Lenny Arm® II Plus Crane Arm

USER GUIDE

Operational Instructions & Specifications

Lenny Arm® II Plus

CHAPMAN/LEONARD
STUDIO EQUIPMENT, INC.

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

 Revision 19 - 7/2008

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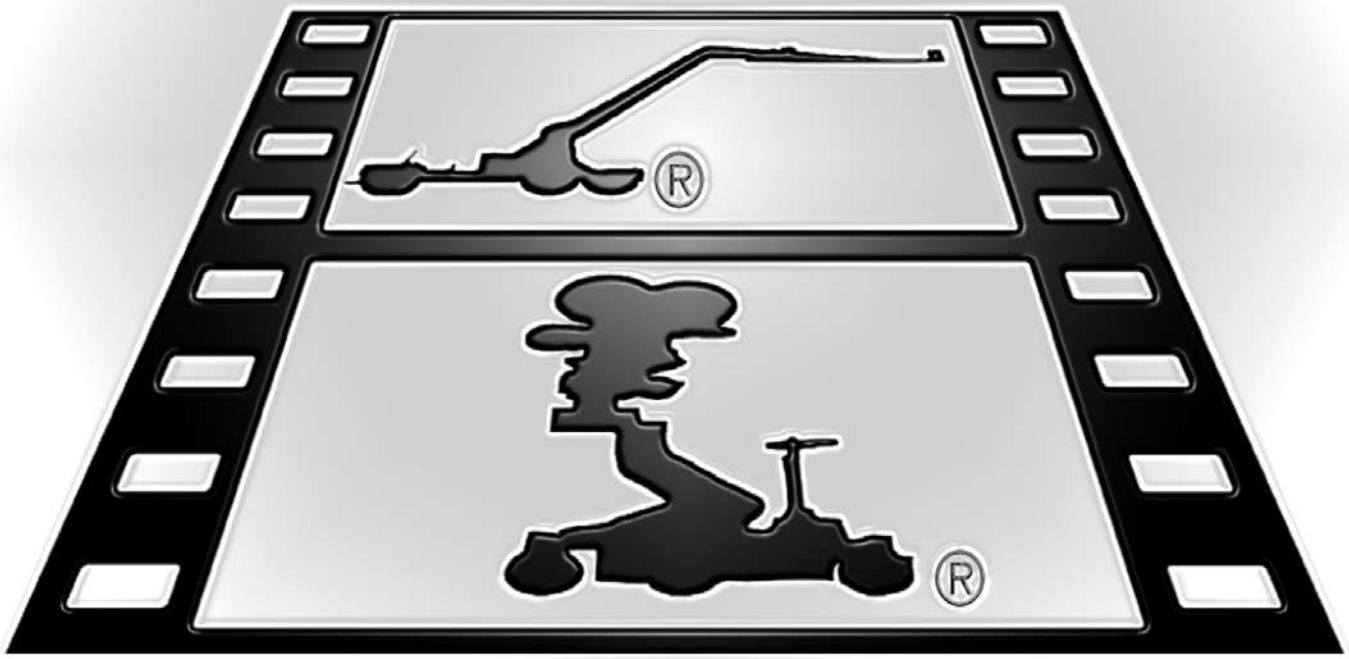
STUDIO EQUIPMENT, INC.



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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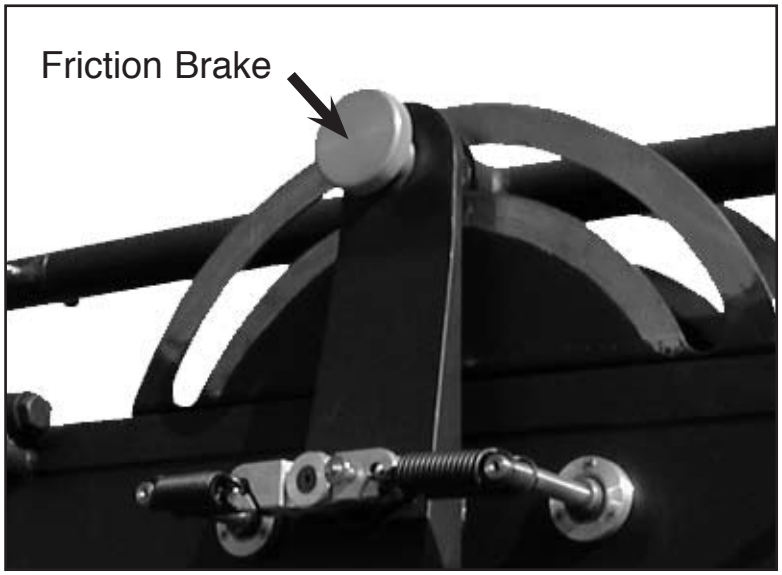
SAFETY FIRST!

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.

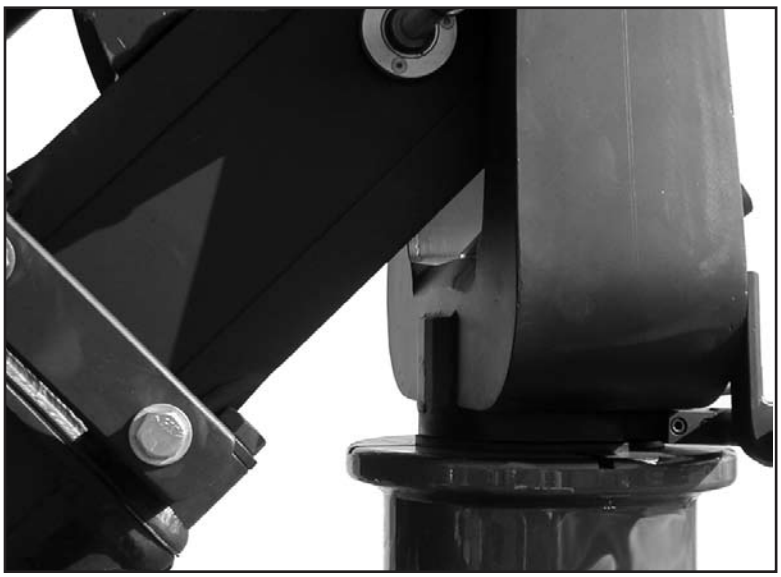
Use gloves when adding or removing weights. Be sure the latch on the Bucket is returned to the locked position after each addition of weights.

SAFETY REQUIREMENTS

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

This is a **REQUIRED** safety feature.

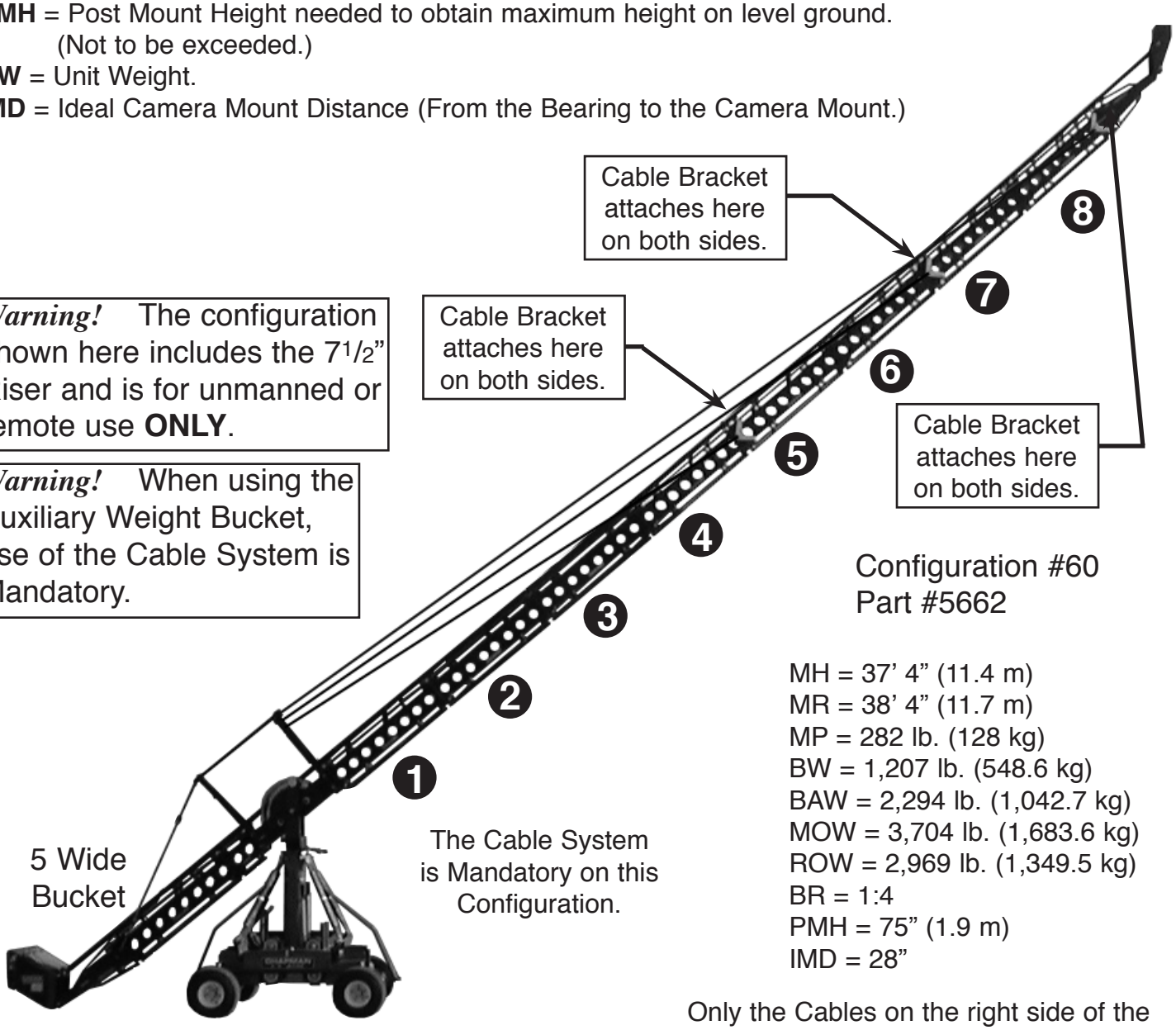
Warning! *The configuration shown here includes the 7 1/2" Riser and is for unmanned or remote use* **ONLY.**



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

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 maximum payload and a full weight bucket.)
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 #60
Part #5662

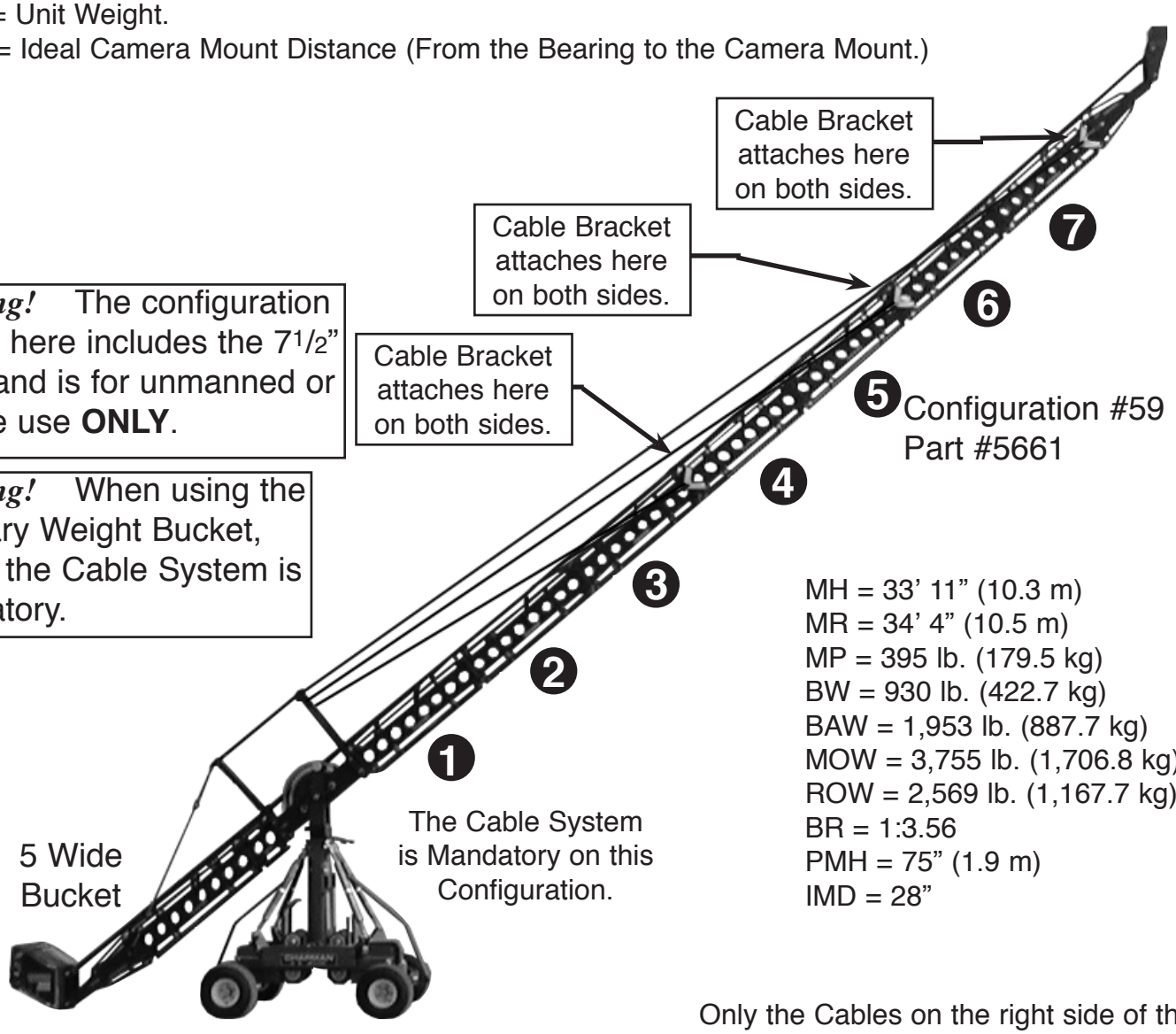
MH = 37' 4" (11.4 m)
MR = 38' 4" (11.7 m)
MP = 282 lb. (128 kg)
BW = 1,207 lb. (548.6 kg)
BAW = 2,294 lb. (1,042.7 kg)
MOW = 3,704 lb. (1,683.6 kg)
ROW = 2,969 lb. (1,349.5 kg)
BR = 1:4
PMH = 75" (1.9 m)
IMD = 28"

UW = 1,087 lb. (494 kg)

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

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 maximum payload and a full weight bucket.)
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.

Configuration #59
Part #5661

MH = 33' 11" (10.3 m)
MR = 34' 4" (10.5 m)
MP = 395 lb. (179.5 kg)
BW = 930 lb. (422.7 kg)
BAW = 1,953 lb. (887.7 kg)
MOW = 3,755 lb. (1,706.8 kg)
ROW = 2,569 lb. (1,167.7 kg)
BR = 1:3.56
PMH = 75" (1.9 m)
IMD = 28"

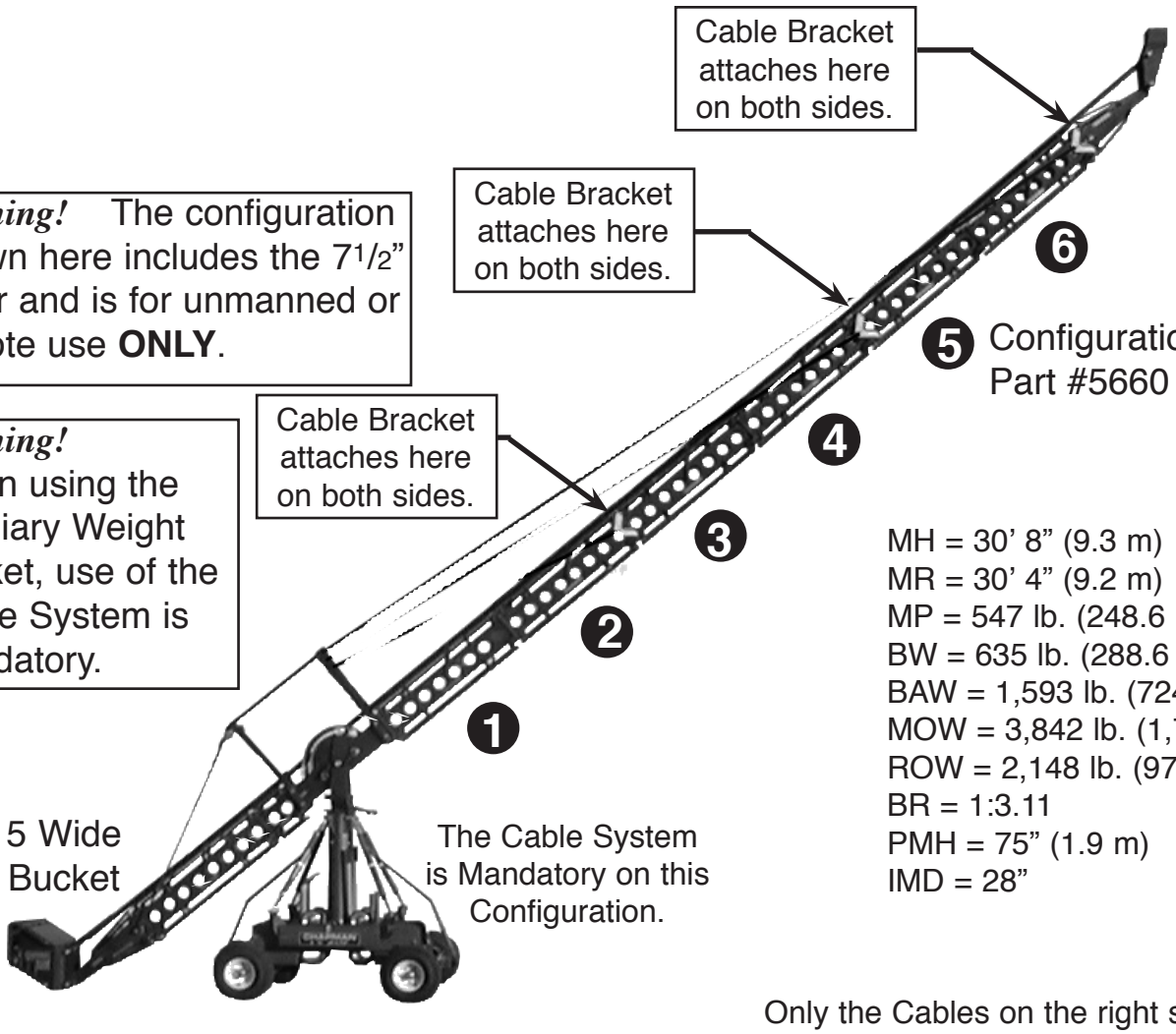
UW = 1,023 lb. (465 kg)

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

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 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 maximum payload and a full weight bucket.)
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.

5 Configuration #58
Part #5660

MH = 30' 8" (9.3 m)
MR = 30' 4" (9.2 m)
MP = 547 lb. (248.6 kg)
BW = 635 lb. (288.6 kg)
BAW = 1,593 lb. (724.1 kg)
MOW = 3,842 lb. (1,746.4 kg)
ROW = 2,148 lb. (976.4 kg)
BR = 1:3.11
PMH = 75" (1.9 m)
IMD = 28"

5 Wide Bucket

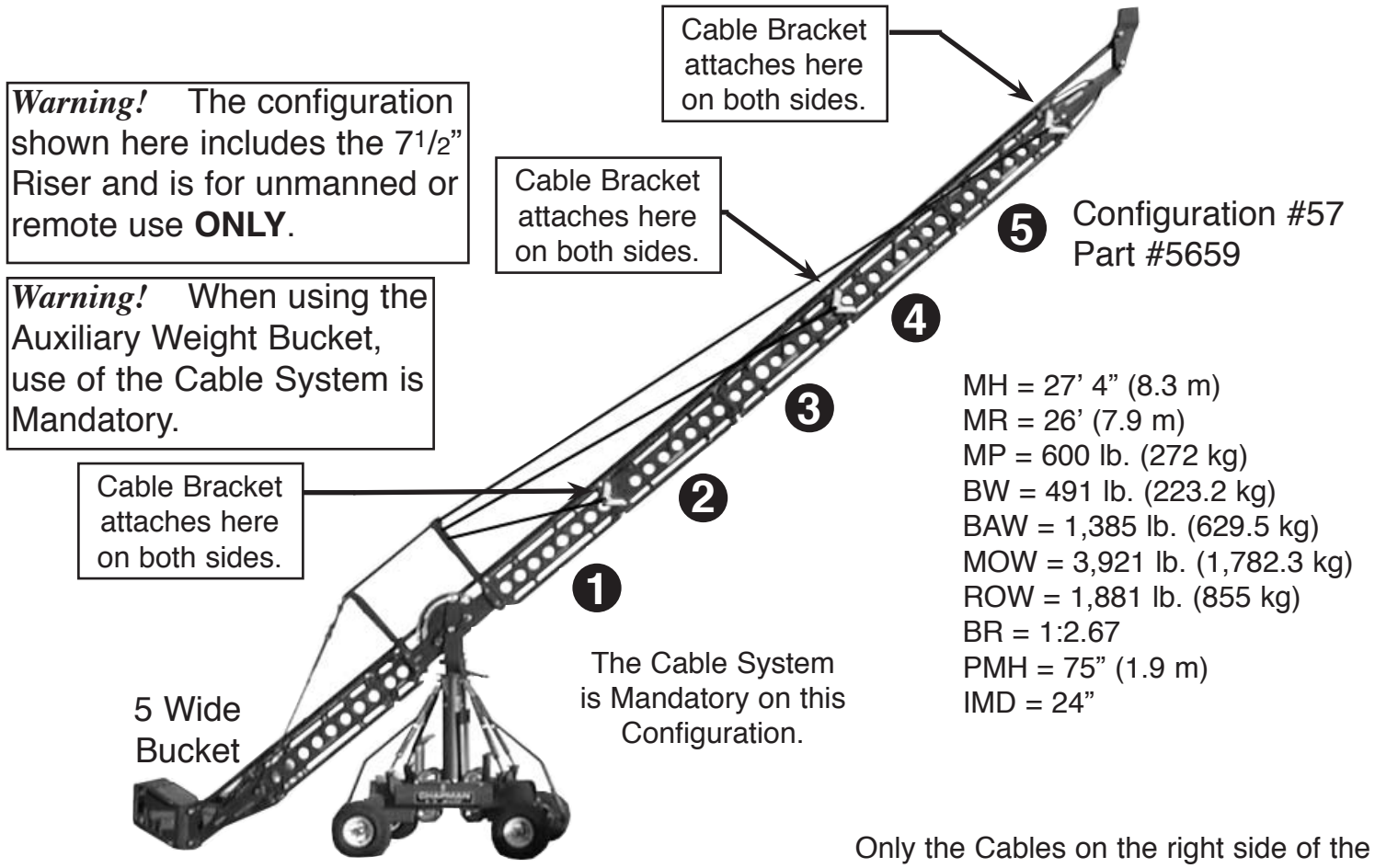
The Cable System is Mandatory on this Configuration.

UW = 958 lb. (435.5 kg)

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

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 maximum payload and a full weight bucket.)
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.)



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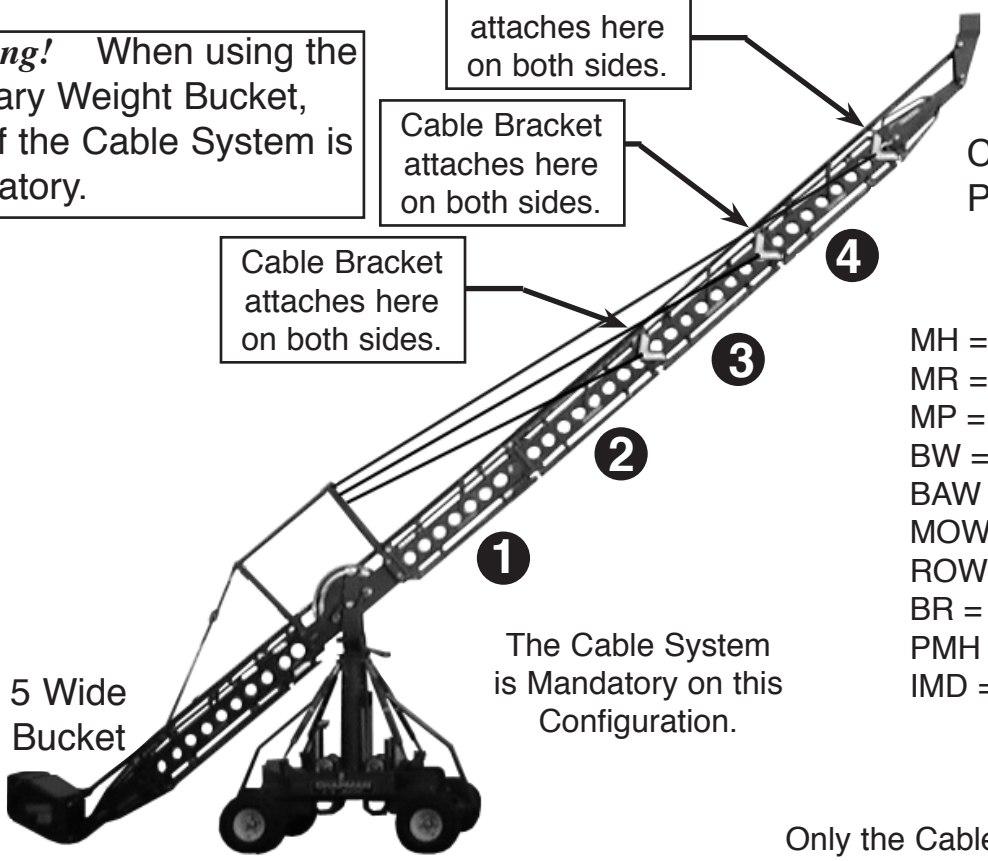
BRACKET PLACEMENT with 4 SECTIONS
when using the 3 Cable System

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 maximum payload and a full weight bucket.)
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 #56
Part #5658

MH = 24' (7.3 m)
MR = 21' 8" (6.6 m)
MP = 600 lb. (272 kg)
BW = 295 lb. (134.1 kg)
BAW = 1,124 lb. (510.9 kg)
MOW = 3,700 lb. (1,681.8 kg)
ROW = 1,559 lb. (708.6 kg)
BR = 1:2.2
PMH = 75" (1.9 m)
IMD = 20"

The Cable System is Mandatory on this Configuration.

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

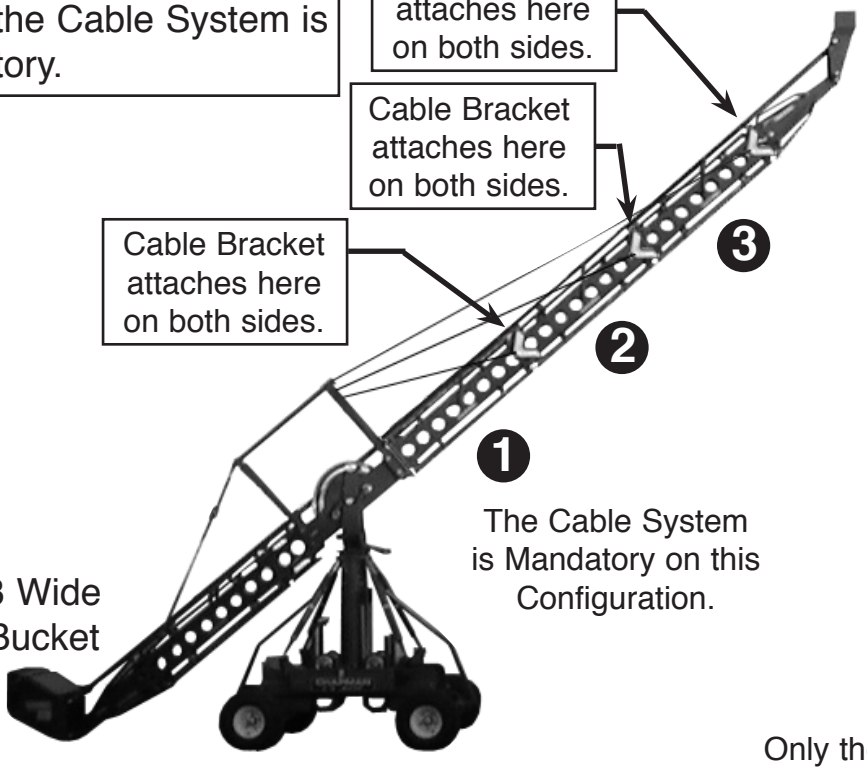
UW = 829 lb. (376.8 kg)

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 maximum payload and a full weight bucket.)
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 #33
Part #5233

MH = 20' 8" (6.3 m)
MR = 17' 4" (5.3 m)
MP = 548 lb. (249 kg)
BW = 174 lb. (79 kg)
BAW = 835 lb. (379.5 kg)
MOW = 2,364 lb. (1,074.5 kg)
ROW = 1,210 lb. (550 kg)
BR = 1:1.78
PMH = 75" (1.9 m)
IMD = 16"

The Cable System is Mandatory on this Configuration.

UW = 661 lb. (300 kg)

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

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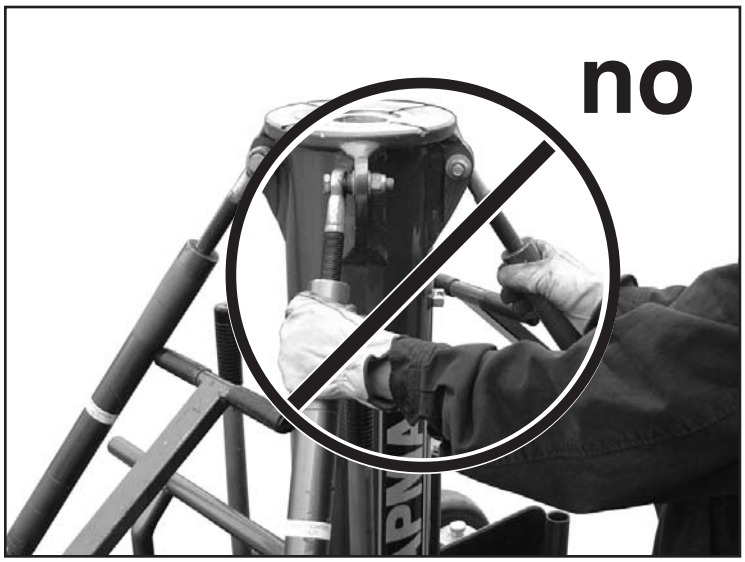
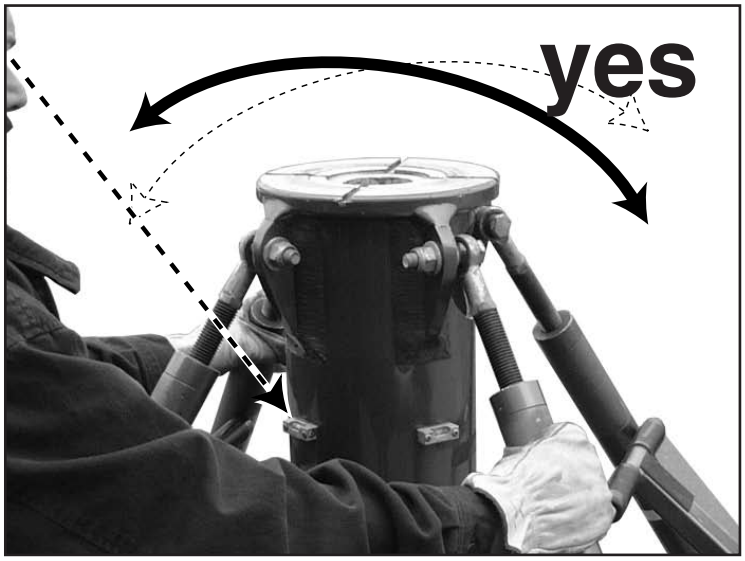


LEVELING THE CS BASE CENTER POST

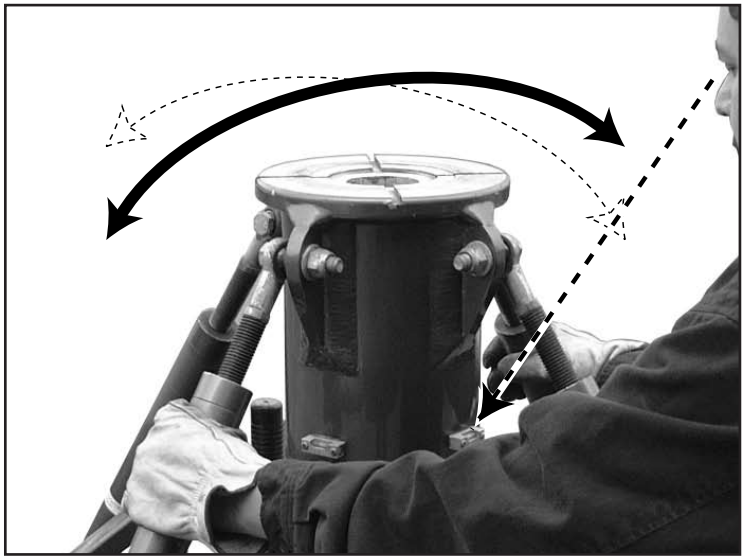
DO NOT attempt to Level or Adjust the CS Base Center Post by turning Adjacent Leveling Rods. Adjacent Leveling Rods are on different Axes.



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.

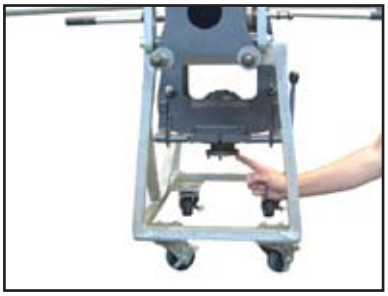


Complete the Leveling Process by adjusting the second set of opposing Leveling Rods in the same manner.

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.

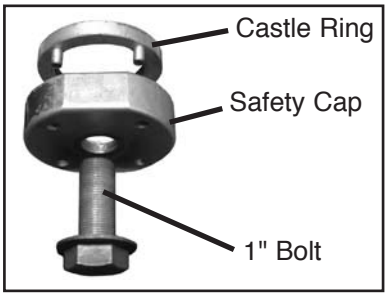
MOUNTING THE LENNY ARM CENTER POST

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

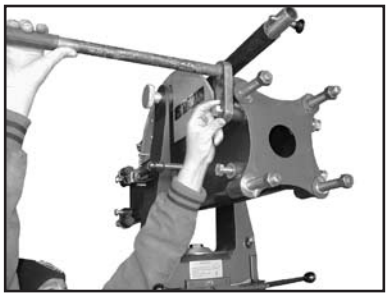


When the Lenny Arm Center Post is not mounted on a Base, protect the treads with the Castle Ring.

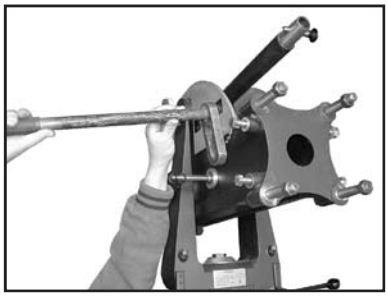
Remove the Castle Ring in preparation for mounting the Lenny Arm Center Post to the CS Base.



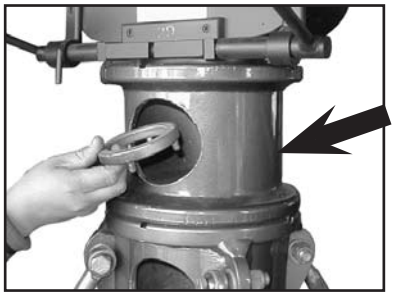
The Lenny Arm Center Post is attached to the CS Base Center Post with this arrangement of parts.



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)

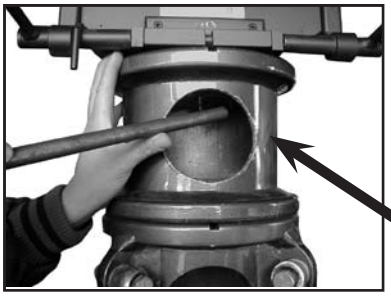


Detach the Lifting Bars at four locations.



Attach the Castle Ring to the Lenny Arm Center Post.

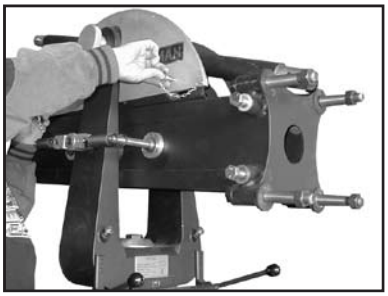
Warning! The 7 1/2" Riser should not be used with Manned Configurations. It is attached to the Lenny Arm Center Post with a 1" Bolt and Nut. It may be removed and the Lenny Arm Center Post attached directly to the CS Base Center Post.



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.

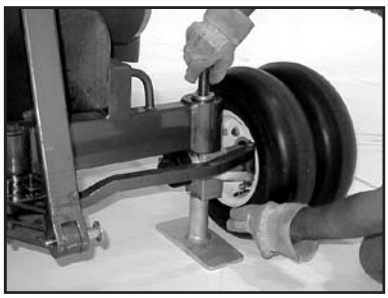


Remove the Fin Guards from the Center Section. This completes the Mounting Procedure for the Center Post.

SECURING THE BASE

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

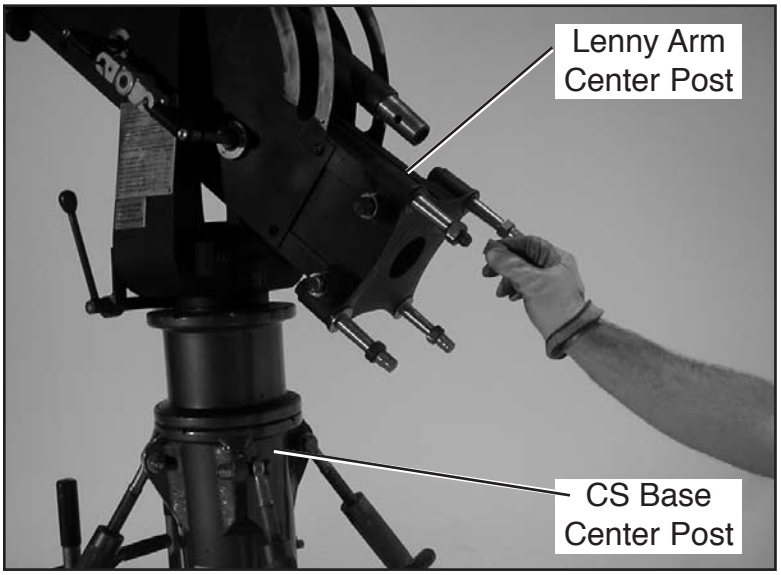
Insert the Jackscrew through the Kingpin hole. Place the Plate on the ground with the dimple on the plate in position to receive the Jackscrew.



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

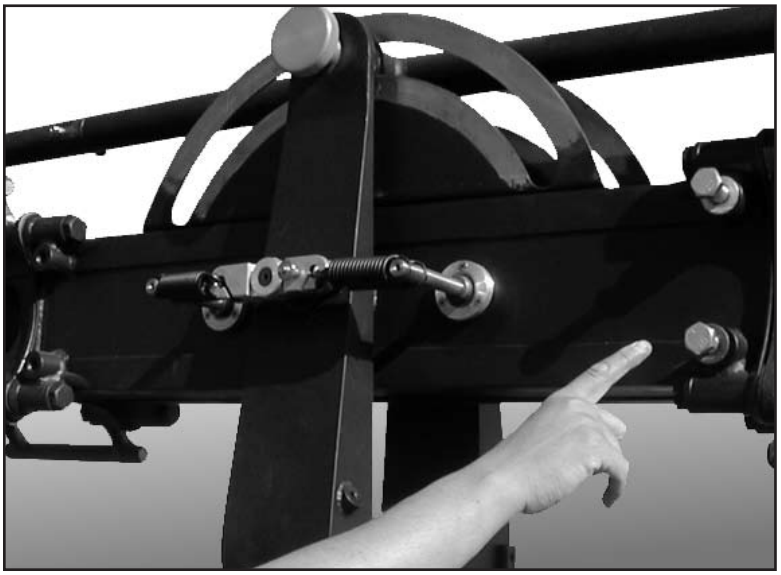
The weight of the CS Base should be evenly distributed between the wheels and the four Jackscrews.

GETTING STARTED



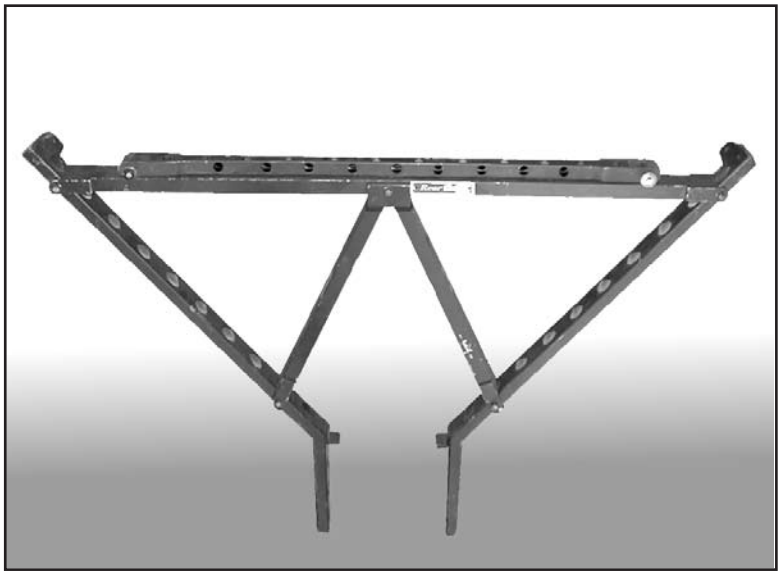
Tilt the Lenny Arm Center Post and remove the plastic covers from the bolts.

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

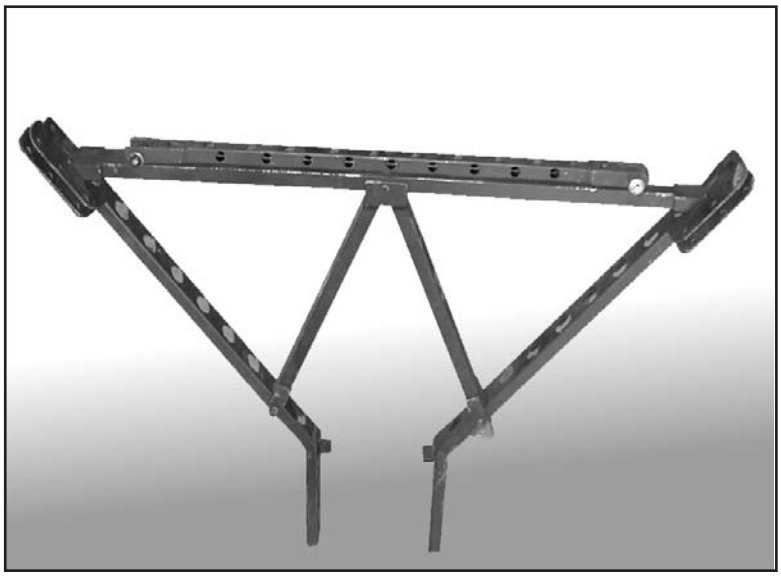


The Center Post Cable Brackets attach to bolts on the sides of the Lenny Arm Center Post section.

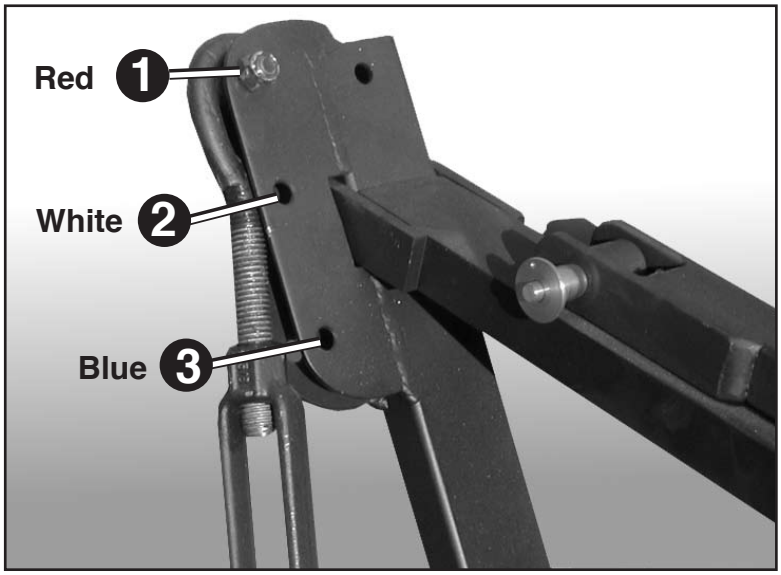
CENTER POST CABLE BRACKETS



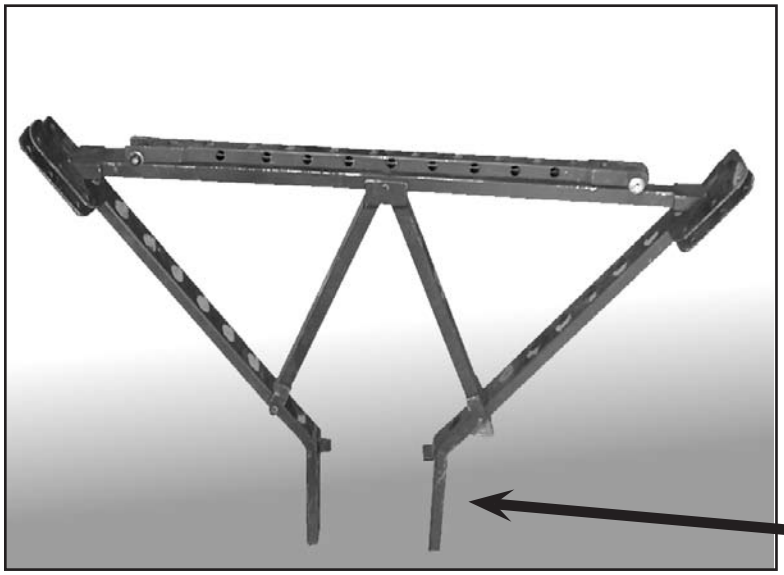
The Rear Section of the Center Post Cable Bracket has single cable attachments on each side.



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

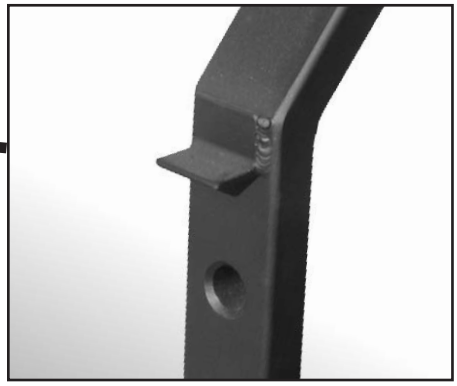


Close-up of Front Section triple cable attachment holes.



CENTER POST CABLE BRACKETS

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

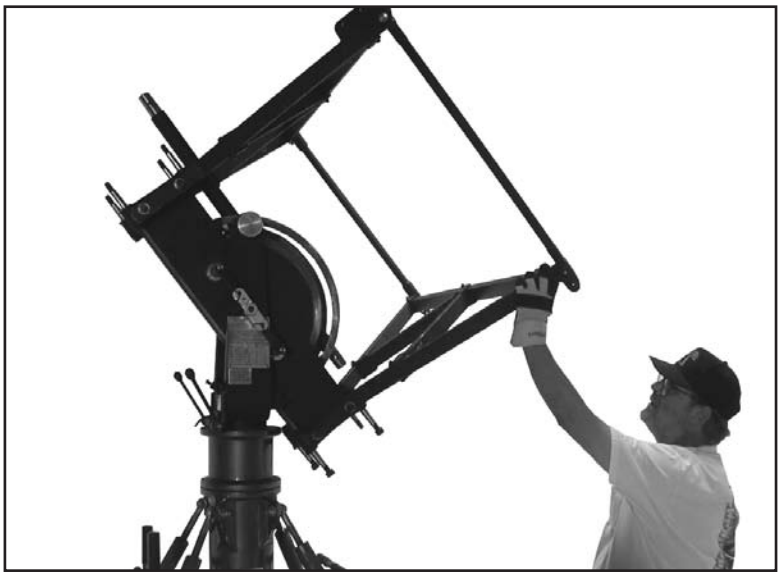


Tilt the Center Post section and attach the first Center Post Cable Bracket. Hand tighten the bolts.

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".

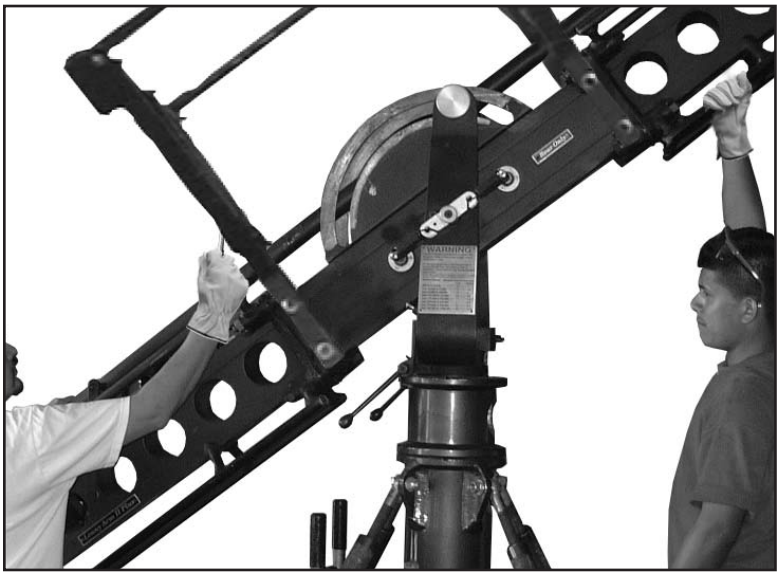
Tilt the Lenny Arm Center Post toward yourself and attach the Leveling Rod with a Quick Release Pin.

Place the section onto the bolts and tighten.

BALANCE WHILE ASSEMBLING

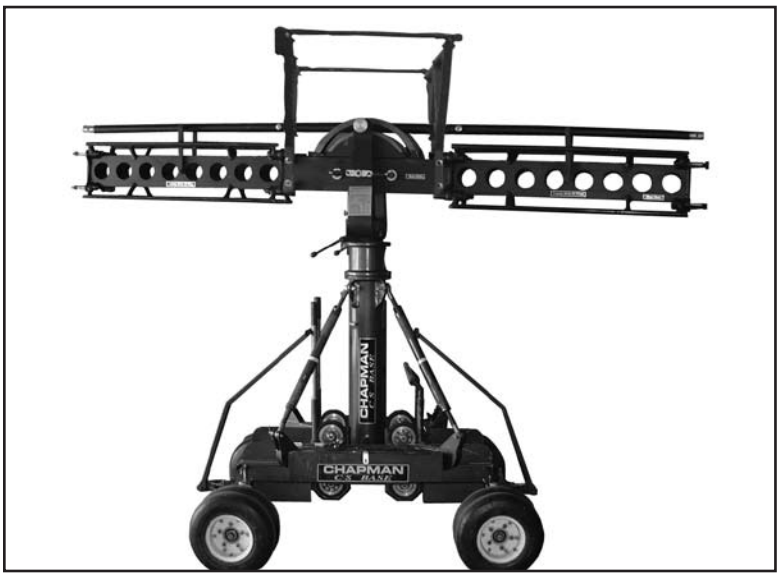
The key to building a Lenny Arm quickly and safely is to use the Fulcrum's ability to tilt.

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.

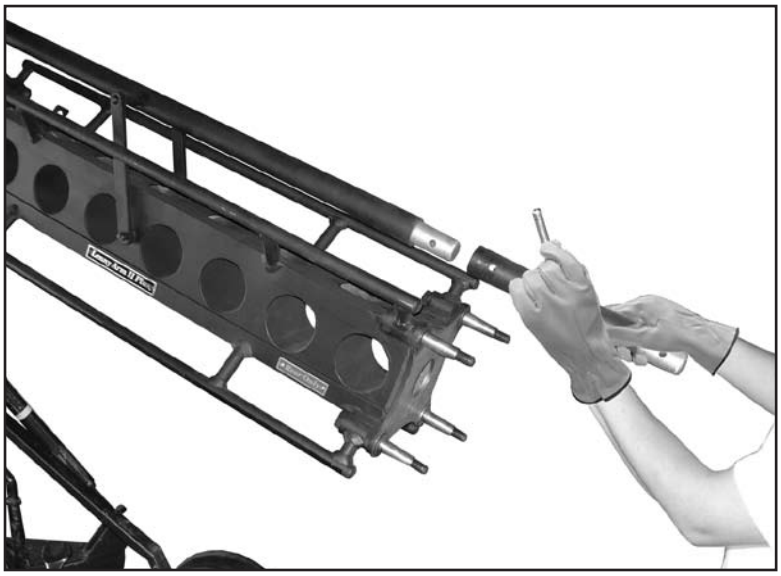
NOTE: Each section of the Lenny Arm is numbered. Every Lenny Arm is assembled at the factory in numerical order. Assembling a Lenny Arm is quick and easy if it is built in the correct numerical sequence.



The Arm is now balanced with 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.

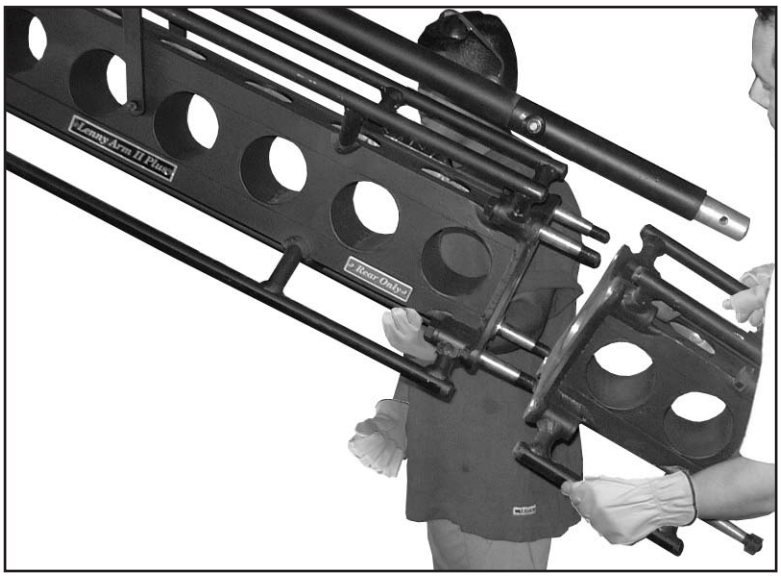
Warning! Always keep the base stationary by using the jackscrews or chocking the wheels.



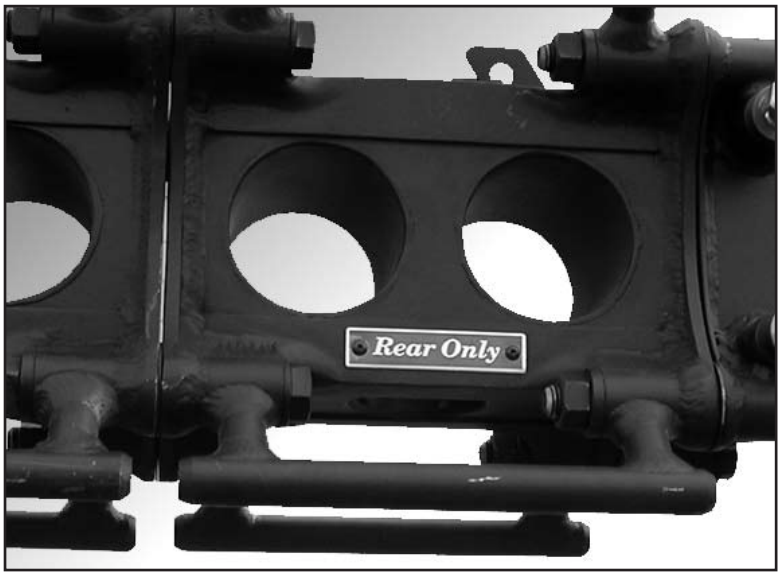
BALANCE WHILE ASSEMBLING

Tilt the Arm toward the rear to add the next section.

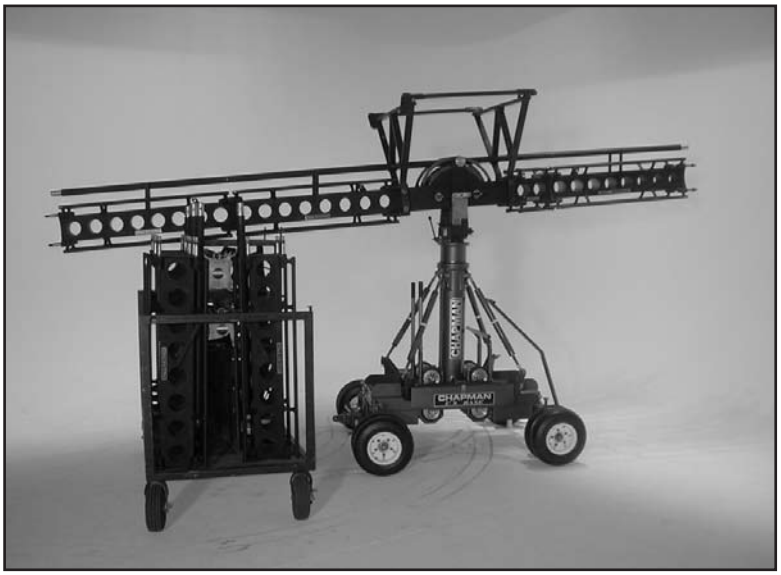
If the "1 Foot" Rear Section is going to be used, attach the Leveling Rod of the "1 Foot" Section. Insert the Quick Release Pin and secure.



Attach the "1 Foot" Rear Section. Attach nuts and tighten with a wrench.



The "1 Foot" Rear Section is marked with a red metal label (Rear Only). It may only be used as a rear section.



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 bolts with a wrench.

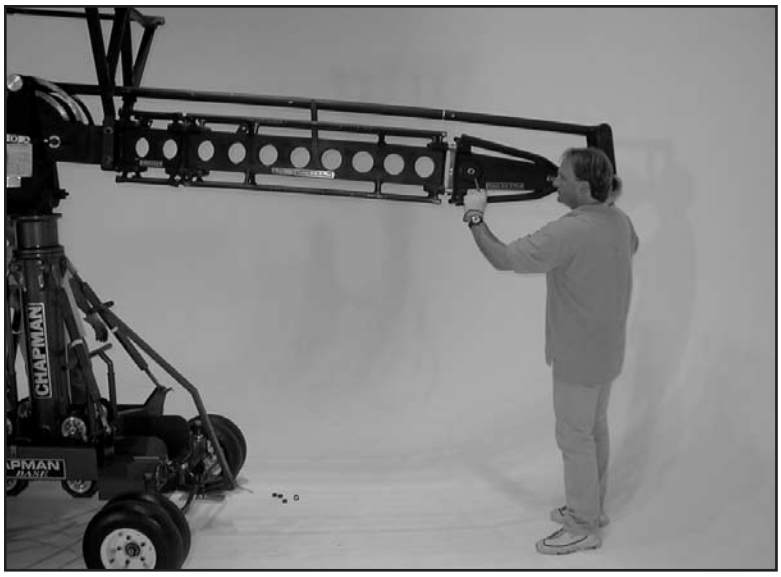
The Accessory Cart can now be used to rest the Arm while continuing to add sections.
Secure all wheels on the CS Base and Accessory Cart by using Wheel Chocks.

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 the Lenny Arm manual. (See pages 34-50). 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 section cable bracket. Attach nuts and tighten.

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 lower hole. Hand tighten the knurled knob on each end of the rod.

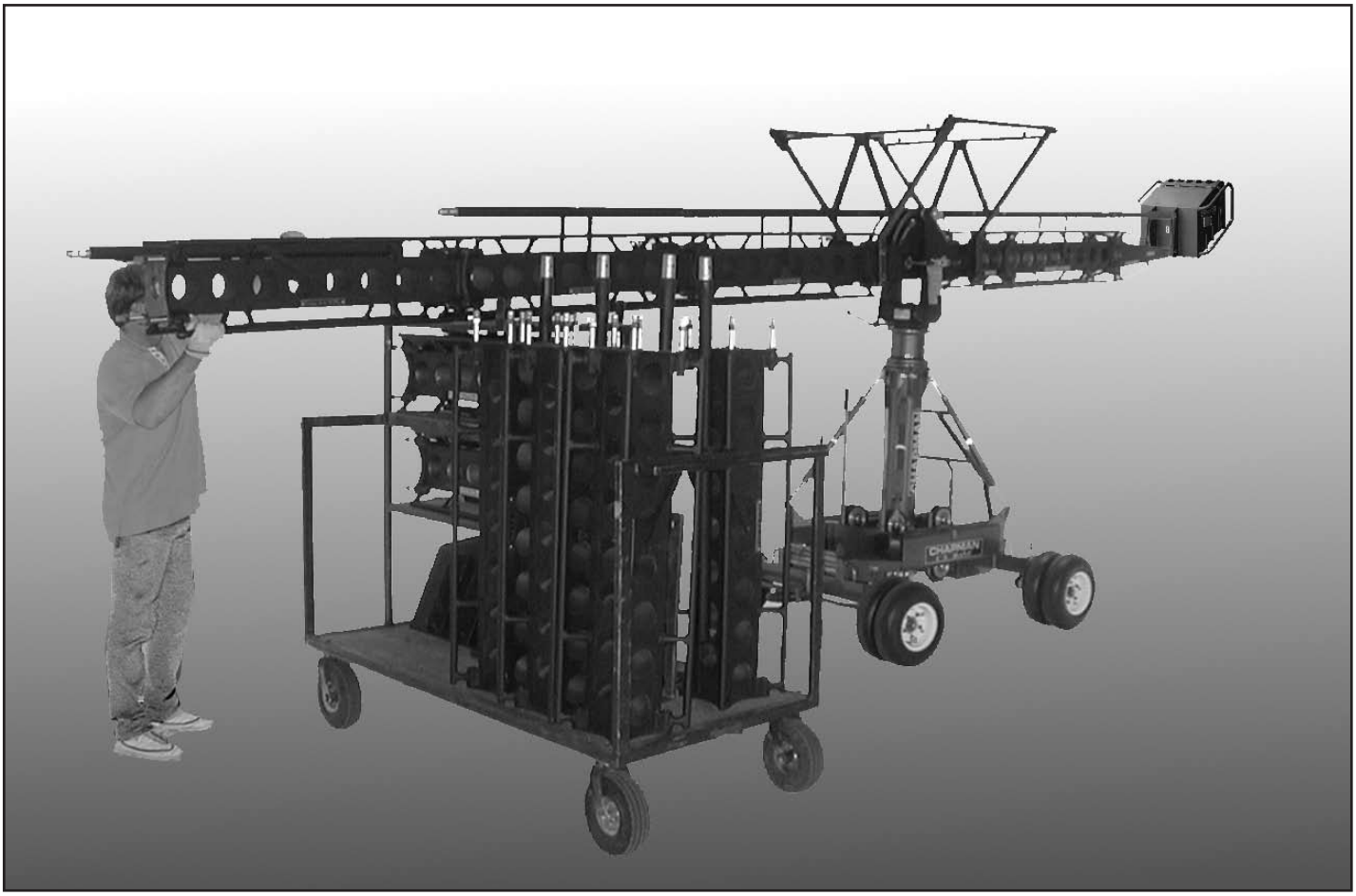
Tilt the Weight Bucket upward and attach the upper rod to the Bucket. Hand tighten the knurled knobs at both ends of the rod.

WEIGHTS FOR BALANCE

Balance the Arm by adding weights to the Bucket.

Remember! Use gloves when assembling and handling the Weights.

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

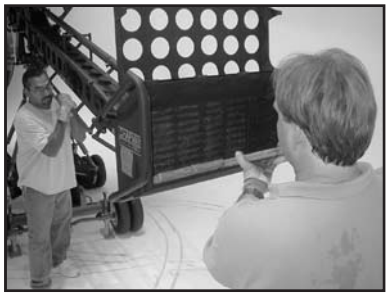


While using the Accessory Cart as a support, attach a front section beginning with the Leveling Rod. **Secure all wheels on the CS Base and Accessory Cart by using Wheel Chocks, locking the wheels, or using Jack Screws.**
Add weights to the Bucket to reestablish balance before adding the next section to the front.

THE NOSE SEGMENT

When all the forward sections have been attached to the Arm you can now attach the Front Section 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.

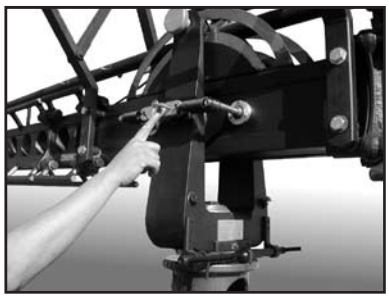
THE NOSE SECTION

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.



THE SPRING FINE BALANCING SYSTEM

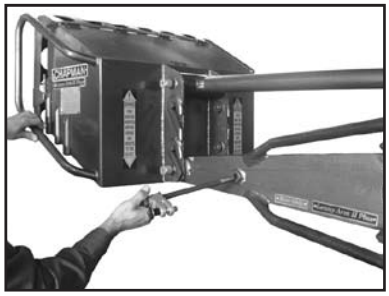
When using the Cable System, insert the Quick Release Pin in the hole on the spring bracket.

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.

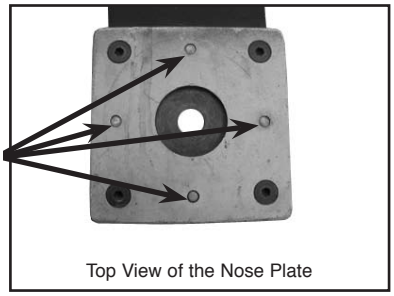


Attach the Rear Cable Brackets on each side.

Place nuts on the Rear Cable bracket bolts.

ATTACHMENTS TO THE LENNY ARM

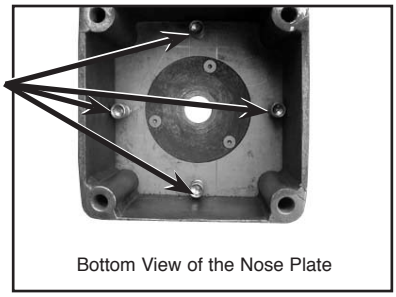
The Fluid Head Turret features adjustable Seat and Camera Mount for optimal balance. Adjustable drag when panning provides superior control and handling.



Top View of the Nose Plate

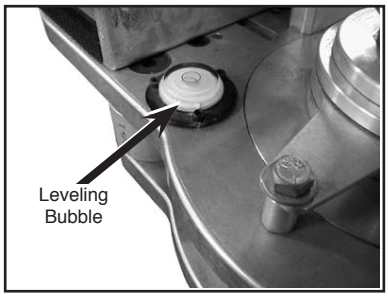
To Mount and Level the Turret, begin by making sure the Leveling Screws are flush with the Nose Plate. Attach the Turret onto the plate while leaving the one inch Bolt slightly loose to make adjustments.

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

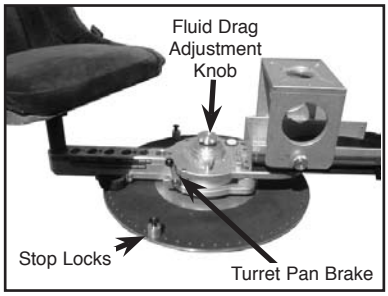


Bottom View of the Nose Plate

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

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.

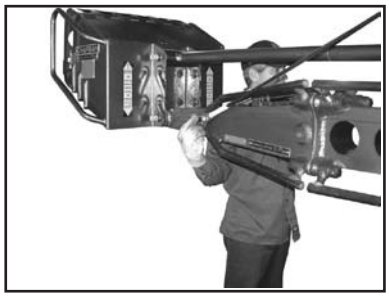
AUXILIARY WEIGHT BUCKET

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

The Auxiliary Weight Bucket uses the same weights as the Standard Weight Bucket. Load the weights evenly across the Bucket.

THE REAR CABLE SYSTEM

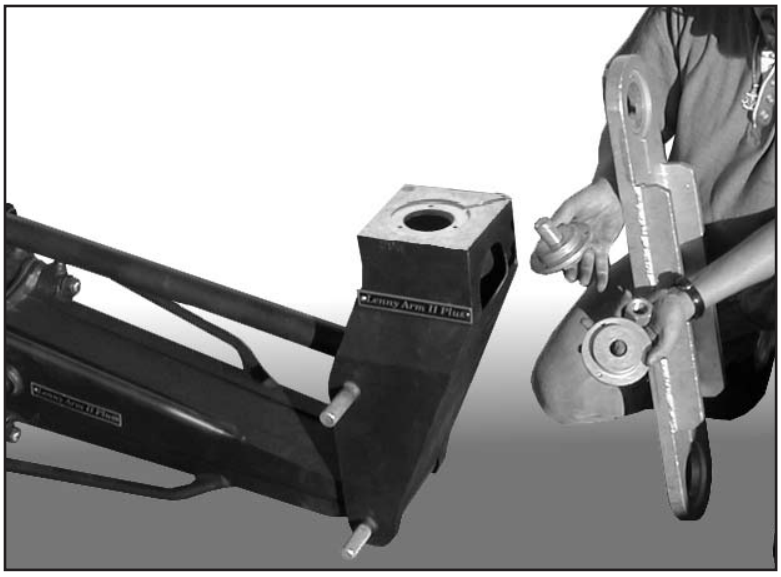
Attach the Rear Cable at the Center Post Cable Bracket with the Quick Release Pin.



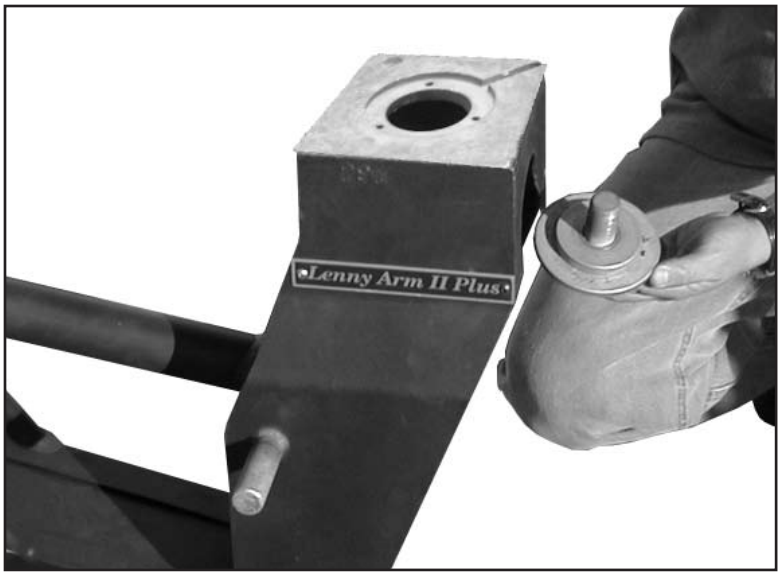
Attach the Rear Cable (the thicker cable) to the Rear Cable Bracket.

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

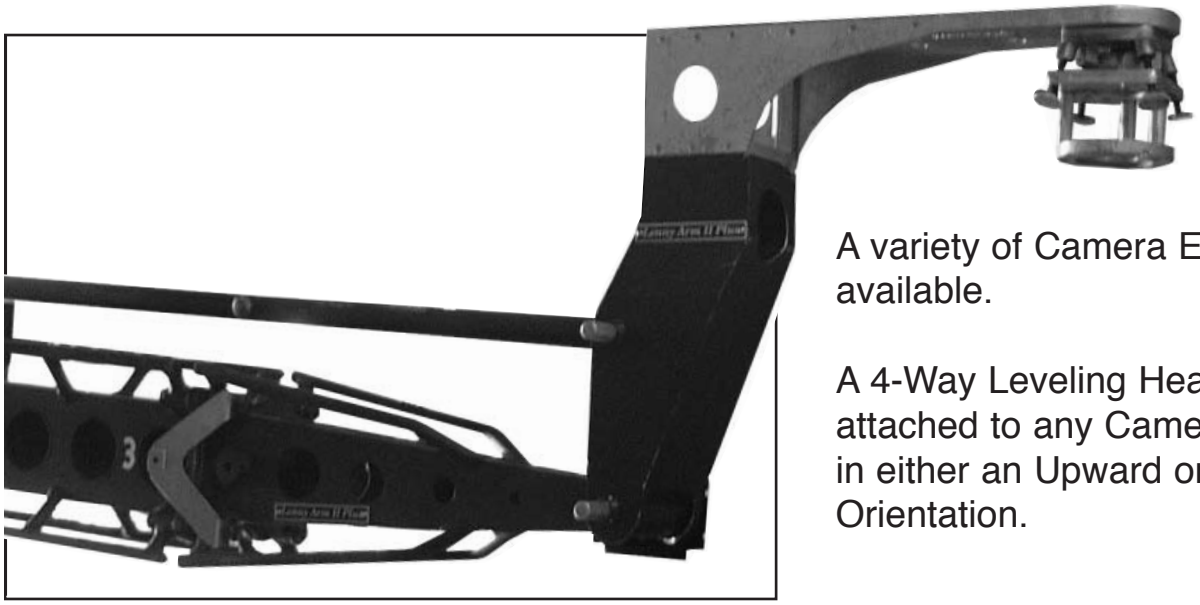
CAMERA EXTENSIONS



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.

NOTE: If any part of this manual is faxed or transmitted to a client, the list of <u>warnings on page 48</u> MUST be attached.

1. 5201

MH = 7' 5" (2.3m)
MR = 4' 9" (1.5 m)
MP = 588 lb. (267.3 kg)
BW = -11 Lb. (-5 kg)
BAW = 391 lb. (177.7 kg)

MOW = 1,555 lb. (706.8 kg)
ROW = 639 lb. (290.4 kg)
BR = 1 : 1.00
PMH = 35" (.89 m)
UW = 380 lb. (172.7 kg)

2. 5202

MH = 9' 5" (2.9 m)
MR = 7' 9" (2.4 m)
MP = 298 lb. (135.5 kg)
BW = 92 lb. (41.6 kg)
BAW = 514 lb. (233.6 kg)

MOW = 1,298 lb. (590 kg)
ROW = 870 lb. (395.5 kg)
BR = 1 : 1.63
PMH = 35" (.89 m)
UW = 422 lb. (191.8 kg)

3. 5203

MH = 10' 10" (3.3 m)
MR = 9' 6" (2.9 m)
MP = 210 lb. (95.4 kg)
BW = 154 lb. (70 kg)
BAW = 594 lb. (270 kg)

MOW = 1,225 lb. (556.8 kg)
ROW = 999 lb. (454.1 kg)
BR = 1 : 2.00
PMH = 35" (.89 m)
UW = 440 lb. (200 kg)

4. 5204

MH = 11' 7" (3.5 m)
MR = 9' 2" (2.2 m)
MP = 303 lb. (137.7 kg)
BW = 92 lb. (41.8 kg)
BAW = 556 lb. (252.7 kg)

MOW = 1,344 lb. (610.9 kg)
ROW = 912 lb. (414.5 kg)
BR = 1 : 1.60
PMH = 45" (1.15 m)
UW = 464 lb. (210.9 kg)

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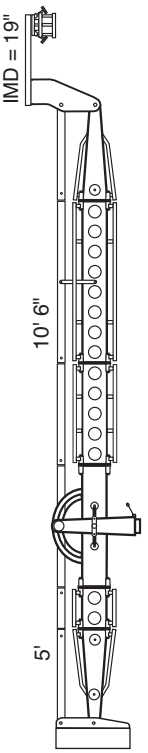
5. 5205

MH = 13' 8" (4.2 m)
MR = 12' 1" (3.7 m)
MP = 195 lb. (88.6 kg)
BW = 168 lb. (76.2 kg)
BAW = 674 lb. (306.3 kg)

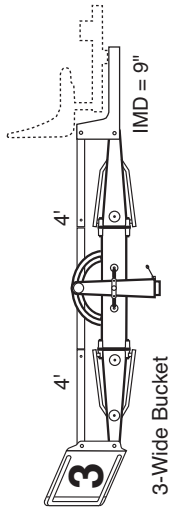
MOW = 1,273 lb. (578.6 kg)
ROW = 1,093 lb. (496.6 kg)
BR = 1 : 2.10
PMH = 45" (1.15 m)
UW = 506 lb. (230 kg)



6. 5206

MH = 6' 7" (2 m)
MR = 4' 9" (1.5 m)
MP = 800 lb. (363.6 kg)
BW = -16 lb. (-7.3 kg)
BAW = 413 lb. (188 kg)

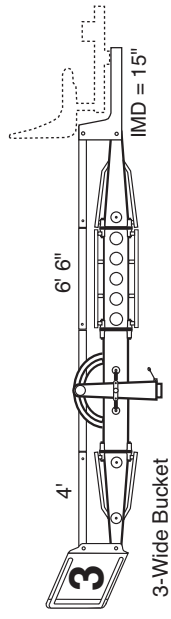
MOW = 2,013 lb. (915 kg)
ROW = 683 lb. (310.5 kg)
BR = 1 : 1.00
PMH = 25" (.64 m)
UW = 397 lb. (180.5 kg)



7. 5207

MH = 8' 7" (2.7 m)
MR = 7' 9" (2.6 m)
MP = 663 lb. (301.4 kg)
BW = 75 lb. (34.1 kg)
BAW = 514 lb. (233.6 kg)

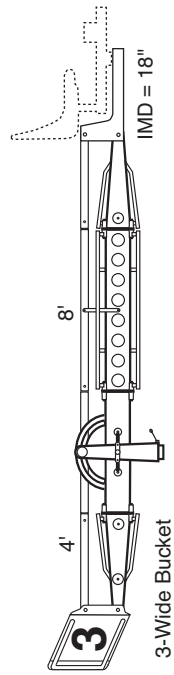
MOW = 2,257 lb. (1,025.9 kg)
ROW = 869 lb. (395 kg)
BR = 1 : 1.63
PMH = 25" (.64 m)
UW = 439 lb. (199.5 kg)



8. 5208

MH = 9' 10" (3 m)
MR = 9' 6" (3 m)
MP = 508 lb. (230.9 kg)
BW = 134 lb. (60.9 kg)
BAW = 591 lb. (268.6 kg)

MOW = 2,120 lb. (963.6 kg)
ROW = 996 lb. (452.7 kg)
BR = 1 : 2.00
PMH = 25" (.64 m)
UW = 457 lb. (207.7 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.

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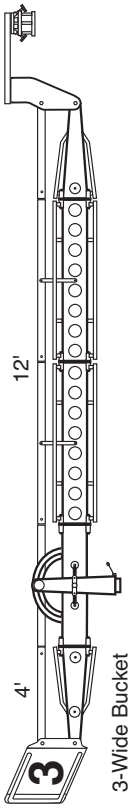
9. 5209

MH = 13' 3" (4 m)
MR = 14' 3" (4.3 m)
MP = 268 lb. (121.8 kg)
BW = 342 lb. (155.5 kg)
BAW = 859 lb. (390.5 kg)

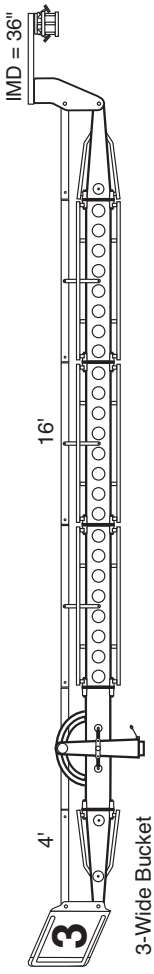
MOW = 1,931 lb. (877.7 kg)
ROW = 1,400 lb. (636.4 kg)
BR = 1 : 3.00
PMH = 25" (.64 m)
UW = 517 lb. (235 kg)



10. 5210

MH = 16' 6" (5 m)
MR = 19' (5.8 m)
MP = 173 lb. (78.6 kg)
BW = 465 lb. (211.2 kg)
BAW = 1,024 lb. (465.5 kg)

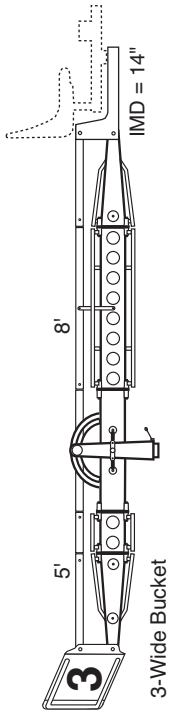
MOW = 1,889 lb. (858.6 kg)
ROW = 1,699 lb. (772.3 kg)
BR = 1 : 4.00
PMH = 25" (.64 m)
UW = 559 lb. (254.1 kg)



11. 5211

MH = 10' 8" (3.3 m)
MR = 9' 2" (3.1 m)
MP = 673 lb. (305.9 kg)
BW = 75 lb. (34.1 kg)
BAW = 556 lb. (252.7 kg)

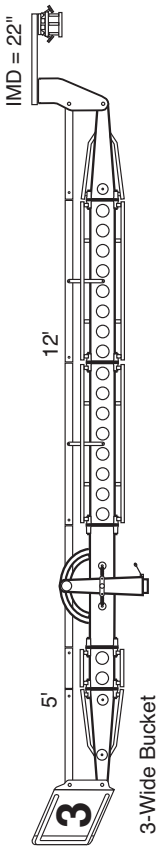
MOW = 2,309 lb. (1,049.5 kg)
ROW = 910 lb. (413.6 kg)
BR = 1 : 1.60
PMH = 35" (.89 m)
UW = 481 lb. (218.6 kg)



12. 5212

MH = 14' 1" (4.3 m)
MR = 13' 10" (4.2 m)
MP = 378 lb. (171.8 kg)
BW = 243 lb. (110.5 kg)
BAW = 784 lb. (356.4 kg)

MOW = 2,070 lb. (940.9 kg)
ROW = 1,245 lb. (565.9 kg)
BR = 1 : 2.40
PMH = 35" (.89 m)
UW = 541 lb. (245.9 kg)



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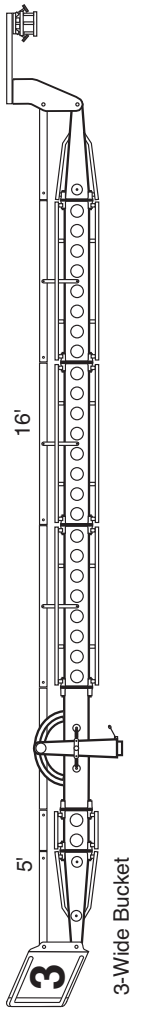
13.
5213

MH = 17' 4" (5.3 m)
MR = 18' 5" (5.6 m)
MP = 218 lb. (99.1 kg)
BW = 458 lb. (208.2 kg)
BAW = 1,059 lb. (481.4 kg)

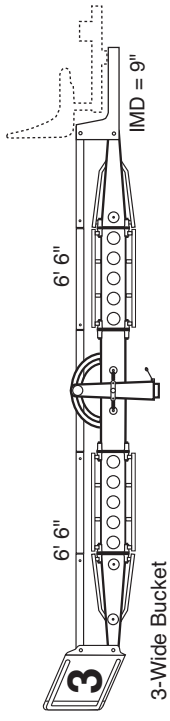
MOW = 1,974 lb. (897.3 kg)
ROW = 1,625 lb. (738.6 kg)
BR = 1 : 3.20
PMH = 35" (.89 m)
UW = 601 lb. (273.2 kg)



14. 🚶
5214

MH = 10' 8" (3.3 m)
MR = 7' 3" (2.2 m)
MP = 800 lb. (363.6 kg)
BW = -26 lb. (-7.3 kg)
BAW = 508 lb. (230.9 kg)

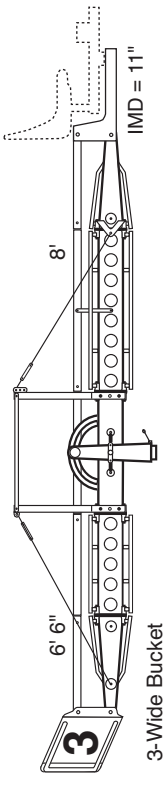
MOW = 2,108 lb. (958.2 kg)
ROW = 778 lb. (353.6 kg)
BR = 1 : 1.00
PMH = 50" (1.3 m)
UW = 482 lb. (219.1 kg)



15. 🚶
5215

MH = 12' (3.7 m)
MR = 8' 11" (2.8 m)
MP = 800 lb. (363.6 kg)
BW = 21 lb. (9.5 kg)
BAW = 521 lb. (236.8 kg)

MOW = 2,305 lb. (1,047.7 kg)
ROW = 822 lb. (373.6 kg)
BR = 1 : 1.23
PMH = 50" (1.3 m)
UW = 500 lb. (227.3 kg)



⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long	2 - 1/4" Blue Cables - 35 1/2" long

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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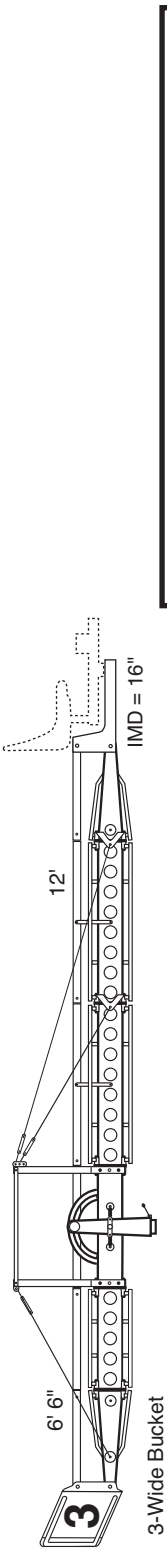
16. 5216

MH = 15' 4" (4.7 m)
MR = 13' 4" (4.07 m)
MP = 538 lb. (244.5 kg)
BW = 150 lb. (68.2 kg)
BAW = 710 lb. (322.7 kg)

MOW = 2,243 lb. (1,019.6 kg)
ROW = 1,095 lb. (497.6 kg)
BR = 1 : 1.85
PMH = 50" (1.3 m)
UW = 560 lb. (254.5 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

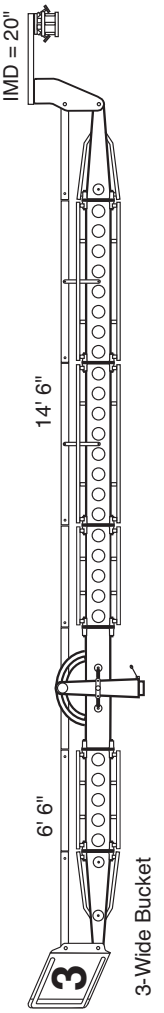
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long	2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" White Cables - 69" long



17. 5217

MH = 17' 4" (5.3 m)
MR = 16' 2" (4.9 m)
MP = 415 lb. (188.6 kg)
BW = 224 lb. (101.6 kg)
BAW = 825 lb. (375 kg)

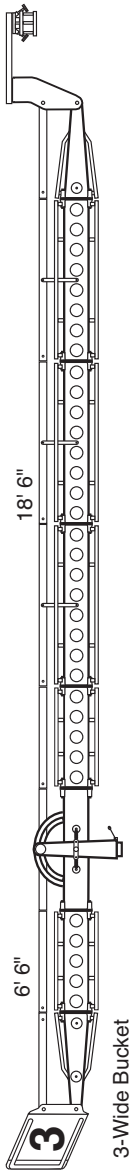
MOW = 2,165 lb. (984 kg)
ROW = 1,265 lb. (575 kg)
BR = 1 : 2.23
PMH = 50" (1.3 m)
UW = 601 lb. (273.2 kg)



18. 5218

MH = 20' 8" (6.3 m)
MR = 20' 8" (6.3 m)
MP = 260 lb. (118.2 kg)
BW = 405 lb. (184.1 kg)
BAW = 1,066 lb. (484.5 kg)

MOW = 2,067 lb. (939.5 kg)
ROW = 1,587 lb. (721.3 kg)
BR = 1 : 2.85
PMH = 50" (1.3 m)
UW = 661 lb. (300.5 kg)

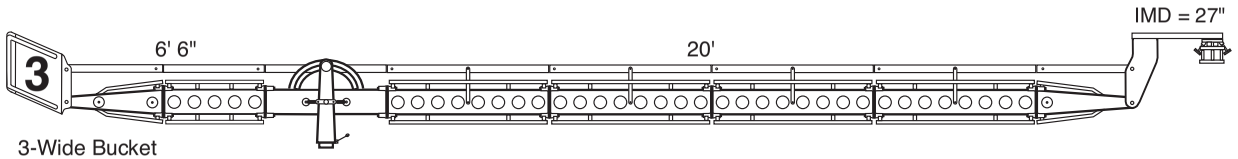


NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

19. 5219

MH = 22' (6.7 m)
MR = 22' 3" (6.8 m)
MP = 200 lb. (90.1 kg)
BW = 519 lb. (235.9 kg)
BAW = 1,198 lb. (544.5 kg)

MOW = 2,014 lb. (915.4 kg)
ROW = 1,750 lb. (795.4 kg)
BR = 1 : 3.08
PMH = 50" (1.3 m)
UW = 679 lb. (308.6 kg)



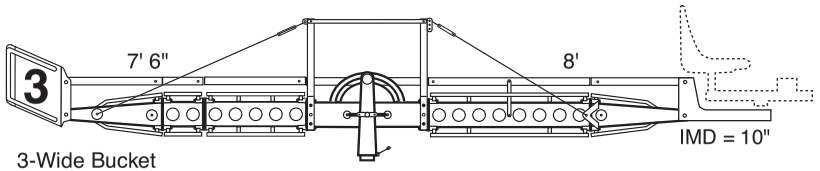
3-Wide Bucket

20. 5220

MH = 12' 10" (3.9 m)
MR = 8' 10" (2.67 m)
MP = 800 lb. (363.6 kg)
BW = -11 lb. (-5 kg)
BAW = 534 lb. (242.7 kg)

MOW = 2,190 lb. (950 kg)
ROW = 613 lb. (278.6 kg)
BR = 1 : 1.07
PMH = 60" (1.5 m)
UW = 524 lb. (238.2 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.



3-Wide Bucket

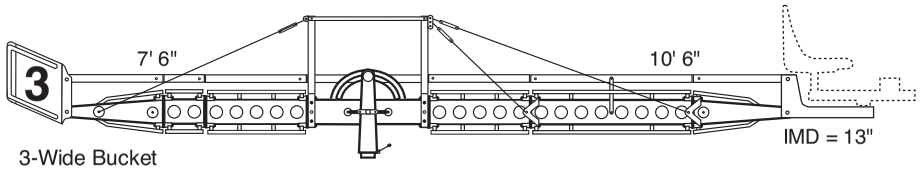
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 35 1/4" long

21. 5221

MH = 14' 11" (4.5 m)
MR = 11' 7" (3.5 m)
MP = 783 lb. (355.9 kg)
BW = 59 lb. (26.7 kg)
BAW = 625 lb. (284.1 kg)

MOW = 2,504 lb. (1,138.2 kg)
ROW = 949 lb. (431.4 kg)
BR = 1 : 1.4
PMH = 60" (1.5 m)
UW = 566 lb. (257.3 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.



3-Wide Bucket

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" Blue Cables - 29 1/2" long 2 - 1/4" Blue Cables - 23" long

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

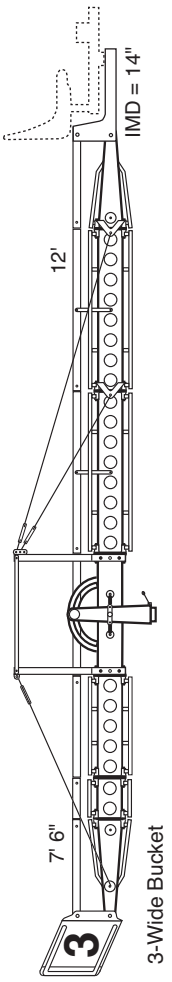
22. 5222

MH = 16' 2" (5 m)
MR = 13' 2" (4 m)
MP = 658 lb. (299.1 kg)
BW = 103 lb. (46.7 kg)
BAW = 686 lb. (311.8 kg)

MOW = 2,397 lb. (1,089.5 kg)
ROW = 1,037 lb. (471.4 kg)
BR = 1 : 1.60
PMH = 60" (1.5 m)
UW = 583 lb. (265 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

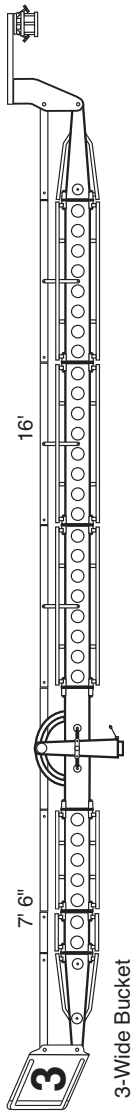
CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long



23. 5223

MH = 19' 6" (5.9 m)
MR = 17' 7" (5.4 m)
MP = 423 lb. (192.3 kg)
BW = 246 lb. (111.8 kg)
BAW = 889 lb. (404.1 kg)

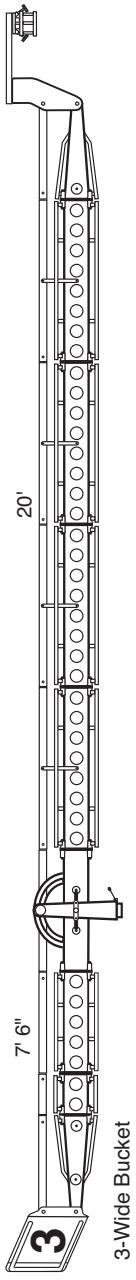
MOW = 2,215 lb. (1,006.8 kg)
ROW = 1,312 lb. (596.4 kg)
BR = 1 : 2.13
PMH = 60" (1.5 m)
UW = 643 lb. (292.3 kg)



24. 5224

MH = 22' 9" (6.9 m)
MR = 22' (6.7 m)
MP = 273 lb. (124.1 kg)
BW = 421 lb. (191.4 kg)
BAW = 1,124 lb. (510.9 kg)

MOW = 2,125 lb. (965.9 kg)
ROW = 1,618 lb. (735.5 kg)
BR = 1 : 2.67
PMH = 60" (1.5 m)
UW = 703 lb. (319.5 kg)

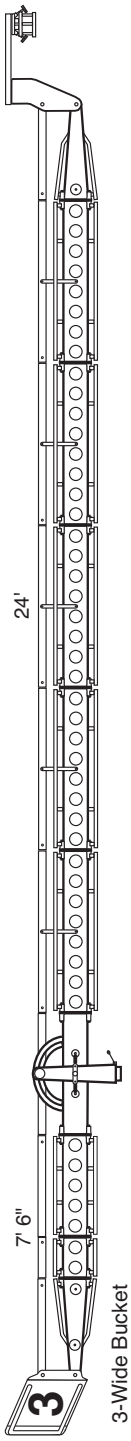


NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

25. 5225

MH = 26' 1" (7.9 m)
MR = 26' 5" (8.1 m)
MP = 163 lb. (74.1 kg)
BW = 630 lb. (286.4 kg)
BAW = 1,393 lb. (633.2 kg)

MOW = 2,081 lb. (945.9 kg)
ROW = 1,967 lb. (894.1 kg)
BR = 1 : 3.20
PMH = 60" (1.5 m)
UW = 763 lb. (346.8 kg)



3-Wide Bucket

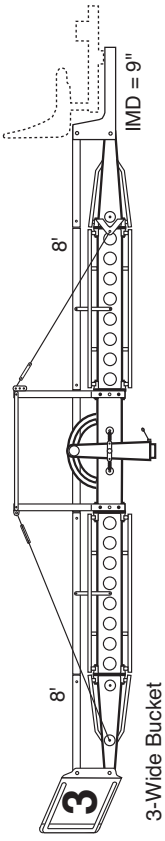
26. 5226

MH = 13' 3" (4 m)
MR = 8' 9" (2.67 m)
MP = 800 lb. (363.6 kg)
BW = -16 lb. (-7.3 kg)
BAW = 534 lb. (242.7 kg)

MOW = 2,134 lb. (970 kg)
ROW = 804 lb. (365.5 kg)
BR = 1 : 1.00
PMH = 65" (1.6 m)
UW = 518 lb. (262.7 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Blue Cables - 35 1/4" long



3-Wide Bucket

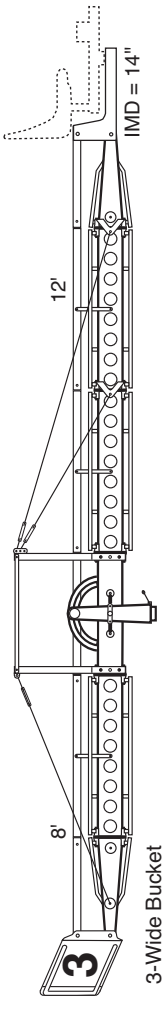
27. 5227

MH = 16' 7" (5.1 m)
MR = 13' 2" (4 m)
MP = 708 lb. (321.8 kg)
BW = 89 lb. (40.5 kg)
BAW = 666 lb. (302.7 kg)

MOW = 2,440 lb. (1,109.1 kg)
ROW = 1,004 lb. (456.4 kg)
BR = 1 : 1.50
PMH = 65" (1.6 m)
UW = 577 lb. (262.3 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long



3-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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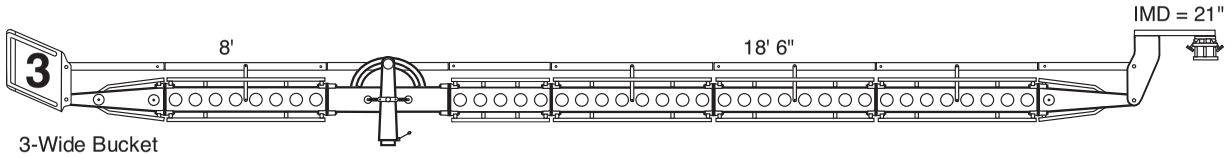
28. 5228

MH = 21' 11" (6.7 m)
MR = 20' 3" (6.1 m)
MP = 358 lb. (162.7 kg)
BW = 324 lb. (147.3 kg)
BAW = 1,003 lb. (455.9 kg)

MOW = 2,192 lb. (996.4 kg)
ROW = 1,454 lb. (660.9 kg)
BR = 1 : 2.31
PMH = 65" (1.6 m)
UW = 679 lb. (308.6 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



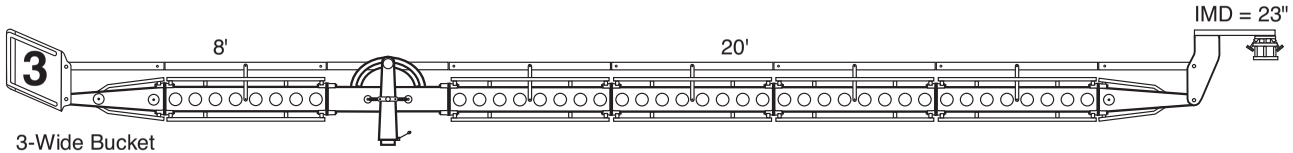
3-Wide Bucket

29. 5229

MH = 23' 2" (7 m)
MR = 21' 11" (6.6 m)
MP = 303 lb. (137.7 kg)
BW = 389 lb. (176.8 kg)
BAW = 1,086 lb. (493.6 kg)

MOW = 2,155 lb. (979.5 kg)
ROW = 1,562 lb. (710 kg)
BR = 1 : 2.50
PMH = 65" (1.6 m)
UW = 697 lb. (316.8 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



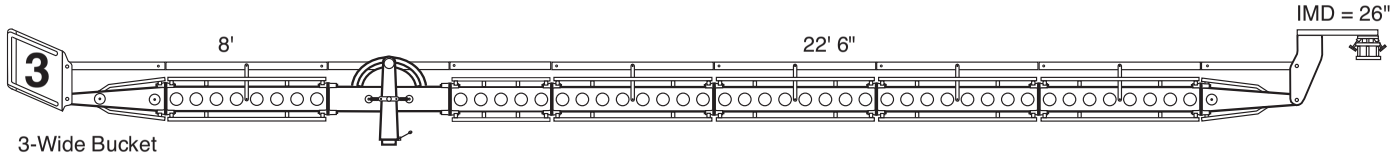
3-Wide Bucket

30. 5230

MH = 25' 4" (7.7 m)
MR = 24' 8" (7.5 m)
MP = 228 lb. (103.6 kg)
BW = 510 lb. (231.8 kg)
BAW = 1,249 lb. (567.7 kg)

MOW = 2,122 lb. (964.5 kg)
ROW = 1,766 lb. (802.7 kg)
BR = 1 : 2.81
PMH = 65" (1.6 m)
UW = 739 lb. (335.9 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



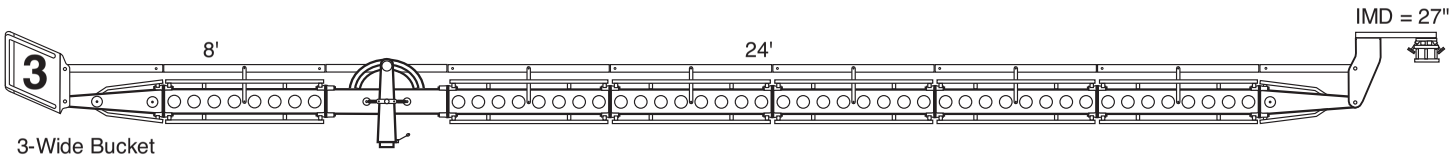
3-Wide Bucket

31. 5231

MH = 26' 6" (8 m)
MR = 26' 3" (8 m)
MP = 188 lb. (85.5 kg)
BW = 582 lb. (264.5 kg)
BAW = 1,339 lb. (608.6 kg)

MOW = 2,100 lb. (954.5 kg)
ROW = 1,879 lb. (854.1 kg)
BR = 1 : 3.00
PMH = 65" (1.6 m)
UW = 757 lb. (344.1 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



3-Wide Bucket

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

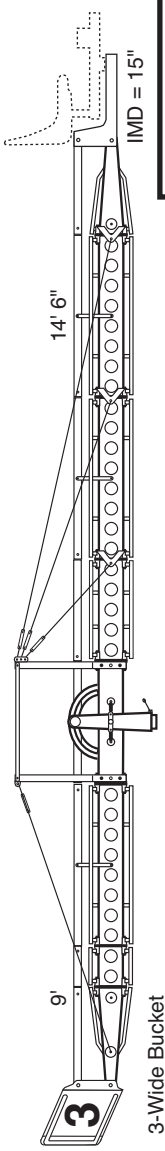
32. 5232

MH = 19' 6" (6 m)
MR = 15' 9" (4.8 m)
MP = 636 lb. (289.1 kg)
BW = 130 lb. (59.1 kg)
BAW = 773 lb. (351.4 kg)

MOW = 2,426 lb. (1,102.7 kg)
ROW = 1,133 lb. (515 kg)
BR = 1 : 1.61
PMH = 75" (1.9 m)
UW = 643 lb. (292.3 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 23" long 2 - 1/4" Red Cables - 29 1/2" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" White Cables - 29 1/2" long 2 - 1/4" White Cables - 35 1/4" long 2 - 1/4" Blue Cables - 29 1/2" long



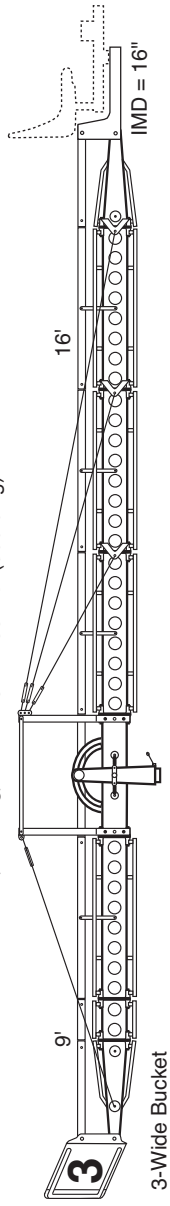
33. 5233

MH = 20' 8" (6.3 m)
MR = 17' 4" (5.3 m)
MP = 548 lb. (249.1 kg)
BW = 174 lb. (79.1 kg)
BAW = 835 lb. (379.5 kg)

MOW = 2,364 lb. (1,074.5 kg)
ROW = 1,210 lb. (550 kg)
BR = 1 : 1.78
PMH = 75" (1.9 m)
UW = 661 lb. (300.5 kg)

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/2" long

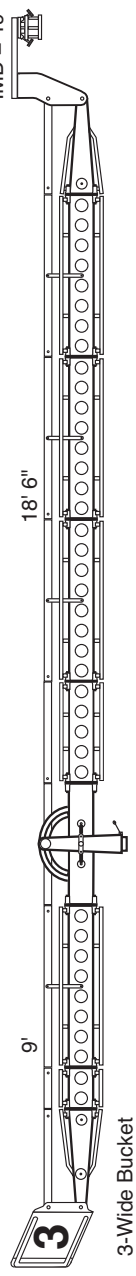


34. 5234

MH = 22' 8" (6.9 m)
MR = 20' 1" (6.1 m)
MP = 432 lb. (196.4 kg)
BW = 265 lb. (120.4 kg)
BAW = 968 lb. (440 kg)

MOW = 2,290 lb. (1,040.9 kg)
ROW = 1,381 lb. (627.7 kg)
BR = 1 : 2.06
PMH = 75" (1.9 m)
UW = 703 lb. (319.5 kg)

CSR = Cable System Recommended on this configuration **for payloads over 400 lb.**



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

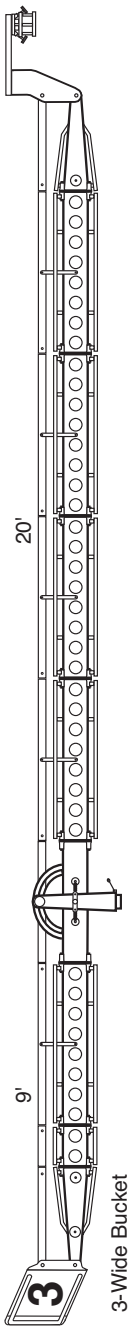
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

35. 5235

MH = 24' (7.3 m)
MR = 21' 8" (6.6 m)
MP = 377 lb. (190 kg)
BW = 317 lb. (144.1 kg)
BAW = 1,038 lb. (471.8 kg)

MOW = 2,251 lb. (1,042.7 kg)
ROW = 1,473 lb. (655.9 kg)
BR = 1 : 2.22
PMH = 75" (1.9 m)
UW = 721 lb. (327.7 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**

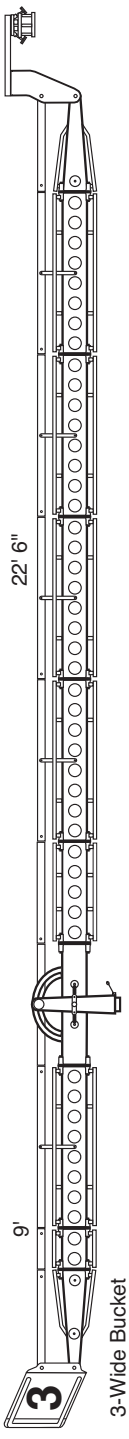


36. 5236

MH = 26' 2" (7.9 m)
MR = 24' 5" (7.4 m)
MP = 288 lb. (130.9 kg)
BW = 427 lb. (194.1 kg)
BAW = 1,190 lb. (540.9 kg)

MOW = 2,206 lb. (1,002.7 kg)
ROW = 1,663 lb. (755.7 kg)
BR = 1 : 2.50
PMH = 75" (1.9 m)
UW = 763 lb. (346.8 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**

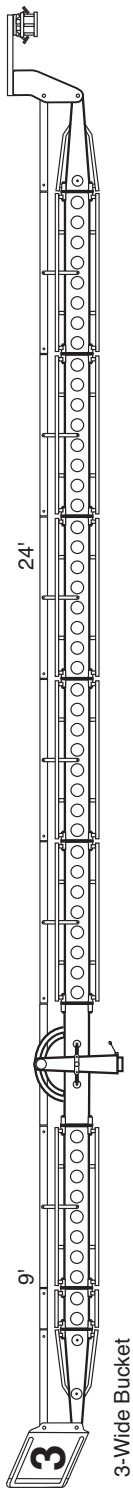


37. 5237

MH = 27' 4" (8.3 m)
MR = 26' (7.9 m)
MP = 248 lb. (112.7 kg)
BW = 493 lb. (224.1 kg)
BAW = 1,274 lb. (579.1 kg)

MOW = 2,184 lb. (992.7 kg)
ROW = 1,768 lb. (803.7 kg)
BR = 1 : 2.67
PMH = 75" (1.9 m)
UW = 781 lb. (355 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**

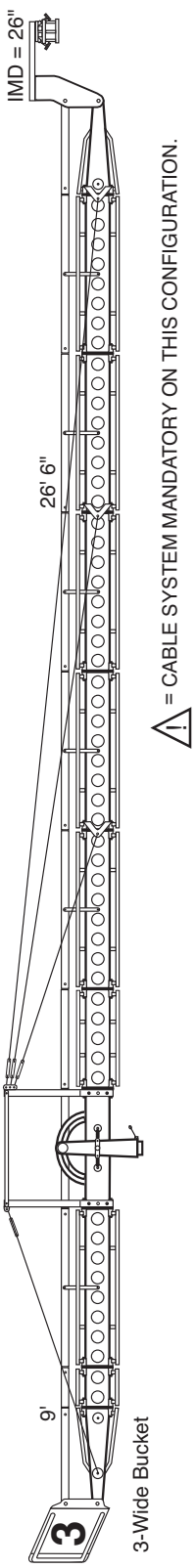


The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

38. 5238

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/2" long 4 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" Red Cables - 29 1/2" long 2 - 1/4" White Cables - 29 1/2" long 2 - 1/4" Blue Cables - 29 1/2" long



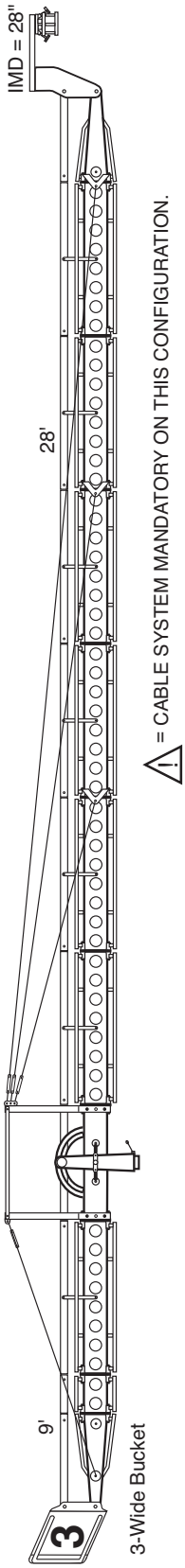
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

MH = 29' 5" (8.9 m)
MR = 28' 8" (8.7 m)
MP = 178 lb. (80.9 kg)
BW = 617 lb. (280.5 kg)
BAW = 1,440 lb. (654.5 kg)

MOW = 2,140 lb. (972.7 kg)
ROW = 1,980 lb. (900 kg)
BR = 1 : 2.94
PMH = 75" (1.9 m)
UW = 823 lb. (374.1 kg)

39. 5239

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/2" long 6 - 1/4" Red Cables - 47 1/2" long 4 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long

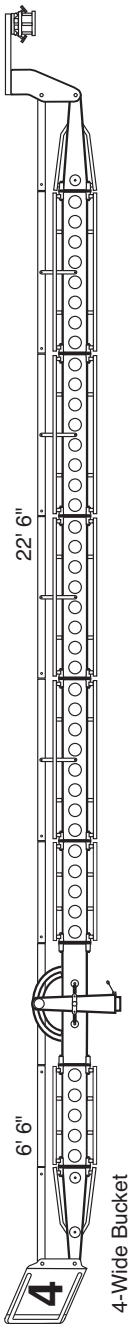


⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

MH = 30' 6" (9.2 m)
MR = 30' 4" (9.2 m)
MP = 148 lb. (67.3 kg)
BW = 692 lb. (314.6 kg)
BAW = 1,533 lb. (696.8 kg)

MOW = 2,144 lb. (974.5 kg)
ROW = 2,087 lb. (948.6 kg)
BR = 1 : 3.11
PMH = 75" (1.9 m)
UW = 841 lb. (382.3 kg)

40. 5240



CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**

MH = 24' (7.3 m)
MR = 25' (7.6 m)
MP = 177 lb. (80.5 kg)
BW = 597 lb. (271.4 kg)
BAW = 1,318 lb. (599.1 kg)

MOW = 2,108 lb. (958.2 kg)
ROW = 1,920 lb. (872.7 kg)
BR = 1: 3.46
PMH = 50" (1.3 m)
UW = 721 lb. (327.7 kg)

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

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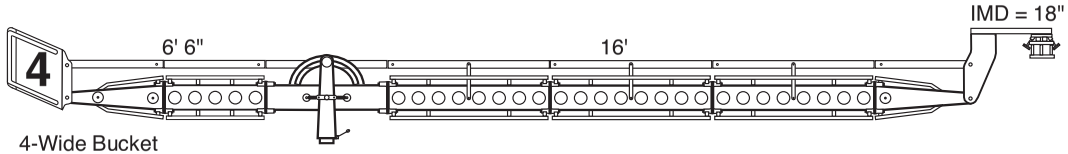
41. 5241

MH = 18' 8" (5.7 m)
MR = 17' 6" (5.3 m)
MP = 399 lb. (181.3 kg)
BW = 228 lb. (103.6 kg)
BAW = 870 lb. (395.5 kg)

MOW = 2,251 (1,023.1 kg)
ROW = 1,337 lb. (607.7 kg)
BR = 1 : 2.46
PMH = 65" (1.6 m)
UW = 642 lb. (291.8 kg)



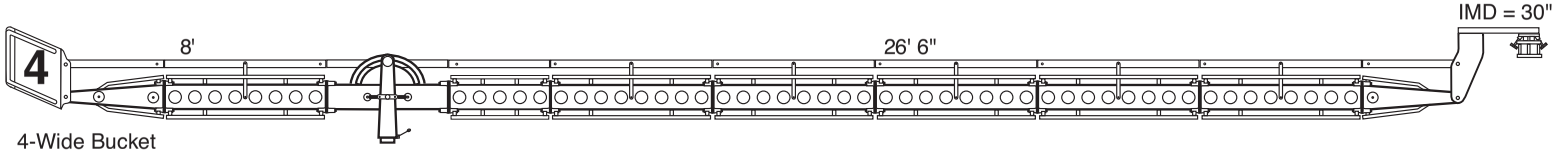
4-Wide Bucket

42. 5242

MH = 28' 6" (8.6 m)
MR = 29' (8.8 m)
MP = 160 lb. (72.8 kg)
BW = 676 lb. (307.3 kg)
BAW = 1,475 lb. (670.5 kg)

MOW = 2,169 lb. (985.9 kg)
ROW = 2,060 lb. (936.2 kg)
BR = 1 : 3.31
PMH = 65" (1.6 m)
UW = 799 lb. (363.2 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



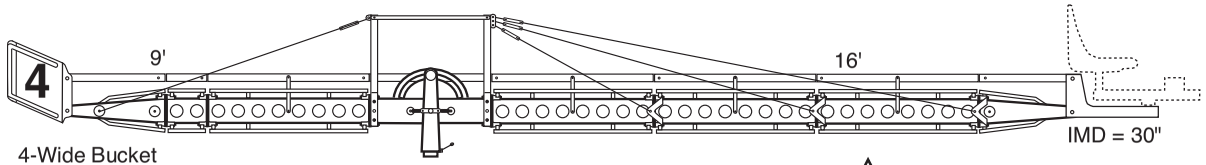
4-Wide Bucket

43. 5243

MH = 20' 8" (6.3 m)
MR = 18' 6" (5.3 m)
MP = 582 lb. (264.5 kg)
BW = 169 lb. (76.8 kg)
BAW = 835 lb. (379.5 kg)

MOW = 2,444 lb. (1,110.9 kg)
ROW = 1,209 lb. (549.5 kg)
BR = 1 : 1.78
PMH = 75" (1.9 m)
UW = 666 lb. (302.7 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/2" long



4-Wide Bucket

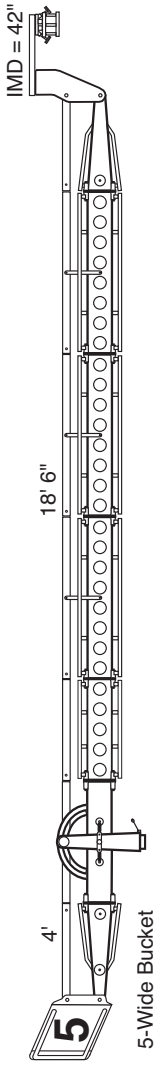
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

44. 5244

MH = 18' 6" (5.7 m)
MR = 22' (6.7 m)
MP = 153 lb. (69.5 kg)
BW = 802 lb. (364.4 kg)
BAW = 1,436 lb. (652.7 kg)

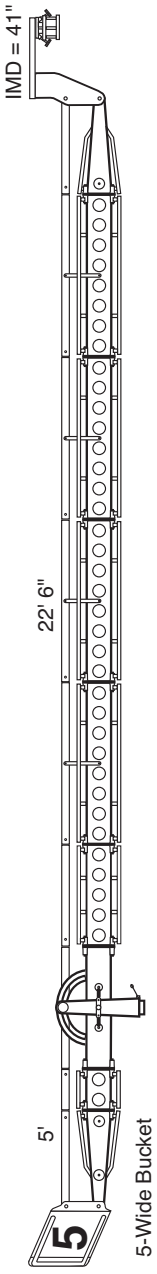
MOW = 2,300 lb. (1,045.5 kg)
ROW = 2,198 lb. (998.8 kg)
BR = 1 : 4.63
PMH = 35" (.89 m)
UW = 634 lb. (288.2 kg)



45. 5245

MH = 22' 8" (6.9 m)
MR = 25' 11" (7.9 m)
MP = 137 lb. (62.2 kg)
BW = 900 lb. (408.6 kg)
BAW = 1,618 lb. (735.5 kg)

MOW = 2,368 lb. (1,076.3 kg)
ROW = 2,361 lb. (1,073.2 kg)
BR = 1 : 4.50
PMH = 50" (1.3 m)
UW = 718 lb. (326.4 kg)

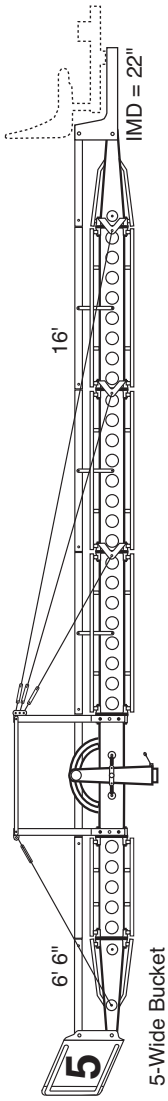


46. 5246

MH = 18' 7" (5.7 m)
MR = 17' 10" (5.5 m)
MP = 510 lb. (232 kg)
BW = 258 lb. (117.3 kg)
BAW = 892 lb. (405.5 kg)

MOW = 2,656 lb. (1,207.3 kg)
ROW = 1,359 lb. (617.7 kg)
BR = 1 : 2.46
PMH = 50" (1.3 m)
UW = 634 lb. (288.2 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 38" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long



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

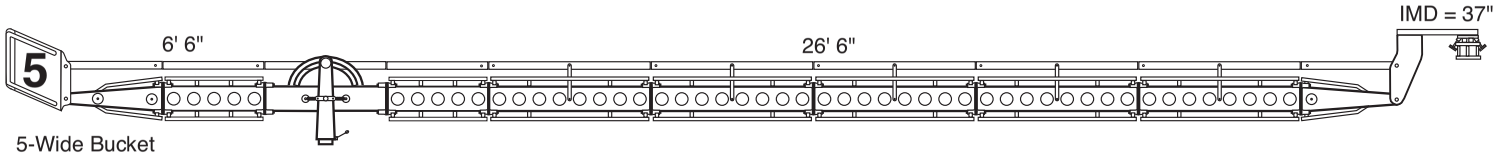
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

47. 5247

MH = 27' 4" (8.3 m)
MR = 29' 7" (9 m)
MP = 147 lb. (68.2 kg)
BW = 913 lb. (415 kg)
BAW = 1,709 lb. (776.8 kg)

MOW = 2,456 lb. (1,116.4 kg)
ROW = 2,395 lb. (1,083.6 kg)
BR = 1 : 4.08
PMH = 50" (1.3 m)
UW = 796 lb. (361.8 kg)

CSR = Cable System Recommended on this configuration **for payloads over 135 lb.**



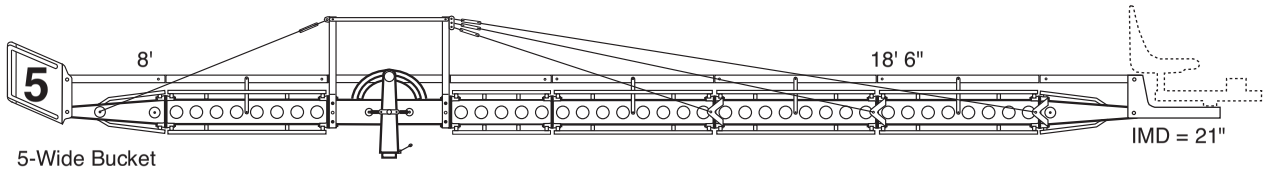
5-Wide Bucket

48. 5248

MH = 21' 11" (6.7 m)
MR = 20' 3" (6.1 m)
MP = 511 lb. (232.3 kg)
BW = 320 lb. (145.5 kg)
BAW = 1,152 lb. (523.6 kg)

MOW = 2,843 lb. (1,292.3 kg)
ROW = 1,599 lb. (726.8 kg)
BR = 1 : 2.31
PMH = 65" (1.6 m)
UW = 832 lb. (378.2 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" Red Cables - 29 1/2" long 2 - 1/4" White Cables - 29 1/2" long 2 - 1/4" Blue Cables - 29 1/2" long



5-Wide Bucket

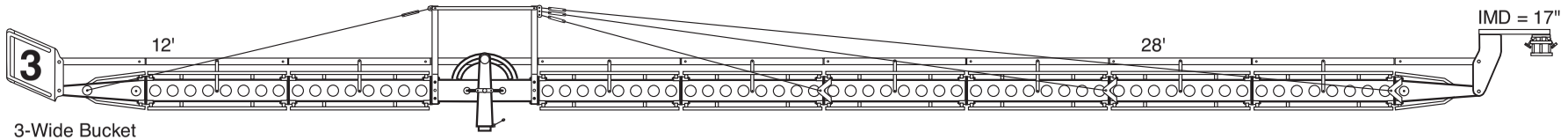
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

49.+ 5252

MH = 33' 2" (10.1 m)
MR = 29' 5" (9 m)
MP = 167 lb. (75.9 kg)
BW = 258 lb. (117 kg)
BAW = 1,123 lb. (510.5 kg)

MOW = 1,932 lb. (878.2 kg)
ROW = 1,572 lb. (714.6 kg)
BR = 1 : 2.33
PMH = 105" (2.7 m)
UW = 865 lb. (393.2 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 42" long 2 - 3/8" Yellow Cables - 5' 0" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 6 - 1/4" Red Cables - 47 1/2" long 4 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long



3-Wide Bucket

+ Recommended for use on mobile cranes with 3 wide bucket and maximum 30 leads.

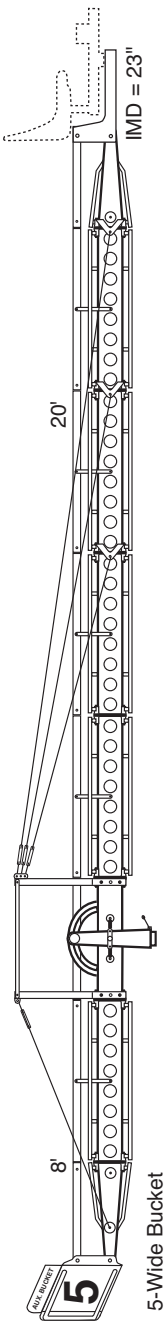
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

50. 5253

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 35 1/4" long

MH = 23' 2" (7.1 m)
MR = 23' 11" (7.3 m)
MP = 600 lb. (272.7 kg)
BW = 368 lb. (167.3 kg)
BAW = 1,170lb. (531.8 kg)

MOW = 3,925 lb. (1,784 kg)
ROW = 1,643 lb. (746.8 kg)
BR = 1 : 2.5
PMH = 65" (1.7 m)
UW =802 lb. (365 kg)



5-Wide Bucket
with Auxiliary Bucket

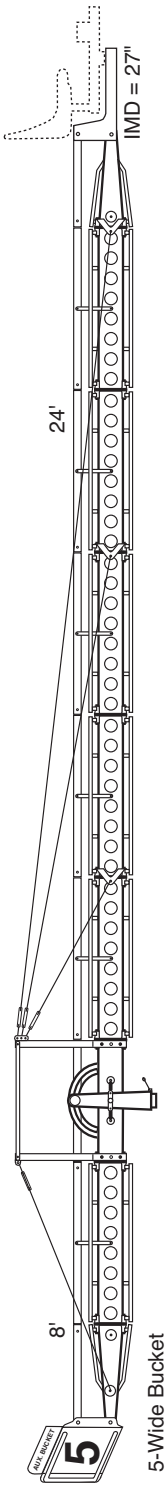
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

51. 5254

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 4 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long

MH = 26' 6" (8.1 m)
MR = 26' 3" (8 m)
MP = 591 lb. (268.7 kg)
BW = 563 lb. (256 kg)
BAW = 1,428 lb. (649 kg)

MOW = 3,792 lb. (1,723.6 kg)
ROW = 1,968 lb. (894.5 kg)
BR = 1 : 3
PMH = 65" (1.7 m)
UW = 865 lb. (393 kg)



5-Wide Bucket
with Auxiliary Bucket

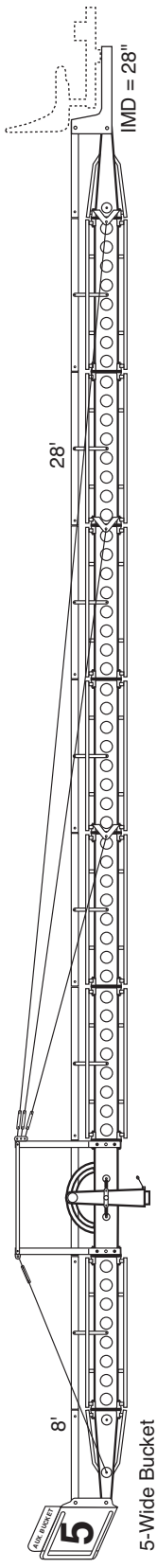
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

52. 5255

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 6 - 1/4" Red Cables - 47 1/2" long 4 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long

MH = 29' 9" (9.1 m)
MR = 30' 4" (9.2 m)
MP = 438 lb. (199 kg)
BW = 804 lb. (365.5 kg)
BAW = 1,732 lb. (787.3 kg)

MOW = 3,703 lb. (1,683.2 kg)
ROW = 2,340 lb. (1,063.6 kg)
BR = 1 : 3.5
PMH = 65" (1.7 m)
UW = 928 lb. (422 kg)



5-Wide Bucket
with Auxiliary Bucket

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

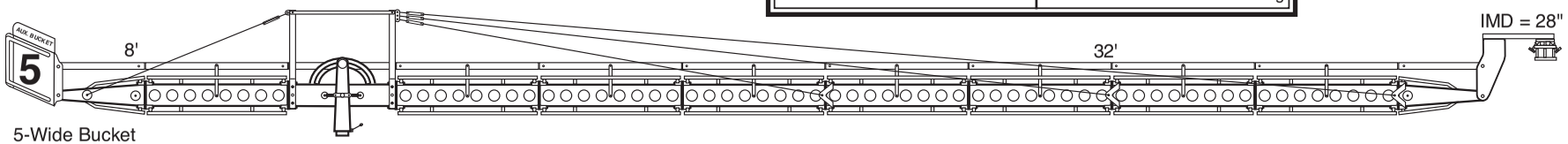
The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559.

53. 5656

MH = 33' 2" (10.1 m)
MR = 34' 4" (10.5 m)
MP = 316 lb. (143.6 kg)
BW = 1,073 lb. (487.7 kg)
BAW = 2,064 lb. (938.2 kg)

MOW =3,644 lb.(1,656.4 kg)
ROW = 2,739 lb.(1,245 kg)
BR = 1 : 4
PMH = 65" (1.7 m)
UW = 991 lb. (451kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 8 - 1/4" Red Cables - 47 1/2" long 6 - 1/4" White Cables - 47 1/2" long 4 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

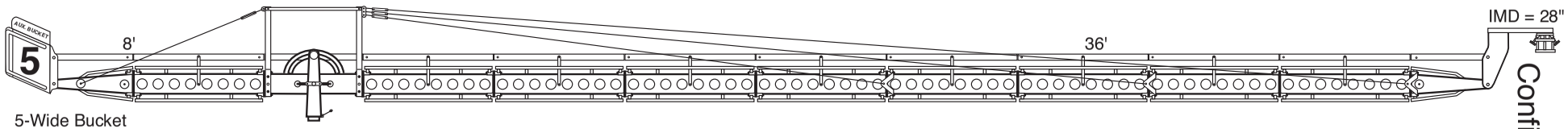
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

54. 5657

MH = 36' 5" (11.1 m)
MR = 38' (11.6 m)
MP = 212 lb. (96.4 kg)
BW = 1,380 lb. (627.3 kg)
BAW = 2,434 lb.(1,106.4 kg)

MOW = 3,600 lb.(1,636.4 kg)
ROW = 3,177 lb.(1,444.1 kg)
BR = 1: 4.5
PMH = 65" (1.7 m)
UW = 1,054 lb. (479 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 10 - 1/4" Red Cables - 47 1/2" long 8 - 1/4" White Cables - 47 1/2" long 6 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

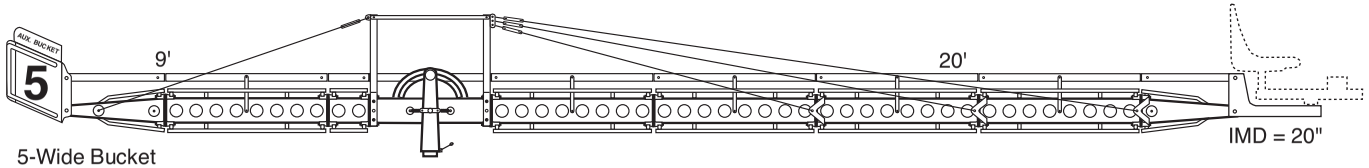
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

55. 5658

MH = 24' (7.3 m)
MR = 21' 8" (6.6 m)
MP = 600 lb. (272.7 kg)
BW = 295 lb. (134.1 kg)
BAW = 1,124 lb. (510.9 kg)

MOW = 3,700 lb. (1,681.8kg)
ROW = 1,559 lb. (708.6 kg)
BR = 1: 2.2
PMH = 75" (1.9 m)
UW = 829 lb. (376.8 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 2 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

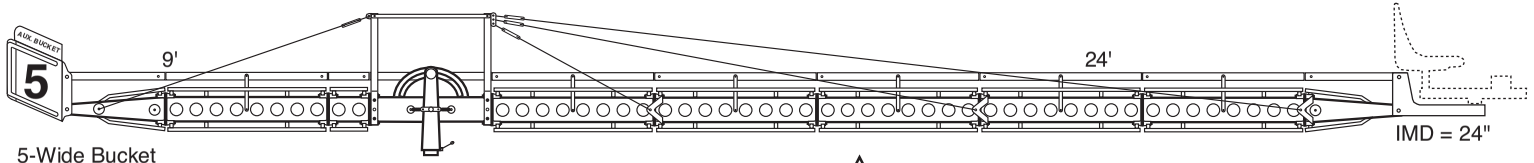
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

56. 5659

MH = 27' 4" (8.3 m)
MR = 26' (7.9 m)
MP = 600 lb. (272.7 kg)
BW = 491 lb. (223.2 kg)
BAW = 1,385 lb. (629.5 kg)

MOW = 3,921 lb. (1,782.3 kg)
ROW = 1,881 lb. (855 kg)
BR = 1: 2.67
PMH = 75" (1.9 m)
UW = 894 lb. (406 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 4 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

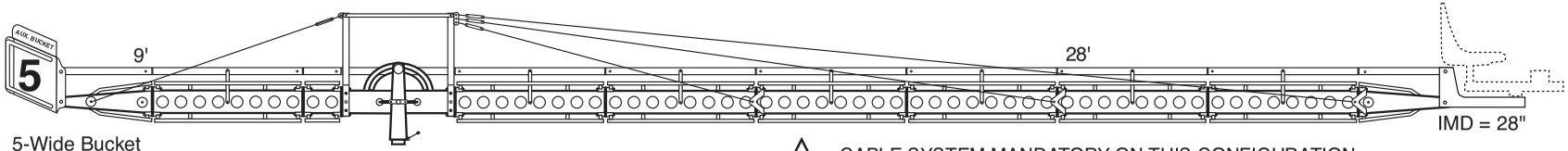
NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

57. 5660

MH = 30' 8" (9.3 m)
MR = 30' 4" (9.2 m)
MP = 547 lb. (248.6 kg)
BW = 635 lb. (288.6 kg)
BAW = 1,593 lb. (724.1 kg)

MOW = 3,842 lb.(1,746.4kg)
ROW = 2,148 lb.(976.4 kg)
BR = 1: 3.11
PMH = 75" (1.9 m)
UW = 958 lb. (435.5 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 6 - 1/4" Red Cables - 47 1/2" long 4 - 1/4" White Cables - 47 1/2" long 2 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

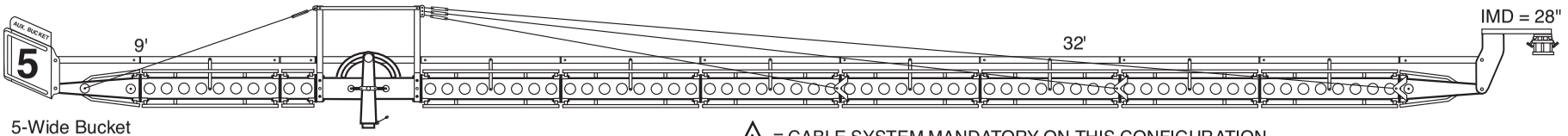
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

58. 5661

MH = 33' 11" (10.3 m)
MR = 34' 4" (10.5 m)
MP = 395 lb. (179.5 kg)
BW = 930 lb. (422.7 kg)
BAW = 1,953 lb. (887.7 kg)

MOW = 3,755 lb. (1,706.8 kg)
ROW = 2,569 lb. (1,167.7 kg)
BR = 1: 3.56
PMH = 75" (1.9 m)
UW = 1,023 lb. (465 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 8 - 1/4" Red Cables - 47 1/2" long 6 - 1/4" White Cables - 47 1/2" long 4 - 1/4" Blue Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

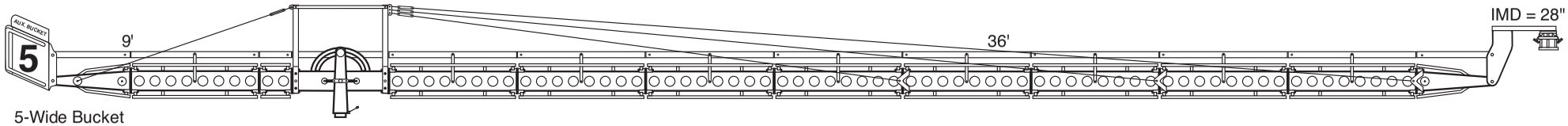
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

59. 5662

MH = 37' 4" (11.4 m)
MR = 38' 4" (11.7 m)
MP = 282 lb. (128.2 kg)
BW = 1,207 lb. (548.6 kg)
BAW = 2,294 lb. (1,042.7 kg)

MOW = 3,704 lb. (1,683.6 kg)
ROW = 2,969 lb. (1,349.5 kg)
BR = 1: 4
PMH = 75" (1.9 m)
UW = 1,087 lb. (494 kg)

CABLES	
Rear	Front
2 - 3/8" Yellow Cables - 57 1/2" long 2 - 3/8" Yellow Cables - 12" long	2 - 1/4" Red Cables - 10' 8" long 2 - 1/4" White Cables - 6' 9" long 2 - 1/4" Blue Cables - 35 1/4" long 4 - 1/4" Red Cables - 47 1/2" long 2 - 1/4" White Cables - 47 1/2" long



5-Wide Bucket
with Auxiliary Bucket

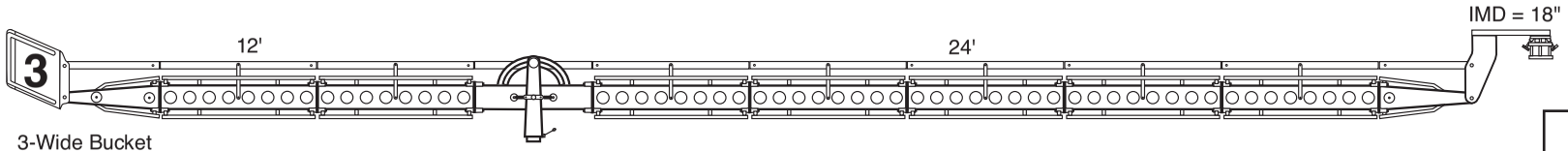
⚠ = CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

60.+ 5249

MH = 29' 9" (9 m)
MR = 25' 6" (8 m)
MP = 174 lb. (79 kg)
BW = 227 lb. (103 kg)
BAW = 950 lb. (432 kg)

MOW = 1,472 lb. (669 kg)
ROW = 1,355 lb. (616 kg)
BR = 1 : 2
PMH = 105" (2.67 m)
UW = 723 lb. (329 kg)

CSR = Cable System Recommended on this configuration **for payloads over 150 lb.**



3-Wide Bucket

+ Recommended for use on mobile cranes with 3 wide bucket and maximum 30 leads.

NOTE: If any part of this manual is faxed or transmitted to a client, the list of warnings on page 48 MUST be attached.

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, 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.

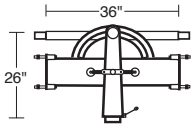
The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559 or 1-818-764-6726.

Parts and Accessories

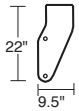
All weights are based on scale accuracy of 2%.

Cable System : 63.5 - 84.5 lb.
Bucket Seat: 17 lb.
Balanced TV (Foot-Operated) TURRET: Aluminum - 64 lb. (29 kg)
Steel - 117 lb. (53 kg)
Balanced Film (Hand-Operated) TURRET: Alum. w/3 Arms - 117 lb. (53 kg)
Steel w/3 Arms - 136 lb. (63 kg)
Balanced Free Head Turret: 32 lb. (15 kg)
(Balanced turrets eliminate arm twist.)

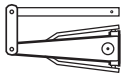
Center Post: 188 lb. (81.8 kg)
w/ Spring Fine Balancing System (Pat. Pend.)



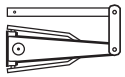
Remote Nose: 13 lb. (5.9 kg)



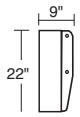
2.5 Ft. Bucket Segment (with handle):
57 lb. (18.4 kg)



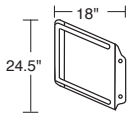
2.5 Ft. Nose Segment: 40.5 lb. (18.4 kg)



Short Bucket: 51 lb. (23.2 kg)
21 Weights = 577.5 lb. (262.5 kg)



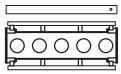
Buckets: 3 Wide - 68 lb. (30.1 kg)
42 Weights =1,155 lb. (525 kg)
4 Wide - 73 lb. (33.1 kg)
44 Weights = 1,210 lb. (550 kg)
5 Wide - 83 lb. (37.7 kg)
55 Weights = 1,512 lb. (687.5 kg)



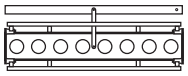
Auxiliary 5 Wide Bucket: 30.5 lb. (13.9 kg)
Capacity: 30 Weights = 825 lb. (375 kg)

1 Ft. Section: 24 lb. (10.9 kg)

2.5 Ft. Section: 42 lb. (19.1 kg)

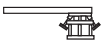


4 Ft. Section: 60 lb. (27.3 kg)



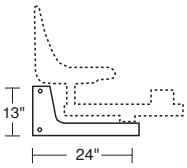
Weight: 27.5 lb. (12.5 kg)

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

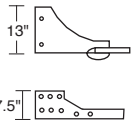


Note: In order to achieve optimal balance, ideal distance from nose bearings to camera mount (IMD) will differ from arm to arm.

Straight Nose: 36 lb. (16.4 kg)
(Manned Use) Choice of turret
w/ bucket seat shown
DO NOT USE NOSE INVERTED FOR MANNED USE.



Offset Nose: 50 lb. (23 kg)
Adjustable Length: 12" - 36"



Lenny II+ XR (extra rigid)
Camera Extension: 30.5 lb. (13.9 kg)

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 weight 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 uses. Check payload.

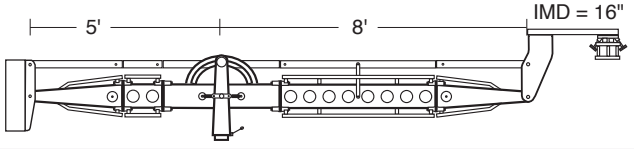
= CABLE SYSTEM MANDATORY ON THIS CONFIGURATION.

CSR = Cable System Recommended on this configuration **for payloads over ____ lb.**

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

MH = 11' 7" (3.5 m)
MR = 9' 2" (2.2 m)
MP = 303 lb. (137.7 kg)
BW = 92 lb. (41.8 kg)
BAW = 556 lb. (252.7 kg)

MOW = 1,344 lb. (610.9 kg)
ROW = 912 lb. (414.5 kg)
BR = 1 : 1.60
PMH = 45" (1.15 m)
UW = 464 lb. (210.9 kg)



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Lenny Arm ® II Plus Triple Cable System Checklist

Quantity	Item Description		Quantity	Item Description
2	Front Cable, 10' x 8"	Red	2	Center Post Brackets
2	Front Cable, 6' x 10"	White	2	Center Post Bracket Spreaders
2	Front Cable, 35" x 1/2"	Blue	8	Center Post Bolts 5/8" x 2 1/2"
10	Extension Cable, 4'	Red	8	Center Post Washers 5/8"
8	Extension Cable, 4'	White	6	Turn Buckles 1/2" x 6" (Front)
6	Extension Cable, 4'	Blue	2	Turn Buckles 5/8" x 6" (Rear)
2	Front Cable, 1/4" x 29 1/2"	Red	6	Clevis Rods
2	Front Cable, 1/4" x 29 1/2"	White	6	Clip Pins
2	Front Cable, 1/4" x 29 1/2"	Blue	1	Bolt Rear, 5/8" x 1/8"
2	Front Cable, 1/4" x 29 1/2"		1	Nut 5/8"
2	Rear Cable, 3/8" x 57 1/2"	Yellow	4	Washers Rear 5/8" x 1/8"
2	Rear Cable, 3/8" x 42"	Yellow	38	Quick Release Pins, 3/8" x 1"
2	Rear Cable, 3/8" x 29"	Yellow	4	Quick Release Pins, 1/2" x 1 1/2"
2	Rear Cable, 3/8" x 10"	Yellow	4	Quick Release Pins, 3/8" x 1 1/2"
2	Rear Cable, 3/8" x 5'		2	Quick Release Pins, 1/4" x 2 1/2" (Spring System)
6	Mid Arm Cable Brackets		1	Open and Close End Wrench, 15/16"
2	Rear Cable Brackets, Long		1	Carrying Case
2	Rear Cable Brackets, Short		1	Carrying Case Cart
			1	Lenny Arm II Plus User Guide

Center Post #5260

Bucket Segment #5261

4 Foot Section #5269

Fin Guard with Pins #1074

Nose Segment #5262

2 1/2 Foot Section #5265

Remote Nose #5288

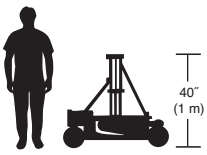
Straight Nose #4851

User Guide #261

1 Foot Rear Section #5264

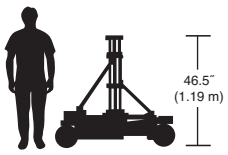
The Operator should be Qualified. For Assistance Please call our 24 hour Customer Service at 1-888-883-6559.

The Lenny Arm II Plus 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)

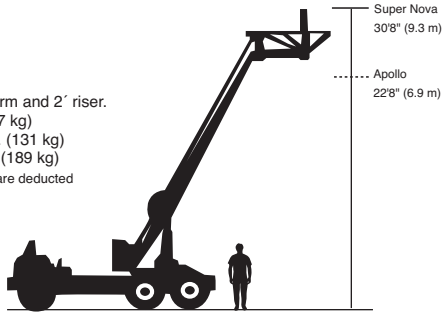


Hybrid
With High Post Kit

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

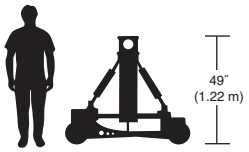
Mobile Crane
For Super Nova / Apollo With Platform and 2′ riser.
- Maximum Payload = 2,700 lb. (1,227 kg)
- Platform at half-circle weighs 285 lb. (131 kg)
- Platform at full-circle weighs 412 lb. (189 kg)

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

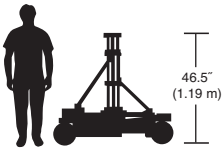
Maximum Payload 2,900 lb. (1,318 kg)
Operating Weight of Unit 325 lb. (148 kg)
Min. Carrying Weight 260 lb. (118 kg)

Camera Car Mount

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

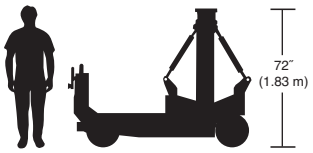
Maverick
Maximum Payload
6,000 lb. (2,727 kg)

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



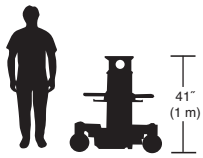
Hustler IV
With High Post Kit

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



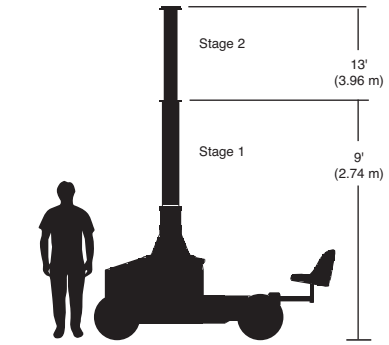
ATB Base
(7.5 in. riser optional)

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

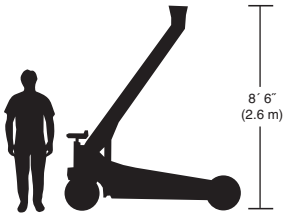


Pedolly® Chassis
w/ Center Post Insert

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

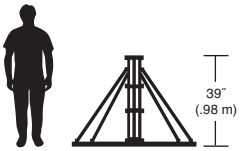


Olympian III
Maximum Payload
Stage 1
4,000 lb. (1,818 kg)
Stage 2
2,000 lb. (909 kg)
Weight of Unit
3,200 lb. (1,455 kg)



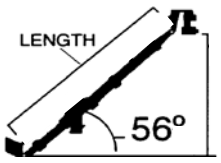
Olympian
Maximum Payload 1,700 lb. (795 kg)
Weight of Unit 1,790 lb. (813 kg)

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 II PLUS 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 II PLUS 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 .829 (Center post to forward bearing) + 1.1 ft. (.35 m) (Center post bearing to mount)

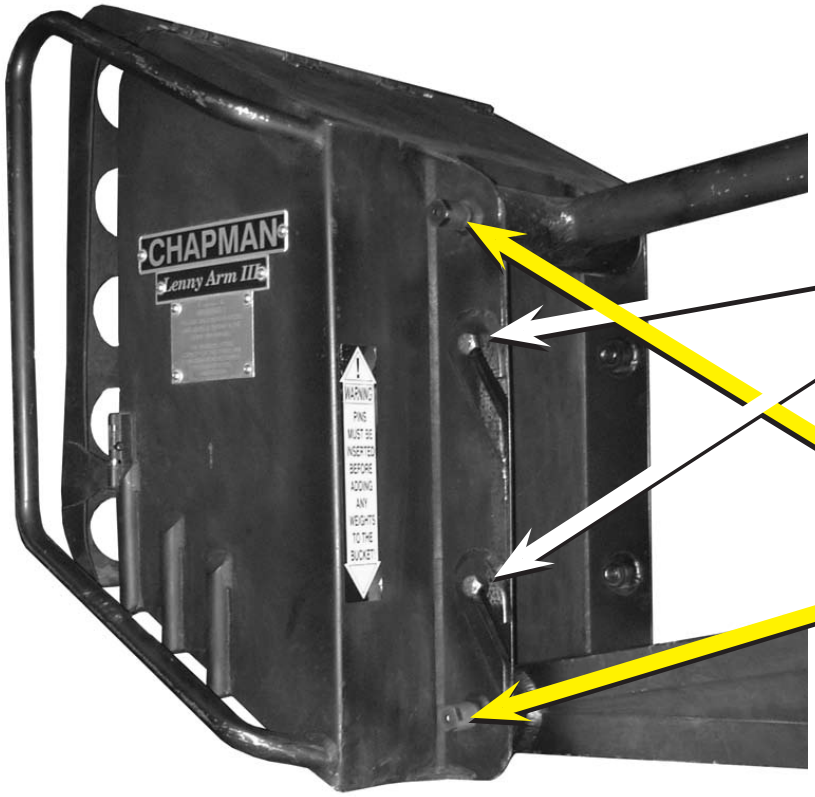
Actual Height (H) = MH - (PMH x BR - Actual Mount Height x BR)

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 Bucket Positioning Bolts

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

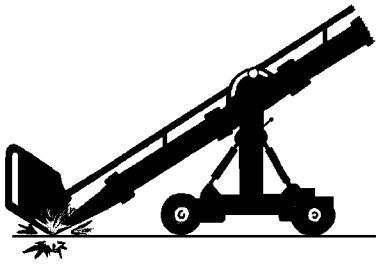
As soon as a Bucket is connected to a Lenny Arm with the Positioning Bolts, the two Retaining Rods **MUST** be inserted and Knurled Nuts tightened on the Retaining Rods.



Bucket Positioning Bolts

Retaining Bolts with Knurled Nuts

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)

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