

INSTRUCTION MANUAL FOR MIG WELDING MACHINE

IMPORTANT!!!

READ THIS MANUAL CAREFULLY BEFORE INSTALLING, USING, OR PERFORMING ANY MAINTENANCE ON THE MACHINE. PAY SPECIAL ATTENTION TO THE CHAPTER ON "SAFETY PRECAUTIONS". CONTACT YOUR DISTRIBUTOR IF YOU DO NOT FULLY UNDERSTAND THESE INSTRUCTIONS.

1 GENERAL DESCRIPTIONS

1.1 SPECIFICATIONS

This manual has been prepared for the purpose of educating personnel assigned to install, operate and service the welding machine.

This equipment is a constant-voltage generator, suitable for MIG/MAG and OPEN-ARC welding.

Upon receiving the machine, make sure there are no broken or damaged parts.

The purchaser should address any complaints for losses or damage to the vendor. Please indicate the article and serial number whenever requesting information about the welding machine.

1.2 EXPLANATION OF TECHNICAL SPECIFICATIONS

EN50199: The welding machine is manufactured according to these international standards.

EN60974-1: Serial number, which must be indicated on any type of request regarding the welding machine, three-phase transformer-rectifier.



Flat characteristic.



Downslope



Suitable for continuous electrode welding.



Suitable for TIG welding.



Suitable for MMA welding.



I₂ MAX: Unconventional welding current. This value represents the maximum limit available during welding.



U₀: Secondary open-circuit voltage (peak value).



X: Duty cycle percentage. The duty cycle expresses the percentage of 10 minutes during which the welding machine may run at a certain current without overheating.



I₂: Welding current.



U₂: Secondary voltage with welding current I₂.



U₁: Rated supply voltage.



3- 50/60Hz: 50- or 60-Hz three-phase power supply.



I₁: Absorbed current at the corresponding welding current I₂.



IP21: Protection rating for the housing. Grade 1 as the second digit means that this equipment is suitable for use outdoors in the rain.



S: Suitable for use in high-risk environments.

NOTES: The welding machine has also been designed for use in environments with a pollution rating of 3. (See IEC 664).

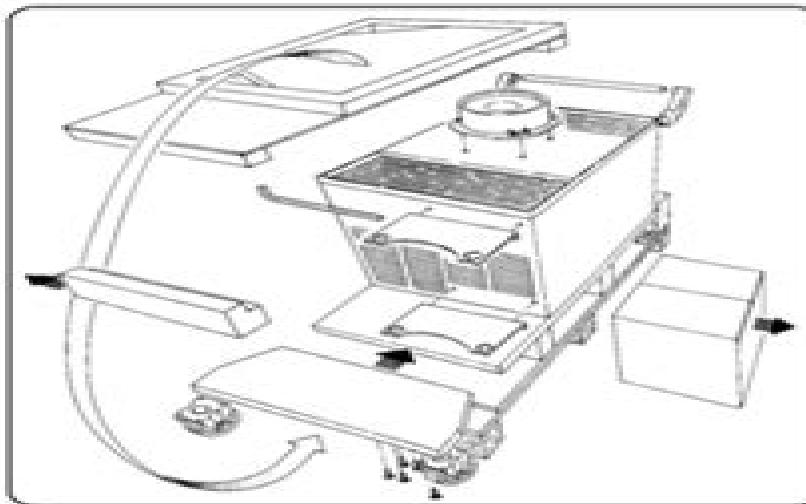
2 INSTALLATION

2.1 PLACEMENT

Dust, dirt, and any other foreign matter entering the welding machine can interfere with ventilation and thus with smooth operation.

Mount the handle, the 2 cylinder supports, the extension support and pivot support.

Mount the 2 fixed wheels on the wheel support located on top of the welder. remove the Styrofoam buffer from under the bottom, at the back of the welding machine. Insert the wheel support on the bottom, fastening it in place with the screws provided.



2.2 START-UP

- Only qualified personnel should install this welding machine.
- Connect a plug suitable for the absorbed current to the power supply cable.
- Connect the yellow-green wire of the machine mains to an efficient grounding socket.
- Never use water pipes as a grounding conductor.

2.2.1 Connecting the mass clip.

- Connect the power cable terminal to socket AA on the machine.
- Connect the mass cable clip to the workpiece.
- Make sure the cable is firmly attached to the mass terminal; check periodically to make sure these connections are tight. A loose coupling may cause drops in the welding current.

Mig Welding Manual

John P. Frick

Mig Welding Manual:

Mig Welding Guide K Weman, G Lindén, 2006-04-30 MIG metal inert gas welding also known as gas metal arc welding GMAW is a key joining technology in manufacturing MIG welding guide provides a comprehensive practical and accessible guide to this widely used process Part one discusses the range of technologies used in MIG welding including power sources shielding gases and consumables Fluxed cored arc welding pulsed MIG welding and MIG brazing are also explored Part two reviews quality and safety issues such as improving productivity in MIG MAG welding assessing weld quality health and safety and methods for reducing costs The final part of the book takes a practical look at the applications of MIG welding with chapters dedicated to the welding of steel and aluminium the use of robotics in MIG welding and the application of MIG welding in the automotive industry MIG welding guide is essential reading for welding and production engineers designers and all those involved in manufacturing Provides extensive coverage on gas metal arc welding a key process in industrial manufacturing User friendly in its language and layout Looks at the practical applications of MIG welding *Introduction to M.I.G. Welding*, 1975

The Farm Welding Handbook Richard Finch, **Manufacturing Engineer's Reference Book** D. KOSHAL, 2014-06-28 Never before have the wide range of disciplines comprising manufacturing engineering been covered in such detail in one volume Leading experts from all over the world have contributed sections The coverage represents the most up to date survey of the broad interests of the manufacturing engineer Extensive reference lists are provided making this an indispensable work for every engineer in industry Never before have the wide range of disciplines comprising manufacturing engineering been covered in such detail in one volume Leading experts from all over the world have contributed sections Materials and processes are described as well as management issues ergonomics maintenance and computers in industry CAD Computer Aided Design CAE Computer Aided Engineering CIM Computer Integrated Manufacturing and Quality are explored at length The coverage represents the most up to date survey of the broad interests of the manufacturing engineer Extensive reference lists are provided making this an indispensable work for every engineer in industry *Welding Design & Fabrication Data Book*, 1960 *The TAB Guide to DIY Welding* Jackson Morley, 2013-05-07

Hands on projects and illustrated instructions with photos and drawings that provide step by step procedures and clear explanations *A Management and Engineer's Guide to MIG Welding Quality, Costs, and Training* Edward F. Craig, 1996 MIG and flux cored weld results achieved with the world's most utilized welding equipment are frequently influenced by weld sales advice This 600 plus page book has been called the MIG bible by some readers It's the most comprehensive book ever written on managing the MIG process The book covers all aspects of controlling both the MIG and flux cored process A MANAGER OR ENGINEER DOES NOT REQUIRE THE ABILITY TO WELD HOWEVER THEY SHOULD HAVE THE FUNDAMENTAL PROCESS KNOWLEDGE OF WHAT MAKES A GOOD MIG OR FLUX CORED WELD WHEN A MANAGER OR ENGINEER UNDERSTANDS HOW SALES INFLUENCE AND HYPE EFFECTS THE WELD SHOP THEY ARE WELL ON THEIR

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Table of Contents Mig Welding Manual

1. Understanding the eBook Mig Welding Manual
 - The Rise of Digital Reading Mig Welding Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mig Welding Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mig Welding Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mig Welding Manual
 - Personalized Recommendations
 - Mig Welding Manual User Reviews and Ratings
 - Mig Welding Manual and Bestseller Lists

5. Accessing Mig Welding Manual Free and Paid eBooks
 - Mig Welding Manual Public Domain eBooks
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 - Mig Welding Manual Budget-Friendly Options
6. Navigating Mig Welding Manual eBook Formats
 - ePUB, PDF, MOBI, and More
 - Mig Welding Manual Compatibility with Devices
 - Mig Welding Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mig Welding Manual
 - Highlighting and Note-Taking Mig Welding Manual
 - Interactive Elements Mig Welding Manual
8. Staying Engaged with Mig Welding Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mig Welding Manual
9. Balancing eBooks and Physical Books Mig Welding Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mig Welding Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mig Welding Manual
 - Setting Reading Goals Mig Welding Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mig Welding Manual
 - Fact-Checking eBook Content of Mig Welding Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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