

SUREGRIP SURECUT
PLASMA CUTTING 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

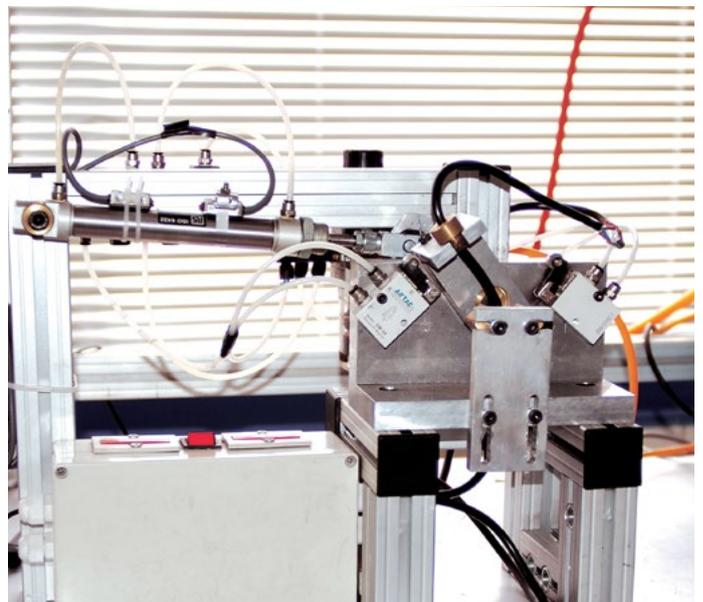
A fusion of precision production engineering, our bespoke processing techniques and a fanatical attention to detail ensures every welding torch we produce is worthy of the Parker Torchology name.

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

Contents

	Suregrip Surecut Plasma Cutting Torch Range Features Focus	6
	Suregrip Surecut Plasma Cutting Torch Range Overview and Ratings	8
	Surecut Specification Information	
	Arc Strike, Cable and Wiring System Explained	10
	Torch Package Configurator	12
	<hr/>	
	Torch Range	
	Suregrip Surecut Plasma SCP 25	13
	Suregrip Surecut Plasma SCP 40	14
	Suregrip Surecut Plasma SCP 60	15
Air-Cooled	Suregrip Surecut Plasma SCP 80	16
	Suregrip Surecut Plasma SCP 80R	17
	Suregrip Surecut Plasma SCP 120	18
	Suregrip Surecut Plasma SCP 120R	20
	<hr/>	
	Machine Torch Series	
	Suregrip Surecut Plasma SCMP 80R	22
	Suregrip Surecut Plasma SCMP 120R	23
	<hr/>	
	Wear Parts	
	Cutting Tips	24
	Electrodes	26
	Swirl Rings	26
	Retaining Caps	27
	Shield Cap Bodies	27
	Stand off Guides	28
	Shield Caps	28
	Shield Cap Gouging	28
	Cooling Tubes	29
	Cutting Buggies	29
	Circle / Cutting Attachment Kits	30
	Wear Parts Configuration Tables	31

Suregrip Surecut Plasma Cutting Torch Range

Air-Cooled Features Focus

Air-Cooled

A unique system of Arc initiation removes the traditional requirements of potentially dangerous levels of high frequency.

A Safe and Sound Strike Without High Frequency



Arc Initiation Systems

Patented Arc strike technology initiates the pilot arc without the use of high frequency

Safety Systems

A twin "fail-safe" system located beneath the shield cap ensures the torch cannot be activated if the cap is removed



Torch Bodies

Produced from precision tolerance machined parts and aerospace polymers

Features Focus

Cutting Tools for the Professional



Ergonomics – For Comfort and Handleability

- Large surface area grips improve positionability and operator comfort
- Cable supports are designed to offer the greatest flexibility

Trigger System

A patented slide to operate switch system is easy to operate and prevents accidental torch ignition



Terminations

Terminations available for separate and central connector cable types



The Smart Way To Buy Welding and Cutting Tools



Model	SCP 25	SCP 40	SCP 60	SCP 80	SCP 80R
Technical Data					
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	25A	40A	60A	80A	80A
Cutting Thickness	6-8mm	8-12mm	12-20mm	20-25mm	20-25mm
Duty Cycle:	60%	60%	60%	60%	60%
Gas	Air/N ₂				
Gas Pressure	2.8 bar 40 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi
Gas Flow	40 l/min 85 scfh	100 l/min 210 scfh	110 l/min 230 scfh	110 l/min 230 scfh	110 l/min 230 scfh
Pilot	Electrode to Tip				
Ignition	Back Striking Without HF				
Post Flow	90 sec				

Suregrip Surecut Plasma Cutting Torch Range

Ratings: 25 Amp to 120 Amp



Model	SCP 120	SCP 120R	SCMP 80R	SCMP 120R
Technical Data				
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	120A	120A	80A	120A
Cutting Thickness	30-35mm	30-35mm	20-25mm	30-35mm
Duty Cycle:	60%	60%	60%	60%
Gas	Air/N ₂	Air/N ₂	Air/N ₂	Air/N ₂
Gas Pressure	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi
Gas Flow	200 l/min 420 scfh	200 l/min 420 scfh	110 l/min 230 scfh	200 l/min 420 scfh
Pilot	Electrode to Tip	Electrode to Tip	Electrode to Tip	Electrode to Tip
Ignition	Back Striking Without HF	Back Striking Without HF	Back Striking Without HF	Back Striking Without HF
Post Flow	90 sec	90 sec	90 sec	90 sec

Arc Initiation Explained

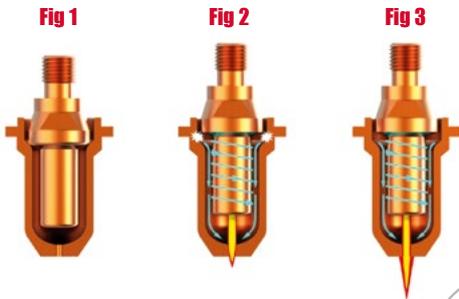


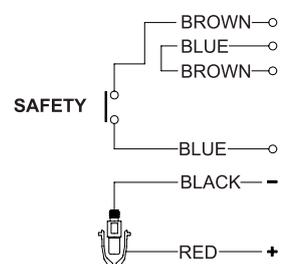
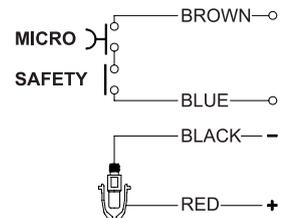
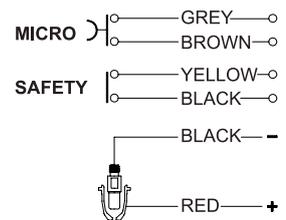
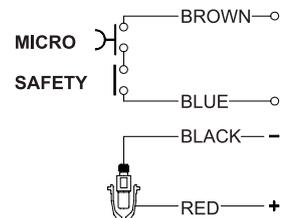
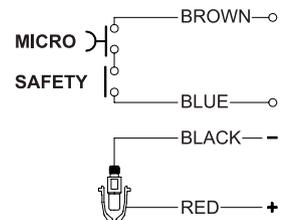
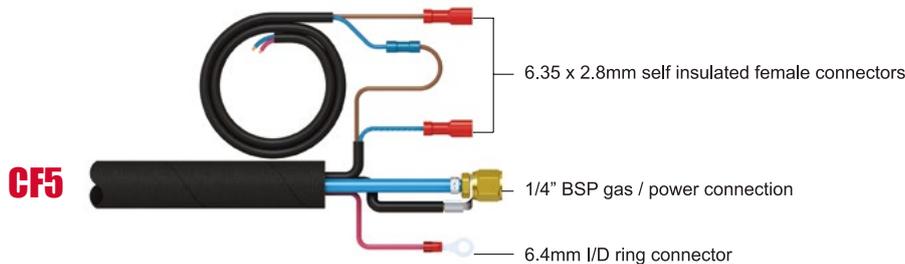
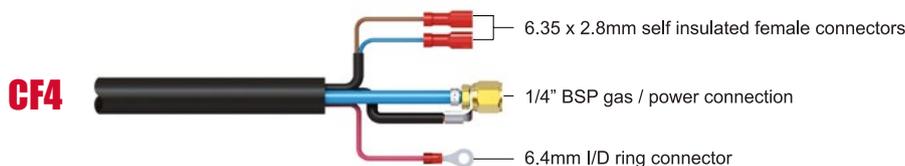
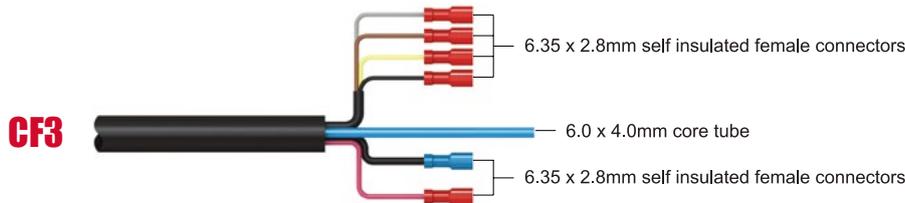
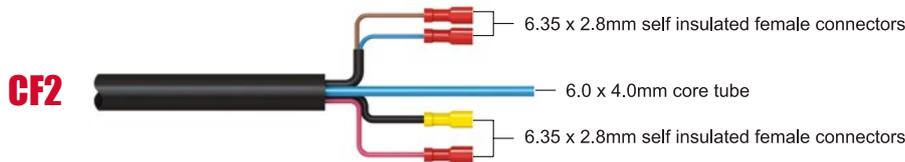
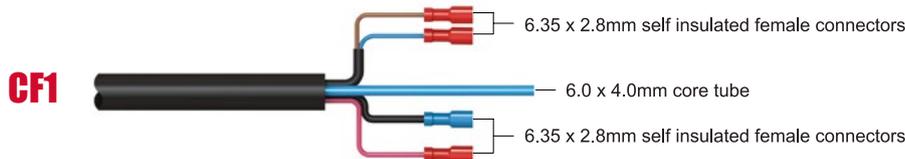
Fig 1: Shows the electrode and tip position when not in use.

Fig 2: At the point the safety trigger is actuated, current flow is sent through the torch. This is followed by a pressurized gas flow which causes a piston action to take place in the torch head. The tip and electrode are separated causing a "strike" and the pilot arc is initiated.

Fig 3: When the torch head is placed in proximity to the work piece the plasma cutting jet is ignited.



Cable Fitting Options

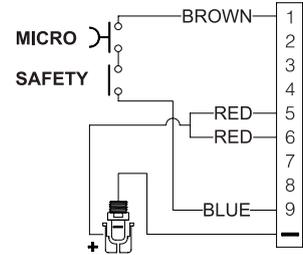


Suregrip Surecut Plasma Cutting Torch Range

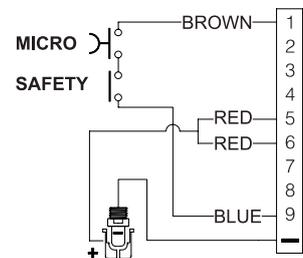
Cables and Wiring System Explained

Central Connector Options

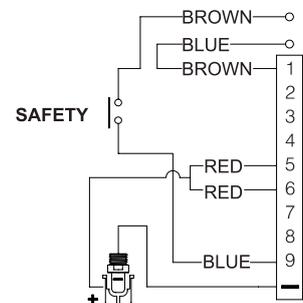
CC1



CC2



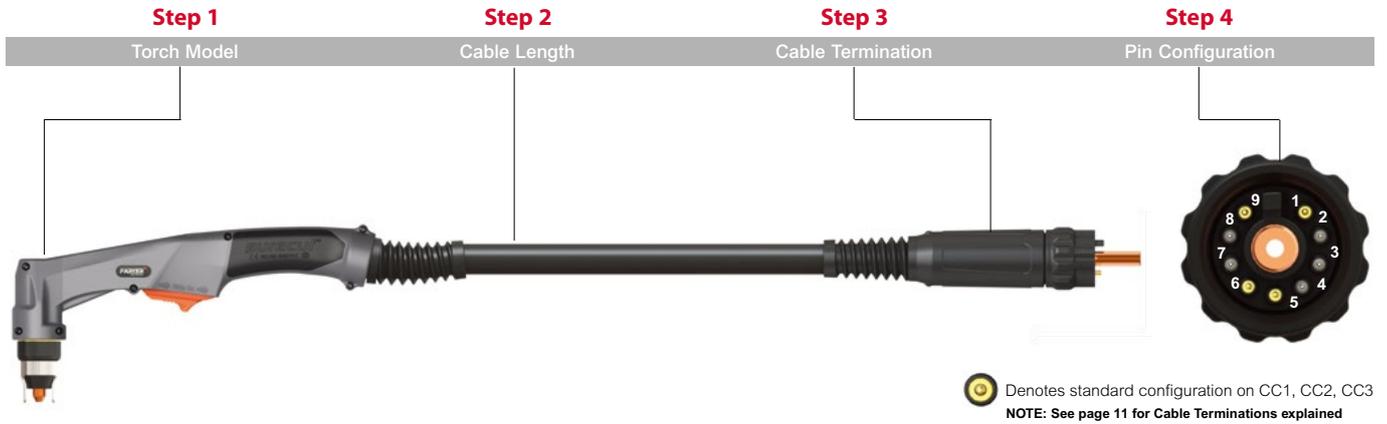
CC3



Model	SCP25	SCP40	SCP60	SCP80	SCP80R	SCP120	SCP120R	SCMP80R	SCMP120R
CF1	●	●	●	●	●	●	●	●	●
CF2	●	●	●	●	●	●	●	●	●
CF3	●	●	●	●	●	●	●	●	●
CF4	●	●	●	●	●	●	●	●	●
CF5	●	●	●	●	●	●	●	●	●
CC1	●	●	●	●	●	●	●	●	●
CC2	●	●	●	●	●	●	●	●	●
CC3	●	●	●	●	●	●	●	●	●

● Denotes standard termination option

Torch Packages can be configured according to customer requirements. See Page 12.



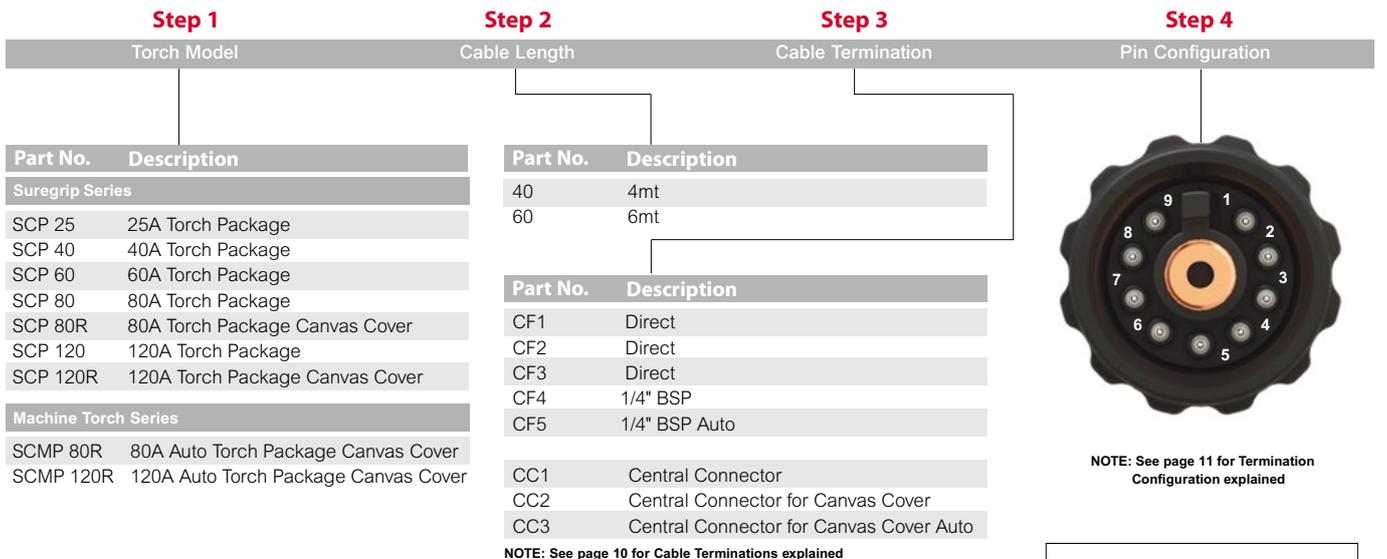
Ordering Information

Torch package part numbering is configured using the simple 4 stage system outlined below:

1. Select the correct model of torch
2. Select the cable length required
3. Select the power cable connections required
4. If you have selected a CC style termination, specify the pin numbers for the
 - Switch system
 - Safety system
 - Pilot arc
 - Any other requirements

Example: SCP 120-60-CF4

Suregrip Surecut 120 Torch Package x 6mt c/w separate cables and 1/4" BSP fitting



	Pin No	Pin No
Switch	_____	_____
Safety	_____	_____
Pilot Arc	_____	_____
Others	_____	_____

SCP 25 Suregrip Surecut Plasma Cutting Torch Range

Rating: 25A Air/N₂ gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Stand off Cutting

Extended Stand off Cutting

SCP2504 Electrode	SCP2506 Swirl Ring	Refer to Cutting Tip Table	Refer to Retaining Cap Table	SCP2551 Cutting Buggy	SCP2540 Stand off Guide
SCP2504E Electrode	SCP2506 Swirl Ring	Refer to Cutting Tip Table	Refer to Retaining Cap Table		

Model

Description	Part No.	
Suregrip Plasma Cutting Torch Package	4mt	6mt
	SCP25-40-CF1	SCP25-60-CF1

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

Part No.	Description	Bore ϕ A	Amps
SCP2520-06	Cutting Tip	0.65mm	10-20A
*SCP2520-08	Cutting Tip	0.8mm	20-30A
SCP2520-06E	Cutting Tip Extended	0.65mm	10-20A
SCP2520-08E	Cutting Tip Extended	0.8mm	20-30A

Retaining Caps

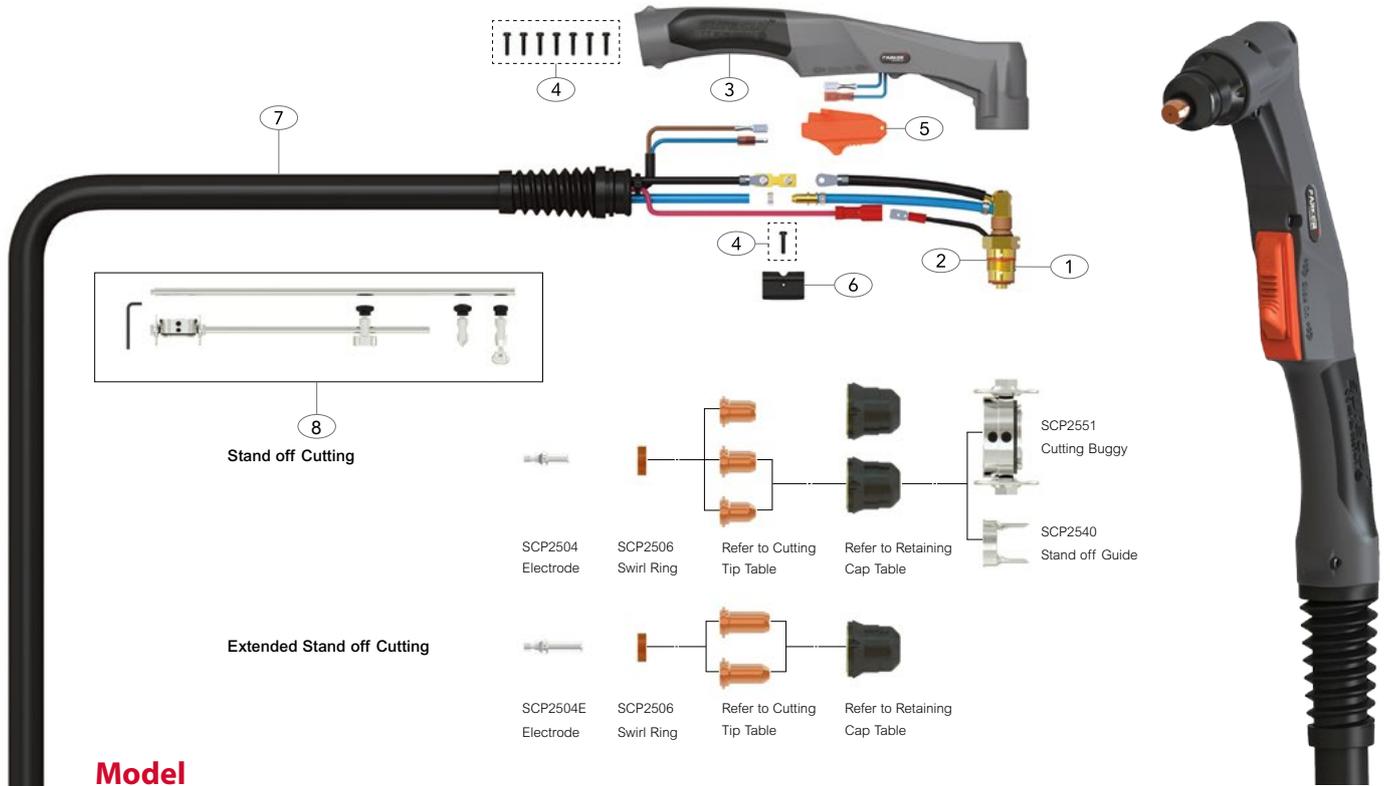
Part No.	Description
SCP2530-1	Retaining Cap, 1 hole
*SCP2530-2	Retaining Cap, 2 holes
SCP2530-4	Retaining Cap, 4 holes

Spare Parts

Part No.	Description
1 SCP2501	SCP25 70° Torch Head Kit
2 SCP2508	O Ring
3 SCP2514	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP2515	Location Block
7 *SCP2519-40-#	Cable Assembly Complete x 4mt
*SCP2519-60-#	Cable Assembly Complete x 6mt
8 SCP2550	Circle Cutting Attachment Kit

CF1

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
• Cable Terminations Page 10
• Master Wear Parts Table Page 24-30
• Wear Parts Configuration Tables Page 31-33



Model

Description	Part No.	
Suregrip Plasma Cutting Torch Package	4mt	6mt
	SCP40-40-CF2	SCP40-60-CF2

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

Part No.	Description	Bore \varnothing A	Amps
SCP2520-06	Cutting Tip	0.65mm	10-20A
*SCP2520-08	Cutting Tip	0.8mm	20-30A
SCP2520-06E	Cutting Tip Extended	0.65mm	10-20A
SCP2520-08E	Cutting Tip Extended	0.8mm	20-30A
*SCP2520-09	Cutting Tip	0.9mm	30-40A
SCP2524-09	Cutting Tip Flat	0.9mm	30-40A
SCP2522-09	Cutting Tip Cross Groove	0.9mm	30-40A
SCP2522-09E	Cutting Tip Extended Cross Groove	0.9mm	30-40A

Retaining Caps

Part No.	Description
*SCP2530-6	Retaining Cap, 6 holes
SCP2530-6L	Retaining Cap, 6 holes Maximum Life

Spare Parts

Part No.	Description
1 SCP4001	SCP40 70° Torch Head Kit
2 SCP2508	O Ring
3 SCP2514	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP2515	Location Block
7 *SCP4019-40-#	Cable Assembly Complete x 4mt
*SCP4019-60-#	Cable Assembly Complete x 6mt
8 SCP2550	Circle Cutting Attachment Kit

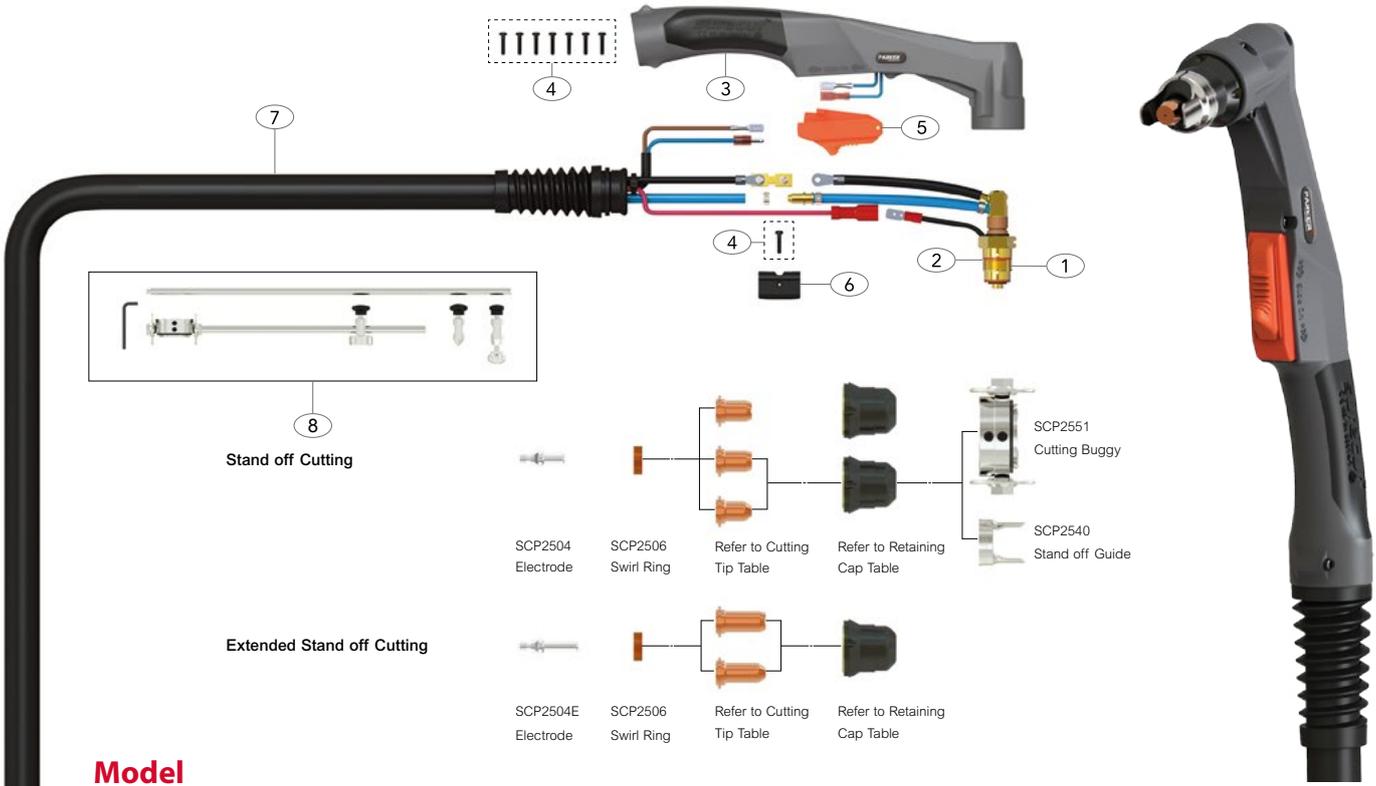
CF2

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Cable Terminations Page 10
•Master Wear Parts Table Page 24-30
•Wear Parts Configuration Tables Page 31-33

SCP 60 Suregrip Surecut Plasma Cutting Torch Range

Rating: 60A Air/N₂ gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Model

Description	Part No.	
Suregrip Plasma Cutting Torch Package	4mt	6mt
	SCP60-40-CF2	SCP60-60-CF2

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

Part No.	Description	Bore ϕ A	Amps
SCP2520-06	Cutting Tip	0.65mm	10-20A
*SCP2520-08	Cutting Tip	0.8mm	20-30A
SCP2520-06E	Cutting Tip Extended	0.65mm	10-20A
SCP2520-08E	Cutting Tip Extended	0.8mm	20-30A
SCP2522-09	Cutting Tip Cross Groove	0.9mm	30-40A
SCP2522-09E	Cutting Tip Extended	0.9mm	30-40A
SCP2524-10	Cutting Tip Flat	1.0mm	40-50A
SCP2524-11	Cutting Tip	1.1mm	50-60A

Retaining Caps

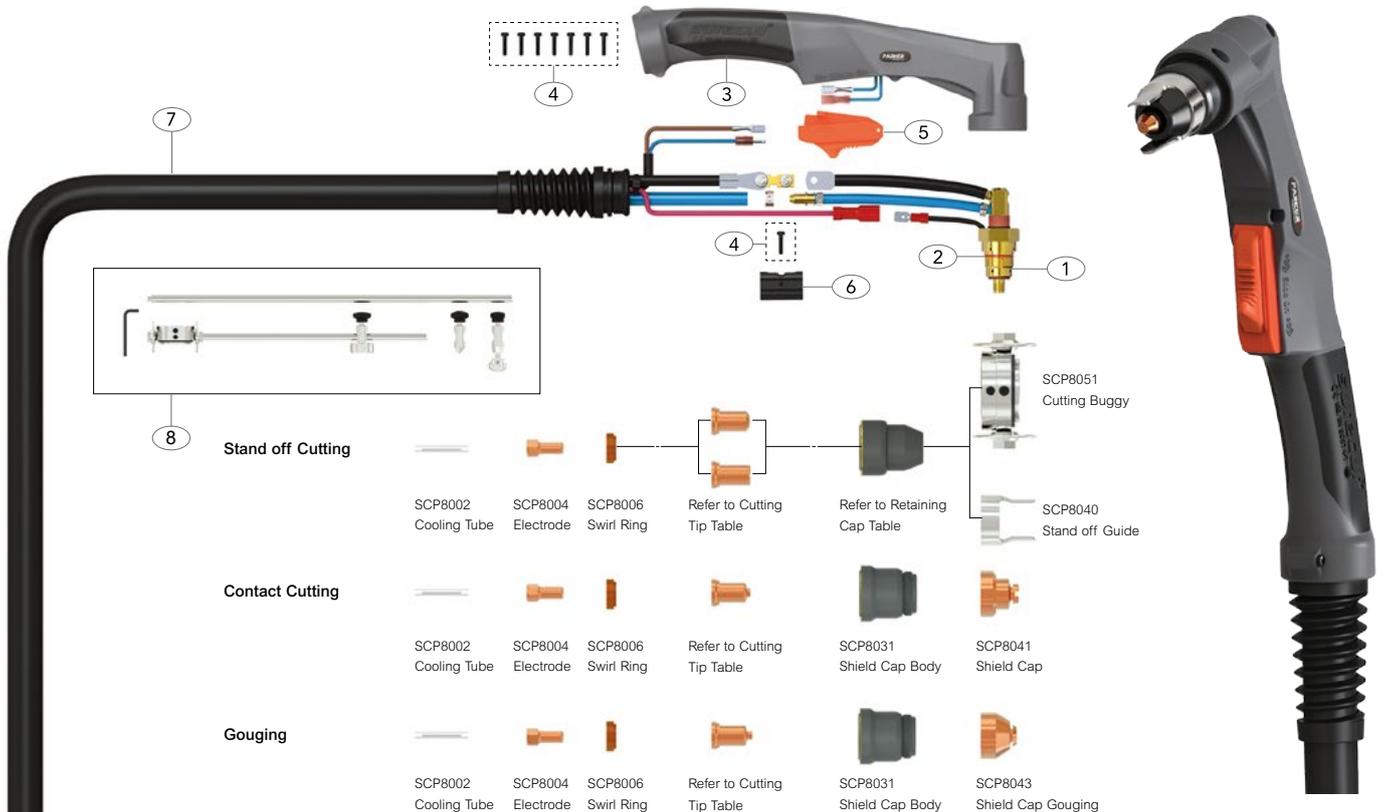
Part No.	Description
*SCP2530-6	Retaining Cap, 6 holes
SCP2530-6L	Retaining Cap, 6 holes Maximum Life

Spare Parts

Part No.	Description
1	SCP6001 SCP60 70° Torch Head Kit
2	SCP2508 O Ring
3	SCP2514 Plasma Handle Kit
4	SCPSP1 Screw Pack
5	SCP2516 Plasma Safety Trigger
6	SCP2515 Location Block
7	*SCP6019-40-# Cable Assembly Complete x 4mt
	*SCP6019-60-# Cable Assembly Complete x 6mt
8	SCP2550 Circle Cutting Attachment Kit

CF2

*Denotes torch package standard wear part set-up
 For more information please refer to the following sections:
 •Cable Terminations Page 10
 •Master Wear Parts Table Page 24-30
 •Wear Parts Configuration Tables Page 31-33



Model

Description	Part No.	
	Suregrip Plasma Cutting Torch Package	4mt SCP80-40-CF4

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

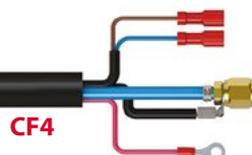
Part No.	Description	Bore Ø A	Amps
SCP8022-09	Cutting Tip Cross Groove	0.9mm	30-40A
SCP8028-16	Gouging Tip	1.6mm	80A
SCP8020-10	Cutting Tip	1.0mm	40-50A
SCP8020-11	Cutting Tip	1.1mm	50-60A
SCP8020-12	Cutting Tip	1.2mm	60-70A
*SCP8020-13	Cutting Tip	1.3mm	70-80A
SCP8026-10	Cutting Tip Contact	1.0mm	40-50A
SCP8026-11	Cutting Tip Contact	1.1mm	50-60A
SCP8026-12	Cutting Tip Contact	1.2mm	60-70A
SCP8026-13	Cutting Tip Contact	1.3mm	70-80A

Retaining Caps

Part No.	Description
*SCP8030	Retaining Cap

Spare Parts

Part No.	Description
1 SCP8001	SCP80 70° Torch Head Kit
2 SCP2508	O Ring
3 SCP8014	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP8015	Location Block
7 *SCP8019-40-#	Cable Assembly Complete x 4mt
*SCP8019-60-#	Cable Assembly Complete x 6mt
8 SCP8050	Circle Cutting Attachment Kit

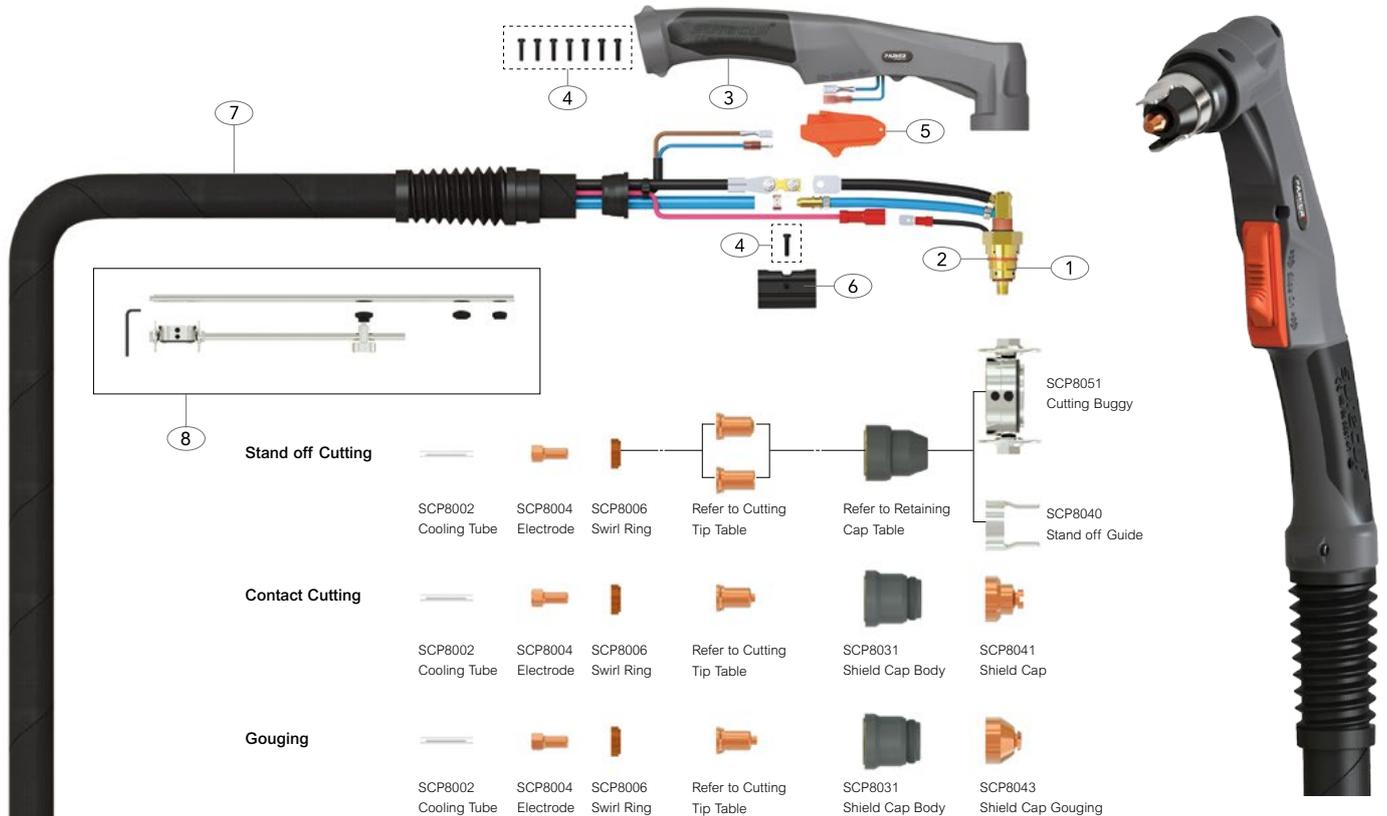


*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Cable Terminations Page 10
•Master Wear Parts Table Page 24-30
•Wear Parts Configuration Tables Page 31-33

SCP 80R Suregrip Surecut Plasma Cutting Torch Range

Rating: 80A Air/N₂ gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Mode	SCP8002 Cooling Tube	SCP8004 Electrode	SCP8006 Swirl Ring	Refer to Cutting Tip Table	Refer to Retaining Cap Table	SCP8051 Cutting Buggy	SCP8040 Stand off Guide
Stand off Cutting	[Image]	[Image]	[Image]	[Image]	[Image]	[Image]	[Image]
Contact Cutting	[Image]	[Image]	[Image]	[Image]	SCP8031 Shield Cap Body	[Image]	SCP8041 Shield Cap
Gouging	[Image]	[Image]	[Image]	[Image]	SCP8031 Shield Cap Body	[Image]	SCP8043 Shield Cap Gouging

Model

Description	Part No.	
	Suregrip Plasma Cutting Torch Package	4mt SCP80R-40-CF4

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

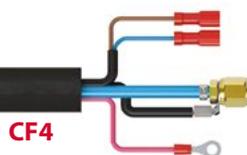
Part No.	Description	Bore Ø A	Amps
SCP8022-09	Cutting Tip Cross Groove	0.9mm	30-40A
SCP8028-16	Gouging Tip	1.6mm	80A
SCP8020-10	Cutting Tip	1.0mm	40-50A
SCP8020-11	Cutting Tip	1.1mm	50-60A
SCP8020-12	Cutting Tip	1.2mm	60-70A
*SCP8020-13	Cutting Tip	1.3mm	70-80A
SCP8026-10	Cutting Tip Contact	1.0mm	40-50A
SCP8026-11	Cutting Tip Contact	1.1mm	50-60A
SCP8026-12	Cutting Tip Contact	1.2mm	60-70A
SCP8026-13	Cutting Tip Contact	1.3mm	70-80A

Retaining Caps

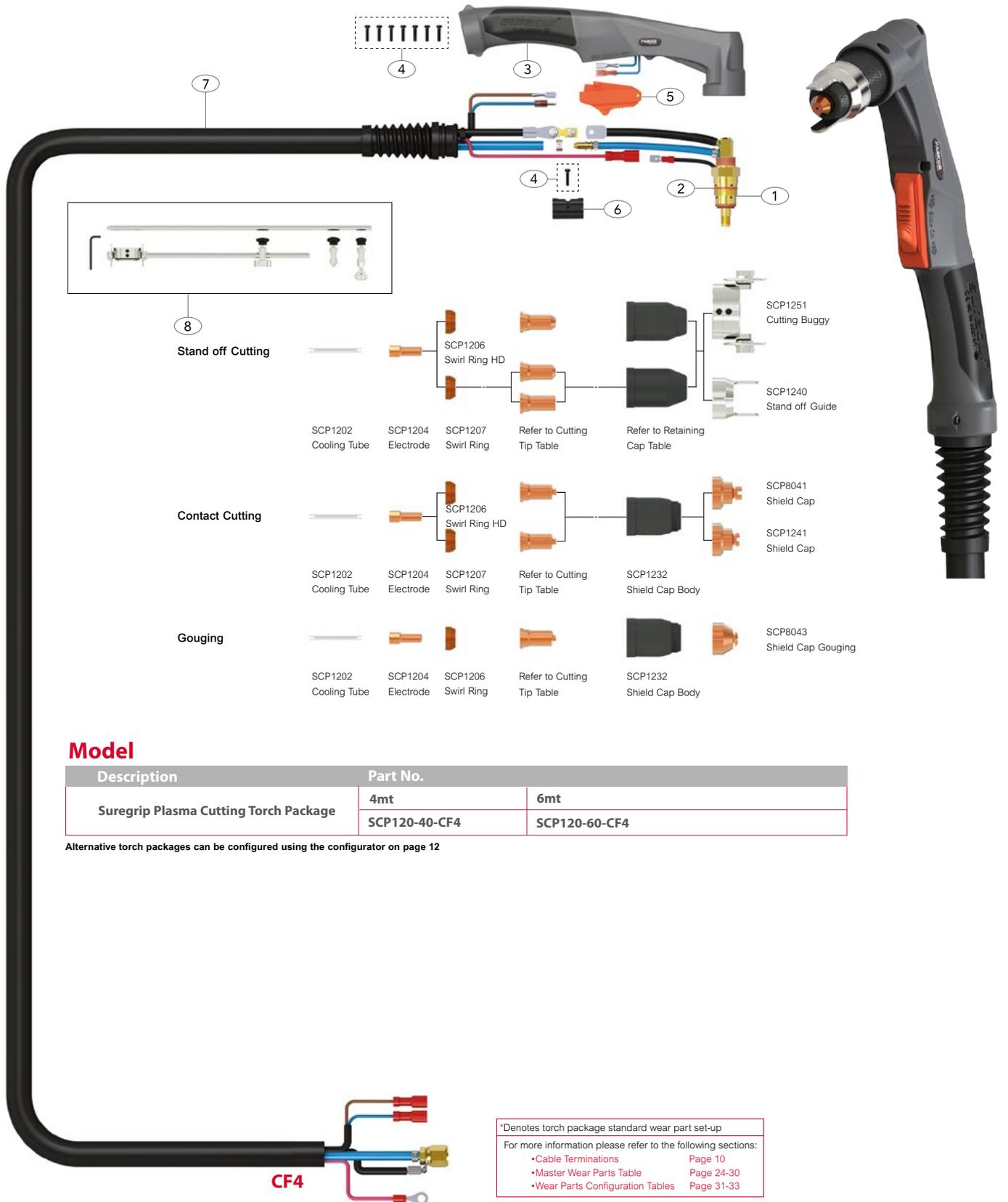
Part No.	Description
*SCP8030	Retaining Cap

Spare Parts

Part No.	Description
1	SCP8001 SCP80 70° Torch Head Kit
2	SCP2508 O Ring
3	SCP8014C Plasma Handle Kit
4	SCPSP1 Screw Pack
5	SCP2516 Plasma Safety Trigger
6	SCP8015 Location Block
7	*SCP8019C-40-# Cable Assembly Complete x 4mt
	*SCP8019C-60-# Cable Assembly Complete x 6mt
8	SCP8050 Circle Cutting Attachment Kit



*Denotes torch package standard wear part set-up
 For more information please refer to the following sections:
 • Cable Terminations Page 10
 • Master Wear Parts Table Page 24-30
 • Wear Parts Configuration Tables Page 31-33



Model

Description	Part No.	
	4mt	6mt
Suregrip Plasma Cutting Torch Package	SCP120-40-CF4	SCP120-60-CF4

Alternative torch packages can be configured using the configurator on page 12

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
• Cable Terminations Page 10
• Master Wear Parts Table Page 24-30
• Wear Parts Configuration Tables Page 31-33

SCP 120 Suregrip Surecut Plasma Cutting Torch Range

Rating: 120A Air/N₂ gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Wear Parts

Cutting Tips

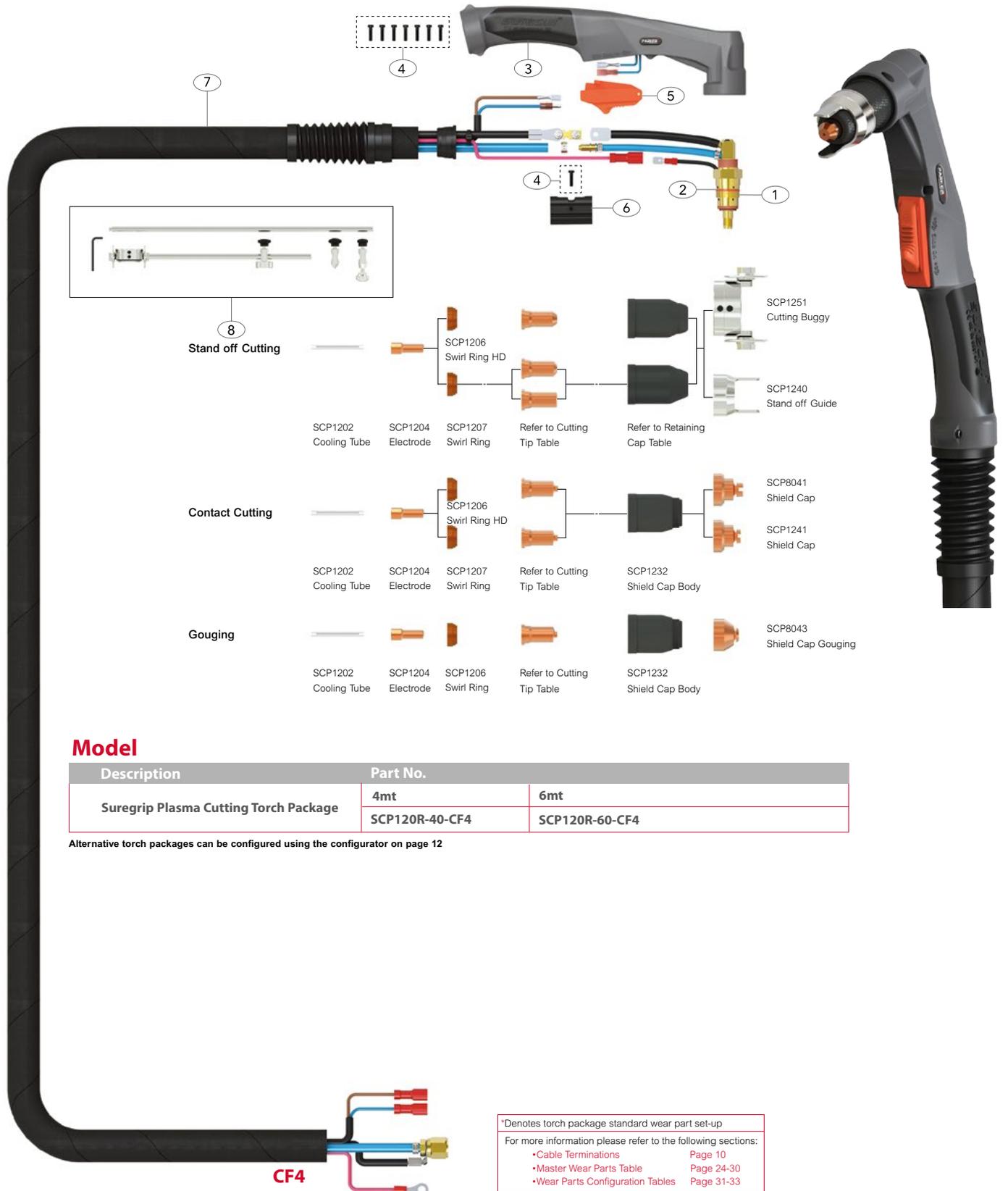
Part No.	Description	Bore Ø A	Amps
SCP1220-10	Cutting Tip	1.0mm	40-50A
SCP1220-11	Cutting Tip	1.1mm	50-60A
SCP1220-12	Cutting Tip	1.2mm	60-70A
SCP1221-14	Cutting Tip	1.4mm	80-90A
SCP1221-15	Cutting Tip	1.5mm	100-110A
* SCP1221-16	Cutting Tip	1.6mm	110-120A
SCP1222-09	Cutting Tip Contact	0.9mm	30-40A
SCP1228-22	Gouging Tip	2.2mm	120A
SCP1226-10	Cutting Tip Contact	1.0mm	40-50A
SCP1226-11	Cutting Tip Contact	1.1mm	50-60A
SCP1226-12	Cutting Tip Contact	1.2mm	60-70A
SCP1227-14	Cutting Tip Contact	1.4mm	80-90A
SCP1227-15	Cutting Tip Contact	1.5mm	100-110A
SCP1227-16	Cutting Tip Contact	1.6mm	110-120A

Retaining Caps

Part No.	Description
SCP1230	Retaining Cap , 30-70A
* SCP1231	Retaining Cap , 80-120A

Spare Parts

Part No.	Description
1 SCP1201	SCP120 70° Torch Head Kit
2 SCP1208	O Ring
3 SCP8014	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP8015	Location Block
7 *SCP8019-40 -#	Cable Assembly Complete x 4mt
*SCP8019-60 -#	Cable Assembly Complete x 6mt
8 SCP1250	Circle Cutting Attachment Kit



Model

Description	Part No.	
	4mt	6mt
Suregrip Plasma Cutting Torch Package	SCP120R-40-CF4	SCP120R-60-CF4

Alternative torch packages can be configured using the configurator on page 12

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
• Cable Terminations Page 10
• Master Wear Parts Table Page 24-30
• Wear Parts Configuration Tables Page 31-33

SCP 120R Suregrip Surecut Plasma Cutting Torch Range

Rating: 120A Air/N₂ gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Wear Parts

Cutting Tips

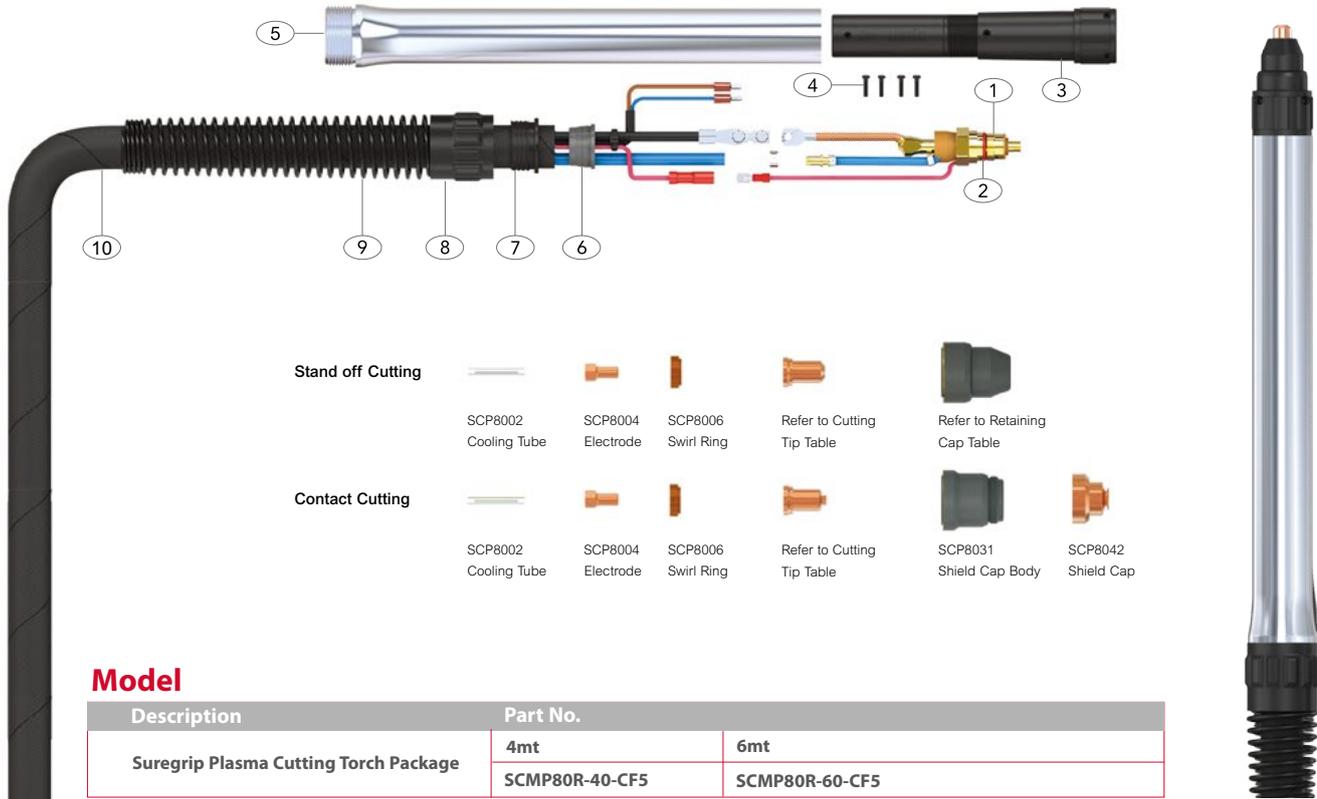
Part No.	Description	Bore Ø A	Amps
SCP1220-10	Cutting Tip	1.0mm	40-50A
SCP1220-11	Cutting Tip	1.1mm	50-60A
SCP1220-12	Cutting Tip	1.2mm	60-70A
SCP1221-14	Cutting Tip	1.4mm	80-90A
SCP1221-15	Cutting Tip	1.5mm	100-110A
*SCP1221-16	Cutting Tip	1.6mm	110-120A
SCP1222-09	Cutting Tip Contact	0.9mm	30-40A
SCP1228-22	Gouging Tip	2.2mm	120A
SCP1226-10	Cutting Tip Contact	1.0mm	40-50A
SCP1226-11	Cutting Tip Contact	1.1mm	50-60A
SCP1226-12	Cutting Tip Contact	1.2mm	60-70A
SCP1227-14	Cutting Tip Contact	1.4mm	80-90A
SCP1227-15	Cutting Tip Contact	1.5mm	100-110A
SCP1227-16	Cutting Tip Contact	1.6mm	110-120A

Retaining Caps

Part No.	Description
*SCP1230	Retaining Cap , 30-70A
SCP1231	Retaining Cap , 80-120A

Spare Parts

Part No.	Description
1 SCP1201	SCP120 70° Torch Head Kit
2 SCP1208	O Ring
3 SCP8014C	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP8015	Location Block
7 *SCP8019C-40 -#	Cable Assembly Complete x 4mt
*SCP8019C-60 -#	Cable Assembly Complete x 6mt
8 SCP1250	Circle Cutting Attachment Kit



Model

Description	Part No.	
	Suregrip Plasma Cutting Torch Package	4mt SCMP80R-40-CF5

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

Part No.	Description	Bore Ø A	Amps
SCP8022-09	Cutting Tip Cross Groove	0.9mm	30-40A
SCP8028-16	Gouging Tip	1.6mm	80A
SCP8020-10	Cutting Tip	1.0mm	40-50A
SCP8020-11	Cutting Tip	1.1mm	50-60A
SCP8020-12	Cutting Tip	1.2mm	60-70A
* SCP8020-13	Cutting Tip	1.3mm	70-80A
SCP8026-10	Cutting Tip Contact	1.0mm	40-50A
SCP8026-11	Cutting Tip Contact	1.1mm	50-60A
SCP8026-12	Cutting Tip Contact	1.2mm	60-70A
SCP8026-13	Cutting Tip Contact	1.3mm	70-80A

Retaining Caps

Part No.	Description
*SCP8030	Retaining Cap

Spare Parts

Part No.	Description
1	SCMP8001 SCMP80 180° Torch Head Kit
2	SCP2508 O Ring
3	SCP8118 Auto Torch Head Housing
4	SCPSP1-1 Screw Pack
5	SCP8110 Auto Handle
6	SCP8010 Plasma Plastic Insert
7	PB8110A Auto Handle Insert
8	PB8030A Auto Handle Lock Nut
9	PBL8017A Auto Handle Spring
10	*SCP8119C-40 -# Cable Assembly Complete x 4mt
	*SCP8119C-60 -# Cable Assembly Complete x 6mt

CF5

*Denotes torch package standard wear part set-up

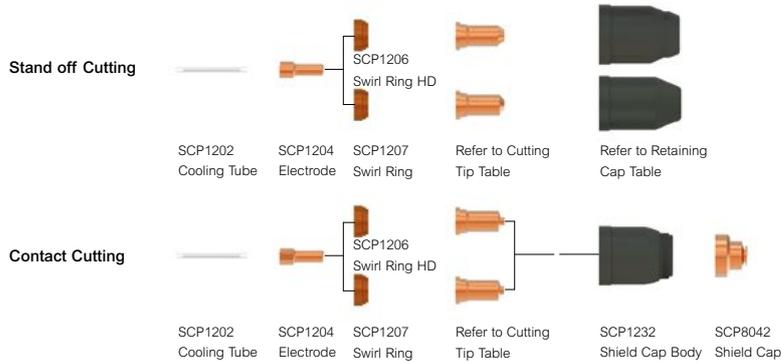
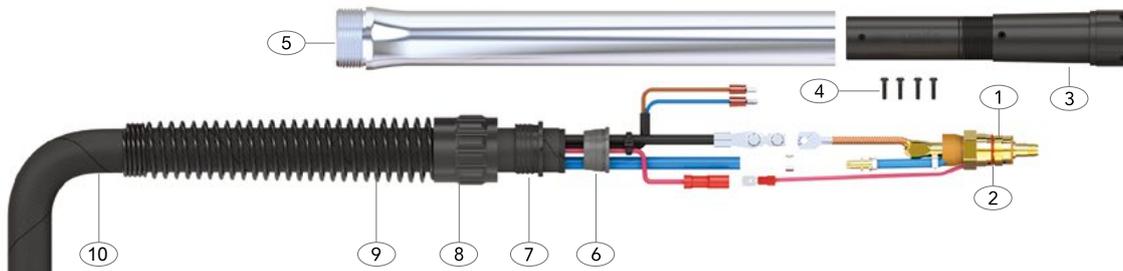
For more information please refer to the following sections:

- Cable Terminations Page 10
- Master Wear Parts Table Page 24-30
- Wear Parts Configuration Tables Page 31-33

SCMP 120R Suregrip Surecut Plasma Cutting Torch Range



Rating: 120A Air/N₂ gas, @ 60% duty cycle.
Air-Cooled Cutting Torch Range



Model

Description	Part No.	
Suregrip Plasma Cutting Torch Package	4mt	6mt
	SCMP120R-40-CF5	SCMP120R-60-CF5

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

Part No.	Description	Bore ϕ A	Amps
SCP1220-10	Cutting Tip	1.0mm	40-50A
SCP1220-11	Cutting Tip	1.1mm	50-60A
SCP1220-12	Cutting Tip	1.2mm	60-70A
SCP1221-14	Cutting Tip	1.4mm	80-90A
SCP1221-15	Cutting Tip	1.5mm	100-110A
*SCP1221-16	Cutting Tip	1.6mm	110-120A
SCP1222-09	Cutting Tip Contact	0.9mm	30-40A
SCP1228-22	Gouging Tip	2.2mm	120A
SCP1226-10	Cutting Tip Contact	1.0mm	40-50A
SCP1226-11	Cutting Tip Contact	1.1mm	50-60A
SCP1226-12	Cutting Tip Contact	1.2mm	60-70A
SCP1227-14	Cutting Tip Contact	1.4mm	80-90A
SCP1227-15	Cutting Tip Contact	1.5mm	100-110A
SCP1227-16	Cutting Tip Contact	1.6mm	110-120A

Retaining Caps

Part No.	Description
*SCP1230	Retaining Cap,30-70A
SCP1231	Retaining Cap,80-120A

Spare Parts

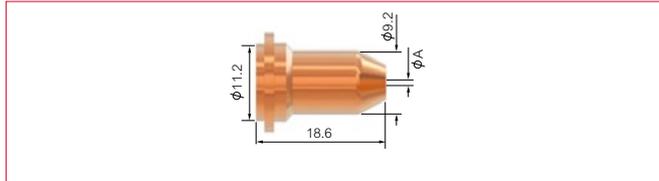
Part No.	Description
1	SCMP1201 SCMP120 180° Torch Head Kit
2	SCP1208 O Ring
3	SCP8118 Auto Torch Head Housing
4	SCPSP1-1 Screw Pack
5	SCP8110 Auto Handle
6	SCP8010 Plasma Plastic Insert
7	PB8110A Auto Handle Insert
8	PB8030A Auto Handle Lock Nut
9	PBL8017A Auto Handle Spring
10	*SCP8119C-40 -# Cable Assembly Complete x 4mt
	*SCP8119C-60 -# Cable Assembly Complete x 6mt



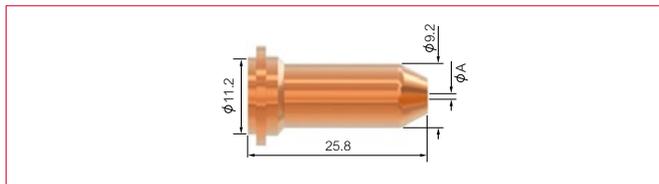
*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Cable Terminations Page 10
•Master Wear Parts Table Page 24-30
•Wear Parts Configuration Tables Page 31-33

SCP 25/40/60

Part No.	Description	Bore ϕA	Amps
SCP2520-06	Cutting Tip	0.65mm	10-20A
* SCP2520-08	Cutting Tip	0.8mm	20-30A

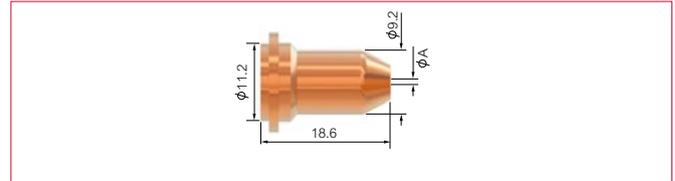


SCP2520-06E	Cutting Tip Extended	0.65mm	10-20A
SCP2520-08E	Cutting Tip Extended	0.8mm	20-30A

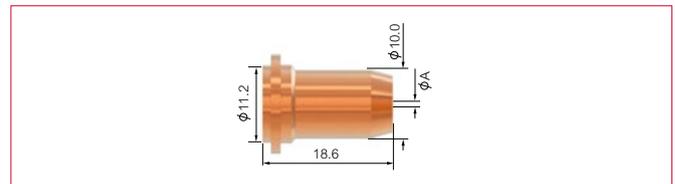


SCP 40/60

Part No.	Description	Bore ϕA	Amps
* SCP2520-09	Cutting Tip	0.9mm	30-40A

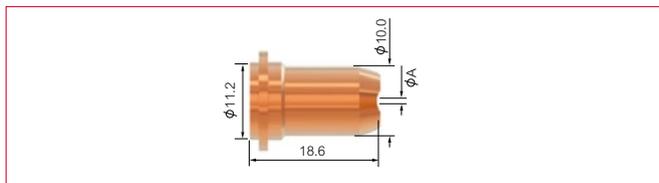


SCP2524-09	Cutting Tip Flat	0.9mm	30-40A
------------	------------------	-------	--------

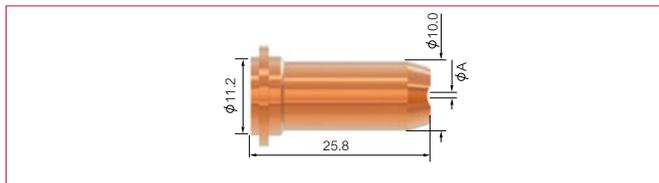


SCP 40/60

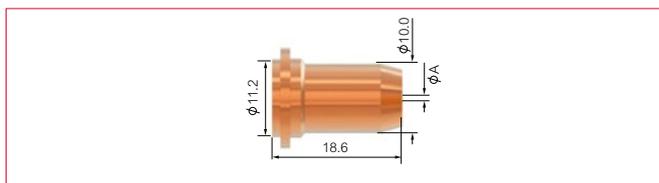
Part No.	Description	Bore ϕA	Amps
SCP2522-09	Cutting Tip Cross Groove	0.9mm	30-40A



SCP2522-09E	Cutting Tip Extended Cross Groove	0.9mm	30-40A
-------------	-----------------------------------	-------	--------

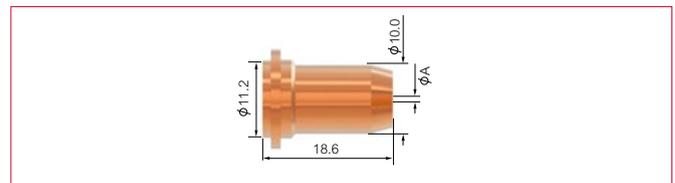


SCP2524-10	Cutting Tip Flat	1.0mm	40-50A
------------	------------------	-------	--------



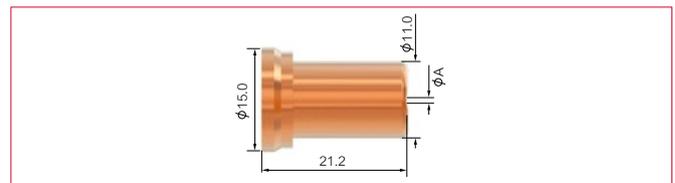
SCP 60

Part No.	Description	Bore ϕA	Amps
* SCP2524-11	Cutting Tip Flat	1.1mm	50-60A

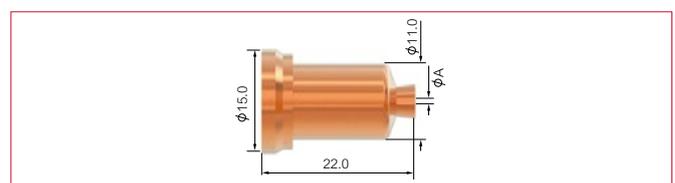


SCP 80/80R

Part No.	Description	Bore ϕA	Amps
SCP8022-09	Cutting Tip Cross Groove	0.9mm	30-40A



SCP8028-16	Gouging Tip	1.6mm	80A
------------	-------------	-------	-----

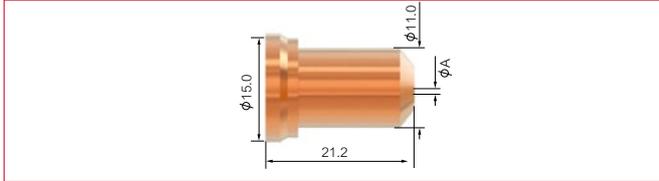


* Denotes torch package standard wear part set-up

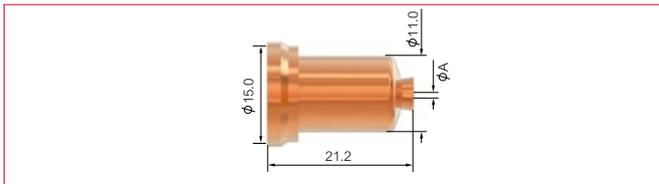
Cutting Tips

SCP 80/80R/SCMP 80R

Part No.	Description	Bore ϕ A	Amps
SCP8020-10	Cutting Tip	1.0mm	40-50A
SCP8020-11	Cutting Tip	1.1mm	50-60A
SCP8020-12	Cutting Tip	1.2mm	60-70A
* SCP8020-13	Cutting Tip	1.3mm	70-80A

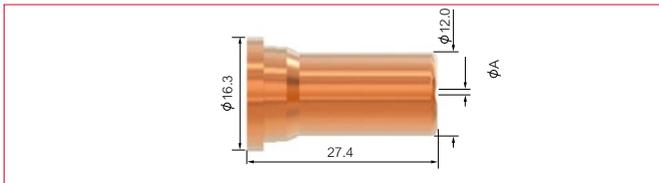


SCP8026-10	Cutting Tip Contact	1.0mm	40-50A
SCP8026-11	Cutting Tip Contact	1.1mm	50-60A
SCP8026-12	Cutting Tip Contact	1.2mm	60-70A
SCP8026-13	Cutting Tip Contact	1.3mm	70-80A

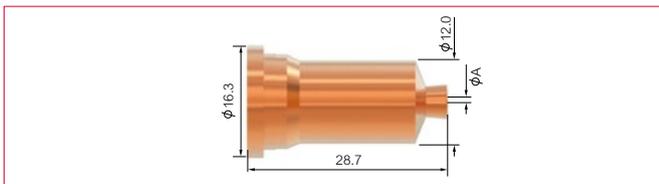


SCP 120/120R

Part No.	Description	Bore ϕ A	Amps
SCP1222-09	Cutting Tip Contact	0.9mm	30-40A

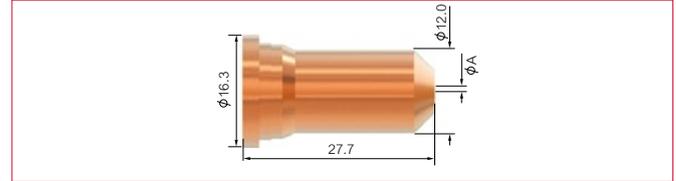


SCP1228-22	Gouging Tip	2.2mm	120A
------------	-------------	-------	------

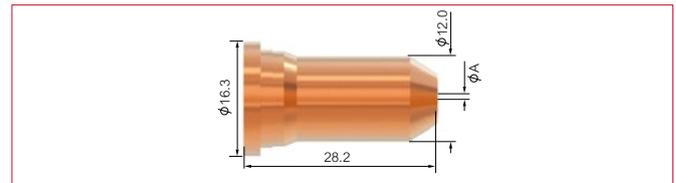


SCP 120/120R/SCMP 120R

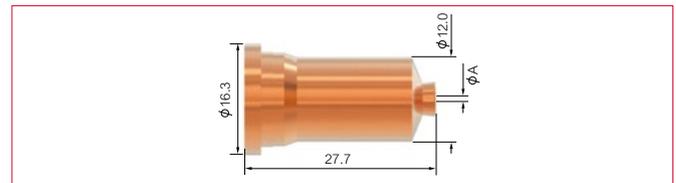
Part No.	Description	Bore ϕ A	Amps
SCP1220-10	Cutting Tip	1.0mm	40-50A
SCP1220-11	Cutting Tip	1.1mm	50-60A
SCP1220-12	Cutting Tip	1.2mm	60-70A



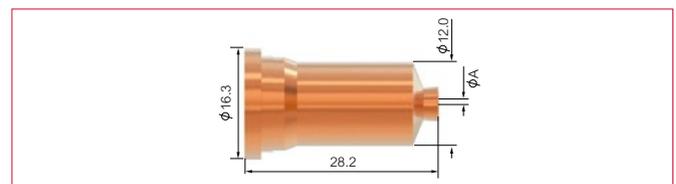
SCP1221-14	Cutting Tip	1.4mm	80-90A
SCP1221-15	Cutting Tip	1.5mm	100-110A
* SCP1221-16	Cutting Tip	1.6mm	110-120A



SCP1226-10	Cutting Tip Contact	1.0mm	40-50A
SCP1226-11	Cutting Tip Contact	1.1mm	50-60A
SCP1226-12	Cutting Tip Contact	1.2mm	60-70A



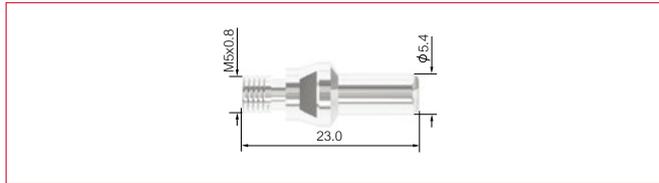
SCP1227-14	Cutting Tip Contact	1.4mm	80-90A
SCP1227-15	Cutting Tip Contact	1.5mm	100-110A
SCP1227-16	Cutting Tip Contact	1.6mm	110-120A



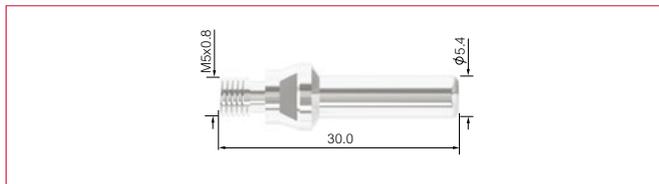
* Denotes torch package standard wear part set-up

SCP 25/40/60

Part No.	Description
* SCP2504	Electrode

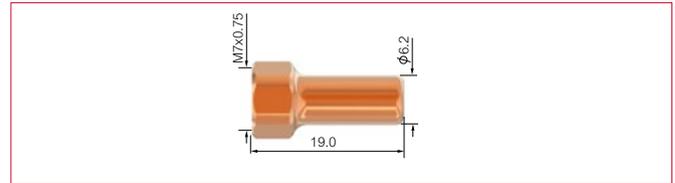


SCP2504E	Electrode Extended
----------	--------------------



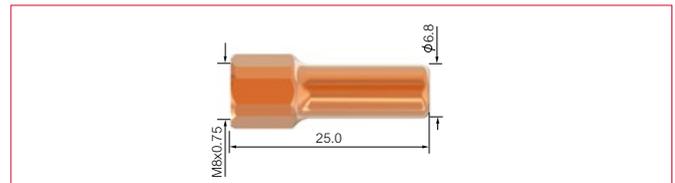
SCP 80/80R/SCMP 80R

Part No.	Description
* SCP8004	Electrode



SCP 120/120R/SCMP 120R

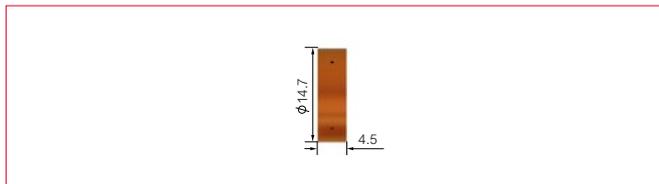
Part No.	Description
* SCP1204	Electrode



Swirl Rings

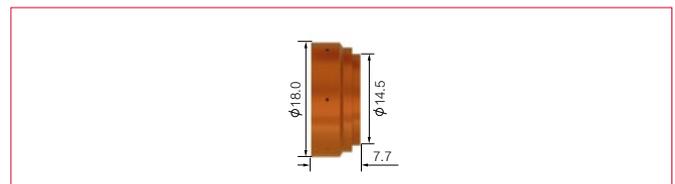
SCP 25/40/60

Part No.	Description
* SCP2506	Swirl Ring

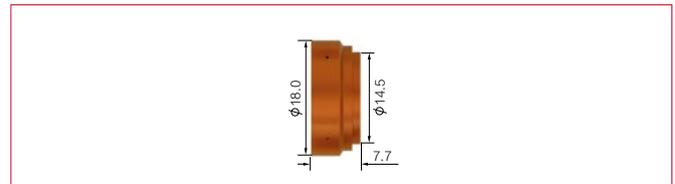


SCP 120/120R/SCMP 120R

Part No.	Description
* SCP1206	Swirl Ring, 6 holes-HD

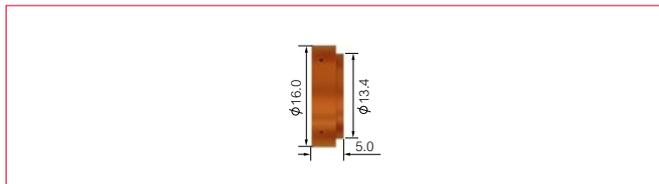


SCP1207	Swirl Ring, 4 holes
---------	---------------------



SCP 80/80R/SCMP 80R

Part No.	Description
* SCP8006	Swirl Ring



* Denotes torch package standard wear part set-up

Retaining Caps

SCP 25

Part No.	Description
SCP2530-1	Retaining Cap, 1 hole
* SCP2530-2	Retaining Cap, 2 holes
SCP2530-4	Retaining Cap, 4 holes



SCP 120/120R/SCMP120R

Part No.	Description
SCP1230	Retaining Cap , 30-70A

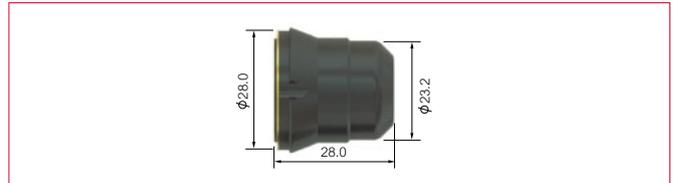


* SCP1231	Retaining Cap , 80-120A
-----------	-------------------------



SCP 40/60

Part No.	Description
* SCP2530-6	Retaining Cap, 6 holes

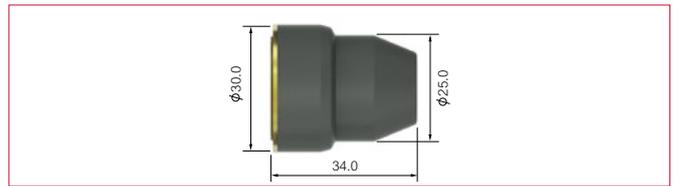


SCP2530-6L	Retaining Cap, 6 holes Maximum Life
------------	-------------------------------------



SCP 80/80R/SCMP 80R

Part No.	Description
* SCP8030	Retaining Cap



Shield Cap Bodies

SCP 80/80R/SCMP80R

Part No.	Description
SCP8031	Shield Cap Body



SCP 120/120R/SCMP120R

Part No.	Description
SCP1232	Shield Cap Body



* Denotes torch package standard wear part set-up

Stand off Guides

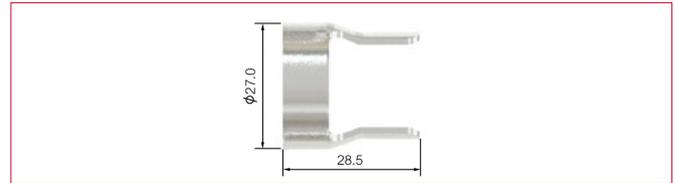
SCP 25/40/60

Part No.	Description
* SCP2540	Double Pointed Spacer



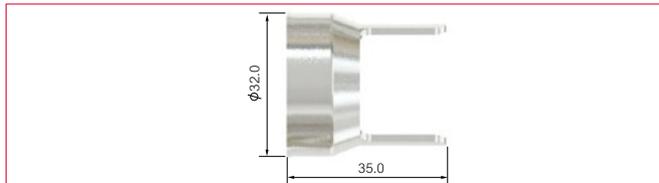
SCP 80/80R

Part No.	Description
* SCP8040	Double Pointed Spacer



SCP 120/120R

Part No.	Description
* SCP1240	Double Pointed Spacer



Shield Caps

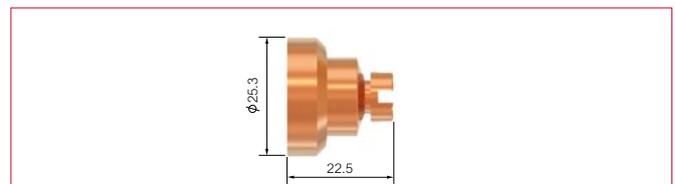
SCP 80/80R/120/120R

Part No.	Description
SCP8041	Shield Cap Hand



SCP 120/120R

Part No.	Description
SCP1241	Shield Cap Hand



Shield Cap Gouging

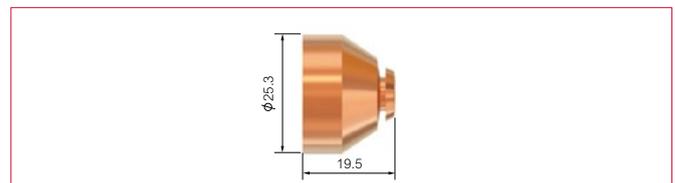
SCP 80R/120R

Part No.	Description
SCP8042	Shield Cap Machine



SCP 80/80R/120/120R

Part No.	Description
SCP8043	Shield Cap Gouging



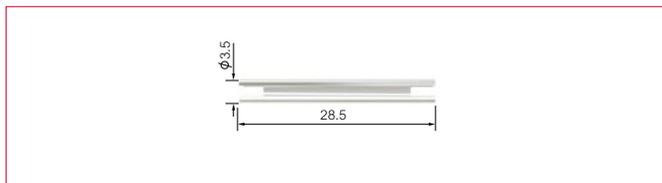
* Denotes torch package standard wear part set-up

Wear Parts

Cooling Tubes

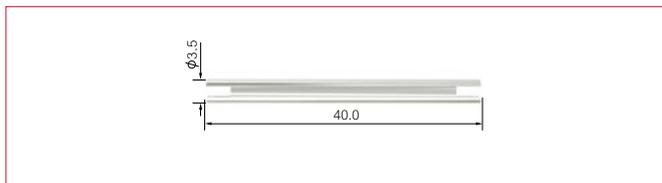
SCP 80/80R/SCMP80R

Part No.	Description
* SCP8002	Cooling Tube



SCP 120/120R/SCMP 120R

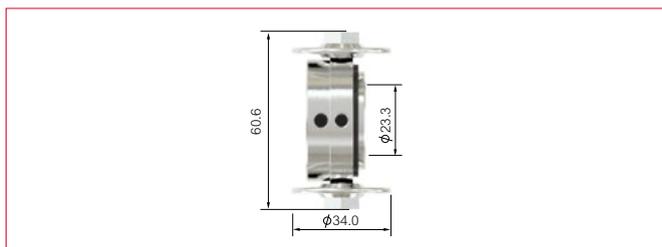
Part No.	Description
* SCP1202	Cooling Tube



Cutting Buggies

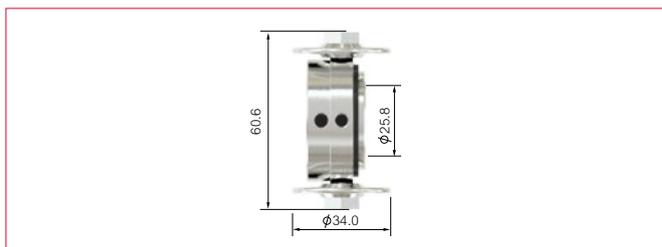
SCP 25/40/60

Part No.	Description
SCP2551	Cutting Buggy



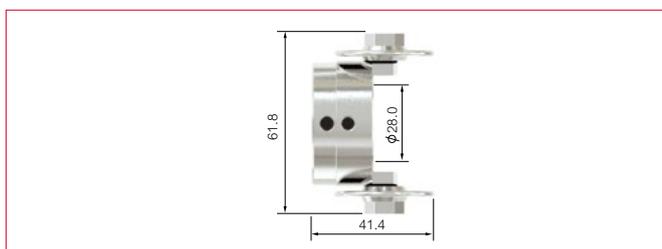
SCP 80/80R

Part No.	Description
SCP8051	Cutting Buggy



SCP 120/120R

Part No.	Description
SCP1251	Cutting Buggy



* Denotes torch package standard wear part set-up

Circle / Cutting Attachment Kits

SCP 25/40/60

SCP 80/80R

SCP 120/120R

Part No.	Description	Part No.	Description	Part No.	Description
SCP2550	Circle / Cutting Attachment Kit	SCP8050	Circle / Cutting Attachment Kit	SCP1250	Circle / Cutting Attachment Kit



* Denotes torch package standard wear part set-up

Wear Parts Configuration Tables

SCP 25 Series

Stand off Cutting



Extended Stand off Cutting



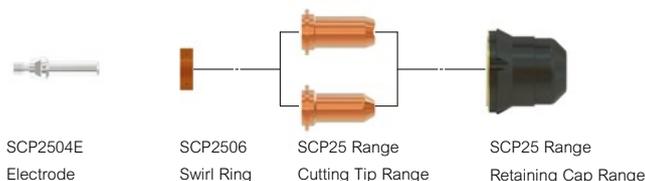
* Wear parts part number and sizes are available on pages 24-30

SCP 40 Series

Stand off Cutting



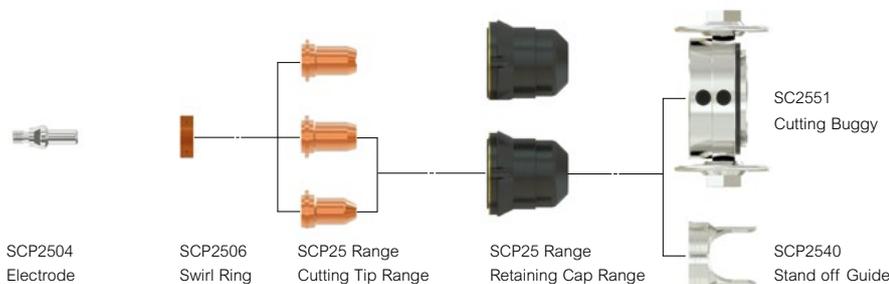
Extended Stand off Cutting



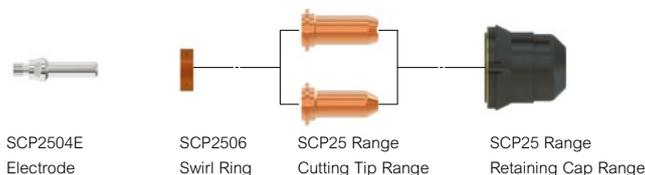
* Wear parts part number and sizes are available on pages 24-30

SCP 60 Series

Stand off Cutting



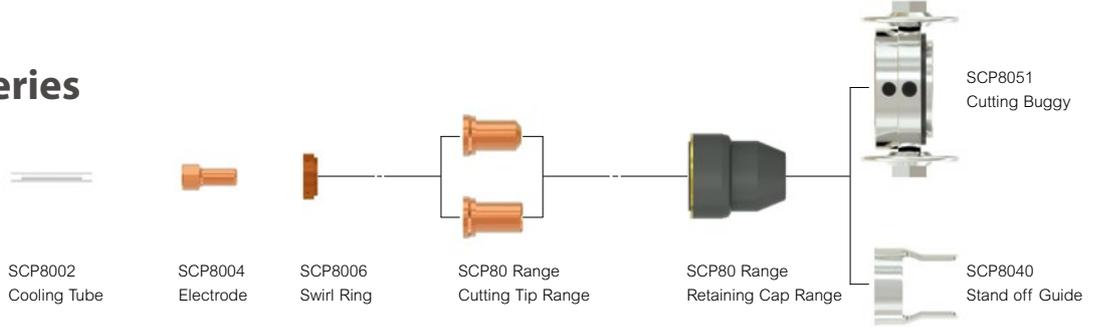
Extended Stand off Cutting



* Wear parts part number and sizes are available on pages 24-30

SCP 80/80R Series

Stand off Cutting



Contact Cutting



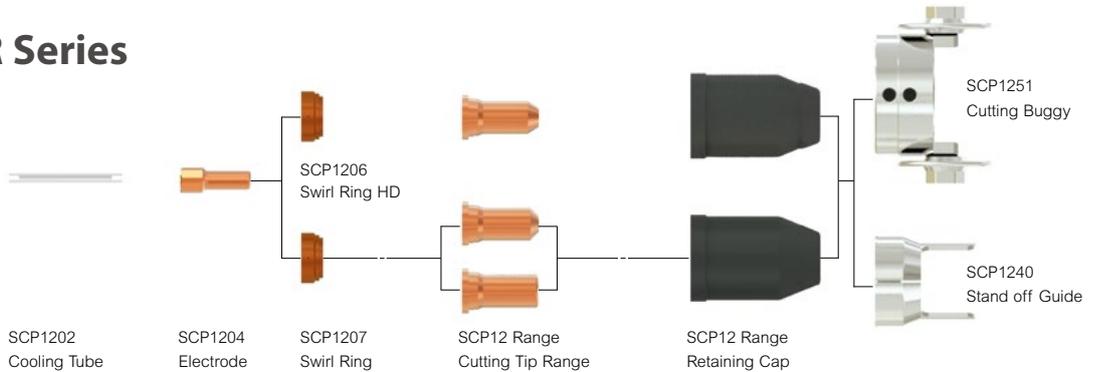
Gouging



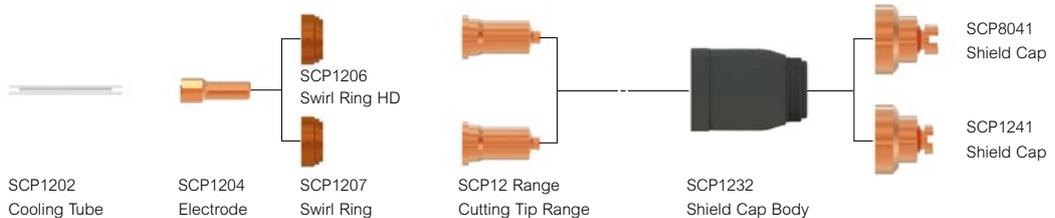
* Wear parts part number and sizes are available on pages 24-30

SCP 120/120R Series

Stand off Cutting



Contact Cutting



Gouging



* Wear parts part number and sizes are available on pages 24-30

Wear Parts Configuration Tables

SCMP 80R Series

Stand off Cutting						
	SCP8002 Cooling Tube	SCP8004 Electrode	SCP8006 Swirl Ring	SCP80 Range Cutting Tip Range	SCP80 Range Retaining Cap	
Contact Cutting						
	SCP8002 Cooling Tube	SCP8004 Electrode	SCP8006 Swirl Ring	SCP80 Range Cutting Tip Range	SCP8031 Shield Cap Body	SCP8042 Shield Cap

* Wear parts part number and sizes are available on pages 24-30

SCMP 120R Series

Stand off Cutting			 SCP1206 Swirl Ring HD			
	SCP1202 Cooling Tube	SCP1204 Electrode	SCP1207 Swirl Ring	SCP12 Range Cutting Tip Range	SCP12 Range Retaining Cap	
Contact Cutting			 SCP1206 Swirl Ring HD			
	SCP1202 Cooling Tube	SCP1204 Electrode	SCP1207 Swirl Ring	SCP12 Range Cutting Tip Range	SCP1232 Shield Cap Body	SCP8042 Shield Cap

* Wear parts part number and sizes are available on pages 24-30



Jinan Export Processing Zone
The East End of Jing Shi Dong Road
Jinan 250102
P.R. China

Tel: +86 531 88239823
Fax: +86 531 88239398
Website: www.parkertorchology.com
Email: info@parkertorchology.com
MPP031 / V.2019.06