

**SUREGRIP TRF**  
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

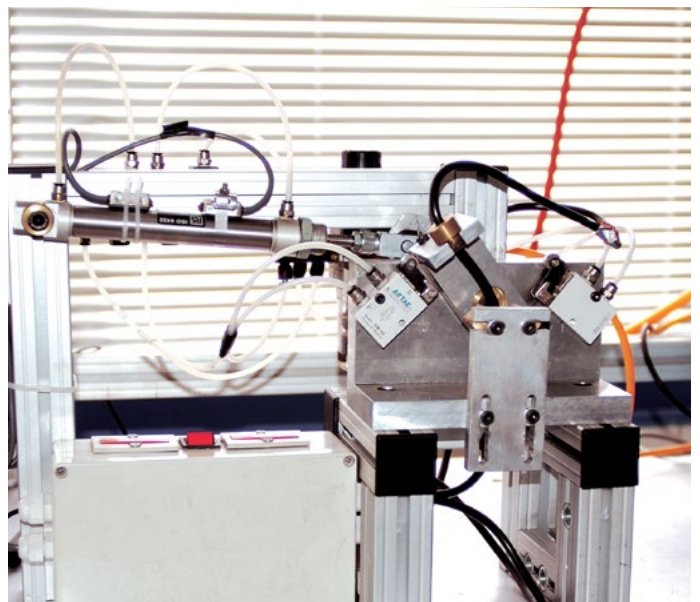
A fusion of precision production engineering, our bespoke processing techniques and a fanatical attention to detail ensures every welding torch we produce is worthy of the Parker Torchology name.

## 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.

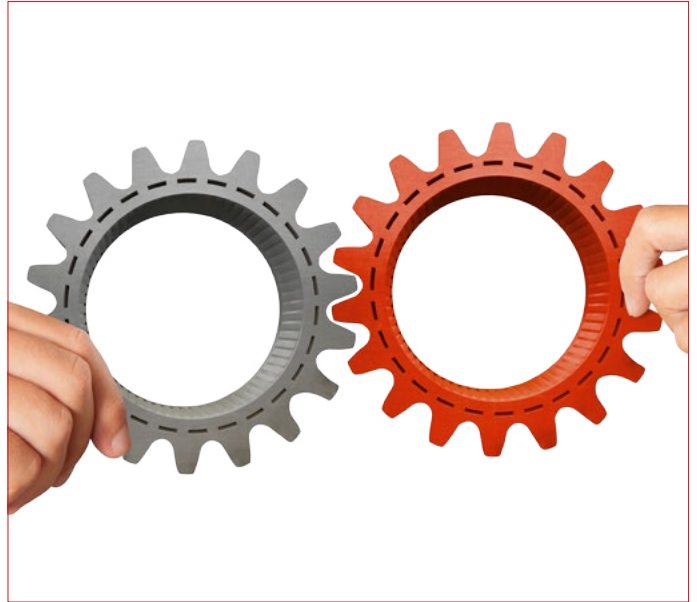
We build endless prototypes and test pieces that undergo months of rigorous testing. Only once a product has passed up to 88 different test procedures, with every single part tested separately do we consider our latest designs ready for market.



## 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**

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# Suregrip TRF Plasma Cutting Torch Range

## Air-Cooled Features Focus

**Air-Cooled**

A comprehensive range of torches that utilize back striking technology with and without the use of high frequency.

## Dynamic Engineering and Superior Design Ergonomics



100% Trafimet® Compatibility Guaranteed

### Quality Wear Parts

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

### 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 toleranced 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	STR S25K	STR S45	STR A81	STR A81R	STR A101
<b>Technical Data</b>					
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	25A	40A	80A	80A	100A
Cutting Thickness	6-8mm	8-12mm	20-25mm	20-25mm	25-30mm
Duty Cycle:	60%	60%	60%	60%	60%
Gas	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>
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	160 l/min 340 scfh	160 l/min 340 scfh	180 l/min 380 scfh
Pilot	Electrode to Tip	Electrode to Tip	Electrode to Tip	Electrode to Tip	Electrode to Tip
Ignition	Without HF	Without HF	HF	HF	HF
Post Flow	90 sec	90 sec	90 sec	90 sec	90 sec



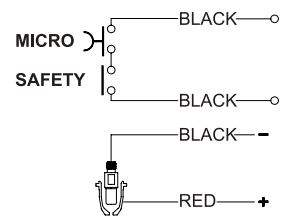
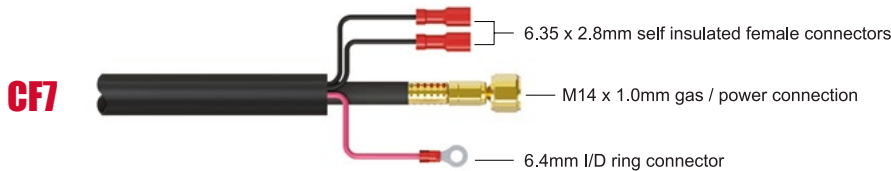
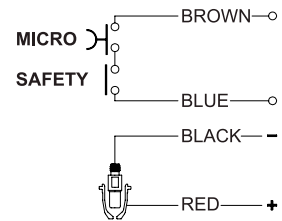
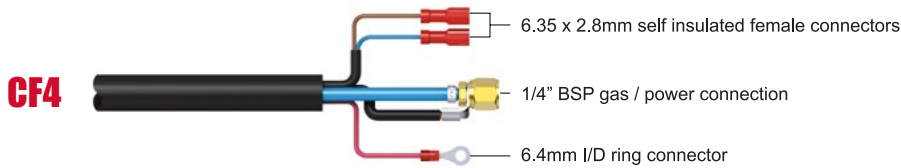
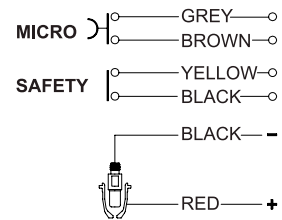
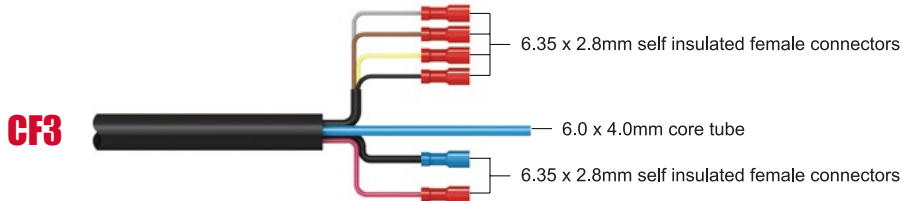
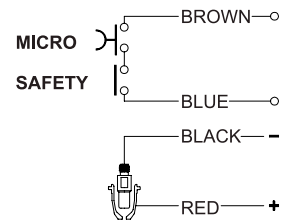
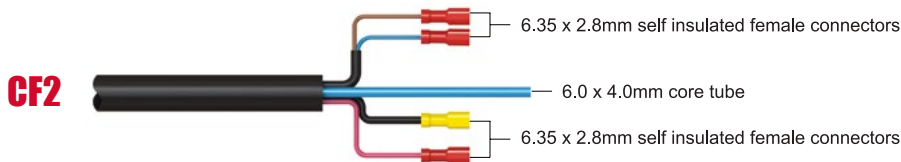
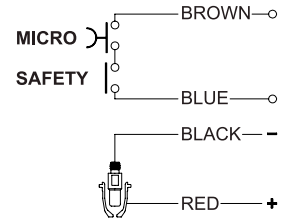
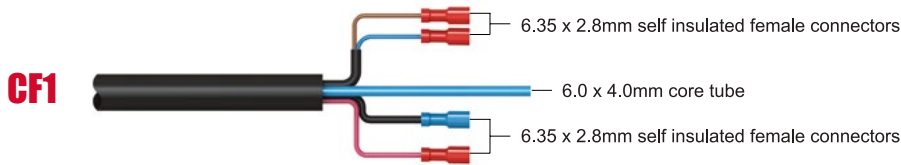
# Suregrip TRF Plasma Cutting Torch Range

Ratings: 25 Amp to 150 Amp



Model	STR A101R	STR A141	STR A141R	STR A151	STR A151R
<b>Technical Data</b>					
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	100A	140A	140A	150A	150A
Cutting Thickness	25-30mm	35-40mm	35-40mm	35-40mm	35-40mm
Duty Cycle:	60%	60%	60%	60%	60%
Gas	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>	Air/N <sub>2</sub>
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	4.5-5.0 bar 65-75 psi
Gas Flow	180 l/min 380 scfh	220 l/min 470 scfh	220 l/min 470 scfh	220 l/min 470 scfh	220 l/min 470 scfh
Pilot	Electrode to Tip	Electrode to Tip	Electrode to Tip	Electrode to Tip	Electrode to Tip
Ignition	HF	HF	HF	HF	HF
Post Flow	90 sec	90 sec	90 sec	90 sec	90 sec

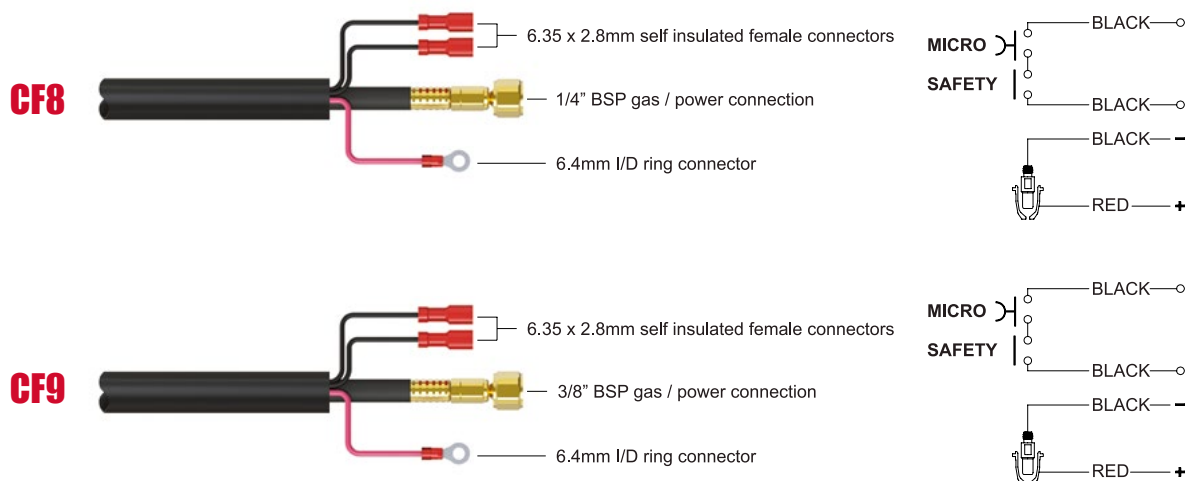
**Cable Fitting Options**



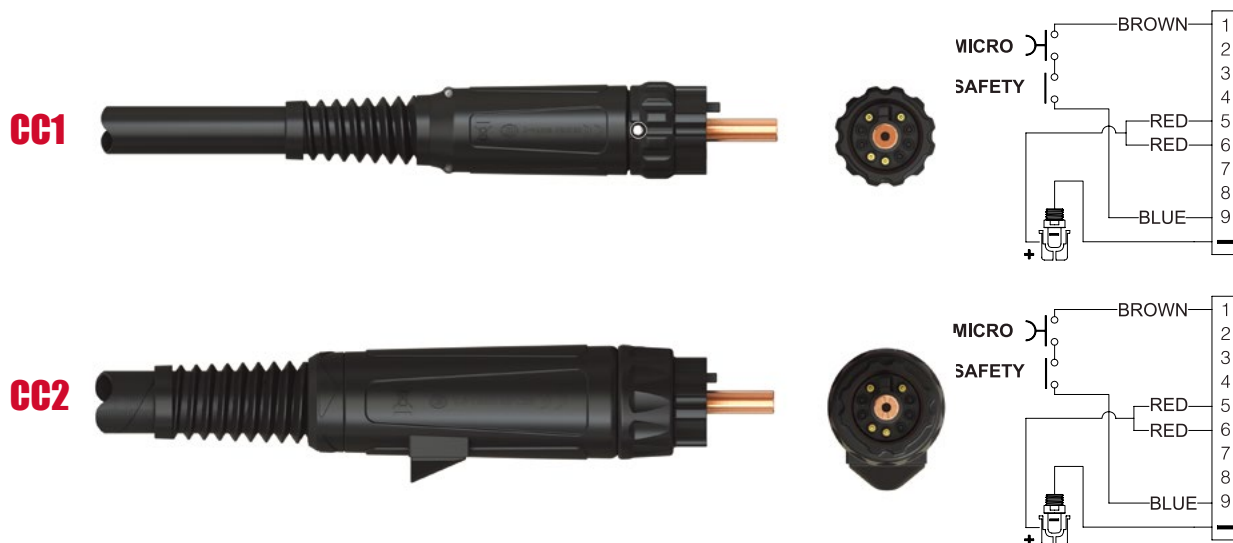
# Suregrip TRF Plasma Cutting Torch Range

Cable Terminations and Wiring Systems Explained

## Cable Fitting Options



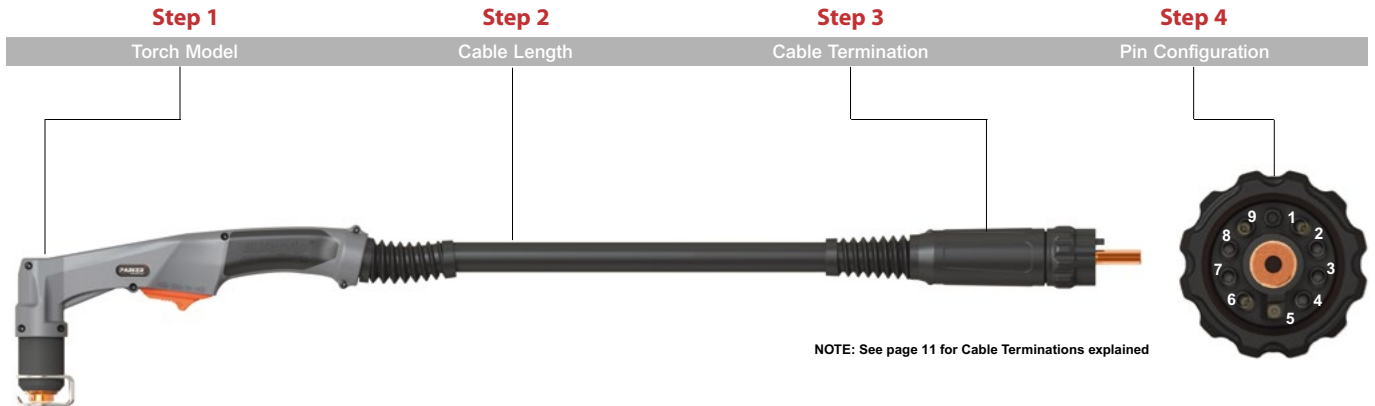
## Central Connector Options



**Model** STR S25K STR S45 STR A81 STR A81R STR A101 STR A101R STR A141 STR A141R STR A151 STR A151R

CF1	●	●	●	●	●	●	●	●	●	●
CF2	●	●	●	●	●	●	●	●	●	●
CF3	●	●	●	●	●	●	●	●	●	●
CF4	●	●	●	●	●	●	●	●	●	●
CF7	●	●	●	●	●	●	●	●	●	●
CF8	●	●	●	●	●	●	●	●	●	●
CF9	●	●	●	●	●	●	●	●	●	●
CC1	●	●	●	●	●	●	●	●	●	●
CC2	●	●	●	●	●	●	●	●	●	●

● Denotes standard termination option



## 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: STR A141-60-CF7

Suregrip 141 Torch Package x 6mt c/w separate cables and M14x1.0 fitting

**Step 1** Torch Model

Part No.	Description
<b>Suregrip Series</b>	
STR S25K	25A Torch Package
STR S45	40A Torch Package
STR A81	80A Torch Package
STR A81R	80A Torch Package Canvas Cover
STR A101	100A Torch Package
STR A101R	100A Torch Package Canvas Cover
STR A141	140A Torch Package
STR A141R	140A Torch Package Canvas Cover
STR A151	150A Torch Package
STR A151R	150A Torch Package Canvas Cover

**Step 2** Cable Length

Part No.	Description
40	4mt
60	6mt

**Step 3** Cable Termination

Part No.	Description
CF1	Direct
CF2	Direct
CF3	Direct
CF4	1/4" BSP
CF7	M14x1.0mm
CF8	1/4" BSP
CF9	3/8" BSP

CC1 Central Connector  
CC2 Central Connector for Canvas Cover

NOTE: See page 10 for Cable Terminations explained

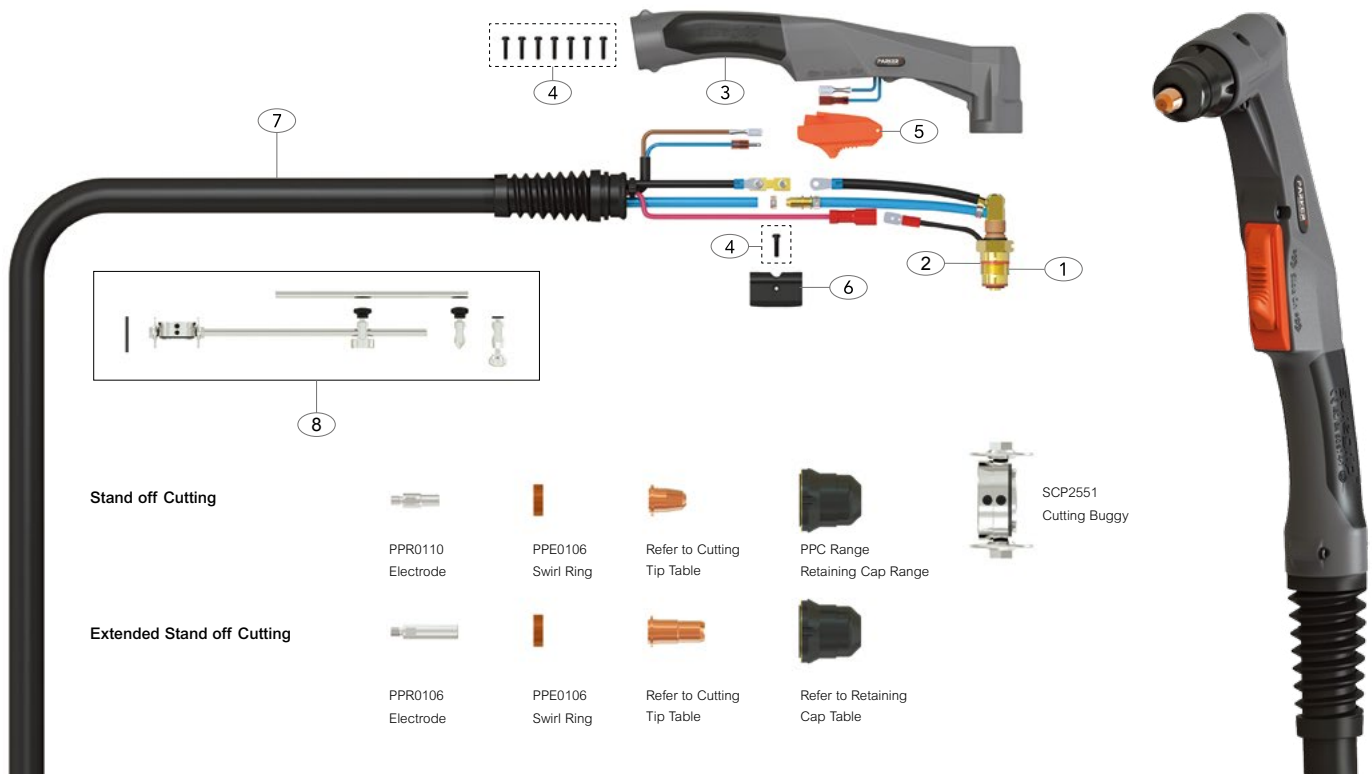
**Step 4** Pin Configuration

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

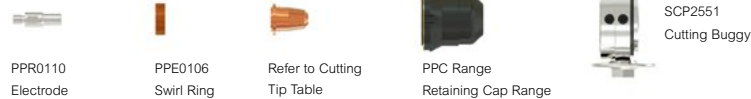
# STR S25K Suregrip TRF Plasma Cutting Torch Range

Rating: 25A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



### Stand off Cutting



### Extended Stand off Cutting



## Model

Description	Part No.	
	Suregrip TRF Plasma Cutting Torch Package	4mt
STR S25K-40-CF1		STR S25K-60-CF1

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

## Wear Parts

### Cutting Tips

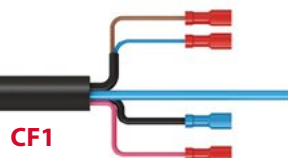
Part No.	Description	Bore $\varnothing$ A	Amps
*PPD0116-06	Cutting Tip	0.6mm	25A
PPD0103-65	Cutting Tip	0.65mm	25A

### Retaining Caps

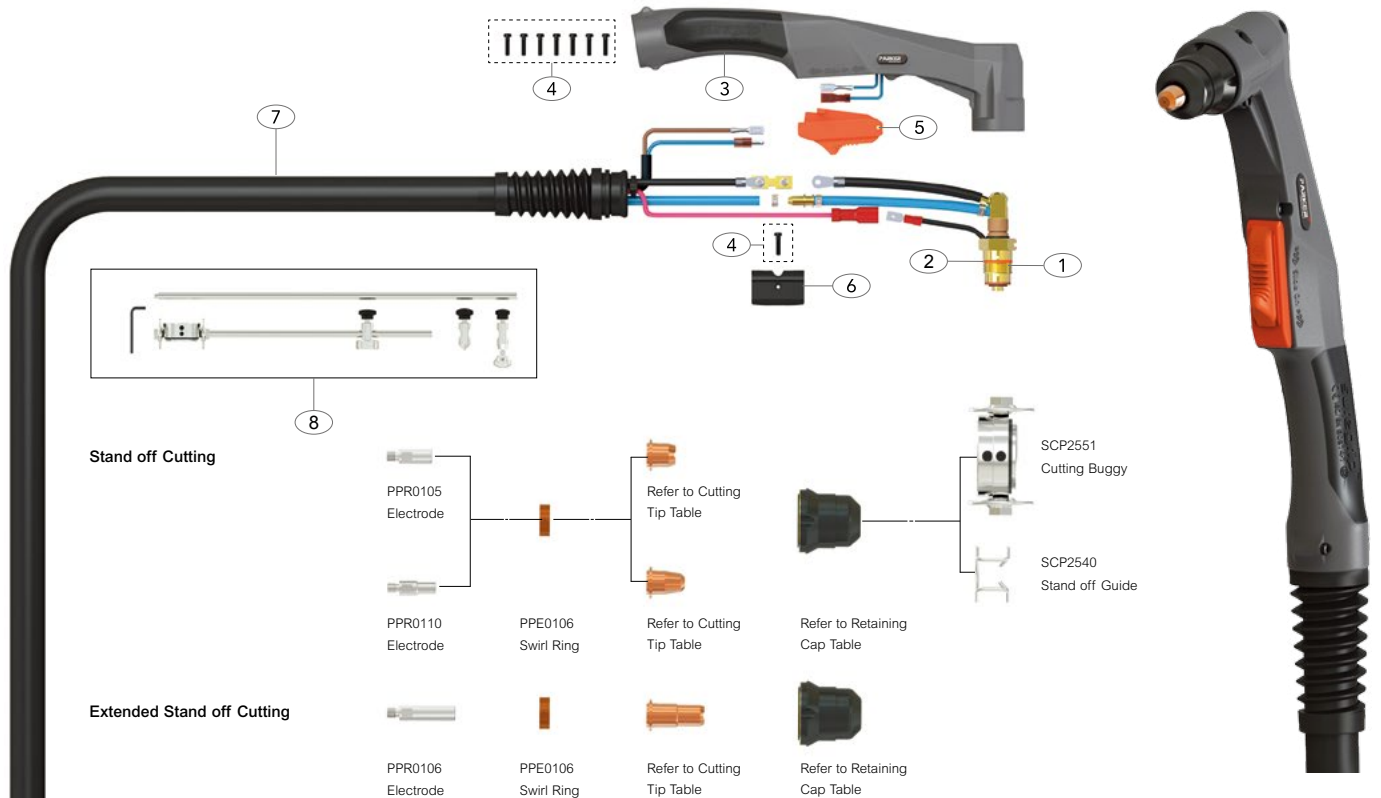
Part No.	Description
*PPC0117	Retaining Cap, 2 Holes

## Spare Parts

Part No.	Description
1	STR2501 STR25 70° Torch Head Kit
2	SCP2508 O Ring
3	SGP2514 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



\*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 30-37  
•Wear Parts Configuration Tables Page 38-41



**Model**

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR S45-40-CF2	STR S45-60-CF2

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

**Wear Parts**

**Cutting Tips**

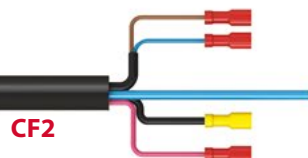
Part No.	Description	Bore $\phi$ A	Amps
*PPD0116-08	Cutting Tip	0.8mm	30A
PPD0102-10	Cutting Tip	1.0mm	50A
PPD0103-09	Cutting Tip Extended	0.9mm	40A

**Retaining Caps**

Part No.	Description
*PPC0116	Retaining Cap, 6 Holes

**Spare Parts**

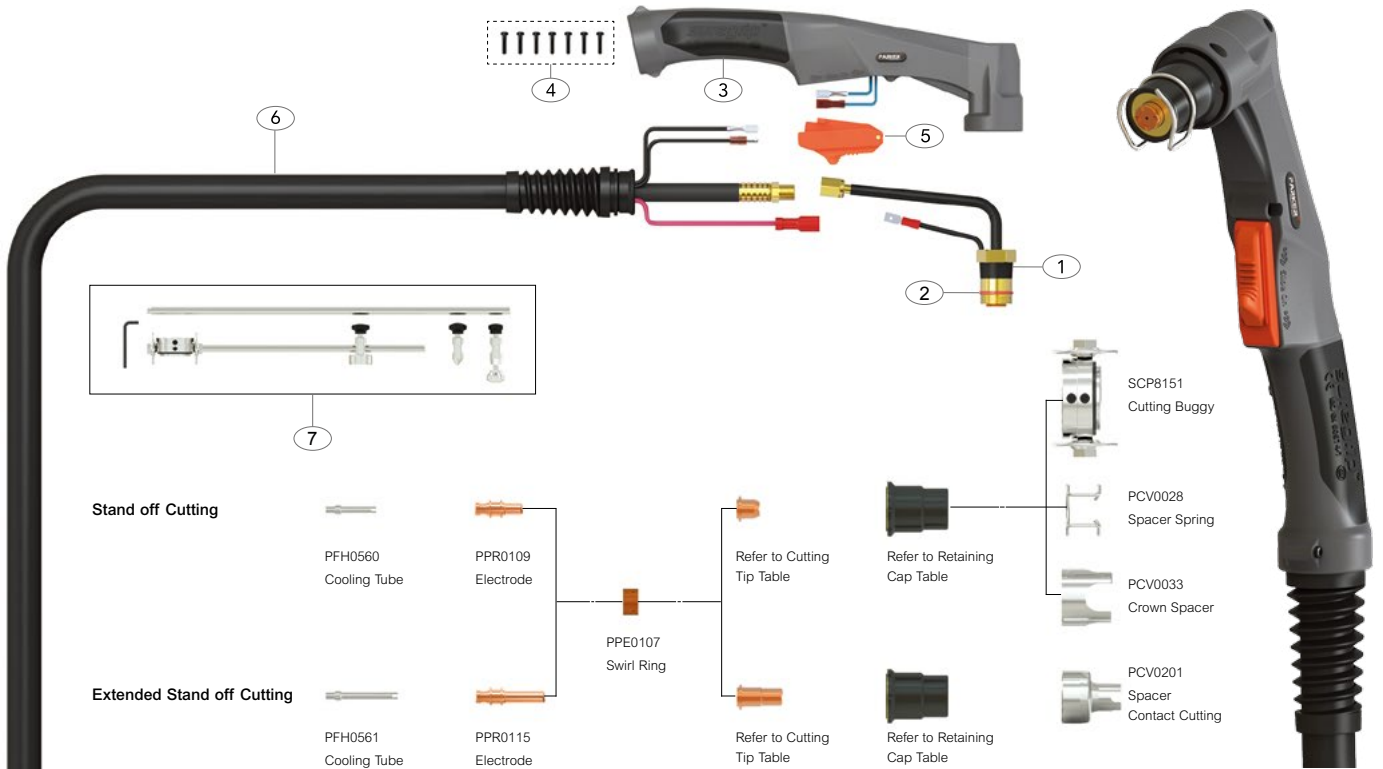
Part No.	Description
1 STR4001	STR40 70° Torch Head Kit
2 SCP2508	O Ring
3 SGP2514	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 SCP2515	Location Block
7 *SCP4019-40 -#	Cable Assembly Complete x 4mt
*SCP4019-60 -#	Cable Assembly Complete x 6mt
8 SCP2550	Circle Cutting Attachment Kit



\*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 30-37  
•Wear Parts Configuration Tables Page 38-41

# STR A81 Suregrip TRF Plasma Cutting Torch Range

Rating: 80A Air/N<sub>2</sub> gas, @ 60% duty cycle.  
Air-Cooled Cutting Torch Range



## Model

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR A81-40-CF9	STR A81-60-CF9

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

## Wear Parts

### Cutting Tips

Part No.	Description	Bore $\varnothing$ A	Amps
*PPD0105-10	Cutting Tip	1.0mm	50A
PPD0105-11	Cutting Tip	1.1mm	60A
PPD0105-12	Cutting Tip	1.2mm	70A
PPD0106-10	Cutting Tip Extended	1.0mm	50A
PPD0106-12	Cutting Tip Extended	1.2mm	70A

### Retaining Caps

Part No.	Description
*PPC0115	Retaining Cap

## Spare Parts

Part No.	Description
1 STR0140	STR81 70° Torch Head Kit
2 SCP8008	O Ring
3 SCP8014/HF	Plasma Handle Kit
4 SCSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 *SCP8119-40 -#	Cable Assembly Complete x 4mt
*SCP8119-60 -#	Cable Assembly Complete x 6mt
7 PCV0052	Circle Cutting Attachment Kit

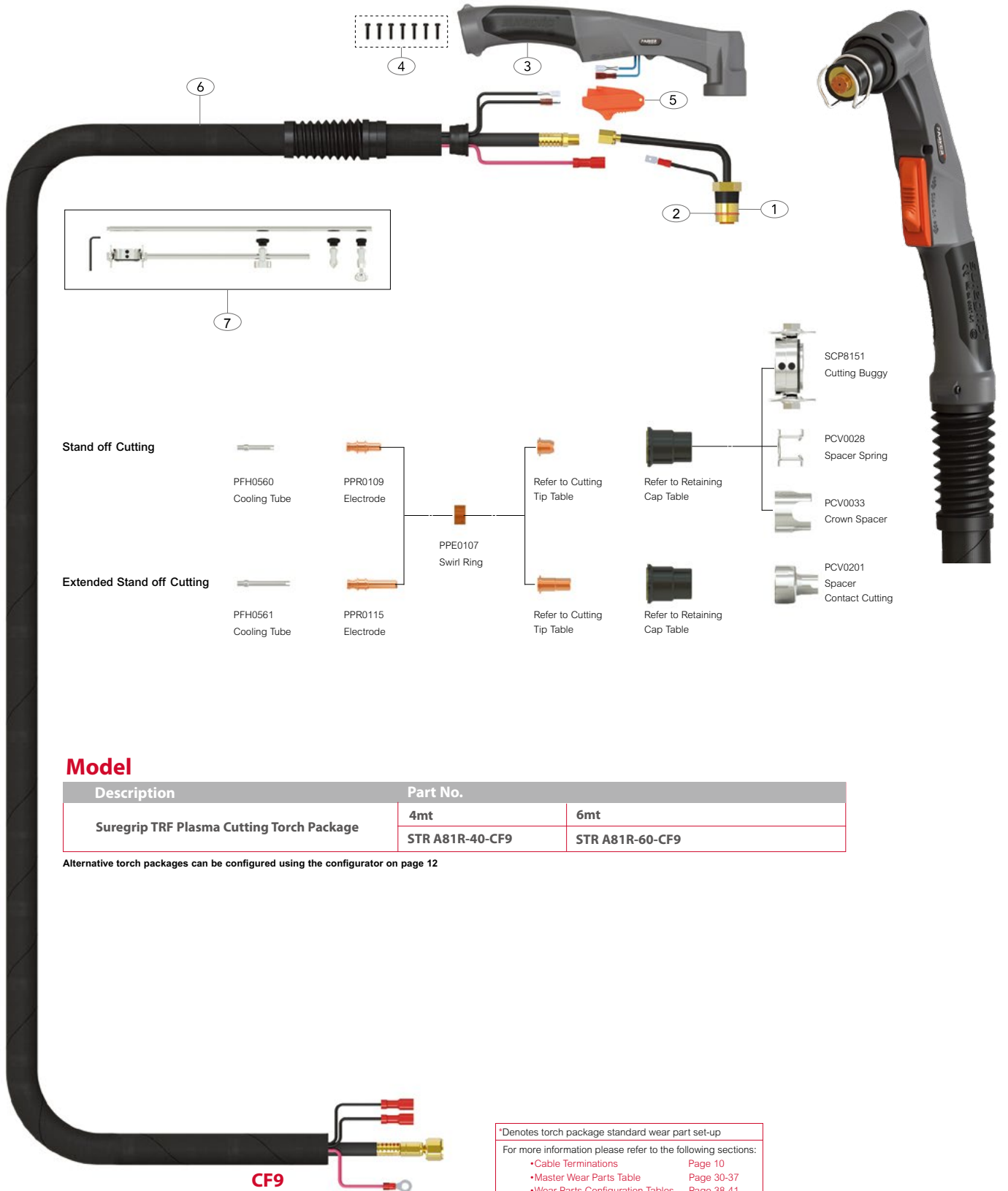
CF9

\*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 30-37  
•Wear Parts Configuration Tables Page 38-41

# STR A81R Suregrip TRF Plasma Cutting Torch Range

Rating: 80A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



## Model

Description	Part No.	
	Suregrip TRF Plasma Cutting Torch Package	4mt
STR A81R-40-CF9		STR A81R-60-CF9

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 30-37  
• Wear Parts Configuration Tables Page 38-41



# STR A81R Suregrip TRF Plasma Cutting Torch Range

Rating: 80A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range

## Wear Parts

### Cutting Tips

Part No.	Description	Bore $\varnothing$ A	Amps
* PPD0105-10	Cutting Tip	1.0mm	50A
PPD0105-11	Cutting Tip	1.1mm	60A
PPD0105-12	Cutting Tip	1.2mm	70A
PPD0106-10	Cutting Tip Extended	1.0mm	50A
PPD0106-12	Cutting Tip Extended	1.2mm	70A

### Retaining Caps

Part No.	Description
*PPC0115	Retaining Cap

## Spare Parts

Part No.	Description
1 STR0140	STR81 70° Torch Head Kit
2 SCP8008	O Ring
3 SCP8014/HF	Plasma Handle Kit
4 SCPSP1	Screw Pack
5 SCP2516	Plasma Safety Trigger
6 *SCP8119-40 -#	Cable Assembly Complete x 4mt
*SCP8119-60 -#	Cable Assembly Complete x 6mt
7 PCV0052	Circle Cutting Attachment Kit



**Stand off Cutting**

- SCP8102 Cooling Tube
- PPR0101 Electrode
- PPE0101 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Retaining Cap Table
- PCV0021 Cutting Buggy
- PCV0011 Spacer Spring
- PCV0012 Double Pointed Spacer
- PCV0014 Crown Spacer

**Extended Stand off Cutting**

- SCP8102 Cooling Tube
- PPR0101 Electrode
- PPE0101 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Shield Cap Table
- PCV0039 Spacer Large Contact Cutting
- PCV0023 Spacer Large Contact Cutting

**Extended Contact Cutting**

- PFH0562E Cooling Tube
- PPR0116 Electrode
- PPE0103 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Shield Cap Table
- Refer to Shield Cap Table
- Refer to Shield Cap Table
- SCP1540 Spacer Contact Cutting
- P1408LN Locking Nut
- SCP1541 Spacer Contact Cutting

**Model**

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR A101-40-CF7	STR A101-60-CF7

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

**CF7**

\*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 30-37  
• Wear Parts Configuration Tables Page 38-41

# STR A101 Suregrip TRF Plasma Cutting Torch Range

Rating: 100A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range

## Wear Parts

### Cutting Tips

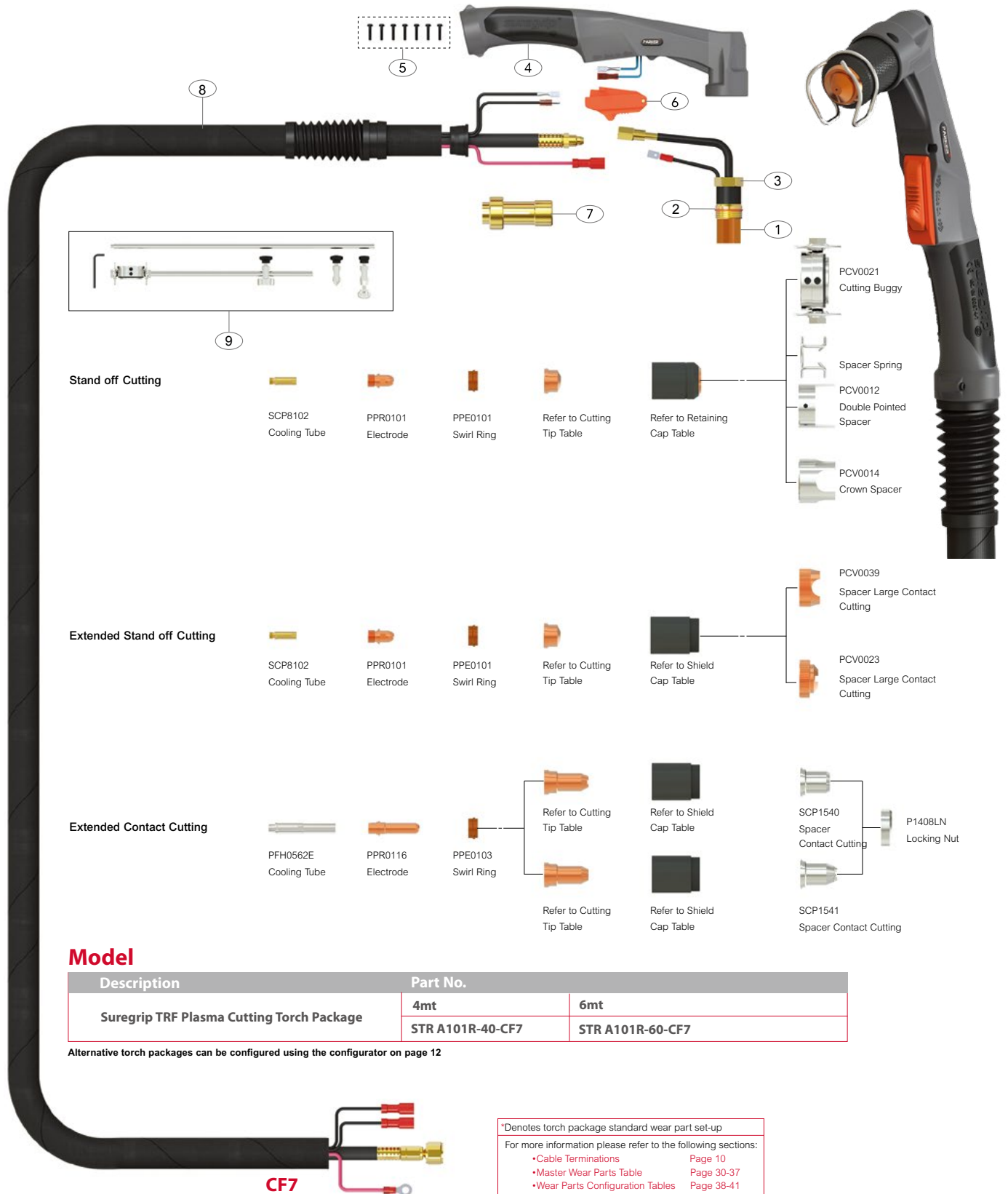
Part No.	Description	Bore Ø A	Amps
PPD0101-11	Cutting Tip	1.1mm	60A
PPD0101-14	Cutting Tip	1.4mm	90A
PPD0101-17	Cutting Tip	1.7mm	140A
* PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A

### Retaining / Shield Caps

Part No.	Description
* PPC0111	Retaining Cap, Long Life
PPC0130	Shield Cap Body Max.Life

## Spare Parts

Part No.	Description
1 SCP1003	Front Insulation
2 SCP1008	O Ring
3 STR0145	STR101 70° Torch Head Kit
4 SCP8014/HF	Plasma Handle Kit
5 SCPSP1	Screw Pack
6 SCP2516	Plasma Safety Trigger
7 PGR60	Extractor For Swirl Ring
8 *SCP10119-40 -#	Cable Assembly Complete x 4mt
*SCP10119-60 -#	Cable Assembly Complete x 6mt
9 PCV0022	Circle Cutting Attachment Kit



# STR A101R Suregrip TRF Plasma Cutting Torch Range

Rating: 100A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



## Wear Parts

### Cutting Tips

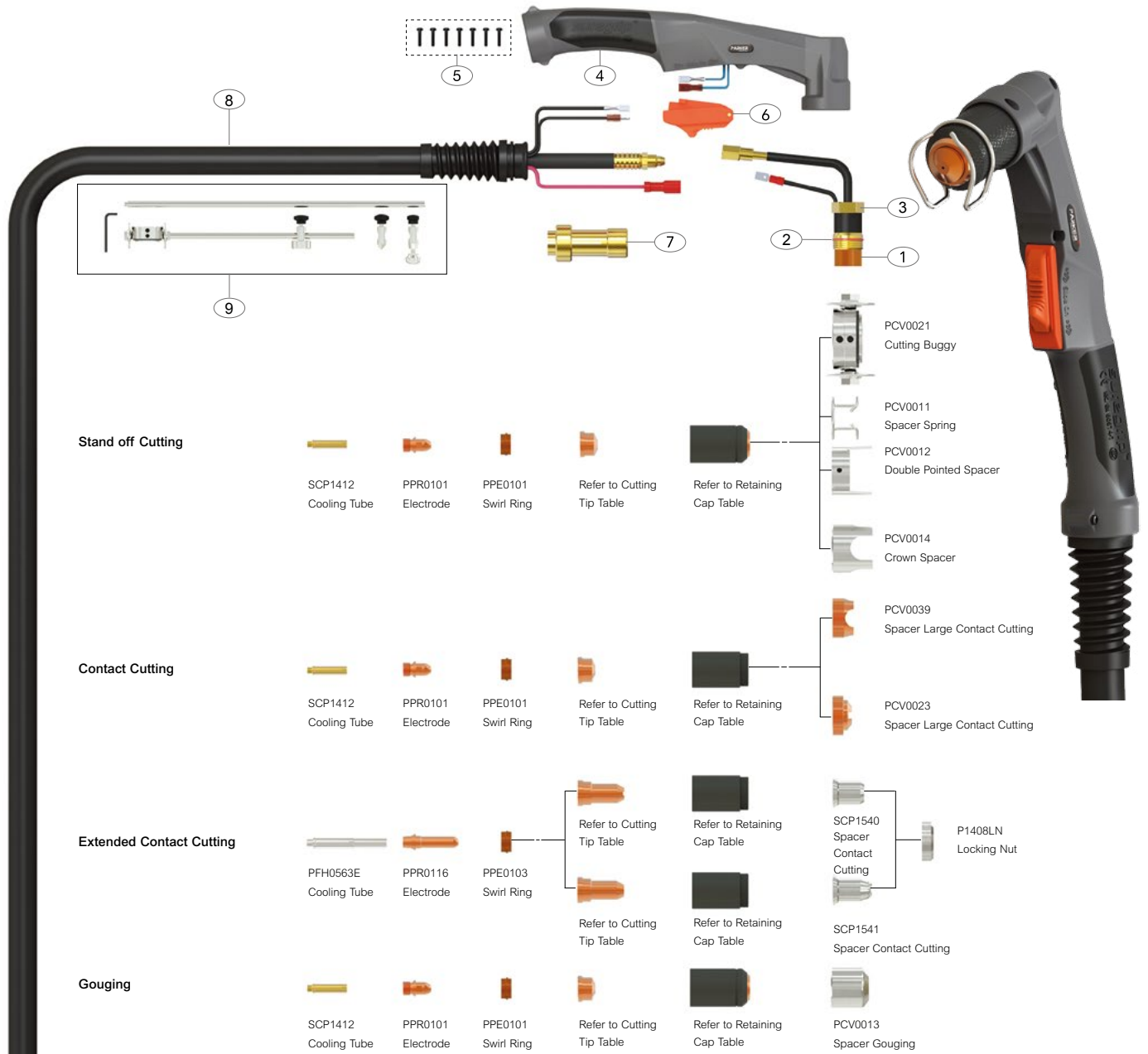
Part No.	Description	Bore Ø A	Amps
PPD0101-11	Cutting Tip	1.1mm	60A
PPD0101-14	Cutting Tip	1.4mm	90A
PPD0101-17	Cutting Tip	1.7mm	140A
* PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A

### Retaining / Shield Caps

Part No.	Description
* PPC0111	Retaining Cap, Long Life
PPC0130	Shield Cap Body Max.Life

## Spare Parts

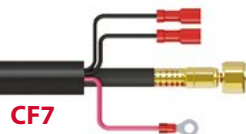
Part No.	Description
1	SCP1003 Front Insulation
2	SCP1008 O Ring
3	STR0145 STR101 70° Torch Head Kit
4	SCP8014/HF Plasma Handle Kit
5	SCPSP1 Screw Pack
6	SCP2516 Plasma Safety Trigger
7	PGR60 Extractor For Swirl Ring
8	*SCP10119-40 -# Cable Assembly Complete x 4mt
	*SCP10119-60 -# Cable Assembly Complete x 6mt
9	PCV0022 Circle Cutting Attachment Kit



**Model**

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR A141-40-CF7	STR A141-60-CF7

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 30-37  
•Wear Parts Configuration Tables Page 38-41

# STR A141 Suregrip TRF Plasma Cutting Torch Range

Rating: 140A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



## Wear Parts

### Cutting Tips

Part No.	Description	Bore Ø A	Amps
PPD0101-11	Cutting Tip	1.1mm	60A
PPD0101-14	Cutting Tip	1.4mm	90A
* PPD0101-17	Cutting Tip	1.7mm	140A
PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A
PPD0101-19	Cutting Tip	1.9mm	150A
PPD0101-30	Gouging Tip	3.0mm	150A

### Retaining / Shield Caps

Part No.	Description
* PPC0102	Retaining Cap, Long Life
PPC0131	Shield Cap Body Max.Life

## Spare Parts

Part No.	Description
1	SCP1503 Front Insulation
2	SCP1008 O Ring
3	STR0155 STR141 70° Torch Head Kit
4	SCP8014/HF Plasma Handle Kit
5	SCPSP1 Screw Pack
6	SCP2516 Plasma Safety Trigger
7	PGR60 Extractor For Swirl Ring
8	*SCP10119-40 -# Cable Assembly Complete x 4mt
	*SCP10119-60 -# Cable Assembly Complete x 6mt
9	PCV0022 Circle Cutting Attachment Kit



**Stand off Cutting**

- SCP1412 Cooling Tube
- PPR0101 Electrode
- PPE0101 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Retaining Cap Table
- PCV0021 Cutting Buggy
- PCV0011 Spacer Spring
- PCV0012 Double Pointed Spacer
- PCV0014 Crown Spacer
- PCV0039 Spacer Large Contact Cutting
- PCV0023 Spacer Large Contact Cutting

**Contact Cutting**

- SCP1412 Cooling Tube
- PPR0101 Electrode
- PPE0101 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Retaining Cap Table
- SCP1540 Spacer Contact Cutting
- SCP1541 Spacer Contact Cutting

**Extended Contact Cutting**

- PFH0563E Cooling Tube
- PPR0116 Electrode
- PPE0103 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Retaining Cap Table
- SCP1540 Spacer Contact Cutting
- SCP1541 Spacer Contact Cutting
- P1408LN Locking Nut

**Gouging**

- SCP1412 Cooling Tube
- PPR0101 Electrode
- PPE0101 Swirl Ring
- Refer to Cutting Tip Table
- Refer to Retaining Cap Table
- PCV0013 Spacer Gouging

**Model**

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR A141R-40-CF7	STR A141R-60-CF7

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

**CF7**

\*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 30-37  
 • Wear Parts Configuration Tables Page 38-41



# STR A141R Suregrip TRF Plasma Cutting Torch Range

Rating: 140A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range

## Wear Parts

### Cutting Tips

Part No.	Description	Bore Ø A	Amps
PPD0101-11	Cutting Tip	1.1mm	60A
PPD0101-14	Cutting Tip	1.4mm	90A
* PPD0101-17	Cutting Tip	1.7mm	140A
PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A
PPD0101-19	Cutting Tip	1.9mm	150A
PPD0101-30	Gouging Tip	3.0mm	150A

### Retaining / Shield Caps

Part No.	Description
* PPC0102	Retaining Cap, Long Life
PPC0131	Shield Cap Body Max.Life

## Spare Parts

Part No.	Description
1 SCP1503	Front Insulation
2 SCP1008	O Ring
3 STR0155	STR141 70° Torch Head Kit
4 SCP8014C/HF	Plasma Handle Kit
5 SCPSP1	Screw Pack
6 SCP2516	Plasma Safety Trigger
7 PGR60	Extractor For Swirl Ring
8 *SCP10119C-40 -#	Cable Assembly Complete x 4mt
*SCP10119C-60 -#	Cable Assembly Complete x 6mt
9 PCV0022	Circle Cutting Attachment Kit

# STR A151 Suregrip TRF Plasma Cutting Torch Range

Rating: 150A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



**Stand off Cutting**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103P Swirl Ring	Refer to Cutting Tip Table	Refer to Retaining Cap Table	PBW0139 Cage Spacer	PCV1105 Cage Spacer
				Refer to Retaining Cap Table	P1389CN Locking Nut	P1394-150 Spacer Spring
						PCV0021 Cutting Buggy

**Contact Cutting**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	P1408C1 Spacer Contact Cutting	P1408LN Locking Nut
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**Gouging**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	P1408G Spacer Gouging	
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**Extended Contact Cutting**

PFH0563E Cooling Tube	PPR0116 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	SCP1540 Spacer Contact Cutting	P1408LN Locking Nut
			Refer to Cutting Tip Table	Refer to Shield Cap Table	SCP1541 Spacer Contact Cutting	

**Model**

Description	Part No.	
	4mt	6mt
Suregrip TRF Plasma Cutting Torch Package	STR A151-40-CF7	STR A151-60-CF7

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

**CF7**

\*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 30-37  
 • Wear Parts Configuration Tables Page 38-41

# STR A151 Suregrip TRF Plasma Cutting Torch Range

Rating: 150A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



## Wear Parts

### Cutting Tips

Part No.	Description	Bore Ø A	Amps
PPD0109-14	Cutting Tip	1.4mm	90A
PPD0109-16	Cutting Tip	1.6mm	120A
* PPD0109-18	Cutting Tip	1.8mm	150A
PPD0109-30	Gouging Tip	3.0mm	150A
PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A

### Retaining / Shield Caps

Part No.	Description
* PPC0120	Retaining Cap
PPC0131	Shield Cap Body Max.Life

## Spare Parts

Part No.	Description
1 SCP1503	Front Insulation
2 SCP1008	O Ring
3 STR0160	STR151 70° Torch Head Kit
4 SCP8014/HF	Plasma Handle Kit
5 SCPSP1	Screw Pack
6 SCP2516	Plasma Safety Trigger
7 *SCP10119-40 -#	Cable Assembly Complete x 4mt
*SCP10119-60 -#	Cable Assembly Complete x 6mt
8 PCV0022	Circle Cutting Attachment Kit



**Stand off Cutting**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103P Swirl Ring	Refer to Cutting Tip Table	Refer to Retaining Cap Table	PBW0139 Cage Spacer	P1389CN Locking Nut	P1394-150 Spacer Spring	PCV1105 Cage Spacer	PCV0021 Cutting Buggy
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**Contact Cutting**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	P1408C1 Spacer Contact Cutting	P1408LN Locking Nut			
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**Gouging**

SCP1412 Cooling Tube	PPR0111 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	P1408G Spacer Gouging				
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**Extended Contact Cutting**

PFH0563E Cooling Tube	PPR0116 Electrode	PPE0103 Swirl Ring	Refer to Cutting Tip Table	Refer to Shield Cap Table	SCP1540 Spacer Contact Cutting	P1408LN Locking Nut			
			Refer to Cutting Tip Table	Refer to Shield Cap Table	SCP1541 Spacer Contact Cutting				

**Model**

Description	Part No.	
	Suregrip TRF Plasma Cutting Torch Package	4mt
STR A151-40-CF7		STR A151-60-CF7

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 30-37  
•Wear Parts Configuration Tables Page 38-41

CF7

# STR A151R Suregrip TRF Plasma Cutting Torch Range

Rating: 150A Air/N<sub>2</sub> gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



## Wear Parts

### Cutting Tips

Part No.	Description	Bore Ø A	Amps
PPD0109-14	Cutting Tip	1.4mm	90A
PPD0109-16	Cutting Tip	1.6mm	120A
* PPD0109-18	Cutting Tip	1.8mm	150A
PPD0109-30	Gouging Tip	3.0mm	150A
PPD0111-12	Cutting Tip Extended	1.2mm	70A
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A

### Retaining / Shield Caps

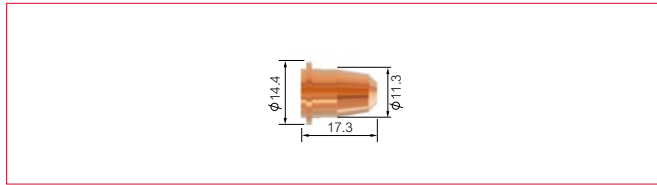
Part No.	Description
* PPC0120	Retaining Cap
PPC0131	Shield Cap Body Max.Life

## Spare Parts

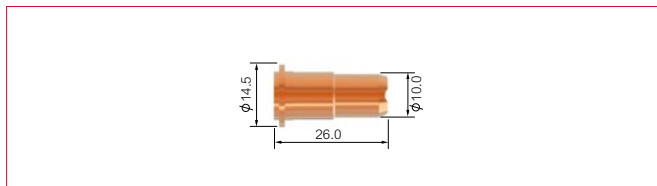
Part No.	Description
1 SCP1503	Front Insulation
2 SCP1008	O Ring
3 STR0160	STR151 70° Torch Head Kit
4 SCP8014/HF	Plasma Handle Kit
5 SCPSP1	Screw Pack
6 SCP2516	Plasma Safety Trigger
7 *SCP10119-40 -#	Cable Assembly Complete x 4mt
*SCP10119-60 -#	Cable Assembly Complete x 6mt
8 PCV0022	Circle Cutting Attachment Kit

**STR S25K**

Part No.	Description	Bore $\phi$ A	Amps
* PPD0116-06	Cutting Tip	0.6mm	25A

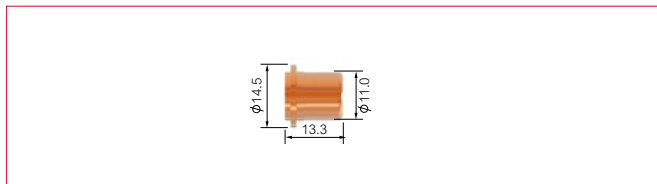


PPD0103-65	Cutting Tip	0.65mm	25A
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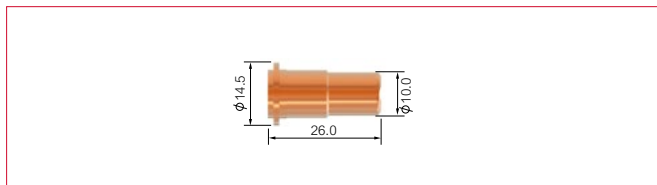


**STR A81/A81R**

Part No.	Description	Bore $\phi$ A	Amps
PPD0105-10	Cutting Tip	1.0mm	50A
PPD0105-11	Cutting Tip	1.1mm	60A
* PPD0105-12	Cutting Tip	1.2mm	70A

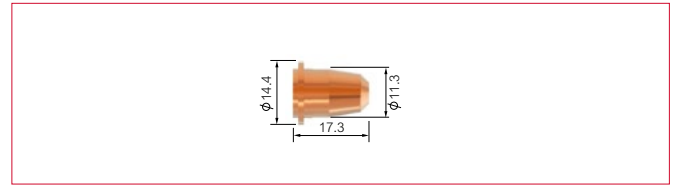


PPD0106-10	Cutting Tip Extended	1.0mm	50A
PPD0106-12	Cutting Tip Extended	1.2mm	70A

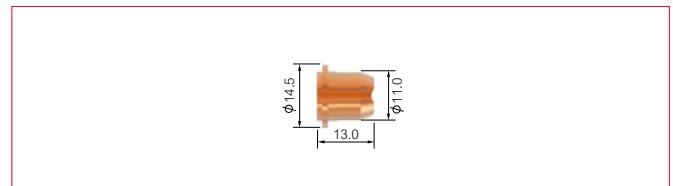


**STR S45**

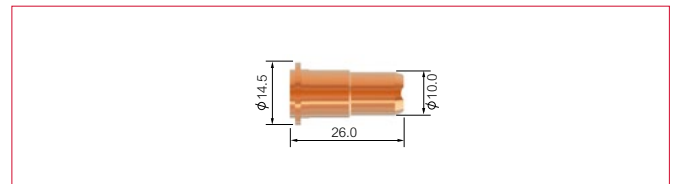
Part No.	Description	Bore $\phi$ A	Amps
* PPD0116-08	Cutting Tip	0.8mm	30A



PPD0102-10	Cutting Tip	1.0mm	50A
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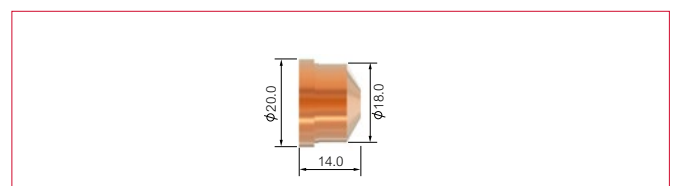


PPD0103-09	Cutting Tip Extended	0.9mm	40A
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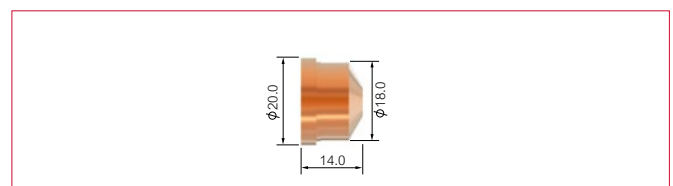


**STR A141/A141R**

Part No.	Description	Bore $\phi$ A	Amps
* PPD0101-19	Cutting Tip	1.9mm	150A



* PPD0101-30	Gouging Tip	3.0mm	150A
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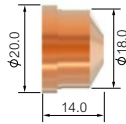


\* Denotes torch package standard wear part set-up

## Cutting Tips

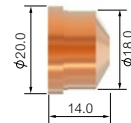
### STR A101/A101R/A141/A141R

Part No.	Description	Bore $\phi$ A	Amps
PPD0101-11	Cutting Tip	1.1mm	60A
PPD0101-14	Cutting Tip	1.4mm	90A
* PPD0101-17	Cutting Tip	1.7mm	140A



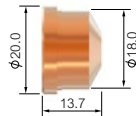
### STR A151/A151R

Part No.	Description	Bore $\phi$ A	Amps
PPD0109-30	Gouging Tip	3.0mm	150A



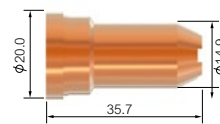
### STR A151/A151R

Part No.	Description	Bore $\phi$ A	Amps
PPD0109-14	Cutting Tip	1.4mm	90A
PPD0109-16	Cutting Tip	1.6mm	120A
* PPD0109-18	Cutting Tip	1.8mm	150A

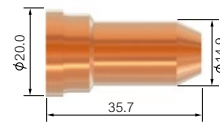


### STR A101/A101R/A141/A141R/A151/A151R

Part No.	Description	Bore $\phi$ A	Amps
PPD0111-12	Cutting Tip Extended	1.2mm	70A



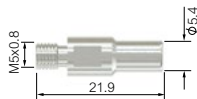
PPD0117-14	Cutting Tip Extended	1.4mm	90A
PPD0117-17	Cutting Tip Extended	1.7mm	140A
PPD0117-19	Cutting Tip Extended	1.9mm	150A



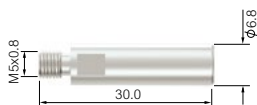
## Electrodes

### STR S25K/S45

Part No.	Description
* PPR0110	Electrode

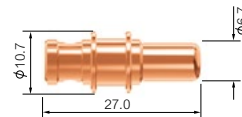


PPR0106	Electrode
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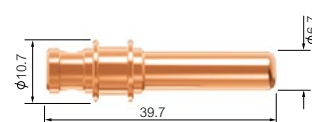


### STR A81/A81R

Part No.	Description
* PPR0109	Electrode



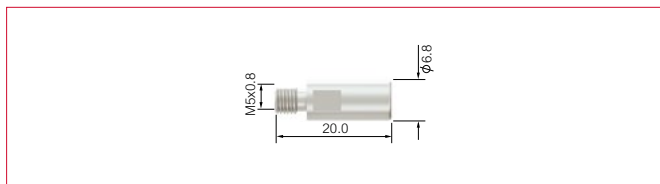
PPR0115	Electrode Extended
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\* Denotes torch package standard wear part set-up

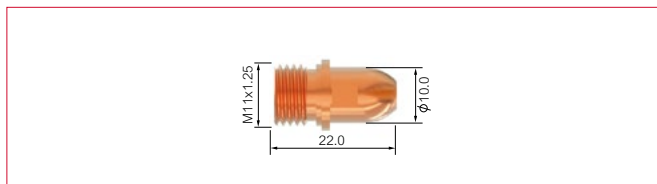
**STR S45**

Part No.	Description
PPR0105	Electrode



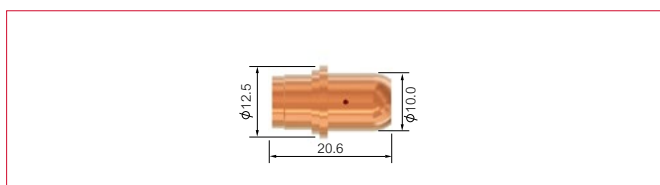
**STR A101/A101R/A141/A141R**

Part No.	Description
* PPR0101	Electrode



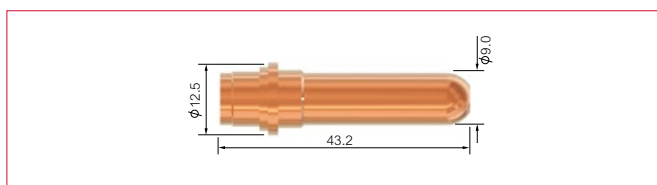
**STR A151/A151R**

Part No.	Description
* PPR0111	Electrode



**STR A101/A101R/A141/A141R/A151/A151R**

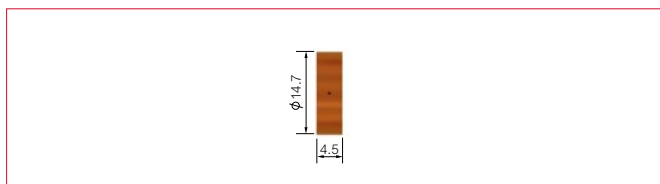
Part No.	Description
PPR0116	Electrode Extended



**Swirl Rings**

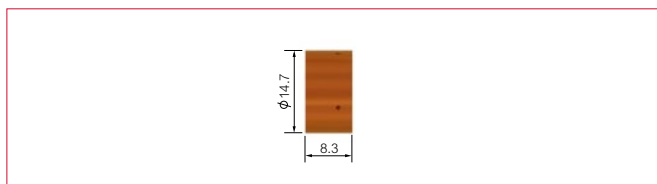
**STR S25K/S45**

Part No.	Description
* PPE0106	Swirl Ring



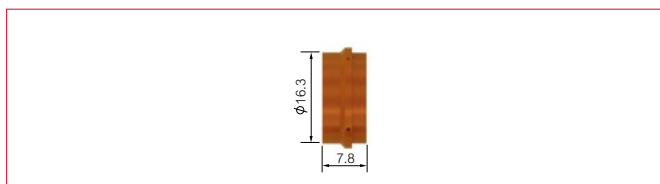
**STR A81/A81R**

Part No.	Description
* PPE0107	Swirl Ring



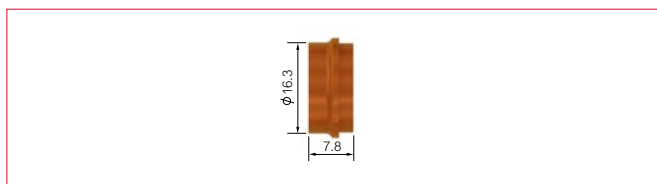
**STR A101/A101R/A141/A141R**

Part No.	Description
* PPE0101	Swirl Ring



**STR A101/A101R/A141/A141R/A151/A151R**

Part No.	Description
* PPE0103	Swirl Ring



\* Denotes torch package standard wear part set-up



## Retaining Caps

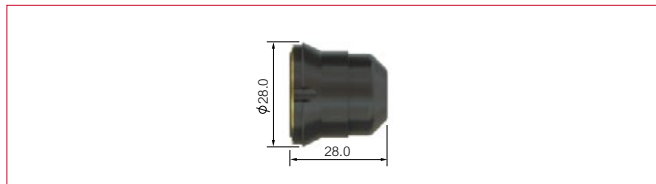
### STR S25K

Part No.	Description
* PPC0117	Retaining Cap, 2 Holes



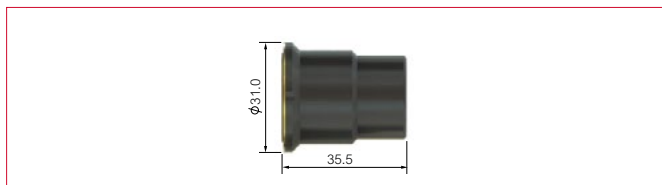
### STR S45

Part No.	Description
* PPC0116	Retaining Cap, 6 Holes



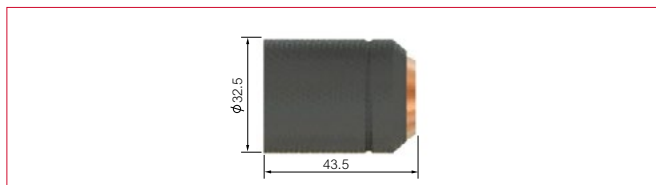
### STR A81/A81R

Part No.	Description
* PPC0115	Retaining Cap



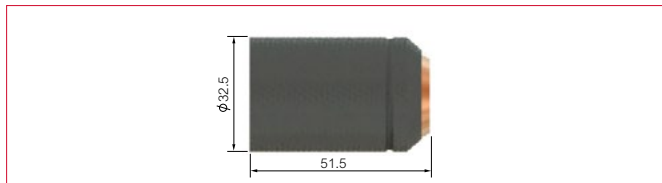
### STR A101/A101R

Part No.	Description
* PPC0111	Retaining Cap, Long Life



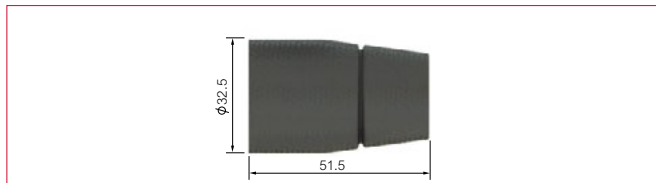
### STR A141/A141R

Part No.	Description
* PPC0102	Retaining Cap, Long Life



### STR A151/A151R

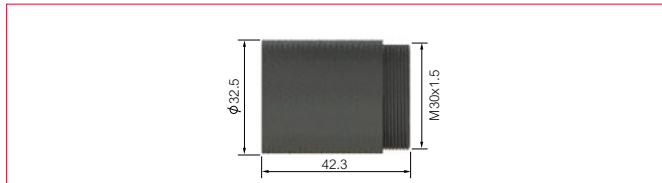
Part No.	Description
* PPC0120	Retaining Cap



## Shield Cap Bodies

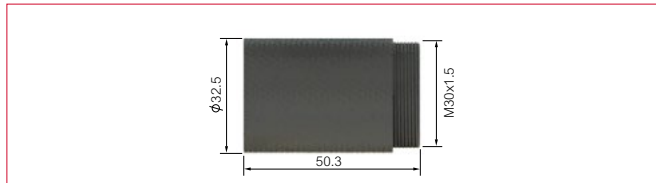
### STR A101/A101R

Part No.	Description
PPC0130	Shield Cap Body Max.Life



### STR A141/A141R/A151/A151R

Part No.	Description
PPC0131	Shield Cap Body Max.Life

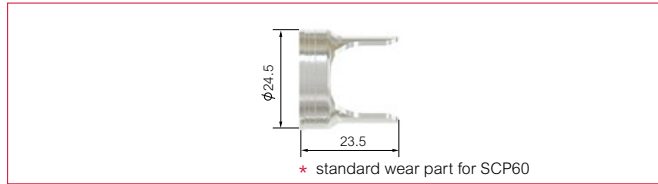


\* Denotes torch package standard wear part set-up

Stand off Guides

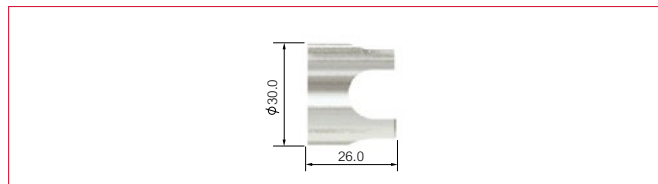
**STR S45**

Part No.	Description
* SCP2540	Double Pointed Spacer

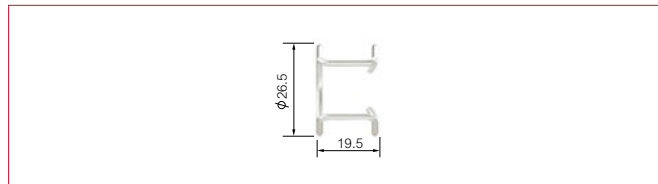


**STR A81/A81R**

Part No.	Description
PCV0033	Spacer Crown

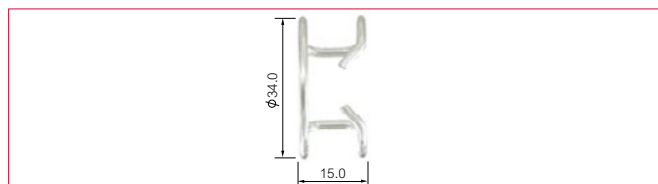


* PCV0028	Spacer Spring
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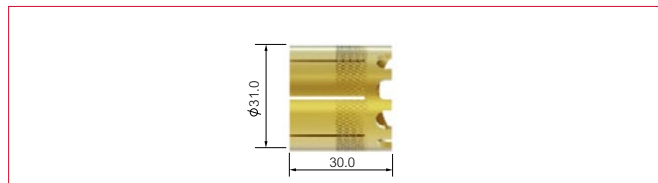


**STR A151/A151R**

Part No.	Description
P1394-150	Spacer Spring



* PCV1105	Spacer Cage
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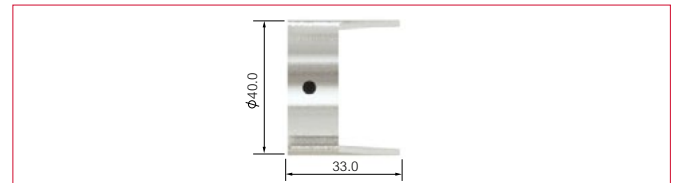
\* Denotes torch package standard wear part set-up

**STR A101/A101R/A141/A141R**

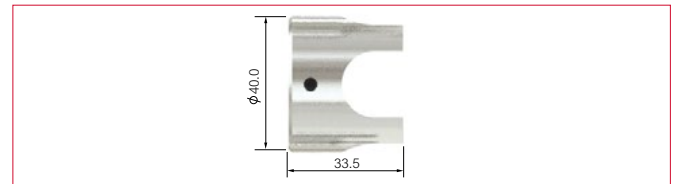
Part No.	Description
* PCV0011	Spacer Spring



PCV0012	Spacer Double Pointed
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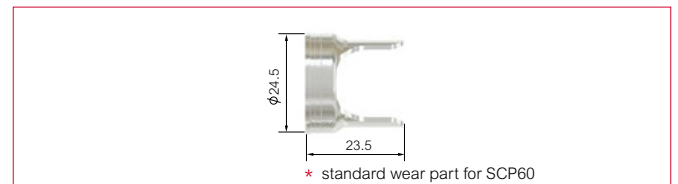


PCV0014	Spacer Crown
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**STR S45**

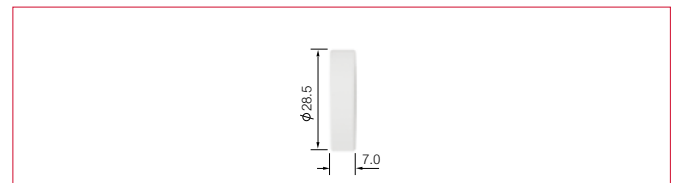
Part No.	Description
* SCP2540	Double Pointed Spacer



Shield Caps

**STR A151/A151R**

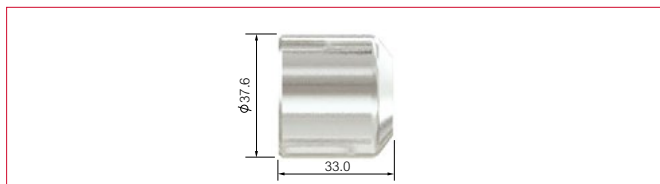
Part No.	Description
* PBW0139	Nozzles Shield



## Spacer for Gouging

### STR A141/A141R/A151/A151R

Part No.	Description
PCV0013	Spacer Gouging



### STR A151/A151R

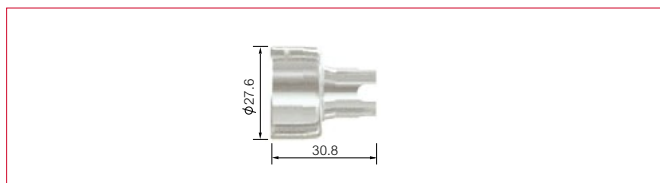
Part No.	Description
P1408G	Spacer Gouging



## Spacer for Contact Cutting

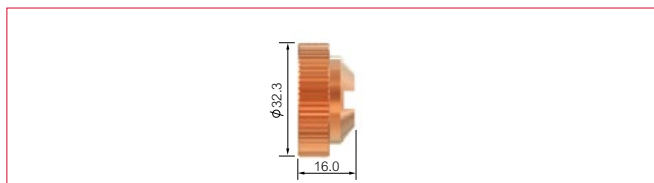
### STR A81/A81R

Part No.	Description
PCV0201	Spacer Contact Cutting

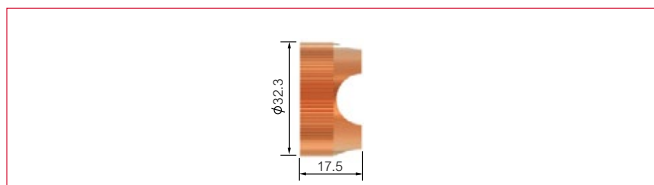


### STR A101/A101R/A141/A141R

Part No.	Description
PCV0023	Spacer Contact Cutting

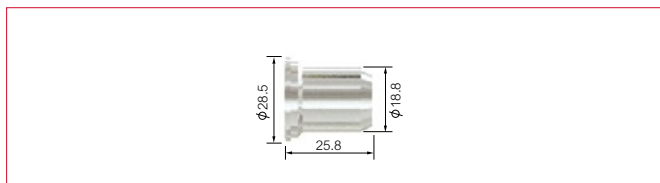


PCV0039	Spacer Contact Cutting Large
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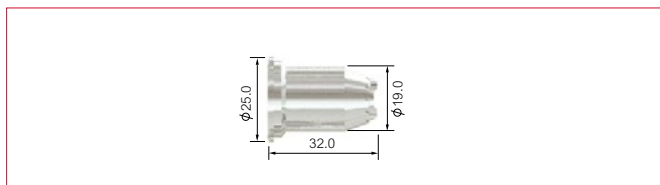


### STR A101/A101R/A141/A141R/A151/A151R

Part No.	Description
PCV0008	Spacer Contact Cutting

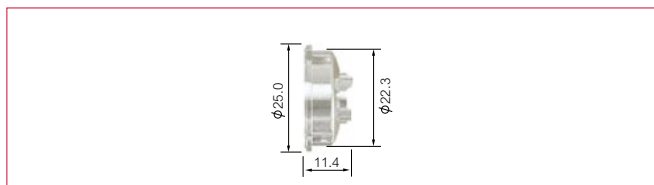


PCV0009	Spacer Contact Cutting
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### STR A151/A151R

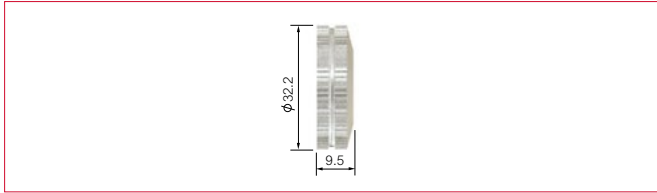
Part No.	Description
P1408C1	Spacer Contact Cutting



\* Denotes torch package standard wear part set-up

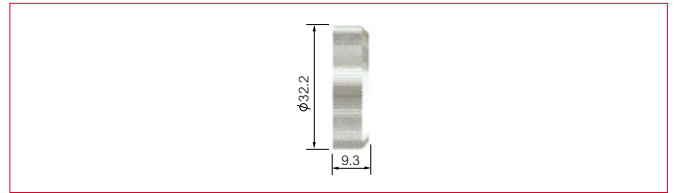
**STR A151/A151R**

Part No.	Description
P1389CN	Locking Nut



**STR A101/A101R/A141/A141R/A151/A151R**

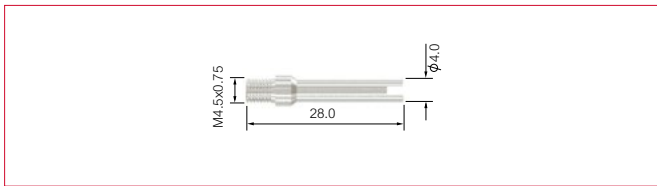
Part No.	Description
P1408LN	Locking Nut



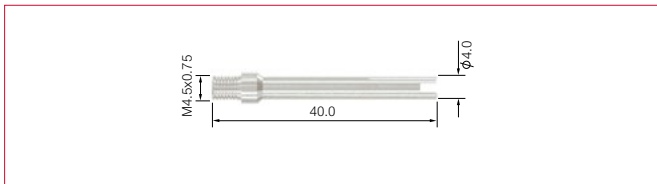
**Cooling Tubes**

**STR A81/A81R**

Part No.	Description
* PFH0560	Cooling Tube

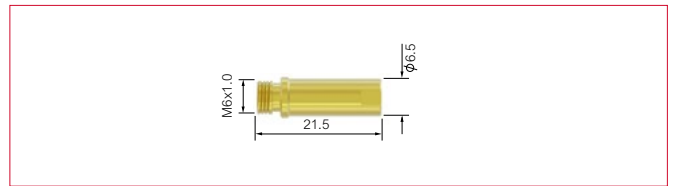


PFH0561	Cooling Tube Extended
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**STR A101/A101R**

Part No.	Description
* SCP8102	Cooling Tube

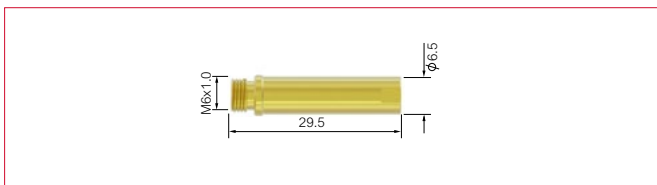


PFH0562E	Cooling Tube Extended
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**STR A141/A141R/A151/A151R**

Part No.	Description
* SCP1412	Cooling Tube



**STR A141/A141R/A151/A151R**

Part No.	Description
PFH0563E	Cooling Tube Extended

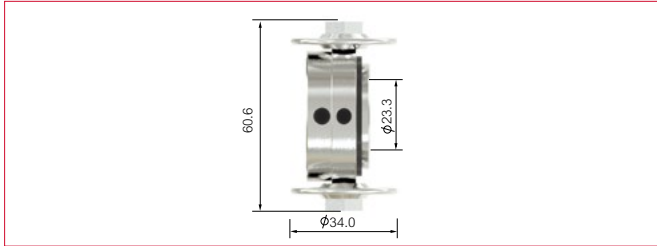


\* Denotes torch package standard wear part set-up

## Cutting Buggies

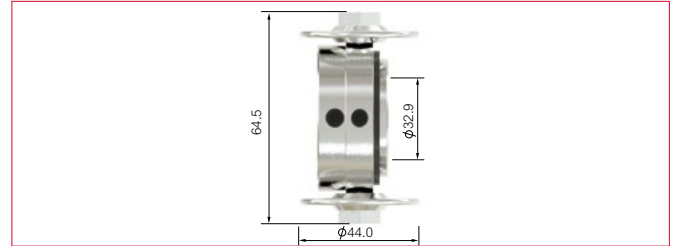
### STR S25K/S45

Part No.	Description
SCP2551	Cutting Buggy



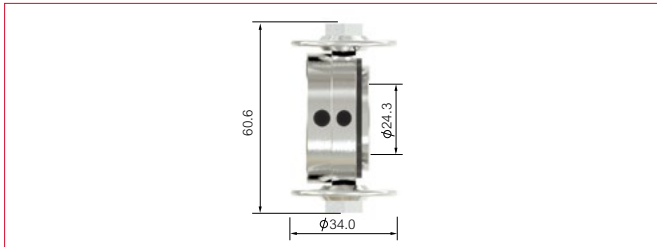
### STR A101/A101R/A141/A141R/A151/A151R

Part No.	Description
PCV0021	Cutting Buggy



### STR A81/A81R

Part No.	Description
SCP8151	Cutting Buggy



## Circle / Cutting Attachment Kits

### STR S25K/S45

### STR A81/A81R

### STR A101/A101R/A141/A141R/A151/A151R

Part No.	Description	Part No.	Description	Part No.	Description
SCP2550	Circle / Cutting Attachment Kit	SCP8150	Circle / Cutting Attachment Kit	PCV0022	Circle / Cutting Attachment Kit



\* Denotes torch package standard wear part set-up

**STR S25K Series**

Stand off Cutting

Stand off Cutting



PPR0110  
Electrode



PPE0106  
Swirl Ring



PPD0116-06  
Cutting Tip Range



PPC Range  
Retaining Cap Range



SCP2551  
Cutting Buggy

Extended Stand off Cutting



PPR0106  
Electrode



PPE0106  
Swirl Ring



PPD0103-65  
Cutting Tip Range



PPC0117  
Retaining Cap Range

\* Wear parts part number and sizes are available on pages 30-37

**STR S45 Series**

Stand off Cutting



PPR0105  
Electrode



PPE0106  
Swirl Ring



PPD0102-10  
Cutting Tip Range



PPC Range  
Retaining Cap Range



SCP2551  
Cutting Buggy



PPR0110  
Electrode



PPD0116-08  
Cutting Tip Range



PPC Range  
Retaining Cap Range



SCP2540  
Stand off Guide

Extended Stand off Cutting



PPR0106  
Electrode



PPE0106  
Swirl Ring



PPD0103-09  
Cutting Tip Range



PPC0116  
Retaining Cap Range

\* Wear parts part number and sizes are available on pages 30-37

**STR A81/A81R Series**

Stand off Cutting



PFH0560  
Cooling Tube



PPR0109  
Electrode



PPE0107  
Swirl Ring



PPD Range  
Cutting Tip Range



PPC0115  
Retaining Cap Range



SCP8151  
Cutting Buggy



PCV0028  
Spacer Spring



PCV0033  
Crown Spacer

Extended Stand off Cutting



PFH0561  
Cooling Tube



PPR0115  
Electrode



PPE0107  
Swirl Ring



PPD Range  
Cutting Tip Range



PPC0115  
Retaining Cap Range

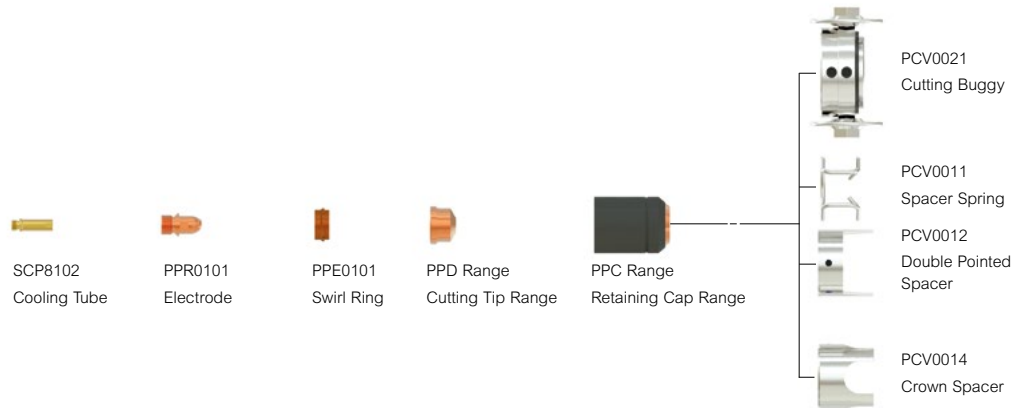


PCV0201  
Spacer  
Contact Cutting

\* Wear parts part number and sizes are available on pages 30-37

## STR A101/A101R Series

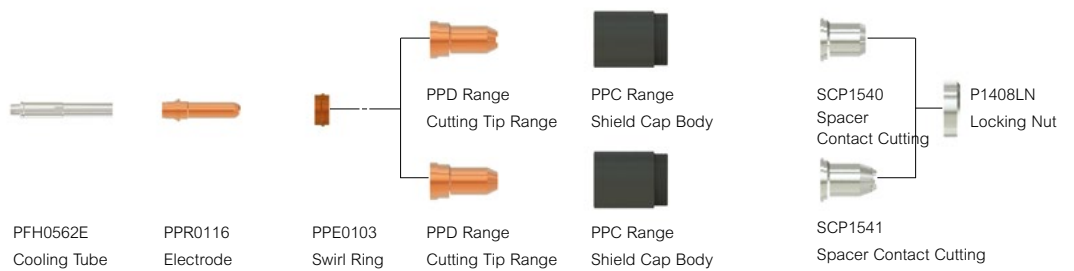
### Stand off Cutting



### Extended Stand off Cutting


















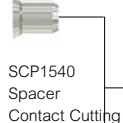









### Extended Contact Cutting



\* Wear parts part number and sizes are available on pages 30-37

**STR A141/A141R Series**

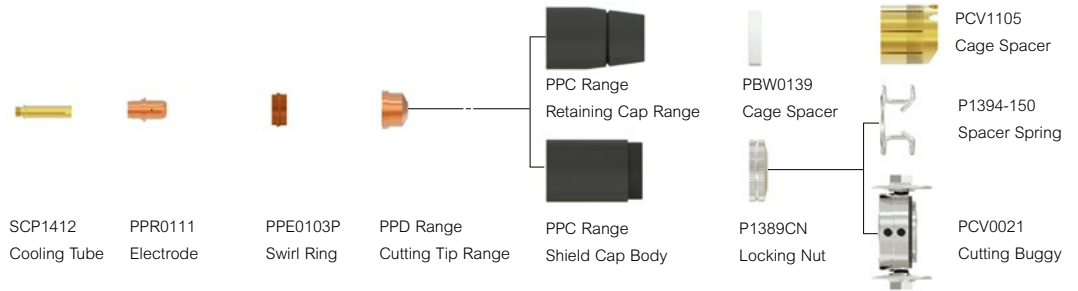
<b>Stand off Cutting</b>							PCV0021 Cutting Buggy
	SCP1412 Cooling Tube	PPR0101 Electrode	PPE0101 Swirl Ring	PPD Range Cutting Tip Range	PPC Range Retaining Cap Range		PCV0011 Spacer Spring
							PCV0012 Double Pointed Spacer
							PCV0014 Crown Spacer
<b>Contact Cutting</b>							PCV0039 Spacer Large Contact Cutting
	SCP1412 Cooling Tube	PPR0101 Electrode	PPE0101 Swirl Ring	PPD Range Cutting Tip Range	PPC Range Shield Cap Body		PCV0023 Spacer Large Contact Cutting
<b>Extended Contact Cutting</b>							P1408LN Locking Nut
	PFH0563E Cooling Tube	PPR0116 Electrode	PPE0103 Swirl Ring	PPD Range Cutting Tip Range	PPC Range Shield Cap Body		SCP1541 Spacer Contact Cutting
<b>Gouging</b>							PCV0013 Spacer Gouging
	SCP1412 Cooling Tube	PPR0101 Electrode	PPE0101 Swirl Ring	PPD Range Cutting Tip Range	PPD0101-30 Couging Tip		

\* Wear parts part number and sizes are available on pages 30-37



## STR A151/A151R Series

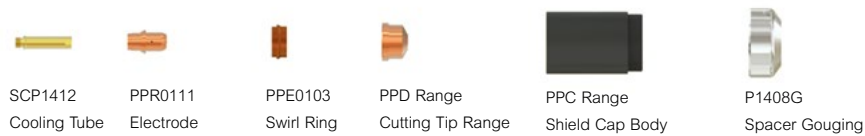
### Stand off Cutting



### Contact Cutting



### Gouging



### Extended Contact Cutting



\* Wear parts part number and sizes are available on pages 30-37



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