CHAPMAN/LEONARD
STUDIO EQUIPMENT INC.

Olympian Series

User Manual

Assembly Instructions & Specifications
for Olympian and Olympian II

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for Olympian and Olympian II

Edition 8

CHAPMAN

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Olympian Series User Manual

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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Contents

Football Turret Options
Olympian I and Olympian II

Olympian I

Single Man Turret

Dual Turret

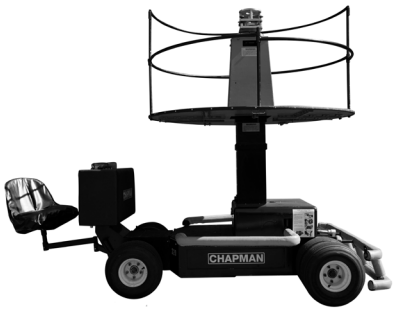
Football Stacker Turret

Standard Football Package

Olympian II

Single Man Turret

Dual Turret



Standard Football Package

Safety Features
Olympian Mobile Bases

The following are recommended uses for **ALL** Olympian Mobile Bases.

DO check the batteries every day. Use a hydrometer to check the specific gravity. Fill each cell with 1/8 inch of top of neck. Only use distilled water to top off batteries.

DO charge the vehicle batteris at night or when not in use. **Not while the vehicle is being used.**

ALWAYS use wheel chocks to prvent movement on sloped surfaces. Ratchet lock hydraulic brakes are for **TEMPORARY** security only.

ALWAYS rehearse each shot under controlled conditions to ascertain safety in movement.

ALWAYS have a safe zone (set) for your job area.

DO NOT depend on hydraulic braking system to prevent movements for any extended time.

NO smoking or open flames near the battery compartment.

ALWAYS be the final judge of whether a movement of the Olympian is safe.

ALWAYS maintain correct tire pressure (40 PSI for sports)

DO ensure that the Center Wheel Hub Bolts are torqued to 220-250 lb.

DO check and tighten all bolts on the Olympmian. Allen bolts on the nose, Turret stud bolts on the bottom of the platform to the nose, and railing mounting bolts, cameral risers and level heads.

ALWAYS keep equipment protected when outside.

ALWAYS keep this User Guide with the Olympian for quick access to this information.

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 (Feet)	Clearance (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

Olympian I
Features & Specifications

Features

1. Two Motor Drive, Enabling speeds up to 18 mph
2. Rigid Single Beam Lift
3. Special Rear Steering Design with 20:1 Ratio
4. Flexibility in Camera Operator Setup
5. Video Platform, Video or Film Turret Available
6. Ability to Carry Crane Arm
7. Chassi Allows Removable Padded Barrier
8. Large Ballon Tires (4 psi - 40 psi) for Movement in Sand
9. Detachable Side Boards
10. Hydraulic Lift for Smooth, One-Man Operation
11. Variable Camera Head Mount
12. Streamline Profile Does Not Interfere with Audience View
13. Ability to be used On or Off Track
14. Great for Football (or Other Sports) Sideline Coverage
15. Narrow Chassis with Variable Tire Widths
16. Complete Football Safety Package (Includes: Padding, Wheel Skirts, Cable Draggers)

Specifications

Lens Height (Std. Film, TV or Platform Setup)	13 ft. 10 in.	4.22 m
Lens Height (Crane Arm Setup)	22 ft. 6 in.	6.86 m
Minimum Lens Height (Crane Arm Setup, below Ground Level)	1 ft. 6 in.	46 cm
Reach beyond Chassis (Film Setup)	9 ft.	2.74 m
Reach beyond Chassis (TV Setup)	1 ft. 4 in.	41 cm
Reach beyond Chassis (Crane Arm (Film) Setup)	10 ft. 9 in.	3.28 m
Reach beyond Chassis (Crane Arm (TV) Setup)	8 ft. 7 in.	2.62 m
Maximum Payload*	1,700 lb	798 kg
Vertical Travel (Standard Setup)	6 ft. 10 in.	2.08 m
Boom Travel (Crane Arm Setup)	17 ft. 8 in.	5.38 m
Chassis Single Wheel Width (Standard Setup Only)	2 ft. $9^{1/4}$ in.	84 cm
Chassis Dual Wheel Width (Standard Setup Only)	4 ft. $5^{3/8}$ in.	1.35 m
Chassis Triple Wheel Width	6 ft. $1^{3/4}$ in.	1.87 m
Chassis Length	7 ft. $8^{1/4}$ in.	2.34 m
Minimum Turn Radius	8 ft. 3 in.	2.51 m
Maximum Speed (with Full Charge)	18 mph	30 kph
Normal Operating Weight Less Payload*	1,800 lb	818 kg

* Payload includes all items (i.e. Man, Camera, Platform, Turret, Crane Arm, etc.) on Base Mount

Olympian II
Features & Specifications

Features

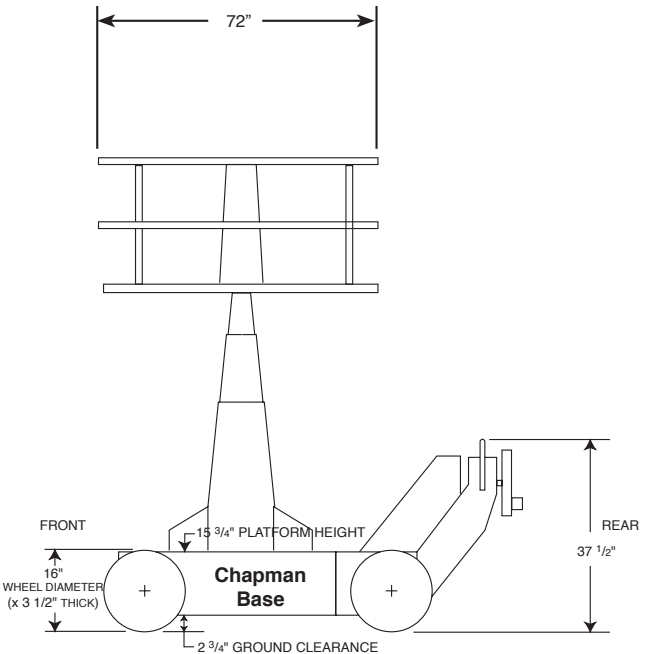
1. Can carry Crane Arms up to 4,000 lb. (1,818 kg) in Stage One and Arms up to 2,000 lb. (909 kg) in Stage Two.
2. Provides silent DC Power for Silent Operation.
3. Charging System operates on 110v or can be setup for 220v.
4. Tires come in your choice of Knobby, Pneumatic or Solid Tires.
5. Provides adequate ground clearance, allowing use over most terrain.
6. 36v System will give surprising performance and acceleration.
7. Platform side boards, monitor platform and padding are available.
8. Aluminum Track available upon request.
9. Hydraulic chassis and parking brake.

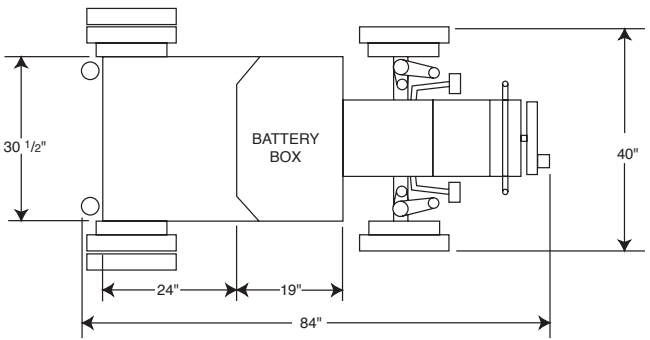
Specifications

Maximum Payload - Stage One	4,000 lb	1,818 kg
Maximum Payload - Stage Two	2,000 lb	909 kg
Maximum Height - Stage One	9 ft.	2.74 m
Maximum Height - Stage Two	13 ft.	3.96 m
Chassis Length	81 in.	2.05 m
Maximum Wheel Width (w/ Pneumatic Wheel Setup)	$95^{1/2}$ in.	2.42 m
Wheel Width (Center to Center - Solid Wheels)	$31^{3/8}$ in.	79 cm
Minimum Chassis Height for Transportation (Post down)	66 in.	1.67 m
Mounting Height (w/o Risers)	66 in.	1.67 m
Ground Clearance	4 in.	10 cm
Maximum Speed (Fully Charged)	15 mph	24 kph
Operational Unit Weight Less Payload	3,200 lb	1,455 kg

* Payload includes all items (i.e. Man, Camera, Platform, Turret, Crane Arm, etc.) on Base Mount

Olympian II
Dimensions



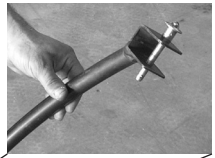


The Olympian II Platform
Assembly

The center section of the platform is already mounted on the Olympian II when it arrives on the set. The two side pieces that complete the platform's circle are attached by a quick release pin on each side of the pedestal. The struts fit into recesses in the main platform deck to secure it in place, and give the Olympian II a narrow profile during transport.

Align the support struts to the center section of the platform and slide into place.

A quick release pin secures the section to the center section of the platform. The quick release pin used for securing the section to the pedestal may be stored in the hole next to the retaining quick release pin.



Attach the four single rods around the platform to begin building the safety railing.

Attach the three quarter circle sections of the safety railing.

Note: Apply opposite rails first.

The fourth quarter section of the safety railing is placed to the rear of the Olympian II. It has a quick release pin at one end to allow the cameraman to mount the platform without having to climb over the railing.

The Olympian II Handle Rail
Assembly

The top railing is made of two half circles. Either side may be eliminated from the assembly of the safety railing. This gives the camera an unobstructed view of the action or the crane arm a greater degree of movement.

When the Safety Railing is in place, tighten the bottom short nobs. **Place 2 inch duct tape at all eight joints of railing.** The cameraman can climb onto the platform by detaching the lower railing at the quick release pin. Be sure that the quick release pin is reattached securely.

The final step in assembling the platform is attaching the safety harness.

Warning!
Every person on the platform MUST be attached to the pedestal with a safety harness. Even with the railing in place.

Knobby Tires
Installation

Caution!
DO NOT Try to Remove the Bolt from Tires.

Place the Solid Tire on a ramp. **Apply** Brake. **Chock** opposite wheels.

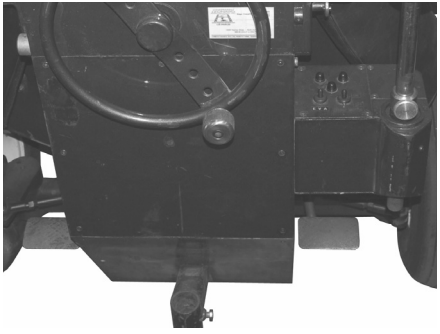
While holding a Knobby Tire up agains the Solid Tire, **Align** the five Lug Nuts on the Solid Tire with the five Holes on the Knobby Wheel.

Wiggle the Knobby Tire to insure that the Lug Nuts are embedded in the five Holes. Hold the Knobby Wheel against the Solid Tire by wedging your foot under the Knobby Tire. **Tighten by Hand.**

Torque the Center Hub Bolt to 220-250 lb. (The Lock Washer should now be completely flattened).

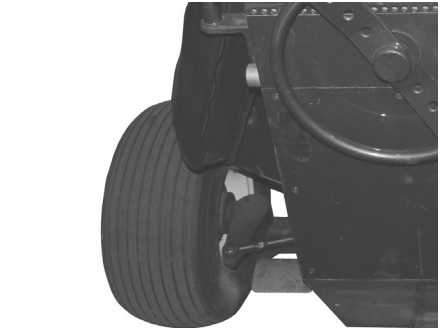
Olympian II Controls

Warning!
DO NOT operate or attempt to move an Olympian with the brakes locked.



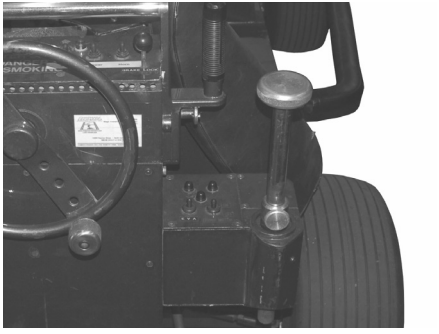
Two **Brake** pedals can be reached from the driver's seat on the Olympian II. They may also be locked in place by pushing down on the **Brake Lock** knob. (Pictured above)

Warning!
Never use brake pedals as a parking brake. Always chock wheels when the Olympian is on an incline.



Charging and monitoring the batteries can be done at the left rear wheel area of the Olympian II.

Check the batteries every day and make sure that the water level in each cell remains within 1/8" from the top.



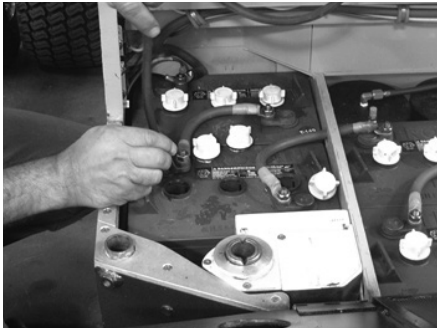
Charge Batteries when needed, see guide on page 22.

Warning!
Never drive while charging batteries.

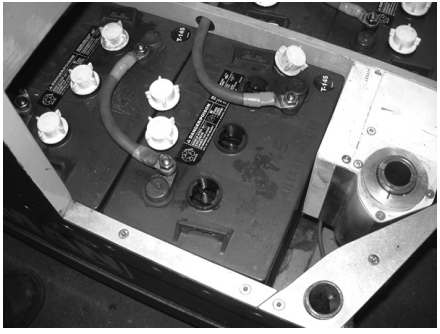
Batteries and Charging System
Maintenance

The batteries are located under the deck, in front of the driver. Lift the panels out of the way to check on their condition daily.

Use a hydrometer to check the specific gravity of each cell.



Top off each cell to within an eighth of an inch from the top of the neck using **DISTILLED WATER (ONLY).**



Be careful that no dirt or debris is allowed to fall into the open cells of the batteries.

Check to insure that the cables are secure.

Charge the Olympian overnight. A gauge located on the left rear of the chassis shows the rate of charging.

Use a hydrometer to check every cell in the batteries before using the Olympian III.

1325 is the maximum specific gravity allowed.

Any reading that is over 1250 is good.

Troubleshooting the Olympian Series
Elecrical System

No Charge

a. Check AC cord.
b. Check source of electrical power outlet.
c. Check the fuse.
d. Check that batteries are charged with correct water levels.

Lack of Power

a. Make sure Rachet Brake Lock is not on.
b. Check battery cables.
c. Check gracity level reading of batteries and check for dead cell.
d. Check ground conditions (may be soft, causing increased resistance).
e. Check tire pressure under inflated tires (causing increased resistance).

Olympian does not move (indicates that the batteries may be overcharged).

a. Unplug AC Charger - **NEVER** use while driving crane.
b. Turn the Hydraulic Power on.
c. Boom the arm up and down twice.
d. Recycle key switches (power and drive) twice.

Troubleshooting the Olympian Series
Hydraulic System

Boom does not go up

a. Check to make sure the hydraulic system is charged.
b. Make sure the Pump Switch is on.
c. Check hydraulic pressure.
d. Make sure the metering valve is open.
e. Look for oil leaks.

Daily Check List

1. When walking up to the unit, check for leaks. Look for water or oil on the ground. Check that all tires have the proper air pressure (40 psi).

2. Check the Platform, Turret, Camera Mounts and Safety Railing for damage or any loose fittings.

3. Turn the pump on. Boom the arm up and down. Look closely for any leaks and listen for any odd noises during this test. Leave the arm in a raised position and proceed to check the batteries.

4. Check the batteries daily. Read the specific gravity of each cell. Using **DISTILLED WATER ONLY** fill 1/8 in to bottom ring inside battery cell.

5. Turn on the Main Power. Turn on the Drive System. Move the crane forward and then reverse slowly. Check the operation of the brakes at low speed.

Time Setting (Hours)	27.0	17.0	13.0	11.5	9.0	7.5	6.0	4.0	3.0	1.0	0.0
Equivalent Gravity Readings	1145	1155	1165	1175	1185	1195	1210	1225	1240	1260	1270
Percent Battery Usage Remaining	40%	40%	45%	50%	55%	60%	65%	70%	80%	90%	100%

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 epuipment. 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, please talk with security guards.

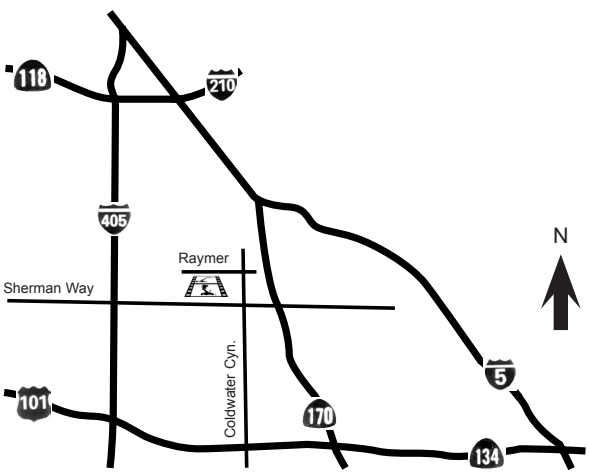
All drivers should first report to the Rental Staff for paperwork. Unloading will not begin until the paperwork has been picked up and stamped. Our Rental Staff is well trained to process equipment and documents quickly and courteously. It is our intent to get you back on the road in a timely manner.

Address

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

Rental Office Hours

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



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