



# **XTS166 RC**

# OPERATOR MANUAL ISSUE 2



# 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: 2000 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 manufacturer 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.

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.

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 lense 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.

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 hands.

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) recommendations.

# 2.0 Product Description

This welding machine is manufactured using advanced inverter technology. The input voltage is rectified to DC and then inverted to high frequency AC voltage. before being converted back to DC for the output .This allows the use of a much smaller transformer and so allowing weight saving and improved power efficiency.

# 3.0 Technical Specifications

Input voltage	110V +/- 10%	230V +/- 10%
Frequency	50/60Hz	50/60Hz
Input current	21.3A max 16.5 eff	14.4A max 9.1 eff
Fuse rating	32A	16A
Max output (MMA)	125A @ 40%	160A @ 40%
	95A @ 60%	125A @ 60%
	75A @ 100%	100A @ 100%
Output OCV	80 (55)	80 (55)





# 4.0 Description of Controls

- 1) ON OFF Switch for switching on or off the mains supply to the machine. Note the output of the machine is permanently on unless the on/off switch is in the off position.
- 2) Fault light This indicates a fault or over temperature condition with the machine refer to the fault finding section for further information.
- 3) Power light This indicates mains power is applied to the machine and that the machine is currently switched on when the light is illuminated.
- 4) Digital current display, shows the preset amperage and actual welding amperage during welding.
- 5) Remote control connection allows the connection of a remote control device for remote current control.
- 6) Mode selector switch for selecting between MMA and Lift TIG operation.
- 7) Output power control knob for adjustment of the power output of the machine in LIFT-TIG or MMA mode.
- 8) Output power connection (Negative) this is the 50mm Dinse connection socket for the connection of the negative welding lead.
- 9) Output power connection + (Positive) this is the 50mm Dinse connection socket for the positive welding lead.

# 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 power switch is to be in the OFF position when installing work cable and electrode cable and when connecting other equipment.

## 5.1 Unpacking the Machine

Carefully remove the machine from the packaging, we recommend you retain the packaging until the machine has been fully installed and tested incase it has been damaged in transit and has to be returned to the re-seller.

#### 5.2 Location

Be sure to locate the welder according to the following guidelines:

In areas, free from moisture and dust.

Ambient temperature between 0-40°C.

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.

Place at a distance of 12" (300 mm) or more from walls or similar that could restrict natural airflow for cooling.

# 5.3 Input and grounding connection

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

Operate the welding power source from a single-phase 50/60 Hz, AC power supply. The XTS166 RC machine can be used on 230v or 110V supply without modifiying the machine in any way.

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**

Electrode polarity

MMA electrodes are generally connected to the '+' terminal and the work lead to the '-'terminal

But if in doubt consult the electrode manufacturer's literature.

IF TIG welding the torch should always be connected to the '-' terminal



#### 5.5 Torch installation

MMA cable connections

Connect electrode lead to positive terminal

TIG welding cable connection

Connect the TIG torch to the - terminal

#### 5.6 Work return lead connection

MMA cable connections

Connect work lead to negative terminal

TIG welding

Connect the work return lead to the + terminal

# 6.0 Operation

#### WARNING

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

## 6.1 MMA Welding Guide

Effects of MMA welding various materials

#### High tensile and alloy steels

The two most prominent effects of welding these steels are the formation of a hardened zone in the weld area, and, if suitable precautions are not taken, the occurrence in this zone of under-bead cracks. Hardened zone and under-bead cracks in the weld area may be reduced by using the correct electrodes, preheating, using higher current settings, using larger electrodes sizes, short runs for larger electrode deposits or tempering in a furnace.

#### Manganese steels

The effect on manganese steel of slow cooling from high temperatures is enbrittlement. For this reason it is absolutely essential to keep manganese steel cool during welding by quenching after each weld or skip welding to distribute the heat.

#### Cast iron

Most types of cast iron, except white iron, are weldable. White iron, because of its extreme brittleness, generally cracks when attempts are made to weld it. Trouble may also be experienced when welding white-heart malleable, due to the porosity caused by gas held in this type of iron.

#### Copper and alloys

The most important factor is the high rate of heat conductivity of copper, making preheating of heavy sections necessary to give proper fusion of weld and base metal.

#### Types of electrodes

Arc welding electrodes are classified into a number of groups depending on their applications. There are a great number of electrodes used for specialized industrial purposes which are not of particular interest for everyday general work. These include some low hydrogen types for high tensile steel, cellulose types for welding large diameter pipes, etc. The range of electrodes dealt with in this publication will cover the vast majority of applications likely to be

encountered; are all easy to use and all will work on even the most basic of welding machines.

Metals being joined & electrode comments

Mild steel

6013 ideal electrodes for all general purpose work. Features include outstanding operator appeal, easy arc starting and low spatter.

#### Mild steel

7014 all positional electrode for use on mild and galvanized steel furniture, plates, fences, gates, pipes and tanks etc. Especially suitable for vertical down welding.

#### Cast iron

99% nickel suitable for joining all cast irons except white cast iron Stainless steel

318I-16 high corrosion resistance. Ideal for dairy work, etc. On stainless steels.

# 6.2 Basic TIG Welding guide

#### Tig welding cable connection

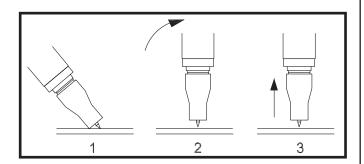
Connect the TIG torch to the - terminal and the work lead to the + terminal for direct current straight polarity. Direct current straight polarity is the most widely used polarity for DC TIG welding. It allows limited wear of the electrode since 70% of the heat is concentrated at the work piece. Connect the gas hose on the TIG torch to the gas outlet on the gas regulator. Move the selector switch on the front panel of the machine to the SCRATCH-TIG position.

#### Torch starting in SCRATCH-TIG mode

Ensure the gas supply is switched on and gas is flowing from the front of the torch nozzle. Briefly contact the tip of the tungsten electrode down onto the work piece with the torch at around  $70^{\circ}$  from vertical, lift the torch up from the work piece to draw out an arc. To prevent melting of the end of the tungsten so this in a smoth rapid movement

TIG welding guide ranges

Electrode diameter	DC current (amps)
0.040" (1.0mm)	30 – 60
1/16" (1.6mm)	60 – 115
3/32" (2.4mm)	100 – 165





## Tungsten electrode types

Electrode type	Welding application	Colour code
Thoriated 2%	DC welding of mild steel, stainless steel and copper. Excellent arc starting, long life, high current carrying capacity.	RED
Ceriated 2%	DC welding of mild steel, stainless steel, copper, aluminium, their alloys longer life, more stable arc, easier starting, wider current range, narrower more concentrated arc	GREY

### Guide for selecting filler wire diameter

Filler wire diameter	DC current range
1/16" (1.6 mm)	20 - 90
3/32" (2.4 mm)	65 - 115
1/8" (3.2 mm)	100 - 165
3/16" (4.8 mm)	200-350

The filler wire diameter specified is a guide only, other diameter wires may be used according to the welding application

## Shielding gas selection

Alloy	Shielding gas	
Aluminium & alloys	Pure Argon	
Carbon steel	Pure Argon	
Stainless steel	Pure Argon	
Nickel alloy	Pure Argon	
Copper	Pure Argon	
Titanium	Pure Argon	

# 7.0 Fault Finding

### MMA welding problem

Description	Possible cause	Remedy
Gas pockets or voids in weld metal (porosity)	<ul><li>(a) Electrodes are damp</li><li>(b) Welding current is too high.</li><li>(c) Surface impurities such as oil, grease, paint, etc</li></ul>	(a) Dry electrodes before use (b) Reduce welding current
	,	(c) Clean joint before welding
Crack occurring in weld metal soon after solidification.	<ul><li>(a) Rigidity of joint.</li><li>(b) Insufficient throat thickness.</li><li>(c) Cooling rate is too high.</li></ul>	(a) Redesign to relieve weld joint of severe stresses or use crack resistance electrodes. (b) Travel slightly slower to allow greater build up in throat.
		(c) Preheat plate and cool slowly.
A gap is left by failure of the weld metal to fill the root of the weld	<ul><li>(a) Welding current is too low.</li><li>(b) Electrode too large for joint.</li><li>(c) Insufficient gap</li><li>(d) Incorrect sequence</li></ul>	(a) Increase welding current (b) Use smaller diameter electrode. (c) Allow wider gap (d) Use correct buildup sequence
Portions of the weld run do not fuse to the surface of the metal or edge of the joint.	(a) Small electrodes used on heavy cold plate (b) Welding current is too low (c) Wrong electrode angle (d) Travel speed of electrode is too high (e) Scale or dirt on joint surface	(a) Use larger electrodes and preheat the plate (b) Increase welding current (c) Adjust angle so the welding arc is directed more into the base metal (d) Reduce travel speed of electrode (e) Clean surface before welding.



Description	Possible cause	Remedy
Non-metallic particles are trapped in the weld metal (slag inclusion).	(a) Non-metallic particles may be trapped in undercut from previous run (b) Joint preparation too restricted (c) Irregular deposits allow slag to be trapped. (d) Lack of penetration with slag trapped beneath weld bead. (e) Rust or mill scale is preventing full fusion. (f) Wrong electrode for position in which welding is done.	(a) If bad undercut is present, clean slag out and cover with a run from a smaller diameter electrode. (b) Allow for adequate penetration and room for cleaning out the slag (c) If very bad, chip or grind out Irregularities (d) Use smaller electrode with sufficient current to give adequate penetration. Use suitable tools to remove all slag from corners (f) Use electrodes designed for position in which welding is done, otherwise proper control of slag is difficult.

TIG	welding	problems
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Weld quality is dependent on the selection of the correct consumables, maintenance of equipment and proper welding technique.

Description	Possible Cause	Remedy
Excessive bead build up or poor penetration or poor fusion at edges of weld	Welding current is too low	Increase weld current and/or faulty joint preparation
Weld bead too wide and flat or undercut at edges of weld or excessive burn through	Welding current is too high	Decrease weld current

Description	Possible Cause	Remedy
Weld bead too small or insufficient penetration or ripples in bead are widely spaced apart	Travel speed too fast	Reduce travel speed
Weld bead too wide or excessive bead build up or excessive penetration in butt joint	Travel speed too slow	Increase travel speed
Uneven leg length in fillet joint	Wrong placement of filler rod	Re-position filler rod
Electrode melts when arc is struck	Electrode is connected to the '+' terminal	Connect the electrode to the '-' terminal
Dirty weld pool	(a) Electrode contaminated through contact with work piece or filler rod material (b) Gas contaminated with air	(a) Clean the electrode by grinding off the contaminates (b) Check gas lines for cuts and loose fitting or change gas cylinder
Electrode melts or oxidizes when an arc is struck	(a) No gas flowing to welding region (b) Torch is clogged with dust (c) Gas hose is cut (d) Gas passage contains impurities (e) Gas regulator is turned off (f) Torch valve is turned off (g) The electrode is too small for the welding current	(a) Check the gas lines for kinks or breaks and gas cylinder contents (b) Clean torch (c) Replace gas hose (d) Disconnect gas hose from torch then raise gas pressure to blow out impurities. (e) Turn on (f) Turn on (g) Increase electrode diameter or reduce the welding current
Poor weld finish	Inadequate shielding gas	Increase gas flow or check gas line for gas flow problems



Description	Possible Cause	Remedy
Arc flutters during TIG welding	(a) Tungsten electrode is too large for the welding current (b) Absence of oxides in the Weld pool.	(a) Select the right size electrode. Refer to basic TIG welding guide. (b) Refer basic TIG welding guide for ways to reduce arc flutter
Welding arc cannot be established	(a) Work clamp is not connected to the work piece or the work/torch leads are not connected to the machine (b) Torch lead is disconnected (c) Gas flow incorrectly set, cylinder empty or the torch valve is off	a) Connect the work clamp to the work piece or connect the work/torch leads to the right welding terminals. (b) Connect it to the '.' terminal. (c) Select the right flow rate, change cylinders or turn torch valve on.
Arc start is not smooth	<ul> <li>(a) Tungsten electrode is too large for the welding current.</li> <li>(b) The wrong electrode is being used for the welding job.</li> <li>(c) Gas flow rate is too high.</li> <li>(d) Incorrect shielding gas is being used.</li> <li>(e) Poor work clamp connection to work piece</li> </ul>	(a) Select the right size electrode (b) Select the right electrode type. Refer to basic TIG welding guide (c) Select the correct rate for the welding job. Refer to basic TIG welding guide (d) Select the right shielding gas. Refer to basic TIG welding guide (e) Improve connection to work piece

## Power source problems

Description	Possible cause	Remedy
The welding arc cannot be established	(a) The primary supply voltage has not been switched on	(a) Switch on the primary supply voltage
	(b) The welding power source switch is switched off	(b) Switch on the welding power source.
	(c) Loose connections internally	(c) Have a qualified service engineer repair the connection
Maximum output welding current cannot be achieved with nominal mains supply voltage	Defective control circuit	Have a qualified service engineer inspect then repair the welder
Welding current reduces when welding	Poor work lead connection to the work piece	Ensure that the work lead has a reliable electrical connection to the work piece

Description	Possible cause	Remedy
A total loss of power, pilot	(a) Failure of input voltage	(a) Re-establish mains supply
lamp is off, no output, the fan is not operating	(b) Possible over voltage (c) Internal fault with the machine	(b) Check voltage and if necessary move machine to alternative supply
		(c) Have a qualified service engineer inspect then repair the welder
Fault lamp is on, no power	(a) Machine overheated (b) Over current state	(a) Allow to cool with fan running
output	(c) Internal fault with machine	(b) Switch off mains power to the machine and re start
		(c) Have a qualified service engineer inspect
		then repair the welder

### **ROUTINE MAINTENANCE**

The only routine maintenance required for the power supply is a thorough cleaning and inspection, with the frequency depending on the usage and the operating environment.

#### Warning

Disconnect primary power at the source before removing the cover. Wait at least two minutes before opening the cover to allow the primary capacitors to discharge.

To clean the unit, remove the screws securing the outer cover, lift off the outer cover and use a vacuum cleaner to remove any accumulated dirt and dust. The unit should also be wiped clean, if necessary; with solvents that are recommended for cleaning electrical apparatus.



# 8.0 Accessories

# 8.1 Torch Spares

Stock Code	Description	
CKE203	Electrode Holder with 3m Lead	
CKC203	Earth Lead 3m with Clamp	
WP17V-12-2I	Scratch Start Tig Torch	
WP17AK	Tig Spares Kit in Plastic Case	

# 8.2 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



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



Stock Code	Description	<b>Maximum Outlet Pressure</b>
E700140	Argon Preset Regulato	or 3.0 Bar
E700141	Argon Indicator Regul	ator 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.

#### Fittinas

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

Stock Code	Description
706100	Flow Meter Mixed Gas 15 lpm

# **8.3 Remote Control**

Remote control pendant allows full amptage range adjustment

Stock Code	Description
RC1040-19	Remote Pendant with 4m lead and plug



# WP17 Air Cooled TIG Welding Torch



/alved Tig Torch c/w 2 Piece Power Cable and dinse connection WP17V-12-2-IX WP17V-25-2-IX	Model		
	Description		25ft (7.6m)
	Whater that was a second of the second of th	MD471/40.0.11/	M/D471/ 05 0 1V
	Valved Fig Torch c/w 2 Piece Power Cable and dinse connection  Valved Flexible neck Tig Torch c/w 2 Piece Power Cable and dinse connection	WP17V-12-2-IX WP17VFX-12-2-IX	WP17V-25-2-IX WP17VFX-25-2-IX



	Standard Colle	et
	Stock Code	Description
١	10N21	Standard Collet .020"/0.5mm Bore
	10N22	Standard Collet .040"/1.0mm Bore
	10N23	Standard Collet 1/16"/1.6mm Bore
	10N23M	Standard Collet 5/64"/2.0mm Bore
	10N24	Standard Collect 3/32"/2.4mm Bore
	10N25	Standard Collet 1/8"/3.2mm Bore
	54N20	Standard Collet 5/32"/4.0mm Bore
	Standard Colle	et Body
	Stock Code	Description
3	10N29	Standard Collet Body. 020"/0.5mm Bore
	10N30	Standard Collet Body. 040"/1.0mm Bore
	10N31	Standard Collet Body 1/16"/1.6mm Bore
	10N32	Standard Collet Body 3/32"/2.4mm Bore
	10N28	Standard Collet Body. 1/8"/3.2mm Bore
	406488	Standard Collet Body 5/32"/4.0mm Bore
	Standard Cera	nmic Cup
	Stock Code	Description
C	10N50	Standard Ceramic Cup 1/4"/6mm Bore
	10N49	Standard Ceramic Cup 5/16"/8mm Bore
	10N48	Standard Ceramic Cup 3/8"/10mm Bore
	10N47	Standard Ceramic Cup 7/16"/11mm Bore
	10N46	Standard Ceramic Cup 1/2"/13mm Bore
	10N45	Standard Ceramic Cup 5/8"/16mm Bore
	10N44	Standard Ceramic Cup 3/4"/1"mm Bore
	Standard Long	g Ceramic Cup
	Stock Code	Description
D	10N49L	Long Ceramic Cup 5/16"/8mm Bore
	10N48L	Long Ceramic Cup 3/8"/10mm Bore
	10N47L	Long Ceramic Cup 7/16"/11mm Bore
	Stubby Series	Collet
	Stock Code	Description
Ε	10N21S	Stubby Collet .020"/0.5mm Bore
	10N22S	Stubby Collet .040"/1.0mm Bore
	10N23S	Stubby Collet 1/16"/1.6mm Bore
	10N24S	Stubby Collet 3/32"/2.4mm Bore
	1011270	
	10N25S	Stubby Collet 1/8"/3.2mm Bore
		Stubby Collet 1/8"/3.2mm Bore
	10N25S	Stubby Collet 1/8"/3.2mm Bore
	10N25S  Stubby Collet	Stubby Collet 1/8"/3.2mm Bore  Body
	10N25S  Stubby Collet  Stock Code	Stubby Collet 1/8"/3.2mm Bore  Body  Description  Stubby Collet Body .020-1/8 Bore
F	10N25S Stubby Collet Stock Code 17CB20	Stubby Collet 1/8"/3.2mm Bore  Body  Description  Stubby Collet Body .020-1/8 Bore
	10N25S Stubby Collet Stock Code 17CB20 Stubby Series	Stubby Collet 1/8"/3.2mm Bore  Body  Description  Stubby Collet Body .020-1/8 Bore  Ceramic Cup
	10N25S  Stubby Collet  Stock Code  17CB20  Stubby Series  Stock Code	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup Description
	10N25S  Stubby Collet  Stock Code  17CB20  Stubby Series  Stock Code  13N08	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore
	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore
	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore
	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10 13N11	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 7/16"/11mm Bore
	10N25S  Stubby Collet  Stock Code  17CB20  Stubby Series  Stock Code  13N08  13N09  13N10  13N11  13N12  13N13	Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 1/2"/13mm Bore Standard Ceramic Cup 5/8"/16mm Bore
	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10 13N11 13N12	Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 1/2"/13mm Bore Standard Ceramic Cup 5/8"/16mm Bore
G	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10 13N11 13N12 13N13 Gas Lens Bod	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 1/2"/13mm Bore Standard Ceramic Cup 5/8"/16mm Bore
F G	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10 13N11 13N12 13N13 Gas Lens Bod Stock Code	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 1/2"/13mm Bore Standard Ceramic Cup 5/8"/16mm Bore Standard Ceramic Cup 5/8"/16mm Bore Standard Ceramic Cup 5/8"/16mm Bore  Open Standard Ceramic Cup 5/8"/16mm Bore  Description  Gas Lens Body .020"/0.5mm Bore
G	Stubby Collet Stock Code 17CB20 Stubby Series Stock Code 13N08 13N09 13N10 13N11 13N12 13N13 Gas Lens Bod Stock Code 45V29	Stubby Collet 1/8"/3.2mm Bore  Body  Description Stubby Collet Body .020-1/8 Bore  Ceramic Cup  Description Standard Ceramic Cup 1/4"/6mm Bore Standard Ceramic Cup 5/16"/8mm Bore Standard Ceramic Cup 3/8"/10mm Bore Standard Ceramic Cup 7/16"/11mm Bore Standard Ceramic Cup 1/2"/13mm Bore Standard Ceramic Cup 5/8"/16mm Bore

Gas Lens Body 3/32"/2.4mm Bore

Gas Lens Body 1/8"/3.2mm Bore

45V26

45V27

	Standard Gas I	ens Cup
	Stock Code	Description
ı	54N18	Standard Gas Lens Cup 1/4"/6mm Bore
	54N17	Standard Gas Lens Cup 5/16"/8mm Bore
	54N16	Standard Gas Lens Cup 3/8"/10mm Bore
	54N15	Standard Gas Lens Cup 7/16"/11mm Bore
	54N14	Standard Gas Lens Cup 1/2"/13mm Bore
	54N19	Standard Gas Lens Cup 1 1/16"/17mm Bore
	Long Gas Lens	Cun
	Stock Code	Description
J	54N17L	Long Gas Lens Cup 5/16"/8mm Bore
J	54N16L	Long Gas Lens Cup 3/10 /offin Bore
	54N15L	Long Gas Lens Cup 7/16"/11mm Bore
	0 111102	Long Guo Edito Gup 7710 71111111 Boto
	Large Diamete	r Gas Lens Body
	Stock Code	Description
K	45V116	Large Diameter Gas Lens Body 1/16"/1.6mm Bore
	45V64	Large Diameter Gas Lens Body 3/32"/2.4mm Bore
	995795	Large Diameter Gas Lens Body 1/8"/3.2mm Bore
	Large Diamete	r Gas Lens Cup
	Stock Code	Description
L	57N75	Large Diameter Gas Lens Cup 3/8"/10mm Bore
_	57N74	Large Diameter Gas Lens Cup 1/2"/13mm Bore
	53N88	Large Diameter Gas Lens Cup 5/8"/16mm Bore
	53N87	Large Diameter Gas Lens Cup 3/4"/1"mm Bore
	Components	
	Stock Code	Description
-	Stock Code 18CG	Description Cup Gasket
2	Stock Code 18CG 18CG20	Description Cup Gasket Cup Gasket for Stubby Collet Body
3	<b>Stock Code</b> 18CG 18CG20 54N01	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG)
2 3 4	<b>Stock Code</b> 18CG 18CG20 54N01 54N63	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG)
2 3 4 5	<b>Stock Code</b> 18CG 18CG20 54N01	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket
2 3 4 5	<b>Stock Code</b> 18CG 18CG20 54N01 54N63 WP17	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring
2 3 4 5 6 7	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket
2 3 4 5 6 7	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long
2 3 4 5 6 7 8	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short
2 3 4 5 6 7 8 9	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous
2 3 4 5 6 7 8 9 NI	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft
2 3 4 5 6 7 8 9 NI 10	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot
2 3 4 5 6 7 8 9 NI 10	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot
2 3 4 5 6 7 8 9 NI 10	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft
2 3 4 5 6 7 8 9 NI 10 11 NI	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft
2 3 4 5 6 7 8 9 NI 10 11 NI 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft Handle
2 3 4 5 6 7 8 9 NI 10 11 NI 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Handle Insulation Boot
2 3 4 5 6 7 8 9 NI 10 11 NI 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft Handle
2 3 4 5 6 7 8 9 NI 10 11 11 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Vinyl
2 3 4 5 6 7 8 9 NI 10 11 NI 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y03	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Vinyl Power Cable x 7.6mt/25ft Vinyl
2 3 4 5 6 7 8 9 NI 10 11 NI 12	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y03  57Y01R	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Vinyl Power Cable x 3.8mt/12.5ft Rubber
2 3 4 5 6 7 8 9 NI 10 11 11 11 11 11 11 11 11 11 11 11 11	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y01  57Y03  57Y01R  57Y03R  57Y01-2  57Y03-2	Description Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Vinyl Power Cable x 3.8mt/12.5ft Rubber Power Cable x 7.6mt/25ft Rubber
2 3 4 5 6 7 8 9 NI 10 11 11 11 11 11 11 11 11 11 11 11 11	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y01  57Y03R  57Y01-2  57Y03-2  WP17V	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Rubber Power Cable x 7.6mt/25ft Rubber Power Cable x 3.8mt/12.5ft 2 Piece Power Cable x 7.6mt/25ft 2 Piece Torch Body Valve
2 3 4 5 6 7 8 9 NI 10 11 11 12 13 14 15 16 17	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y03  57Y01R  57Y03R  57Y01-2  57Y03-2  WP17V  VS-2	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Vinyl Power Cable x 7.6mt/25ft Rubber Power Cable x 7.6mt/25ft Rubber Power Cable x 3.8mt/12.5ft 2 Piece Power Cable x 7.6mt/25ft 2 Piece Torch Body Valve Valve Stem
2 3 4 5 6 7 8 9 NI 10 11 11 11 11 11 11 11 11 11 11 11 11	Stock Code  18CG  18CG20  54N01  54N63  WP17  98W18  57Y02  57Y04  950  950F  950-40  950-80  RDZ0591  607664  609123  609125  105Z55  0315071  57Y01  57Y01  57Y03R  57Y01-2  57Y03-2  WP17V	Description  Cup Gasket Cup Gasket for Stubby Collet Body Gas Lens Insulator (use with 18CG) Insulator Large Diameter Gas Lens(use with 18CG) Torch Body including Cup Gasket Back Cap 'O' Ring Back Cap Long Back Cap Short Microswitch Bulbous Microswitch Flat Switch & Leads x 3.8mt/12.5ft Switch & Leads x 7.6mt/25ft Snap On Boot Rubber Boot Neoprene Sheath x 3.8mt/12.5ft Neoprene Sheath x 7.6mt/25ft Handle Insulation Boot Power Cable x 3.8mt/12.5ft Rubber Power Cable x 7.6mt/25ft Rubber Power Cable x 3.8mt/12.5ft 2 Piece Power Cable x 7.6mt/25ft 2 Piece Torch Body Valve



# 9.0 EC declaration of conformity

Hereby we declare that the machines as stated below

Type: XTS166 RC

Conform to the EC Directives: Low Voltage Directive 2014/35/EEC EMC Directive 2014/35/EEC

Harmonised European standard: EN/IEC 60974-1

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: XTS166 RC

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.





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