

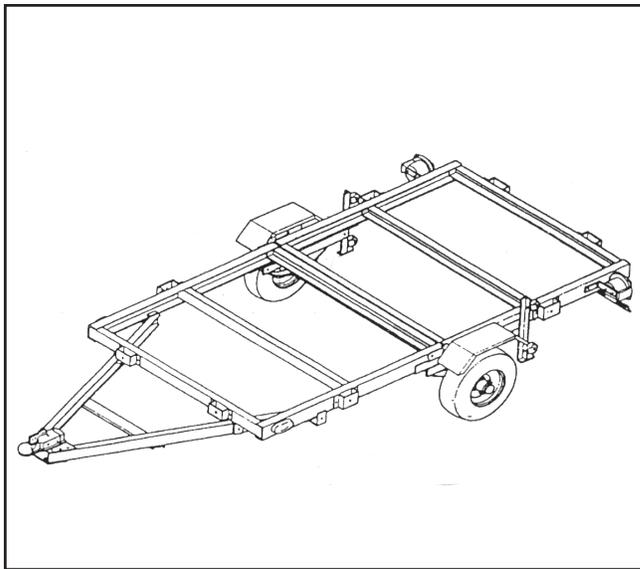


# TRAILER

## FOLDABLE - WITH 12" WHEELS

MODEL 90154

### ASSEMBLY AND OPERATING 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.**



Copyright© 2003 by Harbor Freight Tools®. All rights reserved. No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.

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

Rev 10/04

## PRODUCT SPECIFICATIONS

ITEM	DESCRIPTION
Maximum Weight Capacity	1,450 Lbs.
Bed Dimensions	4 Ft. x 8 Ft.
Hitch Ball Size	1-7/8"
Wheel Rim Diameter/Width	12" x 4"
Quantity Wheel Lug Nuts	4 Per Wheel
Tire Size	4.80 - 12
Required Tire Air Pressure	60 PSI
Overall Dimensions	140' L x 61-1/2" W x 19-1/4" H
Trailer Weight	266 Lbs.

## 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 EXCEED THE TRAILER'S MAXIMUM WEIGHT CAPACITY OF 1,450 POUNDS.**
2. **BEFORE EACH USE, ALWAYS EXAMINE THE TRAILER FOR PROPER TIRE (19) AIR PRESSURE, DAMAGED TAIL LIGHTS (28L, 28R), DAMAGED SIDE RUNNING LIGHTS (24), LOOSE BOLTS AND NUTS, STRUCTURAL CRACKS, BENDS, AND ANY OTHER CONDITION THAT MAY AFFECT ITS SAFE OPERATION.** 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 (8) 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 (16).
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 (7) 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, SURFACE 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. **MAINTAIN LABELS AND NAMEPLATES ON THE TRAILER.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

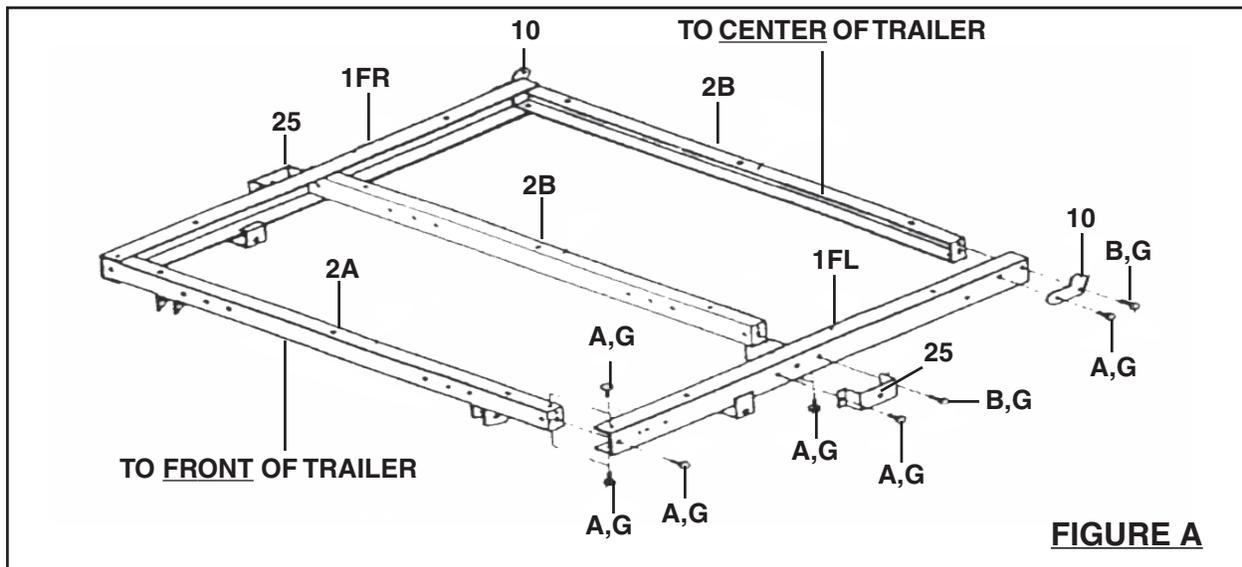
## UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts List (page 19)** 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.

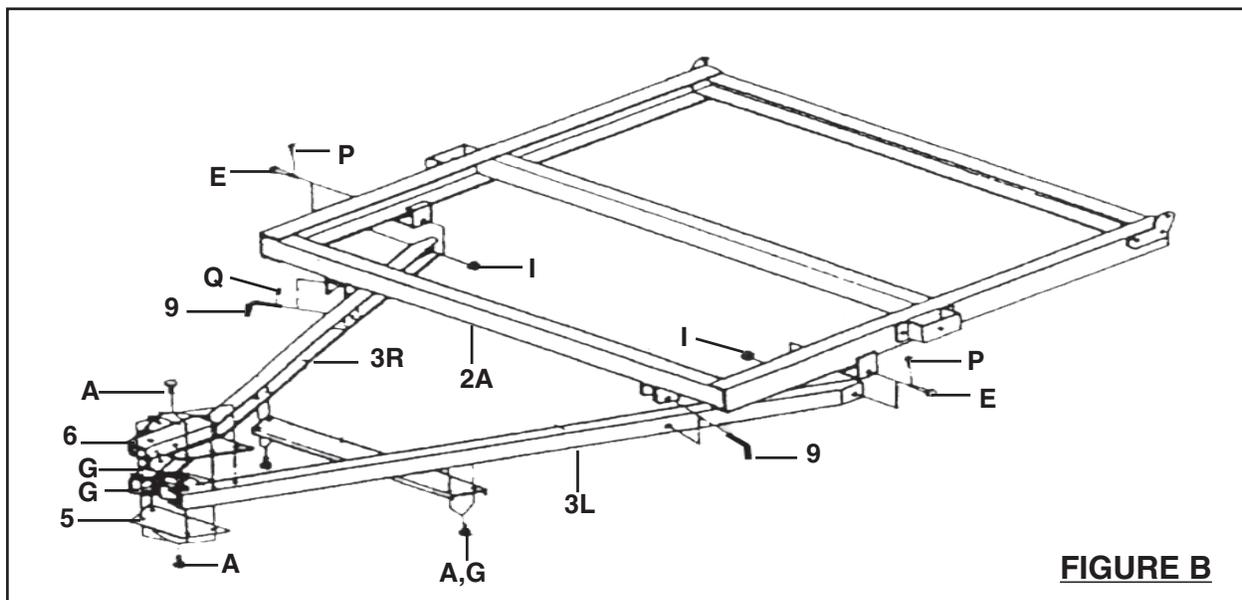
## ASSEMBLY INSTRUCTIONS

**NOTE:** For additional references to the parts listed on the following pages, refer to the **Assembly Diagram (page 20)**. Be sure to read the **Bearing Packing Instructions on the last page of this manual**.

1. On a flat, level, surface, lay out *one* Front Left Side Rail (1FL), *one* Front Right Side Rail (1FR), *one* Cross Member (2A), and *two* Cross Members (2B). Lay out two Rotation Plates (10) and two Stake Clamps (25). Assemble the parts, using the 3/8" x 3/4" Bolts (A), 3/8" Nylon Nuts (G) and also the 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). **(See Figure A.)**

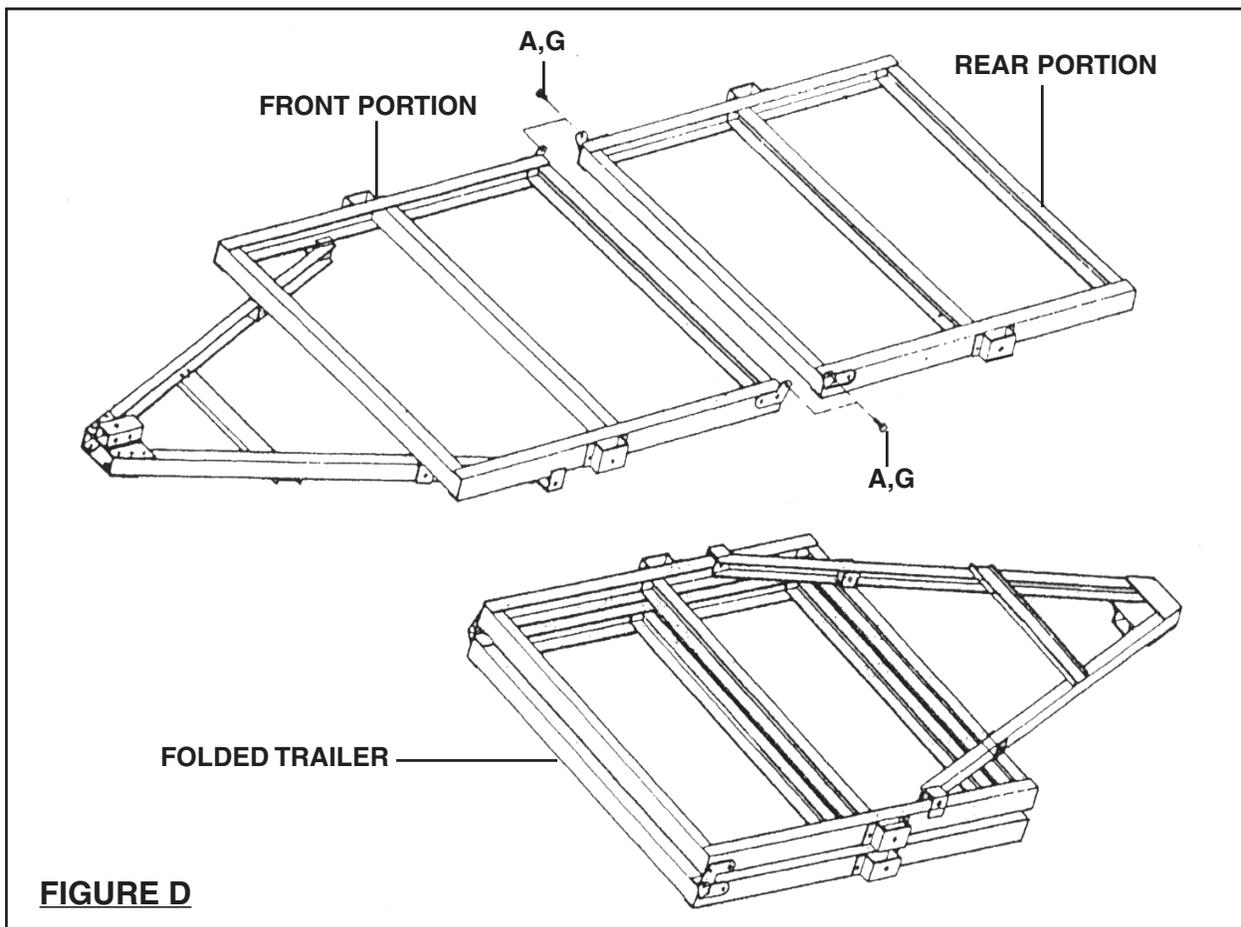
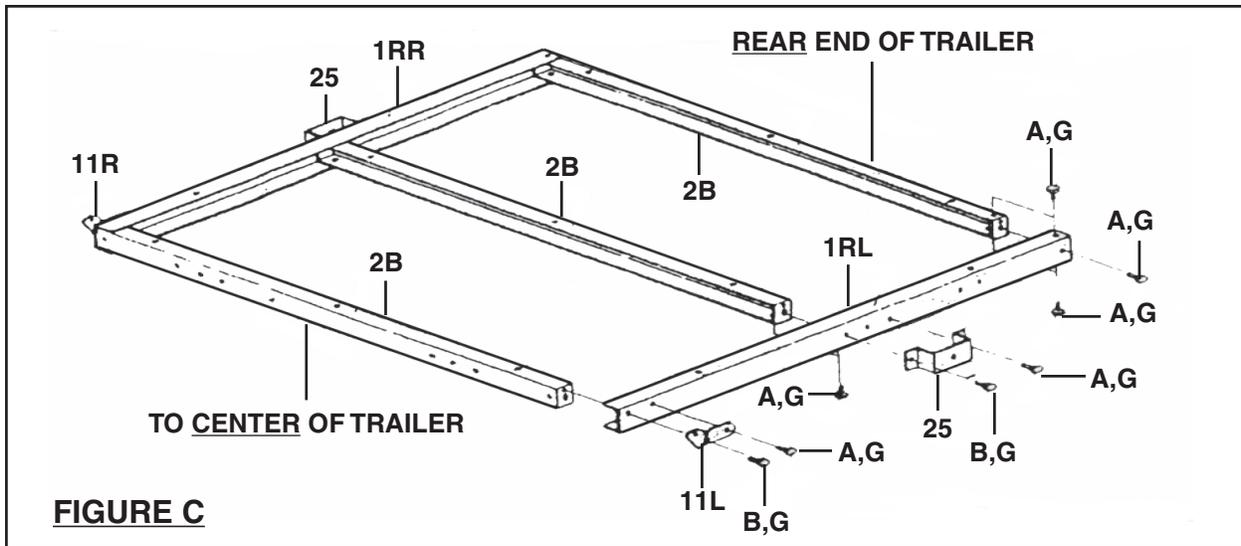


2. Attach the Left Connecting Rail (3L) and the Right Connecting Rail (3R) to the Front Left Side Rail (1FL) and Front Right Side Rail (1FR), using the 9/16" Bolts (E), 9/16" Hex Nuts (I), and 1/8" Cotter Pins (P).
3. Insert the "L" Latches (9) through the Left Connecting Rail (3L), Right Connecting Rail (3R), and Cross Member (2A). Secure the "L" Latches using the 3 mm R Pins (Q). **(See Figure B.)**
4. Attach the Spare Tire Bar (4) to the Left Connecting Rail (3L) and the Right Connecting Rail (3R), using the 3/8" Bolts (A) and 3/8" Nylon Nuts (G). **(See Figure B.)**
5. Attach the "T" Plate (5) and Coupler Base (6) to the Left Connecting Rail (3L) and the Right Connecting Rail (3R), using the 3/8" Bolts (A) and 3/8" Nylon Nuts (G). **(See Figure B.)**



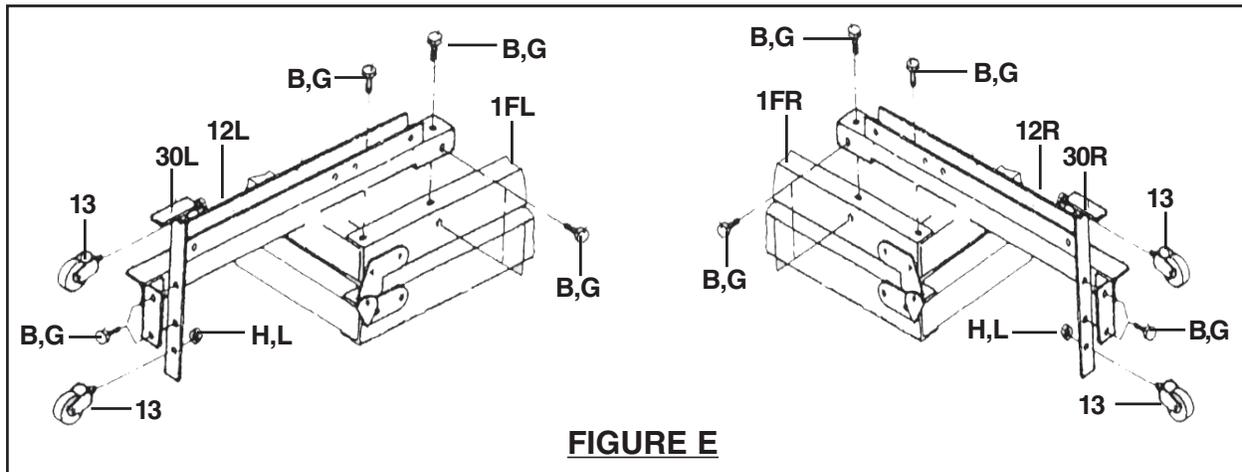
**FIGURE B**

6. Lay out *one* Rear Left Side Rail (1RL), *one* Rear Right Side Rail (1RR), and *three* Cross Members (2B). Lay out two Rotation Plates (11L, 11R) and two Stake Clamps (25). Assemble the parts, using the 3/8" x 3/4" Bolts (A), 3/8" Nylon Nuts (G) and also the 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). **(See Figure C, next page.)**
7. Assemble the front portion and the rear portion of the Trailer, using the 3/8" x 3/4" Bolts (A), 3/8" Nylon Nuts (G). Then, fold the Trailer. **(See Figure D, next page.)**

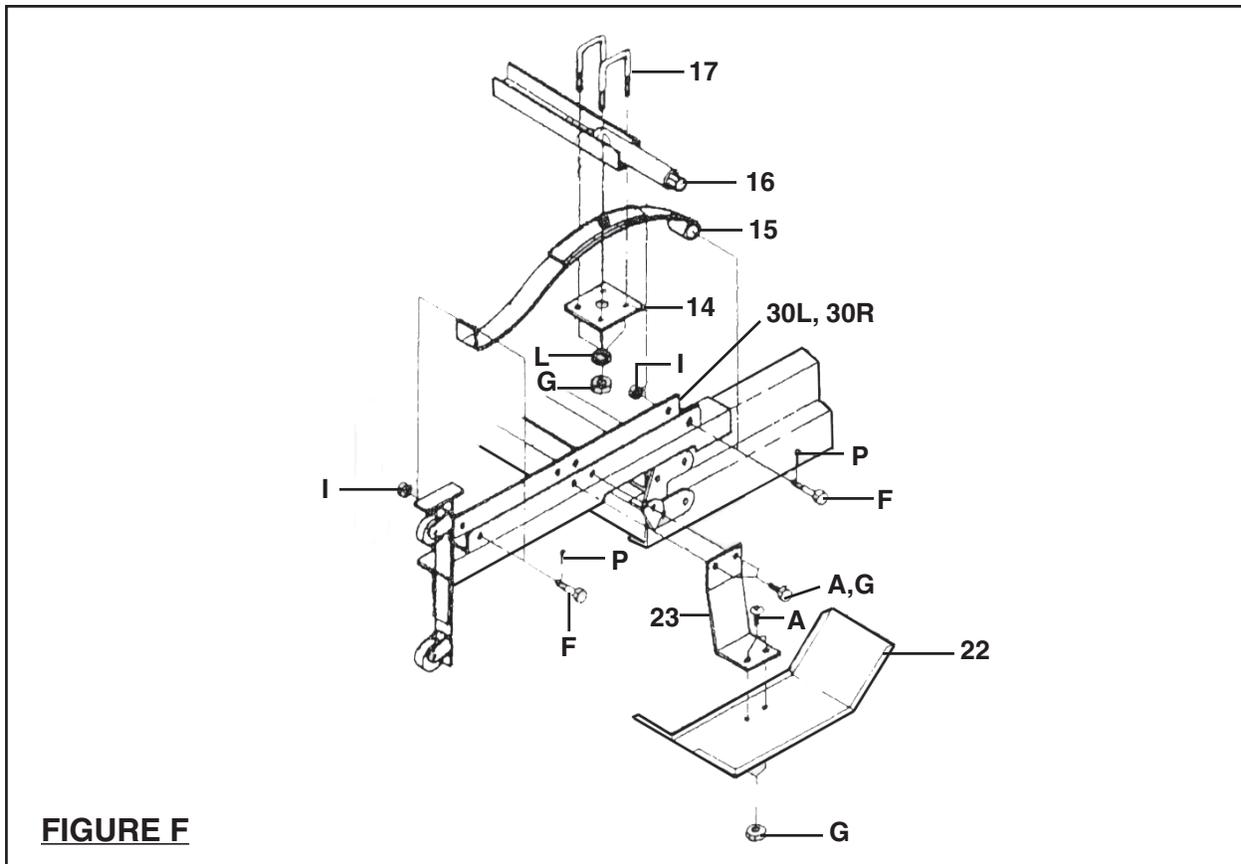


8. With the Trailer in its folded position, attach the Spring Hanger (12L) to the Front Left Side Rail (1FL), using 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). Attach the Spring Hanger (12R) to the Front Right Side Rail (1FR), using 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). (See Figure E.)

9. Attach the Caster Base (30L) to the Spring Hanger (12L), using 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). Attach the Caster Base (30R) to the Spring Hanger (12R), using 3/8" x 1" Bolts (B) and 3/8" Nylon Nuts (G). **(See Figure E.)**
10. Attach the Casters (13) to the two Caster Bases (30L, 30R), using 3/8" Hex Nuts (H) and 3/8" Spring Washers (L). **(See Figure E.)**



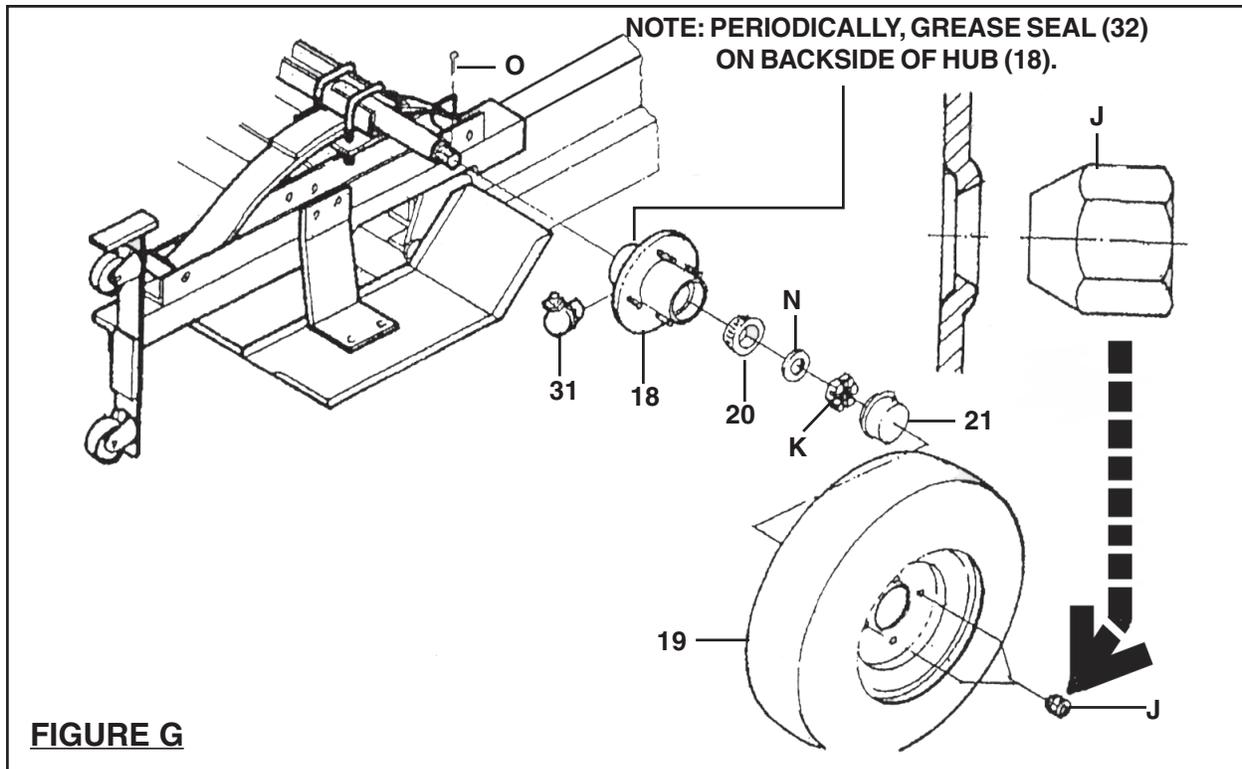
11. Attach the two Fender Seat (23) to the two Caster Bases (30L, 30R), using the 3/8" Bolts (A) and 3/8" Nylon Nuts (G). Then attach the two Fenders (22) to the two Fender Seats, using the 3/8" Bolts (A) and 3/8" Nylon Nuts (G). **(See Figure F, next page.)**
12. Attach the two Springs (15) to the two Caster Bases (30L, 30R), using 9/16" x 3-1/4" Bolts (F) and 9/16" Hex Nuts (I). Leave these Bolts loose for now to allow proper assembly in the next step. Insert a Cotter Pin (P) through the holes in the end of the Bolts and spread the Cotter Pins. **(See Figure F.)**
13. Place the Axle (16) on top of both Springs (15). Position the two Spring Plates (14) under the two Springs. On each end of the Axle, insert two U-Bolts (17) downward over the Axle and through the mounting holes in each of the two Spring Plates. The Spring Plates may need to be adjusted slightly to allow the holes to line up. Then secure the Axle and Spring assemblies, using 3/8" Spring Washers (L) and 3/8" Nylon Nuts (G). After doing this, tighten the Bolts (F) and Nuts (I) left loose in the last step. **(See Figure F.)**



**FIGURE F**

14. Attach the Grease Fitting (31) to the Hub (18). Carefully slide a Hub over the spindle at each end of the Axle (16). Follow the directions on *Bearing Packing* on the last page of this manual. Insert the Outer Bearings (20) onto the spindles of both ends of the Axle. Insert the 3/4" Flat Washer (N) onto each spindle of the Axle. Then secure the Hub and Bearing assemblies, using the Castle Nuts (K). **(See Figure G, next page.)**
15. **NOTE:** Back the Castle Nuts (K) off slightly so the Tires (19) can just move freely. Insert a Cotter Pin (O) through the hole in the ends of the spindles of the Axle (16) and spread the Cotter Pins. **(See Figure G.)**
16. Press each Dust Cap onto each Hub (18). **(See Figure G.)**
17. Place a Tire/Wheel Assembly (19) onto each Hub (18). Secure each Tire/Wheel assembly firmly to the Hubs, using the Lug Nuts (J)  
**NOTE:** Make sure the Lug Nuts are torqued to at least **90 Ft.-Lbs.**
18. With assistance, extend the Trailer Bed to full length by lifting the upper section 180 degrees towards the rear of the Trailer. **(See Figure H, page 11.)**
19. Attach the Coupler (7) to the Coupler Base (6), using a 3/8" x 3-1/2" Bolt (W). Lock the Coupler Trigger with the Safety Pin (29). Then, insert the "R" Pin (S) through

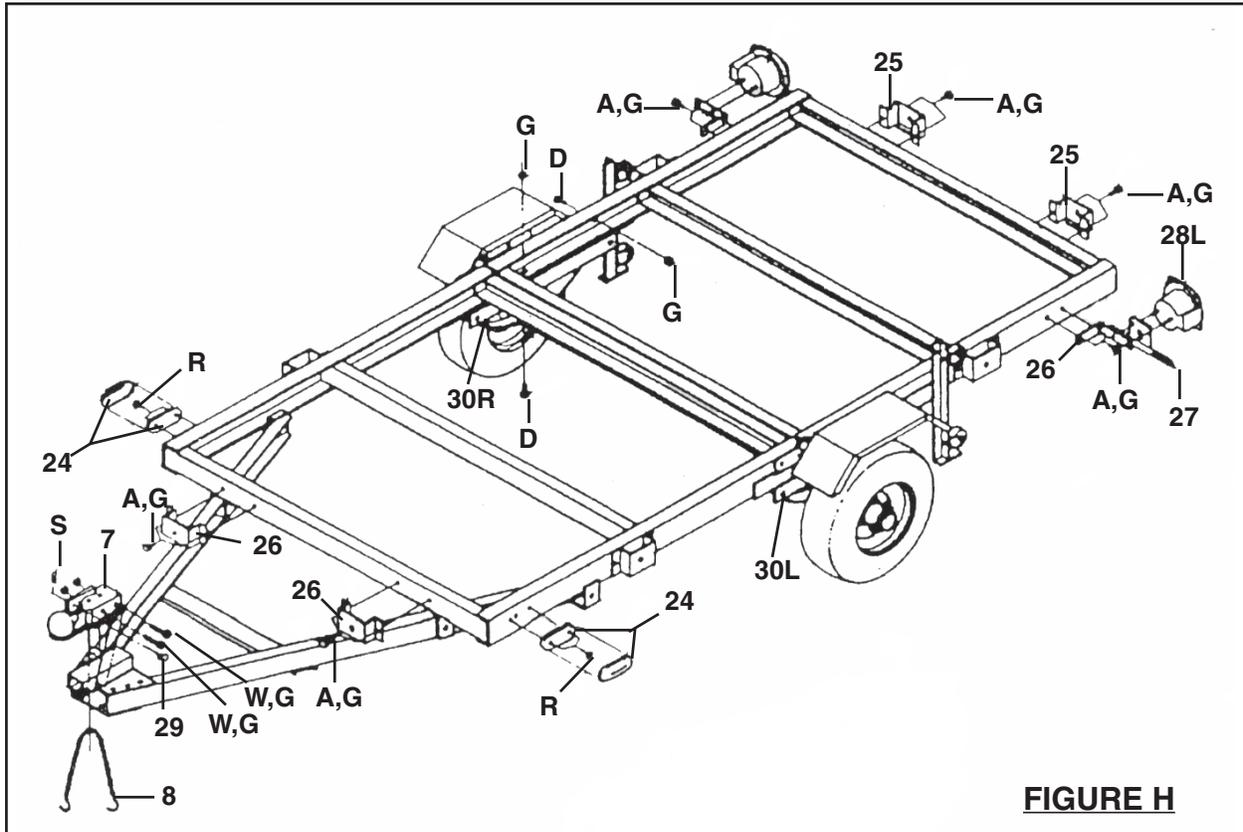
REV 07/04



the hole in the Safety Pin (29) to secure the Safety Pin in place.  
(See Figure H, next page.)

20. To attach the Safety Chain (8) to the Hitch Coupler (7), insert a 3/8" x 3-1/2" Bolt (W) through the center link of the Chain. Then, use a 3/8" Nylon Nut (G) to secure the Safety Chain to the Hitch Coupler. (See Figure H.)
21. Attach two Stake Clamps (25) to the Front Cross Member (2A), using 3/8" x 3/4" Bolts (A) and 3/8" Nylon Nuts (G). Then, repeat this Step for the remaining two Stake Clamps and the Rear Cross Member (2B). (See Figure H.)
22. Remove the Lens from a Side Running Light (24). Insert the Wire Lead of the Side Running Light through the center hole of the Front Left Side Rail (1FL). Attach the Side Running Light to the Front Left Side Rail, using the Self Tapping Screws (R). Then, reattach the Lens to the Side Running Light. Repeat this Step for the remaining Side Running Light and the Front Right Side Rail (1FR). (See Figure H.)
23. Attach a Tail Light Bracket (26) to the Rear Left Side Rail (1RL), using 3/8" x 3/4" Bolts (A) and 3/8" Nylon Nuts (G). Attach the License Plate Bracket (27) and Left Tail Light (28L) to the Tail Light Bracket, using 3/8" Nylon Nuts (G). Repeat this Step for the remaining Tail Light Bracket and Rear Right Side Rail (1RR). (See Figure H.)

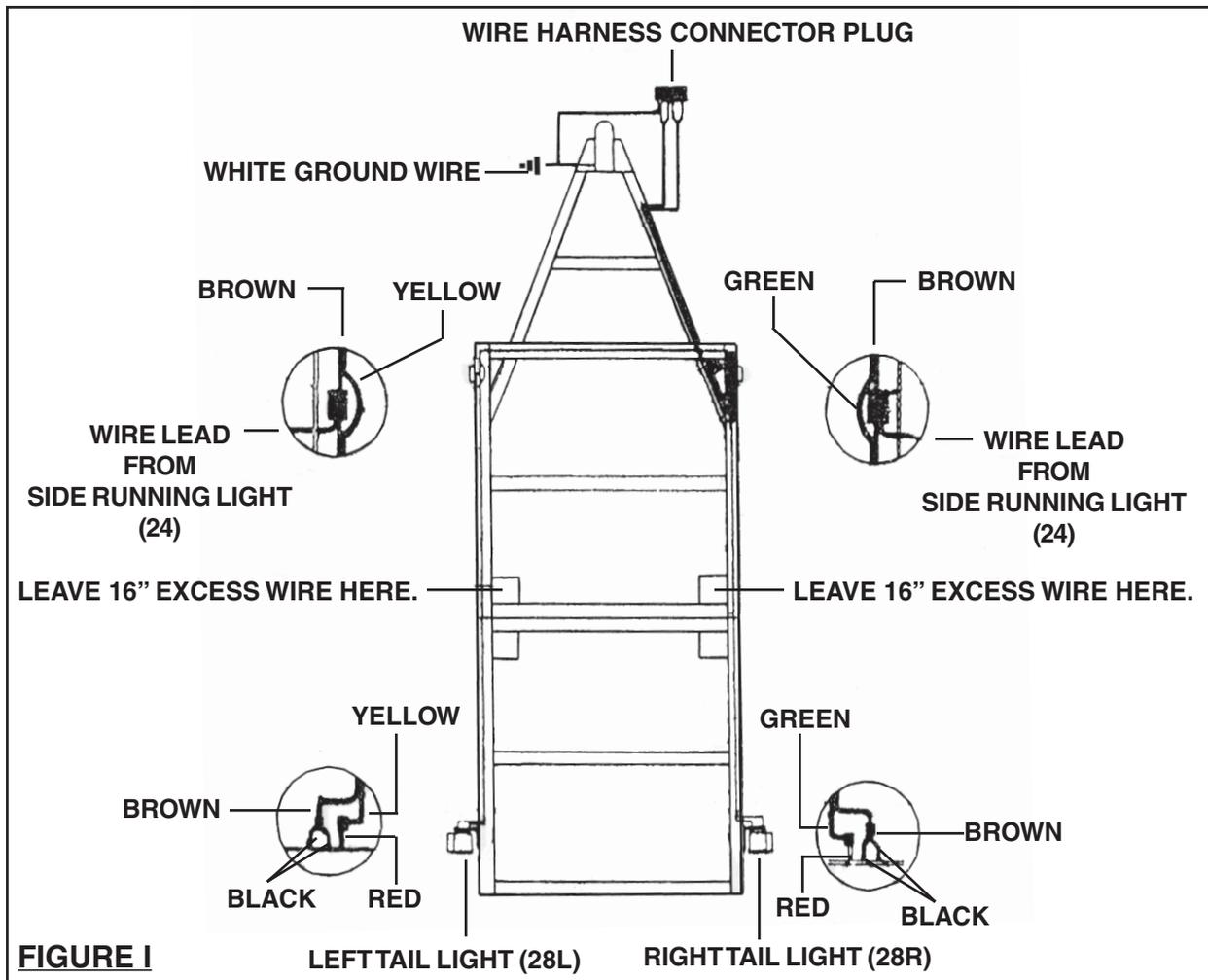
24. Secure the rear portion of the Trailer's frame to the Caster Bases (30L, 30R), using 3/8" x 1" Carriage Bolts (D) and 3/8" Nylon Nuts (G). **(See Figure H.)**



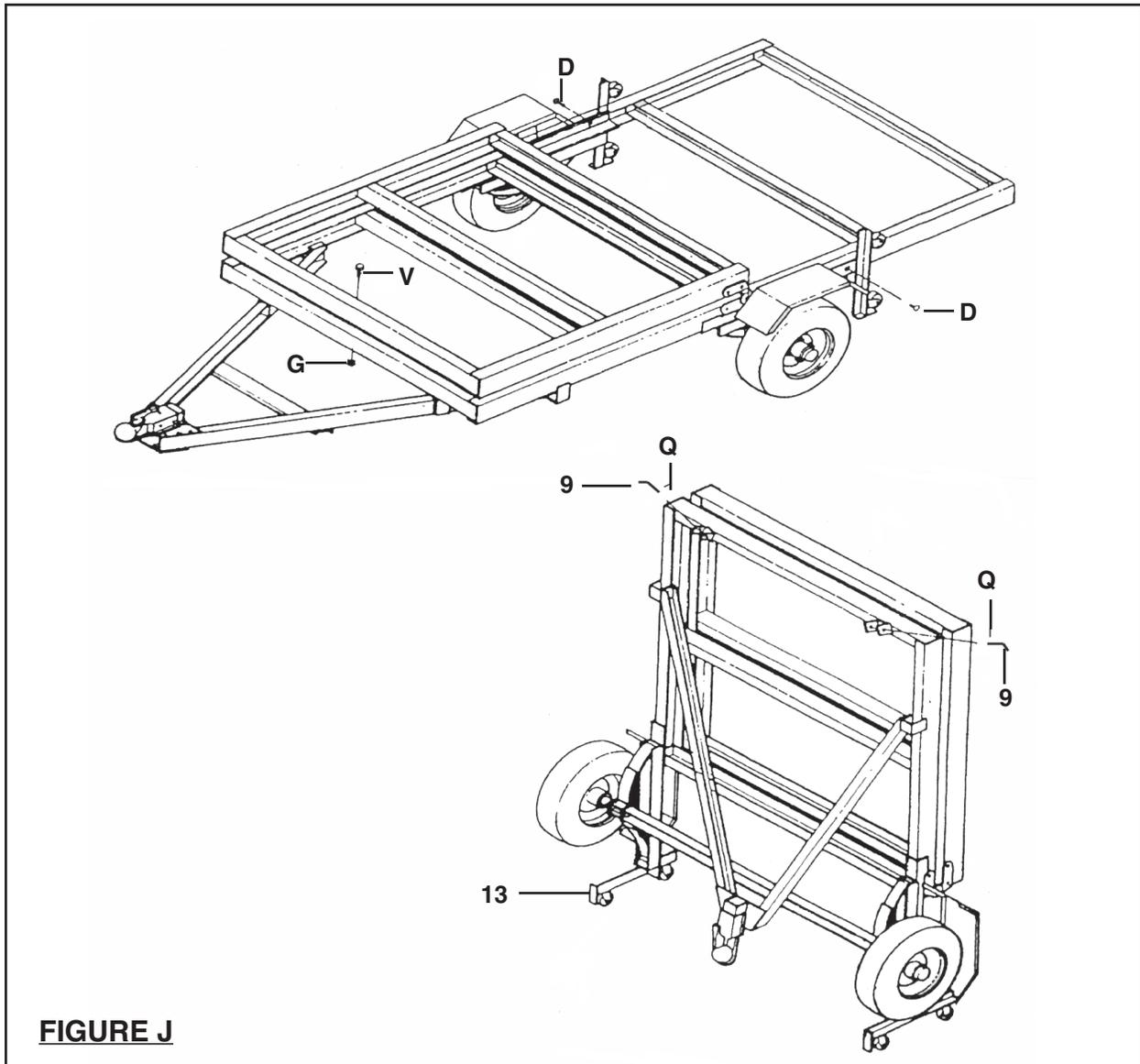
**FIGURE H**

25. To install the Wiring Harness on the Trailer, use a Self Tapping Screw (U) to attach the White Ground Wire located at the Plug end of the Wiring Harness to the small mounting hole in the Right Connecting Rail (3R). **(See Figure I, next page.)**
26. Leave about 18" of wire beyond the Hitch Coupler (7), and run the Wiring Harness along the inside of the Right Connection Rail (3R) to the Front Right Side Rail (1FR). Then, split the Yellow/Brown Wires from the Green/Brown Wires. **(See Figure I.)**
27. Run the Yellow/Brown Wires along the inside of the Front Cross Member (2A) to the Side Running Light (24) located on the Front Left Side Rail (1FL). Then, run the Green/Brown Wires along the inside of the Front Right Side Rail (1FR) to the other Side Running Light. **(See Figure I.)**

28. Connect the Wire Lead from the two Side Running Lights (24) to the Brown Wire on each side of the Trailer. Then, insert Wire Clips along the entire length of the Side Rails of the Trailer to hold down the Wiring Harness. **(See Figure I.)**
29. Run the Yellow/Brown Wires to the Left Tail Light (28L). Strip the ends of the Wires about 3/4". Connect the Yellow Wire to the Red Wire of the Left Tail Light. Then, connect the Brown Wire to the two Black Wires of the Left Tail Light. **(See Figure I.)**
30. Run the Green/Brown Wires to the Right Tail Light (28R). Strip the ends of the Wires about 3/4". Connect the Green Wire to the Red Wire of the Right Tail Light. Then, connect the Brown Wire to the two Black Wires of the Right Tail Light. **(See Figure I.)**
31. **NOTE:** It is recommended that only a qualified technician perform the electrical service that may be needed to enable your particular make/model vehicle to power the Trailer's 12 volt DC lighting system.

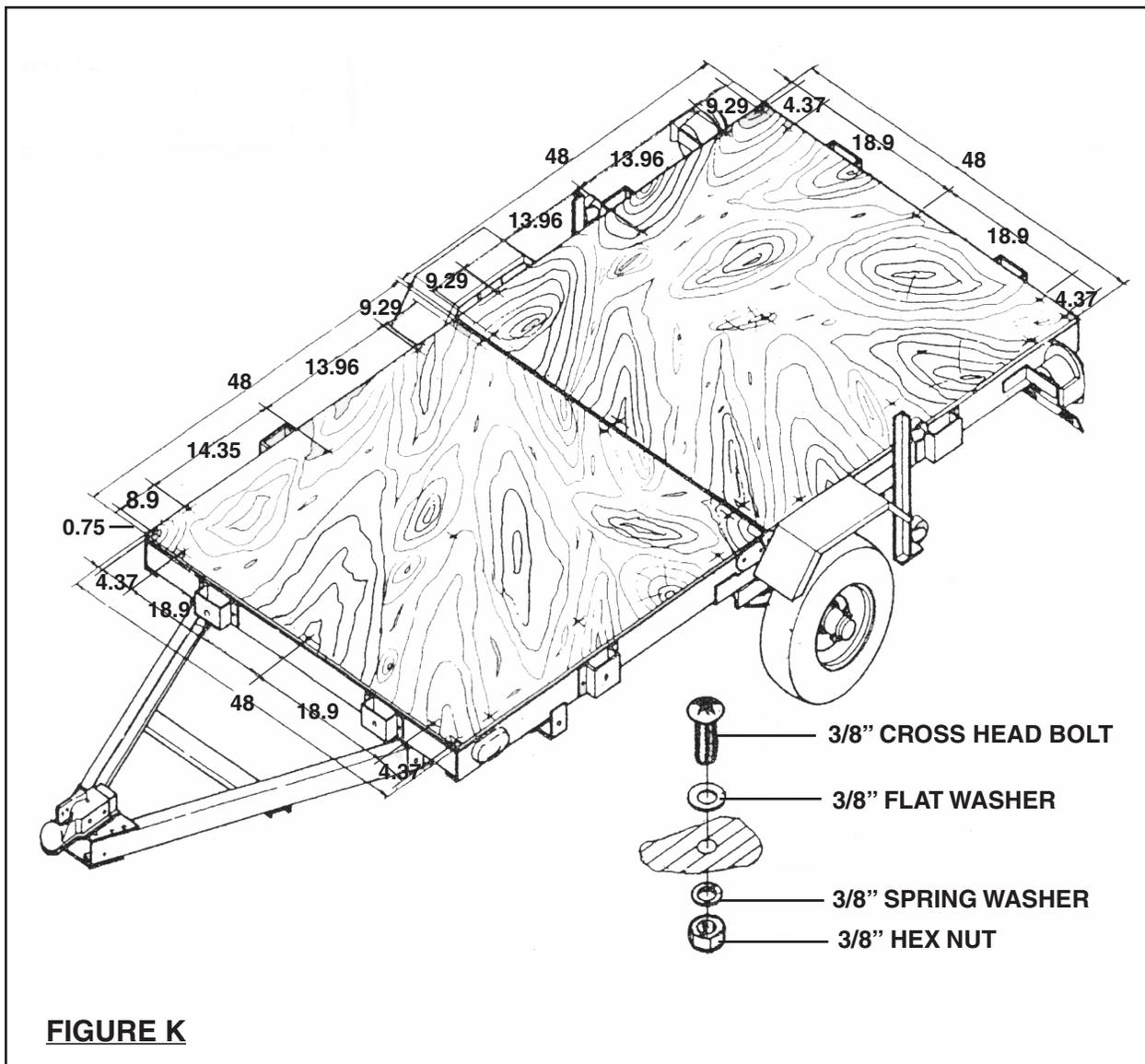


32. To fold the Trailer, unscrew and remove the two 3/8" x 1" Carriage Bolts (D) from the Rear Left Side Rail (1RL) and Rear Right Side Rail (1RR). **(See Figure J.)**
33. With assistance, fold the rear section of the Trailer over the front section of the Trailer and secure with a 3/8" x 2" Carriage Bolt (V) and 3/8" Nylon Nut (G). **(See Figure J.)**
34. With assistance, tilt the Trailer onto its Casters (13). Then, remove the two "L" Latches (9) and fold the Trailer Tongue down. **(See Figure J.)**
35. **NOTE:** To avoid damage to Casters (13), avoid rolling the Trailer on its Casters over long distances.

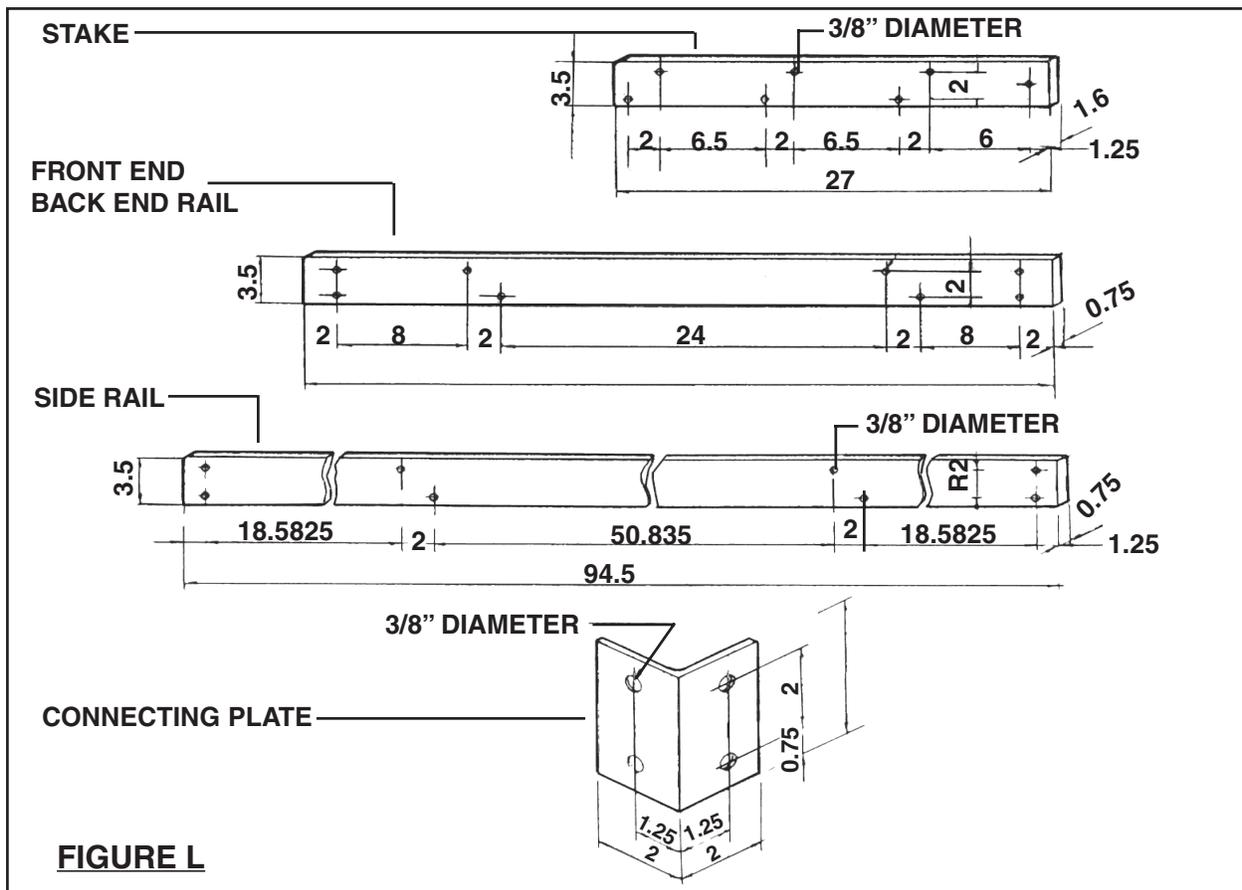


**FIGURE J**

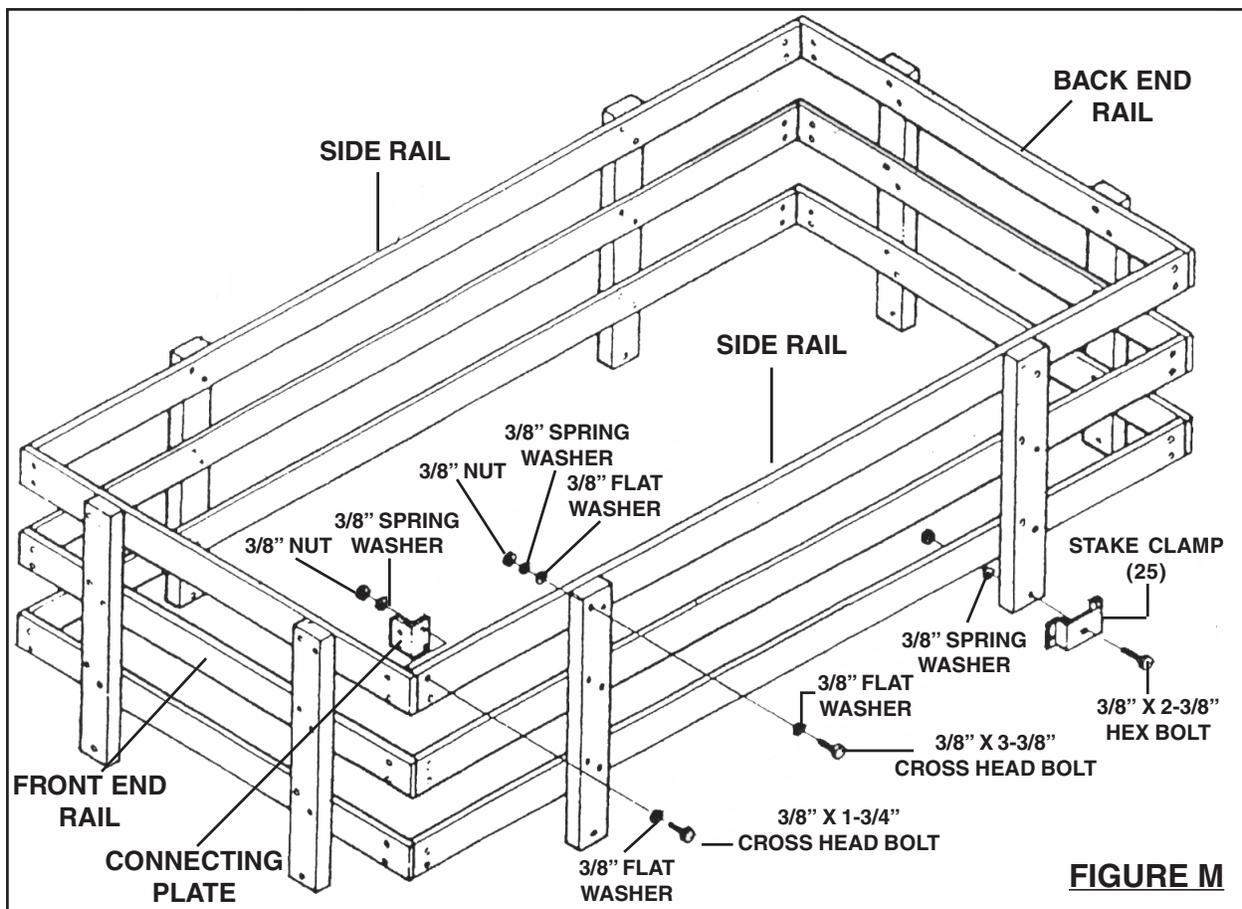
36. To attach a **bed** (not included) to the frame of the Trailer, it is recommended to use the following parts:
- A. **Qty. 2:** 3/4" x 48" x 48" Plywood (not included).
  - B. **Qty. 24-30:** 3/8" Cross Head Bolts (not included).
  - C. **Qty. 24-30:** 3/8" Flat Washers (not included).
  - D. **Qty. 24-30:** 3/8" Spring Washers (not included).
  - E. **Qty. 24-30:** 3/8" Hex Nuts (not included).
- (See Figure K.)
37. As shown in the diagram, drill all mounting holes with a 3/8" high speed drill bit.  
(See Figure K.)
38. Use the 3/8" Cross Head Bolts, 3/8" Flat Washers, 3/8" Spring Washers, and 3/8" Hex Nuts to secure the Plywood bed to the Trailer frame. (See Figure K.)



39. To attach **rails** (not included) to the Trailer, it is recommended to use the following parts:
- A. **Qty. 8:** 1.6" x 3.5" x 27" wood strips (not included).
  - B. **Qty. 6:** 0.75" x 3.5" x 48" wood strips (not included).
  - C. **Qty. 6:** 0.75" x 3.5" x 94.5" wood strips (not included).
  - D. **Qty. 4:** 0.175" x 2" x 2" x 3.5" Steel Angle (not included).
  - E. **Qty. 16:** 3/8" x 1-3/4" Hex Bolt (not included).
  - F. **Qty. 8:** 3/8" x 2-3/8" Hex Bolt (not included).
  - G. **Qty. 48:** 3/8" x 2-3/8" Hex Bolt (not included).
  - H. **Qty. 72:** 3/8" Spring Washer (not included).
  - I. **Qty. 112:** 3/8" Flat Washer (not included).
  - J. **Qty. 72:** 3/8" Hex Nut (not included).
- (See Figure L, and Figure M, next page.)**
40. Cut the Stakes, Front End Rails, Back End Rails, and Side rails to the sizes indicated in the illustration and drill 3/8" diameter mounting holes where shown.  
**(See Figure L.)**
41. To determine where to drill 3/8" holes in the Stakes, place the eight Stakes in the eight Stake Clamps (25) of the Trailer and mark with a pencil.  
**(See Figure L, and Figure M.)**



42. Attach the Side Rails and Front End/Back End Rails to the Stakes, using 3/8" x 3-3/8" Cross Head Bolts, 3/8" Flat Washers, and 3/8" Nuts. **(See Figure M.)**
43. Secure the stakes to the Stake Clamps (25) of the Trailer, using 3/8" x 2-3/8" Hex Bolts, 3/8" Spring Washers, and 3/8" Nuts. **(See Figure M.)**
44. Attach the Connecting Plates to the Side Rails and Front End/Back End Rails, using 3/8" x 1-3/4" Cross Head Bolts and 3/8" Nuts. **(See Figure M.)**
45. **NOTE:** For quick folding purposes, you may not want to bolt down the Stakes permanently to the Stake Clamps (25) of the Trailer.



## OPERATING INSTRUCTIONS

**Note:** Be sure to read Bearing Packing Instructions on the last page of this manual.

1. Only use a 1-7/8" ball hitch (not included) on the towing vehicle. **(See Figure N, next page.)**

2. **NOTE:** To reduce friction between the hitch ball and Hitch Coupler (7), apply a layer of heavy weight grease over the hitch ball. **(See Figure N.)**
3. Temporarily remove the “R” Pin (S) and Safety Pin (29). Then, pull up on the Trigger and lift up on the Handle. **(See Figure N.)**
4. With assistance, place the Coupler (7) 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 no play between the hitch ball and Coupler.

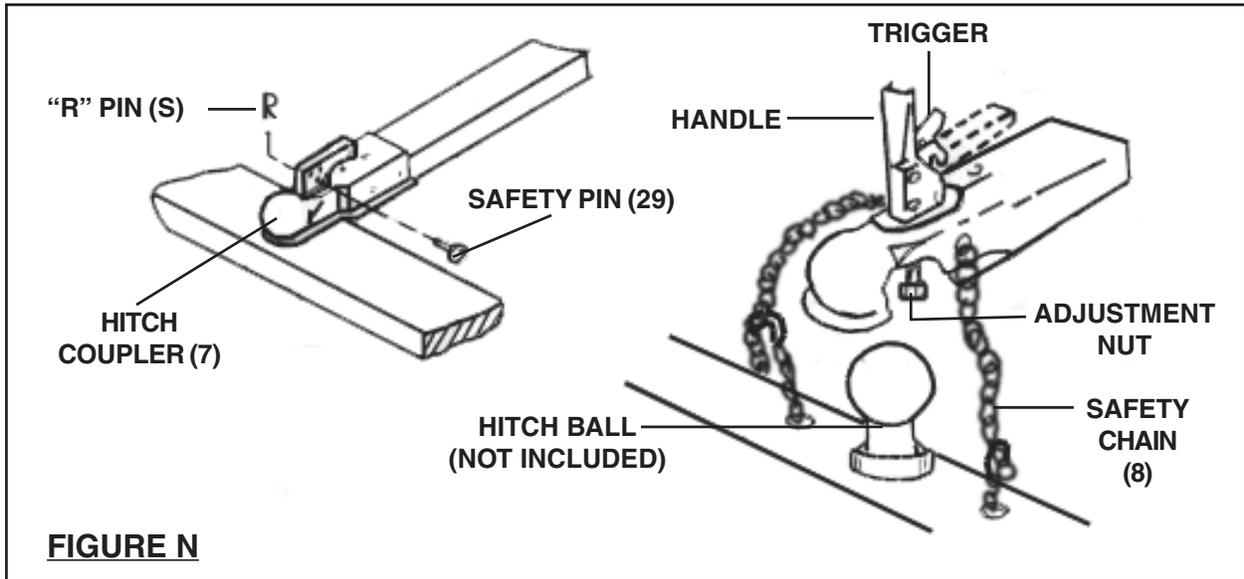
**CAUTION**

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.

**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 N.)**

5. Make sure to attach each side of the Safety Chain (8) equally to the towing vehicle’s rear bumper or frame. **(See Figure N.)**
6. Connect the Tail Light Wiring Assembly to the towing vehicle’s 12 Volt DC system. **NOTE: Make sure to consult the operator’s manual of the towing vehicle for proper connection instructions.**



**FIGURE N**

7. When towing the Trailer over long distances stop and check the tightness of all connections, Side Running Lights (24), and Tail Lights (28L, 28R) *at least* every 100 miles.
8. Carry emergency flares, and fire extinguisher, if required for operation in your state. It is recommended to carry extra bulbs and fuses if towing the Trailer at night over long distances.

## INSPECTION, MAINTENANCE, AND CLEANING

**Note: Be sure to read Bearing Packing Instructions on the last page of this manual.**

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 (8), 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 for wear and proper inflation (60 PSI).
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.-Lbs.
4. **EVERY 2,000 TO 3,000 MILES OF USE**, lubricate the Hub Assemblies with a heavy weight bearing grease. 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 LIST

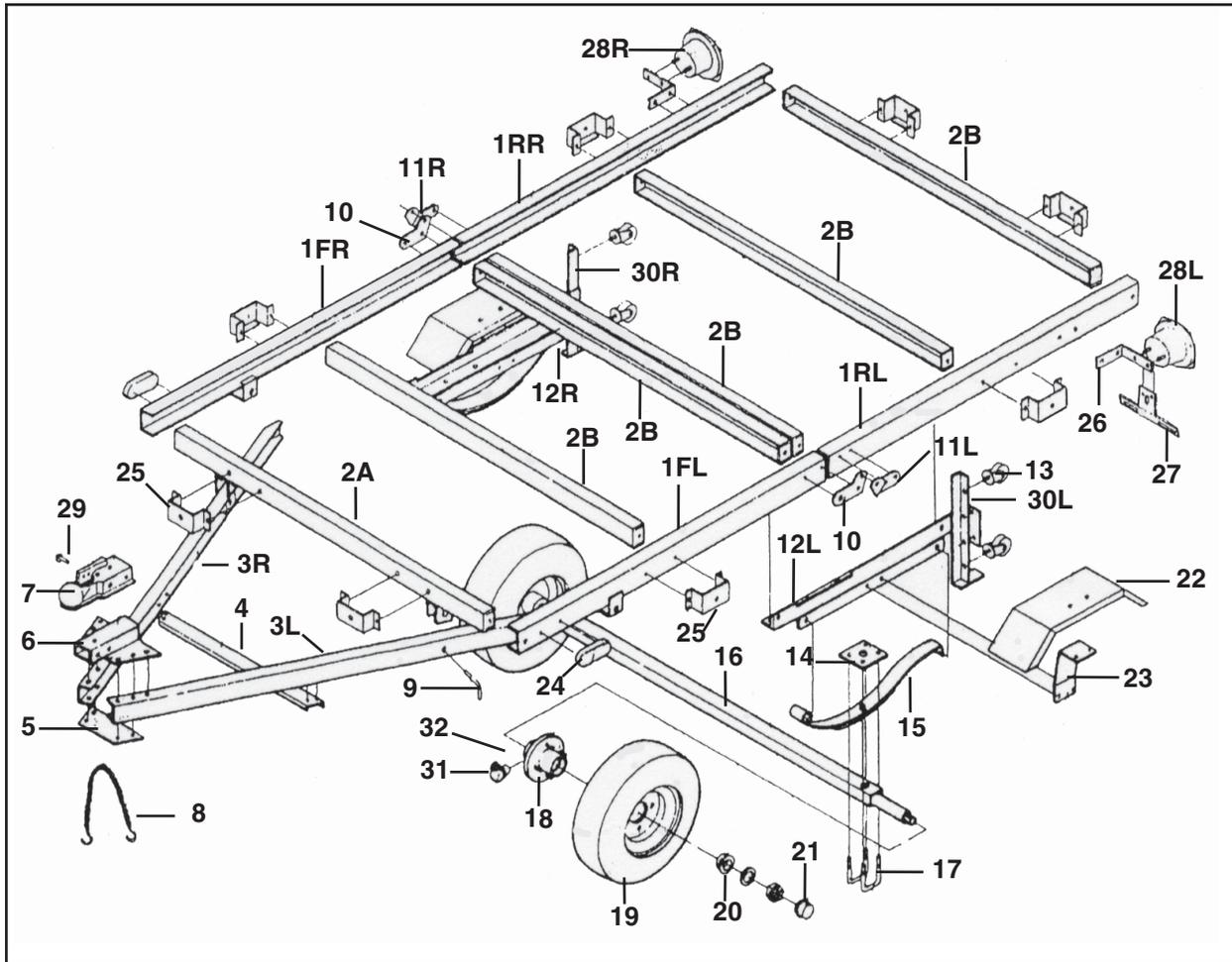
Part	Description	Qty.	Part	Description	Qty.
1FL	Front Left Side Rail	1	26	Tail Light Bracket	2
1FR	Front Right Side Rail	1	27	License Plate Bracket	1
1RL	Rear Left Side Rail	1	28L	Left Tail Light	1
1RR	Rear Right Side Rail	1	28R	Right Tail Light	1
2A	Cross Member	1	29	Safety Pin	1
2B	Cross Member	5	30L	Caster Base (Left)	1
3L	Left Connecting Rail	1	30R	Caster Base (Right)	1
3R	Right Connecting Rail	1	31	Grease Fitting	2
4	Spare Tire Bar	1	32	Seal	2
5	"T" Plate	1	A	3/8" x 3/4" Bolt	50
6	Coupler Base	1	B	3/8" x 1" Bolt	24
7	Hitch Coupler	1	C	3/8" x 1-1/2" Bolt	1
8	Safety Chain	1	D	3/8" x 1" Carriage Bolt	4
9	"L" Latch	2	E	9/16" x 3" Bolt	2
10	Rotation Plate (Flat)	2	F	9/16" x 3-1/4" Bolt	4
11L	Left Rotation Plate	1	G	3/8" Nylon Nut	91
11R	Right Rotation Plate	1	H	3/8" Hex Nut	5
12L	Spring Hanger	1	I	9/16" Hex Nut	6
12R	Spring Hanger	1	J	Lug Nut	8
13	Caster	4	K	Castle Nut	2
14	Spring Plate	2	L	3/8" Spring Washer	18
15	Spring	2	M	3/8" Flat Washer	11
16	Axle	1	N	3/4" Flat Washer	2
17	U-Bolt	4	O	5/32" Cotter Pin	2
18	Hub	2	P	1/8" Cotter Pin	4
19	Tire Assembly	2	Q	3 mm R Pin	2
20	Bearing	2	R	4 mm Self Tapping Screw	4
21	Dust Cap	2	S	2 mm R Pin	1
22	Fender	2	U	1/4" Self Tapping Screw	1
23	Fender Seat	2	V	3/8" x 2" Bolt/Latch	1
24	Side Running Light	2	W	3/8" x 3-1/2" Bolt	2
25	Stake Clamp	8			

### 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. NEITHER 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 REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

REV 08/05

## ASSEMBLY DIAGRAM

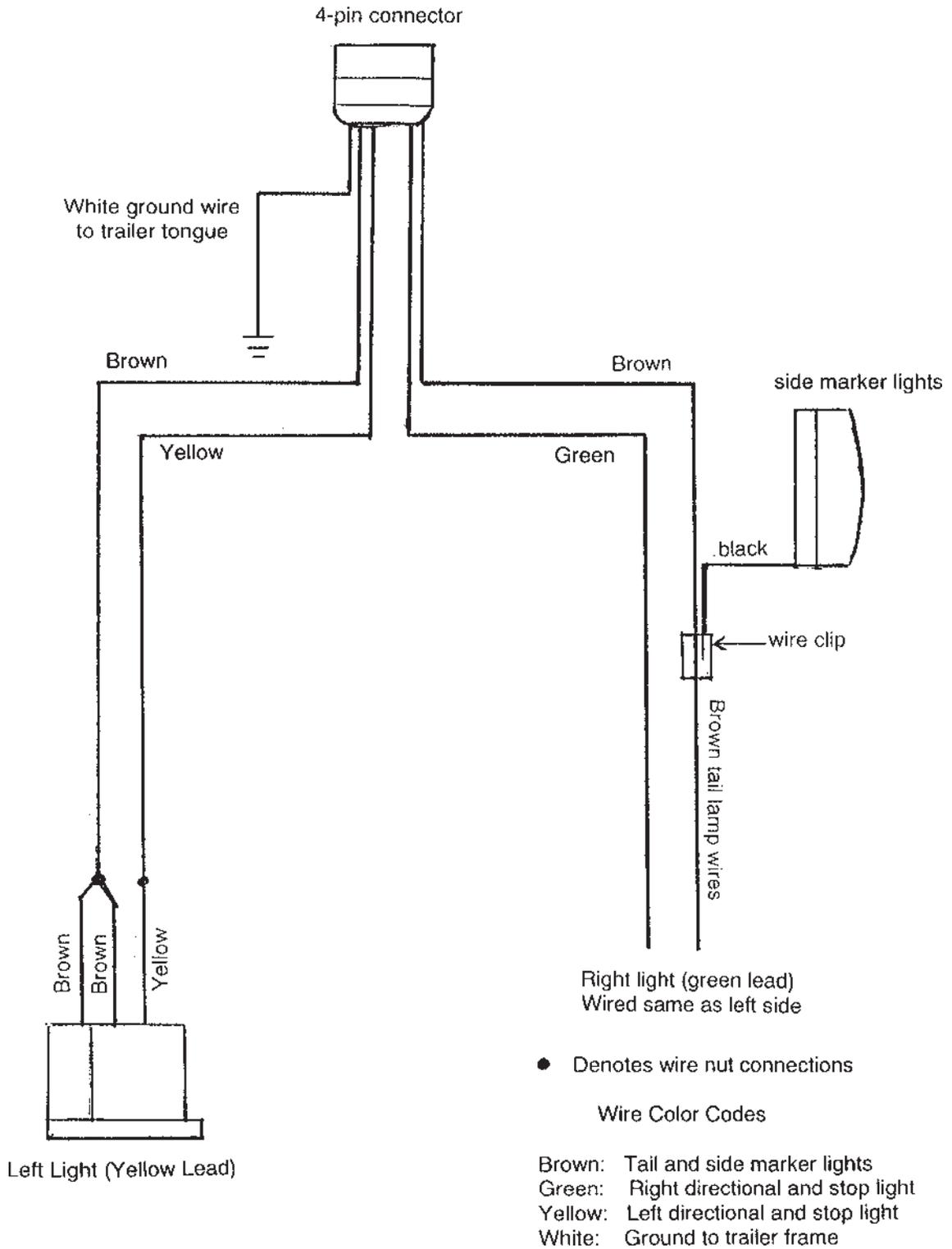


**NOTE:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

### Reporting Safety Defects:

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Traffic Safety Administration (NHTSA) in addition to notifying Changzhou Nanxiashu Tool Company. If NHTSA receives similar complaints, it may open an investigation. And if it finds that a safety defect exist in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Changzhou Nanxiashu Tool Company. To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 or 202-366-0123 or write to NHTSA, U. S. Department, 400 7th Street SW NSA-11, Washington, DC 20590. You can also obtain other information about motor vehicle safety from the Hotline. Note: Check with your local department of Motor Vehicles for registration procedures. Some DMV's require the Certificate of Origin to be notarized, others do not.

# WIRING DIAGRAM



NOTE: Some trailer tail lights will have two leads instead of three. They connect to the harness leads the same way; brown to brown, color to color.

# Bearing Packing Instructions

---

## Important

---

**Read and adhere to the following instructions; failure to read and obey all of the following instructions COMPLETELY will void the warranty and can result in damage to the trailer, property damage, or SERIOUS PERSONAL INJURY.**

---

**Whenever a hub is disassembled (if a hub on a new unit requires assembly or a hub is disassembled for maintenance), the following procedure MUST be followed.**

1. Using a suitable solvent, thoroughly clean the bearings and the rest of the parts in the Hub assembly of all grease, dirt, metal shavings, or any other foreign object. **The parts must be cleaned even if they are new or *appear* clean.**
2. Allow all pieces to dry completely.
3. Make sure that your hands are thoroughly clean and the bearing packer (not included) is also thoroughly clean.
4. Place fresh, clean bearing grease in the packer.
5. With the grease-filled bearing packer in one hand and the bearing 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.
6. Finish assembling the hub/wheel assembly as explained in this manual, being careful not to get any dirt or debris on any part of the assembly.