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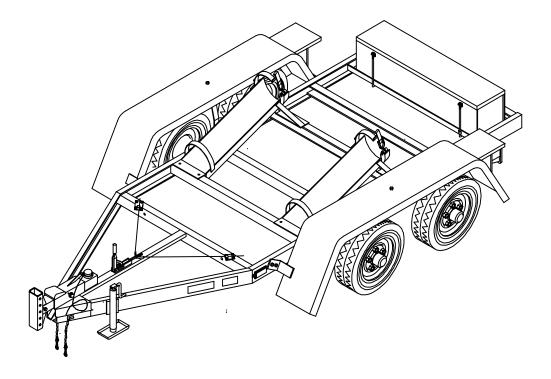
October 1994

#### Description

Four-Wheel, Tandem Axle, Heavy-Duty Trailer With Adjustable Hitch For Large Engine-Driven Welding Generators

2750 lb (1247 kg) Net Payload Capacity

# 3000-4AH





Visit our website at

www.MillerWelds.com

**OWNER'S MANUAL** 

# From Miller to You

Thank you and congratulations on choosing Miller. Now you can get the job done and get it done right. We know you don't have time to do it any other way.

That's why when Niels Miller first started building arc welders in 1929, he made sure his products offered long-lasting value and superior quality. Like you, his customers couldn't afford anything less. Miller products had to be more than the best they could be. They had to be the best you could buy.



Today, the people that build and sell Miller products continue the tradition. They're just as committed to providing equipment and service that meets the high standards of quality and value established in 1929.

This Owner's Manual is designed to help you get the most out of your Miller products. Please take time to read the Safety precautions. They will help you protect yourself against potential hazards on the worksite. We've



Miller is the first welding equipment manufacturer in the U.S.A. to be registered to the ISO 9001 Quality System Standard.

made installation and operation quick and easy. With Miller you can count on years of reliable service with proper maintenance. And if for some reason the unit needs repair, there's a Troubleshooting section that will help you figure out what the problem is. The parts list will then help you to decide which exact part you may need to fix the problem. Warranty and service information for your particular model are also provided.

Miller Electric manufactures a full line of welders and welding related equipment. For information on other quality Miller products, contact your local Miller distributor to receive the latest full line catalog or individual catalog sheets. To locate your nearest distributor or service agency call 1-800-4-A-Miller, or visit us at www.MillerWelds.com on the web.



Working as hard as you do – every power source from Miller is backed by the most hassle-free warranty in the business.

Miller offers a Technical Manual which provides more detailed service and parts information for your unit. To obtain a Technical Manual, contact your local distributor. Your distributor can also supply you with Welding Process Manuals such as SMAW, GTAW, GMAW, and GMAW-P.



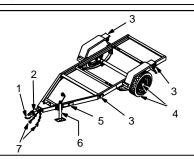
### TRAILER TOWING SAFETY PRECAUTIONS

### WARNING

#### TRAILER TOWING can be hazardous.

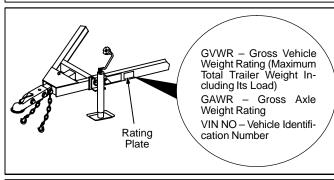
In trailer towing, as in most driving situations, exposure to certain hazards occurs. Trailer towing is safe when precautions are taken. The following safety information is only a summary of the more complete information found in the Safety Standards listed at the end of these precautions. Read and follow all Safety Standards. In addition, the end user must check and comply with all federal, state, and local laws before use.

### HAVE ALL INSTALLATION, OPERATION, MAINTENANCE, AND REPAIR WORK PERFORMED ONLY BY QUALIFIED PEOPLE.



- 1 Coupler
- Hitch is on towing vehicle.
- 2 Tongue
- 3 Lights
- 4 Wheels And Bearings
- 5 Rating Plate
- 6 Jack Stand
- 7 Safety Chains
- 1. Use a towing vehicle prepared and capable of handling the load.
- 2. Towing any trailer requires special awareness because of the changed driving situation.

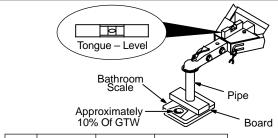
- 3. When towing, it takes longer to start, stop, and pass use training and practice to avoid accidents.
- 4. Turning and backing up present new problems plan ahead.
- Require each driver to be fully trained and experienced in trailer towing before going out on the road.
- 6. Holes are provided for mounting weld/power generator.
- 7. Be sure trailer is fully prepared and connected to towing vehicle.
- 8. Observe maximum speed of 45 mph (72 kph) when towing.
- 9. Do not modify or change the trailer in any way changes void the warranty. Read Owner's Manual.
- 10. Use only genuine factory parts as replacements.
- Adjust load on trailer so tongue weight is approximately 10% of the gross trailer weight and center load side-to-side to reduce fishtailing.
- 12. Tighten all parts, bolts, nuts, and mounting hardware.



### OVERLOADING can cause serious injury or equipment damage.

- 1. Do not overload the trailer.
- The Gross Vehicle Weight Rating (GVWR) is the maximum total trailer weight with the engine driven welding generator and all equipment, such as tools, cables, and shielding gas cylinder, installed.
- 3. The Gross Axle Weight Rating (GAWR) is the maximum load-bearing capacity of the axle(s).
- Weigh trailer adjust weight by removing accessory equipment if necessary – call local authorities for nearest scale location.
- 5. Use gross trailer weight to select a proper towing vehicle.

in personal injury or equipment damage.



#### Gross Vehicle Trailer Gross Trailer Weight GTW<sup>2</sup> Ib (kg) Maximum And Couple Class Weight Rating Tongue Weight<sup>3</sup> lb (kg) Up to 2000 (Up to 910) 1000 (455) 2000 (910) 100 (45) 200 (90) <sup>1</sup> Information From SAE J684 May 1987 2000 to 3500 (910 to 1590) 2000 (910) 3500 (1590) 200 (90) 350 (158) 2 <sup>2</sup> Gross Trailer Weight (Actual Loaded Weight) 3500 to 5000 (1590 to 2270) 3 10% Of GTW 3 3500 (1590) 350 (158) Recommended

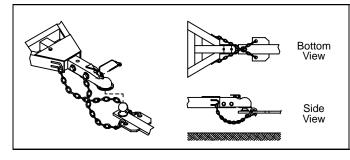
 Install generator according to Owner's Manual with engine end toward hitch end of trailer.

**UNCONTROLLED TILTING OF TRAILER can result** 

Distribute weight so that trailer tongue weight is approximately 10% of the gross trailer weight.

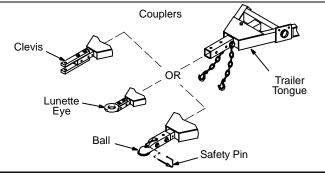
## INCORRECT TONGUE WEIGHT can cause fishtailing and loss of control of towing vehicle resulting in serious injury and equipment damage.

- Tongue weight is the amount of trailer weight that rests on the towing vehicle hitch – that is, the downward pressure on the coupler.
- 4. Remove or adjust trailer load to get correct tongue weight.
- 5. Do not let tongue weight exceed coupler and hitch rating.
- Use slower speeds when towing a trailer never above 45 mph (72 km/h) – to prevent fishtailing.



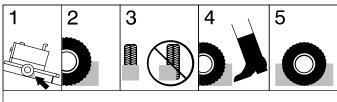
### SAFETY CHAINS CAN PREVENT RUNAWAY TRAILER in case hitch/coupler fails.

- 1. Always use safety chains when towing.
- 2. Cross safety chains under coupling to prevent tongue from dropping to ground.
- 3. Allow only enough slack for tight turns.
- 4. Do not let safety chains drag on ground.
- 5. Twist safety chains equally from hook ends to take up slack.
- Use safety chains rated equal to or greater than twice the maximum gross trailer weight rating.



### INCORRECT SIZE OR RATING OF HITCH can cause trailer to break loose from towing vehicle.

- Be sure towing vehicle hitch is correct type, size, and rating to match coupler.
- 2. Be sure the hitch is properly installed onto towing vehicle.
- 3. On optional ball couplers, always insert hitch safety pin before towing
- Make sure hitch and ball are properly sized and match each other.



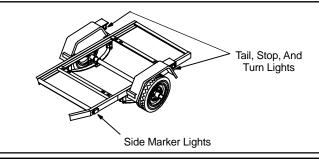
### WHEELS MUST BE CHOCKED when trailer is uncoupled from vehicle.

- 1. Chock in direction of grade.
- 2. Position chock snugly behind tire.
- 3. Place chock square to the tire.
- 4. Tap chock into place.
- 5. For added protection, chock both sides of tire.



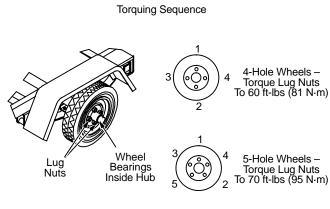
### UNEXPECTED TILTING OF TRAILER can cause injury and damage.

- 1. When trailer is uncoupled from towing vehicle, use jack on front and block rear to prevent tilting.
- 2. Use proper blocks that are large enough and able to support the necessary weight.
- 3. Always chock the wheels when uncoupled.



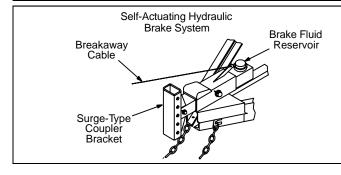
### INCORRECTLY WORKING LIGHTS can cause accidents.

- 1. State and Federal regulations require trailers used on highways to have tail, stop, turn, and side marker lights.
- 2. Lights are not required for trailers designed for off-road use only.
- 3. Check all lights and connectors for proper installation and operation before using the trailer.
- 4. Check condition of wiring harness leads, plugs, and connections regularly. Repair or replace damaged parts or wires.
- 5. Replace any broken lenses, reflectors, or bulbs.



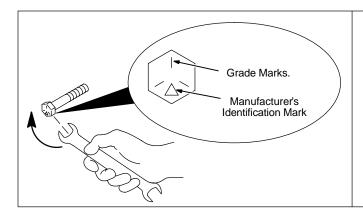
# INCORRECT TORQUE on lug nuts or INCORRECT TIRE PRESSURE or BEARING MAINTENANCE can cause loss of control resulting in serious injury and equipment damage.

- Recheck lug nut torque after first 50 miles (80 km) and once each year or every 12,000 miles (19,500 km) thereafter, whichever comes first.
- 2. When checking lug nuts, keep them clean, dry, and unlubricated.
- 3. Check and repack wheel bearings once each year or every 12,000 miles (19,500 km), whichever comes first.
- Maintain correct tire pressure according to sidewall data on tire underinflation is the most common cause of tire trouble.
- 5. Check tires for wear every six months.
- 6. Use only replacement tires of the same size, rating, and capacity.



## INOPERATIVE SURGE-TYPE BRAKES OR WRONG BREAKAWAY CABLE CONNECTION can cause accidents.

- 1. Check brake fluid level before use.
- Do not use sway control devices keep coupler free to telescope during braking.
- Always connect breakaway cable to towing vehicle be sure it has a direct free pull.
- 4. Do not wrap cable around safety chains, tongue, wiring, or any other parts.
- The breakaway cable automatically applies the trailer brakes if separation occurs.



### LOOSE OR INCORRECT HARDWARE AND FASTENERS can cause injury and damage.

- Periodically double-check all nuts and bolts for tightness and condition.
- If necessary, always replace any fastener with one of equal size, grade, and type.
- 3. Be sure the grade marks on replacement fastener match the original bolt. The manufacture's identification mark is not critical and does not matter for the replacement fastener.

#### PRE-TOWING CHECKLIST

Check gross trailer weight, tongue weight, and total weight distribution – do not overload this trailer.
Check that the correct hitch is properly installed on towing vehicle.
When coupling, check that coupler locking device (safety pin), safety chains, and breakaway cable (if applicable) are properly connected.
Check that tires are properly inflated and that wheel nuts are properly torqued.
If applicable, check that all lights are working properly.

#### PRINCIPAL SAFETY STANDARDS

*Trailer & Camper Safety*, Publication # DOT HS-802586, from U.S. Department of Transportation, National Highway Traffic Safety Administration, Washington, D.C. 20590

Safety and Health Standards, OSHA 49 CFR 200 to 999, from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

SAE Handbook. 1996. Volume 4. On-Highway Vehicles and Off-Highway Machinery, from Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001.

#### 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 Highway Traffic Safety Administration (NHTSA) in addition to notifying MILLER Electric Mfg. Co.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists 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 MILLER Electric Mfg. Co.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

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### **SECTION 1 – SAFETY INFORMATION**

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- Read all safety messages throughout this manual.
- Obey all safety messages to avoid injury.
- Learn the meaning of WARNING and CAUTION.

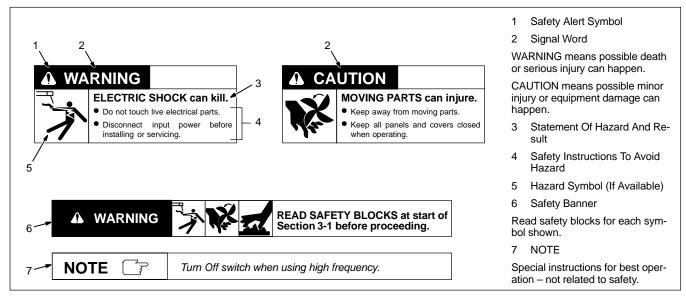


Figure 1-1. Safety Information

### **SECTION 2 – SPECIFICATIONS**

Table 2-1. Trailer

Specification	Description
Gross Axle Weight Rating (Each Axle)	2000 lb (900 kg)
Gross Vehicle Weight Rating	3500 lb (1587 kg)
Net Payload	2750 lb (1247 kg)
Track (Center To Center Of Tires)	63 in (1600 mm)
Road Clearance	11-1/2 in (292 mm)
Height Of Bed	20 in (508 mm)
Standard Tires	F78-14 Or P205/75 D14
Overall Dimensions	See Figure 2-1
Weight	725 lb (329 kg)
Options	Cylinder Rack, Tool Box, Ball And Lunette Eye Hitches

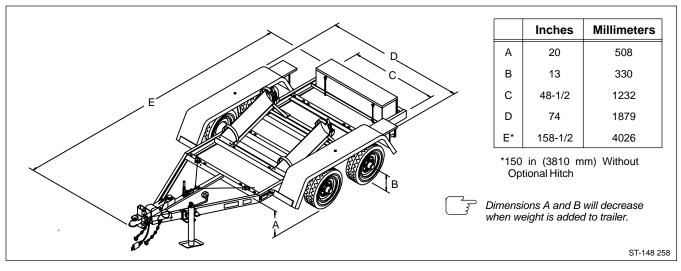


Figure 2-1. Overall Dimensions

### **SECTION 3 – INSTALLATION & OPERATION**

NOTE All directions are given as facing the towing vehicle. The word "front" means the hitch end of the trailer.

#### 3-1. Operating Parking Brake And Jack

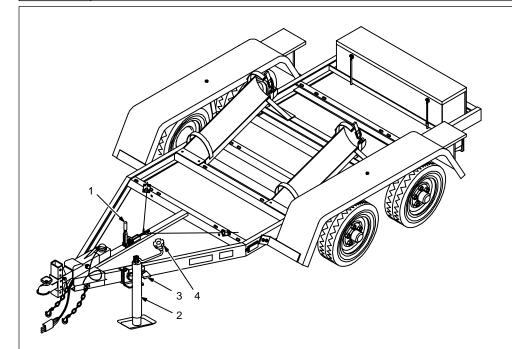
### WARNING



#### TILTING OF TRAILER can result in personal injury or equipment damage.

- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position.
- Use trailer jack to obtain desired height and to support tongue weight.

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#### 1 Parking Brake

Use brake to manually apply trailer brakes when trailer is parked.

To use brake, push handle forward until handle is nearly horizontal.

To release brake, pull handle back to vertical position.

See Section 3-7 for parking brake adjustment procedure.

#### 2 Jack

#### 3 Securing Pin

Pull pin and rotate jack to vertical position. Insert pin to lock jack in place.

#### 4 Handle

Turn handle to raise or lower trailer.

When jack is not needed, pull pin and rotate jack to horizontal position. Use pin to lock jack in place.

Ref. ST-148 258

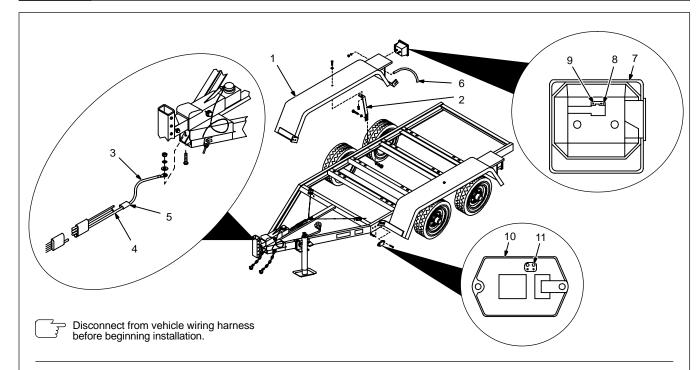
Figure 3-1. Operating Parking Brake And Jack

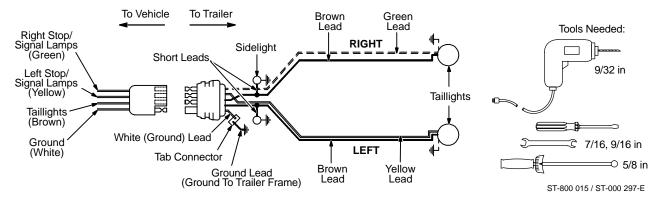
### WARNING

#### TILTING OF TRAILER can result in personal injury or equipment damage.

- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position (see Section 3-1).
- Use trailer jack to obtain desired height and to support tongue weight while installing fenders and lights.

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Support trailer with jack. Apply parking brake.

- 1 Fender
- 2 Support Bracket

Attach fenders and brackets to frame with 3/8-16 x 1-1/4 in hardware. Tighten hardware to 30 ft lb (40 N·m).

- 3 Ring Terminal Lead
- 4 Wiring Harness White Ground Lead
- 5 Tab Connector

Splice ring terminal lead to white lead with supplied connector (see Figure 3-3).

Secure ring terminal to side rail using 1/4-20

hardware. If hole is not present, drill a 9/32 in (7 mm) hole in side rail as shown.

Route brown and green leads through clamps on right inside of frame and out end of channel.

#### 6 Sleeving

Slip sleeving over leads. Route leads through back of right taillight bracket.

- 7 Taillight
- 8 Tail Hole
- 9 Stop Hole

Insert stripped end of brown lead into Tail hole in rear of right taillight. Insert green lead into

taillight Stop hole. Attach taillight to bracket with 1/4 in hardware.

#### 10 Sidelight

#### 11 Marker Brown Hole

Route stripped end of either supplied short lead through hole in right trailer frame channel. Insert lead into top Marker Brown hole.

Splice remaining end of short lead to brown lead from wiring harness.

Secure sidelight with 10 - 24 hardware.

Install left side taillight and sidelight using wiring harness brown and yellow leads.

Figure 3-2. Installing Fenders And Lights

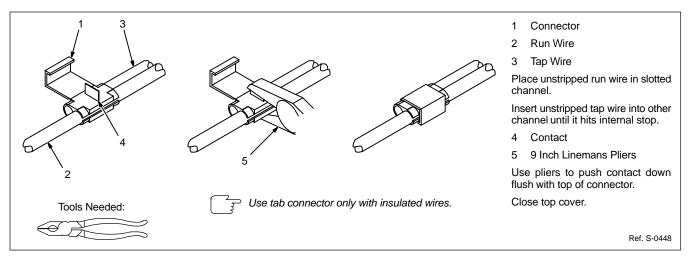


Figure 3-3. Installing Wiring Harness Connectors

#### 3-3. Installing Optional Tool Box

### **⚠** WARNING

TILTING OF TRAILER can result in personal injury or equipment damage.

- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position (see Section 3-1).
- Use trailer jack to obtain desired height and to support tongue weight while installing tool box.

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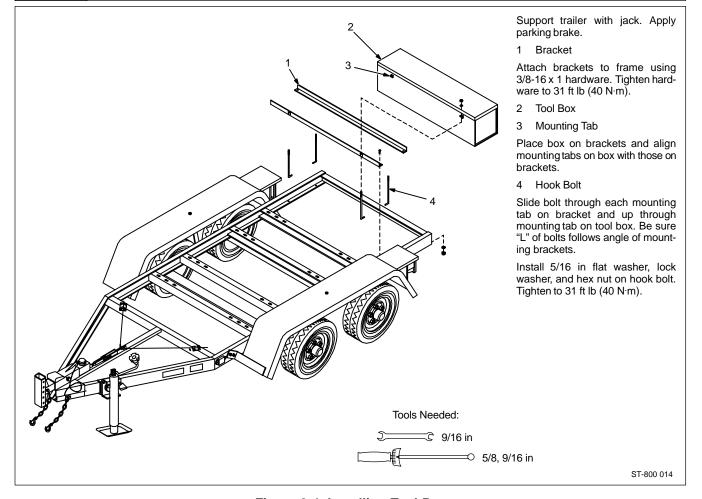


Figure 3-4. Installing Tool Box

#### 3-4. Installing Optional Cylinder Rack And Shielding Gas Cylinders

### **№** WARNING



#### CYLINDERS can explode if damaged.

- Keep cylinders away from welding and other electrical circuits.
- Never touch cylinder with welding electrode.
- Always secure cylinder to running gear, wall, or other stationary support.



### BUILDUP OF SHIELDING GAS can harm health or kill.

• Shut off shielding gas supply when not in use.



### TILTING OF TRAILER can result in personal injury or equipment damage.

- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position (see Section 3-1).
- Use trailer jack to obtain desired height and to support tongue weight while installing cylinder rack and cylinders.

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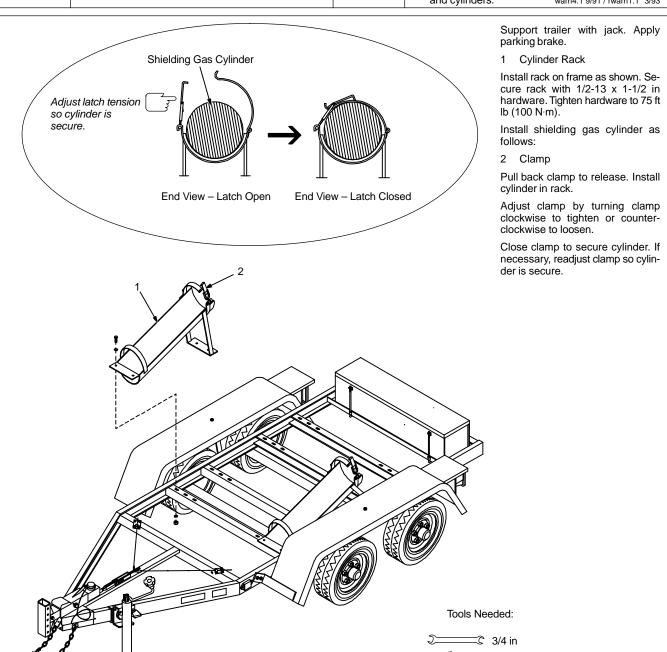


Figure 3-5. Installing Cylinder Rack And Shielding Gas Cylinders

ST-800 013-C

□ 13/16 in

#### 3-5. Installing Optional Trailer Hitch And Connecting To Towing Vehicle

### WARNING



#### TILTING OF TRAILER can result in personal injury or equipment damage.

- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position (see Section 3-1).
- Use trailer jack to obtain desired height and to support tongue weight while installing hitch.

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**NOTE** 



The self-actuating hydraulic brake system engages trailer brakes when pressure is applied to trailer hitch while stopping.

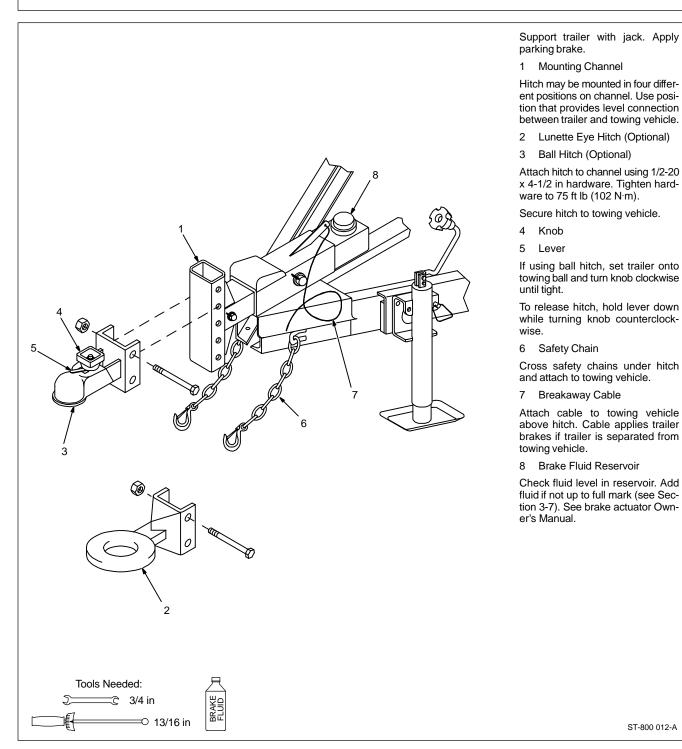


Figure 3-6. Installing Hitch And Connecting To Towing Vehicle

### WARNING



#### **FALLING EQUIPMENT** can serious personal injury and equipment damage.

- Use lifting eye to lift unit only, NOT running gear, gas cylinders, trailer, or any other heavy options, accessories, or devices.
- Use equipment of adequate capacity to lift the unit.



#### TILTING OF TRAILER can result in personal injury or equipment damage.

- Install welding generator onto trailer with engine end toward hitch end of trailer.
- Distribute weight so trailer tongue weight is approximately 10% of the gross trailer weight.
- Use adequate blocks or lifting device to support hitch end while pivoting trailer jack into position (see Section 3-1).
- Use trailer jack to obtain desired height and to support tongue weight while installing welding

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Model	Generator Mounting Dimensions		
Model	Α	В	
All Big 20, Big 40, Big 50 Models	9-1/2 in (241 mm)	46-1/4 in (1175 mm)	
Big 30A, Big Blue 251D	4-1/2 in (114 mm)	41-1/4 in (1048 mm)	
Big Blue 400D	10-1/2 in (267 mm)	47-1/4 in (1200 mm)	
Miller Air Pak, Big Blue 600D	13-3/4 in (349 mm)	50-1/2 in (1283 mm)	
Trailblazer 44 & 55G* (Continental)	15 in (381 mm)	51-3/4 in (1315 mm)	
All Other Trailblazer Models*	17 in (432 mm)	53-3/4 in (1365 mm)	

<sup>\*</sup>All Trailblazer models use the same base rails. Be sure to install the D and G models using the correct mounting holes.

Use correct size SAE grade 5 locking-type hardware to mount equipment on trailer.

Support trailer with jack. Apply parking brake.

- Crossmember
- 2 Mounting Holes
- Welding Generator

Align proper holes in generator base with holes in crossmembers (see table).

Install generators not listed in table so unit is centered over crossmembers.

If mounting accessories or generator not listed in table, adjust generator position so tongue weight is 10 - 15% of gross trailer weight.

Secure generator with supplied 5/8 in grade 5 hardware. Tighten mounting hardware to 150 ft lb (200

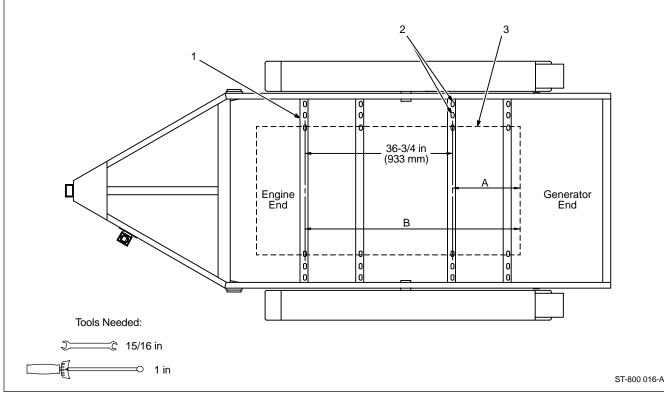


Figure 3-7. Installing Welding Generator

### **₩** WARNING



#### FALLING EQUIPMENT can cause serious personal injury and equipment damage.

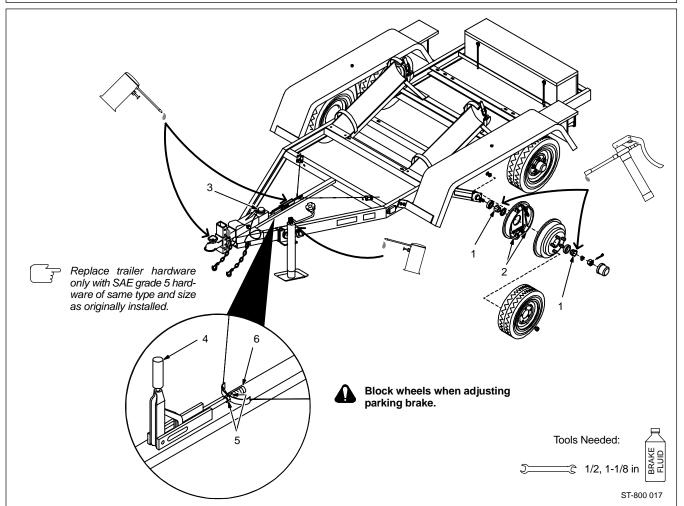
- Apply parking brake while performing maintenance (see Section 3-1).
- Support trailer with jack, or use proper equipment to lift trailer.
- Do not put any body part under trailer while lifting or performing maintenance.

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#### NOTE



Do not use trailer if any part is damaged or not working properly. When performing maintenance, check trailer for worn, damaged, or non-working parts. Check for free rotation of assemblies mounted on bushings or bearings.



Support trailer with jack. Apply parking brake.

Once a year, lubricate all moving parts on trailer with SAE 20W oil. Lubricate more often if trailer is exposed to elements or subject to frequent off-road use.

#### 1 Wheel Bearings

Every 12,000 miles, check wheel bearings. Repack bearings if necessary using a good quality lithium-based extreme pressure grease.

#### 2 Brake Linings

Check linings every 20,000 miles and replace if necessary.

When reinstalling wheels, be sure wheel nuts are properly tightened (see Trailer Towing Safety Precautions).

#### 3 Brake Fluid Reservoir

Check fluid level in reservoir at least 3 times yearly. Add fluid if not up to full mark. Use DOT Series 3 brake fluid from a sealed container. See brake actuator Owner's Manual.

#### 4 Parking Brake Handle

To adjust parking brake, release brake and turn handle. Turn clockwise to increase brake pressure or counterclockwise to decrease brake pressure.

Adjust brake so less than 30 ft lb (41 N·m) of force is required to apply or release brake handle.

If parking brake cannot be adjusted by turning handle, proceed as follows:

Release parking brake. Turn parking brake handle counterclockwise as far as possible.

#### 5 Lock Nuts

#### 6 Adjustment Rod

Loosen lock nuts on rod. Slide rod slightly forward. Tighten nuts.

Turn handle clockwise until parking brake is properly adjusted.

Figure 3-8. Trailer Maintenance

#### 3-8. Torquing Wheel Bearings

### WARNING **FALLING EQUIPMENT INCORRECT BEARING MAINTENANCE** can serious personal injury and equipment can cause loss of control resulting in damage. serious injury and equipment damage. Use equipment of adequate capacity to lift unit. • Check and repack wheel bearings once a year or Do not put any body part under unit while lifting or every 12,000 miles (19,500 km), whichever comes working on bearings. rwarn1.1\* 2/94 Torque wheel bearings whenever hub nut is removed or hub is too loose. Repack bearings according to Section 3-7. Tools Needed: 0.01 in (0.2 mm) endplay maximum □ 13/16, 1-1/8 in Check hub endplay. If loose, Remove cap and cotter pin. remove wheel and go to next step. == 13/16, 1-1/8 in Torque to 12 ft lb (16 N·m) Turn nut until "just loose." Torque nut while turning hub forward. Do not loosen nut more than 1/6 turn in this step. Pin must not rub on cap.

Figure 3-9. Torquing Wheel Bearings

Loosen nut further until first slot in nut aligns with hole in spindle.

Ref. ST-800 441-A

Install new cotter pin and bend ends around nut. Install cap.

Install wheel (See Trailer Towing Safety Precautions) and recheck endplay.

### **SECTION 4 – PARTS LIST**

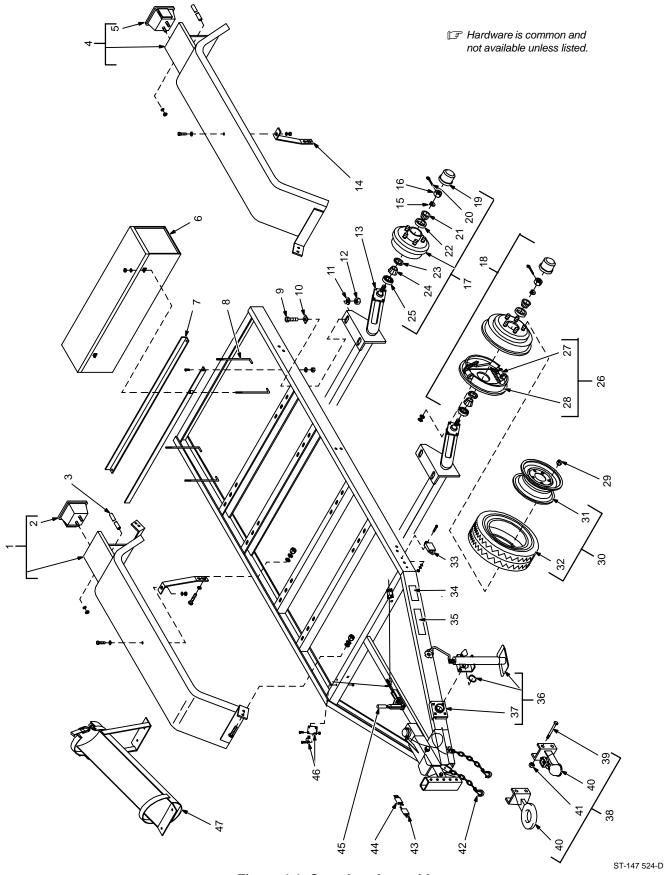


Figure 4-1. Complete Assembly

#### Figure 4-1. Complete Assembly

1 003 764 FENDER, RH w/light (consisting of)
2 034 136 LAMP, 12V 1
3 070 587 TUBING, gl acrylic .229249 ID No. 4 (order by ft)
4 003 765 FENDER, LH w/light (consisting of )
5 034 137 LAMP, 12V w/license light
♦ 040 638 TOOL BOX, 44in (consisting of)
6 018 955 TOOL BOX
7 015 963 ANGLE, support-tool box
8 BOLT, hook stl .312-18
9 605 783 SCREW, cap stl hexhd .625-18 x 2.000 (qty of 4 used for mounting unit) 12
10 034 121 WASHER, beveled .625 hole
11 602 249 WASHER, flat stl SAE .625 (qty of 4 used for mounting unit) 16
12 601 851 NUT, stl slflkg hex reg .625-18 (qty of 4 used for mounting unit)
13 030 487 AXLE, 2000lbs
14 028 808 BRACKET, support fender
601 871 NUT, stl hex jam .375-16 14
15 010 182 WASHER, flat stl keyed .750
16 010 181 NUT, hex slotted .750-16 4
17 028 492 HUB ASSEMBLY (consisting of)
18 028 931 HUB & DRUM, wheel 10in (consisting of)
19 GREASE CAP, 1 in
20
21
22
23
24
25
26 028 929 CLUSTER, brake 10 in RH (consisting of)
27 028 927 CYLINDER, brake wheel RH (Dico 9776)
27 028 927 CTLINDER, brake wheel RH (Dico 9776)
28 028 926 BRAKE SHOE SET, wheel 10in (Dico 10952 front 10953 rear) 1
29 088 879 WHEEL NUTS
30 110 876 WHEEL, w/tire & rim (consisting of)
31 110 803 RIM, 14.000in x 5.500 wide
32 022 675 TIRE, tubeless F78-14
33 034 479 LIGHT & REFLECTOR, amber
602 110 SCREW, mach stl rdh 10-24 x .750 4
602 203 WASHER, lock stl split 10-24 4
601 861 NUT, stl hex mscr 10-24 4
34 NAMEPLATE (order by model and serial number)
35 095 555 LABEL, warning lifting trailer
36 163 049 JACK, swivel w/mtg plate (consisting of)
37 136 037 BRACKET, swivel jack
38 • 042 153 2" BALL HITCH (consisting of)
38 • 042 152 3" LUNNETTE EYE (consisting of)
39 003 835 SCREW, cap stl hex hd .500-20 x 4.500 2
40 114 184 COUPLER ASSEMBLY, hitch 2 in ball
40 114 183 EYE, lunnette 3 in
41 604 450 NUT, slflkg hex full .500-20

Item	Part		
No.	No.	Description	Quantity
		Figure 4-1. Complete Assembly (Continued)	
42	130 228	. CHAIN, safety	2
		. CONNECTOR, trailer lights	
		. WIRING HARNESS, 15ft	
		BRAKE KIT, hand parking	
		. CONNECTOR, tab	
	010 091	. CLAMP, cable wire rope .125 x .750	2
	108 940	. SCREW, cap stl hexhd .250-20 (ground)	1
		. STRIP, mtg brake line	
	601 948	. SCREW, cap stl hexhd .312-18 x 1.000	8
		NUT, stl slflkg hex hvy .312	
		. CRT CYLINDER RACK, (consisting of)	
		HOLDER, cylinder	
		SCREW, cap stl hexhd .500-13 x 1.500	
		WASHER, flat stl .500	
		WASHER, lock stl split .500	
			_

#### **♦**OPTIONAL

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

...... 601 879 .... NUT, stl hex full fnsh .500-13 ...... 8



Effective January 1, 2000

(Equipment with a serial number preface of "LA" or newer)

This limited warranty supersedes all previous Miller warranties and is exclusive with no other guarantees or warranties expressed or implied.

Warranty Questions?
Call
1-800-4-A-MILLER
for your local
Miller distributor.

Your distributor also gives you ...

#### Service

You always get the fast, reliable response you need. Most replacement parts can be in your hands in 24 hours.

#### Support

Need fast answers to the tough welding questions? Contact your distributor. The expertise of the distributor and Miller is there to help you, every step of the way.

LIMITED WARRANTY – Subject to the terms and conditions below, Miller Electric Mfg. Co., Appleton, Wisconsin, warrants to its original retail purchaser that new Miller equipment sold after the effective date of this limited warranty is free of defects in material and workmanship at the time it is shipped by Miller. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

Within the warranty periods listed below, Miller will repair or replace any warranted parts or components that fail due to such defects in material or workmanship. Miller must be notified in writing within thirty (30) days of such defect or failure, at which time Miller will provide instructions on the warranty claim procedures to be followed.

Miller shall honor warranty claims on warranted equipment listed below in the event of such a failure within the warranty time periods. All warranty time periods start on the date that the equipment was delivered to the original retail purchaser, or one year after the equipment is sent to a North American distributor or eighteen months after the equipment is sent to an International distributor.

- 1. 5 Years Parts 3 Years Labor
  - \* Original main power rectifiers
  - Inverters (input and output rectifiers only)
- 2. 3 Years Parts and Labor
  - \* Transformer/Rectifier Power Sources
  - \* Plasma Arc Cutting Power Sources
  - \* Semi-Automatic and Automatic Wire Feeders
  - \* Inverter Power Supplies
  - \* Intellitig
  - Engine Driven Welding Generators (NOTE: Engines are warranted separately by the engine manufacturer.)
- 3. 1 Year Parts and Labor
  - \* DS-2 Wire Feeder
  - Motor Driven Guns (w/exception of Spoolmate 185 & Spoolmate 250)
  - \* Process Controllers
  - \* Positioners and Controllers
  - \* Automatic Motion Devices
  - \* RFCS Foot Controls
  - \* Induction Heating Power Sources
  - \* Water Coolant Systems
  - \* HF Units
  - \* Grids
  - \* Maxstar 140
  - \* Spot Welders
  - \* Load Banks
  - \* Miller Cyclomatic Equipment
  - \* Running Gear/Trailers
  - Plasma Cutting Torches (except APT & SAF Models)
  - \* Field Options

(NOTE: Field options are covered under True Blue® for the remaining warranty period of the product they are installed in, or for a minimum of one year — whichever is greater.)

- 4. 6 Months Batteries
- 5. 90 Days Parts
  - \* MIG Guns/TIG Torches
  - \* Induction Heating Coils and Blankets

- APT, ZIPCUT & PLAZCUT Model Plasma Cutting Torches
- Remote Controls
- \* Accessory Kits
- \* Replacement Parts (No labor)
- \* Spoolmate 185 & Spoolmate 250
- Canvas Covers

Miller's True Blue® Limited Warranty shall not apply to:

- Consumable components; such as contact tips, cutting nozzles, contactors, brushes, slip rings, relays or parts that fail due to normal wear.
- Items furnished by Miller, but manufactured by others, such as engines or trade accessories. These items are covered by the manufacturer's warranty, if any.
- 3. Equipment that has been modified by any party other than Miller, or equipment that has been improperly installed, improperly operated or misused based upon industry standards, or equipment which has not had reasonable and necessary maintenance, or equipment which has been used for operation outside of the specifications for the equipment.

MILLER PRODUCTS ARE INTENDED FOR PURCHASE AND USE BY COMMERCIAL/INDUSTRIAL USERS AND PERSONS TRAINED AND EXPERIENCED IN THE USE AND MAINTENANCE OF WELDING EQUIPMENT.

In the event of a warranty claim covered by this warranty, the exclusive remedies shall be, at Miller's option: (1) repair; or (2) replacement; or, where authorized in writing by Miller in appropriate cases, (3) the reasonable cost of repair or replacement at an authorized Miller service station; or (4) payment of or credit for the purchase price (less reasonable depreciation based upon actual use) upon return of the goods at customer's risk and expense. Miller's option of repair or replacement will be F.O.B., Factory at Appleton, Wisconsin, or F.O.B. at a Miller authorized service facility as determined by Miller. Therefore no compensation or reimbursement for transportation costs of any kind will be allowed.

TO THE EXTENT PERMITTED BY LAW, THE REMEDIES PROVIDED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL MILLER BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFIT), WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY.

ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTY OR REPRESENTATION AS TO PERFORMANCE, AND ANY REMEDY FOR BREACH OF CONTRACT TORT OR ANY OTHER LEGAL THEORY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE OR COURSE OF DEALING, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, WITH RESPECT TO ANY AND ALL EQUIPMENT FURNISHED BY MILLER IS EXCLUDED AND DISCLAIMED BY MILLER.

Some states in the U.S.A. do not allow limitations of how long an implied warranty lasts, or the exclusion of incidental, indirect, special or consequential damages, so the above limitation or exclusion may not apply to you. This warranty provides specific legal rights, and other rights may be available, but may vary from state to state.

In Canada, legislation in some provinces provides for certain additional warranties or remedies other than as stated herein, and to the extent that they may not be waived, the limitations and exclusions set out above may not apply. This Limited Warranty provides specific legal rights, and other rights may be available, but may vary from province to province.





Please complete and retain with your personal records.

Model Name	Serial/Style Number	
Purchase Date	(Date which equipment was delivered to original customer.)	
Distributor		
Address		
City		
State	Zip	



### For Service

Call 1-800-4-A-Miller or see our website at www.MillerWelds.com to locate a DISTRIBUTOR or SERVICE AGENCY near you.

Always provide Model Name and Serial/Style Number.

Contact your Distributor for: Welding Supplies and Consumables

Options and Accessories

Personal Safety Equipment

Service and Repair

Replacement Parts

Training (Schools, Videos, Books)

Technical Manuals (Servicing Information

and Parts)

Circuit Diagrams

Welding Process Handbooks

Contact the Delivering Carrier for:

File a claim for loss or damage during

For assistance in filing or settling claims, contact your distributor and/or equipment manufacturer's Transportation Department. shipment.

Miller Electric Mfg. Co.

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www.MillerWelds.com

