

SUREGRIP SMG
MIG/MAG SERIES



Welding Tools for the Professional

A Smart Approach

Parker Torchology is shaped by people with vision, a passion for improvement and a belief in delivering the very best Welding and Cutting Torch Range in the World.

We expect a great deal from our products, so we ask a lot of ourselves and our engineers.

Our mantra: **Innovation, Technology, Performance.**



DNA

Design and Engineering excellence are at the core of everything we do.

Every torch we build is driven by our relentless pursuit of perfection.

Premium Features

At Parker Torchology we do things differently, we strive to solve your problems with the perfect product to suit your needs. We create smart product features encased in cutting-edge design to ensure you always have the best tools to hand.





Production

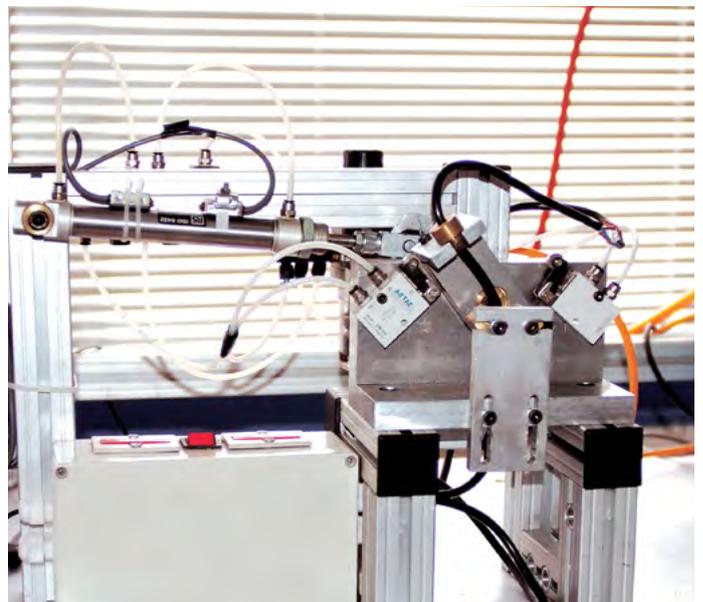
A fusion of precision production engineering, our bespoke processing techniques and a fanatical attention to detail ensures every welding torch we produce is worthy of the Parker Torchology name.

Testing, Testing, Testing

It takes patience to develop a new product, it's a lot more than a great idea.

Product development is an iterative process, trying something over and over, changing one small variable at a time.

We build endless prototypes and test pieces that undergo months of rigorous testing. Only once a product has passed up to 88 different test procedures, with every single part tested separately do we consider our latest designs ready for market.



Partners

Our customers and business partners play a vital role in our development. With the core aim to strive together, we work with end-users, distributors and academic institutions alike.

As a result we share fundamental values in order to succeed in our respective market places, supporting economic growth and collaborative opportunities with others.



A Bright Future

Technology doesn't stand still, which is why we are constantly innovating to bring you the best products on the market.

Our strong vision and focused innovation strategy, not to mention our passion to revolutionize the industry, ensure that Parker Torchology is a byword for excellence.

We Talk Torches

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Suregrip SMG Mig/Mag Torch Range

Air-Cooled Features Focus

Air-Cooled

A new series of torches produced for the South American markets with screw on nozzles and innovative lightweight cable sets.

Welding Tools for the Professional



100% Sumig Wear Parts Compatibility Guaranteed

Quality Wear Parts

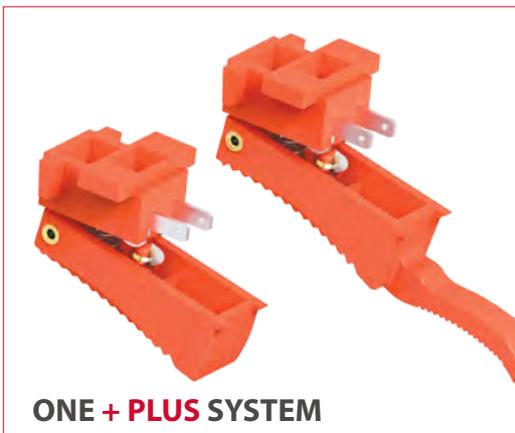
All wear parts are manufactured to the same specification as the original manufacturer ensuring reliability, longevity and superior performance

- Contact tips are manufactured using high quality copper alloys
- Self insulated, screw on nozzles

Ergonomics - For Comfort and Handleability

Every detail has been considered to ensure the welder has the very best handling experience

- Screwless designed handle with maximized soft grips for improved balance and positionability
- Torch handles disassemble in 5 seconds for rapid fault analysis
- Handles engineered to prevent trapped wires
- The addition of a knuckle joint enables small movements of the handle and neck independently of the cable assembly
- Cable supports are designed to combine flexibility with smooth and consistent wire feed



ONE + PLUS SYSTEM

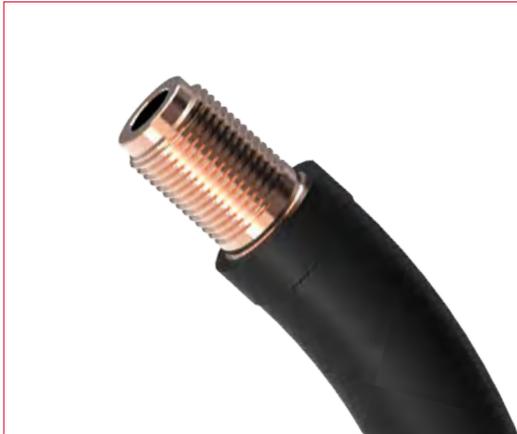
"Plug and Play" Configurability

One + Plus system configured to your exact needs

- "Plug and play" switch interchangeability in seconds! - try it!
- Switches are available with standard and extended lever options
- Micro-switch options for repetitive start/stop applications, digital power source control or harsh and dusty environments

Features Focus

World Class Welding Performance



Swan Necks

Engineered For Extended Service Life

- Polymer armoured neck for increased durability and insulation integrity

Superior Flexibility, Durability - and Lightweight

Duraflex Ultralite

- Duraflex Ultralite cable sets offer the ultimate in heat and abrasion resistance, with the added benefit of being 30%-40% lighter

30%-40% Lighter



Ease of Maintenance

Functionality and ease of repair

- Screwless design solutions. Euro housing sets ensure minimum downtime and productivity – No tools required!
- The Euro body has been redesigned to improve gas seal integrity in Argon applications
- Our spring pins – often copied,,, can't be beaten



The Smart Way To Buy Welding and Cutting Tools



Suregrip SMG Mig/Mag Torch Range

Ratings: 260 Amp to 330 Amp, Mixed Gas



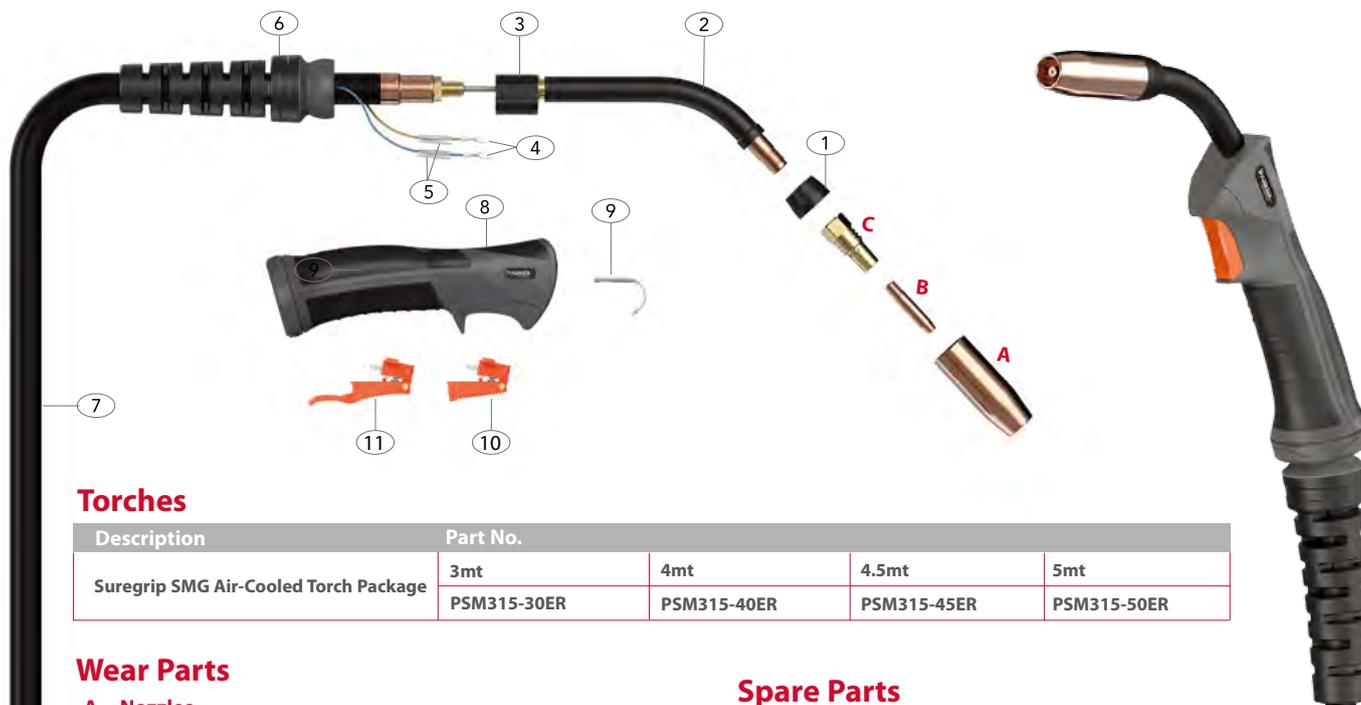
Model	SMG 315A	SMG 515A
Technical Data		
Cooling Method	Air-Cooled	Air-Cooled
Rating: CO ₂	300A	360A
Rating: Mixed Gas	260A	330A
Duty Cycle	60%	60%
Wire Size	0.8-1.2 / 0.030"-0.045"	0.8-1.6 / 0.030"-0.063"

Order Codes	3mt	4mt	4.5mt	5mt
	PSM315-30ER	PSM315-40ER	PSM315-45ER	PSM315-50ER
	PSM515-30ER	PSM515-40ER	PSM515-45ER	PSM515-50ER

SMG 315A Suregrip Mig/Mag Torch Range

Rating: 300A CO₂, 260A mixed gas, EN60974-7 @ 60% duty cycle. 0.8 to 1.2mm

Air-Cooled Mig Welding Torch



Torches

Description	Part No.			
Suregrip SMG Air-Cooled Torch Package	3mt	4mt	4.5mt	5mt
	PSM315-30ER	PSM315-40ER	PSM315-45ER	PSM315-50ER

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PSM-1053	Nozzle	11.0	2.0mm	Copper
PSM-1054	Nozzle	13.0	2.0mm	Copper
*PSM-1055	Nozzle	15.0	2.0mm	Copper
PSM-1239	Nozzle	17.0	2.0mm	Copper

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	inch
PSM-050	Contact Tip	Ecu	0.8	0.030"
PSM-051	Contact Tip	Ecu	0.9	0.035"
*PSM-052	Contact Tip	Ecu	1.0	0.040"
PSM-053	Contact Tip	Ecu	1.2	0.045"

C Tip Adaptors

Part No.	Description	Material
*PSM-1101	Tip Adaptors	Brass

D Liners

Part No.	Description	Length	Wire Size	
			mm	inch
*PSM1535-30B	Steel Liner x 3mt	3.4mt	0.8-1.0	0.030"-0.040"
PSM1535-40B	Steel Liner x 4mt	4.4mt	0.8-1.0	0.030"-0.040"
PSM1535-45B	Steel Liner x 4.5mt	4.9mt	0.8-1.0	0.030"-0.040"
PSM1535-50B	Steel Liner x 5mt	5.4mt	0.8-1.0	0.030"-0.040"
PSM2524-30B	Steel Liner x 3mt	3.4mt	1.2	0.045"
PSM2524-40B	Steel Liner x 4mt	4.4mt	1.2	0.045"
PSM2524-45B	Steel Liner x 4.5mt	4.9mt	1.2	0.045"
PSM2524-50B	Steel Liner x 5.4mt	5.4mt	1.2	0.045"

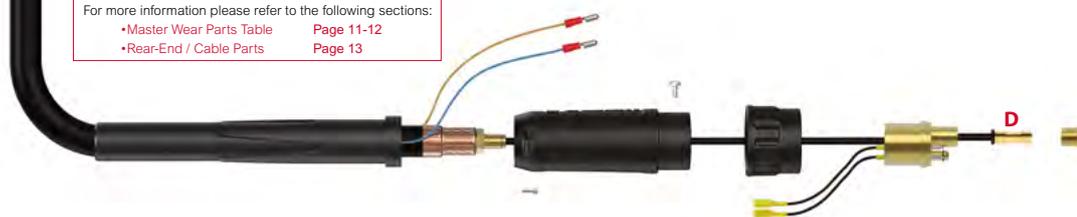
*Denotes torch package standard wear part set-up

For more information please refer to the following sections:

- Master Wear Parts Table Page 11-12
- Rear-End / Cable Parts Page 13

Spare Parts

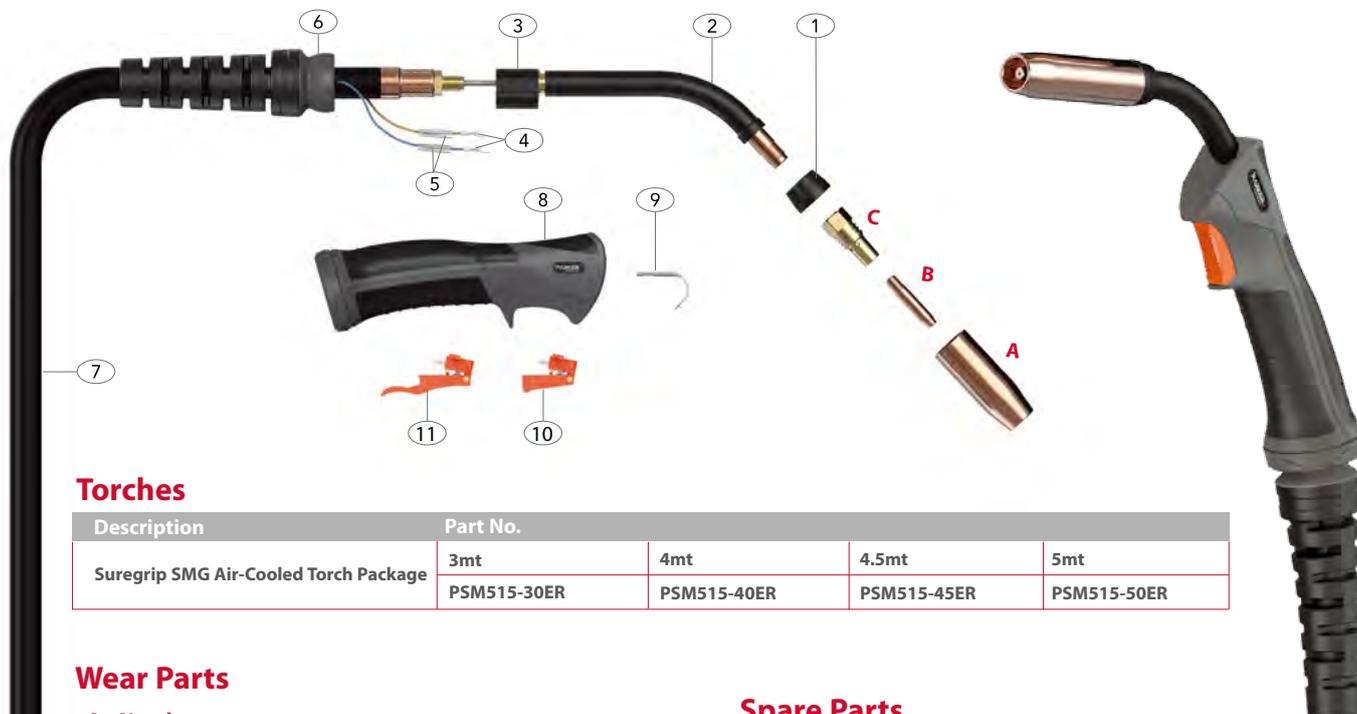
Part No.	Description
1	PSM3152 Adaptor Piece
2	PSM3153 Swan Neck
3	PG1515 Ergo Handle Location Body
4	PB1521 Cable Terminal
5	PB1521-C Cable Terminal Cover
6	PG8015 Handle Cable Support
7	PSA35-30 Cable Assembly x 3mt
	PSA35-40 Cable Assembly x 4mt
	PSA35-45 Cable Assembly x 4.5mt
	PSA35-50 Cable Assembly x 5mt
8	SGB2514 Ergo Handle Kit c/w Lock Nut
9	PB2517 Hanger Hook
10	DGB2516 Standard Trigger Assembly
11	DGB2516L Extended Trigger Assembly



SMG 515A Suregrip Mig/Mag Torch Range

Rating: 360A CO₂, 330A mixed gas, EN60974-7 @ 60% duty cycle. 0.8 to 1.6mm

Air-Cooled Mig Welding Torch



Torches

Description	Part No.			
Suregrip SMG Air-Cooled Torch Package	3mt	4mt	4.5mt	5mt
	PSM515-30ER	PSM515-40ER	PSM515-45ER	PSM515-50ER

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
*PSM-1049	Nozzle	16.0	2.0mm	Copper
PSM-1050	Nozzle	19.0	2.0mm	Copper

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	inch
PSM-040	Contact Tip	Ecu	0.8	0.030"
PSM-041	Contact Tip	Ecu	0.9	0.035"
PSM-042	Contact Tip	Ecu	1.0	0.040"
*PSM-043	Contact Tip	Ecu	1.2	0.045"
PSM-044	Contact Tip	Ecu	1.6	0.063"

C Tip Adaptors

Part No.	Description	Material
*PSM-1101	Tip Adaptor	Brass

D Liners

Part No.	Description	Length	Wire Size	
			mm	inch
PSM1535-30B	Steel Liner x 3mt	3.4mt	0.8-1.0	0.030"-0.040"
PSM1535-40B	Steel Liner x 4mt	4.4mt	0.8-1.0	0.030"-0.040"
PSM1535-45B	Steel Liner x 4.5mt	4.9mt	0.8-1.0	0.030"-0.040"
PSM1535-50B	Steel Liner x 5mt	5.4mt	0.8-1.0	0.030"-0.040"
*PSM3631-30B	Steel Liner x 3mt	3.4mt	1.2-1.6	0.045"-0.063"
*PSM3631-40B	Steel Liner x 4mt	4.4mt	1.2-1.6	0.045"-0.063"
*PSM3631-45B	Steel Liner x 4.5mt	4.9mt	1.2-1.6	0.045"-0.063"
*PSM2524-50B	Steel Liner x 5mt	5.4mt	1.2-1.6	0.045"-0.063"

*Denotes torch package standard wear part set-up

For more information please refer to the following sections:

- Master Wear Parts Table Page 11-12
- Rear-End / Cable Parts Page 13

Spare Parts

Part No.	Description
1	PSM3152 Adaptor Piece
2	PSM5153 Swan Neck
3	PG1515 Ergo Handle Location Body
4	PG1521 Cable Terminal
5	PG1521-C Cable Terminal Cover
6	PG8016 Cable Support
7	PSA50-30 Cable Assembly x 3mt
	PSA50-40 Cable Assembly x 4mt
	PSA50-45 Cable Assembly x 4.5mt
	PSA50-50 Cable Assembly x 5mt
8	SGB2514 Ergo Handle Kit c/w Lock Nut
9	PB2517 Hanger Hook
10	DGB2516 Standard Trigger Assembly
11	DGB2516L Extended Trigger Assembly

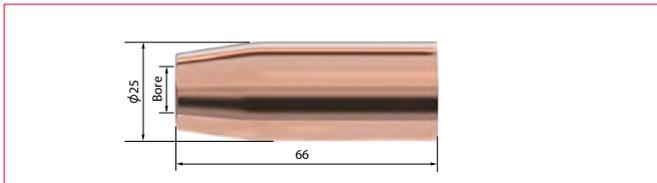


Wear Parts

Nozzles

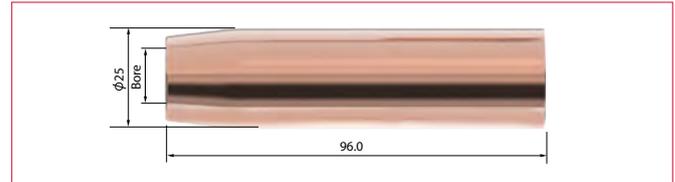
SMG 315A

Part No.	Description	Bore	Wall	Material
PSM-1053	Nozzle	11.0	2.0mm	Copper
PSM-1054	Nozzle	13.0	2.0mm	Copper
*PSM-1055	Nozzle	15.0	2.0mm	Copper
PSM-1239	Nozzle	17.0	2.0mm	Copper



SMG 515A

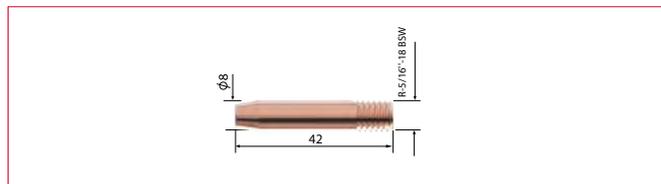
Part No.	Description	Bore	Wall	Material
*PSM-1049	Nozzle	16.0	2mm	Copper
PSM-1050	Nozzle	19.0	2mm	Copper



Contact Tips

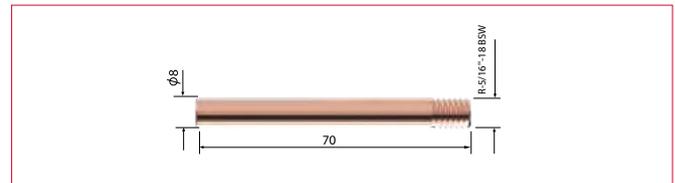
SMG 315A

Part No.	Description	Material	Wire Size	
			mm	inch
PSM-050	Contact Tip	Ecu	0.8	0.030"
PSM-051	Contact Tip	Ecu	0.9	0.035"
*PSM-052	Contact Tip	Ecu	1.0	0.040"
PSM-053	Contact Tip	Ecu	1.2	0.045"



SMG 515A

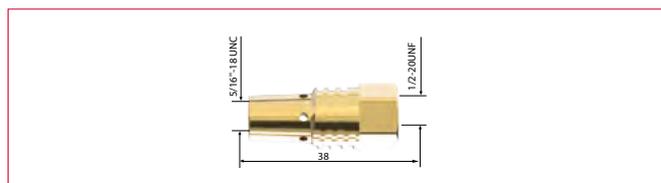
Part No.	Description	Material	Wire Size	
			mm	inch
PSM-040	Contact Tip	Ecu	0.8	0.030"
PSM-041	Contact Tip	Ecu	0.9	0.035"
PSM-042	Contact Tip	Ecu	1.0	0.040"
*PSM-043	Contact Tip	Ecu	1.2	0.045"
PSM-044	Contact Tip	Ecu	1.6	0.063"



Tip Adaptors

SMG 315A/515A

Part No.	Description	Material
*PSM-1101	Tip Adaptor	Brass



* Denotes torch package standard wear part set-up

Liner Options 0.8-0.9mm

SMG 315A/515A

Part No.	Description	Length	Nipple	Wire Size	
				mm	inch
PSM1535-30B	Steel Liner x 3mt	3.4mt	Brass Nipple	0.8 -1.0	0.030"- 0.040"
PSM1535-40B	Steel Liner x 4mt	4.4mt	Brass Nipple	0.8 -1.0	0.030"- 0.040"
PSM1535-45B	Steel Liner x 4mt	4.9mt	Brass Nipple	0.8 -1.0	0.030"- 0.040"
PSM1535-50B	Steel Liner x 5mt	5.4mt	Brass Nipple		



SMG 315A

Part No.	Description	Length	Nipple	Wire Size	
				mm	inch
PSM2524-30B	Steel Liner x 3mt	3.4mt	Brass Nipple	1.2	0.045"
PSM2524-40B	Steel Liner x 4mt	4.4mt	Brass Nipple	1.2	0.045"
PSM2524-45B	Steel Liner x 4mt	4.9mt	Brass Nipple	1.2	0.045"
PSM2524-50B	Steel Liner x 5mt	5.4mt	Brass Nipple	1.2	0.045"



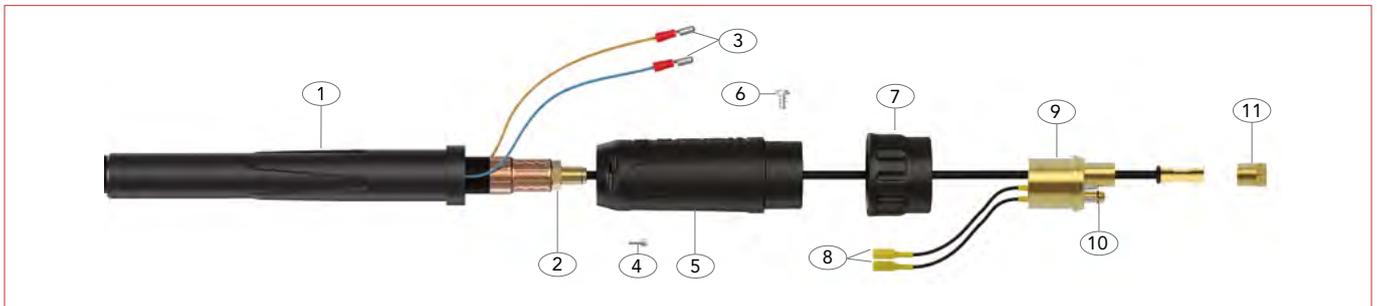
SMG 515A

Part No.	Description	Length	Nipple	Wire Size	
				mm	inch
PSM3631-30B	Steel Liner x 3mt	3.4mt	Brass Nipple	1.2-1.6	0.045"- 0.063"
PSM3631-40B	Steel Liner x 4mt	4.4mt	Brass Nipple	1.2-1.6	0.045"- 0.063"
PSM3631-45B	Steel Liner x 4.5mt	4.9mt	Brass Nipple	1.2-1.6	0.045"- 0.063"
PSM3631-50B	Steel Liner x 5mt	5.4mt	Brass Nipple	1.2-1.6	0.045"- 0.063"



SMG 315/515A

Part No.	Description
1 PA3541	Cable Support
2 PB1505	Lock Nut
3 PB1522	Cable Terminal Male
4 SCSP1-1	Gun Plug Housing Screw
5 SC2578/L	Gun Plug Housing c/w Nut
6 PB1526	Gun Plug Screw
7 PB1519/S	Gun Plug Nut
8 PB1523	Gun Plug Terminal Female
9 PSM1528	Gun Plug Body c/w Spring
10 PB1524	Gun Plug 'O' Ring
11 PSM1525	Liner Nut





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