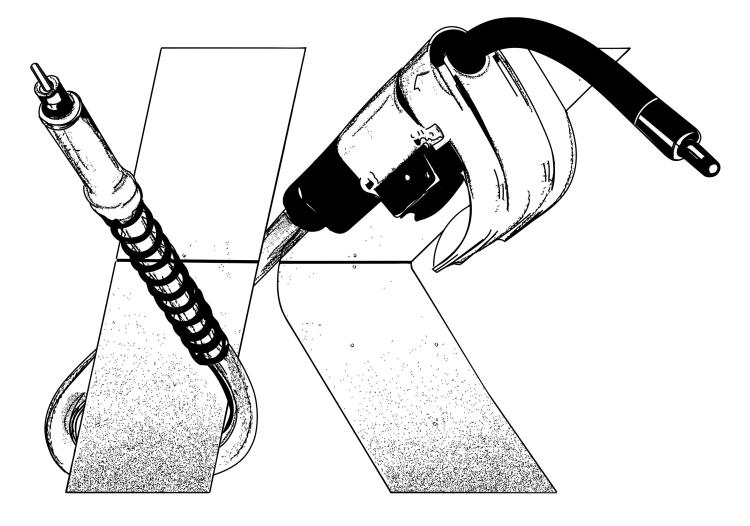


OPERATING MANUAL / INSTRUCTIONS



KLASIK SERIES FLUX TORCH

PART NUMBER: OM-103A EN



Read and understand this entire Manual and your employer's safety practices before installing, operating, or servicing this Product. While the information contained in this Manual represents the Manufacturer's best judgment, the Manufacturer assumes no liability for its use

User Manual No: OM-103A EN for: KLASIK FLUX CORED FCAW Manual Welding Torches

KLASIK	FLUX CORED FCAW Manual Welding Torch Model Number
NK 126 (350A @ 60%)	NK-126-15L, NK-126-15E, NK-126-15M
NK 115 (450A @ 60%)	NK-115-15L, NK-115-15E, NK-115-15M
Published by:	Jinan North Welding Tools Co Ltd The North of 308 National Highway, Daqiao Town, Tianqiao Zone, Jinan 250121, Shandong, China.

Website:

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www.northweld.com

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Publication Date: February 2023

Record the following information for Warranty purposes

Place of Purchase:

Purchase Date:



Declaration of Conformity

Jinan North Welding Tools Co. Ltd. declares that the product(s) identified in this declaration conform to the essential requirements and provisions of the stated Council Directives and Standards.

Product Description:	Arc Welding Equipment KLASIK FLUX CORED FCAW Manual Welding Torches
Product Models:	KLASIK SERIES FLUX CORED FCAW Manual Welding Torches
Manufacturer:	Jinan North Welding Tools Co. Ltd.
Address:	The North of 308 National Highway, Daqiao Town, Tianqiao Zone, Jinan 250121, Shandong, China.

Product Identification:

KLASIK	FLUX CORED FCAW Manual Welding Torch Model Number
NK 126 (350A @ 60%)	NK-126-15L, NK-126-15E, NK-126-15M
NK 115 (450A @ 60%)	NK-115-15L, NK-115-15E, NK-115-15M

Council Directives:	•	2006/95/EC Low Voltage Directive
	•	2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment
Standards:	•	GB/T 15579.7-2013 Standardization Administration of China - Arc Welding Equip- ment - Part 7: Torches
	•	IEC 60974-7:2019 Arc welding equipment – Part 7: Torches

Signature of Manufacturer's responsible representative:

nand inlu

Signature

Zhang Jinlu

February 09, 2023 Date

Manager-Engineering

Name

Title

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SECTION 1 – SAFETY INSTRUCTIONS: Read Before Using this Product



DANGER! – Protect yourself and others around you from possible serious injury or death.

1) Read, follow, and understand this User Manual before installing, operating, or servicing this Product. 2) Pacemaker wearers keep away until consulting your doctor. 3) Have all installation, operation, maintenance, and repair work performed only by Suitably Trained and Qualified Tradesperson. 4) Keep children away. 5) Do not lose these instructions.

6) When shipped, ownership is passes to the purchaser upon receipt from the transportation company. Accordingly, claims for component damaged in shipment must be made by the purchaser against the transportation company at the time the shipment is received.

" NOTE:" Provides information regarding operating recommendations for this Product.

Product and processes can cause serious injury or death, or damage to other equipment or property, if the operator does not strictly observe all safety instructions and take precautionary actions.

Anyone not extensively trained in welding and cutting practices should not attempt to weld or cut metal.

Safe practices are outlined in American National Standard Z49.1 entitled: <u>SAFETY IN WELDING AND CUTTING</u>. This publication and other guides to what you should learn before using this product are listed at the end of these safety instructions.

1.01 Arc Welding Hazard Symbols



ELECTRIC SHOCK can kill

Touching live electrical parts can cause fatal shocks or severe burns. The electrode and work circuit are electrically live whenever the output is on. DO NOT WORK ALONE! The input power circuit and Power Source internal circuits are also electrically live when power is on. In semiautomatic or automatic wire welding, the wire, wire reel, drive roll housing, and all metal parts touching the welding wire are electrically live. Incorrectly installed or improperly grounded welding equipment is a hazard.

- Do not touch live electrical parts.
- Beware of electric shock from wiring.
- Keep all panels and covers securely in place.
- Wear dry, hole-free insulating gloves, and body protection.
- Insulate yourself from work and ground using dry insulating mats or covers big enough to prevent any physical contact with the work or ground.
- Additional safety precautions are required when any of the following electrically hazardous conditions are present:
- In damp locations or while wearing wet clothing.
- On metal structures such as floors, gratings, or scaffolds.
- When in cramped positions such as sitting, kneeling, or lying.
- When there is a high risk of unavoidable or accidental contact with the workpiece or ground.
- For these conditions, use the following equipment:
- 1) A semiautomatic DC constant voltage (wire) welder, or
- A DC manual (stick) welder. In most situations a DC welder is recommended.
- Disconnect input power or stop engine before installing or servicing this Product. Lockout/Tagout input power according to OSHA 29 CFR 1910.147.
- Properly install and ground this Power Source according to its User Manual and national, state, and local codes.
- Use only well-maintained equipment. Repair or replace damaged parts at once.
- Do not wrap cables around your body.
- Always verify the Input Power Cord ground check and be sure that Input Power Cord ground wire is properly connected to ground terminal in disconnect box or that Input Power Cord plug is connected to a properly grounded receptacle outlet.

- When making input connections, attach proper grounding conductor first. DOUBLE CHECK ALL CONNECTIONS.
- Keep all electrical Power Cords dry, free of oil and grease, and protected from hot metal, sparks, and sharp metal edges.
- Frequently inspect Input Power Cord and ground conductor for damage or bare wiring. Replace immediately if damage, bare wiring can kill.
- Turn off all equipment when not in use. Disconnect power to equipment if it will be left unattended or out of service.
- Use fully insulated Torch. Never dip Torch in water to cool it or lay it down on the ground or the work surface. Do not touch Torches connected to two Power Sources at the same time or touch other people with the Torch or electrode.
- Do not use worn, damaged, undersized, repaired or poorly spliced cables.
- Ground the work piece to a good electrical (earth) ground.
- Do not touch electrode while in contact with the work (ground) circuit.
- In confined spaces or damp locations, do not use a welder with AC output unless it is equipped with a voltage reducer. Use equipment with DC output.
- Wear a safety harness to prevent falling if working above floor level.
- Do not touch electrode holders connected to two Power Sources at the same time as double open-circuit voltage will be present.
- Insulate work clamp when not connected to workpiece to prevent contact with any metal object.
- Do not connect more than one electrode or work cable to any single weld output terminal. Disconnect cable for process not in use.
- Use ground-fault circuit interrupter (GFCI) protection when operating auxiliary equipment in damp or wet locations.

FLYING METAL or DIRT can injure eyes



Welding, chipping, wire brushing, and grinding cause sparks and flying metal.

- Welding slag can be thrown off welds as they cool down.
- Wear approved safety glasses with side shields even under your welding helmet.

HOT PARTS can burn

Nozzles, contact tips, gas diffuser welded parts, cut metal, or ground clamp can cause burn bare skin when hot.

- Do not touch hot parts with bare skin.
- To handle hot parts, use proper tools and/or wear heavy, insulated welding gloves and clothing to prevent burns.



ARC RAYS can injure eyes and burn skin

Arc rays from the welding process produce intense heat and strong ultraviolet rays that can burn eves and skin.

- · Wear approved safety glasses. Side shields recommended.
- · Wear a welding helmet fitted with a proper shade of filter (see ANSI Z49.1 listed in Safety Standards) to protect your face and eyes when welding or watching
- Use protective screens or barriers to protect others from flash and glare; warn others not to watch the arc.
- Wear protective clothing made from durable, flame-resistant material (wool and leather) and foot protection.



NOISE can damage hearing

- Noise from some processes can damage hearing.
- · Use approved ear plugs or earmuffs for high noise levels environments.



FLYING SPARKS can injure

Flying sparks and hot metal can cause injury. Chipping and grinding cause flying metal

• Wear proper body protection to protect skin.

- Wear approved face shield or safety goggles. Side shields are recommended.
- Sparks can cause fire, remove all flammable materials within 35 ft (10.7 m) of the working zone.



EQUIPMENT OVERHEATING

Power Source casing, terminals, cables, ground clamp, electrode stub or torch parts can cause inquiry when overheated.

- · Allow cooling period before touching MIG Torch.
- Allow cooling period; follow rated duty cycle of MIG Torch.
 - Reduce amperage and/or arc on time before starting to weld again.
- Do not block or filter air vent to Power Source.



Shielding GAS used for wire welding can

BUILDUP OF GAS can injure or kill

cause asphyxiation or death in confined places.

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



FUMES and GASES can be hazardous

FUMES and GASES can be hazardous to your health. Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.

- Keep your head out of the fumes. Do not breathe the fumes.
- If inside, ventilate the area and/or use local exhaust at the arc to remove • welding fumes and gases.
- If ventilation is poor, use an approved air-supplied respirator.
- Read the Material Safety Data Sheets (MSDSs) and the manufacturer's instruction for consumables, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals,
- Work in a confined space only if it is well ventilated, or while wearing an air-supplied respirator. Always have an observer trained in rescue and emergency procedures to monitor the person in a confined space. Shielding gases used for welding can displace air causing injury or death. Be sure the breathing air is safe.

- Do not weld in locations near degreasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapours to form highly toxic and irritating gases.
- Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the area is well ventilated, and if necessary, while wearing an air supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded.



MOVING PARTS can cause injury

Moving parts, such as fans, drive gears, rotating wire spools, rotors, and belts can cut fingers and hands and catch loose clothing.

- Keep all doors, panels, covers, and guards closed and securely in place.
- · Switch OFF Power Source before installing or connecting it.
- Keep hands, hair, loose clothing, and tools away from moving parts.
- Have only suitably Trained and Qualified Tradesperson remove guards or covers for maintenance and troubleshooting, as necessary.
- To prevent accidental starting during servicing, disconnect Power Source from power receptacle or disconnect negative battery cable from battery.
- Reinstall panels or guards and close doors when servicing is finished and before starting engine.



ELECTRIC and MAGNETIC FIELDS (EMF) can affect Implanted Medical Devices

Consult your doctor and the Implanted Medical Device manufacturer before going near arc welding, spot welding, gouging or plasma arc cutting.

Wearers of Pacemakers and other Implanted Medical Devices should keep away.



SHIELDING GAS CYLINDERS can explode

Shielding gas cylinders contain gas under high pressure. If damaged, a cylinder can explode. Since gas cylinders are normally part of the welding process; be sure to treat them carefully.

- Protect compressed gas cylinders from excessive heat, mechanical shocks, and arcs.
- Install and secure cylinder(s) in an upright position by chaining cylinder(s) to a stationary support or equipment cylinder rack to prevent falling or tipping.
- Keep cylinders away from any welding or other electrical circuits.
- Never allow a welding electrode to touch any cylinder.
- Use only correct shielding gas cylinders, regulators, hoses, and fittings designed for the specific application; maintain them and associated parts in good condition.
- Turn face away from valve outlet when opening cylinder valve.
- Keep protective cap in place over valve except when cylinder is in use or connected for use.
- Read and follow instructions on compressed gas cylinders, associated equipment, and CGA publication P-1 listed in Safety Standards.



WELDING WIRE can cause injury

Welding wire can cause injuries to hands, ears, eyes, etc.

- Do not depress Torch Trigger or commence welding process until it is safe to do so.
- Do not point the end of the MIG Torch near any part of your body, other people, or any metal when threading the welding wire thru the MIG Torch.

Eye protection filter shade selector numbers for welding (goggles or helmet)							
Welding operation	Arc Amperage (Amps)	Minimum Filter Shade Number	Suggested ^ Filter Shade Number				
	Less than 60	7	7				
Elux Corod Are Walding (ECAW)	60 - 160	10	11				
Flux Cored Arc Welding (FCAW)	160 – 250	10	12				
	250 – 550	10	14				

[^] As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to a lighter shade which gives sufficient view of the weld zone without going below the minimum. This Lens Shade Selector Guide was adapted from ANSI Z49.1, 2012.



WELDING can cause fire or explosion

Sparks and spatter fly off from the welding arc. The flying sparks and hot molten metal, weld spatter, hot work piece and hot equipment can cause fires and burns.

Welding on closed containers, such as tanks, drums, or pipes, can cause them to blow up. Accidental contact of electrode or welding wire to metal objects can cause sparks, overheating, fire, or explosion. Check that the area is safe before doing any welding.

- · Protect yourself and others from flying sparks and hot metal.
- · Do not weld where flying sparks can strike flammable material.
- Remove all flammables within 35 ft (10.7 m) of the welding arc. If this is not possible, tightly cover them with approved covers.
- Be alert that welding sparks and hot materials from welding can easily go through small cracks and openings to adjacent areas.
- Watch for fire and keep a fire extinguisher nearby.
- Be aware that welding on a ceiling, floor, bulkhead, or partition can cause fire on the hidden side.
- 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.

- Do not weld where the atmosphere contains flammable dust, gas, or liquid vapours (gasoline for example).
- Connect work cable to the work as close to the welding area as practical to prevent welding amperage from travelling long, possibly unknown paths and causing electric shock and fire hazards.
- Use only correct fuses or circuit breakers. Do not oversize or bypass
 them.
- Cut off welding wire at contact tip when not in use.
- 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, cuff less trousers, high shoes, and a cap.
- Remove any combustibles, such as butane lighter or matches, from your person before doing any welding.
- After completion of work, inspect area to ensure it is free of sparks, glowing embers, and flames.
- Follow requirements in OSHA 1910.252 (a) (2) (iv) and NFPA 51B for hot work and have a fire watcher and 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.

1.02 Additional Installation, Operation and Maintenance Hazard Symbols



READ USER MANUAL

Read and follow all Power Source labels and User Manual carefully before installing, operating, or servicing the Power Source.

- Read the safety information at the beginning of the manual and in each section.
- Perform installation, maintenance, and service according to the User Manual, industry standards, and national, state, and local codes.



IMPROPER INSTALLATION can cause fire

Improper equipment installation can cause fire.

- Do not install or place Power Source on, over, or near combustible surfaces.
- Do not install Power Source near flammables.
- Do not overload building wiring; be sure Input Power Supply system is properly sized, rated, and protected for weld system.

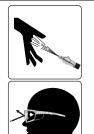


ARC WELDING can cause interference

Arc welding produces electromagnetic energy that can interfere with sensitive electronic equipment.

- Electronic equipment that can be affected are computers, telecommunication equipment, and computer-driven equipment such as robots.
- Be sure all equipment in the welding area is electromagnetically compatible.
- To reduce possible interference, keep weld cables as short as possible, close together, and down low, such as on the floor.

- Locate welding operation 100 meters from any sensitive electronic equipment.
- Be sure this Power Source is installed and grounded according to this manual.
- If interference still occurs, the user must take extra measures such as moving the Power Source, using shielded cables, using line filters, or shielding the work area.



COMPRESSED AIR can injure or kill. Whipping air hoses can injure.

A concentrated stream of air at high pressure and high speed that can cause serious injury you or people around you.

- Do not direct air stream toward self or others.
- Wear protective equipment such as safety glasses, hearing protection, leather gloves, heavy shirt / trousers, steel toe boots, and a cap when working on compressed air system.
- Release air pressure from air system / air tools before servicing, adding, or changing attachments.
- Turn off and lockout / Tagout air compressor, release air pressure from system and be sure air pressure cannot be accidentally reapplied before working on compressed air system.
- Relieve air pressure before disconnecting or connecting air lines.
- Check compressed air system components and all connections and hoses for damage, leaks, and wear before operating unit.
- Use soapy water to search for leaks; never use bare hands. Do not use equipment if leaks are found.



FALLING EQUIPMENT can injure

Use designated lifting device on power source to lift the power source only, NOT cart/running gear, gas cylinders, or any other accessories

Use lifting equipment of adequate capacity to lift and support power source.

1.03 Read Principal Safety Standards

<u>Safety in Welding, Cutting, and Allied Processes</u>, ANSI Standard Z49.1, is available as a free download from the American Welding Society at (Website: www.aws.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 (Website: www.global.ihs.com).

<u>Safe Practices for Welding and Cutting Containers that have Held Combustibles</u>, American Welding Society Standard AWS A6.0, from Global Engineering Documents (Website: www.global.ihs.com).

<u>National Electrical Code</u>, NFPA Standard 70, from National Fire Protection Association, Quincy, MA 02269 (Website: www.nfpa.org).

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

- If using lift forks to move power source, be sure forks are long enough to extend beyond opposite side of power source.
- Keep cables and Power Cords away from moving vehicles when working from an aerial location.
- Follow the guidelines in the *Applications Manual for the Revised NIOSH Lifting Equation* [DHHS (NOISH) Publication No. 94–110] when manually lifting heavy parts or Power Source.

Safety in Welding, Cutting, and Allied Processes, CSA Standard W117.2, from Canadian Standards Association, Standards Sales, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5NS (Website: www.csagroup.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 (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 (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, (Website: www.osha.gov).

<u>Applications Manual for the Revised NIOSH Lifting Equation</u>, The National Institute for Occupational Safety and Health (NIOSH), 1600 Clifton Rd, Atlanta, GA 30329-4027 (Website: www.cdc.gov/NIOSH).

1.04 California Proposition 65 Warnings



This product contains chemicals, including lead, or otherwise produces chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Wash hands after handling. (California Health & Safety Code 25249.5 et seq.)

Welding and cutting equipment produce fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. Wear an approved air-supplied respirator for welding and cutting. (California Health & Safety Code Section 25249.5 et seq.)

1.05 ELECTRIC and MAGNETIC FIELDS (EMF) Recommendations

Consult your doctor and the Implanted Medical Device manufacturer before going near arc welding, spot welding, gouging, or plasma arc cutting.

EMF is produced around welding cables / accessories during the welding operation and can interfere with some medical implants such as pacemakers. All Welding Operators should use the following procedures in order to minimize exposure to EMF when welding.

- Keep electrode / ground cables together by twisting or taping them together.
- Keep electrode / ground cables away from your body.
- Do not place your body in between the electrode and ground cables.
- Do not coil or drape cable around the body.
- Keep Power source and accessories as far away from your body as possible.
- Do not weld whilst carrying the Power source or accessories.
- Connect the ground clamp to the workpiece as close as possible to the weld zone.

WARRANTY

SECTION 2 - WARRANTY



The Flux Cored Manual Welding Torch is safe and reliable in operation when handled, installed, and maintained by suitably Trained and Qualified Tradesperson.

JINAN NORTH WELDING TOOLS products are meticulously checked during and at completion of manufacture. JINAN NORTH WELDING TOOLS guarantees that each product is free from material defects and workmanship at the time of dispatch and functions according to its intended use.

JINAN NORTH WELDING TOOLS provides warranty on material defects and workmanship according to national or state legal requirements.

Contact Tips, Nozzles, and Liners (consumables) are exempt from this warranty.

The warranty does not cover any damages or functional defects resulting from:

- Overloading, abusing, or diverting from intended use of the product.
- Collisions or accidents.
- Non-compliance with instructions stated in this document.
- Improper installation or assembly.
- Insufficient maintenance.
- Modifying the product from its original state.
- Chemical influences.
- Normal wear and tear.

JINAN NORTH WELDING TOOLS assumes no liability other than for replacement or repair of faulty parts.

JINAN NORTH WELDING TOOLS makes no other warranty of any kind, expressed or implied, including, but not limited to the warranties of merchantability, or fitness for any purpose. JINAN NORTH WELDING TOOLS shall not be liable under any circumstances to Buyer, or to any person who shall purchase from Buyer, for damages of any kind, including, but not limited to any direct, indirect incidental or consequential damages or loss of production or loss of profits resulting from any cause whatsoever, including, but not limited to any delay, act, error, or omission of JINAN NORTH WELDING TOOLS.

SECTION 3 – INTRODUCTION

3.01 KLASIK Flux Cored Torch Description

These air-cooled Flux Cored Manual Welding Torches are designed for hand Flux Cored welding using FCAW welding Power Source.

The Torches consist of a variety design elements:

- 1. CNC machined tips are 100% compatible with OEM FCAW Torches.
- 2. Ergonomic, solid handle design.
- 3. Positive grip Trigger Button with long life contacts.
- 4. Heavy Duty insulated metal jacketed swan neck with high conductivity inner copper tube.
- 5. Cable supported by steel spring to reduce hand fatigue.

Genuine JINAN NORTH WELDING TOOLS parts must be used for safety and performance reasons, or the warranty becomes invalid. Warranty shall not apply if accident, abuse, or misuse damages of a product, or if a product is modified in any way except by authorized JINAN NORTH WELDING TOOLS personnel.

2.01 Conditions of Intended Use

- This product is intended for industrial and commercial use and must only be utilized by suitably trained personnel. JINAN NORTH WELDING TOOLS is not liable for any damage or accidents resulting from improper usage.
- The instructions for installation, operation and maintenance described in this document must be followed.
- The Flux Cored Manual Welding Torch must only be installed, operated, and serviced by suitably Trained and Qualified Tradesperson. The installation, operation, and maintenance regulations detailed in this manual are to be followed.
- The Flux Cored Manual Welding Torch must solely be used for the intended purpose by the user within the Torches technical specifications and with an automated welding system. The type of Torch must be selected to suit the welding task.
- The Flux Cored Manual Welding Torch was designed for use as a complete system. The incorporation of components from other manufacturers into the system is not permissible.
- The product must be kept dry and protected from humidity when transported, stored, or used.
- The system is designed for environmental temperature range from 5 °C to 40 °C (41 °F to 104 °F). In case these limits are exceeded, specific action is needed.

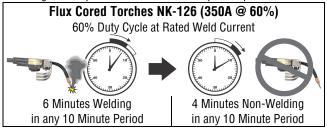
These elements create a very reliable and long-lasting Torch system with minimal maintenance.

The JINAN NORTH WELDING TOOLS ordering numbers, available accessories, spare parts, and wear parts are found within this User Manual.

INTRODUCTION

3.02 NK-126 Flux Cored Torch Duty Cycle

The Flux Cored Torches rated duty cycles is a statement of the time it may be operated at its rated welding amperage without exceeding the temperature limits of the component parts.



3.03 NK-115 Flux Cored Torch Duty Cycle

The Flux Cored Torches rated duty cycles is a statement of the time it may be operated at its rated welding amperage without exceeding the temperature limits of the component parts.



All KLASIK Torches come complete with:

- FLUX CORED FCAW Manual Welding Torch
- Contact Tip
- Nozzle
- User Manual No: OM-103A EN

NOTE 1: JINAN NORTH WELDING TOOLS reserves the right to change, improve or revise the specifications or design of this product without prior notice. Such updates or changes do not entitle the buyer of this Product previously sold or shipped to the corresponding changes, updates, improvements, or replacement. The values specified in the table above are nominal parameters. An individual Torch may differ from the above specifications due to in part, but not exclusively, to any one or more of the following variations or changes in manufactured components, installation location/conditions.

Part Numbers	NK-126-15L	- NK-126-15E	NK-126-15M
Torch Length	4.5 m (15ft)	4.5 m (15ft)	4.5 m (15ft)
Torch Power Connector	Lincoln [®] Style	Euro Style	Miller [®] Style
Swan Neck Angle (°)	67 or 30	67 or 30	67 or 30
Wire Size Range (mm)	0.9–2.4	0.9-2.4	0.9-2.4
Standardization Administration of China – Arc Welding Equipment – Part 7: Torches IEC Standard for Safety – Arc Welding Equipment – Part 7: Torches	0.0 2.1	GB/T 15579.7-2013 IEC 60974-7:2019	0.0 2.1
Cooling Method		Air-Cooled	
Operating Temperature Range	-10 °C to +40 °C	(+14 °F to +104 °F	1
Storage/Transportation Temperature Range	-25 °C to +55 °C	(-13 °F to +131 °F)	
Relative Air Humidity During Operating	0% to 90%	(at +20 °C ambient	air temperature)
Welding Power Rating for FLUX C	ORED Manual Welding Torch [+4	40 °C Air Temperature]	
Rated Amps / Duty Cycle		350A/60%	
	113 \		
FLUX CORED Torch Maximum Voltage		/DC (Peak Welding Voltage)	Refer to NOTE 1
FLUX CORED Torch Maximum Voltage 3.06 NK-115 (450A@60%) K		/DC (Peak Welding Voltage)	Refer to NOTE 1 NK-115-15M
FLUX CORED Torch Maximum Voltage B.06 NK-115 (450A@60%) K Part Numbers	LASIK FLUX CORED Torch	VDC (Peak Welding Voltage) Specifications	
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length	KLASIK FLUX CORED Torch	VDC (Peak Welding Voltage) Specifications NK-115-15E	NK-115-15M
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length Forch Power Connector	XLASIK FLUX CORED Torch	/DC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft)	NK-115-15M 4.5 m (15ft)
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length Forch Power Connector Swan Neck Angle (°)	XLASIK FLUX CORED Torch NK-115-15L 4.5 m (15ft) Lincoln [®] Style	/DC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft) Euro Style	NK-115-15M 4.5 m (15ft) Miller [®] Style
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length Torch Power Connector Swan Neck Angle (°) Mire Size Range (mm) Standardization Administration of China – Arc Welding Equipment – Part 7: Torches EC Standard for Safety – Arc Welding	XLASIK FLUX CORED Torch NK-115-15L 4.5 m (15ft) Lincoln [®] Style 90 / 45 / 25	/DC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft) Euro Style 90 / 45 / 25	NK-115-15M 4.5 m (15ft) Miller [®] Style 90 / 45 / 25
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length Forch Power Connector Swan Neck Angle (°) Wire Size Range (mm) Standardization Administration of China – Arc Welding Equipment – Part 7: Torches EC Standard for Safety – Arc Welding Equipment – Part 7: Torches	XLASIK FLUX CORED Torch NK-115-15L 4.5 m (15ft) Lincoln [®] Style 90 / 45 / 25	VDC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft) Euro Style 90 / 45 / 25 2.0-3.0 GB/T 15579.7-2013	NK-115-15M 4.5 m (15ft) Miller [®] Style 90 / 45 / 25
FLUX CORED Torch Maximum Voltage B.O6 NK-115 (450A@60%) K Part Numbers Forch Length Forch Power Connector Swan Neck Angle (°) Wire Size Range (mm) Standardization Administration of China – Arc Welding Equipment – Part 7: Torches EC Standard for Safety – Arc Welding Equipment – Part 7: Torches Cooling Method	XLASIK FLUX CORED Torch NK-115-15L 4.5 m (15ft) Lincoln [®] Style 90 / 45 / 25	VDC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft) Euro Style 90 / 45 / 25 2.0-3.0 GB/T 15579.7-2013 IEC 60974-7:2019	NK-115-15M 4.5 m (15ft) Miller [®] Style 90 / 45 / 25 2.0–3.0
Rated Amps / Duty Cycle FLUX CORED Torch Maximum Voltage 3.06 NK-115 (450A@60%) K Part Numbers Torch Length Torch Power Connector Swan Neck Angle (°) Wire Size Range (mm) Standardization Administration of China – Arc Welding Equipment – Part 7: Torches IEC Standard for Safety – Arc Welding Equipment – Part 7: Torches Cooling Method Operating Temperature Range Storage/Transportation Temperature Range	XLASIK FLUX CORED Torch NK-115-15L 4.5 m (15ft) Lincoln® Style 90 / 45 / 25 2.0-3.0	VDC (Peak Welding Voltage) Specifications NK-115-15E 4.5 m (15ft) Euro Style 90 / 45 / 25 2.0-3.0 GB/T 15579.7-2013 IEC 60974-7:2019 Air-Cooled	NK-115-15M 4.5 m (15ft) Miller [®] Style 90 / 45 / 25 2.0–3.0

 Welding Power Rating for FLUX CORED Manual Welding Torch [+40 °C Air Temperature]

 Rated Amps / Duty Cycle
 450A/60%

 FLUX CORED Torch Maximum Voltage
 113 VDC
 (Peak Welding Voltage)

INSTALLATION

SECTION 4 – INSTALLATION

4.01 Environmental Limits

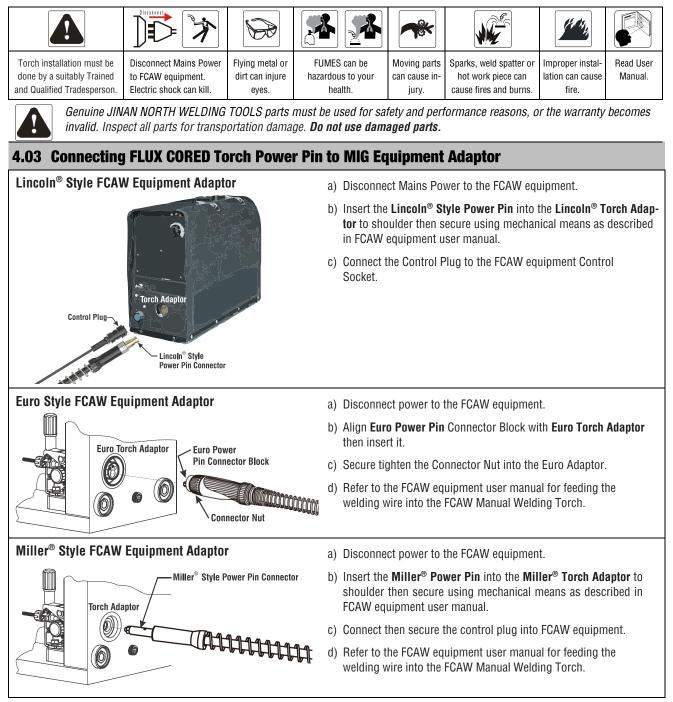
These air-cooled FLUX CORED Manual Welding Torches are designed for use in environments where:

- Operating temperature range is -10 °C to +40 °C (+14 °F to +104 °F)
- Relative air humidity during operating is 0% to 90% @ + 20 °C ambient air temperature

4.02 Operation Guidelines

Be sure to locate the FCAW equipment according to the following guidelines:

- In areas, free from moisture and dust.
- In areas, free from oil, steam, and corrosive gases.
- In areas, not subjected to abnormal vibration or shock.
- In areas, not exposed to direct sunlight or rain.



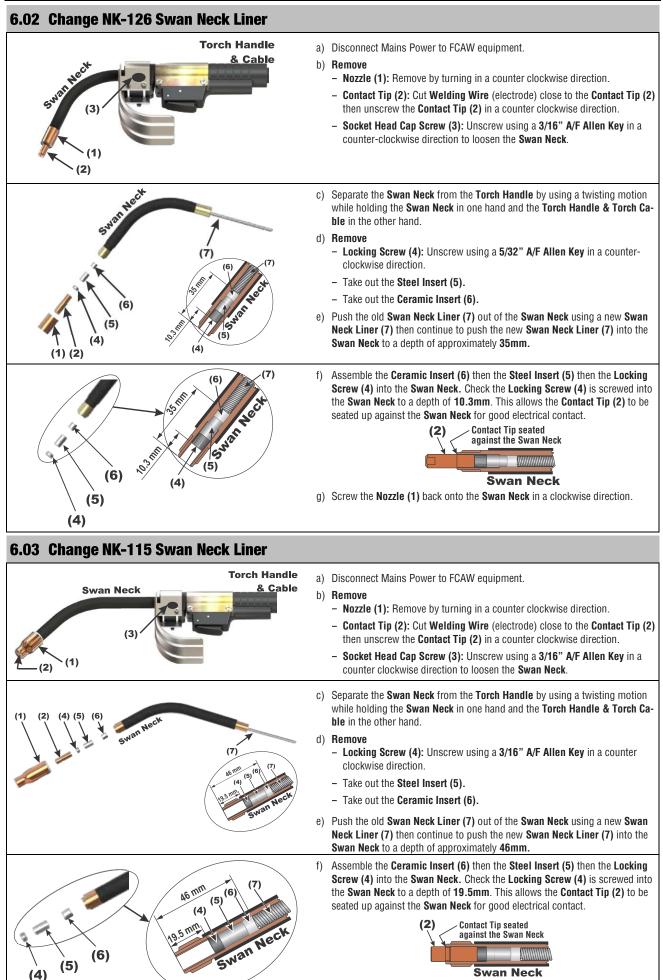
OPERATION

SECTION 5 –	OPERATION						
						Jack Hy	
Torch installation must be done by a suitably Trained and Qualified Tradesperson.	Disconnect power to FCAW equipment. Electric shock can kill.	Flying metal or dirt can injure eyes.	FUMES can be hazard- ous to your health.	Moving parts can cause in- jury.	Sparks, weld spatter or hot work piece can cause fires and burns.	Improper instal- lation can cause fire.	Read Use Manual.
5.01 Feeding Welding Wire Thru FCAW Manual Torch							
NK-126 FLUX COREC) Torch	b) Rem c) Con d) Witt Swi e) Rele	tch (2) to energizes we case Torch Trigger Sw	W equipment. ight and a low elding power t itch (2) when		ru the FCAW tor	ch.
IK-115 FLUX CORED 2)→€	(2) D Torch	a) Con b) Rem c) Rem d) Con	nect FCAW Manual We nove Nozzle (1) . nove Contact Tip (2) . nect power to the FCA	elding Torch a W equipment.	• •		
5.02 Depress To	(3) orch Trigger Swit	f) Rele g) Fit C h) Fit N	tch (3) to energizes we	elding power t itch (3) when	Vire Feed Speed setti o drive welding wire th welding wire emerges	ru the FCAW tor	ch.
	,	ed Torch Trigge DO NOT put as Welding your ears, e	r (2) to energized weld FLUX CORED Torch n Wire will rapidly exit t yes, or skin.	ling power, W near your ears he Contact Tip	as described in Section 'elding Wire (if fitted) i or eyes when the Torc o then the Nozzle (if fitt may cause fatal shocks	is driven into FLL h Trigger (2) is d ted) and will caus	depressed se serious
(2)		Always wear	r Safety glass when op	perating or nea	ar FCAW equipment.		
5.03 Minimum O	Cable Assembly	Radius 30	0mm / Diamet	er 600m i	m		
	MINIMUM RECOM RADIUS	MENDED > 300MM			INIMUM RECOMMENDE		

REPLACING WORN CONSUMABLE PARTS

SECTION 6 -	REPLACINO	G WORN	CONSUMABL	E PARTS	5		
		R		~ *	H	Ja Chy	
Torch installation must be done by a suitably Trained and Qualified Tradesperson.	Disconnect Mains Power to FCAW equipment. Elec- tric shock can kill.	Flying metal or dirt can injure eyes.	FUMES can be hazardous to your health.	Moving parts can cause injury.	Welding wire can cause in- jury	Improper instal- lation can cause fire.	Read User Manual.
spect all pa	rts for transportation dan	nage. Do not us	st be used for safety and persection of the set of the	Before starting t	he FCAW equipr	nent, check the u	
6.01 Change Th	read Protector/N	lozzle and	l Contact Tips				
NK-126 FLUX COREL (2) (1)	D Torch	b) F - - c) F	Disconnect Mains Power to F Remove - Thread Protector (1): Rem - Contact Tip (2): Cut Weldi move burrs before turning Replace - Contact Tip (2): Screw the - Thread Protector (1): Scree	nove by turning ing Wire (electr the Contact Tip Contact Tip (2)	in a counter cloo ode) close to th o (2) in a counte) in a clockwise	e Contact Tip (2) r clockwise direc direction.	and re- tion.
NK-115 FLUX COREI (2)→	D Torch	b) F - - c) F -	Disconnect Mains Power to F Remove - Nozzle (1): Remove by tur - Contact Tip (2): Cut Weldi move burrs before turning Replace - Contact Tip (2): Fit the cor tion. - Nozzle (1): Screw the Fit th	ning in a counte i ng Wire (electr the Contact Tip ntact tip turning	er clockwise dire ode) close to th o (2) in a counte the Contact Tip	e Contact Tip (2) r clockwise direc (2) in a clockwis	tion.

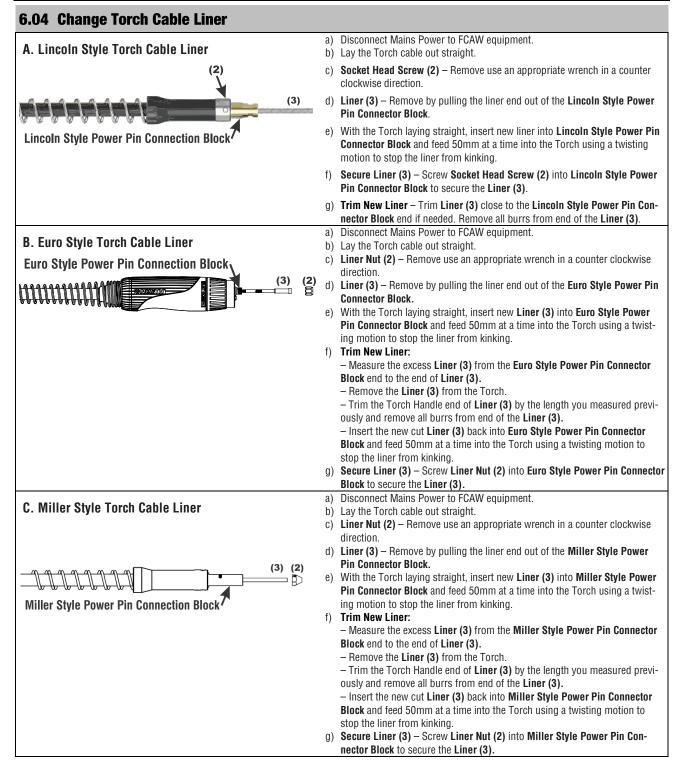
REPLACING WORN CONSUMABLE PARTS



February 09, 2023

g) Screw the Nozzle (1) back onto the Swan Neck in a clockwise direction.

REPLACING WORN CONSUMABLE PARTS



CONSUMABLE PARTS and TORCH PARTS

SECTION 7 – CONSUMABLE PARTS and TORCH PARTS

7.01 Contact Tips (Wear Parts)

A. NK-126 CONTACT TIPS

Part Number	Shape	Material	Wire Diameter (mm)		NX 126 NY 115	Product picture
ZB3116	-	Copper	1.6	-	-	•	
ZB3118	-	Copper	1.8	-	-	•	
ZB3120	-	Copper	2.0	-	-	•	
ZB3124	-	Copper	2.4	_	-	•	
ZB3116L	-	CuCrZr	1.6	-	-		
ZB3118L	-	CuCrZr	1.8	_	-		
ZB3120L	-	CuCrZr	2.0	-	-	•	
ZB3124L	-	CuCrZr	2.4	-	-	•	

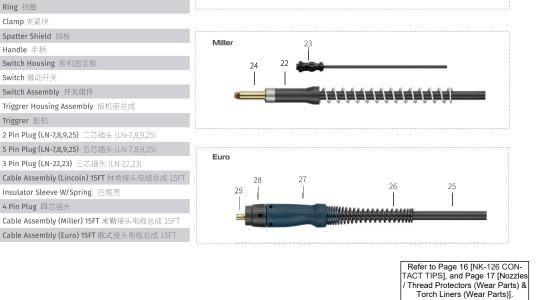
B. NK-115 CONTACT TIPS

Part Number	Shape	Material	Wire Diameter	(mm)		NK 126 NK 115	Product picture
ZB4120	-	Copper	2.0	-	-	•	
ZB4124	-	Copper	2.4	-	-	•	
ZB4127	-	Copper	2.7	-	-	•	
ZB4130	-	Copper	3.0	-	-	•	
ZB4120L	-	CuCrZr	2.0	-	-	•	
ZB4124L	-	CuCrZr	2.4	-	-	•	
ZB4127L	-	CuCrZr	2.7	-	-	•	
ZB4130L	-	CuCrZr	3.0	-	_	•	

CONSUMABLE PARTS and TORCH PARTS

7.02 Nozzles / Thread Protectors (Wear Parts) NK 126 K 115 Product picture Part Number/ Shape Material ФА(mm) В C (mm) 1/2-13UNC В ZN3101 8.5 22 Copper ФА ZN4101 Copper 7.4 5/8-11UNC 60 ZN4102 Copper 7.4 5/8-11UNC 40 7.03 Torch Liners (Wear Parts) Product picture 1× 120× 11 Part Number Material Wire Size ΦA mm Length B meters В ZR3224-4.5 Steel 1.6-2.4 4.5 ΦА a ZR4230-4.5 Steel 2.4-3.0 4.5

CONSUMABLE PARTS and TORCH PARTS 7.04 FLUX CORED TORCH NK-126 (350A @ 60%): Torch Parts 额定值: 350A,60% 暂载率。焊丝直径: 0.9-2.4mm (0.035"-3/32")。 Rating: 350A, 60% duty. wires: 0.9-2.4mm (0.035"-3/32"). ¹⁰ 11 12 9 -1 wear parts page 18 16 Model 型号 NK 126 焊枪 林肯排 15FT NK-126-15L Welding Gun Lincoln Fitting NK 126 焊枪 米勒接 15FT NK-126-15M Welding Gun Miller Fitting NK 126 焊枪 欧式接头 Welding Gun Euro Fitting 15FT NK-126-15E 序号 零件号 描述 序号 零件号 描述 Thread Protector 绝缘套 1 ZN3101 8M9501 Back Cable Support Spring 电缆后弹簧护套 26 Locking Screw 锁紧螺钉 2 ZF3211 27 NH0202 Back Handle Assembly 后枪壳组件 3 ZF3212 Steel Insert 钢套 NH020203 Gun Plug Nut 插件锁母 28 4 ZF3213 Creamic Insert 瓷环 29 ZEU0002 Euro Gun Plug 欧式插头 5 Liner 163mm 前导丝簧 ,163mm ZF32163 Liner 133mm 前导丝簧 ,133mm ZF32133* 6 ZF3230 **Swan Neck 30°** 枪颈 30 ZF3230J Swan Neck 30°, Jacketed 带外套枪颈 30° Lincoln Swan Neck 67°枪颈 67° ZF3267 21 ZF3267I Swan Neck 67°, Jacketed 带外套枪颈 67° 19 ZF3290 Swan Neck 90°枪颈 90° Handle Protector 手把护罩组件 ZK3001 8 ZT3001* Locking Screw 紧固螺钉 wear parts page Socket Head Cap Screw 内六角紧固螺钉 ZT3002 9 10 Q1316 Ring 挡圈 11 ZM3001 Clamp 夹紧块 12 ZH3011 Spatter Shield 挡机 Miller ZH3101 Handle 手柄 13 14 ZJ3014 Switch Housing 扳机固 22



15 0712 16 ZJ3015

17 ZJ3001 18 ZJ3011

22 ZH3201

23 MV0004

24 ZL3115M 25 ZL3115E

19 LV0002*

20 ZV0005

ZV3003 21 ZL3115L Switch 微动开头

Triggrer 扳机

4 Pin Plug 四芯插头

Switch Assembly 开关组件 Triggrer Housing Assembly 扳机座总成

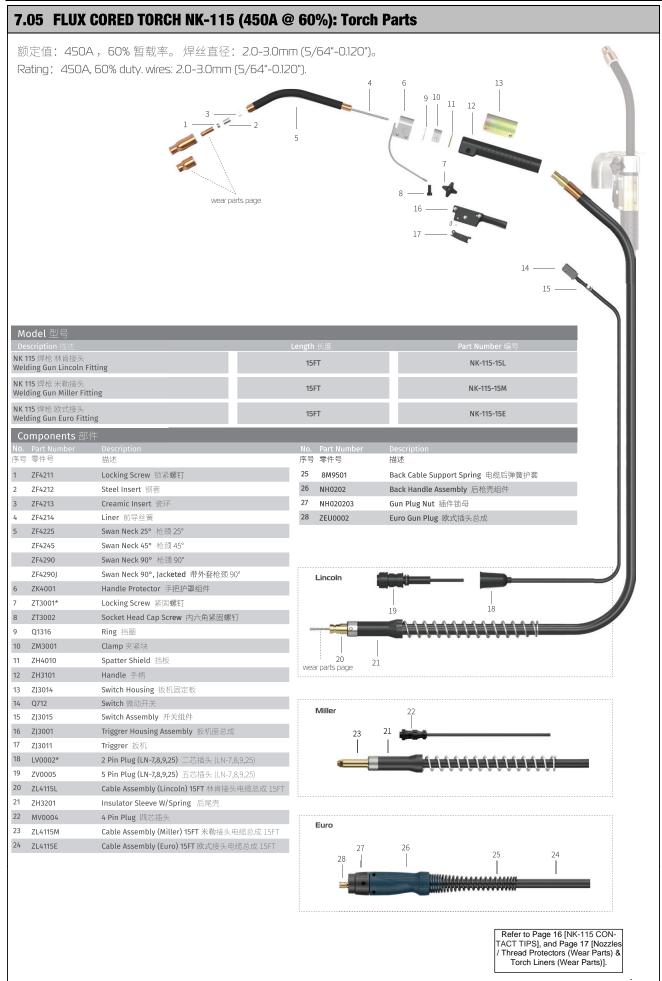
2 Pin Plug (LN-7,8,9,25) 二芯插头 (LN-7,8,9,25)

5 Pin Plug (LN-7,8,9,25) 五芯插头 (LN-7,8,9,25

3 Pin Plug (LN-22,23) 三芯插头 (LN-22,23)

Insulator Sleeve W/Spring 后尾壳

CONSUMABLE PARTS and TORCH PARTS



TROUBLESHOOTING

SECTION 8 – TROUBLESHOOTING

NOTE: Weld quality is dependent on the correct consumables, proper Torch position/angles, and Product maintenance.

Description	Possible Cause	Corrective Action
1. Welding wire feeding prob- lems.	 A Contact Tip is worn. B Torch Liner and/or Swan Neck Liner is worn / dirty. C Consumables used are not suitable for the 	 A Replace Contact Tip. B Check the Liners; blow it out with clean, dry compressed air. If needed replace it. C Use recommended consumables for the welding
	welding wire diameter or material. D FCAW equipment not set-up properly.	wire diameter/material used. D Check the feed rolls, feed roll pressure and the spool brake are adjusted as stated by the FCAW equipment's manual.
	E Welding wire is contaminated.	E Use a cleaning felt to clean welding wire in the FCAW equipment.
	F FLUX CORED TORCH control Multi-Pin Con- nector is not connected to the FCAW equip- ment.	F Connect the Multi-Pin to the FCAW equipment.
	G FCAW equipment not plugged into Mains Power or isn't switch ON.	G Plug FCAW equipment into Mains Power or switch ON.
	H Faulty Torch Trigger Switch , or Multi-Pin Plug , or Cable to the Torch Trigger Switch .	H Get a suitably Trained and Qualified Tradesperson to repair the FLUX CORED TORCH .
2. Welding wire does not feed out of the FLUX CORED TORCH due to a Birds Nest that may develop at the	A The FLUX CORED TORCH is not fitted with the correct size Contact Tip, Swan Neck Liner, or Torch Cable Liner.	A Check then replace any incorrect size parts in the FLUX CORED TORCH such as Contact Tip, Swan Neck Liner, or Torch Cable Liner.
FCAW equipment Drive Rolls. NOTE : A Birds Nest is a	B The Contact Tip is blocked with wire debris OR the Swan Neck Liner / Torch Cable Liner are worn / filled with dirt and debris.	B Replace the Contact Tip and/or Swan Neck Liner / Torch Cable Liner, blow out Swan Neck Liner / Torch Cable Liner with clean, dried compressed air.
tangle of welding wire at the Drive Rolls when the welding wire stops due an obstruction in a Torch Liner while the Drive Rolls are spinning.	C Worn or broken Torch Trigger Switch D Wrong size/type feed rolls for welding wire or worn feed rolls in the FCAW equipment.	C Test, if not working then replace. D Change feed rolls to correct size/type for welding wire or change worn feed rolls in the FCAW equipment.
3. Slower than normal Wire Feed Speed when the Torch	A Worn Feed Rolls in the FCAW equipment.	A Replace Worn Feed Rolls in the FCAW equip- ment.
Trigger Switch is pressed once the FLUX CORED TORCH has heated up to operating temperature.	B Torch Liner and/or Swan Neck Liner is worn / contaminated with welding wire shavings, or the Torch Liner has a kink in it.	B Check the Liners; blow it out with clean, dry compressed air. If the Liners cannot be cleaned, then replace the Liners. If Liners have kinks, then replace the Liners.
	C The FLUX CORED TORCH Cable is got a kink in it or is less than 600mm diameter coil.	C Remove the kink by straightening the FLUX CORED TORCH Cable or increase the FLUX CORED TORCH Cable to greater than 600mm di- ameter coil.
4. Torch is getting extremely hot.	A Contact tip or tip holder are not tightened properly.	A Make tighter using a suitable tool.
	B Torch Cable connections loose or defective.	B Make Torch Cable / Swan Neck connections tighter.

TROUBLESHOOTING

Description	Possible Cause	Corrective Action
5. Welding wire feeding prob-	A Contact Tip is worn.	A Replace Contact Tip.
lems.	B Torch Liner and/or Swan Neck Liner is worn /	B Check the Liners; blow it out with clean, dry
	dirty.	compressed air. If needed replace the Liners.
	C Consumables used are not suitable for the	C Use recommended consumables for the welding
	welding wire diameter or material.	wire diameter/material used.
	D FCAW equipment not set-up properly.	D Check the feed rolls, feed roll pressure and the spool brake are adjusted as stated by the FCAW
		equipment's manual.
	E Welding wire is contaminated.	E Use a cleaning felt to clean welding wire in the
		FCAW equipment.
	F FLUX CORED TORCH control Multi-Pin Con-	F Connect the Multi-Pin to the FCAW equipment.
	nector is not connected to the FCAW equip-	
	ment.	
6. Wire feed stops during	A Welding Wire blockage in Contact Tip .	A Check for contamination/clogging, clean or re-
welding.		place Contact Tip.
	B Wire burns back into Contact Tip .	B Replace the Contact Tip and move the Contact
		Tip further away from the welding arc when welding.
	C Groove worn in Contact Tip by welding wire.	C Replace Contact Tip .
7. Welding arc:	A Contact Tip is worn.	A Change Contact Tip.
- always varies length	B Wrong welding parameters.	B Check the FCAW equipment setup parameters
- is unstable		then change parameters.
- is erratic	C Poor electrical connections in the welding cir-	C Check / tighten all electrical connections of the
	cuit.	FCAW equipment, Torch, and ground cable to
		work piece.
8. Welding wire burns back	A Incorrect arc voltage/ wire feed speed weld pa-	A Adjust arc voltage and/or wire feed speed param-
to contact tip.	rameters for the welding wire/material/Torch position.	eters as recommended by the Welding Wire Manufacturer.
	B Erratic / unstable welding arc.	B Check the FCAW equipment for the correct weld-
		ing parameters as recommended by the Welding
		Wire Manufacturer.
	C Incorrect welding wire stick-out length for re-	C Adjust wire stick-out by adjusting the distance
	quired weld.	between the Contact Tip and the Welding Arc.
	D Ground cable to work piece fault.	D Replace ground cables and/or connections.
9. Short contact tip life	A Contact Tip size.	A Replace with correct Contact Tip size.
	B Welding wire eroding Contact Tip due to feed rolls scoring wire.	B Change feed rolls.
	C Exceeding Torch duty cycle.	C Replace with higher rated amperage rated Torch.
10. Extreme spatter	A Incorrect arc voltage/ wire feed speed weld pa-	A Adjust arc voltage and/or wire feed speed param-
	rameters for the welding wire / material / Torch	eters as recommended by the Welding Wire
	position.	Manufacturer.
	B Contaminated wire or work piece.	B Use a cleaning felt to clean welding wire in the
		FCAW equipment or clean the work piece.
11. Welding Wire comes out	A Faulty Torch Trigger Switch.	A Get a suitably Trained and Qualified Tradesper-
of the FLUX CORED TORCH with out pressing		son to repair or replace the Torch Trigger Switch.
the Torch Trigger Switch.	B Faulty Multi-Pin Plug, or Cable to the Torch	B Get a suitably Trained and Qualified Tradesper-
	Trigger Switch.	son to repair or replace the Multi-Pin Plug , or
		Cable to the Torch Trigger Switch .

SECTION 9 – ROUTINE SERVICE and MAINTENANCE

							/** (** _} ,	
Service / Mainte- nance must be per- formed by a suitably Trained and Qualified Tradesperson	Disconnect Input Mains Power Supply from Welding System before performing maintenance on the system. Electric shock can kill	Hot parts can burn. Let the Torch cool down prior to doing maintenance work	Turn off air compres- sor, and release air pressure from sys- tem. Compressed air can injure or kill.	Welding wire can cause in- jury	Moving parts can cause in- jury	Flying metal or dirt can injure eyes	Improper installation can cause fire	Read User Manual



Damaged Swan Necks, Torches, or Cable Assemblies must not be used!

Known defects must be repaired by suitably Trained and Qualified Tradesperson prior using Torch.

Schedule for Routine Maintenance / Inspection with Actions

Before Every Use	• Check torch, contact tip, nozzle, liner, cables, Wire Drive System, Worn Drive Roll, and overall equipment for damage. Replace any damaged components.				
Every 8 Hours of Use	Change Contact Tip.				
Once per Day	• Visual inspect for damages on the Swan Neck, and Torch Cable Assembly.				
Every 16 Hours of Use	• Use dry, clean compressed air to blow out the Liner but first re- move contact tip.				
Every 40 Hours of Use	 Remove the Liner and check for wear. Replace Liner if worn. Remove the Liner and check for dirt deposits. Use dry, clean compressed air to blow out the Liner but first remove contact tip. Replace Liner if dirt cannot be removed from Liner. 				
Once per Month (1 x 8 Hour Shift per Day) OR Twice per Month (2 x 8 Hour Shifts per Day) OR Three Times per Month (3 x 8 Hour Shifts per Day)	 Make sure that all screws are tightened. Inspect all connections and hoses for damages. 				



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