

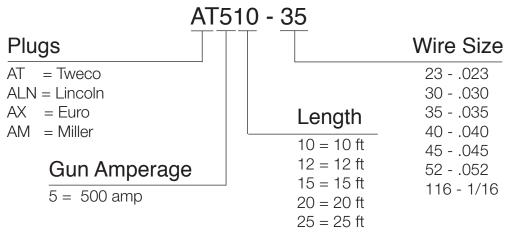
ALL GUNS ARE MADE BY ATTC TO OUR
HIGHEST QUALITY STANDARDS AND ARE GUARANTEED
AGAINST ALL MATERIAL OR MANUFACTURING DEFECTS.

T-500 NIGGIN Compatible with Tweco® 500 AMP

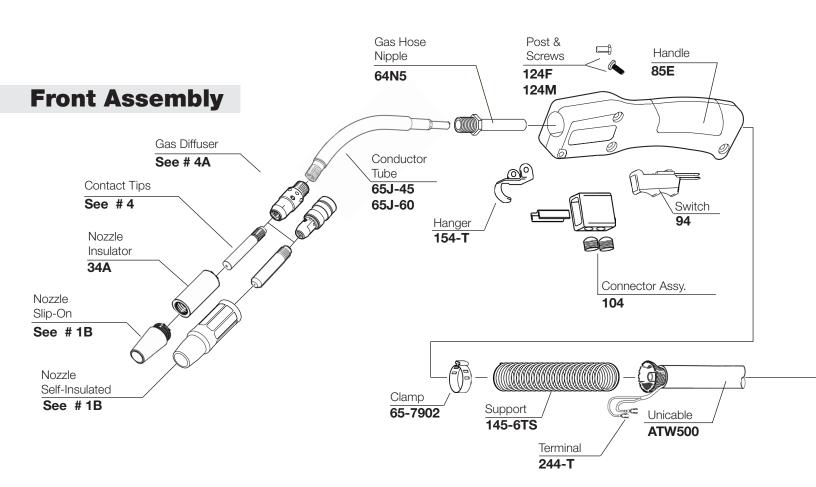
RATING: 500A C02 350A MIXED GAS @ 100% DUTY CYCLE 0.035mm TO 3/32" WIRE

Technical Guide

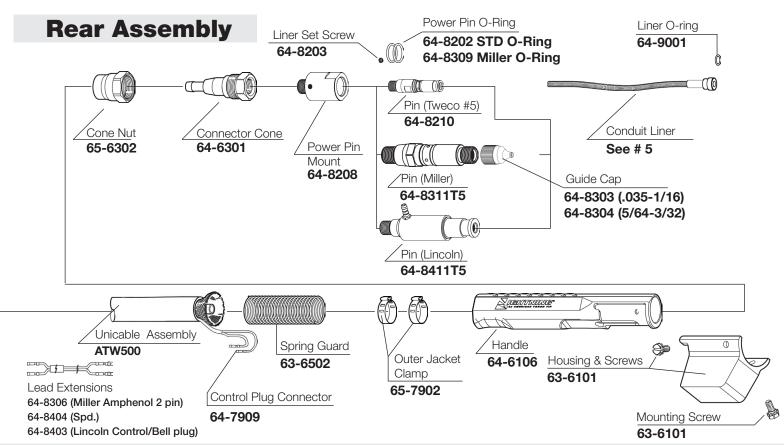
MIG Gun Part Numbering System 500 AMP



Special Part Numbering System



No.	Part No.	Description	I.D.	No.	Part No.	Description	ı I.D.	
1A	25CT-50 25CT-62 25CT-75	Nozzle Coarse Thread Nozzle Coarse Thread Nozzle Coarse Thread	1/2" (12.7mm) 5/8" (15.9mm) 3/4" (19.1mm)	3В	16S-35 16S-40 16S-45	Contact Tip Contact Tip Contact Tip	.035 (1.2mm) .040 (1.0mm) .045 (0.9mm)	.044 .048 .054
1B	HD24L-50 Nozzle Std. Recess HD24L-62 Nozzle Std. HD24L-50F Nozzle Flush HD24L-62F Nozzle Flush HD24L-75F Nozzle Flush HD24-50 Nozzle H.D. Recess HD24-62 Nozzle H.D. Recess HD24-75 Nozzle H.D. Recess HD24-50F Nozzle H.D. Flush HD24-62F Nozzle H.D. Flush HD24-75F Nozzle H.D. Flush HD24-75F Nozzle H.D. Flush	1/2" (12.7mm) 5/8" (15.9mm) 3/4" (19.1mm) 1/2" 5/8" 3/4"		16S-52 16S-116 16S-564 16AS-364 16AS-116	Contact Tip Contact Tip Contact Tip AL Contact Tip AL Contact Tip AL	.052 (1.3mm) 1/16" (1.6mm) . 3/64" (2.0mm) . 3/64" (1.2mm)	.064 .073 .093 .059 .082	
		Nozzle H.D. Recess	1/8" 5/8"	No.	Part No	Description	Liner	
		5/8" 3/4" 1/2" 5/8" 3/4"	4A	55 55H 55SW	Gas Diffuser Gas Diffuser Gas Diffuser	Use with 45N-116, 45- Use with 45H-332, 45H Use with 45-3545, 451	H-764	
No.	Part No.	Description		4B	HD54-16	Gas Diffuser		
2	35CT	Nozzle Insulator Coarse Thread		No.	Part No	Description	Description	
No.	Part No.	Description	I.D.	5	45-116-15 45-116-25	Liner Assy. 15' Liner Assy. 25'		.188 .188
3A	15AH-364 15AH-116 15H-35 15H-45 15H-52 15H-116 15H-564 15H-332 15H-764 15H-18		(1.2mm) .055 (1.3mm) .063 (1.6mm) .073 (1.6mm) .093 (2.0mm) .093 (2.4mm) .110 (2.8mm) .120		45-3545-15 45-3545-25 45-564-15 45-564-25 45H-332-15 45H-764-15 45N-116-15 45N-3545-15 65-4725 65-4715	Liner Assy. 25' Liner Assy. 25' Liner Assy. 15' Liner Assy. 25' Liner Assy. 15' Liner Assy. 15' Liner Assy. 15' Liner Assy. 15' Liner Assy. 25' Liner Assy. 15' Liner Assy. 15' Liner Assy. 15'	.035045 .066 .035045 .066 5/64" .098 5/64" .098 3/32" .124 7/64" .130 1/16" .100 .035045 .066	.188 .148 .238 .238 .268 .268 .185 .188
F	Rear A	ssembly	Liner Set Screw	64	Power Pin O-Ring 64-8202 STD O-Ring 64-9001 64-8309 Miller O-Ring			
	Pin (Tweco #5) 64-8210							



GENERAL SAFETY

- 1. Disconnect all power before servicing or changing welding gun components. Failure to disconnect power can lead to dangerous electrical shock which can kill.
- 2. Smoke, fumes and gases can be dangerous to your health. Keep smoke, fumes and gases from the breathing area. Fumes from welding are of various types and strengths, depending on the kind of base metal being welded.
- 3. Arc welding produces dangerous light radiation. Adequate eye protection must be worn.
- 4. All exposed skin must be covered with flame resistant, protective clothing. Do not wear clothing made from flammable synthetic fibers.
- 5. Protective screens or barriers should be used to protect others from spatter, flash and glare while welding.

TROUBLESHOOTING

Poor Wire Feed:

Liner clogged or kinked. Incorrect liner size or contact tip size. Liner cut to short and not seating properly in gas diffuser.

Gun Overheating:

Loose connection at the wire feeder. Gun being run beyond its amperage range. Insufficient gauge power cable or ground cable.

Weld Porosity:

Spatter built up in nozzle blocking gas. Leaks in gas hose or improper connection.

Short Tip Life:

Drive rolls too tight resulting in scoring of welding wire. Welding wire dirty, rusty or too much cast. Wrong tip size. Torch over rated duty cycle.

Warranty

180-day limited Warranty on manufacturing and material defects. Warranty terms DO NOT apply to consumable products.

AIGHTNING Semi-Auto MIG Gun



JIGHTNING Robotic MIG Gun



LIGHTNING Automatic MIG Gun

