be added to the Bucket. Load the Weights evenly across the Bucket.

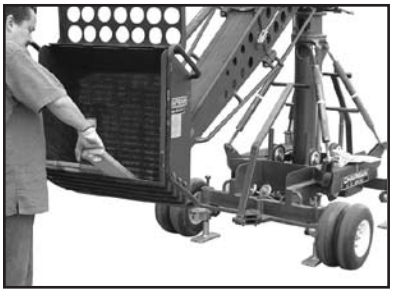
Remember! Use gloves when assembling and handling the Weights.

Use only enough weight to keep the Arm in a balanced condition.

THE NOSE SECTION

Attach the Nose in a down position. Insert rods and hand tighten the knurled knobs on each end of the rods.

Or attach the Nose in an up position. Insert rods and hand tighten the knurled knobs on each end of the rods.



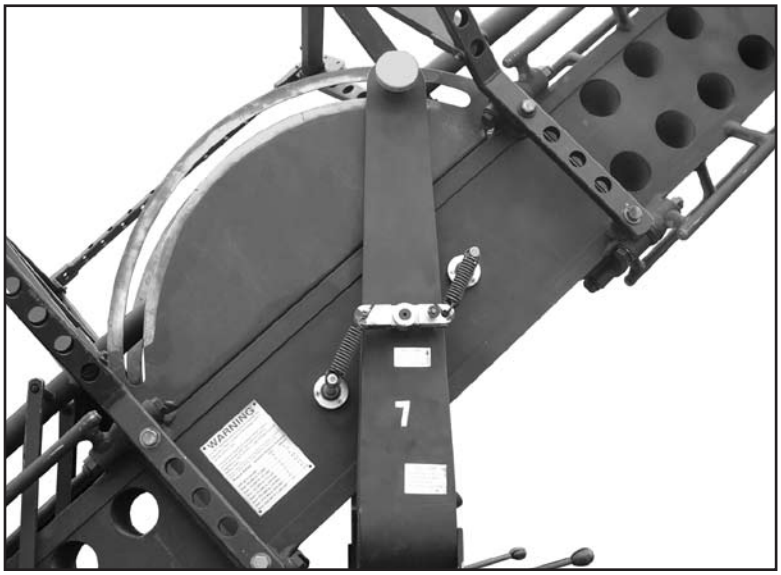
Again make sure the Arm is in balance by adding additional weights.

Remember! Use gloves when handling the weights. Ensure that the Base is secure when changing configurations.

THE SPRING FINE BALANCING SYSTEM

When using the Cable System, insert the Quick Release Pin in the hole on the spring bracket.

Be sure the Quick Release Pin is fully seated in the hole to engage the system.

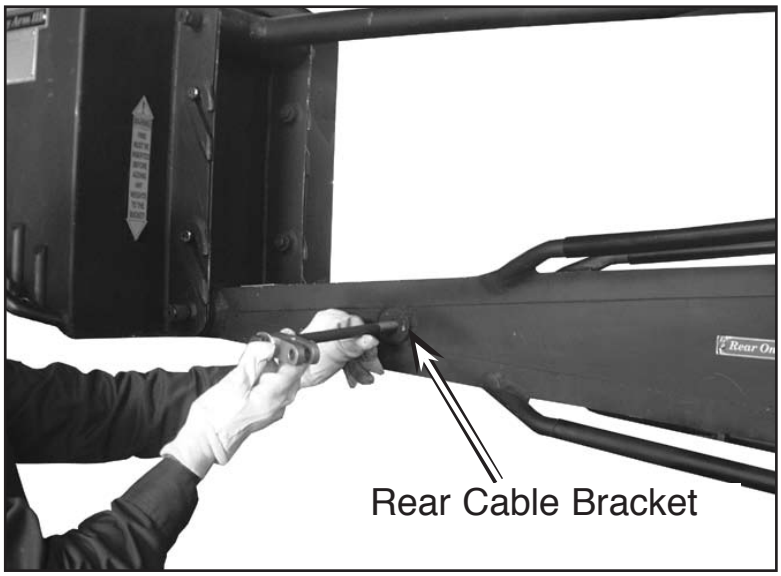


The Spring Fine Balancing System is used **ONLY** when the Cable System is used.

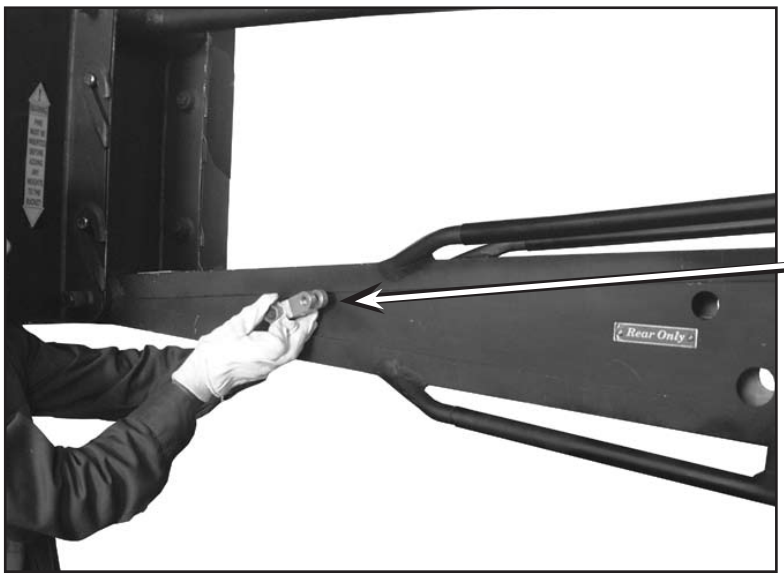
THE CABLE SYSTEM

Familiarize yourself with the Lenny Arm cable system. It may help if you lay out the cables on the ground under the Arm in their proper sequence.

If you will not be using the maximum length Arm, there will be cables which are not used.



Attach the Rear Cable Brackets on each side.



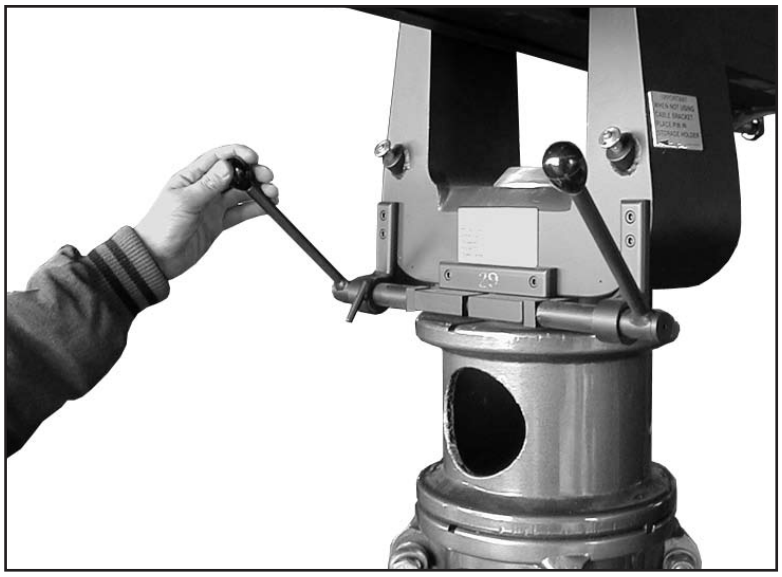
Place nuts on the Rear Cable bracket bolts.

THE REAR CABLE SYSTEM

Attach the Rear Cable at the Center Post Cable Bracket with the Quick Release Pin.

Attach the Rear Cable (the thicker cable) to the Rear Cable Bracket.

Tighten the Rear Cable at the turn buckle. Repeat for the other side of the Arm. Do not over tighten.



THE PAN BRAKE

The Pan Brake is used to Hold the Arm in place or to increase drag during a panning shot. It is not a Brake for stopping a panning movement.

THE AUXILIARY WEIGHT BUCKET

The Auxiliary Weight Bucket attaches to the top of the Standard Weight bucket. It allows the Arm to reach its maximum payload capacity.

Warning! When using the Auxiliary Weight Bucket, the Cable System is mandatory.

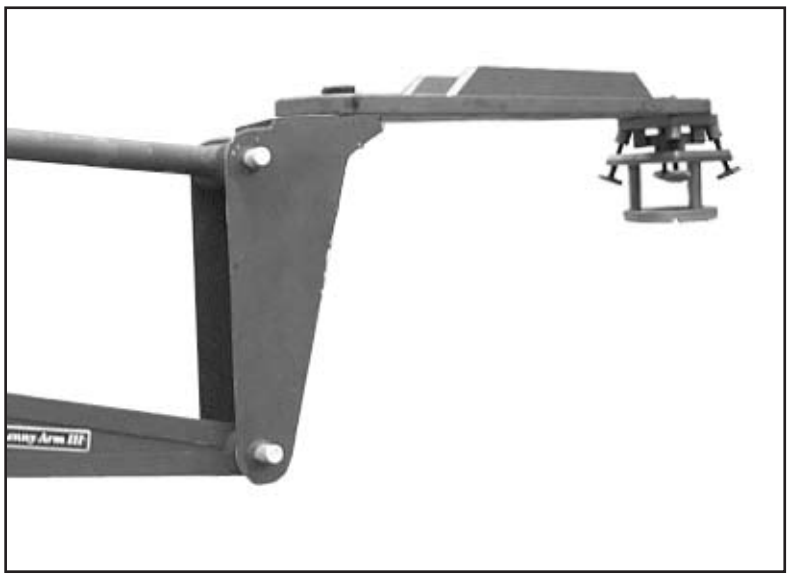
The Auxiliary Weight Bucket attaches **ONLY** to the 5 Wide Weight Bucket. It uses the same weights as the Standard Weight Bucket. Load the weights evenly across the Bucket.

CAMERA EXTENSIONS

Attaching a Camera Extension to the Nose Section is quick and easy.

Tighten the Bolt that secures the Camera Extension by hand. Then finish by tightening with a wrench.

Moderate torque is sufficient to ensure the rigidity of this mount.

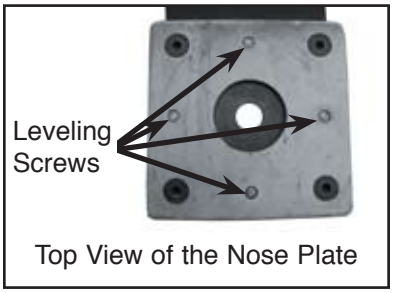


A variety of Camera Extensions are available.

A 4-Way Leveling Head may be attached to any Camera Extension in either an Upward or Downward Orientation.

BALANCED FREE HEAD TURRET with FLUID DRIVE

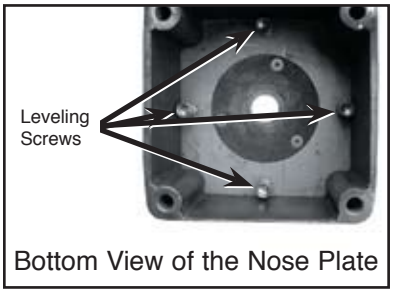
The Balanced Free Head Turret with Fluid Drive features adjustable Seat and Camera Mounts for optimal balance. When panning, the adjustable drag provides superior control and handling.



Top View of the Nose Plate

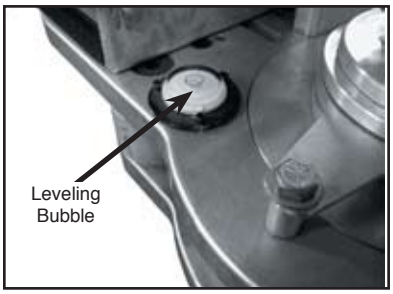
To Mount and Level the Turret, begin by making sure the Leveling Screws are flush with the Nose Plate. Attach the Turret onto the plate and leave the one inch Bolt slightly loose to make adjustments.

The weight of the person operating the Turret will determine which hole should be used when mounting the Seat.

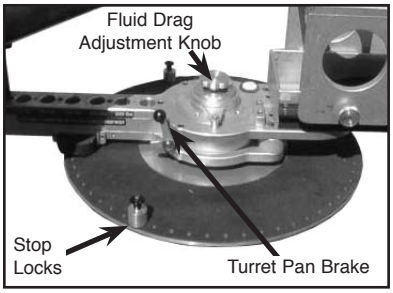


Bottom View of the Nose Plate

Tighten the Leveling Screws on the underside of the Nose Plate in pairs (opposite each other). This will level the Turret.



Check the Leveling Bubble after each set of adjustments. For fine tuning, slide the Camera Mount to the desired balanced condition.



The Fluid Drag Adjustment Knob controls the resistance when the Turret pans. Tighten for more drag and loosen for less drag.

The Turret Pan Brake is used for locking or securing a camera position.

The Stop Locks are removable and can be used to prevent the Turret from panning beyond a desired position. They may be locked anywhere in the 360 degree circle.

THE FILM TURRET

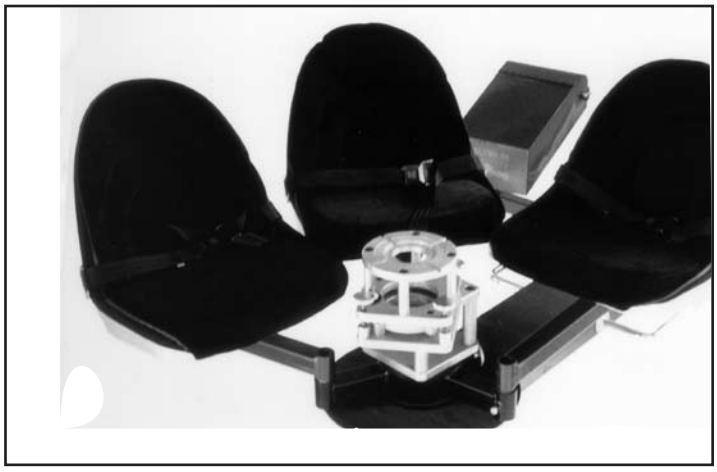
Attach the Straight Nose in a down position for manned operation. Rest the Arm on a block of wood or similar support. Insert the upper rod and hand tighten the knurled knobs on each end of the rod.

Tilt the Straight Nose to line up the holes for the lower rod. Insert the rod and hand tighten the knurled knobs on each end of the rod.

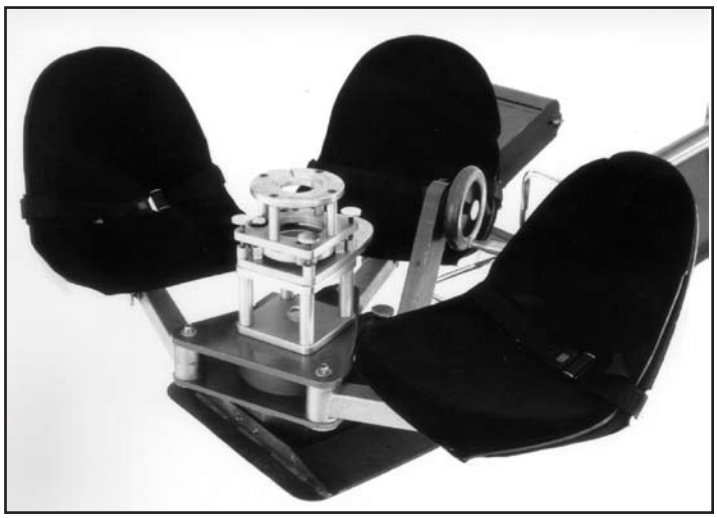
The modified lightweight Balanced Film Turret with Battery Holder may be used with the Straight Nose. It is capable of supporting two men and a camera.

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

Film (Hand-Operated) Turret - belted
Item # 3093

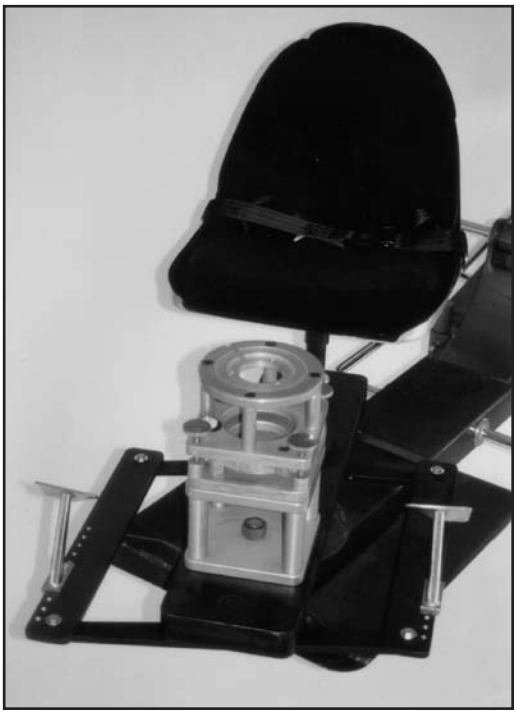


Free Head Turret (w/o Leveling Head)
Item # 3111



Film (Hand-Operated) Turret - geared
Item # 3091

Electric, Video/Film Turret
Item # 3094



TV (Foot-Operated) Turret
Item # 3101

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 47 MUST be attached.

1. 4861

MH = 10' 1" (3 m)
MR = 7' 3" (2.2 m)
MP = 800 lb. (363.6 kg)
BW = -44 lb. (-20 kg)
BAW = 583 lb. (265 kg)

MOW = 2,095 lb. (952.3 kg)
ROW = 853 lb. (387.7 kg)
BR = 1 : 1.00
PMH = 42" (1.1 m)
UW = 539 lb. (245 kg)

2. 4862

MH = 13' 10" (4.2 m)
MR = 12' 9" (3.9 m)
MP = 800 lb. (363.6 kg)
BW = 167 lb. (75.9 kg)
BAW = 811 lb. (368.6 kg)

MOW = 3,027 lb. (1,375.9 kg)
ROW = 1,155 lb. (525 kg)
BR = 1 : 1.77
PMH = 42" (1.1 m)
UW = 644 lb. (292.7 kg)

3. 4863

MH = 17' 10" (5.4 m)
MR = 18' 4" (5.6 m)
MP = 523 lb. (237.7 kg)
BW = 321 lb. (145.9 kg)
BAW = 1,057 lb. (480.5 kg)

MOW = 2,908 lb. (1,321.8 kg)
ROW = 1,530 lb. (695.5 kg)
BR = 1 : 2.54
PMH = 42" (1.1 m)
UW = 736 lb. (334.5 kg)

4. 4864

MH = 21' 9" (6.6 m)
MR = 23' 9" (7.2 m)
MP = 440 lb. (200 kg)
BW = 634 lb. (288.2 kg)
BAW = 1,460 lb. (663.6 kg)

MOW = 3,356 lb. (1,525.5 kg)
ROW = 2,041 lb. (927.7 kg)
BR = 1 : 3.31
PMH = 42" (1.1 m)
UW = 828 lb. (376.4 kg)

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

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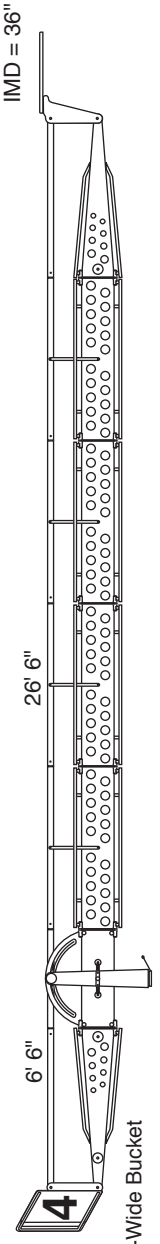
5. 4865

MH = 25' 7" (7.8 m)
MR = 29' 6" (9 m)
MP = 270 lb. (122.7 kg)
BW = 982 lb. (446.4 kg)
BAW = 1,902 lb. (864.5 kg)

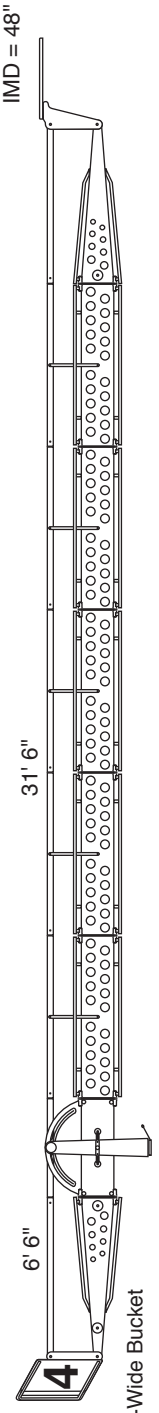
MOW = 3,275 lb. (1,488.6 kg)
ROW = 2,590 lb. (1,177.3 kg)
BR = 1 : 4.08
PMH = 42" (1.1 m)
UW = 920 lb. (418.2 kg)



6. 4866

MH = 29' 6" (9 m)
MR = 35' 6" (10.8 m)
MP = 138 lb. (62.7 kg)
BW = 1,418 lb. (644.5 kg)
BAW = 2,430 lb. (1,104.5 kg)

MOW = 3,240 lb. (1,472.3 kg)
ROW = 3,213 lb. (1,460.5 kg)
BR = 1 : 4.85
PMH = 42" (1.1 m)
UW = 1,012 lb. (460 kg)

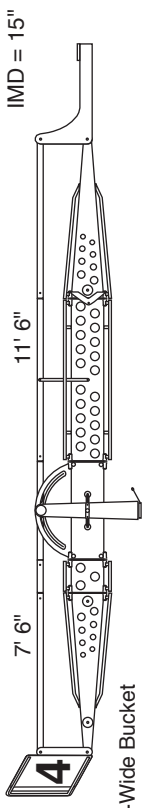


7. 4867

MH = 14' 8" (4.5 m)
MR = 12' 9" (3.9 m)
MP = 800 lb. (363.6 kg)
BW = 97 lb. (44.1 kg)
BAW = 778 lb. (353.6 kg)

MOW = 2,805 lb. (1,275 kg)
ROW = 1,120 lb. (509.1 kg)
BR = 1 : 1.53
PMH = 52" (1.3 m)
UW = 680 lb. (309.3 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 48" long	2 - 1/4" Blue Cables - 46" long

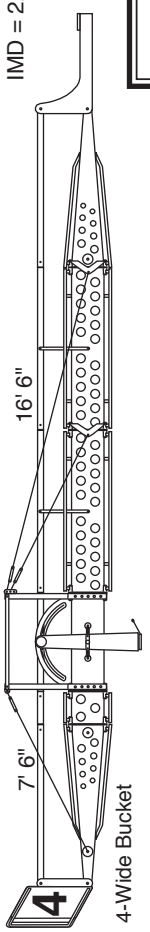


NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 47 MUST be attached.

8. 4868

MH = 18' 6" (5.6 m)
MR = 18' 4" (5.6 m)
MP = 800 lb. (363.6 kg)
BW = 244 lb. (110.9 kg)
BAW = 1,017 lb. (462.3 kg)

MOW = 3,577 lb. (1,625.9 kg)
ROW = 1,449 lb. (658.6 kg)
BR = 1 : 2.20
PMH = 52" (1.3 m)
UW = 772 lb. (351.4 kg)



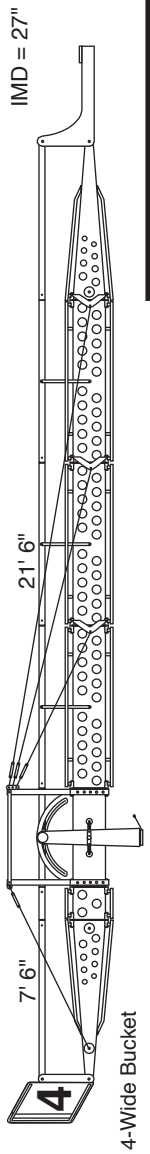
4-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 48" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long

9. 4869

MH = 22' 6" (6.9 m)
MR = 23' 9" (7.2 m)
MP = 545 lb. (247.7 kg)
BW = 515 lb. (234.1 kg)
BAW = 1,380 lb. (627.3 kg)

MOW = 3,489 lb. (1,585.9 kg)
ROW = 1,901 lb. (864.1 kg)
BR = 1 : 2.87
PMH = 52" (1.3 m)
UW = 864 lb. (392.9 kg)



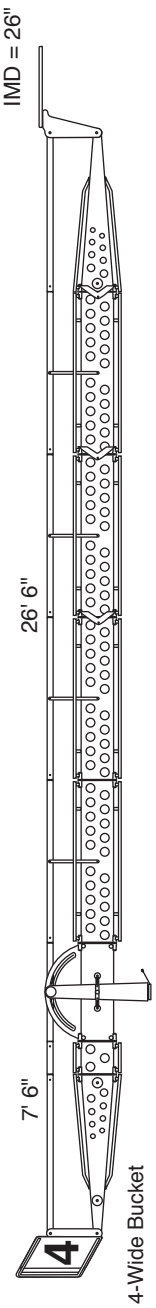
4-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long

10. 4870

MH = 26' 5" (8.1 m)
MR = 28' 8" (8.7 m)
MP = 358 lb. (162.7 kg)
BW = 817 lb. (371.4 kg)
BAW = 1,774 lb. (806.4 kg)

MOW = 3,395 lb. (1,543.2 kg)
ROW = 2,386 lb. (1,084.5 kg)
BR = 1 : 3.53
PMH = 52 " (1.3 m)
UW = 958 lb. (435.5 kg)



4-Wide Bucket

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

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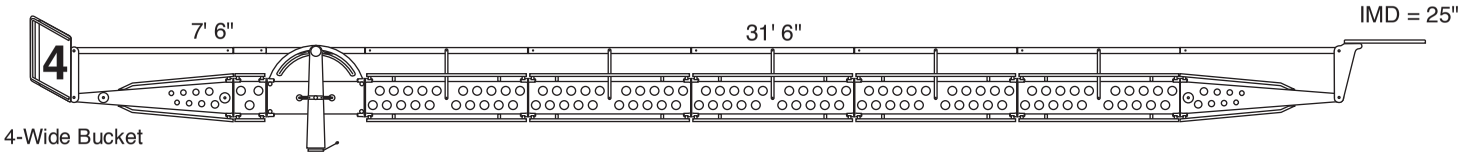
11. 4871

MH = 30' 3" (9.2 m)
MR = 33' 7" (10.2 m)
MP = 210 lb. (95.5 kg)
BW = 1,195 lb. (543.2 kg)
BAW = 2,244 lb. (1,020 kg)

MOW = 3,336 lb. (1,516.4 kg)
ROW = 2,947 lb. (1,339.5 kg)
BR = 1 : 4.20
PMH = 52 " (1.3 m)
UW = 1,050 lb. (477.3 kg)

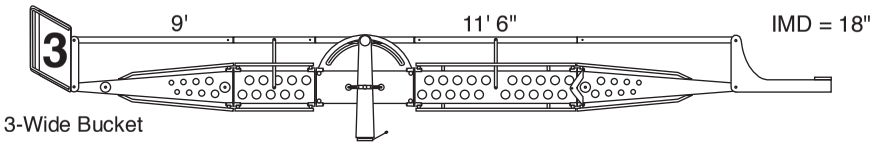


4-Wide Bucket

12. 4872

MH = 15' 10" (4.8 m)
MR = 13' (4 m)
MP = 800 lb. (363.6 kg)
BW = 2 lb. (.91 kg)
BAW = 703 lb. (319.5 kg)

MOW = 2,527 lb. (1,148.6 kg)
ROW = 1,014 lb. (460.9 kg)
BR = 1 : 1.28
PMH = 66 " (1.7 m)
UW = 700 lb. (318.2 kg)



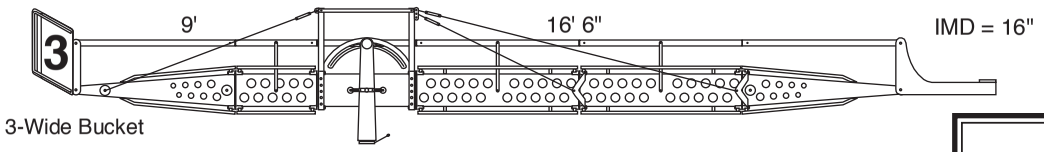
3-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long

13. 4873

MH = 19' 9" (6 m)
MR = 17' 10" (5.4 m)
MP = 800 lb. (363.6 kg)
BW = 164 lb. (74.5 kg)
BAW = 956 lb. (434.5 kg)

MOW = 3,222 lb. (1,464.5 kg)
ROW = 1,334 lb. (606.4 kg)
BR = 1 : 1.83
PMH = 66" (1.7 m)
UW = 792 lb. (360 kg)



3-Wide Bucket

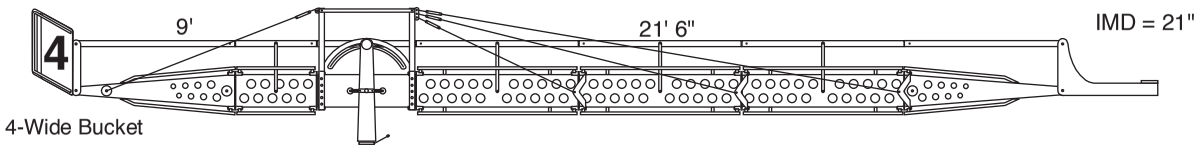
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long

14. 4874

MH = 23' 7" (7.2 m)
MR = 23' 3" (7.1 m)
MP = 700 lb. (318.2 kg)
BW = 390 lb. (177.3 kg)
BAW = 1,275 lb. (579.5 kg)

MOW = 3,650 lb. (1,659.1 kg)
ROW = 1,734 lb. (788.2 kg)
BR = 1 : 2.39
PMH = 66" (1.7 m)
UW = 884 lb. (401.8 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long



4-Wide Bucket

Beyond 600 lbs. Payload (MP) Cable System is Recommended for Best Performance.

15. 4875

MH = 27' 6" (8.4 m)
MR = 28' 8" (8.7 m)
MP = 720 lb. (327.3 kg)
BW = 623 lb. (283.2 kg)
BAW = 1,616 lb. (734.5 kg)

MOW = 4,455 lb. (2,025 kg)
ROW = 2,150 lb. (977.3 kg)
BR = 1 : 2.94
PMH = 66" (1.7 m)
UW = 993 lb. (451.4 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 2 - 1/4" Red Cables - 5' long

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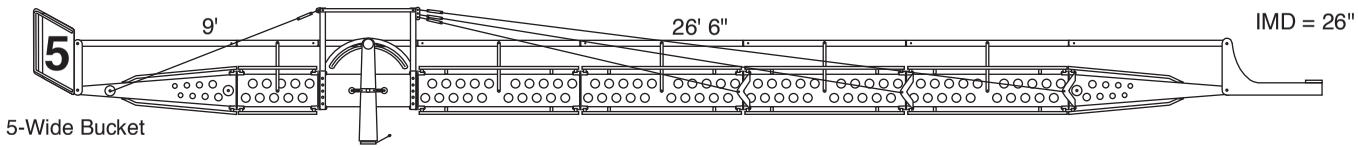


5-Wide Bucket

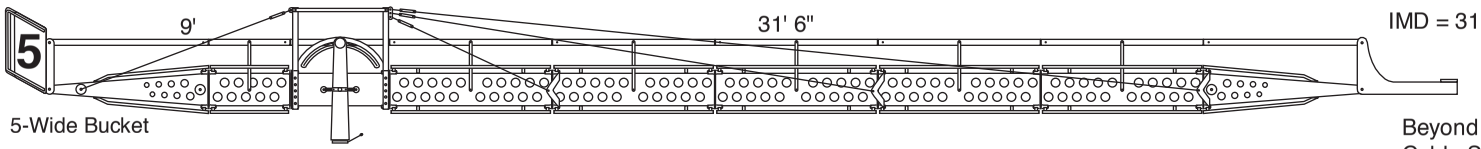
Beyond 550 lbs. Payload (MP) Cable System is Recommended for Best Performance.

16. 4876

MH = 31' 5" (9.6 m)
MR = 34' 1" (10.4 m)
MP = 517 lb. (235 kg)
BW = 940 lb. (427.3 kg)
BAW = 2,025 lb. (920.5 kg)

MOW = 4,350 lb. (1,977.3 kg)
ROW = 2,633 lb. (1,196.8 kg)
BR = 1 : 3.50
PMH = 66" (1.7 m)
UW = 1,085 lb. (493.2 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 2 - 1/4" White Cables - 5' long 4 - 1/4" Red Cables - 5' long



5-Wide Bucket

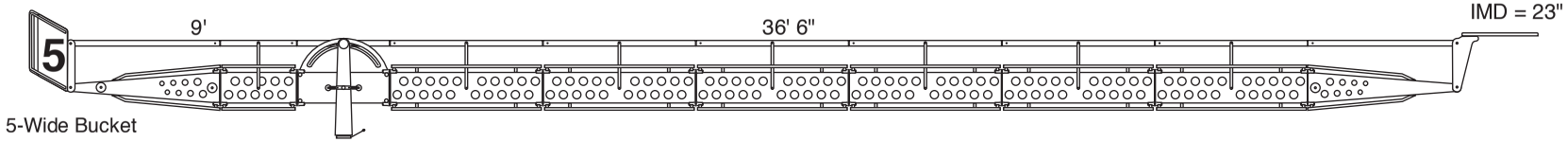
Beyond 400 lbs. Payload (MP) Cable System is Recommended for Best Performance.

17. 4877

MH = 35' 4" (10.8 m)
MR = 38' 5" (11.7 m)
MP = 350 lb. (159.1 kg)
BW = 1,305 lb. (593.2 kg)
BAW = 2,482 lb. (1,128.2 kg)

MOW = 4,253 lb. (1,933.2 kg)
ROW = 3,165 lb. (1,438.6 kg)
BR = 1 : 4.06
PMH = 66" (1.7 m)
UW = 1,177 lb. (535 kg)

Beyond 230 lbs. Payload (MP) Cable System is Recommended for Best Performance.



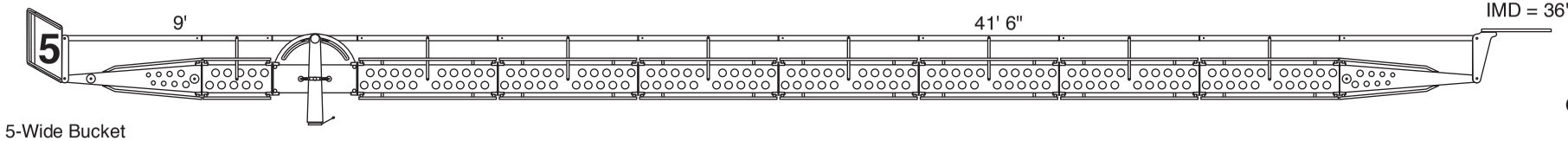
5-Wide Bucket

18. 4878

MH = 39' 3" (12 m)
MR = 44' 6" (13.6 m)
MP = 220 lb. (100 kg)
BW = 1,723 lb. (783.2 kg)
BAW = 2,995 lb. (1,211.4 kg)

MOW = 4,230 lb. (1,922.7 kg)
ROW = 3,752 lb. (1,705.5 kg)
BR = 1 : 4.61
PMH = 66" (1.7 m)
UW = 1,272 lb. (578.2 kg)

Beyond 140 lbs. Payload (MP) Cable System is Recommended for Best Performance.

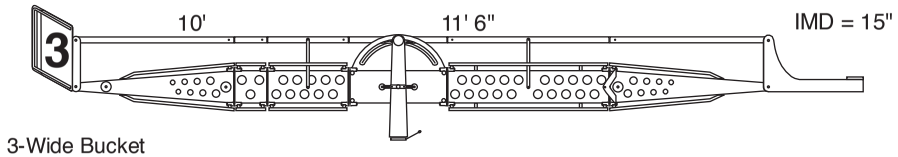


5-Wide Bucket

19. 4879

MH = 16' 8" (5.1 m)
MR = 12' 9" (3.9 m)
MP = 800 lb. (363.6 kg)
BW = -34 lb. (-15.5 kg)
BAW = 767 lb. (348.6 kg)

MOW = 2,424 lb. (1,101.8 kg)
ROW = 1,057 lb. (480.5 kg)
BR = 1 : 1.15
PMH = 75 " (1.9 m)
UW = 737 lb. (335 kg)



3-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 46" long

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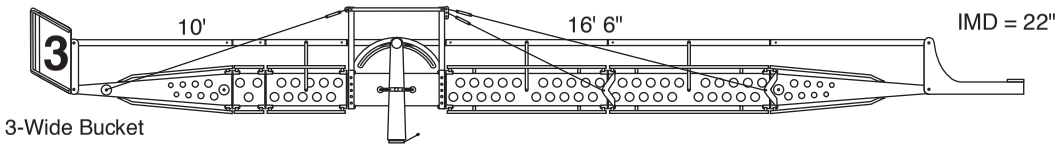
20. 4880

MH = 20' 6" (6.3 m)
MR = 18' 4" (5.6 m)
MP = 800 lb. (363.6 kg)
BW = 113 lb. (51.4 kg)
BAW = 943 lb. (428.6 kg)

MOW = 3,063 lb. (1,392.3 kg)
ROW = 1,305 lb. (593.2 kg)
BR = 1 : 1.65
PMH = 75 " (1.9 m)
UW = 830 lb. (377.3 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long



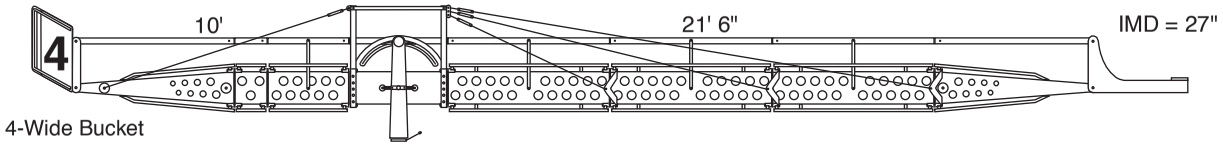
3-Wide Bucket

21. 4881

MH = 24' 5" (7.4 m)
MR = 23' 9" (7.2 m)
MP = 800 lb. (363.6 kg)
BW = 316 lb. (143.6 kg)
BAW = 1,238 lb. (562.7 kg)

MOW = 3,758 lb. (1,708.2 kg)
ROW = 1,664 lb. (756.4 kg)
BR = 1 : 2.15
PMH = 75 " (1.9 m)
UW = 922 lb. (419.1 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long



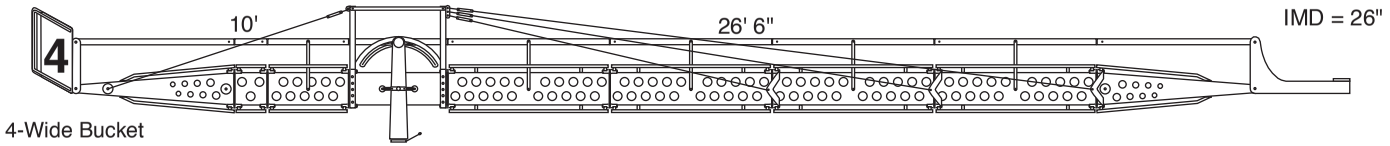
4-Wide Bucket

22. 4882

MH = 28' 4" (8.6 m)
MR = 28' 8" (8.7 m)
MP = 584 lb. (246.4 kg)
BW = 542 lb. (259.1 kg)
BAW = 1,553 lb. (705.9 kg)

MOW = 3,685 lb. (1,675 kg)
ROW = 2,046 lb. (930 kg)
BR = 1 : 2.65
PMH = 75 " (1.9 m)
UW = 1,011 lb. (459.6 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 2 - 1/4" Red Cables - 5' long

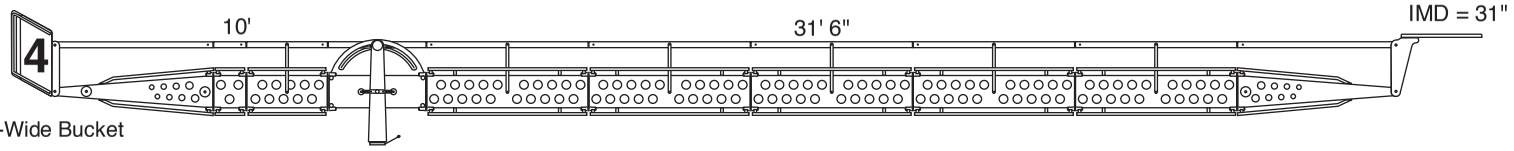


4-Wide Bucket

23. 4883

MH = 32' 2" (9.8 m)
MR = 34' 1" (10.4 m)
MP = 400 lb. (181.8 kg)
BW = 825 lb. (375 kg)
BAW = 1,928 lb. (876.4 kg)

MOW = 3,585 lb. (1,629.5 kg)
ROW = 2,489 lb. (1,131.4 kg)
BR = 1 : 3.15
PMH = 75 " (1.9 m)
UW = 1,103 lb. (501.4 kg)

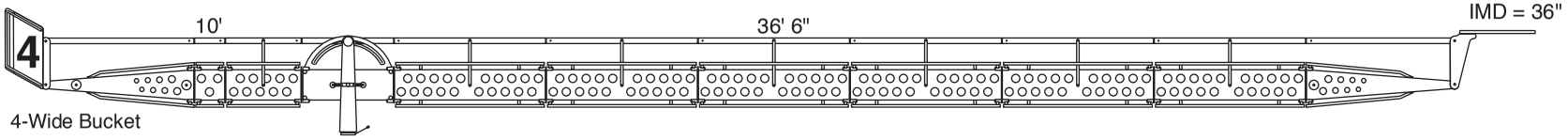


24. 4884

MH = 36' 1" (11.2 m)
MR = 39' 6" (12.1 m)
MP = 256 lb. (116.4 kg)
BW = 1,156 lb. (525.5 kg)
BAW = 2,351 lb. (1,068.6 kg)

MOW = 3,541 lb. (1,609.5 kg)
ROW = 2,979 lb. (1,354.1 kg)
BR = 1 : 3.65
PMH = 75 " (1.9 m)
UW = 1,195 lb. (543.2 kg)

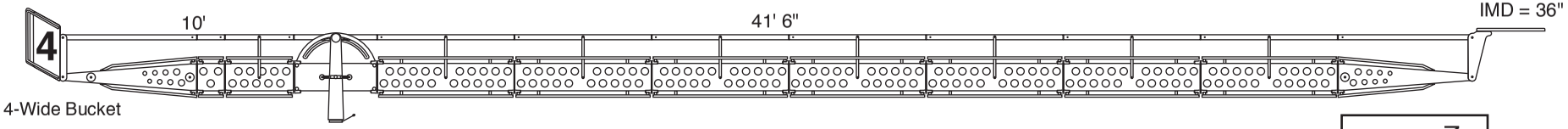
Beyond 145 lbs. Payload (MP) Cable System is Recommended for Best Performance.



25. 4885

MH = 40' (10 m)
MR = 44' 6" (13.6 m)
MP = 125 lb. (56.8 kg)
BW = 1,558 lb. (708.2 kg)
BAW = 2,845 lb. (1,293.2 kg)

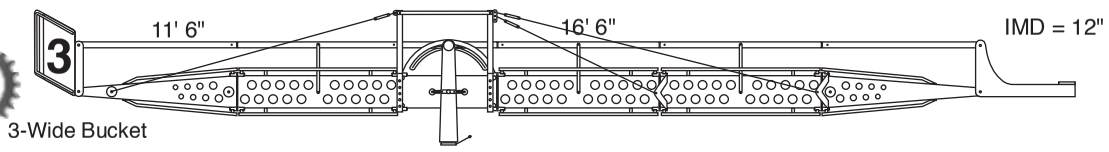
MOW = 3,489 lb. (1,585.9 kg)
ROW = 3,540 lb. (1,609.1 kg)
BR = 1 : 4.15
PMH = 75 " (1.9 m)
UW = 1,287 lb. (585 kg)



26. 4886

MH = 21' 8" (6.6 m)
MR = 17' 6" (5.3 m)
MP = 800 lb. (364 kg)
BW = 83 lb. (38 kg)
BAW = 898 lb. (408 kg)

MOW = 2,850 lb. (1,295.5 kg)
ROW = 1,228 lb. (558.2 kg)
BR = 1 : 1.43
PMH = 89 " (2.3 m)
UW = 815 lb. (370.5 kg)



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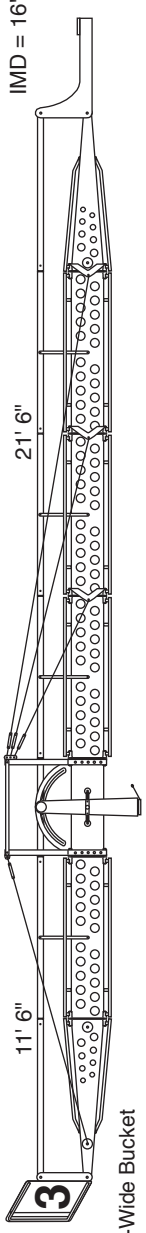
27. 4887

MH = 25' 7" (7.8 m)
MR = 22' 10" (6.9 m)
MP = 743 lb. (338 kg)
BW = 260 lb. (118 kg)
BAW = 1,167 lb. (531 kg)

MOW = 3,300 lb. (1,500 kg)
ROW = 1,555 lb. (707 kg)
BR = 1 : 1.87
PMH = 89 " (2.3 m)
UW = 907 lb. (412.3 kg)

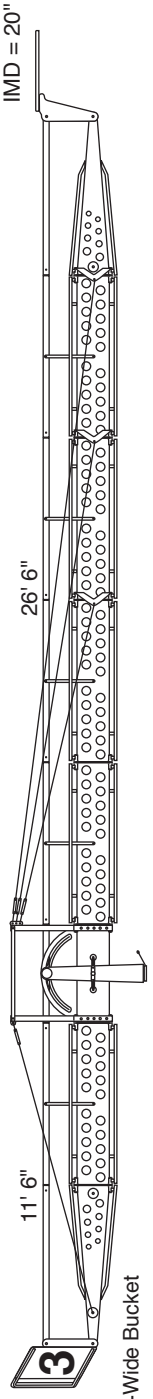


CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 30" long	2 - 1/4" Blue Cables - 46' long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" White Cables - 13' 8" long

28. 4888

MH = 29' 6" (9 m)
MR = 28' 2" (8.6 m)
MP = 513 lb. (233.2 kg)
BW = 470 lb. (213.6 kg)
BAW = 1,470 lb. (668.2 kg)

MOW = 3,163 lb. (1,437.7 kg)
ROW = 1,915 lb. (870.5 kg)
BR = 1 : 2.30
PMH = 89 " (2.3 m)
UW = 1,000 lb. (454.5 kg)

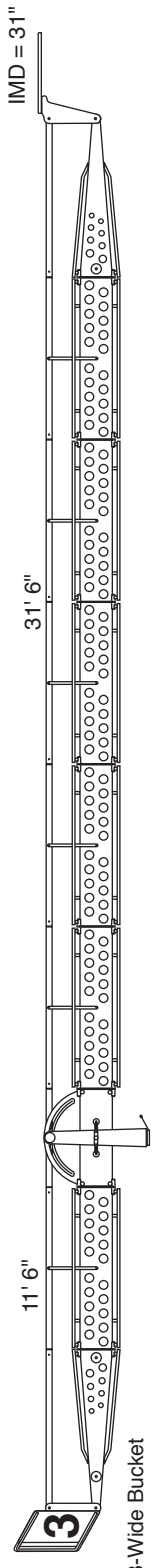


CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 30" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 2 - 1/4" Red Cables - 5' long

29. 4889

MH = 33' 4" (10.2 m)
MR = 34' 1" (10.4 m)
MP = 345 lb. (156.8 kg)
BW = 703 lb. (319.5 kg)
BAW = 1,795 lb. (815.9 kg)

MOW = 3,085 lb. (1,402.3 kg)
ROW = 2,300 lb. (1,045.5 kg)
BR = 1 : 2.74
PMH = 89 " (2.3 m)
UW = 1,092 lb. (496.4 kg)

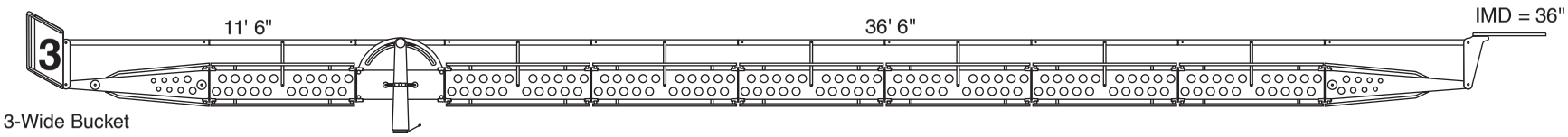


The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

30. 4890

MH = 37' 3" (11.4 m)
MR = 39' 6" (12 m)
MP = 208 lb. (94.5 kg)
BW = 990 lb. (450 kg)
BAW = 2,174 lb.(988.2 kg)

MOW = 3,041 lb.(1,382.3 kg)
ROW = 2,737 lb.(1,244.1 kg)
BR = 1 : 3.17
PMH = 89 " (2.3 m)
UW = 1,184 lb. (538.2 kg)

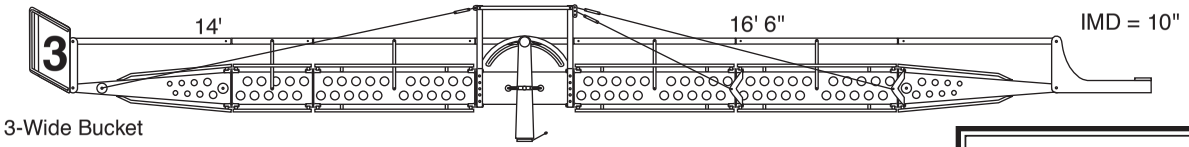


3-Wide Bucket

31. 4891

MH = 23' 7" (7.2 m)
MR = 17' 4" (5.3 m)
MP = 800 lb. (363.6 kg)
BW = 11 lb. (.5 kg)
BAW = 881 lb. (400.5 kg)

MOW = 2,625 lb. (1,193.2 kg)
ROW = 1,175 lb. (534.1 kg)
BR = 1 : 1.18
PMH = 9' 3" (2.8 m)
UW = 870 lb. (395.5 kg)



3-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 5' long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long

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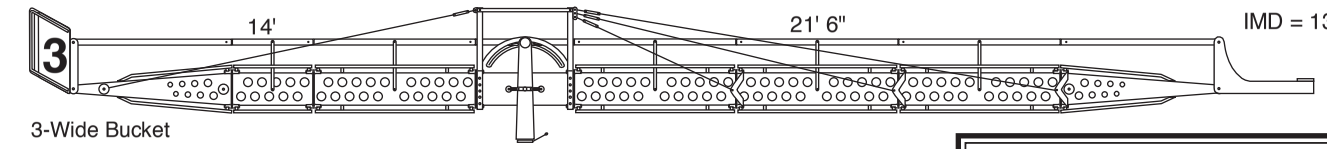
32. 4892

MH = 27' 7" (8.4 m)
MR = 22' 7" (6.9 m)
MP = 800 lb. (363.6 kg)
BW = 156 lb. (70.9 kg)
BAW = 1,118 lb. (508.2 kg)

MOW = 3,150 lb. (1,431.8 kg)
ROW = 1,461 lb. (664.1 kg)
BR = 1 : 1.54
PMH = 9' 3" (2.8 m)
UW = 962 lb. (437.3 kg)

Beyond 550 lbs. Payload (MP) Cable System is Recommended for Best Performance.



3-Wide Bucket

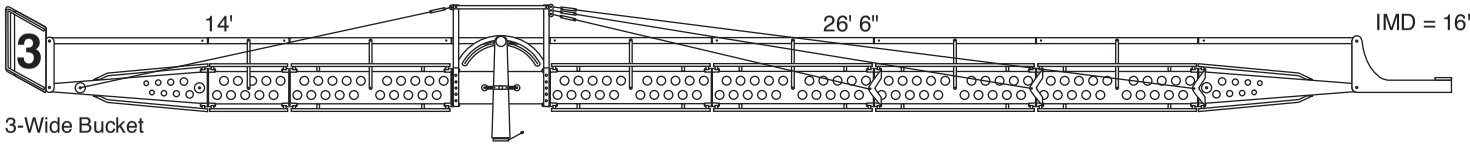
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 5' long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long

33. 4893

MH = 31' 5" (9.6 m)
MR = 27' 10" (8.5 m)
MP = 700 lb. (318.2 kg)
BW = 328 lb. (149.1 kg)
BAW = 1,382 lb. (628.2 kg)

MOW = 3,405 lb. (1,547.7 kg)
ROW = 1,775 lb. (806.8 kg)
BR = 1 : 1.89
PMH = 9' 3" (2.8 m)
UW = 1,054 lb. (479.1 kg)

Beyond 450 lbs. Payload (MP) Cable System is Recommended for Best Performance.



3-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long 2 - 3/8" Yellow Cables - 5' long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long

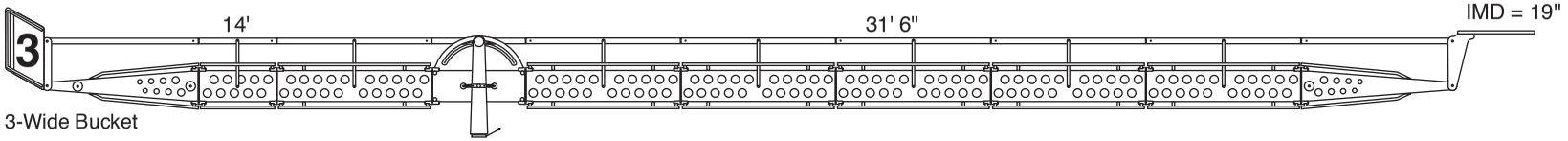
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 47 MUST be attached.

34. 4894

MH = 35' 4" (10.8 m)
MR = 33' 1" (10 m)
MP = 487 lb. (221.4 kg)
BW = 553 lb. (251.4 kg)
BAW = 1,699 lb. (772.3 kg)

MOW = 3,282 lb. (1,491.8 kg)
ROW = 2,140 lb. (972.7 kg)
BR = 1 : 2.25
PMH = 9' 3" (2.8 m)
UW = 1,146 lb. (520.9 kg)

Beyond 330 lbs. Payload (MP) Cable System is Recommended for Best Performance.



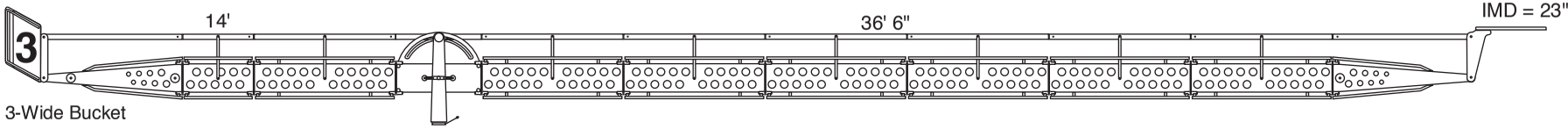
3-Wide Bucket

35. 4895

MH = 39' 3" (12 m)
MR = 38' 5" (11.7 m)
MP = 328 lb. (149.1 kg)
BW = 796 lb. (361.8 kg)
BAW = 2,034 lb. (924.5 kg)

MOW = 3,220 lb. (1,463.6 kg)
ROW = 2,520 lb. (1,145.5 kg)
BR = 1 : 2.61
PMH = 9' 3" (2.8 m)
UW = 1,238 lb. (562.7 kg)

Beyond 165 lbs. Payload (MP) Cable System is Recommended for Best Performance.



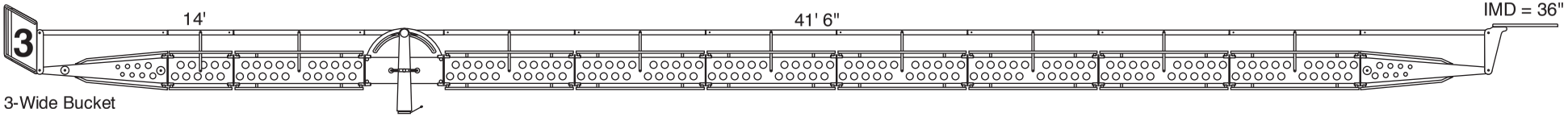
3-Wide Bucket

36. 4896

MH = 43' 3" (13.2 m)
MR = 44' 6" (13.6 m)
MP = 203 lb. (92.3 kg)
BW = 1,025 lb. (465.9 kg)
BAW = 2,355 lb. (1,070.5 kg)

MOW = 3,160 lb. (1,436.4 kg)
ROW = 2,890 lb. (1,313.6 kg)
BR = 1 : 2.96
PMH = 9' 3" (2.8 m)
UW = 1,330 lb. (604.5 kg)

Beyond 125 lbs. Payload (MP)
Cable System is Recommended
for Best Performance.



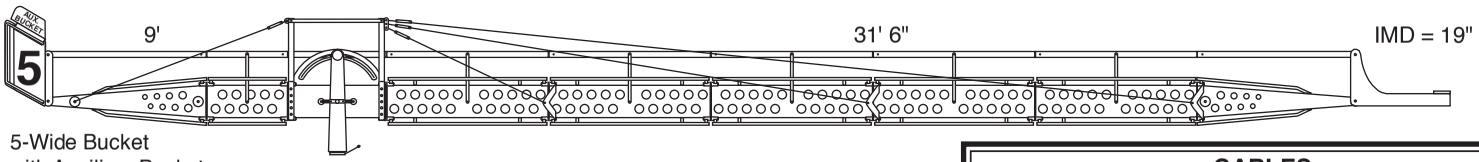
3-Wide Bucket

37. 4897

MH = 31' 5" (9.5 m)
MR = 34' 1" (10.4 m)
MP = 750 lb. (340.9 kg)
BW = 935 lb. (425 kg)
BAW = 2,123 lb. (965 kg)

MOW = 5,498 lb. (2,499.1 kg)
ROW = 2,735 lb. (1,243.2 kg)
BR = 1 : 3.5
PMH = 66" (1.7 m)
UW = 1,188 lb (540 kg)

When using the Auxiliary Bucket
use of the Cable System is Mandatory.
If not using the Auxiliary Bucket, see
Configuration #16 Data.



5-Wide Bucket
with Auxiliary Bucket

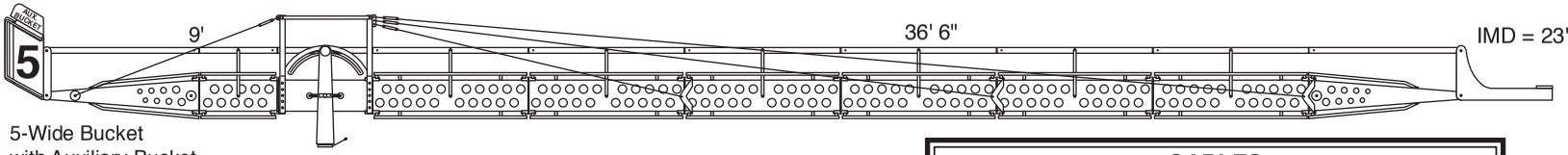
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 2 - 1/4" White Cables - 5' long 2 - 1/4" Red Cables - 5' long

38. 4738

MH = 35' 4" (10.8 m)
MR = 38' 6" (11.7 m)
MP = 550 lb. (250 kg)
BW = 1,341 lb. (609.5 kg)
BAW = 2,626 lb.(1,194 kg)

MOW = 5,409 lb.(2,459 kg)
ROW = 3,309 lb (1,504.1 kg)
BR = 1 :4.06
PMH = 66" (1.7 m)
UW = 1,285 lb. (584 kg)

When using the Auxiliary Bucket
use of the Cable System is Mandatory.
If not using the Auxiliary Bucket, see
Configuration #17 Data.



5-Wide Bucket
with Auxiliary Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 4 - 1/4" White Cables - 5' long 6 - 1/4" Red Cables - 5' long 2 - 1/4" Blue Cables - 5' long

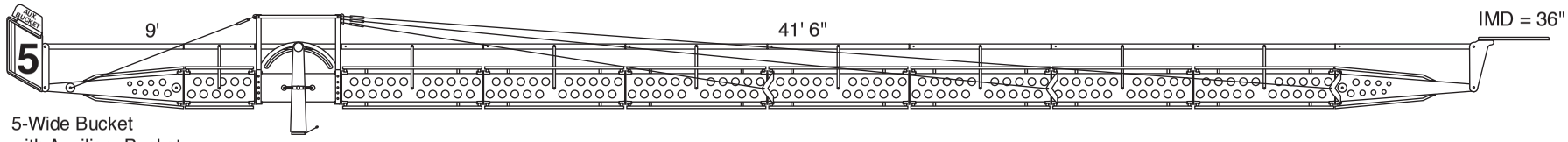
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 53 MUST be attached.

39. 4739

MH = 39' 3" (11.9 m)
MR = 44' 6" (13.6 m)
MP = 391 lb. (177.7 kg)
BW = 1,774 lb. (806.4 kg)
BAW = 3,156 lb. (1,435 kg)

MOW = 5,350 lb. (2,432 kg)
ROW = 3,913 lb. (1,779 kg)
BR = 1 : 4.61
PMH = 66" (1.7 m)
UW = 1,382 lb (628 kg)

When using the Auxiliary Bucket use of the Cable System is Mandatory. If not using the Auxiliary Bucket, see Configuration #18 Data.



5-Wide Bucket
with Auxiliary Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 4 - 1/4" Blue Cables - 5' long 6 - 1/4" White Cables - 5' long 8 - 1/4" Red Cables - 5' long

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559.

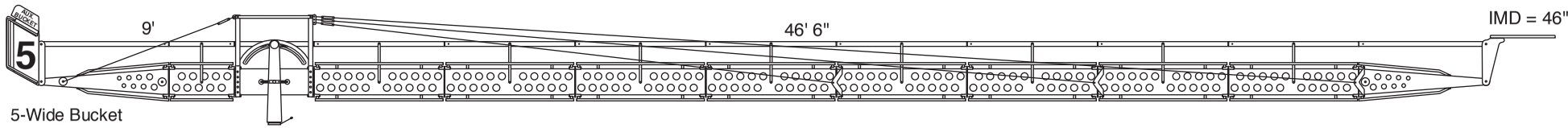
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 47 MUST be attached.

40. 4740

MH = 43' 3" (13.2 m)
MR = 50' 4" (15.3 m)
MP = 250 lb. (113.6 kg)
BW = 2,255 lb. (1,025 kg)
BAW = 3,718 lb. (1,690 kg)

MOW = 5,262 lb. (2,391.8 kg)
ROW = 4,551 lb. (2,068.6 kg)
BR = 1 : 5.17
PMH = 66" (1.7 m)
UW = 1,463 lb (665 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

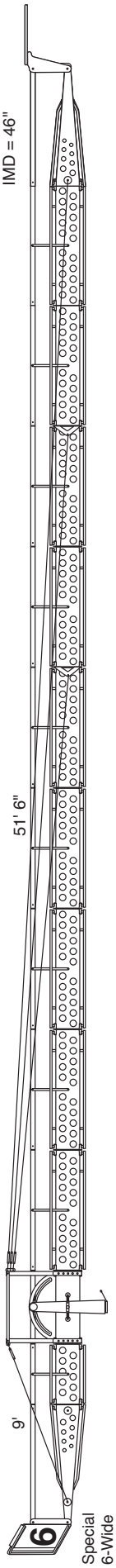


5-Wide Bucket
with Auxiliary Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 6 - 1/4" Blue Cables - 5' long 8 - 1/4" White Cables - 5' long 10 - 1/4" Red Cables - 5' long

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 47 MUST be attached.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 64" long	2 - 1/4" Blue Cables - 46" long 2 - 1/4" White Cables - 8' 7" long 2 - 1/4" Red Cables - 13' 8" long 8 - 1/4" Blue Cables - 5' long 10 - 1/4" White Cables - 5' long 12 - 1/4" Red Cables - 5' long



⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

MH = 47' 3" (14.4 m)
MR = 55' 4" (16.9 m)
MP = 147 lb. (66.7 kg)
BW = 2,980.5 lb. (1,352 kg)
BAW = 3,833 lb. (1,739 kg)

MOW = 5,174 lb. (2,347 kg)
ROW = 5,189 lb. (2,354 kg)
BR = 1 : 5.72
PMH = 66" (1.7 m)
UW = 2,280 lb (1,034 kg)

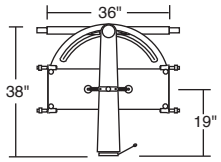
41.
4741

Parts and Accessories

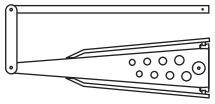
All weights are based on scale accuracy of 2%

Cable System: 71 - 86 lb.
Bucket Seat: 17 lb. (7.7 kg)
Balanced TV (Foot-Operated) Turret:
Alum. - 64 lb. (29.1 kg)
Steel - 138 lb. (62.7 kg)
Balanced Film (Hand-Operated) Turret:
Alum. w/3 arms - 117 lb. (53.2 kg)
Steel w/3 arms - 138 lb. (62.7 kg)
Balanced Free Head Turret with Fluid Drive: 32 lb. (14.5 kg)
(Balanced turrets eliminate arm twist.)

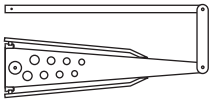
Hybrid Leveling Head: 10.5 lb. (4.8 kg)



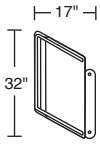
Center Post: 243 lb. (110.5 kg)
w/ Spring Fine Balancing System (Pat. Pend.)



5 Ft. Bucket Segment:
82 lb. (37.3 kg)



5 Ft. Nose Segment:
82 lb. (37.3 kg)

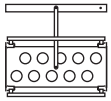


Buckets: 3 Wide - 88 lb. (40 kg)
60 Weights = 1,650 lb. (759.1 kg)
4 Wide - 101 lb. (45.9 kg)
76 Weights = 2,090 lb. (950 kg)
5 Wide - 122 lb. (55 kg)
100 Weights = 2,750 lb. (1,250 kg)

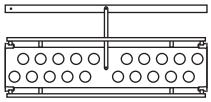
Auxiliary 5 Wide Bucket: 31 lb. (14 kg)
Capacity: 30 Weights = 825 lb. (375 kg)

1 Ft. Section: 37 lb. (16.8 kg)

2.5 Ft. Section: 55 lb. (25 kg)



5 Ft. Section: 92 lb. (41.8 kg)

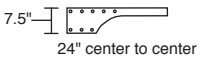


Weight: 27.5 lb. (12.5 kg)

Remote Nose: 17 lb. (7.7 kg)

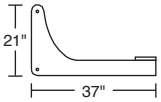
Camera Plate (24" center to center)
+ Leveling Head: 26.5 lb. (12 kg)

Lenny Arm III XR (extra rigid)
Camera Extension: 40 lb. (18 kg)



Note: In order to achieve optimal balance, ideal distance from nose bearings to camera mount (IMD) will differ from arm to arm.

Straight Nose: 68 lb. (30.6 kg)
(Manned Use) Turret of choice may be used.
DO NOT USE NOSE INVERTED FOR MANNED USE.



Terms and Definitions

MH = Maximum Height. (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.) Note: In manned configurations add 2 to 4 feet to MH.

MR = Maximum Reach. (As measured from center post to ideal camera position.)

MP = Maximum Payload.

BW = Bucket Weight for balanced arm. (No payload.)

BAW = Balanced Arm Weight. (No payload.)

MOW = Maximum Operating Weight of unit. (With maximum payload and a full bucket.)

ROW = Remote Operational Weight of unit. (With 135 lb. payload.)

BR = Balance Ratio. (Determines the weight required in bucket to balance a payload after arm has been balanced.)

PMH = Post Mount Height needed to obtain maximum height on level ground. (Do not exceed.)

UW = Unit Weight.

IMD = Ideal camera Mount Distance. (From bearing to camera mount.)

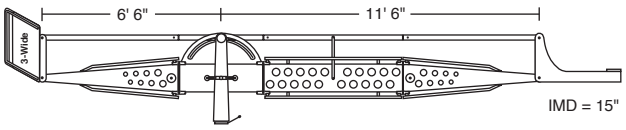
BAW + (BR + 1) X Nose Load = Operating Weight for any given nose load.

= These configurations can be considered for manned use. Check payload.

In General: For Manned use, we recommend the Cable System for best performance.

Ex. Figure Diagram lengths are measured from bearing to bearing. All diagrams are drawn to scale.

MH = 13' 10" (4.2 m)
MR = 12' 9" (3.9 m)
MP = 800 lb. (363.6 kg)
BW = 167 lb. (75.9 kg)
BAW = 811 lb. (368.6 kg)
MOW = 3,027 lb. (1,375.9 kg)
ROW = 1,155 lb. (525 kg)
BR = 1 : 1.77
PMH = 42" (1.1 m)
UW = 644 lb. (292.7 kg)



The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

NOTE: If any part of this manual is faxed or transmitted to a client, this page of warnings MUST be attached.

WARNING: It is not permitted and is unlawful to operate this equipment within 10 feet of High-Voltage Lines of 50,000 volts or less. For minimum clearances of High-Voltage Lines in excess of 50,000 volts, see California Code of Regulations, Title 8, Article 37, High-Voltage Electrical Safety Orders.

WARNING: Keep the crane arm balanced at all times. Avoid sudden disembarking of personnel or removing equipment.

NOTE: Each section of the Lenny Arm is numbered. Every Lenny Arm is assembled at the factory in numerical order. Assembling a Lenny Arm is quick and easy if it is built in the correct numerical sequence.

NOTE: The stated maximum height will vary according to the Base chosen. All weights and heights are based on scale accuracy of 2%. For configurations not shown in this brochure, or questions regarding a special setup, please contact a Chapman/Leonard Service Representative.

WARNING: The Lenny Arm Bucket Positioning Bolts are for aligning and mounting an **EMPTY** Bucket to the rear of a Lenny Arm. As soon as a Bucket is connected to a Lenny Arm with the Positioning Bolts, the two Retaining Rods **MUST** be inserted and Knurled Nuts tightened on the Retaining Bolts.

WARNING: Never exceed the maximum payload values for any configuration. Chapman/Leonard Studio Equipment, Inc. will NOT guarantee the safety or performance of any alterations to the depicted arm configurations.

WARNING: Do not exceed the listed Post Mount Height (PMH) values to avoid invalidating our safety recommendations.

WARNING: The Lenny Arm rear section combination should be configured so that the bucket touches the ground before the Lenny Arm vertical travel limits are obtained.

WARNING: For All Manned Configurations....Cables Are Mandatory.

SAFETY FIRST!

WARNING

• It is NOT Permitted and is Unlawful to Operate This Equipment Within 10 Feet of High-Voltage Line of 50,000 Volts or Less.

• For Minimum Clearances of High-Voltage Line in Excess of 50,000 Volts. See California Code of Regulations, Title 8, Article 37, High-Voltage Electrical Safety Orders.

Source Title 8, California Code of Regulations, Subchapter 5, Group 2, Article 37, §2946, 29 Code of Federal Regulations 1926.451 (F)(6)

Nominal Voltage	Minimum Required Clearance (Feet)	(Meters)
600 up to 50,000	10	3
Over 50,000 to 75,000	11	3.4
Over 75,000 to 125,000	13	4
Over 125,000 to 175,000	15	4.6
Over 175,000 to 250,000	17	4.6
Over 250,000 to 370,000	21	6.4
Over 370,000 to 550,000	27	8.2
Over 550,000 to 1,000,000	42	12.8

Warnings Regarding the CS Base

DO NOT exceed the total weight capacity of the CS Base.

DO NOT use the tires on the CS Base as a step. The tires will turn easily if the base is raised up on the Jackscrews.

DO NOT use the Riser in any Manned Configurations. The Riser is for Unmanned or Remote Configurations only.

DO NOT mix tire types. All tires on the CS Base must be of the same type.

DO place the CS Base on firm ground or provide further support by adding plywood sheeting or other means.

DO keep any unused Weights in the Storage Areas of the CS Base. This adds to the balance and stability of the CS Base.

DO wear gloves when handling Weights.

DO use the Pneumatic Tires as a Safety Feature when the CS Base is used on track.

DO ensure the Weight Bucket is able to touch the ground when an Arm is attached to the CS Base.

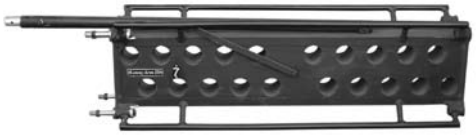
The Cable System **MUST** be used on any Arm attached to the CS Base if the Auxiliary Weight Bucket is used on the Arm.

Lenny Arm III Components

Center Post
4851

Bucket Section
4856

Remote Nose
4857

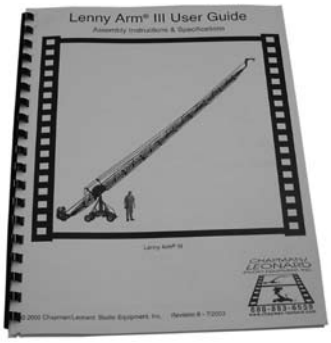


5 Foot Aluminum Section
4853

Nose Section
4855

1 Foot Section
4852

Straight Nose
4847



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2 1/2 Foot Aluminum Section
4858

Auxiliary 5 Wide Bucket
4849

3 Wide Bucket
4850

Extra Rigid Camera
Extension 4716

Cable System Carrying Case
4766

Front Center Post Cable Bracket
5136

4 Wide Bucket
4854

Assorted Tools

Rear Center Post Cable Bracket
5137

5 Wide Bucket
4860

Mid Arm Cable Brackets
5146

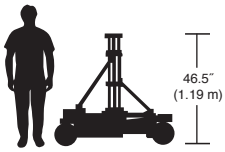
Rear Cable Bracket
5137

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

The Lenny Arm III can be mounted on these Chapman/Leonard products:

Super Peewee®
With High Post Kit
(For Remote Use Only)

Maximum Payload 1,100 lb. (500 kg)
Operating Weight 386 lb. (175 kg)
Minimum Carrying Weight 280 lb. (127 kg)

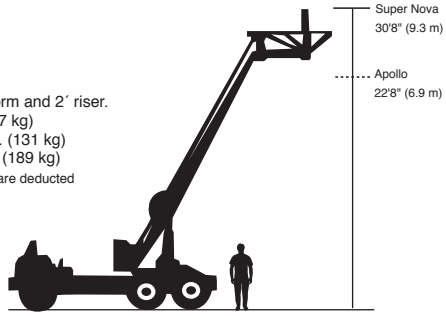


Hybrid
With High Post Kit

Maximum Payload 1,900 lb. (863 kg)
Operating Weight 501 lb. (227 kg)
Minimum Carrying Weight 395 lb. (180 kg)
Manned = Remove 7.5 in. riser
Remote = 7.5 in. riser optional

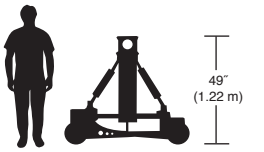
Mobile Crane
For Super Nova / Apollo With Platform and 2′ riser.
- Maximum Payload = 2,700 lb. (1,227 kg)
- Platform at half-circle weighs 285 lb. (131 kg)
- Platform at full-circle weighs 412 lb. (189 kg)

These weights, depending on application, are deducted from the Maximum Payload.



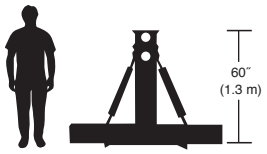
CS Base & Super CS Base
With 7.5 in. riser

Maximum Payload 5,500 lb. (2,500 kg)
Operating Weight 771 lb. (350 kg)
Minimum Carrying Weight 302 lb. (137 kg)
Manned = Remove 7.5 in. riser
Remote = 7.5 in. riser optional



Hy Hy®
w/ 7.5 in. riser
Manned = Remove 7.5 in. riser
Remote = 7.5 in. riser optional

Maximum Payload 2,900 lb. (1,318 kg)
Operating Weight of Unit 325 lb. (148 kg)
Min. Carrying Weight 260 lb. (118 kg)

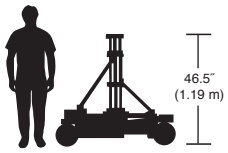


Camera Car Mount

Maximum Payload 3,300 lb. (1,519 kg)
Weight of Unit 515 lb. (237 kg)
(7.5 in. riser optional)

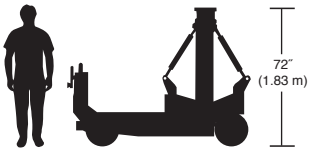
Maverick
Maximum Payload
6,000 lb. (2,727 kg)

Super Maverick
Maximum Payload
8,000 lb. (3,629 kg)



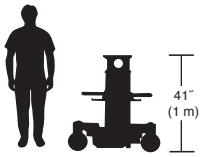
Hustler IV
With High Post Kit

Maximum Payload 1,500 lb. (608.4 kg)
Operating Weight 465 lb. (211 kg)
Minimum Carrying Weight 465 lb. (211 kg)
Manned = Remove 7.5 in. riser



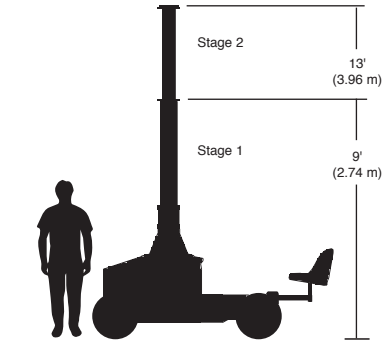
ATB Base
(7.5 in. riser optional)

Maximum Payload 5,500 lb. (2,500 kg)
Operating Weight 2,339 lb. (1,063 kg)
Manned = Remove 7.5 in. riser
Remote = 7.5 in. riser optional

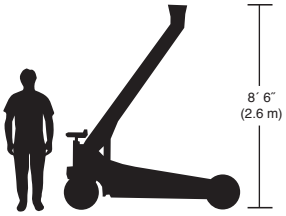


Pedolly® Chassis
w/ Center Post Insert

Maximum Payload 1,100 lb. (500 kg)
Weight of Unit 248 lb. (112 kg)
Min. Carrying Weight 224 lb. (102 kg)

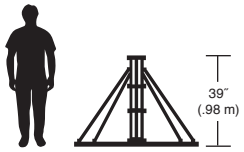


Olympian III
Maximum Payload
Stage 1
4,000 lb. (1,818 kg)
Stage 2
2,000 lb. (909 kg)
Weight of Unit
3,200 lb. (1,455 kg)



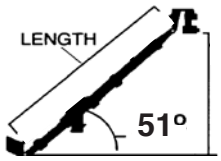
Olympian
Maximum Payload 1,700 lb. (795 kg)
Weight of Unit 1,790 lb. (813 kg)

Raptor
Maximum Payload 2,000 lb. (909 kg)
Weight of Unit 2,100 lb. (954 kg)



Ground Mounting Platform
Maximum Payload 3,000 lb. (1,356 kg)
Weight of Unit 206 lb. (93 kg)

The maximum height for the LENNY ARM III is calculated by using the bearings at both ends of the arm as points of reference. Assuming that the arm is at its maximum angle of elevation (56º) and that the arm touches the ground, the maximum height is calculated by multiplying the arm length by sin56º (.829). the forward bearing height is approximately the same as the camera lens height when the camera is underslung. Additional height can be achieved by the use of risers or by overslinging.



The maximum payloads and operational weights for the LENNY ARM III have been calculated using a CAMERA PLATE (7 lb.) and NOSE SEGMENT (18 lbs.). Please consider these facts while deciding which configuration is to be chosen for a given task.

To calculate specific the specific operational weight for any given configuration please use the following formula:

Specific Operational = Weight — **BAW** (Balanced arm weight, no payload) + **payload** (Camera, weights, risers, etc.) + **payload x balance ratio** (Weight in bucket required to balance the given payload)

Specific operational height on elevated platforms =

Platform Mount Height (Ground to mount) + **Forward Length of Arm x .777** (Center post to forward bearing) + **1.5 ft. (.45 m)** (Center post bearing to mount)

Actual Height (H) = MH - (PMH x BR - Actual Mount Height x BR)

The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

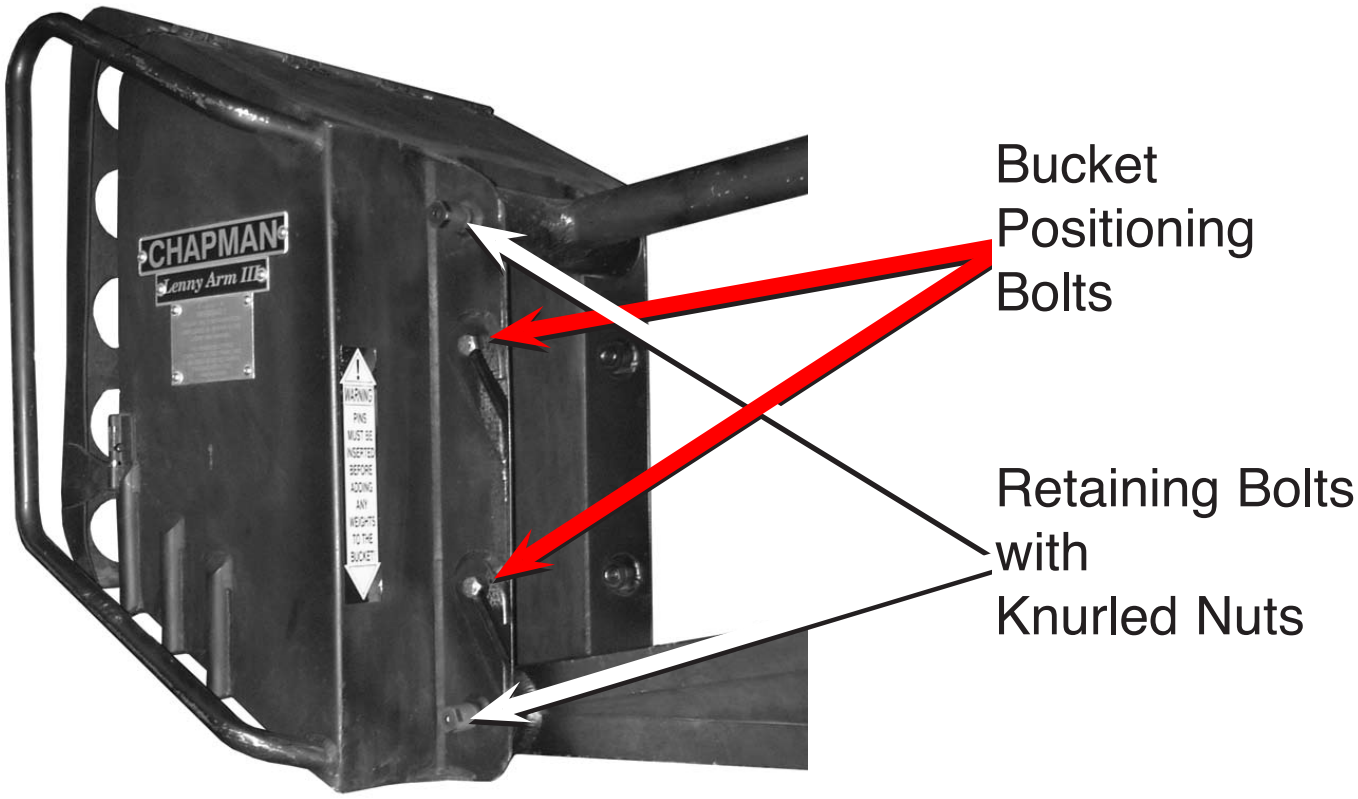
Lenny Arm® III Triple Cable System Checklist

Quantity	Item Description		
30	5' Cable		
	12 marked	Red	Extension Cables
	10 marked	White	
	8 marked	Blue	
2	Front Cable, 1/4" x 46"	Blue	
2	Front Cable, 1/4" x 8 3/4"	White	
2	Front Cable, 1/4" x 13 7/8"	Red	
2	64" Rear Cable		
2	48" Rear Cable		
2	30" Rear Cable		Extension Cables
2	5' Rear Cable		
2	1' Rear Cable		
2	Turnbuckle, 5/8" x 6"		
6	Turnbuckle, 1/2" x 6"		
6	Mid Arm Brackets		
2	Center Post Brackets		
2	Center Post Spreaders		
8	5/8" x 2 1/2" Bolt - Center Post		
4	Clevis Pin with Clip		
2	Rear Cable Bracket		
1	Bolt, 5/8" x 11 1/2" Grade 8		
1	5/8" Nut		
44	Quick Release Pins, 3/8" x 1" (Front Cable)		
4	Quick Release Pins, 3/8"" x 1 1/2" (Center Post Bracket)		
4	Quick Release Pins, 1/2" x 1 1/2" (Rear Cable)		
1	Open and Close End Wrench, 15/16"		
1	Carrying Case		
1	Cart (3 Cable System Case)		
2	1/4" x 2 1/2" Quick Release Spring Assist		
1	Lenny Arm III User Guide		

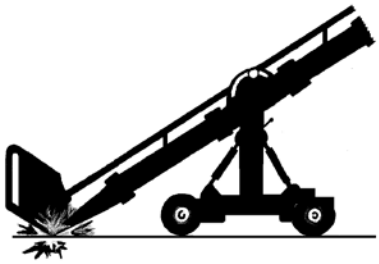
Lenny Arm Bucket Positioning Bolts

The Lenny Arm Bucket Positioning Bolts are for aligning and mounting an **EMPTY** Bucket to the rear of a Lenny Arm.

As soon as a Bucket is connected to a Lenny Arm with the Positioning Bolts, the two Retaining Rods **MUST** be inserted and Knurled Nuts tightened on the Retaining Rods.

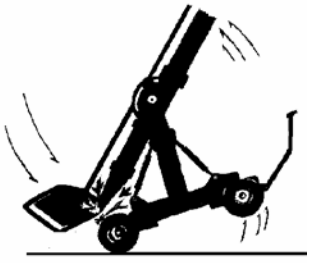


Lenny Arm Bucket



Bucket reaches ground.
(RECOMMENDED)

The lenny Arm rear section combination should be configured so that the bucket touches the ground before the Lenny Arm vertical travel limits are obtained.



Bucket does not reach ground.
(NOT RECOMMENDED)