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2015-09

Process



Submerged Arc Welding (SAW)



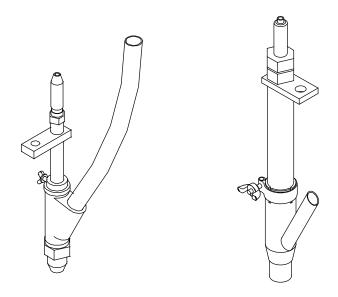
Automatic Welding

Description



Torches For Automatic Welding Systems Using The Submerged Arc Welding (SAW) Process

Torches for Automated Applications

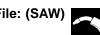


OBT-600 And OBT-1200

OWNER'S MANUAL

File: (SAW)





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.



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

We've 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 the 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 specification 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.



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SECTION 1 –SAFETY PRECAUTIONS FOR GMAW **WELDING GUNS - READ BEFORE USING**

SR7 (MIG) 2013-09

A Protect yourself and others from injury — read, follow, and save these important safety precautions and operating instructions.

Symbol Usage



DANGER! - Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

NOTICE – Indicates statements not related to personal injury.

I Indicates special instructions.



This group of symbols means Warning! Watch Out! ELECTRIC SHOCK, MOVING PARTS, and HOT PARTS hazards. Consult symbols and related instructions below for necessary actions to avoid the hazards.

1-2. Arc Welding Hazards



The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the welding power source Owner's Manual. Read and follow all Safety Standards.



A Only qualified persons should install, operate, maintain, and repair this unit.



During operation, keep everybody, especially children, away.



ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Replace worn, damaged, or cracked guns or cables.
- Turn off welding power source before changing contact tip or gun
- Keep all covers and handle securely in place.



FUMES AND GASES can be hazardous.

- Keep your head out of the fumes.
- Ventilate area, or use breathing device. The recommended way to determine adequate

ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.

Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.



WELDING can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on containers that have held combustibles, or on closed containers such as

tanks, drums, or pipes unless they are properly prepared according to AWS F4.1 and AWS A6.0 (see Safety Standards).

- Watch for fire; keep extinguisher nearby.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.



BUILDUP OF GAS can injure or kill.

- Shut off compressed gas supply when not in
- Always ventilate confined spaces or use approved air-supplied respirator.



MOVING PARTS can injure.

- Keep away from moving parts.
- Keep away from pinch points such as drive rolls.



ARC RAYS can burn eyes and skin.

Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the

- Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes from arc rays and sparks when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards).
- Wear approved safety glasses with side shields under your helmet.
- Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.
- Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.



HOT PARTS can burn.

- Allow gun to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.





NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

- Check for noise level limits exceeding those specified by OSHA.
- Use approved ear plugs or ear muffs if noise level is high.
- Warn others nearby about noise hazard.



WELDING WIRE can injure.

 Keep hands and body away from gun tip when trigger is pressed.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit. Read the safety information at the beginning of the manual and in each section
- Use only genuine replacement parts from the manufacturer.
- Perform maintenance and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

1-3. Proposition 65 Warnings



Welding or cutting equipment produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. (California Health & Safety Code Section 25249.5 et seq.)



This product contains chemicals, including lead, known to the state of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use.

1-4. Principal Safety Standards

Safety in Welding, Cutting, and Allied Processes, ANSI Standard Z49.1, is available as a free download from the American Welding Society at http://www.aws.org or purchased from Global Engineering Documents (phone: 1-877-413-5184, website: www.global.ihs.com).

Safe Practice For Occupational And Educational Eye And Face Protection, ANSI Standard Z87.1, from American National Standards Institute, 25 West 43rd Street, New York, NY 10036 (phone: 212-642-4900, website: www.ansi.org).

Safe Practices for the Preparation of Containers and Piping for Welding and Cutting, American Welding Society Standard AWS F4.1, from Global Engineering Documents (phone: 1-877-413-5184, website: www.global.ihs.com).

Safe Practices for Welding and Cutting Containers that have Held Combustibles, American Welding Society Standard AWS A6.0, from Global Engineering Documents (phone: 1-877-413-5184, website: www.global.ihs.com).

National Electrical Code, NFPA Standard 70, from National Fire Protection Association, Quincy, MA 02269 (phone: 1-800-344-3555, website: www.nfpa.org and www. sparky.org).

Safe Handling of Compressed Gases in Cylinders, CGA Pamphlet P-1, from Compressed Gas Association, 14501 George Carter Way, Suite 103, Chantilly, VA 20151 (phone: 703-788-2700, website: www.cganet.com).

Safety in Welding, Cutting, and Allied Processes, CSA Standard W117.2, from Canadian Standards Association, Standards Sales, 5060 Spectrum Way, Suite 100, Ontario, Canada L4W 5NS (phone: 800-463-6727, website: www.csa-international.org).

Safe Practice For Occupational And Educational Eye And Face Protection, ANSI Standard Z87.1, from American National Standards Institute, 25 West 43rd Street, New York, NY 10036 (phone: 212-642-4900, website: www.ansi.org).

Standard for Fire Prevention During Welding, Cutting, and Other Hot Work, NFPA Standard 51B, from National Fire Protection Association, Quincy, MA 02269 (phone: 1-800-344-3555, website: www.nfpa.org. OSHA, Occupational Safety and Health Standards for General Industry, Title 29, Code of Federal Regulations (CFR), Part 1910, Subpart Q, and Part 1926, Subpart J, from U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 (phone: 1-866-512-1800) (there are 10 OSHA Regional Offices—phone for Region 5, Chicago, is 312-353-2220, website: www.osha.gov).

1-5. EMF Information

Electric current flowing through any conductor causes localized electric and magnetic fields (EMF). The current from arc welding (and allied processes including spot welding, gouging, plasma arc cutting, and induction heating operations) creates an EMF field around the welding circuit. EMF fields may interfere with some medical implants, e.g. pacemakers. Protective measures for persons wearing medical implants have to be taken. For example, restrict access for passers—by or conduct individual risk assessment for welders. All welders should use the following procedures in order to minimize exposure to EMF fields from the welding circuit:

- Keep cables close together by twisting or taping them, or using a cable cover.
- Do not place your body between welding cables. Arrange cables to one side and away from the operator.

- 3. Do not coil or drape cables around your body.
- 4. Keep head and trunk as far away from the equipment in the welding circuit as possible.
- Connect work clamp to workpiece as close to the weld as possible.
- 6. Do not work next to, sit or lean on the welding power source.
- Do not weld whilst carrying the welding power source or wire feeder.

About Implanted Medical Devices:

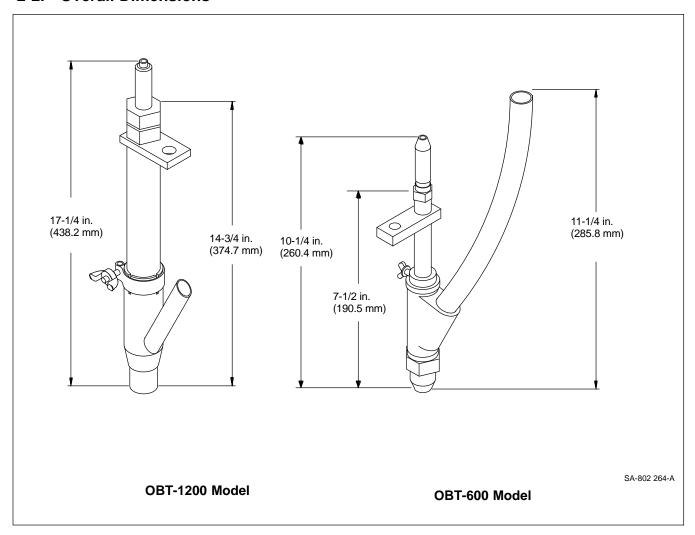
Implanted Medical Device wearers should consult their doctor and the device manufacturer before performing or going near arc welding, spot welding, gouging, plasma arc cutting, or induction heating operations. If cleared by your doctor, then following the above procedures is recommended

SECTION 2 – SPECIFICATIONS

2-1. Welding Torches

N41 - 1	Rating: 100%	Wise Discussion Connection	Cooling	Weight
Model	Duty Cycle DCEP	Wire Diameter Capacity	Method	Net
OBT-600	600 Amperes Submerged Arc	1/16, 5/64, 3/32, 7/64, 1/8, 5/32, 3/16 in. (1.6, 2.0, 2.4, 2.8, 3.2, 4.0, 4.8 mm) Hard Wire	Air	2 lb (0.91 kg)
OBT-1200	1200 Amperes Submerged Arc	1/16, 5/64, 3/32, 7/64, 1/8, 5/32, 3/16 in. (1.6, 2.0, 2.4, 2.8, 3.2, 4.0, 4.8 mm) Hard Wire	Air	7 lb (3.2 kg)

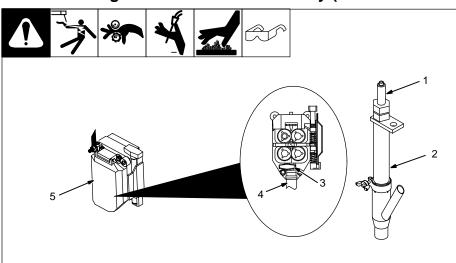
2-2. Overall Dimensions



SECTION 3 – INSTALLATION

For complete installation into wire drive assembly, see wire drive Owner's Manual.

3-1. Installing Torch Into Drive Assembly (OBT-1200 Shown)

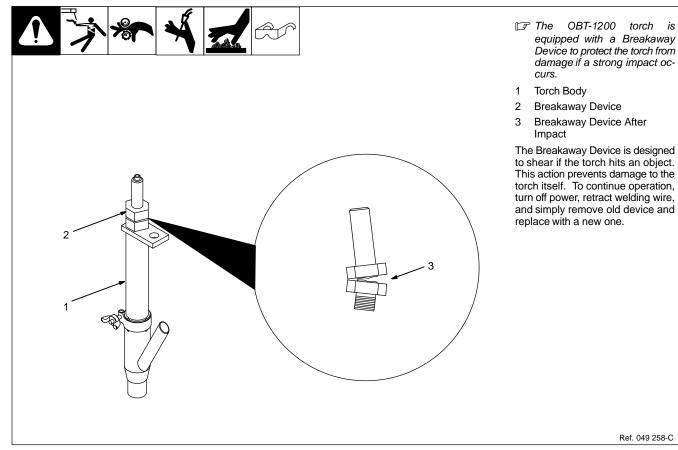


- Breakaway Device With Wire Inlet Guide
- 2 Torch Body
- 3 Torch Securing Handle
- 4 Torch End With Inlet Guide
- 5 Wire Drive Assembly

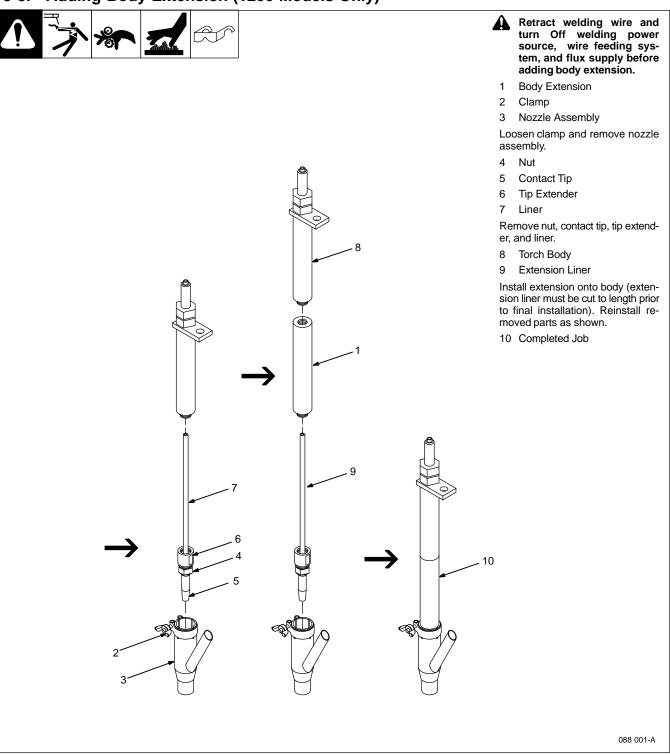
Turn Off power, loosen handle (3), insert torch end (1) into drive assembly, and tighten handle (3).

Ref. 080 847-A

3-2. Breakaway Torch Protection (OBT-1200 Models Only)

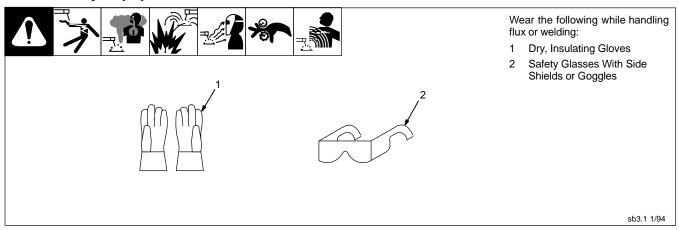


3-3. Adding Body Extension (1200 Models Only)



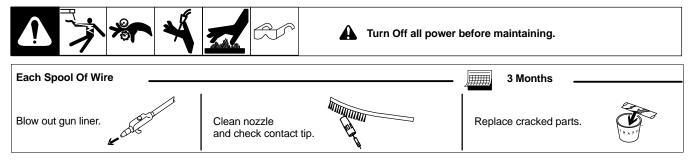
SECTION 4 - OPERATION

4-1. Safety Equipment



SECTION 5 - MAINTENANCE AND TROUBLESHOOTING

5-1. Maintenance Schedule



5-2. Troubleshooting Table

Trouble	Remedy
Wire does not feed.	Check contact tip. Check for kinks in outlet cable. Check connections at wire drive assembly. Have nearest Factory Authorized Service Agent check automatic equipment and welding power source.
Wire is not energized.	Check contact tip. Check connections at wire drive assembly. Have nearest Factory Authorized Service Agent check automatic equipment and welding power source.
Wire feeds unevenly.	Check contact tip. Check for kinks in outlet cable. Blow out gun liner and outlet cable casing.

SECTION 6 - PARTS LIST

Hardware is common and not available unless listed.

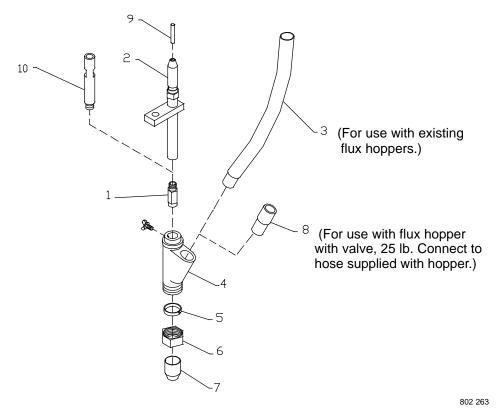


Figure 6-1. Complete Assembly Of OBT-600 Torch

ItemPartNo.No.DescriptionQuantity

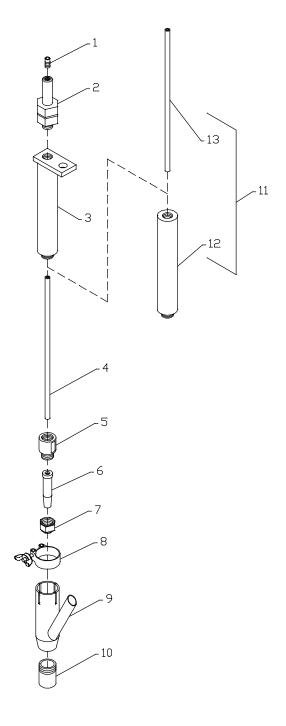
Figure 6-1.	Complete	Assembly	Of	OBT-600
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1 192700 ♦ TIP, CONTACT 1/16 in
1 192701 ♦ TIP, CONTACT 5/64 in
1 192702 ♦ TIP, CONTACT 3/32 in
1 192703 ♦ TIP, CONTACT 7/64 in
1 192704 ♦ TIP, CONTACT 1/8 in
1 192705 ♦ TIP, CONTACT 5/32 in
1 192706 ♦ TIP, CONTACT 3/16 in
2 192692 TORCH BODY 1
3 192694 HOSE, FLUX w/ insulator
4 192693 CONE ASSY, BODY
5 192695 FERRULE, locking
6 192697 NUT, retaining
7 192696 CONE, flux
8 200566 ADAPTER, hose
9 193146 * LINER, wire 1/16 – 1/8 x 8.125
9 193145 * LINER, wire 5/32 x 8.125
. 10 043967 ♦ EXTENSION, torch body OBT–1 inch
. 10 043969 ♦ EXTENSION, torch body OBT–2 inch
. 10 043973 ♦ EXTENSION, torch body OBT–4 inch
. 10 043975 ♦ EXTENSION, torch body OBT–6 inch

[◆] Optional

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. The Model Number is required when ordering parts from your distributor.

^{*}Wire size 3/16 does not require a liner.



802 263-A

Figure 6-2. Complete Assembly Of OBT-1200 Torch

Figure 6-2. Complete Assembly Of OBT-1200 Torch

1 049740 ♦ GUIDE, wire inlet 5/32–1/4 1	
1 081925 ♦ GUIDE, wire inlet 1/16–1/8 1	
1 199945 GUIDE, wire inlet 5/32–1/4 (for RAD-400 & RAD-780)	
1 199946 GUIDE, wire inlet 1/16–1/8 (for RAD-400 & RAD-780)	
2 192132 INLET GUIDE ADAPTER, W/ breakaway feature	
3 192131 TORCH BODY ASSY 1	
4 192139 LINER, wire 1/16–1/8 in	
4 192687 LINER, wire 5/32–3/16 in	
5 192133 EXTENDER, TIP	
6 192141 ♦ TIP, CONTACT 1/16 in	
6 199026 ♦ TIP, CONTACT 5/64 in	
6 192142 ♦ TIP, CONTACT 3/32 in	
6 200771 ♦ TIP, CONTACT 7/64 in	
6 192143 ♦ TIP, CONTACT 1/8 in	
6 192144 ♦ TIP, CONTACT 5/32 in	
6 192136 ♦ TIP, CONTACT 3/16 in	
7 192135 NUT, tip	
8 192758 CLAMP, securing	
9 192137 NOZZLE ASSY, flux	
. 10 192138 NOZZLE, flux replaceable	
. 11 043981 ♦TORCH BODY EXTENSION 8.5 in (includes)	
. 12 192892 TORCH BODY EXTENSION	
. 13 200749 LINER, wire 1/16–1/8 x 36 in	
. 13 200750 LINER, wire 5/32–3/16 x 36 in	
. 13 200750 LINER, wire 3/32 x 36 in	
. 10 111 200101 1111 Entery Will 1/02 / 00 III 111111111111111111111111111111	

◆ Optional

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. The Model Number is required when ordering parts from your distributor.

Notes	

TRUEBLUE®
WARRANTY

Effective January 1, 2015 (Equipment with a serial number preface of MF or newer)

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

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

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. If notification is submitted as an online warranty claim, the claim must include a detailed description of the fault and the troubleshooting steps taken to identify failed components and the cause of their failure.

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 delivery date of the equipment to the original end-user purchaser, and not to exceed twelve months after the equipment is shipped to a North American distributor or eighteen months after the equipment is shipped to an International distributor.

1. 5 Years Parts — 3 Years Labor

MERCHANTABILITY AND FITNESS.

- * Original Main Power Rectifiers Only to Include SCRs, Diodes, and Discrete Rectifier Modules
- 2. 3 Years Parts and Labor
 - * Auto-Darkening Helmet Lenses (Except Classic Series) (No Labor)
 - * Engine Driven Welder/Generators

(NOTE: Engines are Warranted Separately by the Engine Manufacturer.)

- * Inverter Power Sources (Unless Otherwise Stated)
- Plasma Arc Cutting Power Sources
- Process Controllers
- * Semi-Automatic and Automatic Wire Feeders
- * Transformer/Rectifier Power Sources
- 3. 2 Years Parts and Labor
 - * Auto-Darkening Helmet Lenses Classic Series Only (No Labor)
 - * Fume Extractors Capture 5, Filtair 400 and Industrial Collector Series
- 4. 1 Year Parts and Labor Unless Specified
 - * Automatic Motion Devices
 - * CoolBelt and CoolBand Blower Unit (No Labor)
 - Desiccant Air Dryer System
 - * External Monitoring Equipment and Sensors
 - * Field Options

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

- * RFCS Foot Controls (Except RFCS-RJ45)
- * Fume Extractors Filtair 130, MWX and SWX Series
- * HF Units
- * ICE/XT Plasma Cutting Torches (No Labor)
- Induction Heating Power Sources, Coolers
 (NOTE: Digital Recorders are Warranted Separately
 by the Manufacturer.)
- * LiveArc Welding Performance Management System
- Load Banks
- * Motor-Driven Guns (except Spoolmate Spoolguns)
- * PAPR Blower Unit (No Labor)
- * Positioners and Controllers
- * Racks
- * Running Gear/Trailers
- Spot Welders
- * Subarc Wire Drive Assemblies
- * Water Coolant Systems
- * TIG Torches (No Labor)
- * Wireless Remote Foot/Hand Controls and Receivers
- Work Stations/Weld Tables (No Labor)

- 5. 6 Months Parts
 - * Batteries
 - * Bernard Guns (No Labor)
 - * Tregaskiss Guns (No Labor)
- 6. 90 Days Parts
 - * Accessory (Kits)
 - Canvas Covers
 - Induction Heating Coils and Blankets, Cables, and Non-Electronic Controls
 - M-Guns
 - * MIG Guns and Subarc (SAW) Torches
 - * Remote Controls and RFCS-RJ45
 - * Replacement Parts (No labor)
 - Roughneck Guns
 - Spoolmate Spoolguns

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

- Consumable components; such as contact tips, cutting nozzles, contactors, brushes, relays, work station table tops and welding curtains, or parts that fail due to normal wear. (Exception: brushes and relays are covered on all engine-driven products.)
- 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.
- 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 INDIRECT, SPECIAL, INCIDENTAL 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.



Warranty Questions?

1-800-4-A-MILLER

for your local

Miller distributor.

Your distributor also gives

You always get the fast,

need. Most replacement

Need fast answers to the

tough welding questions?

Contact your distributor.

distributor and Miller is

there to help you, every

The expertise of the

step of the way.

reliable response you

parts can be in your

hands in 24 hours.

Call

you ...

Service

Support



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



Contact 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
	To locate a Distributor or Service Agency visit www.millerwelds.com or call 1-800-4-A-Miller
Contact the Delivering Carrier to:	File a claim for loss or damage during shipment.
	For assistance in filing or settling claims, contact your distributor and/or equipment manufacturer's Transportation Department.
	-

Miller Electric Mfg. Co.

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For International Locations Visit www.MillerWelds.com

