

# 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 vector. 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.  
EN50974.1 Serial number, which must be indicated on any type of request regarding the welding machine.  
N<sup>3</sup> three-phase transformer-rectifier.



Flat characteristic.



Downslope



Suitable for continuous electrode welding.



Suitable for TIG welding.



Suitable for MMA welding.

$I_2$  MAX Unconventional welding current. This value represents the maximum limit available during welding.

$U_0$  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.

$I_2$  Welding current.  
 $U_2$  Secondary voltage with welding current  $I_2$ .  
 $U_1$  Rated supply voltage.

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

$I_1$  Absorbed current at the corresponding welding current  $I_2$ .

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

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).

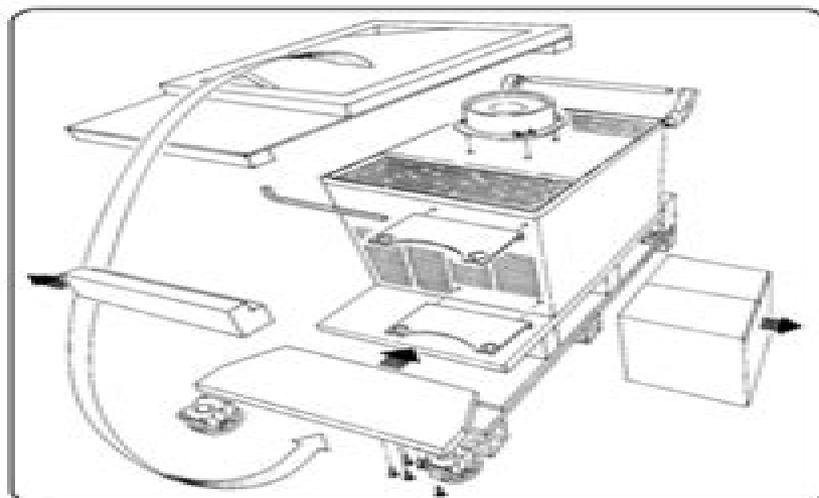
## 2 INSTALLATION

### 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

**David Kirk**



## **Mig Welding Manual:**

**Introduction to M.I.G. Welding** ,1975 *Kaiser Aluminum Weldor's Training Manual* Kaiser Aluminum and Chemical Sales, inc,1958 *Welding Design & Fabrication Data Book* ,1959 Boilers Kumar Rayaprolu,2012-11-20 Following the publication of the author s first book Boilers for Power and Process by CRC Press in 2009 several requests were made for a reference with even quicker access to information Boilers A Practical Reference is the result of those requests providing a user friendly encyclopedic format with more than 500 entries and nearly the same num *Handbook of Aluminum* Alcan Aluminum Corporation,1970 **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 *Handbook of Stainless Steels* Donald Peckner,Irving Melvin Bernstein,1977 **Process Pipe and Tube Welding** W Lucas,1991-05-31 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Automotive Body Repair & Painting Manual** John Haynes,1989-10-15 This is a complete do it yourself guide What you can learn Full color sections on minor repairs and painting Damage repair Painting Rust Repair Additional detailed information includes Rustproofing and undercoating Tools and equipment Repair of minor dents and rust damage Metal working techniques Major rust repair Body component replacement Sanding and painting Car care and detailing Welding Table of Contents Chapter 1 Introduction Chapter 2 Maintaining and preserving the paint body and interior Chapter 3 Damage repair Doing it yourself or having it done Chapter 4 Tools and working facilities Chapter 5 Minor body repairs Chapter 6 Major body repair Chapter 7 Body component replacement Chapter 8 Preparation for painting Chapter 9 Painting Chapter 10 Doors and glass Chapter 11 Trim and accessories Chapter 12 Welding **Woldman's Engineering Alloys** John P. Frick,2000-01-01 Annotation New edition of a reference that presents the values of properties typical for the most common alloy processing conditions thus providing a starting point in the search for a suitable material that will allow with proper use all the necessary design limitations to be met strength toughness corrosion resistance and electronic properties etc The data is arranged alphabetically and contains information on the manufacturer the properties of the alloy and in some cases its use

The volume includes 32 tables that present such information as densities chemical elements and symbols physical constants conversion factors specification requirements and compositions of various alloys and metals Also contains a section on manufacturer listings with contact information Edited by Frick a professional engineering consultant Annotation c Book News Inc Portland OR booknews com

**Metal Construction and British Welding Journal** ,1971 Includes two special issues per year containing the proceedings of a major conference Welding and Metal Fabrication ,1970

**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 WAY TO WELD PROCESS MANAGEMENT In the MIG Management book you will find Extensive data on MIG gas selection without sales input Over 100 pages on the problems with the pulsed process How to establish effective weld process controls for robot cells How to use special techniques to increase robot weld speeds How to optimize manual and robot weld deposition rates How to control sheet metal welds in automotive plants How to best utilize MIG and flux cored for pipe welds All this along with a unique simple method for controlling weld costs These are just a few of the important topics Without question this is the most practical and comprehensive book you will ever find on managing the MIG process

**Motor Auto Body Repair, Technical Manual** Robert Scharff,Ltd Staff Scharff Associates,1992-03

**British Welding Journal** ,1967

**Control of Fissuring in Inconel by Regulating Process Variables** J. D. Carey,G. F. McKittrick,1961

**The Science and Practice of Welding** W. J. Patton,1967 No doubt many persons will agree that welding is a process more easily learned than understood Although this book has much to say in the matter of how to weld it hopes to convey an understanding of what happens when weld metal is deposited And since metals have intriguing methods of misbehaving when welded the beginning of wisdom in welding lies through welding metallurgy But this is not enough As welding methods become rapidly more diversified selding personnel are becoming less and less familiar with the selection and operation of welding equipment everyone it appears does not know the difference between TIG and MIG welding This book is intended to provide enlightenment in these matters

*Welding Research Abroad* ,1992

**Welding Engineer** ,1971

**Welding Journal** ,1987

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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
  - Mig Welding Manual eBook Subscription Services
  - 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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