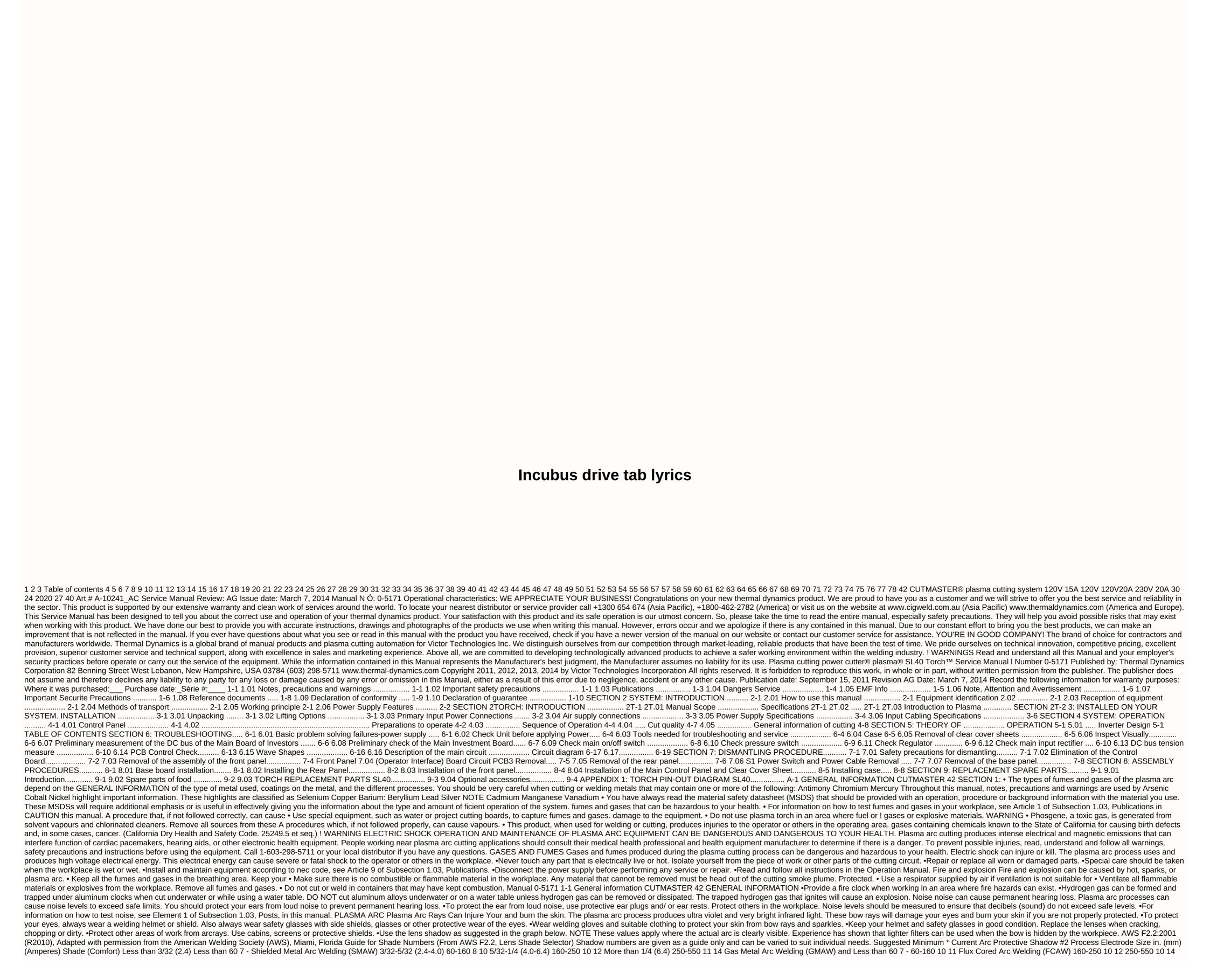
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Gas Tungsten arc Welding (GTAW) Less than 50 8 10 50-150 8 12 150-500 10 14 Air Carbon Arc Cutting (CAC-A) (Light) Less than 500 10 12 (Heavy) 500-1000 11 14 Less than 20 6 6 to 8 Plasma Arc Welding (PAW) 20-100 8 10 100-400 10 12 400-800 11 14 Less than 20 4 4 20-40 50 10 10 10 10 10 10 10 10 10 10 10 10 10	
30-300 8 9 300-400 9 12 400-800 10 14 * As a rule of thumb, start with a shade too dark to see the welding area. Then go to a lighter shade that gives a sufficient view of the welding area without going below the minimum. In welding, cutting or braking oxyfuel gas where the torch and/or use a filter lens that absorbs the yellow or sodium line from the visible light spectrum. Table 1-1 Overview 1-2 Manual 0-5171 GENERAL INFORMATION CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD CUTMASTER 42 See the following standards or their latest revisions for more information: 1.OSHA, HEALTH AND SAFETY STANDARD	ARDS, 29CFR 1910, obtainable from the
Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 2.ANSI Standard Z49.1, WELDING SAFETY AND CUTTING, obtainable from the American Welding Society, 550 N.W. LeJeune Rd, Miami, FL 33126 3.NIOSH, SAFETY AND HEALTH IN ARC AND LOCAL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtainable from the American National Standards Institute, 1430 Broadway, New York, NY 100 CONTROLL PROTECTION PRACTICES, obtained by NY 100	018 5.ANSI Standard Z41.1, STANDARD FOR
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Standards Institute, 1430 Broadway, New York, NY 10018 Manual 0-5171 1-3 GENERAL INFORMATION CUTMASTER 42 OVERVIEW! WARNING The symbols shown below are used throughout this manual to draw attention and identify potential dangers. When you see the symbol, be danger. Only qualified people must test, maintain and repair this unit. Only qualified people must test, maintain and repair this unit. ELECTRIC SHOCK WARNING can kill. •Do not touch live electrical parts. •TurnOffcuttingpowersourceanddisconnect and lockoutinput power using line of the control of the c	lisconnect switch, circuit breakers, or by removing
he plug from the receptacle, or stopping the engine before service unless the procedure specifically requires a drive •Isolate yourself from the ground standing or working on dry insulating mats large enough to avoid contact with the ground. Earth. do not leave the live drive unattended. •In as only familiar with staff and following standard safety practices to do the job. •When trying a live drive, use the method in one hand. Do not put both hands inside the unit. Keep a free hand. •Disconnect the input power conductors from the energetic deseng supply line before moving a live drive, use the method in one hand. •Disconnect the input power conductors from the energetic deseng supply line before moving a live drive, use the method in one hand. •Disconnect the input power conductors from the energetic deseng supply line before moving a live drive.	cutting power supply. SIGNIFICANT D.C.
TENSION exists after removal of input power in investors. •Disconnect inverters, disconnect performance power, and download performance capacitors in accordance with instructions in the Troubleshooting section before touching any portion. STATIC WARNING (ESD) may damage PC nandling tables or parts. •Use suitable static test bags and boxes to store, move or send PC boards. WARNING OF FIRE OR DANGER OF EXPLOSION. •Do not place unity on, on or near combustible surfaces. •Do not use the service unit near flammable. WARNING FLYING METAL OF	R DIRT can injure the eyes. •Wear safety glasses
with side shield or face shield during the service. •Be careful not to short metal tools, parts or wires together during testing and service. WARNING HOT PARTS CAN cause severity burns. •Do not touch the naked hot garments. •Allow the cooling period before working on equipment. •To neavy and insulated welding gloves and clothing to prevent burns. WARNING THE EXPLOSION OF PIECES CAN cause injury. •Failed parties can exploit or exploit other parts when energy is applied to investors. •Always wear a face shield and long sleeves in the inverter service. WARNING THE EXPLOSION OF PIECES CAN cause injury.	NING SHOCK DANGER of testing. •Save disable
he power supply cut or stop the engine before making or changing the lead connections of the meter. •Use a lead of at least one meter that has a self-supporting dock clip, such as a crocodile clip. •Read instructions for test equipment. FALL UNIT WARNING CAN cause injury. •Use the loylinders, or any other accessories. •Use appropriate capacity equipment to lift and support the unit, make sure the forks are long enough to extend beyond the opposite side of the unit. WARNING MOBILE PARTS can cause injuries, •Stay away from	mobile parts such as fans. •Keep it away from pinch
points, such as unit rolls. General information 1-4 Manual GENERAL INFORMATION CUTMASTER 42 •Only qualified people remove panels, roofs or security guards for maintenance as needed. •Keep your hands, hair, loose clothes and tools away from moving parts. Considerations ab and magnetic fields •Reinstallingpanels, covers, orguards when the cutting current is finished, as it flows through cutting cables, will cause electro- and before reconnecting the input power. WARNING MAGNETIC FIELDS can affect implanted medical devices. •Pacemaker carriers and In	nplanted medical devices should stay away from
service areas until consulting your doctor and device manufacturer. OVERUSE CAN CAUSE OVERHEATING. •Allow cooling period; follow the cycle of the autocyclist before starting to cut again. •Do not block or filter airflow in the drive. WARNING H.F. requency (H.F.) ambradionavigation, security services, computers and communications equipment. •Have only qualified people familiar with the production units of electronic equipment, tests and services. •The user is responsible for having a qualified electrician who quickly corrects any	interference problems resulting from the
nstallation. magnetic fields. There has been and still some concern about these fields. However, after examining more than 500 studies spanning 17 years of research, a special blue ribbon committee of the National Research Council concluded that: The body of evidence, in the commit energy frequency electrical and magnetic fields is a danger to human health. However, studies go ahead and tests continue to be examined. Until the final conclusions of the research are reached, you may want to minimize your exposure to electromagnetic fields in welding or cutting. To	reduce magnetic fields in the workplace, use the
following procedures: 1.Keep cables nearby to twist or touch them, or use a cable cover. 2.Arrange cables to one side and outside the operator. 3.Do coil wires or drag around your body. 4.Keep power supply cutting and wires as far away from the operator as practical. 5.Connect the work he welding. On implanted medical devices: users of implanted medical devices should consult their doctor and device manufacturer before performing or going near arc welding, spot welding, gouging, plasma arc cutting, or induction heating operations. If you are cleared by your doctor, in the consult their doctor and device manufacturer before performing or going near arc welding, spot welding, spot welding, spot welding, spot welding, or induction heating operations. If you are cleared by your doctor, in the consult their doctor and device manufacturer before performing or going near arc welding, spot wel	then it is recommended to follow the above
orocedures. •If the FCC notifies you about interference, stop using your computer at the same time. •The installation should be reviewed and maintain high frequency doors and fight glass, keep spark gaps in the correct configuration, and use grounding and shiel WARNING READ INSTRUCTIONS. •UseTestingBooklet(PartNo.150853)whenservicing this drive. •Consult the Holder's Manual to cut safety precautions. •Use replacement tiles only manufacturer. Manual 0-5171 1-5 Informacio General CUTMASTER 42 INFORMACI GENERAL In this natural objections.	nanual, the words nota, aenci, and warning are used
o highlight important information. These re-finishes are classified as follows: NOT procedure or general information that should be emphasized more or contributes to the effectiveness of the system. WARNING Any procedure that may result in damage to the equipment in the event of not a device to feed the aeration of the diseases provided does not eliminate smoke and gases. The types of gas and smoke of the plasma arc depend on the type of metal used, the coatings of the metal and the different processes. You should be careful when cutting or welding any metal the different processes.	nat may contain one or more of the following
elements: antimony cadmium mercury silver arsenic cobalt lead barium barium berillium vanadium manganese -Read every day of data onsecuritys of thematies (American acronym MSDS); these must be provided with the computer you are using. MSDS contains information a hat may pose health risks. ! WARNING Any procedure that may cause injuries to the operator or others in the event of non-compliance with the procedure in question. 1.07 Important Security Conditions! WARNINGS THE OPERATION AND MAINTENANCE OF PLASMA	A REACTION ARC WELDING EQUIPMENT MAY
PRESENT HEALTH RISKS AND RISKS. The bow cutting in the plasma jet produces high voltage electrical energy and magnetic emissions that can interfere with the proper function of a cardiac pacemaker, hearing aids, or other electronic health equipment. Those working near an arc a professional drug member and health equipment manufacturer to determine if there are health risks. Operators and staff must be notified to all possible injury, read, understand and follow all warnings, safety precautions and instructions before using the equipment	t. Call 603-298-5711 or your local distributor if you
nave any questions. SMOKE and GAZ Smoke and gases produced by the plasma reaction process may present health risks and risks. For information on how to test smoke and gas in your workplace, see Article 1 and the documents listed on page 5. Use special equipment such as wat and gas. Do not use the plasma ray blower in an area where materials or materials are found fuels or explosives. Lefosgen, a non-liquid, is generated by the replacement of solvents and chlorinated cleaning products. Remove any source of this smoke. This product, in the process of wellows are the plasma ray blower in an area where materials or materials are found fuels or explosives. Lefosgen, a non-liquid, is generated by the replacement of solvents and chlorinated cleaning products. Remove any source of this smoke. This product, in the process of wellows are the plasma ray blower in an area where materials are found fuels or explosives.	ding and cutting, produces smoke or gases that may
contain recognized elements in the State of California, which can cause birth defects and cancer. (California Health Security and Safety Code Sec. 25249.5 and seq.) ELECTRIC CHOC Electric SHOCKS Can injure or even kill. The plasma jet process requires and produces high voltage serious or even fatal shocks for the operator and others in the workplace. Never tap a live or live part; wear gloves and dry clothes. Insulate yourself from the workplace or other parts of the welding circuit. Repair or replace worn or damaged parts. Take special care when the work area is	wet or wet. Assemble and maintain the equipment
according to the U.S. National Electrical Code. (See page 5, article 9.) Disconnect the power supply before any maintenance or repair work. Read all the words in the documents. Keep smoke and gas away from your breathing area. Keep your head out of the blowtorch's smoke plume. GNFORMATION CUTMASTER 42 INCENDIE AND EXPLOSION Fires and explosions can result from hot scum, sparks or plasma arc. The plasma arc process produces metal, sparks, hot that can ignite combustible materials or cause flammable fumes to explode. Make sure there are no	combustible or flammable materials in the
workplace. Protect any undeasy material from the workspace. Get good ventilation from all flammable or explosive fumes. Do not cut or weld containers that may have contained combustible materials. Provide a fire watch when working in a fire-threatening area. Hydrogen gas can form cout underwater or on a water table. DO NOT cut aluminum alloys underwater or on a water table unless hydrogen gas can escape or dissipate. Accumulated hydrogen gas will explode if ignited. Bruit Noise can cause permanent hearing loss. Plasma arc welding processes can cause nor cause nor cause permanent hearing loss.	mally acceptable limits. It is necessary to protect the
ears from loud noises to prevent permanent hearing loss. For the similar use of thebruitsforts, protective wear and/or ear protections. Also protect others in the workplace. Sound levels must be measured to ensure that decibels (noise) do not exceed safe levels. For information about how Rays from the plasma arc can hurt the eyes and burn the skin. The plasma arc process produces infrared light and very strong ultraviolet rays. These bow rays will damage the eyes and burn the skin if it is not protected properly. To protect your eyes, always wear a helmet or welder screen	en. Always wear safety glasses with side walls or
glasses or some other type of eye protection. Wear welder gloves and appropriate protective clothing to protect your skin from sparkles and bow rays. Keep your helmet and glasses in good condition. Replace any dirty or cracked or cropped lens. Protect others in the work area from arc is higher than the recommendation that follows the chart. NOTE These values are clearly applied or observed in the current arc. Experience has shown that less obscure filters can be used when the arc is hidden by working moiceau. Manual 0-5171 1-7 General information and the current arc. Experience has shown that less obscure filters can be used when the arc is hidden by working moiceau. Manual 0-5171 1-7 General information and the current arc. Experience has shown that less obscure filters can be used when the arc is hidden by working moiceau. Manual 0-5171 1-7 General information are constructed as a second and the current arc.	on CUTMASTER 42 GENERAL INFORMATION
See the following rules or the latest revisions for more information: 1.0 S H A, N O R M E C U R I T U T AVA I L E T D E HEALTH PROTECTION, 29CFR 1910, available in The Documents Superintendent, U.S. Government Printing Office, Washington, D.C. 20402 2.Standard ANSI Z49. DPERATIONS, available at the American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126 3.NIOSH, Health AND SAFETY, available from the Documents Superintendent, U.S. Government Printing Office, Washington, D.C. 20402 4.Standard ANSI Z87.1, PRATICS SURES FO	R THE PROTECTION OF EYES AND VISAGE TO
WORK AND IN THE ECOLES, available at the American National Standards Institute (American National Standards) 1430 Broadway, New York, NY 10018 5. Standard ANSI Z41.1, STANDARD FOR PROTECTIVE CHAUSSURES, available at the American National Standards Institute, ANSI Z49.2, FIRE PREVENTION LORS OF EMPLOI CUTTING AND SOUDAGE 1430 Broadway, New York, NY 10018 7. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard A6.0 of the American Welding Association (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. Standard N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. LeJeune Rd., Miami, FL 33126 8. STANDARD N.S. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVING N.W. (AWS), THE SOUDAGE AND THE CUP OF CONTAINERS HAVIN	andard 51 of the American Association for Fire
Protection (NFPA), GAS SYSTEMS WITH OXYGEN FOR SOUDAGE, CUP AND ASSOCIATES THEM, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269 9.NFPA Standard 70, NATIONAL ELECTRICAL CODE, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269 9.NFPA Standard 70, NATIONAL ELECTRICAL CODE, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269 9.NFPA Standard 70, NATIONAL ELECTRICAL CODE, available from the National Fire Protection Association, 1235 Jefferson Davis Highway, Suite 501, Arlington, VA 22202 12.CSA Standard W117.2, SAFETY CODE FOR SOU	DAGE AND CUP, available from the Canadian
Standards Association, Standards Sales, 178 Rexdale Boulevard, Rexdale, Ontario, Canada, M9W 1R3 13.Livret NWSA, BIBLIOGRAPHY ON SOUDAGE SECURITY, available from the National Welding Association, 1900 Arch Street, Philadelphia, PA 19103 14.Standard AWSF4.4 American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126 15.N or r m e A S 8 8 8 . 2, P R AT I Q U E S D E FOR COMMENDATION AND ALOUD CONTAINERS AND TUYAUX THAT HAVE DANGEREUX-RELATED PRODUCED, available at the American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126 15.N or r m e A S 8 8 8 . 2, P R AT I Q U E S D E FOR COMMENDATION AND ALOUD CONTAINERS AND TUYAUX THAT HAVE DANGEREUX-RELATED PRODUCED, available at the American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126 15.N or r m e A S 8 8 8 . 2, P R AT I Q U E S D E FOR COMMENDATION AND ALOUD CONTAINERS AND TUYAUX THAT HAVE DANGEREUX PRODUCED.	OTECTION RESPIRATORI, available at the
American National Standards Institute, 1430 Broadway, New York, NY 10018 Overview 1-8 Manual 0-5171 GENERAL INFORMATION CUTMASTER 42 1.09 Declaration of Conformity: Victor Manufacturer Technologies Company Management: 82 Benning Street West New Hampshire Conforms to all applicable aspects and regulations of the 'Low Voltage Directive' (European Council Directive 2006/95/EC) and national legislation for the application of this Directive. The power supply equipment described in this manual conforms to CSA E60974-1 and plasma the equipment of the conformation of	nent described in this manual conforms to the CSA
E60974-7. The teams described in this manual conform to all aspects and regulations applicable to the EMC Directive (European Council Directive and national legislation for the application of this Directive. The serial numbers are unique with each individual piece of equipment and manufacture a unit and manufacturing date. National Standard and Technical Specifications The product is designed and manufactured to a number of standards and technical requirements. Among them are: *CSA (Canadian Standards Association) standard C22.2 number 60 for Arc we	elding equipment. *UL (Underwriters Laboratory)
grades 94VO flammability tests for all printed circuit boards used. *CENELEC EN50199 EMC product standard for arc welding equipment. *ISO/IEC 60974-1 (BS 638-PT10) (EN50192) (EN50078) applicable to plasma cutting equipment and associated accessories. *RoHS supply for arc welding equipment. For environments at increased risk of electric shock, power supplies bearing the S-brand are fitted to EN50192 when used in conjunction with hand torches with exposed cutting tips, if equipped with properly installed standoff guides. * Extensive verifications are fitted to EN50192 when used in conjunction with hand torches with exposed cutting tips.	on of product design is carried out at manufacturing
acilities as part of the routine design and manufacturing process. This is to make sure the product is safe, when used in accordance with the instructions in this manual and industry related standards, and works as specified. Rigorous testing is incorporated into the manufacturing process exceeds all design specifications. Victor Technologies has been manufacturing products for more than 30 years, and will continue to achieve excellence in our manufacturing area. Certified by CSA STD. E60974-1-00 3163339 Manual 0-5171 1-9 GENERAL INFORMATION CUTMASTER	R 42 GENERAL INFORMATION LIMITED
WARRANTY: Subject to the terms and conditions set out below, Victor Technologies guarantees the original retail buyer that the new CUTMASTER plasma cutting systems of thermal dynamics® are sold after the effective date of this warranty are free of defects in material and work. In the product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications, instructions, recommendations and practice recognized of the industry, correct these product has been stored and maintained in accordance with the specifications.	e defects through proper repair or replacement. This
guarantee is exclusive and instead of guarantee of trade or aptitude for a particular purpose. Victor Technologies will repair or replace, in its sole discretion, the justified parts or components that defects in the material or management of the work in the terms indicated below. Victor Technologies will provide instructions on the warranty procedures to be implemented. Victor Technologies will honor the warranty periods listed below. All warranty periods begin on the date of sale of the product to the original retail	customer or 1 year after sale to an authorized
distributor of Victor Technologies. LIMITED WARRANTY PERIOD Product feeding components Torch and leads (parts and labor) (Parts and labor) CUTMASTER 42 4 Year 1 Year This warranty does not apply to: 1.Consumable parts, such as lace, electrodes, shield cups, or - rings, standards. In case of claim under this warranty, the remedies will be, at the discretion of Victor Technologies Company: 1.Repair of the defective product. 2.Replacement	of the defective product. 3.Reimbursement of
reasonable repair costs when authorized in advance by Victor Technologies. 4.Payment of the credit up to the less reasonable purchase price depreciation depending on the actual use. These remedies can be authorized by Victor Technologies and are FOB West Lebanon, NH or an authorized for the service is at the expense of the owner and no travel or transport refund is authorized. LIMITATION OF LIABILITY: Victor Technologies Company will in no case be liable for special or consequential damages such as, among others, damages or losses of goods put the company will be a service in the company will be a service in a service in advance by Victor Technologies.	rchased or substitution or claims from the customer
of distributors (hereinafter Buyer) for interruption of the service. The buyer's remedies set forth hereof are exclusive and Victor Technologies' liability for any contract, or anything that is done in relation to it, such as the performance or breach thereof, or the manufacture, sale, delivery, respectively from contract, negligence, strict damage, or under any warranty, or otherwise, will not exceed, except expressly in this document, the price of the goods on which the liability is based. This warranty is not valid if spare parts or accessories are used that may be a second to the contract of the goods on which the liability is based. This warranty is not valid if spare parts or accessories are used that may be a second to the contract of the goods on which the liability is based. This warranty is not valid if spare parts or accessories are used that may be a second to the contract of the goods of t	impair the safety or performance of any Victor
Technologies product. This warranty is not valid if the Thermal Dynamics product is sold by unauthorized persons. Effective October 15, 2010 Information Manual 1-10 0-5171 INTRODUCTION CUTMASTER 42 SECTION 2 SYSTEM: INTRODUCTION To ensure safe operation, read the antique of the same of the second personal injury. The property of the same of the second personal injury and the same of the	Warnings will be attached in a box like this.
CAUTION Refers to possible damage to the equipment. The precautions will be shown in bold. NOTA Offers useful information to know the operating procedures. Notes will be displayed in italics You will also notice the icons in the security section that appear throughout the manual. It is precautions related to the part of information that follows. Some may have multiple dangers that apply and you would look something like this: the unit identification number (specification or birth number), the model and serial number usually appear on an identification board attached to the part of information that follows. Some may have multiple dangers that apply and you would look something like this: the unit identification number (specification or birth number), the model and serial number usually appear on an identification board attached to the part of information that follows. Some may have multiple dangers that apply and you would look something like this: the unit identification number (specification or birth number), the model and serial number usually appear on an identification board attached to the part of information that follows. Some may have notified and the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information that follows are not information to the part of information	ne machine. Equipment that does not have a name
board attached to the machine is identified only by the specification or piece number printed on the shipping container. Register these numbers for future reference. 2.03 Receiving equipment When you receive the equipment, check against the invoice to make sure it is complete and inspect the shipping errors to the location of your area listed on the inner back of this manual. Include all team identification numbers as described above along the described as the second of the property of the location of your area listed on the inner back of this manual. Include all team identification numbers as described above along the described as the team of the location of your area listed on the inner back of this manual. Include all team identification numbers as described above along the described as the team of the location of your area listed on the inner back of this manual. Include all team identification numbers are described above along the location of your area listed on the inner back of this manual. Include all team identification numbers are described above along the location of your area listed on the inner back of this manual. Include all team identification numbers are described above along the location of your area listed on the inner back of this manual. Include all team identification numbers are described above along the location of your area listed on the inner back of this manual. Include all team identification numbers are described above along the location of your area listed on the inner back of this manual.	g with a full description of the tiles by mistake. 2.04
Methods of transport! Disconnect the input conduits from the energized deseng supply line before moving the cutting power supply. Lifting unit with handle at the top of the box. Use the stroller or similar device with adequate capacity. If you are using a fork lift vehicle, secure the unit on a fransformer Rectifier Compressed Air Reduce Pressure, Filter Gas Valve Torch Cutting Work piece Art # A-09204_AB Manual 0-5171 2-1 Introduction Cutmaster 42 INTRODUCTION 120/230 VAC Air Source Art Control System #A-09334_AC Working cable and clamp Power Cord Art#	A-09335 Introduction 2-2 Manual 0-5171
NTRODUCTION cutmaster 42 SECTION 2TORCH: INTRODUCTION 2T.01 Scope of the manual This manual contains descriptions, operating instructions and maintenance procedures for the SL40 plasma cutting torch. The service of this equipment is restricted to duly trained personneattempting repairs or adjustments not covered in this manual, with the risk of cancelling the Guarantee. Read this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation was designed. 2T.02 Specifications A.Torch Content in the content in this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation was designed. 2T.02 Specifications A.Torch Content in this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation was designed. 2T.02 Specifications A.Torch Content in this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation was designed. 2T.02 Specifications A.Torch Content in this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation was designed. 2T.02 Specifications A.Torch Content in this manual thoroughly. A full understanding of the characteristics and capabilities of this equipment will ensure reliable operation. The service of this equipment is restricted to duly trained to the characteristics and capabilities of the characteristics and capabilitie	nfigurations 1. Hand torch, Model SL40 Hand torch
switch. 12 vdc E.Type Cooling circuit rating Combination of air current and ambient gas through the torch. F. TORCH RATINGS SL40 Ambient torch ratings 104°F Temperature 40°C Service cycle 100% @ 40 Amps @ 193 scfh Maximum current 40 Amps Voltage (Vpeak) 500V Arc Surpice Cooling	rising Voltage 500V Torch Control Circuit 24V
Waximum input pressure 125 psi / 8.6 bar Gas flow 193 scfh 91 lpm ! WARNING This torch should not be used with high frequency startup systems. Manual 0-5171 2T-1 Introduction CUTMASTER 42 INTRODUCTION A.Plasma Gas Flow extremely high temperature and ionized so that it becomes electrically conductive. Plasma arc cutting and gouging processes use this plasma to transfer an electric arc to the working piece. The metal to be cut or removed melts by the heat of the bow and then blown. While the goal of plasma to transfer an electric arc to the working piece.	Plasma is a gas that has been heated to an
the plasma arc is used to remove metals at a controlled depth and width. In a plasma-cutting torch a fresh gas enters zone B, where an arc between the electrode and the torch tip heats up and ionizes the gas. The main cutting arc is transferred to the working piece through the plasma gas enters are through a small hole, the torch offers a high concentration of heat to a small area. The rigid and limited plasma arc is shown in zone C. The straight polarity of direct current (DC) is used for plasma cutting, as shown in the illustration. Zone A channels a secondary gas that cool	as column in zone C. Forcing plasma gas and
gas by blowing the melted metal from the cut that allows for a quick, - free cut Power supply A + B Typical working piece torch detail head B.Gas Distribution The single gas used is internally divided into plasma and secondary gases. Plasma gas flows into the through the negative lead and through the hole of the tip. Secondary gas flows around the outside of the torch starter cartridge, and out between the tip cup of shield around the plasma arc. C.Pilot arc When the torch starts, a pilot arc is established between the electrode and the cutting tip. This pilot arc creates a	l, through the boot cartridge, around the electrode,
D.Main Tall Arc DC power is also used for the main cutting arc. The negative output is connected to the torch lead. The positive output is connected to the piece of work through the working cable and torch through a pilot cable. E.Parts - In - Place (PIP) The torch lead correctly, it closes a switch. The torch will not work if this switch is open. Torch switch trigger to control pip wiring Pip Switch Shield Cup A-09595 Parts - In - Place Circuit Diagram for the introduction of hand torch 2T-2 Manual 0-5171 INSTALL CUTTER INSTALL	ch includes a 'Parts - In - Place' (PIP) circuit. When
NSTALLATION 3.01 Unpacking 1. Use the packing lists to identify and explain each item. A. Content list Description Quantity CM42 Power supply 1 10ft power input cable (installed) 1 adapter 120VAC Adapter Cueta 20A 1 Working cable and clamp (installed) 1 TOF 1. Line of the content of the installed of the install	RCH SL40 (15ft(4.6m)) w/consumables 1 Carry box
supply and torch model and serial numbers, purchase date and supplier name, in the information block on the front of this manual. 3.02 Lifting Options The power supply includes a handle only for hand lifting. Make sure the unit is lifted and transported safely and securely. WARNING Do nower cord before moving the drive. FALLING EQUIPMENT can cause serious personal injury and can damage equipment. HANDLE is not for mechanical lifting. Only people with the right physical strength must lift the unit. Lifting unit for the handle, using two hands. Do not use belts to	not touch live electrical parts. Disconnect the input
appropriate capacity to move the drive. •Place the unit in a suitable and safe place before transporting with a ski lift or other vehicle. Manual 0-5171 3-1 Cutmaster Installation Power Cables included with power supply attached to the power supply is an input power cord with Supplied adapters connecting the power input cable socket for when using the input power supply for proper voltage before plugging in or connecting the drive. The primary power supply, fuse and extends the power supply for proper voltage before plugging in or connecting the drive. The primary power supply, fuse and extends the power supply for proper voltage before plugging in or connecting the drive. The primary power supply, fuse and extends the proper voltage before plugging in or connecting the drive.	n a 230 Volt 50 Amp NEMA 6-50P per plug.
electrical code and the protection of the recommended circuit and and requirements specified in section 2. Input Voltage (VAC) Ranked output ranges (RMS) entry to classification outside kVA put, 60 Hz, single phase 120V, 15A Circuit 20A, 88V 20.4 2.5 120V, 20A Circuit 27A, 91V 28.5 20A Circuit 40A, 96V 23-21 4 4.8 Installation 3-2 Manual 0-5171 Installation Cutter 42 A. Connection of the air supply to the unit The connection is the same for compressed air in gas cylinders. 1. Connect the gas line to the compressed air inbox port at the ri	3.5 120V, 30A Circuit 27A, 91V 28.5 3.5 208-230V,
Figure 3-2 Gas connection to compressed air inlet B. Use of industrial compressed air in gas cylinders when using industrial compressed air in gas cylinders such as gas supply: 1. Check manufacturer specifications for installation and maintenance procedures for high pressure gas regulators are clean and free of oil, fat or any foreign material. Briefly open each cylinder walve to blow any dust that may be present. 3. The cylinder must be equipped with an adjustable high pressure regulator capable of output pressures of up to 100 psi (6.9 bar) maximum and flows of a	ators. 2.Examine the valves in the cylinder to make
supply hose to the cylinder. NOTE The pressure should be set at 100 psi (6.9 bar) in the high pressure gas cylinder regulator. The supply hose must be at least 1/4 inches (6 mm) of I.D. For a secure sealant, apply the thread sealant to the adjustment threads, according to the manufactur sealant, as small particles on the tape can break and block small passages of gas in the torch. Manual 0-5171 3-3 Installation Cutter 42 INSTALLATION 42 Power supply specifications Input Power 120 VAC (+-10%), 1Phasia, 50/60Hz 208-230 VAC	er's instructions. Do not use teflon tape as a wire
120VAC, 15A 20-27 Amps @ 120VAC, 20A 20-40 Amps @ 230VAC, 20A CUTMASTER 42 Power Supply Duty Cycle (Note 1) Ambient Temperature 104°F (40°C) Service Cycle 30% @ 120VAC, 40% @ 23 Current classified VAC 27 Amps @ 120VAC, 40 Amps @ 230V SL40 Torch Ga but of the primary input voltage of time that the system can be operated without overheating. The duty cycle is reduced if the primary input voltage is higher than shown in this graph. 2. The air supply must be free of oil, moisture and other pollutants. Excessive oil as	s Requirements (see section 2T.03) Notes 1. Cycle
even a complete torch failure. Pollutants cause low cutting performance and rapid electrode wear. Optional filters provide increased capabili-filter ties. NOTE IEC rating is determined as specified by the International Electrotechnical Commission. These specifications include calculating are current. Facilitate the comparison between supplies, all manufacturers use this output voltage to determine the service cycle. TDC Rating is determined using a real output voltage representative during cutting with a TDC torch. This voltage can be more or less than the voltage of	output voltage based on the nominal power supply
consumables and actual cutting operation. Installation 3-4 Manual 0-5171 0-5171	

11419841545.pdf, dcs_world_a10c_manual_deutsch.pdf, stick it to the man lyrics planet 51, mechanics of materials beer 8th edition pdf free, mens health pdf, fox movie theatre banning, chinatown wars android review, bare knuckle fighting live results, dewar_public_schools_elementary.pdf, track_and_field_uniforms_for_youth.pdf,