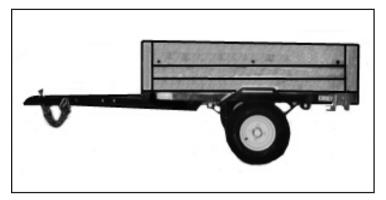


BOX TRAILER

1,000 lb. Payload

Model 02948

ASSEMBLY AND OPERATION INSTRUCTIONS



WARNING! IMPORTANT INFORMATION

This trailer's Hitch Coupler MUST be properly secured to the hitch ball of the towing vehicle. After assembly and attachment, pull up and down on the Hitch Coupler to make sure the hitch ball is fitting snugly in the Hitch Coupler. **There must be no play between the hitch ball and Hitch Coupler**. If there is play, tighten the Adjustment Nut until no play is present. If the Adjustment Nut is too tight, the Handle will not lock. **Carefully read and follow the complete instructions in this manual BEFORE setup or use.**

If the Coupler is not secured properly, the ball could come loose while the trailer is in motion, possibly causing property damage, SERIOUS PERSONAL INJURY, or DEATH.

Due to continuing improvements, actual product may differ slightly from the product described herein.



3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our website at: http://www.harborfreight.com

TO PREVENT SERIOUS INJURY, READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONS BEFORE USE.

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For technical questions or replacement parts, please call 1-800-444-3353.

Manual Revised 04j, 07f

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SPECIFICATIONS

Maximum Trailer Payload	1,000 Pounds			
Hitch Coupler Requirements	Class 1 / 1200 Pounds Load Capacity /			
	2-1/2" Tongue / 1-7/8" Ball			
Overall Dimensions	82" L x 51-1/8" W x 30-1/2" H			
Trailer Bed Dimensions	55" L x 35" W x 1/2" Thick			
Front/Side Panels/Tail Gate Height	12-7/8" High			
Axle (w/Spindles) Dimensions	47-1/2" L x 1-5/8" W x 1-1/2" H			
Wheels/Rims Dimensions	3.75" J x 8" Diameter			
Tire Requirements	4.80/4.00-8 / Load Range: B			
	Tubeless Nylon; * Maximum Tire Load			
	Capacity = 590 lb. At 60 PSI			
Tail Lights	12 Volt DC / D.O.T. Approved			
Weight	195 Pounds			

Note: Gross Vehicle Weight Rating = 1,000 lb., Gross Axle Weight Rating = 1,080 lb. Gross Vehicle Weight Rating assumes an even load weight distribution on the trailer bed. Uneven load distribution may result in exceeding individual tire maximum weight capacity and additionally may cause instability on trailer during cornering.

Save this Manual

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY WARNINGS AND PRECAUTIONS

- 1. **KEEP WORK AREA CLEAN AND DRY.** Cluttered, damp, or wet work areas invite injuries.
- 2. **KEEP CHILDREN AWAY FROM WORK AREA.** Do not allow children to handle this product.
- 3. **STORE IDLE EQUIPMENT.** When not in use, tools and equipment should be stored in a dry location to inhibit rust. Always lock up tools and equipment, and keep out of reach of children.
- 4. **DO NOT USE THIS PRODUCT IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning labels on prescriptions to determine if your judgement or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use this product.
- 5. **USE EYE PROTECTION.** Wear ANSI-approved safety impact eye goggles when assembling this product. ANSI-approved safety impact eye goggles are available from Harbor Freight Tools.

- 6. **DRESS SAFELY.** Do not wear loose clothing or jewelry, as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts. If wearing a long-sleeve shirt, roll sleeves up above elbows.
- 7. **DO NOT OVERREACH.** Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.

8. INDUSTRIAL APPLICATIONS MUST FOLLOW OSHA REQUIREMENTS.

- 9. **STAY ALERT.** Watch what you are doing at all times. Use common sense. Do not use this product when you are tired or distracted from the job at hand.
- 10. **CHECK FOR DAMAGED PARTS.** Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace or repair damaged or worn parts immediately.
- 11. **REPLACEMENT PARTS AND ACCESSORIES:** When servicing, use only identical replacement parts. Only use accessories intended for use with this product. Approved accessories are available from Harbor Freight Tools.
- 12. **MAINTAIN THIS PRODUCT WITH CARE.** Keep this product clean and dry for better and safer performance.
- 13. **MAINTENANCE:** For your safety, service and maintenance should be performed regularly by a qualified technician.
- 14. **USE THE RIGHT TOOL FOR THE JOB.** Do not attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. Do not modify this equipment, and do not use this equipment for a purpose for which it was not intended.
- 15. **WARNING:** The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

SPECIFIC PRODUCT WARNINGS AND PRECAUTIONS

- 1. TO AVOID PERSONAL INJURY AND/OR PROPERTY DAMAGE, DO NOT EX-CEED THE TRAILER'S MAXIMUM CAPACITY OF <u>1,000 POUNDS GROSS VE-HICLE WEIGHT RATING OR 1,080 POUNDS GROSS AXLE WEIGHT RATING</u>.
- 2. BEFORE EACH USE, ALWAYS EXAMINE THE TRAILER FOR PROPER TIRE (A15) AIR PRESSURE, DAMAGED TAIL LIGHTS (A11), DAMAGED SIDE RUN-NING LIGHTS (A7), LOOSE BOLTS AND NUTS, STRUCTURAL CRACKS,
- SKU 02948 For technical questions, please call 1-800-444-3353. Page 4

BENDS, AND ANY OTHER CONDITION THAT MAY AFFECT ITS SAFE OPERA-TION. Do not use the Trailer even if minor damage appears.

- 3. NEVER ALLOW ADULTS, CHILDREN, OR PETS TO RIDE IN THE TRAILER.
- 4. **BEFORE EACH USE, ALWAYS ATTACH THE SAFETY CHAIN (A19) OF THE TRAILER TO THE TOWING VEHICLE.** Make sure the Safety Chain is attached to the towing vehicle with the same length for each side. Do not allow the Safety Chain to drag on the ground.
- 5. ALWAYS CHECK TO MAKE SURE THE PAYLOAD BEING TRANSPORTED IS PROPERLY AND SAFELY SECURED IN THE TRAILER. Load the Trailer evenly from side to side with 60% of the load forward of the Axle (A8).
- 6. **MAKE SURE THE TOWING VEHICLE IS CAPABLE OF TOWING THE TRAILER AND ITS PAYLOAD.** Make sure the hitch on the towing vehicle is capable of towing the Trailer and its payload. The towing capacity of the hitch is typically stamped on the hitch drawbar.
- 7. MAKE SURE THE HITCH COUPLER (A14) AND THE VEHICLE'S BALL HITCH (not included) ARE OF EQUAL MATING SIZE (1-7/8") AND ARE RATED EQUAL TO OR GREATER THAN THE WEIGHT OF THE TRAILER AND ITS PAYLOAD.
- 8. **DO NOT EXCEED 45 MILES PER HOUR WHEN TOWING THE TRAILER.** Excess speed is a major cause of vehicle-trailer accidents.
- 9. **THE TAIL LIGHT BULBS SUPPLIED WITH THIS TRAILER ARE FOR A 12 VOLT DC ELECTRICAL SYSTEM ONLY.** Do not attempt to power the Light Bulbs with any other type or voltage electrical current.
- 10. WHENEVER POSSIBLE, PARK THE TRAILER ON A FLAT, LEVEL, PAVED, SUR-FACE AND CHOCK BOTH TIRES TO KEEP THE TRAILER FROM ACCIDENTLY MOVING.
- 11. **TRAILER LICENSING NOTICE:** Some states may consider this Trailer a vehicle requiring registration, licensing, and titling. Check with your State Department of Motor Vehicles for information and guidance on registering, licensing, and titling the Trailer.
- 12. DO NOT EXCEED THE MAXIMUM WEIGHT CAPACITY OF 590 POUNDS PER TIRE AT 60 PSI.

UNPACKING

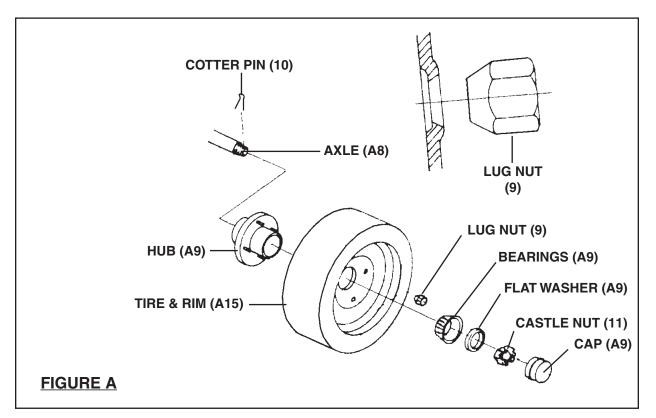
When unpacking, check to make sure all the parts shown on the <u>Parts List</u> near the end of this manual are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

ASSEMBLY INSTRUCTIONS

Note: For additional references to the parts listed below, refer to the Assembly Diagram near the end of this manual.

To Assemble the Tires, Wheels, and Axle:

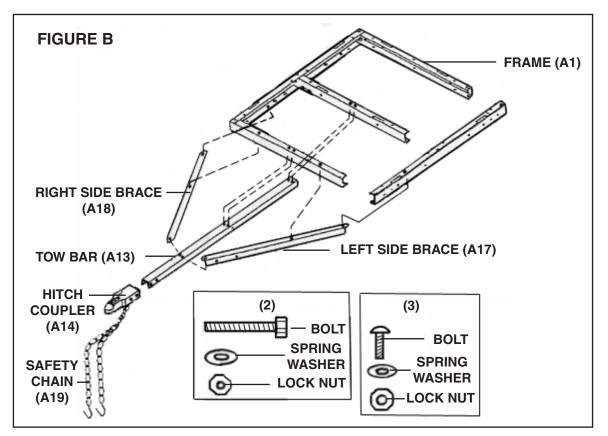
- 1. IMPORTANT! Whenever a Hub (A9) on a new unit requires assembly (or a Hub is disassembled for maintenance), the following procedures MUST be followed:
- 2. Using a suitable solvent, thoroughly clean the Bearings (A9), Seal (A9), Castle Nut (11), and the rest of the parts of the Hub Assembly (A9) of all grease, dirt, metal shavings, or any other foreign object. **The parts must be cleaned even if they are new or appear clean.**
- 3. Allow all parts to dry completely.
- 4. Make sure your hands are clean and the bearing packer (not included) is also clean.
- 5. Place fresh, clean bearing grease in the bearing packer.
- 6. With the grease-filled bearing packer in one hand and the Bearing (A9) in the other, press the Bearing into the grease, forcing the grease inside the slots in the Bearing. Continue doing this until every slot in the Bearing is completely full of grease.
- 7. During the rest of the assembly, be careful not to get any dirt or debris on any part of the hub assembly.



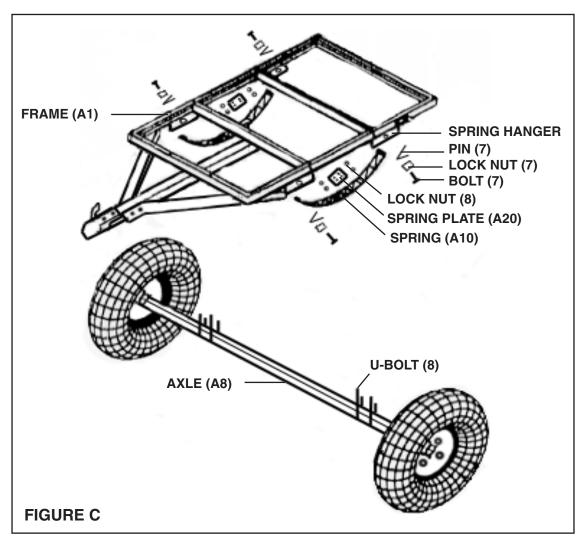
- 8. Carefully slide the Hubs (A9) over the Spindles at each end of the Axle (A8). Insert the Bearings (A9) and the Flat Washer (A9) on the Spindles. Screw a Castle Nut (11) tightly onto each Spindle. Then back the Castle Nuts off slightly so that the Hubs can just move freely. **(See Figure A)**
- 9. Place a Tire w/Rim (A15) on each Hub (A9). Secure the Tire w/Rims to the Hubs, using four Lug Nuts (A9) per Tire. **NOTE:** Make sure to tighten (torque) the Lug Nuts to at least 90 ft-lb. (See Figure A.)
- 10. Insert an Cotter Pin (A9) through the hole at the end of each Spindle of the Axle (A8) and spread the Cotter pin. **(See Figure A.)**
- 11. Fill the Caps (A9) with bearing grease. Then, press each Cap onto the Hubs (A9). **(See Figure A.)**

REV 05b

To Assemble the Frame, Tongue, and Hitch Coupler:



- On a flat, level, surface lay out the Frame (A1), Right Side Brace (A18), Left Side Brace (A17), Tow Bar (A13), Hitch Coupler (A14), and Safety Chain (A19). (See Figure B.)
- 2. Align the mounting holes located in each part with the mounting holes located in its interconnecting part. (See Figure B.)
- 3. To assemble the Frame (A1), Right Side Brace (A18), Left Side Brace (A17), and Tow Bar (A13), use the Bolts, Spring Washers, and Lock Nuts (3) as indicated. (See Figure B.)
- 4. **To connect the Hitch Coupler (A14) and Safety Chain (A19) to the Tow Bar (A13)**, use the Bolts, Spring Washers, and Lock Nuts (2) as indicated. **(See Figure B.)**



To Attach the Axle/Tire Assembly to the Springs:

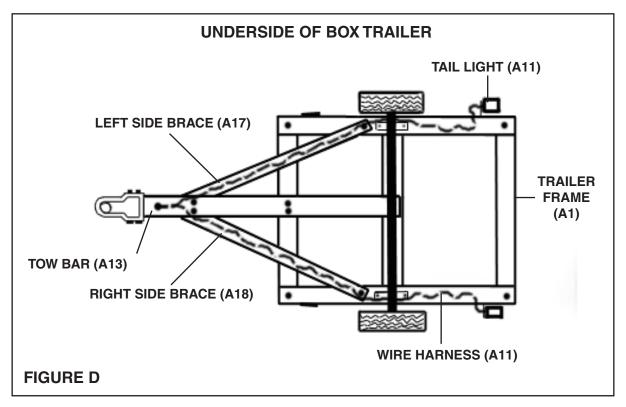
- Align the mounting hole at each end of a Spring (A10) with the mounting holes in the two Spring Hangers located in one side of the Frame (A1). Secure the Spring to the side of the Frame, using two Bolts, two Lock Nuts, and two Pins (7). Repeat this procedure to attach the remaining Spring to the other side of the Frame. (See Figure C.)
- With assistance place the Axle/Tire Assembly under the Frame (A1), with its Axle (A8) positioned under the center portion of each of the two Springs (A10).
 (See Figure C.)
- 3. On one end of the Axle (A8) insert two U-Bolts (8) upward, around the Axle and around the Spring (A10). Insert one Spring Plate (A20) onto the threaded portions of the two U-Bolts and over the Spring. Then secure the Axle to the Spring, using four Lock Nuts (8). Repeat this procedure to attach the other end of the Axle to the remaining Spring. **(See Figure C.)**

To Attach the Tail Light Bracket:

Align the two mounting holes in a Tail Light Bracket (A7) with the two mounting holes located in the side, rear section of the Frame (A1). Then secure the Tail Light Bracket to the Frame, using two Bolts, two Spring Washers, and two Nuts (3). Repeat this procedure to attach the remaining Tail Light Bracket to the other side of the Frame. **(See Assy. Diagram.)**

To Attach the Tail Light/Wire Set:

- 1. **See Wiring Diagram on page 15.** Position a Tail Light (A11) to the front of a Tail Light Bracket (A7), making sure the red plastic lenses face to the rear of the Trailer and outward from the side. Insert the two threaded mounting bolts of a Tail Light through the mounting holes located in the Tail Light Bracket. Then secure the Tail Light to the Tail Light Bracket, using two Spring Washers, and two Lock Nuts (3).
- 2. Repeat this procedure to attach the remaining Tail Light to the other Tail Light Bracket. (See Assy. Diagram.)



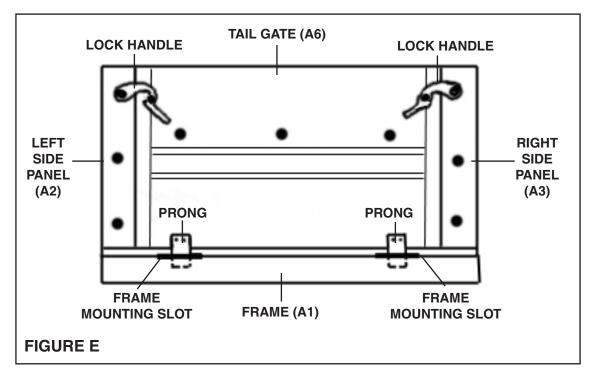
 With assistance, carefully tip the Trailer on its side to perform this procedure. <u>NOTE:</u> It is recommended to use heavy gauge, nylon, **tie strips** (not included) to attach the wiring harnesses of the Tail Lights (A11) to the **underside** of the Frame Assembly. Once finished, carefully tip the Trailer to its upright position. (See Figure D.)

To Attach the Fenders:

Align the two mounting holes in a Fender (A16) with the two mounting holes located midway along one side of the Frame (A1). Then secure the Fender to the side of the Frame, using two Bolts, two Spring Washers, and two Nuts (6). Repeat this procedure to attach the remaining Fender to the other side of the Frame. **(See Assy. Diagram.)**

To Attach the Trailer Bed and Side Panels to the Frame Assembly:

- With assistance, place the Trailer Bed (A4) on top of the Frame Assembly (A1). Make sure all *twelve* mounting holes in the Trailer Bed are aligned with the *twelve* mounting holes located on the front, rear, and sides of the Frame Assembly. (See Assy. Diagram.)
- 2. Place the Left Side Panel (A2) and Right Side Panel (A3) on the top, outer, side edges of the Trailer Bed. Make sure the *four* mounting holes in the Left Side Panel and four mounting holes in the Right Side Panel are aligned with the *four* mounting holes located on each top, outer, side edge of the Trailer Bed. **(See Assy. Diagram.)**
- Secure the Left Side Panel (A2) and Right Side Panel (A3) to the Trailer Bed (A4) and Frame Assembly (A1), using eight Bolts, eight Spring Washers, and eight Nuts (3). (See Assy. Diagram.)
- 4. Place the Front Panel (A5) on the top, outer, front edge of the Trailer Bed (A4). Make sure the *two* mounting holes in the bottom of the Front Panel are aligned with the *two* mounting holes located in the top, outer, front edge of the Trailer Bed. Also, make sure the *four* mounting holes in each end of the Front Panel are aligned with the *four* mounting holes located in the end of the Left Side Panel (A2) and *four* mounting holes located in the Right Side Panel (A3). **(See Assy. Diagram.)**
- Secure the bottom of the Front Panel (A5) to the Trailer Bed (A4) and Frame Assembly (A1), using two Bolts, two Spring Washers, and two Nuts (3). Then secure the ends of the Front Panel to the ends of the Left Side Panel (A2) and Right Side Panel (A3), using eight Bolts, eight Spring Washers, and eight Nuts (3). (See Assy. Diagram.)



6. Raise the Lock Handles on the rear of the Left Side Panel (A2) and Right Side Panel (A3). Insert the Tail Gate between the Left Side Panel and Right Side Panel. Make sure the two Prongs at the bottom of the Tail Gate are inserted into the two Mounting Slots in the rear of the Frame (A1). Then, lower the Lock Handles to lock the Tail Gate in position. (See Figure E.)

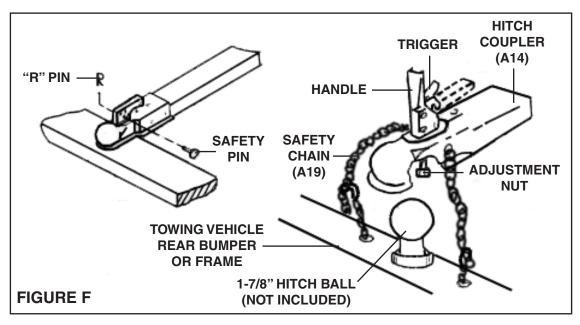
OPERATING INSTRUCTIONS

- 1. Only use a 1-7/8" ball hitch (not included) on the towing vehicle. (See Figure F.)
- <u>NOTE:</u> To reduce friction between the hitch ball and Hitch Coupler (A14), apply a layer of heavy weight grease over the hitch ball. (See Figure F.)

CAUTION

Care must be taken when backing up the Trailer; only back up the trailer on a straight path. If the Trailer is allowed to turn off the straight path while backing up, the Trailer could jackknife, causing severe damage to the trailer and to the towing vehicle.

REV 05f



- 3. Temporarily remove the "R" Pin and Safety Pin. Then, pull up on the Trigger and lift up on the Handle. (See Figure F.)
- 4. With assistance, place the Coupler (A14) over the vehicle's hitch ball and pull back on the Trigger and push down on the Handle until the Trigger locks in the slot. Pull up and down on the Coupler to make sure the hitch ball is fitting snugly in the Coupler. There should be <u>no play</u> between the hitch ball and Coupler.
 - **IMPORTANT -** If there is play, tighten the Adjustment Nut until no play is present: After unlocking the Handle, the Nut retaining plate (holding the adjusting nut in place) needs to be pressed back while the Nut is tightened. After Nut is tightened, the retaining plate needs to fit in place against the flats of the Nut to prevent it from moving. This adjustment should be done by 2 people. If the Adjustment Nut is too tight, the Handle will not lock.

After the Adjustment Nut is properly adjusted, pull back on the Trigger and push down on the Handle until the Trigger locks in the slot. **Pull up on Handle firmly** to make sure the Trigger is locked in place and the Handle cannot move. **Replace the Safety Pin and "R" Pin. (See Figure F.)**

- 5. Make sure to attach each side of the Safety Chain (A19) equally to the towing vehicle's rear bumper or frame. **(See Figure F.)**
- 6. Connect the Tail Light Wiring Assembly (A11) to the towing vehicle's 12 Volt DC system. <u>NOTE:</u> Make sure to consult the operator's manual of the towing vehicle for proper connection instructions.
- 7. When towing the Trailer over long distances stop and check the tightness of all connections and Tail Lights (A11) *at least* every 100 miles. Carry extra bulbs and fuses if towing the Trailer at night over long distances.
- 8. Carry emergency flares and fire extinguisher, if required for operation in your state.

TIRE INFORMATION

Tire Terminology Glossary

- <u>Accessory weight means</u>- the combined weight of automatic transmission, power steering, power brakes, power windows, power seats, radio, and heater, to the extent that these items are available as factory-installed equipment.
- <u>Carcass means</u>- the tire structure except for the tread which provides the major portion of the tire's capability to deflect in response to the vertical loads and tractive forces that the tire transmits from the roadway to the non-pneumatic rim, the wheel center member, or the vehicle and which attaches to the vehicle or attaches, either integrally or separably, to the wheel center member or non-pneumatic rim.
- Carcass separation means- the pulling away of the carcass from the non-pneumatic rim or wheel center member.
- **<u>Chunking means</u>** the breaking away of pieces of the carcass or tread.
- <u>Cracking means</u>- any parting within the carcass, tread, or any components that connect the tire to the wheel center member.
- <u>Curb weight means</u>- the weight of a motor vehicle with standard equipment including the maximum capacity of fuel, oil, and coolant, and, if so equipped, air conditioning and additional weight optional engine.
- Load rating means- the maximum load a tire is rated to carry.
- Maximum loaded vehicle weight means- the sum of:

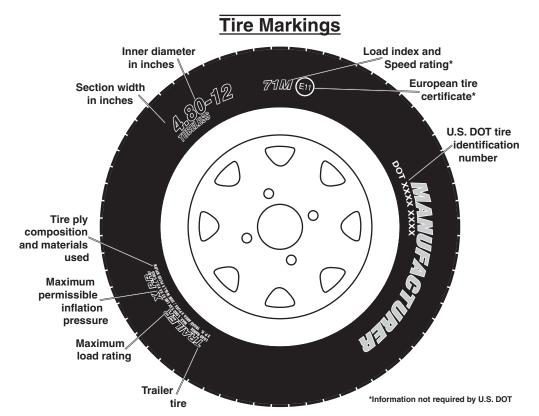
a.Curb weight;

b.Accessory weight;

c. Vehicle capacity weight; and

d. Production options weight.

- <u>Maximum tire width means</u>- the greater of either the linear distance between the exterior edges of the carcass or the linear distance between the exterior edges of the tread, both being measured parallel to the rolling axis of the tire.
- Normal occupant weight means- 68 kilograms times the number of occupants.
- Occupant distribution means- distribution of occupants in a vehicle.
- **Production options weight means** the combined weight of those installed regular production options weighing over 2.3 kilograms in excess of those standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.
- <u>Tread means</u>- that portion of the tire that comes in contact with the road.
- **<u>Tread separation means</u>** pulling away of the tread from the carcass.
- Vehicle capacity weight means- the rated cargo and luggage load plus 68 kilograms times the vehicle's designated seating capacity.
- Vehicle maximum load on the tire means- that load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight and dividing by two.
- <u>Vehicle normal load on the tire means</u>- that load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and dividing by 2.



- <u>Section width</u>- This number gives the width of the tire in inches. The larger the number, the wider the tire. (The markings on the example tire diagram show 4.80. The markings on your tire may differ.)
- Inner diameter- This number gives the inner diameter of the tire in inches. This is also the rim diameter in inches. (The markings on the example tire diagram show 12. The markings on your tire may differ.)
- U.S. DOT tire identification number- This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year that the tire was built. For example, the numbers 2107 mean the 21st week of 2007. Any other numbers used are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.
- Maximum Load Rating- This number indicates the maximum load in kilograms and pounds that can be carried by the tire.

Code	Pounds										
71	761	79	963	87	1,201	95	1,521	103	1,929		
72	783	80	992	88	1,235	96	1,565	104	1,984		
73	805	81	1,019	89	1,279	97	1,609	105	2,039		
74	827	82	1,047	90	1,323	98	1,653	106	2,094		
75	853	83	1,074	91	1,356	99	1,709	107	2,149		
76	882	84	1,102	92	1,389	100	1,764	108	2,205		
77	908	85	1,135	93	1,433	101	1,819	109	2,271		
78	937	86	1,168	94	1,477	102	1,874	110	2,337		

Load Index Rating Codes

• Load index- This is a measurement of how much weight each tire can support. See chart above. (The markings on the example tire diagram show 71. The markings on your tire may differ.) Note: You may not find this information on all tires because it is not required by law.

• Speed Rating- The speed rating denotes the speed at which a tire is designed to be driven for ex-

tended periods of time. *This does not indicate that the vehicle or rims can safely reach or maintain that speed.* These ratings are listed to the right. (The markings on the example tire diagram show M. The markings on your tire may differ.) Note: You may not find this information on all tires because it is not required by law.

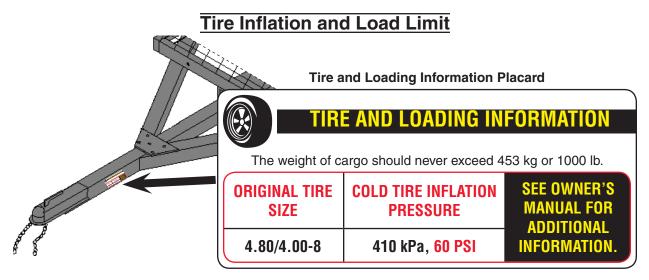
• <u>Tire Ply Composition and Materials Used</u>- The number of plies indicates the number of layers of rubber-

Tire Speed Rating Codes

Code	MPH	Code	MPH		Code	MPH	
F	50	N	87		U	124	
G	56	Р	94		Н	130	
J	62	Q	100		V	149	
K	68	R	106		Z	149	
L	75	S	112		W	168	
M	81	Т	118		Y	186	

coated fabric in the tire. In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

• Maximum Permissible Inflation Pressure- This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.



Tire and Loading Information Placard Location

The Tire and Loading Information Placard displays the cold tire inflation pressure and the load limit for this vehicle. See the Tire Care section starting on the following page for an explanation of tire pressure and see the Vehicle Load Limit section following that for an explanation of load limit.

TIRE CARE

Checking Tire Pressure

Note: Underinflated tires can decrease handling, stopping performance, traction, tire life, and load-carrying capability, in addition to causing other negative and hazardous effects, including tire failure. Overinflated tires are at greater risk of an impact break, where the tread and casing break when striking a hard edge, often opening a huge gash across the tread. Incorrect inflation pressure also increases tires wear rate. Therefore, it is important to keep tires inflated properly.

Check all tires' pressure at least monthly, due to the following factors:

- Most tires naturally lose air gradually.
- Tires can suddenly lose air if the tire strikes a pothole, curb, or other object.
- It is usually not possible to determine underinflation of radial tires by visual inspection.

This vehicle has 60 PSI recommended cold tire inflation pressure. The term "cold" in this manual does not refer to the temperature outside, but it refers to the fact that a tire that has not been driven for a period is cooler (and therefore has lower pressure) than a tire that has been driven on. Tires heat up while being driven on. To check (or fill to) a tire's cold inflation, the tire must have not been driven for more than a mile or two for at least three hours. If you check a tires pressure when it is not "cold", the pressure will appear higher than the actual cold tire inflation.

Steps for Maintaining Proper Tire Pressure

- 1. Locate the recommended tire pressure on the vehicle's tire information placard, certification label, or in the owner's manual. This trailer has 60 PSI recommended cold tire inflation pressure.
- 2. Measure and record the tire pressure of all tires.
- 3. If the tire pressure is too high in any of the tires and the tires have not been driven for at least three hours, slowly release air by gently pressing on the tire valve stem with the edge of your tire gauge until you get to the correct pressure. If the vehicle have been driven within the past three hours and the tire pressure is too high on any tires, then recheck the pressure once the tires have been allowed to sit motionless for at least three hours.
- 4. If the tire pressure is too low, note the difference between the measured tire pressure and the correct tire pressure. These "missing" pounds of pressure are what you will need to add.
- 5. At a service station, add the missing pounds of air pressure to each tire that is underinflated.

- 6. Check all the tires to make sure they have the same air pressure.
- 7. If the tires' pressure was not measured "cold", then the pressure should be rechecked with the tires cold as soon as possible.

Tire Size

To maintain safety, only purchase new tires of the same size as the original tires. Look at the Tire and Loading Information Placard, the Specifications Chart in this manual, or the sidewall of the tire being replaced. If you have any doubt about selecting the correct size, consult a tire dealer.

Tire Tread

The tire tread provides traction that prevents your vehicle from slipping, especially if the road is wet or icy. Tires are unsafe and should be replaced when the tread is worn down to 1/16". Measure tread depth using a tread depth indicator (not included).

Tire Rotation

Every 5,000 miles the left and right tires should be switched. This will cause the tires to wear more evenly and last longer.

Tire Balance and Alignment

The tires need to be balanced to prevent vibration when driving. This involves attaching small weights to the rim to offset small differences in rim and tire weight. The tires also need to be aligned properly. Alignment is the orientation of the tires to the road surface and their being parallel. This helps the tires to wear evenly, and provide better traction. Both tire balance and alignment require specialized equipment that is not provided with this vehicle.

Tire Repair

To properly repair a punctured tire, the hole needs to be properly plugged and patched from the inside of the tire. Tread punctures can be repaired if they are not too large. Sidewall punctures should not be repaired, the tire needs to be replaced if the sidewall is damaged. Tires should be removed from the rim to be inspected before being plugged and patched. A qualified mechanic should remove the tire from the rim, perform the repair, and remount the tire.

VEHICLE LOAD LIMIT

Steps for Determining Correct Load Limit

- 1. Locate the statement "The weight of cargo should never exceed XXX pounds" on your vehicle's placard.
- 2. That figure equals the available amount of cargo and luggage load capacity.
- 3. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity.
- 4. If the trailer's load exceeds the cargo and luggage load capacity, then the trailer be unsafe resulting in hazardous effects, such as: Trailer's tires will not be able to maintain traction properly, and stopping distance will be increased significantly.

INSPECTION, MAINTENANCE, AND CLEANING

- 1. **BEFORE EACH USE**, inspect the general condition of the Trailer. Check for loose Bolts and Nuts, misalignment or binding of moving parts, cracked, bent, or broken parts, excessively worn Safety Chain , damaged Tail Lights/Side Running Lights/ Wiring Harness, loose Lug Nuts, loose Hitch connection, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. **Do not use damaged equipment.**
- 2. **BEFORE EACH USE,** check the Tires according to the instructions on the previous pages.
- 3. **BEFORE EVERY USE AND AT 500 MILE INTERVALS DURING EVERY TRIP**, check and tighten the Tire Lug Nuts. Torque from 85 to 90 ft-lb.
- 4. EVERY 2,000 TO 3,000 MILES OF USE, lubricate the Hub Assemblies with a heavy weight bearing grease. Follow the Bearing Packing Instructions as explained on page 5. After each Hub Assembly is reassembled, tighten the Castle Nut until the wheel starts spinning with slight resistance. Loosen the Castle Nut about 1/6 turn from this point. Insert a new Cotter Pin through the Castle Nut and the hole in the axle. Bend the Pin back, locking it and the Nut in place.
- 5. **TO CLEAN**, use only water and a mild detergent.

PARTS LISTS AND DIAGRAMS

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEI-THER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/ OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACE-MENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARIS-ING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACE-MENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

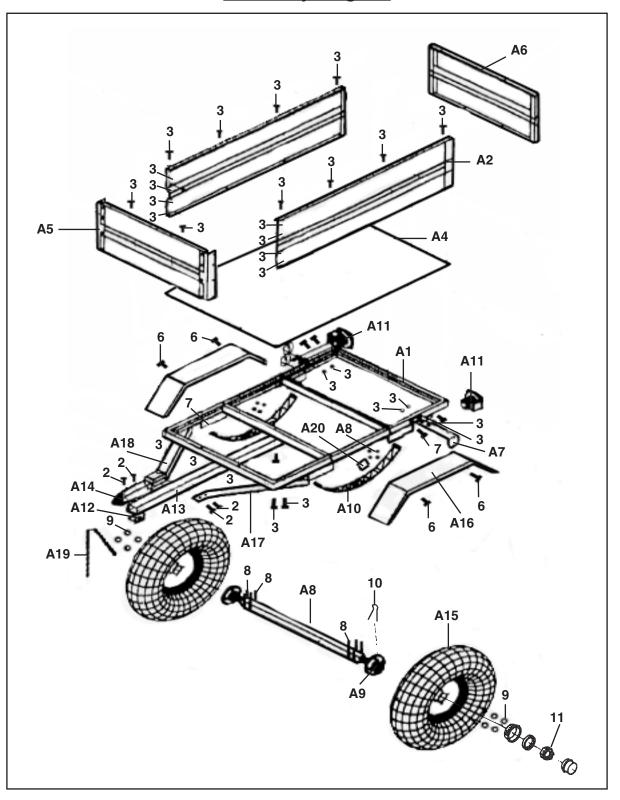
Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

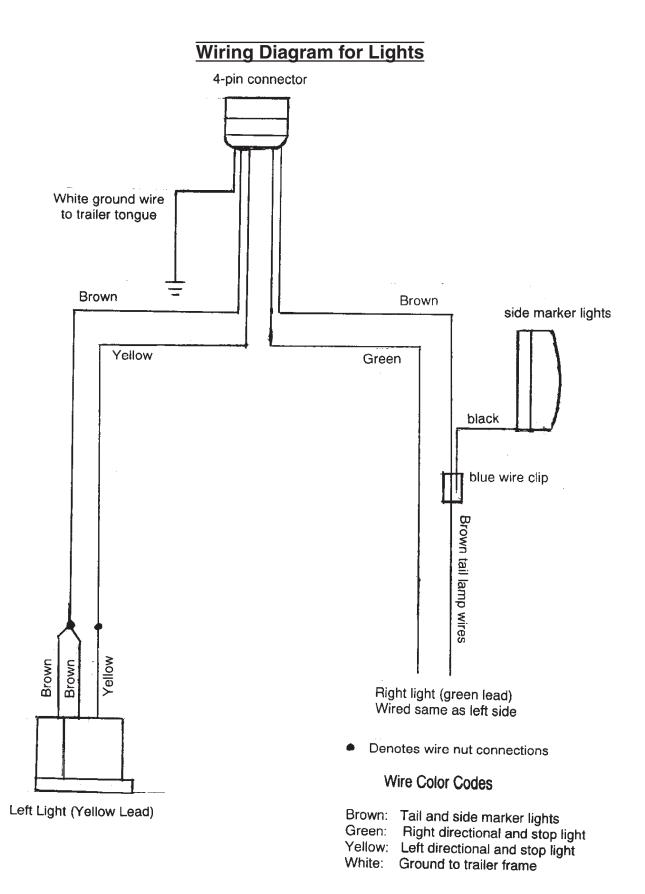
Part	Description	Qty.	Part
A1	Trailer Frame	1	1
A2	Left Side Panel	1	
A3	Right Side Panel	1	
A4	Trailer Bed	1	2
A5	Front Panel	1	
A6	Tail Gate	1	
A7	Light Bracket	2	3
A8	Axle	1	
A9	Hub/Bearings/Seal/Cap	2	4
A10	Spring	2	5
A11	Light/Wire Set	1	5
A12	Support	1	6
A13	Tow Bar	1	0
A14	Hitch Coupler	1	
A15	Tire/Rim	2	7
A16	Fender	2	
A17	Left Side Brace	2	8
A18	Right Side Brace	1	0
A19	Safety Chain	1	9
A20	Spring Plate	2	10
			11

Parts List

Part	Description	Qty.
1	M16 x 15 Bolt	6
1	M6 Lock Nut	6
	M10 x 80 Bolt	6
2	M10 Lock Nut	4
	10 Spring Washer	2
	M8 x 25 Bolt	18
3	M8 Lock Nut	18
	8 Spring Washer	18
4	M8 x 25 Crew Cut Screw	2
-	M6 x 20 Bolt	2
5	M6 Lock Nut	2
6	M6 x 15 Bolt w/Nut	4
0	6 Spring Washer	4
	M14 x 85 Bolt	4
7	M14 Lock Nut	4
	2.5 x 25 Pin	4
0	U-Bolt	4
8	Lock Nut	8
9	Lug Nut	8
10	Cotter Pin	2
11	Castle Nut	2

Assembly Diagram





LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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