

## ACCESSORIES

### MASTS

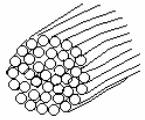
- M1040** 10' x 1.92" diameter 0.145 wall galv. steel
- M1049** 9' x 1.92" diameter 0.145 wall galv. steel
- A1040** 10' x 1.92" diameter 0.145 wall aluminum
- A1049** 9' x 1.92" diameter 0.145 wall aluminum
- A2060** 10' x 2.375" diameter 0.154 wall aluminum
- A5050** 5' x 1.312" diameter 0.145 wall aluminum

### TRAILER LIGHTING ADAPTOR KIT

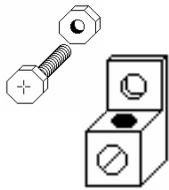
Allows vehicle taillights, brake lights and turn signal power to pass to trailer lighting system.

Part # **LA-1845**

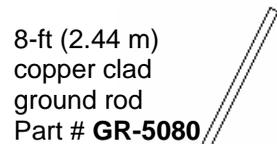
### GROUND ACCESSORIES



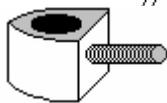
#2 - Ø  
Braided ground wire  
Part # **CW-0040**



Grounding Lug  
Part # **TL-0470**

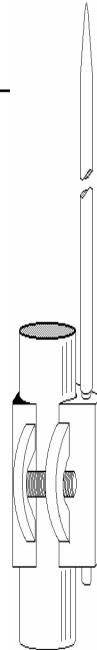


8-ft (2.44 m)  
copper clad  
ground rod  
Part # **GR-5080**



Ground Rod Clamp  
Part # **GR-4400**

LR-8418 Lighting  
Rod 1/2" x 18"



### LIGHTNING ROD ACCESSORIES

# OWNER'S MANUAL

# TELESCOPING TOWER AND TRAILER

Trailer ID #:

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**HOW TO ORDER** - Order from your authorized GlenMartin, Inc distributor or call us at the number listed below. Check/money order/MasterCard/ Visa/ C.O.D. accepted. We also ship C.O.D. Our foreign sales department specializes in overseas shipments!

SPECIFICATIONS: Dimensions, shipping weights and performance specifications are subject to variation within reasonable tolerances. Since changes and improvements are being made continually, specifications shown are subject to change without notice.

*GlenMartin, Inc.*

13620 Old Hwy 40, Boonville, MO 65233

Call our Customer Service Department Mon. - Fri. 7:30 am - 5:30 pm Central Time

**800-486-1223** [www.glenmartin.com](http://www.glenmartin.com)



### CONGRATULATIONS!

We would like to thank you for choosing a GlenMartin, Inc. Tower and Trailer. Your new Tower is manufactured in the USA of quality galvanized steel for durability and long life. Please take the time to inspect your 1845 tower, the winch cable, and the winch at least once a month for rust or other problems. Lightly oil the stainless steel aircraft cable as needed. With proper care, your tower should give you a lifetime of use.

## TOOLS YOU'LL NEED FOR ASSEMBLY AND INSTALLATION



**SOCKET SET**



**ADJUSTABLE  
END WRENCH**

**Hammer**

Parts List		
Line	QTY	Description
1	2	Front Outriggers
2	2	Rear Outriggers and Pins to Prevent Axial Movement
3	1	Telescoping 45'
4	1	5' x 1-1/2" Mast Pipe
5	1	Rear Hoist Assembly
6	4	Leveling Jacks Located on Outriggers

## SAFETY RULES

1. Never mount any tower system close to wires or power lines. Stay at least 1½ times the overall height away from any power lines or wires.
2. Never attempt to touch someone who is in contact with power lines or wires.
3. Never climb the tower. Serious injury could result from a fall. This is even more dangerous when you are on a roof top.
4. If you drop something while working on a roof, NEVER try to catch or stop it. Let it fall and keep your own balance secure.
5. Use the buddy system. Always have someone helping nearby.
6. Always keep children away.
7. NEVER attempt to install or attempt to repair equipment while under the influence of drugs, alcohol or any medication.

*Please keep these instructions in a safe place after installation. If you sell your tower, pass these instructions on to the new owner.*

### GlenMartin WARRANTY

GlenMartin, Inc. warrants the 1845 Trailer for one full year. If this product fails to give the original purchaser complete satisfaction within one year from the original date of purchase, return it to the nearest authorized distributor and GlenMartin, Inc. will repair it, free of charge. GlenMartin, Inc. will not be liable for loss or damage to property or any incidental or consequential loss or expense from property damage due directly or indirectly from the use of this product.



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(800) 486-1223

**GLENMARTIN**

13620 Old Highway 40, Boonville, MO 65233 USA

## Outrigger Stowing Procedure:

1. Stow outriggers as seen in figure 8 below and tighten under plates. The two bolts found on the under plates prevent the outriggers from sliding out while the unit is towed down the road. Each outrigger has an under plate.



**Figure 8:** Stowing of outriggers

### **RECOMMENDATIONS ON MOUNTING ANTENNAS**

1. Mount rotator.
2. We recommend using a Thrust Bearing to support mast.
3. Use the shortest mast necessary to match installation.
4. Always keep tower, mast & antennas 1½ times the height away from overhead power lines.
5. Adjust rotator, thrust bearing and mast so they are concentric (centered).
6. We **strongly** advise lightning protection for your tower. Ground your system to achieve a goal of ground resistance at 25 ohms or less. See our tower accessories on Page 8 of this manual.

## Operational Instructions:

1. Loosen the lower clamps on front set of outriggers. Use a 15/16" open end wrench or adjustable end wrench. Extend the outrigger away from the trailer left and right side to their full extension, about 40 inches on each side. **Retighten** the lower clamps using the 15/16" wrench. Remove the pin from the drop leg jack and lower the foot to the lowest extent and reinsert the pin. Crank jack down and adjust to ground level. **Note:** Level trailer with jacks. do not erect tower until outriggers are secured.

2. Next, extend **rear outriggers** using a 15/16" wrench.



**Figure: 1** Trailer with outriggers fully extended

Extend outriggers on both sides and insert at approximately 45° angles to the rear bumper and insert 5/8" pins in bunkers beneath trailer. Pin will prevent rear outriggers from slipping out trailer. The outrigger jacks can be leveled now. First, remove pin from jack and lower foot to the lowest extent. Reinsert the pin on jack and turn jack screw handles until trailer is leveled. The trailer should resemble figure 1 above.

- 3) Level trailer with jacks. With the aid of a construction level this process can be simplified. The outriggers should be in their full extended position before proceeding.

## ***Tower Erection Procedure:***

1. Release front cable support located at the front of the tower as seen in figure 2.
2. Hoist rear winch assemble and hinge tower in place. Note that the trailer should be leveled before tower is raised by this winching procedure. If rear winch assembly is not in place, hinge main hinge arm in place and attach angle supports as seen in figure 2.



**Figure 2:** Cable Release

3. Before raising tower release cable strap at front of tower as seen in figure 3.



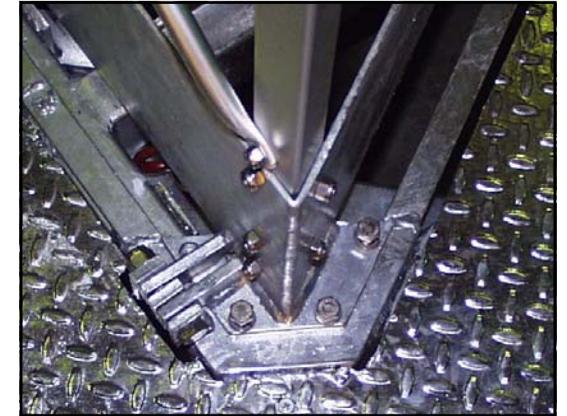
**Figure 3:** Cable strap

## ***Final Attachment and Erection of Telescoping Tower***

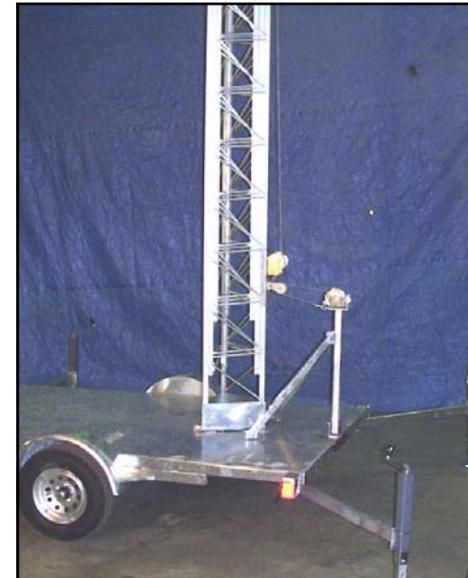


**Figure 5:** Base adjustment

- 1) After telescoping tower is in upright position, place 7/16" bolts into hinge assembly and tighten down. The base need to be adjusted to line holes properly. A hammer can be used to adjust base. Note figure 5 and 6.



**Figure 6:** Attachment of 7/16" Bolts



**Figure 7:** Upright position

- 3) With tower fixed in place tighten rear hoist cable for added protection, but don't overtighten cable. The tower should appear as seen in figure 7.
- 4) Crank main telescoping tower winch to desired height and begin work.