



# SET-UP AND MAINTENANCE GUIDE MULTIJUST SERIES



ARC M MULTIJUST SERIES



#### **MAKEWORK** LIFEEASIER

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#### **Multijust Industrial Series**

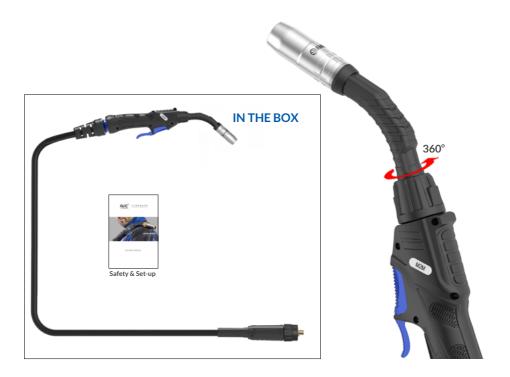
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M2M Air-Cooled Multijust Mig Welding Torch





Ideal for 0.8-1.0mm hard wires and industrial environments. Fitted with a longer neck with 360° rotation, perfect for multiple positions in difficult to reach areas.



# **TECHNICAL SPECIFICATIONS**

IEC/EN 60974-7

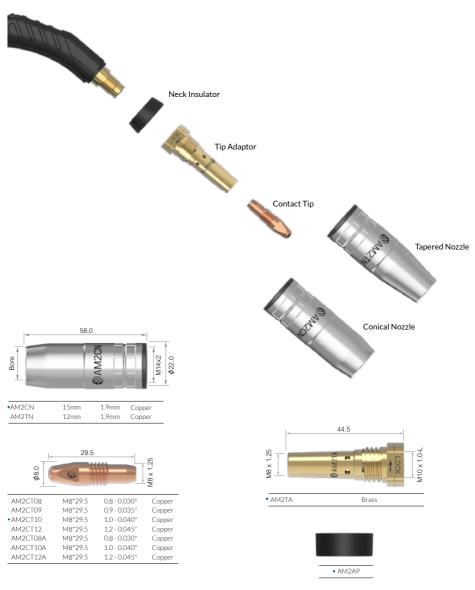
# M2M

Cooling Method		Air-Cooled
CO <sub>2</sub>		230A
Rating:	Mixed Gas M21	200A
	Pulse	110A
Duty Cy	cle	60%
Wire Size		0.8-1.2mm

# **M2M SET-UP GUIDE**



M2M Torches are supplied "ready to weld" with all wear parts fitted in accordance with the items listed below •



Denotes torch package standard wear part set-up

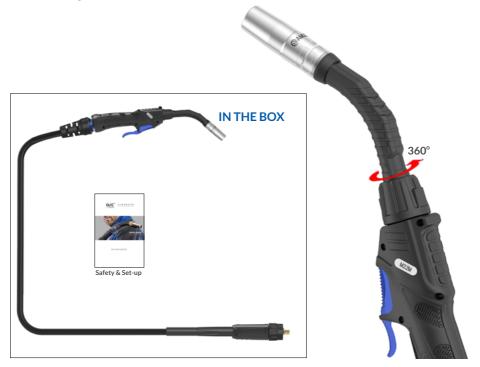
# M22M Air-Cooled Multijust Mig Welding Torch





A great all-round Industrial torch for high duty 200 Amp solid wires and low duty Pulse Mig Aluminium applications.

Fitted with a longer neck with 360° rotation, perfect for multiple positions in difficult to reach areas.



# **TECHNICAL SPECIFICATIONS**

IEC/EN 60974-7

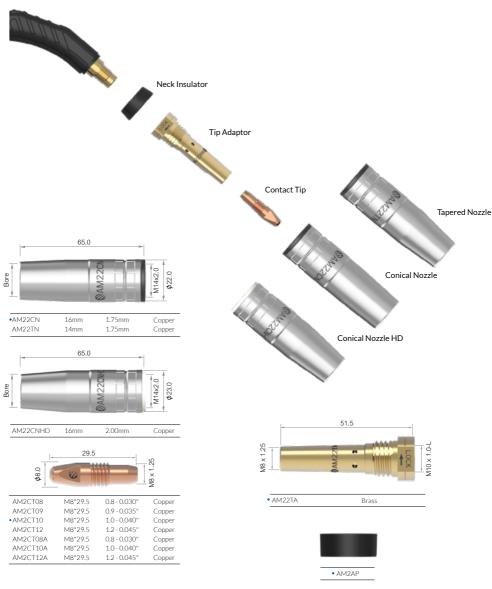
# M22M

Cooling Method		Air-Cooled
CO <sub>2</sub>		250A
Rating:	Mixed Gas M21	220A
	Pulse	120A
Duty Cyc	le	60%
Wire Size		0.8-1.2mm

# **M22M SET-UP GUIDE**



M22M Torches are supplied "ready to weld" with all wear parts fitted in accordance with the items listed below •



· Denotes torch package standard wear part set-up

# LINER OPTIONS



Note: Uses 4.0mm Wire Guide

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## Liners

#### **Filler Metal**

Steel Liner Recommended for: Fe, Fe-MC/FC. Light and medium duty applications

Part No.	Description	Wire Size	M2N	M22
AM1535-30	Steel Liner x 3mt	0.6-0.9	•	•
AM1535-40	Steel Liner x 4mt	0.6-0.9	•	•
AM1535-50	Steel Liner x 5mt	0.6-0.9	•	•
AM2524-30	Steel Liner x 3mt	1.0-1.2	•	•
AM2524-40	Steel Liner x 4mt	1.0-1.2	•	•
AM2524-50	Steel Liner x 5mt	1.0-1.2	•	•
AM2MJL	Neck Jump Liner - Hard Wire (L:170mm)	0.8-1.2	•	•
AM22MJL	Neck Jump Liner - Hard Wire (L:186.5mm)	0.8-1.2	•	•

AI - Soft Wire Liner Recommended for: Air-cooled torches with AIMg. Can be used for SS-MC/FC wires

AM1564A-30	Soft Wire Liner x 3mt	0.8-1.2	• •
AM1564A-40	Soft Wire Liner x 4mt	0.8-1.2	• •
AM1564A-50	Soft Wire Liner x 5mt	0.8-1.2	• •
AM2MJL-B	Neck Jump Liner - Soft Wire (L:170mm)	0.8-1.2	• •
AM22MJL-B	Neck Jump Liner - Soft Wire (L:186.5mm)	0.8-1.2	• •

# Soft Wire Liner Guide



#### Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire Liner. Optimum installation is achieved when using the Combi-liner set-up kit.

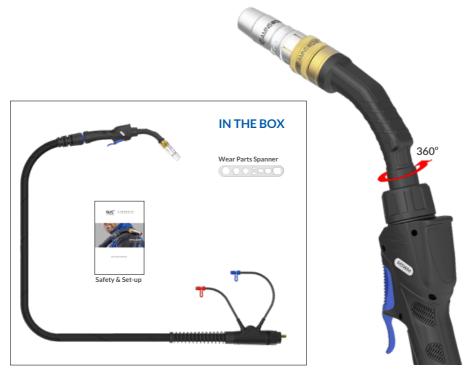
Standard wear part range
 Torch package standard wear part set-up

# M5WM



Liquid-Cooled Mig Welding Torch-Multijust

Ideal for heavy duty 1.2mm high deposition and pulse applications with all wire types. Fitted with a long neck with 360° rotation, perfect for multiple positions in difficult to reach areas.



# **TECHNICAL SPECIFICATIONS**

#### IEC/EN 60974-7

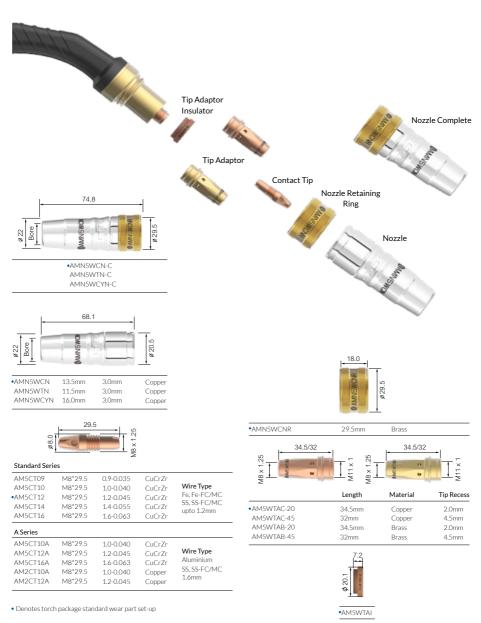
# M5WM

Cooling Method	Liquid-Cooled			
	Cooler Rating	Max. A	Pulse	Max. Load
	1600W	560A	-	24KW
Rating: CO <sub>2</sub>	1200W	540A	-	22KW
	1000W	510A	-	20KW
	1600W	540A	380A	22KW
Rating: Mixed Gas M21	1200W	520A	350A	21KW
	1000W	500A	340A	19.5KW
Duty Cycle		100%	100%	
	Filler Wires	Fe, Fe-MC / FC		0.9-1.6mm
Wire Size	Filler Wires	Ss, Ss-MC / FC		0.9-1.6mm
	Filler Wires	AI		1.0-1.6mm
Minimum Liquid Flow Rate		1.5 l/min		Important:
Minimum Liquid Inlet Pressure		2.5 Bar		Please note minimum inlet
Maximum Liquid Inlet Pressure		5.0 Bar		pressure and flow rate.
Maximum Liquid Inlet Temperature		50°C		Low pressure will affect torch
Operating Temperature Range		-10+40°C		performance

# **M5WM SET-UP GUIDE**



M5WM Torches are supplied "ready to weld" with all wear parts installed in accordance with the items listed below



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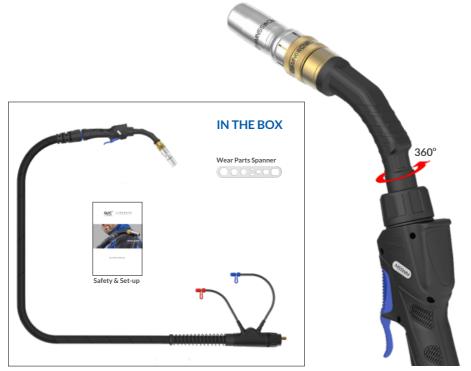
# M55WM



MAKE WORK LIFE EASIER

Liquid-Cooled Mig Welding Torch-Multijust

Ideal for all high deposition applications with high reflected heat. Fitted with a long neck with 360° rotation, perfect for multiple positions in difficult to reach areas.



# **TECHNICAL SPECIFICATIONS**

#### IEC/EN 60974-7

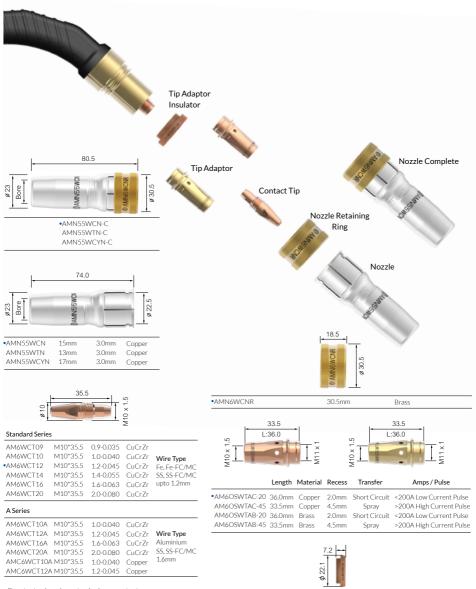
# **M55WM**

Cooling Method	Liquid-Cooled			
	Cooler Rating	Max. A	Pulse	Max. Load
	1600W	580A	-	25KW
Rating: CO <sub>2</sub>	1200W	550A	-	23KW
	1000W	520A	-	21KW
	1600W	560A	400A	23KW
Rating: Mixed Gas M21	1200W	530A	360A	21.5KW
1000W		510A	350A	20KW
Duty Cycle		100%	100%	
	Filler Wires	Fe, Fe-MC / FC		0.9-2.0mm
Wire Size	Filler Wires	Ss, Ss-MC / FC		0.9-1.6mm
	Filler Wires	AI		1.0-2.0mm
Minimum Liquid Flow Rate		1.5 l/min		Important:
Minimum Liquid Inlet Pressure		2.5 Bar		Please note minimum inlet
Maximum Liquid Inlet Pressure		5.0 Bar		pressure and flow rate.
Maximum Liquid Inlet Temperature		50°C		Low pressure will affect torch
Operating Temperature Range		-10+40°C		performance

# **M55WM SET-UP GUIDE**



M55WM Torches are supplied 'ready to weld' with an M10 set-up in accordance with the items listed below



Denotes torch package standard wear part set-up

•AM55WTAI

# LINER OPTIONS



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#### Liners

# Filler Metal Fe, Fe-MC/FC

Steel Liner Recommended for: Light and medium duty applications

			3	10
Part No.	Description	Wire Size	M5W	M55
AM6SL-1012-30	Steel Liner x 3mt	1.0-1.2	•	•
AM6SL-1012-40	Steel Liner x 4mt	1.0-1.2	•	•
AM6SL-1012-50	Steel Liner x 5mt	1.0-1.2	•	•
AM6SL-16-30	Steel Liner x 3mt	1.6	•	•
AM6SL-16-40	Steel Liner x 4mt	1.6	•	•
AM6SL-16-50	Steel Liner x 5mt	1.6	•	•
AM6SL-20-30	Steel Liner x 3mt	2.0	•	•
AM6SL-20-40	Steel Liner x 4mt	2.0	•	•
AM6SL-20-50	Steel Liner x 5mt	2.0	•	•

# Filler Metal SS, SS-MC/FC

Stainless Steel Liner Recommended for: Heavy Duty Fe. High amperages and heavy deposition welding				MM	SWM
Part No.	Description	Contact Tip	Wire Size	M5	M551
AM6SSTL-1012-30	Stainless Steel Liner x 3mt	Standard Series	1.0-1.2	•	•
AM65STL-1012-40	Stainless Steel Liner x 4mt	Standard Series	1.0-1.2	•	•
AM6SSTL-1012-50	Stainless Steel Liner x 5mt	Standard Series	1.0-1.2	•	•
AM6SSTL-16-30	Stainless Steel Liner x 3mt	A Series	1.6	•	•
AM6SSTL-16-40	Stainless Steel Liner x 4mt	A Series	1.6	•	•
AM6SSTL-16-50	Stainless Steel Liner x 5mt	A Series	1.6	•	•

# **Filler Metal**

Al - Polyamide Li	Al - Polyamide Liner					
Part No.	Description	Contact Tip	Wire Size	W	M55	
AM5PL-1012-30	Polyamide Liner x 3mt	A Series	1.0-1.2	•	•	
AM5PL-1012-40	Polyamide Liner x 4mt	A Series	1.0-1.2	•	•	
AM5PL-1012-50	Polyamide Liner x 5mt	A Series	1.0-1.2	•	•	
AM5PL-1620-30	Polyamide Liner x 3mt	A Series	1.6-2.0	•	•	
AM5PL-1620-40	Polyamide Liner x 4mt	A Series	1.6-2.0	•	•	
AM5PL-1620-50	Polyamide Liner x 5mt	A Series	1.6-2.0	•	•	

#### Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire Liner. Optimum installation is achieved when using the Combi-liner set-up kit.

• Standard wear part range • Torch package standard wear part set-up

# LINER OPTIONS



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## **Neck Jump Liners**

# Filler Metal Fe, Fe-FC/MC

				MNS	35W
Part No.	Description	Nipple	Wire Size	Ĕ	ž
AM5WMJL-1012	Neck Jump Liner - Hard Wire(L:181mm)	Brass Nipple	1.0-1.2	•	•
AM5WMJL-1620	Neck Jump Liner - Hard Wire(L:181mm)	Brass Nipple	1.6-2.0	•	•
AM55WMJL-1012	Neck Jump Liner - Hard Wire(L:184.8mm)	Brass Nipple	1.0-1.2	•	•
AM55WMJL-1620	Neck Jump Liner - Hard Wire(L:184.8mm)	Brass Nipple	1.6-2.0	•	•

#### Al, Copper, SS, SS-FC/MC

AM5WMJL-1012-B	Neck Jump Liner - Soft Wire(L:181mm)	Brass Nipple	1.0-1.2	• •
AM5WMJL-1620-B	Neck Jump Liner - Soft Wire(L:181mm)	Brass Nipple	1.6-2.0	• •
AM55WMJL-1012-B	Neck Jump Liner - Soft Wire(L:184.8mm)	Brass Nipple	1.0-1.2	• •
AM55WMJL-1620-B	Neck Jump Liner - Soft Wire(L:184.8mm)	Brass Nipple	1.6-2.0	• •

#### Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire Liner. Optimum installation is achieved when using the Combi-liner set-up kit.

• Standard wear part range • Torch package standard wear part set-up

# **AIR-COOLED SET-UP NECK LINER SET-UP**



Step 2

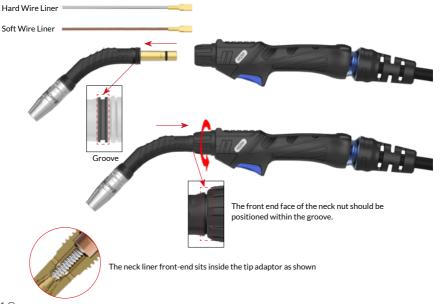
Hard Wire/Soft Wire

## Installing/Replacing a Neck Liner (Hard Wire To Soft Wire)

- Unscrew the neck nut anti-clockwise.
- Remove the swan neck by pulling it out.

Step 1 Unscrew

- Unscrew the existing neck liner and replace with new neck liner.
- Remove the liner retaining nut, and pull out the existing torch liner about 10cm.
- Ensure that the swan neck is located to the position (Groove) marked on the swan neck. Screw tight.
- No need to trim the neck liner.



# AIR-COOLED SET-UP TORCH LINER SET-UP - HARD WIRES



Step 1

# Installing a Torch Liner

#### **Prepare the Torch**

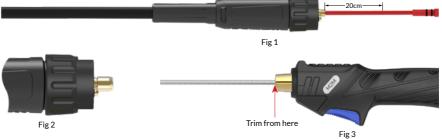
- Lay the torch out flat and straight.
- Unscrew swan neck retaining nut, pull out the swan neck and remove swan neck retaining nut.
- Remove the liner retaining nut, twist and pull out the old liner.

#### Important:

Liners should not be fitted if the torch is bent or coiled



Install the New Liner	Step 2
<ul> <li>Feed in the new liner in short strokes 20cm per time. (Fig 1)</li> </ul>	
<ul> <li>Continue to feed until the liner nipple is inside the gun plug body.</li> <li>Fit liner retaining nut. (Fig 2)</li> </ul>	
• Trim the excess steel liner align with swan neck holder's front end. (Fig 3)	
Important:	
Do not use a kinked liner	

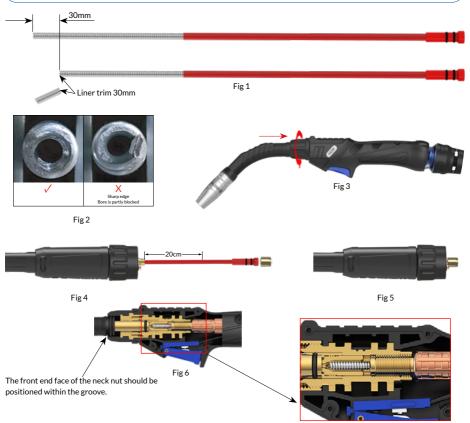




#### Install the New Liner



- Pull out the liner from the Torch, and trim liner 30mm from front end. (Fig 1)
- Remove sharp burr from any internal and external surfaces from liner front-end with a file or a grinder. (Fig 2)
- Assemble swan neck retaining nut to swan neck holder, assemble swan neck to swan neck holder. Be careful not to damage the O-Ring. Make sure the swan neck is in position. Finally tighten the swan neck retaining nut. (The torque is 5N.m) (Fig 3)
- Feed in the new liner in short strokes 20cm per time. (Fig 4)
- Fit liner nut. The torque is 2.5N.m. (Fig 5)
- The liner front-end sits inside the neck liner nipple as shown (Fig 6)



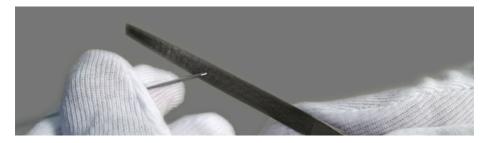


Step 1

## Feeding Wire Through the Torch

#### **Preparing the Wire**

- Inch the wire out through the machine by 15-20cm. Using a file remove all sharp burrs from the leading edge of the filler metal.
- Feed the wire directly into the torch liner, carefully pulling the torch towards the machine if necessary.
- Mount the torch to the machine or feed unit





#### Feeding the Wire Through the Torch



- Slowly inch the wire through the torch until it appears at the end of the tip adaptor.
- Feed the wire through the tip being careful not to scratch the bore.
- Tighten the contact tip and refit the nozzle.

# You are ready to weld!

# AIR-COOLED SET-UP TORCH LINER SET-UP - SOFT WIRES



The Arc M Combi liner system has been developed specifically for aluminium welding wires. It picks up the filler metal directly at the drive rolls and delivers it to the contact tip.

In order to achieve the most reliable torch performance and weld quality it is essential to follow the correct liner set-up procedure.



Optimum installation is achieved when using the Combi-liner set-up kit - stock code reference : AMCLST-KIT  $\ensuremath{\mathsf{C}}$ 



# Installing/Replacing a Neck Liner (Soft Wires)

- Lay the torch out flat and straight.
- Remove the liner retaining nut, pull out the old liner.
- Installing/Replacing a Neck Liner (Hard Wire/Soft Wire) see Page 12 "Neck Liner Set-Up"



Step 1

Step 2

### **Installing a Torch Liner**

#### Prepare the Torch

- Lay the torch out flat and straight.
- Unscrew swan neck retaining nut, pull out the swan neck and remove swan neck retaining nut.
- Remove the liner retaining nut, twist and pull out the old liner.

#### Important:

Liners should not be fitted if the torch is bent or coiled



#### Install the New Soft Wire Liner

- Use the liner sharpener provided to sharpen the front end of the liner. The sharpener is preset to the correct angle.
- Open the liner collet by twisting the two halves.
- Feed in the new soft wire liner in short strokes 20cm per time.
- Twist the handle if the liner sticks when feeding the liner through the swan neck.
- Continue to feed until the soft wire liner can be assembled in position.

### Important:

Do not use a kinked liner

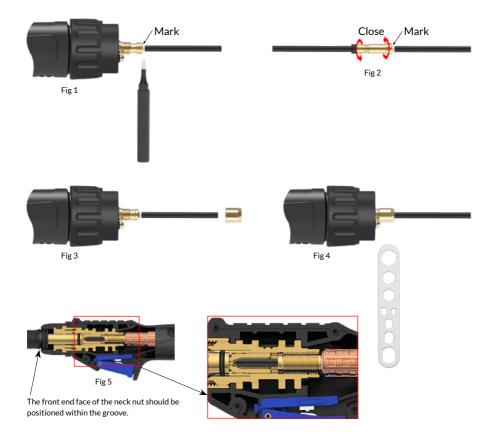




Step 3

#### Install the New Liner, Cont.

- Ensure the liner is under slight compression within the torch conduit. Mark the position at the rear of the liner collet (Fig 1).
- Retract the liner back slightly and position the collet by tightening it to the liner at the marked position (Fig 2).
- Reposition and tighten the liner retaining nut (Fig 3,4).
- The liner front-end sits inside the neck liner nipple as shown (Fig 5).





Step 1

## Preparing the Machine to Fit the Torch

# Measuring the Distance to the Drive Rolls Remove the old wire guide from the machine / wire feed unit if necessary. Insert the liner measuring jig supplied into the machine Euro socket as shown.

• Ensure there is no gap between the shoulder of the plastic gauge and the machine Euro socket.



#### Using the Liner Measuring Jig.

# Step 2

- Gently push the steel mandrel until the front-end touches the wire feed rollers.
- Remove the Jig from the machine ensuring there is no movement between the plastic gauge and the mandrel.





#### **Cutting and Trimming the Liner**

Step 3

- Offer the liner to the Jig and mark the point at the face of the plastic gauge.
- Cut the liner with the liner cutter provided.
- Use the liner sharpener provided to sharpen the leading edge of the liner.
- The sharpener is preset to the correct angle.

#### Important

The inner bore of the liner must be totally cylindrical and burr free.

Remove any overhanging material from the bore prior to installation.

#### Assemble Guide Tube

# Step 4

- Assemble brass guide tube over the soft wire liner.
- The brass guide tube is 3mm shorter than the soft wire liner(if not,cut accordingly).





Step 5

#### The Correct Set-up

- Refit the torch to the machine and tighten the torch lock nut slowly, being mindful of the interface between the end of the liner and the drive rolls.
- The liner should now sit close to the drive rolls.





Step 1

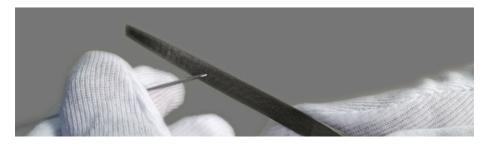
## Feeding Wire Through the Torch

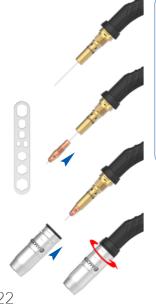
#### Important:

Remove the torch from the machine / feed unit

#### Preparing the Wire

- Inch the wire out through the machine by 15-20cm. Using a file remove all sharp burrs from the leading edge of the filler metal.
- Feed the wire directly into the torch liner, carefully pulling the torch towards the machine if necessary.
- Mount the torch to the machine or feed unit.





#### Feeding the Wire Through the Torch

Step 2

- Slowly inch the wire through the torch until it appears at the end of the tip adaptor.
- Feed the wire through the tip being careful not to scratch the bore.
- Tighten the contact tip and refit the nozzle.

# You are ready to weld!



Hard Wire/Soft Wire

# Installing/Replacing a Neck Liner (Hard Wire To Soft Wire)

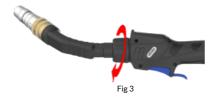
 Unscrew the neck nut anti-clockwise. Step 1 • Remove the swan neck by pulling it out. • Dry any excess water (this will prevent contamination of the torch liner). Dry any excess water • Unscrew the wear parts. (Fig 1) Step 2 Unscrew the existing neck liner. (Fig 2) Fig 2 Fig 1 Replace with new neck liner and tighten. (Fig 1) Step 3 • Assemble the wear parts. (Fig 2) • Coat lubricant grease to the inner and outer surface of the conductor tube. (Fig 3) Hard Wire Liner 📕 Soft Wire Liner Fig 3 Fig 1 Fig 2

# CHANGE / INSTALL / ADJUST SWAN NECK



- Screw swan neck to the swan neck holder. (Fig 1)
- Rotate the swan neck to the required angle (0°-360°) until the nut is 2mm from the handle. (Fig 2)
- Hold the neck still and tighten the nut.
- Rotate the swan swan neck to ensure the pins are in position (in the location holes).
- Screw tight. (Fig 3)





# MULTI-JUST SWAN NECK SET-UPS



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W

MAKE

F F

Different angles are required for different welding positions and the following are

recommended:

Desired angle (0°,30°,60°,-360°)

- Flat welding
- Horizontal and Vertical welding
- Overhead welding

PA Settings PG/PF Settings PE Settings





Torch continues to cool and recirculate the water whilst changing the neck or neck angle

# LIQUID-COOLED SET-UP TORCH LINER SET-UP - HARD WIRES



Step 1

Step 2

# **Installing a Torch Liner**

#### Prepare the Torch

- Lay the torch out flat and straight.
- Unscrew swan neck retaining nut, pull out the swan neck.
- Dry any excess water from the holder (this will prevent contamination of the torch liner).

(Fig 1)

• Remove the liner retaining nut, twist and pull out the old liner. (Fig 2)

#### Important:

Liners should not be fitted if the torch is bent or coiled



#### Install the New Liner

- Feed in the new liner in short strokes 20cm per time. (Fig 1)
- Continue to feed until the liner nipple is inside the gun plug body. Fit liner retaining nut. (Fig 2, 3)
- Trim the excess steel liner from 0-2mm of swan neck holder's front end. (Fig 4)

#### Important:

#### Do not use a kinked liner

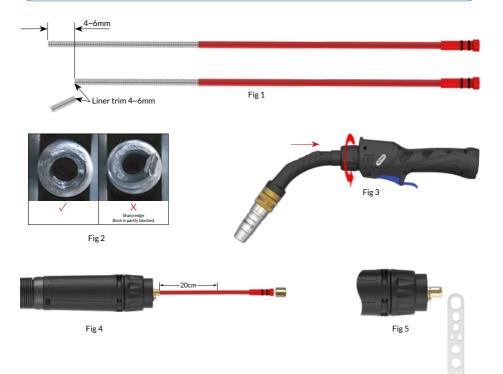




Step 3

#### Install the New Liner

- Pull out the liner from the Torch, and trim liner 4-6mm from front end. (Fig 1)
- Remove sharp burr from any internal and external surfaces from liner front-end with a file or a grinder. (Fig 2)
- Assemble swan neck to swan neck holder and screw tight. (Fig 3)
- Feed in the new liner in short strokes 20cm per time. (Fig 4)
- Fit liner nut. The torque is 2.5N.m. (Fig 5)





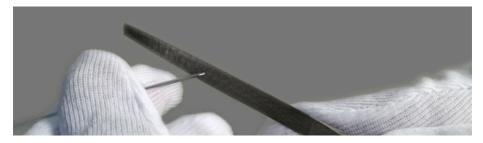
Step 1

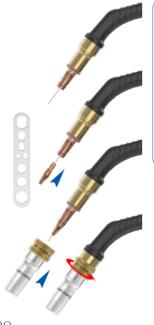
Step 2

## Feeding Wire Through the Torch

#### Preparing the Wire

- Inch the wire out through the machine by 15-20cm. Using a file remove all sharp burrs from the leading edge of the filler metal.
- Feed the wire directly into the torch liner, carefully pulling the torch towards the machine if necessary.
- Mount the torch to the machine or feed unit





#### Feeding the Wire Through the Torch

- Slowly inch the wire through the torch until it appears at the end of the tip adaptor.
- Feed the wire through the tip being careful not to scratch the bore.
- Tighten the contact tip and refit the nozzle.

# You are ready to weld!

# LIQUID-COOLED SET-UP TORCH LINER SET-UP - SOFT WIRES



The Arc M Combi liner system has been developed specifically for aluminium welding wires. It picks up the filler metal directly at the drive rolls and delivers it to the contact tip.

In order to achieve the most reliable torch performance and weld quality it is essential to follow the correct liner set-up procedure.



Optimum installation is achieved when using the Combi-liner set-up kit - stock code reference : AMOSW-LINER-T





Step 1

Step 2

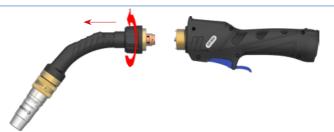
### **Installing a Torch Liner**

#### Prepare the Torch

- Lay the torch out flat and straight.
- Unscrew swan neck retaining nut, pull out the swan neck.
- Dry any excess water from neck holder.
- Remove the liner retaining nut, twist and pull out the old liner.

#### Important:

Liners should not be fitted if the torch is bent or coiled



#### Install the New Soft Wire Liner

- Use the liner sharpener provided to sharpen the front end of the liner. The sharpener is preset to the correct angle.
- Open the liner collet by twisting the two halves.
- Feed in the new soft wire liner in short strokes 20cm per time.
- Twist the handle if the liner sticks when feeding the liner through the swan neck.
- Continue to feed until the soft wire liner can be assembled in position.

#### Important:

Do not use a kinked liner

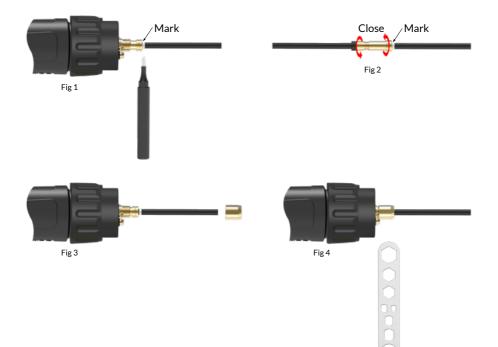




Step 3

#### Install the New Liner, Cont.

- Ensure the liner is under slight compression within the torch conduit. Mark the position at the rear of the liner collet. (Fig 1)
- Retract the liner back slightly and position the collet by tightening it to the liner at the marked position. (Fig 2)
- Reposition and tighten the liner retaining nut. (Fig 3, 4)
- The liner front-end sits inside the neck liner nipple as shown. (Fig 5)





## Preparing the Machine to Fit the Torch

#### Measuring the Distance to the Drive Rolls

Step 1

- Remove the old wire guide from the machine / wire feed unit if necessary.
- Insert the liner measuring jig supplied into the machine Euro socket as shown.
- Ensure there is no gap between the shoulder of the plastic gauge and the machine Euro socket.



#### Using the Liner Measuring Jig.

# Step 2

- Gently push the steel mandrel until the front-end touches the wire feed rollers.
- Remove the Jig from the machine ensuring there is no movement between the plastic gauge and the mandrel.





# MAKE WORK

#### **Cutting and Trimming the Liner**

Step 3

Step 4

- Offer the liner to the Jig and mark the point at the face of the plastic gauge.
- Cut the liner with the liner cutter provided.
- Use the liner sharpener provided to sharpen the leading edge of the liner.
- The sharpener is preset to the correct angle.

#### Important

The inner bore of the liner must be totally cylindrical and burr free.

Remove any overhanging material from the bore prior to installation.

#### The Correct Set-up

- Refit the torch to the machine and tighten the torch lock nut slowly, being mindful of the interface between the end of the liner and the drive rolls.
- The liner should now sit close to the drive rolls.

Combi wire liner
Important:
The back end of the liner should be close to the drive rolls without touching them.



Step 1

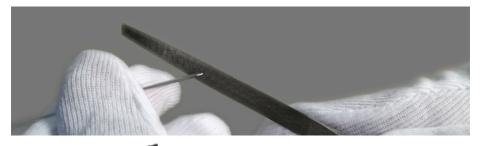
## Feeding Wire Through the Torch

#### Important:

Remove the torch from the machine / feed unit

#### Preparing the Wire

- Inch the wire out through the machine by 15-20cm. Using a file remove all sharp burrs from the leading edge of the filler metal.
- Feed the wire directly into the torch liner, carefully pulling the torch towards the machine if necessary.
- Mount the torch to the machine or feed unit.





#### Feeding the Wire Through the Torch

Step 2

- Slowly inch the wire through the torch until it appears at the end of the tip adaptor.
- Feed the wire through the tip being careful not to scratch the bore.
- Tighten the contact tip and refit the nozzle.

# You are ready to weld!



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