



# **INSTRUCTION MANUAL**

## **For**

# **SJ8512 / SJ8531 TRAILERS**



### **Specifications:**

**Item Number: SJ8512 / SJ8531**

**Maximum Load Capacity: 1185 LBS**

**Tires: 4.8-12 (B) Tubeless**

**Wheel: 4 Bolt Demountable**

**Coupler Capacity: Class 1, 2000 LBS, Max Gross Load, Fit for 1-7/8" Ball**

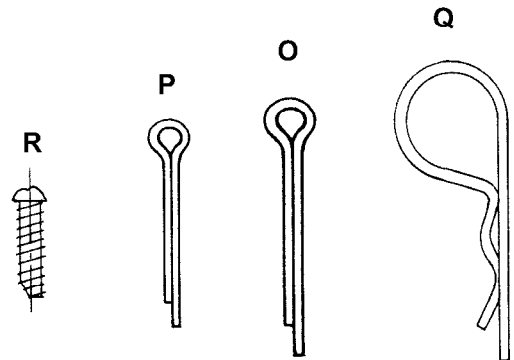
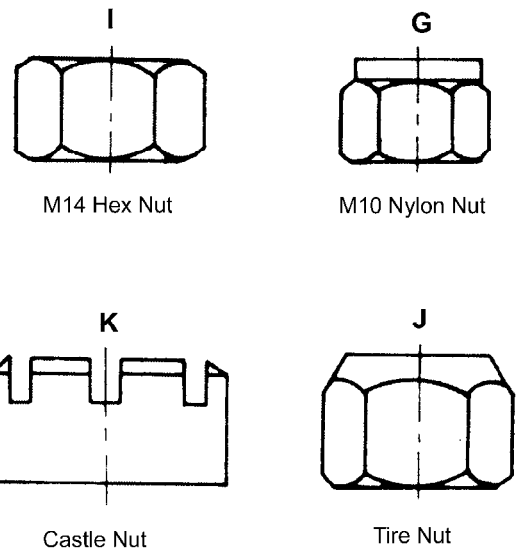
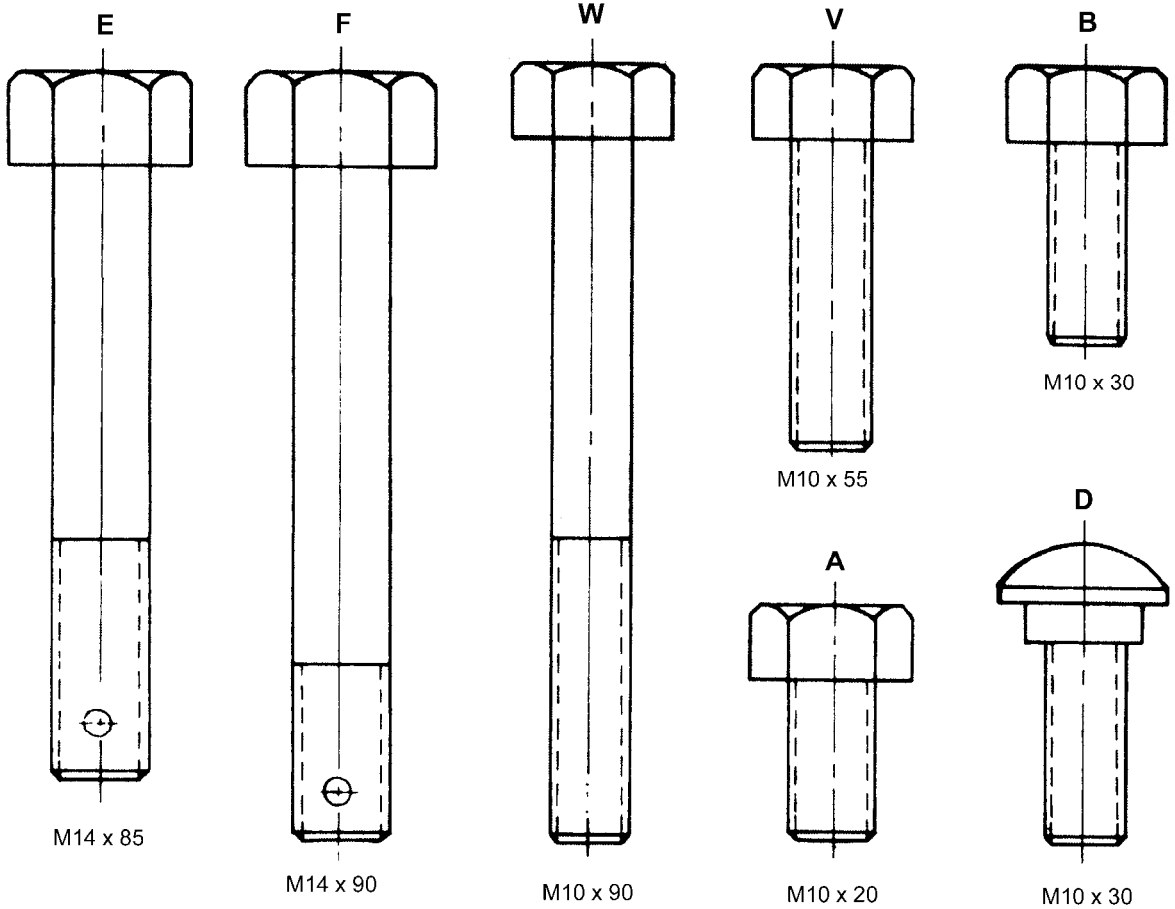
**GAWR: 1450 LBS with 4.80-12 (B) Tires at 60 PSI Cold**

**GVWR: 1450 LBS**

**Made In China**

## SJ8512 / SJ8531 TRAILER PARTS LIST

PARTS			HARDWARE		
NO.	QTY	DESCRIPTION	NO.	QTY	DESCRIPTION
1FL	1	Front Left Side Rail	31	2	Grease Fitting
1FR	1	Front Right Side Rail	A	62	M10 x 20 Bolt
1RL	1	Rear Left Side Rail	B	12	M10 x 30 Bolt
1RR	1	Rear right side Rail	D	4	M10 x 30 Bolt
2A	1	Cross Member	F	4	M14 x 90 Bolt
2B	5	Cross Member	G	90	M10 Nylon Nut
3L	1	Left Connecting Rail	I	4	M14 Hex Nut
3R	1	Right Connecting Rail	J	8	Tire Nut
4	1	Tow Bar	K	2	Castle Nut
4L	1	Tow Bar Left Bracket	N	2	Φ20 Flat Washer
4R	1	Tow Bar Right Bracket	O	4	4mm Cotter Pin
5	1	"T" Plate	P	4	3mm Cotter Pin
7	1	Coupler	Q	1	3mm R Pin
8	1	Safety Chain	R	5	4mm Self Tapping Screw
9	1	"L" Latch	S	1	2mm R Pin
10	2	Rotation Plate(Flat)	V	1	M10 x 55 Bolt
11L	1	Left Rotation Plate	W	3	M10 x 90 Bolt
11R	1	Right Rotation Plate	Z	1	Wing Nut
12L	1	Left Spring Hanger			
12R	1	Right Spring Hanger			
13	4	Caster			
14	2	Spring Plate			
15	2	Spring			
16	1	Axle			
17	4	U-Bolt			
18	2	Hub			
19	2	Tire / Rim Assembly			
20	2	Bearing			
21	2	Dust Cap			
22	2	Fender			
23	2	Fender Seat			
24	2	Side Running Light			
25	8	Stake Clamp			
26	2	Tail Light Bracket			
27	1	License Plate Bracket			
28L	1	Left Tail Light			
28R	1	Right Tail Light			
29	1	Safety Pin			
30L	1	Caster Base (Left)			
30R	1	Caster Base (Right)			



Read the instructions carefully and follow them step-by-step for easy assembly. You'll find a complete parts list on the previous page. Average assembly time is approximately 3 hrs. You'll need at least the following tools to assemble your Folding Trailer Kits.

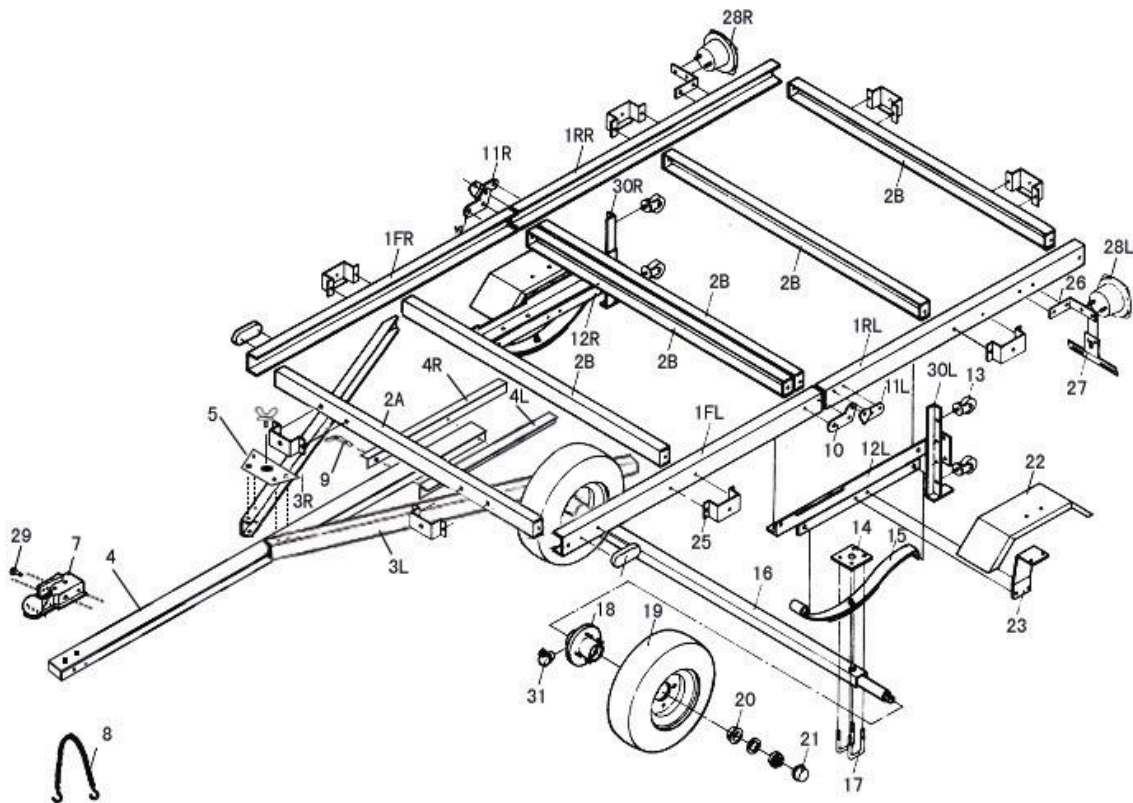
### TOOLS NEEDED:

9/16" box end wrench  
9/16" open end wrench  
3/4" socket or lug wrench  
Electric Drill or hand drill  
(for installing plywood base)

Pliers  
Channel lock pliers  
Screwdriver  
5/16" drill bit for installing  
side rails

### NOTE:

1. In assembling trailer parts, they are in order by standing at rear of trailer and looking toward tongue.
2. The nuts and bolts shouldn't be completely tightened until the entire trailer is assembled. Installing the 3/4" plywood base which you will have to supply, is the last step after tightening down all the nuts and bolts. Note: all nuts and bolts should be checked periodically for tightness, and also retighten the lug bolts on the wheels after the first 20 miles of use.



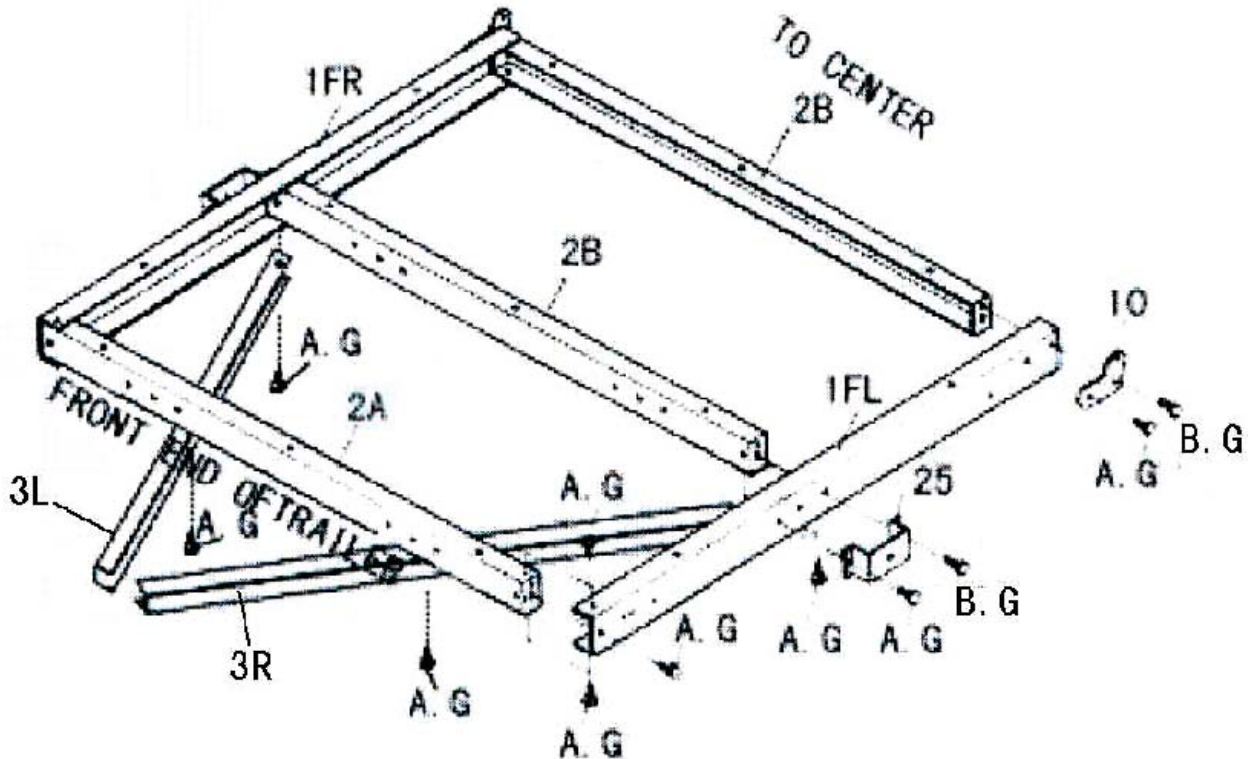
## STEP 1

PARTS NEEDED		
NO	QTY	DESCRIPTION
1FL	1	No.1FL labeled on part
1FR	1	No.1FR labeled on part
2A	1	No.2A labeled on part
2B	2	No.2B labeled on part
10	2	Rotation Plate
25	2	Stake Clamp
A	14	M10x20 Bolt
B	4	M10x30 Bolt
G	18	M10 Nylon Nut
3L	1	Tow Bar Left Bracket
3R	1	Tow Bar Right Bracket

1. Lay out front side rails (1FL, 1FR), cross member (2A, 2B), connecting rail (3L, 3R), as shown.
2. Assemble (1FL, 1FR, 2A, 2B, 3L, 3R), stake clamps (25), rotation plates (10) by M10x20 bolts, nylon nuts (A.G.), and M10x30 bolts, M10 nylon nuts (B.G.).

### NOTICE:

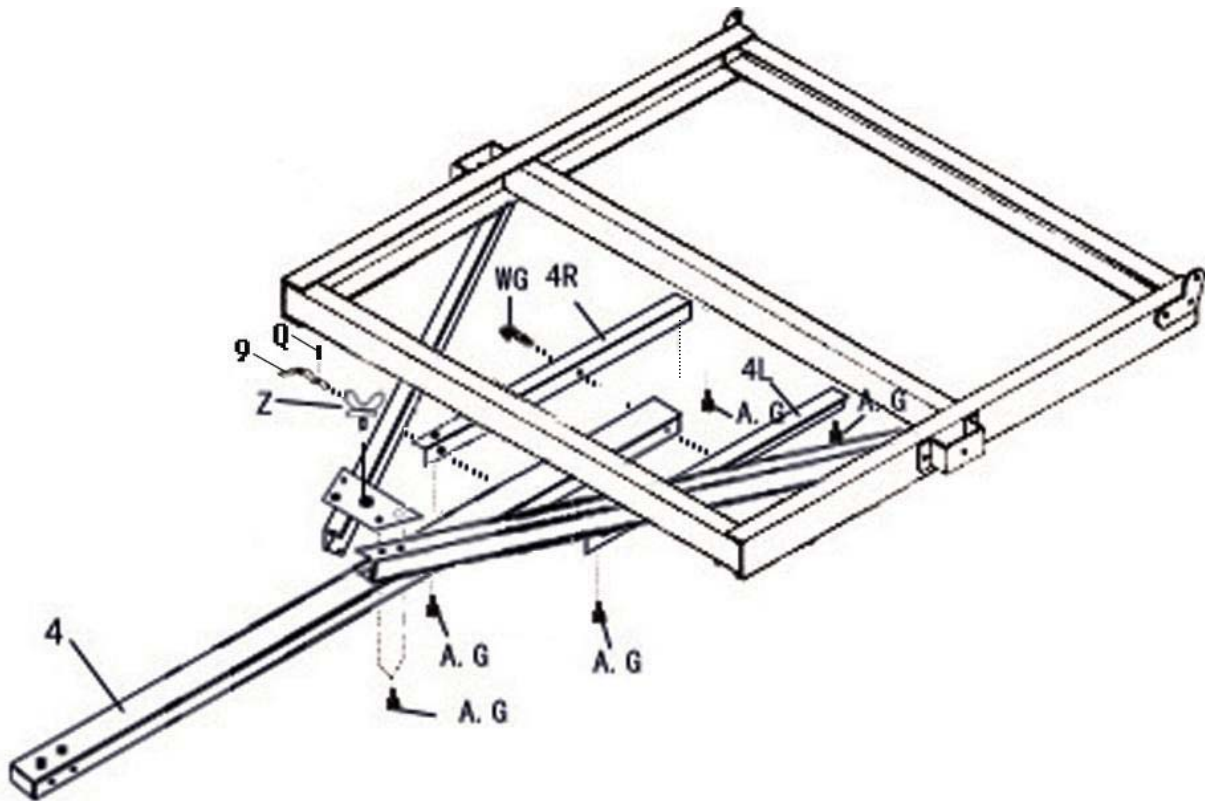
The center of front portion cross member must fit in the rear holes of side rail (1FL, 1FR). Be sure to use bolt/nut sets (A.G.) and also (B.G.). Make sure to follow the picture on where to use each length of bolts.



## STEP 2

PARTS NEEDED		
NO	QTY	DESCRIPTION
4	1	Tow Bar
4L	1	Tow Bar Left Bracket
4R	1	Tow Bar Right Bracket
5	1	"T" Plate
9	1	"L" Latch
A	8	M10x20 Bolt
G	9	M10 Nylon Nut
Q	1	3mm R Pin
W	1	M10X90 Bolt
Z	1	Wing Nut

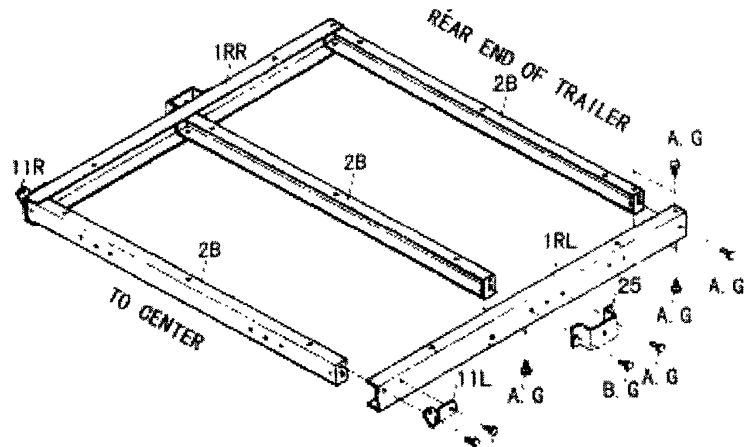
- 1 Attach the tow bar bracket (4L, 4R) to the cross member (2A, 2B) by a M10X20 bolt, and a nylon nut (A, G).
- 2 Attach tow bar (4) to tow bar bracket (4L, 4R) using a M10X90 bolt, and a nylon nut.
- 3 Put L Latch and R Pin through the tongue. (Q, 9)
- 4 Attach "T" plate(5) to connecting rail(3L,3R) by M10X20 bolts, nylon (A, G).Then pass tow bar (4) under "T" plate (5), tighten it by wing nut (Z).



### STEP 3

PARTS NEEDED		
NO	QTY	DESCRIPTION
1RL	1	No.1RL labeled on part
1RR	1	No.1RR labeled on part
2B	3	No. 2B labeled on part
11L	1	Left rotation plate
11R	1	Right rotation plate
25	2	Stake clamp
A	12	M10x20 Bolt
B	4	M10x30 Bolt
G	16	M10 Nylon Nut

- 1 Lay out the rear side rails (1RL, 1RR), and cross member (2B) as shown.
- 2 Assemble (1RL, 1RR, 2B), stake clamps (25), rotation plates (11) by using bolts M10x20 (A), M10x30 (B) and nylon nuts (G).



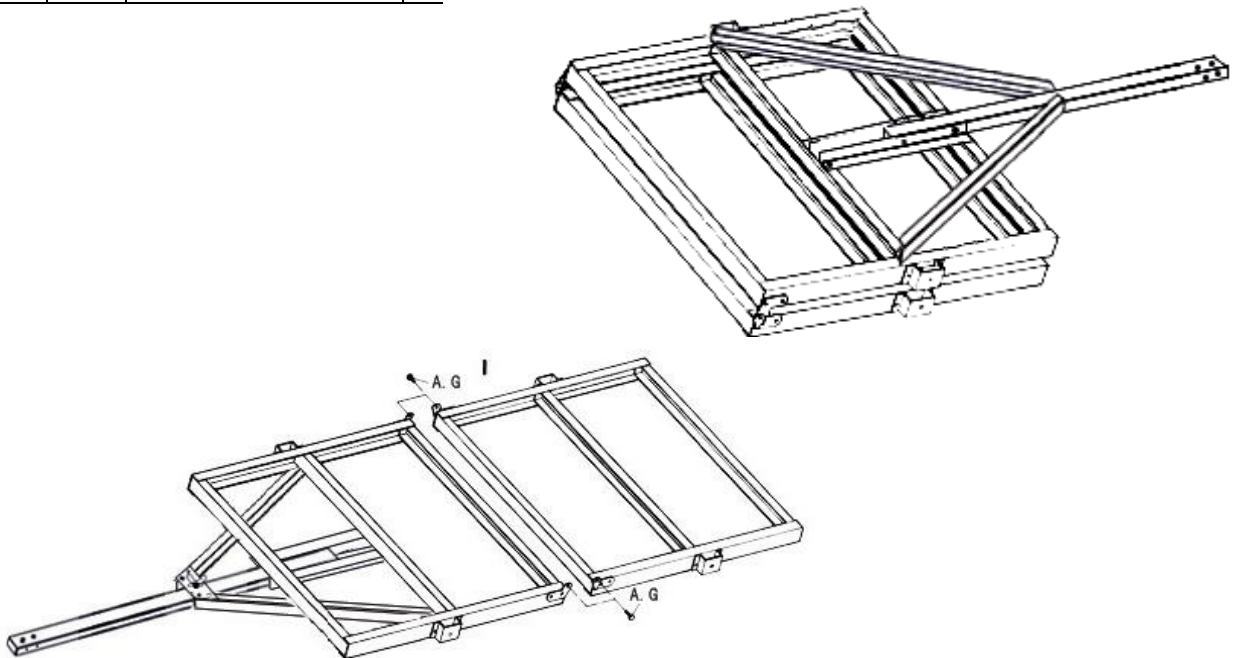
**NOTICE:** The center of rear portion cross member must fits in the rear holes of side rail (1RL, 1RR) and make sure to use bolt/nut sets (A.G.) and (B.G.) carefully, following the picture.

### STEP 4

PARTS NEEDED		
NO	QTY	DESCRIPTION
A	2	M10x20 Bolt
G	2	M10x30 Bolt

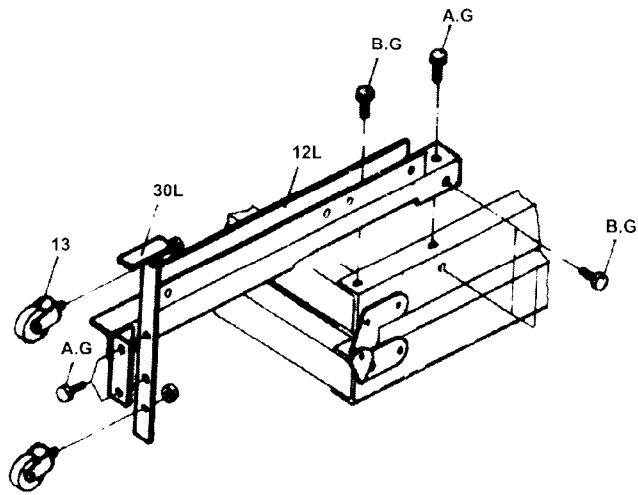
- 1 Assemble front portion and rear portion using M10x20 bolt and nylon nut as diagram is showing. Do not tight the nuts too tightly for easy folding.
- 2 Fold trailer as shown in illustration II.

II



## STEP 5

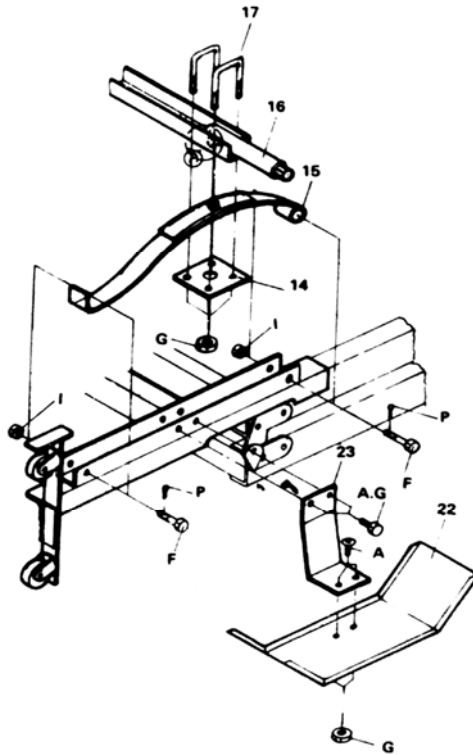
PARTS NEEDED		
NO	QTY	DESCRIPTION
12L	1	No.12L labeled on part
12R	1	No.12R labeled on part
13	4	Caster set
30L	1	Left caster base
30R	1	Right caster base
A	6	M10x20 Bolt
B	4	M10x30 Bolt
G	10	M10 Nylon Nut



1. Assemble (12L, 12R) to front side rail (1FL, 1FR) by using bolts/nuts (A.G. & B.G.) as figure shown.
2. Tighten part (30L, 30R) to part (12L, 12R) by using M10x20 bolt and M10 nut (A.G.).

## STEP 6

PARTS NEEDED		
NO	QTY	DESCRIPTION
14	2	Spring Plate
15	2	Spring
16	1	Axle
17	4	U Bolt
22	2	Fender
23	2	Fender Seat
A	8	M10x20 Bolt
F	4	M14x90 Bolt
G	16	M10 Nylon Nut
I	4	M14 Hex Nut
P	4	3mm Cotter Pin

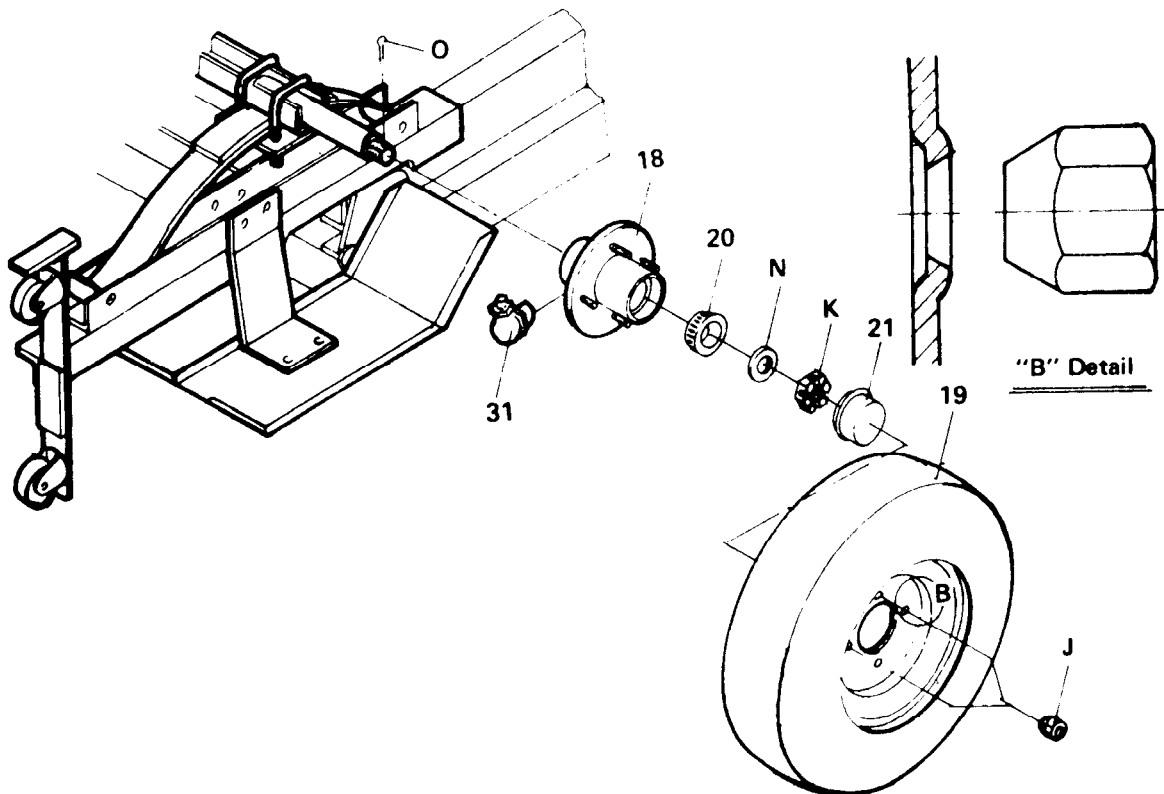


1. Assemble fender seat (23) to caster base (12L, 12R) by using M10x20 bolts and nylon nuts (A.G.), then attach fender (22) to fender seat (23) by using M10x20 bolts and nylon nuts (A.G.)
2. Tighten leaf spring (15) to the caster base (12L, 12R) by using M14x90 bolt (F) and M14 hex nut (I). Put cotter pin (P) through the holes in end of the bolt (F) and split it.
3. Place axle (16) on top of the leaf spring (15). Put spring plates (14) under spring using "U" bolt (17) pass through axle (16), spring (15) and spring plates (14) then lock with M10 nylon nuts (G).

## STEP 7

PARTS NEEDED		
NO	QTY	DESCRIPTION
18	2	Hub
19	2	Tire
20	4	Bearing
21	2	Dust Cap
N	2	Flat Washer
J	8	Tire Nut
K	2	Castle Nut
O	4	4mm Cotter Pin
31	2	Grease Fitting

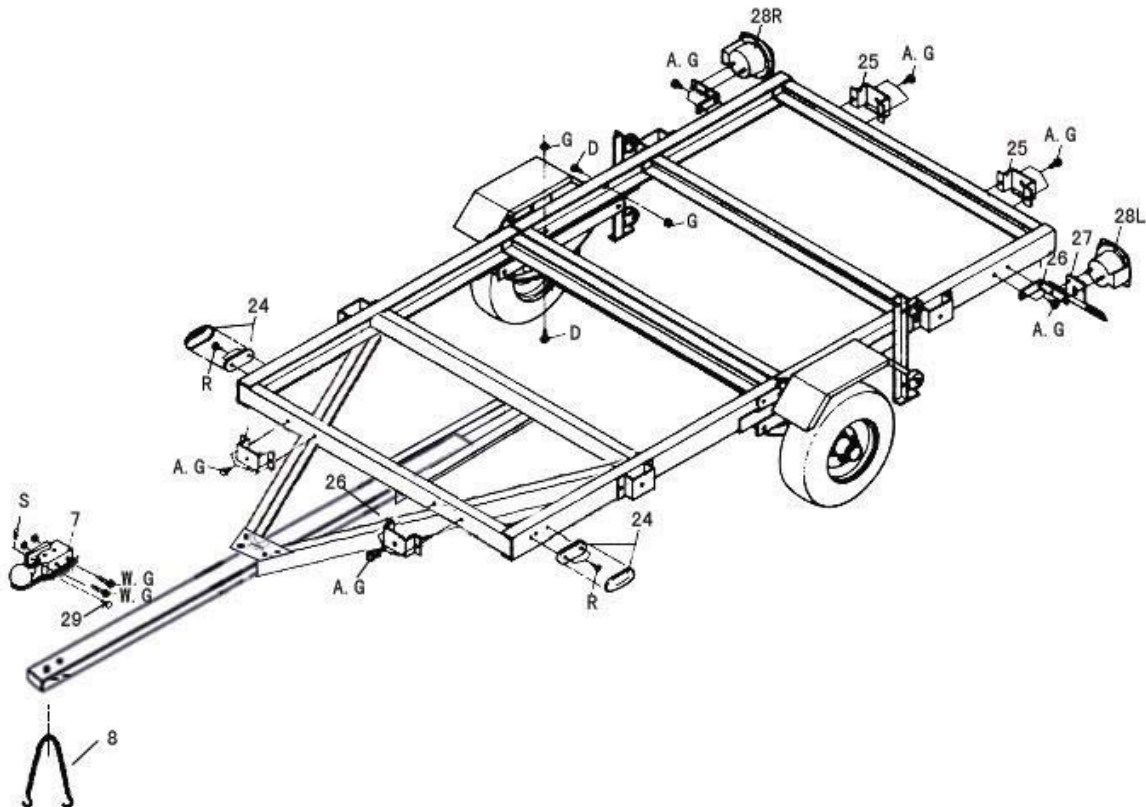
1. Fix grease fitting (31) on hub (18).
2. Carefully slide hubs (18) over spindles at each end of axle and push on outer bearings (20) and flat washer (N), then castle nuts (K), tighten them snug.
3. Push a 4mm cotter pin (O) through the hole in end of the spindles then spread cotter pin, **fill the dust cap (21) with automotive grease then press it onto hub.**
4. Put tire/wheel assembly (19) on hub set (18), then lock with four lug nuts (J) tighten with socket or lug wrench to **90FT-LBS.**



## STEP 8

PARTS NEEDED		
NO	QTY	DESCRIPTION
7	1	Coupler
8	2	Safety Chain
24	2	Side Running Light
25	4	Stake Clamp
26	2	Tail Light Bracket
27	1	License Plate
28L	1	Left Tail Light
28R	1	Right Tail Light
29	1	Safety Pin
A	12	M10x20 Bolt
D	4	M10x30 Bolt
G	18	M10 Nylon Nut
R	4	Self Tapping Screw
S	1	2mm R Pin
W	2	M10x90 Bolt

1. Extend trailer bed to full length by lifting upper section 180° towards rear of trailer.
2. Bolt coupler (7) to tow bar (4) by using M10x90 bolt (W), then lock coupler trigger by using safety pin (29), put "R" pin (S) through the hole of safety pin (29) to fix it.
3. Attach safety chain (8) to coupler with bolt M10x90 (W) by putting the bolt through the center link of the chain, lock with M10 nylon nut (G).
4. Attach each 2 sets of stake clamps (25) to front and rear cross members by using two sets of bolt and nut (A.G.) on each side.
5. Attach side running light to the rail with two self tapping screws on each side. Make sure the wire goes through the hole in the trailer rail.
6. Assemble tail light bracket (26) to rear end of side rail (1RL,1RR) by using M10x20 bolt and M10 nylon nut (A.G.) then install license plate (27) and left tail light (28L) [with clear lens for light] with nuts then install right tail light (28R).
7. Tighten rear portion frame to caster base (12L, 12R) by using two sets of M10x30 wagon bolt (D), M10 nylon nut (G) on each side (see diagram).

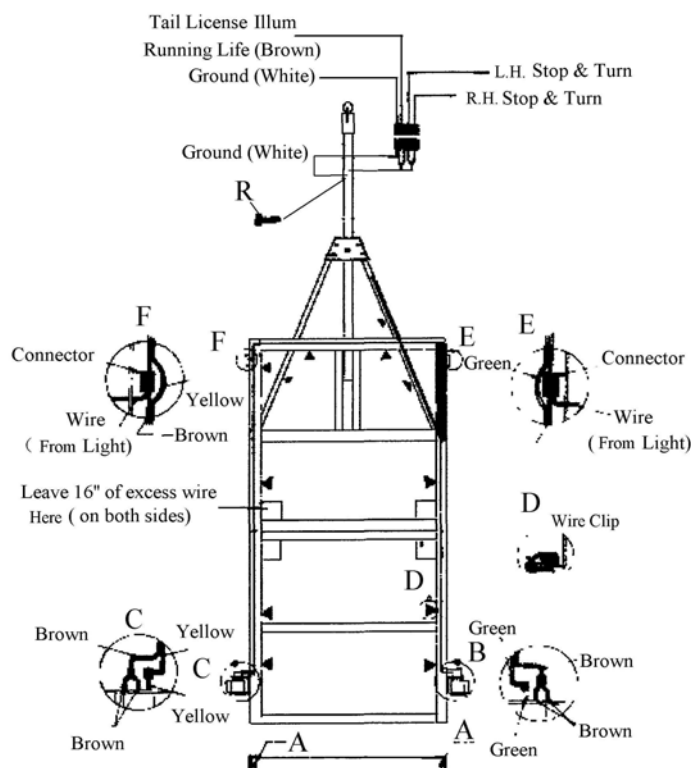


## STEP 9

### TRAILER LIGHT KIT WIRING DIAGRAM AND INSTRUCTION

Your Vehicle must have a 4-Pin hitch connector, in order for the Trailer lights to function. If it does not have the 4 Pin trailer connections, you must install that prior to running this trailer. We are not responsible for unsafe operation of this trailer due to insufficient wiring.

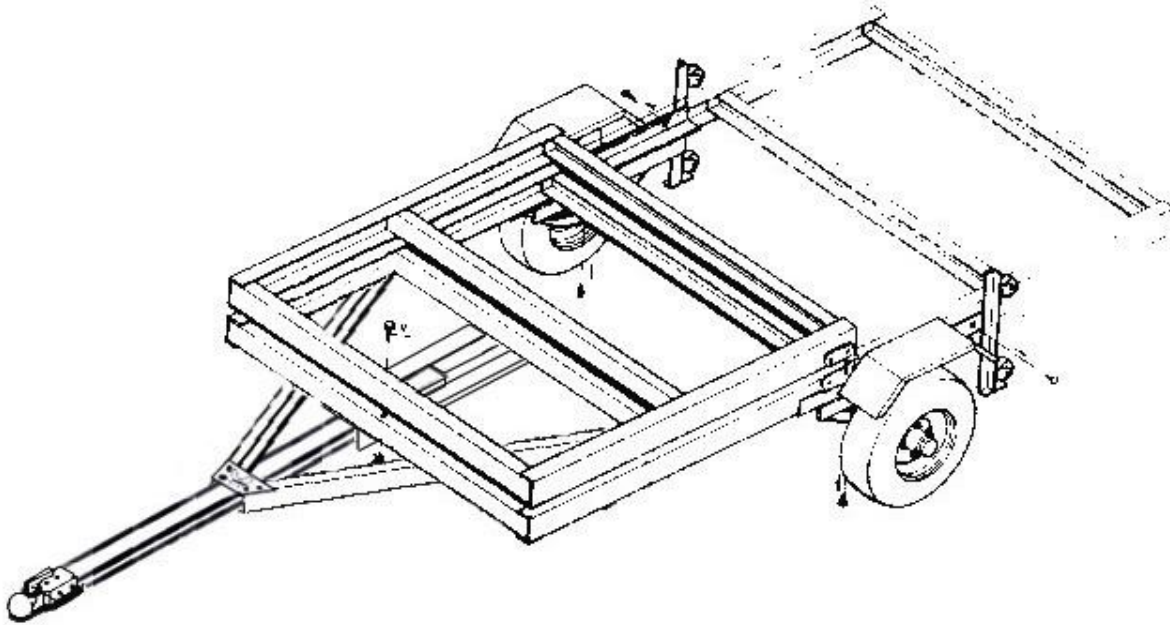
Below you will find the diagram for the trailer. Please follow this closely, and make sure the correct colors are on the correct sides. Incorrect coloring will result in incorrect operation.



1. Attach white ground wire at plug end of wiring harness to the small hole in tow bar with the self tapping screw.
2. Leave about 18" of wire beyond the coupler and lay out wire on the inside of right tongue to the side rail joint (as shown), then from this joint, split the yellow/brown wire and green/brown wire. Make yellow/brown go through cross member to left running light; make green/brown wire go to the right running light.
3. Connect the wire lead from the running lights to the brown wire on each side with the wire connector. Use pliers to squeeze the connector closed.
4. Push on wire clips to hold wires down the side rails of the trailer.
5. Cut yellow/brown and green/brown wires to appropriate lengths and strip ends of wires 3/4".
6. Make taillight connections as per color code:

<u>LEFT SIDE</u>	<u>RIGHT SIDE</u>
Yellow – Yellow wire	Green – Green wire
Brown – Brown wire	Brown – Brown wire
7. Or insert wire in color coded holes in rear of tail lights.

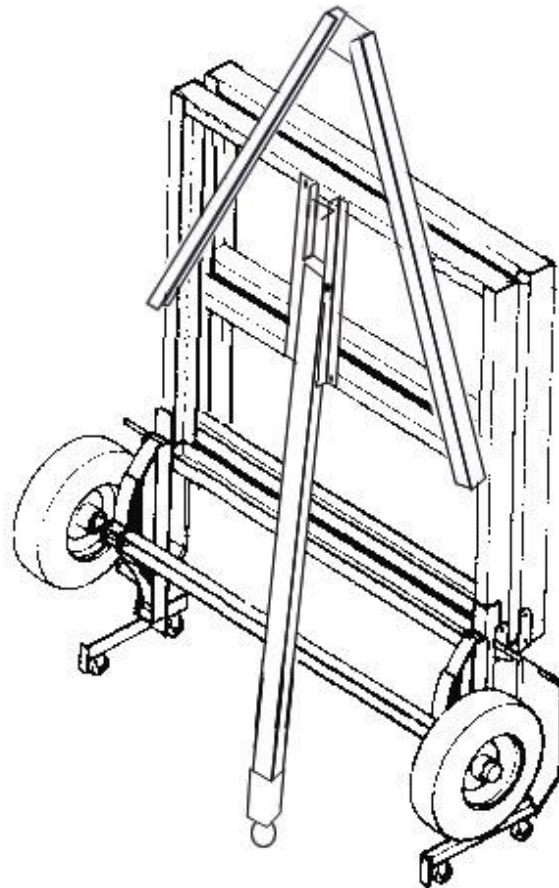
## STEP 10



1. Unscrew carriage bolt from rear section side rails. Fold rear section over front section and secure with carriage bolts.
2. Tilt trailer onto casters base, remove 1 bolt from cross member and fold tongue down

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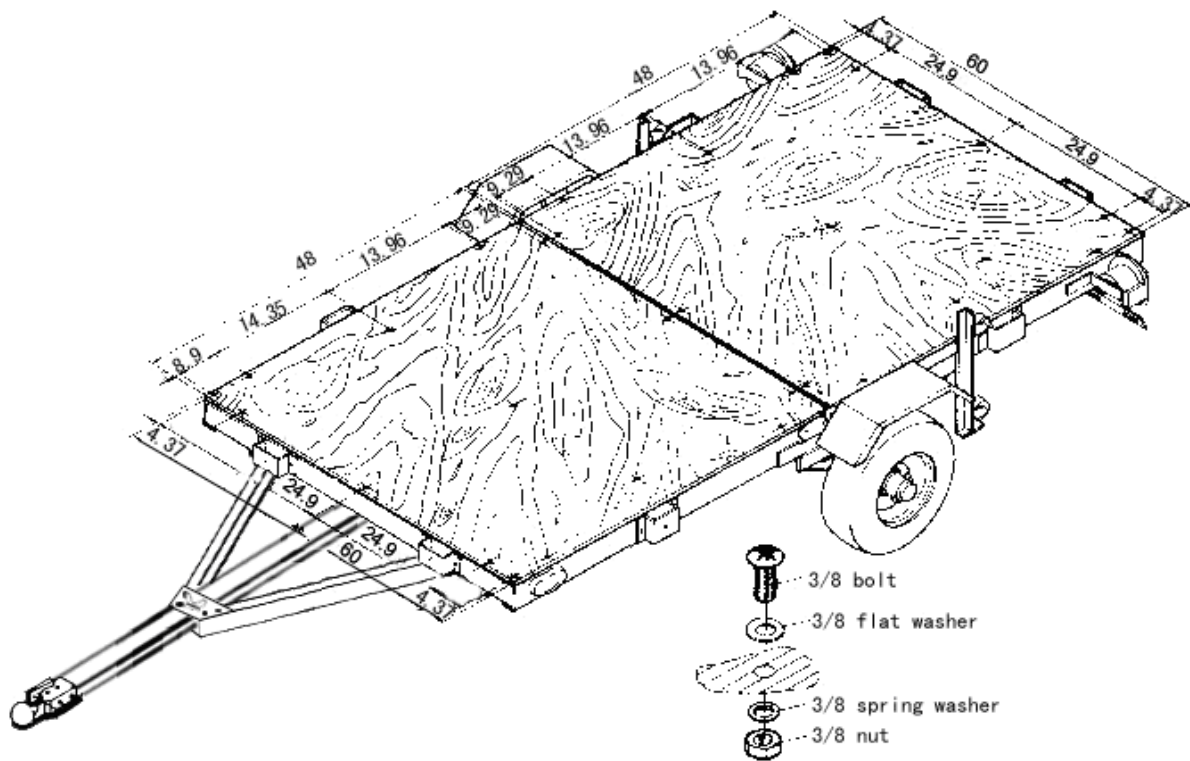
As trailer is standing on casters, please do not roll for an extended length to prevent the casters from breaking.



## STEP 11 – Optional

QTY	PARTS NEEDED(NOT INCLUDED)
2	3/4"X48"X60" Plywood (Not included)
24-30	3/8" Cross Head Bolt (Not included)
24-30	3/8" Flat Washer (Not included)
24-30	3/8" Spring Washer (Not included)
24-30	3/8" Hex Nut (Not included)

1. As shown in diagram drill all holes with a high speed drill bit.
2. Use 3/8" flat washer, spring washer and 3/8" hex nut to mount floor tight to frame.

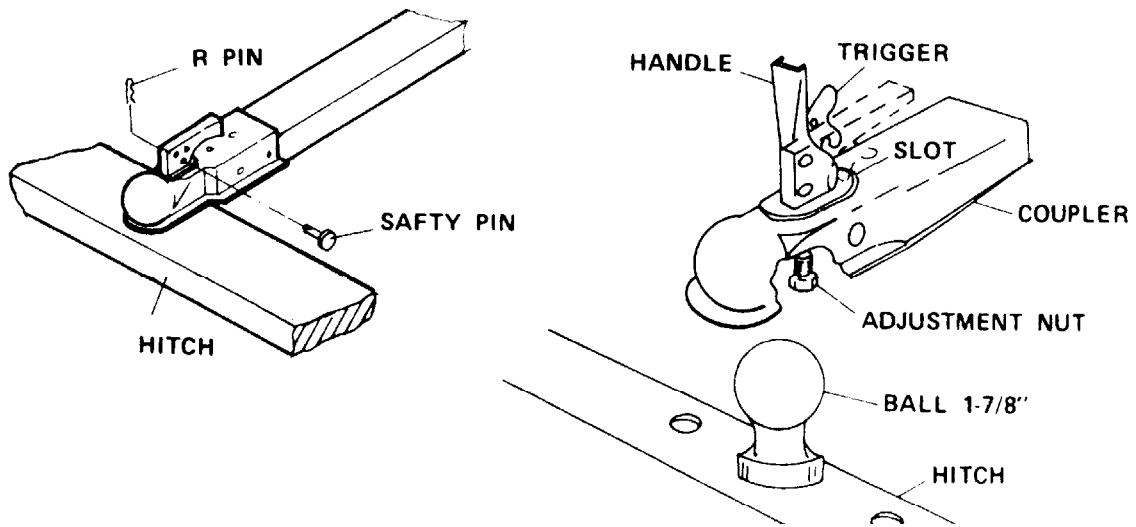


## SPECIAL NOTICE FOR COUPLER

Only use a 1-7/8" ball hitch on the towing vehicle. Pull trigger and lift handle. Place coupler over trailer hitch ball and push down on handle until trigger locks in place.

Pull up and down on the coupler to make sure the ball is fitting snugly in the coupler. There should NOT be any play between the ball and coupler. If there is play, tighten the adjustment nut until no play is present. If the nut is too tight, the handle will not lock.

NOTE: To reduce friction between the ball hitch and coupler, apply a layer of multipurpose lithium grease over ball hitch. Wipe off excess grease when not in use to avoid staining clothes.



## SAFE USE AND OPERATION RULES

### 1. TOWING VEHICLE -

- Make sure vehicle is capable of towing the load
- Excess speed is the second most important cause of car-trailer accidents. Recommended maximum speed for all passenger cars towing trailers is 55 M.P.H.

### 2. HITCH, BALL, COUPLER -

- Check that the hitch on the towing vehicle is capable of towing the trailer. The towing capability of the hitch is normally stamped on hitch draw bar.
- Make sure the coupler and the ball are mating sizes and are rated equal to or greater than the load.
- Never attach anything other than the proper size coupler to the ball for towing.

### 3. SAFETY CHAINS -

- Be sure to use safety chains.
- Check that safety chains are attached to towing vehicle with the same length for each side.
- Do not allow chains to drag on ground.

### 4. LOADING -

- Never overload trailer. Maximum load is 1185 pounds.
- Load trailer evenly from side to side with 60% of the load forward to the axle. It is important that the tongue be pressing down on the hitch, but not exceeding a downward force of 90 pounds.
- Reduce weight in car trunk and rear seat areas by amount of tongue weight of your trailer.
- It is against the law to carry passengers in the back of any trailer.

### 5. LIGHTING -

- Check lighting before each use and every 100 miles to be sure stop tail and turn signals are working properly. (REPLACE ANY BROKEN LENSES, REFLECTORS OR BULBS.)
- Check wires for good connections and possible fraying or wearing of insulation.
- Bulbs supplied with this trailer are for 12 volt system.
- Bulbs used in tail light are: Number – 1157 – Stop and Tail.
- Bulb for clearance is: Number – 1895.

### 6. TIRES -

- Check tire for wear and proper inflation before each use and every 100 miles.
- Tire pressure should be kept at 60 PSI.
- Check and tighten lug nuts. Torque to 85-90 FT-LBS.
- RETORQUE AFTER FIRST 50 MILES.

## 7. OPERATION -

- Know how to properly control your towing vehicle-trailer combination on the highway under all condition. Remember the loaded weight of the trailer will increase your braking and stopping distances appreciably.
- When towing a trailer over long distances stop and check tightness of all connections lights and running gear every 100 miles.
- Carry emergency flares, and fire extinguisher if required for operation in your state.
- It is desirable to carry extra bulbs and fuses if you are towing the trailer at night over any great distances.

## 8. MAINTENANCE –

- Check and maintain the trailer, coupler, ball and hitch before each use and every 200 miles.
- Inspect hitch and ball for, damage in every day use.
- Ball or hitch can be damaged in parking, hitting curbs, dragging when crossing ditches or railroad tracks.
- Check safety chain for wear, and do not allow safety chain to drag on ground.
- To prevent bearing damage, disassemble and repack wheel bearing with a good grade of wheel bearing grease every 2000 – 3000 miles or yearly.
- If you do not know how to repack wheel bearing, take your trailer to a garage for advice.

## IMPORTANT

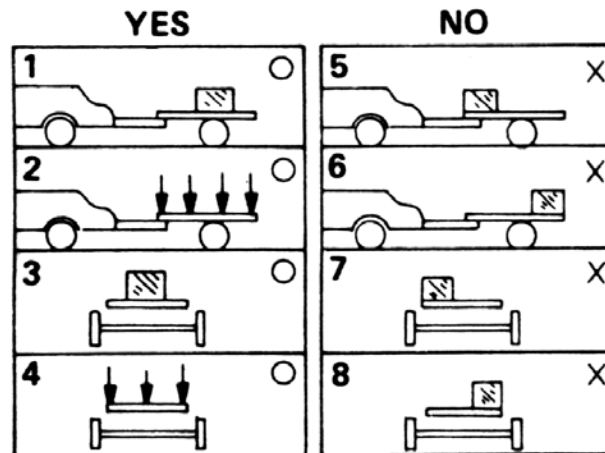
The purpose of following notices are to give you tips on safe use and operation of your utility trailer:

1. Please read the instructions carefully and follow them step-by-step for easy assembly. And please keep the instruction in your hand no less than 1 year.
2. Please double check the assembling step-by-step, be sure each is followed.
3. Please according to our trailer Licensing Notice to apply license.
4. Before using, please inspect your trailer.
5. Do not remove the sticker notice from the tow bar.

Notice:

- ◇ Re-fill grease on bearing after every 3,000 miles of use.
- ◇ Keep tire pressure at 60 P.S.I. cold.
- ◇ Please insure you comply with the following before using your trailer.
  - 1) Tighten U-bolt.
  - 2) Tighten lug nut.
  - 3) Tighten trigger lock on coupler.
  - 4) Hook up safety chain.
  - 5) Trailer load should not exceed its 1185 lbs capacity and should be properly secured.
  - 6) Trailer load size should not exceed trailer's bed board size.

### CORRECT WAY TO LOAD YOUR TRAILER



## **TRAILER LICENSING NOTICE**

The M.C.O. (Manufacturer's Certificate of Origin) supplied with your trailer should be filled out and signed by the dealer transferring ownership to you.

When licensing your trailer, you will need the signed M.C.O. a purchase invoice, cash register receipt, or bill of sale showing the purchase and retail sales tax or use tax collection by the retailer. Take these to your local Department of Motor Vehicle and upon payment of the appropriate State fees, you will be issued a title, registration and license plate (if required). Some states will require inspection of the assembled and finished trailer kit before issuing a title registration/license.

If you require additional information or guidance on licensing or titling, please consult your State Department of Motor Vehicles.

## **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 FACTORY.

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 FACTORY.

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 7<sup>th</sup> street SW NSA-11, Washington DC 20590.

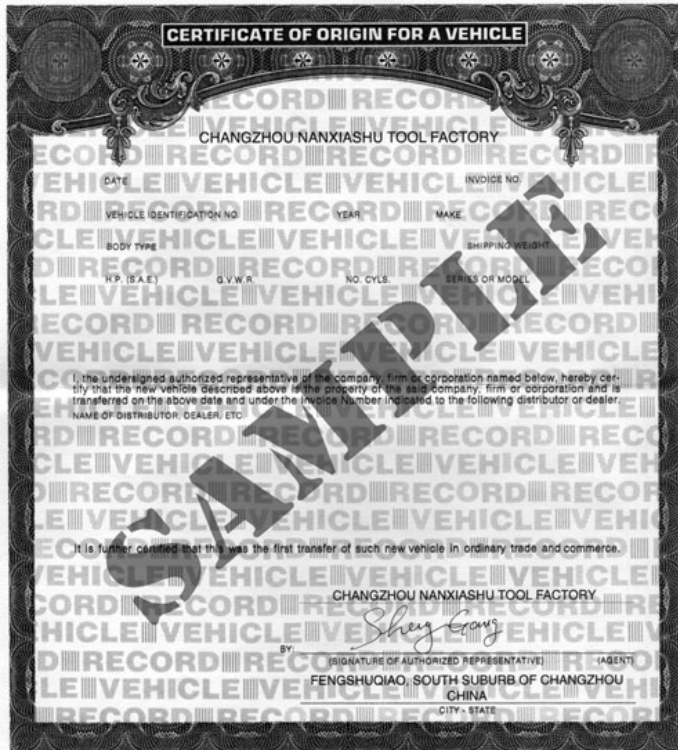
You can also obtain other information about motor vehicle safety from the Hotline.

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.

# IMPORTANT REGISTRATION INFORMATION

Most states require you to provide the Manufacturer's Certificate of Origin (MCO) in order to register your trailer. Most states also require a notarized signature on the MCO in order to formally authorize the transfer of ownership.

The MCO is included with your trailer. It looks like this:



***Do not lose this important document!***

When you locate the MCO, mail it to:

RedTrailers.com, Inc.  
P.O. Box 377  
Quakertown, PA 18951

Please include the full name and address of the person to whom the trailer will be registered. We will sign it, have it notarized, and return it to you as quickly as possible.

If the MCO is lost, there will be a \$50.00 fee to issue a replacement.