



XTM 304C

OPERATOR MANUAL ISSUE 1



Welcome

Thank you and congratulations on choosing Parweld. This Owner's Manual is designed to help you get the most out of your Parweld products. Please take time to read the Safety precautions. They will help you protect yourself against potential hazards in the workplace. With proper maintenance this equipment should provide years of reliable service. All our systems conform to ISO9001: 2015 and are independently audited by NQA.

The entire product range carries the CE mark, and is constructed in accordance with European directives and the product specific standards where they apply.

Further Information

Parweld is the UK's leading supplier of MIG, TIG and Plasma torches and consumables.

For more information about Parweld's complete range visit: www.parweld.co.uk



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1.0 Safety Precautions

ELECTRIC SHOCK can kill.

Touching live electrical parts can cause fatal shocks or severe burns. The electrode and work circuit is electrically live whenever the output is on. The input power circuit and machine internal circuits are also 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 equipment is a hazard.

Do not touch live electrical parts.

Wear dry, sound 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 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; or when there is a high risk of unavoidable or accidental contact with the work piece or ground. For these conditions, use the following equipment in order presented: 1) a semiautomatic DC constant voltage (wire) welder, 2) a DC manual (stick) welder, And, do not work alone!

Disconnect input power before installing or servicing this equipment. Lockout/tagout input power according to Safety Standards.

Properly install and ground this equipment according to national and local standards

Always verify the supply ground - check and ensure that input power cable ground wire is properly connected to ground terminal in the receptacle outlet.

When making input connections, attach proper grounding conductor first - double-check connections.

Frequently inspect input power cable for damage or bare wiring - replace cable immediately if damaged - bare wiring can kill.

Turn off all equipment when not in use.

Do not use worn, damaged, under sized, or poorly spliced cables.

Do not drape cables over your body.

If earth grounding of the work piece is required, ground it directly with a separate cable.

Do not touch electrode if you are in contact with the work, ground, or another electrode from a different machine.

Use only well-maintained equipment. Repair or replace damaged parts at once. Maintain unit according to manual.

Wear a safety harness if working above floor level.

Keep all panels and covers securely in place.

Clamp work cable with good metal-to-metal contact to work piece or worktable as near the weld as practical.

Insulate work clamp when not connected to work piece to prevent contact with any metal object.

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

FUMES AND GASES can be hazardous.

Keep your head out of the fumes. Do not breathe the fumes. If inside, ventilate the area and/or use local forced ventilation at the arc to remove welding fumes and gases.

If ventilation is poor, wear an approved respirator.

Read and understand the Material Safety Data Sheets (MSDS's) and the manufacturer's instructions for metals, consumable, coatings, cleaners, and de-greasers.

Work in a confined space only if it is well ventilated, or while wearing an air-supplied respirator. Always have a trained watch person nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe.

Do not weld in locations near de-greasing, 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 while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded.

ARC RAYS can burn eyes and skin.

Arc rays from the welding process produce intense, visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.

Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes when welding or watching

Wear approved safety glasses with side shields under your helmet.

Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.

Wear protective clothing made from durable, flame resistant material (leather, heavy cotton, or wool) and foot protection. Welding on closed containers, such as tanks, drums, or pipes, can cause them to blow up. Sparks can fly off from the welding arc. The flying sparks, hot work piece, and hot equipment can cause fires and burns. Accidental contact of electrode to metal objects can cause sparks, explosion, overheating, or fire. Check and be sure the area is safe before doing any welding.



WELDING can cause fire or explosion.

Remove all flammables within 10m of the welding arc. If this is not possible, tightly cover them with approved covers.

Do not weld where flying sparks can strike flammable material.

Protect yourself and others from flying sparks and hot metal.

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 closed containers such as tanks, drums, or pipes, unless they are properly prepared according to local regulations

Connect work cable to the work as close to the welding area as practical to prevent welding current from travelling along, possibly unknown paths and causing electric shock, sparks, and fire hazards.

Cut off welding wire at contact tip when not in use.

Wear oil-free protective garments such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap. Remove any combustibles, such as a butane lighter or matches, from your person before doing any welding.

FLYING METAL can injure eyes.

Welding, chipping, wire brushing, and grinding cause sparks and flying metal. As welds cool they can throw off slag. Wear approved safety glasses with side shields even under your welding helmet.

BUILDUP OF GAS can injure or kill.

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

HOT PARTS can cause severe burns.

Do not touch hot parts with bare handed.

Allow cooling period before working on gun or torch.

To handle hot parts, use proper tools and/or wear heavy, insulated welding gloves and clothing to prevent burns.

MAGNETIC FIELDS can affect pacemakers.

Pacemaker wearers keep away.

Wearers should consult their doctor before going near arc welding, gouging, or spot welding operations.

NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

Wear approved ear protection if noise level is high.

Shielding gas cylinders contain gas under high pressure.

CYLINDERS can explode if damaged.

Protect compressed gas cylinders from excessive heat, mechanical shocks, physical damage, slag, open flames, sparks, and arcs. Install cylinders in an upright position by securing to a stationary support or cylinder rack to prevent falling or tipping. Keep cylinders away from any welding or other electrical circuits. Never drape a welding torch over a gas cylinder. Never allow a welding electrode to touch any cylinder. Never weld on a pressurized cylinder - explosion will result. 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.

Use the right equipment, correct procedures, and sufficient number of persons to lift and move cylinders.

Read and follow instructions on compressed gas cylinders, associated equipment, and Compressed Gas Association (CGA)

2.0 Product Description

The XTM 304C is a complete semiautomatic constant voltage DC arc welding machine built to meet CE specifications. It combines a constant voltage power source and a constant speed wire feeder with a microcomputer-based controller to form a reliable high-performance welding system. A simple control scheme, consisting of a range voltage and wire feed speed controls, provides versatility with ease of use and accuracy. Other features include wire reel spindle with adjustable brake for 15kg wire spools (300mm), an integral gas cylinder mounting undercarriage, an adjustable Argon flow regulator with cylinder pressure gauge and inlet hose, a Parweld MIG torch, and a 3.0m work cable with clamp. Digital meters display the actual welding voltage and amperage and the machine has additional controls for adjustment of burn back and soft starting.



3.0 Technical Specifications

The XTM 304C is a compact type machine with integrated wire feed unit for use with 3 phase 400V supply.

Feature	XTM 304C
Supply voltage [V]	3 x 400 ± 10%
Supply frequency	50 / 60 Hz
Supply current, max.	16 A
Fuse, slow	16 A
Welding range [A]	30 – 300 A
No load voltage [V]	15 – 36 V
Duty cycle:	100% - 160 A, 60% - 200 A 30% - 300 A
Voltage steps	21
Welding wire Ø (steel) [mm]	0,6 – 1,2
Protection	IP 21
Insulation class	Н
Cooling	AF
Dimensions [mm]	700x540x795
Weight (kg)	84

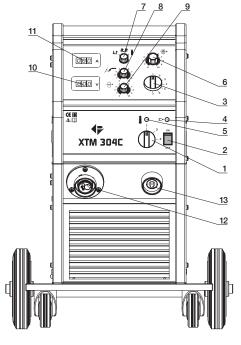
4.0 Description of Controls

Do Not operate this switch while welding

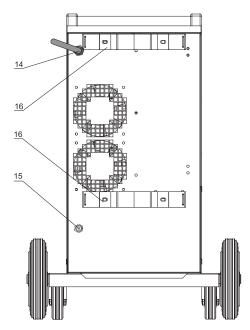
- Coarse Voltage selector switch. This switch is used to select the require welding voltage each position of the switch represents approximately 6V.
- On Off switch. The machine is switched off when the light (4) is off and the fan is not running.
- Fine Voltage selector switch. This switch is used to select the require welding voltage each position of the switch represents approximately 0.5V.
- Mains input light. This light illuminates when the mains power is connected and the machine is switched on.
- 5. Fault light. This light will illuminate when a fault or over temperature condition has occurred. If this light illuminates allow the machine to cool with the fan still running until it extinguished. If the light does not go off when the power source has cooled down then have the machine checked by a qualified engineer.

Do Not operate this switch while welding

- Wire feed speed adjustment, controls the speed of wire feeding from 0.8 to 24 m/min. Increasing the wire feed speed also has the effect of increasing the welding current
- 7. 2T 4T, when in the 2T position the torch trigger will have a momentary operation ie the welding operation will start when the rigger is depressed and stop when it is released. In the 4T position a short press and release of the trigger will start the welding operation and a short press and release with stop the operation. The 4T mode is ideal for long welds as it reduces operator fatigue. Gas purge. Allows gas to flow through the welding torch and so allow checking of the gas flow before starting the welding process.
- Burn back control affects the wire feed motor over run when the trigger is released and can be adjusted to ensure that the wire does not burn back onto the contact tip at the end of the weld. (Increase to reduce wire stickout).
- Soft start adjustment which controls the acceleration of the wire feed motor when the arc starts to reduce spatter and give a cleaner arc initiation.



- 1. ON/OFF switch
- 2. Coarse welding voltage setting
- 3. Fine welding voltage setting
- 4. LED, green ON indication
- 5. LED, orange OVERLOAD indication
- Wire speed adjustment
- 7. Function switch: 2-step, 4-step, Gas test
- 8. Burn back adjustment
- 9. Motor ramp
- 10. Welding voltage display
- 11. Welding current display
- 12. Central connector (EU)
- 13. Return cable connector



- Digital display for voltage (displayed real time).
- 11. Digital display for amperage (displayed real time).
- Torch connector. The Euro connector provided the external connection for the welding torch.
- Work return lead connection. This socket allows connection of the work return lead to the front of the machine.
- 14. 400V input cable.
- 15. Gas input connection.
- Bottle retention strap.



5.0 Installation

Read entire installation section before starting installation.

SAFETY PRECAUTIONS

- · ELECTRIC SHOCK can kill.
- · Only qualified personnel should perform this installation.
- Only personnel that have read and understood the Operating Manual should install and operate this equipment.
- Machine must be grounded per any national, local or other applicable electrical regulations.
- The MIG power switch is to be in the OFF position when installing work cable and torch and when connecting other equipment.

5.1 Unpacking the Machine

Cut banding and lift off cardboard carton. Cut banding holding the machine to the skid. Remove corrugated packing material. Remove accessories from Gas Bottle Platform.. Roll the machine off the skid

5.2 Location

Locate the welder in a dry location where there is free circulation of clean air into the louvres in the back and out the front. A location that minimizes the amount of smoke and dirt drawn into the rear louvres reduces the chance of dirt accumulation that can block air passages and cause overheating.

5.3 Input and Grounding Connection WARNING

Before starting the installation, check that your power supply is adequate for the voltage, amperage, phase, and frequency specified on the Machine nameplate.

The 400 volt 50 Hz machine is supplied with a 4m input cable and without plug, ensure that you connect a plug that is suitably rated for the power draw of the machine and the environmental location.

Have a qualified electrician connect the input plug. For long runs over 30m, larger copper wires should be used. The green/yellow wire in the input cable connects to the frame of the machine. This ensures proper grounding of the machine when the machine plug is inserted into the receptacle.

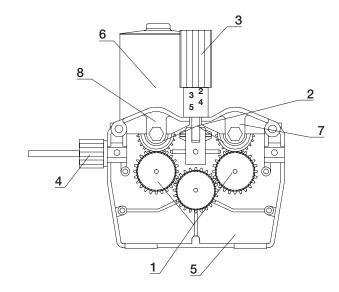
5.4 Output Polarity Connections

The welder, as shipped from the factory, is connected for electrode positive (+) polarity. This is the normal polarity for MIG welding.

5.5 Changing drive roll sets

- 1. Turn off the power source.
- Release the pressure on the idle rolls by swinging the adjustable pressure arms down. Lift the cast idle roll assembly and allow it to sit in an upright position.
- Unscrew the plastic knob retaining the lower grooved drive roll and side off the drive roller.
- Ensure the wire size marked on the side of the feed roller matches the wire size to be used.
- Replace the drive rolls in reverse of the above procedure ensuring the wire size to be used is marked on the outward facing side of the roller as it is refitted.

NOTE: Be sure that the torch liner and contact tip are also sized to match the selected wire size.



- 1. Feeding rolls
- 2. Pressure roll
- 3. Pressure adjustment
- 4. Wire inlet
- 5. Plate
- Motor 42 V, 50 W
- 7. Pressure arm right
- 8. Pressure arm left

5.6 Welding wire installation

- Open the Wire Drive Compartment Door by lifting the 2 finger catches on the side panel.
- Unscrew the plastic retaining wheel from the end of the spool holder shaft.
- 3. Position the wire spool so that it will rotate in a direction when feeding so as to be de-reeled from the bottom of the coil.
- 4. Slide the wire spool all the way onto the shaft and refit the plastic retaining nut.

Note:- There is a friction brake on the reel hub assembly to prevent the wire spool over running when welding stops ensure the this is slackened to the minimum setting. I can be adjusted by means of the nut visible when the plastic nut is removed.

- 5. Turn the Spool until the free end of the electrode is accessible. While securely holding the electrode, cut off the bent end and straighten the first six inches. (If the electrode is not properly straightened, it may not feed properly through the wire drive system Manually feed the wire from the wire reel and through the wire guide and then over the top of the wire feed rollers (ensure the pressure arms are in the raised position.)
- Continue to feed the wire through the outlet guide until 20mm of wire is protruding from the front of the machine torch connector.
- Reposition the adjustable pressure arms to there original position to apply pressure. Adjust pressure as necessary.

Note:- the pressure arm should be adjusted in order to give the minimum amount of pressure on the wire to allow reliable feeding,



5.7 Torch installation

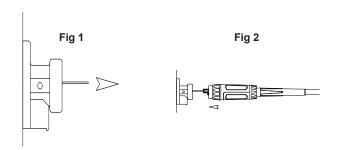
Your Parweld MIG/MAG Welding Torch has been supplied ready to weld. It has been supplied with the standard consumables denoted in the product brochure.

To connect the torch to the power source:-

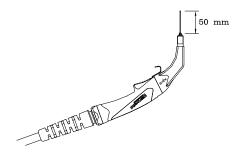
- Remove the tip adaptor and contact tip
- Inch the wire from the exit of the wire guide on the feed unit as Figure 1. Ensure that it does not short out on any machine panels.
- Carefully slide the electrode wire into the torch liner and slowly locate the torch gun plug body into the feed unit central connector and tighten the gun plug nut as Figure 2

Note:- To aid the initial location of a new torch and to prevent damage to the gas nipple O-ring a very light application of grease to the O Ring is beneficial.

- Keeping the torch as straight as possible, use the power source inch facility or torch trigger to feed the electrode wire 50mm from the end of the liner conduit.
- Once the electrode wire has stopped, refit the tip adaptor, diffuser, contact tip and gas nozzle.
- Trim the electrode wire to within 5mm of the face of the nozzle, this will facilitate jolt free arc initiation.



- Press the gas purge button and check the gas flow is adequate for your application.
- An inexpensive flow meter is available from Parweld reference 806001.
- If you are setting a water-cooled torch ensure you have the recommended water flow rate.



Parweld recommend the use of its XTS water recirculation system designed specifically for use with all water cooled MIG, TIG and Plasma welding torches.

The Parweld XTS recirculation equipment can be fitted with a failsafe flow protection device to prevent overheating or meltdown.

Note. Water flows into the torch through the blue hose. The blue hose delivers cold water directly to the prime source of heat, the swan neck and consumables. The re circulated water is then passed through the torch power cable to cool the power cable as it is returned to the cooler through the red water return lead.

Ensure all air is removed from the water cooling circuit before welding.

5.8 Work return lead connection

Insert the work return lead connector into the receptacle on the front panel of the machine and twist it clockwise until tightly secured.

Connect the earth clamp to the work piece as close as possible to

Connect the earth clamp to the work piece as close as possible to the point to be welded and ensure that a good electrical connection is created to bare metal.

5.9 Shielding gas connection

- Using the gas hose supplied connect the hose to the gas inlet connection on the rear of the machine and tighten it with a spanner
- Connect the opposite end of the gas hose to the output connection of a gas regulator capable of supplying the correct gas flow for the welding operation.

Note:- if the gas cylinder is to be stored on the back of the machine ensure it is secured using the retention chain provided



6.0 Operation

- 1. Switch on the machine using the switch no the front panel.
- Turn the "VOLTAGE SELECTOR" switches Set voltage midway between high/low voltages.

Note:- Check that drive rolls, and torch parts are correct for the wire size and type being used.

- 3. The optimum idle roll pressure varies with type of wire, wire diameter, surface conditions, lubrication, and hardness. As a general rule, hard wires may require greater pressure, and soft, or aluminium wire, may require less pressure than the factory setting. The optimum idle roll setting can be determined as follows:
- Press end of gun against a solid object that is electrically isolated from the welder output and press the gun trigger for several seconds
- 5. If the wire "bird nests", jams or breaks at the drive roll, the idle roll pressure is too great. Back the adjustment knob out 1/2 turn, run new wire. If the only result was drive roll slippage, loosen the Hand nut on the central connector and pull the gun forward about 6" (15cm) away from the power source. There should be a slight waviness in the exposed wire. If there is no waviness, the pressure is too low. Tighten the adjustment knob 1/4 turn, reinstall the gun cable and repeat the above steps.

6.1 Feeding wire electrode

Note:- when triggering, the electrode and drive mechanism are electrically "LIVE" relative to work and ground and remain "LIVE" several seconds after the gun trigger is released.

WARNING

When using an open arc process, it is necessary to use correct eye, head, and body protection.

- Position wire over joint. The end of the wire may be lightly touching the work.
- Lower welding helmet, operate gun trigger, and begin welding. Hold the gun so the contact tip to work distance is about 3/8" (10 mm).
- To stop welding, release the gun trigger and then pull the gun away from the work after the arc goes out.
- When no more welding is to be done, close valve on gas cylinder (if used), momentarily operate gun trigger to release gas pressure and turn off the machine.

6.2 Optimising weld parameters

Note:- These settings are guidelines only. Material and wire type, joint design, fit up, position, shielding gas, etc. affect settings. Produce test welds to be sure they comply to specifications.

Material thickness determines weld parameters.

- Convert Material Thickness to Amperage (A) (0.25mm= 1 Amp)
 3.2mm = 125 A
- 2. Select Wire Size

Amperage Range Wire Size 40 - 145 A 0.8 mm 50 - 180 A 1.0 mm 75 - 250 A 1.2 mm

3. Select Wire Speed (Amperage)

 Wire Size
 Feed speed

 0.8 mm
 0.05m/min per Amp

 1.0 mm
 0.04m/min per Amp

 1.2 mm
 0.025m/min per Amp

So based on 3.2 mm material thickness amperage should be 125A if using 1.0mm wire then the wire feed speed should be

0.04 X 125= 5m/min

Wire speed (amperage) controls weld penetration

4. Select Voltage. Voltage controls height and width of weld bead.

Low Voltage: wire stubs into work High Voltage: arc is unstable (spatter)

Set voltage midway between high/low voltages.

And then fine tune accordingly

Note:- These settings are guidelines only. Material and wire type, joint design, fit up, position, shielding gas, etc. affect settings. Produce test welds to be sure they comply to specifications.

Material thickness determines weld parameters.

6.3 Additional welding controls

Burn back adjustment. when welding at high amperages the wire can often burn back onto or close to the contact tip to prevent this happening you can increase the burn back control (8).

Soft Start. The soft start control slows the acceleration of the wire feed motor as the act starts and so reduces wire snubing and spatter at the weld start. This control should be adjusted to give a smoother start to the weld. (9).



7.0 Fault Finding

Problem	Cause/Corrective Action
Porosity - small cavities or holes Resulting from gas pockets in weld metal.	Inadequate shielding gas coverage. Check for proper gas flow rate.
	Remove spatter from gun nozzle.
	Check gas hoses for leaks.
	Eliminate drafts near welding arc.
	Place nozzle 6-13 mm from work piece Hold gun near bead at end of weld until molten metal solidifies.
	Wrong gas. Use welding grade shielding gas; change to different gas.
	Dirty welding wire. Use clean, dry welding wire. Eliminate pickup of oil or lubricant on welding wire from feeder or liner.
	Work piece dirty. Remove all grease, oil, moisture, rust, paint, coatings, and dirt from work surface before welding. Use a more highly deoxidizing welding wire (contact supplier).
	Welding wire extends too far out of nozzle.
	Be sure welding wire extends not more than 13 mm beyond nozzle.

Problem	Cause/Corrective Action
Incomplete fusion to base metal	Work piece dirty. Remove all grease, oil, moisture, rust, paint, coatings, and dirt from work surface before welding.
	Insufficient heat input. Select higher voltage range and/or adjust wire feed speed.
	Improper welding technique. Place stringer bead in proper locations) at joint during welding.
	Adjust work angle or widen groove to access bottom during welding.
	Momentarily hold arc on groove side walls when using weaving technique.
	Keep arc on leading edge of weld puddle. Use correct gun angle of 0 to 15 degrees.
Excessive Penetration – weld metal melting through base metal and hanging underneath weld.	Excessive heat input. Select lower voltage range and reduce wire feed speed. Increase travel speed.
	morodoo davor opood.
Lack Of Penetration - shallow Fusion between weld metal and Base metal.	Improper joint preparation. Material too thick. Joint preparation and design must provide access to bottom of groove while maintaining Proper welding wire extension
	and arc characteristics.
	Improper weld technique. Maintain normal gun angle of 0 to 15 degrees to achieve maximum penetration. Keep arc on leading edge of weld puddle. Ensure welding wire extends not more than 13 mm beyond nozzle.
	Insufficient heat input. Select higher wire feed speed and/or select higher voltage range.
	Reduce travel speed.
Burn-Through - weld metal melting Completely through base metal	Excessive heat input. Select lower voltage range and reduce wire feed speed.
Resulting in holes where no metal remains.	Increase and/or maintain steady travel speed.



Problem	Cause/Corrective Action
Excessive Spatter - scattering of	Wire feed speed too high.
Molten metal particles that cool	Select lower wire feed speed.
to solid form near weld bead.	Voltage too high. Select lower voltage range.
	Electrode extension (stick out) too long. Use shorter electrode extension (sick out).
	Work piece dirty. Remove all grease, oil, moisture, rust, paint, undercoating, and dirt from work surface before welding.
	Insufficient shielding gas at welding arc. Increase flow of shielding gas at regulator/flow meter and/or prevent drafts near welding arc.
	Dirty welding wire. Use clean, dry welding wire. Eliminate pickup of oil or lubricant on welding wire from feeder or liner.
Wire feed unit operates but no	Gas cylinder empty
gas flow .	Gas regulator closed
	Faulty solenoid
	Restriction in torch cables
Wire feed unit operates, but does not feed	Insufficient drive roll pressure
does not leed	Incorrect drive rolls
	Excessive wire spool brake tension
	Incorrect liner
	Blocked liner
	Bird nesting Burn back
Dind a pating	Excessive feed roll pressure
Bird nesting	Incorrect or blocked liner
	Incorrect contact tip size
	Contact tip overheating
	Restriction in torch cable
	Misaligned drive rolls or wire guides
	Excessive cable kinkage
Burn back	Improper voltage setting
	Improper stick out
	Erratic wire feed
	Incorrect or blocked liner
	Contact tip overheating
	Excessive cable kinking
	Adjust the burn back control correctly

Problem	Cause/Corrective Action
Erratic Wire Feeding or Arc	Improper drive roll tension
_	Improper drive roll size
	Worn drive rolls
	Incorrect or blocked liner
	Incorrect wire guide size
	Misaligned drive rolls or wire guide
	Gaps at liner or wire guide junctions
	Incorrect contact tip size
	Contact Tip overheating
	Spatter adhesion on exit geometry of tip bore
	Excessive cable kinkage
	Poor earth or cable connections
	Weld joint area dirty
Yellow temperature light illuminates	Power source has over heated leave the machine running to allow it to cool down. Ensure entry and exit vents on machine are clear and machine has a good supply of cooling air. Reduce operating duty cycle and or amperage.

8.0 Accessories

8.1 Drive rolls

Wire	0.8/1.0	1.0/1.2	1.2/1.6
Mild steel	DR4V0810	DR4V1012	DR4V1216
Stainless Steel	DR4V0810	DR4V1012	DR4V1216
Aluminium	DR4U0810A	DR4U1012A	DR4U1216A
Flux Cored	DR4K0810	DR4K1012	DR4K1216

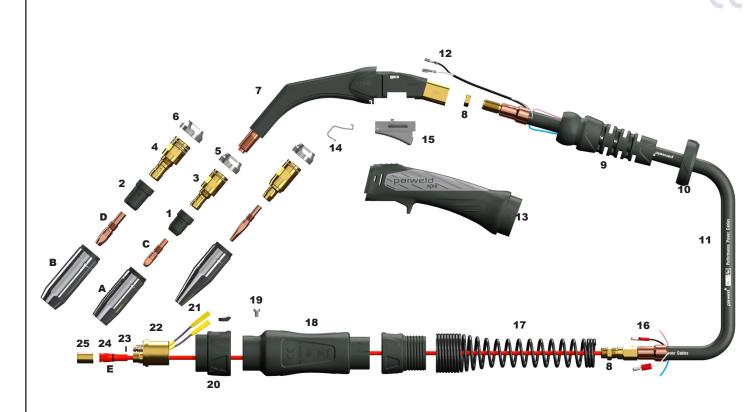


8.2 Torch Spares

XP8 300A

Air Cooled MIG Welding Torch

Rating: 300A, 8.7kW, Mixed Gas (80/20) @ 80% Duty Cycle, EN60974-7 .030-.045"/0 0.8mm to 1.2mm wires





Model				
Stock Code	3M	4M	5M	Model Description
XP300A	-30E	-40E	-50E	Welding Torch c/w Euro Fitting

	Nozzles	
	Stock Code	Description
A	XP2002-10	Tapered Nozzle 3/8"/10mm
	XP2002-13	Tapered Nozzle 1/2"/13mm
	XP2002-16*	Conical Nozzle 5/8"/16mm
	XP2002-16L	Conical Nozzle 5/8"/16mm-Extended
	XP2002-19	Cylindrical Nozzle 3/4"/19mm
	XP2002-19L	Cylindrical Nozzle 3/4"/19mm-Extended
В	XP3002-13	Tapered Nozzle 1/2"13mm
	XP3002-16	Conical Nozzle 5/8"/16mm
	XP3002-16L	Conical Nozzle 5/8"/16mm-Extended
	XP3002-19	Cylindrical Nozzle 3/4"/19mm
	XP3002-19L	Cylindrical Nozzle 3/4"/19mm-Extended

	Contact Tips	
	Stock Code	Description
C	XP2003-08	Contact Tip .030"/0.8mm M8 CuCrZr
	XP2003-09	Contact Tip .035"/0.9mm M8 CuCrZr
	XP2003-10	Contact Tip .040"/1.0mm M8 CuCrZr
	XP2003-10A	Contact Tip .040"/1.0mm Aluminium M8 CuCrZr
	XP2003-12*	Contact Tip .045"/1.2mm M8 CuCrZr
	XP2003-12A	Contact Tip .045"/1.2mm Aluminium M8 CuCrZr
	XP2003-13	Contact Tip .052"/1.3mm M8 CuCrZr
D	XP3003-08	Contact Tip .030"/0.8mm M10 CuCrZr
	XP3003-09	Contact Tip .035"/0.9mm M10 CuCrZr
	XP3003-10	Contact Tip .040"/1.0mm M10 CuCrZr
	XP3003-10A	Contact Tip .040"/1.0mm Aluminium M10 CuCrZr
	XP3003-12	Contact Tip .045"/1.2mm M10 CuCrZr
	XP3003-12A	Contact Tip .045"/1.2mm Aluminium M10 CuCrZr
	XP3003-13	Contact Tip .052"/1.3mm M10 CuCrZr

Liners		
Ctaals Cada	Description	
Stock Code	Description	

E	XP2024-09-30	Steel Liner .023035"/0.6mm/0.9mm x 10ft/3m
	XP2024-09-40	Steel Liner .023035"/0.6mm/0.9mm x 13ft/4m
	XP2024-09-50	Steel Liner .023035"/0.6mm/0.9mm x 16ft/5mt
	XP2024-12-30*	Steel Liner .040045"/1.0mm/1.2mm x 10ft/3m
	XP2024-12-40*	Steel Liner .040045"/1.0mm/1.2mm x 13ft/4mt
	XP2024-12-50*	Steel Liner .040045"/1.0mm/1.2mm x 16ft/5m

NI XP2024PC-12-30Polyamide-Copper Liner

.030-.045"/0.8mm-1.2mm x 10ft/3mt

XP2024PC-12-40 Polyamide-Copper Liner

.030-.045"/0.8mm-1.2mm x 13ft/4m

XP2024PC-12-50 Polyamide-Copper Liner

.030-.045"/0.8mm-1.2mm x 16ft/5mt

XP2024PS-12-30 Polyamide-Steel Liner

.030-.045"/0.8mm-1.2mm x 10ft/3m

XP2024PS-12-40 Polyamide-Steel Liner

.030-.045"/0.8mm-1.2mm x 13ft/4m

XP2024PS-12-50 Polyamide-Steel Liner

.030-.045"/0.8mm-1.2mm x 16ft/5m

Note: For flux core wire 1.6mm liner is recommended – Stock Code: XP2023-16-30

	Components		
	Stock Code	Description	* Denotes Standard Build
1	XP2004B*	Diffuser-Plastic – M8 Head	
NI	XP2004C	Diffuser-Ceramic – M8 Hea	ad
2	XP3004B	Diffuser-Moulded c/w Ceramic Insert – M10 Head	
NI	XP3004C	Diffuser-Ceramic – M10 Head	
3	XP2005*	Head Assembly – M8 Tips	
4	XP3005	Head Assembly – M10 Tips	3
5	XP2006A*	Aluminium Heat Shield - M	l8 Head
NI	XP2006B	Heat Shield Moulded – M8	Head
6	XP3006A	Aluminium Heat Shield – M	I10 Head
NI	XP3006B	Heat Shield Moulded - M10	0 Head
7	XP3001	Swan Neck	
8	XP2016	Lock Nut M12	
9	XP3008	Ball Joint and Cable Suppo	ort
10	XP2009	Handle Lock Nut	
11	XP3010-30	Cable Assembly x 3m/10ft	
	XP3010-40	Cable Assembly x 4m/13ft	
	XP3010-50	Cable Assembly x 5m/16ft	
12	XP2011	Cable Terminal Female	
13	XP2012	Handle Kit c/w Lock Nut	
14	XP2013	Hanger Hook	
15	XP2014	Trigger	
16	XP2015	Cable Terminal Male	
17	XP3017	Cable Support	
18	XP2018	Air Cooled Gun Plug Housi	ng c/w Nut
19	XP2019	Gun Plug Screw	
	XP2020	Gun Plug Nut	
21	Spring Pin 2	Spring Pin Assembly	
22	XP2022	Gun Plug Body c/w Spring	Pins
23	XP2023	Gun Plug Body O Ring	
24	XP2025	Liner Nipple O Ring	
25	XP2026	Liner Retaining Nut	



8.3 Gas equipment

Everyday Gas Regulators - 300 BAR

Single Stage

Features

Flow rate up to 96m3/h (3389 ft3/h)

- · Full 300 bar capability
- · Outlet pressure indicated on the bonnet
- Bottom entry design suited for top outlet cylinder valves

Fittings

- Fitted with standard 3/8" BSP outlet
- Fitted with 5/8" BSP inlet connections



Stock Code E700140	Description Argon Preset Regulator	Max Outlet Pressure 3.0 Bar
E700141	Argon Indicator Regulator	3.0 Bar
E700113	1 Gauge Argon	30 lpm flow
E700123	2 Gauge Argon	30 lpm flow

Flow Meters

Features

- Designed from brass bar whilst the tube and cover are moulded from high quality polycarbonate to ensure high impact resistance and clarity
- Calibrated to operate at an inlet pressure of 30PSI
- Sensitive needle valve provides easy adjustment and the downward facing outlet connection eliminates hose kinking.

Fittings

• Fitted with standard 3/8" BSP inlet and outlet connections



Stock Code Description

706101 Flow Meter Mixed Gas 25 lpm (MIG)

Gas flow Tester

 \bullet Designed to check gas flow at the front of MIG Torches.

Stock Code	Description
806001	Gas flow Tester





9.0 EC Declaration of Conformity

Hereby we declare that the machines as stated below

Type: XTM 304C

Conform to the EC Directives:

Low Voltage Directive 2014/35/EEC

EMC Directive 2014/35/EEC

Harmonised European standard: EN/IEC 60974-1, EN/IEC 60974-10

This is to certify that the tested sample is in conformity with all provisions of the above detailed EU directives and product standards.



9.1 RoHS Compliance Declaration

Directive 2011/65/EU of the European Parliament

Amended 2015/863 and 2017/2102

Restriction of use of certain hazardous substances in electrical and electronic equipment

Type: XTM 304C

The above listed products are certified to be compliant with the RoHS directive with all homogeneous component parts being controlled to ensure material contents as per the list below.

Cadmium 0.01% by weight

Lead 0.1% by weight

Mercury 0.1% by weight

Hexavalent chromium 0.1% by weight

Polybrominated biphenyl's (pbbs) 0.1% by weight

Polybrominated diphenyl ethers (pbdes) 0.1% by weight

It should be noted that under specific exempted applications, where lead is used as an alloying element the following limits are applied in accordance with the regulations.

Copper and copper alloy parts use less than 4% by weight of each homogeneous component.

Steel and steel alloy parts use less than 4% by weight of each homogeneous component.

Aluminium and aluminium alloy parts use less than 4% by weight of each homogeneous component.



Only dispose off in authorised sites for electrical and electronic waste do not dispose of with general refuse or landfill waste.



9.2 WEEE Statement

WEEE (Waste Electrical & Electronic Equipment) 2012/19/EU

In relation to implementing the legislation, Parweld has established relevant recycling and recovery methods. We have been fully compliant against the marking requirements since August 2005. Parweld is registered in the UK with the Environment agency as detailed below. For WEE compliance outside the UK please contact your supplier/Importer

Parweld is registered with a compliance scheme Official registration number is WEE/FD0255QV

When your equipment reaches the end of its service life you should return it to Parweld where it will be reconditioned or processed for recycling.

9.3 Statement of Warranty

Limited Warranty:

Parweld Ltd, hereafter, "Parweld" warrants its customers that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the Parweld products as stated below, Parweld shall, upon notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with Parweld's specifications, instructions, recommendations and recognized standard industry practice, and not subject to misuse, repair, neglect, alteration, or accident, correct such defects by suitable repair or replacement, at Parweld's sole option, of any components or parts of the product determined by Parweld to be defective.

Parweld makes no other warranty, express or implied. This warranty is exclusive and in lieu of all others, including, but not limited to any warranty of merchantability or fitness for any particular purpose.

Limitation of Liability:

Parweld shall not under any circumstances be liable for special, indirect or consequential damages, such as, but not limited to, lost profits and business interruption. The remedies of the purchaser set forth herein are exclusive and the liability of Parweld with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by Parweld whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based. No employee, agent, or representative of Parweld is authorized to change this warranty in any way or grant any other warranty.

Purchaser's rights under this warranty are void if replacement parts or accessories are used which in Parweld's sole judgement may impair the safety or performance of any Parweld product.

Purchaser's rights under this warranty are void if the product is sold to purchaser by non-authorized persons.

The warranty is effective for the time stated below beginning on the date that the authorized Distributor delivers the products to the purchaser. Notwithstanding the foregoing, in no event shall the warranty period extend more than the time stated plus one month from the date Parweld delivered the product to the authorized distributor.

Main Transformers and Rectifiers 2 Years

Other machine parts 2 year

Parweld Limited Bewdley Business Park Long Bank Bewdley Worcestershire England DY12 2TZ

Tel. +44 1299 266800

www.parweld.co.uk info@parweld.co.uk