



# USER MANUAL

TUNPLAS45A-DV v.1.1



## 45A PLASMA CUTTER

DUAL VOLTAGE 230V / 110V





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## ABOUT THIS DOCUMENT

Please read all these instructions before operating this product and save them for future use. This manual has been compiled by Tundra Industrial and is an integrated part of the product with which it's enclosed. The instructions should be kept with it for the future reference.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential lifespan of the equipment.

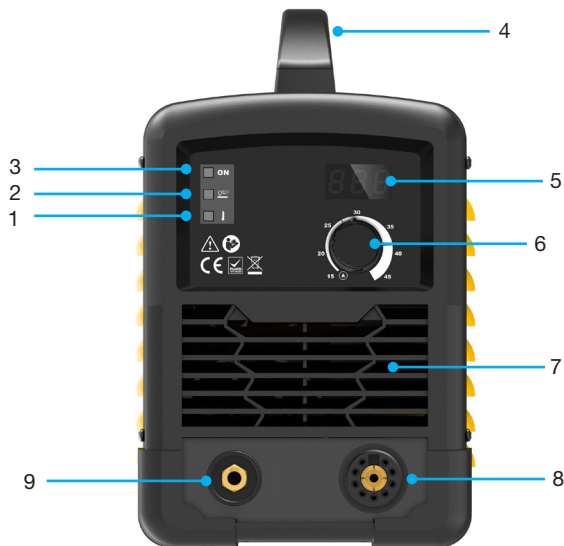
All photographs and drawings in this manual are supplied by Tundra Industrial to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning.

Note: The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the equipment. Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own appliance. Contact your nearest Tundra Industrial Dealer if you are unsure about any information included in this manual or require any additional information about the safe use, operation maintenance, or repair of this equipment.

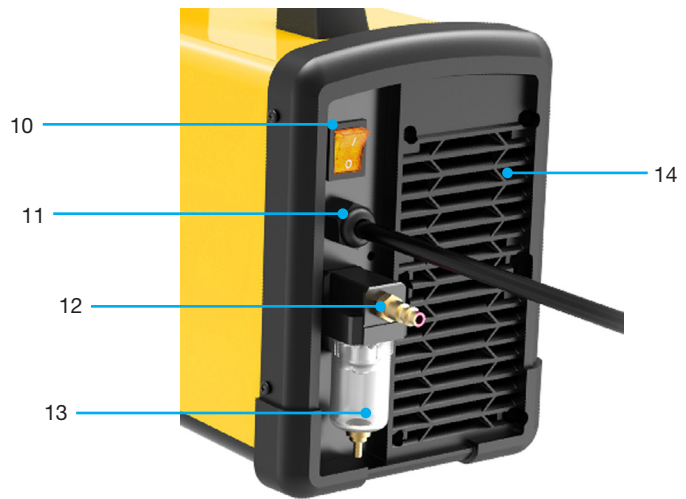
### SPECIFICATIONS

Model Number:	TUNPLAS45A-DV
Input Voltage ~ Frequency:	230V / 110V ~ 50Hz
Maximum Amp Output:	45A (@230V) 20A (@110V)
Cutting Capacity:	28mm
Open Circuit Voltage:	300V
Duty Cycle:	230V: 45A @ 30% · 110V: 20A @ 60%
Working Pressure:	80-110psi
Display:	Digital
Cable / Plug:	4M x 2.5mm 3 core / 16A
Dimensions:	582 x 343 x 381mm
NW / GW:	9.6kg / 15kg

### EQUIPMENT IDENTIFICATION



1. Thermal Overload
2. Cutting Indicator
3. Power Indicator
4. Carry Handle
5. Digital Display
6. Current Adjustment Knob
7. Air Vents
8. Torch Cable Socket



9. Earth Lead Socket
10. Power Switch
11. Power Cable
12. Air Inlet
13. Filter
14. Air Vents

### SAFETY GUIDELINES



Please read and ensure that you understand all of the operating instructions, safety precautions and warnings in this Instruction Manual before operating or maintaining this equipment. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing the appropriate safety procedures. Never use this equipment or modify it in any way that has not been specifically recommended by the manufacturer. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment.

### GENERAL EQUIPMENT SAFETY

- Do not operate the machine without reading and understanding the contents of this user manual.
- This equipment should only be used by competent trained operators.
- Do not operate under the influence of medication or alcohol.
- Regularly inspect the plasma cutter for damage before use.
- Do not use the equipment if damage is detected.
- Replace any damaged parts before use (contact your dealer for Tundra Industrial approved replacement parts).
- Always use the machine for its intended purpose, do not modify the equipment for other uses.
- This equipment should only be repaired by fully-trained or approved engineers.
- Ensure that the plasma cutter is not connected to the mains power supply before removing the outer casings to carry out repair or maintenance.

### WORKING ENVIRONMENT

- Only use in clean, uncluttered environments with good ventilation and sufficient light.
- Do not operate in the vicinity of children or animals.
- Do not operate in explosive atmospheres, in the presence of flammable liquids, gases or excessive dust.
- Cutting sparks can ignite dust and fumes.

### PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating this equipment.
- Never use a plasma cutter while you are tired or under the influence of drugs, alcohol or medication.
- Arc rays and infrared radiation can injure eyes and burn skin. Always wear suitable Personal Protection Equipment (PPE) that has been tested to the latest standards and rated for use with this equipment. This includes eye protection such as arc shaded (with a DIN Shade 10 lens rating), impact safety full face shield, dust mask or respirator, heavy-duty work gloves, non-skid safety shoes and hearing protection.
- Do not wear loose fitting clothing or jewellery. Ensure long hair is tied back before operating this equipment.
- Avoid accidental starting. Always ensure the power switch is in the OFF position before plugging in.
- Do not overreach, ensure that you are working on a firm stable surface with proper footing and balance at all times.
- Ensure that the plasma cutter is suitably rated for the application before use.
- Store in a clean dry environment out of the reach of children.
- Ensure that the plasma cutter is kept clean and well-maintained to ensure safe use and longer working life.
- Use a qualified service engineer and contact your Tundra Industrial Dealer for any advice required on the safe operation and maintenance of this equipment.



#### WARNING:

No responsibility is accepted for incorrect use of this equipment. Incorrect use can result in damage to the equipment and danger to the user. Warranty will be void in the event of incorrect use. The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## ELECTRICAL SAFETY








Ensure that you check the equipment thoroughly to ensure it is safe and fit for purpose before each use. It is important that you inspect all plugs, sockets, power cables and electrical fittings for wear and damage and repair or replace any defective components. The risk of electric shock can be minimised by the correct use of the appropriate electrical safety devices.

- We recommend that you fit a Residual Current Circuit Breaker (RCCB) in the main distribution board and that a Residual Current Device (RCD) is used when operating this equipment.
- The Electricity at Work Act 1989 includes legislation that places legal implications on employers to ensure the safety of electrical devices in the workplace. The regulations dictate that all portable equipment must be inspected regularly and tested to ensure that it is safe for use. 'Portable equipment' means any electrical item that can be moved and this is often referred to as Portable Appliance Testing (PAT). PAT testing should be carried out regularly on this equipment by trained, authorised personnel, as required by the legislation.
- The Health and Safety at Work Act 1974 states that it is the responsibility of the owner of electrical appliances to ensure that both the equipment and working environments are maintained to ensure safe operation at all times.
- Check that all equipment cables are secure, correctly insulated, free from damage, and protected against short circuit and overload before connecting to the power supply. Do not use worn or damaged cables, plugs, sockets or other fittings.
- Ensure that the power supply matches voltage requirements specified on the equipment and that the plug is wired correctly and fitted with the correct fuse.
- If the electrical fuse blows, ensure it is replaced by an identical type of fuse with the same rating.
- Never pull or manoeuvre this equipment into position using the power cable.
- Ensure the power cable is kept away from heat, oil and sharp edges. Damaged or entangled cables increase the risk of electric shock.
- We recommend that the equipment is connected directly to the power supply without the use of extension leads as the resulting voltage drop can reduce motor performance.
- Always disconnect the equipment from the power source before servicing, inspecting, maintaining, cleaning, replacing or checking any parts.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose the plasma cutter to rain or wet conditions. Any moisture entering a plasma cutter will increase the risk of electric shock and will result in damage or corrosion.
- When operating the plasma cutter outdoors, use an extension cable that is designed and rated for outdoor use.
- This unit draws enough current to cause serious injury or death. Do not use the plasma cutter unless you are insulated from the ground and the work piece.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to pacemakers could cause interference or failure.

## OPERATION SAFETY

- Move any flammable and explosive materials at least 10 meters from the cutting arc to prevent sparks or molten metal from starting a fire.
- Always keep a type ABC fire extinguisher within easy reach as a fire precaution.
- Thoroughly clean the object being cut of any paint, grease, or other foreign material.
- Avoid unintentional starting (ensure power switch is set to the OFF / "0" position before connecting to the mains supply)
- Prepare and securely fix the work piece before turning on the plasma cutter.
- Never leave the plasma cutter unattended when it is plugged into an electrical supply.
- Always turn off the plasma cutter, and unplug it from its electrical outlet before leaving the work environment.
- Use clamps or other practical ways to secure and support the work piece to a stable work surface.
- Wear an approved head covering to protect the head and neck. Use aprons, cape, sleeves, shoulder covers, and bibs designed and approved for welding and cut-ting procedures.
- When welding/cutting overhead or in confined spaces, wear flame resistant ear plugs or ear muffs to keep sparks out of ears.
- Enclose the work area with portable fire resistant screens where possible. Protect combustible walls, ceilings, floors, etc., from sparks and heat with fire resistant covers.

- If working on a metal wall, ceiling, etc, prevent ignition of combustibles on the other side by moving the objects to a safe location. If relocation of combustibles is not possible, designate someone to serve as a fire watch, equipped with a fire extinguisher, during the cutting process and for at least one half hour after the cutting is completed.
- Do not weld or cut on materials having a combustible coating or combustible internal structure, as in walls or ceilings, without an approved method for eliminating the hazard.
- Do not dispose of hot slag in containers holding combustible materials. Keep a fire extinguisher nearby and know how to use it.
- After cutting, make a thorough examination for evidence of fire. Be aware that easily-visible smoke or flame may not be present for some time after the fire has started. Do not weld or cut in atmospheres containing dangerously reactive or flammable gases, vapours, liquids, and dust. Provide adequate ventilation in work areas to prevent accumulation of flammable gases, vapours, and dust. Do not apply heat to a container that has held an unknown substance or a combustible material whose contents, when heated, can produce flammable or explosive vapours.
- Clean and purge containers before applying heat.
- Vent closed containers, including castings, before preheating, welding, or cutting.
- Do not touch live electrical parts. Wear dry, insulating gloves.
- Do not touch electrode or conductor tong with bare hand. Do not wear wet or damaged gloves.
- Protect yourself from electric shock. Always insulate yourself from the work piece and ground. Use nonflammable, dry insulating material if possible, or use dry rubber mats, dry wood or plywood, or other dry insulating material big enough to cover your full area of contact with the work or ground.
- Never remove the grounding prong or modify the Power Cord Plug in any way. Do not use adapter plugs with this product.
- Ensure that the unit is placed on a stable location before use. If this unit falls while plugged in, severe injury, electric shock, or fire may result.
- Avoid overexposure to fumes and gases. Always keep your head out of the fumes. Do not breathe the fumes. Use enough ventilation or exhaust, or both, to keep fumes and gases from your breathing zone and general area.
- Use only compressed air at between 80-110psi. Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the plasma cutter. Such gases are capable of explosion and serious injury to people.
- The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
- Familiarise yourself with the specifications, rated duty cycles and operating instructions of this equipment.
- The duty cycle defines the number of minutes, within a 10 minute period, during which a given plasma cutter can safely produce a particular current as shown on the information label shown on the underside of the equipment:

<b>TUNPLAS45A-DV</b>		Serial NO:		
		EN60974-1, EN60974-10		
		15A/86V- 45A/98V		
		X	40%	100%
	U <sub>0</sub> =320V	I <sub>2</sub>	45A	30A
		U <sub>2</sub>	98V	92V
 1~50/60Hz	U <sub>1</sub> =230V	I <sub>1max</sub> =24A	I <sub>1eff</sub> =15A	
IP21S	<a href="http://www.tundraindustrial.co.uk">www.tundraindustrial.co.uk</a>			

## OPERATION GUIDE

### BEFORE USE

- Unpack and make sure all the items in good condition before use. Occasionally equipment can be damaged in transit. All damage should be noted and reported. Do not use the equipment if any damage is detected. If abnormal noise or vibration occurs, have the problem corrected before further use.
- Ensure the power switch is set to the **OFF / "0"** position and check the power source for correct input before connecting the plasma cutter to the mains supply.
- Connect the gas line to the compressed air inlet port at a suitable pressure. Use only compressed air at between **80-110psi**. Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the plasma cutter.
- Ensure you are wearing the correct Personal Protection Equipment (PPE) before using this equipment. Contact your Tundra Industrial dealer for advice on protection and equipment requirements. A full range of safety equipment is available with full details on our website and latest catalogue.
- You will require arc shaded eye protection (**DIN Shade 10** recommended), a full face shield, heavy-duty work gloves, a welding apron, respirator, and heavy-duty work clothes without pockets should be worn when using this product.
- Do not look at the ignited arc without eye protection. Light from the arc can cause permanent damage to the eyes. Light from the arc can burn the skin. Do not breathe arc fumes.



- Designate a work area that is clean, well-lit and well-ventilated. The work area must not allow access by children or pets to prevent injury and distraction.
- Position the power cable along a safe route to reach the work area without creating a tripping hazard or exposing the cable to possible damage.
- The power cable must reach the work area with enough extra length to allow free movement while working.
- Ensure there are no hazardous objects, such as utility lines or foreign objects, nearby that will present a hazard while working.
- A barrier, such as a welding curtain or welding shroud should be put up to protect others in the work area and limit the spray of sparks.



## PLASMA CUTTING

- Mount the metal to be cut to the metal welding/cutting table. It should be mounted so that the cutting debris falls onto a non-flammable or cement floor.
- Place the plasma cutter unit no closer than **2 meters** from the workpiece to be cut.
- Fix the earth / grounding clamp to a part of the workpiece or metal table that is clean of paint, oil, or dirt. Clamp as close as possible to the workpiece but far enough away to avoid damaging the cable during cutting.
- Set the desired current for the type of metal being cut with the current adjustment knob. Generally and depending on the material, thin metals use low current and heavy metals require higher current.
- Ensure the power switch is set to the **OFF / "0"** position, then plug the Plasma Cutter's Power Cord into a dedicated, 230V electrical supply (or a 110V supply with a suitable adaptor mounted on the power cable) with delayed action type circuit breaker.
- Hold the cutting torch firmly. Please Note: The torch is "live" when its trigger is pressed.
- Keep the torch away from people and flammables before touching the trigger.
- When everything is in place for cut, press the Power Switch to its **ON / "1"** position. The **GREEN** "Power Indicator" will illuminate and machine is ready to cut.
- **WARNING! TO PREVENT SERIOUS INJURY:** point torch away from your body when triggering the torch.
- Once the torch is triggered, the arc will ignite. This unit provides a pilot arc, so the cutting torch does not need to contact the workpiece before the cutting arc ignites.
- Trigger the torch and the **RED** "Cutting Indicator" will illuminate.
- Make sure not to touch anything else with the Torch except the workpiece to be cut.
- Slowly move the cutting torch at a slight angle along the cutting line with the torch tip trailing.
- The air causes the molten metal to fall away from the workpiece being cut.
- The machine is equipped with 20 seconds of nozzle air cooling after torch trigger is released.
- When finished cutting, release the trigger on the cutting torch and lift the torch away from the workpiece.
- Press the Power Switch to its **OFF / "0"** position and set the cutting torch down on the metal workbench.
- Turn off the air supply and unplug the power cord from the power supply
- Allow all components of the Plasma Cutter to completely cool before storing the plasma cutter in a cool dry indoor environment - out of the reach of children.

## THERMAL CUTOFF

This plasma cutter is equipped with an internal thermal protection system to help prevent damage to the unit. If the cutter exceeds the rated duty cycle it may overheat. In this state, the thermal overload indicator light will illuminate on the front panel display, the plasma cutter will automatically shut down. The cutter will return to operation when it cools down sufficiently.

## MAINTENANCE

Ensure all repair and replacement of parts is carried out by a qualified technician using only Tundra Industrial approved replacement parts. A list spare parts and a parts diagram are supplied later in this document. Contact your nearest Tundra Industrial dealer for any information or advice required.

**WARNING:** To prevent serious injury from accidental operation: Turn the Power Switch of the Plasma Cutter to its "OFF" / "O" position and unplug the plasma cutter from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

### CLEANING, MAINTENANCE, AND LUBRICATION PROCEDURE

1. Before each use, inspect the general condition of the plasma cutter. Check for loose screws, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. Maintain the air supply according to the component manufacturers' instructions.
3. Drain the dryer regularly. Performing routine air supply maintenance will allow the tool to operate more safely and will also reduce wear on the tool.
4. After Use, clean external surfaces of the plasma cutter with clean cloth.
5. Periodically, using compressed air, blow out all dust and debris from the interior.
6. If the unit repeatedly shuts down from thermal overload, stop all use. Have the Plasma Cutter inspected and repaired by a qualified service technician.
7. Store the plasma cutter and accessories in a clean and dry location out of reach of children.

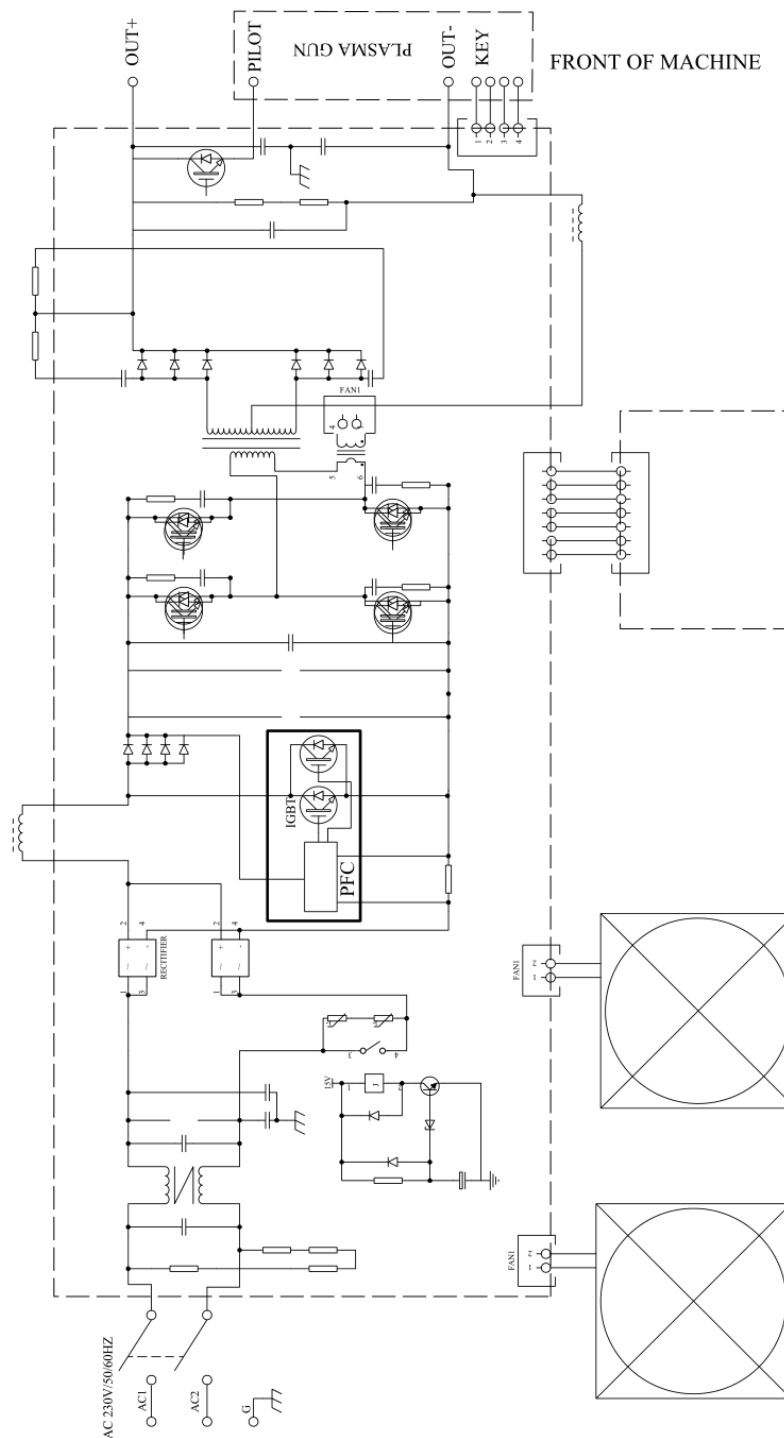
## FAULT CODES

Fault Code	Fault Description	Fault Cause And Elimination
F01	Overheat	Ambient temperature is too high, or machine reaches its limit of duty cycle. Allow the machine cool down with fan running. And check for obstructions blocking air flow and keep enough space between any obstacles and the vents on all sides of the machine.
F02	Incorrect input voltage	Input voltage is too high or too low. Check connection between the plug and outlet, and make sure rated input power is supplied.
F03	Shield cup loose or missing	Install the shield cup properly and make it in place.
F04	Insufficient input air pressure	Input air pressure is lower than 58 psi. Check the air inlet connection and ensure a higher air pressure is supplied.
F05	Torch triggered before machine is turned on	Torch trigger is stuck or is triggered when turn on the machine. Turn off the machine, check and reset torch trigger.
F06	Electrode and nozzle stuck together	Electrode piston or spring is abnormal. Disassemble torch consumables to check and reset them in place, trigger the torch to see if the fault is eliminated.
F07	Electrode or nozzle failed to reset	Electrode piston or spring is abnormal, or cutting residue inside. Disassemble torch consumables and clean them as well as the inside of the torch head. Install all parts and trigger the torch to see if the fault is eliminated.

### TROUBLESHOOTING

Symptom	Possible Causes	Solution
<b>All LEDs are OFF when equipment.</b>	1. No electrical supply to the equipment	Check supply voltage Check / replace power cable fuse Verify that circuit breaker hasn't been tripped Contact your service technician
<b>Arc does not ignite</b>	1. Improper ground connection	Make certain that the work piece is contacted properly by the Earth Clamp and that the work piece is properly cleaned near the Earth Clamp and the cutting location
	2. Improperly sized or excessively worn nozzle	Verify that Nozzle is the proper size for the cutting torch used. Check that the hole in the tip is not deformed, enlarged, or dirty. If needed, replace Nozzle with proper size and type
<b>Insufficient cutting penetration</b>	1. Output current is too low	Increase output current by turning the current adjustment knob in a clockwise direction. Make sure proper input power is supplied
	2. Material being cut is too thick	Refer to equipment specifications and choose a suitable material to cut or switch to a more powerful plasma cutter for the task
	3. Cutting speed is too fast	Reduce torch travel speed.
	4. Incorrect cutting angle	Adjust cutting angle and make sure torch head is vertical to the workpiece
	5. Consumables are worn out	Check the condition of the consumables and replace the worn parts if necessary
<b>Excessive slag formation</b>	1. Consumables are worn out	Replace worn consumables, then reassemble the torch ensuring all connections are secure
	2. Improper cutting speed	Increase cutting speed if slag formed at the bottom, or decrease if slag formed at the top of workpiece
<b>No gas flow</b>	1. Nozzle plugged	Clean the nozzle. If damaged, replace
	2. Air supply hose blocked	Check, replace air supply hose
<b>Cutting arc is not stable</b>	1. Loose torch cable or earth / ground clamp cable	Check to ensure that all connections are tight
	2. Unstable line voltage	Check the line voltage and, if there are problems with the wires, have a licensed electrician remedy the situation
	3. Cutting current is too low	Increase cutting current through turning the knob clockwise
	4. Torch travels too fast	Slow down the cutting speed
	5. Torch consumables worn out	Check nozzle, shield cup, or electrode, replace if needed

## CIRCUIT / WIRING DIAGRAM



## ENVIRONMENTAL PROTECTION



**PLEASE  
RECYCLE**

Recycle any packaging and unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

When the product becomes completely unserviceable, reaches the end of its working life and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

## WEEE (Waste Electrical and Electronic Equipment) STATEMENT

### INFORMATION ON DISPOSAL FOR USERS OF WASTE ELECTRICAL & ELECTRONIC EQUIPMENT



This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

#### FOR PRIVATE HOUSEHOLDS:

Dispose of this product at the end of its working life and in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). Contact your local solid waste authority for recycling information for this equipment.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

#### FOR BUSINESS USERS IN THE EUROPEAN UNION:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

#### INFORMATION ON DISPOSAL IN OTHER COUNTRIES OUTSIDE THE EUROPEAN UNION:

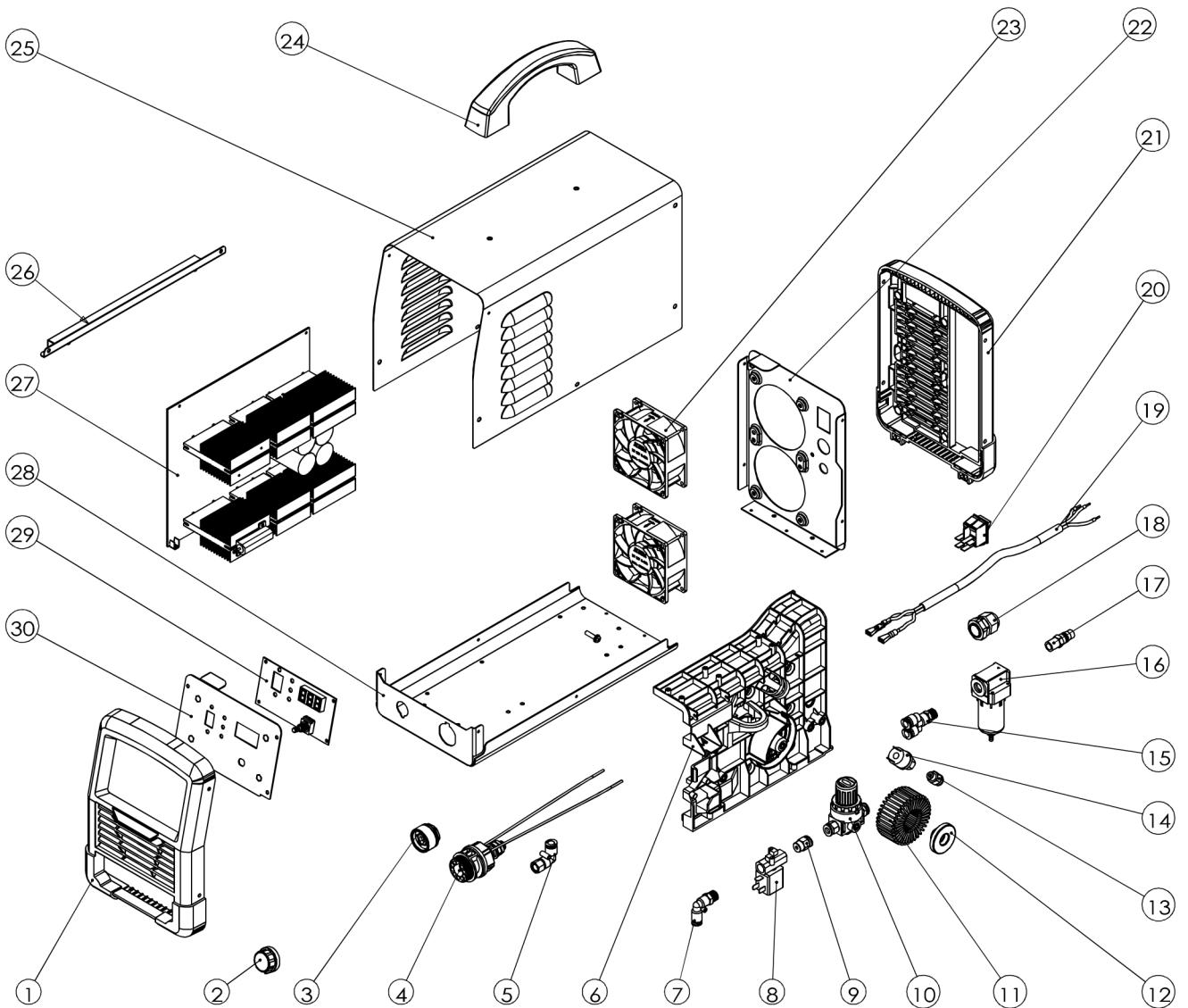
This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

## RoHS Directive 2011/65/EU

We hereby declare that this equipment has been tested and found to be compliant to RoHS Directive 2011/65/EU of the European Parliament and the Council from 08/06/2011 on restriction of the use of certain hazardous substances in electrical and electronic appliances.

Screening Test by XRF Spectroscopy Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) BBP, DBP, DEHP, DIBP content Reference to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863

**PARTS LIST & DIAGRAM**



## PARTS LIST

#	Description	Quantity
1	Front Plastic Cover	1
2	Knob	1
3	Tube Connector	1
4	Plasma Cutter Connector	1
5	Tube Connector	1
6	Cassette Mechanism Holder	1
7	Tube Connector	1
8	Solenoid Valve	1
9	Tube Connector	1
10	Pressure Reducing Valve	1
11	Inductor	1
12	Rubber	1
13	Tube Connector	1
14	Barometric Switch	1
15	Tube Connector	1
16	Filter	1
17	Tube Connector	1
18	Cable Clip	1
19	Power Cable	1
20	Switch	1
21	Back Plastic Cover	1
22	Rear Cover Assembly	1
23	DC Fan	2
24	Handle	1
25	Top Cover	1
26	Beam	1
27	Main PCB	1
28	Bottom	1
29	Control PCB	1
30	Control Panel	1



# USER MANUAL

TUNPLA545A-DV v.1.1

## LIMITED WARRANTY STATEMENT

Tundra Industrial warrants its customers that its products will be free of faults in workmanship or material. Tundra Industrial shall, upon suitable notification, correct any faults, by repair or replacement, of any parts or components of this product that are determined by Tundra Industrial to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service or repair.

### Warranty Period

Tundra Industrial will assume both the parts and labour expense of correcting faults during the stated warranty periods below.

All warranty periods start from the date of purchase from an authorised Tundra Industrial dealer. If proof of purchase is unavailable from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

#### 1 Year

- TUNPLA5405-DV - 45A Plasma Cutter - Dual Voltage ~ 50Hz

#### 90 Days

- All replacement parts purchased **outside** of the warranty period

**Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.**

### Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address:

**[www.jeffersontools.com/warranty](http://www.jeffersontools.com/warranty)** and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

### Warranty Repair

Should Tundra Industrial confirm the existence of any fault covered by this warranty the fault will be corrected by repair or replacement at an authorized Tundra Industrial dealer or repair centre.

### Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Tundra Industrial will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no fault can be found or the equipment is not covered under the terms of the Tundra Industrial warranty, the customer will be liable for any labour and return transportation costs incurred.

These costs will be agreed with the customer before the machine is returned.

**Important: Tundra Industrial reserve the right to void any warranty for damages identified as being caused through misuse**

### Warranty Limitations

Tundra Industrial will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Tundra Industrial's liability under this warranty will not exceed the cost of correcting the fault of the Tundra Industrial products.

Tundra Industrial will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc.) caused by the fault or the time involved to correct the fault. This written warranty is the only express warranty provided by Tundra Industrial with respect to its products. Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved.

Tundra Industrial is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.



## Claiming Warranty Coverage

The end user must contact Tundra Industrial (Tel: +44 (0) 1244 646 048) or their nearest authorised Tundra Industrial dealer where final determination of the warranty coverage can be ascertained.

### Step 1 - Reporting the Fault

#### Online Method:

- Visit our website [www.jeffersonstools.com/warranty](http://www.jeffersonstools.com/warranty) and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

#### Telephone Method:

Contact your Tundra Industrial dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Tundra Industrial repair centre. On receipt of this form Tundra Industrial will arrange to collect the equipment from you at the earliest convenience.

### Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection, **together with a copy of the original proof of purchase**. Please note that Tundra Industrial cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

**Please note: Tundra Industrial will be unable to collect or process any warranty requests without a copy of the original proof of purchase.**

### Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Tundra Industrial engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days).

Note: If the repair quotation is not accepted Tundra Industrial Professional Tools & Equipment will invoice **1 hour labour time at £30 per hour plus return carriage costs (plus VAT)**.

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at **£30 per hour plus carriage costs** will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Tundra Industrial Repair centre (subject to part availability). Where parts are not immediately available Tundra Industrial will contact you with a revised date for completion of the repair.

## General Warranty Enquiries

For any further information relating to Tundra Industrial warranty cover please call **+44 (0) 1244 646 048** or send your enquiry via email to **warranty@jeffersonstools.com**

### EC DECLARATION OF CONFORMITY

We, Tundra Industrial, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following directives, standards and regulations:

Number :	Description :
EN 60974-1:2012	Arc welding equipment. Welding power sources
2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive

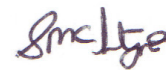
**Equipment Category:** Plasma Cutter

**Product Model:** TUNPLAS405-DV - 45A Plasma Cutter - Dual Voltage ~ 50Hz

**Notified Body:** Intertek

**Signed by:**

Stephen McIntyre



**Position in the company:**

Operations Director

**Date:**

02 November 2020

**Name and address of manufacturer or authorised representative:**

Tundra Industrial, Herons Way, Chester Business Park, Chester, United Kingdom, CH4 9QR  
 Telephone: +44 (0)1244 646 048  
 Fax: +44 (0)1244 241 191



