

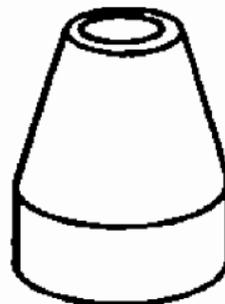
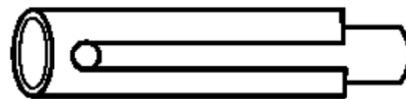
SanRex

Plasma Welding Torch Catalog

PWH/M P75, P15, P22, P30



Look for high quality Sanrex consumable parts for your Plasma Welding Torches.



SANREX PLASMA TORCHES

Compatible with Thermal Arc 2A, 3A, 4A and PWM300 Torches.



Manual Plasma Torches
70°, 90° and 180° (PWH)

Rack & Pinion Automated
Plasma Torches 180°
Inline or Offset (PWM)

WELDING PROCESSES: Plasma Arc Welding (PAW)

Various Plasma Torches (see chart below) come complete with:

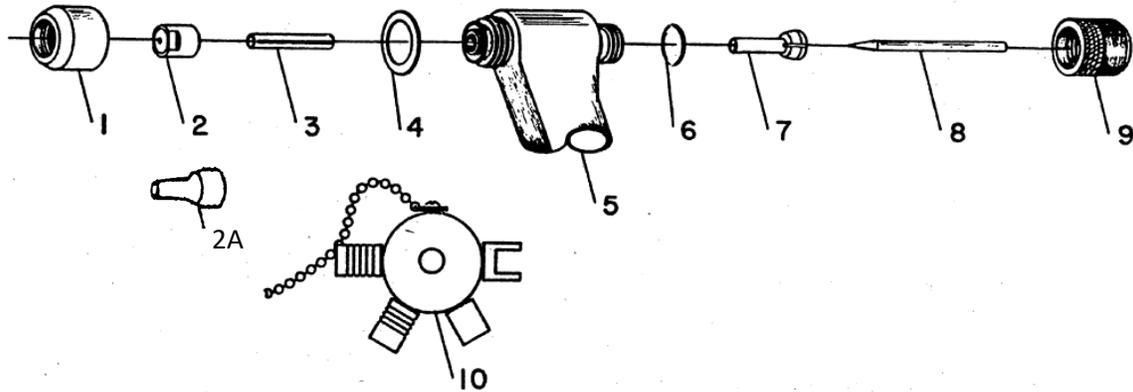
- Rack & Pinion Assembly (PWM designated models)
- 12.5 ft (3.8 m) or 25 ft (7.6 m) Lead
- Operator's Manual (not shown)

Plasma Torch Specifications

Torch	Type	Part No.	Torch Lead Length	Current Rating	Coolant Requirements	Torch Dimensions							
						A	B	C		D	E		
	PWH-75A 70°	P75-1000	12.5 ft (3.8 m)	75 Amps (DCSP)	2,000 BTU/hr (504 K/Cal/hr) 1/4 gpm coolant flow @ 50 PSI (0.9 lpm @ 3.7 kg/cm²)	7-15/16" (202 mm)	1-11/16" (43 mm)	5/8" (16 mm)		7/8" (22 mm)			
		P75-1001	25 ft (7.6 m)										
	PWH-75A 90°	P75-1002	12.5 ft (3.8 m)										
		P75-1003	25 ft (7.6 m)										
	PWM-75A 180° Offset	P75-1004 P75-1005	12.5 ft (3.8 m)							Min. 9-1/4" (235 mm)	Max. 15" (381 mm)	1-3/8" (35 mm)	
		P75-1006	25 ft (7.6 m)										
	PWH-15A 70°	P15-1000	12.5 ft (3.8 m)	150 Amps (DCSP)	6,000 BTU/hr (1513 K/Cal/hr) 1/3 gpm coolant flow @ 50 PSI (1.25 lpm @ 3.7 kg/cm²)	8-3/4" (222 mm)	2-5/8" (67 mm)	7/8" (22 mm)		1-1/16" (27 mm)			
		P15-1001	25 ft (7.6 m)										
	PWH-15A 90°	P15-1002	12.5 ft (3.8 m)										
		P15-1003	25 ft (7.6 m)										
	PWM-15A 180° Offset	P15-1004 P15-1005	12.5 ft (3.8 m)							Min. 9-1/4" (235 mm)	Max. 16-3/4" (425 mm)	1-3/8" (35 mm)	
		P15-1006 P15-1007	25 ft (7.6 m)										
	PWH-22A 70°	P22-1000	12.5 ft (3.8 m)	220 Amps (DCSP)	8,000 BTU/hr (2017 K/Cal/hr) 1/2 gpm coolant flow @ 50 PSI (1.9 lpm @ 3.7 kg/cm²)	12-1/2" (318 mm)	3-3/16" (81 mm)	1-1/4" (32 mm)		1-3/8" (35 mm)			
		P22-1001	25 ft (7.6 m)										
	PWH-22A 90°	P22-1002	12.5 ft (3.8 m)										
		P22-1003	25 ft (7.6 m)										
	PWM-22A 180° Offset	P22-1010 P22-1004	12.5 ft (3.8 m)							Min. 8-1/4" (209 mm)	Max. 16" (406 mm)	1-3/8" (35 mm)	1-1/4" (32 mm)
		P22-1011 P22-1005	25 ft (7.6 m)										
	PWM-22A1 180° Inline	P22-1006 P22-1008	12.5 ft (3.8 m)							Min. 11-1/4" (286 mm)	Max. 19" (483 mm)	1-3/8" (35 mm)	1-1/4" (32 mm)
		P22-1007 P22-1009	25 ft (7.6 m)										
	PWM-30	P30-1000	12.5 ft (3.8 m)	300 Amps (DCSP)	12,000 BTU/hr (3025 K/Cal/hr) 3/4 gpm coolant flow @ 100 PSI (1.9 lpm @ 3.7 kg/cm²)	22-3/16" (56 mm)	2-1/2" (64 mm)	Min. 8-1/4" (209 mm)	Max. 8-1/4" (209 mm)	1-3/8" (35 mm)	1-5/8" (41 mm)		
		P30-1001	25 ft (7.6 m)										

NOTE: (PWH) Designates torch with molded handle, (PWM) Designates torch with rack and pinion assembly

PWH/M P75 Complete Assembly Replacements



Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1.	P75-3001	8-2071	Shield Cup	5	4.	P75-3015	8-2036	Gasket	5
	P75-3000	8-3236	Shield Cup, Ext.	10	5.	P75-2001	8-2027	Torch Head, 70°	1
2.	P75-3002	8-2023	Tip, .046, 35A	10		P75-2002	8-2028	Torch Head, 90°	1
	P75-3003	8-2024	Tip, .062, 55A	10		P75-2003	8-2097	Torch Head, Machine	1
	P75-3004	8-2025	Tip, .081, 75A	10	6.	P75-3016	8-2035	O-Ring	10
2A.	P75-3005	8-2079	Tip, Long, .031, 5A	10	7.	P75-3017	8-2039	Collet	1
	P75-3006	8-2080	Tip, Long, .046, 10A	10		P75-3018	8-2041	Collet (.040)	1
	P75-3007	8-2082	Tip, Long, .062, 15A	10	8.	P75-3011	8-2044	Electrode (.040), Std.	5
	P75-3008	8-2083	Tip, Long, .081, 25A	10	8.	P75-3010	8-2006	Electrode, Ext. (.093)	5
3.	P75-3013	8-2040	Gas Distributor	1	8.	P75-3009	8-2033	Electrode, Std. (.093)	5
	P75-3014	8-2042	Gas Distributor (.040)	1	9.	P75-3019	8-2032	Back Cap	1
8.	P75-3012	8-2046	Electrode, Ext. (.040)	5		P75-3020	8-2030	Back Cap, Extended	1

Hand Torch



Machine Torch

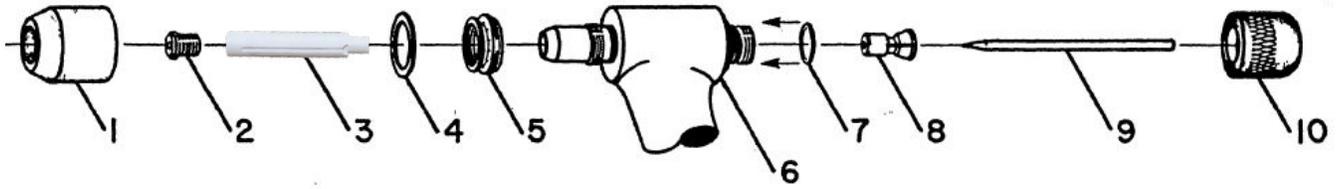


Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1.	P75-2007	8-2026	Handle	1	4.		8-5005	Mounting Tube	1
2.	P30-2005	8-4018	Nut	1	5.	P30-2008	7-2827	Pinion Assembly	1
3.	P75-2010	8-2063	Sleeve	1	10.	P75-2006	8-2021	Wrench/Gauge	1

P75 Torch Lead Sets

Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
NS	P75-2004	4-2539	Leads 12 1/2'	1	NS	P75-2005	4-2589	Leads 25'	1

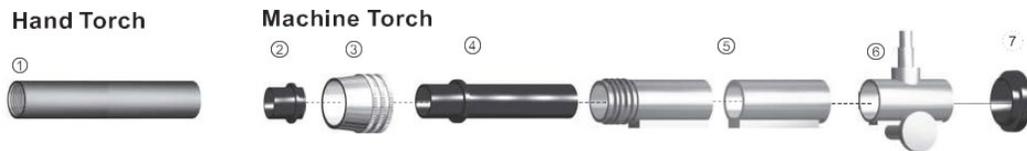
PWH/M P15 Complete Assembly Replacements



P15 Consumables

Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1.	P15-3001	8-3040	Shield Cup w/gas lens	1	6.	P15-2003	8-3032	Torch Head 180° offset	1
	P15-3000	8-3038	Shield Cup no gas lens	1		P15-2001	8-3030	Torch Head 70°	1
2.	P15-3003	8-3052	Tip, .014, 10A – Std.	10		P15-2002	8-3031	Torch Head 90°	1
	P15-3005	9-1782	Tip, .031, 30A – Std.	10	7.	P15-3020	8-0527	O-Ring Electrode Cap	10
	P15-3006	9-1783	Tip, .046, 50A – Std.	10	8.	P15-3021	9-1780	Collet	1
	P15-3007	9-1784	Tip, .062, 75A – Std.	10	10.	P15-3022	9-1779	Electrode Cap – Standard	1
	P15-3008	9-1785	Tip, .081, 100A – Std.	10	NS	P15-3023	9-1803	Electrode Cap – Extended	1
	P15-3009	9-1795	Tip, .093, 150A – Std.	10	NS	P15-2010	9-1757	PWH Handle	1
	P15-3010	9-1788	Tip Long, .031, 10A – Ext.	10	NS	P15-3026	9-1778	Sleeve	1
	P15-3011	9-1789	Tip Long, .046, 20A – Ext.	10	NS	P30-2005	8-4018	Nut	1
	P15-3012	9-1790	Tip Long, .062, 55A – Ext.	10	NS	P30-2006	9-1901	Adaptor	1
	P15-3013	9-1791	Tip Long, .081, 75A – Ext.	10	NS	P30-2010	8-5005	Positioning Tube	1
	P15-3014	9-1811	Tip Long, .093, 85A – Ext.	10	NS	P30-2009	8-4204	End Cap	1
3.	P15-3017	9-2240	Gas Distributor Insulating Sleeve	1	NS	P15-2006	9-1810	Gage/Wrench	1
9.	P15-3024	9-1747	Electrode	1					
5.	P15-3019	8-3059	Gas Diffuser	1					
4.	P15-3018	8-3057	Gasket – Shield Cup	5					

NS – Not shown in the picture.



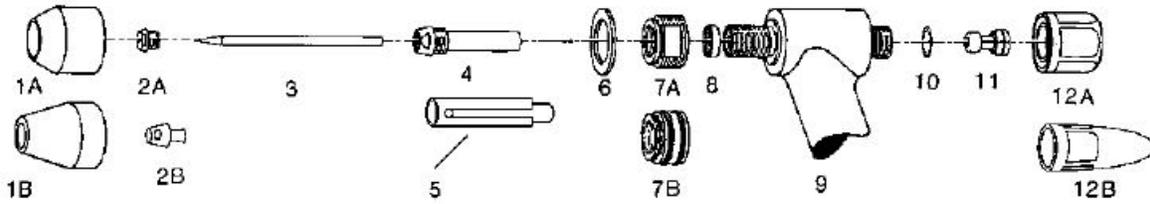
P15 Common Lead Set Components

Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1.	P15-3027	9-5914	Handle (Use with item 2)	1	6.	P30-2008	7-2827	Pinion Assembly	1
2.	P15-3026	9-1778	Sleeve (Use with item 1)	1	7.	P30-2009	8-4204	Bushing	1
3.	P30-2005	8-4018	Nut	1	5.	P30-2010	8-5005	Mounting Tube	1
4.	P30-2006	9-1901	Adapter	1	NS	P15-2006	9-1810	Wrench/ Gage	1

P15 Torch Lead Sets

Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
NS	P15-2004	4-2615	Leads 12 1/2'	1	NS	P15-2005	4-2624	Leads 25'	1

PWH/M P22 Complete Assembly Replacements



P22 Torch Consumable

Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1B	N/A	8-4062	Shield Cup	5		P22-2002	8-4015	Torch Head Assembly 90°	1
1A	P22-3000	8-4064	Shield Cup with Lens	5		P22-2004	8-4054	Torch Head Assembly 180° inline	1
2A	P22-3003	9-1847	Tip, (.062), 100 A - Std.	10	11	P22-3018	9-1876	Collet	1
	P22-3004	9-1848	Tip, (.093), 125 A - Std.	10	12B	P22-3020	9-1877	Electrode Cap Extended	1
	P22-3005	9-1849	Tip, (.125), 250 A - Std.	10	7B	P22-3001	8-4088	Shield Gas Diffuser Slip-On	1
2B	P22-3006	9-1890	Tip, (.062), 100 A - Ext.	10	NS	P30-2005	8-4018	Nut	1
	P22-3007	9-1891	Tip, (.093), 125 A - Ext.	10	NS	P30-2006	9-1901	Adaptor	1
	P22-3008	9-1892	Tip, (.125), 250 A - Ext.	5	NS	P30-2010	8-5005	Positioning Tube	1
3	P30-3008	9-1827	Electrode (.187) - Std.	5	10	P22-3017	8-0530	O-Ring	10
	P22-3010	9-1834	Electrode (.187) - Ext.	5	12A	N/A	8-4258	Electrode Cap std.	1
4	P22-3011	8-4011	Liner (without Gas Distributor)	1	NS	P22-3028	8-0554	O-Ring, for P22-3001 Shield Gas Diffuser.	1
5	P22-3012	9-2204	Gas Distributor	1					
8	P22-2005	8-4024	Collar	1					
7A	P22-3014	8-4040	Shield Gas Diffuser - Threaded	1					
6	P22-3013	8-4069	Gasket - Shield Cup	5					
9	P22-2001	8-4014	Torch Head Assembly 70°	1					
	P22-2003	8-4016	Torch Head Assembly 180° offset	1					

NS – Not shown in the picture. NA – Not available.

P22 Common Lead Set Components

Hand Torch

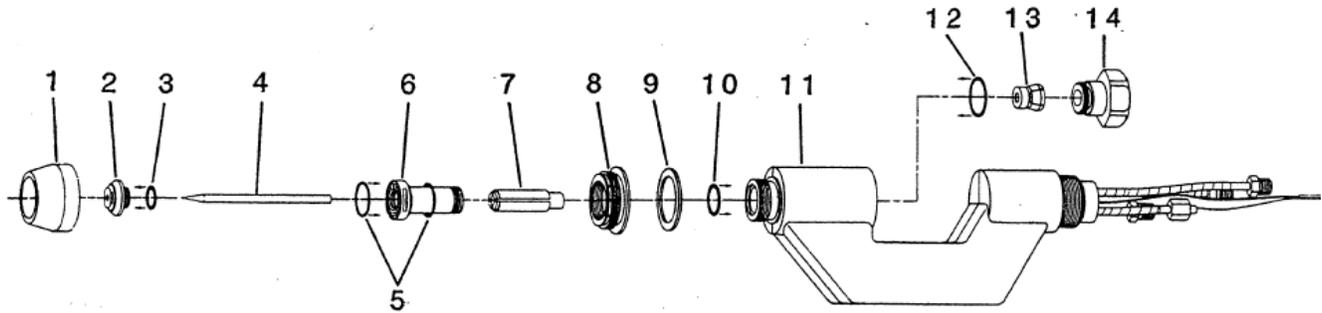


Machine Torch



Item	Part No.	Ref. No.	Description	Std. Pkg.	Item	Part No.	Ref. No.	Description	Std. Pkg.
1.	P22-2013	9-5914	Handle	1	5.	P30-2008	7-2827	Pinion Assembly	1
2.	P22-2005	8-4018	Nut	1	6.	P30-2009	8-4204	Bushing	1
3.	P30-2006	9-1901	Adaptor	1	NS	P22-2006	4-2525	Leads 12.5'	1
4.	P30-2010	8-5005	Mounting Tube	1	NS	P22-2007	4-2544	Leads, 25'	1

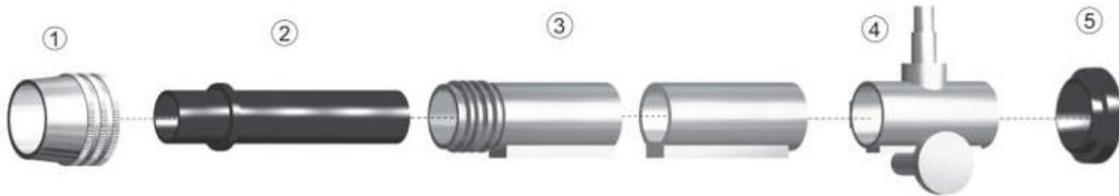
PWM P30 Complete Assembly Replacements



P30 Consumables

Item	Part No.	Item No.	Description	Std. Pkg.
1	P30-3001	8-4373	Shield Cup	1
2	P30-3005	8-4370	Tip, 0.093, 200A	5
	P30-3006	8-4371	Tip, 113, 250A	5
	P30-3007	8-4372	Tip, 125, 300A	5
3	P30-3016	9-2863	O-Ring	10
4	P30-3008	9-1827	Electrode	5
5	P30-3017	9-2956	O-Ring	10
6	P30-3009	8-6509	Liner, Includes O-Rings	1
7	P30-3010	8-6651	Gas Distributor	1
8	P30-3012	8-6652	Shield Cup Diffuser	1
9	P30-3011	8-6512	Gasket	5
10	P30-3018	8-0531	O-Ring	10
11	P30-2001	8-6649	Torch Body	1
12	P30-3013	8-0534	O-Ring	10
13	P30-3014	8-6650	Collet	1
14	P30-3015	8-6654	Electrode Cap	1

P30 Lead Set Components



Item	Part No.	Ref. No.	Description	Std. Pkg.
1	P30-2005	8-4018	Nut	1
2	P30-2006	9-1901	Adapter	1
3	P30-2010	8-5005	Mounting Tube	1
4	P30-2008	7-2827	Pinion Assembly	1
5	P30-2009	8-4204	Bushing	1
NS	P30-2002	4-2525	Torch Leads 12.5ft.	1
NS	P30-2003	4-2544	Torch Leads 25ft.	1
NS	P30-2011	8-6517	Wrench	1

ORDERING INFORMATION

When ordering replacement parts, order by catalog number and complete description of the part or assembly, as given in the description column of the Assembly Parts List. Address all inquiries to your authorized Sanrex distributor.

RETURNS

In the event that a Sanrex product must be returned for service, contact your Sanrex distributor. Material returned to Sanrex without proper authorization will not be accepted.

SanRex

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