



CHAPMAN/LEONARD
— STUDIO EQUIPMENT INC. —

Stinger Jib Arm

User Manual

Operational Instructions & Specifications

Stinger Jib Arm

User Manual

Operational Instructions & Specifications

Edition 13

CHAPMAN

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The Operator should be qualified to operate
equipment as expressed in this manual.

For assistance please call our 24-hour
Customer Service.

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chapman-leonard.com

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Features

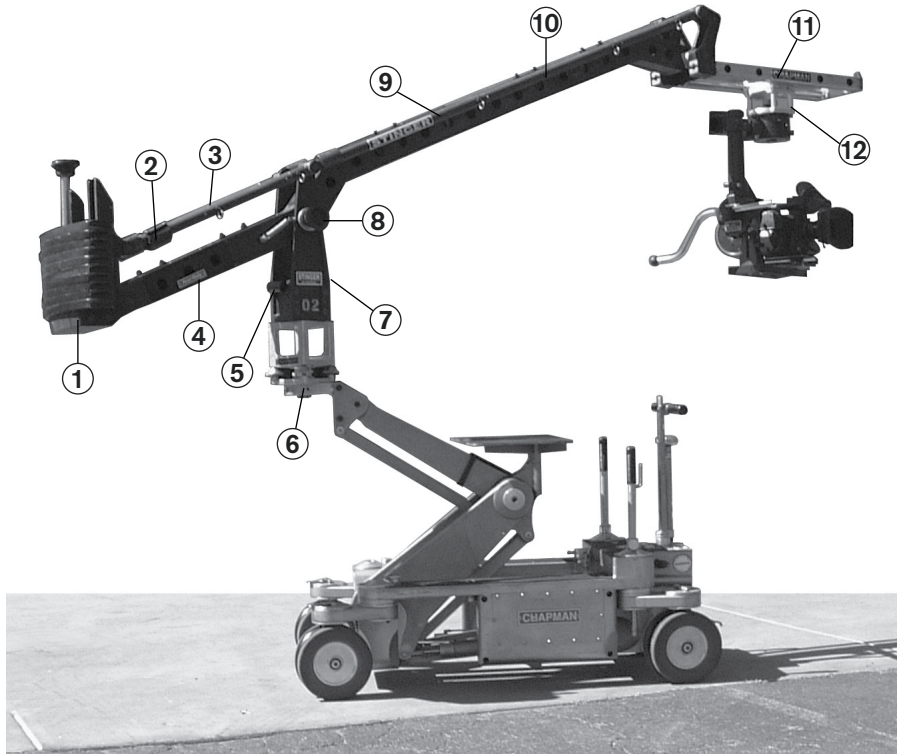
Stinger Jib Arm

The Stinger Jib Arm is Rigid without the need for a Cabling System. Compatible with a variety of Heads.

Stinger Jib Arm Features

1. Comes assembled (In full configuration upon request) and ready for use allowing quick setup or in its own special cart for easy transport and storage in the smallest configuration of the arm.
2. Every rental comes with all the parts for any configuration. (see page 27-33 for all configurations of the Stinger II Jib Arm.)
3. Compact and lightweight arm.
4. Stinger Arm Glide System allows up to 2 ft. of horizontal travel.
5. Black Anodized Arm for easy maintenance.
6. Works on Super PeeWee® IV, Hustler™ and Hybrid™ Camera Dollies, along with a variety of bases.
7. Precision design for rigidity without the need for cabling system.
8. A variety of counter balance weights available from 5 lb to 25 lb.
9. Precision design weights are contoured and shaped on a radius to follow the arc of the arm.
10. Stinger Arm Glide System has drag control.
11. Cushioned stops with dampening points at top and bottom travel of the arm.
12. Fluid dampening system resulting in zero backlash.
13. 360 degree continuous pan travel.
14. The Stinger™ Jib Arm has a maximum reach of 8 feet (from the Fulcrum). To the end of the 2 ft. slider.
15. Works with a variety of heads (including remote camera systems).
16. Designed to work within tight areas.

- 1 5, 10 & 25 lb Contoured Weights
Require less space during movement
- 2 Removable Slider Weight
For Fine Tune Balancing
- 3 Leveling Rod
- 4 1 ft Rear Arm Extension
- 5 Cushioned Stop
- 6 1" Nut Mount Adapter
see page 12
- 7 Pan Drag Control
- 8 Tilt Drag Control
- 9 2 ft Front Arm Extension
see page 21
- 10 1 ft Front Arm Extension
- 11 Glide Head
see page 16
- 12 Mitchell Mount
see page 11



See page 37 for other mounting options.

Transporting the Stinger Jib Arm

A Mobile Weight Case with 425 lb of weights comes with every Stinger Jib Arm.

Each Arm comes with **four 5 lb weights, two 10 lb weights, and seventeen 25 lb weights.**

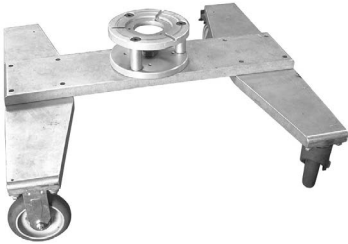


Mobile Storage Base for the Stinger™ Jib Arm (without Mitchell Mount.)

For the Super PeeWee® IV, Hustler™ IV and Hybrid™ Series of dollies.



Mobile Storage Base for the Stinger™ Jib Arm when used with the Hybrid™, Super PeeWee® IV or Hustler™ IV dollies (with Universal Head.)

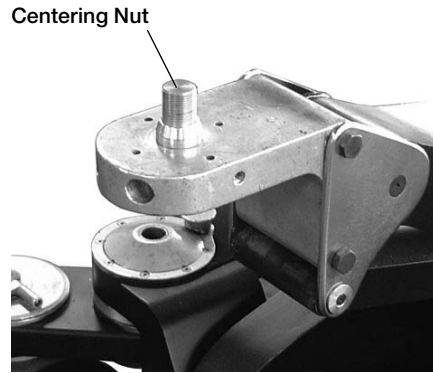


Mobile Storage Base for the Stinger™ Jib Arm (with Mitchell Mount.) For use with Pedestals, HyHy, High Post Kits, and Hustler™ IV dolly without Universal Head.

Hybrid Adapter for the Stinger™ Jib Arm Configuration



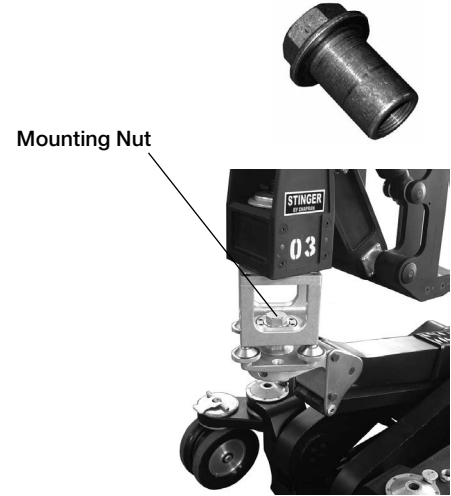
Standard Hybrid™ Mount setup with nose flipped.



Centering Nut

Hybrid™ Adapter for the Stinger™ Jib Arm installed and ready for the Stinger™ Jib Arm to be mounted.

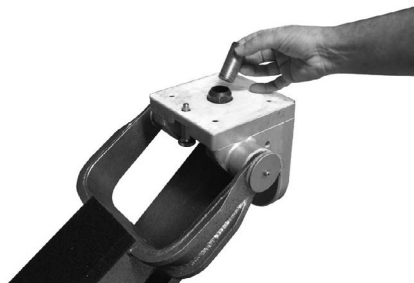
Note:
The legs **MUST** be set at 12 or 45 degrees for maximum stability.



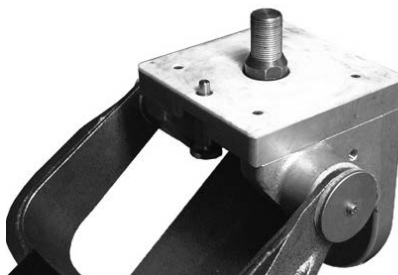
Mounting Nut

Hybrid™ with Stinger™ Jib Arm attached.

Hustler™ IV Adapter for the Stinger™ Jib Arm
Configuration



Standard Hustler™ IV Mount setup.

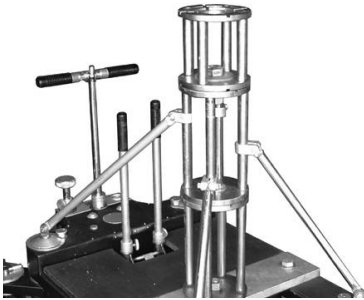


Hustler™ IV Adapter for the Stinger™ Jib Arm installed and ready for the Stinger™ Jib Arm to be mounted.



Hustler™ IV with Stinger™ Jib Arm attached.

High Post Adapter for the Stinger™ Jib Arm Configuration



Standard High Post Mount setup.



High Post Adapter installed and ready for the Stinger™ Jib Arm to be mounted.



High Post with Stinger™ Jib Arm attached.

Pedolly Mount for the Stinger Jib Arm Configuration



The Pedolly™ with its column removed and a Center Post Insert attached.



Before mounting the Stinger™ Jib Arm on the Center Post Insert, all legs **MUST** be in the 45 degree configuration. This will provide maximum stability for the base.



Use a rod or bar as leverage to tighten the Castle Ring.

Overlung to Underslung Mode Configuration



The Stinger™ Gliding Head in Overslung Mode.

Rubber Cover



Rubber cover (viewed from below).



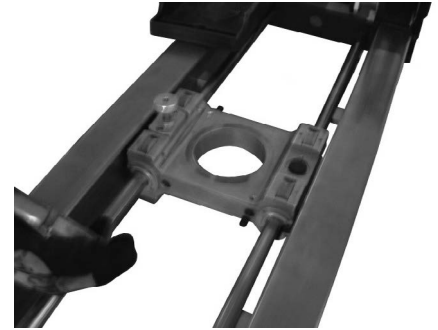
To change to the Underslung Mode, first remove the rubber cover from the Gliding Head.



Next remove the Locking Ring.



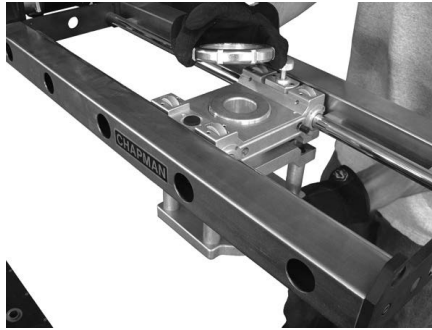
Separate the Mitchell Mount Head from the Glider Mechanism.



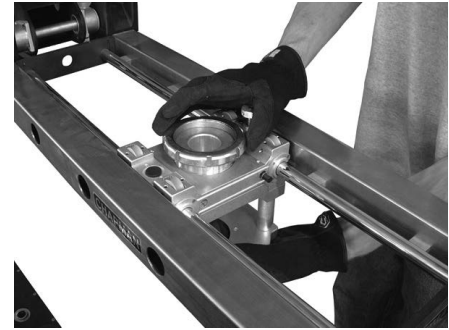
The Mitchell Mount Head removed from the Glider Mechanism.



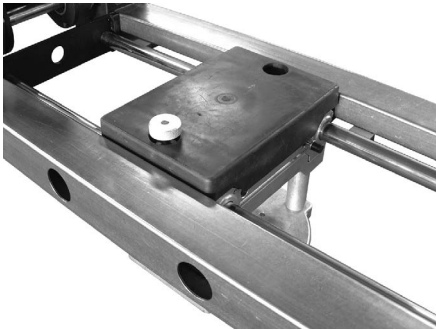
Position the Mitchell Mount Head below the Glider Mechanism.



Raise the Mitchell Mount Head until its threads become visible above the Glider Mechanism.



Attach the Locking Ring to the Mitchell Mount Head.



Replace the rubber cover on the Glider Mechanism.



The Underslung Mode of the Mitchell Mount Head (viewed from below).

Adding/Removing the Glide Head Assembly



Whenever extensions are added/removed from the Stinger™ Jib Arm, the 2 ft. Glider should be removed first. This will prevent the Glider from falling to the ground when the Leveling Rods are disconnected.



Loosen, but do not remove the retaining screw on each side of the 2 ft. Glider.



The 2 ft. Glider can now be pulled from the Arm.

Adding/Removing Arm Extensions Assembly



At this point, extensions of the Arm may be safely added or removed.



The Weight Tray Knob (pictured above) for the Weight Tray Rod may be stored on the Arm (pictured at left) when weights are being added or removed.



Before attempting to add or remove an arm extension, remove all weights from the tray.



Remove the Quick Release Pins from both sides of the Leveling Rods.



Pull from both sides of each Leveling Rod.



Let the Nose hang from the Arm.



Remove Leveling Rods on both sides of the Arm.



Loosen both bolts on the first extension of the arm. Do not remove the bolts from the arm.

The arm sections may be equipped with the new cam activated splice. See page 35 for an explanation of their setup.



With both bolts loosened, the Locking Plate may be lifted enough to remove the Nose.



Lift the Locking Plate and slide the Nose off of the Arm.



As the nose is removed, support the Arm until it reaches its balance point.



Loosen both bolts on the first extension of the Arm. Do not remove the bolts from the Arm. Remove this section or add additional sections to the Arm.



Replace the Nose on the end of the Arm.



Lift the Locking Plate to fully seat the Nose section on the Arm.



Reattach the Leveling Rods on both sides of the Arm. The Arm is now ready for the Glider to be reattached.

Stinger Jib Arm Configurations

Terms & Definitions

For Configurations not shown in this brochure, or questions regarding a special setup, Please Contact a Chapman/Leonard Service Representative.

(888) 883-6559

MH Maximum Height (From lens to ground in underslung mode. Additional height may be achieved by inverting remote head.)

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).

BAW + (BR + 1) Nose Load
Operating Weight for any given nose lead.

Stinger Jib Arm Configurations

Configurations

Configuration #1

MH	51.25"
MR	5 ft
MP	183.75 lb
BW	57.5 lb
BAW	187.5 lb
MOW	738.75 lb
BR	2:1
UW	130 lb

MOW w/ 100 lb Payload
487.5 lb



No added sections.

Configuration #2

MH 61.25"
MR 6 ft
MP 116 lb
BW 105 lb
BAW 242.5 lb
MOW 667.5 lb
BR 2.75:1
UW 137.5 lb

MOW w/ 100 lb Payload
617.5 lb



1 ft Section - Front

Configuration #3

MH	71"
MR	7 ft
MP	75 lb
BW	150 lb
BAW	292 lb
MOW	645 lb
BR	3.5:1
UW	142 lb



2 ft Section - Front

Configuration #4

MH 51.25"
MR 5 ft
MP 367 lb
BW 10 lb
BAW 147.5 lb
MOW 929.5 lb
BR 1.13:1
UW 137.5 lb

MOW w/ 100 lb Payload
360.5 lb



1 ft Section - Rear

Configuration #5

MH 61.25"
MR 6 ft
MP 246 lb
BW 37.5 lb
BAW 183 lb
MOW 815 lb
BR 1.57:1
UW 145.5 lb

MOW w/ 100 lb Payload
440 lb



1 ft Section - Front

1 ft Section - Rear

Configuration #6

MH 70.75"
MR 7 ft
MP 181 lb
BW 62.5 lb
BAW 212.5 lb
MOW 756 lb
BR 2:1
UW 150 lb

MOW w/ 100 lb Payload
512.5 lb



2 ft Section - Front

1 ft Section - Rear

Configuration #7

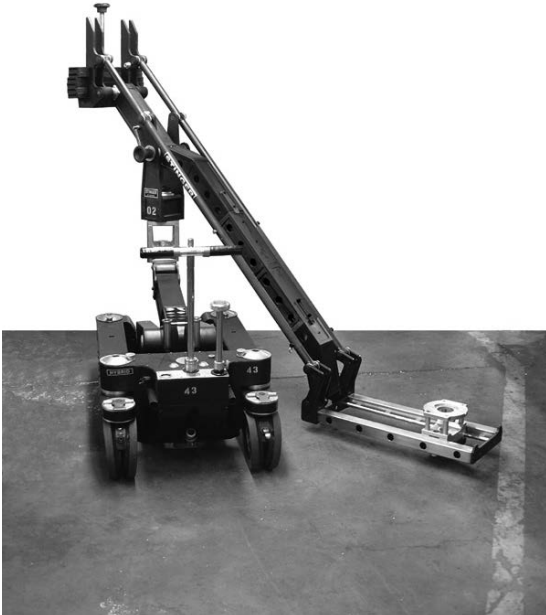
MH 82.25"
MR 8 ft
MP 133 lb
BW 100 lb
BAW 258 lb
MOW 716 lb
BR 2.44:1
UW 158 lb

MOW w/ 100 lb Payload
602 lb



2 ft Section - Front
1 ft Section - Front
1 ft Section - Rear

The reach of the Stinger™ Jib Arm offers an incredible range of movement.



Splice Retainer Bar

The Splice Retainer Bar with Cam Lock ensures a tight fit between sections of the Arm.

This is essential to maintaining the rigidity and stability of the Stinger Jib Arm while in operation.

Warning!

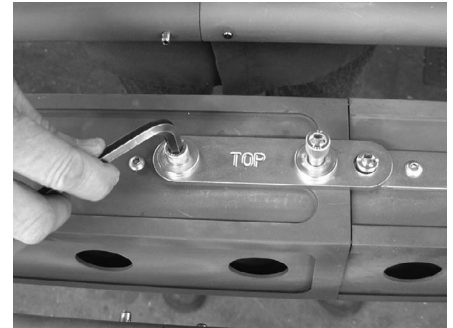
Before adding or removing any section of the Stinger Jib Arm, the front Glider Section MUST be removed to avoid damaging the arm.



When attaching an arm section, loosen the Socket Head Cap Screws enough to lift the Splice Retainer Bar over the Screw Cam Lock.



Push down on the Splice Retainer Bar until it is flush against the arm section. The Screw Cam Lock may have to be turned slightly to allow the Splice Retainer Bar to fit properly against the Arm.



Tighten the Socket Head Cap Screws, then loosen both Socket Head Cap Screws one full turn. This is enough to allow the fit between the Arm sections to be adjusted.

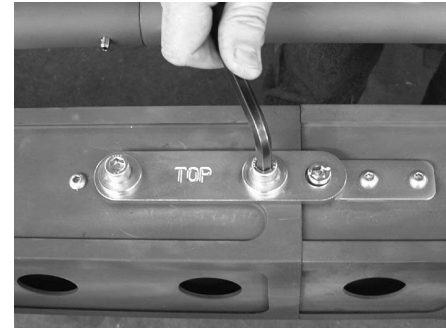
Disassembling the Stinger™ Jib Arm sections is simply the reverse of the below procedure.



Next, tighten the Screw Cam Lock to draw the Arm sections together. Less than half a turn of the Screw Cam Lock is necessary.

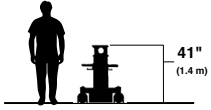
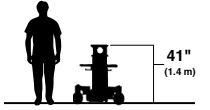
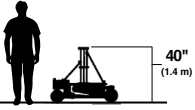
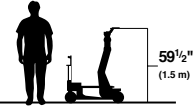
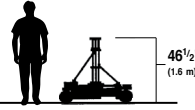


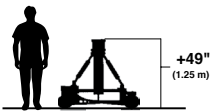
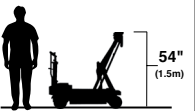
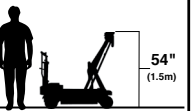
As shown above, the visible gap between the Arm sections has been eliminated.



The final step is to tighten both Socket Head Cap Screws. Excessive torque is not required.

The Stinger Jib Arm can be mounted on these Chapman/Leonard products:

 <p>LenCin[®] (With Center Post Insert)</p> <p>MAXIMUM PAYLOAD = 1,100 lb. (499 kg) Operating Weight of Unit = 245 lb. (111 kg) Minimum Carrying Weight of Unit = 164 lb. (75 kg)</p>	 <p>Pedolly[®] (With Center Post Insert)</p> <p>MAXIMUM PAYLOAD = 1,100 lb. (499 kg) Operating Weight of Unit = 305 lb. (139 kg) Minimum Carrying Weight of Unit = 224 lb. (102 kg)</p>	 <p>PeeWee[®] (With High Post Kit)</p> <p>MAXIMUM PAYLOAD = 1,100 lb. (499 kg) Operating Weight of Unit = 386 lb. (175 kg) Minimum Carrying Weight of Unit = 280 lb. (127 kg)</p>	 <p>Super PeeWee[®] IV</p> <p>MAXIMUM PAYLOAD = 350 lb. (159 kg) Operating Weight of Unit = 391 lb. (178 kg) Minimum Carrying Weight of Unit = 295 lb. (134 kg)</p>	 <p>Hybrid Series (With High Post Kit)</p> <p>MAXIMUM PAYLOAD = 1,900 lb. (862 kg) Operating Weight of Unit = 501 lb. (227 kg) Minimum Carrying Weight of Unit = 395 lb. (179 kg)</p>
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	 <p>Hy Hy[®] (With 7.5" Riser)</p> <p>MAXIMUM PAYLOAD = 2,900 lb. (1,316 kg) Operating Weight of Unit = 325 lb. (148 kg) Minimum Carrying Weight of Unit = 260 lb. (118 kg)</p>	 <p>Hustler[™]</p> <p>MAXIMUM PAYLOAD = 500 lb. (227 kg) Operating Weight of Unit = 454 lb. (206 kg) Minimum Carrying Weight of Unit = 420 lb. (191 kg)</p>	 <p>Hustler[™] IV</p> <p>MAXIMUM PAYLOAD = 750 lb. (340 kg) Operating Weight of Unit = 505 lb. (229 kg) Minimum Carrying Weight of Unit = 465 lb. (211 kg)</p>	
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Shipping & Rental Return

The customer should be sure that the equipment is properly crated for shipment. Get a signed receipt from the shipping company that will be transporting the equipment. Keep the receipt from the transport company indicating that the equipment has been shipped to **Chapman/Leonard Studio Equipment, Inc.**

When picking up or returning rental gear to Chapman/Leonard Studio Equipment, Inc., please remember that **rentals are due back by 10 a.m. at our North Hollywood facility.**

The rental bays are located on your left, immediately after entering the facility from Raymer Street. Trucks should be backed up to the bays for easier loading. If no bays are available, you can temporarily park on Raymer Street and advise the Rental Office of your arrival. A Customer Service Agent will advise you when a spot opens at the bay.

All drivers should first report to the Rental Staff for paperwork. Unloading will not begin until the paperwork has been picked up and stamped. Our Rental Staff is well trained to process equipment and documents quickly and courteously. It is our intent to get you back on the road in a timely manner.

Address

Chapman/Leonard Studio Equipment, Inc.
12950 Raymer Street
North Hollywood, CA 91605

Rental Office Hours

Monday - Friday	7am - 6pm
Saturdays	8am - 12 pm





CHAPMAN/LEONARD
— STUDIO EQUIPMENT INC. —