

ARC M MULTIJUST SERIES



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Multijust Industrial Series

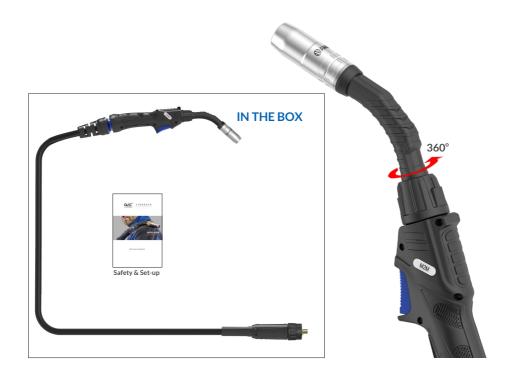
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Ideal for 0.8-1.0mm hard wires and industrial environments.

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



TECHNICAL SPECIFICATIONS

IEC/EN 60974-7

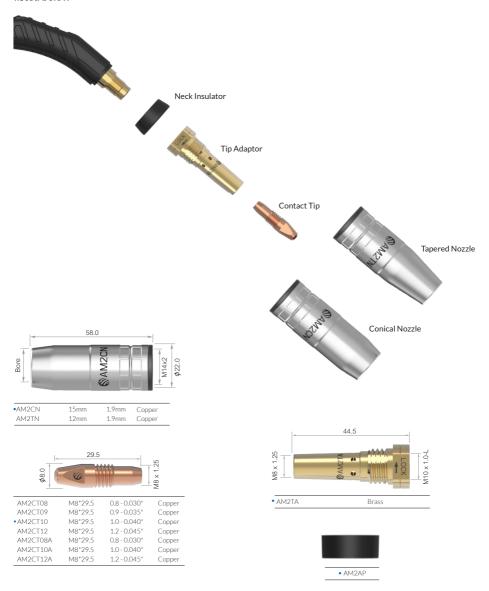
M₂M

Cooling Method		Air-Cooled
	CO ₂	230A
Rating:	Mixed Gas M21	200A
	Pulse	110A
Duty Cycle		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 ullet



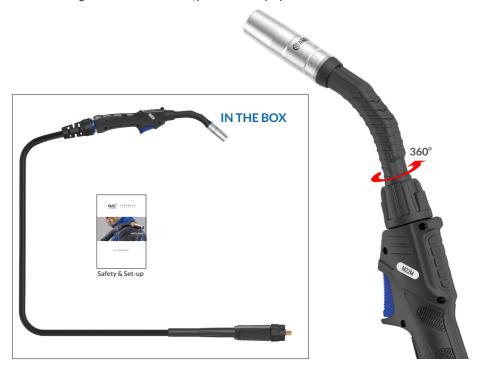
[•] Denotes torch package standard wear part set-up

$M22M_{\rm \ Air\text{-}Cooled\ Multijust\ Mig\ Welding\ Torch}$



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

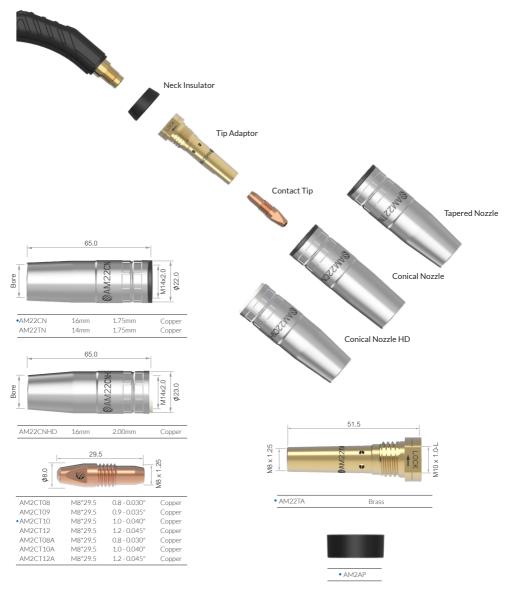
M22M

— — .	•	
Cooling Method		Air-Cooled
	CO ₂	250A
Rating:	Mixed Gas M21	220A
	Pulse	120A
Duty Cyc	cle	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 ullet



[•] Denotes torch package standard wear part set-up

LINER OPTIONS





Liners

Filler Metal

Steel Liner Recommended for: Fe, Fe-MC/FC. Light and medium duty applications		W: O:	Σ	N S
Part No.	Description	Wire Size	M2	M
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	• •	

Al - 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	• •





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

NECK LINER SET-UP



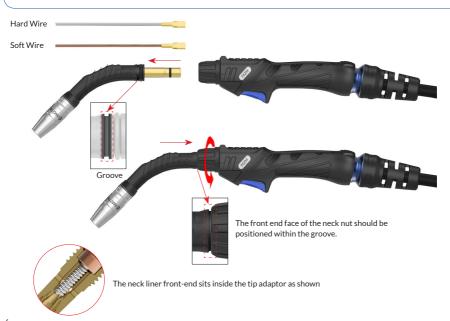


Installing/Replacing a Neck Liner (Hard Wire/Soft Wire)

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



- 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



TORCH LINER SET-UP - HARD WIRES





Installing a Torch Liner

Prepare the Torch

Step 1

- 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



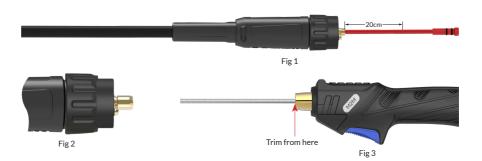
Install the New Liner

Step 2

- 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)
- Trim the excess steel liner align with swan neck holder's front end. (Fig 3)

Important:

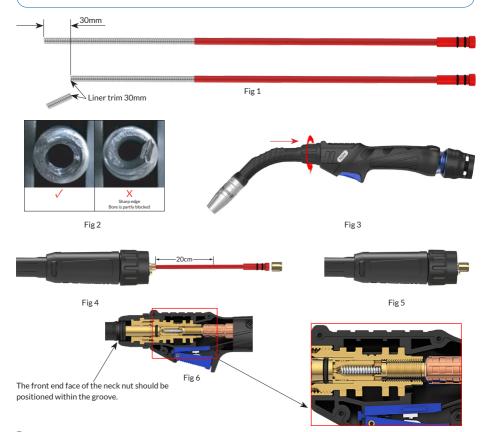
Do not use a kinked liner





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)



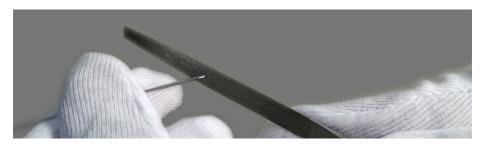


Feeding Wire Through the Torch

Preparing the Wire

Step 1

- 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!

TORCH LINER SET-UP - SOFT WIRES

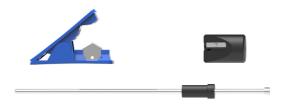


The Arc M Combi liner system has been developed specifically for aluminium welding wires. It picks up the filler metal directly at the drive rolls and delivers it to the contact tip.

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 : $\mathsf{AMCLST\text{-}KIT}$



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 (Soft Wires) see Page 6 "Neck Liner Set-Up"



Installing a Torch Liner

Prepare the Torch

Step 1

- 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

Step 2

- 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:

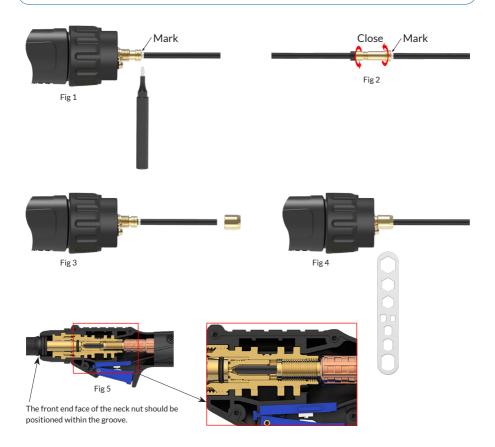
Do not use a kinked liner





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, Cont.

- 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.



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.





Feeding Wire Through the Torch

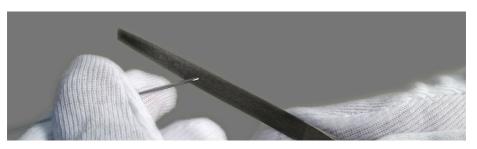
Important:

Remove the torch from the machine / feed unit

Step 1

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!

ARC M INDUSTRIAL MIG SERIES

Make Work Life Easier

MPA024 / 2023.0



