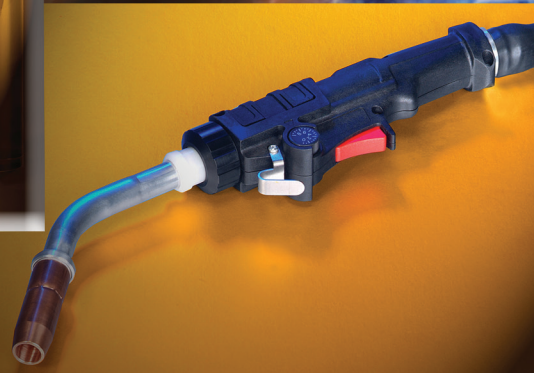
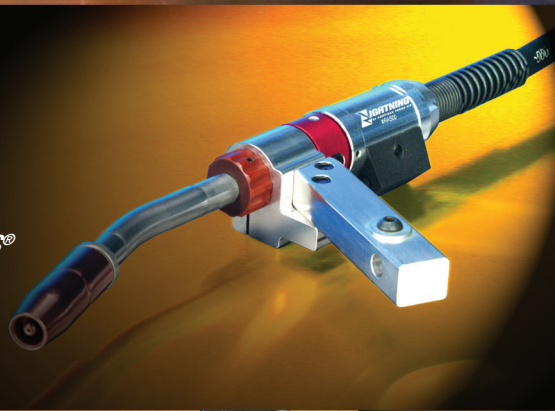


AMERICAN TORCH TIP **ATTC**[®]

MIG

MIG DIVISION OF AMERICAN TORCH TIP

- BERNARD[®]*
- BINZEL[®]*
- C.K. SYSTEMATICS[®]*
- DAIHEN[®]*
- D/P[®]*
- ESAB[®]*
- FRONIUS[®]*
- HOBART[®]*
- IGM[®]*
- LINCOLN[®]*
- MILLER[®]*
- MK-PRODUCTS[®]*
- OTC[®]*
- PANASONIC[®]*
- TOKIN[®]*
- TREGASKISS[®]*
- TWECO[®]*



LIGHTNING[®]
DIVISION OF AMERICAN TORCH TIP





1. NOZZLE

I.D.

A	750-04-013	Nozzle	.625
B	750-04-015S	Nozzle Self Ins.	.606

2. INSULATORS

A	750-01-738	Nozzle Insulator 300/400A	.650
---	------------	---------------------------	------

3. CONTACT TIPS

A	750-23-511	Contact Tip	.023
	750-35-511	Contact Tip	.035
	750-40-511	Contact Tip	.040
	750-45-511	Contact Tip	.045
	750-52-511	Contact Tip	.052
B	750-35-014	Contact Tip 500A	.035
	750-45-014	Contact Tip 500A	.045
	750-45-014-LL	Contact Tip CuCr	.050
	750-52-014	Contact Tip 500A	.052
	750-52-014-LL	Contact Tip CuCR	.059
	750-10-014	Contact Tip	.048
	750-035-014LL	Contact Tip CuCR	.040

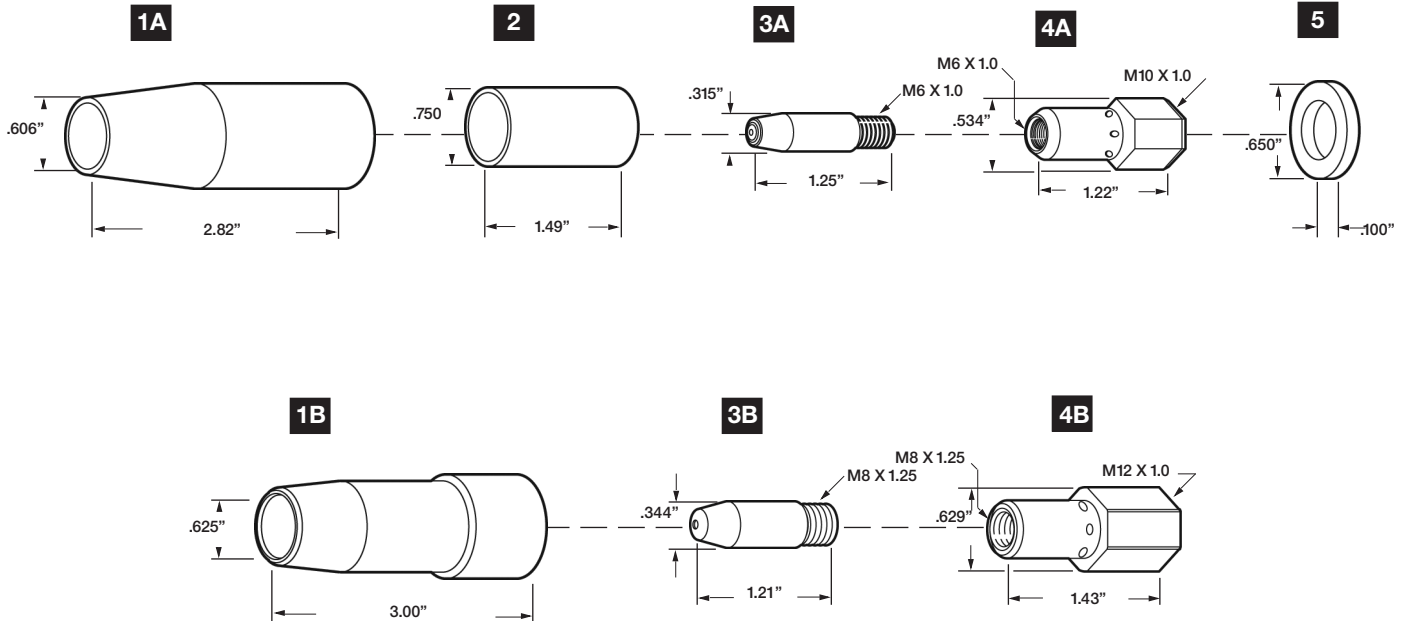
4. DIFFUSER

A	750-02-007	Gas Diffuser
B	750-04-033	Gas Diffuser

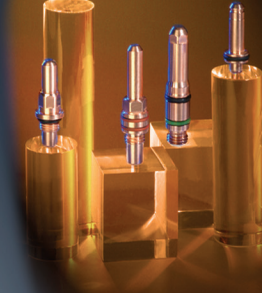
5. INSULATING WASHER

750-01-005	Insulating Washer 300A
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MIG



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124

BERNARD®

EZ FEED G / EZ FEED / EZ FEED II / EZ FEED Q

MIG

1. NOZZLE

			I.D.
A	251	Nozzle Brass	1/2" (12.7mm)
	241	Nozzle Copper	5/8" (15.9mm)
B	4391	Nozzle Brass	5/8" (15.9mm)
	4392	Nozzle Tapered Brass	1/2" (12.7mm)
C	4393	Nozzle Copper	5/8" (15.9mm)
	4295	Nozzle Tapered Brass	3/8" (09.5mm)
D	4491	Nozzle Brss	3/4" (19.0mm)
	4492	Nozzle tapered Brass	9/16" (14.3mm)
E	431	Nozzle Brass	1/2" (12.7mm)
	401	Nozzle Brass	3/4" (19.0mm)
	602	Nozzle Brass	3/4" (19.0mm)
	601	Nozzle Copper	3/4" (19.0mm)
F	1501	Nozzle Copper H.D.	3/4" (19.0mm)
	4591	Nozzle Copper	3/4" (19.0mm)
G	4592	Nozzle Copper	17/32" (13.5mm)
	242	Nozzle Tapered Brass	11/32" (8.7mm)
H	4395A	Nozzle Tapered Brass	11/32" (8.7mm)

2. INSULATORS

A	256	Insulator
B	4061	Insulator

3. CONTACT TIPS

			I.D.	
A	1597	Contact Tip .023	(0.6mm) .031	
	1588	Contact Tip .030	(0.8mm) .037	
	1589	Contact Tip .035	(0.9mm) .043	
	1596	Contact Tip .040	(1.0mm) .048	
	1590	Contact Tip .045	(1.2mm) .055	
	1598	Contact Tip .052	(1.4mm) .064	
	1591	Contact Tip 1/16"	(1.6mm) .076	
	1592	Contact Tip 5/64"	(2.0mm) .093	
	1593	Contact Tip 3/32"	(2.4mm) .110	
	1594	Contact Tip 7/64"	(2.8mm) .125	
	1595	Contact Tip 1/8"	(3.2mm) .144	
	B	4284	Contact Tip .023	(0.6mm) .031
		4285	Contact Tip .030	(0.8mm) .037
		4281	Contact Tip .035	(0.9mm) .043
		4282	Contact Tip .045	(1.2mm) .055
4283		Contact Tip .052	(1.4mm) .064	
4280		Contact Tip 1/16"	(1.6mm) .076	
C		7497	Contact Tip .023	(0.6mm) .031
		7488	Contact Tip .030	(0.8mm) .037
		7489	Contact Tip .035	(0.9mm) .043
		7496	Contact Tip .040	(1.0mm) .048
	7490	Contact Tip .045	(1.2mm) .055	
	7498	Contact Tip .052	(1.4mm) .064	
	7491	Contact Tip 1/16"	(1.6mm) .076	
	7492	Contact Tip 5/64"	(2.0mm) .093	
	7493	Contact Tip 3/32"	(2.4mm) .110	
	7479	Contact Tip 7/64"	(2.8mm) .125	

3. CONTACT TIPS (CONT.)

			I.D.
	7495	Contact Tip 1/8"	(3.2mm) .144
D	4381A	Contact Tip .035	(0.9mm) .043
	4382A	Contact Tip .045	(1.2mm) .055
E	243	Contact Tip .035	(0.9mm) .043
	244	Contact Tip .045	(1.2mm) .055

4. GAS DIFFUSERS

A	4235	GasDiffuser 200A
B	4335	GasDiffuser 200/300A
C	4435	GasDiffuser 400/500A
D	4635	GasDiffuser 600A
E	4635-2	Gas Diffuser, Tip Holder 600A
F	4635-1	Gas Diffuser, Tip 600A

5. CAPS

A	4323R	Cap 200/250A
B	4423R	Cap 400/500A

LINERS

			I.D.	O.D.
A	43010	Liner 10' .023-.030	.036	.126
	43015	Liner 15' .023-.030	.036	.126
	43110	Liner 10' .023-.030	.036	.126
	43115	Liner 15'.035-.045	.069	.163
	43115X	Liner Tef. 15' 3/64"Al	.090	.155
	43125	Liner 25' .035-.045	.069	.063
	43215	Liner 15' 1/16"	.075	.175
	44110	Liner 10' .035-.045	.068	.178
	44115	Liner 15' .035-.045	.068	.178
	44125	Liner 25' .035-.045	.068	.178
	44210	Liner 10' 1/16"	.077	.189
	44215	Liner 15' 1/16"	.077	.189
	44215X	Liner Tef. 15' 1/16" Al.	.100	.185
	44225	Liner 25' 1/16"	.077	.189
	44310	Liner 10' 5/64"	.125	.220
44315	Liner 15' 5/64"	.125	.220	
45410	Liner 10' 3/32"	.125	.220	
45415	Liner 15' 3/32"	.125	.220	
45610	Liner 10' 7/64"	.138	.252	
45615	Liner 15' 7/64"	.138	.252	
B	43115T	Liner 15' .035-.045	.071	.160
	44115T	Liner 15' .035-.045	.068	.178
	44215T	Liner 15' 1/16"	.077	.189
	44225T	Liner 25' 1/16"	.077	.189

**Liners are not shown.

AVAILABLE PARTS NOT SHOWN

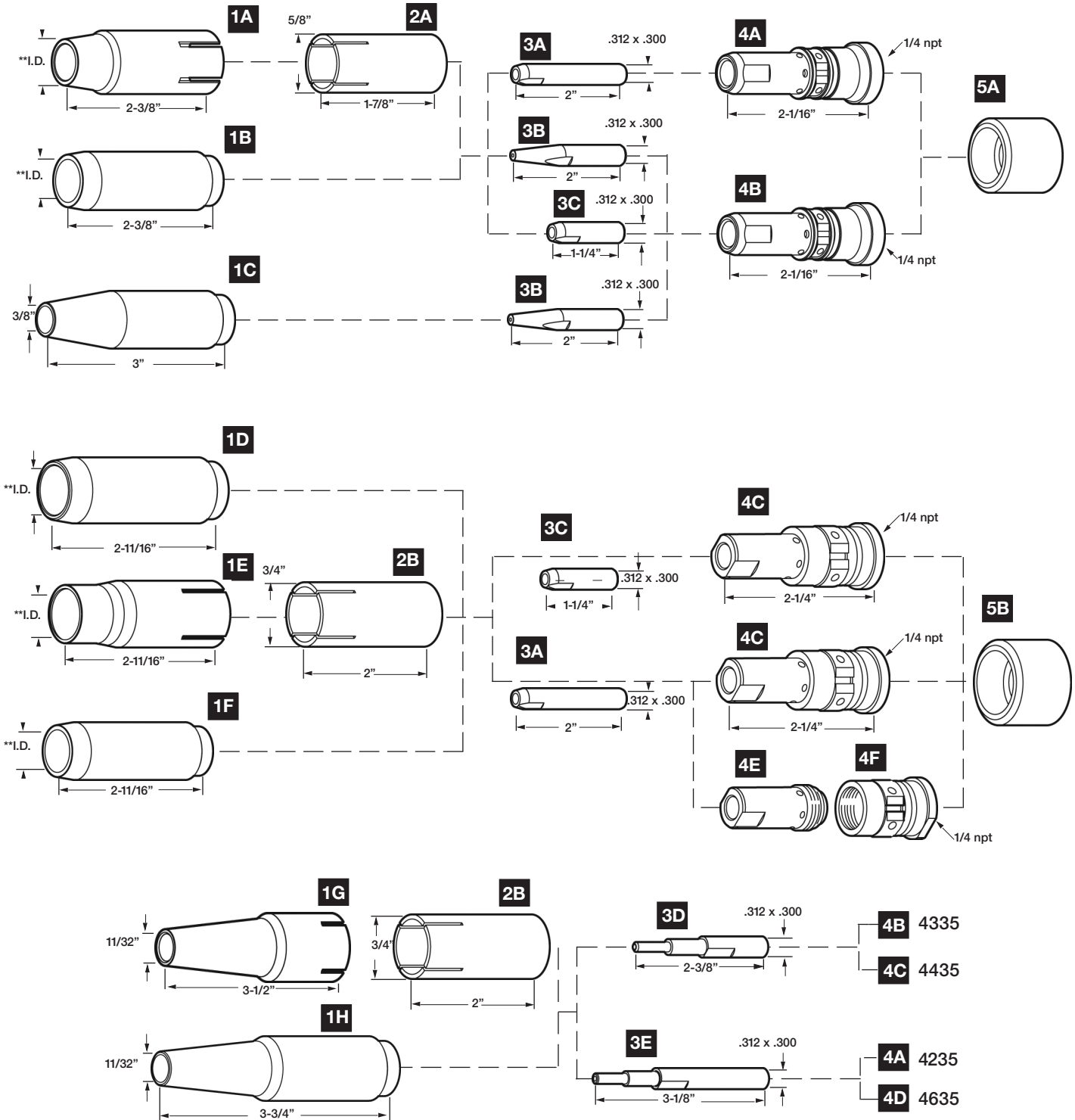
451	Diffuser
4790	Body Tube Assembly
4061ST	Insulator

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EZ FEED G / EZ FEED / EZ FEED II / EZ FEED Q



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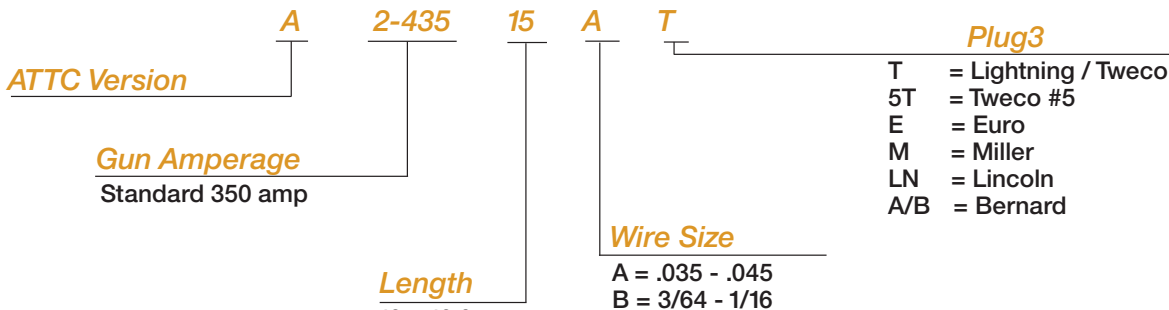
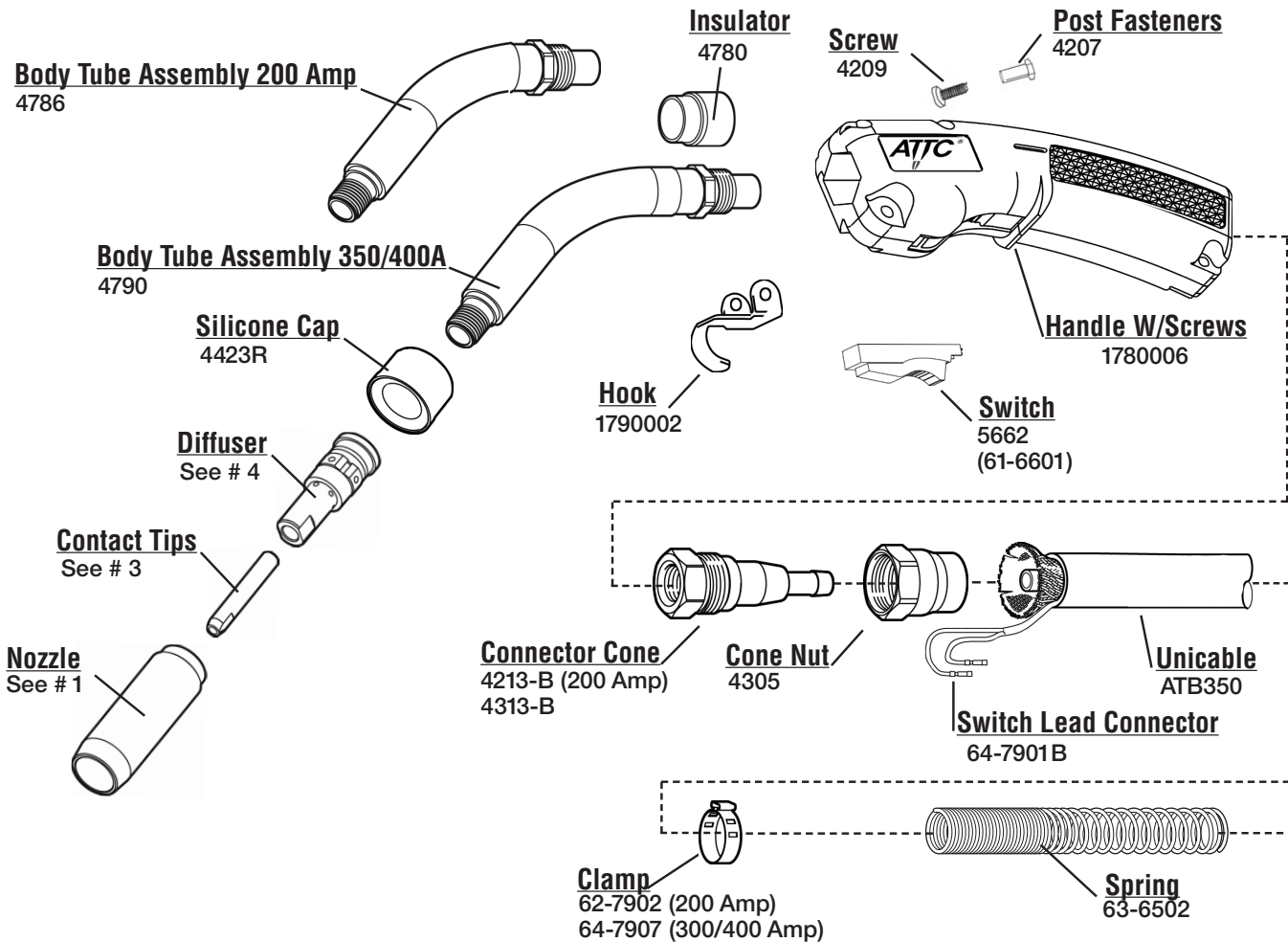


126

BERNARD®

B-200/350 COMPATIBLE WITH BERNARD EZ FEED 11 200/350 AMP

MIG



RATING
350 A CI2 250A MIXED GAS
@ 100% DUTY CYCLE
.030" 0.8MM TO .062" 1.6MM WIRE

MIG Gun are equipped as follows:
A = .045 (7490) Tip + 4491 (Nozzle)
B = 1/16 (7491) Tip + 4491 (Nozzle)

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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS

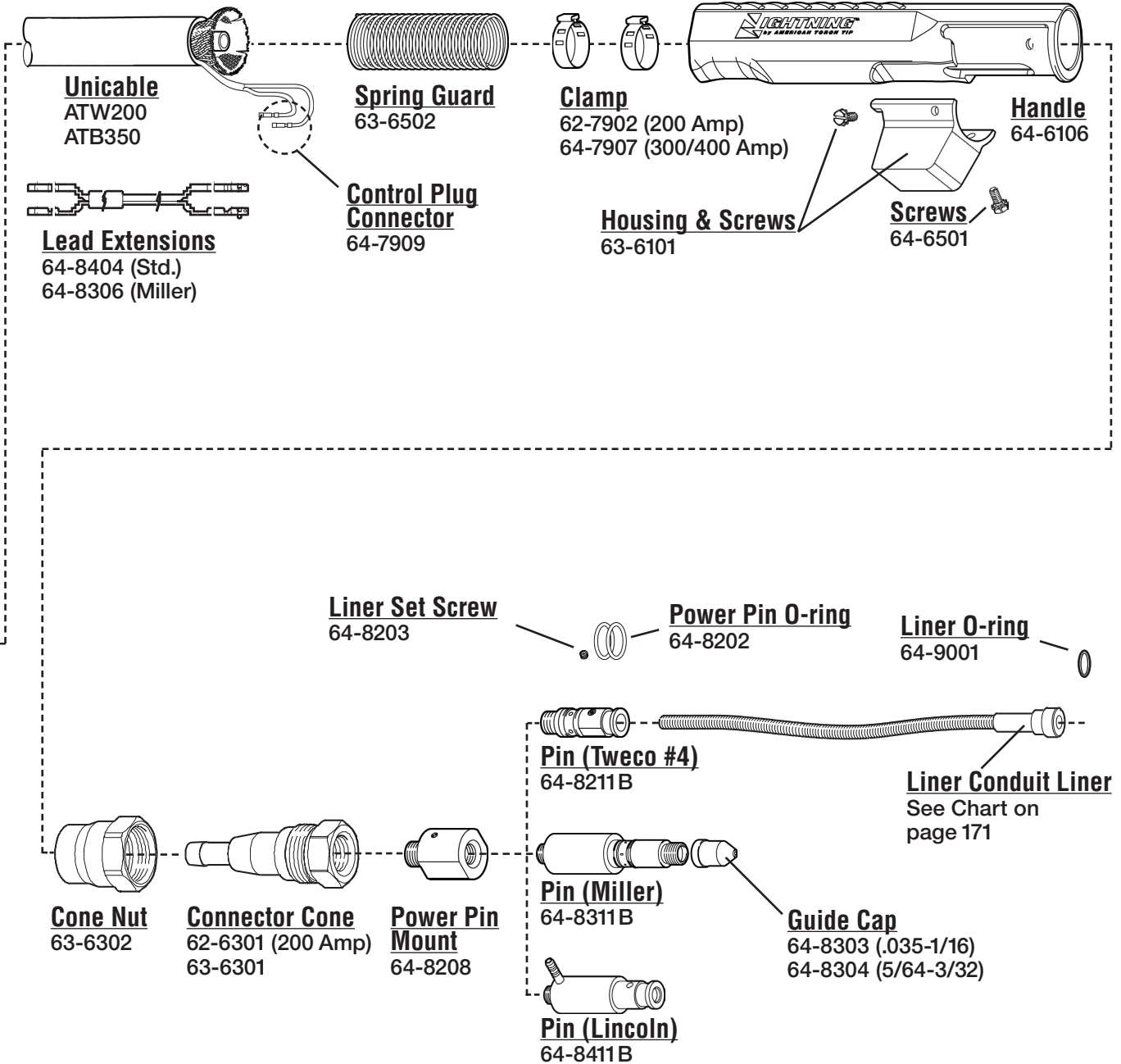


127

BERNARD®

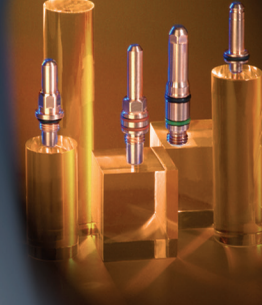
B-200/300 COMPATIBLE WITH BERNARD EZ FEED 11 200/300 AMP

MIG



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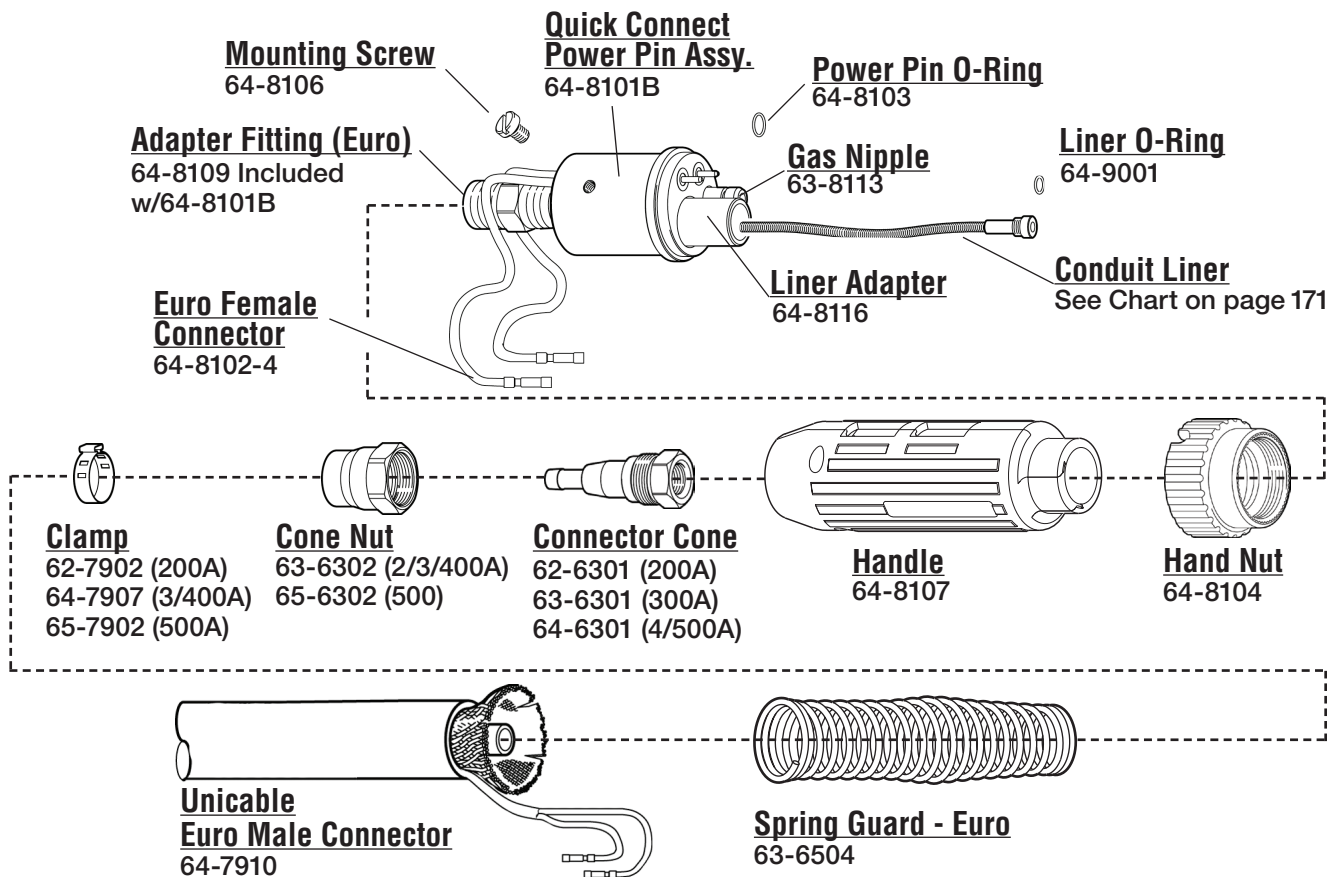


128

BERNARD®

B-350 COMPATIBLE WITH BERNARD EZ FEED 11 350 AMP

MIG



POWER PINS ASSEMBLY (Rear)

Bernard Power Pin

64-8501



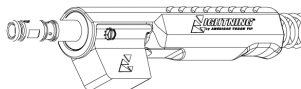
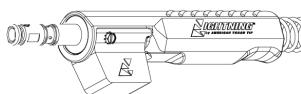
Euro Power Pin

64-8100B



Lincoln Power Pin

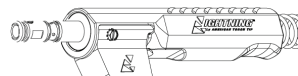
64-8401B



Std. Power Pin For Lightning, Tweco & Tregaskiss
64-8201B

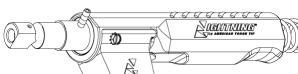
Thermal Arc. Power Pin

64-8901



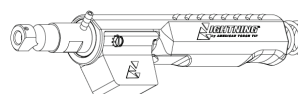
Hitachi Power Pin

64-8422



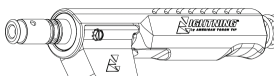
Panasonic Power Pin

64-8702



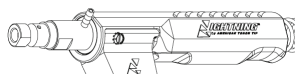
Tweco #5 Power Pin

64-8212



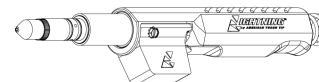
Daiden Power Pin

64-8602



Miller Power Pin

64-8301B (.035 - 1/16)
64-8302B (5/64 - 3/32)



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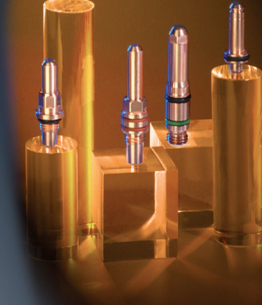
129



MIG

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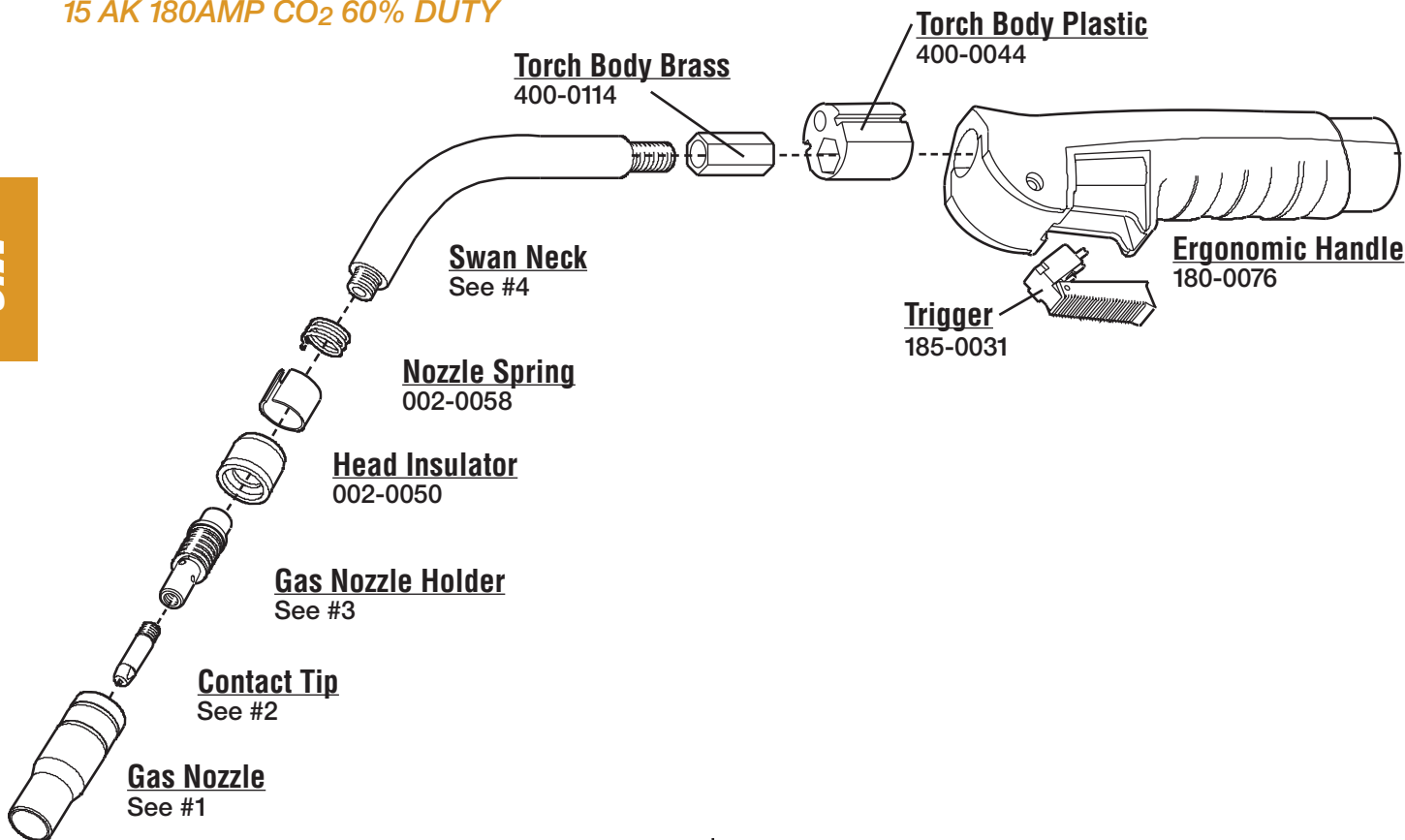


130

BINZEL®

15 AK 180AMP CO₂ 60% DUTY

MIG



1. NOZZLES

I.D.

A	145-0075	Nozzle, Conical	1/2"	(12.7mm)
	145-0123	Nozzle, Conical, Small	3/8"	(9.5mm)
B	145-0041	Nozzle, Cylindrical	5/8"	(15.9mm)
C	145-0143	Nozzle, Tapered	33/64"	(13.1mm)
D	145-0168	Nozzle, Spot	5/8"	(15.9mm)

2. CONTACT TIPS

I.D.

140-0008	Contact Tip M6 Cu .023	(0.6mm)	.028
140-0059	Contact Tip M6 Cu .030	(0.8mm)	.037
140-0177	Contact Tip M6 Cu .035	(0.9mm)	.043
140-0253	Contact Tip M6 Cu .040	(1.0mm)	.048
140-0387	Contact Tip M6 Cu .045	(1.2mm)	.055
141-0002	Contact Tip M6 Cu .030	(.8mm)Al	.043
141-0005	Contact Tip M6 Cu .035	(.9mm)Al	.048
141-0007	Contact Tip M6 Cu .040	(1mm)Al	.055

3. NOZZLE HOLDER

002-0078 Nozzle Holder

4. CONDUCTOR TUBES

002-0009 Swanneck 50 Degree

5. LINERS

I.D. O.D.

124-0011	Liner 3M	.030-.035	.053	.156
124-0012	Liner 4M	.030-.035	.053	.156
124-0015	Liner 5M	.030-.035	.053	.156
124-0026	Liner 3M	.035-.045		
124-0031	Liner 4M	.035-.045		
124-9003	Liner 5M	.040-.045	.071	.156
124-9004	Liner 5M	.045-1/16"	.095	.156
126-0008	Liner 4M	.030-.040		
126-0026	Liner 4M	.035-.045		

*Liners are not shown.

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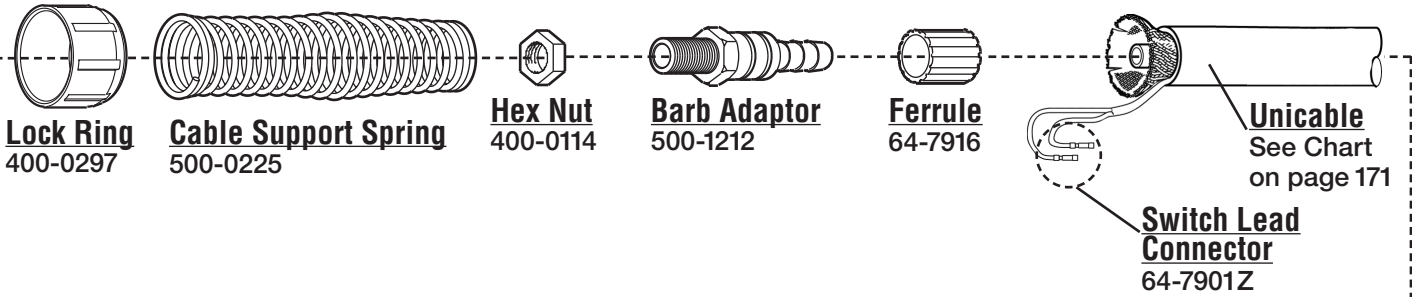
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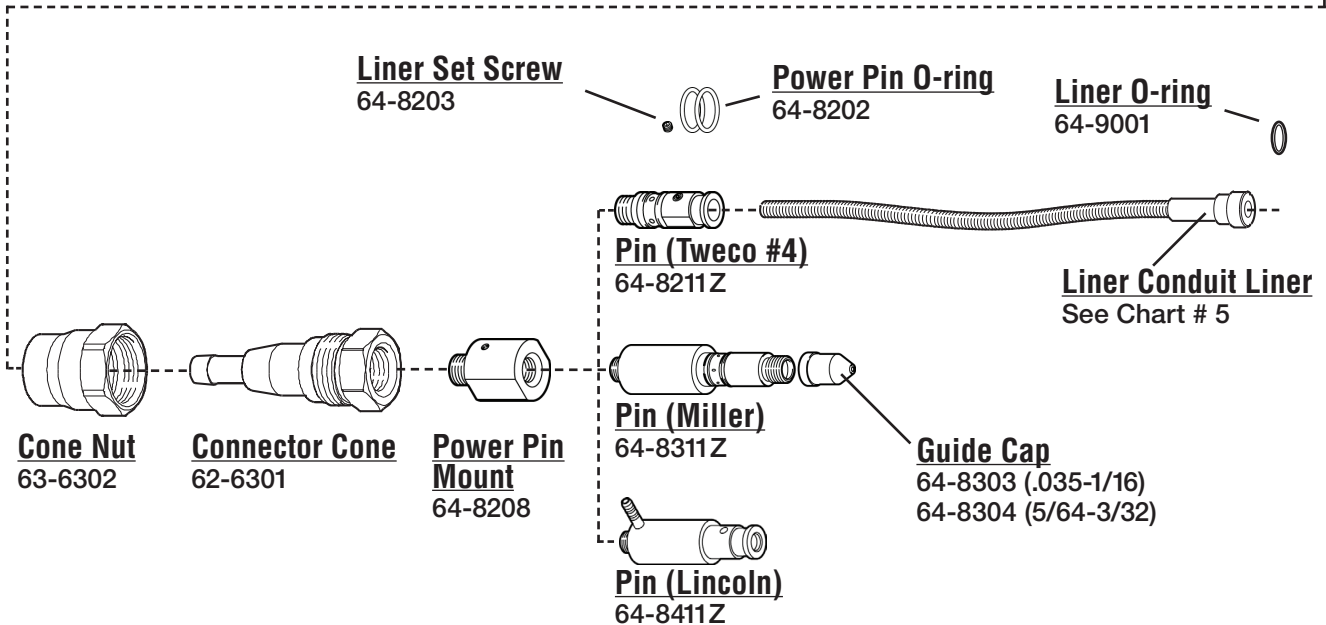
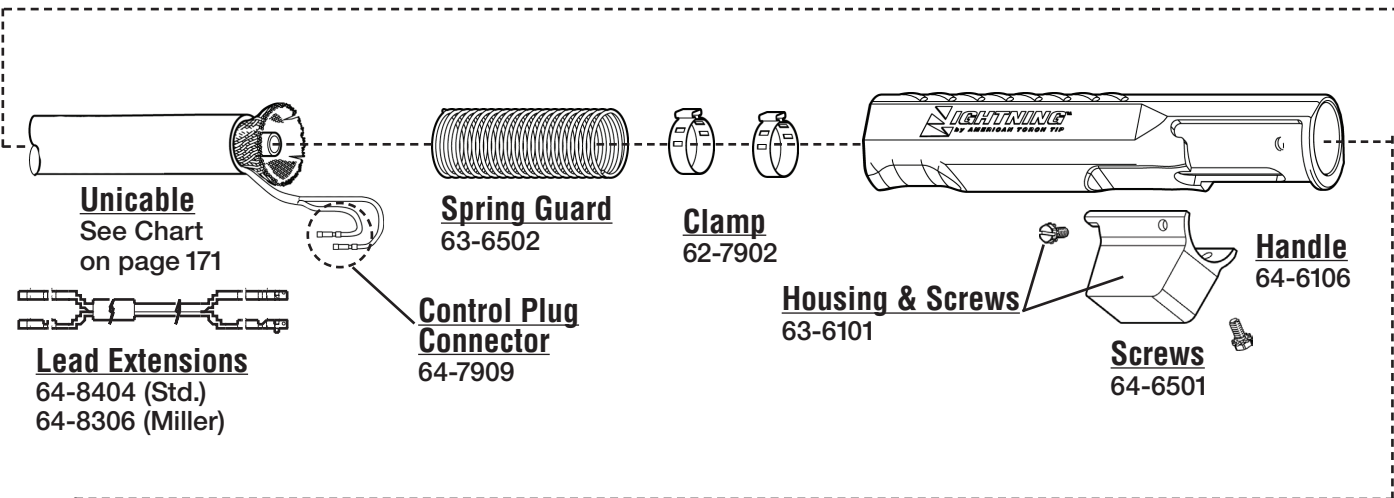
131

BINZEL®

15 AK 180AMP CO₂ 60% DUTY

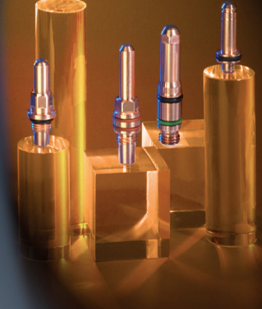


MIG



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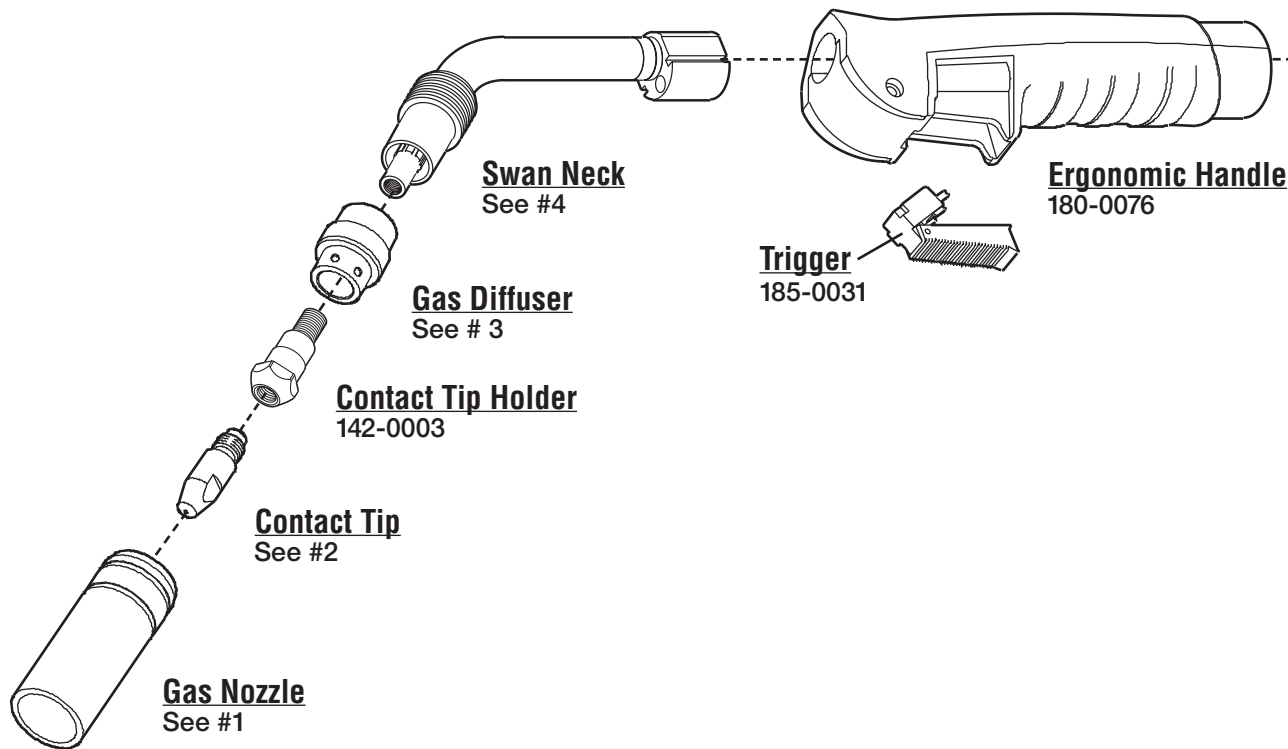


132

BINZEL®

24 KD 250AMP CO₂ 60% DUTY

MIG



1. GAS NOZZLES

I.D.

A	145-0047	Nozzle Cylindrical	21/32"	(17mm)
	145-0062	Nozzle Cylindrical HD	21/32"	(17mm)
B	145-0080	Nozzle Conical	1/2"	(12.5mm)
	145-0101	Nozzle Conical HD	1/2"	(12.5mm)
C	145-0128	Nozzle Tapered	21/32"	(17mm)

2. CONTACT TIPS

I.D.

140-0051	M6 E-Cu	.030	(0.8mm)	.037
140-0242	M6 E-Cu	.040	(1.0mm)	.048
140-0379	M6 E-Cu	.045	(1.2mm)	.055
140-0054	M6 CuCrZr	.030	(0.8mm)	.037
140-0245	M6 CuCrZr	.040	(1.0mm)	.048
140-0382	M6 CuCrZr	.045	(1.2mm)	.055
141-0001	M6 E-Cu	.030	(0.8mm)	.043 AL
141-0006	M6 E-Cu	.040	(1.0mm)	.055 AL
141-0010	M6 E-Cu	3/64"	(1.2mm)	.059 AL

3. GAS DIFFUSER

012-0017	Gas Diffuser Black
012-0183	Gas Diffuser White

4. CONDUCTOR TUBES

012-0001	Swan Neck 50 Degree
----------	---------------------

5. LINERS

I.D.

124-0011	Liner 3M	.030-.035	.053	.156
124-0015	Liner 5M	.030-.035	.053	.156
124-0026	Liner 3M	.040-.045	.071	.156
124-0031	Liner 4M	.040-.045	.071	.156
126-0008	Liner 4M	3/64"	.059	.156
126-0011	Liner 5M	3/64"	.059	.156
126-0021	Liner 3M	5/64"	.078	.156
126-0026	Liner 4M	5/64"	.078	.156
126-0028	Liner 5M	5/64"	.078	.156

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AMERICAN TORCH TIP ATTC

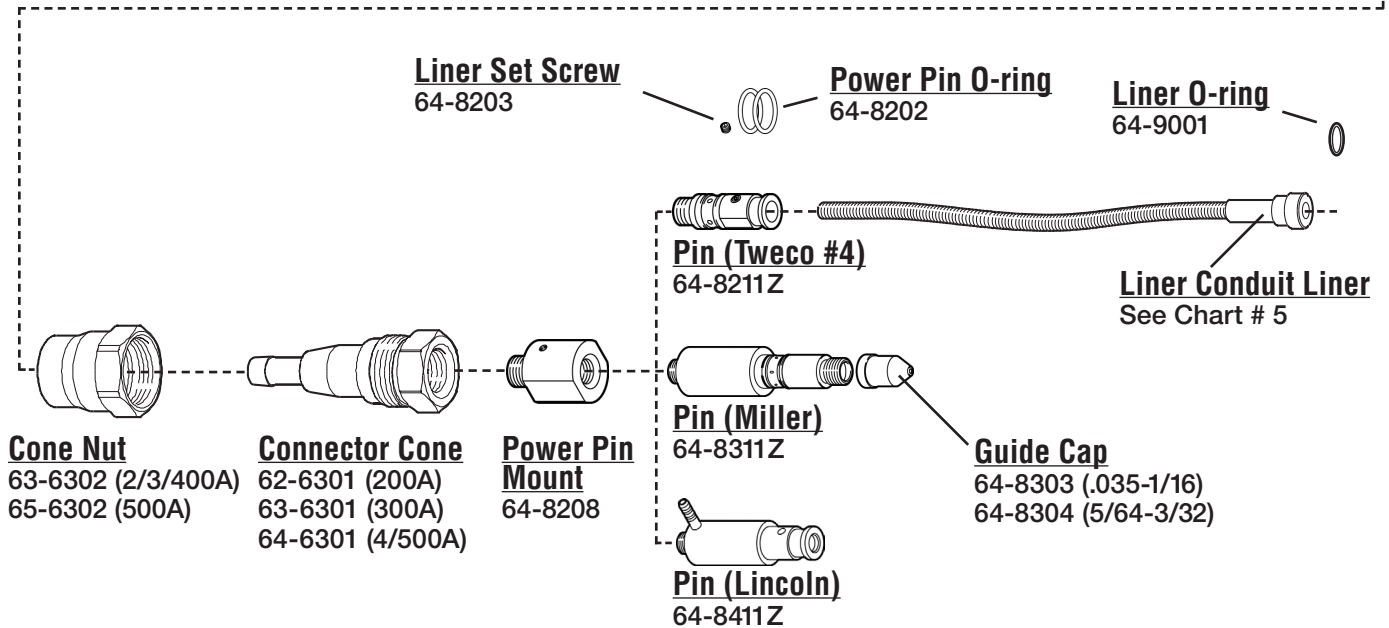
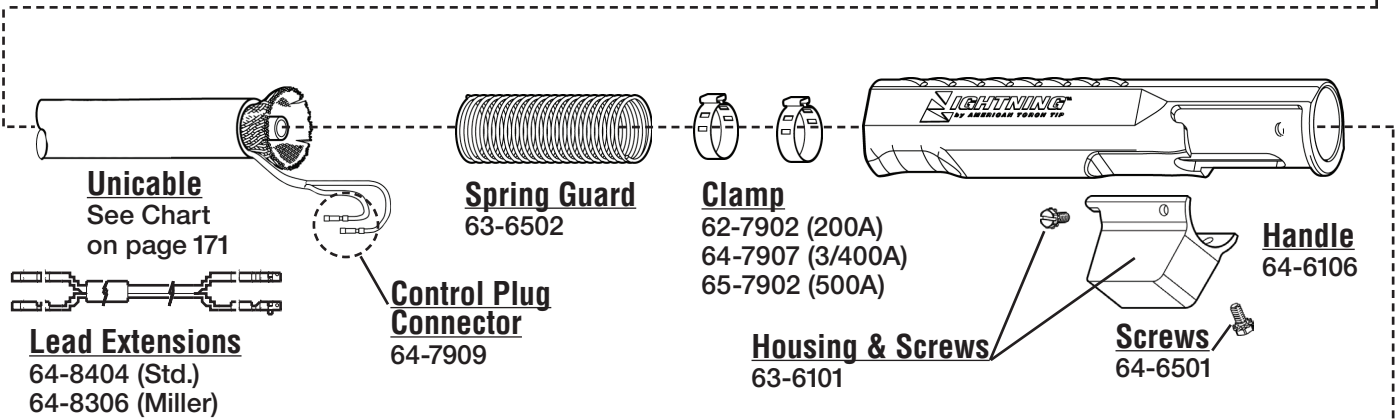
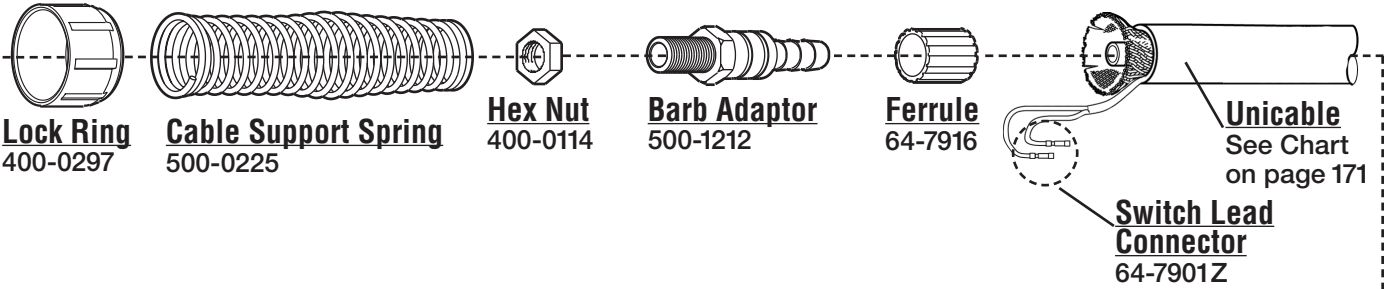
MIG
MIG DIVISION OF AMERICAN TORCH TIP

133

BINZEL®

24 KD 250AMP CO₂ 60% DUTY

MIG



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MIG
MIG DIVISION OF AMERICAN TORCH TIP

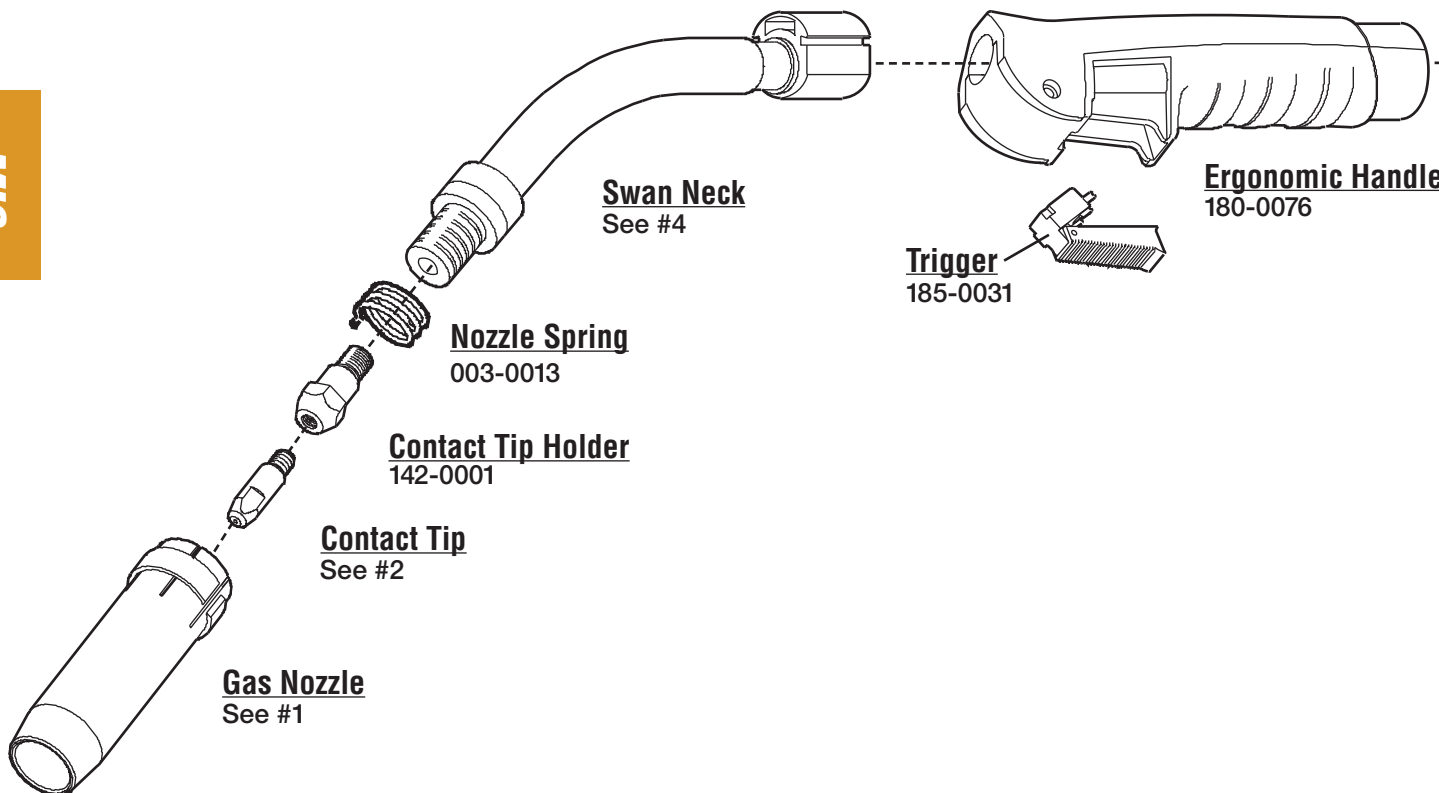


134

BINZEL®

25

MIG



1. NOZZLES

I.D.

A	145-0042	Nozzle, Cylindrical	23/32"	(18.3mm)
B	145-0076	Nozzle, Conical	19/32"	(15.1mm)
	145-0124	Nozzle, Conical, Small	29/64"	(11.5mm)
C	145-0144	Nozzle, Tapered	7/16"	(11.1mm)
D	145-0169	Nozzle, Spot	23/32"	(18.3mm)

2. CONTACT TIP

I.D.

140-0051	Contact Tip M6 Cu .030	(.08mm)	.037
140-0169	Contact Tip M6 Cu .035	(0.9mm)	.043
140-0242	Contact Tip M6 Cu .040	(1.0mm)	.048
140-0379	Contact Tip M6 Cu .045	(1.2mm)	.055
140-0555	Contact Tip M6 Cu 1/16"	(1.6mm)	.073
140-0054	Contact Tip M6 H.D. .030	(0.8mm)	.037
140-0172	Contact Tip M6 H.D. .035	(0.9mm)	.043
140-0245	Contact Tip M6 H.D. .040	(1.0mm)	.048
140-0382	Contact Tip M6 H.D. .045	(1.2mm)	.055
141-0004	Contact Tip M6 Cu .035	(0.9mm)Al	.048
141-0006	Contact Tip M6 Cu .040	(1.0mm)Al	.055
141-0010	Contact Tip M6 Cu 3/64"	(1.2mm)Al	.059

4. CONDUCTOR TUBES

004-0012	Swanneck 50°
----------	--------------

5. LINERS

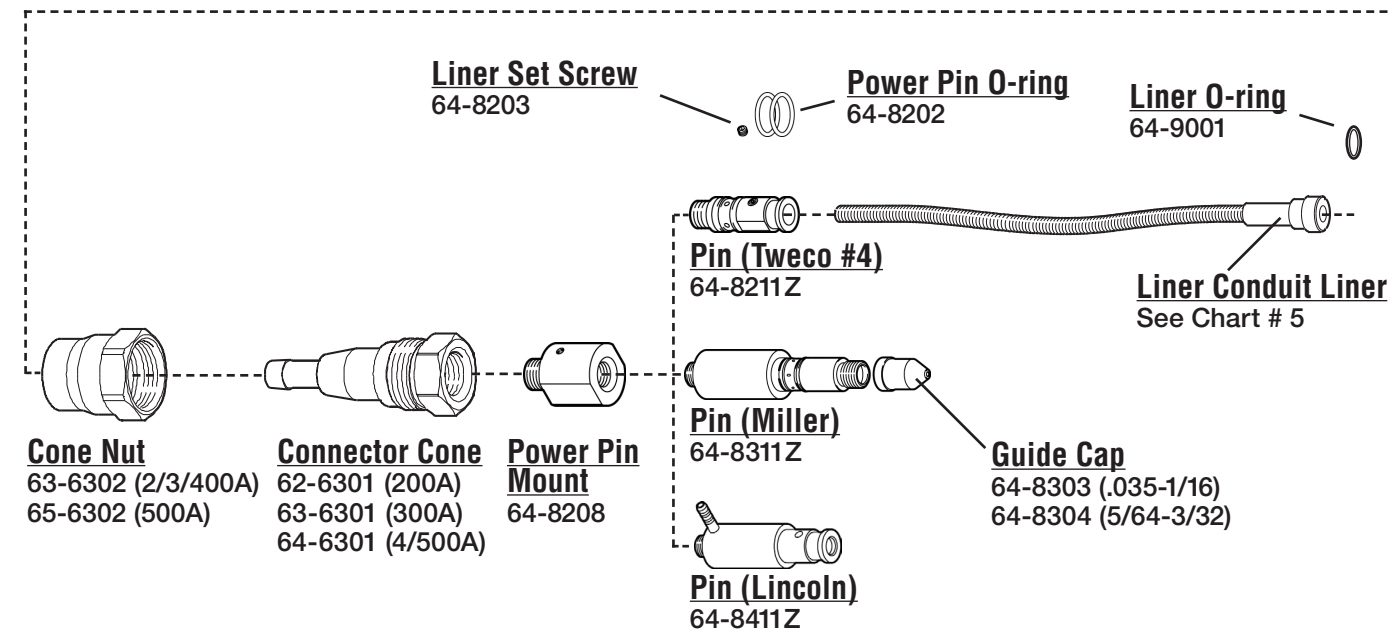
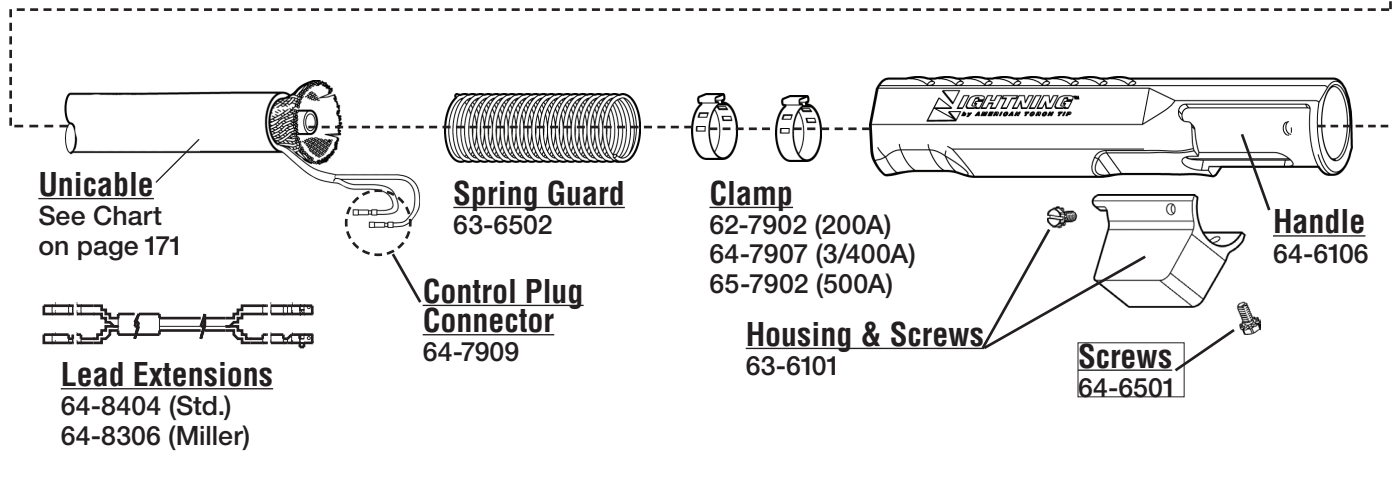
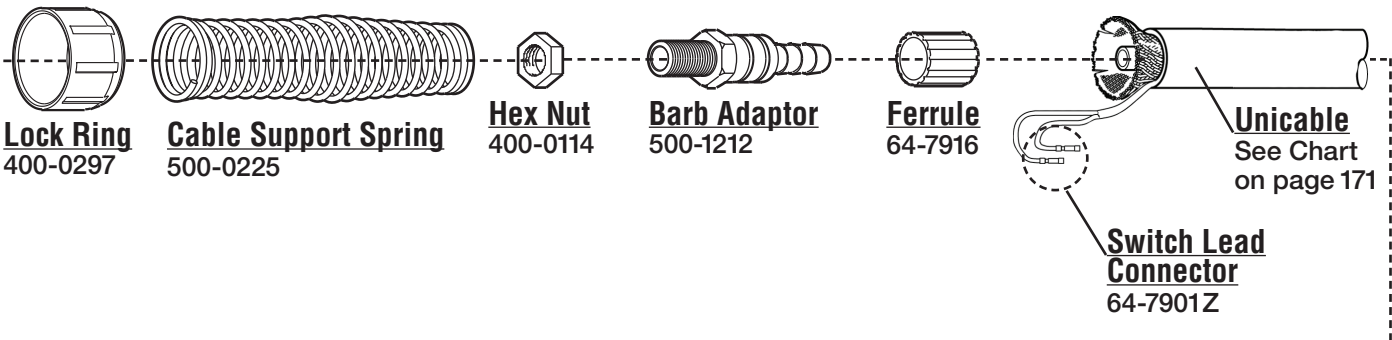
I.D. O.D.

124-0011	Liner 3M .030-.035	.053	.156
124-0015	Liner 5M .030-.035	.053	.156
124-0026	Liner 3M .040-.045	.071	.156
124-0031	Liner 4M .040-.045	.071	.156
124-9003	Liner 5M .040-.045	.071	.156
124-9004	Liner 5M .045-1/16"	.095	.156

*Liners are not shown.

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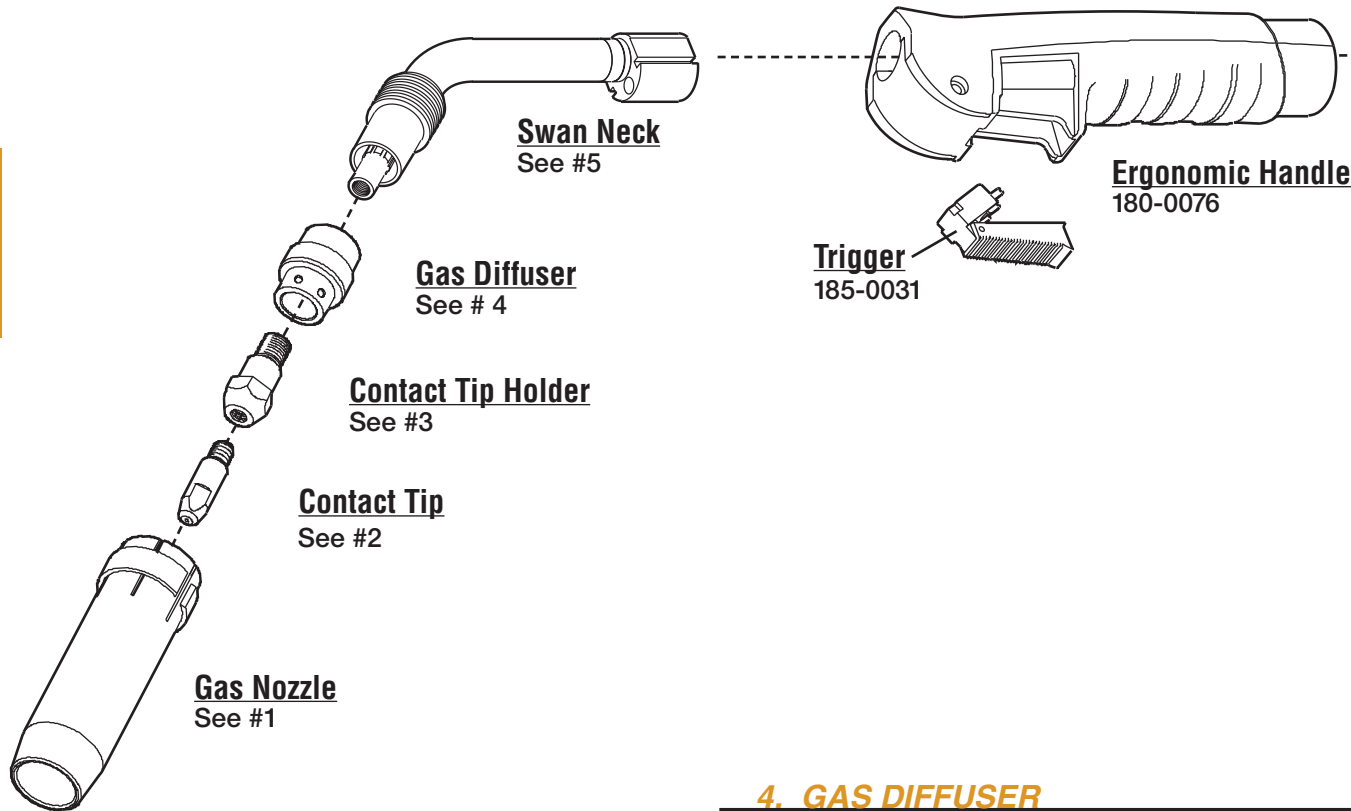


136

BINZEL®

26

MIG



1. GAS NOZZLES

I.D.

145-0051	Nozzle Cylindrical	25/32"	(20mm)
145-0085	Nozzle Conical	41/64"	(16mm)
145-0132	Nozzle Tapered	35/64"	(14mm)

2. CONTACT TIP

I.D.

140-0051	Contact Tip M6 E-Cu .030	(0.8mm)	.037
140-0242	Contact Tip M6 E-Cu .040	(1.0mm)	.048
140-0379	Contact Tip M6 E-Cu .045	(1.2mm)	.055
140-0054	Contact Tip M6 CuCrZr.030	(0.8mm)	.037
140-0245	Contact Tip M6 CuCrZr.040	(1.0mm)	.048
140-0382	Contact Tip M6 CuCrZr.045	(1.2mm)	.055
141-0001	Contact Tip M6 E-Cu.030	(0.8mm)	.043 AL
141-0006	Contact Tip M6 E-Cu.040	(1.0mm)	.055 AL
141-0010	Contact Tip M6 E-Cu3/64"	(1.2mm)	.059 AL

3. CONTACT TIP HOLDERS

I.D.

142-0007	Tip Holder M6 Short
142-0012	Tip Holder M6 Long

4. GAS DIFFUSER

018-0004	Gas Diffuser Black
018-0116	Gas Diffuser White

5. CONDUCTOR TUBES

018-0001	Swan Neck 50 Degree
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6. LINERS

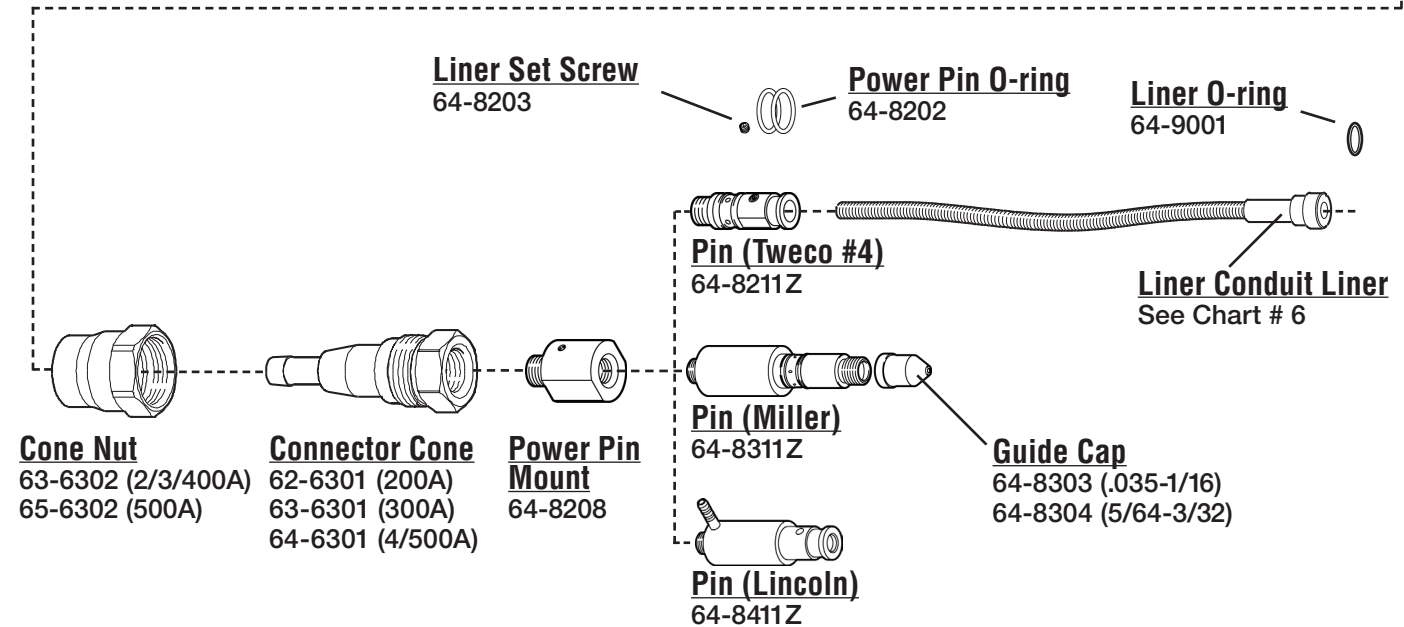
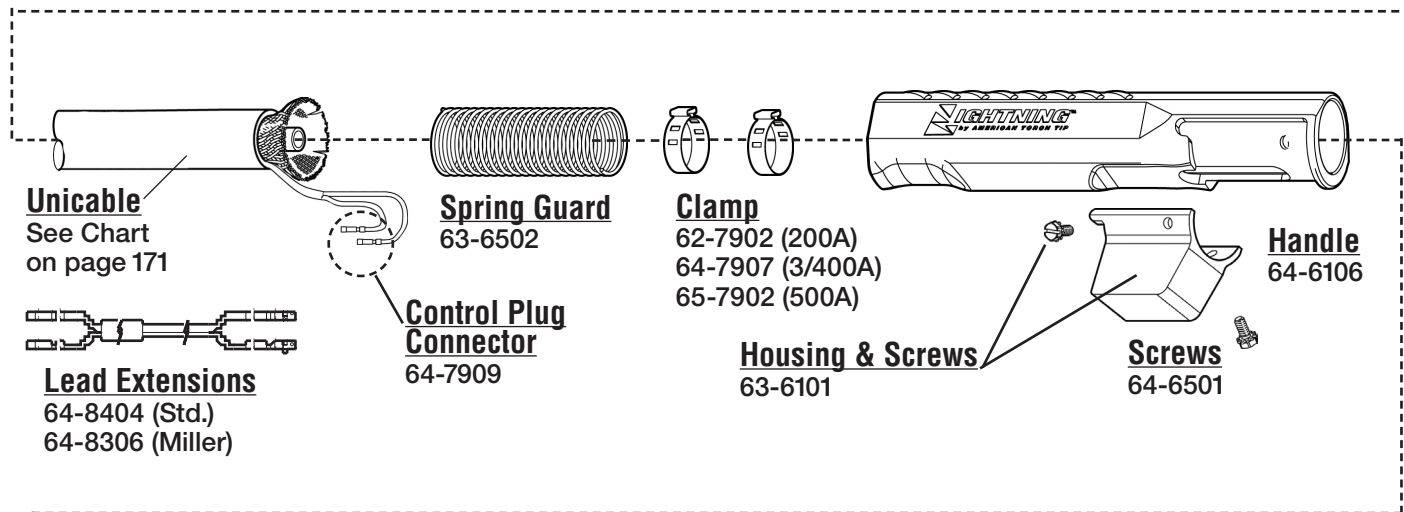
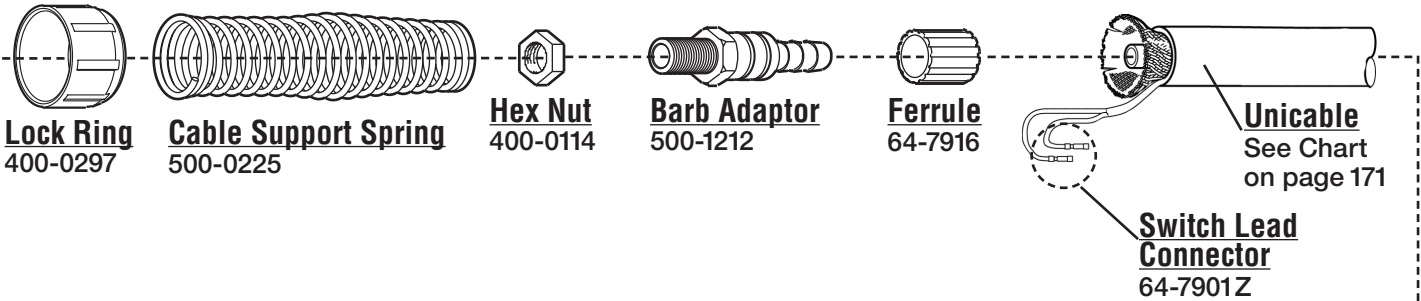
I.D. O.D.

124-0011	Liner 10'	.024-.035	.053	.156
124-0015	Liner 15'	.024-.035 steel	.053	.156
124-0026	Liner 10'	.035-.045	.071	.156
124-9003	Liner 15'	.035-.045 steel	.071	.156
124-0041	Liner 10'	.045-1/16"	.095	.156
124-0042	Liner 15'	.045-1/16"	.095	.156
124-9004	Liner 15'	.052-1/16"	.095	.156
126-0005	Liner, Teflon 10'	3/64"	.059	.156
126-0008	Liner, Teflon 15'	3/64"	.059	.156
126-0021	Liner, Teflon 10'	5/64"	.078	.156
126-0026	Liner, Teflon 15'	5/64"	.078	.156

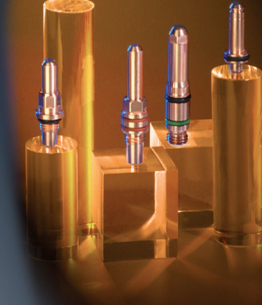
*Liners are not shown

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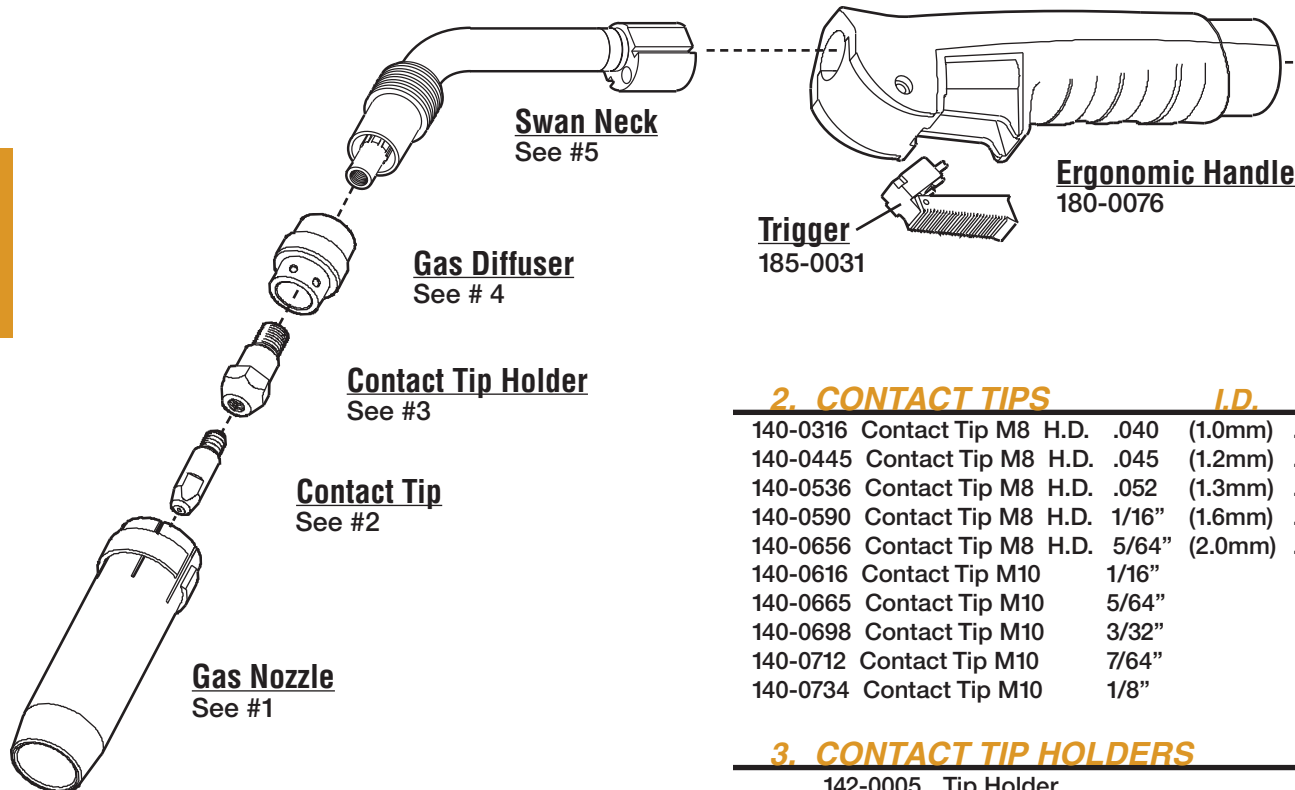


138

BINZEL®

36

MIG



1. GAS NOZZLES

I.D.

- A 145-0078 Nozzle, Conical
- B 145-0126 Nozzle, Tapered
- C 145-0172 Nozzle, Spot Weld
- D 145-0045 Nozzle, Cylindrical

2. CONTACT TIPS

I.D.

140-0051	Contact Tip M6	E-Cu	.030	(0.8mm)	.037
140-0242	Contact Tip M6	E-Cu	.040	(1.0mm)	.048
140-0379	Contact Tip M6	E-Cu	.045	(1.2mm)	.055
140-0054	Contact Tip M6	CuCrZr.030		(0.8mm)	.037
140-0245	Contact Tip M6	CuCrZr.040		(1.0mm)	.048
140-0382	Contact Tip M6	CuCrZr.045		(1.2mm)	.055
141-0001	Contact Tip M6	E-Cu.030		(0.8mm)	.043 AL
141-0006	Contact Tip M6	E-Cu.040		(1.0mm)	.055 AL
141-0010	Contact Tip M6	E-Cu3/64"		(1.2mm)	.059 AL
140-0214	Contact Tip M8	Cu	.035	(0.9mm)	.043
140-0313	Contact Tip M8	Cu	.040	(1.0mm)	.048
140-0442	Contact Tip M8	Cu	.045	(1.2mm)	.055
140-0533	Contact Tip M8	Cu	.052	(1.3mm)	.063
140-0587	Contact Tip M8	Cu	1/16"	(1.6mm)	.073
140-0653	Contact Tip M8	Cu	5/64"	(2.0mm)	.093
140-0677	Contact Tip M8	Cu	3/32"	(2.4mm)	.110
140-0217	Contact Tip M8	H.D.	.035	(1.9mm)	.043

2. CONTACT TIPS

I.D.

140-0316	Contact Tip M8	H.D.	.040	(1.0mm)	.048
140-0445	Contact Tip M8	H.D.	.045	(1.2mm)	.055
140-0536	Contact Tip M8	H.D.	.052	(1.3mm)	.063
140-0590	Contact Tip M8	H.D.	1/16"	(1.6mm)	.073
140-0656	Contact Tip M8	H.D.	5/64"	(2.0mm)	.093
140-0616	Contact Tip M10		1/16"		
140-0665	Contact Tip M10		5/64"		
140-0698	Contact Tip M10		3/32"		
140-0712	Contact Tip M10		7/64"		
140-0734	Contact Tip M10		1/8"		

3. CONTACT TIP HOLDERS

- 142-0005 Tip Holder
- 142-0011 Tip Holder

4. GAS DIFFUSERS

- 018-0004 Gas Diffuser
- 014-0021 Gas Diffuser
- 014-0261 Gas Diffuser

5. CONDUCTOR TUBES

- 014-0006 Swanneck 50 Degree

6. LINERS

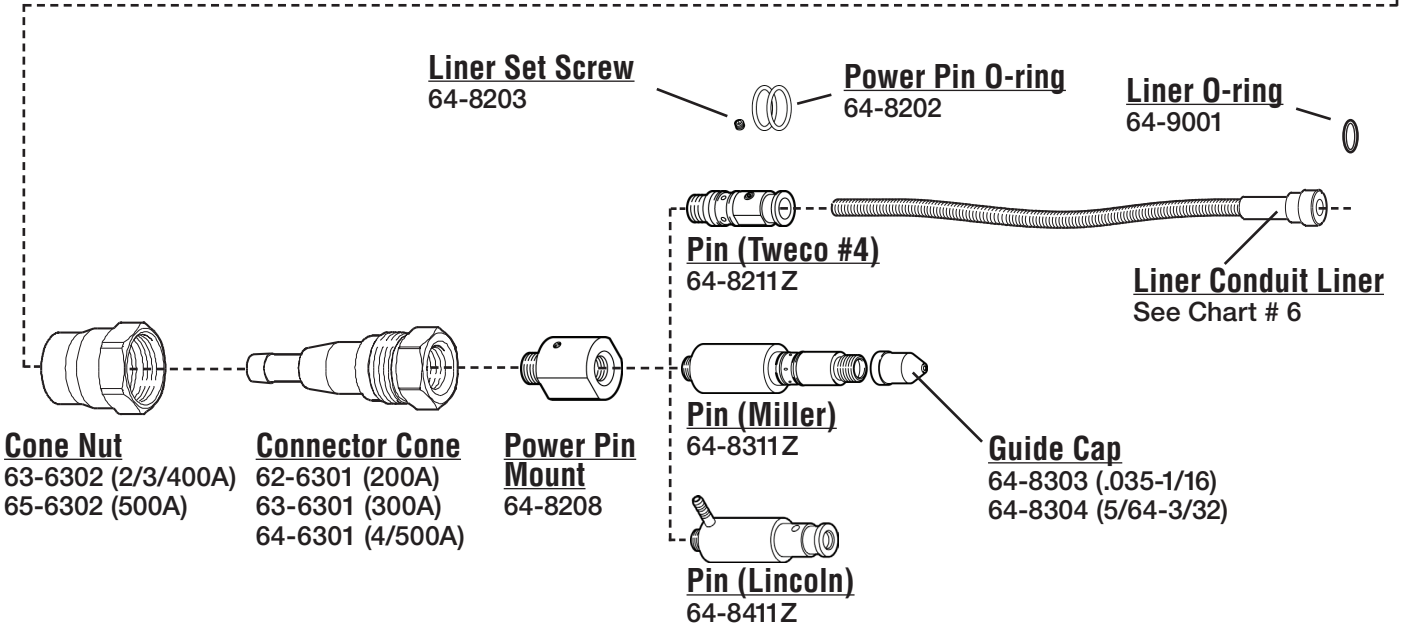
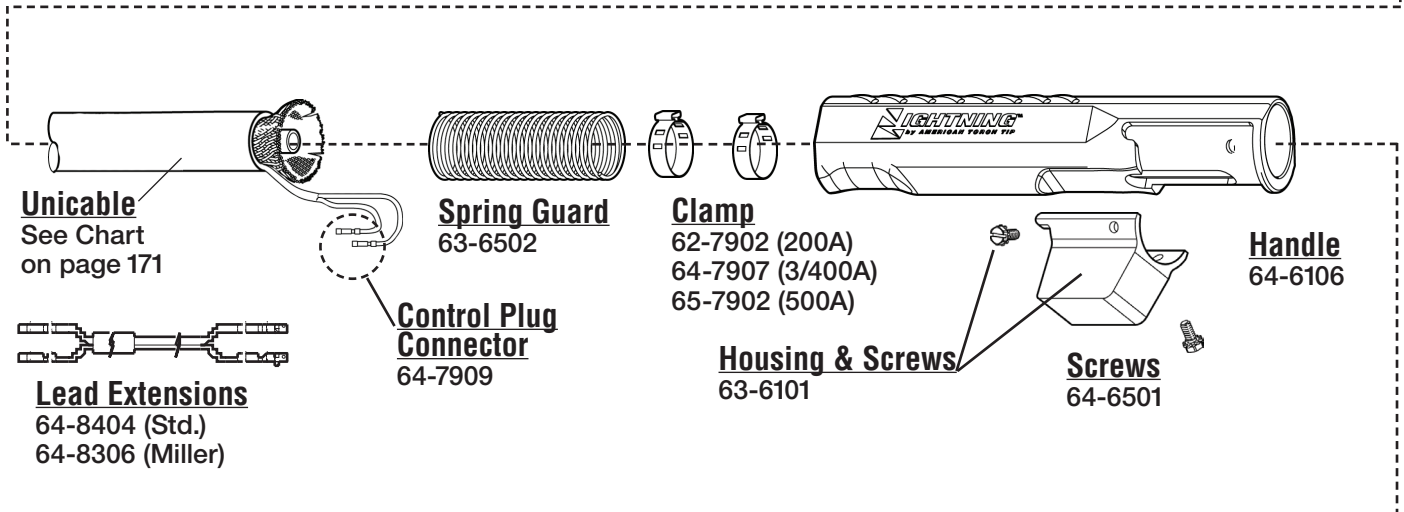
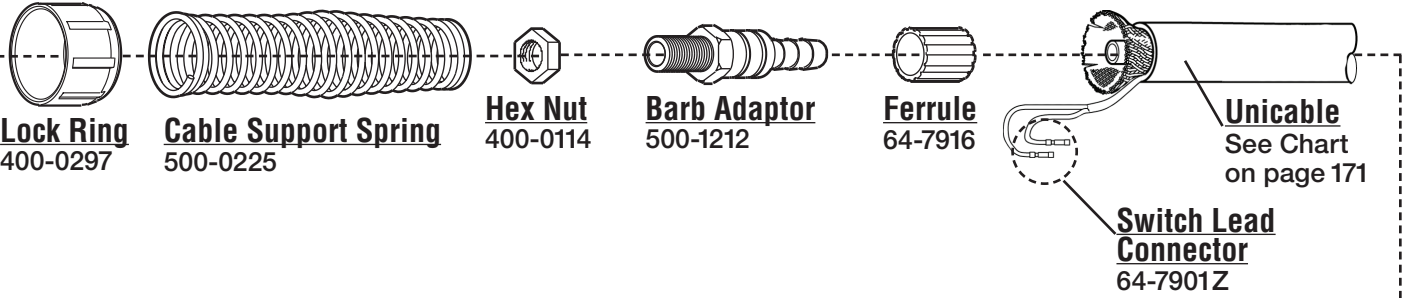
I.D. O.D.

124-0011	Liner 10'	.024-.035	.053	.156
124-0015	Liner 15'	.024-.035 steel	.053	.156
124-0026	Liner 10'	.035-.045	.071	.156
124-9003	Liner 15'	.035-.045 steel	.071	.156
124-0041	Liner 10'	.045-1/16"	.095	.156
124-0042	Liner 15'	.045-1/16"	.095	.156
124-9004	Liner 15'	.052-1/16"	.095	.156
126-0005	Liner, Teflon 10'	3/64"	.059	.156
126-0008	Liner, Teflon 15'	3/64"	.059	.156
126-0021	Liner, Teflon 10'	5/64"	.078	.156
126-0026	Liner, Teflon 15'	5/64"	.078	.156

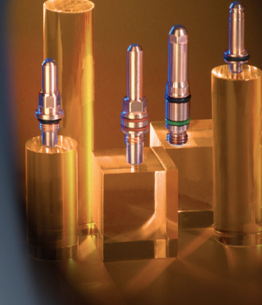
*Liners are not shown.

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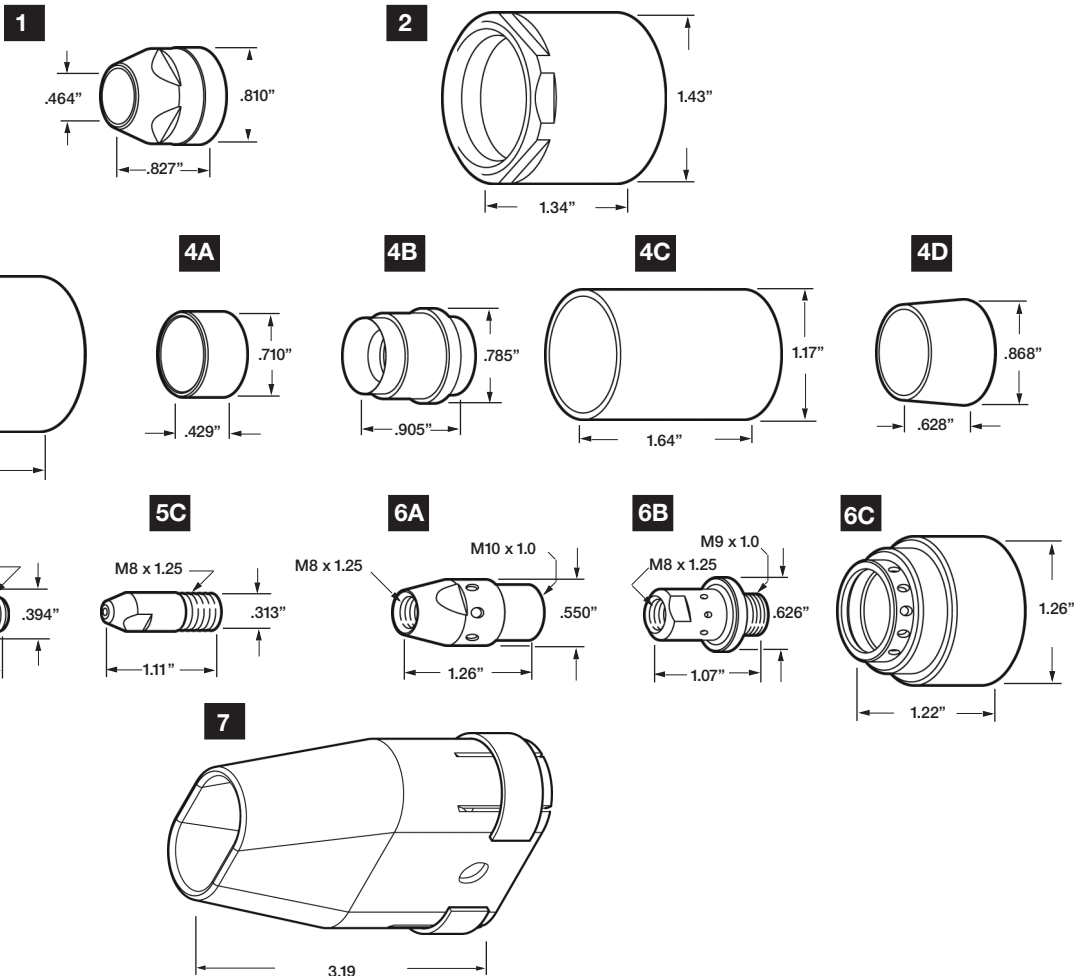
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140

CLOOS®

MISC



1. UNION NUT

743000506 Union nut

2. UNION NUT

754000004 Union Nut

3. NOZZLE

063056100 Nozzle .672" I.D.

4. INSULATOR

- A. 790220105 Insulator, brown
- B. 790220103 Insulator
- C. 754000007 Insulator
- D. 743000015 Insulator

5. CONTACT TIPS

- A. 062123112 Contact Tip, tapered .045"
- B. 062120604 Contact Tip .050"
- C. 062020062 Contact Tip 1.2mm

6. DIFFUSER

- A. 753000002 Diffuser
- B. 709000004 Diffuser
- C. 754000005 Diffuser

7. NOZZLE

753000600 Nozzle Air Cooled, Tandem

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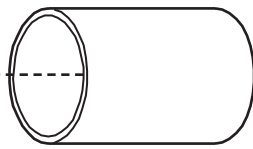
YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



141

CLOOS®

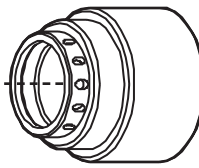
MR W 500-31 ROBOT WELDING TORCH



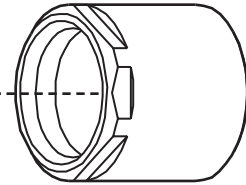
Insulator
709000003



O-Ring
110156178



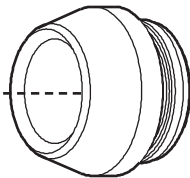
Insulating Bush
709000002



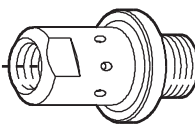
Clamping Nut
709000001



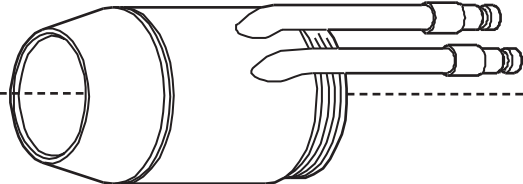
1.2 Tip
062120004



Shroud
709000005



Tip Holder
709000004



Water Jacket
709000400

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142

CLOOS®

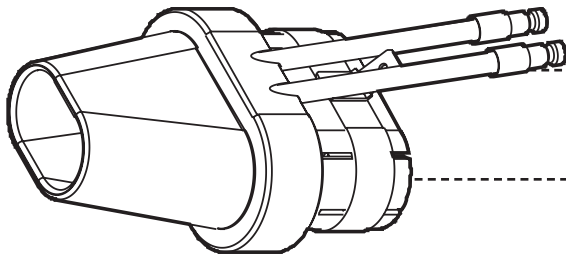
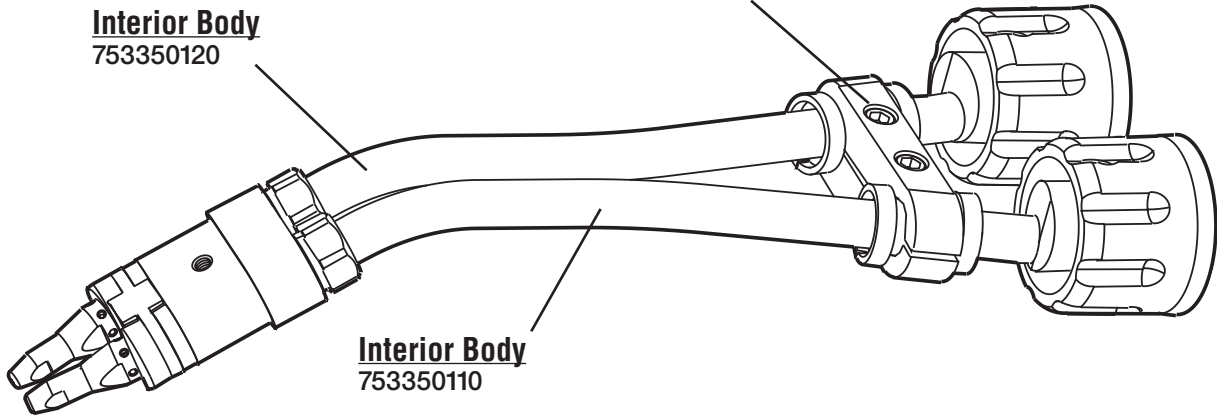
ZMW 600 / 610

MIG

Interior Body
753350120

Clamp
753000009

Interior Body
753350110



Gas Shroud
753000400



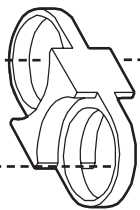
Tip
062123112



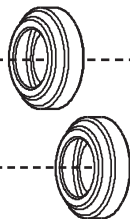
Tip Holder
753000002



Insulator
753000006



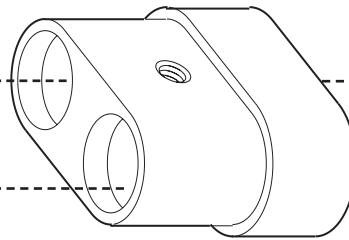
Insulating sleeve holder
753000004



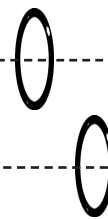
Insulator
753000005



O-Ring
110120300



Nozzle base
753000003



O-Ring
110120300



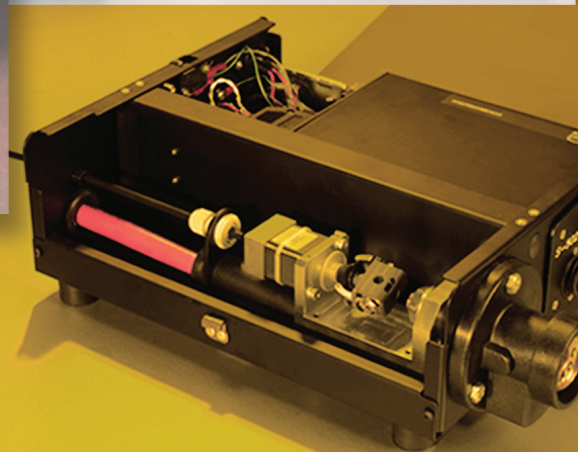
Nut
753000007



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Cyclone





144

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PUSH-PULL GUN

CHART # 3

Heavy Duty Contact Tips

Wire Size	Tip I.D.	Length	Part Number
.030" (0.8mm)	.040" (1.01mm)	1.25	64-1230AL
.035" (0.9mm)	.048" (1.22mm)	1.25	64-1235AL
.040" (1.0mm)	.052" (1.32mm)	1.25	64-1240AL
** .045" (1.2mm)	.060" (1.52mm)	1.25	64-1245AL
.052" (1.4mm)	.073" (1.85mm)	1.25	64-1252AL
1/16" (1.6mm)	.081" (2.05mm)	1.25	64-1262AL

Inlet-Outlet Guides

DIA	Part Numbers#
0.6-0.8 (.023-.030)	Steel 68-P601
0.9-0.12 (.035-.045)	Steel 68-P609
1.6 (.062)	Flux 68-P610
0.6-0.8 (.023-.030)	Alum. 68-P605
0.9-0.12 (.035-.045)	Alum. 68-P611
1.6 (.062)	Alum. 68-P612

CHART # 1A

Nozzles Water Cooled

Size		Part Number
.787" I.D. (1/4" recess)	Cylindrical	145-0051
** 5/8" I.D. (1/4" recess)	Conical	145-0085
9/16 I.D. (1/4" recess)	Conical Small	145-0132

CHART #1B

Heavy Duty Gas Nozzles

Size	Part Number
1/2" I.D. (1/8" recess)	65-2550
5/8" I.D. (1/8" recess)	65-2562
3/4" I.D. (1/8" recess)	65-2575
** 5/8" I.D. (1/4" recess)	64-2562
3/4" I.D. (1/4" recess)	64-2575

Neck Connector Nut

68-P620

Goosenecks (Swivel)

Amperage		Part Number
360A	45° Short	68-P553
360A	45° Long	68-P552
360A	60° Short	68-P555
360A	60° Long	68-P552
400A	40° W/C	68-P556
400A	60° W/C	68-P557

Shock Waser

63-6202

Gas Diffuser

63-3103-2

Diffuser Part Number

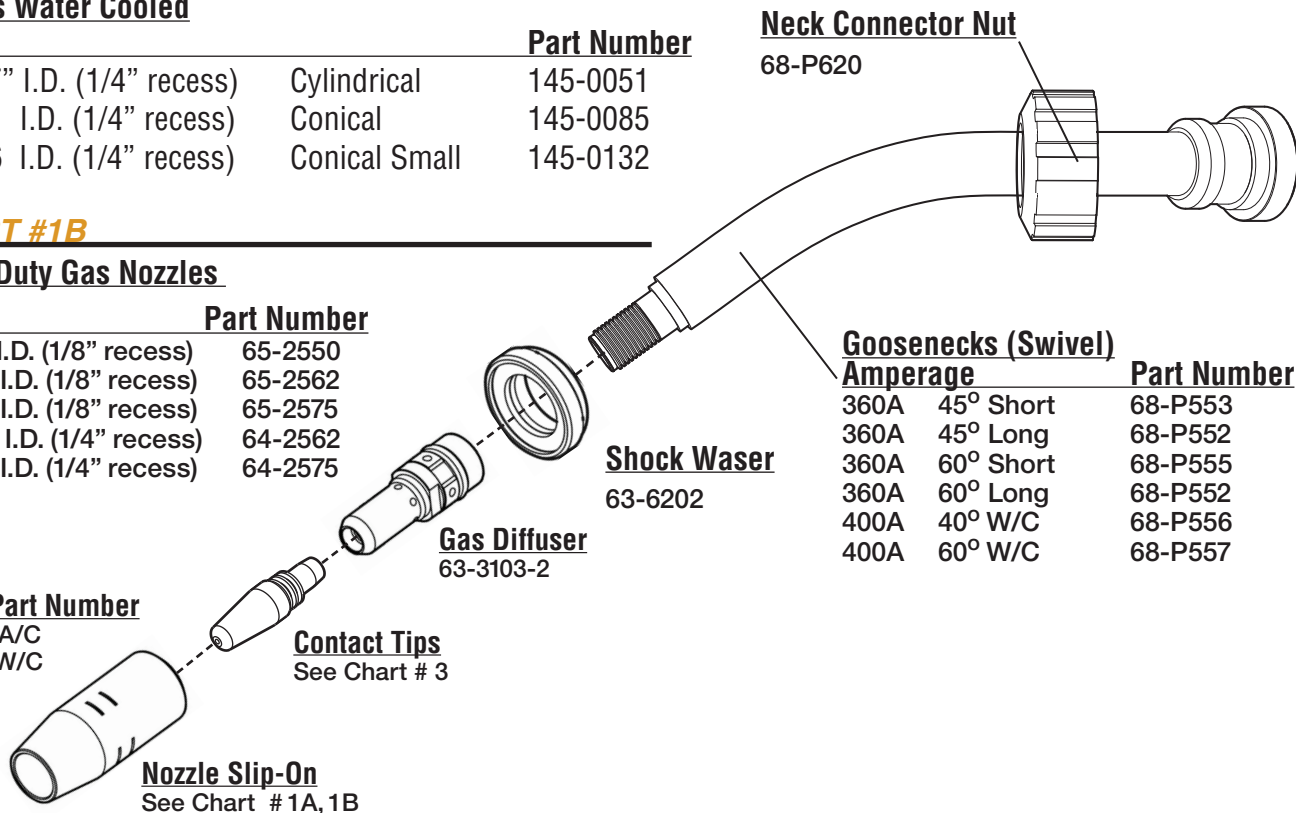
63-3101-2 A/C
63-3101-1 W/C

Contact Tips

See Chart # 3

Nozzle Slip-On

See Chart # 1A, 1B



****Standard Items**

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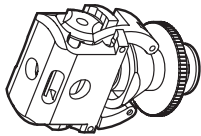




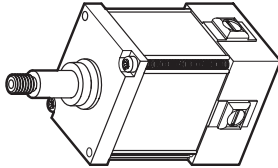
PUSH-PULL GUN

MIG

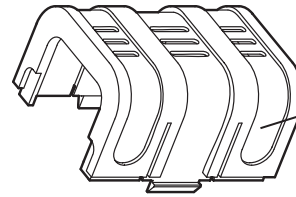
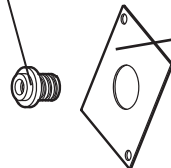
501 Planetary Head
68-P600



Motor
68-P628



Bushing Insulation Set
68-P636



Handle Cover
68-P169

68-P643 **Screws 2**

68-P644 **Brushes Holder For Red**

68-P645 **Brushes Holder For Black**

68-P642 **Brushes Set 2 Black 2 Red W/Screws**

Gasket
68-P621



Guide Holder Gas

68-P615

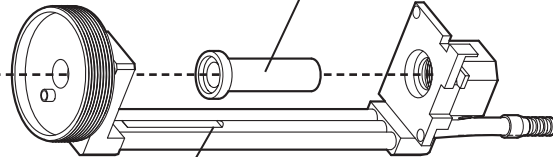
Guide Holder Water

68-P616



Bushing Insulation Set Gas

68-P637



Busing

68-P631



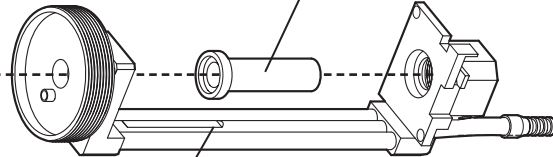
Screw

68-P638



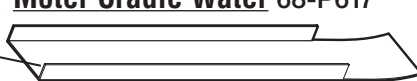
Motor Cradle Gas 68-P618

Motor Cradle Water 68-P617



Insulation Gasket

68-P648



Screw

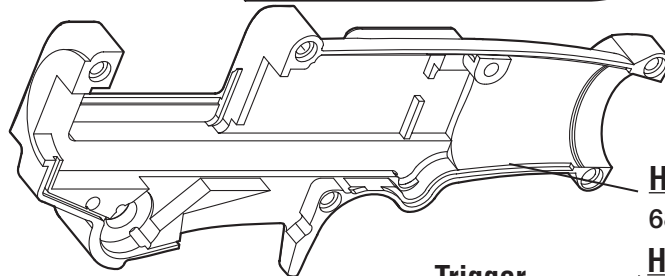
68-P

Handle Shell R.H.

68-P625

Handle Shell L.H.

68-P622



Cork Handle Plug

68-P624



Trigger

68-P649



Nut

68-P639



Hook

68-P623



Pontentiometer

68-P650



Screw

68-P640



Pontentiometer Nut

68-P650N



Screw

68-P641



Screw
68-P638



Spacer Rubber Tube

68-P626



Speed Control Knob

68-P627



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146

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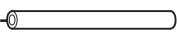
PUSH-PULL GUN BACKEND



Positioning Nut
68-P125



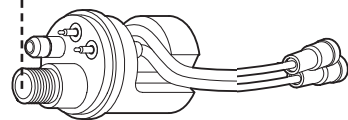
Collet
63-P112



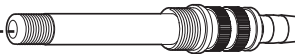
Liner
68-P542 TC 15' 2MM ID
68-P543 TC 25' 2MM ID
68-P546 TC 15' 3MM ID
68-P547 TC 25' 3MM ID

Sealing Ring
64-8104R

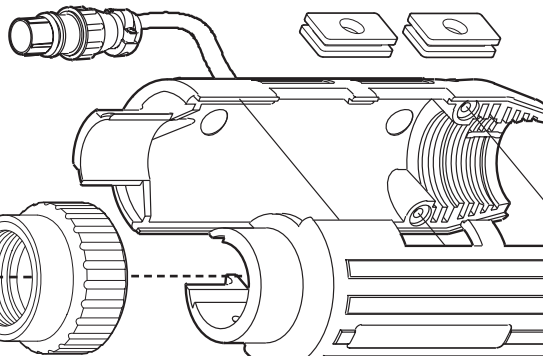
Screws
64-8104S



Quick Connect Power Pin
68-P125

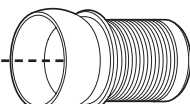


Barb Adaptor
68-P127-1PC

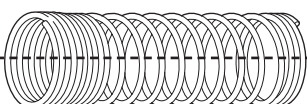


Housing Nut
64-8104

Housing Power Pin Euro
64-8107

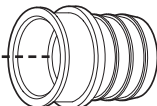


Ball Joint
68-P120



Spring Cable Support
63-6504

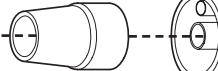
← To Handle



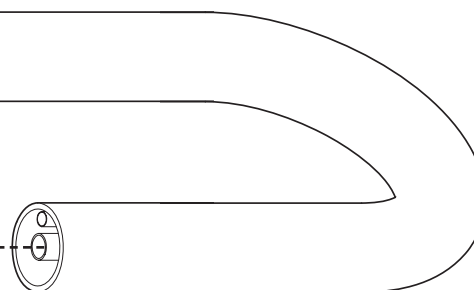
Outside Support
68-P107



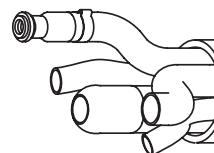
Nipple
63-P105



Ferrul
68-P111



Unicable
64-7115



Unicable / Water
64-7115

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1. NOZZLES

I.D.

A	U608N02	Nozzle	5/8"	(16mm)
B	U2464H10	Nozzle #6	3/8"	(9.5mm)

2. ORIFICE

U4167G02	Orifice
----------	---------

3. CONTACT TIPS

I.D.

A	U475E08	Contact Tip .030 H	(0.8mm)	.037
	U475E09	Contact Tip .035 H	(0.9mm)	.043
	U475E10	Contact Tip .045 H	(1.2mm)	.055

4. NOZZLE INSULATORS

004 002	Nozzle Insulator Small
---------	------------------------

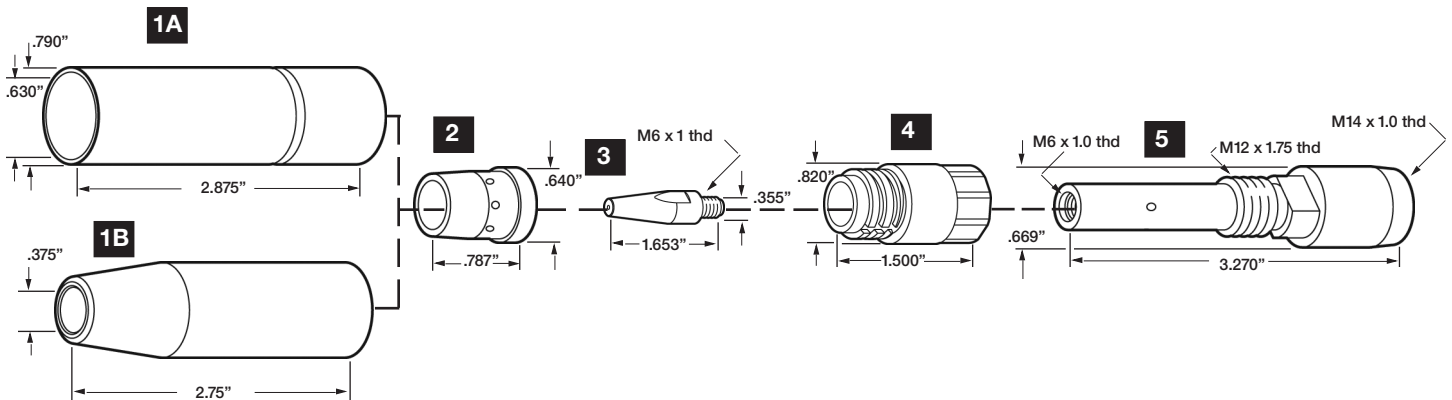
5. TIP BODIES

U2437H07	Tip Body
U2437H07L	Tip Body Long

AVAILABLE ITEMS NOT SHOWN

U1736D06	Tip 1.2mm	.050
U1736D16	Tip 0.9mm	.040
U2075J06	Nozzle	
U2437H01	Orifice Small	
U2464H10	Nozzle # 6	
U2769M05	Insulator	
U4167H12	Tip 0.8mm	.054
U4167H04	Deep Narrow Nozzle	
U4167H11	Tip	.062

MIG



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148

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MIG

1. NOZZLE

I.D.

A	10340	Nozzle Straight	3/4"	(19.0mm)
B	10359	Nozzle Tapered	5/8"	(15.9mm)

2. CONTACT TIPS

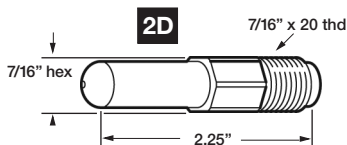
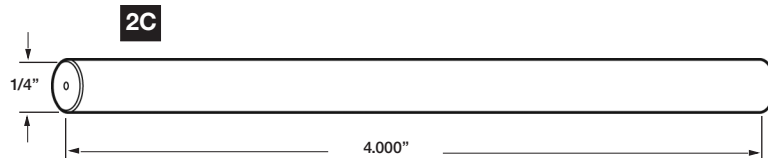
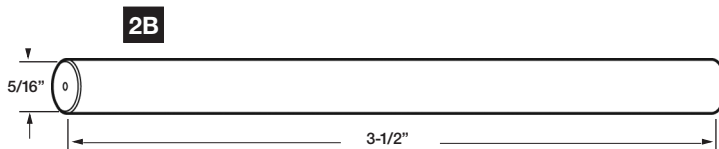
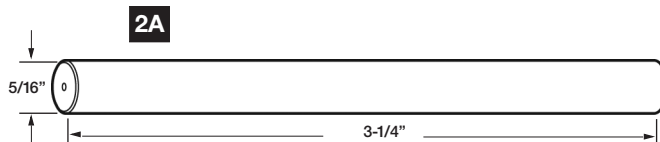
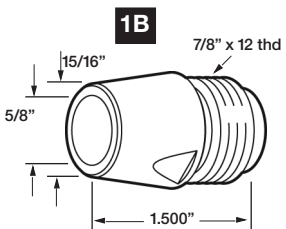
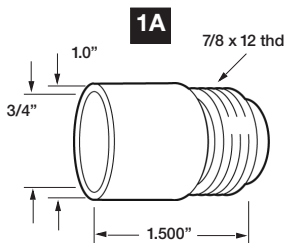
I.D.

A	10893	Contact Tip .035 C	(0.9mm)	.043
	10894	Contact Tip .045 C	(1.2mm)	.055
	10895	Contact Tip .052 C	(1.4mm)	.063
	10896	Contact Tip 1/16" C	(1.6mm)	.073
	10897	Contact Tip 5/64" C	(2.0mm)	.093
	10898	Contact Tip 3/32" C	(2.4mm)	.110
B	10899	Contact Tip 7/64" C	(2.8mm)	.120
	10883	Contact Tip .030 H	(0.8mm)	.037
	10884	Contact Tip .035 H	(0.9mm)	.043
	10885	Contact Tip .045 H	(1.2mm)	.055
	10886	Contact Tip .052 H	(1.4mm)	.063
	10887	Contact Tip 1/16" H	(1.6mm)	.073
	10888	Contact Tip 5/64" H	(2.0mm)	.093
	10889	Contact Tip 3/32" H	(2.4mm)	.110

2. CONTACT TIPS (CONT.)

I.D.

C	10788	Contact Tip .035 H	(0.9mm)	.043
	10789	Contact Tip .045 H	(1.2mm)	.055
	10830	Contact Tip .052 H	(1.4mm)	.063
	10790	Contact Tip 1/16" H	(1.6mm)	.073
	10781	Contact Tip 3/64" Al	(1.2mm)	.059
	10782	Contact Tip 1/16" Al	(1.6mm)	.081
D	15117	Contact Tip .045 H	(1.2mm)	.055
	15121	Contact Tip .052 H	(1.4mm)	.063
	15118	Contact Tip 1/16" H	(1.6mm)	.073
	15119	Contact Tip 5/64" H	(2.0mm)	.093
	15120	Contact Tip 3/32" H	(2.4mm)	.110
	15126	Contact Tip 3/64" Al	(1.2mm)	.059
	15125	Contact Tip 1/16" Al	(1.6mm)	.081
	15124	Contact Tip 3/32" Al	(2.4mm)	.120



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1. CONTACT TIPS		I.D.
A. 2354-0067	Bent Tip .030-.035	.060
2354-0068	Bent Tip .0453/64"	.081
2354-0069	Bent Tip 1/16"	.110
B. 2360-8304	Contact Tip .030	.040
2360-0356	Contact Tip .035	.044
2360-0299	Contact Tip .045	.060
2360-0300	Contact Tip 1/16"	.081
2360-0301	Contact Tip 5/64"	.093
C. 2360-2136	Bent Tip .030	.040
2360-2115	Bent Tip .035	.060
2360-2135	Bent Tip 1/16"	.081
D. 2354-0150	Contact Tip .030-.035	.040
2360-2223	Contact Tip .045	.055
2360-8575	Contact Tip .052	.073
2360-7019	Contact Tip 3/64"	.060
2360-7456	Contact Tip 1/16"	.081
E. 2360-2793	Contact Tip .030-.035	.040
2360-2839	Contact Tip .045	.055
2360-7020	Contact Tip 1/16"	.081
F. 2360-2314	Contact Tip .035	.044
2360-1925	Contact Tip .045	.054
2360-1926	Contact Tip 1/16"	.073
2360-1927	Contact Tip 5/64"	.093
2360-1928	Contact Tip 3/32"	.110
2360-1929	Contact Tip 1/8"	.136

2. NOZZLE		I.D.	AIRCO
A. 2354-0117	Nozzle Copper	1/2"	12.7mm
2354-0118	Nozzle Copper	3/4"	19.1mm
2350-2110	Nozzle Copper	5/8"	15.9mm
B. 2360-6269	Nozzle Brass	11/16"	
2360-2110	Nozzle Copper	11/16"	
C. 2360-6270	Nozzle Brass	11/16"	
D. 2360-6268	Nozzle Brass	7/16"	
E. 2360-2137	Bent Nozzle	5/8"	
3. NOZZLES BODY			
A. 2354-7147	Nozzle Body (Not Shown)		
4. SPACER			
A. 2360-7641	Spacer (Not Shown)		
5. ADAPTER SLEEVE		I.D.	
A. 2360-7640	Adapter Sleeve (Not Shown)		
6. BARREL		I.D.	
A. 2360-2108	Barrel Outer (Not Shown)		



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150

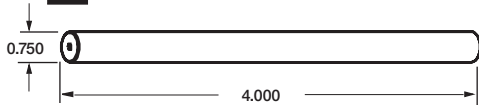
ESAB®

AIRCO

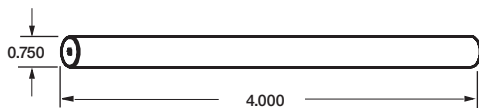
1A

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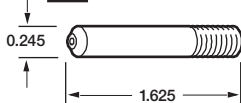
1B



1C



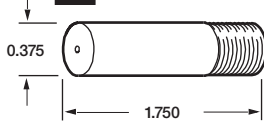
1D



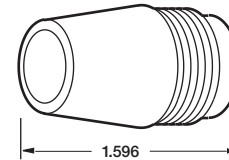
1E

Not Shown

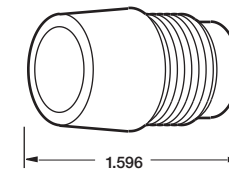
1F



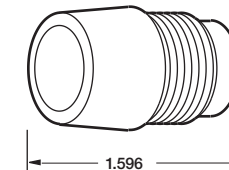
2A



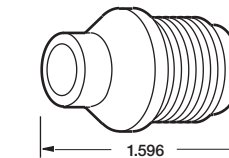
2B



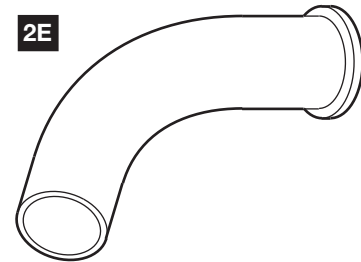
2C



2D



2E



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1. NOZZLES

I.D.

A	998895	Nozzle #6 Insulated Slip-On	3/8"	(09.5mm)
	998893	Nozzle #8 Insulated Slip-On	1/2"	(12.7mm)
	998894	Nozzle #10 Insulated Slip-On	5/8"	(15.8mm)
B	999471	Nozzle H.D. #8 Slip-On	1/2"	(12.7mm)
	999472	Nozzle H.D. #10 Slip-On	5/8"	(15.8mm)
	999473	Nozzle H.D. #12 Slip-On	3/4"	(19.1mm)
	17350	Nozzle E.H.D. Brass #12	3/4"	(19.1mm)
C	948767	Nozzle H.D. #8 Threaded	1/2"	(12.7mm)
	948768	Nozzle H.D. #10 Threaded	5/8"	(15.8mm)
	948769	Nozzle H.D. #12 Threaded	3/4"	(19.1mm)

2. CONTACT TIPS

I.D.

A	94832	Tip H.D. Short	5/64"	(2.0mm)	.093
	948833	Tip H.D. Short	3/32"	(2.4mm)	.110
B	17765	Tip H.D. Med.	.045-3/64	(1.2mm)	.055
	17778	Tip H.D. Med.	.052	(1.3mm)	.063
	948835	Tip H.D. Med.	1/16"	(1.6mm)	.073
C	999578	Tip Short	.045-3/64"	(1.2mm)	.059
	948340	Tip Short	.052	(1.3mm)	.063
	948341	Tip Short	1/16"	(1.6mm)	.073
	2075230	Tip Short	5/64"	(2.0mm)	.093
D	20543	Tip Med.	.023	(0.6mm)	.028
	20544	Tip Med.	.030	(0.8mm)	.037
	996995	Tip Med.	.035	(0.9mm)	.043
	996999	Tip Med.	.045-3/64"	(1.2mm)	.055
	2075349	Tip Med.	.052	(1.3mm)	.063
	996997	Tip Med.	1/16"	(1.6mm)	.073
E	999742	Tip Long	.023	(0.6mm)	.028
	996994	Tip Long	.023	(0.6mm)	.028
	996996	Tip Long	.035	(0.9mm)	.043
	996998	Tip Long	.045-3/64"	(1.2mm)	.055
F	17159	Tube H.D. Short	5/64"	(2.0mm)	.093
	17161	Tube H.D. Short	3/32"	(2.4mm)	.110
G	17163	Tube H.D. Med.	.035	(0.9mm)	.043
	17164	Tube H.D. Med.	.045-3/64"	(1.2mm)	.055
	17155	Tube H.D. Med.	.052	(1.3mm)	.063
	17157	Tube H.D. MED.	1/16"	(1.6mm)	.073

MT-200 / MT-200CC / MT-400/MT-400CC

3. TIP ADAPTERS

A	17984	Adapter for H.D. Tips
B	17983	Adapter for Std. Tips
C	17766	Adapter for .045-1/16" H.D. Tips
	948786	Adapter for 5/64"-3/32" H.D. Tips
N/S	948785	Adapter for Std. Tips, H.D. Nozzles

4. NOZZLE ADAPTERS

A	999452	Adapter for Slip-On Nozzles
B	17318	Adapter for H.D. Threaded Nozzles

LINERS

I.D. O.D.

A	999743	Liner 10'	.023	.039	.120
B	948850	Liner 10'	.030	.060	.185
	2075237	Liner 10'	.035-.045	.070	.185
	2075239	Liner 10'	.052-1/16"	.094	.185
	2075245	Liner 10'	5/64"	.140	.200
	17717	Liner 12'	.030	.060	.185
	17718	Liner 12'	.035-.045	.070	.185
	17719	Liner 12'	.052-1/16"	.094	.185
	2075238	Liner 15'	.035-.045	.070	.185
	2075240	Liner 15'	.052-1/16"	.094	.185

* Liners are not shown

MIG

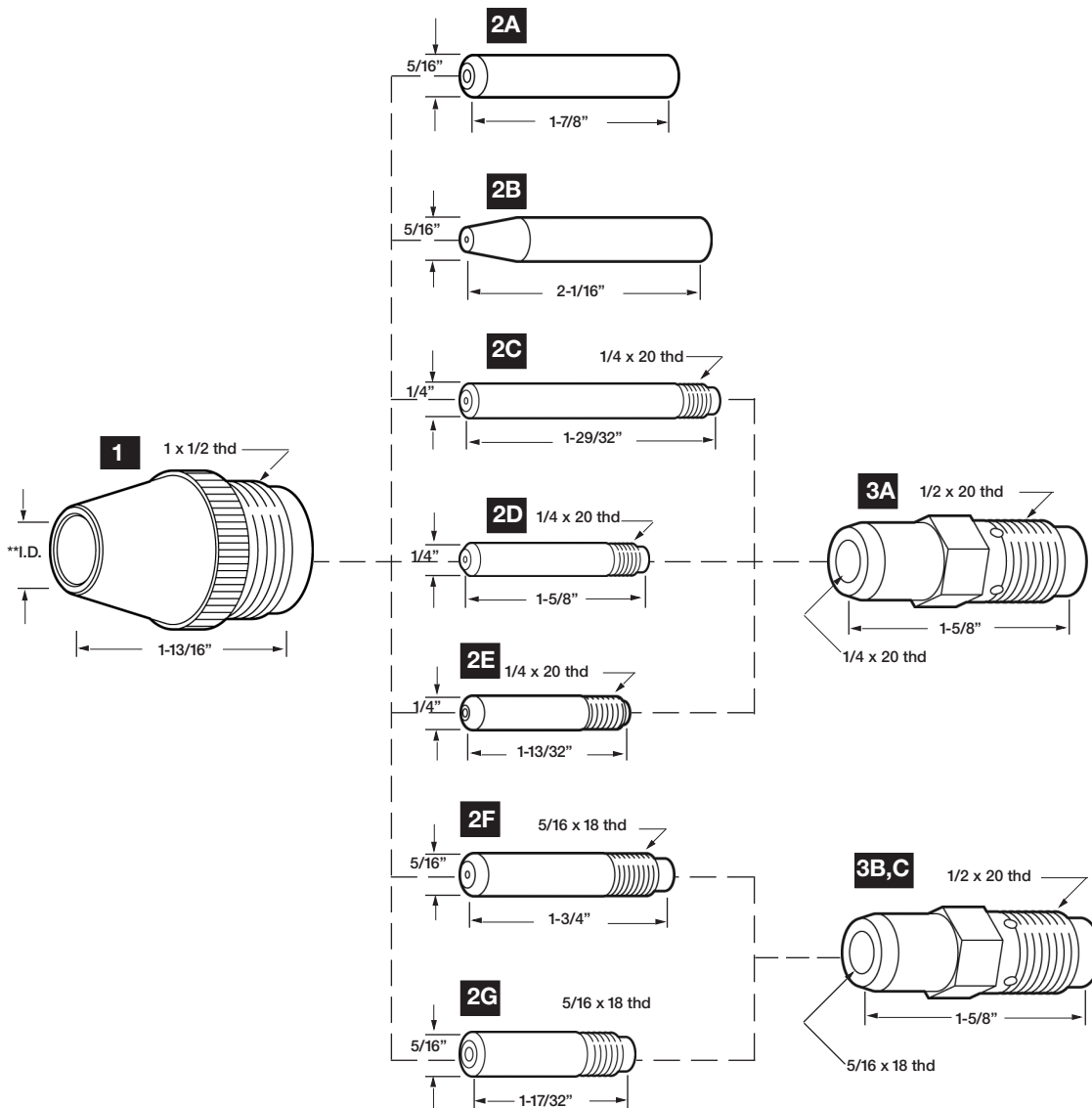


152

ESAB®

MT-500

MIG



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



153

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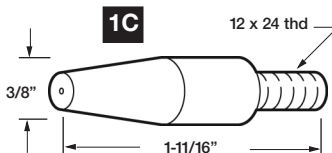
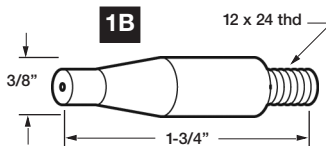
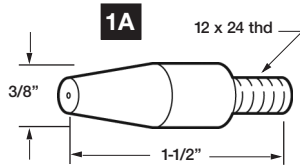
ST-9

1. CONTACT TIPS

I.D.

A	12N55	Tip Short	.030	(0.8mm)	H	.037
	49N44	Tip Short	.035	(0.9mm)	H	.043
	55N06	Tip Short	.045-3/64"	(1.2mm)	H/C/S	.059
B	55N04	Tip Long	.030	(0.8mm)	H	.037
	55N05	Tip Long	.035	(0.9mm)	H	.043
C	57N38	Tip Long	.045	(1.2mm)	H/C	.059

MIG



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154

ESAB®

ST-12

1. NOZZLES

I.D.

61N24	Nozzle #10	5/8"	(15.9mm)
61N25	Nozzle #12	3/4"	(19.1mm)
61N26	Nozzle #14	7/8"	(22.2mm)

2. CONTACT TIPS

I.D.

A	61N35	Contact Tip .030	(0.8mm)	H/C	.037
	61N36	Contact Tip .035	(0.9mm)	H/C	.043
	61N37	Contact Tip .045	(1.2mm)	H/C	.055
	61N38	Contact Tip 3/64"	(1.2mm)	S	.059
	999117	Contact Tip .052	(1.3mm)	H/C	.063
	61N39	Contact Tip 1/16"	(1.6mm)	H/C	.073
	61N40	Contact Tip 1/16"	(1.6mm)	S	.081
	999966	Contact Tip 5/64"	(2.0mm)	H/C	.093
	61N41	Contact Tip 3/32"	(2.4mm)	H/C	.110
	61N42	Contact Tip 3/32"	(2.4mm)	S	.120

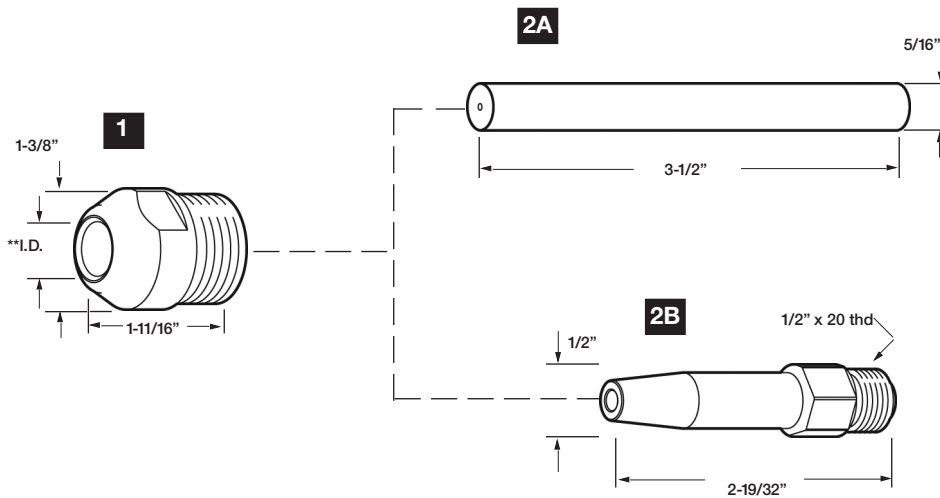
2. CONTACT TIPS

I.D.

B	61N45	Contact Tip 3/32"	(2.4mm)	H/C	.110
	61N46	Contact Tip 3/32"	(2.4mm)	S	.120
	61N47	Contact Tip 1/8"	(3.2mm)	H/C	.144
	61N48	Contact Tip 1/8"	(3.2mm)	S	.152

C = Cored Wire
H = Hard Wire
S = Soft Wire

MIG



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ST-23A / MIG-41A

1. NOZZLES

I.D.

A	998895	Nozzle #6 Insulated Slip-On	3/8" (09.5mm)
	998893	Nozzle #8 Insulated Slip-On	1/2" (12.7mm)
	998894	Nozzle #10 Insulated Slip-On	5/8" (15.8mm)
B	999471	Nozzle #8 H.D. Slip-On	1/2" (12.7mm)
	999472	Nozzle #10 H.D. Slip-On	5/8" (15.8mm)
	999473	Nozzle #12 H.D. Slip-On	3/4" (19.1mm)
	17350	Nozzle #12 H.D. Brass Slip-On	3/4" (19.1mm)

2. CONTACT TIPS

I.D.

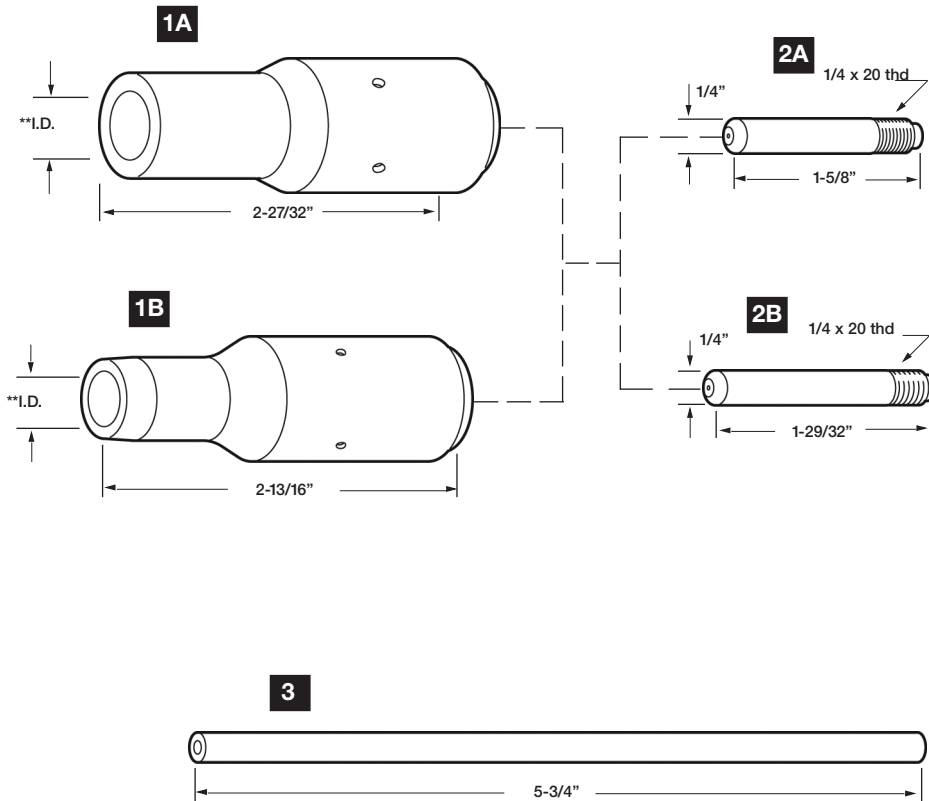
A	20543	Tip Short .023	(0.6mm)	.028
	20544	Tip Short .030	(0.8mm)	.037
	996995	Tip Short .035	(0.9mm)	.043
	996999	Tip Short .045-3/64"	(1.2mm)	.055
	996997	Tip Short 1/16"	(1.6mm)	.073
B	999742	Tip Long .023	(0.6mm)	.028
	996994	Tip Long .030	(0.8mm)	.037
	996996	Tip Long .035	(0.9mm)	.043
	996998	Tip Long .045-3/64"	(1.2mm)	.055

3. LINERS

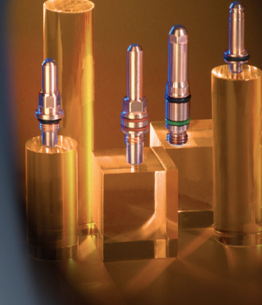
ID

O.D.

19167	Torch Liner	.045-1/16"	.096	.184
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156

ESAB®

MIG

MIG-41 / MT-450W ST-16 / ST-21

1. NOZZLES (USED ON ST-16 AND ST-21)

598739	Nozzle #8	1/2"	(12.7mm)
598721	Nozzle #10	5/8"	(15.9mm)
633985	Nozzle #12	3/4"	(19.1mm)

2. SPATTER LINERS

633603	Nozzle Spatter Liner
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3. CONTACT TIPS I.D.

A	996103	Tube	.030	(0.8mm)	.037
	996104	Tube	.035	(0.9mm)	.043
	996105	Tube	.045-3/64"	(1.2mm)	.059
	996816	Tube	.052	(1.3mm)	.063
	996106	Tube	1/16"	(1.6mm)	.073
	996107	Tube	5/64"	(2.0mm)	.093
	996108	Tube	3/32"	(2.4mm)	.110
	B	632791	Tip Short	.030	(0.8mm)
632793		Tip Short	.035	(0.9mm)	.043
632795		Tip Short	.045-3/64"	(1.2mm)	.059
948308		Tip Short	.052	(1.3mm)	.063
632797		Tip Short	1/16"	(1.6mm)	.073
632799		Tip Short	5/64"	(2.0mm)	.093
632800		Tip Short	3/32"	(2.4mm)	.110
633611		Tip Short	7/64"	(2.8mm)	.120
17832		Tip L. L.	.045-364"	(1.2mm)	.059
17833		Tip L. L.	1/16"	(1.6mm)	.073
17834	Tip L. L.	3/32"	(2.4mm)	.110	
C	632794	Tip Long	.035	(0.9mm)	.043
	632796	Tip Long	.045-3/64"	(1.2mm)	.059
	948335	Tip Long	.052	(1.4mm)	.063
	632798	Tip Long	1/16"	(1.6mm)	.073

4. COLLETS

632811	Collet
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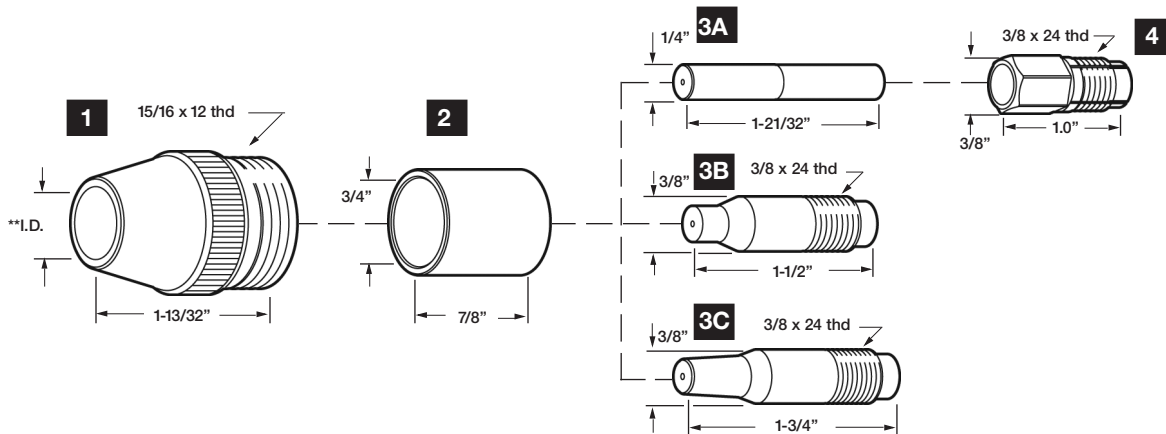
CONDUITS (USED ON ST-16 AND ST-21)

633455	Conduit 10' .030-.035
633456	Conduit 10' .045-1/16"

LINERS (USED ON MT-450W) ID OD

999743	Liner 10'	.023	.039	.120
948850	Liner 10'	.030	.060	.185
2075237	Liner 10'	.035-.045	.070	.180
2075239	Liner 10'	.052-1/16"	.094	.185
2075245	Liner 10'	5/64"	.140	.200
17717	Liner 12'	.030	.060	.185
17718	Liner 12'	.035-.045	.070	.185
17719	Liner 10'	.052-1/16"	.094	.185
2075238	Liner 15'	.035-.045	.070	.185
2075240	Liner 15'	.052-1/16"	.094	.185

*Liners and Conduits are not shown.



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1. CONTACT TIP

I.D.

568611	Contact Tip	.030	(0.8mm)	.037
409648	Contact Tip	.035	(0.9mm)	.043
409649	Contact Tip	.045	(1.2mm)	.055
568612	Contact Tip	1/16"	(1.6mm)	.073
568613	Contact Tip	3/32"	(2.4mm)	.110

2. CONTACT TIP

I.D.

19N45	Contact Tip	1/16"	(1.6mm)	.070
19N46	Contact Tip	5/64"	(2.0mm)	.093
19N47	Contact Tip	3/32"	(2.4mm)	.101
19N764	Contact Tip	7/64"	(2.8mm)	.120
19N120	Contact Tip	.120	(3.0mm)	.128
19N48	Contact Tip	1/8"	(3.2mm)	.136
19N49	Contact Tip	5/32"	(4.0mm)	.166
19N50	Contact Tip	3/16"	(4.8mm)	.199
19N51	Contact Tip	1/4"	(6.4mm)	.272

3. CONTACT TIP

I.D.

20N76	Contact Tip	1/8"	(3.2mm)	.136
20N75	Contact Tip	5/32"	(4.0mm)	.187

4. CONTACT TUBE

I.D.

49N15	Contact Tube	.030	(0.8mm)	.037
49N10	Contact Tube	.035	(0.9mm)	.043
49N11	Contact Tube	.045	(1.2mm)	.055
49N16	Contact Tube	3/64"	(1.2mm)	.063
49N13	Contact Tube	1/16"	(1.6mm)	.073
49N09	Contact Tube	1/16"	(1.6mm)	.081
49N12	Contact Tube	3/32"	(2.4mm)	.110
49N14	Contact Tube	3/32"	(2.4mm)	.120

5. CONTACT TUBE

I.D.

633504	Contact Tube	.035	(.09mm)	.043
633247	Contact Tube	3/64"	(1.2mm)	.059
633248	Contact Tube	1/16"	(1.6mm)	.078
633249	Contact Tube	5/64"	(2.0mm)	.093
633250	Contact Tube	3/32"	(2.4mm)	.110
633251	Contact Tube	3/32"	(2.4mm)	.120

6. CONTACT TIP

I.D.

49N06	Contact Tip	.030	(0.8mm)	.037
49N05	Contact Tip	.035	(0.9mm)	.043
49N04	Contact Tip	.045	(1.2mm)	.055
49N08	Contact Tip	.045-3/64"	(1.2mm)	.059
49N03	Contact Tip	1/16"	(1.6mm)	.073
49N02	Contact Tip	1/16"	(1.6mm)	.081
49N01	Contact Tip	3/32"	(2.4mm)	.116
49N07	Contact Tip	3/32"	(2.4mm)	.104

7. CONTACT TUBE

I.D.

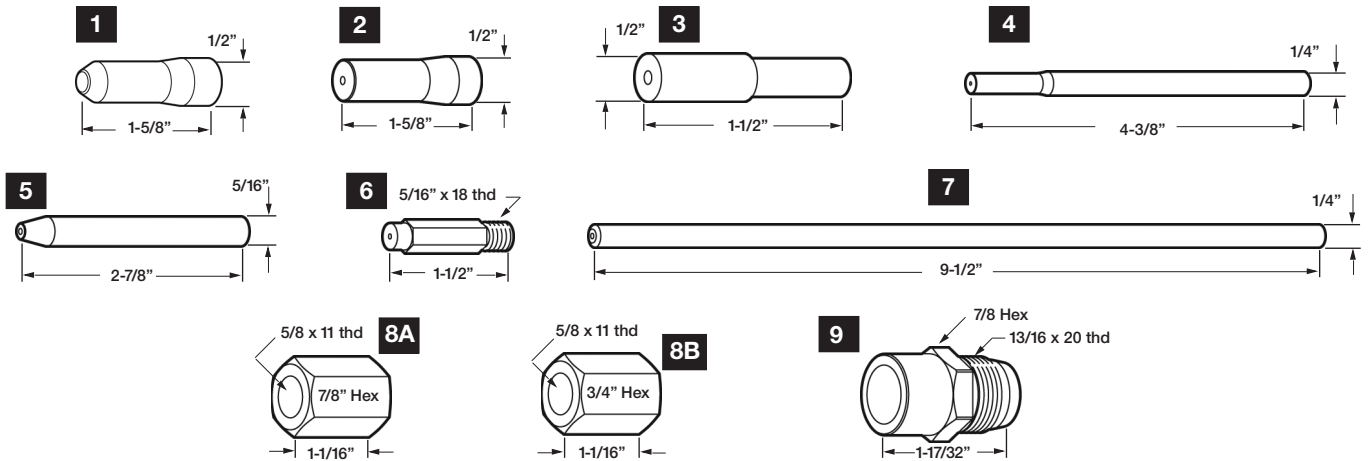
08N54	Contact Tube	.035	(0.9mm)	.043
08N55	Contact Tube	.045	(1.2mm)	.055
08N50	Contact Tube	1/16"	(1.6mm)	.073
08N53	Contact Tube	1/16" AI	(1.6mm)	.081
08N52	Contact Tube	3/32"	(2.4mm)	.110
08N51	Contact Tube	3/32"	(2.4mm)	.120

8. TIP NUT

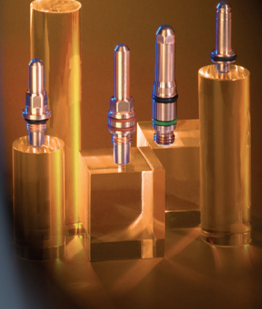
- A. 999398 Tip Nut Subarc Large
- B. 19N43 Tip Nut Subarc Small

9. NOZZLE

105Z20 Nozzle #10 5/8" (15.9mm)



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158

FRONIUS®

AW801-1R0

1. NOZZLES

I.D.

0185	Nozzle water Cooled	.067	(17.1mm)
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2. CONTACT TIPS

I.D.

1578	Contact Tip 1.2mm	.052	
1579	Contact Tip 1.6mm	.070	

3. COUNTER NUTS

0184	Counter Nut/Diffuser M16 x 1.5		
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4. WATER DISTRIBUTION RINGS

0181	Water Distribution Ring		
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5. GUIDE RINGS

0182	Guide Ring		
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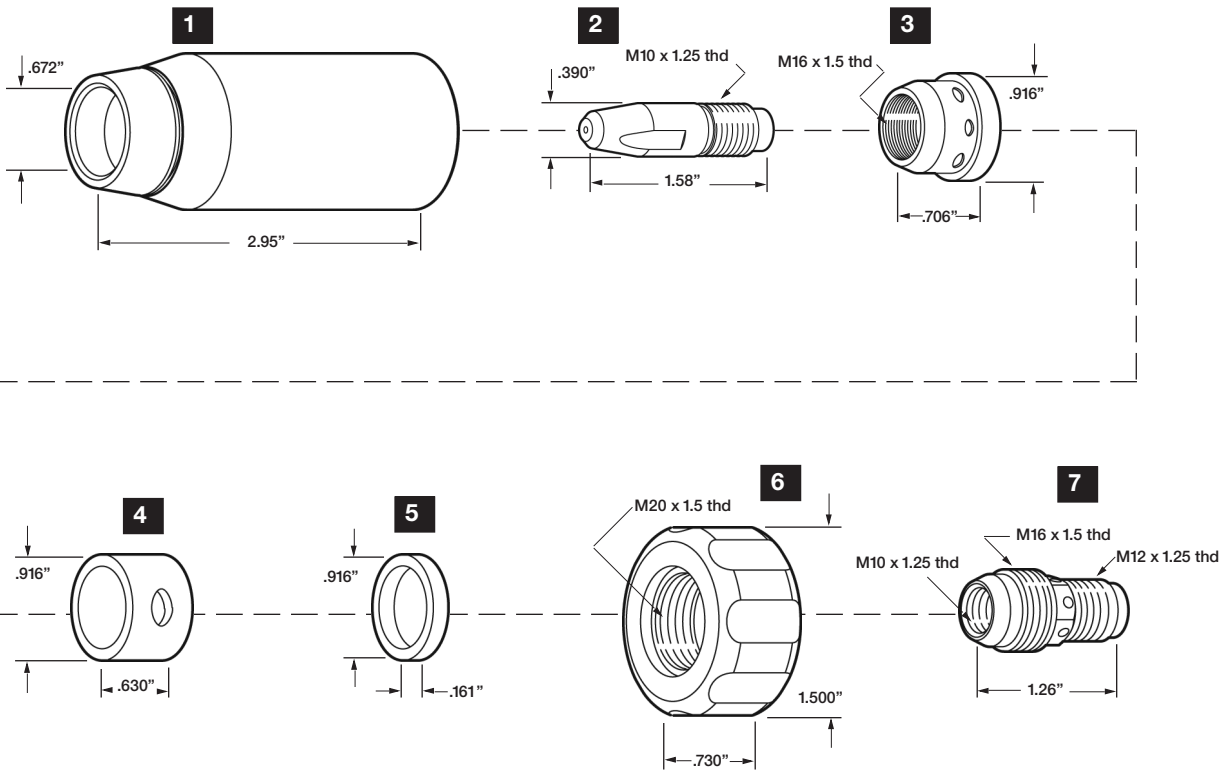
6. CLAMPING NUTS

0183	Clamping Nut		
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7. TIP ADAPTER

2166	Tip Adapter M16 x 1.5		
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MIG



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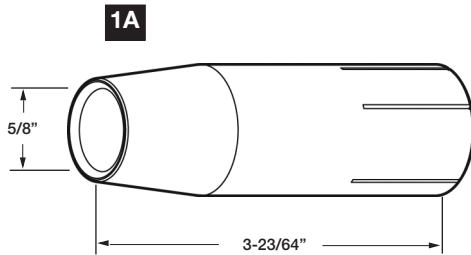




1. NOZZLES

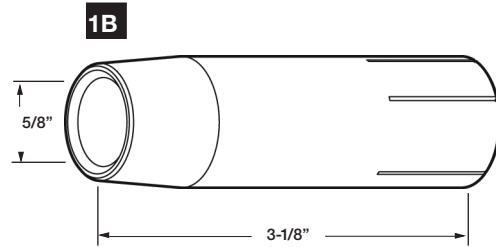
I.D.

A	42.0001.5129	Nozzle	5/8
B	42.0001.5155	Nozzle	5/8



2. CONTACT TIPS (Not Shown) I.D. WIRE

42.0001.1576	Contact Tip	.035	(.08mm)
42.0001.1577	Contact Tip	.045	(1.0mm)
42.0001.1578	Contact Tip	.052	(1.2mm)
42.0001.1579	Contact Tip	.070	(1.6mm)
42.0001.1930	Contact Tip	.063	(1.4mm)



1. NOZZLES

I.D.

379718	Nozzle Slip-On	1/2" (12.7mm)
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2. NOZZLE ADAPTERS

379708	Nozzle Adapter
--------	----------------

HOBART®

PIECEMAKER 14-A

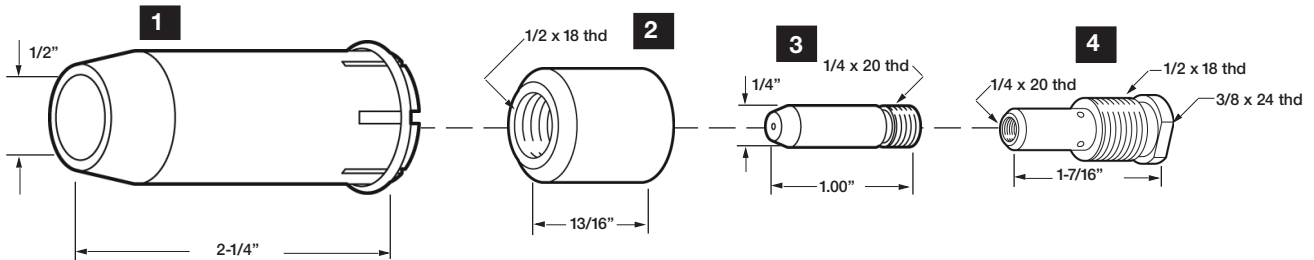
3. CONTACT TIPS

I.D.

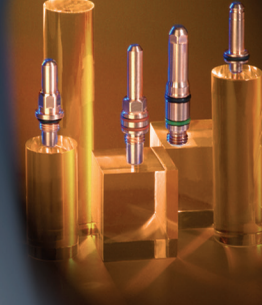
379587	Contact Tip .023	(0.6mm)	H	.028
379304	Contact Tip .030	(0.8mm)	H	.037
379314	Contact Tip .035	(0.9mm)	H/T/AL	.043
379315	Contact Tip .045	(1.2mm)	H/T	.055

4. GAS DIFFUSERS

177107	Gas Diffuser
--------	--------------



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160

HOBART®

MIG

PIECEMAKER 25-A GAL-300

1. NOZZLES

ID

A	379612	Nozzle Slip-On for .024"	1/2"	(12.7mm)
B	379300	Nozzle Slip-On or.030"	9/16"	(14.3mm)
C	379449	Nozzle Screw-On	9/16"	(14.3mm)
D	177045	Nozzle Slip-On Slimline	3/8"	(09.5mm)

2. INSULATORS

379301	Nozzle Insulator
--------	------------------

3. CONTACT TIPS

ID

A	379587	Contact Tip .023	(0.6mm) H	.028
	379304	Contact Tip .030	(0.8mm) H	.037
	379314	Contact Tip .035	(0.9mm) H/T/AL	.043
	379315	Contact Tip .045	(1.2mm) H/T	.052
	379317	Contact Tip .045	(1.2mm) H/T/AL	.059
	379357	Contact Tip .052	(1.3mm) H/T	.063
B	379649	Contact Tip 1/16"	(1.6mm) H/T	.073
	177151	Tip Tapered .024	(0.6mm) H/T	.028
	177152	Tip Tapered .030	(0.8mm) H/T	.037
	177028	Tip Tapered .035	(0.9mm) H/T	.043
	177029	Tip Tapered .045	(1.2mm) H/T	.055

4. TIP ADAPTERS

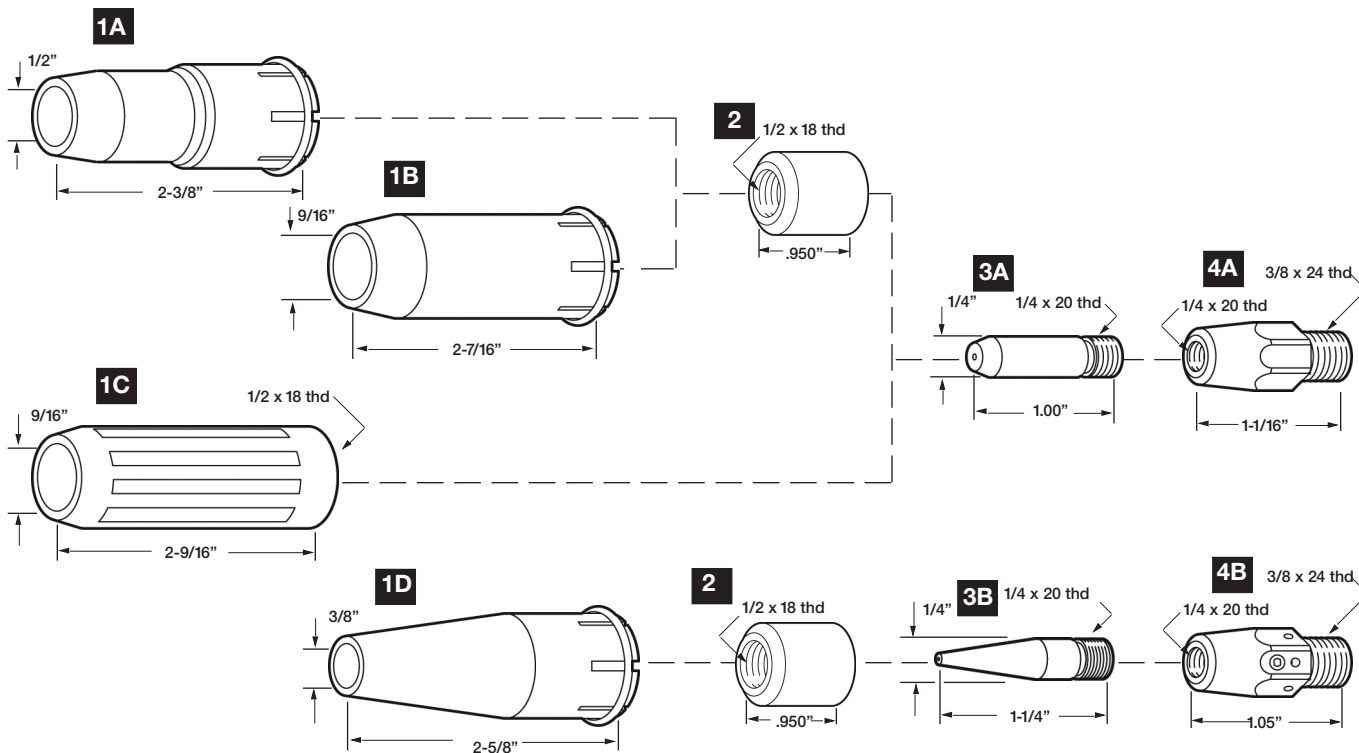
A	379595	Tip Adapter	.024
	379596	Tip Adapter	.030
	379433	Tip Adapter	.035-.045
B	177111	Tip Adapter	.024-.052

LINERS

ID OD

379601-3	Liner Assy. 15'	.024	H	.042	.130
379599-3	Liner Assy. 15'	.030	H/T	.057	.154
379335-3	Liner Assy. 15'	.035-.045	H/T	.070	.163
379349-3	Liner Assy. 15'	.052-1/16"	H/T		
379429-3	Liner Assy. 15'	.035-.045	H/T		
379347-4	Liner Assy. 12'	.035	Al.	.058	.176
379347-5	Liner Assy. 12'	.045-.052	Al.	.080	.176

* Liners are not shown.



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



161

HOBART®

GA-250, GA-400, GA-600

1. CONTACT TIPS

ID

A.	377460	Contact Tip .030	.035
	377461	Contact Tip .035	.040
	377462	Contact Tip .035	.044
	377463	Contact Tip .045	.052
	377464	contact tip .045	.057
	377465	contact tip .045	.062
B.	377466	contact tip .030	.037
	377467	contact tip .035	.040
	377468	contact tip .035	.044
	377469	contact tip .045	.062
C.	377476	contact tip .045	.052
	377477	contact tip .052	.059
	377478	contact tip 1/16	.070
	377480	contact tip 1/16	.081
	377481	contact tip 5/64	.086
	377482	contact tip 3/32	.109
	377483	contact tip 7/64	.125
	377484	contact tip 1/8	.136
	377500	contact tip 5/32	.166

2. DIFFUSER

ID

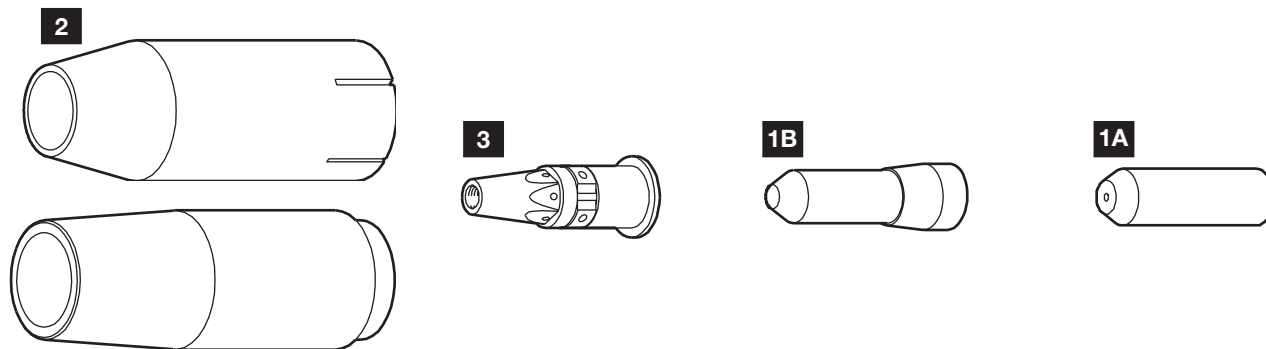
177135 Gas Diffuser
used with piecemaker 14a and gal-100

3. NOZZLES

ID

A 379925 hd nozzle 3/4
B 379981 nozzle 598 act450/wc500

MIG



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162

HOBART®

PIECEMAKER 40-A / GAL-400 - GAL-45L / ACT-300

1. NOZZLES

ID

A	177134	Nozzle Slip-On	5/8"	(15.9mm)
B	177042	Nozzle Threaded	3/8"	(9.5mm)
C	379645	Nozzle Slip-On	5/8"	(15.9mm)

2. NOZZLE ADAPTERS

379353	Nozzle Adapter
--------	----------------

3. CONTACT TIPS

ID

A	379394	Contact Tip .035	(0.9mm)	H/T/AL	.043
	177000	Contact Tip .045	(1.2mm)	H/T	.055
	379296	Contact Tip .045	(1.2mm)	H/T/AL	.059
	379395	Contact Tip .052	(1.3mm)	H/T	.073
	379398	Contact Tip 1/16"	(1.6mm)	H/T	.081
	379396	Contact Tip 5/64"	(2.0mm)	T	.093
	379297	Contact Tip 3/32"	(2.4mm)	T	.110
B	177028	Tip Tapered .035	(0.9mm)	H/T	.043
	177029	Tip Tapered .045	(1.2mm)	H/T	.055

4. GAS DIFFUSERS

A	177304	Gas Diffuser
B	379592	Gas Diffuser Slim Line
C	379594	Gas Diffuser .035-.045 Wire
	379438	Gas Diffuser .052-5/64" Wire
D	379615	Gas Diffuser 3/32" Wire

5. NOZZLE INSULATORS

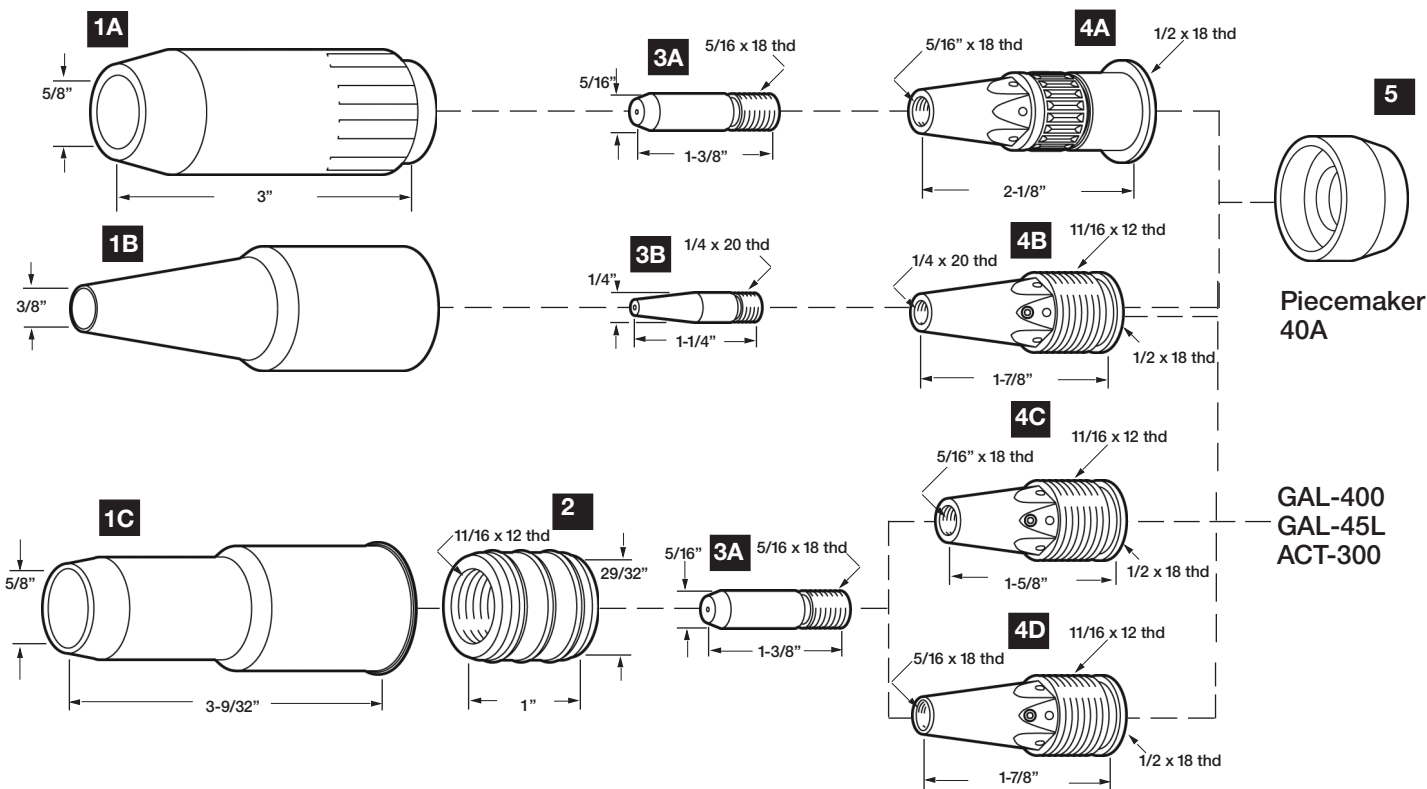
177136	Nozzle Insulator (40-A)
--------	-------------------------

LINERS

ID OD

A	379335-3	15'	.035-.045	H/T	(400)	.070	.163
	379349-3	15'	.052-1/16"	H/T	(400)	.088	.186
	379351-3	15'	5/64"	H/T	(40-A, 400)	.126	.186
	379347-4	12'	.035	AL	(40-A, 400)	.058	.178
	379347-5	12'	3/64"	AL	(40-A, 400)	.080	.178
	379529-7	15'	.035	AL	(45L)	.060	.178
	379529-8	15'	3/64"	AL	(45L)	.080	.178
	379529-9	15'	1/16"	AL	(45L)	.097	.178
	379521-3	15'	3/32"	T	(45L)	.129	.258

* Liners are not shown.



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



163

HOBART®

PIECEMAKER 50-W

MIG

1. NOZZLES

ID

177166 Nozzle Slip-On 5/8" (15.9mm)

2. INSULATORS

377885-1 Nozzle Insulator

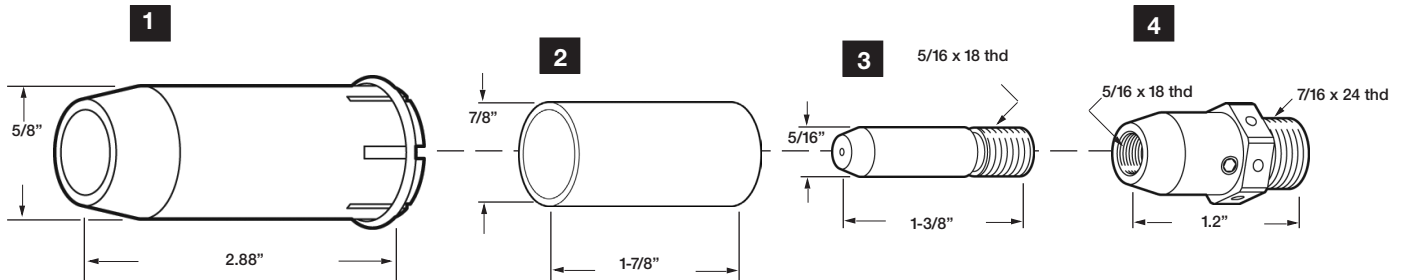
3. CONTACT TIPS

ID

379394	Contact Tip .035	(0.9mm)	H/T/AL	.043
177000	Contact Tip .045	(1.2mm)	H/T	.055
379296	Contact Tip .045	(1.2mm)	H/T/AL	.059
379395	Contact Tip .052	(1.3mm)	H/T	.073
379298	Contact Tip 1/16"	(1.6mm)	H/T	.081
379396	Contact Tip 5/64"	(2.0mm)	T	.093
379297	Contact Tip 3/32"	(2.4mm)	T	.110

4. DIFFUSERS

379987 Gas Diffuser .035-.045
 379988 Gas Diffuser .052-5/64"



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164

HOBART®

GAL-500

1. NOZZLES

ID

379450 Nozzle Screw-On 11/16" (17.5mm)

2. INSULATORS

377775-1 Nozzle Insulator

3. CONTACT TIP

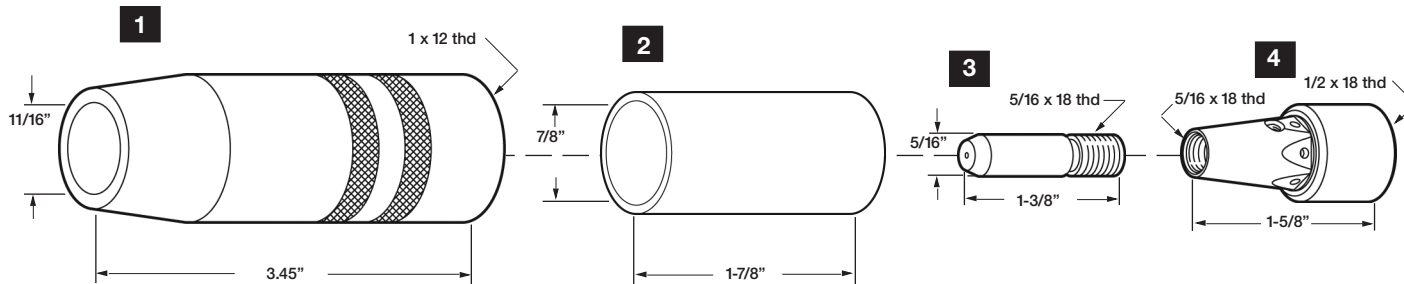
ID

379394	Contact Tip .035	(0.9mm)	H/T/AL	.043
177000	Contact Tip .045	(1.2mm)	H/T	.055
379296	Contact Tip .045	(1.2mm)	H/T/AL	.059
379395	Contact Tip .052	(1.3mm)	H/T	.073
379298	Contact Tip 1/16"	(1.6mm)	H/T	.081
379396	Contact Tip 5/64"	(2.0mm)	T	.093
379297	Contact Tip 3/32"	(2.4mm)	T	.110

4. DIFFUSERS

379490 Gas Diffuser .035-1/16"
379530 Gas Diffuser 5/64"-3/32"

MIG



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



165

HOBART®

SAT-600

1. CONTACT TIPS

ID

378147	Contact Tube .035	(0.9mm)	H .043
377939	Contact Tube .045	(1.2mm)	H .055
377940	Contact Tube .052	(1.3mm)	H .073
377941	Contact Tube 1/16"	(1.6mm)	H .081
377942	Contact Tube 5/64"	(2.0mm)	H .093
377943	Contact Tube 3/32"	(2.4mm)	H .110
377944	Contact Tube 7/64"	(2.8mm)	H .120
377945	Contact Tube 1/8"	(3.2mm)	H .144

2. NUTS

378320	Locking Tip Nut
--------	-----------------

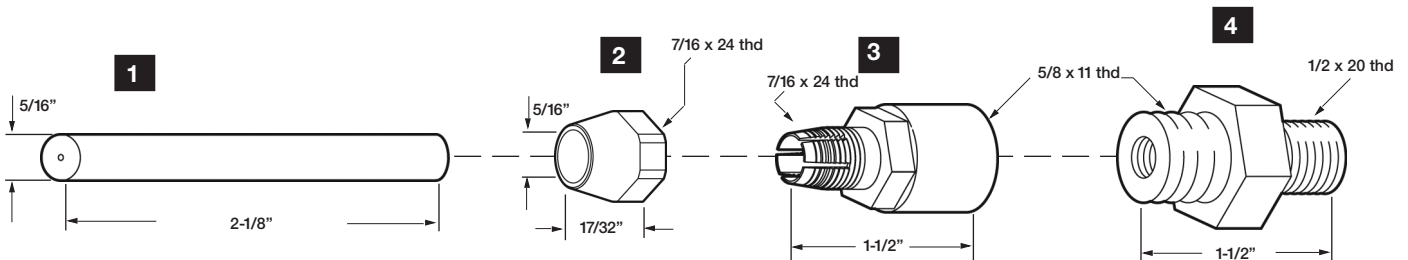
3. GAS DIFFUSERS

378653	Gas Diffuser
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4. TIP ADAPTERS

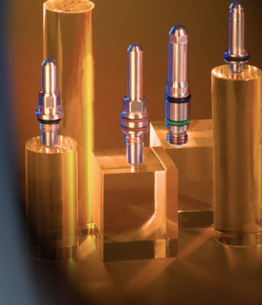
16DA629	Contact Tip Adapter
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166

HOBART®

AG-2000 \ SP-2000

1. NOZZLES

ID

407741	Nozzle Threaded	5/8"	(15.9mm)
407742	Nozzle Threaded	3/4"	(19.1mm)

2. NOZZLE BODIES

407842-1	Nozzle Body
----------	-------------

3. CONTACT TIPS

ID

A	407727	Contact Tip Notched	.030	(0.6mm)	.037
	407728	Contact Tip Notched	.035	(0.8mm)	.043
	407729	Contact Tip Notched	.045	(1.2mm)	.055
B	407730	Contact Tip Long	.030	(0.6mm)	.037
	407731	Contact Tip Long	.035	(0.8mm)	.043
	407732	Contact Tip Long	.045	(1.2mm)	.055
C	407734	Contact Tip H.D.	3/64"	(1.2mm)	.059
D	407839-1	Contact Tip	.030	(0.6mm)	.037

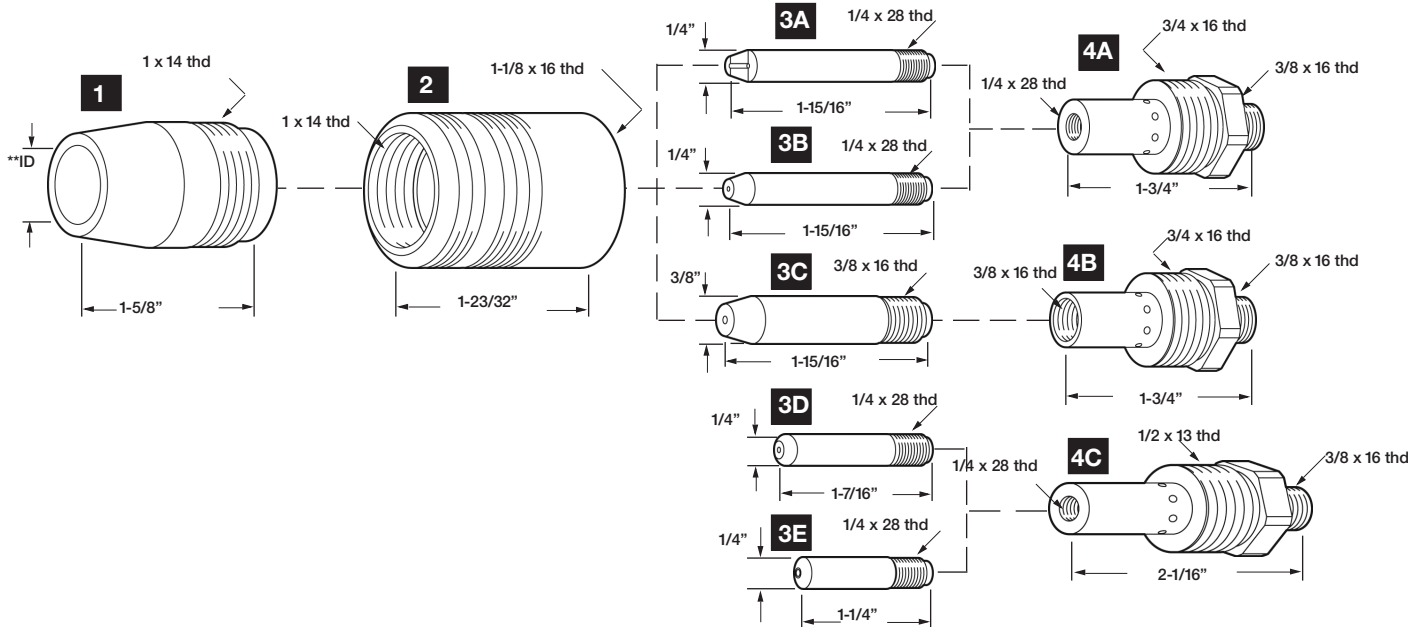
3. CONTACT TIPS (CONT.)

ID

	407839-4	Contact Tip	.035	(0.8mm)	.043
	407839-7	Contact Tip	.045	(1.2mm)	.055
E	407839-2	Contact Tip Short	.030	(0.6mm)	.037
	407839-5	Contact Tip Short	.035	(0.8mm)	.043
	407839-8	Contact Tip Short	.045	(1.2mm)	.055

4. GAS DIFFUSERS

A	407733	Gas Diffuser Standard
B	407735	Gas Diffuser H.D.
C	407846-2	Gas Diffuser for Adjustable Nozzles



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IGM SB395

1. NOZZLES

ID

60A200	Nozzle Water Cooled	.672	(17.1mm)
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2. CONTACT TIPS

ID

60A167	Contact Tip	(1.2mm)	.052
60A156	Contact Tip	(1.4mm)	.063
60A168-1.6	Contact Tip	(1.6mm)	.070
60A168-1.7	Contact Tip	(1.7mm)	.078
60A168-1.8	Contact Tip	(1.8mm)	.081
60A155	Contact Tip	(2.0mm)	.093

3. COUNTER NUTS

60A134	Counter Nut/Diffuser M16 x 1.5
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4. WATER DISTRIBUTION RINGS

60A064	Water Distribution Ring
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5. GUIDE RINGS

60A068	Guide Ring
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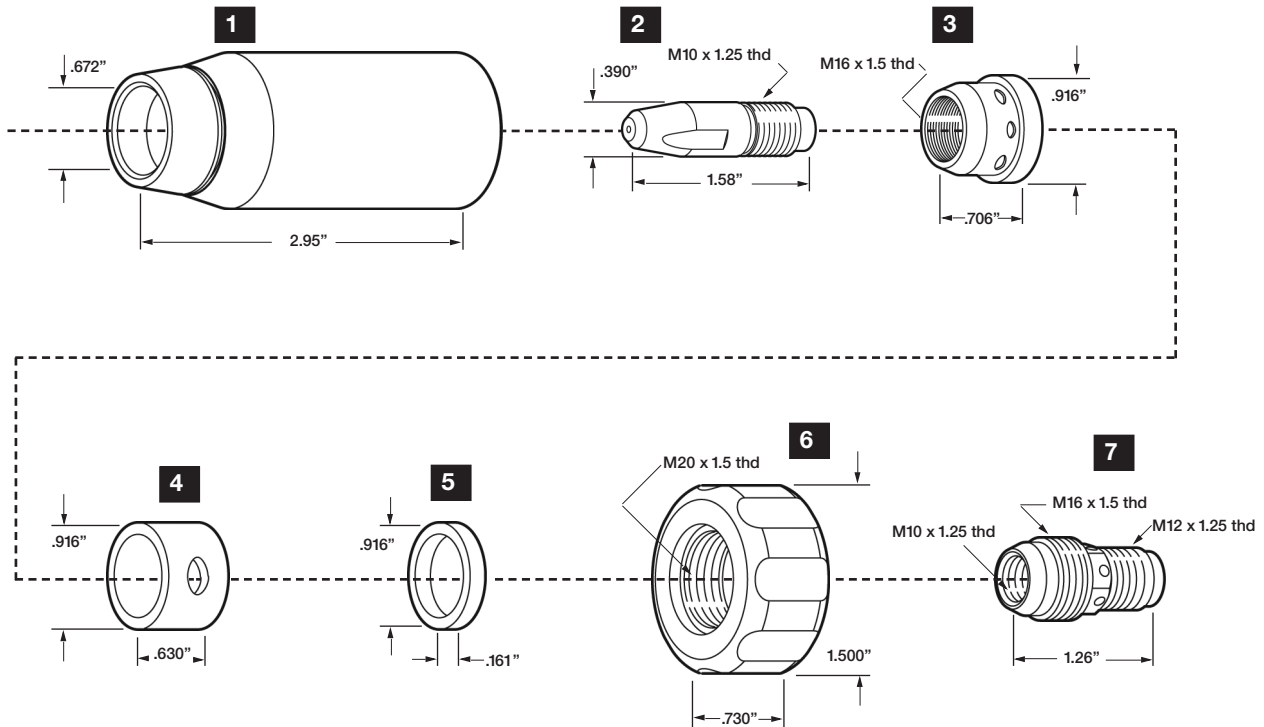
6. CLAMPING NUTS

60A066	Clamping Nut
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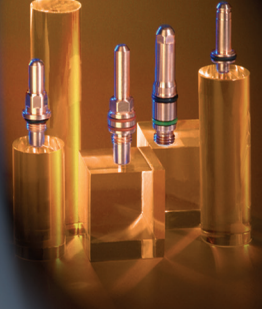
7. TIP ADAPTERS

60A578	Tip Adapter M16 x 1.5
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MIG



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168

IGM®

MIG

IGM SB399 & OTHER AVAILABLE IGM PARTS

1. NOZZLES ID

31A266 Nozzle 5/8" (15.9mm)

2. TIP ADAPTER/DIFFUSERS

60A582 Tip Adapter/Diffuser

3. GUIDE RINGS

60A593 Guide Ring

4. NOZZLE INSULATION

31A248 Nozzle Insulation

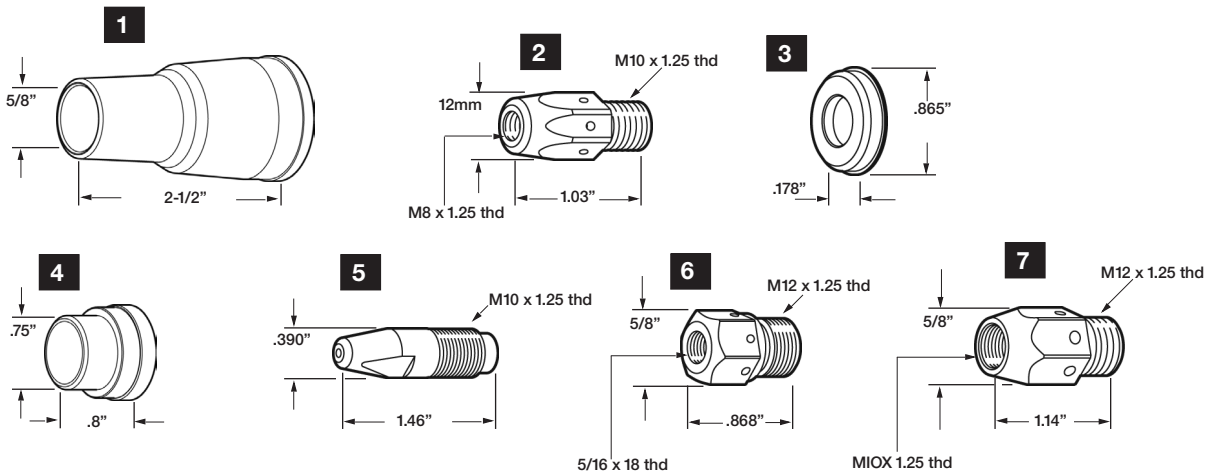
5. CONTACT TIPS ID

60A168-1.6S Contact Tip 35mm long 1.6mm .070

6. TIP ADAPTERS/DIFFUSERS

A 60A534 Tip Adapter/Diffuser
 B 60A156- Tip Adapter/Diffuser

*Liners are not shown.



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TROUBLESHOOTING

1 Poor Wire Feed:

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

2 Gun Overheating:

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

3 Weld Porosity:

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

4 Short Tip Life:

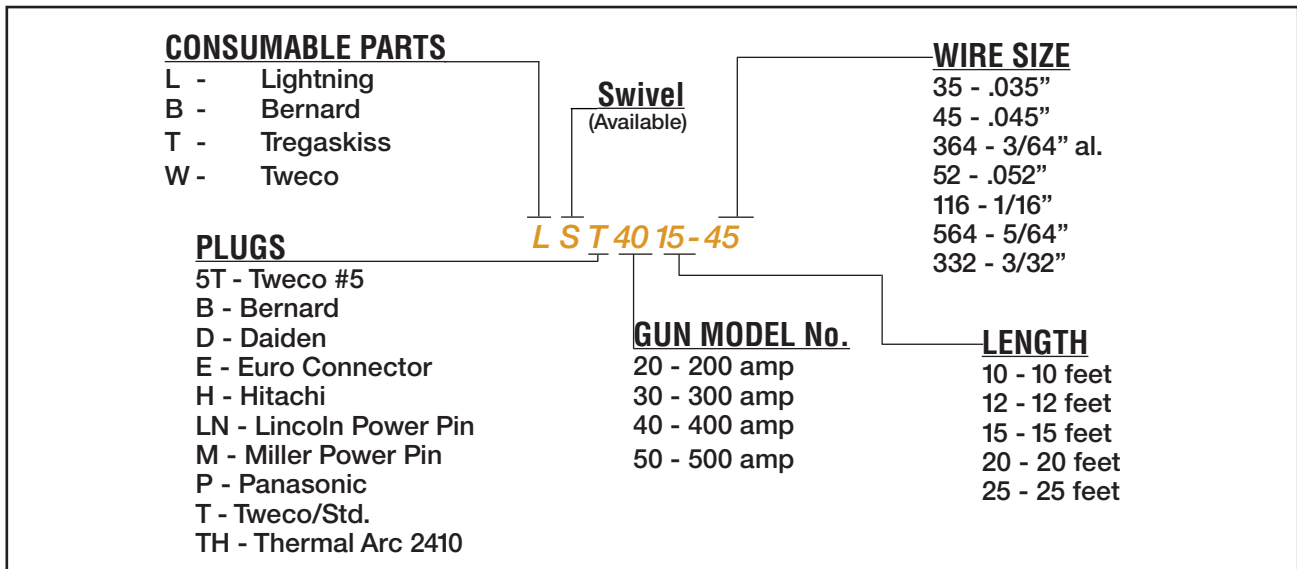
Drive rolls too tight resulting in scoring of welding wire. Welding wire dirty, rusty or too much cast. Wrong tip size. Torch over rated duty cycle.

AMPERAGE RATINGS (Duty Cycle)

Model #	100% Duty Cycle		60% Duty Cycle	
	Co ²	Mixed Gas	Co ²	Mixed Gas
200	200	150	300	200
300	300	200	400	300
400	400	300	525	400
500	500	350	650	500



PART NUMBERING SYSTEM



GUN STANDARDS CHART (Lightning)

Description	Tips	Nozzles	Tip Holder	Liner	Shock Washer	Retaine	Gooseneck
200 AMP	63-11xx	63-2150	63-3103	64-4xxx	63-6103	-	63-5160
300 AMP	63-11xx	63-2150	63-3103	64-4xxx	63-6202	-	63-5160
400 AMP	63-11xx	64-2562	63-3103	64-4xxx	63-6202	-	64-5160
500 AMP	63-11xx	65-2575	63-3103	64-4xxx	63-6202-HD	-	65-5160

* Heavy duty setup is available on request.

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170

LIGHTNING®

TROUBLESHOOTING

FEARURES & BENEFITS

The Lightning series of MIG guns have been engineered and built for high production, and maximum comfort. These highly durable guns are made with traditional ATTC quality.

Contact Tip -

The tip takes only 1/2 turn to lock. A second thread allows the welder to rotate the tip 180° for extended use after the tip is worn.

Handle -

The molded, ergonomically designed one piece handle is durable and comfortable to use. The handle is guaranteed for life under normal operating conditions.

Trigger & Switch -

The trigger is easy to pull, making the welder less fatigued. The switch is guaranteed for life under normal operating conditions.

Gooseneck -

The gooseneck is an aluminum jacketed, thick-walled copper tube designed to dissipate heat quickly, allowing it to withstand the daily abuse found in the typical welding environment.

Interchangeability -

The handles, spring guards, connector cones and cone nuts are interchangeable at both ends of the gun making service easier and reducing the number of parts to inventory.

THANK YOU

For selecting the American Torch Tip Lightning Gun. The Lightning Gun is for welding professionals who want durability and comfort while working in harsh welding environments. Lightning guns are available with Lightning, Tregaskiss, Bernard and Tweco consumables. This technical guide with instructions and illustrations is designed to make it easy to maintain your Lightning Gun. Please read and follow all the safety procedures. For technical support, please call the American Torch Tip Customer Service department at 1-800-371-8477 between 8:30 AM and 5:00 PM EST daily. American Torch Tip is committed to providing the best quality products and services. We are constantly working to improve our products and would appreciate hearing your suggestions.

GENERAL SAFETY

1. Disconnect all power before servicing or changing Lightning 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.





NOZZLES

Nozzle Sizes	Std. Cu.	HD Cu.
3/8" I.D. (1/8"recess)	63-2138	
1/2" I.D. (1/8"recess)	63-2150	65-2550
5/8" I.D. (1/8"recess)	63-2162	65-2562
3/4" I.D. (1/8"recess)	63-2175	65-2575
5/8" I.D. (1/4"recess)	64-2562	
3/4" I.D. (1/4"recess)	64-2575	

CONTACT TIPS

Wire Size	HD	HD Tprd	HD CZ
.030" (.8mm)	63-1130	63-1230	
.035" (.9mm)	63-1135	63-1235	63-1335
.040" (1.0mm)	63-1140	63-1240	
.045" (1.2mm)	63-1145	63-1245	63-1345
3/64" (1.2mm)Al.	63-1147	63-1247	
.052" (1.3mm)	63-1152	63-1252	63-1352
1/16" (1.6mm)	63-1162	63-1262	63-1362
5/64" (2.0mm)	63-1178		63-1378
3/32" (2.4mm)	63-1193		63-1393

LINERS

Wire Size	Length	Part#	OD
.023" (.6mm)	15'	64-4115	0.150
.035" (.9mm)	15'	62-4315	0.156
.035" (.9mm)	25'	62-4325	0.156
.045" (1.6mm)	15'	62-4515	0.156
.045" (1.6mm)	25'	62-4525	0.156
.030" (.8mm)	15'	64-4215	0.182
.035" (.9mm)	10'	64-4310	0.175
.035" (.9mm)	10'	64-4315	0.175
.035" (.9mm)	25'	64-4325	0.175
.035" (.9mm)	25'	64-4325	0.175
.035" (.9mm)al	15'	64-4415	0.189
.045" (1.6mm)	10'	64-4510	0.189
.045" (1.6mm)	15'	64-4515	0.189
.045" (1.6mm)	25'	64-4525	0.189
3/64" (1.6mm)	10'	64-4510	0.189
3/64" (1.6mm)	15'	64-4515	0.189
3/64" (1.6mm)	25'	64-4525	0.189
.52" (1.6mm)	10'	64-4510	0.189
.52" (1.6mm)	15'	64-4515	0.189
.52" (1.6mm)	25'	64-4525	0.189
1/16" (1.6mm)	10'	64-4510	0.189
1/16" (1.6mm)	15'	64-4515	0.189
1/16" (1.6mm)	25'	64-4525	0.189
3/64-1/16al	15'	64-4615	0.189
5/64-3/32	15' Flat	64-4715	0.189
5/64-3/32	25' Flat	64-4725	0.21
5/64 & 1/16"	FC 10'	64-4815	0.21

GOOSENECKS

Amperage	Angle	Part #
200/300A	45°	63-5145
200/300A	60°	63-5160
200/300A	180°	63-5100
400A	45°	64-5145
400A	60°	64-5160
400A	180°	64-5100
500A	45°	65-5145
500A	60°	65-5160
500A	180°	65-5100

GOOSENECKS (Swivel)

Amperage	Angle	Part#
300A (Ltg./Treg.)	60°	63-5160S
300A (Tweco)	60°	63-5260S
300A (Bernard)	45°	63-5345S
400A (Ltg./Treg.)	60°	64-5160S
400A (Tweco)	60°	64-5260S
400A (Bernard)	45°	64-5345S
500A (Ltg./Treg.)	60°	65-5160S
500A (Tweco)	60°	65-5260S
500A (Bernard)	45°	65-5345S

ASSEMBLIES (TWECO)

Amp	Length	Part#
200A	10'	ATW200-10
200A	12'	ATW200-12
200A	15'	ATW200-15
200A	20'	ATW200-20
200A	25'	ATW200-25
300A	10'	ATW300-10
300A	12'	ATW300-12
300A	15'	ATW300-15
300A	20'	ATW300-20
300A	25'	ATW300-25
400A	10'	ATW400-10
400A	12'	ATW400-12
400A	15'	ATW400-15
400A	20'	ATW400-20
400A	25'	ATW400-25
500A	10'	65-7110
500A	12'	65-7112
500A	15'	65-7115
500A	20'	65-7120
500A	25'	65-7125

ASSEMBLIES (LIGHTNING)

Amp	Length	Part#
200A	10'	62-7110
200A	12'	62-7112
200A	15'	62-7115
200A	20'	62-7120
200A	25'	62-7125
300A	10'	63-7110
300A	12'	63-7112
300A	15'	63-7115
300A	20'	63-7120
300A	25'	63-7125
400A	10'	64-7110
400A	12'	64-7112
400A	15'	64-7115
400A	20'	64-7120
400A	25'	64-7125
500A	10'	65-7110
500A	12'	65-7112
500A	15'	65-7115
500A	20'	65-7120
500A	25'	65-7125

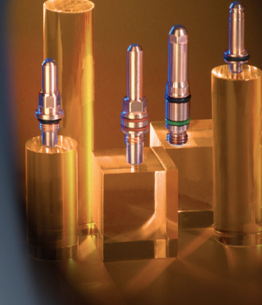
Unicable Bulk (Per foot)

Amp	Bulk	Part#
200A	Bulk	ATW200
300A	Bulk	ATW300
400A	Bulk	ATW400
500A	Bulk	65-7300

Unicable Bulk (Per foot)

Amp	Bulk	Part#
200A	Bulk	62-7300
300A	Bulk	63-7300
400A	Bulk	64-7300
500A	Bulk	65-7300

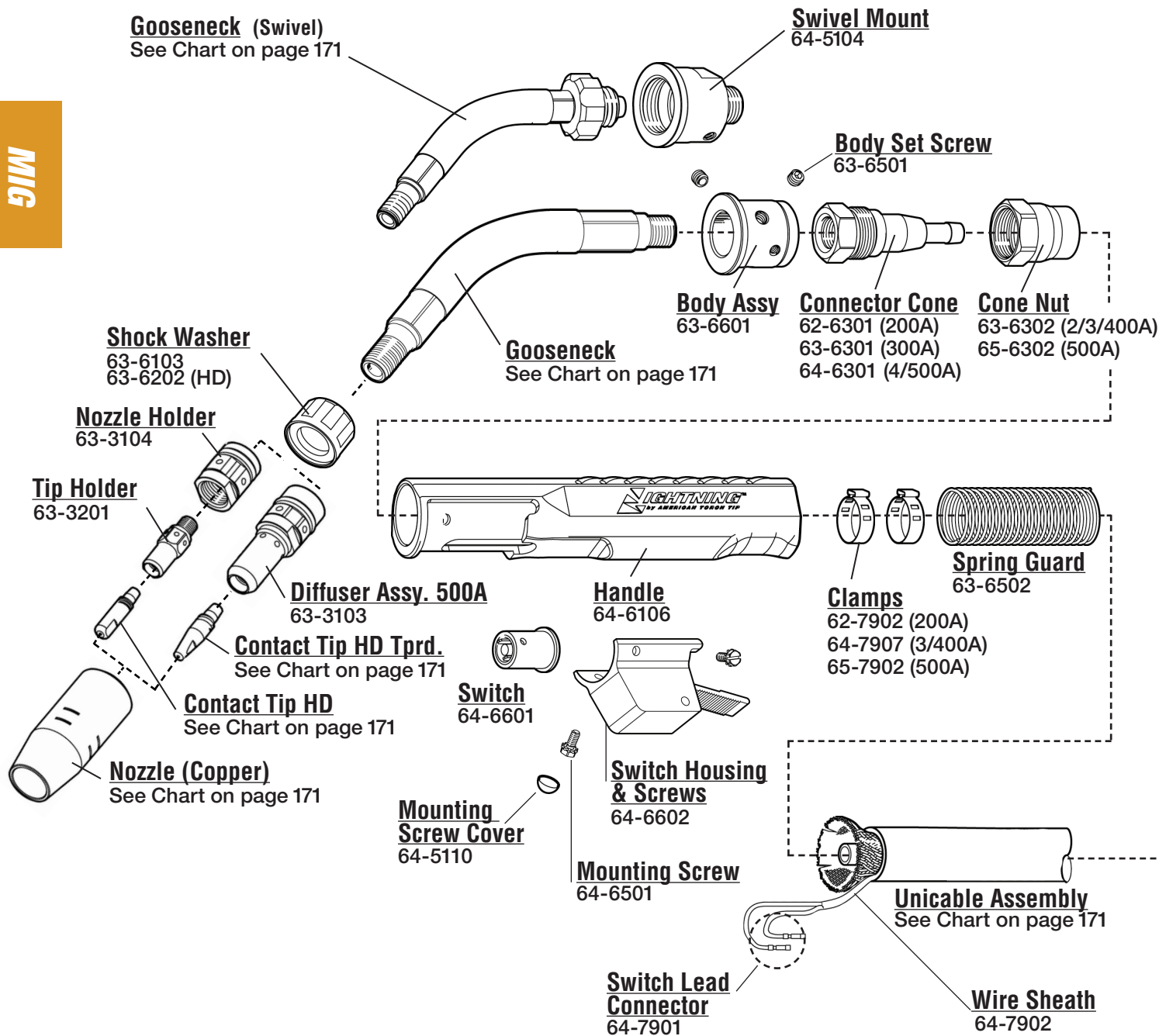
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172

LIGHTNING®

MIG



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Liner Set Screw
64-8203

Power Pin O-ring
64-8202

Liner O-ring
64-9001



Pin (Tweco #4)
64-8211

Liner Conduit Liner
See Chart on page 171

Pin (Miller)
64-8311

Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)

Pin (Lincoln)
64-8411

Cone Nut

63-6302 (2/3/400A)
65-6302 (500A)

Connector Cone

62-6301 (200A)
63-6301 (300A)
64-6301 (4/500A)

Power Pin Mount
64-8208

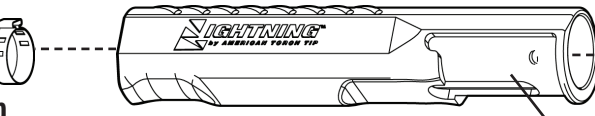
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See Chart on page 171

Spring Guard
63-6502

Clamp

62-7902 (200A)
64-7907 (3/400A)
65-7902 (500A)



Handle
64-6106

Housing & Screws
63-6101

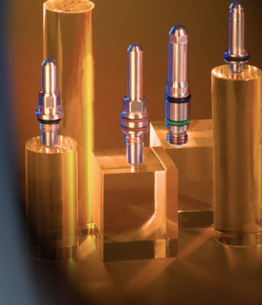
Screws
64-6501

Control Plug Connector
64-7909

Lead Extensions

64-8404 (Std.)
64-8306 (Miller)

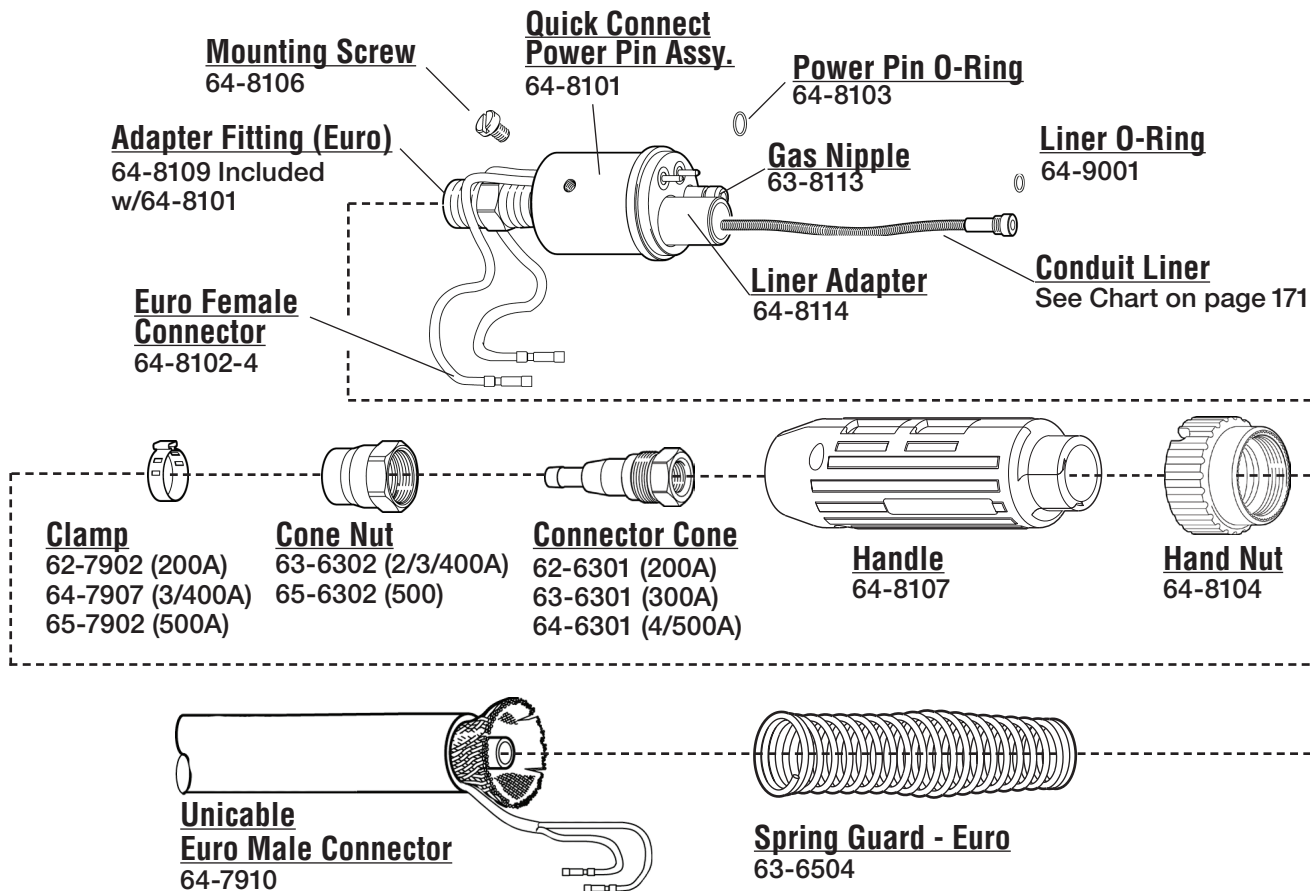
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174

LIGHTNING®

MIG

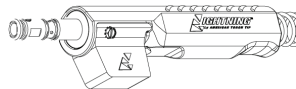


POWER PINS ASSEMBLY (Rear)

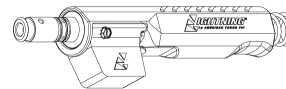
Bernard Power Pin
64-8501



Thermal Arc. Power Pin
64-8901



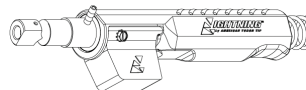
Tweco #5 Power Pin
64-8212



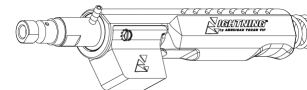
Euro Power Pin
64-8100



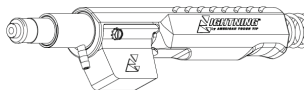
Hitachi Power Pin
64-8422



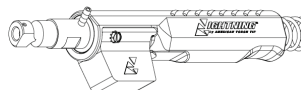
Daiden Power Pin
64-8602



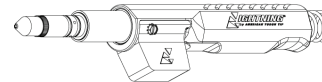
Lincoln Power Pin
64-8401



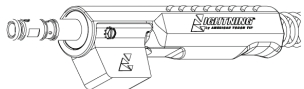
Panasonic Power Pin
64-8702



Miller Power Pin
64-8301 (.035 - 1/16)
64-8302 (5/64 - 3/32)



Std. Power Pin For Lightning, Tweco & Tregaskiss
64-8201



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REMOVAL AND REPLACEMENT

1.0 NOZZLE AND CONTACT TIP SYSTEMS

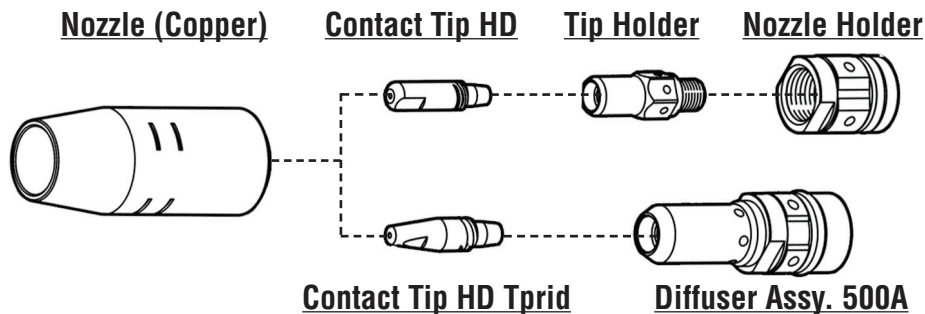
Pull slip-on nozzles off with a clockwise twisting motion.
When installing nozzle, exposed insulator should nest inside shock washer to assure concentricity.
Shock washers are positioned on the end of the gooseneck with the large insulated counterbore facing the nozzle.
Replace nozzle retainer with deep counterbore toward the gooseneck.
Tighten until retainer and shock washer are secure.

THREAD-ON (OPTIONAL FOR TWECO HD)

Thread-on nozzle system does not require nozzle retainer and cannot be used with heavy duty head.
Shockwasher must be in place.
External gooseneck thread can be cleaned with a 9/16"-18 die.

IMPORTANT

Shock washer must be in place before welding to maintain insulation of gooseneck. Be sure all parts are tightened will before welding.
When using the heavy duty retaining head make sure it is tightened with a 11/16" wrench to prevent overheating of contact tip.
To prevent scoring on heavy duty retaining head do not use pliers.



NOTE: Any of the above nozzle and contact tip systems can be used on the LIGHTNING GUN 200, 300, 400, or 500 AMP models. (See chart page 3)

1.1 LINER REPLACEMENT

TOOLS REQUIRED

- Vise
- 5/64 Allen wrench
- Lineman pliers

STEP 1

1. Remove nozzle, contact tip and tip holder from gooseneck. (Not shown)
2. With gun straightened, loosen liner set screw on quick connect power pin at back end of gun using a 5/64" Allen wrench. (See Figure 1)
3. Using pliers, grip liner and remove from gun.
4. Install new liner by feeding through gun. Use short strokes to avoid kinking. Use clockwise rotation as needed.
5. Be sure o-rings on liner head seats into inside bore of power pin.
6. Tighten set screw on power pin to secure liner. Do not overtighten.

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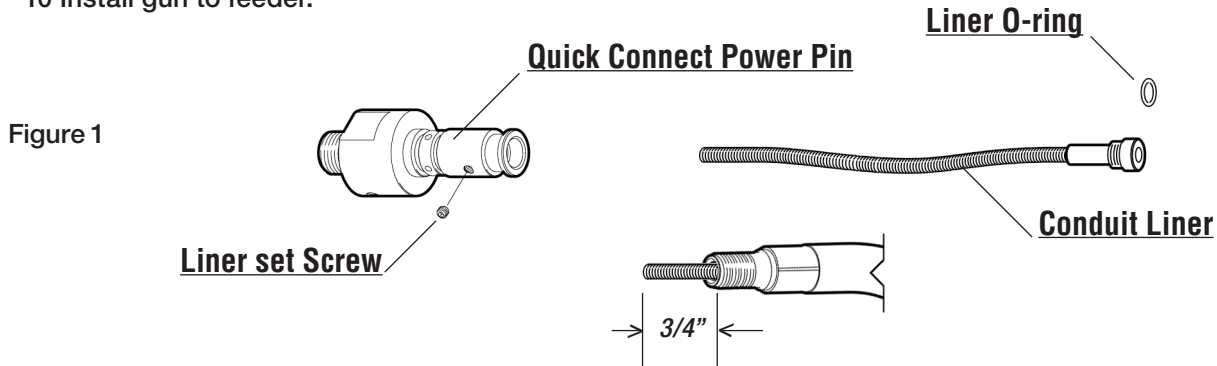
176

LIGHTNING®

MIG

1.1 LINER REPLACEMENT

- 7 Using pliers, trim liner to extend to 3/4" (20mm) from end of gooseneck.
- 8 Remove any burrs on the inside and outside of liner to ensure smooth wire flow and proper seating inside diffuser.
- 9 Reinstall tip holder, contact tip and nozzle onto gooseneck.
Note: Liner should be visible through gas holes of tip holder.
- 10 Install gun to feeder.

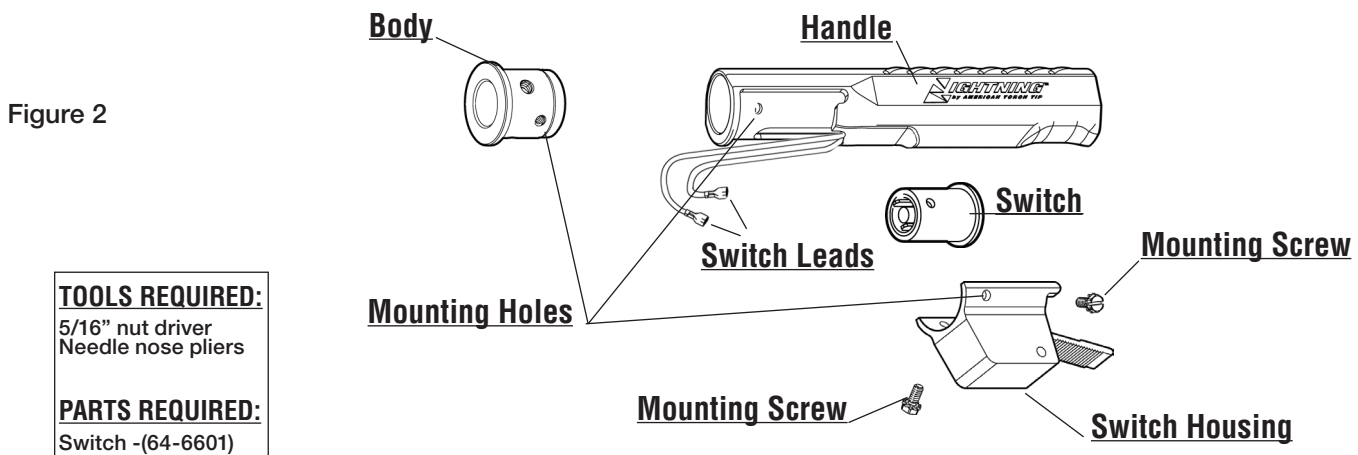


* Trim dimension may change depending on front end consumables being used.

1.2 SWITCH REPLACEMENT

Note: Turn off power to gun.

- 1 Remove two (2) mounting screws using a 5/16" nut driver.
- 2 Remove switch housing from handle.
- 3 Carefully remove defective switch from switch housing by pulling on switch leads.
- 4 Remove switch lead connectors with needle nose pliers.
- 5 Install switch lead connectors firmly onto new switch using needle nose pliers.
- 6 Install new switch into switch housing by depressing switch plunger and nesting into housing.
Note: Use caution to ensure switch leads are parallel with the tab and are not pinched.
- 7 Align mounting holes in switch housing with handle and threaded holes in body.
Insert mounting screws and turn screws to engage threads.
- 8 Both mounting screws must be engaged before tightening with 5/16" nut driver.
Note: For complete list of part numbers see page 3.



TOOLS REQUIRED:
5/16" nut driver
Needle nose pliers

PARTS REQUIRED:
Switch -(64-6601)

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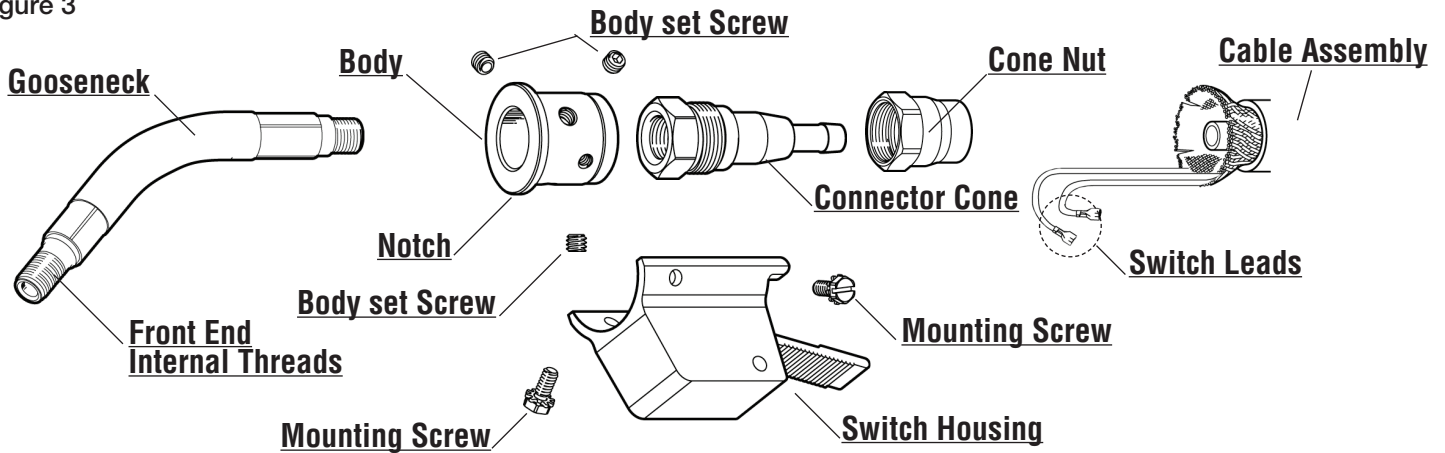
1.3 GOOSENECK REPLACEMENT

Note: Turn off power to gun.

- 1 Place gooseneck in vise. (See Figure 4)
- 2 Install body to new gooseneck at back end. Body will stop when fully inserted. Back end gooseneck threads will extend approximately 1/2" from body. Internal threads in gooseneck gooseneck should be at front end. There are no internal threads at back end. (See Figure 3)
- 3 With curve in gooseneck facing upwards, line up gooseneck with notch on body.
- 4 With notch still aligned with gooseneck, tighten (Figure 3) body set screws to secure body to gooseneck using a 1/8" Allen wrench.
- 5 Remove gooseneck from vise and thread gooseneck tightly into connector cone by hand.
- 6 Place gooseneck in vise and tighten connector cone using a 7/8" wrench to within 1/8" of body.
Note: Allow cone nut and cable assembly to rotate.
- 7 Slide handle forward until it stops on shoulder of body.
- 8 Align mounting holes in switch housing with handle and threaded hole in body. Insert mounting screws and turn screws to engage threads.
- 9 Both mounting screws must be engaged before tightening with 5/16" nut driver.



Figure 3



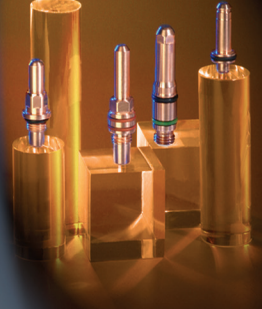
TOOLS REQUIRED:

- Vise
- 5/16" Nut driver
- 7/8" Wrench
- 1/8" Allen wrench

PARTS REQUIRED:

See parts list

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178

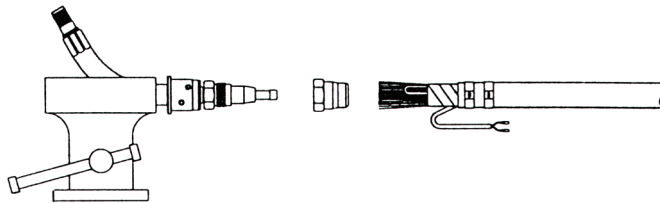
LIGHTNING®

1.4 UNICABLE REPAIR / REPLACEMENT

STEP 2

- 1 Using the cable cutter, cut cable to the desired length past the damaged area. Discard the damaged cable.
- 2 Slide (2) outer clamps over uncable.
- 3 Using the utility knife, cut outer jacket of uncable 6" from ends and remove. Take care not to slice into the uncable copper strands or switch leads.

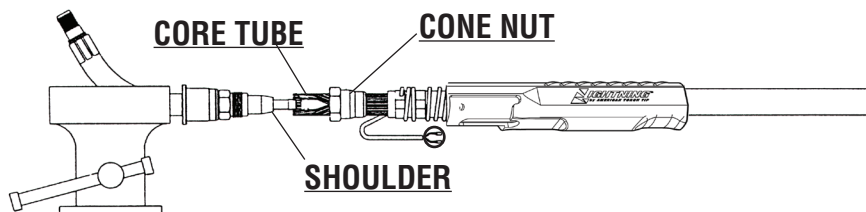
Figure 5



STEP 3

- 4 Carefully pull back (3) switch leads away from cable assembly and temporarily tape to outer cable.
- 5 Cut copper strands and core tube 3-1/2" from black outer cable cut. Keep copper strands straight and not frayed. (Copper strands and core tube will measure 3-1/2" from original cut on outer cable cover.)
- 6 Carefully spread the copper strands to expose the core tube of the uncable. Using the cable cutter, trim 3/4" from inner tube. (Tube will be 3/4" shorter than copper strands.) Keep copper strands straight as possible and not frayed.
- 7 Carefully realign copper strands around the core tube.
- 8 Slide Cone Nut over copper strands. *Use twisting motion to avoid fraying copper strands. Do not allow switch leads inside the cone nut.*

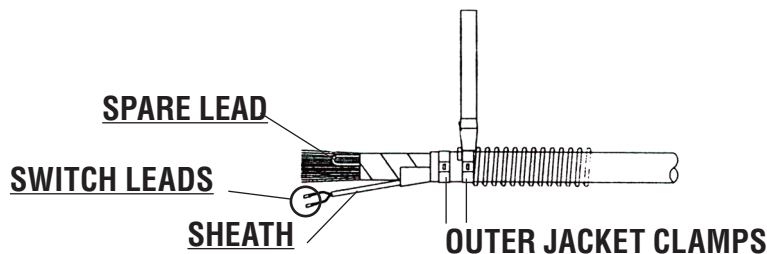
Figure 6



STEP 4

- 9 Carefully insert the cable assembly onto Connector Cone. Push core tube of uncable to shoulder on the connector cone. Spread cable strands evenly around Connector Cone and draw Cone Nut to engage thread on cone nut (by hand). Use caution not to cross threads. (See Figure 6)

Figure 7





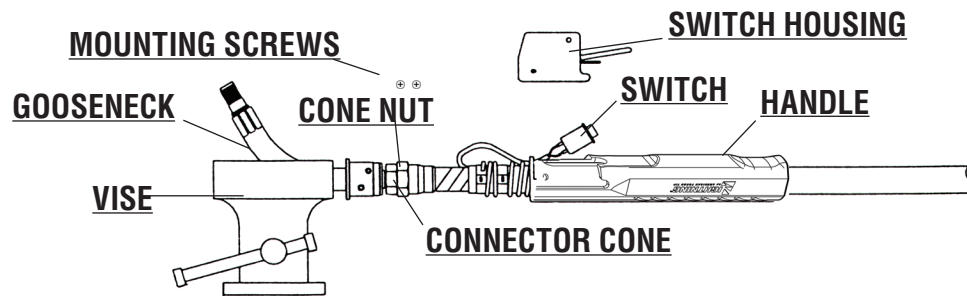
1.4 UNICABLE REPAIR / REPLACEMENT

STEP 5

- 10 Tighten Cone nut to Connector Cone. When tightening, allow unicable assembly to rotate. When fully tightened, there must be a gap between the end of the Cone nut and the lip on the Connector Cone. (See Figure 8)
- 11 With the Connector and nut secure, remove the tape from the (3) switch lead wires and fold "red" wire onto the copper strands and tape to the copper strands.
- 12 Insert the switch lead insulator (64-7902) over the "white and black" switch wires.
- 13 Tape the entire exposed copper strand area. Overlap taping onto the outer cable cover by approximately 1" from initial cut. Do not tape the entire switch leads and insulator; allow them to move freely. (Approx 1/2" distance is taped).
- 14 Slide the first outer clamp forward over the taped area to within 1/4" of the original cut on the outer cable. Align with gooseneck and crimp using the Oetiker crimping tool. Slide the second outer clamp within 1/2" of first clamp and crimp using the Oetiker crimping tool. Outer clamps must be aligned. (See Figure 7)
- 15 Slide the Spring Guard (63-6502) forward and rotate over outer clamps. Use a flat head screwdriver to pry into position and, using a twisting motion, screw the spring guard over clamps.
- 16 Carefully slide handle (64-6106) forward and slip switch leads through slot in handle.
- 17 Strip 3/16" of insulation on the ends of the "white and black" switch leads and install (2) switch connectors (64-7901) using the crimping tool.
- 18 Attach the switch to the leads and insert into switch housing.
- 19 Line up mounting screws into body through housing and handle and secure using (2) mounting screws. Remove from vise.

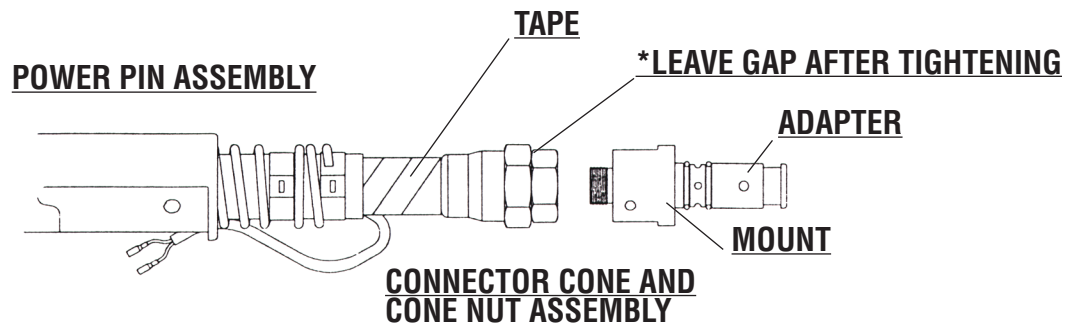


Figure 8

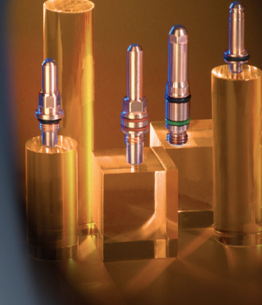


29 Follow identical procedure on rear of gun. (See Figure 9)

Figure 9



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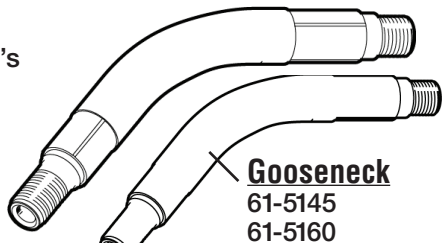
180

LIGHTNING®

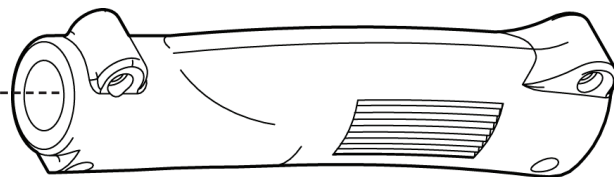
BANTAM 180 AMP LIGHT WEIGHT GUN

Gooseneck

See Chart for Part #'s



Gooseneck
61-5145
61-5160



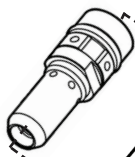
Handle
61-6101

Diffuser (Tweco®)

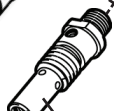
51
51-23



Shock Washer
63-6103
63-6202 (HD)

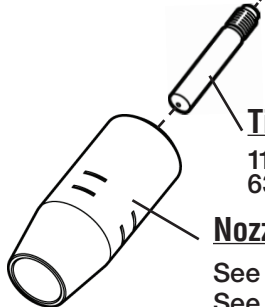


Diffuser (Lightning)
63-3103



Tip

11 Series See Chart # 1 (Tweco®)
63 Series See Chart # 1A (Lightning)



Nozzle

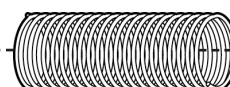
See Chart # 2 (Tweco®)
See Chart # 2A (Lightning)



Switch
61-6601



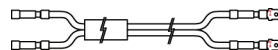
Unicable
61-7300



Spring Guard
63-6502 (3/400A)



Clamps
62-7902



Lead Extensions
64-8404 STD
64-8306 MILLER

1. CONTACT TIPS

ID

11-23	Contact Tip	.023	(0.6mm)
11-30	Contact Tip	.030	(0.8mm)
11-35	Contact Tip	.035	(0.9mm)
11-40	Contact Tip	.040	(1.0mm)
11-45	Contact Tip	.045	(1.2mm)
11H-35	Contact Tip H.D.	.035	(0.9mm)
11H-45	Contact Tip H.D.	.045	(1.2mm)
11AH-364	Contact Tip H.D.	3/64" Al.	(1.2mm)
11T-23	Contact Tip H.D. Tapered	.023	(0.6mm)
11T-30	Contact Tip H.D. Tapered	.030	(0.8mm)
11T-35	Contact Tip H.D. Tapered	.035	(0.9mm)
11T-40	Contact Tip H.D. Tapered	.040	(1.0mm)
11T-45	Contact Tip H.D. Tapered	.045	(1.2mm)

2. NOZZLES

ID

21-37	Nozzle Insul. 1/8" Recess	3/8"	(9.5mm)
21-50	Nozzle Insul. 1/8" Recess	1/2"	(12.7mm)
21-62	Nozzle Insul. 1/8" Recess	5/8"	(15.9mm)
21-37-F	Nozzle Insulated Flush	3/8"	(9.5mm)
21-50-F	Nozzle Insulated Flush	1/2"	(12.7mm)
21-62-F	Nozzle Insulated Flush	5/8"	(15.9mm)
21T-37	Nozzle Tapered 1/8" Recess	3/8"	(9.5mm)

1A. CONTACT TIPS (LIGHTNING)

ID

63-1130	Contact Tip	.030"	(0.8mm)
63-1135	Contact Tip	.035"	(0.9mm)
63-1140	Contact Tip	.040"	(1.0mm)
631145	Contact Tip	.045"	(1.2mm)
63-1147	Contact Tip	3/64"	(1.2mm) Al.
631152	Contact Tip	.052"	(1.3mm)
63-1162	Contact Tip	1/16"	(1.6mm)

2A. NOZZLES (LIGHTNING)

ID

63-2138	1/8" Recess	3/8"
63-2150	1/8" Recess	1/2"
63-2162	1/8" Recess	5/8"
63-2175	1/8" Recess	3/4"

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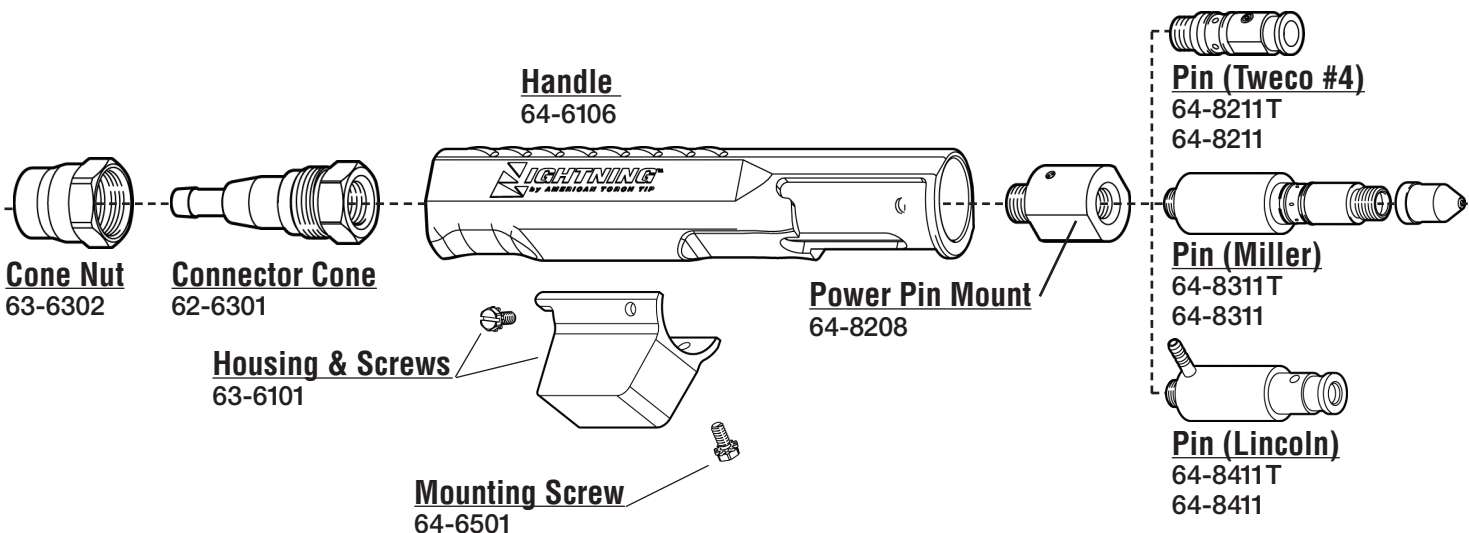
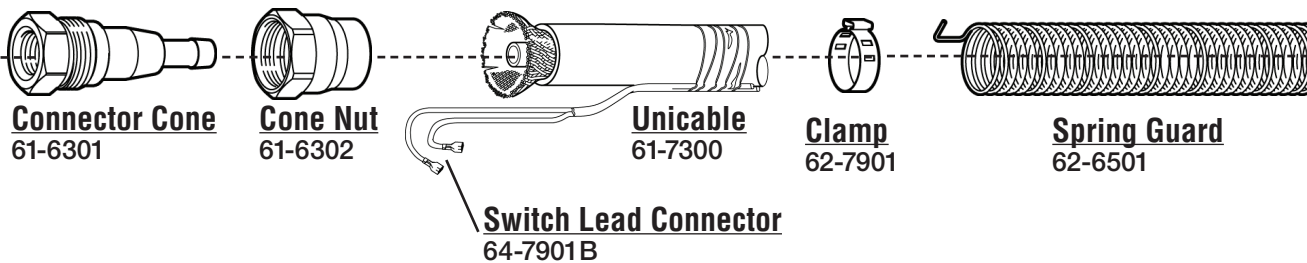
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181

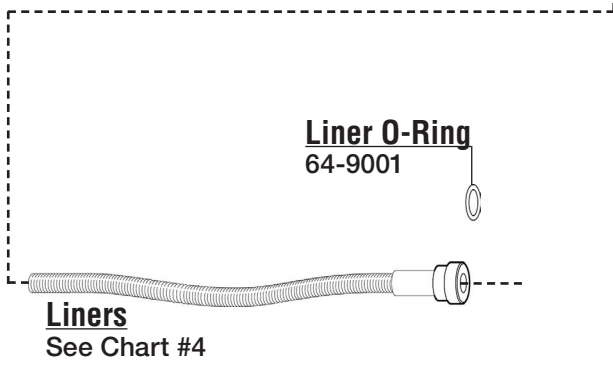
LIGHTNING®

BANTAM 180 AMP LIGHT WEIGHT GUN



4 LINERS		I.D.	O.D.
64-4115	15'	.023" (.6mm)	0.150
62-4315	15'	.035" (.9mm)	0.156
62-4325	25'	.035" (.9mm)	0.156
62-4515	15'	.045" (1.6mm)	0.156
62-4525	25'	.045" (1.6mm)	0.156

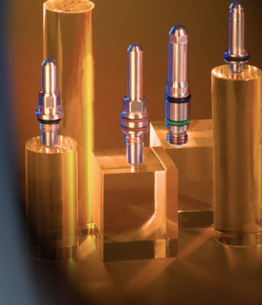
4A. LINERS (TWECO)		I.D.	O.D.
42-23-12	15'	.023" (.6mm)	0.150
42-3035-15	15'	.035" (.9mm)	0.156
42-3035-25	25'	.035" (.9mm)	0.156
42-4045-15	15'	.045" (1.6mm)	0.156
42-4045-25	25'	.045" (1.6mm)	0.156
42N-3545-15	25' (Nylon)	.045" (1.6mm)	0.156



Please note: Power Pins are also available for Bernard EZ Feed (64-8501), Tweco #5 (64-8204), Hitachi (64-8426), Daiden (64-8601), Panasonic (64-8701) and Thermal Arc 2410 (64-8901).

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182

LIGHTNING®

200, 300, 400 AND 500 AMP

MIG

1. NOZZLES - INSULATED ID

A	63-2138	Nozzle Std. Flush	3/8"	(09.5mm)
	63-2662	Nozzle 1/8" Stick-Out	5/8"	(15.9mm)
B	63-2150	Nozzle Std. 1/8" Tip Recess	1/2"	(12.7mm)
	63-2162	Nozzle Std. 1/8" Tip Recess	5/8"	(15.9mm)
	63-2175	Nozzle Std. 1/8" Tip Recess	3/4"	(19.1mm)
C	64-2562	Nozzle H.D. Cu 1/4" Tip Rec.	5/8"	(15.9mm)
	64-2575	Nozzle H.D. Cu 1/4" Tip Rec.	3/4"	(19.1mm)
D	65-2550	Nozzle H.D. Cu 1/8" Tip Rec.	1/2"	(12.7mm)
	65-2562	Nozzle H.D. Cu 1/8" Tip Rec.	5/8"	(15.9mm)
	65-2575	Nozzle H.D. Cu 1/8" Tip Rec.	3/4"	(19.1mm)
	64-2950	Nozzle Bottleneck 1/8 STKT	1/2"	(12.7mm)
	63-2950	Nozzle Bottleneck 1/8 REC	1/2"	(12.7mm)
	65-2662	Nozzle HD 1/8 STKT	5/8"	(15.9mm)
	65-2362	Nozzle HD Brass 1/8 STKT	5/8"	(15.9mm)

2. CONTACT TIPS ID

A	63-1123	Contact Tip Std.	.023	(0.6mm)	.028
	63-1130	Contact Tip Std.	.030	(0.8mm)	.037
	63-1135	Contact Tip Std.	.035	(0.9mm)	.043
	63-1140	Contact Tip Std.	.040	(1.0mm)	.048
	63-1145	Contact Tip Std.	.045	(1.2mm)	.055
	63-1152	Contact Tip Std.	.052	(1.3mm)	.063
	63-1178	Contact Tip Std.	5/64	(2.0mm)	.093
	63-1193	Contact Tip Std.	3/32	(2.4mm)	.110
	63-1162	Contact Tip Std.	1/16"	(1.6mm)	.073
B	63-1230	Contact Tip Tapered	.030	(0.8mm)	.037
	63-1235	Contact Tip Tapered	.035	(0.9mm)	.043
	63-1245	Contact Tip Tapered	.045	(1.2mm)	.055
	63-1252	Contact Tip Tapered	.052	(1.3mm)	.063
C	63-1335	Contact Tip Long Life	.035	(0.9mm)	.043
	63-1345	Contact Tip Long Life	.045	(1.2mm)	.050
	63-1352	Contact Tip Long Life	.052	(1.3mm)	.059
	63-1362	Contact Tip Long Life	1/16"	(1.6mm)	.073
	63-1378	Contact Tip Long Life	5/64"	(2.0mm)	.093
	63-1394	Contact Tip Long Life	3/32"	(2.4mm)	.110
D	65-1130	Contact Tip HD	.030		.037
	65-1135	Contact Tip HD	.035		.043
	65-1145	Contact Tip HD	.045		.055
	65-1162	Contact Tip HD	1/16		.067
	65-1178	Contact Tip HD	5/64		.093
	65-1193	Contact Tip HD	3/32		.110
	65-11120	Contact Tip HD	7/64		.120
	65-11125	Contact Tip HD	1/8		.136
	65-1235	Contact Tip HD	.035 tprd		.043
	65-1245	Contact Tip HD	.045 tprd		.055
	65-1252	Contact Tip HD	.052 tprd		.063
	65-1335	Contact Tip HD CuCR	.035		.040

2. CONTACT TIPS (CONTINUED) ID

65-1345	Contact Tip HD CuCR	.045	.050
65-1352	Contact Tip HD CuCR	.052	.060
65-1362	Contact Tip HD CuCR	1/16	.067

3. GAS DIFFUSERS

A	63-3201	Diffuser for Standard Contact Tips
---	---------	------------------------------------

4. RETAINING HEADS (USE W/ H.D. NOZZLES)

A	63-3103	Retaining Head H.D.
B	63-3103-2	Retaining Head H.D. Robotic

5. NOZZLE RETAINERS

63-3104	Nozzle Retainer
---------	-----------------

6. SHOCK WASHERS

A	63-6202	Shock Washer H.D.
B	63-6103	Shock Washer Plastic

7. GOOSENECKS*

62-5160	Gooseneck	60°	200Amp
63-5160	Gooseneck	60°	300Amp
64-5145	Gooseneck	45°	400Amp
64-5160	Gooseneck	60°	400Amp
65-5160	Gooseneck	60°	500Amp

**Goosenecks available for Tweco®, Tregaskiss® and Bernard® consumables, to fit the Lightning Gun.

LINERS

I.D. O.D.

64-4310	Liner	10'	.035	White	.073	.175
64-4315	Liner	15'	.035	White	.073	.175
64-4325	Liner	25'	.035	White	.073	.175
64-4506	Liner	6"	.045-1/16"	Red	.089	.189
64-4510	Liner	10'	.045-1/16"	Red	.089	.189
64-4515	Liner	15'	.045-1/16"	Red	.089	.189
64-4525	Liner	25'	.045-1/16"	Red	.089	.189
64-4715	Liner	15'	3/32"	Black	.118	.189
64-4725	Liner	25'	3/32"	Black	.118	.189

* Liners are not shown.

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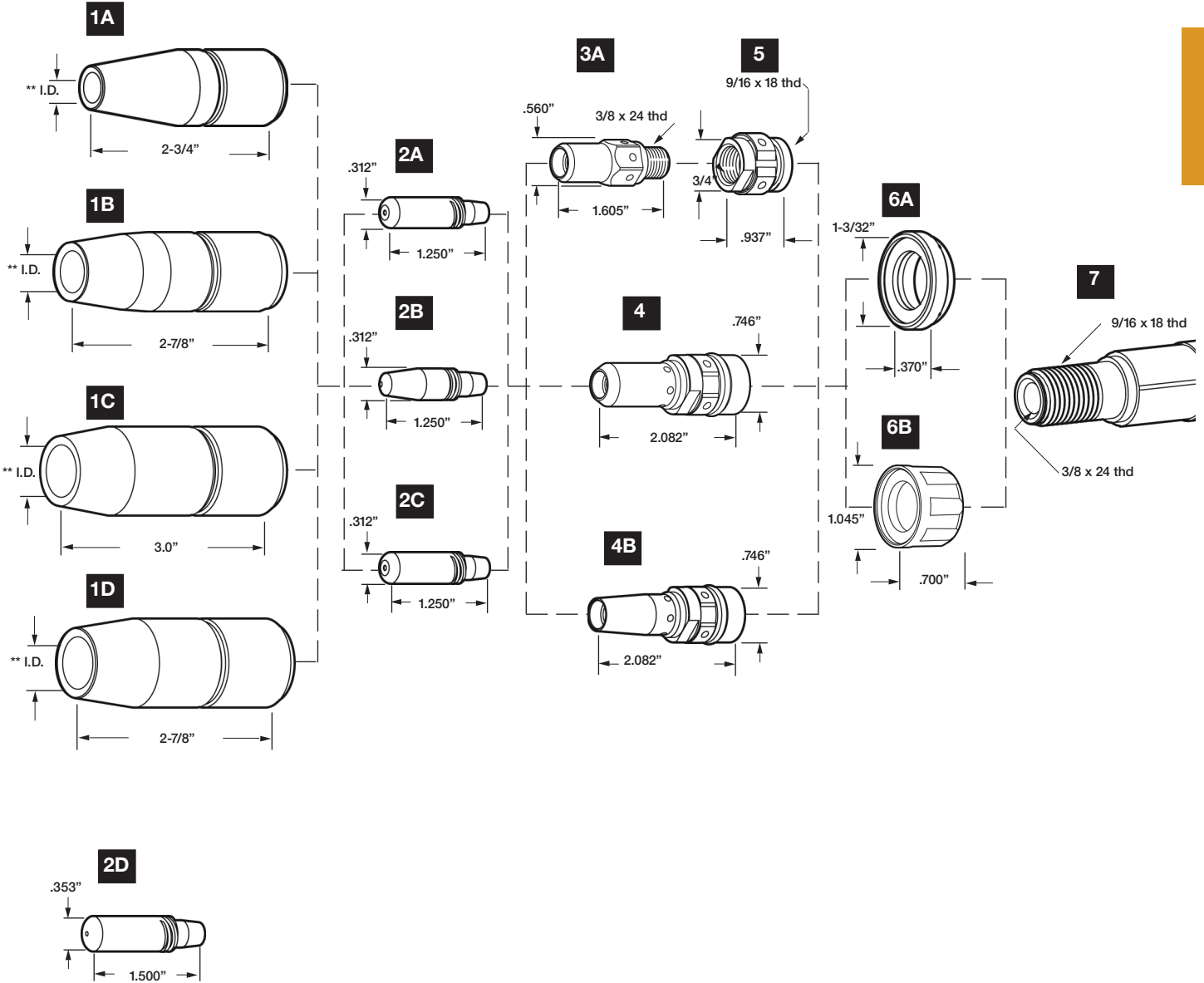
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183

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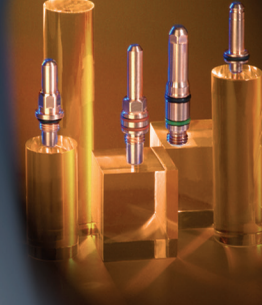
200, 300, 400 AND 500 AMP



NOTE:
 65-11XX SERIES TIPS ARE ONLY TO BE USED WITH SPECIAL LIGHTNING DIFFUSERS, WHICH ARE NOT SHOWN HERE. PLEASE CALL FOR INQUIRIES.

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184

LINCOLN®

MAGNUM 200 / MAGNUM 250SP

1. NOZZLES

I.D.

M16093-2	Nozzle Adjustable	1/2"	(12.7mm)
M16093-1	Nozzle Adjustable	5/8"	(15.9mm)

2. INSULATORS

S19417-1	Insulator for Adjustable Nozzles
----------	----------------------------------

3. CONTACT TIPS

I.D.

A	S19391-6	Contact Tip.023	(0.6mm)	.028
	S19391-7	Contact Tip.030	(0.8mm)	.037
	S19391-1	Contact Tip.035	(0.9mm)	.043
	S19391-2	Contact Tip.045	(1.2mm)	.055
B	S19392-1	Contact Tip H.D..035	(0.9mm)	.043
	S19392-6	Contact Tip H.D..040	(1.0mm)	.048
	S19392-2	Contact Tip H.D..045	(1.2mm)	.053

3. CONTACT TIPS (CONT.)

I.D.

C	S19393-5	Contact Tip Tap.	.025 (0.6mm)	.028
	S19393-6	Contact Tip Tap.	.030 (0.8mm)	.037
	S19393-1	Contact Tip Tap.	.035 (0.9mm)	.043
	S19393-7	Contact Tip Tap.	.040 (1.0mm)	.048
	S19393-2	Contact Tip Tap.	.045 (1.2mm)	.055
D	S19397-44	Contact Tip Notch.	.030 (0.8mm)	.037
	S19397-45	Contact Tip Notch.	.035 (0.9mm)	.043
	S19397-46	Contact Tip Notch.	3/64" (1.2mm)	.059

4. GAS DIFFUSERS

S19418-2	Gas Diffuser .025-.030
S19418-1	Gas Diffuser .035-.045

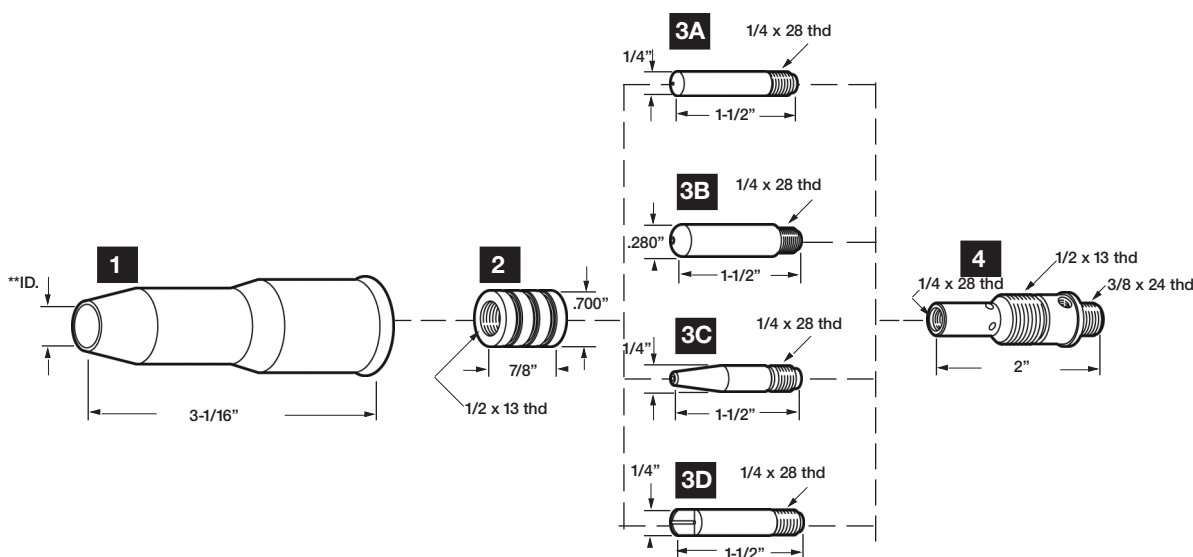
5. LINERS

I.D.

O.D.

M16087-2	Liner Assy. 15'	.023	.036	.123
M16087-1	Liner Assy. 15'	.040-.045	.059	.156
M16107-1	Liner Nylon 15'	3/64"	.066	.148

* Liners are not shown.



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



185

LINCOLN®

MAGNUM 100L

1. NOZZLES

ID

M16294 Nozzle, Fixed 1/2" (12.7mm)

2. CONTACT TIPS

ID

S19726-1	Contact Tip	.023	(0.6mm)	.028
S19726-2	Contact Tip	.030	(0.8mm)	.037
S19726-3	Contact Tip	.035	(0.9mm)	.043
S19726-4	Contact Tip	.045	(1.2mm)	.055

3. GAS DIFFUSERS

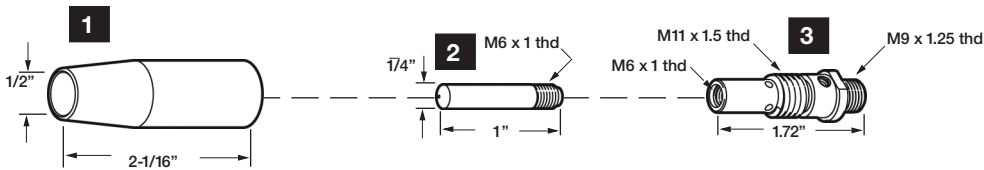
S19728 Gas Diffuser

4. LINER ASSEMBLIES

ID OD

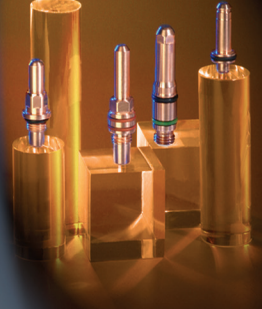
M16291-1	Liner Assy. 15'	.045	.063	.148
M16291-2	Liner Assy. 15'	.023	.036	.123

MIG



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186

LINCOLN®

MAGNUM 300 / MAGNUM 400

MIG

1. NOZZLES

I.D.

A	M16082-1	Nozzle Adjustable	5/8"	(15.9mm)
	M16082-2	Nozzle Adjustable	1/2"	(12.7mm)
B	M16082-3	Nozzle Adj. Recessed	5/8"	(15.9mm)
	M16082-4	Nozzle Adj. Recessed	1/2"	(12.7mm)
C	M16830-1+	Nozzle Coarse Thread	5/8"	(15.9mm)
	M16830-2+	Nozzle Coarse Thread	3/4"	(19.1mm)
D	M16830-1	Nozzle Insulated	3/8"	(9.5mm)
	M16830-2	Nozzle Insulated	1/2"	(12.7mm)
	M16830-3	Nozzle Insulated	5/8"	(15.9mm)
	M16830-4	Nozzle Insulated	3/4"	(19.1mm)
E	M16831-1	Nozzle Insulated Flush	3/8"	(9.5mm)
	M16831-2	Nozzle Insulated Flush	1/2"	(12.7mm)
	M16831-3	Nozzle Insulated Flush	5/8"	(15.9mm)
	M16831-4	Nozzle Insulated Flush	3/4"	(19.1mm)

2. INSULATORS

A	S19394-1	Insulator Slip-On Nozzles
B	M16937-1	Insulator Coarse- Thread Nozzles

3. CONTACT TIPS

I.D.

A	S19391-6	Contact Tip	.025	(0.6mm)	.028
	S19391-7	Contact Tip	.030	(0.8mm)	.037
	S19391-1	Contact Tip	.035	(0.9mm)	.043
	S19391-8	Contact Tip	.040	(1.0mm)	.048
	S19391-2	Contact Tip	.045	(1.2mm)	.055
	S19391-3	Contact Tip	.052	(1.3mm)	.063
	S19391-4	Contact Tip	1/16"	(1.6mm)	.073
	S19391-5	Contact Tip	5/64"	(2.0mm)	.093

3. CONTACT TIPS (CONT.)

I.D.

B	S19392-1	Contact Tip H.D.	.035	(0.9mm)	.043
	S19392-6	Contact Tip H.D.	.040	(1.0mm)	.048
	S19392-2*	Contact Tip H.D.	.045	(1.2mm)	.055
	S19392-3*	Contact Tip H.D.	.052	(1.3mm)	.063
	S19392-4*	Contact Tip H.D.	1/16"	(1.6mm)	.073
	S19392-5*	Contact Tip H.D.	5/64"	(2.0mm)	.093
C	S19393-5	Contact Tip Tapered	.025	(0.6mm)	.028
	S19393-6	Contact Tip Tapered	.030	(0.8mm)	.037
	S19393-1	Contact Tip Tapered	.035	(0.9mm)	.043
	S19393-7	Contact Tip Tapered	.040	(1.0mm)	.048
	S19393-2	Contact Tip Tapered	.045	(1.2mm)	.055
	S19393-3	Contact Tip Tapered	.052	(1.3mm)	.063
	S19393-4	Contact Tip Tapered	1/16"	(1.6mm)	.073

4. GAS DIFFUSERS

S19395-1	Gas Diffuser
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LINER

I.D. O.D.

M16083-1	Liner Assy. 15'	.035-.045	.066	.188
M16083-2	Liner Assy. 15'	1/16"	.076	.188
M16083-3	Liner Assy. 15'	5/64"	.098	.188
M16101-7	Liner Assy. 25'	.035-.045	.066	.188
M16101-8	Liner Assy. 25'	1/16"	.076	.188
M16101-9	Liner Assy. 25'	5/64"	.098	.188

*Liners are not shown

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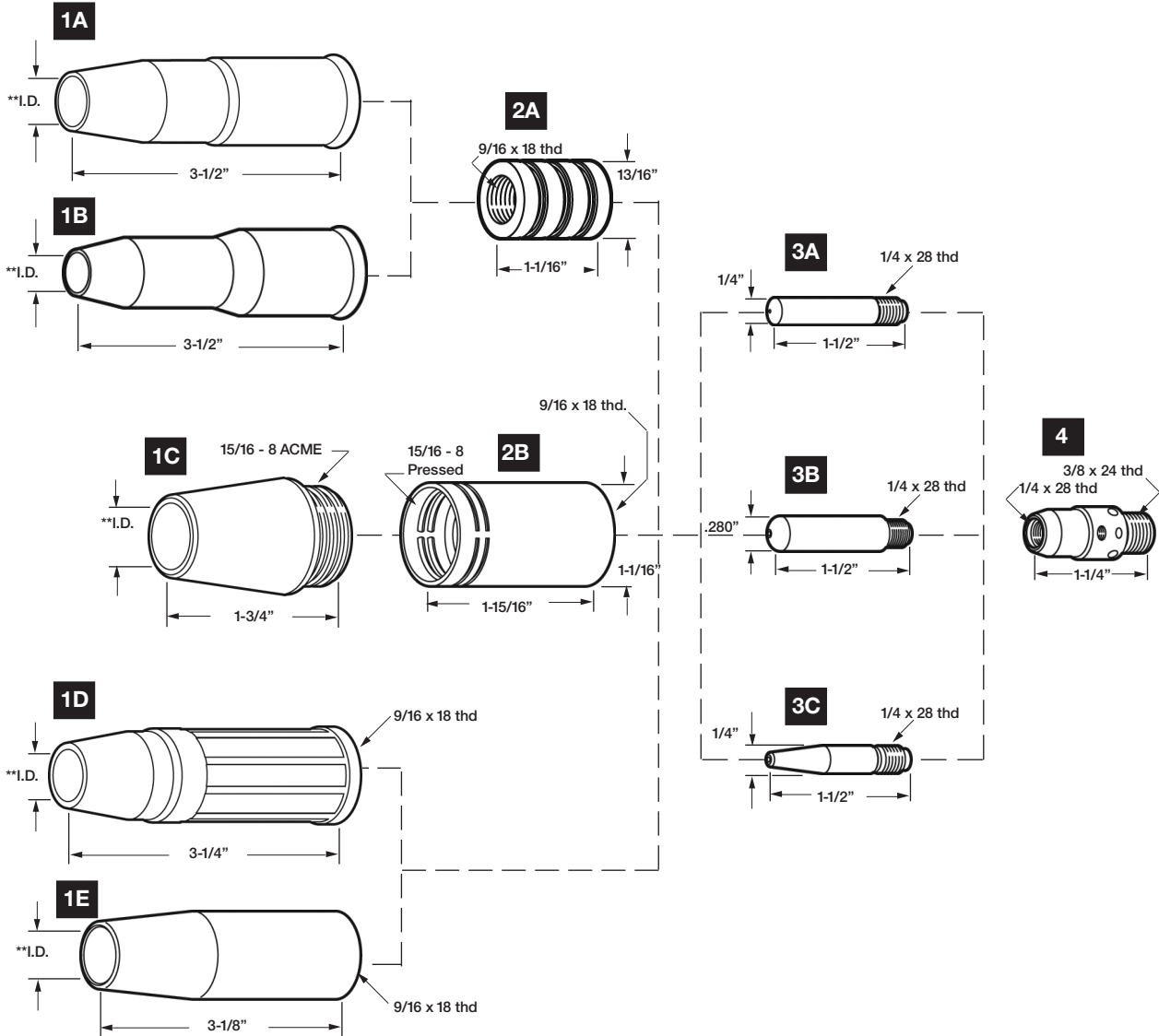
YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



187

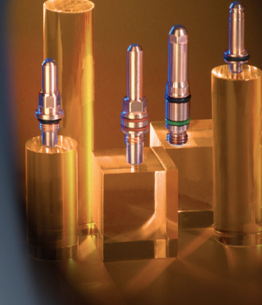
LINCOLN®

MAGNUM 300 / MAGNUM 400



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188

LINCOLN®

FULL AUTO SUB-ARC / SEMI AUTO SUB-ARC**1. CONTACT TIPS SUBMERGED ARC I.D.**

S10125-1/16	Tip Sub-Arc	1/16"	(1.6mm)	.070
S10125-5/64	Tip Sub-Arc	5/64"	(2.0mm)	.093
S10125-3/32	Tip Sub-Arc	3/32"	(2.4mm)	.101
S10125-7/64	Tip Sub-Arc	7/64"	(2.8mm)	.120
S10125-1/8	Tip Sub-Arc	1/8"	(3.2mm)	.136
S10125-5/32	Tip Sub-Arc	5/32"	(4.0mm)	.166
S10125-3/16	Tip Sub-Arc	3/16"	(4.8mm)	.199
S10125-7/32	Tip Sub-Arc	7/32"	(5.6mm)	.288

2. CONTACT TIPS**(USE ON K233, K114)****I.D.**

T12236-1/16	Contact Tip	1/16"	(1.6mm)	.073
T12236-.068	Contact Tip	.068	(1.7mm)	.078
T12236-.072	Contact Tip	.072	(1.8mm)	.082
T12236-5/64	Contact Tip	5/64"	(2.0mm)	.093
T12236-3/32	Contact Tip	3/32"	(2.4mm)	.101
T12236-7/64	Contact Tip	7/64"	(2.8mm)	.120
T12236-.120	Contact Tip	.120	(3.0mm)	.129
T12236-1/8	Contact Tip	1/8"	(3.2mm)	.136

3. CONTACT TIPS (K129, K231, K391, K239, K112, K113-2)**I.D.**

T14050-.045	Contact Tip	.045	(1.2mm)	.055
T14050-1/16	Contact Tip	1/16"	(1.6mm)	.073
T14050-.068	Contact Tip	.068	(1.7mm)	.078
T14050-.072	Contact Tip	.072	(1.8mm)	.081
T14050-5/64	Contact Tip	5/64"	(2.0mm)	.093
T14050-3/32	Contact Tip	3/32"	(2.4mm)	.110
T14050-7/64	Contact Tip	7/64"	(2.8mm)	.120

4. CONTACT TIPS (USE ON K113)**I.D.**

T12011-.035	Contact Tip	.035	(0.9mm)	.043
T12011-.045	Contact Tip	.045	(1.2mm)	.055
T12011-1/16	Contact Tip	1/16"	(1.6mm)	.073
T12011-.068	Contact Tip	.068	(1.7mm)	.078
T12011-5/64	Contact Tip	5/64"	(2.0mm)	.093
T12011-3/32	Contact Tip	3/32"	(2.4mm)	.110
T12011-7/64	Contact Tip	7/64"	(2.8mm)	.120

5. NOZZLES (USE K231, K391)

T10575	Flux Nozzle
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6. TWIN ARC TIP HOLDERS (USE ON K129)

S15954	Twin Arc Tip Holder Bent for T14050 Tips
S15954-S	Twin Arc Tip Holder Straight

7. TIP ADAPTERS (USE ON K391)

S16844	Tip Adapter for T14050 Tips
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8. EXTENSIONS

S10157-1	Sub-Arc Extension	1" Long
S10157-1-1/2	Sub-Arc Extension	1-1/2" Long
S10157-2	Sub-Arc Extension	2" Long
S10157-2-1/2	Sub-Arc Extension	2-1/2" Long
S10157-3	Sub-Arc Extension	3" Long
S10157-4	Sub-Arc Extension	4" Long
S10157-5	Sub-Arc Extension	5" Long
S10157-6	Sub-Arc Extension	6" Long
S10157-7-1/2	Sub-Arc Extension	7-1/2" Long
S10157-9	Sub-Arc Extension	9" Long

9. NOZZLE BODY ASSEMBLIES

S10157	Nozzle Body Assembly
--------	----------------------

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AMERICAN TORCH TIP ATTC

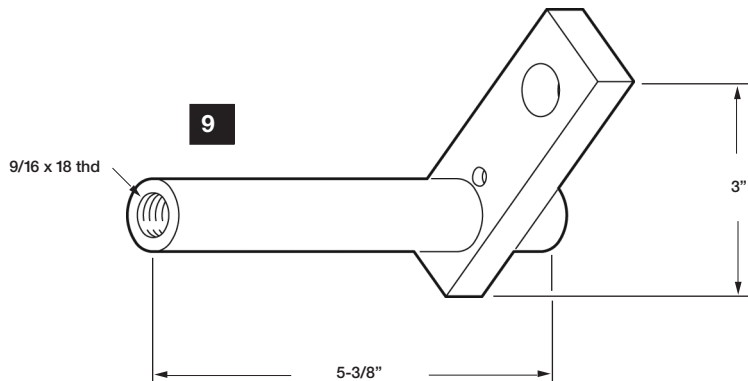
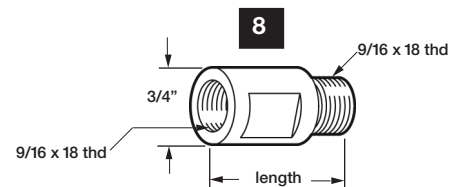
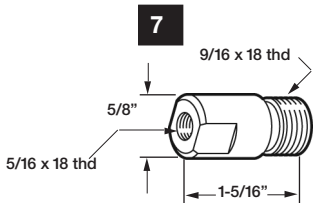
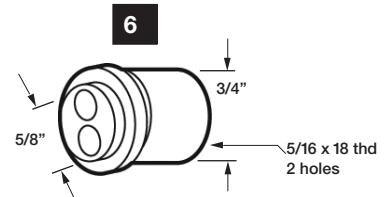
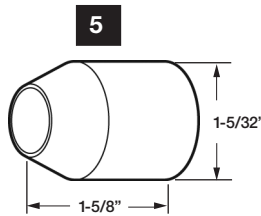
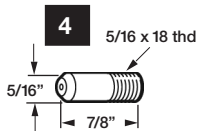
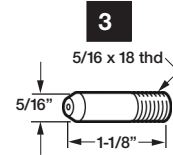
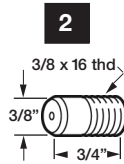
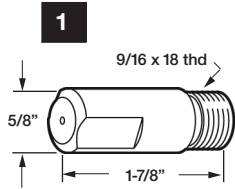
MIG
MIG DIVISION OF AMERICAN TORCH TIP

189

LINCOLN®

FULL AUTO SUB-ARC / SEMI AUTO SUB-ARC

MIG



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MIG
MIG DIVISION OF AMERICAN TORCH TIP



190

LINCOLN®

MAGNUM SPOOL-GUN

1. NOZZLES

I.D.

M16082-1	Nozzle, Slip-On	5/8"	(15.9mm)
M16082-2	Nozzle, Slip-On	1/2"	(12.7mm)

2. INSULATOR

S19394-1	Insulator
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3. CONTACT TIPS

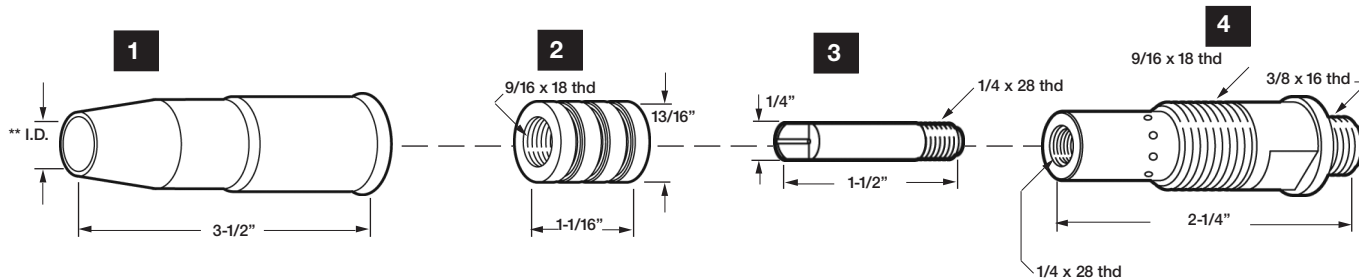
I.D.

S18697-52	Contact Tip	.023 (0.6mm)	.028
S18697-44	Contact Tip Notched	.030 (0.8mm)	.037
S18697-45	Contact Tip Notched	.035 (0.9mm)	.043
S18697-46	Contact Tip Notched	3/64" (1.2mm)	.059

4. GAS DIFFUSER

S18697-47	Gas Diffuser
-----------	--------------

MIG



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1. NOZZLES

I.D.

A	S13358	Nozzle, Insulator	5/16" (8.0mm)
B	S12691-1	Nozzle, Insul. 2-3/4" Stick-out	5/16" (8.0mm)

2. CONTACT TIPS

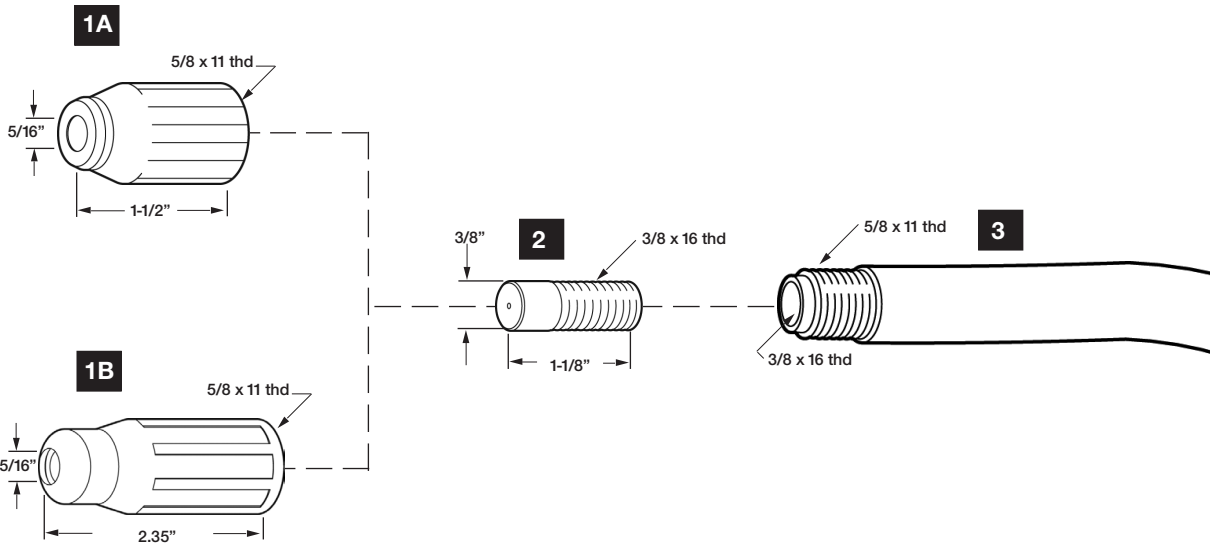
I.D.

T14157-.035	Contact Tip	.035	(0.9mm)	.043
T14157-.045	Contact Tip	.045	(1.2mm)	.055
T14157-1/16	Contact Tip	1/16"	(1.6mm)	.073
T14157-.068	Contact Tip	.068	(1.7mm)	.078
T14157-.072	Contact Tip	.072	(1.8mm)	.081
T14157-5/64	Contact Tip	5/64"	(2.0mm)	.093
T14157-3/32	Contact Tip	3/32"	(2.4mm)	.110
T14157-7/64	Contact Tip	7/64"	(2.8mm)	.120
T14157-.120	Contact Tip	.120	(3.0mm)	.129
T14157-1/8	Contact Tip	1/8"	(3.2mm)	.136

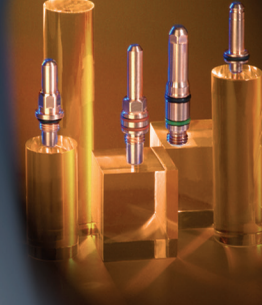
FLUX-CORE INNERSHIELD / K115, K116

3. GOOSENECKS

M11510	3/32Gooseneck	3/32"	45°
M11510	.120Gooseneck	7/64"-1/8"	45°
M14027-45	5/64Gooseneck	1/16"-5/64"	45°
M11474	3/32Gooseneck	3/32"	82°
M11474	.120Gooseneck	7/64"-1/8"	82°
M14027-82	5/64Gooseneck	1/16"-5/64"	82°



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192

LINCOLN®

FLUX-CORE INNERSHIELD / K136, K264, K345, K355, K361

1. NOZZLES

I.D.

A	S15900	Nozzle, Insulated	3/8" (9.5mm)
B	T12313	Thread Protector	
C	S17217-1	Nozzle, Insulated 2" Stick out	3/8" (9.5mm)
D	T12315	Nozzle, Insul. 2-3/4" Stick out	3/8" (9.5mm)

2. CONTACT TIPS

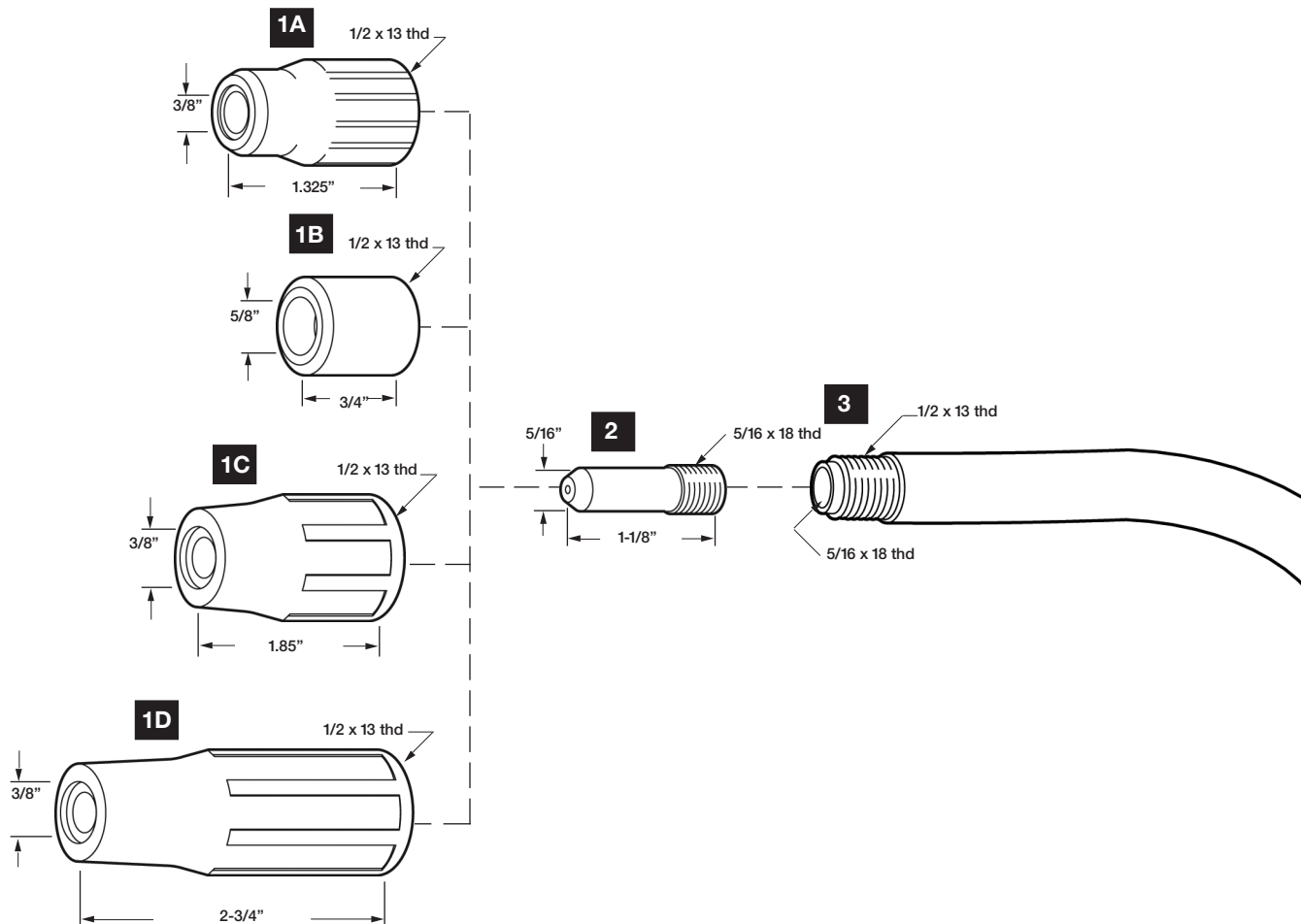
I.D.

T14050-.045	Contact Tip	.045 (1.2mm)	.055
T14050-1/16	Contact Tip	1/16" (1.6mm)	.073
T14050-.068	Contact Tip	.068 (1.7mm)	.078
T14050-.072	Contact Tip	.072 (1.8mm)	.081
T14050-5/64	Contact Tip	5/64" (2.0mm)	.093
T14050-3/32	Contact Tip	3/32" (2.4mm)	.110
T14050-7/64	Contact Tip	7/64" (2.8mm)	.120

3. GOOSENECKS

M11476	Gooseneck	6"	50°
M13304-6	Gooseneck	6"	30°
M13304-12	Gooseneck	12"	30°
M13304-12-50	Gooseneck	12"	50°
M14188	Gooseneck	6"	90°

MIG



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



193

MILLER®

GA-17C

1. NOZZLES

I.D.

128-535 Nozzle Insulated 1/2" (12.7mm)

2. CONTACT TIPS

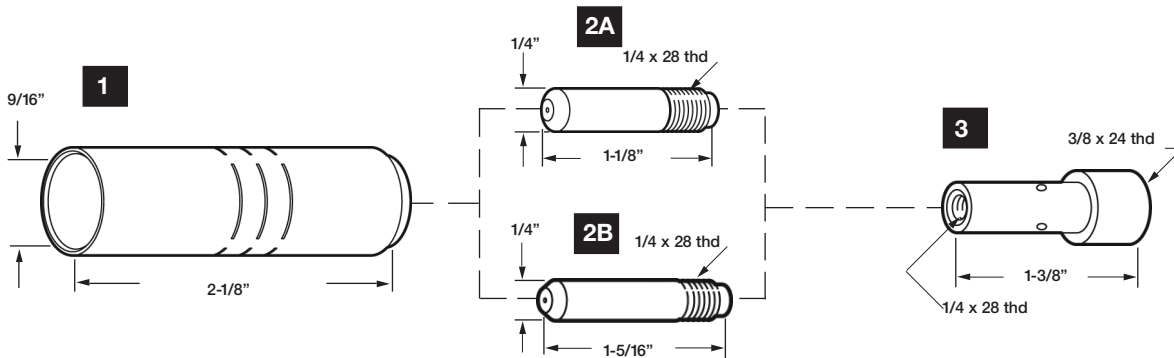
I.D.

A	087-299	Contact Tip Std.	.025 (0.6mm)	.028
	000-067	Contact Tip Std.	.030 (0.8mm)	.037
	000-068	Contact Tip Std.	.035 (0.9mm)	.043
B	087-300	Contact Tip Long	.025 (0.6mm)	.028
	071-825	Contact Tip Long	.030 (0.8mm)	.037
	054-202	Contact Tip Long	.035 (0.9mm)	.043

3. TIP ADAPTERS

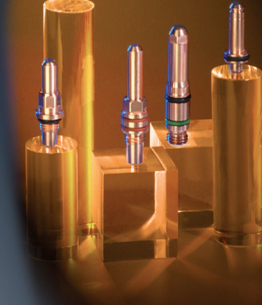
118-267 Tip Adapter for .023-.025 Wire

MIG



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194

MILLER®

GA-20C

1. NOZZLES

I.D.

A	049-098	Nozzle	7/16"	(11.1mm)
	049-099	Nozzle	1/2"	(12.7mm)
B	049-929	Nozzle	5/8"	(15.9mm)

2. INSULATORS

082-241	Nozzle Insulator
---------	------------------

3. CONTACT TIPS

I.D.

A	087-299	Contact Tip Std.*	.025	(0.6mm)	.028
	000-067	Contact Tip Std.*	.030	(0.8mm)	.037
	000-068	Contact Tip Std.*	.035	(0.9mm)	.043
	000-069	Contact Tip Std.*	.045	(1.2mm)	.055
B	087-300	Contact Tip Long*	.025	(0.6mm)	.028
	071-825	Contact Tip Long*	.030	(0.8mm)	.037
	054-202	Contact Tip Long*	.035	(0.9mm)	.043
	054-201	Contact Tip Long*	.045	(1.2mm)	.055

4. CONTACT TIP ADAPTERS

146-426	Tip Adapter	.023-.025	(0.6mm)
146-425	Tip Adapter	.030-.045	(0.8-1.2mm)

5. NOZZLE RETAINING NUTS

082-063	Retaining Nut
---------	---------------

LINERS

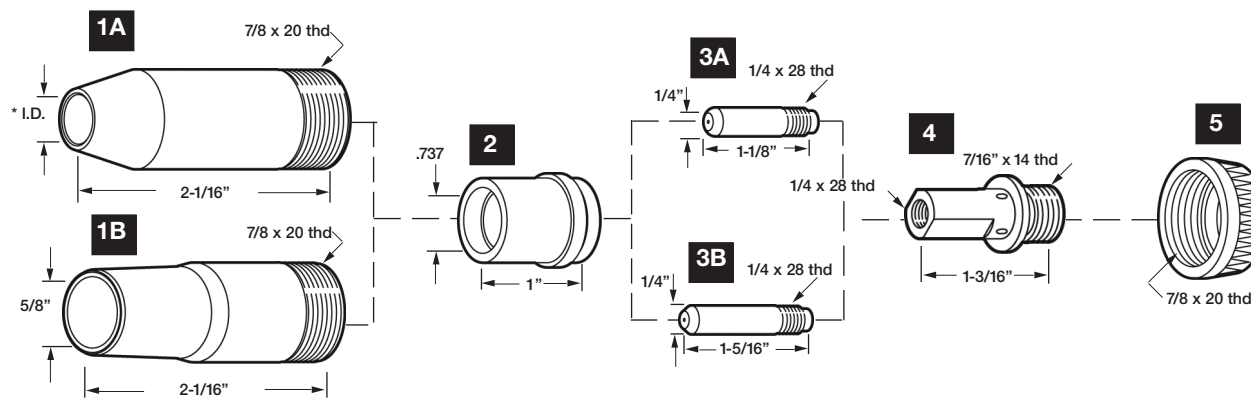
I.D. O.D.

083-885	Liner	.030-.035	(0.8-0.9mm)	.052	.163
083-891	Liner	.035-.045	(0.9-1.2mm)	.064	.173

*Liners are not shown

*Standard Contact Tips are flush with Nozzle.

*Long Contact Tips project 1/16" outside Nozzle.



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GA-21C/CM

1. NOZZLES I.D.

A	149-147	Nozzle	7/16"	(11.1mm)
	149-148	Nozzle	1/2"	(12.7mm)
B	149-146	Nozzle	5/8"	(15.9mm)

2. INSULATORS

082-241	Insulator
---------	-----------

3. CONTACT TIPS I.D.

A	087-299	Contact Tip Std.*	.025	(0.6mm)	.028
	000-067	Contact Tip Std.*	.030	(0.8mm)	.037
	000-068	Contact Tip Std.*	.035	(0.9mm)	.043
	000-069	Contact Tip Std.*	.045	(1.2mm)	.055
B	087-300	Contact Tip Long*	.025	(0.6mm)	.028
	071-825	Contact Tip Long*	.030	(0.8mm)	.037
	054-202	Contact Tip Long*	.035	(0.9mm)	.043
	054-201	Contact Tip Long*	.045	(1.2mm)	.055
C	149-150	Contact Tip Long*	.025	(0.6mm)	.028
	149-149	Contact Tip Long*	.030	(0.8mm)	.037
	054-183	Contact Tip Long*	.035	(0.9mm)	.043
	054-157	Contact Tip Long*	.045	(1.2mm)	.055

4. CONTACT TIP ADAPTERS

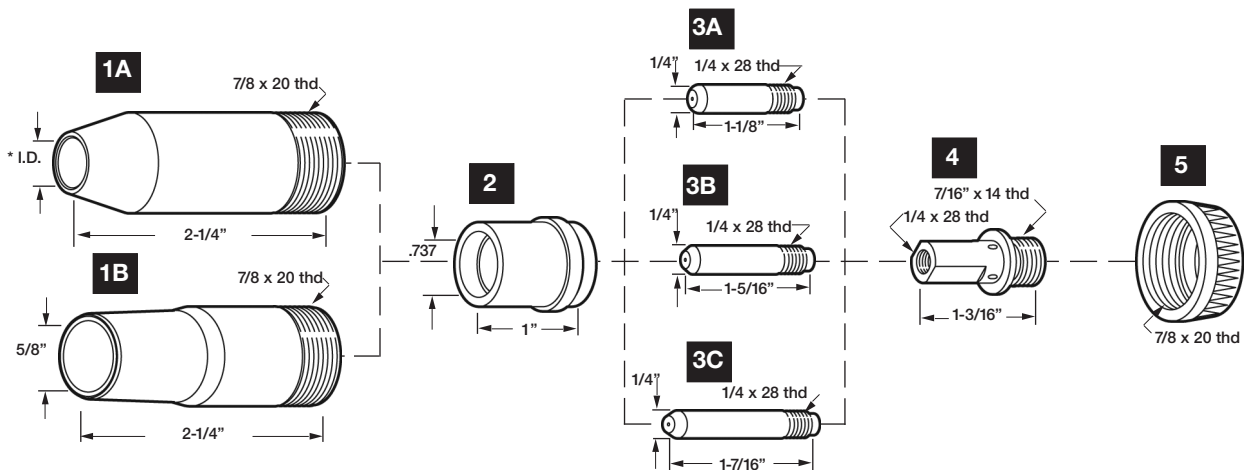
146-426	Tip Adapter	.023-.025	(0.6mm)
146-425	Tip Adapter	.030-.045	(0.8-1.2mm)

5. NOZZLE RETAINING NUTS

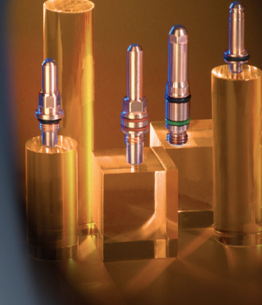
082-063	Retaining Nut
---------	---------------

*Short Contact Tips are recessed 1/16" inside Nozzle.
 *Standard Contact Tips are flush with Nozzle.
 *Long Contact Tips project 1/8" outside Nozzle.

MIG



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196

MILLER®

MIG

GA-40C/CAL

1. NOZZLES

I.D.

A	071-214	Nozzle (GA-40C only)	3/8"	(09.5mm)
B	047-959	Nozzle	1/2"	(12.7mm)
	047-957	Nozzle	5/8"	(15.9mm)
	045-638	Nozzle	13/16"	(20.6mm)

2. INSULATORS

094-986	Nozzle Insulator
---------	------------------

3. CONTACT TIPS

I.D.

A	054-202	Contact Tip Short*	.035	(0.9mm)	.043
	054-201	Contact Tip Short*	.045	(1.2mm)	.055
	044-006	Contact Tip Short*	.052	(1.3mm)	.063
	047-566	Contact Tip Short*	1/16"	(1.6mm)	.073
	047-565	Contact Tip Short*	5/64"	(2.0mm)	.093
B	054-183	Contact Tip Std.*	.035	(0.9mm)	.043
	054-157	Contact Tip Std.*	.045	(1.2mm)	.055
	057-730	Contact Tip Std.*	.052	(1.3mm)	.063
	047-576	Contact Tip Std.*	1/16"	(1.6mm)	.073
	047-577	Contact Tip Std.*	5/64"	(2.0mm)	.093
C	071-212	Contact Tip Tpaer*	.035	(0.9mm)	.043
	071-213	Contact Tip Tpaer*	.045	(1.2mm)	.055

4. CONTACT TIP ADAPTERS

094-985	Tip Adapter .035-.045 for GA-40C
094-987	Tip Adapter 1/16"-5/64" for GA-40C
109-805	Tip Adapter 3/64" Al. for Ga-40CAL

5. NOZZLE RETAINING NUTS

047-603	Retaining Nut
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LINERS

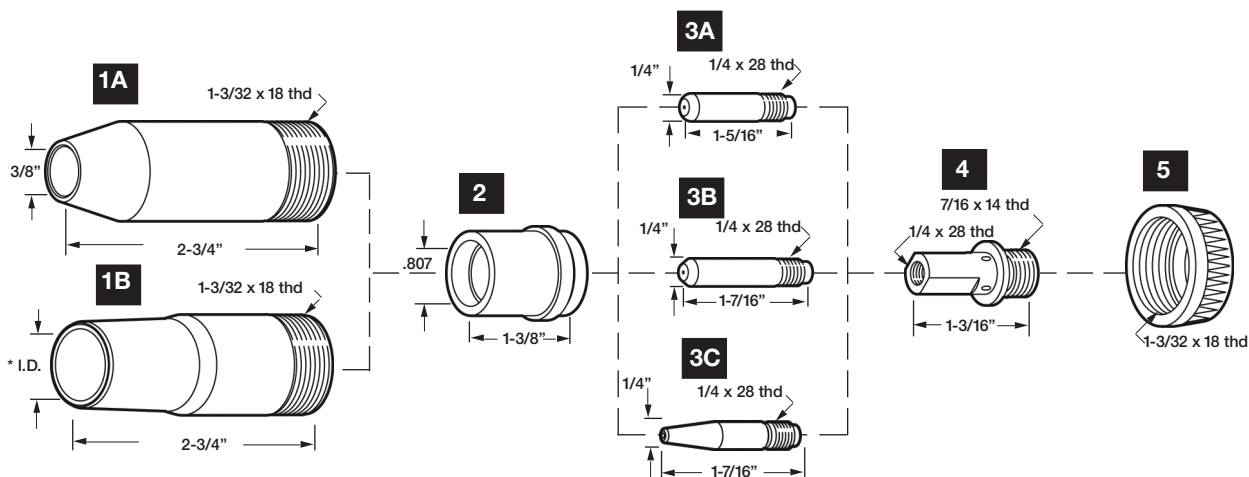
I.D. O.D.

083-891	Liner 15'	.035-.045	.064	.173
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*Liners are not shown

*Short Contact Tips are recessed 1/8" inside Nozzle

*Standard and Tapered Contact Tips are flush with Nozzle



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



197

MILLER®

GA-50C1 / G-40GL / A-500GL / GA-50P

1. CONTACT TIPS

I.D.

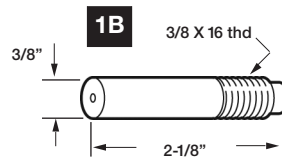
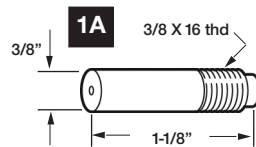
A	045-356	Contact Tip	.045	(1.2mm)	.055
	091-653	Contact Tip	.052	(1.3mm)	.063
	009-709	Contact Tip	1/16"	(1.6mm)	.073
	090-922	Contact Tip	.068-.072	(1.7mm)	.081
	052-056	Contact Tip	5/64"	(2.0mm)	.093
	008-926	Contact Tip	3/32"	(2.4mm)	.110
	008-925	Contact Tip	7/64	(2.8mm)	.120
	008-924	Contact Tip	1/8"	(3.2mm)	.136

1. CONTACT TIPS (CONT.)

I.D.

B	054-972	Contact Tip	.045	(1.2mm)	.055
	057-736	Contact Tip	.052	(1.3mm)	.063
	054-545	Contact Tip	1/16"	(1.6mm)	.073
	054-353	Contact Tip	5/64"	(2.0mm)	.093
	054-354	Contact Tip	3/32"	(2.4mm)	.110
	054-355	Contact Tip	7/64"	(2.8mm)	.120
	054-356	Contact Tip	1/8"	(3.2mm)	.136

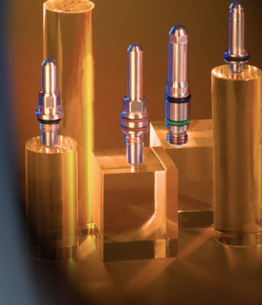
MIG



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198

MILLER®

MIG

SPOOLMATIC XR

1. NOZZLES

I.D.

050-115	Nozzle	1/2"	(12.7mm)
050-622	Nozzle	5/8"	(15.9mm)
050-116	Nozzle	13/16"	(20.6mm)

2. NOZZLE EXTENSION

144-862	Nozzle Extension
---------	------------------

3. BARREL EXTENSION

156-821	Barrel Extension
---------	------------------

4. CONTACT TUBES

I.D.

136-171	Contact Tube	.025	(0.6mm)	.028
135-427	Contact Tube	.030	(0.8mm)	.037
135-428	Contact Tube	.030	(0.8mm)	.040
147-314	Contact Tube	.035	(0.9mm)	.043
135-430	Contact Tube	.035	(0.9mm)	.052
135-429	Contact Tube	.047	(1.2mm)	.055
135-424	Contact Tube	.047	(1.2mm)	.059
135-426	Contact Tube	.062	(1.6mm)	.073
135-425	Contact Tube	.062	(1.6mm)	.081

5. NUT COMPRESSION

136-748	Nut Compression	.375-24
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6. ADAPTER CONTACT TUBE

136-680	Adapter Contact Tube
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7. TUBE HEAD

136-681	Tube Head with Set Screw 604-612
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8. NOZZLE EXTENSION JAM NUT

058-685	Nozzle Extension Jam Nut
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9. O-RING

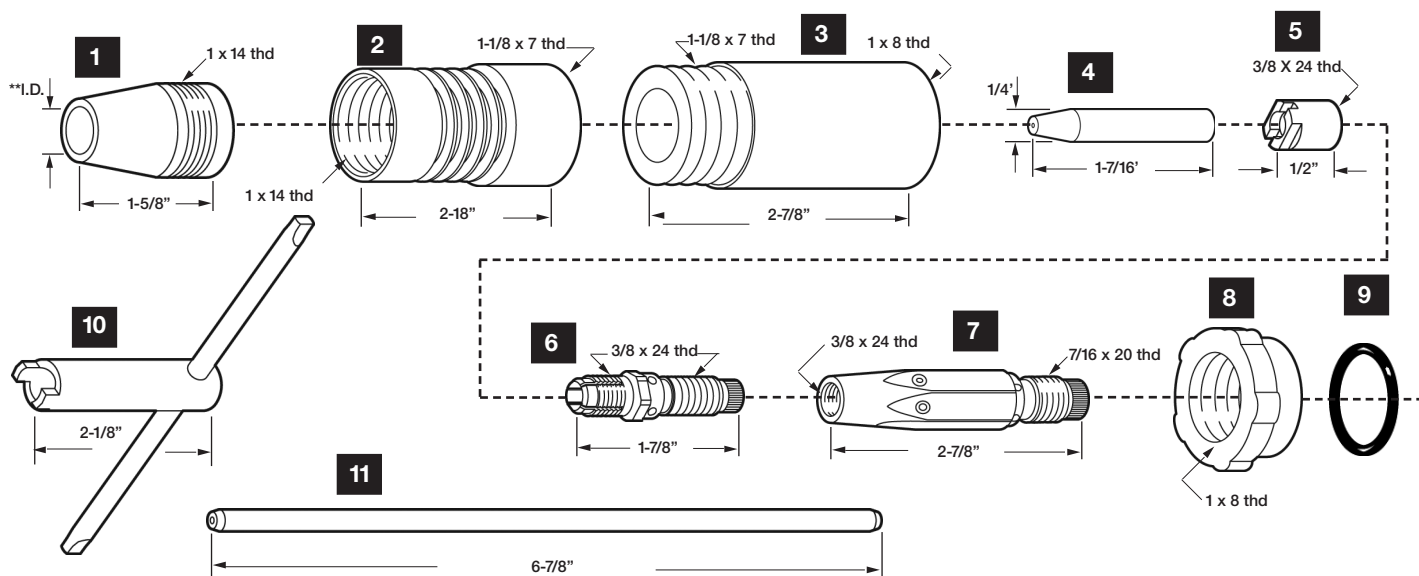
134-800	O-Ring .614 x .070 CS
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10. WRENCH

136-821	Wrench Contact Tube Nut
---------	-------------------------

11. LINERS

136-682	Liner Teflon	.023-.035
136-683	Liner Teflon	.045-1/16"



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SPOOLMATIC 1 / SPOOLMATIC 2 / SPOOLMATIC 3

1. NOZZLES

I.D.

050-115	Nozzle	1/2"	(12.7mm)
050-622	Nozzle	5/8"	(15.9mm)
050-116	Nozzle	13/16"	(20.6mm)

2. NOZZLE EXTENSION

053-784	Nozzle Extension
---------	------------------

3. BARREL EXTENSION

053-785	Barrel Extension
---------	------------------

4. CONTACT TIPS

I.D.

050-638	Contact Tip	.030	(0.8mm)	.037
094-259	Contact Tip	.035	(0.9mm)	.043
094-260	Contact Tip	.047	(1.2mm)	.059
050-637	Contact Tip	1/16"	(1.6mm)	.081

5. NUT

058-676	Nut Brass Compression
---------	-----------------------

6. ADAPTER CONTACT TIP

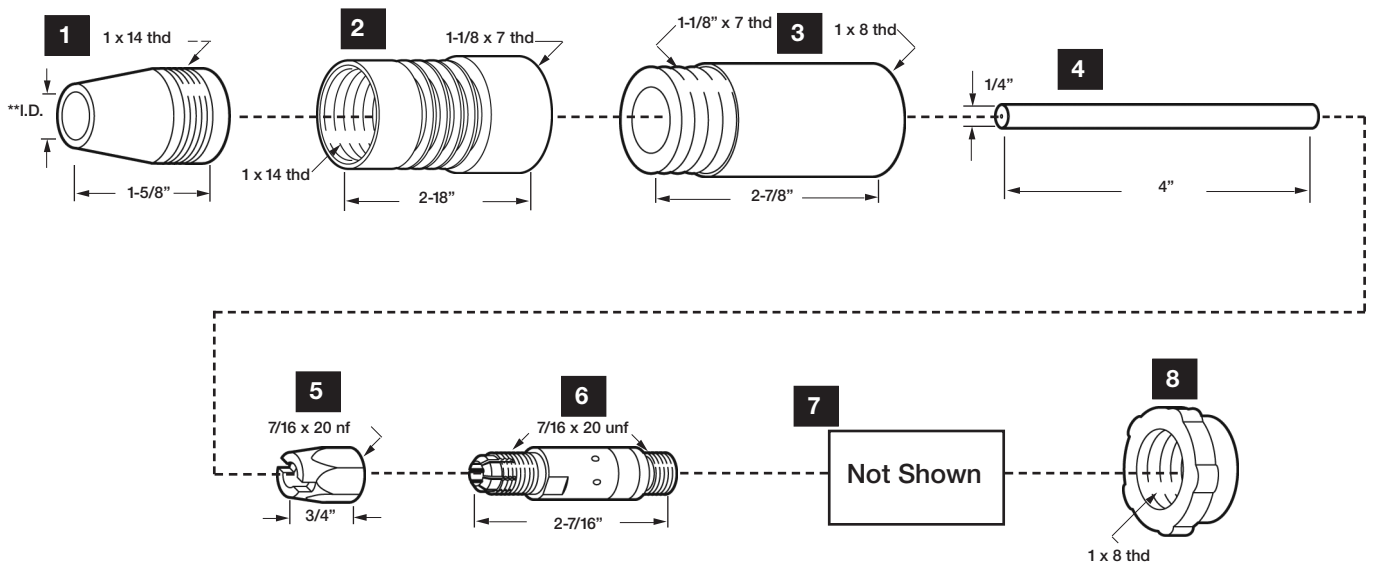
058-678	Adapter Contact Tip
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7. ADAPTER BARREL

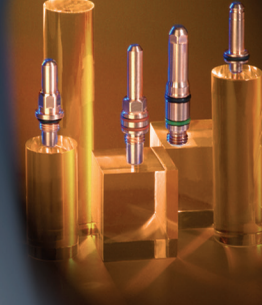
009-541	Adapter Barrel (NOT SHOWN)
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8. NOZZLE EXTENSION JAM NUT

058-685	Nozzle Extension Jam Nut
---------	--------------------------



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200

MILLER®

M15 / M25/25M / M40/M40AL

1. NOZZLES

I.D.

A	169-715	Nozzle Flush	1/2"	(12.7mm)
B	169-724	Nozzle 1/8" Tip Recess	1/2"	(12.7mm)
	169-725	Nozzle 1/8" Tip Recess	5/8"	(15.9mm)
C	169-726	Nozzle Flush	5/8"	(15.9mm)
D	169-727	Nozzle 1/8" Tip Stickout	5/8"	(15.9mm)

2. CONTACT TIPS

	087-299	Contact Tip	.025	(0.6mm)
	000-067	Contact Tip	.030	(0.8mm)
	000-068	Contact Tip	.035	(0.9mm)
	000-069	Contact Tip	.045	(1.2mm)
	172-024	Contact Tip	1/16"	(1.6mm)
	172-025	Contact Tip	5/64"	(2.0mm)
	172-034	Contact Tip	3/64" Al.	(1.2mm)

3. CONTACT TIP ADAPTERS

A	169-716	Adapter
B	169-728	Adapter

4. NOZZLE RETAINERS

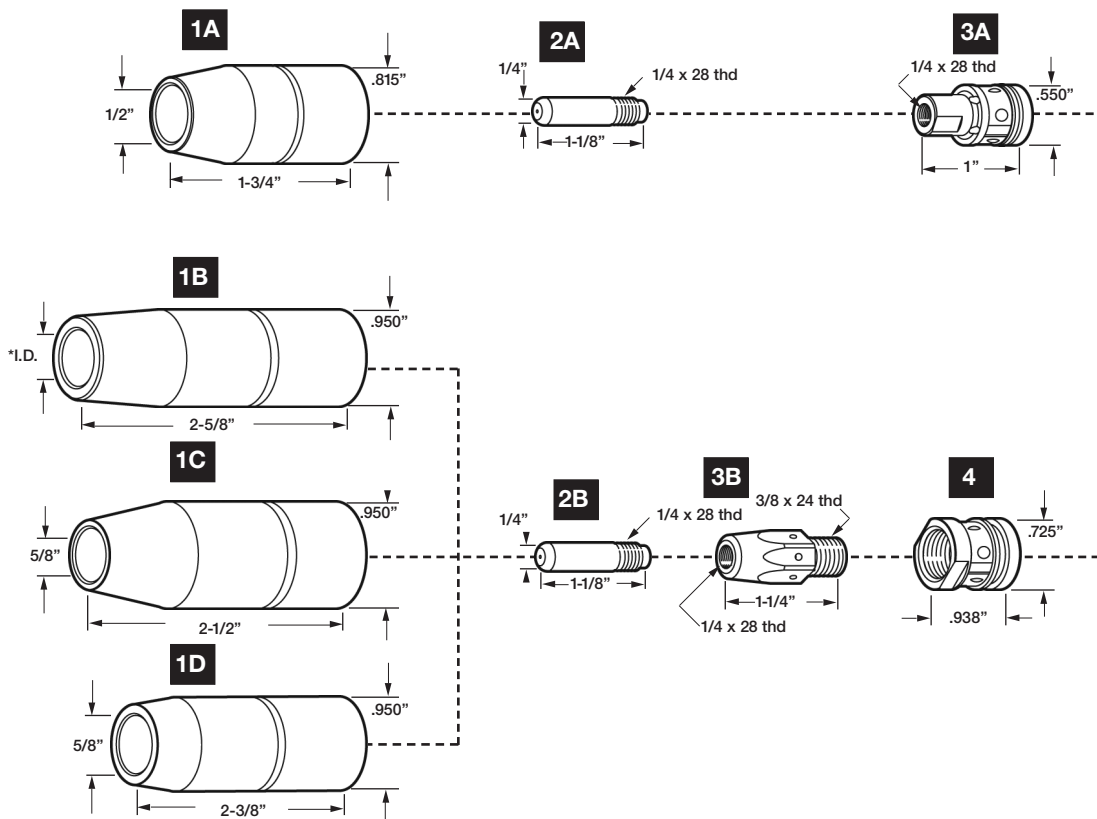
169-729	Nozzle Retainer
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LINERS

I.D. O.D.

172-257	Liner 15'	.023-.025	(0.6mm)	.051	.156
172-258	Liner 15'	.030-.035	(0.8-0.9mm)	.061	.166
172-259	Liner 15'	.035-.045	(0.9-1.2mm)	.087	.188
172-250	Liner 15'	1/16"-5/64"	(1.6-2.0mm)	.098	.188

*Liners are not shown



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1. NOZZLES

I.D.

A	050-115	Nozzle	1/2"	(12.7mm)
	050-622	Nozzle	5/8"	(15.9mm)
	050-116	Nozzle	13/16"	(20.6mm)
B	075-659	Nozzle	5/8"	(15.9mm)
	008-620	Nozzle	3/4"	(19.1mm)

2. CONTACT TIPS

I.D.

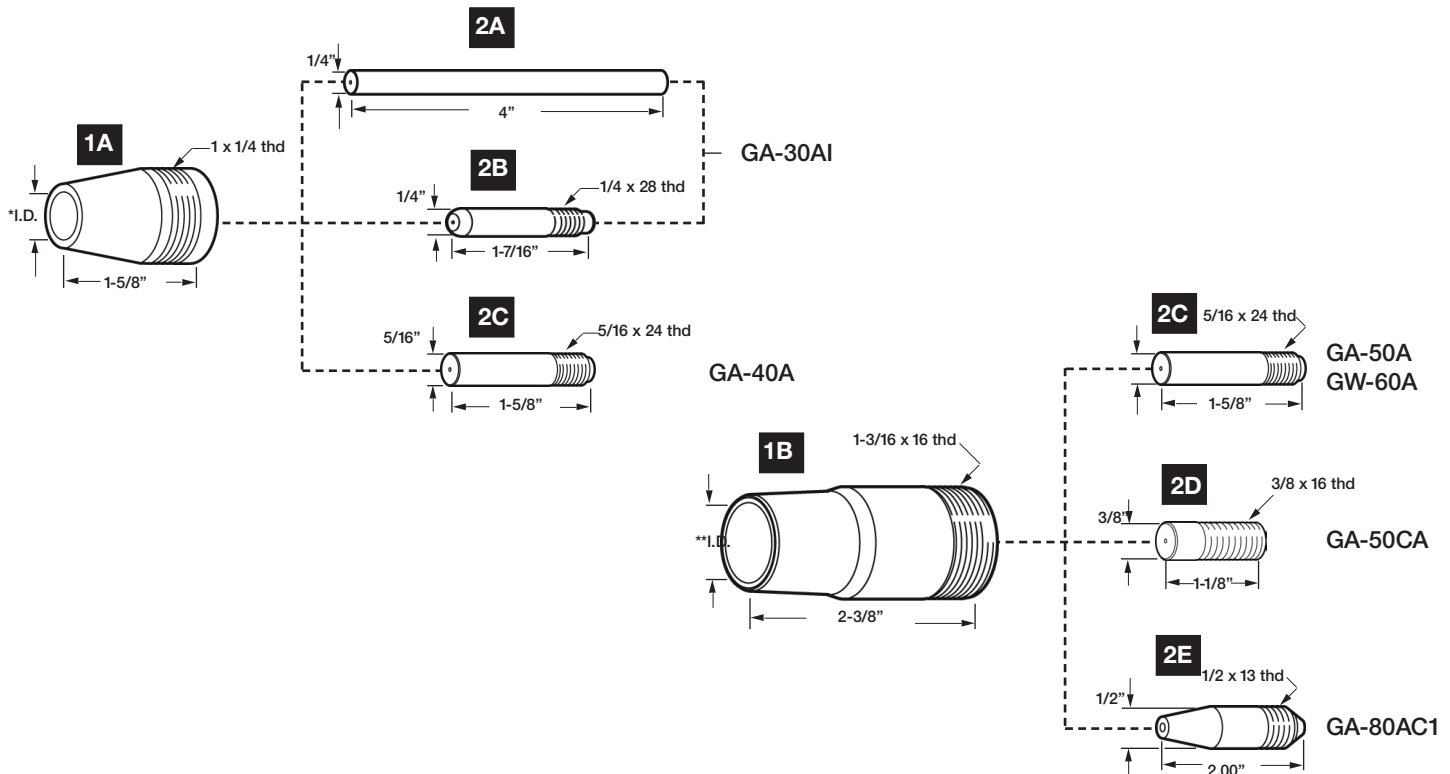
A	050-638	Contact Tube	.030	(0.8mm)	.043
	050-626	Contact Tube	.035-.047	(0.9-1.2mm)	.059
	050-637	Contact Tube	1/16"	(1.6mm)	.081
B	054-242	Contact Tip	.030	(0.8mm)	.037
	054-183	Contact Tip	.035	(mm)	.043
	054-157	Contact Tip	.045	(mm)	.055
	057-730	Contact Tip	3/64"-.052	(mm)	.063
	047-576	Contact Tip	1/16"	(mm)	.073
	047-577	Contact Tip	5/64"	(mm)	.093
C	056-820	Contact Tip	.030	(mm)	.037
	056-821	Contact Tip	.035	(mm)	.043

AUTOMATIC WELDING GUNS
2. CONTACT TIPS (CONT.)

I.D.

	056-822	Contact Tip	.045 (mm)	.055
	057-737	Contact Tip	.052 (mm)	.063
	056-823	Contact Tip	1/16" (mm)	.073
	056-824	Contact Tip	5/64" (mm)	.093
D	045-356	Contact Tip	.045 (mm)	.055
	091-653	Contact Tip	.052 (mm)	.063
	009-709	Contact Tip	1/16" (mm)	.073
	090-922	Contact Tip	.068 (mm)	.081
	052-055	Contact Tip	5/64" (mm)	.093
	008-926	Contact Tip	3/32" (mm)	.110
	008-925	Contact Tip	7/64" (mm)	.120
	008-924	Contact Tip	1/8" (mm)	.136
	075-694	Contact Tip	3/64" (mm)	.059
	075-695	Contact Tip	1/16" (mm)	.073
	075-696	Contact Tip	5/64" (mm)	.093
	075-697	Contact Tip	3/32" (mm)	.110
	075-698	Contact Tip	7/64" (mm)	.120
	075-699	Contact Tip	1/8" (mm)	.144
	047-925	Contact Tip	5/32" (mm)	.171
	047-510	Contact Tip	3/16" (mm)	.203

MIG



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202

MILLER®

XR-PISTOL

1. NOZZLES

I.D.

199615	Screw-on copper	1/2"
199616	Screw-on copper	3/4"
199617	Screw-on copper Heavy-duty	3/4"
198855	Screw-on copper	5/8"
199618	Screw-on copper Heavy-duty	5/8"
209035	Screw-on copper Tapered	3/8"
209036	Screw-on copper Tapered	1/2"

2. CONTACT TIPS

I.D.

403-1-30	Contact Tip H.D.	.030	(0.8mm)	.037
403-1-35	Contact Tip H.D.	.035	(0.9mm)	.043
403-1-45	Contact Tip H.D.	.045	(1.2mm)	.055
403-1-364	Contact Tip H.D.	3/64"	(1.2mm)	.059
403-1-52	Contact Tip H.D.	.052	(1.3mm)	.063
403-1-116	Contact Tip H.D.	1/16"	(1.6mm)	.073
403-1-564	Contact Tip H.D.	5/64"	(2.0mm)	.093
403-1-332	Contact Tip H.D.	3/32"	(2.4mm)	.110
403-7-35	Contact Tip H.D.	.035	(0.9mm)	.040
403-7-45	Contact Tip Long Life	.045	(1.2mm)	.050

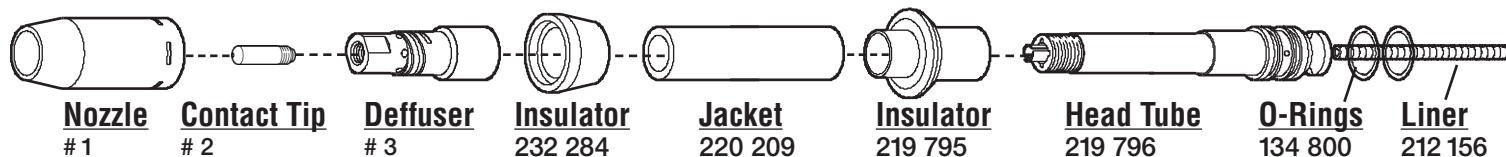
403-7-52	Contact Tip Long Life	.052	(1.3mm)	.059
403-7-116	Contact Tip Long Life	1/16"	(1.6mm)	.073
403-7-564	Contact Tip Long Life	5/64"	(2.0mm)	.093
403-7-332	Contact Tip Long Life	3/32"	(2.4mm)	.110
403-7-1.0	Contact Tip Long Life	.040	(1.0mm)	.048

3. DIFFUSERS

206195-L	Diffuser	1/8" Recess
210664-L	Diffuser	1/4" Recess
206196-L	Diffuser	Flush

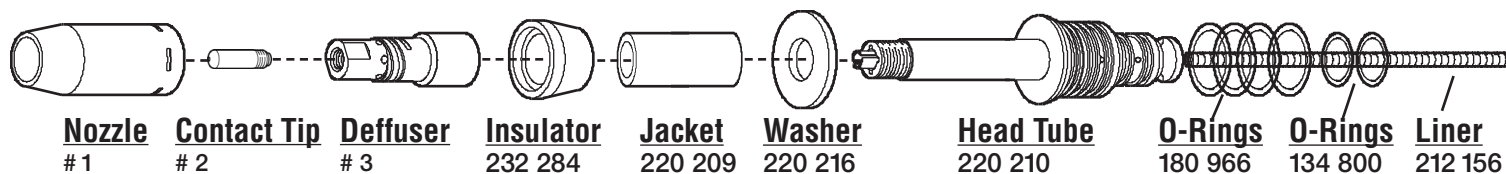
Air-Cooled Assembly

231 523-L



Water-Cooled Assembly

231 524-L



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AMERICAN TORCH TIP **ATTC**[®]

MIG
MIG DIVISION OF AMERICAN TORCH TIP

203



MIG

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MIG
MIG DIVISION OF AMERICAN TORCH TIP



204

MK PRODUCTS®

**COBRA TORCH / PRINCE TORCH****1. GAS CUPS****I.D.**

A	621-0366	Gas Cup H.D. #8	1/2"	(12.7mm)
	621-0367	Gas Cup H.D. #10	5/8"	(15.8mm)
B	001-0137	Gas Cup Std. #6	3/8"	(9.5mm)
	001-0138	Gas Cup Std. #8	1/2"	(12.7mm)
	001-0139	Gas Cup Std. #10	5/8"	(15.8mm)

2. CONTACT TIPS**I.D.**

621-0325	Tip Spray Arc. .030	(0.8mm)	.037
621-0076	Tip Spray Arc. .030	(0.8mm)	.040
621-0001	Tip Spray Arc. .035	(0.9mm)	.044
621-0327	Tip Spray Arc. .045	(1.2mm)	.053
621-0003	Tip Spray Arc. .045	(1.2mm)	.060
621-0075	Tip Spray Arc. 1/16"	(1.6mm)	.075
621-0153	Tip Spray Arc. 1/16"	(1.6mm)	.086
621-0326	Tip Spray Arc. .030	(0.8mm)	.037
621-0077	Tip Spray Arc. .030	(0.8mm)	.040
621-0002	Tip Spray Arc. .035	(0.9mm)	.044
621-0286	Tip Spray Arc. .052	(1.3mm)	.060
621-0154	Tip Spray Arc. 1/16"	(1.6mm)	.086

3. TIP EXTENSIONS

A	621-0017	Tip Extension	1-11/16"
B	003-0566	Tip Extension	1.95"

4. TORCH LINERS

615-0005	Teflon Liner	5-3/4"	Aluminum
615-0058	Teflon Liner	6-3/4"	Aluminum
615-0284	Spiral Liner	5-3/4"	Steel/Cored
615-0057	Spiral Liner	6-3/4"	Steel/Cored
615-0316	Green Teflon Liner	7-7/8"	All
615-0317	Green Teflon Liner	7-3/4"	Aluminum
615-0318	Steel Spiral Liner	7-1/2"	Steel/Cored
615-0319	Black Teflon Liner	3-1/4"	All
615-0325	White Teflon H.D.	5-1/2"	All
615-0326	White Teflon H.D.	7-3/4"	Aluminum

5. CABLE AND HOSE ASSEMBLIES

A	001-0610	Electrical Cable Assembly	15'
	001-0611	Electrical Cable Assembly	25'
	001-0612	Electrical Cable Assembly	30'
	001-0664	Electrical Cable Assembly	50'
	001-0613	7 Pin Cannon Plug	
B	001-0537	Gas Hose Assembly	15'
	001-0538	Gas Hose Assembly	25'
	001-0557	Gas Hose Assembly	30'
	001-0565	Gas Hose Assembly	50'
	001-0149	Power/Water Assembly	15'
C	001-0150	Power/Water Assembly	25'
	001-0177	Power/Water Assembly	30'
	001-0666	Power/Water Assembly	50'
D	001-0529	Water-In Hose Assembly	15'
	001-0530	Water-In Hose Assembly	25'
	001-0565	Water-In Hose Assembly	30'
	001-0567	Water-In Hose Assembly	50'
E	001-0007	Conduit	15'
	001-0008	Conduit	25'
	001-0563	Conduit	30'
	001-0659	Conduit	50'

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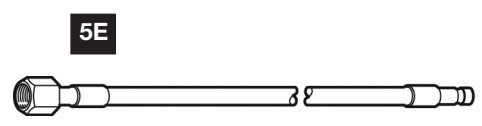
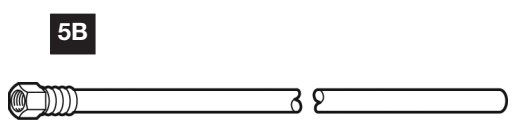
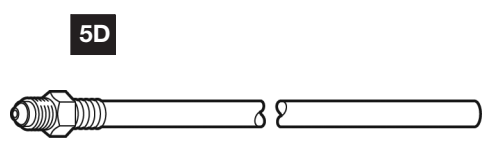
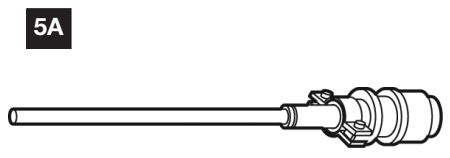
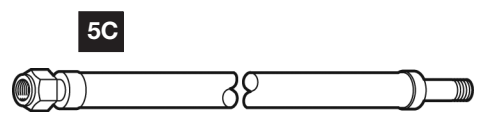
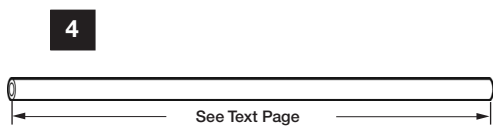
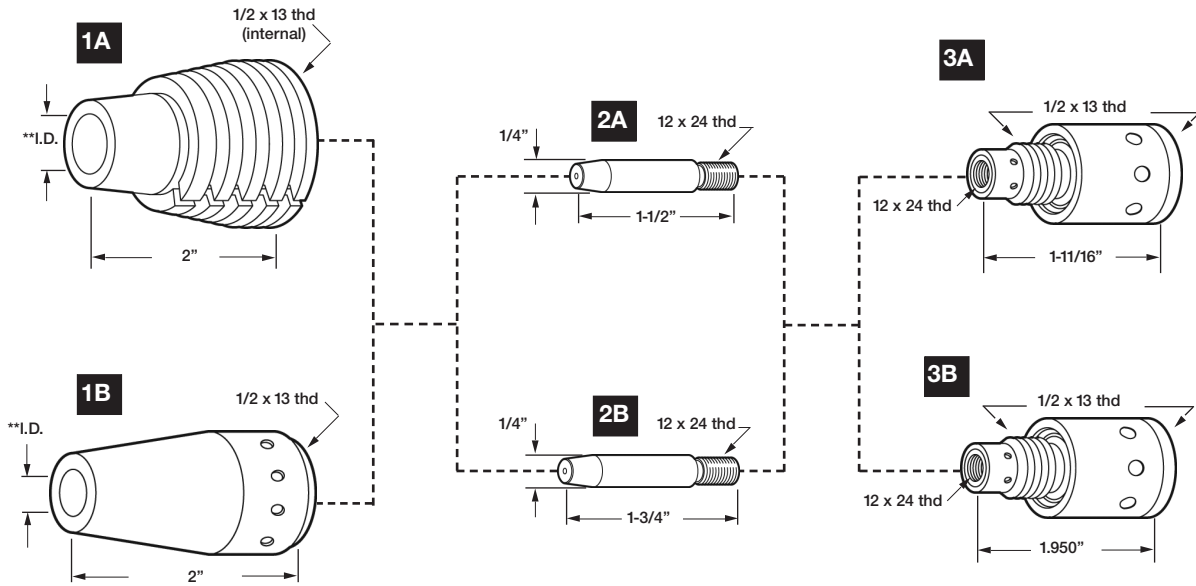
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205

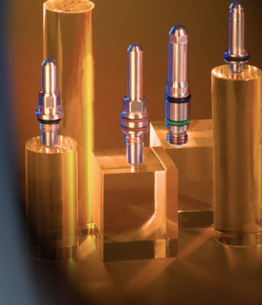
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COBRA TORCH / PRINCE TORCH



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206

MK PRODUCTS®

KINGCOBRA

1. CONTACT TIPS

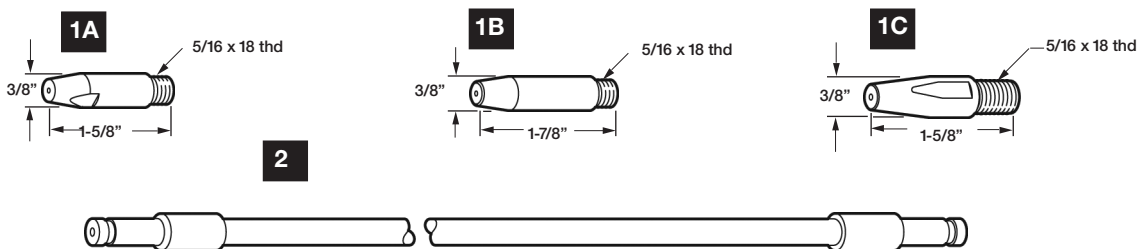
I.D.

A	621-0157	Tip Spray Arc.	.035	(0.9mm)	.044
	621-0161	Tip Spray Arc.	.052	(1.2mm)	.053
	621-0162	Tip Spray Arc.	3/64 Al.	(1.2mm)	.060
	621-0163	Tip Spray Arc.	1/16	(1.6mm)	.075
	621-0164	Tip Spray Arc.	1/16 Al.	(1.6mm)	.085
B	621-0166	Tip Spray Arc.	.035	(0.9mm)	.044
	621-0167	Tip Spray Arc.	.052	(1.2mm)	.053
	621-0168	Tip Spray Arc.	3/64 Al.	(1.2mm)	.060
	621-0169	Tip Spray Arc.	1/16	(1.6mm)	.075
	621-0021	Tip Spray Arc.	.035	(0.9mm)	.044
C	621-0022	Tip Spray Arc.	.045	(1.2mm)	.053
	621-0023	Tip Spray Arc.	1/16	(1.6mm)	.075
	621-0027	Tip Spray Arc.	3/64 Al	(1.2mm)	.060

2. CONDUITS

615-0007	Conduit	15'
615-0008	Conduit	25'
615-0068	Conduit	50'

MIG

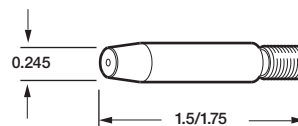


SIDEWINDER, PRINCE SG, COBRA SX, COBRA MX

1. CONTACT TIPS

I.D.

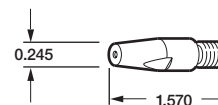
621-0057	Contact Tip .023"	.028
621-0325	Contact Tip .030"	.037
621-0076	Contact Tip .030"	.040
621-0001	Contact Tip .035"	.044
621-0077	Contact Tip .045"	.053
621-0002	Contact Tip .035"	.044
621-0327	Contact Tip .045"	.053
621-0003	Contact Tip 3/64"	.060
621-0076	Contact Tip 1/16"	.086
621-0286	Contact Tip 3/64"	.060
621-0075	Contact Tip 1/16"	.075



2. CONTACT TIPS

I.D.

621-0390	Contact Tip .030"	.040
621-0391	Contact Tip .035"	.044
621-0397	Contact Tip .035"	.044
621-0392	Contact Tip 3/64"	.053
621-0398	Contact Tip 3/64"	.053
621-0393	Contact Tip 3/64"	.060
621-0394	Contact Tip 1/16"	.075



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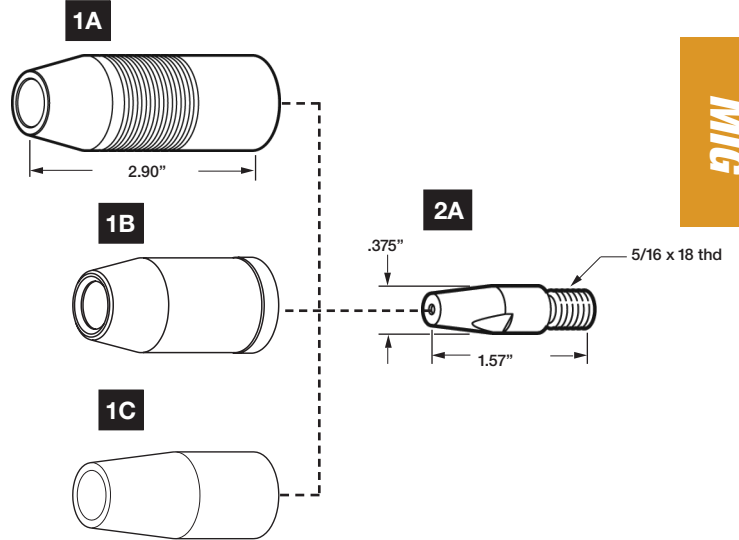
PYTHON, COBRAMAX, PRINCE XL, COBRA MX

AIR COOLED

1. NOZZLES

I.D.

A	621-0248	Nozzle	3/8"
	621-0249	Nozzle, Finned	1/2"
	621-0250	Nozzle, Finned	5/8"
	621-0251	Nozzle, Finned HD	5/8"
B	621-0420	MAX Cup	3/8"
	621-0421	MAX Cup	1/2"
	621-0422	MAX Cup	5/8"
C	621-0440	Quick Cup	3/8"
	621-0441	Quick Cup	7/16"
	621-0442	Quick Cup	1/2"
	621-0443	Quick Cup	5/8"



MIG

2. CONTACT TIPS

I.D.

A	621-0390	Contact Tip .030"	.040
	621-0391	Contact Tip .035"	.044
	621-0392	Contact Tip .045"	.053
	621-0393	Contact Tip .052"	.060
	621-0394	Contact Tip 1/16"	.075
	621-0395	Contact Tip 1/16"	.085

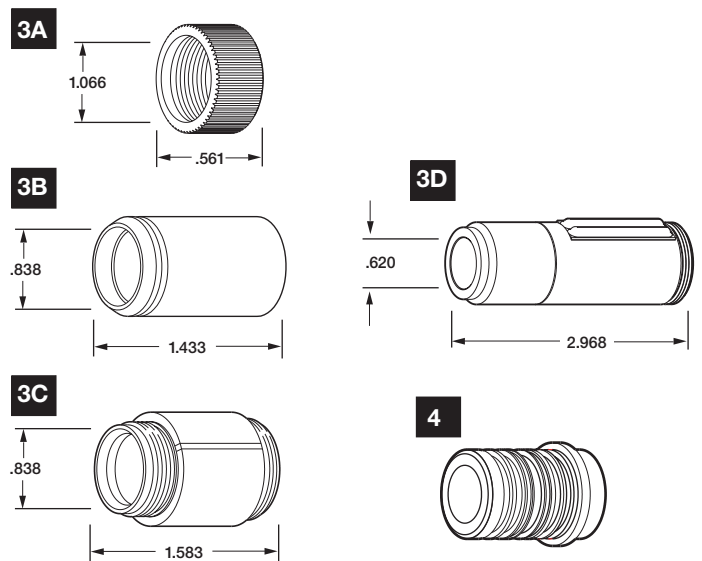
3. NOZZLES

I.D.

A	449-0193	Chrome Nut	
B	621-0159	Gas Cup #8	1/2"
	621-0160	Gas Cup #10 A/C	5/8"
	621-0170	Gas Cup #6 A/C	3/8"
C	621-0101	Cup Adapter W/C	
D	621-0065	Gas Cup W/C	

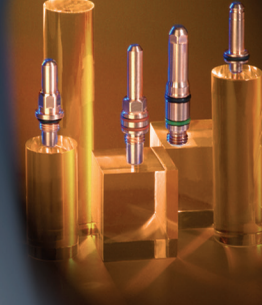
4. INSULATOR CUP

261-0381



WATER COOLED

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208

OTC®

RT502-L / LRT501

1. NOZZLES

861PTA1010 Nozzle 3/4" (19.1mm)

2. CONTACT TIPS I.D.

A	0.8 x 42	Contact Tip	.030	(0.8mm)	.037
	0.9 x 42	Contact Tip	.035	(0.9mm)	.043
	1.0 x 42	Contact Tip	.040	(1.0mm)	.048
	1.2 x 42	Contact Tip	.045	(1.2mm)	.050
B	1.6 x 42	Contact Tip	1/16"	(1.6mm)	.073
	0.8 x 45	Contact Tip	.030	(0.8mm)	.037
	0.9 x 45	Contact Tip	.035	(0.9mm)	.043
	1.0 x 45	Contact Tip	.040	(1.0mm)	.048
	1.2 x 45	Contact Tip	.045	(1.2mm)	.050
	1.6 x 45	Contact Tip	1/16"	(1.6mm)	.073

3. DIFFUSERS/HEADS

861PTA1030 Orifice

4. NOZZLE INSULATORS

86PTA1040 Insulator Cylinder

5. DIFFUSERS/HEADS

PL115-0134 Tip Body

6. TORCH BARRELS

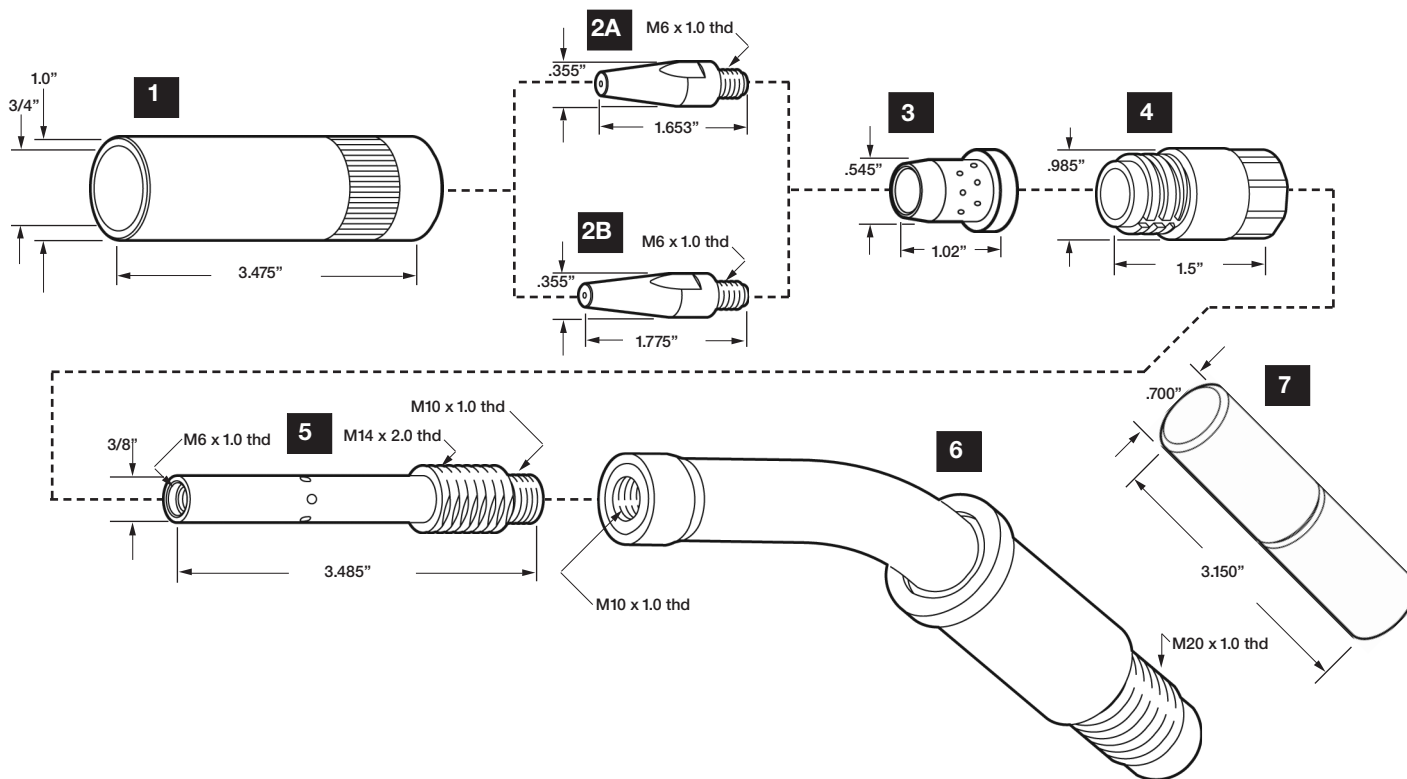
PB351-0997 Torch Barrel

7. BREAK AWAY BARS

PL116-0200 Break Away Bar

N/S OTHER AVAILABLE PARTS

PB351-1721	Spring Liner	64"
PB351-1723	Spring Liner	139"
PB351-0718	Cable Conduit	63"
PB351-0719	Cable Conduit	138"
PB351-0999	Conductive Bracket	



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1. CONTACT TIPS

I.D.

A	002-005	Contact Tips	.030	(0.8mm)	.037
	002-001	Contact Tips	.035	(0.9mm)	.043
	002-002	Contact Tips	.040	(1.0mm)	.048
	002-003	Contact Tips	.045	(1.2mm)	.055
	002-004	Contact Tips	1/16"	(1.6mm)	.073
	002-018	Contact Tips	.045 AL	(1.2mm)	.059
	002-019	Contact Tips	1/16" AL	(1.6mm)	.078
B	002-006	Contact Tips Long	.030	(0.8mm)	.037
	002-007	Contact Tips	.035	(0.9mm)	.043
	002-008	Contact Tips	.040	(1.0mm)	.048
	002-009	Contact Tips	.045	(1.2mm)	.055

2. NOZZLES

I.D.

A	038-050	Nozzle 180	.512	(13mm)
B	001-002	Nozzle	.630	(16mm)
C	001-001	Nozzle	.750	(19mm)

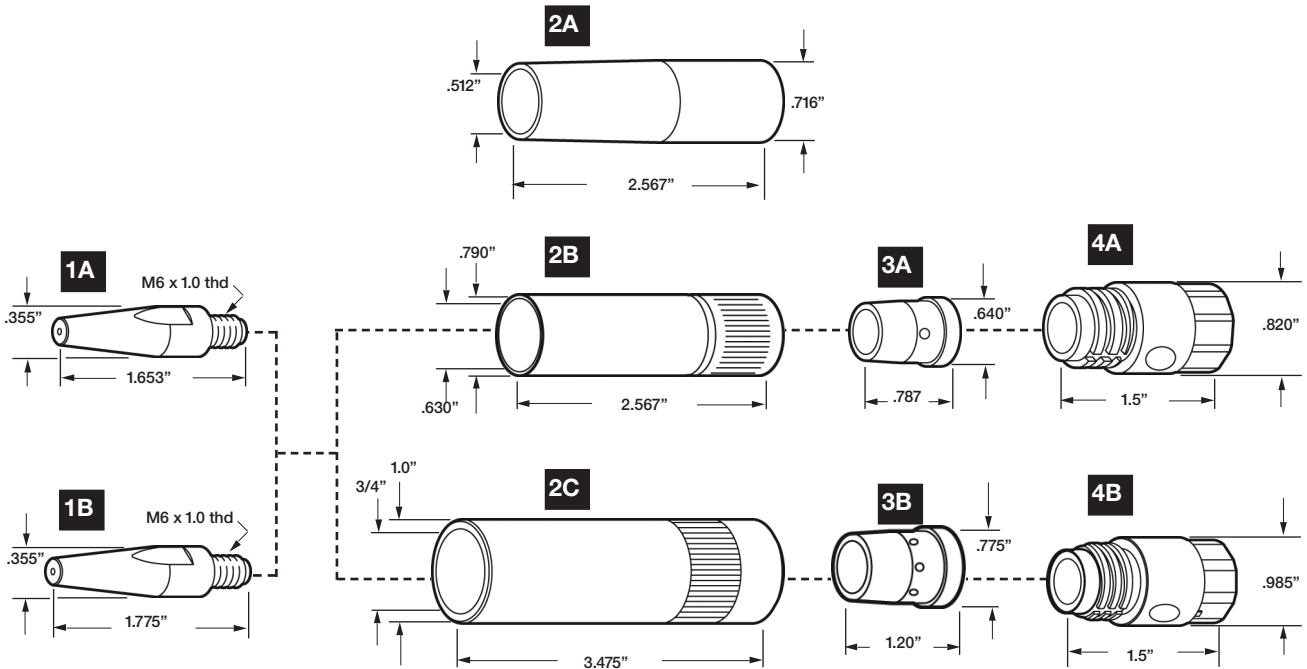
3. ORIFICE

A	003-002	Orifice Ceramic - Small
B	003-001	Orifice Ceramic - Large

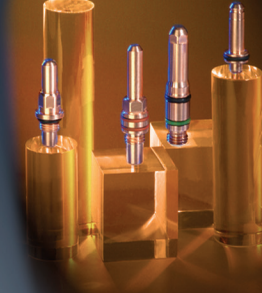
4. NOZZLE INSULATORS

A	004-001	Nozzle Insulator - Small
B	004-002	Nozzle Insulator - Large

MIG



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210

TREGASKISS®

TOUGH GUN 300, 400, 500

1. NOZZLES - INSULATED I.D.

MIG	A	401-4-38	Nozzle Std. Flush	3/8" (09.5mm)
		401-4-62	Nozzle 1/8" Stick-Out	5/8" (15.9mm)
	B	401-4-50	Nozzle Std. 1/8" Tip Recess	1/2" (12.7mm)
		401-4-62	Nozzle Std. 1/8" Tip Recess	5/8" (15.9mm)
		401-4-75	Nozzle Std. 1/8" Tip Recess	3/4" (19.1mm)
	C	401-5-62	Nozzle H.D. Cu 1/4" Tip Rec.	5/8" (15.9mm)
		401-5-75	Nozzle H.D. Cu 1/4" Tip Rec.	3/4" (19.1mm)
		401-7-62	Nozzle H.D. Brass 1/4" Tip Rec.	5/8" (15.9mm)
	D	401-6-62	Nozzle H.D. Cu 1/8" Tip Rec.	5/8" (15.9mm)
		401-6-75	Nozzle H.D. Cu 1/8" Tip Rec.	3/4" (19.1mm)
	E	401-48-50	Nozzle Bottleneck 1/8 STKT	1/2"
		401-48-62	Nozzle Bottleneck Flush	5/8"
		401-81-62	Nozzle HD 1/8 STKT	5/8"
		401-87-62	Nozzle HD Brass 1/8 STKT	5/8"

2. CONTACT TIPS I.D.

MIG	A	403-23	Contact Tip Std.	.023 (0.6mm)	.028
		403-30	Contact Tip Std.	.030 (0.8mm)	.037
		403-35	Contact Tip Std.	.035 (0.9mm)	.043
		403-1.0	Contact Tip Std.	.040 (1.0mm)	.048
		403-45	Contact Tip Std.	.045 (1.2mm)	.055
		403-52	Contact Tip Std.	.052 (1.3mm)	.063
		403-116	Contact Tip Std.	1/16" (1.6mm)	.073
	B	403-2-23	Contact Tip Tapered	.023 (0.6mm)	.028
		403-2-30	Contact Tip Tapered	.030 (0.8mm)	.037
		403-2-35	Contact Tip Tapered	.035 (0.9mm)	.043
		403-2-45	Contact Tip Tapered	.045 (1.2mm)	.055
		403-2-52	Contact Tip Tapered	.052 (1.3mm)	.063
	C	403-1-30	Contact Tip H.D.	.030 (0.8mm)	.037
		403-1-35	Contact Tip H.D.	.035 (0.9mm)	.043
		403-1-45	Contact Tip H.D.	.045 (1.2mm)	.055
		403-1-364	Contact Tip H.D.	3/64" (1.2mm)	.059
		403-1-52	Contact Tip H.D.	.052 (1.3mm)	.063
		403-1-116	Contact Tip H.D.	1/16" (1.6mm)	.073
		403-1-564	Contact Tip H.D.	5/64" (2.0mm)	.093
		403-1-332	Contact Tip H.D.	3/32" (2.4mm)	.110
		403-7-35	Contact Tip Long Life	.035 (0.9mm)	.040
		403-7-45	Contact Tip Long Life	.045 (1.2mm)	.050
		403-7-52	Contact Tip Long Life	.052 (1.3mm)	.059
		403-7-116	Contact Tip Long Life	1/16" (1.6mm)	.070
		403-7-564	Contact Tip Long Life	5/64" (2.0mm)	.093
		403-7-332	Contact Tip Long Life	3/32" (2.4mm)	.110
		403-7-1.0	Contact Tip Long Life	.040 (1.0mm)	.045
	D	403-3-30	Contact Tip H.D. Tap	.030 (0.8mm)	.037
		403-3-35	Contact Tip H.D. Tap	.035 (0.9mm)	.043
		403-3-40	Contact Tip H.D. Tap	.040 (1.0mm)	.048
		403-3-45	Contact Tip H.D. Tap	.045 (1.2mm)	.055
		403-3-52	Contact Tip H.D. Tap	.052 (1.3mm)	.063

3. GAS DIFFUSERS

A	404	Diffuser for Standard Contact Tips
B	404-1	Diffuser for H.D. Contact Tips

4. RETAINING HEADS (USE WITH H.D. NOZZLES)

404-3	Retaining Head H.D.
404-3A	Retaining Head H.D. Angled Holes

5. NOZZLE RETAINERS

402-3	Nozzle Retainer
-------	-----------------

6. SHOCK WASHERS

A	402-5	Shock Washer H.D.
B	402-7	Shock Washer Plastic

7. GOOSENECKS

205-60	Gooseneck	60°	200Amp
305-60	Gooseneck	60°	300Amp
405-45	Gooseneck	45°	400Amp
405-60	Gooseneck	60°	400Amp
505-60	Gooseneck	60°	500Amp

LINERS I.D. O.D.

415-35-10	Liner 10'	.035	White	.073	.175
415-35-15	Liner 15'	.035	White	.073	.175
415-35-25	Liner 25'	.035	White	.073	.175
415-116-6	Liner 6"	.045-1/16"	Red	.089	.189
415-116-10	Liner 10'	.045-1/16"	Red	.089	.189
415-116-15	Liner 15'	.045-1/16"	Red	.089	.189
415-116-25	Liner 25'	.045-1/16"	Red	.089	.189
415-332-15	Liner 15'	3/32"	Black	.118	.189
415-332-25	Liner 25'	3/32"	Black	.118	.189

* Liners are not shown.

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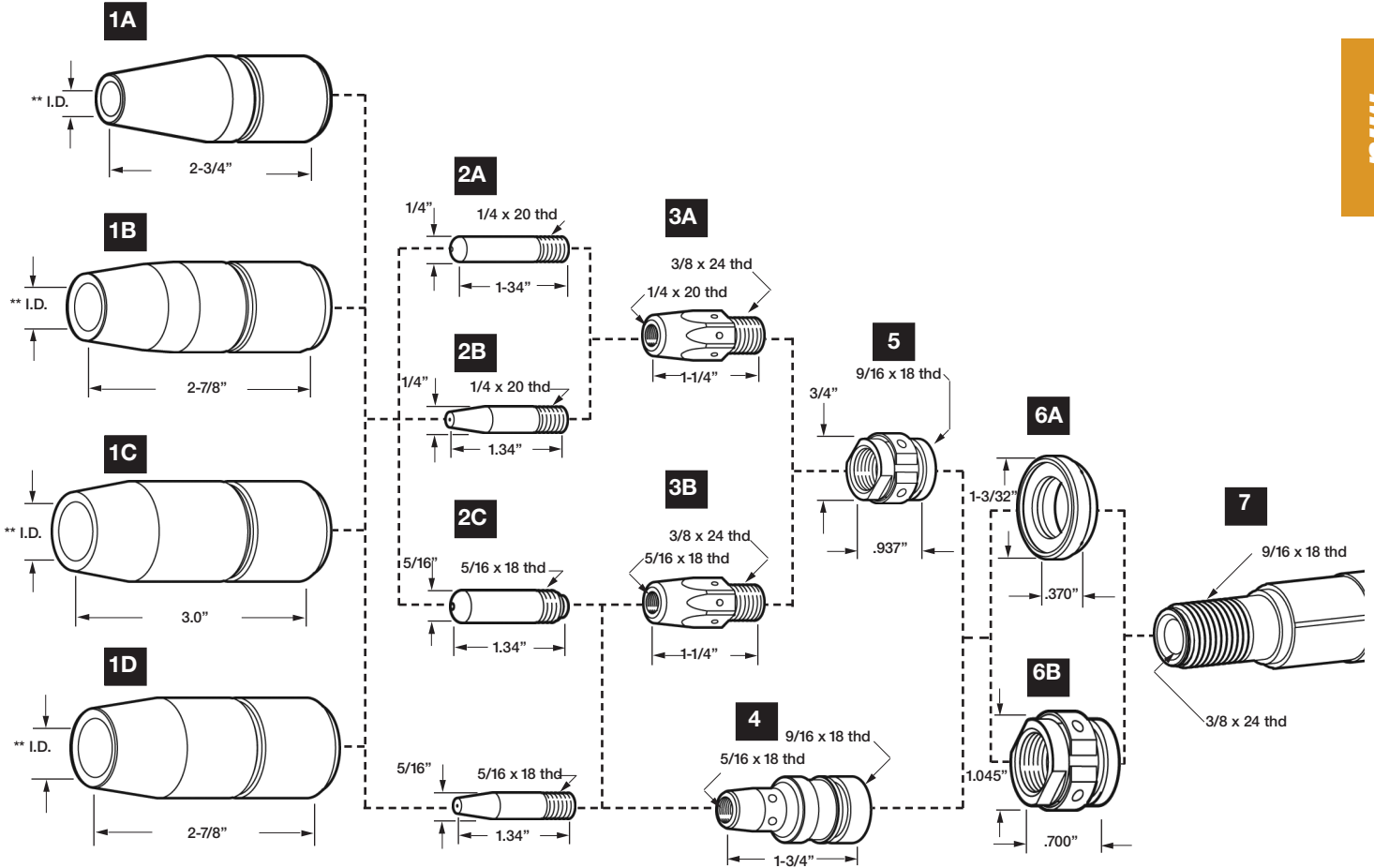
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211

TREGASKISS®

TOUGH GUN 300, 400, 500



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212

TWECO®

1

MIG

1. NOZZLES

A	21-37	Nozzle Insul. 1/8" Recess	3/8" (09.5mm)
	21-50	Nozzle Insul. 1/8" Recess	1/2" (12.7mm)
	21-62	Nozzle Insul. 1/8" Recess	5/8" (15.9mm)
B	21-37-F	Nozzle Insulated Flush	3/8" (09.5mm)
	21-50-F	Nozzle Insulated Flush	1/2" (12.7mm)
	21-62-F	Nozzle Insulated Flush	5/8" (15.9mm)
C	21T-37	Nozzle Tapered 1/8" Recess	3/8" (09.5mm)

2. CONTACT TIPS

I.D.

A	11-23	Contact Tip	.023	(0.6mm)	.028
	11-30	Contact Tip	.030	(0.8mm)	.037
	11-35	Contact Tip	.035	(0.9mm)	.043
	11-40	Contact Tip	.040	(1.0mm)	.048
	11-45	Contact Tip	.045	(1.2mm)	.055
B	11-30	Contact Tip H.D.	.030	(0.8mm)	.037
	11H-35	Contact Tip H.D.	.035	(0.9mm)	.043
	11H-40	Contact Tip H.D.	.040	(1.0mm)	.048
	11H-45	Contact Tip H.D.	.045	(1.2mm)	.055
	11AH-364	Contact Tip H.D.	3/64"Al.	(1.2mm)	.059
C	11T-23	Contact Tip Tapered	.023	(0.6mm)	.028
	11T-30	Contact Tip Tapered	.030	(0.8mm)	.037
	11T-35	Contact Tip Tapered	.035	(0.9mm)	.043
	11T-40	Contact Tip Tapered	.040	(1.0mm)	.048
	11T-45	Contact Tip Tapered	.045	(1.2mm)	.055

3. GAS DIFFUSERS

A	35-50	Gas Diffuser (Mini-Mig)
B	51	Gas Diffuser (#1)
	51-23	Gas Diffuser (#1) .023

4. CONDUCTOR TUBES & INSULATION

A	35-70	Conductor Tube Insulation (Mini-Mig)
B	35-60-45	Conductor Tube 45° (Mini-Mig)
	35-60-60	Conductor Tube 60° (Mini-Mig)
C	61-45	Conductor Tube 45° (#1)
	61-60	Conductor Tube 60° (#1)
	61-180	Conductor Tube 180° (#1)
D	71	Conductor Tube Insulation (#1)

LINERS

I.D. O.D.

MINI-MIG

A	23-40-15	Liner Assy.	15'	.023	.036	.123
	35-40-15	Liner Assy.	15'	.030-.035	.050	.134
	35-40-20	Liner Assy.	20'	.030-.035	.050	.134
	35TF-40-10	Liner Assy. Teflon	10'	.035	.066	.148
	35TF-40-15	Liner Assy. Teflon	15'	.035	.066	.148
	45-40-15	Liner Assy.	15'	.035	.063	.138
	45TF-40-10	Liner Assy. Teflon	10'	.045	.079	.156
	45TF-40-15	Liner Assy. Teflon	15'	.045	.079	.156

#1

B	42-23-15	Liner Assy.	15'	.023	.036	.123
	42-3035-15	Liner Assy.	15'	.030-.035	.053	.15
	42-3035-25	Liner Assy.	25'	.030-.035	.053	.156
	42-4045-15	Liner Assy.	15'	.040-.045	.059	.156
	42-4045-25	Liner Assy.	25'	.040-.045	.059	.156
	42N-3545-15	Liner Assy. Nylon	15'	.035-.045	.066	.148

*Liners are not shown

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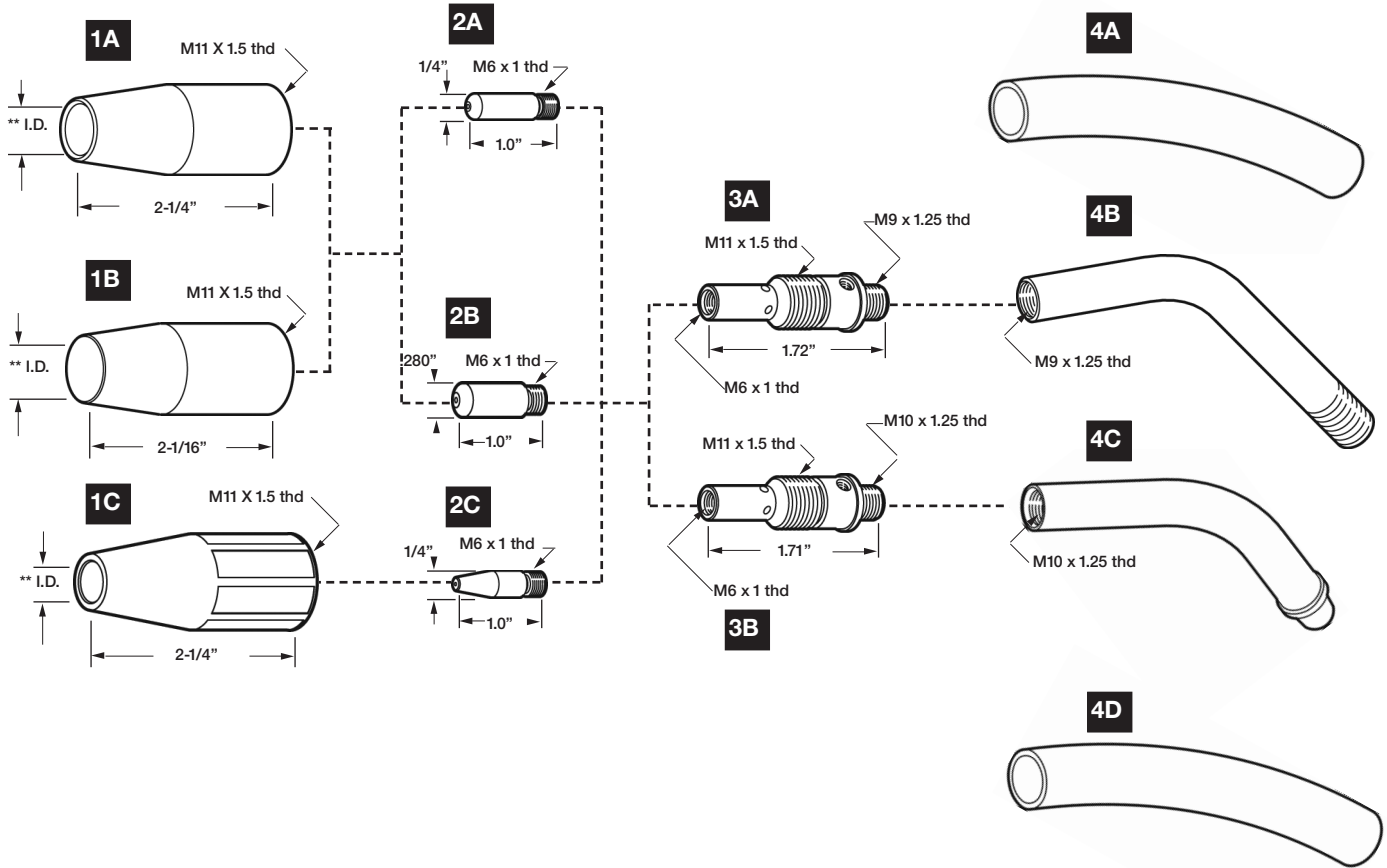
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213

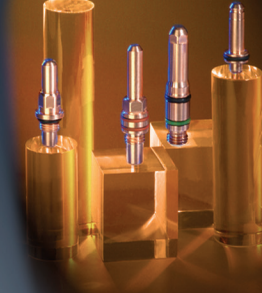
TWECO®

1



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214

TWECO®

2 COMPATIBLE WITH TWECO 200AMP

MIG

1. NOZZLES

I.D.

A	22-50	Nozzle Adjustable	1/2" (12.7mm)
	22-62	Nozzle Adjustable	5/8" (15.9mm)
B	22-37-SS	Nozzle Adj. Short Stop	3/8" (09.5mm)
	22-50-SS	Nozzle Adj. Short Stop	1/2" (12.7mm)
C	22-62-SS	Nozzle Adj. Short Stop	5/8" (15.9mm)
	24T-37-SS	Nozzle Adj. Tapered S.S.	3/8" (09.5mm)
D	24A-50	Nozzle Adjustable	1/2" (12.7mm)
	24A-62	Nozzle Adjustable	5/8" (15.9mm)
	24A-75	Nozzle Adjustable	3/4" (19.1mm)
E	24A-37-SS	Nozzle Adj. Short Stop	3/8" (09.5mm)
	24A-50-SS	Nozzle Adj. Short Stop	1/2" (12.7mm)
	24A-62-SS	Nozzle Adj. Short Stop	5/8" (15.9mm)
	24A-75-SS	Nozzle Adj. Short Stop	3/4" (19.1mm)
	24AT-37-SS	Nozzle Adj. Tapered S.S.	3/8" (09.5mm)
F	23-37	Nozzle Insulated	3/8" (09.5mm)
	23-50	Nozzle Insulated	1/2" (12.7mm)
	23-62	Nozzle Insulated	5/8" (15.9mm)
	23-75	Nozzle Insulated	3/4" (19.1mm)
	23H-50	Nozzle Insulated H.D.	1/2" (12.7mm)
	23H-62	Nozzle Insulated H.D.	5/8" (15.9mm)
	23H-75	Nozzle Insulated H.D.	3/4" (19.1mm)
G	23T-37	Nozzle Insulated Tapered	3/8" (09.5mm)
	23-37-F	Nozzle Insulated Flush	3/8" (09.5mm)
	23-50-F	Nozzle Insulated Flush	1/2" (12.7mm)
	23-75-F	Nozzle Insulated Flush	3/4" (19.1mm)
H	23T-37-F	Nozzle Insul. Tapered Flush	3/8" (09.5mm)
	24CT-37-S	Nozzle Coarse Thread	3/8" (09.5mm)
	24CT-50-S	Nozzle Coarse Thread	1/2" (12.7mm)
	24CT-62-S	Nozzle Coarse Thread	5/8" (15.9mm)
	24CT-75-S+	Nozzle Coarse Thread	3/4" (19.1mm)

2. INSULATORS

A	32	Insulator (#2) for Adjustable Nozzles
B	34A	Insulator (#2,3,4) for Adjustable Nozzles
C	34CT	Insulator (#2,3,4) for Coarse Threaded Nozzles
D	34FN	Insulator (#2,3,4) for Fine Threaded Nozzles

+Available with spatter resistant coating (-C)

3. CONTACT TIPS

ID

A	14-23	Contact Tip	.023	(0.6mm) .028	
	14-30	Contact Tip	.030	(0.8mm) .037	
	14-35	Contact Tip	.035	(0.9mm) .043	
	14-40	Contact Tip	.040	(1.0mm) .048	
	14-45	Contact Tip	.045	(1.2mm) .055	
	14-52	Contact Tip	.052	(1.3mm) .063	
	14A-364	Contact Tip	3/64 Al.	(1.2mm) .059	
	B	14T-23	Contact Tip Tapered	.023	(0.6mm) .028
		14T-30	Contact Tip Tapered	.030	(0.8mm) .037
		14T-35	Contact Tip Tapered	.035	(0.9mm) .043
14T-40		Contact Tip Tapered	.040	(1.0mm) .048	
C	14T-45	Contact Tip Tapered	.045	(1.2mm) .055	
	14H-30	Contact Tip H.D.	.030	(0.8mm) .037	
	14H-35	Contact Tip H.D.	.035	(0.9mm) .043	
	14H-40*	Contact Tip H.D.	.040	(1.0mm) .048	
	14H-45*	Contact Tip H.D.	.045	(1.2mm) .055	
	14AH-364*	Contact Tip H.D.	3/64 Al.	(1.2mm) .059	
	14AH-116*	Contact Tip H.D.	1/16 Al.	(1.6mm) .081	

4. GAS DIFFUSERS

A	52	Gas Diffuser (#2)	
	52-23	Gas Diffuser (#2)	.023
B	52FN	Gas Diffuser (#2)	

5. CONDUCTOR TUBES

A	62A-45	Conductor Tube 45°
	62A-60	Conductor Tube 60°
	62A-80	Conductor Tube 80°
	62A-180	Conductor Tube 180°
B	72A	Conductor Tube Insulation
C	64N	Nipple

LINERS

I.D.

O.D.

42-23-15	Liner Assy. 15'	.023	.036	.123
42-3035-15	Liner Assy. 15'	.030-.035	.053	.156
42-3035-25	Liner Assy. 25'	.030-.035	.053	.156
42-4045-15	Liner Assy. 15'	.040-.045	.059	.156
42-4045-25	Liner Assy. 25'	.040-.045	.059	.156
42N-3545-15	Liner Assy. Nylon 15'	.035-.045	.066	.148

*Liners are not shown

*Available in Long Lasting (LL)

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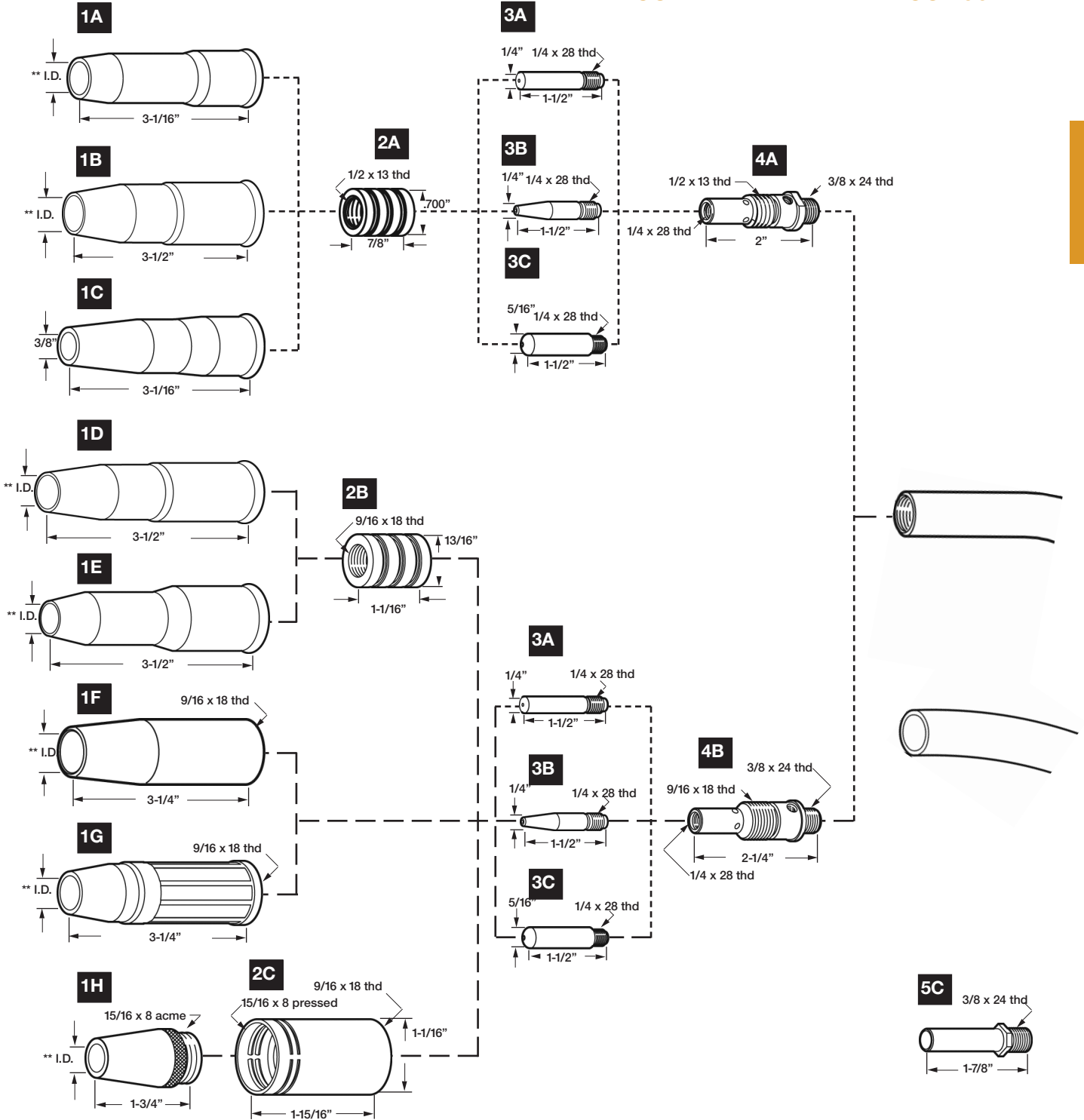
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215

TWECO®

2 COMPATIBLE WITH TWECO 200AMP



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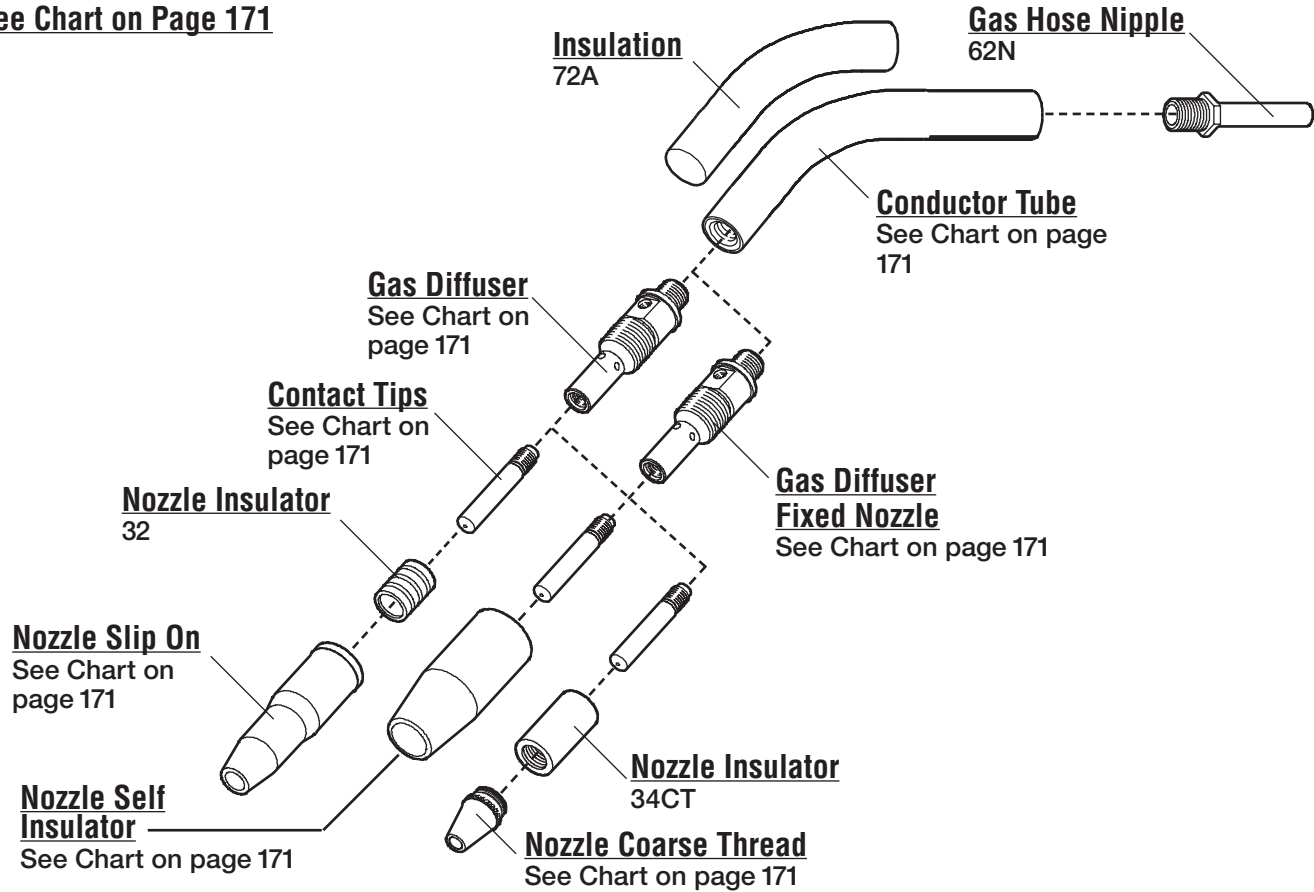
216

T-200 MIG GUN®

T-200 COMPATIBLE WITH TWECO 200AMP

See Chart on Page 171

MIG



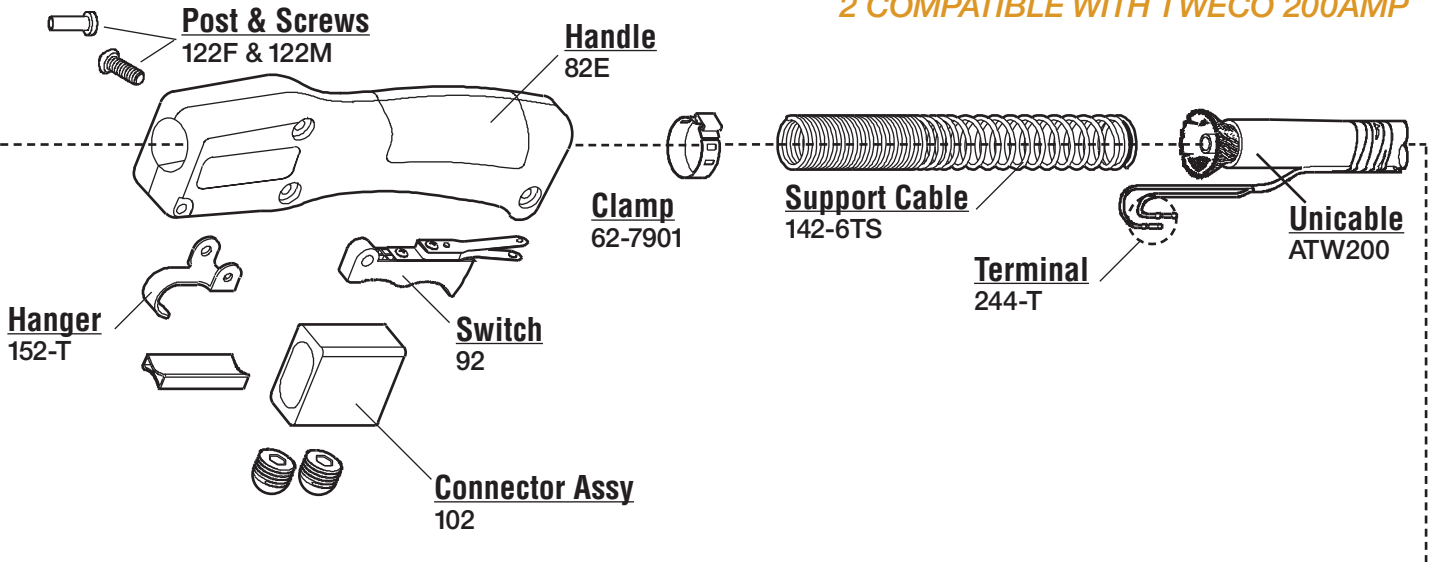
RATING:
200A C02 150A MIXED GAS
@ 100% DUTY CYCLE
.023" 0.6mm TO .045" 1.2mm WIRE

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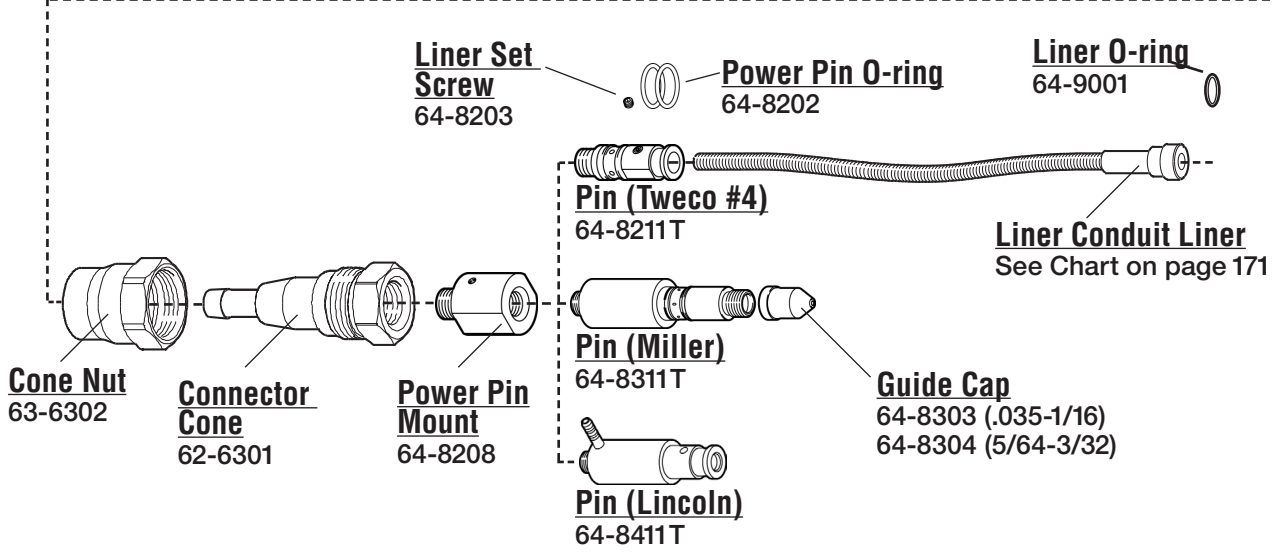
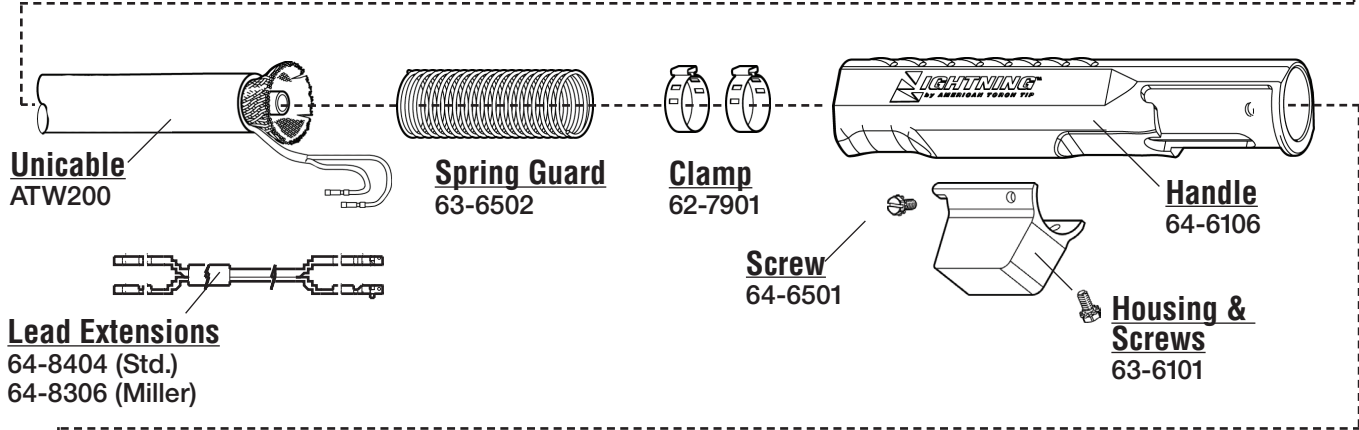




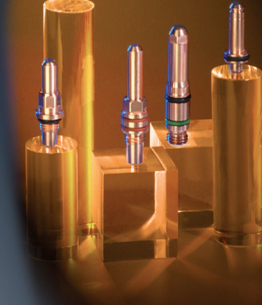
2 COMPATIBLE WITH TWECO 200AMP



MIG



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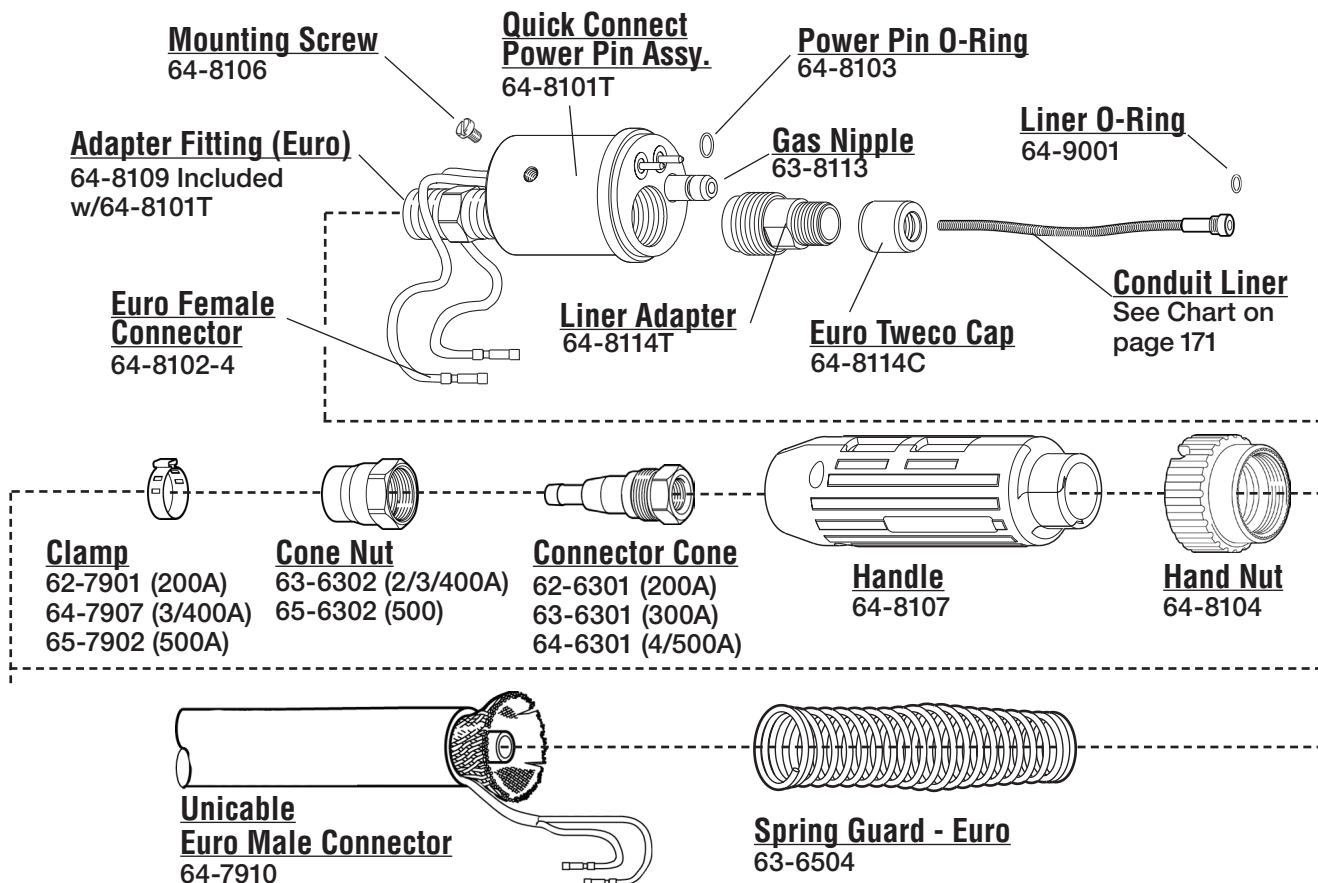


218

T-200 MIG GUN®

T-200 COMPATIBLE WITH TWECO 200AMP

MIG

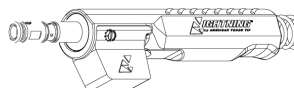


POWER PINS ASSEMBLY (Rear)

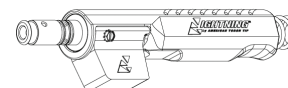
Bernard Power Pin
64-8501



Thermal Arc. Power Pin
64-8901



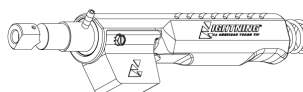
Tweco #5 Power Pin
64-8212



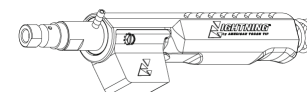
Euro Power Pin
64-8100T



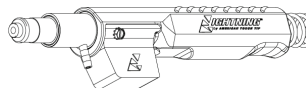
Hitachi Power Pin
64-8422



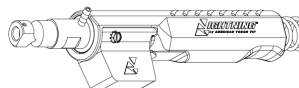
Daiden Power Pin
64-8602



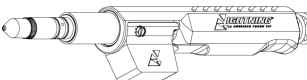
Lincoln Power Pin
64-8401T



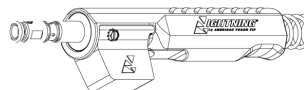
Panasonic Power Pin
64-8702



Miller Power Pin
64-8301 (.035 - 1/16)T
64-8302 (5/64 - 3/32)T



Std. Power Pin
64-8201T



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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS

AMERICAN TORCH TIP **ATTC**[®]

MIG
MIG DIVISION OF AMERICAN TORCH TIP

219



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220

T-300/400 MIG GUN®

COMPATIBLE WITH TWECO 300/400AMP

MIG

1. NOZZLES

I.D.

A	24A-50	Nozzle Adjustable	1/2"	(12.7mm)
	24A-62	Nozzle Adjustable	5/8"	(15.9mm)
	24A-75	Nozzle Adjustable	3/4"	(19.1mm)
	24AH-50	Nozzle Adj. Heavy-Duty	1/2"	(12.7mm)
	24AH-62	Nozzle Adj. Heavy-Duty	5/8"	(15.9mm)
	24AH-75	Nozzle Adj. Heavy-Duty	3/4"	(19.1mm)
	24A-37-SS	Nozzle Adj. Short Stop	3/8"	(9.5mm)
	24A-50-SS	Nozzle Adj. Short Stop	1/2"	(12.7mm)
	24A-62-SS	Nozzle Adj. Short Stop	5/8"	(15.9mm)
	24A-75-SS	Nozzle Adj. Short Stop	3/4"	(19.1mm)
B	24AH-50-SS	Nozzle Adj. H.D. Short Stop	1/2"	(12.7mm)
	24AH-62-SS	Nozzle Adj. H.D. Short Stop	5/8"	(15.9mm)
	24AH-75-SS	Nozzle Adj. H.D. Short Stop	3/4"	(19.1mm)
	24AT-37-SS	Nozzle Adj. Tapered S.S.	3/8"	(9.5mm)
C	23-37	Nozzle Insulated	3/8"	(9.5mm)
	23-50	Nozzle Insulated	1/2"	(12.7mm)
	23-62	Nozzle Insulated	5/8"	(15.9mm)
	23-75	Nozzle Insulated	3/4"	(19.1mm)
	23H-50	Nozzle Insul. Heavy-Duty	1/2"	(12.7mm)
	23H-62	Nozzle Insul. Heavy-Duty	5/8"	(15.9mm)
	23H-75	Nozzle Insul. Heavy-Duty	3/4"	(19.1mm)
	23T-37	Nozzle Insulated Tapered	3/8"	(9.5mm)
D	23-37-F	Nozzle Insulated Flush	3/8"	(9.5mm)
	23-50-F	Nozzle Insulated Flush	1/2"	(12.7mm)
	23-62-F	Nozzle Insulated Flush	5/8"	(15.9mm)
	23-75-F	Nozzle Insulated Flush	3/4"	(19.1mm)
	23T-37-F	Nozzle Insul. Tapered Flush	3/8"	(9.5mm)
E	24CT-37-S	Nozzle Coarse Thread	3/8"	(9.5mm)
	24CT-50-S	Nozzle Coarse Thread	1/2"	(12.7mm)
	24CT-62-S+	Nozzle Coarse Thread	5/8"	(15.9mm)
	24CT-75-S+	Nozzle Coarse Thread	3/4"	(19.1mm)

2. INSULATORS

A	34A	Insulator for Adjustable Nozzles
B	34CT	Insulator for Coarse Threaded Nozzles

3. CONTACT TIPS

I.D.

A	14-23	Contact Tip	.023	(0.6mm)	.028
	14-30	Contact Tip	.030	(0.8mm)	.037
	14-35	Contact Tip	.035	(0.9mm)	.043
	14-40	Contact Tip	.040	(1.0mm)	.048
	14-45	Contact Tip	.045	(1.2mm)	.055
	14-52	Contact Tip	.052	(1.3mm)	.063
	14-116	Contact Tip	1/16"	(1.6mm)	.073
	14-564	Contact Tip	5/64"	(2.0mm)	.093
	14A-364	Contact Tip	3/64"Al.	(1.2mm)	.059
	14A-116	Contact Tip	1/16"Al	(1.6mm)	.081

3. CONTACT TIPS (CONT.)

I.D.

+ Available with spatter resis					
B	14T-23	Contact Tip Tapered	.023	(0.6mm)	.028
	14T-30	Contact Tip Tapered	.030	(0.8mm)	.037
	14T-35	Contact Tip Tapered	.035	(0.9mm)	.043
	14T-40	Contact Tip Tapered	.040	(1.0mm)	.048
	14T-45	Contact Tip Tapered	.045	(1.2mm)	.055
	14T-52	Contact Tip Tapered	.052	(1.3mm)	.063
	14T-116	Contact Tip Tapered	1/16"	(1.6mm)	.073
	14H-30				
C	14H-35*	Contact Tip H.D.	.035	(0.9mm)	.043
	14H-40*	Contact Tip H.D.	.040	(1.0mm)	.048
	14H-45*	Contact Tip H.D.	.045	(1.2mm)	.055
	14H-52*	Contact Tip H.D.	.052	(1.3mm)	.063
	14H-116*	Contact Tip H.D.	1/16"	(1.6mm)	.073
	14H-564*	Contact Tip H.D.	5/64"	(2.0mm)	.093
	14H-332*	Contact Tip H.D.	3/32"	(2.4mm)	.110
	14AH-364	Contact Tip H.D.	364"Al.	(1.2mm)	.059
	14AH-116	Contact Tip H.D.	1/16"Al.	(1.6mm)	.078

4. GAS DIFFUSERS

54A	Gas Diffuser
-----	--------------

5. CONDUCTOR TUBES

A	74A	Conductor Tube Insulation
B	63-45	Conductor Tube 45° For #3
	63-60	Conductor Tube 60° For #3
	63-80	Conductor Tube 80° For #3
	63-180	Conductor Tube 180° For #3
C	64A-45	Conductor Tube 45° For #4
	64A-60	Conductor Tube 60° For #4
	64A-80	Conductor Tube 80° For #4
	64A-180	Conductor Tube 180° For #4
D	64N	Nipple

LINERS

I.D. O.D.

44-116-15	Liner Assy.	15' 1/16"	.076	.188
44-116-25	Liner Assy.	25' 1/16"	.076	.188
44-3545-15	Liner Assy.	15' .035-.045	.066	.188
44-3545-25	Liner Assy.	25' .035-.045	.066	.188
44-564-15	Liner Assy.	15' 5/64"	.098	.188
44-564-25	Liner Assy.	25' 5/64"	.098	.188
44N-116-15	Liner Assy. Nylon	15' 1/16"	.100	.185
44N-3545-15	Liner Assy. Nylon	15' .035-.045	.066	.188
44TF-116-15	Liner Assy. Teflon	15' 1/16"	.106	.185

*Liners are not shown.

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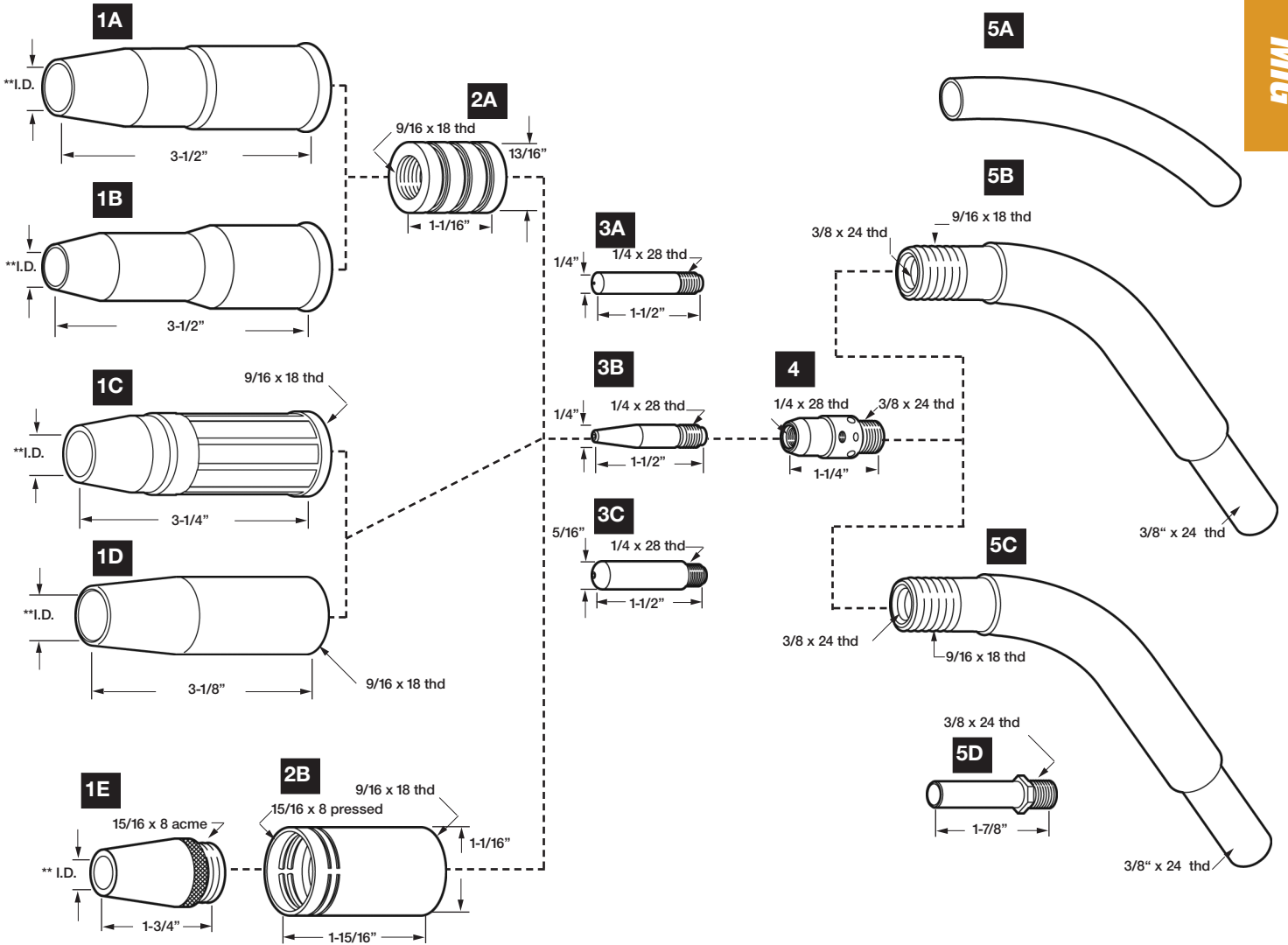
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221

T-300/400 MIG GUN®

COMPATIBLE WITH TWECO 300/400AMP



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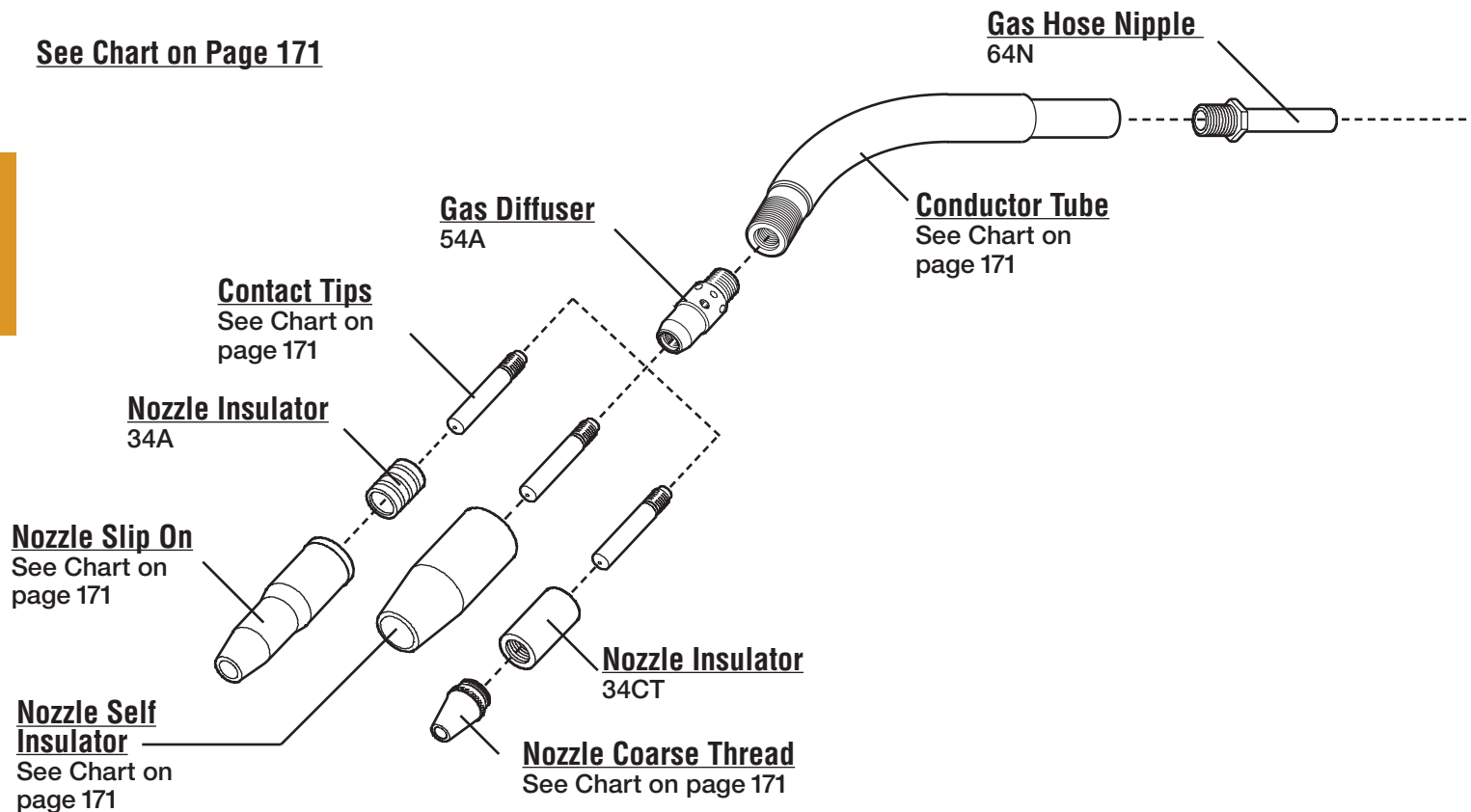
222

T-300 MIG GUN®

COMPATIBLE WITH TWECO 300 AMP

See Chart on Page 171

MIG



RATING:

200A C02 150A MIXED GAS

@ 100% DUTY CYCLE

.023" 0.6mm TO .045" 1.2mm WIRE

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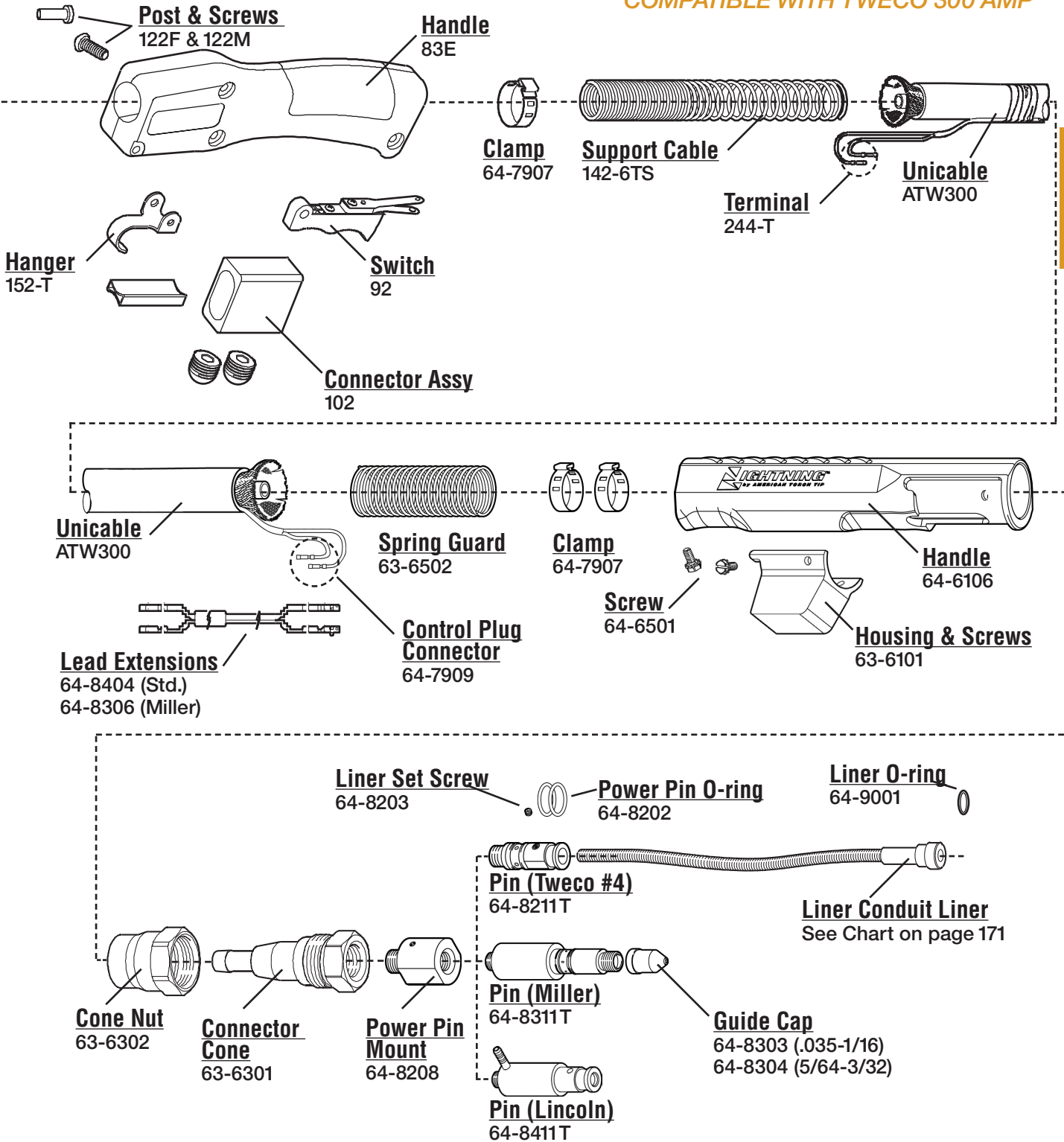
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223

T-300 MIG GUN®

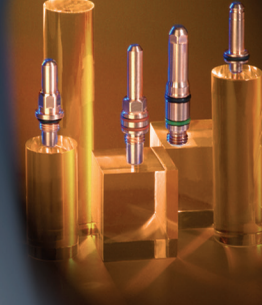
COMPATIBLE WITH TWECO 300 AMP



MIG

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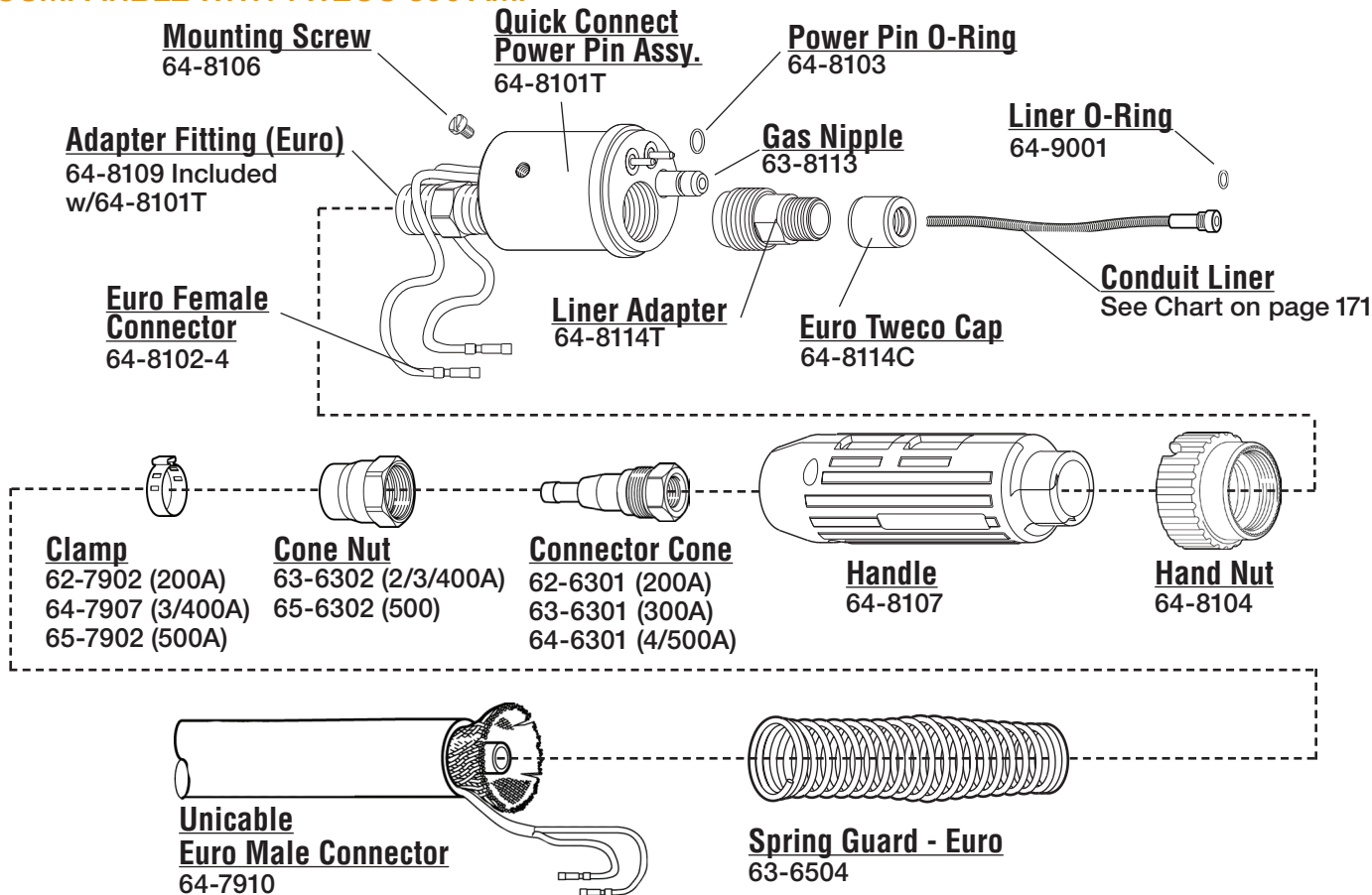


224

T-300 MIG GUN®

COMPATIBLE WITH TWECO 300 AMP

MIG

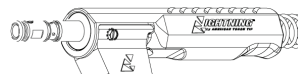


POWER PINS ASSEMBLY (Rear)

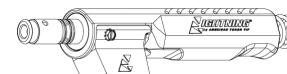
Bernard Power Pin
64-8501



Thermal Arc. Power Pin
64-8901



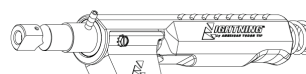
Tweco #5 Power Pin
64-8212



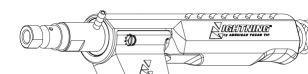
Euro Power Pin
64-8100T



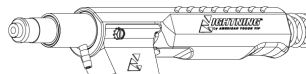
Hitachi Power Pin
64-8422



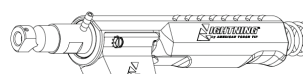
Daiden Power Pin
64-8602



Lincoln Power Pin
64-8401T



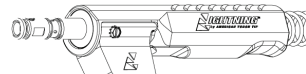
Panasonic Power Pin
64-8702



Miller Power Pin
64-8301T (.035 - 1/16)
64-8302T (5/64 - 3/32)



Std. Power Pin
64-8201T



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225

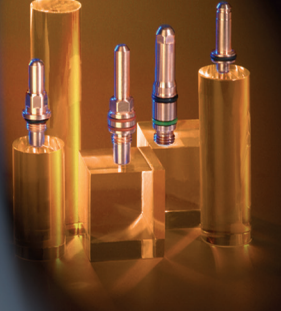
MIG



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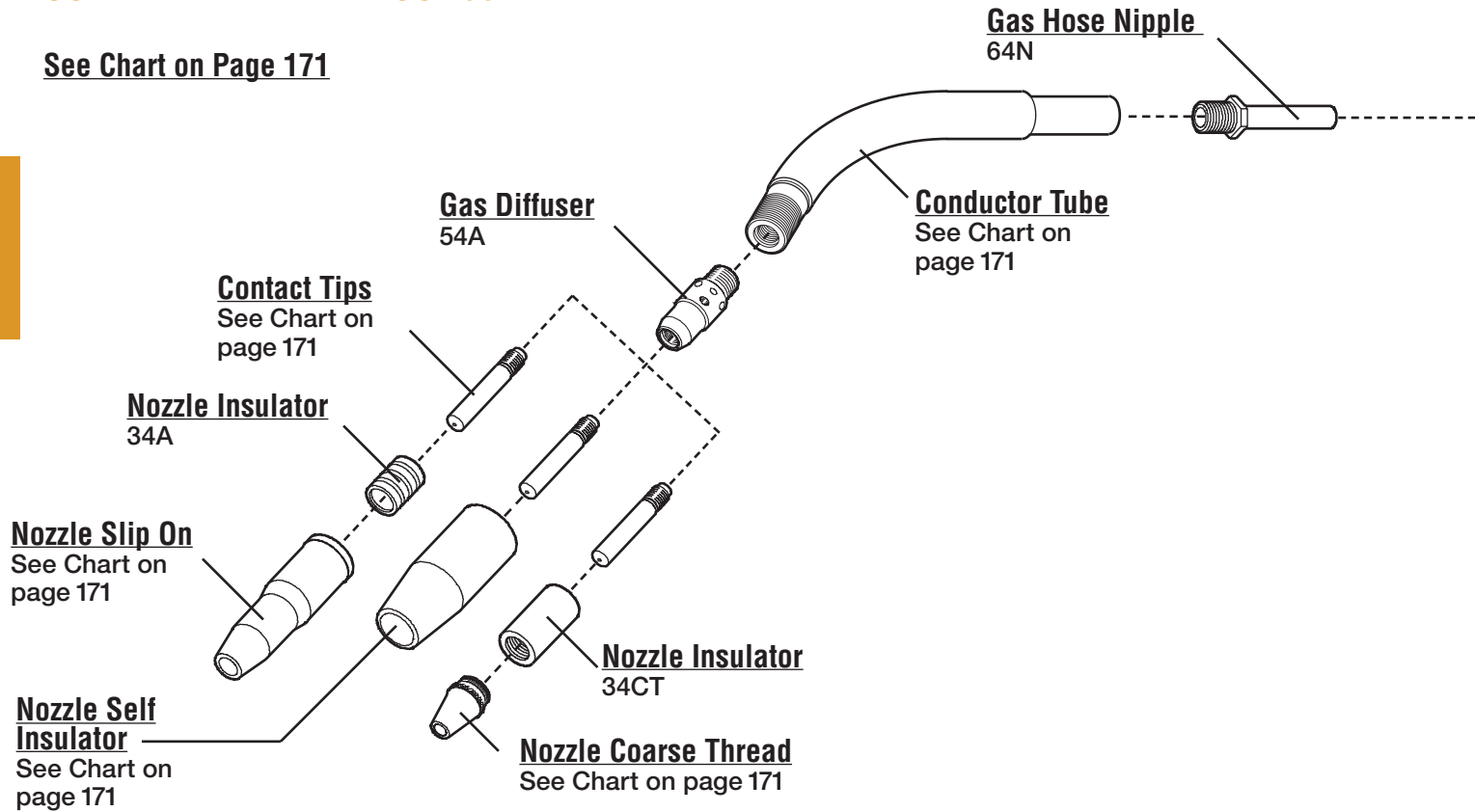
226

T-400 MIG GUN®

COMPATIBLE WITH TWECO 400 AMP

See Chart on Page 171

MIG



RATING:
200A CO₂ 150A MIXED GAS
@ 100% DUTY CYCLE
.023" 0.6mm TO .045" 1.2mm WIRE

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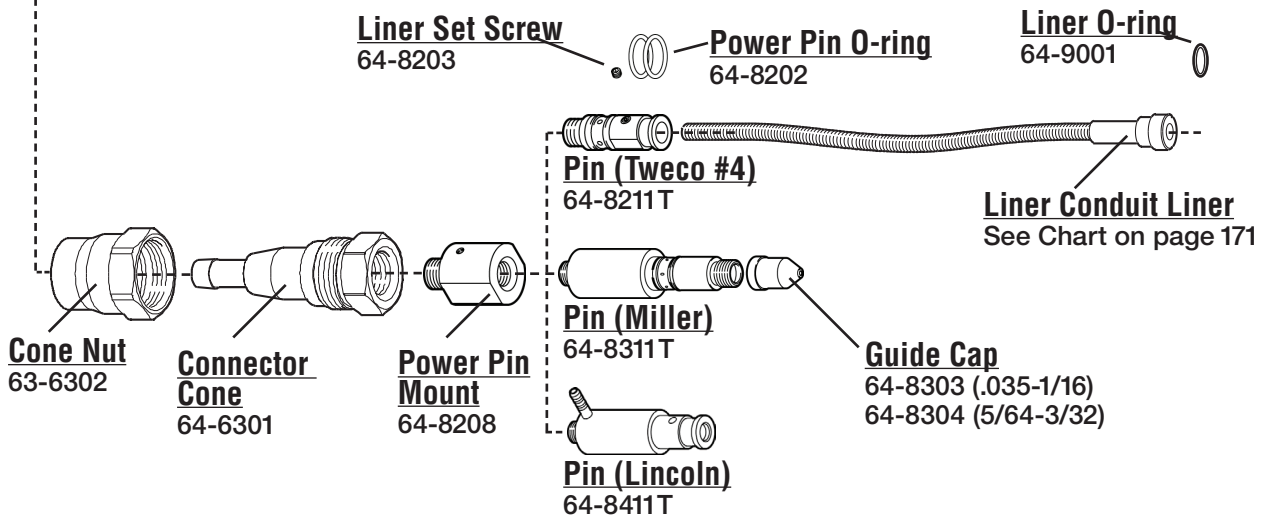
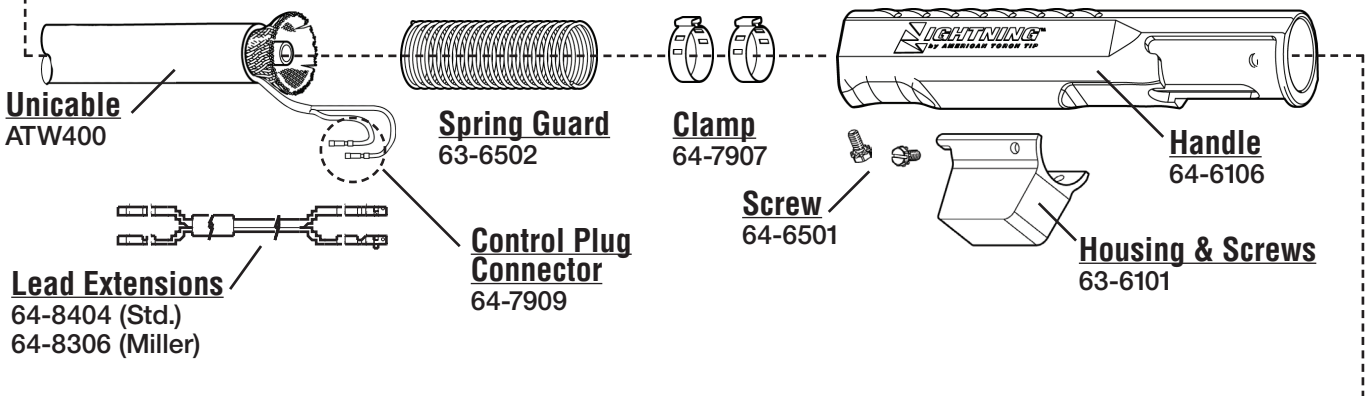
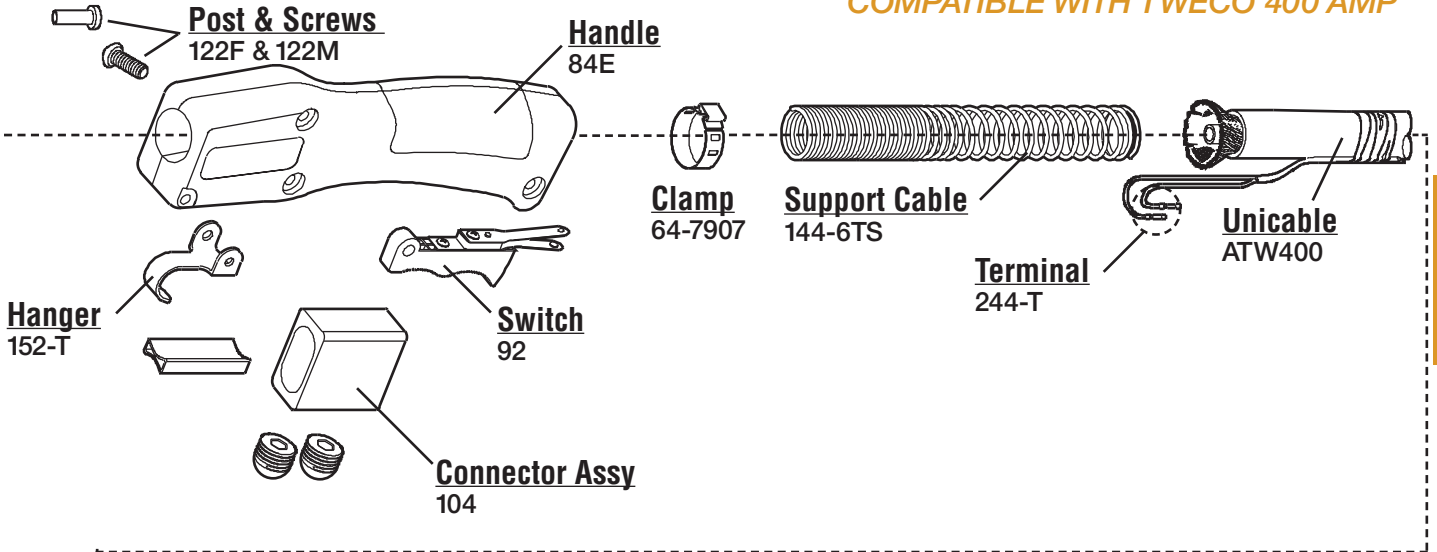


227

T-400 MIG GUN®

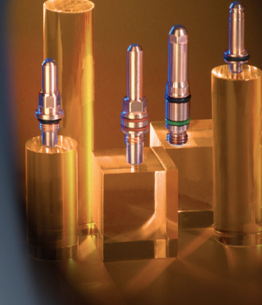
COMPATIBLE WITH TWECO 400 AMP

MIG



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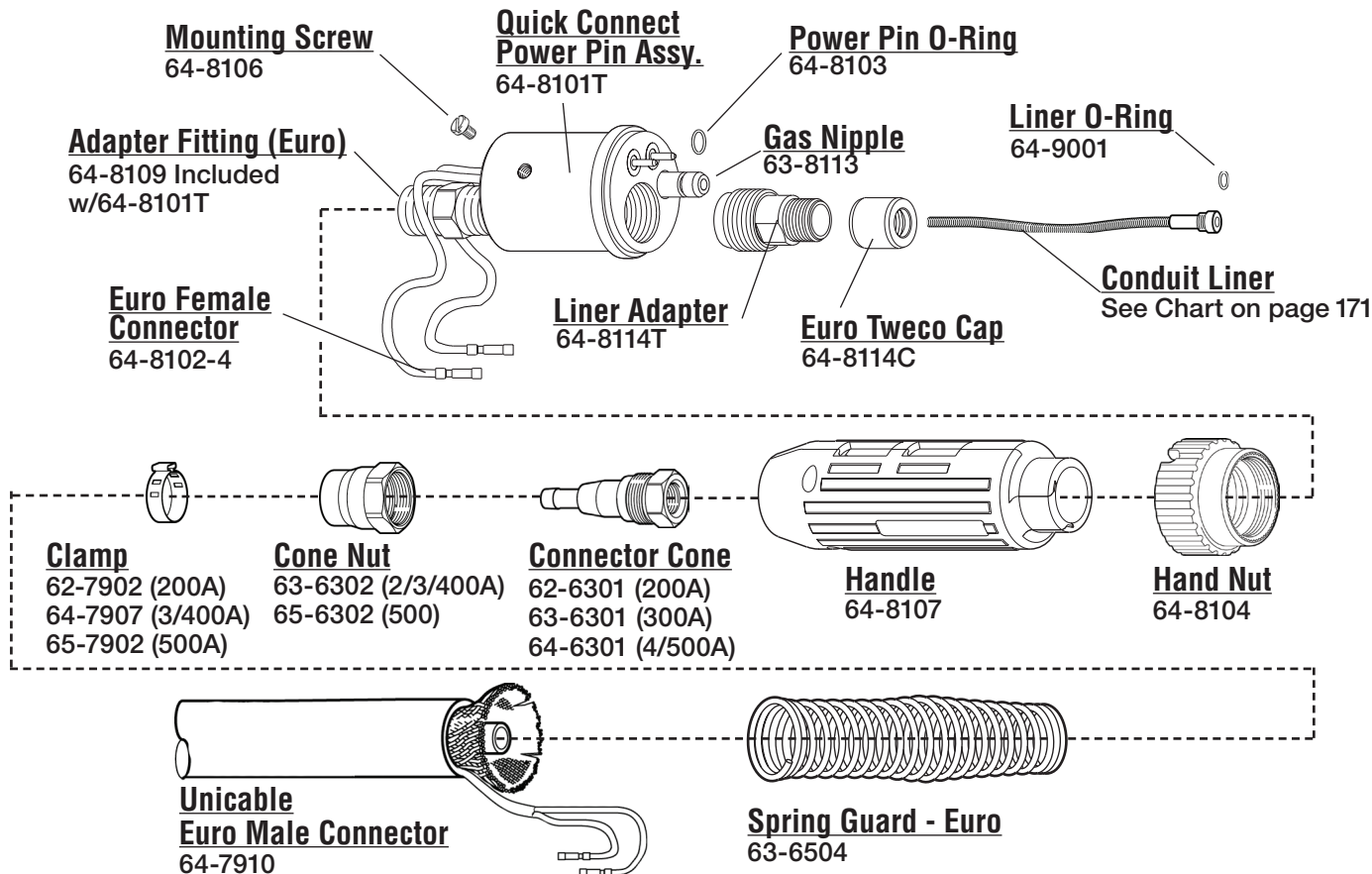


228

T-400 MIG GUN®

COMPATIBLE WITH TWECO 400 AMP

MIG



POWER PINS ASSEMBLY (Rear)

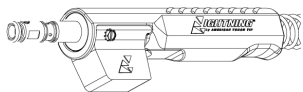
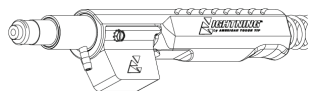
Bernard Power Pin
64-8501



Euro Power Pin
64-8100T

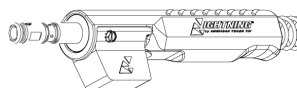


Lincoln Power Pin
64-8401T

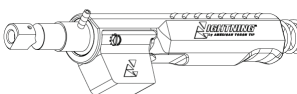


Std. Tweco #4 Power Pin
For Lightning, Tweco & Tregaskiss
64-8201T

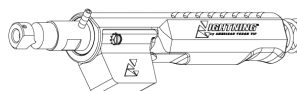
Thermal Arc. Power Pin
64-8901



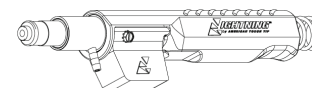
Hitachi Power Pin
64-8422



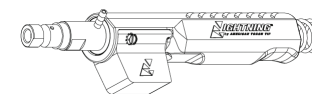
Panasonic Power Pin
64-8702



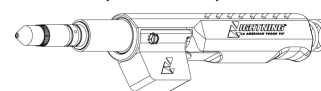
Tweco #5 Power Pin
64-8212



Daiden Power Pin
64-8602



Miller Power Pin
64-8301 (.035 - 1/16)T
64-8302 (5/64 - 3/32)T



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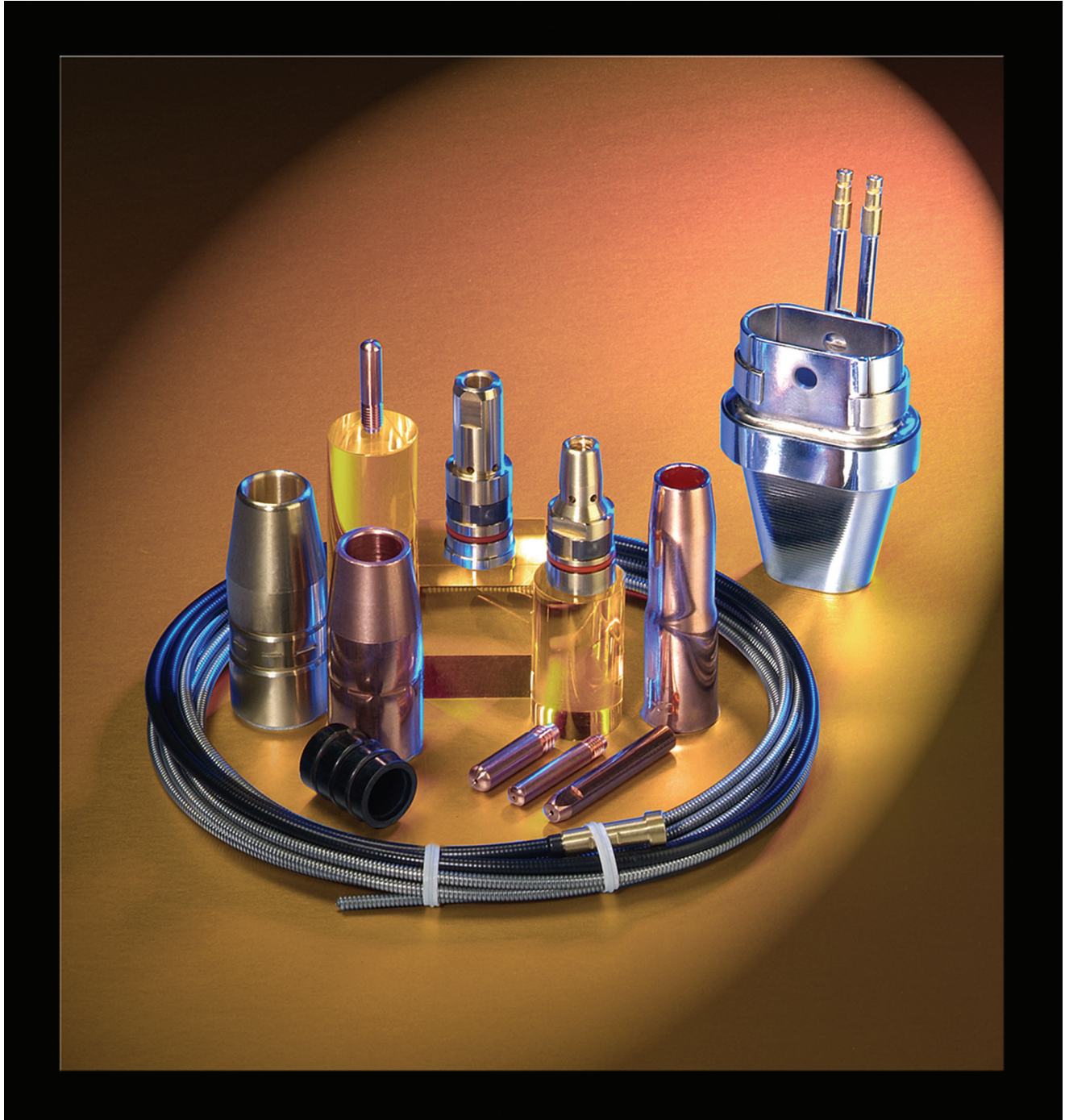
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AMERICAN TORCH TIP ATTC



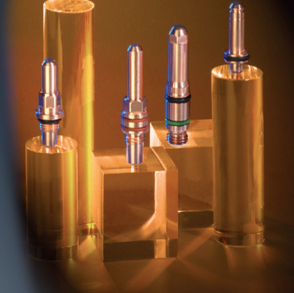
229

MIG



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230

TWECO®

5-6 COMPATIBLE WITH TWECO 500 AMP

1. NOZZLES I.D.

25CT-50	Nozzle Coarse Thread	1/2"	(12.7mm)
25CT-62	Nozzle Coarse Thread	5/8"	(15.9mm)
25CT-75	Nozzle Coarse Thread	3/4"	(19.1mm)

2. INSULATORS

35CT	Nozzle Insulator Coarse Thread
------	--------------------------------

3. CONTACT TIPS I.D.

A	15AH-364	Contact Tip H.D.	3/64" Al.	(1.2mm)	.059
	15AH-116	Contact Tip H.D.	1/16" Al.	(1.6mm)	.081
	15H-35	Contact Tip H.D.	.035	(0.9mm)	.043
	15H-45	Contact Tip H.D.	.045	(1.2mm)	.055
	15H-52	Contact Tip H.D.	.052	(1.3mm)	.063
	15H-116	Contact Tip H.D.	1/16"	(1.6mm)	.073
	15H-564	Contact Tip H.D.	5/64"	(2.0mm)	.093
	15H-332	Contact Tip H.D.	3/32"	(2.4mm)	.110
	15H-764	Contact Tip H.D.	7/64"	(2.8mm)	.120
	15H-18	Contact Tip H.D.	1/8"	(3.2mm)	.144
B	15AHFC-364	Con. Tip H.D. F-C	3/64" Al.	(1.2mm)	.059
	15AHFC-116	Con. Tip H.D. F-C	1/16" Al.	(1.6mm)	.081
	15HFC-35	Con. Tip H.D. F-C	.035	(0.9mm)	.043
	15HFC-45	Con. Tip H.D. F-C	.045	(1.2mm)	.055
	15HFC-52	Con. Tip H.D. F-C	.052	(1.3mm)	.063
	15HFC-116	Con. Tip H.D. F-C	.116	(1.6mm)	.073
	15HFC-564	Con. Tip H.D. F-C	5/64"	(2.0mm)	.093
	15HFC-332	Con. Tip H.D. F-C	3/32"	(2.4mm)	.110
	15HFC-764	Con. Tip H.D. F-C	7/64"	(2.8mm)	.120
	15HFC-18	Con. Tip H.D. F-C	1/8"	(3.2mm)	.144
C	16-116	Contact Tip	1/16"		
	16-18	Contact Tip	1/8"		
	16-332	Contact Tip	3/32"		
	16-564	Contact Tip	5/64"		
	16-764	Contact Tip	7/64"		
	16S-116	Contact Tip	1/16"		
	16S-18	Contact Tip	1/8"		
	16S-332	Contact Tip	3/32"		
	16S-35	Contact Tip	.035"		
	16S-45	Contact Tip	.045"		
16S-52	Contact Tip	.052"			
16S-564	Contact Tip	5/64"			
16S-764	Contact Tip	7/64"			

4. GAS DIFFUSERS

55	Gas Diffuser - Use with 45N-116, 45-564 Liners
55H	Gas Diffuser - Use with 45H-332, 45H-764 Liners
55SW	Gas Diffuser - Use with 45-3545, 45-116 Liners

5. CONDUCTOR TUBES & EXTENSIONS

65-45	Conductor Tube 45° 5" radius bend
65-60	Conductor Tube 60° 5" radius bend
65-80	Conductor Tube 80° 5" radius bend
65-180	Conductor Tube 180° 5" radius bend
65-45-3R	Conductor Tube 45° 3" radius bend
65-60-3R	Conductor Tube 60° 3" radius bend
65-80-3R	Conductor Tube 80° 3" radius bend
65EX-45	Conductor Tube Extension 45°
65EX-60	Conductor Tube Extension 60°
65J-45	Conductor Tube 45° Jacketed
65J-60	Conductor Tube 60° Jacketed

LINERS - NOT SHOWN I.D. O.D.

45-116-15	Liner Assy. 15'	1/16"	.076	.188
45-116-25	Liner Assy. 25'	1/16"	.076	.188
45-3545-15	Liner Assy. 15'	.035-.045	.066	.188
45-3545-25	Liner Assy. 25'	.035-.045	.066	.148
45-564-15	Liner Assy. 15'	5/64"	.098	.238
45-564-25	Liner Assy. 25'	5/64"	.098	.238
45H-332-15	Liner Assy. 15'	3/32"	.124	.268
45H-764-15	Liner Assy. 15'	7/64"	.130	.268
45N-116-15	Liner Assy. 15'	1/16"	.100	.185
45N-3545-15	Liner Assy. 15'	.035-.045	.066	.188
65-4725	Liner Assy. 25'			
65-4715	Liner Assy. 15'	5/64"-3/32"		

*Liners are not shown

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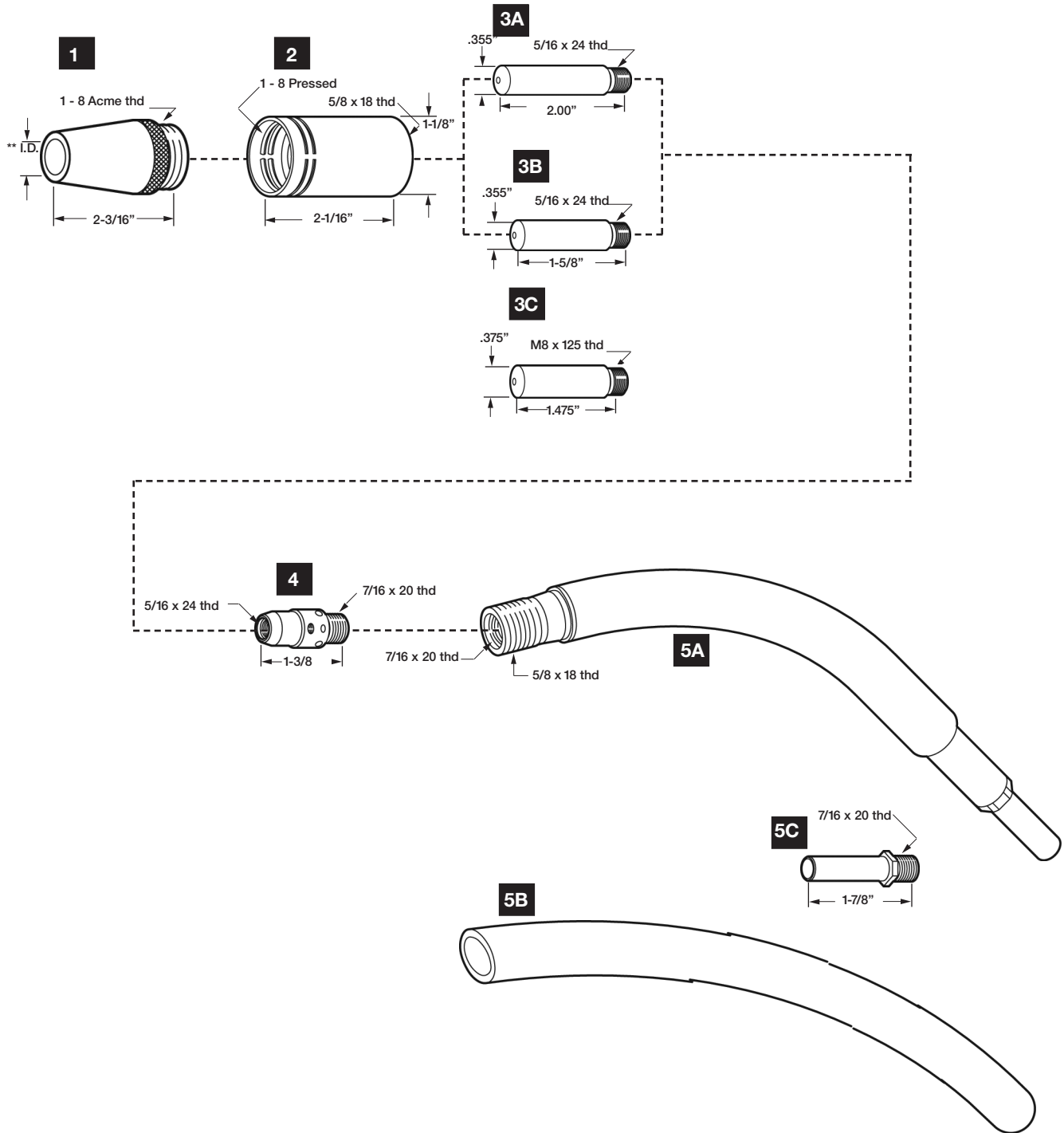
YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS



231

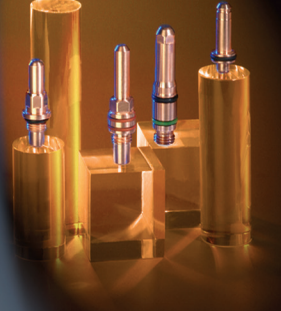
TWECO®

5-6 COMPATIBLE WITH TWECO 500 AMP



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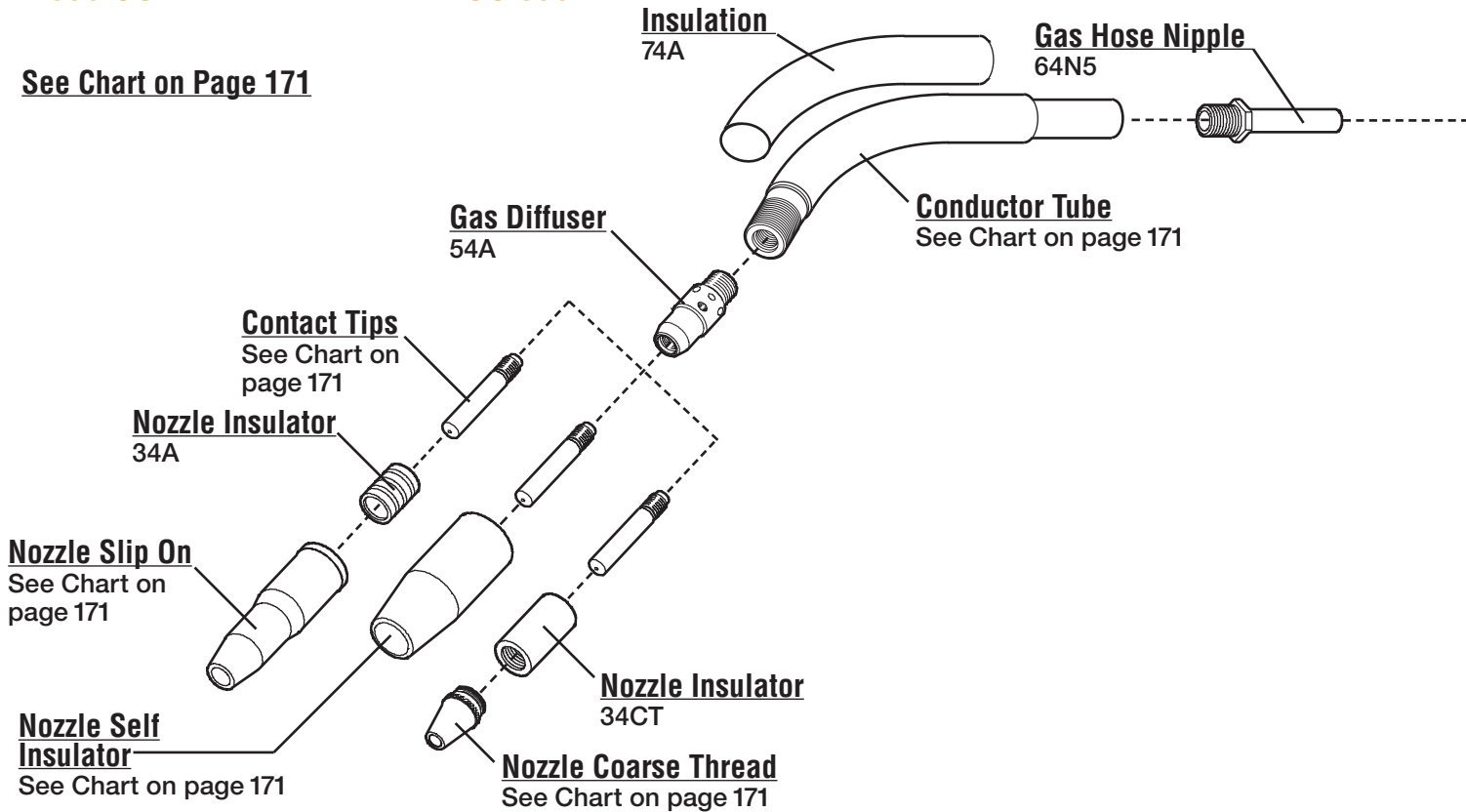
232

T-500 MIG GUN®

T-500 COMPATIBLE WITH TWECO 500AMP

See Chart on Page 171

MIG



RATING:
400A C02 300A MIXED GAS
@ 100% DUTY CYCLE
130" 0.8mm TO 5/64" 2.0mm WIRE

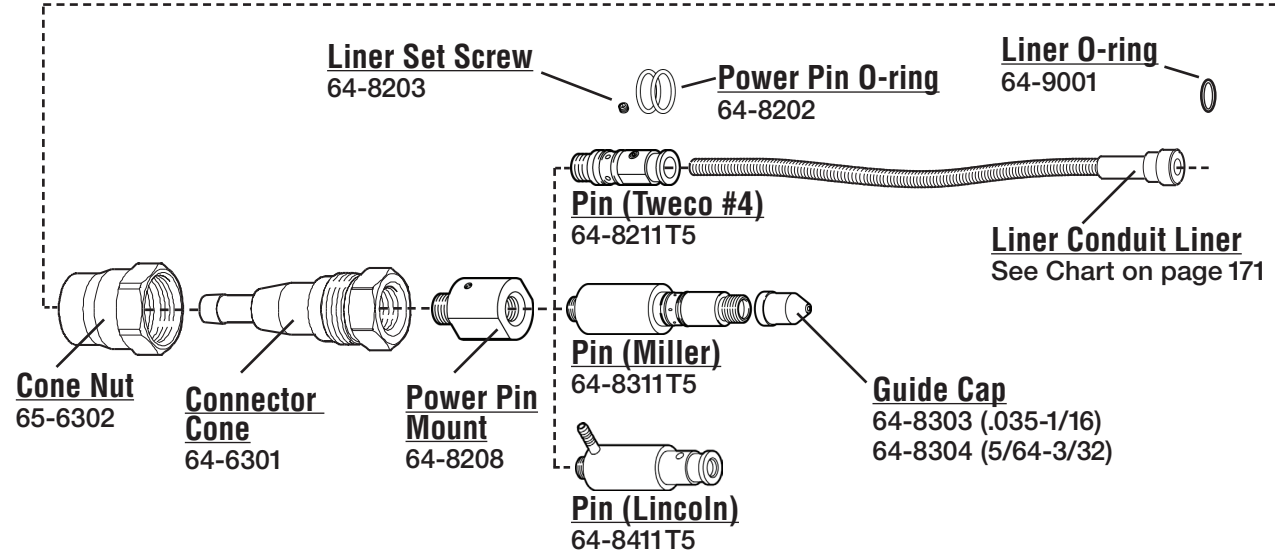
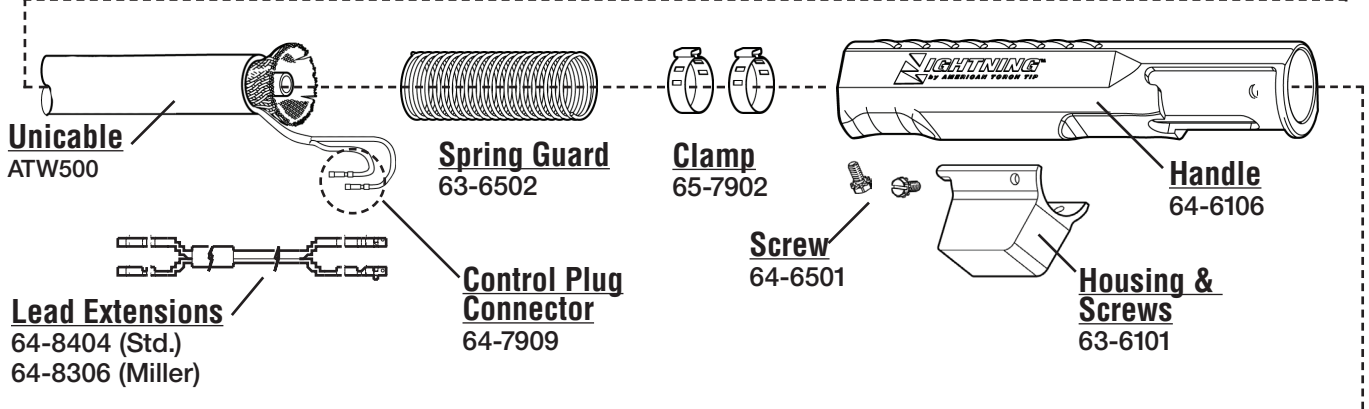
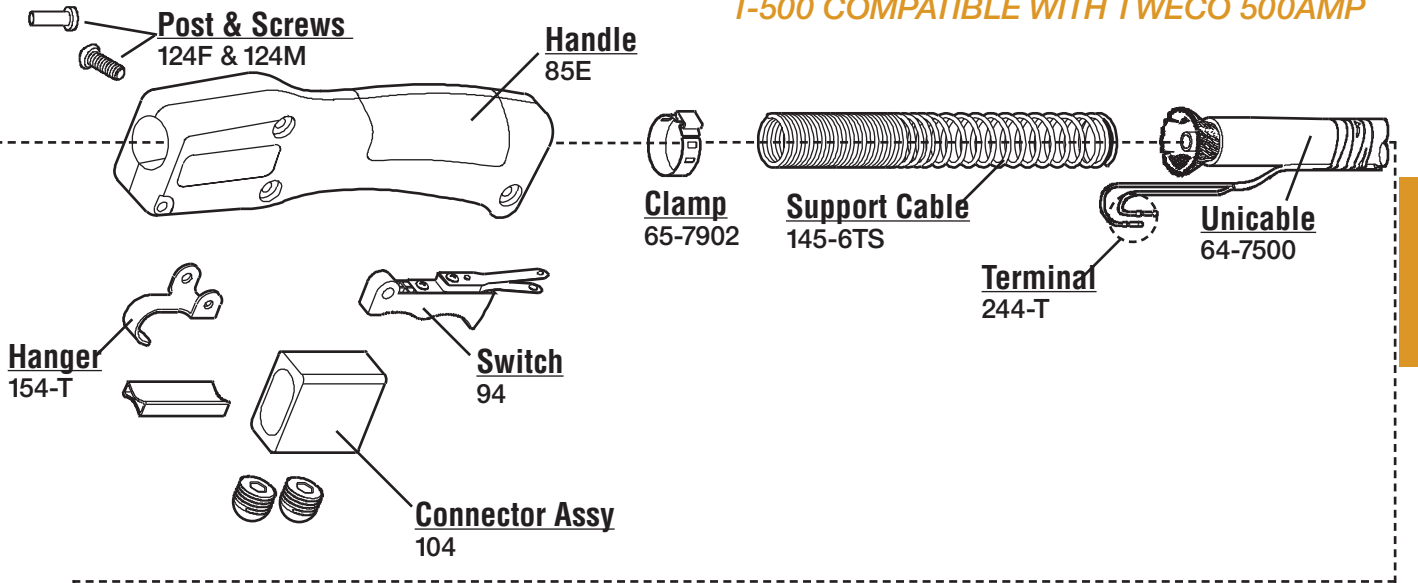
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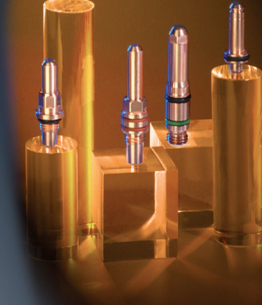


T-500 COMPATIBLE WITH TWECO 500AMP

MIG



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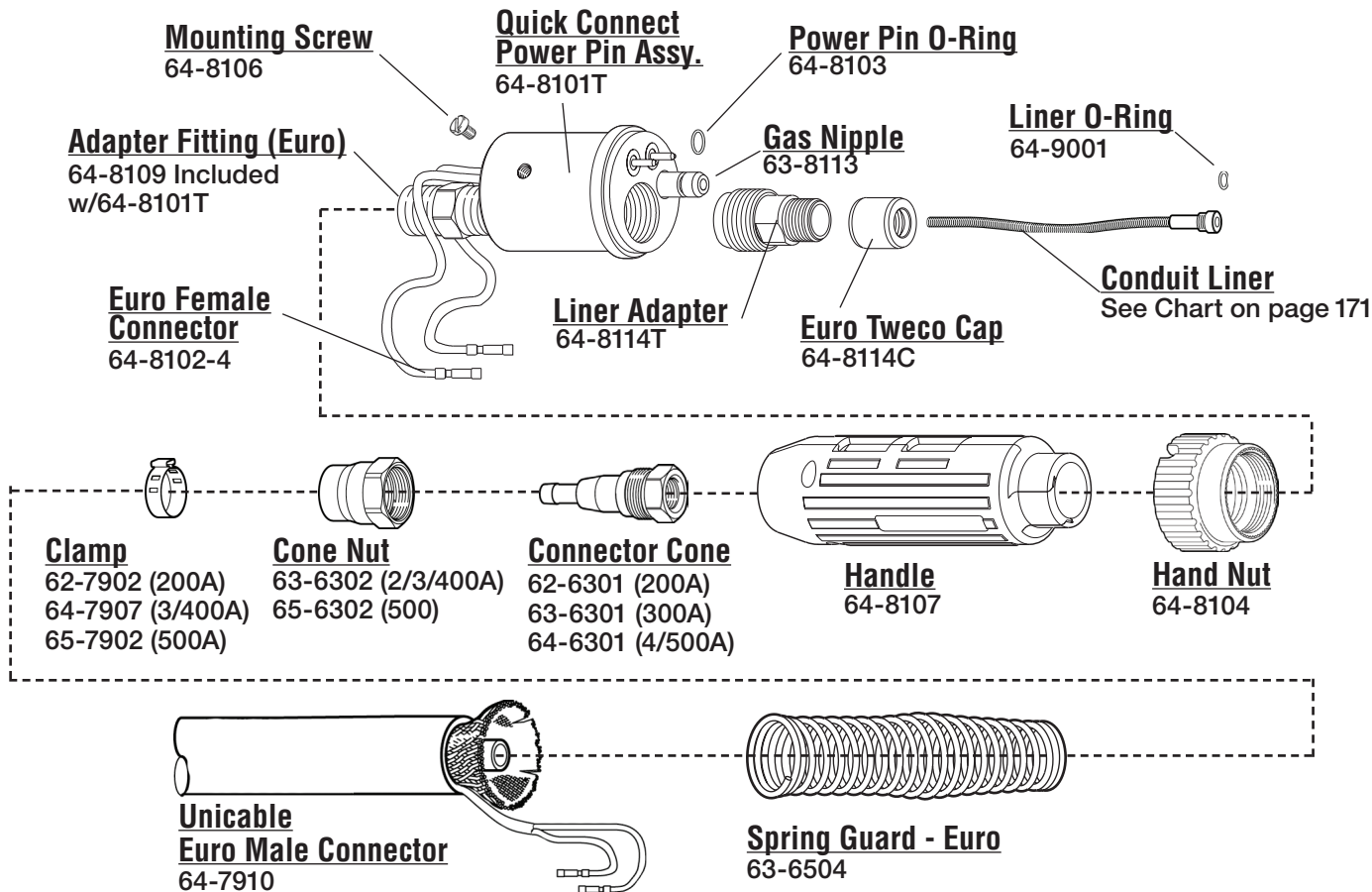


234

T-500 MIG GUN®

T-500 COMPATIBLE WITH TWECO 500AMP

MIG



POWER PINS ASSEMBLY (Rear)

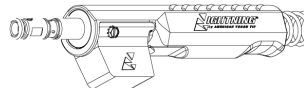
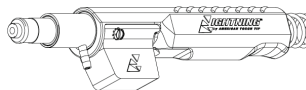
Bernard Power Pin
64-8501



Euro Power Pin
64-8100T

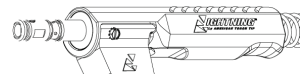


Lincoln Power Pin
64-8401T5

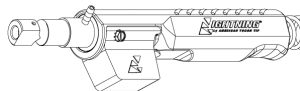


Std. Tweco #4 Power Pin
For Lightning, Tweco & Tregaskiss
64-8201T5

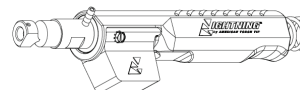
Thermal Arc. Power Pin
64-8901T5



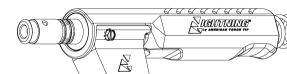
Hitachi Power Pin
64-8422T5



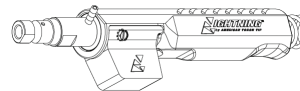
Panasonic Power Pin
64-8702T5



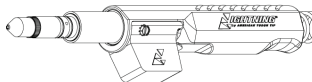
Tweco #5 Power Pin
64-8212T5



Daiden Power Pin
64-8602T5



Miller Power Pin
64-8301T5 (.035 - 1/16)
64-8302T5 (5/64 - 3/32)



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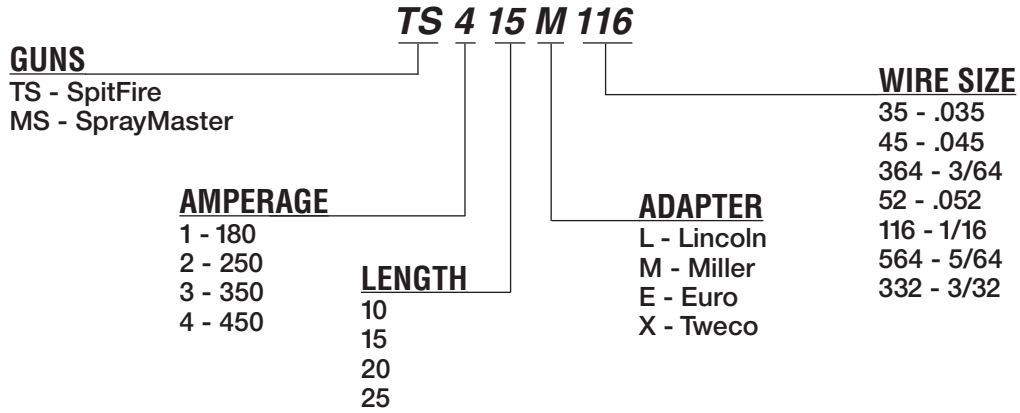
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235

SPITFIRE® / SPRAY MASTER

SPITFIRE & SPRAY MASTER GUN PART NUMBERING SYSTEM



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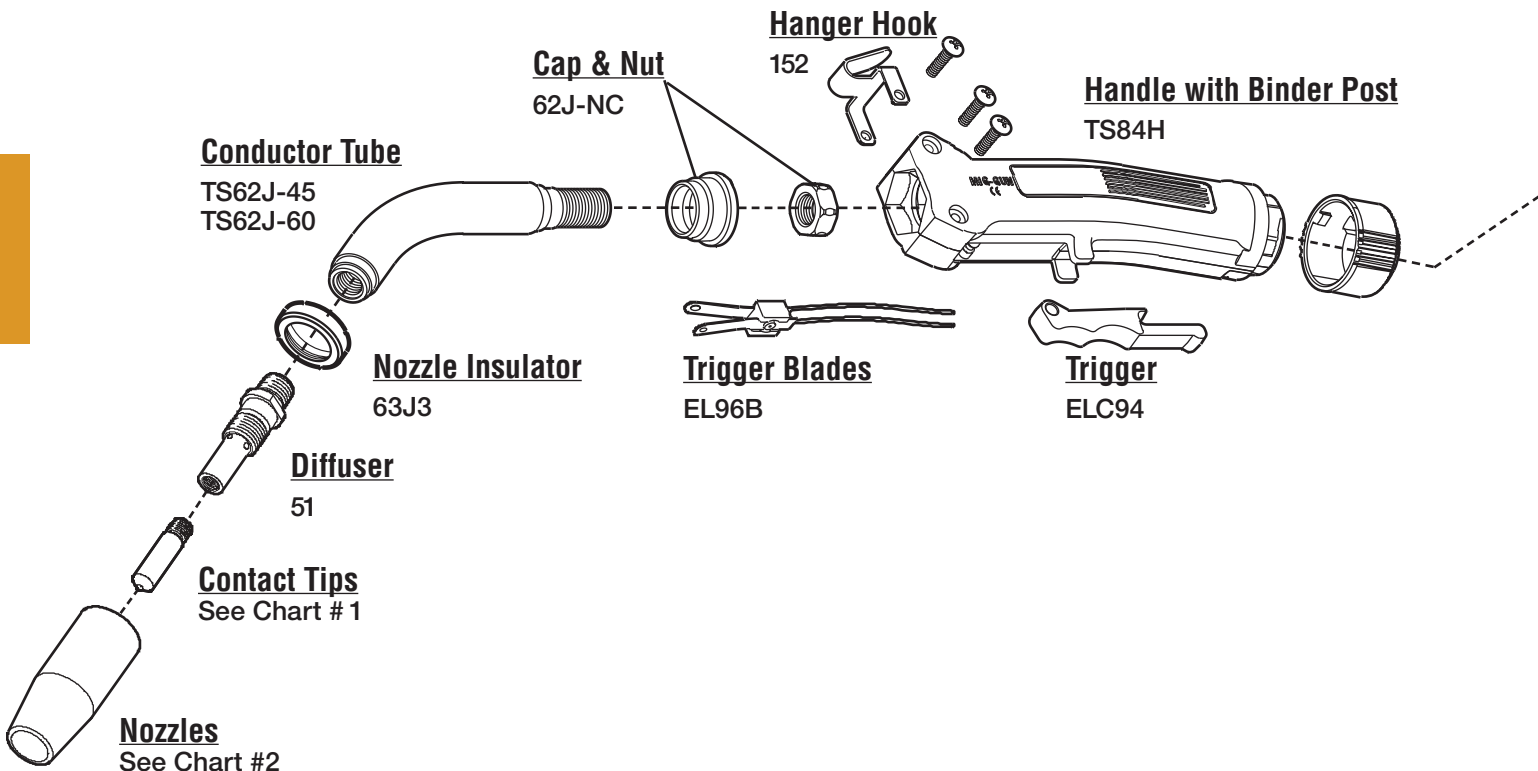




236

TWECO®

COMPATIBLE WITH SPITFIRE 180 AMP MIG GUN



MIG

1. CONTACT TIPS

I.D.

11-23	Contact Tip	.023	(0.6mm)	.028
11-30	Contact Tip	.030	(0.8mm)	.037
11-35	Contact Tip	.035	(0.9mm)	.043
11-40	Contact Tip	.040	(1.0mm)	.048
11-45	Contact Tip	.045	(1.2mm)	.055

3. LINERS

I.D.

42-3035-15	Liner Assy.	15'	.023-.035	.053	.15
42-3035-25	Liner Assy.	25'	.030-.035	.053	.156
42-4045-15	Liner Assy.	15'	.040-.045	.059	.156
42-4045-25	Liner Assy.	25'	.040-.045	.059	.156

2. NOZZLES

I.D.

21-37	Nozzle Insul. 1/8" Recess	3/8"	(09.5mm)
21-50	Nozzle Insul. 1/8" Recess	1/2"	(12.7mm)
21-62	Nozzle Insul. 1/8" Recess	5/8"	(15.9mm)
21-37-F	Nozzle Insulated Flush	3/8"	(09.5mm)
21-50-F	Nozzle Insulated Flush	1/2"	(12.7mm)
21-62-F	Nozzle Insulated Flush	5/8"	(15.9mm)
21T-37	Nozzle Tapered 1/8" Recess	3/8"	(09.5mm)

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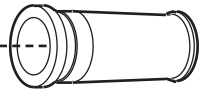


237

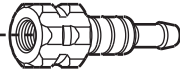
TWECO®

COMPATIBLE WITH SPITFIRE 180 AMP MIG GUN

MIG



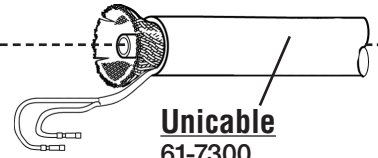
Cable Support Spring
TS25SR



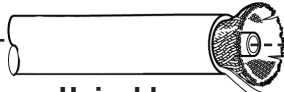
Barb Adaptor
TS100-2RK



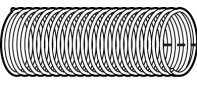
Ferrule
64-7916



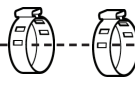
Unicable
61-7300



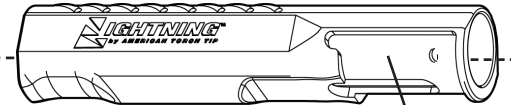
Unicable
61-7300



Spring Guard
63-6502



Clamp
62-7902



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)



Control Plug Connector
64-7909

Housing & Screws
63-6101



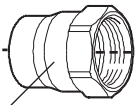
Handle
64-6106

Screws
64-6501

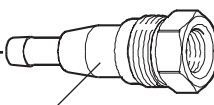
Liner Set Screw
64-8203

Power Pin O-ring
64-8202

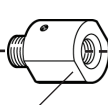
Liner O-ring
64-9001



Cone Nut
63-6302



Connector Cone
62-6301



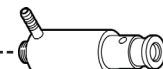
Power Pin Mount
64-8208



Pin (Tweco #4)
64-8211T



Pin (Miller)
64-8311T



Pin (Lincoln)
64-8411T



Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)



Liner Conduit Liner
See Chart # 3

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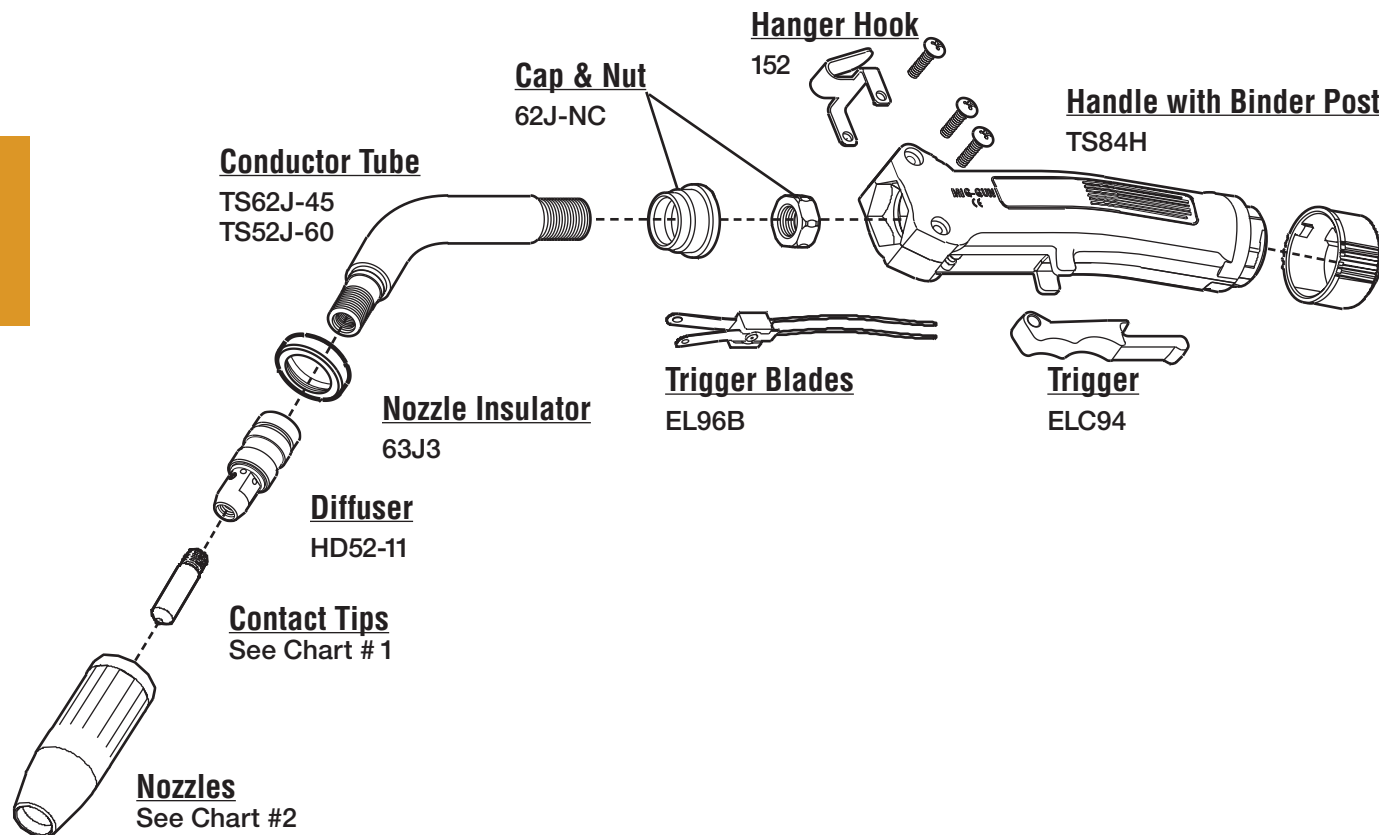


238

TWECO®

COMPATIBLE WITH SPITFIRE 250 AMP MIG GUN

MIG



1. CONTACT TIPS

I.D.

11H-35	Contact Tip H.D.	.035	(0.9mm)	.043
11H-40	Contact Tip H.D.	.040	(1.0mm)	.048
11H-45	Contact Tip H.D.	.045	(1.2mm)	.055

2. NOZZLES

I.D.

HD22-37	Nozzle Std. 1/8" Recess	3/8" (09.5mm)
HD22-50	Nozzle Std. 1/8" Recess	1/2" (12.7mm)
HD22-62	Nozzle Std. 1/8" Recess	5/8" (15.9mm)
HD22-37F	Nozzle Flush	3/8" (09.5mm)
HD22-50F	Nozzle Flush	1/2" (12.7mm)
HD22-62F	Nozzle Flush	5/8" (15.9mm)

3. LINERS

I.D.

42-3035-15	Liner Assy.	15'	.023-.035	.053	.15
42-3035-25	Liner Assy.	25'	.030-.035	.053	.156
42-4045-15	Liner Assy.	15'	.040-.045	.059	.156
42-4045-25	Liner Assy.	25'	.040-.045	.059	.156

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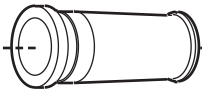


239

TWECO®

COMPATIBLE WITH SPITFIRE 250 AMP MIG GUN

MIG



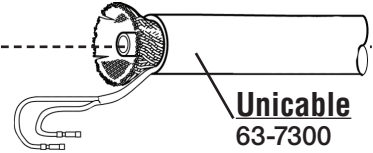
Cable Support Spring
TS25SR



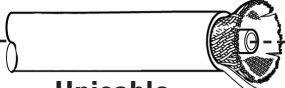
Barb Adaptor
TS100-4RK



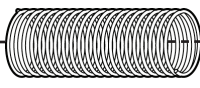
Ferrule
64-7916



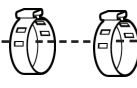
Unicable
63-7300



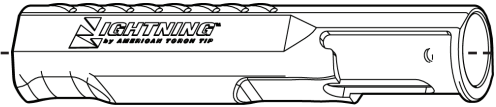
Unicable
63-7300



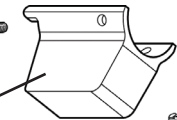
Spring Guard
63-6502



Clamp
62-7902



Housing & Screws
63-6101



Screws
64-6501

Handle
64-6106



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)

Control Plug Connector
64-7909

Liner Set Screw
64-8203

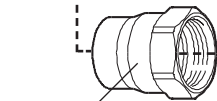
Power Pin O-ring
64-8202

Liner O-ring
64-9001

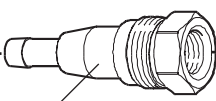


Pin (Tweco #4)
64-8211T

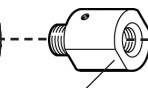
Liner Conduit Liner
See Chart # 3



Cone Nut
63-6302



Connector Cone
62-6301

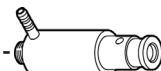


Power Pin Mount
64-8208



Pin (Miller)
64-8311T

Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)



Pin (Lincoln)
64-8411T

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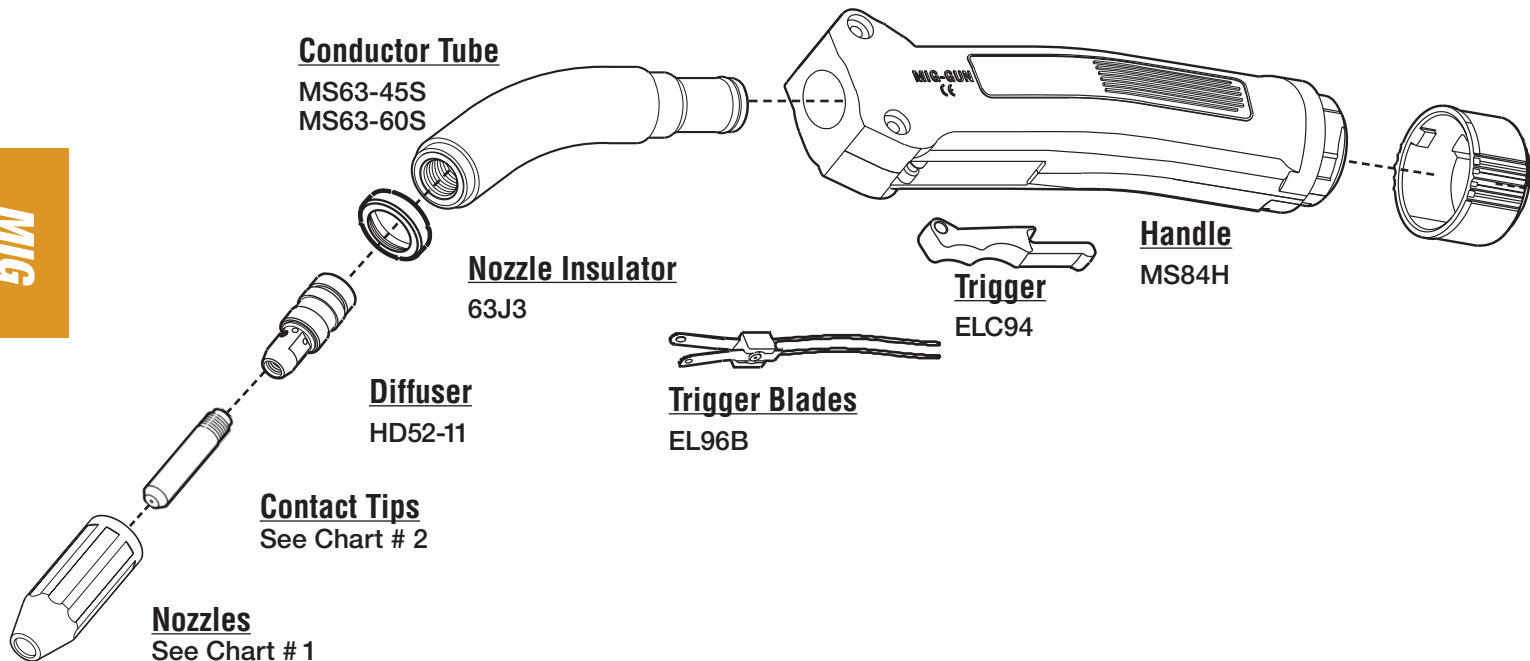




240

TWECO®

COMPATIBLE WITH SPRAY MASTER 250 AMP



MIG

1. NOZZLES

I.D.

A	HD22-37	Nozzle Std. 1/8" Recess	3/8" (09.5mm)
	HD22-50	Nozzle Std. 1/8" Recess	1/2" (12.7mm)
	HD22-62	Nozzle Std. 1/8" Recess	5/8" (15.9mm)
B	HD22-37F	Nozzle Flush	3/8" (09.5mm)
	HD22-50F	Nozzle Flush	1/2" (12.7mm)
	HD22-62F	Nozzle Flush	5/8" (15.9mm)

2. CONTACT TIP

I.D.

11-23	Contact Tip	.023	(0.6mm).028
11H-30	Contact Tip	.030	(0.8mm) .038
11H-35	Contact Tip	.035	(0.9mm).048
11H-40	Contact Tip	.040	(1.0mm) .038
11H-45	Contact Tip	.045	(1.2mm) .055
11H-364	Contact Tip	3/64"	(1.2mm)AL .059

3. LINERS

I.D.

42-116-15	Liner Assy.	15'	1/16"	.076	.188
42-116-25	Liner Assy.	25'	1/16"	.076	.188
42-3545-15	Liner Assy.	15'	.035-.045	.066	.188
42-3545-25	Liner Assy.	25'	.035-.045	.066	.188

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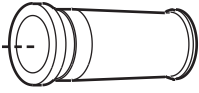


241

TWECO®

COMPATIBLE WITH SPRAY MASTER 250 AMP

MIG



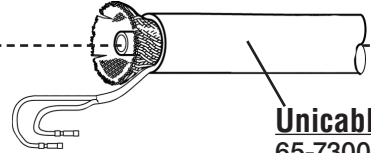
Cable Support Spring
TS25SR



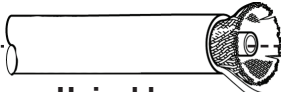
Barb Adaptor
MS31



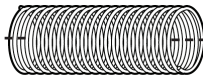
Ferrule
64-7916



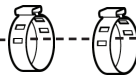
Unicable
65-7300



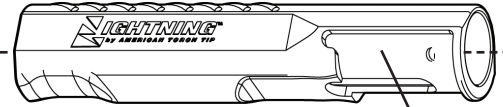
Unicable
65-7300



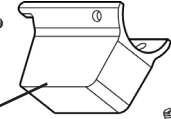
Spring Guard
63-6502



Clamp
64-7907



Housing & Screws
63-6101



Handle
64-6106



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)

Control Plug Connector
64-7909

Screws
64-6501

Liner Set Screw
64-8203

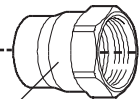
Power Pin O-ring
64-8202

Liner O-ring
64-9001

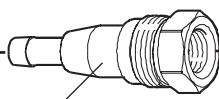


Pin (Tweco #4)
64-8211T

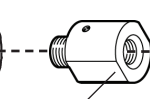
Liner Conduit Liner
See Chart # 3



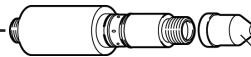
Cone Nut
63-6302



Connector Cone
62-6301



Power Pin Mount
64-8208



Pin (Miller)
64-8311T

Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)



Pin (Lincoln)
64-8411T

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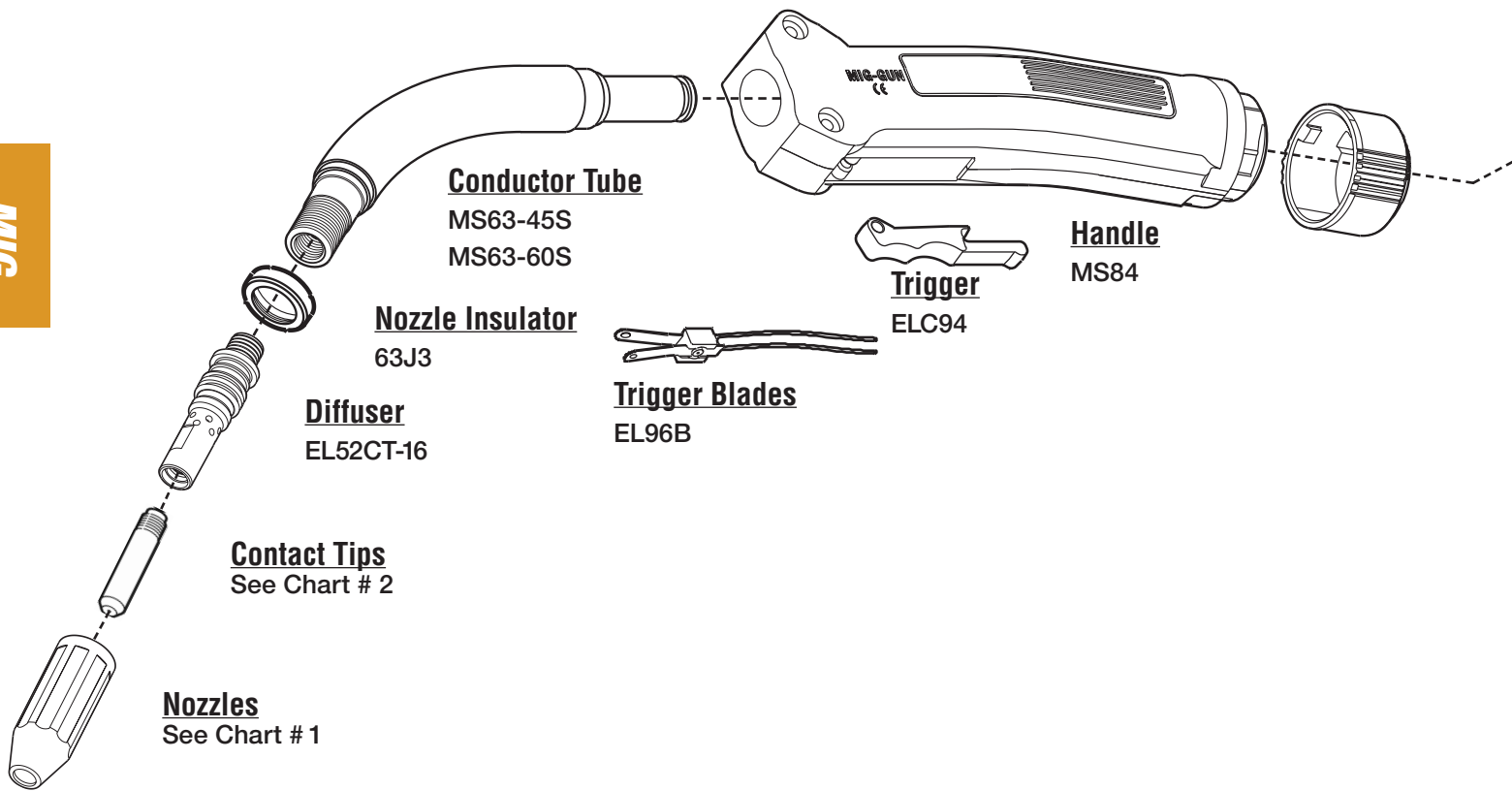


242

TWECO®

COMPATIBLE WITH SPRAY MASTER 350 AMP

MIG



1. NOZZLES

I.D.

A	EL22CT-37	Nozzle Std. 1/8" Recess	3/8" (09.5mm)
	EL22CT-50	Nozzle Std. 1/8" Recess	1/2" (12.7mm)
	EL22CT-62	Nozzle Std. 1/8" Recess	5/8" (15.9mm)
	EL22CT-75	Nozzle Std. 1/8" Recess	3/4" (19.1mm)
B	EL22CT-50F	Nozzle Flush	1/2" (12.7mm)
	EL22CT-62F	Nozzle Flush	5/8" (15.9mm)
C	EL22CT-62H	Nozzle H.D.	5/8" (15.9mm)

2. CONTACT TIP

I.D.

16S-35	Contact Tip	.035	(0.9mm).044
16S-40	Contact Tip	.040	(1.0mm).048
16S-45	Contact Tip	.045	(1.2mm).054
16S-52	Contact Tip	.052	(1.3mm).064
16S-116	Contact Tip	1/16"	(1.6mm).073
16S-564	Contact Tip	5/64"	(2.0mm)AL .093
16AS-364	Contact Tip	3/64"	(1.2mm)AL .059
16AS-116	Contact Tip	1/16"	(1.6mm)AL .082
16S-332	Contact Tip	1/16"	(1.6mm)AL .110

3. LINERS

I.D. O.D.

44-116-15	Liner Assy.	15'	1/16"	.076	.188
44-116-25	Liner Assy.	25'	1/16"	.076	.188
44-3545-15	Liner Assy.	15'	.035-.045	.066	.188
44-3545-25	Liner Assy.	25'	.035-.045	.066	.188

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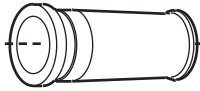


243

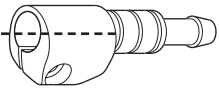
TWECO®

COMPATIBLE WITH SPRAY MASTER 350 AMP

MIG



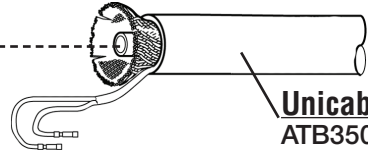
Cable Support Spring
TS25SR



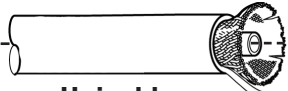
Barb Adaptor
MS31



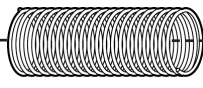
Ferrule
64-7916



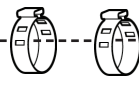
Unicable
ATB350



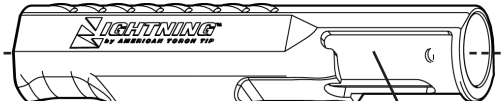
Unicable
ATB350



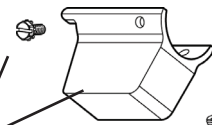
Spring Guard
63-6502



Clamp
64-7907



Housing & Screws
63-6101



Handle
64-6106

Screws
64-6501



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)



Control Plug Connector
64-7909

Liner Set Screw
64-8203

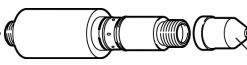
Power Pin O-ring
64-8202

Liner O-ring
64-9001



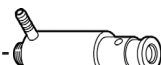
Liner Conduit Liner
See Chart # 3

Pin (Tweco #4)
64-8211T



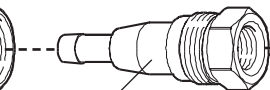
Pin (Miller)
64-8311T

Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)

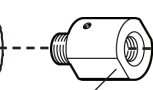


Pin (Lincoln)
64-8411T

Cone Nut
63-6302



Connector Cone
63-6301



Power Pin Mount
64-8208

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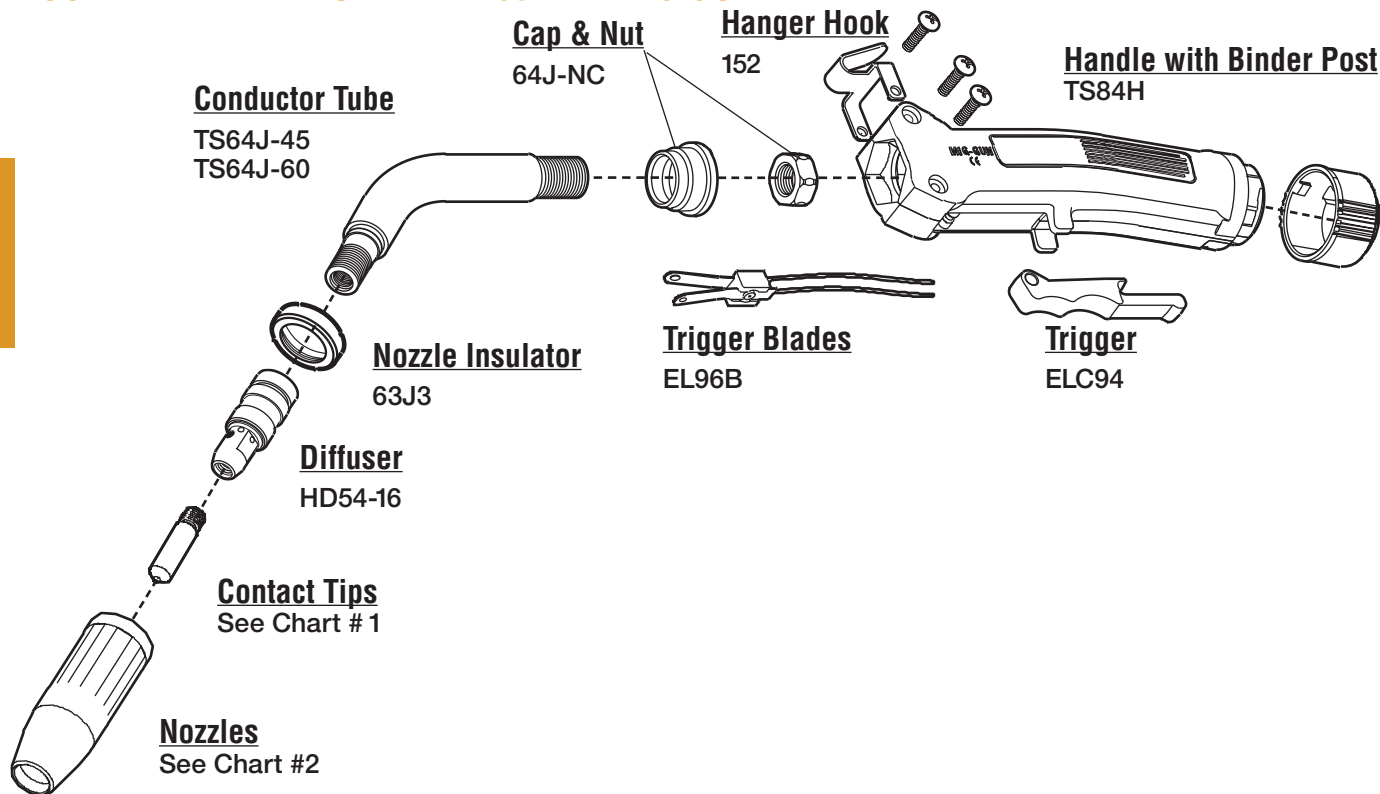




244

TWECO®

COMPATIBLE WITH SPITFIRE 450 AMP MIG GUN



MIG

1. CONTACT TIP

I.D.

16S-35	Contact Tip	.035	(0.9mm)	.044
16S-40	Contact Tip	.040	(1.0mm)	.048
16S-45	Contact Tip	.045	(1.2mm)	.054
16S-52	Contact Tip	.052	(1.3mm)	.064
16S-116	Contact Tip	1/16"	(1.6mm)	.073
16S-364	Contact Tip	3/64"	(2.0mm)AL	.090
16AS-364	Contact Tip	3/64"	(1.2mm)AL	.059
16AS-116	Contact Tip	1/16"	(1.6mm)AL	.082

3. LINERS

I.D.

44-116-15	Liner Assy.	15'	1/16"	.076	.188
44-116-25	Liner Assy.	25'	1/16"	.076	.188
44-3545-15	Liner Assy.	15'	.035-.045	.066	.188
44-3545-25	Liner Assy.	25'	.035-.045	.066	.188

2. NOZZLES

I.D.

HD24L-50	Nozzle Std. Recess	1/2"	(12.7mm)
HD24L-62	Nozzle Std.	5/8"	(15.9mm)
HD24L-75	Nozzle Std.	3/4"	(19.1mm)
HD24L-50F	Nozzle Flush.	1/2"	
HD24L-62F	Nozzle Flush.	5/8"	
HD24L-75F	Nozzle Flush.	3/4"	
HD24-50	Nozzle H.D. Recess	1/8"	
HD24-62	Nozzle H.D. Recess	5/8"	
HD24-75	Nozzle H.D. Recess	3/4"	
HD24-50F	Nozzle H.D. Flush.	1/2"	
HD24-62F	Nozzle H.D. Flush.	5/8"	
HD24-75F	Nozzle H.D. Flush.	3/4"	

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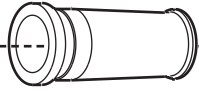


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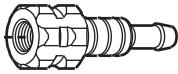
TWECO®

COMPATIBLE WITH SPITFIRE 450 AMP MIG GUN

MIG



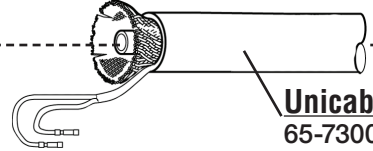
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TS25SR



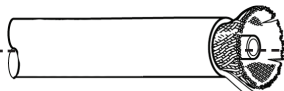
Barb Adaptor
TS100-4RK



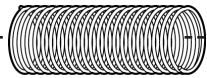
Ferrule
64-7916



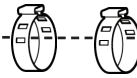
Unicable
65-7300



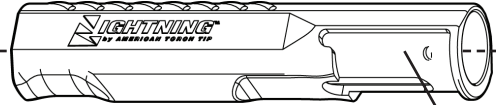
Unicable
65-7300



Spring Guard
63-6502



Clamp
64-7907



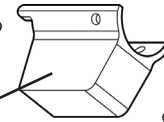
Housing & Screws
63-6101



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)



Control Plug Connector
64-7909



Handle
64-6106

Screws
64-6501

Liner Set Screw
64-8203



Power Pin O-ring
64-8202

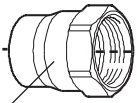
Liner O-ring
64-9001



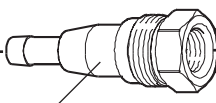
Pin (Tweco #4)
64-8211T



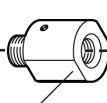
Liner Conduit Liner
See Chart # 3



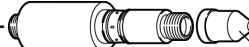
Cone Nut
63-6302



Connector Cone
64-6301

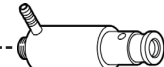


Power Pin Mount
64-8208



Pin (Miller)
64-8311T

Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)



Pin (Lincoln)
64-8411T

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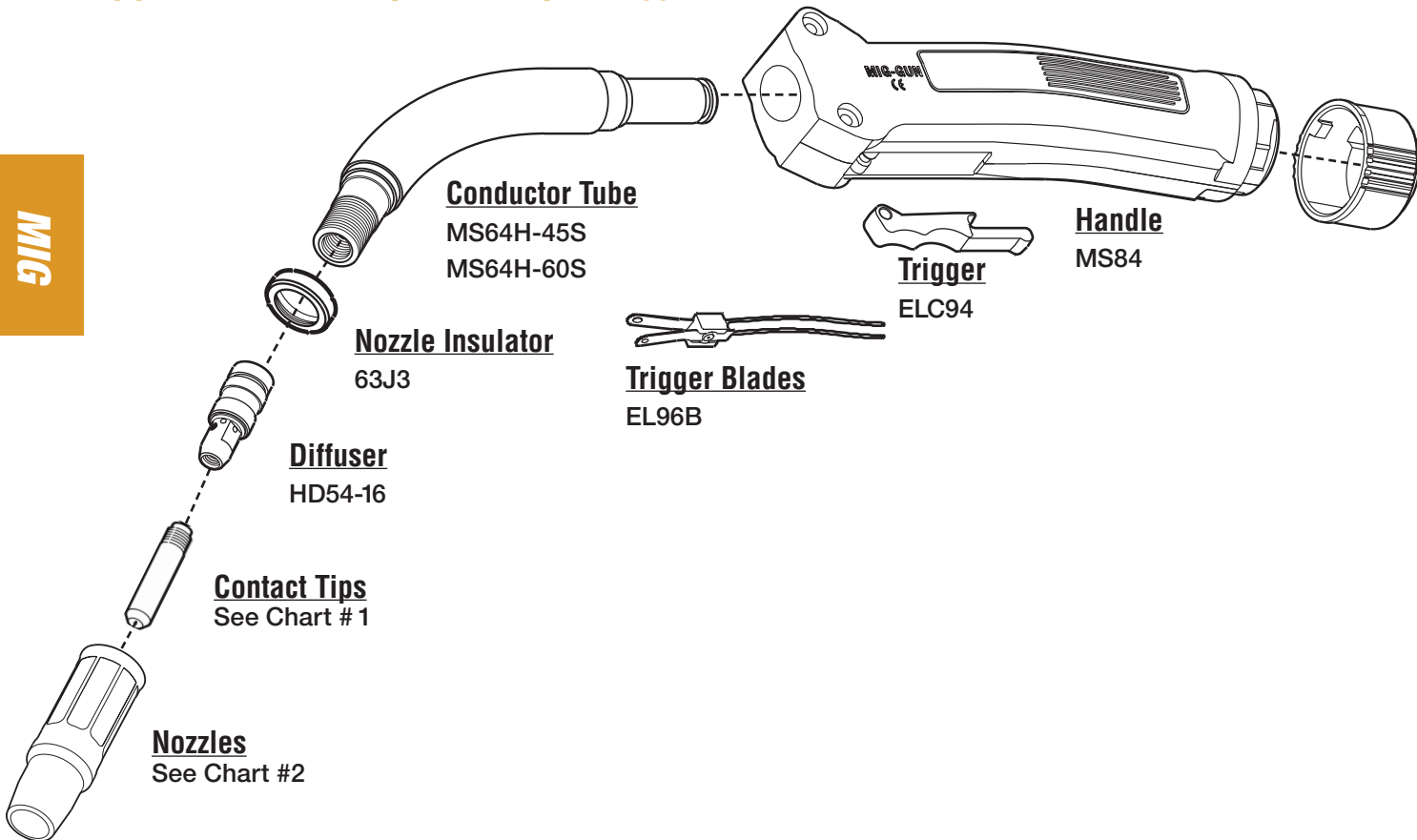


246

TWECO®

COMPATIBLE WITH SPRAY MASTER 450 AMP

MIG



1. CONTACT TIP

I.D.

16S-35	Contact Tip	.035	(0.9mm)	.044
16S-40	Contact Tip	.040	(1.0mm)	.048
16S-45	Contact Tip	.045	(1.2mm)	.054
16S-52	Contact Tip	.052	(1.3mm)	.064
16S-116	Contact Tip	1/16"	(1.6mm)	.073
16S-564	Contact Tip	3/64"	(2.0mm)AL	.043
16AS-364	Contact Tip	3/64"	(1.2mm)AL	.059
16AS-116	Contact Tip	1/16"	(1.6mm)AL	.082

2. NOZZLES

I.D.

HD24L-50	Nozzle Std. Recess	1/2"	(12.7mm)
HD24L-62	Nozzle Std.	5/8"	(15.9mm)
HD24L-75	Nozzle Std.	3/4"	(19.1mm)
HD24L-50F	Nozzle Flush.	1/2"	
HD24L-62F	Nozzle Flush.	5/8"	
HD24L-75F	Nozzle Flush.	3/4"	
HD24-50	Nozzle H.D. Recess	1/8"	

NOZZLES CONTINUED

I.D.

HD24-62	Nozzle H.D. Recess	5/8"
HD24-75	Nozzle H.D. Recess	3/4"
HD24-50F	Nozzle H.D. Flush.	1/2"
HD24-62F	Nozzle H.D. Flush.	5/8"
HD24-75F	Nozzle H.D. Flush.	3/4"

3. LINERS

I.D.

44-116-15	Liner Assy.	15'	1/16"	.076	.188
44-116-25	Liner Assy.	25'	1/16"	.076	.188
44-3545-15	Liner Assy.	15'	.035-.045	.066	.188
44-3545-25	Liner Assy.	25'	.035-.045	.066	.188

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YOUR SUPER SOURCE FOR CONSUMABLE REPLACEMENT PARTS

AMERICAN TORCH TIP ATTC

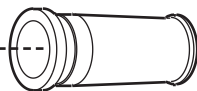
MIG
MIG DIVISION OF AMERICAN TORCH TIP

247

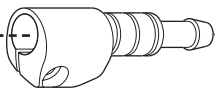
TWECO®

COMPATIBLE WITH SPRAY MASTER 450 AMP

MIG



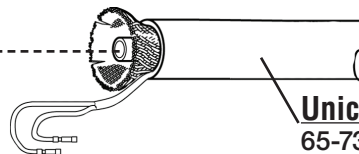
Cable Support Spring
TS25SR



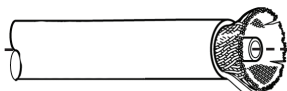
Barb Adaptor
MS31



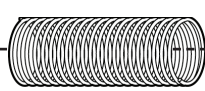
Ferrule
64-7916



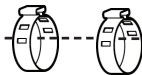
Unicable
65-7300



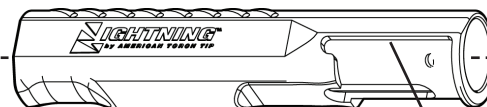
Unicable
65-7300



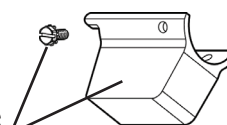
Spring Guard
63-6502



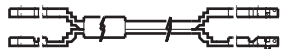
Clamp
64-7907



Housing & Screws
63-6101



Handle
64-6106



Lead Extensions
64-8404 (Std.)
64-8306 (Miller)



Control Plug Connector
64-7909

Screws
64-6501

Liner Set Screw
64-8203



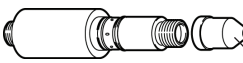
Power Pin O-ring
64-8202

Liner O-ring
64-9001

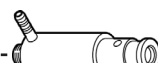


Liner Conduit Liner
See Chart # 3

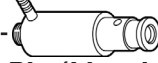
Pin (Tweco #4)
64-8211T



Pin (Miller)
64-8311T

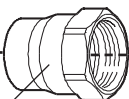


Pin (Lincoln)
64-8411T

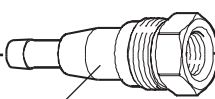


Guide Cap
64-8303 (.035-1/16)
64-8304 (5/64-3/32)

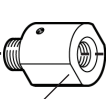
Cone Nut
63-6302



Connector Cone
64-6301



Power Pin Mount
64-8208



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