

# MIG

## Welding Products

AMERICAN  
TORCH TIP **ATTC**<sup>®</sup>

Guns  
Torches  
Consumables  
Conversion Kits  
Replacement Parts

Featuring Lightning<sup>®</sup> Products

**LIGHTNING**<sup>®</sup>  
by American Torch Tip<sup>®</sup>

MADE IN THE USA

## 2 AMERICAN TORCH TIP

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† American Torch Tip Company (ATTC) is a proud US manufacturer of more than 80 years producing products for 6 major cutting and welding technologies. ATTC is in no way affiliated with the above-named original equipment manufacturer(s). References to the above-named manufacturers, tradenames and part numbers are for your convenience only. Most parts advertised for sale are made by or for American Torch Tip and other parts as indicated are original parts manufactured by above-named, original equipment manufacturer (OEM) and are simply being re-sold by American Torch Tip. Footnotes: \* = OEM; # = American Torch Tip is licensed to make and sell this part by named manufacturer; ATTC and ATT suffix = This part is an original American Torch Tip design and is not manufactured identical to the OEM design; ® indicates a registered trademark, trade name, or product name of the above-named company. PHD™, PHDX™, Lightning®, Waltec™, Integra™, Lasertec® Laser Division of American Torch Tip®, Multi-Use™ and ProMix™ are trademarks owned by American Torch Tip Company. © Copyright 2024, American Torch Tip Company

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## 4 AMERICAN TORCH TIP



### SEMI-AUTOMATIC GUN 250, 350, 400 AMPS

MIG

#### Fastest Neck Change – No Tools Needed

- Our patent pending Flash™ connection is the fastest rotatable and replaceable gooseneck on the market.

#### 360° Rotation

- Lightning® Flash™ MIG gun features a rotatable gooseneck with 12 fixed positions

#### Features & Benefits

- The highly-durable Lightning® series of MIG guns has been engineered and built for high production and comfort.

#### Contact Tip

- Tapered seating tip allows for better conductivity, with a dual start-point thread that allows the tip to rotate 180° to a new wear point, allowing you to extend the life of the tip.

#### Handle

- Ergonomic plastic handle is engineered with special impact additives that stand up to extreme contact, making it virtually indestructible. Lifetime Warranty on handle.

#### Trigger & Switch

- The trigger is easy to pull, causing less welder fatigue. The switch is also guaranteed for life under normal conditions.

#### Interchangeability

- Lightning® handles, spring guards, connector cones and cone nuts are interchangeable at both ends of the gun, allowing you to effectively double the life of the gun by flip-flopping the ends.

#### Tapered Contact Tip and Diffuser

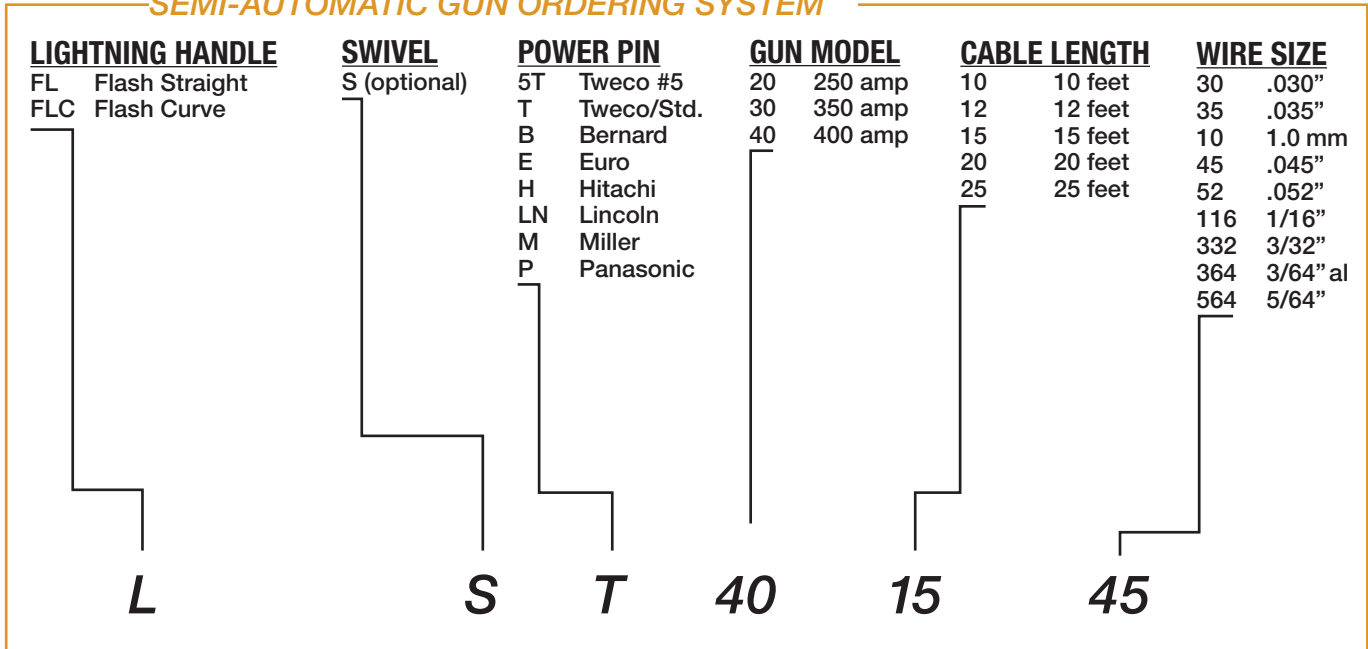
- Tip and diffuser design allows for greater heat dissipation and electrical conductivity.
- Easy start contact tip has quick change double thread.

#### Power Cable

- Outer insulation is tear and abrasion resistant.
- Hytrel®† tubing is kink resistant.
- Maximum amount of copper strands offer maximum productivity.



**SEMI-AUTOMATIC GUN ORDERING SYSTEM**



**MIG**

**LIGHTNING STRAIGHT HANDLE FLASH  
AMPERAGE RATINGS—DUTY CYCLE**

Model #	100% Duty Cycle		60% Duty Cycle	
	CO <sub>2</sub>	Mixed Gas	CO <sub>2</sub>	Mixed Gas
250	250	120	300	250
350	350	200	400	350
400	400	300	450	350

**LIGHTNING CURVE HANDLE FLASH  
AMPERAGE RATINGS—DUTY CYCLE**

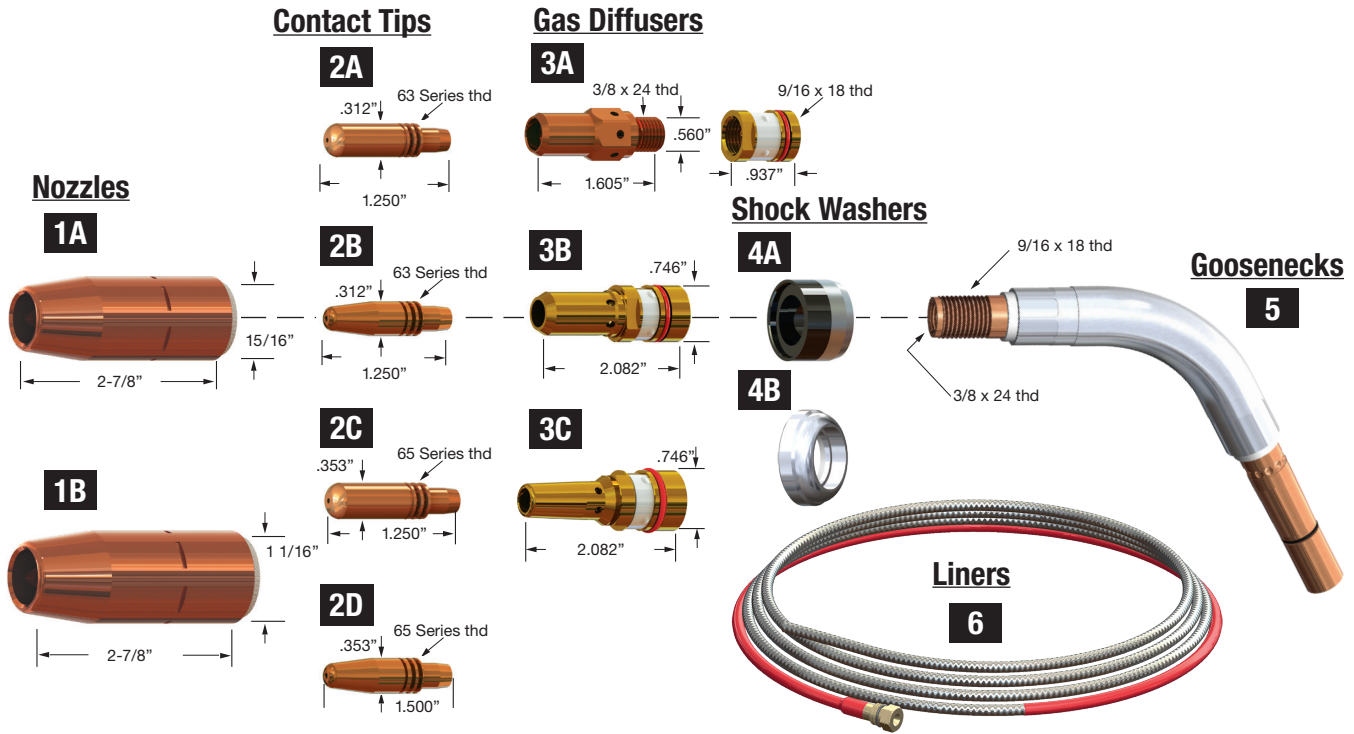
Model #	100% Duty Cycle		60% Duty Cycle	
	CO <sub>2</sub>	Mixed Gas	CO <sub>2</sub>	Mixed Gas
250	200	120	300	250
350	350	200	400	350

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# 6 AMERICAN TORCH TIP

## LIGHTNING® FLASH CONSUMABLES – SEMI-AUTOMATIC 250, 350, 450 & 550 AMPS

MIG



### STANDARD GUN CONFIGURATION - LIGHTNING HEAVY DUTY SETUP IS AVAILABLE ON REQUEST

Description	Tips	Nozzles	Gas Diffuser	Liner	Shock Washer	Gooseneck
250 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-3103 HD	63-5160*
350 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-6202 HD	63-5160*
450 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160*
550 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160*

\*GOOSENECKS : ADD LF TO THE END OF PART NUMBER FOR FLASH STRAIGHT • ADD LFLC TO THE END OF PART NUMBER FOR FLASH CURVE

### 1. NOZZLES - INSULATED

A	63-2138	Flush	3/8"
	63-2138-T	Flush, Thrded	3/8"
	63-2150	1/8" Recess	1/2"
	63-2150-T	1/8" Recess, Thrded	1/2"
	63-2950-B	1/8" Recess, Brass	1/2" Strt Bore
	63-9250-B-T	1/8" Recess, Thrded, Brass	1/2" Strt Bore
	63-2950	1/8" Recess	1/2" Strt Bore
	63-2950-T	1/8" Recess, Thrded	1/2" Strt Bore
	64-2950	1/8" Stickout	1/2" Strt Bore
	64-2950-T	1/8" Stickout, Thrded	1/2" Strt Bore
	63-2162	1/8" Recess	5/8"
	63-2162-T	1/8" Recess, Thrded	5/8"
	63-2762	1/4" Stickout	5/8"
	63-2662	1/8" Stickout	5/8" Strt Bore
	63-2662-T	1/8" Stickout, Thrded	5/8" Strt Bore
	63-2662-B	1/8" Stickout, Brass	5/8" Strt Bore
	63-2662-TB	1/8" Stickout, Thrded, Brass	5/8" Strt Bore
	63-2175	1/8" Recess	3/4" Strt Bore
B	65-2550	1/8" Recess	1/2"
	64-2562	1/4" Recess	5/8"
	64-2562-T	1/4" Recess, Thrded	5/8"
	65-2562	1/8" Recess	5/8"

### 1. NOZZLES - INSULATED (CONTINUED)

65-2562-T	1/8" Recess, Thrded	5/8"
64-2962	Flush	5/8" Strt Bore
64-2962-T	Flush, Thrded	5/8" Strt Bore
64-2962-S	1/8" Stickout	5/8" Strt Bore
65-2662	1/8" Stickout	5/8"
65-2662-T	1/8" Stickout, Thrded	5/8"
65-2362	1/8" Stickout, Brass	5/8"
65-2362-T	1/8" Stickout, Thrded, Brass	5/8"
65-2862	Flush, Brass	5/8"
63-2262	1/8" Stickout, Brass	5/8"
63-2262-C	1/8" Stickout, Copper	5/8"
63-2362	1/8" Recess, 1-1/8" Brass	5/8" Strt Bore
63-2362-C	1/8" Recess, 1-1/8" Copper	5/8" Strt Bore
63-2362-C-T	1/8" Recess, Thrded, 1-1/8" Copper	5/8" Strt Bore
65-2875	Flush, Brass	3/4"
65-2375	1/8" Recess, Brass	3/4"
65-2375-T	1/8" Recess, Thrded Brass	3/4"
64-2575	1/4" Recess	3/4"
65-2575	1/8" Recess	3/4"
65-2575-T	1/8" Recess, Thrded	3/4"
64-2387	1/8" Recess, Brass	7/8" Strt Bore

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**2. CONTACT TIPS**

				I.D.
A	63-1130	HD	.030 (0.8mm)	.037
	63-1135	HD	.035 (0.9mm)	.043
	63-1138	HD	.038	.037
	63-1135-40	HD	.035/.040	.040
	63-1140	HD	.040 (1.0mm)	.048
	63-1145	HD	.045 (1.2mm)	.055
	63-1147	HD	3/64"	.060
	63-1152	HD	.052 (1.3mm)	.063
	63-1152-059	HD	.052	.059
	63-1162	HD	1/16"	.073
	63-1168	HD	.068	.078
	63-1172	HD	.072	.081
	63-1178	HD	5/64 (2.0mm)	.093
	63-1193	HD	3/32 (2.4mm)	.110
	63-1330	HD Long Life CrCu	.030	.037
	63-1335	HD Long Life CrCu	.035	.043
	63-1340	HD Long Life CrCu	.040	.045
	63-1345	HD Long Life CrCu	.045	.050
	63-1352	HD Long Life CrCu	.052	.059
	63-1352-SP	HD Long Life CrCu	.056/.059	.059
	63-1362	HD Long Life CrCu	1/16"	.070
	63-1378	HD Long Life CrCu	6/64:	.093
	63-1393	HD Long Life CrCu	3/32"	.110
B	63-1230	HD Tapered	.030 (0.8mm)	.037
	63-1235	HD Tapered	.035 (0.9mm)	.043
	63-1235-40	HD Tapered		
	63-1245	HD Tapered	.045 (1.2mm)	.055
	63-1245-50	HD Tapered	.035/.040	.040
	63-1252	HD Tapered	.052 (1.3mm)	.063
	63-1262	HD Tapered	1/16"	.073
	63-1130T	HD Tapered Long I.P. CrCu	.030	.037
	63-1135T	HD Tapered Long I.P. CrCu	.035	.043
	63-1145T	HD Tapered Long I.P. CrCu	.045	.050
	63-1152T	HD Tapered Long I.P. CrCu	.052	.059
C	65-1130	Extra HD	.030	.037
	65-1135	Extra HD	.035	.043
	65-1140	Extra HD	.040	.048
	65-1145	Extra HD	.045	.055
	65-1145-050	Extra HD	.045/.050	.050
	65-1147	Extra HD	.047	.060
	65-1152	Extra HD	.052	.063
	65-1162	Extra HD	1/16	.073
	65-1178	Extra HD	5/64	.093
	65-1193	Extra HD	3/32	.110
	65-1130AL	Extra HD, AL	.040	.048
	65-1135AL	Extra HD, AL	.048	.060
	65-1335	Extra HD Long Life CrCu	.035	.040
	65-1345	Extra HD Long Life CrCu	.045	.050
	65-1352	Extra HD Long Life CrCu	.052	.059
	65-1362	Extra HD Long Life CrCu	1/16	.070
D	65-1230	Extra HD Tapered	.030	.037
	65-1235	Extra HD Tapered	.035	.043
	65-1245	Extra HD Tapered	.045	.055
	65-1252	Extra HD Tapered	.052	.063
	65-1262	Extra HD Tapered	.062	.073
	65-1345T	Extra HD Tapered, CrCu	.045	.050

Note: 65-11xx series tips are only to be used with 65 series Lightning Diffusers. Please call for information.

**3. GAS DIFFUSERS & RETAINER**

A	63-3201	Diffuser, Copper
	63-3104	Retainer
B	63-3103	Standard
	63-3103-2	Robotic, Tapered
	63-3103-2A	Robotic, Tapered, Angled holes
	63-3116	Robotic/Manual, Thrded
	63-3117	Robotic, External Thrded
	63-3118	Bernhard
	63-3118-T	Bernhard, Thrded
	63-3119	Lincoln
	63-3119-T	Lincoln, Thrded
	63-3119-A	Lincoln, Angled holes
	63-3122	SKS
C	65-3103	HD Standard
	65-3103-2	HD Robotic
	65-3116	HD R/M
	65-3116-MC	HD
	65-3119	HD Lincoln
	65-3119-T	HD Lincoln, Thrded

**4. SHOCK WASHERS**

A	63-6202-HD	HD (Heavy Duty)
B	63-6202	

**5. GOOSENECKS**

ADD LF TO THE END OF PART NUMBER FOR FLASH GOOSENECKS  
ADD LFLC TO THE END OF PART NUMBER FOR FLASH CURVE GOOSENECKS

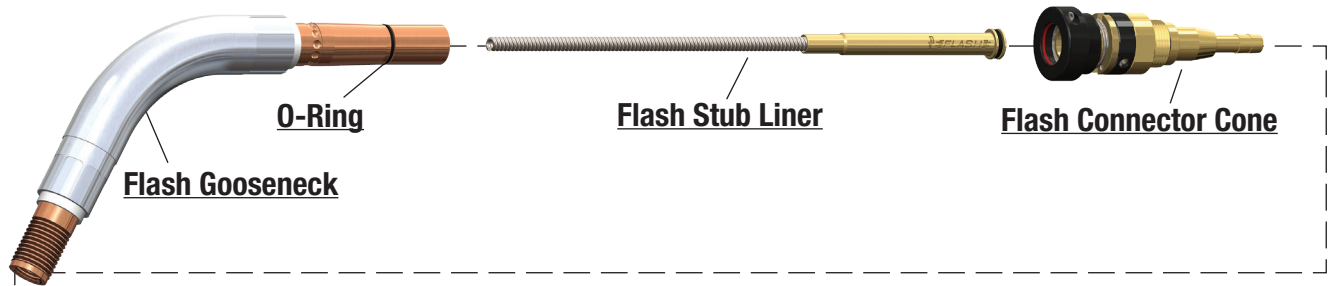
	62-5160LF or LFLC	Lightning Flash GN 250A
	63-5160LF or LFLC	Lightning Flash GN 60 deg 4"
	64-5160LF or LFLC	Lightning Flash GN 60 deg 5"
	65-5160LF or LFLC	Lightning Flash GN 60 deg 6.5"
	65-5160LF or LFLC-10	Lightning Flash GN 60 deg 10"
	65-5160LF or LFLC-12	Lightning Flash GN 60 deg 12"
	65-5160LF or LFLC-16	Lightning Flash GN 60 deg 16"

**6. LINERS**

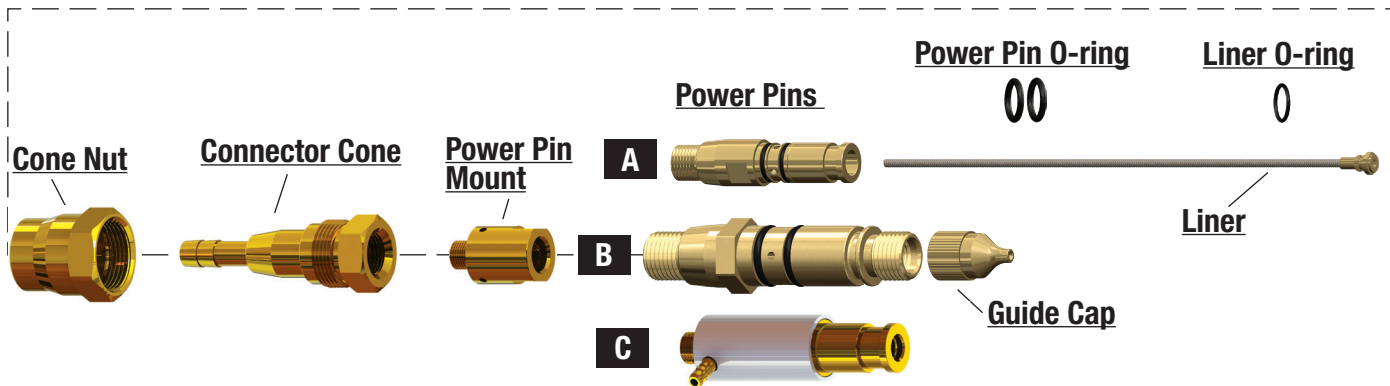
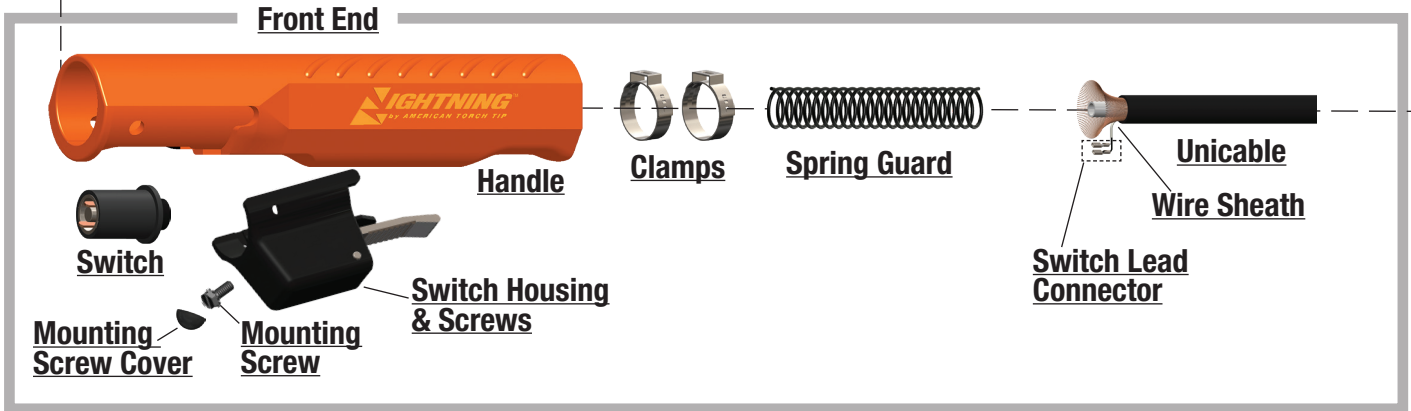
Part#	Wire Size		Length	O.D.
64-4115	.023"	(.6mm)	15'	0.150
62-4315	.035"	(.9mm)	15'	0.156
62-4325	.035"	(.9mm)	25'	0.156
62-4515	.045"	(1.6mm)	15'	0.156
62-4525	.045"	(1.6mm)	25'	0.156
64-4215	.030"	(.8mm)	15'	0.182
64-4310	.035"	(.9mm)	10'	0.175
64-4315	.035"	(.9mm)	15'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4415	.035"	(.9mm)al	15'	0.189
64-4510	.045"	(1.6mm)	10'	0.189
64-4515	.045"	(1.6mm)	15'	0.189
64-4525	.045"	(1.6mm)	25'	0.189
64-4510	3/64"	(1.6mm)	10'	0.189
64-4515	3/64"	(1.6mm)	15'	0.189
64-4525	3/64"	(1.6mm)	25'	0.189
64-4510	.52"	(1.6mm)	10'	0.189
64-4515	.52"	(1.6mm)	15'	0.189
64-4525	.52"	(1.6mm)	25'	0.189
64-4510	1/16"	(1.6mm)	10'	0.189
64-4515	1/16"	(1.6mm)	15'	0.189
64-4525	1/16"	(1.6mm)	25'	0.189
64-4615	3/64-1/16al		15'	0.189
64-4715	5/64-3/32		15' Flat	0.189
64-4815	5/64-3/32	FC	10'	0.21
64-4915	.035 - .045	(for S.S. Wire)	15'	0.192

# 8 AMERICAN TORCH TIP

## LIGHTNING FLASH™ REPLACEMENT PARTS – SEMI-AUTOMATIC 250, 350, & 400



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**LIGHTNING FLASH™ GOOSENECKS**

62-5160LF	Lightning Flash Gooseneck 250A
63-5160LF	Lightning Flash Gooseneck 60 deg 4"
64-5160LF	Lightning Flash Gooseneck 60 deg 5"
65-5160LF	Lightning Flash Gooseneck 60 deg 6.5"
65-5160LF-10	Lightning Flash Gooseneck 60 deg 10"
65-5160LF-12	Lightning Flash Gooseneck 60 deg 12"
65-5160LF-16	Lightning Flash Gooseneck 60 deg 16"

Goosenecks are available in a variety of bends. Replace the 60 with the degree you want. Standards are 45°, 60°, and 00 (180°).

**LINERS**

PART	WIRE SIZE		LENGTH	#O.D.
64-4115	.023"	(.6mm)	15'	0.150
62-4315	.035"	(.9mm)	15'	0.156
62-4325	.035"	(.9mm)	25'	0.156
62-4515	.045"	(1.6mm)	15'	0.156
62-4525	.045"	(1.6mm)	25'	0.156
64-4215	.030"	(.8mm)	15'	0.182
64-4310	.035"	(.9mm)	10'	0.175
64-4315	.035"	(.9mm)	15'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4415	.035"	(.9mm)al	15'	0.189
64-4510	.045"	(1.6mm)	10'	0.189
64-4515	.045"	(1.6mm)	15'	0.189
64-4525	.045"	(1.6mm)	25'	0.189
64-4510	3/64"	(1.6mm)	10'	0.189
64-4515	3/64"	(1.6mm)	15'	0.189
64-4525	3/64"	(1.6mm)	25'	0.189
64-4510	.52"	(1.6mm)	10'	0.189
64-4515	.52"	(1.6mm)	15'	0.189
64-4525	.52"	(1.6mm)	25'	0.189
64-4510	1/16"	(1.6mm)	10'	0.189
64-4515	1/16"	(1.6mm)	15'	0.189
64-4525	1/16"	(1.6mm)	25'	0.189
64-4615	3/64-1/16al		15'	0.189
64-4715	5/64-3/32		15' Flat	0.189
64-4725	5/64-3/32		25' Flat	0.210
64-4815	5/64 & 1/16"		FC 10'	0.210
64-4915	.035 - .045		15'	0.192

(for S.S. Wire)

**FLASH CONNECTOR CONE - FRONT END**

62-6301LF
63-6301LF
64-6301LF

**CONE NUT - FRONT END**

63-6302(2/3/450A)
65-6302 (550A)

**UNICABLE CUT LENGTHS**

250A 10'	62-7110	350A 15'	63-7115	450A 25'	64-7125	<b>UNICABLE BULK (PER FOOT)</b>
250A 12'	62-7112	350A 20'	63-7120	550A 10'	65-7110	250A Bulk 62-7300
250A 15'	62-7115	350A 25'	63-7125	550A 12'	65-7112	350A Bulk 63-7300
250A 20'	62-7120	450A 10'	64-7110	550A 15'	65-7115	450A Bulk 64-7300-1
250A 25'	62-7125	450A 12'	64-7112	550A 20'	65-7120	550A Bulk 65-7300-1
350A 10'	63-7110	450A 15'	64-7115			550A 25' 65-7125
350A 12'	63-7112	450A 20'	64-7120			

**GUN HANDLE - FRONT END**

64-6106	Handle
64-6601	Switch
64-5110	Mounting Screw Cover
64-6501	Mounting Screw
64-6602	Switch Housing & Screws
62-7902 (250A)	Clamp
63-7902 (350A)	Clamp
64-7907 (450A)	Clamp
65-7902 (550A)	Clamp
63-6502	Spring Guard
64-7901	Switch Lead Connector
64-7902	Wire Sheath

**BACK END**

64-6106	Handle
64-6501	Screws
63-6101	Housing & Screws
62-7902	Clamp (250A)
64-7907	Clamp (3/450A)
65-7902	Clamp (550A)
63-6502	Spring Guard
64-8306	Control Plug (Miller Amphenol 2 pin)
64-8404	Control Plug (Standard)
64-8403	Control Plug (Lincoln Control/Bell plug)
64-7909	Control Plug Connector

**CONNECTOR CONE**

62-6301 (250A)
63-6301 (350A)
64-6301 (4/550A)

**CONE NUT**

63-6302(2/3/450A)
65-6302 (550A)

**POWER PIN MOUNT**

64-8208
---------

**POWER PINS**

A 64-8211	Tweco Std, Tweco #4
B 64-8311	Miller
C 64-8411	Lincoln

**NOT SHOWN**

64-8501	Bernard
64-8100	Euro
64-8212-L	Tweco #5

**POWER PIN O-RING**

64-8202
---------

**LINER O-RING**

64-9001
---------

**GUIDE CAP**

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

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## 10 AMERICAN TORCH TIP



### SEMI-AUTOMATIC GUN 250, 350, 450, 550 AMPS

MIG

#### Tapered Contact Tip and Diffuser

- Tip and diffuser design allows for greater heat dissipation and electrical conductivity.
- Easy start contact tip has quick change double thread.

#### Rugged Gooseneck

- Insulated aircraft aluminum protects the gooseneck.
- 650 AMP capacity.

#### Million Pull Trigger Switch

- Lifetime Warranty on handle and trigger switch.

#### Durable Metal Trigger High Strength

- Ergonomic engineered plastic handle is designed with special impact additives that stands up to extreme impact.

#### Strain Relief

- Supports cable weight and reduces cable kinking.
- Helps reduce welder fatigue.

#### Power Cable

- Outer insulation is tear and abrasion resistant.
- Hytrel®† tubing is kink resistant.
- Maximum amount of copper strands offer maximum productivity.



#### CONSUMABLES FEATURES

##### Nozzle

- Hard drawn copper or brass in variety of shapes and sizes.
- High polished finish offers superior spatter protection.
- Brass inserts designed to protect against wear and offers superior nozzle protection.

##### Tip

- Dual Thread
- Tapered Seat
- Acme Coarse Thread

**SEMI-AUTOMATIC GUN ORDERING SYSTEM**

HANDLE	POWER PIN	GUN MODEL	CABLE LENGTH	WIRE SIZE
L Lightning	5T Tweco #5	20 250 amp	10 10 feet	30 .030"
	T Tweco/Std.	30 350 amp	12 12 feet	35 .035"
	B Bernard	40 450 amp	15 15 feet	10 1.0 mm
	E Euro	50 550 amp	20 20 feet	45 .045"
	H Hitachi		25 25 feet	52 .052"
	LN Lincoln			116 1/16"
	M Miller			332 3/32"
	P Panasonic			364 3/64" al
				564 5/64"

**L T 40 15 - 45**

**MIG**

**DUTY CYCLE AMPERAGE RATINGS**

Gun Model	60% Duty Cycle - Mixed Gases 100% Duty Cycle - CO <sub>2</sub>
250 amp	250 amps
350 amp	350 amps
450 amp	450 amps
550 amp	550 amps



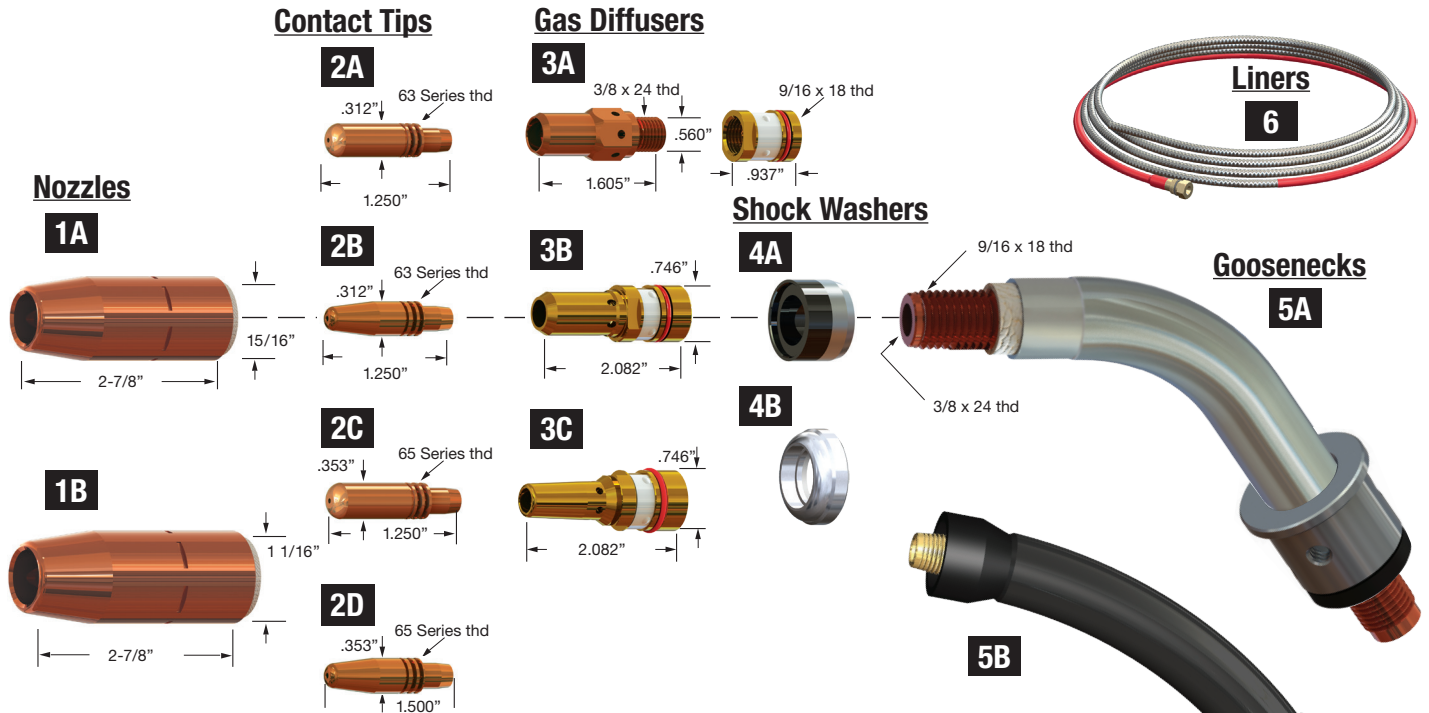
**CONSUMABLES AND REPLACEMENT PARTS ON FOLLOWING PAGES**

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# 12 AMERICAN TORCH TIP

## LIGHTNING® CONSUMABLES – SEMI-AUTOMATIC 250, 350, 450 & 550 AMPS

MIG



### STANDARD GUN CONFIGURATION - LIGHTNING

Description	Tips	Nozzles	Gas Diffuser	Liner	Shock Washer	Gooseneck
250 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-3103 HD	63-5160
350 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-6202 HD	63-5160
450 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160
550 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160

Heavy duty setup is available on request

### 1. NOZZLES - INSULATED

A	63-2138	Flush	3/8"
	63-2138-T	Flush, Thrded	3/8"
	63-2150	1/8" Recess	1/2"
	63-2150-T	1/8" Recess, Thrded	1/2"
	63-2950-B	1/8" Recess, Brass	1/2" Strt Bore
	63-9250-B-T	1/8" Recess, Thrded, Brass	1/2" Strt Bore
	63-2950	1/8" Recess	1/2" Strt Bore
	63-2950-T	1/8" Recess, Thrded	1/2" Strt Bore
	64-2950	1/8" Stickout	1/2" Strt Bore
	64-2950-T	1/8" Stickout, Thrded	1/2" Strt Bore
	63-2162	1/8" Recess	5/8"
	63-2162-T	1/8" Recess, Thrded	5/8"
	63-2762	1/4" Stickout	5/8"
	63-2662	1/8" Stickout	5/8" Strt Bore
	63-2662-T	1/8" Stickout, Thrded	5/8" Strt Bore
63-2662-B	1/8" Stickout, Brass	5/8" Strt Bore	
63-2662-TB	1/8" Stickout, Thrded, Brass	5/8" Strt Bore	
63-2175	1/8" Recess	3/4" Strt Bore	
B	65-2550	1/8" Recess	1/2"
	64-2562	1/4" Recess	5/8"
	64-2562-T	1/4" Recess, Thrded	5/8"
	65-2562	1/8" Recess	5/8"

### 1. NOZZLES - INSULATED (CONTINUED)

65-2562-T	1/8" Recess, Thrded	5/8"
64-2962	Flush	5/8" Strt Bore
64-2962-T	Flush, Thrded	5/8" Strt Bore
64-2962-S	1/8" Stickout	5/8" Strt Bore
65-2662	1/8" Stickout	5/8"
65-2662-T	1/8" Stickout, Thrded	5/8"
65-2362	1/8" Stickout, Brass	5/8"
65-2362-T	1/8" Stickout, Thrded, Brass	5/8"
65-2862	Flush, Brass	5/8"
63-2262	1/8" Stickout, Brass	5/8"
63-2262-C	1/8" Stickout, Copper	5/8"
63-2362	1/8" Recess, 1-1/8" Brass	5/8" Strt Bore
63-2362-C	1/8" Recess, 1-1/8" Copper	5/8" Strt Bore
63-2362-C-T	1/8" Recess, Thrded, 1-1/8" Copper	5/8" Strt Bore
65-2875	Flush, Brass	3/4"
65-2375	1/8" Recess, Brass	3/4"
65-2375-T	1/8" Recess, Thrded Brass	3/4"
64-2575	1/4" Recess	3/4"
65-2575	1/8" Recess	3/4"
65-2575-T	1/8" Recess, Thrded	3/4"
64-2387	1/8" Recess, Brass	7/8" Strt Bore

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**2. CONTACT TIPS**

				I.D.
A	63-1130	HD	.030 (0.8mm)	.037
	63-1135	HD	.035 (0.9mm)	.043
	63-1138	HD	.038	.037
	63-1135-40	HD	.035/.040	.040
	63-1140	HD	.040 (1.0mm)	.048
	63-1145	HD	.045 (1.2mm)	.055
	63-1147	HD	3/64"	.060
	63-1152	HD	.052 (1.3mm)	.063
	63-1152-059	HD	.052	.059
	63-1162	HD	1/16"	.073
	63-1168	HD	.068	.078
	63-1172	HD	.072	.081
	63-1178	HD	5/64 (2.0mm)	.093
	63-1193	HD	3/32 (2.4mm)	.110
	63-1330	HD Long Life CrCu	.030	.037
	63-1335	HD Long Life CrCu	.035	.043
	63-1340	HD Long Life CrCu	.040	.045
	63-1345	HD Long Life CrCu	.045	.050
	63-1352	HD Long Life CrCu	.052	.059
	63-1352-SP	HD Long Life CrCu	.056/.059	.059
	63-1362	HD Long Life CrCu	1/16"	.070
	63-1378	HD Long Life CrCu	6/64:	.093
	63-1393	HD Long Life CrCu	3/32"	.110
B	63-1230	HD Tapered	.030 (0.8mm)	.037
	63-1235	HD Tapered	.035 (0.9mm)	.043
	63-1235-40	HD Tapered		
	63-1245	HD Tapered	.045 (1.2mm)	.055
	63-1245-50	HD Tapered	.035/.040	.040
	63-1252	HD Tapered	.052 (1.3mm)	.063
	63-1262	HD Tapered	1/16"	.073
C	65-1130	Extra HD	.030	.037
	65-1135	Extra HD	.035	.043
	65-1140	Extra HD	.040	.048
	65-1145	Extra HD	.045	.055
	65-1145-050	Extra HD	.045/.050	.050
	65-1147	Extra HD	.047	.060
	65-1152	Extra HD	.052	.063
	65-1162	Extra HD	1/16	.073
	65-1178	Extra HD	5/64	.093
	65-1193	Extra HD	3/32	.110
	65-1130AL	Extra HD, AL	.040	.048
	65-1135AL	Extra HD, AL	.048	.060
	65-1335	Extra HD Long Life CrCu	.035	.040
	65-1345	Extra HD Long Life CrCu	.045	.050
	65-1352	Extra HD Long Life CrCu	.052	.059
	65-1362	Extra HD Long Life CrCu	1/16	.070
D	65-1230	Extra HD Tapered	.030	.037
	65-1235	Extra HD Tapered	.035	.043
	65-1245	Extra HD Tapered	.045	.055
	65-1252	Extra HD Tapered	.052	.063
	65-1262	Extra HD Tapered	.062	.073
	65-1345T	Extra HD Tapered, CrCu	.045	.050

Note: 65-11xx series tips are only to be used with 65 series Lightning Diffusers. Please call for information.

**3. GAS DIFFUSERS & RETAINER**

A	63-3201	Diffuser, Copper
	63-3104	Retainer
B	63-3103	Standard
	63-3103-2	Robotic, Tapered
	63-3103-2A	Robotic, Tapered, Angled holes
	63-3116	Robotic/Manual, Thrded

**3. GAS DIFFUSERS & RETAINER (CONTINUED)**

	63-3117	Robotic, External Thrded
	63-3118	Bernhard
	63-3118-T	Bernhard, Thrded
	63-3119	Lincoln
	63-3119-T	Lincoln, Thrded
	63-3119-A	Lincoln, Angled holes
	63-3122	SKS
C	65-3103	HD Standard
	65-3103-2	HD Robotic
	65-3116	HD R/M
	65-3119	HD Lincoln
	65-3119-T	HD Lincoln, Thrded

**4. SHOCK WASHERS**

A	63-6202-HD	HD (Heavy Duty)
B	63-6202	

**5. GOOSENECKS (INCLUDES BODY ASSY.)**

ADD S TO THE END OF PART # FOR SWIVEL GOOSENECKS (I.E. 62-5160S)

A.	62-5160	Fixed	60°	250
	63-5100	Fixed	180°	250-350
	63-5145	Fixed	45°	250-350
	63-5160	Fixed	60°	250-350
	64-5100	Fixed	180°	450
	64-5145	Fixed	45°	450
	64-5160	Fixed	60°	450
	65-5160	Fixed	60°	550
	65-5100	Fixed	180°	550
	65-5145	Fixed	45°	550
	63-5160S	Swivel	60°	250-350
	64-5160S	Swivel	60°	450
	65-5260S	Swivel	60°	550
B.	65-5100FLX	Flex Neck	8"	
	63-5100FLX	Flex Neck	6"	

**6. LINERS**

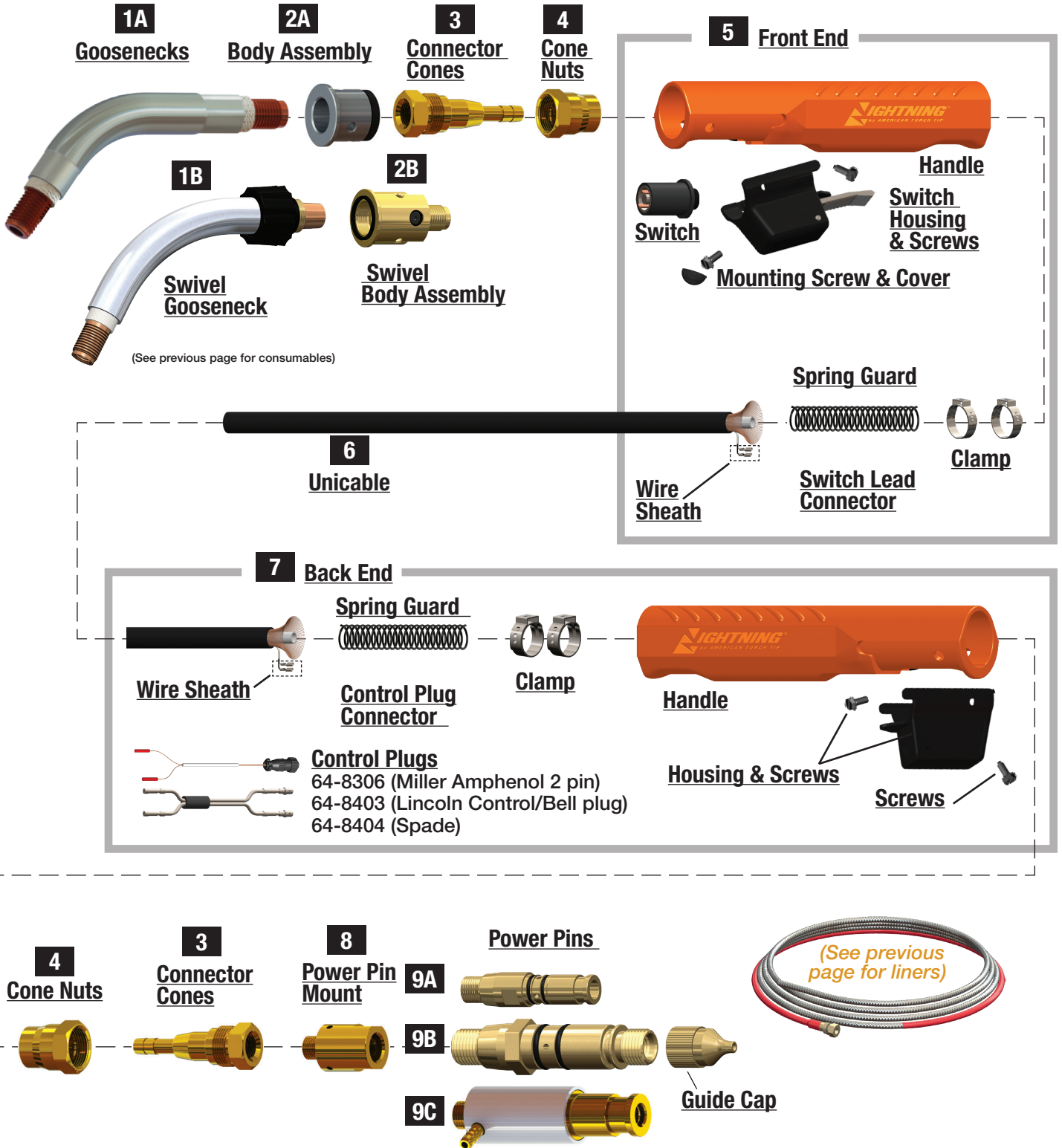
Part#	Wire Size	Length	OD	
64-4115	.023"	(.6mm)	15'	0.150
62-4315	.035"	(.9mm)	15'	0.156
62-4325	.035"	(.9mm)	25'	0.156
62-4515	.045"	(1.6mm)	15'	0.156
62-4525	.045"	(1.6mm)	25'	0.156
64-4215	.030"	(.8mm)	15'	0.182
64-4310	.035"	(.9mm)	10'	0.175
64-4315	.035"	(.9mm)	15'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4415	.035"	(.9mm)al	15'	0.189
64-4510	.045"	(1.6mm)	10'	0.189
64-4515	.045"	(1.6mm)	15'	0.189
64-4525	.045"	(1.6mm)	25'	0.189
64-4510	3/64"	(1.6mm)	10'	0.189
64-4515	3/64"	(1.6mm)	15'	0.189
64-4525	3/64"	(1.6mm)	25'	0.189
64-4510	.52"	(1.6mm)	10'	0.189
64-4515	.52"	(1.6mm)	15'	0.189
64-4525	.52"	(1.6mm)	25'	0.189
64-4510	1/16"	(1.6mm)	10'	0.189
64-4515	1/16"	(1.6mm)	15'	0.189
64-4525	1/16"	(1.6mm)	25'	0.189
64-4615	3/64-1/16al		15'	0.189
64-4715	5/64-3/32		15' Flat	0.189
64-4815	5/64-3/32	FC 10'		0.21
64-4915	.035 - .045	(for S.S. Wire)	15'	0.192

MIG

# 14 AMERICAN TORCH TIP

## LIGHTNING® REPLACEMENT PARTS – SEMI-AUTOMATIC 250, 350, 450 AND 550

MIG



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**LIGHTNING® REPLACEMENT PARTS – SEMI-AUTOMATIC 250, 350, 450 AND 550**

**1. GOOSENECKS**

A	62-5160C	Fixed	60°	250
	63-5100C	Fixed	180°	250-350
	63-5145C	Fixed	45°	250-350
	63-5160C	Fixed	60°	250-350
	64-5100C	Fixed	180°	450
	64-5145C	Fixed	45°	450
	64-5160C	Fixed	60°	450
	65-5160C	Fixed	60°	550
	65-5100C	Fixed	180°	550
	65-5145C	Fixed	45°	550
B	63-5160S	Swivel	60°	250-350
	64-5160S	Swivel	60°	450
	65-5260S	Swivel	60°	550

**2. BODY ASSEMBLY**

A	63-6601	Body Assembly	
	63-6501	Body Set Screw	
B	63-5104	Body Assembly Swivel Mount	

**3. CONNECTOR CONE**

62-6301	Connector Cone	250 AMP
63-6301	Connector Cone	350 AMP
64-6301	Connector Cone	450-550 AMP

**4. CONE NUT**

63-6302	Cone Nut	250-450 AMP
65-6302	Cone Nut	550 AMP

**5. GUN HANDLE - FRONT END**

64-6106	Handle	
64-6602	Switch Housing & Screws	
64-6603	Dual Schedule Trigger	
64-6604	Locking Trigger	
64-6501	Mounting Screw	
64-5110	Mounting Screw Cover	
64-6601	Switch	
62-7902	Clamps	250 AMP
64-7907	Clamps	350-450 AMP
65-7902	Clamps	550 AMP
63-6502	Spring Guard	
64-7901	Switch Lead Connector	
64-7902	Wire Sheath	

Also available:

Gooseneck Heat Shield (not shown)

**6. UNICABLE**

	Length	AMP		Length	AMP
62-7110	10	250	64-7110	10	450
62-7112	12	250	64-7112	12	450
62-7115	15	250	64-7115	15	450
62-7120	20	250	64-7120	20	450
62-7125	25	250	64-7125	25	450
63-7110	10	350	65-7110	10	550
63-7112	12	350	65-7112	12	550
63-7115	15	350	65-7115	15	550
63-7120	20	350	65-7120	20	550
63-7125	25	350	65-7125	25	550

**UNICABLE BULK  
(per foot)**

62-7300	250 AMP
63-7300	350 AMP
64-7300	450 AMP
65-7300	500 AMP

**MIG**

**7. BACK END**

64-7902	Wire Sheath	
64-8403	Control Plug (Lincoln/Bell plug)	
64-8404	Control Plug (Standard)	
64-8306	Control Plug (Miller amphenol 2 pin)	
64-7909	Control Plug Connector	
63-6502	Spring Guard	
62-7902	Clamp	250 AMP
64-7907	Clamp	350-450 AMP
65-7902	Clamp	550 AMP
64-6106	Handle	
63-6101	Housing & Screws	
64-6501	Screws	
64-8303	Guide Cap, .035-1/16, Amphenol (Miller)	
64-8304	Guide Cap, 5/64-3/32, Amphenol (Miller)	
64-8306	Butt Connectors, Amphenol (Miller)	
MSAK-354	Spade Connectors (female), Amphenol (Miller)	

**8. POWER PIN MOUNT**

64-8208	Power Pin Mount
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**9. POWER PINS**

A	64-8211	Tweco Std, Tweco #4
B	64-8311	Miller
C	64-8411	Lincoln

**NOT SHOWN**

64-8501	Bernard
64-8100	Euro
64-8212-L	Tweco #5

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## 16 AMERICAN TORCH TIP



### SEMI-AUTOMATIC GUN 250, 350, 450, 550 AMPS

#### Tapered Contact Tip and Diffuser

- Tip and diffuser design allows for greater heat dissipation and electrical conductivity.
- Easy start contact tip has quick change double thread.

#### Rugged Gooseneck

- Insulated aircraft aluminum protects the gooseneck.
- 650 AMP capacity.

#### Easy Pull Trigger Switch

- Lifetime Warranty on handle and trigger switch.

#### Durable Metal Trigger High Strength

- Ergonomic engineered plastic handle is designed with special impact additives that stands up to extreme impact.

#### Strain Relief

- Supports cable weight and reduces cable kinking.
- Helps reduce welder fatigue.

#### Power Cable

- Outer insulation is tear and abrasion resistant.
- Hytrel<sup>®</sup>† tubing is kink resistant.
- Maximum amount of copper strands offer maximum productivity.

### CONSUMABLES FEATURES

#### Nozzle

- Hard drawn copper or brass in variety of shapes and sizes.
- High polished finish offers superior spatter protection.
- Brass inserts designed to protect against wear and offers superior nozzle protection.

#### Tip

- Dual Thread
- Tapered Seat
- Acme Coarse Thread



MIG

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**SEMI-AUTOMATIC GUN ORDERING SYSTEM**

**CONSUMABLE PARTS**

- L Lightning
- LC Large Curve
- SC Small Curve

**POWER PIN**

- 5T Tweco #5
- T Tweco/Std.
- B Bernard
- E Euro
- H Hitachi
- LN Lincoln
- M Miller
- P Panasonic

**GUN MODEL**

- 20 250 amp
- 30 350 amp
- 40 450 amp
- 50 550 amp

**CABLE LENGTH**

- 10 10 feet
- 12 12 feet
- 15 15 feet
- 20 20 feet
- 25 25 feet

**WIRE SIZE**

- 30 .030"
- 35 .035"
- 10 1.0 mm
- 45 .045"
- 52 .052"
- 116 1/16"
- 332 3/32"
- 364 3/64" al
- 564 5/64"

**L T 40 15 - 45**

**MIG**

**DUTY CYCLE AMPERAGE RATINGS**

Gun Model	60% Duty Cycle - Mixed Gases 100% Duty Cycle - CO <sub>2</sub>
250 amp	250 amps
350 amp	350 amps
450 amp	450 amps
550* amp	550 amps

**\* THE 550 AMP RATING DOES NOT APPLY TO THE SMALL CURVE GUN.**



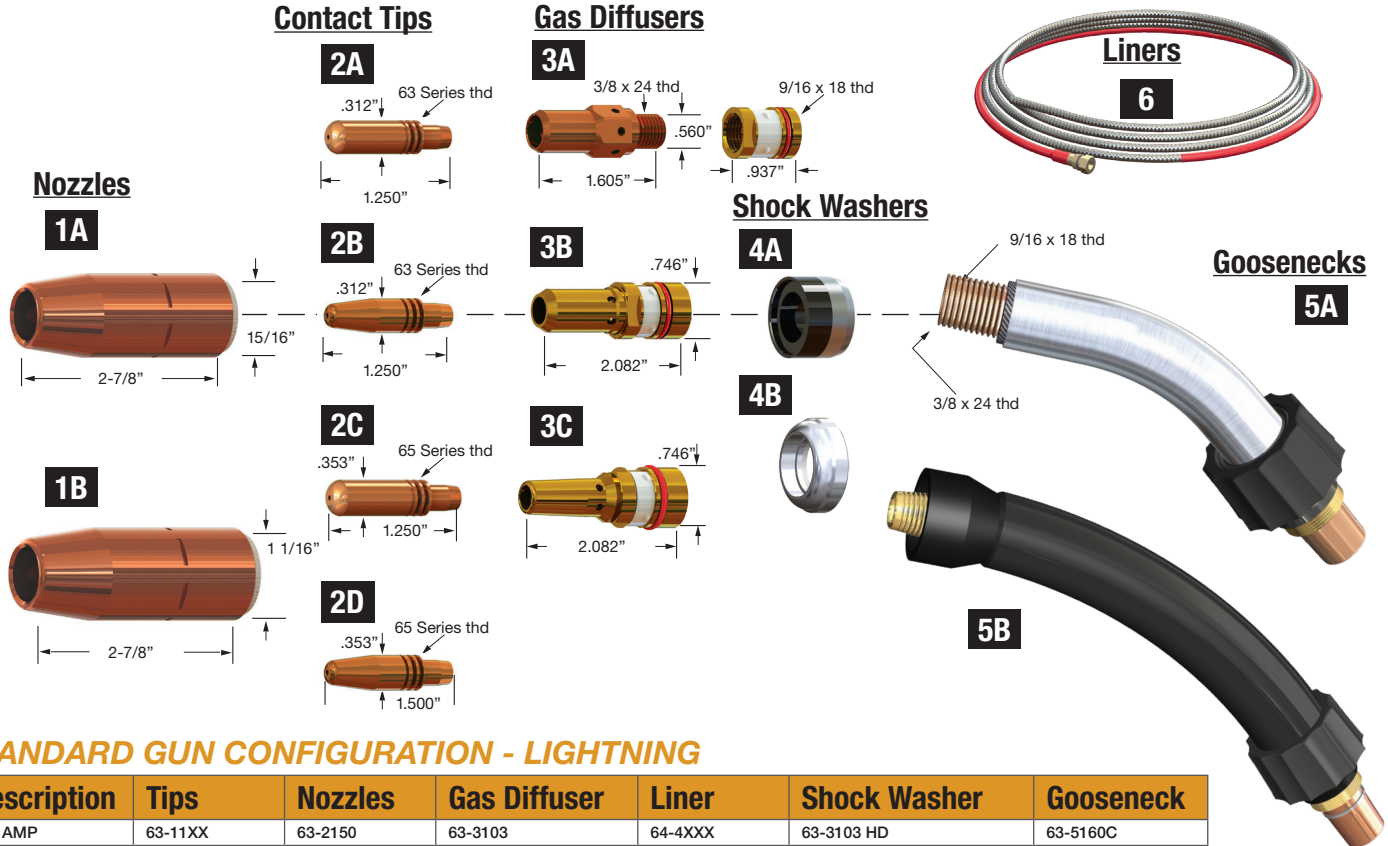
**CONSUMABLES AND REPLACEMENT PARTS ON FOLLOWING PAGES**

† American Torch Tip Company (ATTC) is a proud US manufacturer of more than 80 years producing products for 6 major cutting and welding technologies. ATTC is in no way affiliated with the above-named original equipment manufacturer(s). References to the above-named manufacturers, tradenames and part numbers are for your convenience only. Most parts advertised for sale are made by or for American Torch Tip and other parts as indicated are original parts manufactured by above-named, original equipment manufacturer (OEM) and are simply being re-sold by American Torch Tip. Footnotes: \* = OEM; # = American Torch Tip is licensed to make and sell this part by named manufacturer; ATTC and ATT suffix = This part is an original American Torch Tip design and is not manufactured identical to the OEM design; ® indicates a registered trademark, trade name, or product name of the above-named company. PHD™, PHDX™, Lightning®, Waltec™, Integra™, Lasertec® Laser Division of American Torch Tip®, Multi-Use™ and ProMix™ are trademarks owned by American Torch Tip Company. © Copyright 2024, American Torch Tip Company

# 18 AMERICAN TORCH TIP

## LIGHTNING® CURVE CONSUMABLES – SEMI-AUTOMATIC 250, 350, 450 & 550 AMPS

MIG



### STANDARD GUN CONFIGURATION - LIGHTNING

Description	Tips	Nozzles	Gas Diffuser	Liner	Shock Washer	Gooseneck
250 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-3103 HD	63-5160C
350 AMP	63-11XX	63-2150	63-3103	64-4XXX	63-6202 HD	63-5160C
450 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160C
550 AMP	63-11XX	65-2562	63-3103	64-4XXX	63-6202 HD	64-5160C

Heavy duty setup is available on request

### 1. NOZZLES - INSULATED

A	63-2138	Flush	3/8"
	63-2138-T	Flush, Thrded	3/8"
	63-2150	1/8" Recess	1/2"
	63-2150-T	1/8" Recess, Thrded	1/2"
	63-2950-B	1/8" Recess, Brass	1/2" Strt Bore
	63-9250-B-T	1/8" Recess, Thrded, Brass	1/2" Strt Bore
	63-2950	1/8" Recess	1/2" Strt Bore
	63-2950-T	1/8" Recess, Thrded	1/2" Strt Bore
	64-2950	1/8" Stickout	1/2" Strt Bore
	64-2950-T	1/8" Stickout, Thrded	1/2" Strt Bore
	63-2162	1/8" Recess	5/8"
	63-2162-T	1/8" Recess, Thrded	5/8"
	63-2762	1/4" Stickout	5/8"
	63-2662	1/8" Stickout	5/8" Strt Bore
	63-2662-T	1/8" Stickout, Thrded	5/8" Strt Bore
B	63-2662-B	1/8" Stickout, Brass	5/8" Strt Bore
	63-2662-TB	1/8" Stickout, Thrded, Brass	5/8" Strt Bore
	63-2175	1/8" Recess	3/4" Strt Bore
	65-2550	1/8" Recess	1/2"
	64-2562	1/4" Recess	5/8"
	64-2562-T	1/4" Recess, Thrded	5/8"
	65-2562	1/8" Recess	5/8"

### 1. NOZZLES - INSULATED (CONTINUED)

65-2562-T	1/8" Recess, Thrded	5/8"
64-2962	Flush	5/8" Strt Bore
64-2962-T	Flush, Thrded	5/8" Strt Bore
64-2962-S	1/8" Stickout	5/8" Strt Bore
65-2662	1/8" Stickout	5/8"
65-2662-T	1/8" Stickout, Thrded	5/8"
65-2362	1/8" Stickout, Brass	5/8"
65-2362-T	1/8" Stickout, Thrded, Brass	5/8"
65-2862	Flush, Brass	5/8"
63-2262	1/8" Stickout, Brass	5/8"
63-2262-C	1/8" Stickout, Copper	5/8"
63-2362	1/8" Recess, 1-1/8" Brass	5/8" Strt Bore
63-2362-C	1/8" Recess, 1-1/8" Copper	5/8" Strt Bore
63-2362-C-T	1/8" Recess, Thrded, 1-1/8" Copper	5/8" Strt Bore
65-2875	Flush, Brass	3/4"
65-2375	1/8" Recess, Brass	3/4"
65-2375-T	1/8" Recess, Thrded Brass	3/4"
64-2575	1/4" Recess	3/4"
65-2575	1/8" Recess	3/4"
65-2575-T	1/8" Recess, Thrded	3/4"
64-2387	1/8" Recess, Brass	7/8" Strt Bore

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**2. CONTACT TIPS**

				I.D.
A	63-1130	HD	.030 (0.8mm)	.037
	63-1135	HD	.035 (0.9mm)	.043
	63-1138	HD	.038	.037
	63-1135-40	HD	.035/.040	.040
	63-1140	HD	.040 (1.0mm)	.048
	63-1145	HD	.045 (1.2mm)	.055
	63-1147	HD	3/64"	.060
	63-1152	HD	.052 (1.3mm)	.063
	63-1152-059	HD	.052	.059
	63-1162	HD	1/16"	.073
	63-1168	HD	.068	.078
	63-1172	HD	.072	.081
	63-1178	HD	5/64 (2.0mm)	.093
	63-1193	HD	3/32 (2.4mm)	.110
	63-1330	HD Long Life CrCu	.030	.037
	63-1335	HD Long Life CrCu	.035	.043
	63-1340	HD Long Life CrCu	.040	.045
	63-1345	HD Long Life CrCu	.045	.050
	63-1352	HD Long Life CrCu	.052	.059
	63-1352-SP	HD Long Life CrCu	.056/.059	.059
	63-1362	HD Long Life CrCu	1/16"	.070
	63-1378	HD Long Life CrCu	6/64:	.093
	63-1393	HD Long Life CrCu	3/32"	.110
B	63-1230	HD Tpr	.030 (0.8mm)	.037
	63-1235	HD Tpr	.035 (0.9mm)	.043
	63-1235-40	HD Tpr		
	63-1245	HD Tpr	.045 (1.2mm)	.055
	63-1245-50	HD Tpr	.035/.040	.040
	63-1252	HD Tpr	.052 (1.3mm)	.063
	63-1262	HD Tpr	1/16"	.073
	63-1130T	HD Tpr Long I.P. CrCu	.030	.037
	63-1135T	HD Tpr Long I.P. CrCu	.035	.043
	63-1145T	HD Tpr Long I.P. CrCu	.045	.050
	63-1152T	HD Tpr Long I.P. CrCu	.052	.059
C	65-1130	Extra HD	.030	.037
	65-1135	Extra HD	.035	.043
	65-1140	Extra HD	.040	.048
	65-1145	Extra HD	.045	.055
	65-1145-050	Extra HD	.045/.050	.050
	65-1147	Extra HD	.047	.060
	65-1152	Extra HD	.052	.063
	65-1162	Extra HD	1/16	.073
	65-1178	Extra HD	5/64	.093
	65-1193	Extra HD	3/32	.110
	65-1130AL	Extra HD, AL	.040	.048
	65-1135AL	Extra HD, AL	.048	.060
	65-1335	Extra HD Long Life CuCr	.035	.040
	65-1345	Extra HD Long Life CuCr	.045	.050
	65-1352	Extra HD Long Life CuCr	.052	.059
	65-1362	Extra HD Long Life CuCr	1/16	.070
D	65-1230	Extra HD Tpr	.030	.037
	65-1235	Extra HD Tpr	.035	.043
	65-1245	Extra HD Tpr	.045	.055
	65-1252	Extra HD Tpr	.052	.063
	65-1262	Extra HD Tpr	.062	.073
	65-1345T	Extra HD Tpr, Long Life CrCu	.045	.050

Note: 65-11xx series tips are only to be used with 65 series Lightning Diffusers. Please call for information.

**3. GAS DIFFUSERS & RETAINER**

A	63-3201	Diffuser, Copper
	63-3104	Retainer
B	63-3103	Standard

**3. GAS DIFFUSERS & RETAINER (CONTINUED)**

	63-3103-2	Robotic, Tapered
	63-3103-2A	Robotic, Tapered, Angled holes
	63-3116	Robotic/Manual, Thrded
	63-3117	Robotic, External Thrded
	63-3118	Bernhard
	63-3118-T	Bernhard, Thrded
	63-3119	Lincoln
	63-3119-T	Lincoln, Thrded
	63-3119-A	Lincoln, Angled holes
	63-3122	SKS
C	65-3103	HD Standard
	65-3103-2	HD Robotic
	65-3116	HD R/M
	65-3116-MC	HD
	65-3119	HD Lincoln
	65-3119-T	HD Lincoln, Thrded

**4. SHOCK WASHERS**

A	63-6202	HD (Heavy Duty)
B	63-6202	

**5. GOOSENECKS (INCLUDES BODY ASSY.)**

ADD S TO THE END OF PART # FOR SWIVEL GOOSENECKS (I.E. 65-6160S)

A.	62-5160C	Fixed	60°	250
	63-5100C	Fixed	180°	250-350
	63-5145C	Fixed	45°	250-350
	63-5160C	Fixed	60°	250-350
	64-5100C	Fixed	180°	450
	64-5145C	Fixed	45°	450
	64-5160C	Fixed	60°	450
	65-5160C	Fixed	60°	550
	65-5100C	Fixed	180°	550
	65-5145C	Fixed	45°	550
B.	65-5100FLX	Flex Neck	8"	
	63-5100FLX	Flex Neck	6"	

**6. LINERS**

Part#	Wire Size	Length	OD	
64-4115	.023"	(.6mm)	15'	0.150
62-4315	.035"	(.9mm)	15'	0.156
62-4325	.035"	(.9mm)	25'	0.156
62-4515	.045"	(1.6mm)	15'	0.156
62-4525	.045"	(1.6mm)	25'	0.156
64-4215	.030"	(.8mm)	15'	0.182
64-4310	.035"	(.9mm)	10'	0.175
64-4315	.035"	(.9mm)	15'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4325	.035"	(.9mm)	25'	0.175
64-4415	.035"	(.9mm)al	15'	0.189
64-4510	.045"	(1.6mm)	10'	0.189
64-4515	.045"	(1.6mm)	15'	0.189
64-4525	.045"	(1.6mm)	25'	0.189
64-4510	3/64"	(1.6mm)	10'	0.189
64-4515	3/64"	(1.6mm)	15'	0.189
64-4525	3/64"	(1.6mm)	25'	0.189
64-4510	.52"	(1.6mm)	10'	0.189
64-4515	.52"	(1.6mm)	15'	0.189
64-4525	.52"	(1.6mm)	25'	0.189
64-4510	1/16"	(1.6mm)	10'	0.189
64-4515	1/16"	(1.6mm)	15'	0.189
64-4525	1/16"	(1.6mm)	25'	0.189
64-4615	3/64-1/16al		15'	0.189
64-4715	5/64-3/32		15' Flat	0.189
64-4815	5/64-3/32	FC 10'	0.21	
64-4915	.035 - .045 (for SS Wire)		15'	0.192

## 22 AMERICAN TORCH TIP

### LIGHTNING® COMPLETE POWER PIN (BACK END) ASSEMBLIES SEMI-AUTOMATIC – 250, 350, 450 AND 550 AMP

MIG

**Tweco #4**  
64-8201



**Bernard**  
64-8501



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



**Daiden**  
64-8501



**Panasonic**  
64-8702



**Euro**  
64-8100



**Thermal Arc**  
64-8901



**Hitachi**  
64-8422



**Tweco #5**  
64-8204



**Lincoln**  
64-8401

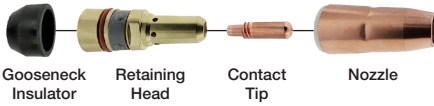


**LIGHTNING® SEMI-AUTOMATIC GUN CONVERSION KITS AVAILABLE FOR & COMPATIBLE WITH BERNARD®, LINCOLN® & TWECO® WITH A SIMPLE CHANGE-OUT OF PARTS†**

**LIGHTNING® RETAINING HEADS**

Part #	Description
65-3103*	Retaining Head for Extra Heavy Duty
63-3103	Retaining Head T/L
63-3103-2	Retaining Head T/L
63-3116	Thread-on Retaining Head HD
63-3402	Retaining Ring
63-3301	O-Ring Orange 016
63-3118-T	Diffuser, Bernard® Threaded

\*This retaining head must be used with #65-11XX contact tip. See Contact Tips Selector Chart on pg. 2



**BENEFITS**

- ✓ Greater surface area contact between tip and head ensures better heat dissipation and conductivity.
- ✓ Tapered tip design creates a more secure seat, eliminating loose tips.
- ✓ Cooler tip temperature reduces wear and extends tip life.
- ✓ Dual-lead thread design allows for 180 degree rotation of tip to new wear point for extended tip life.
- ✓ Brass insert prevents wear and extends life.
- ✓ Superior surface finish minimizes spatter adhesion.
- ✓ Durable hard drawn copper or brass withstands abuse.

**Lightning® Contact Tips Selector Chart**

Part #	Description
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035/.040 I.D. pk 10
63-1138	Contact Tip HD .030 pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068/.078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip
63-12XX	XX = last 2 digits indicate wire size
Part #	CZ Tip (Chromium Zirconium)
63-13XX	XX + last 2 digits indicate wire size
Part #	Extra Heavy Duty Tip
65-11XX*	XX = last 2 digits indicate wire size

\*This contact tip must be used with #65-3103 retaining head. See Lightning Retaining Heads Chart on pg. 1

**BERNARD® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Q-Gun Series	63-6105	63-3118	63-11XX <sup>‡</sup>	6X-XXXX**
EZ Feed Series	63-6105	63-3118	63-11XX <sup>‡</sup>	6X-XXXX**
T-Series <sup>†</sup>	63-6202-HD	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
Roughneck C Miller	63-6105	63-3118	63-11XX <sup>‡</sup>	6X-XXXX**

**LINCOLN® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Magnum 300	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
Magnum 400	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
Magnum Pro	63-6105	63-3119	63-11XX <sup>‡</sup>	6X-XXXX**

**TWECO® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Tweco #3	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
Tweco #4	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
SprayMaster 450	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**
WeldSkill 400	63-6105	63-3103	63-11XX <sup>‡</sup>	6X-XXXX**

Use the Lightning® contact tip system (gooseneck insulator, retaining head, contact tip and nozzle) with Bernard® Lincoln® or Tweco® MIG guns.

Use 63-3118 Retaining Head on goosenecks with external 9/16"-18 thread, such as Q-gun and EZ Feed guns with 1/4" NPT thread.

† T-Series retaining head can only be used on Bernard® T-Series (Tregasskiss®) guns.

‡ 63-11XX (XX = your wire size)

\*\* 6X-XXXX (see Nozzle Selector Chart on next page)

**Lightning® Nozzle Selector Chart (Air-Cooled Slip On)**

Standard Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
64-2950	1/2" Brass	.938" / 2.63"	1/8" Stickout
63-2950B	1/2" Brass	.938" / 2.88"	1/8" Recess
63-2150	1/2" Copper	.938" / 2.88"	1/8" Stickout
63-2762	5/8" Copper	.938" / 2.51"	1/4" Stickout
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stickout
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
Heavy Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stickout
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stickout
64-2962	5/8" Copper	1.062" / 2.75"	Flush
65-2862	5/8" Brass	1.062" / 2.75"	Flush
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
64-2562	5/8" Copper	1.062" / 3.00"	1/4" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
65-2375	3/4" Brass	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess
64-2387	7/8" Brass	1.062" / 3.00"	1/4" Recess
65-2562-T	5/8" Copper	1.062" / 2.78"	1/8" Recess

MIG

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## 24 AMERICAN TORCH TIP



### ROBOTIC TORCH - 550 AMPS

#### A New Reliability in Robotic Guns

- The Lightning® 550 amp robotic MIG gun has been carefully designed to reduce downtime from part failure, faulty welds and change outs.
- All our components are made to operate in the harsh environment of high volume production. The American Torch Tip Lightning MIG gun stands up to excessive vibration, cable whip, temperature fluctuations and unexpected crashes.
- Precision components allow change outs to be made with confidence that the gooseneck will always be aligned with the gun housing; insuring reliability and repeatability.

#### Nozzle

- High polished finish offers superior spatter protection.
- Hard drawn copper or brass in variety of shapes and sizes.
- Brass inserts designed to protect against wear and offers superior nozzle protection.

#### Tapered Contact Tip and Diffuser

- Tip and diffuser design allows for greater heat dissipation and electrical conductivity.
- Easy start contact tip has quick change double thread.

#### Easy Change Gooseneck

- Fast and simple gooseneck change outs.
- Insulated aluminum protects the gooseneck.
- 650 AMP capacity.

#### High Strength Front End

- Solid Body design crafted from aircraft aluminum that stands up to extreme impact.

#### Strain Relief

- Supports cable weight and reduces cable kinking.

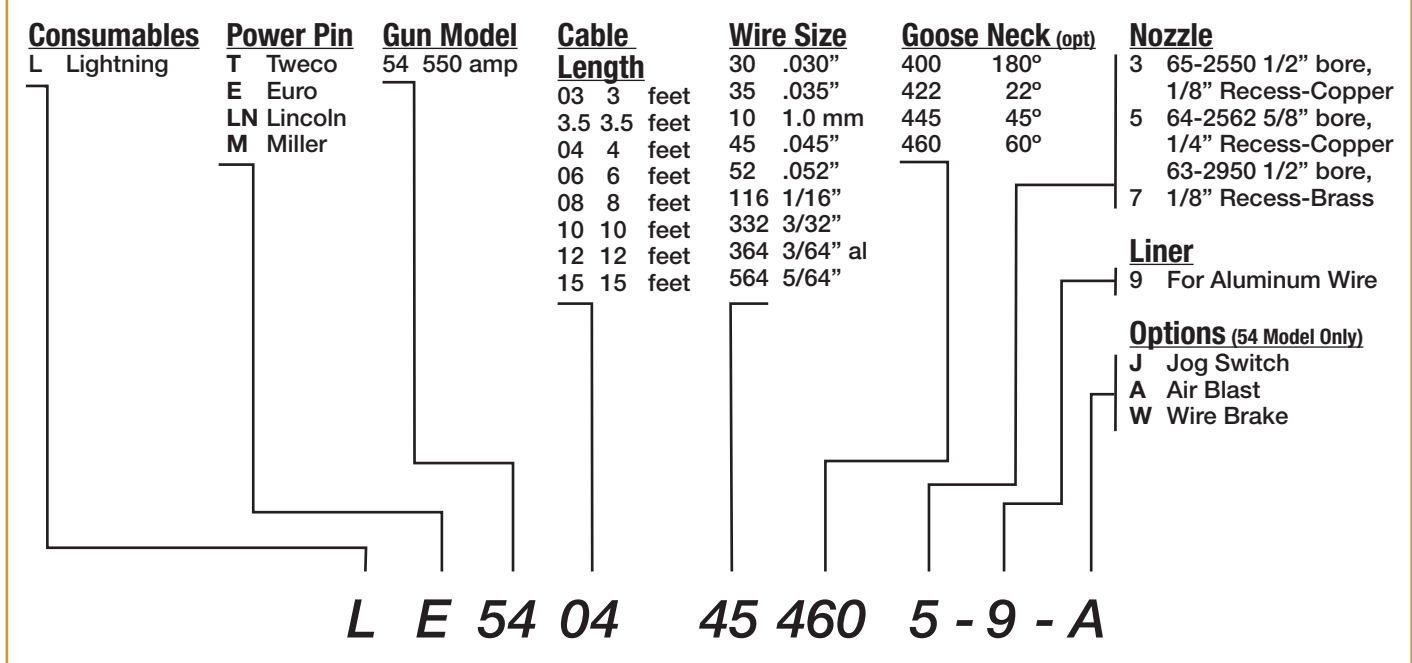
#### Adapters

- 22° robotic arms, adapters for most wire feeders, and a complete line of replacement parts are available.



MIG

**ROBOTIC TORCH – PART NUMBERING SYSTEM**



**MIG**

**DUTY CYCLE AMPERAGE RATINGS**

Gun Model	60% Duty Cycle - Mixed Gases 100% Duty Cycle - CO2
550 amp	550 amps



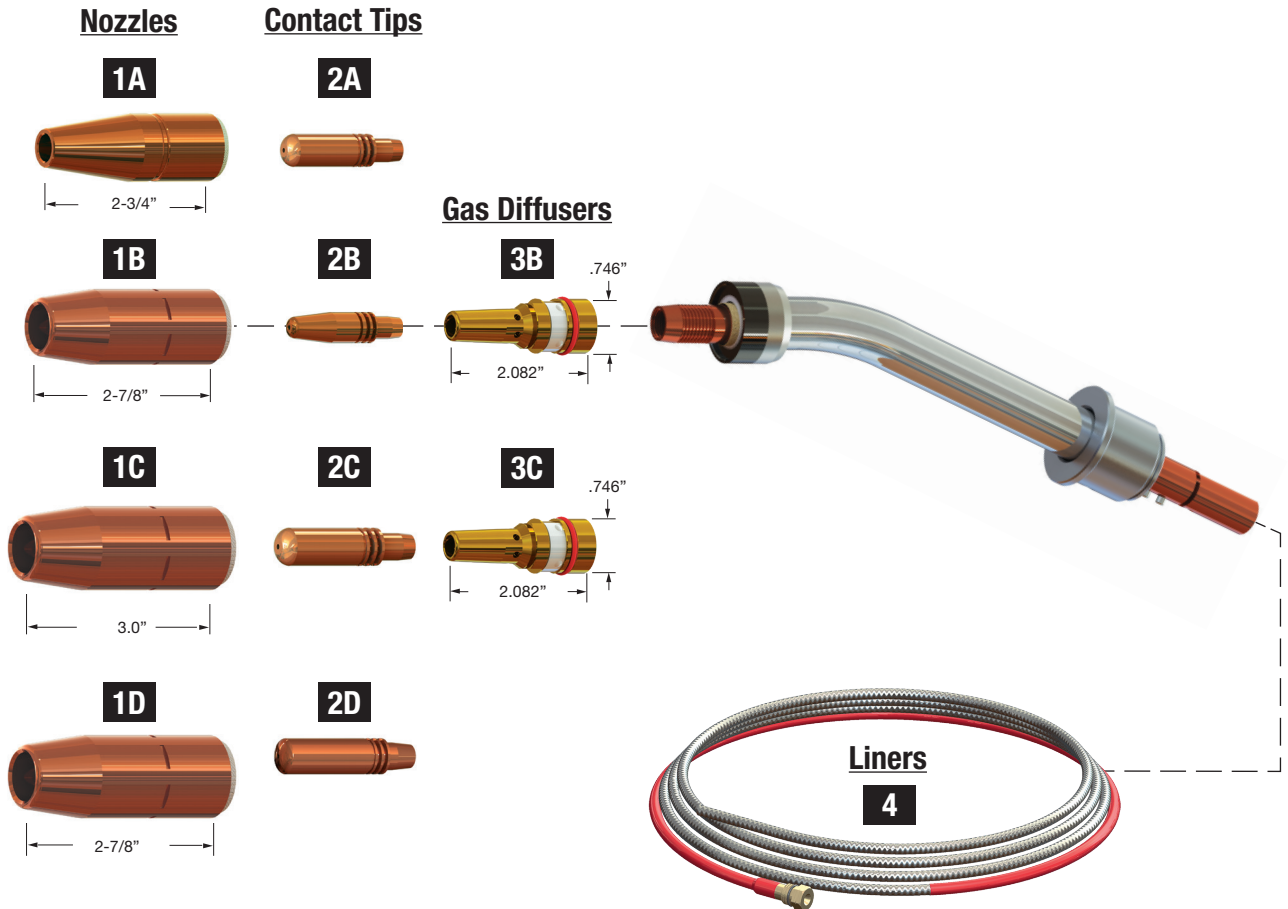
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## 26 AMERICAN TORCH TIP

### LIGHTNING® ROBOTIC TORCH CONSUMABLES – ROBOTIC TORCH 550 AMP

MIG





**LIGHTNING® ROBOTIC TORCH CONSUMABLES – ROBOTIC TORCH 550 AMP**
**MIG**
**1. NOZZLES - INSULATED**

		<b>I.D.</b>
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 HD* Cu 1/4" Tip Rec.	5/8" (15.9mm)
	64-2575 Nozzle HD Cu 1/4" Tip Rec.	3/4" (19.1mm)
D	65-2550 Nozzle HD Cu 1/8" Tip Rec.	1/2" (12.7mm)
	65-2562 Nozzle HD Cu 1/8" Tip Rec.	5/8" (15.9mm)
	65-2575 Nozzle HD 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)
	64-2962 Nozzle Flush	5/8"
Also available		
	65-2862 Nozzle Flush	5/8"
	63-2362 Nozzle 1/8" Stick Out	5/8"
	65-2375 Nozzle 1/8" Recess	3/4"
	64-2387 Nozzle 1/4" Recess	7/8"
	63-2762 Nozzle 1/4" Stick-out	5/8"

**NOTES:**

Threaded versions available for all Nozzles. add "t" to part number.  
Example: 64-2562t

**2. CONTACT TIPS**

		<b>I.D.</b>
A	63-1130 HD *	.030 (0.8mm) .037
	63-1135 HD	.035 (0.9mm) .043
	63-1140 HD	.040 (1.0mm) .048
	63-1145 HD	.045 (1.2mm) .055
	63-1152 HD	.052 (1.3mm) .063
	63-1178 HD	5/64 (2.0mm) .093
	63-1193 HD	3/32 (2.4mm) .110
	63-1162 HD	1/16" (1.6mm) .073
B	63-1230 HD Tapered	.030 (0.8mm) .037
	63-1235 HD Tapered	.035 (0.9mm) .043
	63-1245 HD Tapered	.045 (1.2mm) .055
	63-1252 HD Tapered	.052 (1.3mm) .063
C	63-1335 HD CuCr **	.035 (0.9mm) .043
	63-1345 HD CuCr	.045 (1.2mm) .050
	63-1352 HD CuCr	.052 (1.3mm) .059
	63-1362 HD CuCr	1/16" (1.6mm) .073
	63-1378 HD CuCr	5/64" (2.0mm) .093
	63-1394 HD CuCr	3/32" (2.4mm) .110
D	65-1130 Extra HD	.030 .037
	65-1135 Extra HD	.035 .043
	65-1145 Extra HD	.045 .055
	65-1162 Extra HD	1/16 .067
	65-1178 Extra HD	5/64 .093
	65-1193 Extra HD	3/32 .110
	65-11120 Extra HD	7/64 .120
	65-11125 Extra HD	1/8 .136
	65-1235 Extra HD Tapered	.035 .043
	65-1245 Extra HD Tapered	.045 .055
	65-1252 Extra HD Tapered	.052 .063
	65-1335 Extra HD CuCr **	.035 .040
	65-1345 Extra HD CuCr	.045 .050
	65-1352 Extra HD CuCr	.052 .060
	65-1362 Extra HD CuCr	1/16 .060

\* Heavy Duty, \*\* Copper Zirconium Chromium

**3. GAS DIFFUSERS (USE W/ H.D. NOZZLES)**

B	63-3103-2 HD
	65-3103-2 Extra HD

**4. LINERS**

Part #	Wire Size	Length	O.D.
64-4306	.035"(.9mm)	6'	0.175
64-4310	.035"(.9mm)	10'	0.17
64-4506	.045"(1.6mm)	6'	0.189
64-4510	.045"(1.6mm)	10'	0.189

Call for information about other replacement liners

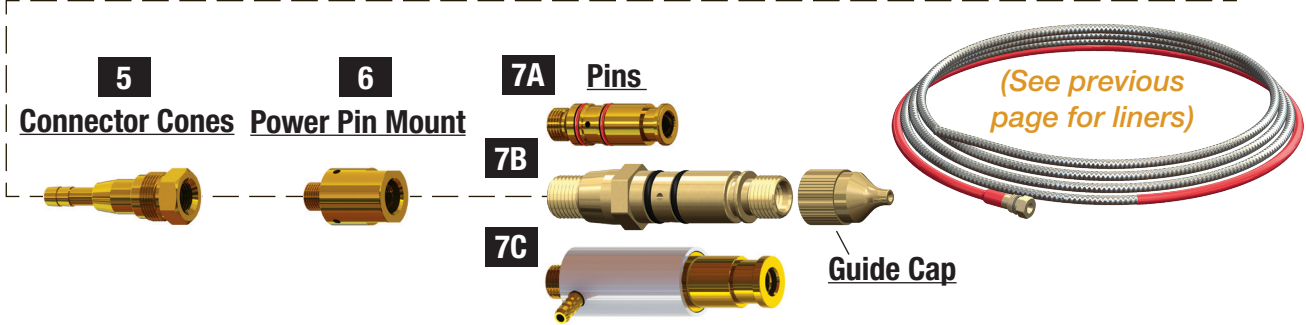
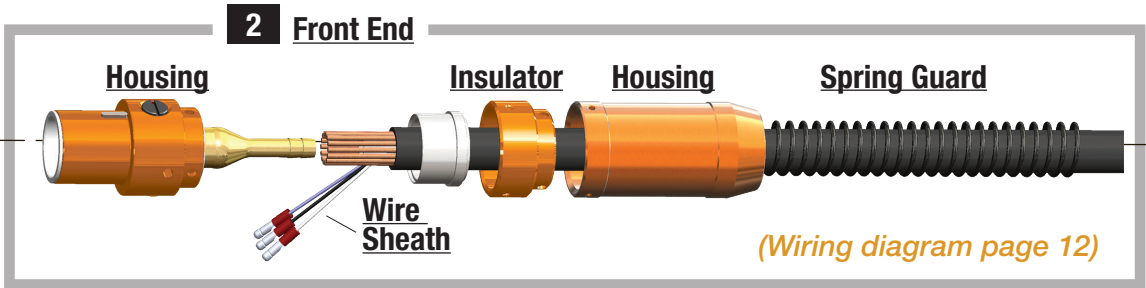
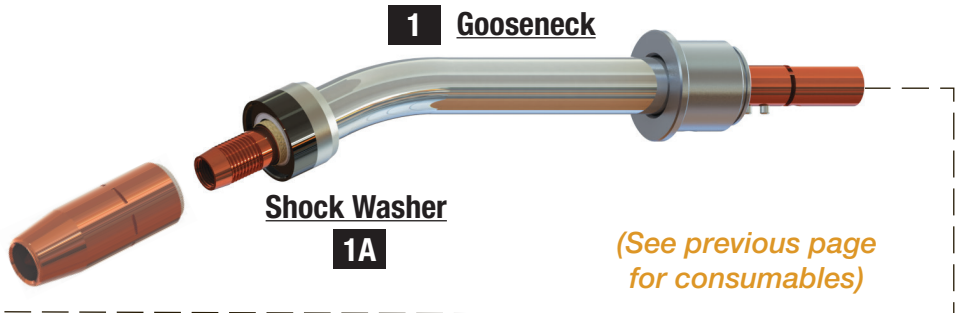
**STANDARD ROBOTIC CONFIGURATION (LIGHTNING®)**

	Standard Short ARC				Heavy Duty				Tapered			
	Nozzle	Contact	Diffuser	Shock Washer	Nozzle	Contact	Diffuser	Shock Washer	Nozzle	Contact	Diffuser	Shock Washer
Lightning 550 AMP	65-2562	63-11XX	63-3103-2	63-6202-HD	65-2562	63-11XX	63-3103-2	63-6202-HD	63-2138	63-12XX	63-3103-2	63-6202-HD
Tregaskiss 550 AMP	65-2562	403-1-XX	404-3	63-6202-HD	65-2562	403-1-XX	404-3	63-6202-HD	63-2138	403-2-XX	404-3	63-6202-HD

28 AMERICAN TORCH TIP

LIGHTNING® ROBOTIC TORCH REPLACEMENT PARTS – OVER ARM ROBOTIC TORCH 550 AMP

MIG



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LIGHTNING® ROBOTIC TORCH REPLACEMENT PARTS – OVER ARM ROBOTIC TORCH 550 AMP

**1. GOOSENECK**

65-R128-180	Gooseneck	180°	550
65-R128-45	Gooseneck	45°	550
65-R128-60	Gooseneck	60°	550
65-R128-22	Gooseneck	22°	550

Special lengths & angles are available. Call for information.

**1A. SHOCK WASHER**

63-6202-HD

**2. TORCH BODY**

62-7902	Wire Sheath
65-6501	Spring Guard

**3. UNICABLE**

Call for information about replacement Unicable

**4. POWER PIN HANDLE**

65-6501	Spring Guard	
65-7902	Clamp (2 required)	550 AMP
64-6106	Handle	
65-6302	Cone Nut	550 AMP
62-7902	Wire Sheat	
63-6101	Wiring Cover	
65-R138	Control Cable	

**5. CONNECTOR CONE**

64-6301	Connector Cone
---------	----------------

**6. POWER PIN MOUNT**

64-8208	Power Pin Mount
---------	-----------------

**7. POWER PINS**

A	64-8211	Tweco Std, Tweco #4
B	64-8311	Miller
C	64-8411	Lincoln

**NOT SHOWN**

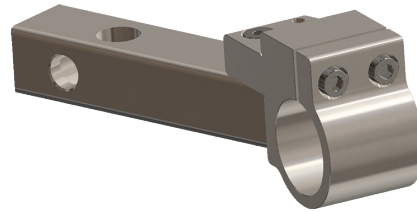
64-8501	Bernard
64-8100	Euro
64-8212-L	Tweco #5

Call for availability of models not listed above.

**ALSO AVAILABLE**



65-R148 Air Blast Hose



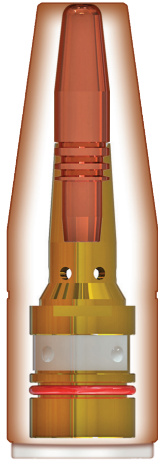
AS-306-3 Adapter 45 degrees  
 AS-306-1 Adapter 22 degrees  
 AS-306-2 Adapter 180 degrees



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# **LIGHTNING®** Consumables Reference Chart

MIG



**63-2138**  
3/8" Bore  
Flush  
Copper  
0.938" O.D.



**63-2150**  
1/2" Bore  
1/8" Recess  
Copper  
0.938" O.D.



**63-2162**  
5/8" Bore  
1/8" Recess  
Copper  
0.938" O.D.



**63-2175**  
3/4" Bore  
1/8" Recess  
Copper  
0.938" O.D.  
Straight Bore



**64-2387**  
7/8" Bore  
1/4" Recess  
Brass  
1.062" O.D.  
Straight Bore



**64-2950**  
1/2" Bore  
1/8" Stickout  
Brass  
0.938" O.D.  
Straight Bore



**64-2962**  
5/8" Bore  
Flush  
Copper  
1.062" O.D.  
Bottle Neck



**65-2562**  
5/8" Bore  
1/8" Recess  
Copper  
1.062" O.D.



**65-2362**  
5/8" Bore  
1/8" Stickout  
Brass  
1.062" O.D.

All Lightning® consumables are interchangeable for custom configurations.  
All nozzles are available in threaded versions for use with threaded diffuser.

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MIG



**63-2362**  
5/8" Bore  
1/8" Recess  
Brass  
1.120" O.D.  
Straight Bore



**63-2662**  
5/8" Bore  
1/8" Stickout  
Copper  
0.938" O.D.



**63-2950B**  
1/2" Bore  
1/8" Recess  
Brass  
0.938" O.D.  
Straight Bore



**64-2562**  
5/8" Bore  
1/4" Recess  
Copper  
1.062" O.D.



**64-2575**  
3/4" Bore  
1/4" Recess  
Copper  
1.062" O.D.



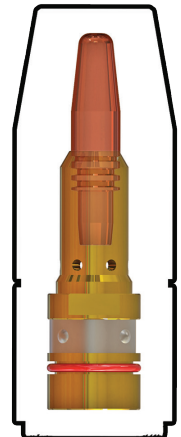
**65-2375**  
3/4" Bore  
.125 Recess  
Brass  
1.120" O.D.  
Straight Bore



**65-2575**  
3/4" Bore  
1/8" Recess  
Copper  
1.062" O.D.



**65-2662**  
5/8" Bore  
1/8" Stickout  
Copper  
1.062" O.D.



**65-2550**  
1/2" Bore  
1/8" Recess  
Copper  
1.062" O.D.

All Lightning® consumables are interchangeable for custom configurations.  
All nozzles are available in threaded versions for use with threaded diffuser.

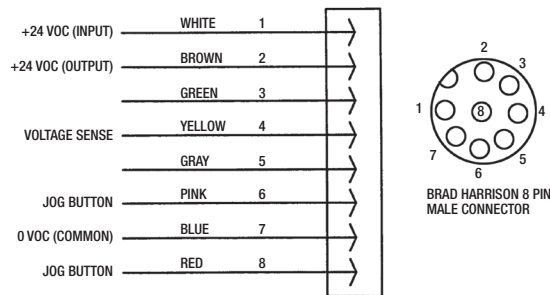
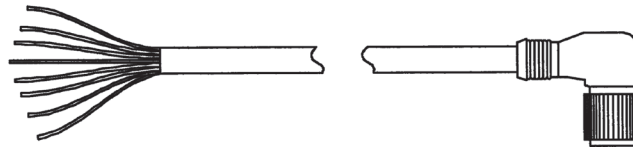
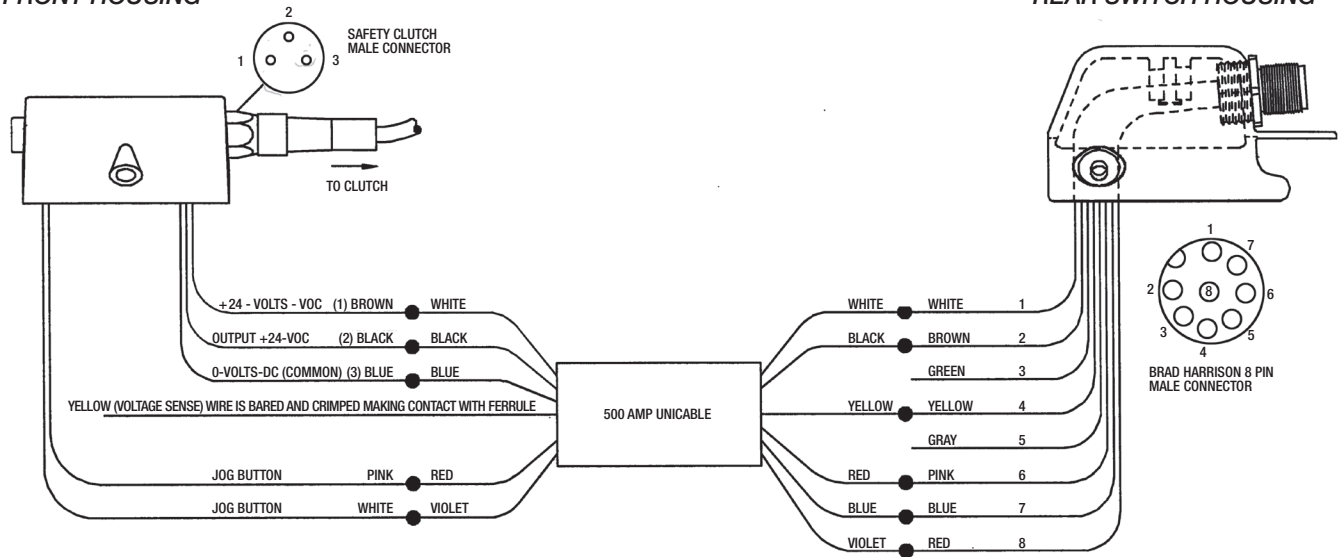
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# 32 AMERICAN TORCH TIP

## LIGHTNING® WIRING DIAGRAM – ROBOTIC TORCH 550 AMP

FRONT HOUSING

REAR SWITCH HOUSING

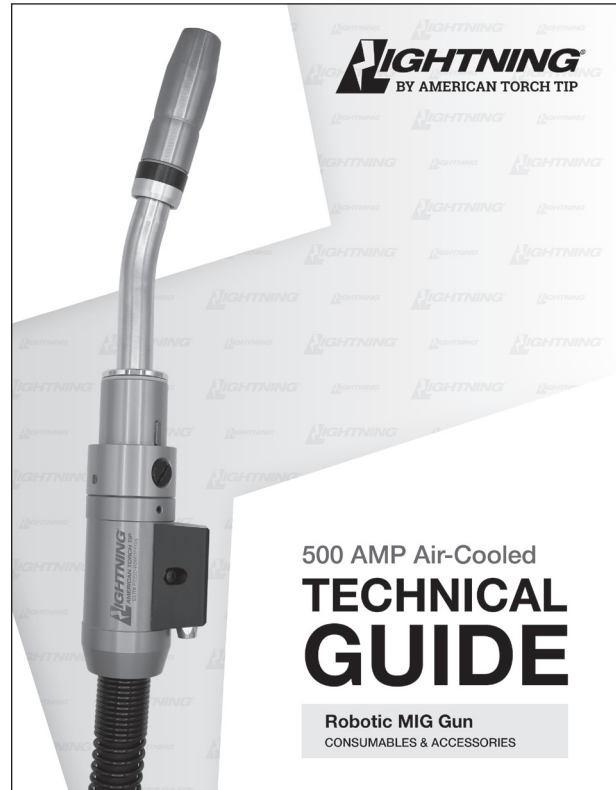
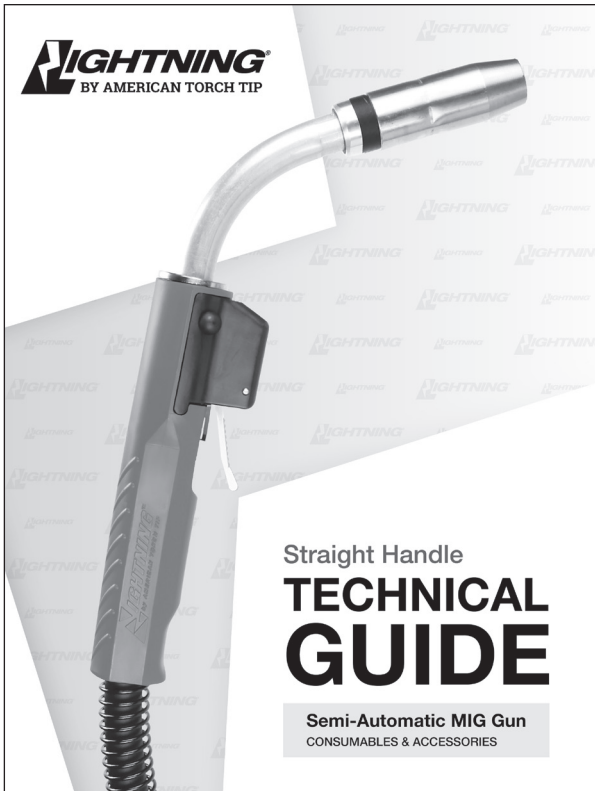


MIG

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Download these Technical Guides and other **LIGHTNING**<sup>®</sup> literature at [AmericanTorchTip.com/resources/manuals](http://AmericanTorchTip.com/resources/manuals), or click the linked covers below.



MIG

## 34 AMERICAN TORCH TIP

### LIGHTNING® TROUBLESHOOTING

#### 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.

MIG

#### TROUBLESHOOTING

##### CONTACT TIP BURNBACK

###### Possible Cause

1. Improper voltage and / or wire feed speed.
2. Erratic wire feeding.
3. Improper tip stickout.
4. Improper electrode stickout.
5. Faulty ground.

###### Possible Solution

1. Set parameters.
2. See 'Erratic Arc'.
3. Adjust nozzle / tip relationship
4. Adjust torch to base metal relationship.
5. Repair all cables and connectors.

##### TIP DISENGAGES FROM RETAINING HEAD

###### Possible Cause

1. Worn retaining head.
2. Improper tip installation.

###### Possible Solution

1. Replace tip and/or retaining head.
2. Finger-tighten, then finish tightening with the appropriate tool.

##### ERRATIC ARC

###### Possible Cause

1. Worn contact tip.
2. Buildup inside of liner.
3. Wrong tip size.
4. Incorrect Welding Parameters.

###### Possible Solution

1. Replace.
2. Replace liner, check condition of electrode.
3. Replace with correct tip size.
4. Use wire manufacturer's parameters.

##### EXCESS SPATTER

###### Possible Cause

1. Improper machine parameters.
2. Incorrect tip or installation.
3. Incorrect nozzle or shielding.
4. Contaminated wire or work piece.

###### Possible Solution

1. Adjust parameters.
2. Adjust nozzle / tip relationship.
3. Use correct nozzle and shielding gas coverage.
4. Replace wire and clean work piece.

*continued >*



**TROUBLESHOOTING continued**

**DISCOLORED LINER**

Possible Cause	Possible Solution
1. Short circuit to electrode.	1. Check for wire short circuiting in feeder.
2. Cuts in outer jacket, copper exposed.	2. Replace gun.

**WIRE NOT FEEDING OR BUMPY FEEDING**

Possible Cause	Possible Solution
1. Feeder relay / malfunction.	1. Consult feeder manufacturer.
2. Broken control lead.	2. Connect spare control leads.
3. Poor adaptor connection.	3. Test and replace leads and/or contact pins.
4. Incorrect type of drive rolls.	4. Use manufacturers recommended drive rolls.
5. Improper drive rolls size.	5. Replace with proper size.
6. Drive roll tension misadjusted.	6. Adjust tension at feeder.
7. Burn back to contact tip.	7. See 'Contact tip burn back'.
8. Wrong size liner.	8. Replace with correct size.
9. Buildup inside of liner.	9. Replace liner, check condition of electrode.
10. Worn drive roll.	10. Replace with new drive roll.
11. Improper guide tube relationship.	11. Eliminate all gaps in electrode path.
12. Improper wire guide diameter.	12. Replace with proper guide diameter.
13. Gaps at liner into gas diffuser.	13. Reset liner and lock or replace with new liner.

**PREMATURE CONTACT TIP FAILURE**

Possible Cause	Possible Solution
1. Improper voltage or wire feed speed.	1. Set parameters.
2. Erratic wire feeding.	2. See 'Erratic Arc'.
3. Improper tip stickout.	3. Adjust nozzle / tip relationship.
4. Improper electrode stickout.	4. Change length of wire stickout.

**MIG GUN RUNNING HOT**

Possible Cause	Possible Solution
1. Exceeding duty cycle.	1. a. Replace with properly rated duty cycle MIG Gun. 1. b. Decrease parameters to within Gun rating.
2. Loose or poor power connection.	2. a. Clean and retighten all electrical connections. 2. b. Check rating and condition of ground clamp.

**POROSITY IN WELD**

Possible Cause	Possible Solution
1. Nozzle/Insulator/O-rings worn.	1. Replace.
2. Retaining head spring/band.	2. Replace retaining head.
3. Extreme heat or duty cycle.	3. Use Xheavy duty consumables.
4. Gas not getting to the weld.	4. Check gas regulator/flowmeter/cylinder.
5. Gas ports plugged.	5. Clean or replace gas diffuser//nozzle.
6. Loose fittings or cut gas hose.	6. Tighten or repair hose lines.

**MIG**

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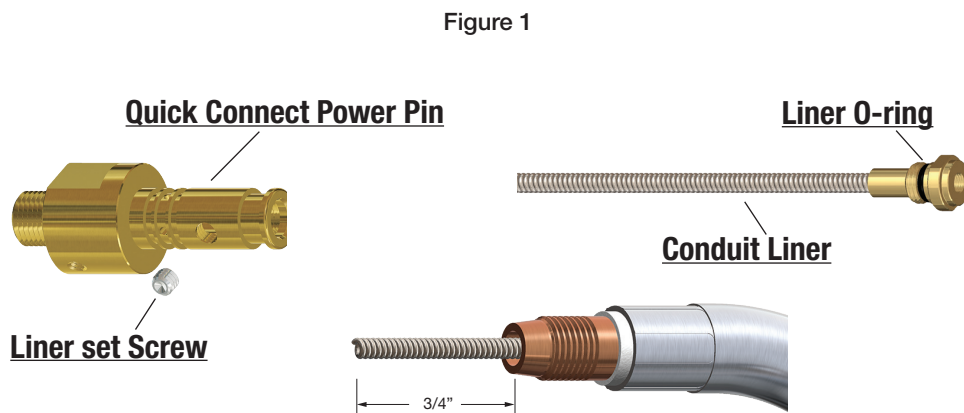
## 36 AMERICAN TORCH TIP

### LIGHTNING® 1.1 LINER REPLACEMENT

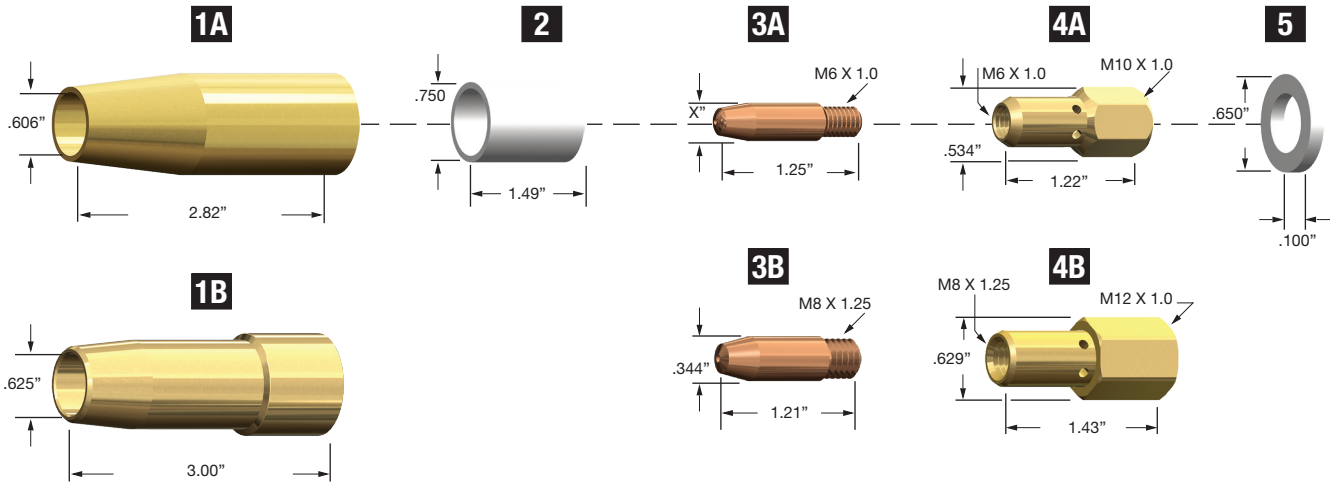
#### TOOLS REQUIRED

- Vise
- 5/64 Allen wrench
- Lineman pliers

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.
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.



**MIG**

**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	750-35-511	Contact Tip	.281 OD	.035
	750-45-511	Contact Tip	.281 OD	.045
	750-45-522F	Contact Tip	.312 OD	
B	750-35-014	Contact Tip		.035
	750-45-014	Contact Tip		.045
	750-45-014-LL	Contact Tip CuCr		.050
	750-52-014	Contact Tip		.052
	750-52-014-LL	Contact Tip CuCR		.059
	750-62-014	Contact Tip		

**4. DIFFUSER**

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

**5. INSULATING WASHER**

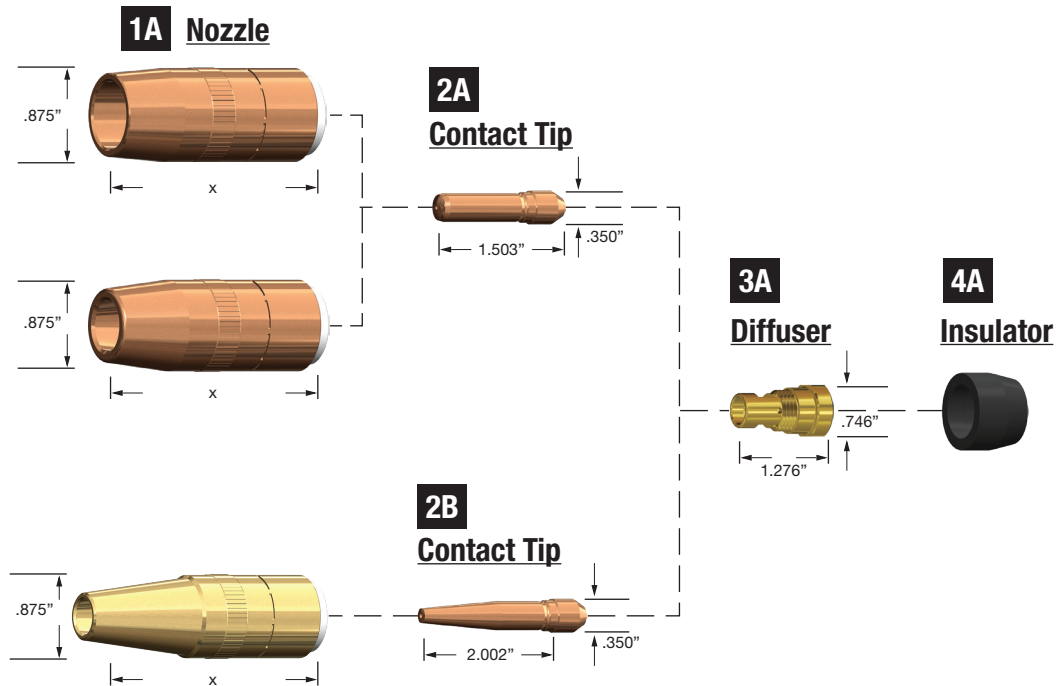
750-01-005	Insulating Washer 300A
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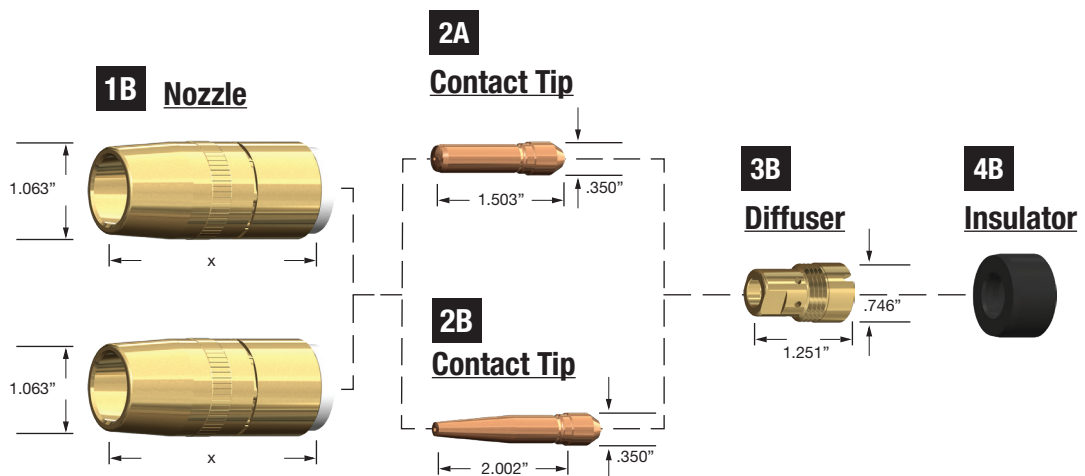
# 38 BERNARD® STYLE

COMPATIBLE WITH CENTERFIRE™†

MIG



COMPATIBLE WITH LARGE CENTERFIRE™†



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**COMPATIBLE WITH CENTERFIRE™†**
**MIG**

<b>1. NOZZLES</b>		<b>I.D.</b>	<b>LENGTH</b>		
A	NS-5800C	Flush Copper	5/8"	2.015	
	NS-5818C	1/8" Recess Copper	5/8"	2.141	
	NS-5800B	Flush Brass	5/8"	2.015	
	NS-5818B	1/8" Recess Brass	5/8"	2.141	
	NS-1218C	1/8" Recess Copper	1/2"	2.141	
	NS-1200B	Flush Brass	1/2"	2.015	
	NS-1218B	1/8" Recess Brass	1/2"	2.141	
	NST-3800B	Flush Brass	3/8"	2.015	
	NST-3818B	1/8" Recess Brass	3/8"	2.141	
	NT-3800C	3/8" Flush Copper	3/8"	1.063	
	B	N-3400C	Flush Copper	3/4"	2.259
		N-3418C	1/8" Recess Copper	3/4"	2.387
		N-3414C	1/4" Recess Copper	3/4"	2.510
		N-3418B	1/8" Recess Brass	3/4"	2.387
N-3414B		1/4" Recess Brass	3/4"	2.510	
N-5800C		Flush Copper	5/8"		
N-5818C		1/8" Recess Copper	5/8"	2.385	
N-5814C		1/4" Recess Copper	5/8"	2.506	
N-5818B		1/8" Recess Brass	5/8"	2.385	
N-5814B		1/4" Recess Brass	5/8"	2.506	

<b>2. CONTACT TIPS</b>		<b>I.D.</b>	
<b>T Series Contact Tips</b>			
A	T-023	Contact Tip	.023" (0.6 mm)
	T-030	Contact Tip	.030" (0.8 mm)
	T-035	Contact Tip	.035" (0.9 mm)
	T-039	Contact Tip	.039" (1.0 mm)
	T-045	Contact Tip	.045" (1.2 mm)
	T-052	Contact Tip	.052" (1.4 mm)
	T-062	Contact Tip	.062" (1.6 mm)
	T-072	Contact Tip	1/16" (1.8 mm)
	T-078	Contact Tip	5/64" (2.0 mm)
	T-094	Contact Tip	3/32" (2.4 mm)
	T-109	Contact Tip	7/64" (2.8 mm)
	T-125	Contact Tip	1/8" (3.2 mm)
	T-035AL	Contact Tip Aluminum	.035" (0.9 mm)
	T-047AL	Contact Tip Aluminum	3/64" (1.2 mm)
T-062AL	Contact Tip Aluminum	1/16" (1.6 mm)	
<b>TT Series Contact Tips</b>			
B	TT-023	Contact Tip Tapered	.023" (0.6 mm)
	TT-030	Contact Tip Tapered	.030" (0.8 mm)
	TT-035	Contact Tip Tapered	.035" (0.9 mm)
	TT-039	Contact Tip Tapered	.039" (1.0 mm)
	TT-045	Contact Tip Tapered	.045" (1.2 mm)
	TT-052	Contact Tip Tapered	.052" (1.4 mm)
	TT-062	Contact Tip Tapered	1/16" (1.6 mm)

<b>3. DIFFUSERS</b>	
A	DS-1 Diffuser small
B	D-1 Diffuser large

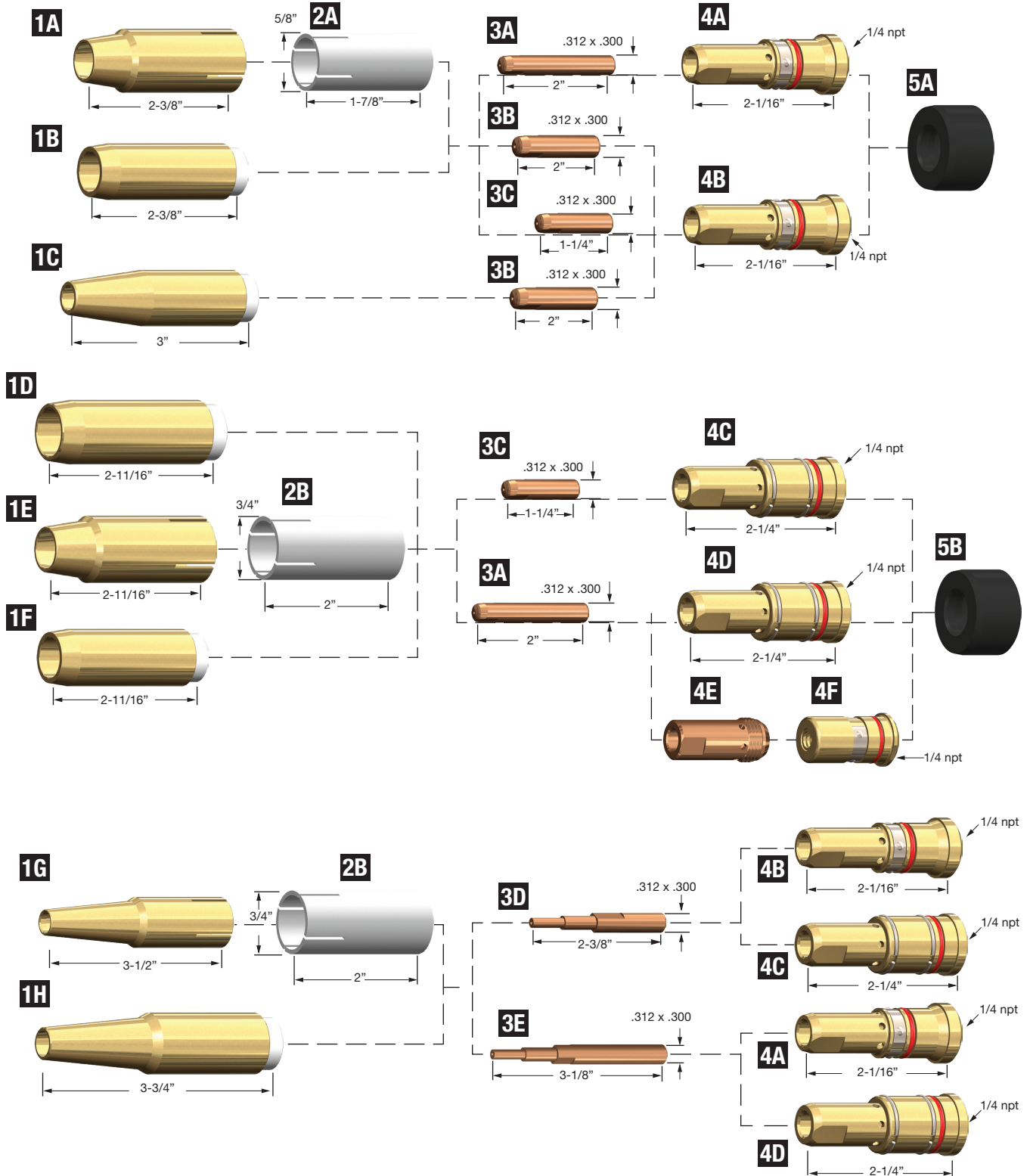
<b>4. INSULATORS</b>	
A	*4523R Insulator small
B	4423R Insulator large

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40 BERNARD® STYLE

COMPATIBLE WITH EZ FEED G / EZ FEED / EZ FEED II / EZ FEED Q†

MIG



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**COMPATIBLE WITH EZ FEED G / EZ FEED / EZ FEED II / EZ FEED Q†**
**1. NOZZLE**

			<b>I.D.</b>	
A	241	Nozzle Brass	5/8"	(15.9mm)
B	4391	Nozzle Brass	5/8"	(15.9mm)
	4392	Nozzle Tapered Brass	1/2"	(12.7mm)
	4393	Nozzle Copper	5/8"	(15.9mm)
C	4295	Nozzle Tapered Brass	3/8"	(9.5mm)
D	4491	Nozzle Brss	3/4"	(19.0mm)
	4492	Nozzle tapered Brass	9/16"	(14.3mm)
	4591-HD	Nozzle Copper HD	3/4"	(19.0mm)
	4592-HD	Nozzle Copper HD	17/32"	(13.5mm)
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)
	1501	Nozzle Copper HD	3/4"	(19.0mm)
F	4591	Nozzle Copper	3/4"	(19.0mm)
	4592	Nozzle Copper	17/32"	(13.5mm)
G	242	Nozzle Tapered Brass	11/32"	(8.7mm)
H	4395A	Nozzle Tapered Brass	11/32"	(8.7mm)
	4394	Nozzle Tapered Copper	1/2"	(12.7mm)

**2. INSULATORS**

A	256	Insulator
B	4061	Insulator

**3. CONTACT TIPS**

				<b>I.D.</b>
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
	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
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	Gas Diffuser 200A
B	4335	Gas Diffuser 200/300A
C	4435	Gas Diffuser 400/500A
D	4635	Gas Diffuser 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 (NOT SHOWN)**

			<b>I.D.</b>	<b>O.D.</b>
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

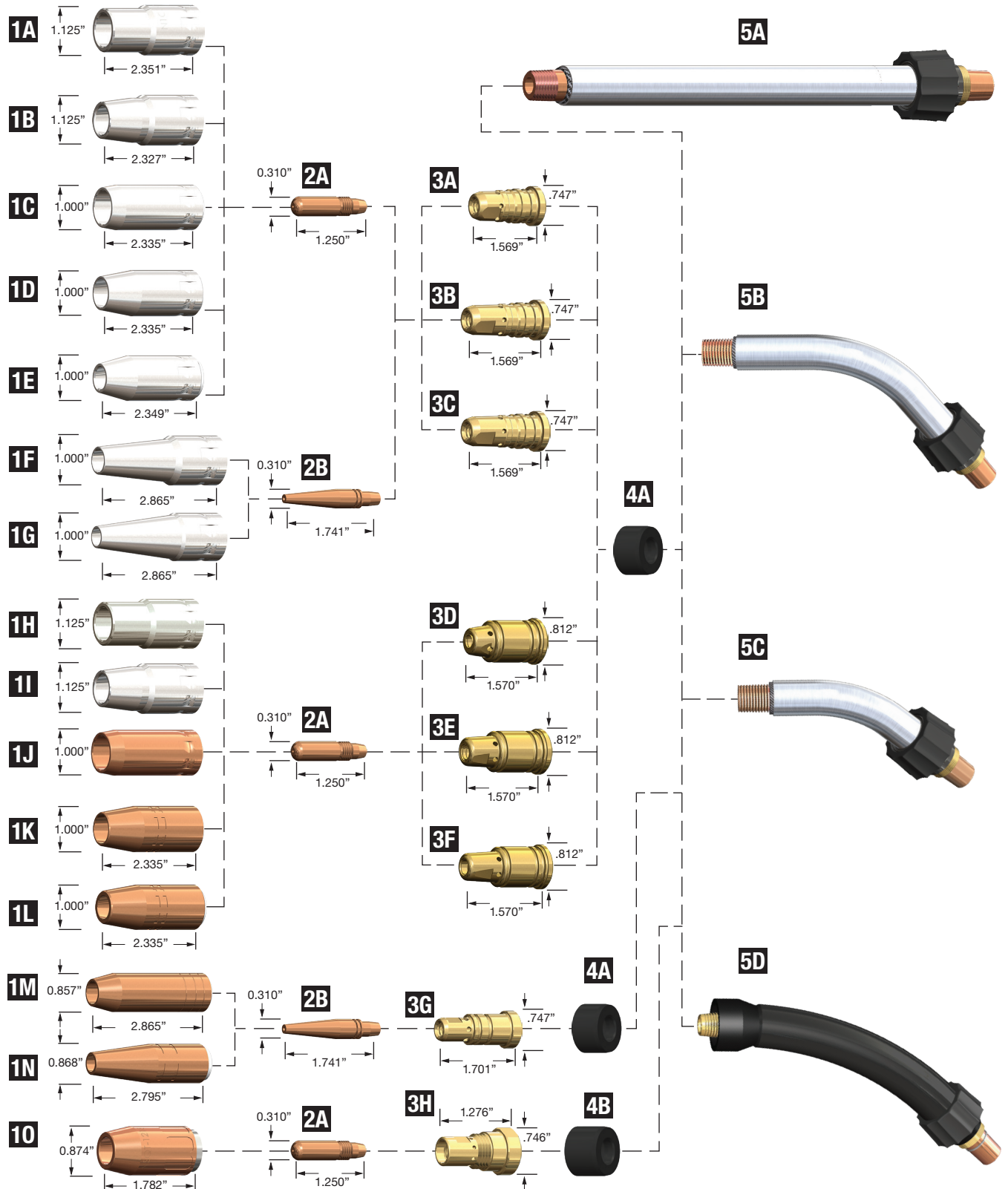
**ALSO AVAILABLE (NOT SHOWN)**

451	Diffuser
4790	Body Tube Assembly
4061ST	Insulator

42 BERNARD® STYLE

COMPATIBLE WITH QUIK TIP™†

MIG



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COMPATIBLE WITH QUIK TIP™†

**1. NOZZLES**

			<b>I.D.</b>	<b>LENGTH</b>
A	N1C34HQ	Nozzle Plated Copper HD	3/4"	2.351"
B	N1C58HQ	Nozzle Plated Copper HD	5/8"	2.327"
C	N1C34Q	Nozzle Plated Copper	3/4"	2.335"
	N1B34Q	Nozzle Brass	3/4"	2.335"
D	N1C58Q	Nozzle Plated Copper	5/8"	2.335"
	N1B58Q	Nozzle Brass	5/8"	2.335"
E	N1C12Q	Nozzle Plated Copper	1/2"	2.349"
F	N2C12HQ	Nozzle Plated Copper	1/2"	2.865"
G	N2C38HQ	Nozzle Plated Copper	3/8"	2.865"
H	N1C34HD	Nozzle Plated Copper HD	3/4"	
I	N1C58HD	Nozzle Plated Copper HD	5/8"	
J	N1C34	Nozzle Copper	3/4"	
K	N1C58	Nozzle Copper	3/4"	2.335"
L	N1C12	Nozzle Copper	1/2"	2.335"
M	N2C12	Nozzle Copper	1/2"	2.865"
N	N2C38	Nozzle Copper	3/4"	2.795"
O	NSQT-1200	Nozzle Copper, Flush	1/2"	
	NSQT-1218	Nozzle Copper 1/8" Recess	1/2"	

**2. CONTACT TIPS**

		<b>I.D.</b>	<b>O.D.</b>
<b>Series 1 Contact Tips</b>			
A	T1023	Contact Tip 0.023" (0.6 mm)	0.312"
	T1030	Contact Tip 0.030" (0.8 mm)	0.312"
	T1035	Contact Tip 0.035" (0.8 mm)	0.312"
	T1039	Contact Tip 0.039" (1.0 mm)	0.312"
	T1045	Contact Tip 0.045" (1.2 mm)	0.312"
	T1364	Contact Tip 3/64" (1.2 mm)	0.312"
	T1052	Contact Tip 0.052" (1.4 mm)	0.312"
	T1116	Contact Tip 1/16" (1.6 mm)	0.312"
	T1068	Contact Tip 0.068" (1.7 mm)	0.312"
	T1072	Contact Tip 0.072" (1.8 mm)	0.312"
	T1564	Contact Tip 5/64" (2.0 mm)	0.312"
	T1332	Contact Tip 3/32" (2.4 mm)	0.312"
	T1764	Contact Tip 7/64" (2.8 mm)	0.312"
	T1118	Contact Tip 1/8" (3.2 mm)	0.312"
<b>Series 2 Contact Tips Taper</b>			
B	T2023	Contact Tip 0.023" Tapered (0.6 mm)	0.312"
	T2030	Contact Tip 0.030" Tapered (0.8 mm)	0.312"
	T2035	Contact Tip 0.035" Tapered (0.9 mm)	0.312"
	T2045	Contact Tip 0.045" Tapered (1.2 mm)	0.312"
	T2364	Contact Tip 3/64" Tapered (1.2 mm)	0.312"
	T2052	Contact Tip 0.052" Tapered (1.4 mm)	0.312"
	T2116	Contact Tip 1/16" Tapered (1.6 mm)	0.312"

Available in packages of 25 contact tips



**3. DIFFUSERS**

A	D114Q	1/4" Recess	Threaded
B	D118Q	1/8" Recess	Threaded
C	D1FQ	1/8" Recess	Threaded
D	D114	1/4" Recess	Slip-On
E	D118	1/8" Recess	Slip-On
F	D1F	Flush	Slip-On
G	D218	1/8" Recess	Slip-On
H	DS-QT	Flush	Threaded

**4. INSULATORS**

A	4423R	Insulator	Rubber
B	4523R	Insulator	Rubber

**5. GOOSENECKS**

A	QT-180-12	Gooseneck	180°	12"
	QT-180-24	Gooseneck	180°	24"
	QT-180-7	Gooseneck	180°	7"
B	QT2-60	Gooseneck	60°	
	QT3-60	Gooseneck	60°	
C	QT2-45	Gooseneck	45°	
	QT2-45-12	Gooseneck	45°	12"
	QT2-45-24	Gooseneck	45°	24"
	QT3-45	Gooseneck	45°	
D	QT-F-8	Flexneck	8"	Flex Neck
	QT-F-6	Flexneck	6"	Flex Neck

**6. LINERS**

	<b>WIRE SIZE</b>	<b>LENGTH</b>
L1A-15	0.023"-0.030"	15'
L1A-25	0.023"-0.030"	25'
L2A-15	0.030"-0.035"	15'
L2A-25	0.030"-0.035"	25'
L3A-15	0.035"-0.045"	15'
L3A-25	0.035"-0.045"	25'
L4A-15	0.045"-1/16"	15'
L4A-25	0.045"-1/16"	25'
L6A-15	5/64"	15'
L6A-25	5/64"	25'
L7A-15	3/32"	15'
L7A-25	3/32"	25'

AVAILABLE - NOT SHOWN

QT5-30 Gooseneck 30°

MIG

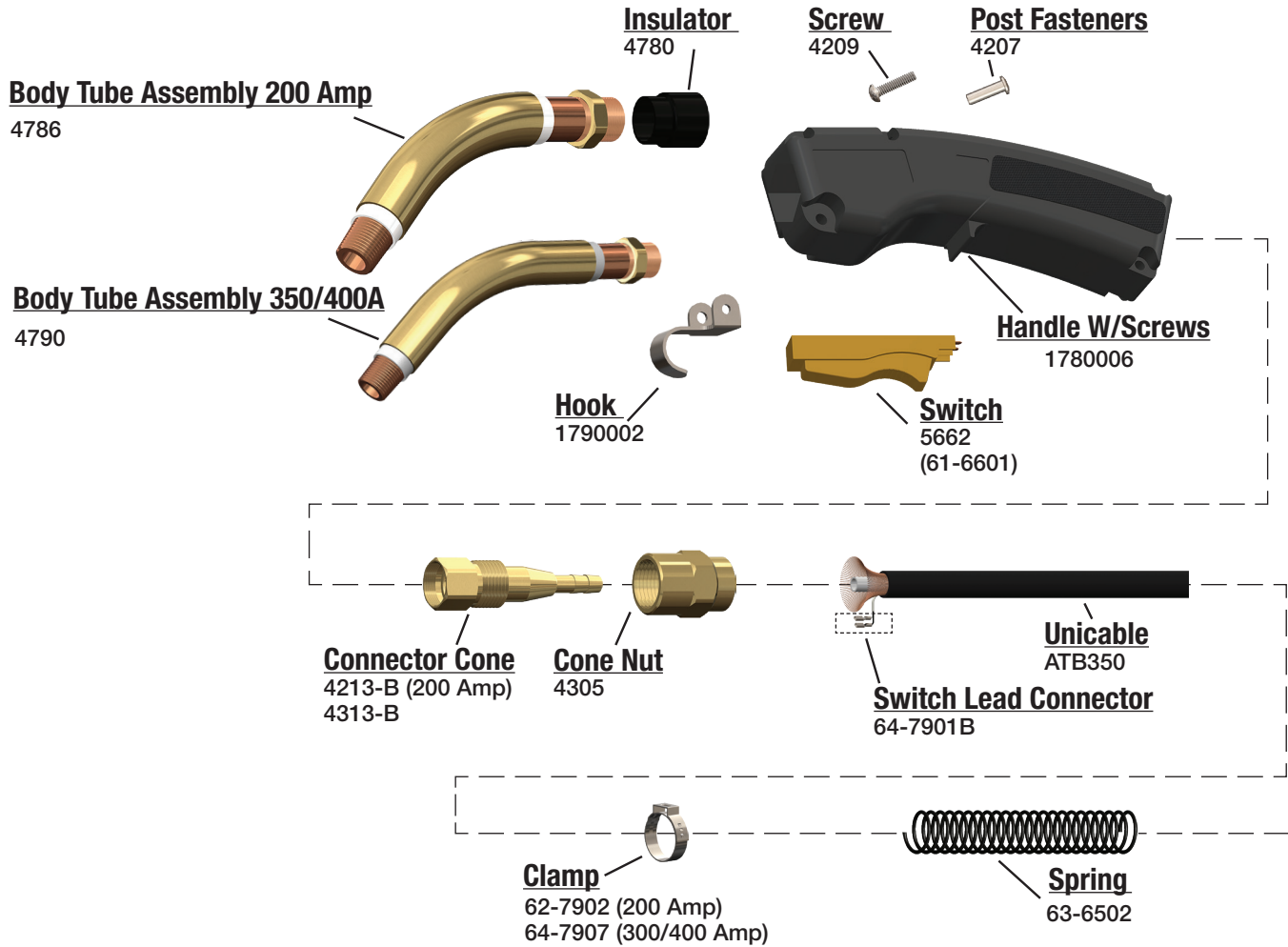
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# 44 BERNARD® STYLE

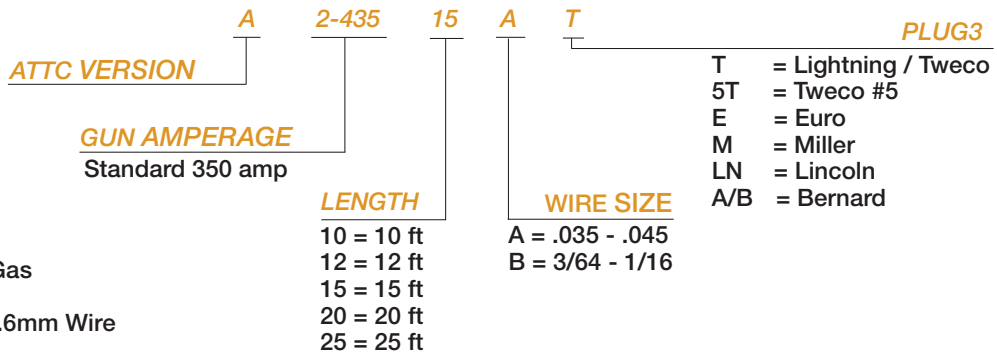
## REPLACEMENT PARTS

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

MIG



### BERNARD GUN ORDERING SYSTEM



**RATING**

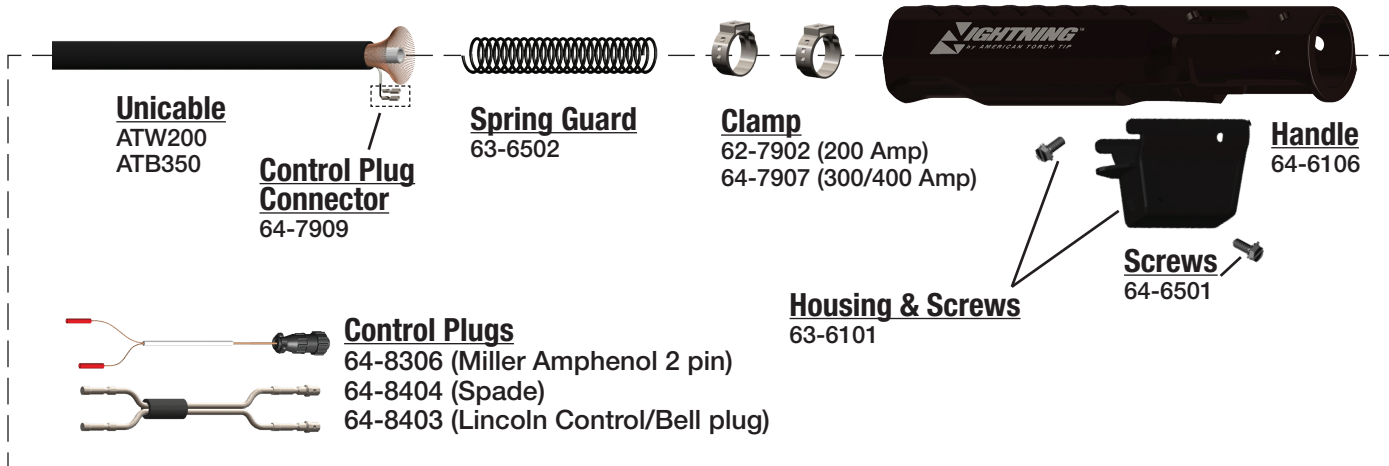
350 A Ci2 250a Mixed Gas  
@ 100% Duty Cycle  
.030" 0.8mm To .062" 1.6mm Wire

**MIG GUNS ARE EQUIPPED AS FOLLOWS:**

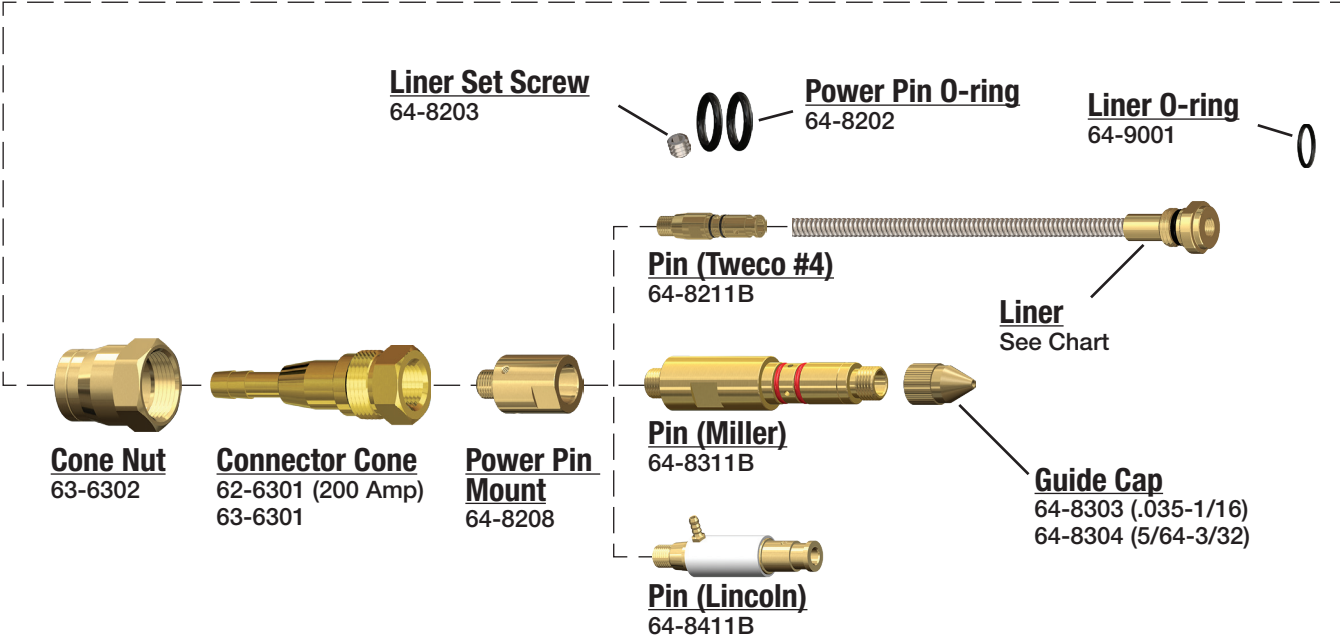
A = .045 (7490) Tip + 4491 (Nozzle)  
B = 1/16 (7491) Tip + 4491 (Nozzle)

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**REPLACEMENT PARTS**  
**COMPATIBLE WITH B-200/350 BERNARD® EZ FEED 11 200/350 AMP†**



**MIG**



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## 46 BERNARD® STYLE

COMPATIBLE WITH B-350 BERNARD EZ FEED 11 350 AMP†

MIG

**Tweco #4**  
64-8201



**Bernard**  
64-8501



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



**Daiden**  
64-8501



**Panasonic**  
64-8702



**Euro**  
64-8100



**Thermal Arc**  
64-8901



**Hitachi**  
64-8422



**Tweco #5**  
64-8204



**Lincoln**  
64-8401B

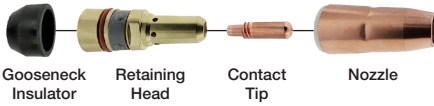


**LIGHTNING® SEMI-AUTOMATIC GUN CONVERSION KITS AVAILABLE FOR & COMPATIBLE WITH BERNARD®, LINCOLN® & TWECO® WITH A SIMPLE CHANGE-OUT OF PARTS†**

**LIGHTNING® RETAINING HEADS**

Part #	Description
65-3103*	Retaining Head for Extra Heavy Duty
63-3103	Retaining Head T/L
63-3103-2	Retaining Head T/L
63-3116	Thread-on Retaining Head HD
63-3402	Retaining Ring
63-3301	O-Ring Orange 016
63-3118-T	Diffuser, Bernard® Threaded

\*This retaining head must be used with #65-11XX contact tip. See Contact Tips Selector Chart on pg. 2



**BENEFITS**

- ✓ Greater surface area contact between tip and head ensures better heat dissipation and conductivity.
- ✓ Tapered tip design creates a more secure seat, eliminating loose tips.
- ✓ Cooler tip temperature reduces wear and extends tip life.
- ✓ Dual-lead thread design allows for 180 degree rotation of tip to new wear point for extended tip life.
- ✓ Brass insert prevents wear and extends life.
- ✓ Superior surface finish minimizes spatter adhesion.
- ✓ Durable hard drawn copper or brass withstands abuse.

**Lightning® Contact Tips Selector Chart**

Part #	Description
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035/.040 I.D. pk 10
63-1138	Contact Tip HD .030 pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068/.078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip
63-12XX	XX = last 2 digits indicate wire size
Part #	CZ Tip (Chromium Zirconium)
63-13XX	XX + last 2 digits indicate wire size
Part #	Extra Heavy Duty Tip
65-11XX*	XX = last 2 digits indicate wire size

\*This contact tip must be used with #65-3103 retaining head. See Lightning Retaining Heads Chart on pg. 1

**BERNARD® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Q-Gun Series	63-6105	63-3118	63-11XX‡	6X-XXXX**
EZ Feed Series	63-6105	63-3118	63-11XX‡	6X-XXXX**
T-Series†	63-6202-HD	63-3103	63-11XX‡	6X-XXXX**
Roughneck C Miller	63-6105	63-3118	63-11XX‡	6X-XXXX**

**LINCOLN® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Magnum 300	63-6105	63-3103	63-11XX‡	6X-XXXX**
Magnum 400	63-6105	63-3103	63-11XX‡	6X-XXXX**
Magnum Pro	63-6105	63-3119	63-11XX‡	6X-XXXX**

**TWECO® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Tweco #3	63-6105	63-3103	63-11XX‡	6X-XXXX**
Tweco #4	63-6105	63-3103	63-11XX‡	6X-XXXX**
SprayMaster 450	63-6105	63-3103	63-11XX‡	6X-XXXX**
WeldSkill 400	63-6105	63-3103	63-11XX‡	6X-XXXX**

Use the Lightning® contact tip system (gooseneck insulator, retaining head, contact tip and nozzle) with Bernard® Lincoln® or Tweco® MIG guns.

Use 63-3118 Retaining Head on goosenecks with external 9/16"-18 thread, such as Q-gun and EZ Feed guns with 1/4" NPT thread.

† T-Series retaining head can only be used on Bernard® T-Series (Tregasskiss®) guns.

‡ 63-11XX (XX = your wire size)

\*\* 6X-XXXX (see Nozzle Selector Chart on next page)

**Lightning® Nozzle Selector Chart (Air-Cooled Slip On)**

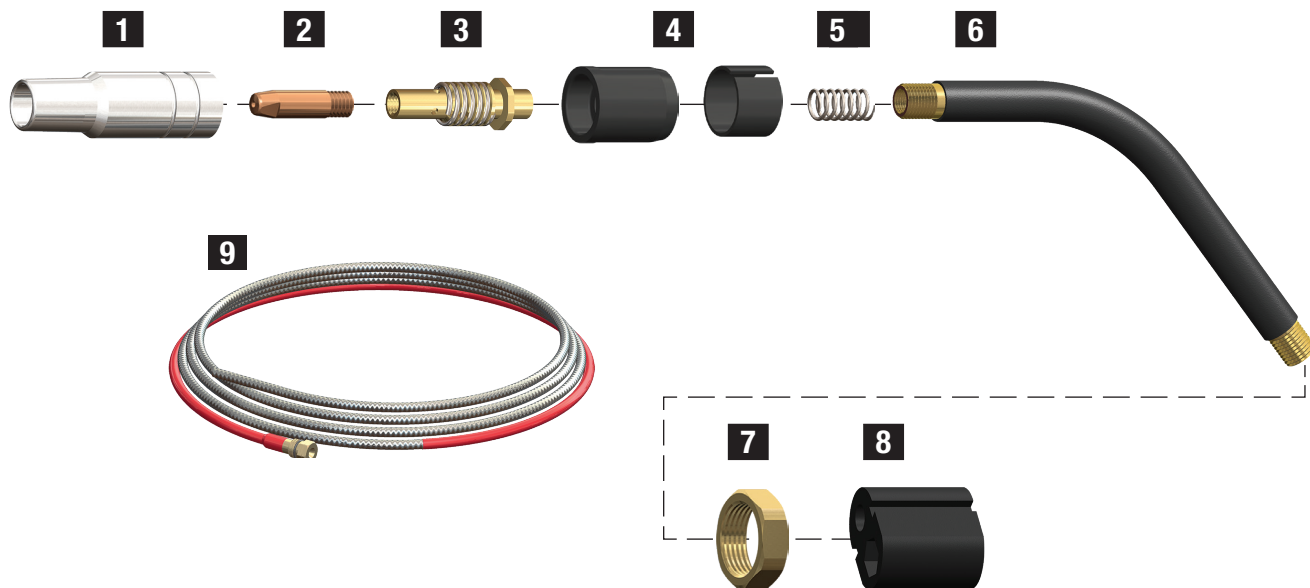
Standard Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
64-2950	1/2" Brass	.938" / 2.63"	1/8" Stickout
63-2950B	1/2" Brass	.938" / 2.88"	1/8" Recess
63-2150	1/2" Copper	.938" / 2.88"	1/8" Stickout
63-2762	5/8" Copper	.938" / 2.51"	1/4" Stickout
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stickout
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
Heavy Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stickout
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stickout
64-2962	5/8" Copper	1.062" / 2.75"	Flush
65-2862	5/8" Brass	1.062" / 2.75"	Flush
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
64-2562	5/8" Copper	1.062" / 3.00"	1/4" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
65-2375	3/4" Brass	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess
64-2387	7/8" Brass	1.062" / 3.00"	1/4" Recess
65-2562-T	5/8" Copper	1.062" / 2.78"	1/8" Recess

MIG

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## 48 BINZEL® STYLE

COMPATIBLE WITH 15 AK 180AMP CO<sub>2</sub> 60% DUTY†  
FOR REPLACEMENT PARTS SEE PAGE 53



MIG

### 1. NOZZLES

		I.D.
A	145-0075 Nozzle, Conical	1/2" (12.7mm)
	145-0123 Nozzle, Conical, Small	3/8" (09.5mm)
B	145-0041 Nozzle, Cylindrical	5/8" (15.9mm)
C	145-0143 Nozzle, Tapered	33/64" (13.1mm)

### 2. CONTACT TIPS

		I.D.	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. HEAD INSULATOR

002-0050

### 5. NOZZLE SPRING

002-0058

### 6. GOOSENECKS

002-0009 Swanneck 50 Degree

### 7. TORCH BODY BRASS

400-0114

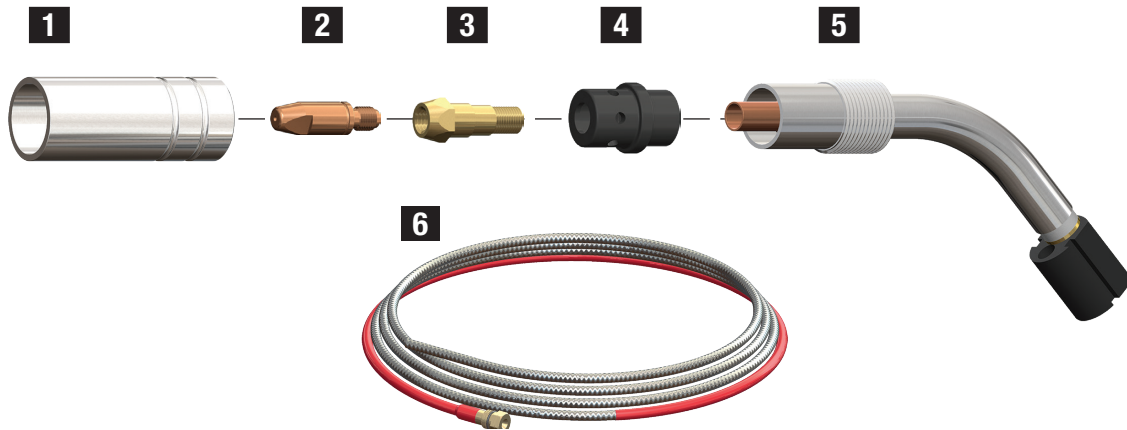
### 8. TORCH BODY PLASTIC

400-0044

### 9. 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

**COMPATIBLE WITH 24 KD 250AMP CO<sub>2</sub> 60% DUTY†**  
**FOR REPLACEMENT PARTS SEE PAGE 53**



**MIG**

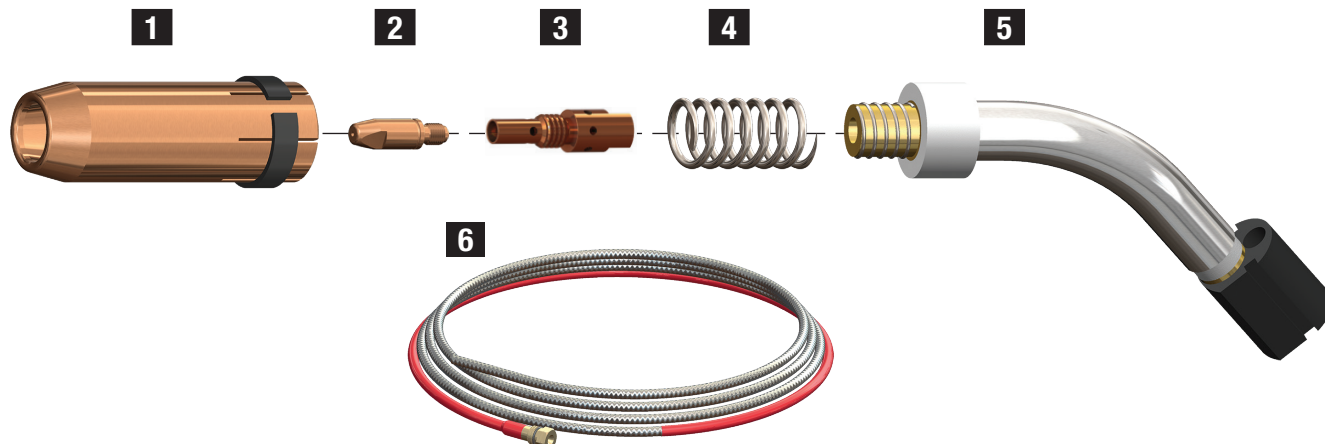
<b>1. GAS NOZZLES</b>				<b>I.D.</b>	
A	145-0047	Nozzle Cylindrical		21/32"	(17mm)
B	145-0080	Nozzle Conical		1/2"	(12.5mm)
C	145-0128	Nozzle Tapered		21/32"	(17mm)
<b>2. CONTACT TIPS</b>				<b>I.D.</b>	
	140-0051	M6 E-Cu	.030 (0.8mm)	.037	
	140-0242	M6 E-Cu	.040 (1.0mm)	.048	
	140-0379	M6 E-Cu	.045 (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	
<b>3. CONTACT TIP HOLDER</b>					
<b>4. GAS DIFFUSER</b>					
	012-0017	Gas Diffuser Black			
	012-0183	Gas Diffuser White			
<b>5. GOOSENECKS</b>					
	012-0001	Swan Neck 50 Degree			
<b>6. LINERS</b>				<b>I.D.</b>	
	124-0011	Liner	3M	.030-.035	.053
	124-0015	Liner	5M	.030-.035	.053
	124-0026	Liner	3M	.040-.045	.071
	124-0031	Liner	4M	.040-.045	.071
	126-0011	Liner	5M	3/64"	.059
	126-0028	Liner	5M	5/64"	.078

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## 50 BINZEL® STYLE

COMPATIBLE WITH 25<sup>†</sup>

FOR REPLACEMENT PARTS SEE PAGE 53



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)

### 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

### 3. CONTACT TIP HOLDERS

142-0001

### 4. NOZZLE SPRING

003-0013

### 5. GOOSENECKS

004-0012 Swanneck 50°

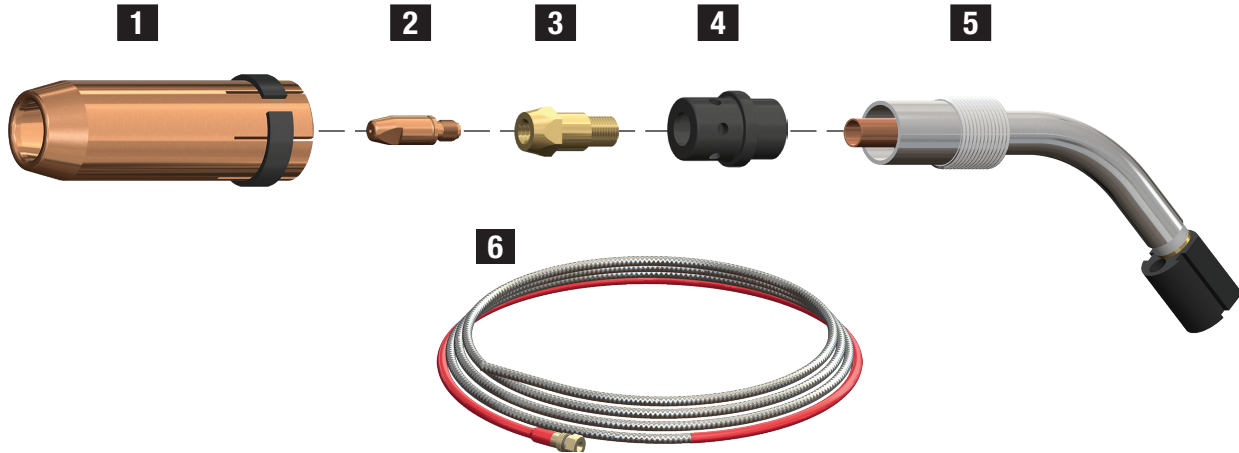
### 6. LINERS

		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



COMPATIBLE WITH 26†

FOR REPLACEMENT PARTS SEE PAGE 53



**MIG**

**1. GAS NOZZLES**

		<i>I.D.</i>
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>I.D.</i>
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-Cu	3/64"	(1.2mm)	.059 AL

**3. CONTACT TIP HOLDERS**

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. GOOSENECKS**

018-0001	Swan Neck 50°
----------	---------------

**6. LINERS**

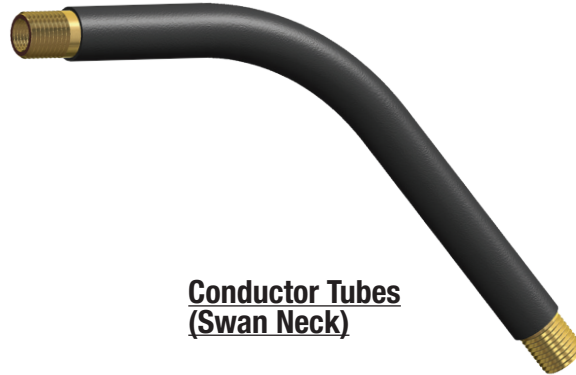
			<i>I.D.</i>	<i>O.D.</i>
124-0011	Liner 10'	.024-.035	.053	.156
124-0015	Liner 15'	.024-.035 steel	.053	.156
124-0026	Liner 10'	.035-.045	.071	.156
124-9003	Liner 15'	.035-.045 steel	.071	.156
124-0041	Liner 10'	.045-1/16"	.095	.156
124-0042	Liner 15'	.045-1/16"	.095	.156
124-9004	Liner 15'	.052-1/16"	.095	.156
126-0005	Liner, Teflon™ 10' 3/64"		.059	.156

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## 52 BINZEL® STYLE

REPLACEMENT PARTS FOR & COMPATIBLE WITH ALL BINZEL®†

MIG



**Conductor Tubes  
(Swan Neck)**

### 1. SWAN NECK

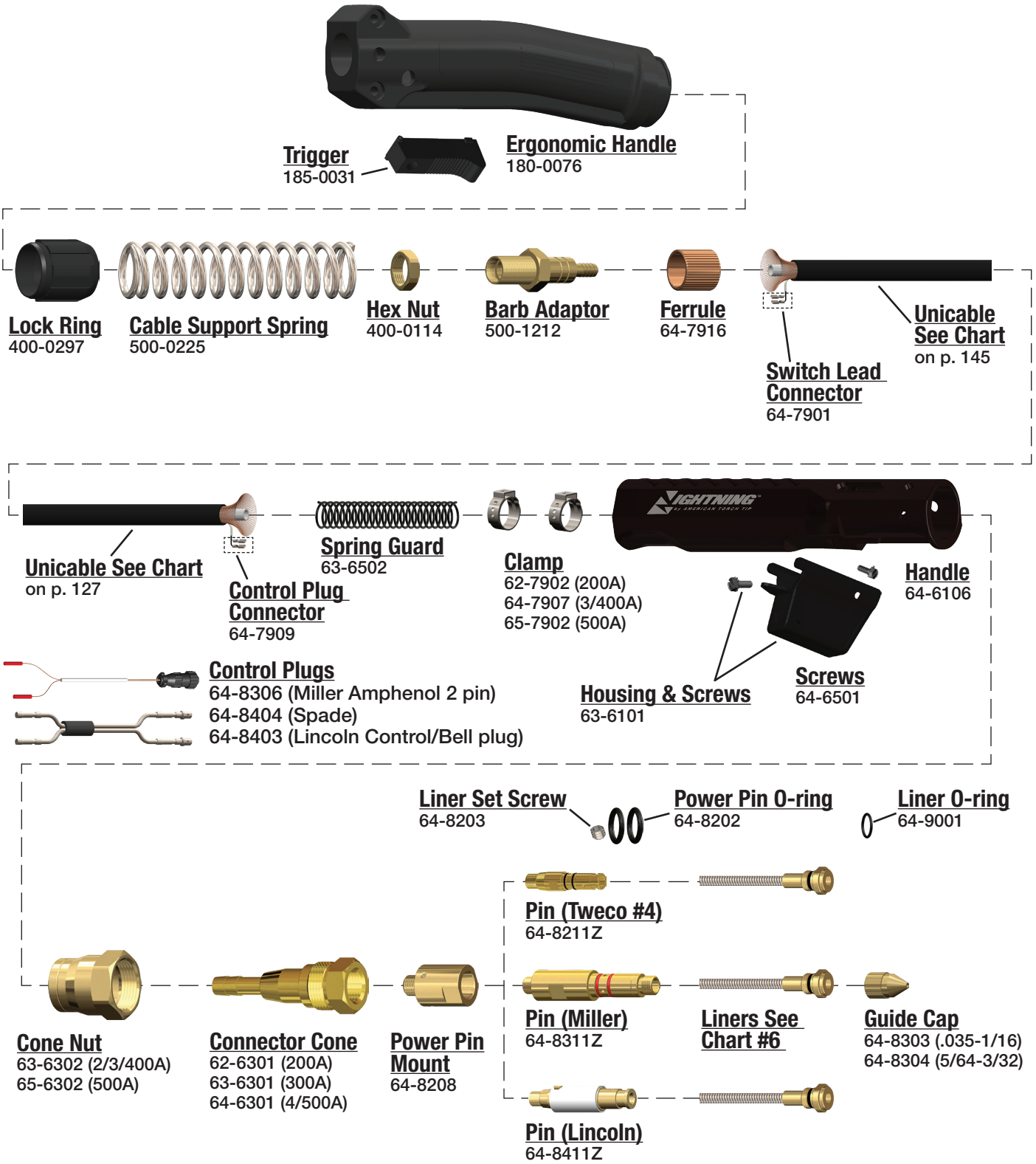
MB-15	002-0009
MB-24	012-0001
MB-25	004-0012
MB-26	018-0116
MB-36	014-0006

### 2. LINERS

			<i>I.D.</i>	<i>O.D.</i>
124-0015	15'	.023-.035	.053	.156
124-9003	15'	.025-.045	.071	.156
124-9004	17'	.052-1/16"	.095	.156
124-0041	10'	.045-1/16"	.095	.156

**REPLACEMENT PARTS FOR & COMPATIBLE WITH ALL BINZEL®†**

**MIG**

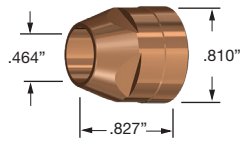


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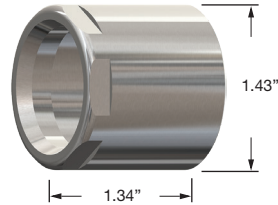
# 54 CLOOS® STYLE

COMPATIBLE WITH MISCELLANEOUS CLOOS® STYLE PARTS†

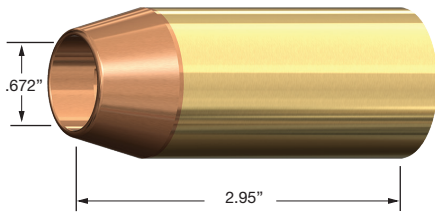
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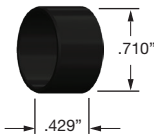
**Union Nut**  
743000006



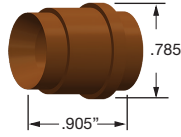
**Nut**  
754000004



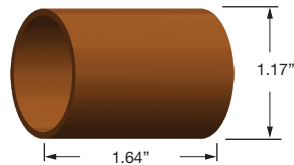
**Nozzle**  
063056100



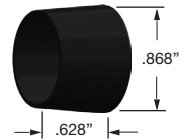
**Insulator**  
790220105



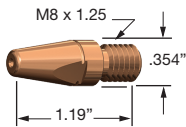
**Insulator**  
790220103



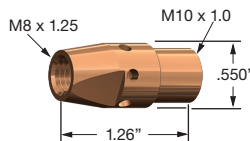
**Insulator**  
754000007



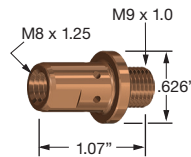
**Insulator**  
743000015



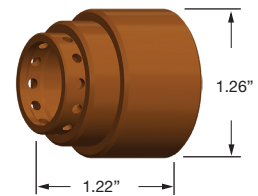
**Contact Tip**  
062123112



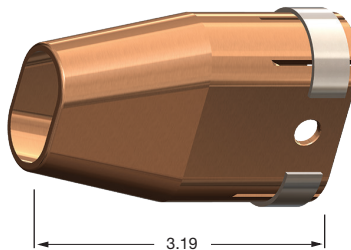
**Diffuser**  
753000002



**Diffuser**  
709000004



**Diffuser Gas**  
754000005

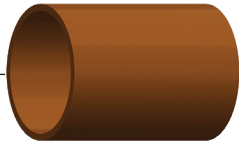


**Nozzle**  
753000600

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COMPATIBLE WITH MR W 500-31 ROBOT WELDING TORCH†

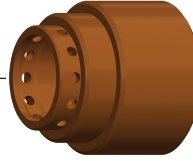
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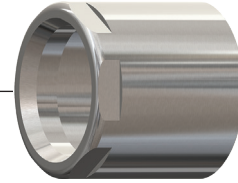
**Insulator**  
754000007



**O-Ring**  
110156178



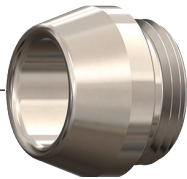
**Diffuser Gas**  
754000005



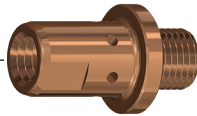
**Nut**  
754000004



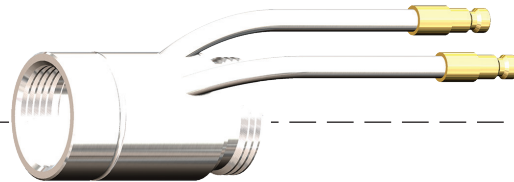
**1.2 Tip**  
062120004  
062120003 1.0



**Shroud**  
709000005



**Tip Holder**  
709000004



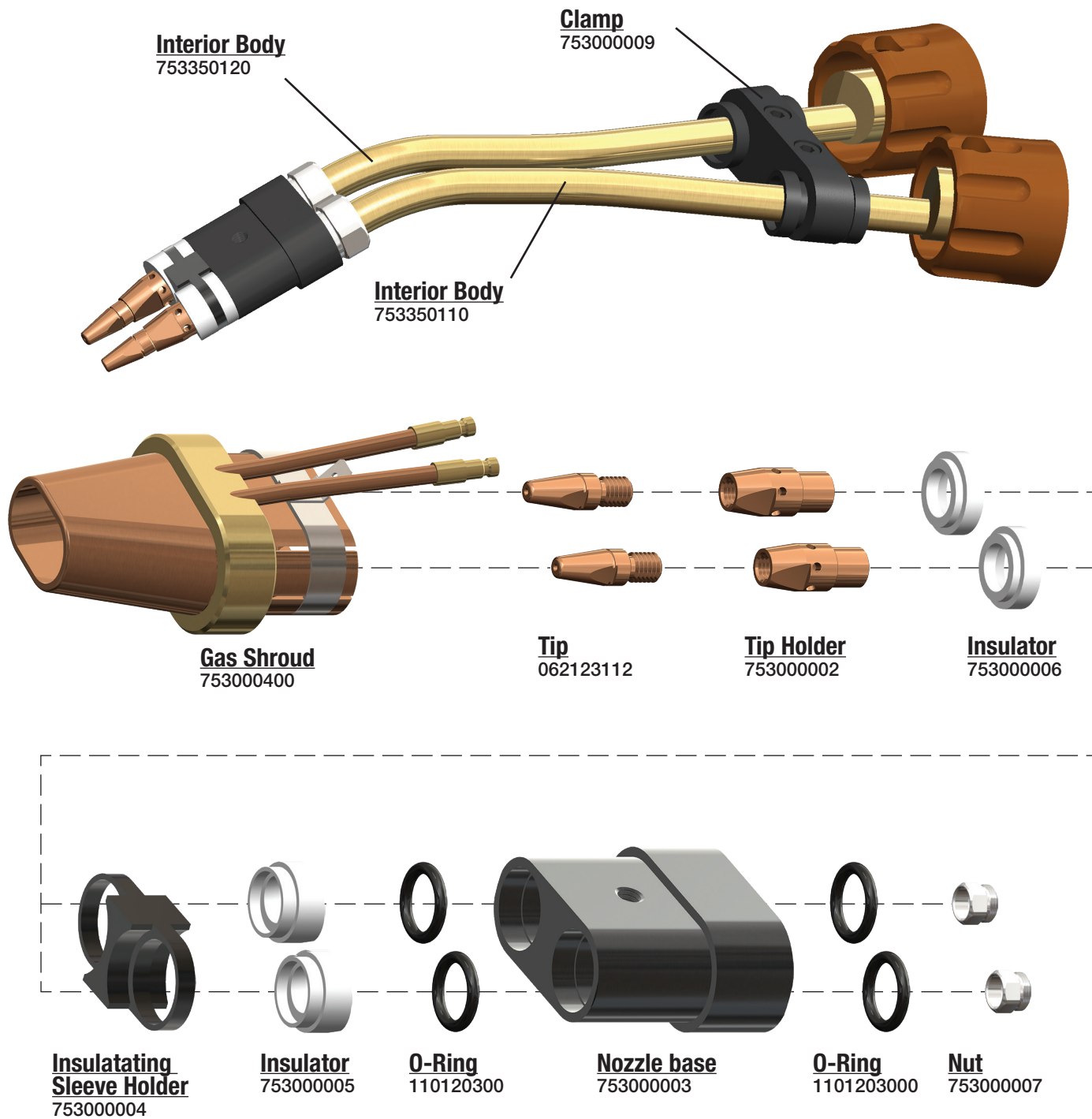
**Water Jacket**  
709000400

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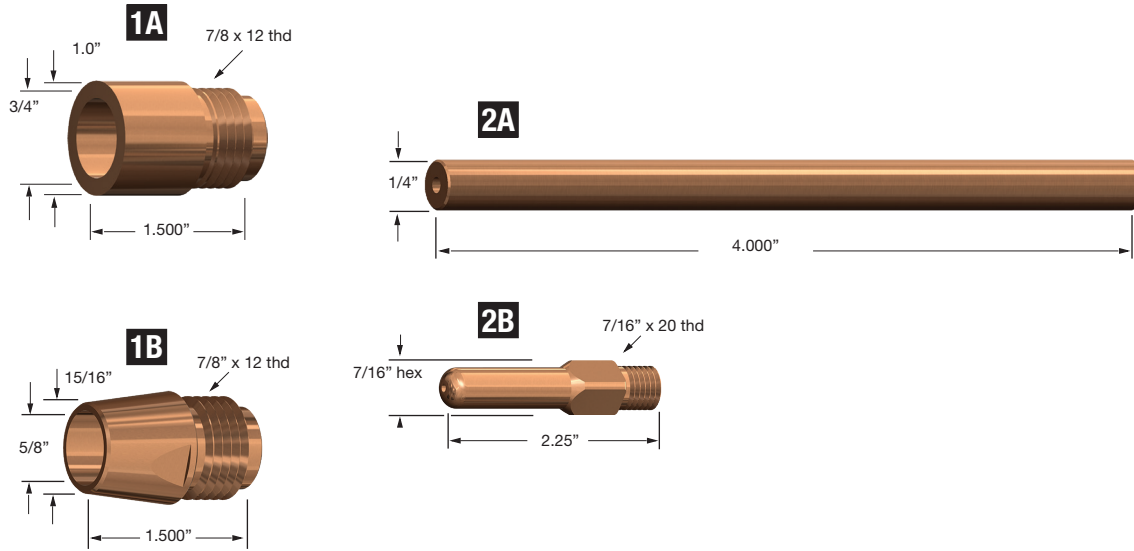
56 CLOOS® STYLE

COMPATIBLE WITH ZMW 600 / 610†

MIG



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**MIG**

**1. NOZZLE**

		<i>I.D.</i>
A	10340 Nozzle Straight	3/4" (19.0mm)
B	10359 Nozzle Tapered	5/8" (15.9mm)

**2. CONTACT TIPS**

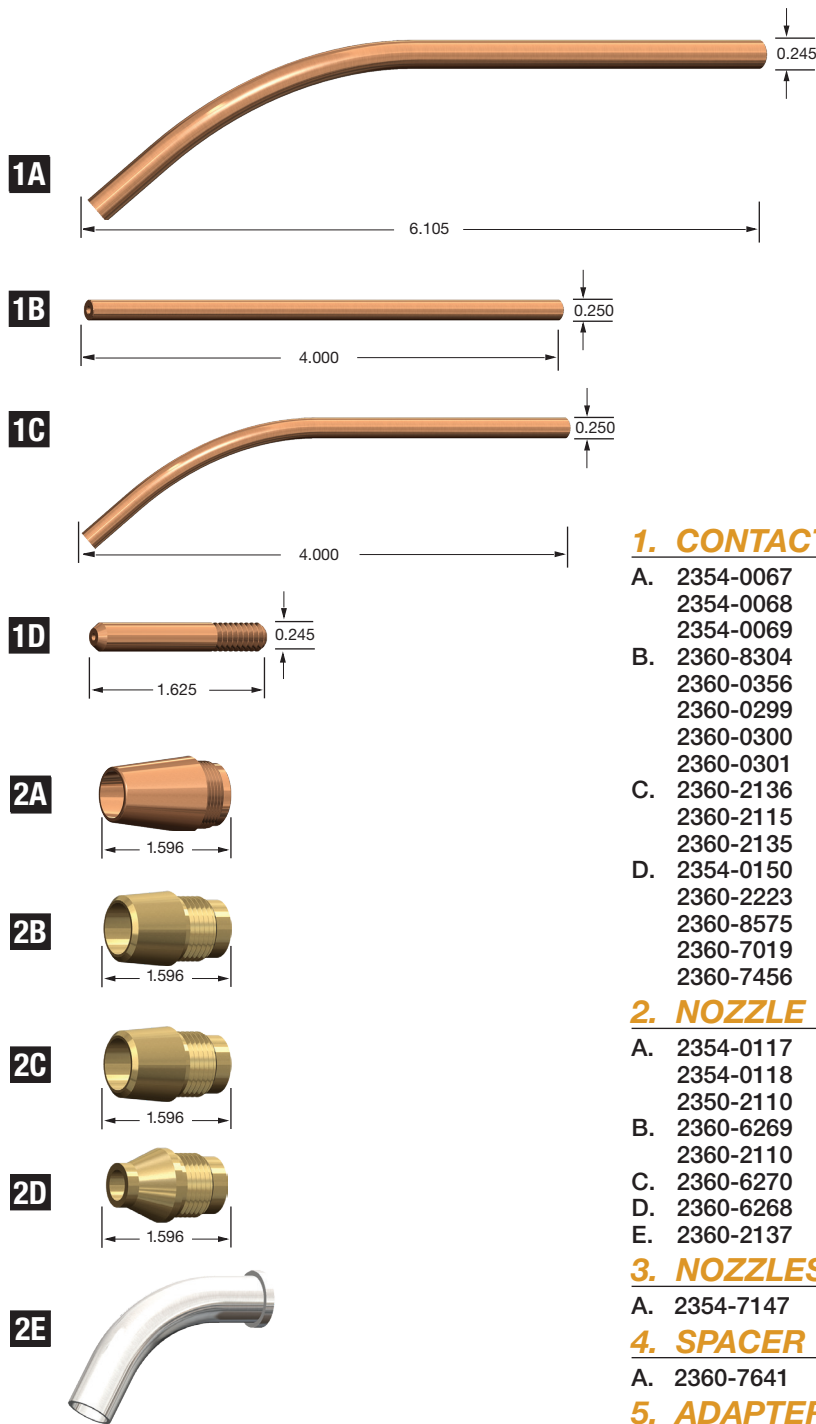
			<i>I.D.</i>
A	10782 Contact Tip	1/16" Al (1.6mm)	.081
B	15121 Contact Tip	.052 H (1.4mm)	.063
	15120 Contact Tip	3/32" H (2.4mm)	.110
	15111 Contact Tip	1/8"	

† American Torch Tip Company (ATTC) is a proud US manufacturer of more than 80 years producing products for 6 major cutting and welding technologies. ATTC is in no way affiliated with the above-named original equipment manufacturer(s). References to the above-named manufacturers, tradenames and part numbers are for your convenience only. Most parts advertised for sale are made by or for American Torch Tip and other parts as indicated are original parts manufactured by above-named, original equipment manufacturer (OEM) and are simply being re-sold by American Torch Tip. Footnotes: \* = OEM; # = American Torch Tip is licensed to make and sell this part by named manufacturer; ATTC and ATT suffix = This part is an original American Torch Tip design and is not manufactured identical to the OEM design; ® indicates a registered trademark, trade name, or product name of the above-named company. PHD™, PHDX™, Lightning®, Waltec™, Integra™, Lasertec® Laser Division of American Torch Tip®, Multi-Use™ and ProMix™ are trademarks owned by American Torch Tip Company. © Copyright 2024, American Torch Tip Company

58 ESAB® STYLE

COMPATIBLE WITH AIRCO®†

MIG



**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

**2. NOZZLE**

**I.D.**

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**

A.	2360-7640	Adapter Sleeve (Not Shown)
----	-----------	----------------------------

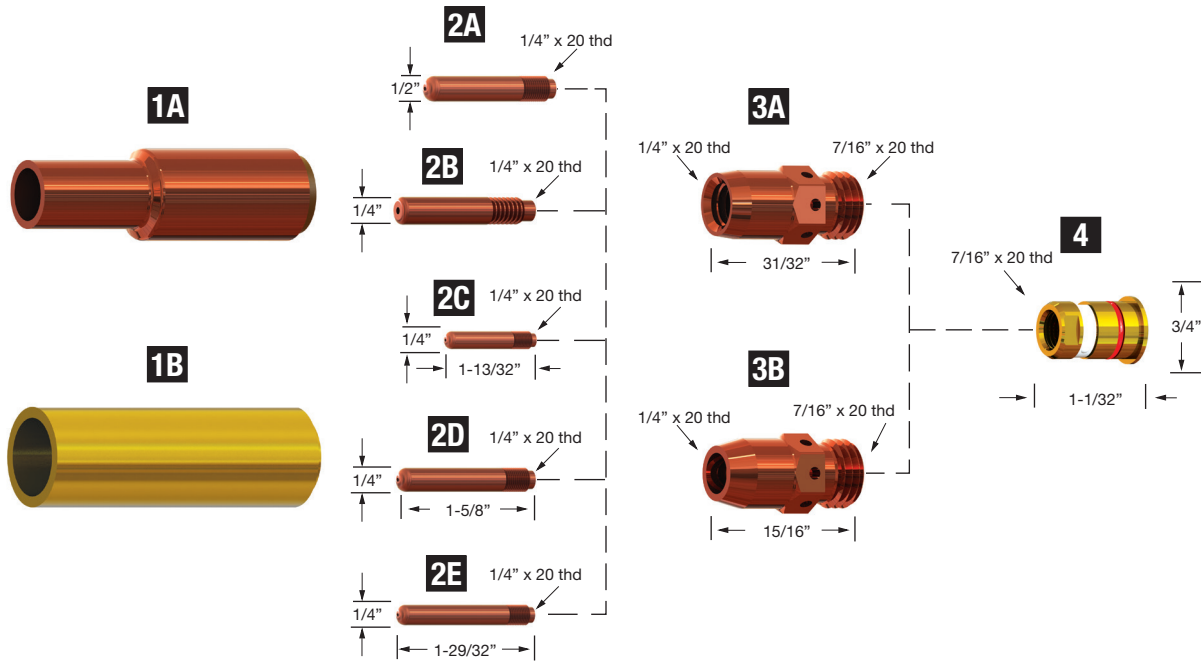
**6. BARREL**

A.	2360-2108	Barrel Outer (Not Shown)
----	-----------	--------------------------

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COMPATIBLE WITH MT-200 / MT-200CC / MT-400 / MT-400CC / MT-500†



**MIG**

**1. NOZZLES**

			<b>I.D.</b>
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)

**2. CONTACT TIPS**

				<b>I.D.</b>
A	948332	Tip H.D. Short	5/64" (2.0mm)	.093
B	17765	Tip H.D. Med.	.045-3/64 (1.2mm)	.055
	17778-067	Tip H.D. Med.	1/16" (1.5mm)	.067
	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

**3. TIP ADAPTERS**

A	17984	Adapter for H.D. Tips
B	17983	Adapter for Std. Tips

**4. NOZZLE ADAPTERS**

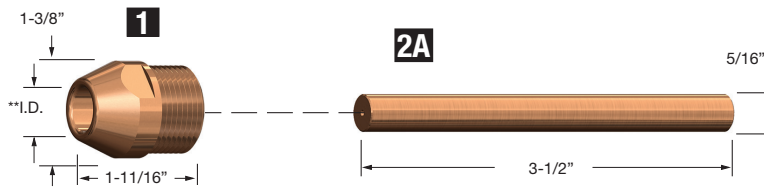
	999452	Adapter for Slip-On Nozzles
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			<b>I.D.</b>	<b>O.D.</b>
A	999743	Liner 10'	.023	.039 .120
B	948850	Liner 10'	.030	.060 .185
	2075237	Liner 10'	.035-.045	.070 .185
	2075239	Liner 10'	.052-1/16"	.094 .185
	2075245	Liner 10'	5/64"	.140 .200
	17717	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

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**60 ESAB® STYLE**

COMPATIBLE WITH 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)

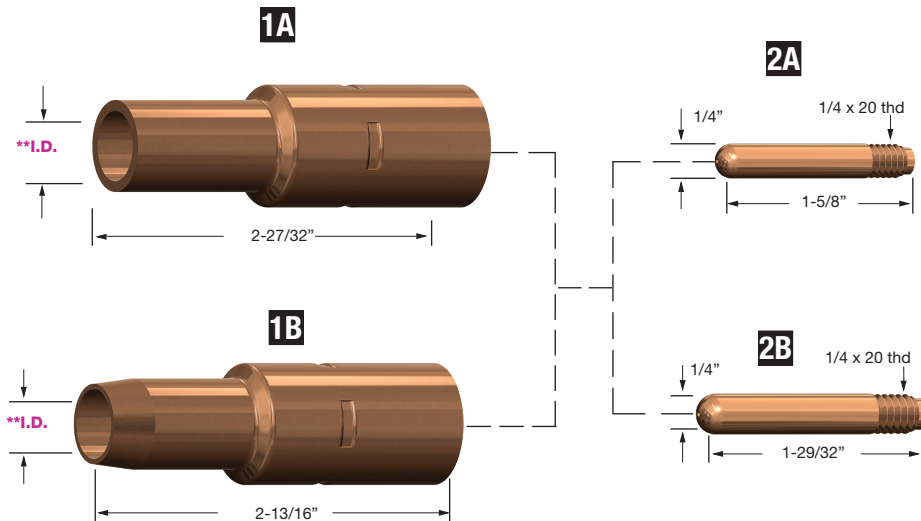
**2. CONTACT TIPS**

**I.D.**

A	61N36	Contact Tip	.035 (0.9mm)	H/C	.043
	61N37	Contact Tip	.045 (1.2mm)	H/C	.055
	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

MIG

COMPATIBLE WITH ST-23A / MIG-41A†



**MIG**

**1. NOZZLES**

			<b>I.D.</b>	
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**

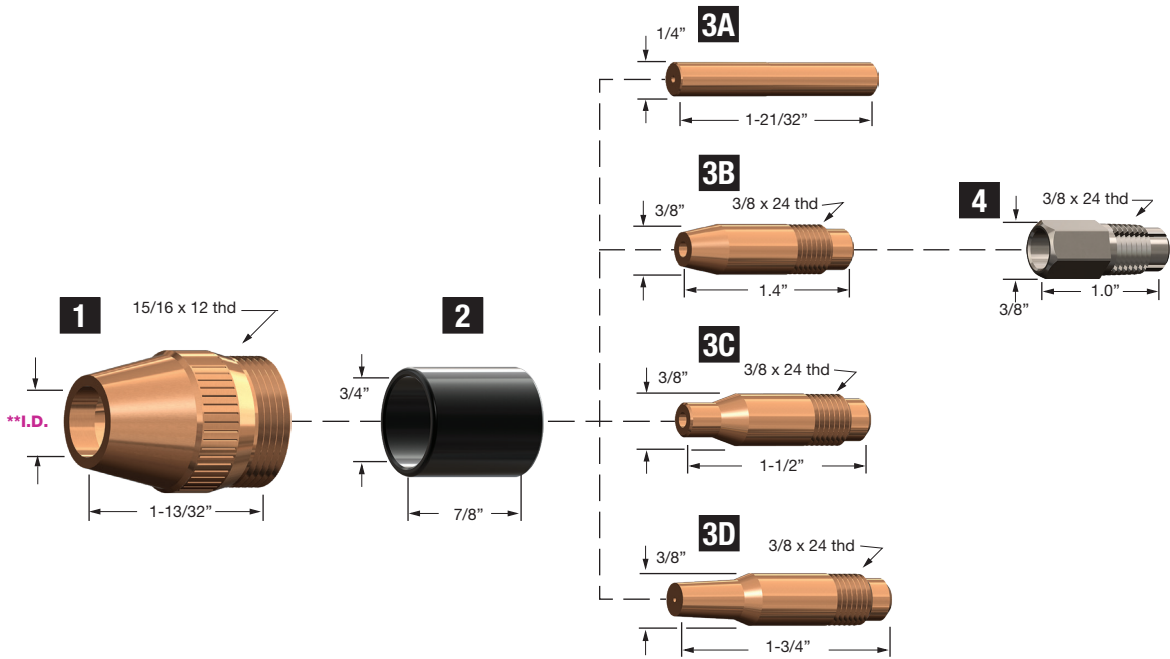
			<b>I.D.</b>
A	20543	Tip Med .023	(0.6mm) .028
	20544	Tip Med .030	(0.8mm) .037
	996995	Tip Med .035	(0.9mm) .043
	996999	Tip Short .045-3/64"	(1.2mm) .055
	2075349	Tip Med .052	(1.3mm) .063
	996997	Tip Short 1/16"	(1.6mm) .073
B	999742	Tip Long .023	(0.6mm) .028
	996994	Tip Long .030	(0.8mm) .037
	996996	Tip Long .035	(0.9mm) .043
	996998	Tip Long .045-3/64"	(1.2mm) .055

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62 ESAB® STYLE

COMPATIBLE WITH MIG-41 / MT-450W ST-16 / ST-21†

MIG



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

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
--------	----------------------

3. CONTACT TIPS I.D.

				I.D.
A	996103	Tube	.030 (0.8mm)	.037
	996104	Tube	.035 (0.9mm)	.043
	996105	Tube	.045-3/64" (1.2mm)	.059
	196105-1.56	Tube		
	996106	Tube	1/16" (1.6mm)	.073
	996106-1.44	Tube		
	996106-1.56	Tube		
B	633611-5/64	Tip Short	5/64" (2.0mm)	.093
C	632793	Tip Short	.035 (0.9mm)	.043
	632795	Tip Short	.045-3/64" (1.2mm)	.059
	632797	Tip Short	1/16" (1.6mm)	.073
	632799	Tip Short	5/64" (2.0mm)	.093
	632800	Tip Short	3/32" (2.4mm)	.110
D	632792	Tip Long	.030 (0.8mm)	.037
	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)

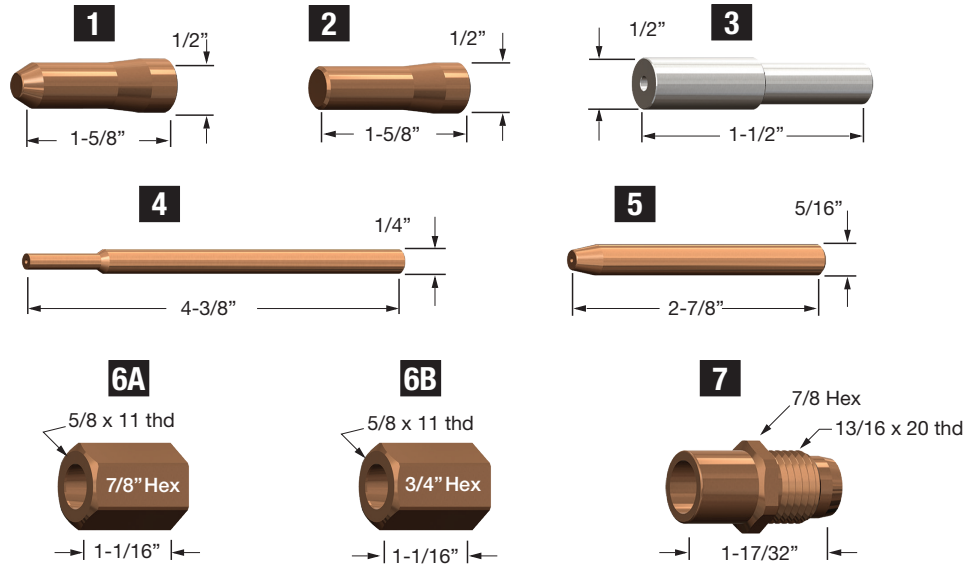
633455	Conduit 10'	.030-.035
633456	Conduit 10'	.045-1/16"

LINERS (USED ON MT-450W)

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

\*Liners and Conduits are not shown.

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**MIG**

<b>1. CONTACT TIP</b>			<b>I.D.</b>
409649	Contact Tip	.045 (1.2mm)	.055
568612	Contact Tip	1/16" (1.6mm)	.073
<b>2. CONTACT TIP</b>			<b>I.D.</b>
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
19N48	Contact Tip	1/8" (3.2mm)	.136
19N49	Contact Tip	5/32" (4.0mm)	.166
19N50	Contact Tip	3/16" (4.8mm)	.199
19N47-TC	Tip C145	3/32" (2.4mm)	.101
19N48-M	Tip C145	1/8" (3.2mm)	.136
<b>3. CONTACT TIP</b>			<b>I.D.</b>
20N76	Contact Tip	1/8" (3.2mm)	.136
<b>4. CONTACT TUBE</b>			<b>I.D.</b>
49N10	Contact Tube	.035 (0.9mm)	.043
49N11	Contact Tube	.045 (1.2mm)	.055
49N09	Contact Tube	1/16" (1.6mm)	.081
<b>5. CONTACT TUBE</b>			<b>I.D.</b>
633504	Contact Tube	.035 (.09mm)	.043
<b>6. TIP NUT</b>			
A. 999398	Tip Nut Subarc Large		
B. 19N43	Tip Nut Subarc Small		
<b>7. NOZZLE</b>			
105Z20	Nozzle #10	5/8" (15.9mm)	

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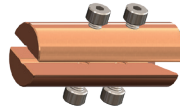
# 64 ESAB® STYLE

COMPATIBLE WITH A6 WEAR PARTS - SAW CONTACT JAWS FOR HEAVY DUTY SYSTEM†

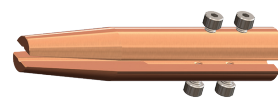
**1A**

Part available  
but not shown

**1B**



**2**



## 1. SAW CONTACT JAWS FOR SINGLE WIRE, LENGTH 65/58 MM

	PART NO.	WIRE DIM
A	0332 581 880	2.0 mm
	0332 581 881	2.4-2.5 mm
B	0265 900 880	3.0 mm
	0265 900 881	3.2 mm
	0265 900 882	4.0 mm
	0265 900 883	5.0 mm
	0265 900 884	6.0 mm

## 2. LENGTH 120 MM

0000 237 320	3.0 mm
0000 237 321	4.0 mm

MIG

**COMPATIBLE WITH A6 WEAR PARTS - SAW CONTACT JAWS FOR HEAVY DUTY SYSTEM†**

**1**

Part available  
but not shown

**2**

Part available  
but not shown

**3**



**MIG**

**1. SAW CONTACT JAWS FOR TWIN WIRE, LENGTH 73 MM**

<i>PART NO.</i>	<i>WIRE DIM</i>
0265 902 882	2x1.6 mm
0265 902 881	2x2.0 mm
0265 902 884	2x2.4-2.5 mm
0265 902 880	2x2.5-3.0 mm

**2. LENGTH 73 MM WITH GUIDE TUBE CONNECTION**

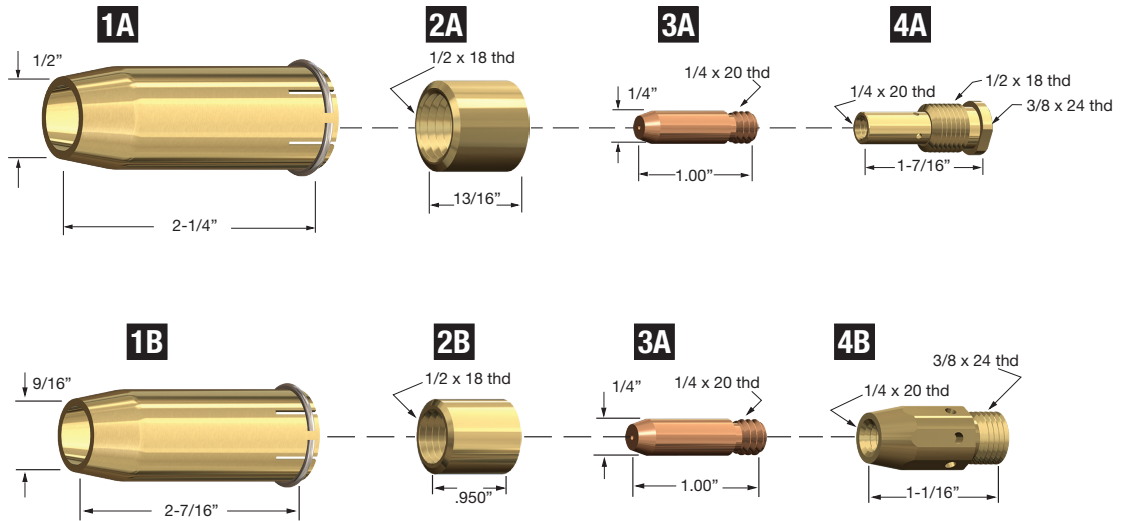
0808 650 882	2x1.6 mm
0808 650 881	2x2.0 mm
0808 650 880	2x2 5 3 0 mm

**3. LENGTH 120 MM WITH GUIDE TUBE CONNECTION**

0816 019 882	2x1.6 mm
0816 019 881	2x2.0 mm
0816 019 883	2x2.4-2.5 mm
0816 019 880	2x2.5-3.0 mm

66 HOBART® STYLE

COMPATIBLE WITH PIECEMAKER 25-A GAL-300 PIECEMAKER 14-A†



MIG

1. NOZZLES

			I.D.
A	379718	Nozzle Slip-On	1/2" (12.7mm)
B	379300	Nozzle Slip-On or .030"	9/16" (14.3mm)

2. INSULATORS

A	379708	Nozzle ????	
B	379301	Nozzle Insulator	

3. CONTACT TIPS

					I.D.
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
B	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	177107	Gas Diffuser		
B	379595	Tip Adapter	.024	
	379596	Tip Adapter	.030	
	379433	Tip Adapter	.035-.045	

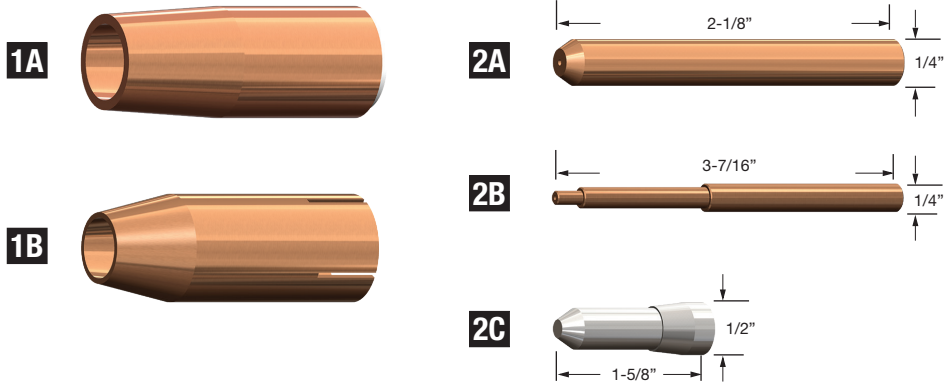
LINERS (NOT SHOWN) I.D. O.D.

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

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COMPATIBLE WITH PIECEMAKER GA-250, GA-400, GA-600†



**MIG**

**1. NOZZLES**

A	379925	HD nozzle 3/4
B	379981	Nozzle 598 act 450/wc 500

**2. CONTACT TIPS**

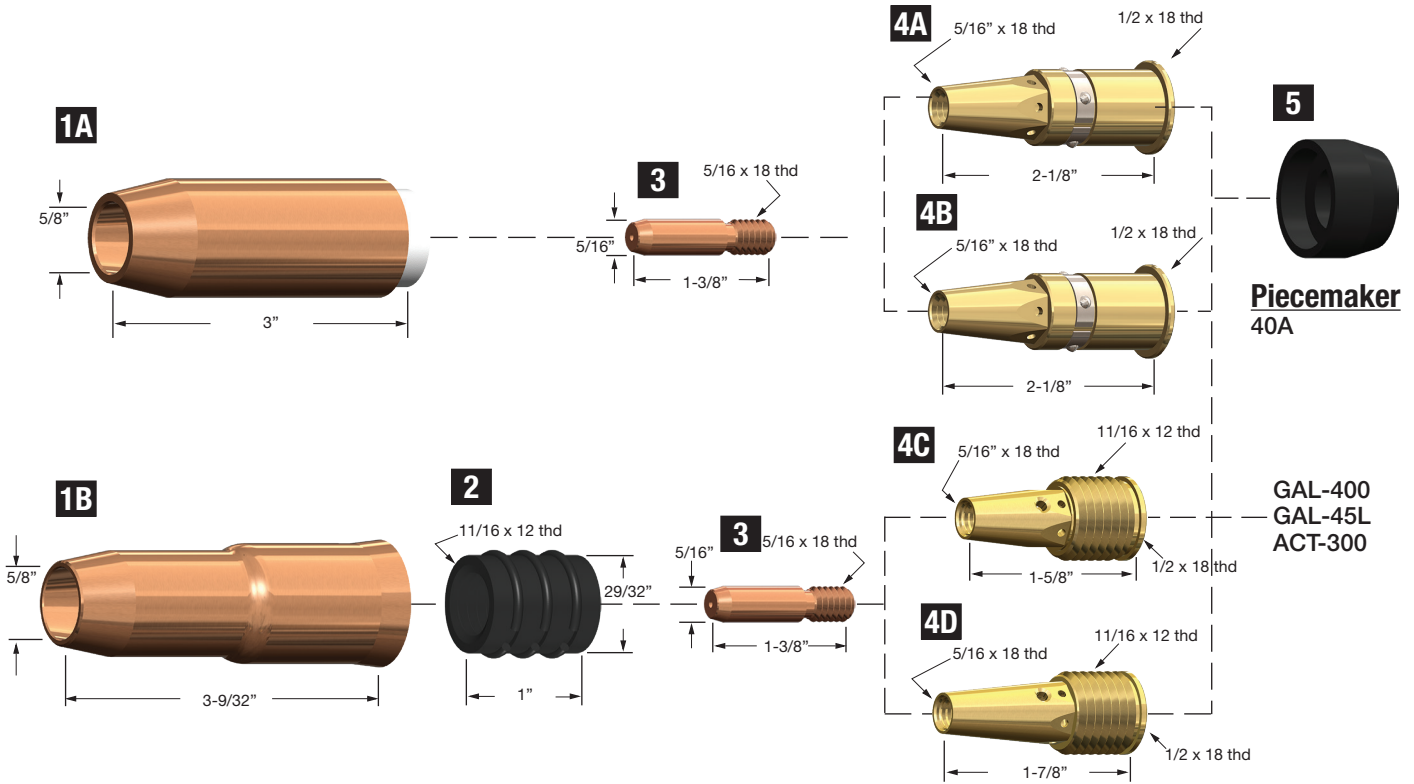
			<i>I.D.</i>
A	377460	Contact Tip	.030 .035
	377461	Contact Tip	.035 .040
	377463	Contact Tip	.045 .052
	377465	Contact Tip	.045 .062
B	377467	Contact Tip	.035 .040
	377468	Contact Tip	.035 .044
	377469	Contact Tip	.045 .062
C	377476	Contact Tip	.045 .052
	377478	Contact Tip	1/16 .070
	377480	Contact Tip	1/16 .081
	377482	Contact Tip	3/32 .109
	377500	Contact Tip	5/32 .166

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68 HOBART® STYLE

COMPATIBLE WITH PIECEMAKER 40-A / GAL-400 - GAL-45L / ACT-300†

MIG



1. NOZZLES

		I.D.
A	177134 Nozzle Slip-On	5/8" (15.9mm)
B	177042 Nozzle Threaded	3/8" (09.5mm)
C	379645 Nozzle Slip-On	5/8" (15.9mm)

2. NOZZLE ADAPTERS

379353	Nozzle Adapter
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3. CONTACT TIPS

					I.D.
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
377298	Contact Tip	1/16"	(1.6mm)	H/T	.081
379396	Contact	5/64"	(2.0mm)	T	.093

4. GAS DIFFUSERS

A	177135	Gas Diffuser	
B	177304	Gas Diffuser	
C	379594	Gas Diffuser	.035-.045 Wire
	379438	Gas Diffuser	.052-5/64" Wire
D	379615	Gas Diffuser	3/32" Wire

5. NOZZLE INSULATORS

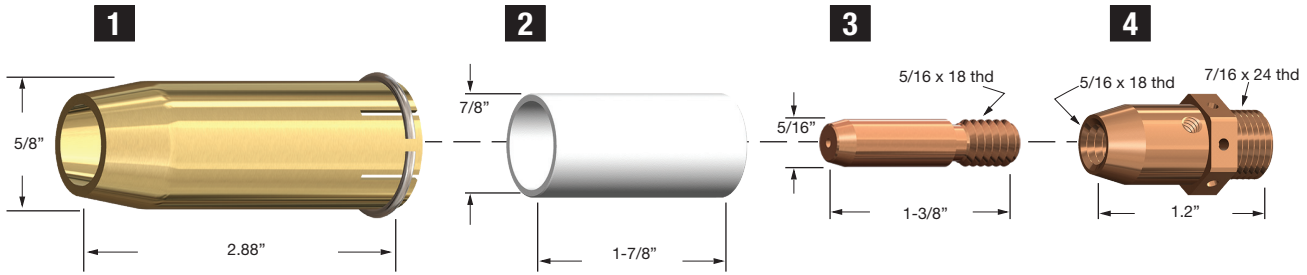
177136	Nozzle Insulator (40-A)
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LINERS (NOT SHOWN)

						I.D.	O.D.
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	.2

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**COMPATIBLE WITH PIECEMAKER 50-W†**



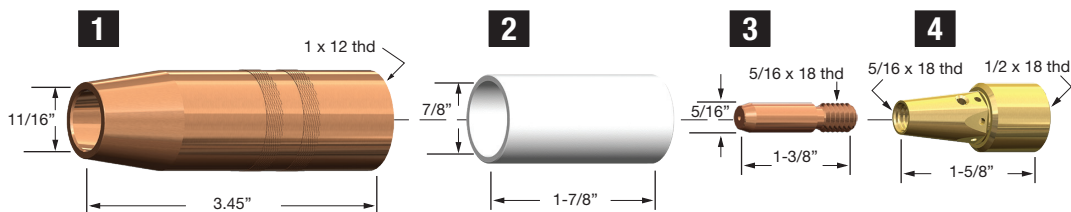
**MIG**

<b>1. NOZZLES</b>		<b>I.D.</b>	
177166	Nozzle Slip-On	5/8" (15.9mm)	
<b>2. INSULATORS</b>			
377885-1	Nozzle Insulator		
<b>3. CONTACT TIPS</b>		<b>I.D.</b>	
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
<b>4. DIFFUSERS</b>			
379987	Gas Diffuser	.035-.045	
379988	Gas Diffuser	.052-5/64"	

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## 70 HOBART® STYLE

COMPATIBLE WITH GAL-500†



### 1. NOZZLES

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

### 2. INSULATORS

377775-1	Nozzle Insulator		
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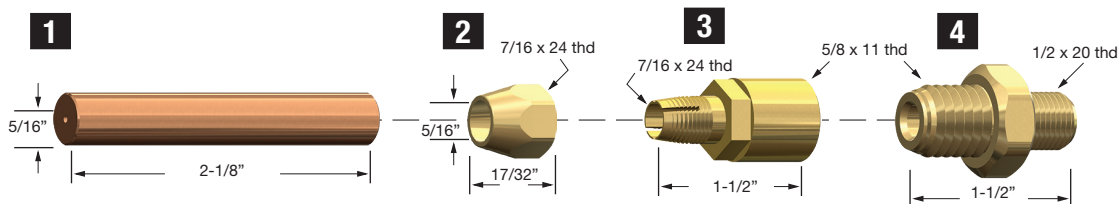
### 3. CONTACT TIP

					I.D.
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
379397	Contact Tip	3/32"			.136

### 4. DIFFUSERS

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

COMPATIBLE WITH SAT-600†



### 1. CONTACT TIPS

					I.D.
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

### 2. NUTS

378320	Locking Tip Nut		
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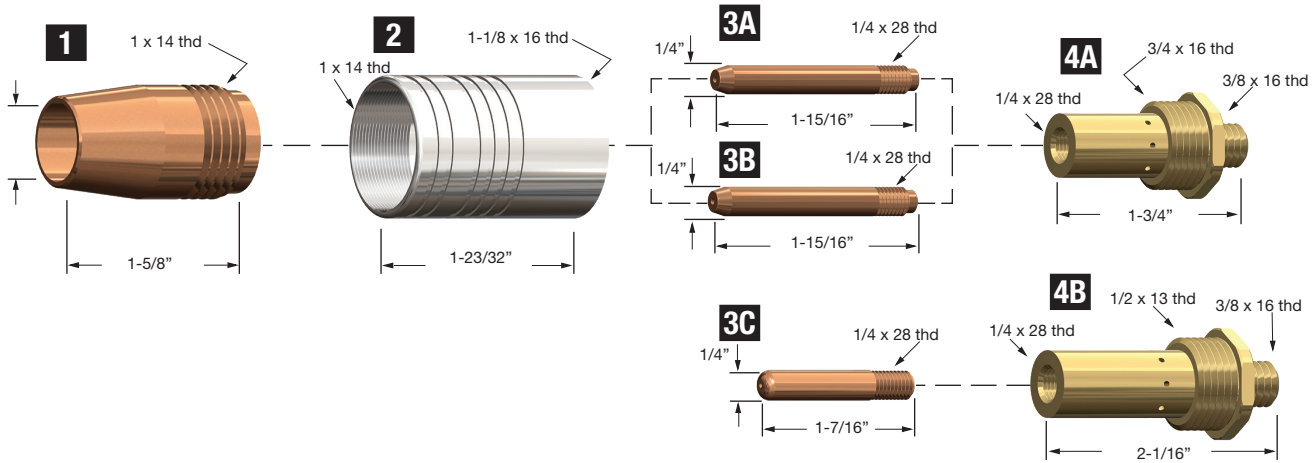
### 3. GAS DIFFUSERS

378653	Gas Diffuser		
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### 4. TIP ADAPTERS

16DA629	Contact Tip Adapter		
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COMPATIBLE WITH AG-2000 \ SP-2000†



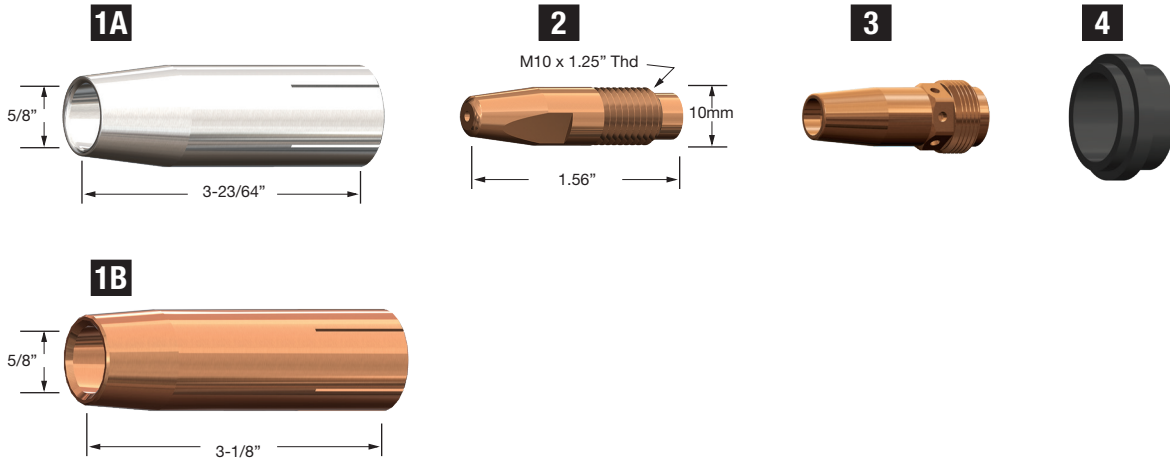
**MIG**

1. NOZZLES			I.D.	
407741	Nozzle Threaded		5/8"	(15.9mm)
407742	Nozzle Threaded		3/4"	(19.1mm)
2. NOZZLE BODIES				
407842-1	Nozzle Body			
3. CONTACT TIPS			I.D.	
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	407731	Contact Tip Long	.035 (0.8mm)	.043
C	407839-4	Contact Tip	.035 (0.8mm)	.043
	407839-7	Contact Tip	.045 (1.2mm)	.055
4. GAS DIFFUSERS				
A	407733	Gas Diffuser Standard		
B	407846-2	Gas Diffuser for Adjustable Nozzles		

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72 IGM®/FRONIUS® STYLE

MIG



**1. NOZZLES**

**I.D.**

A	42.0001.5129	Nozzle	5/8
B	42.0001.5155	Nozzle	5/8
	42.0001.5130	Nozzle	
	42.0001.5128	Nozzle	
	42.0001.5576	Nozzle	

**2. CONTACT TIPS**

**WIRE**

42.0001.1576	Contact Tip	.035 (.08mm)
42.0001.3277	Contact Tip	(0.9mm)
42.0001.1577	Contact Tip	.045 (1.0mm)
42.0001.1578	Contact Tip	.052 (1.2mm)
42.0001.1930	Contact Tip	.063 (1.4mm)

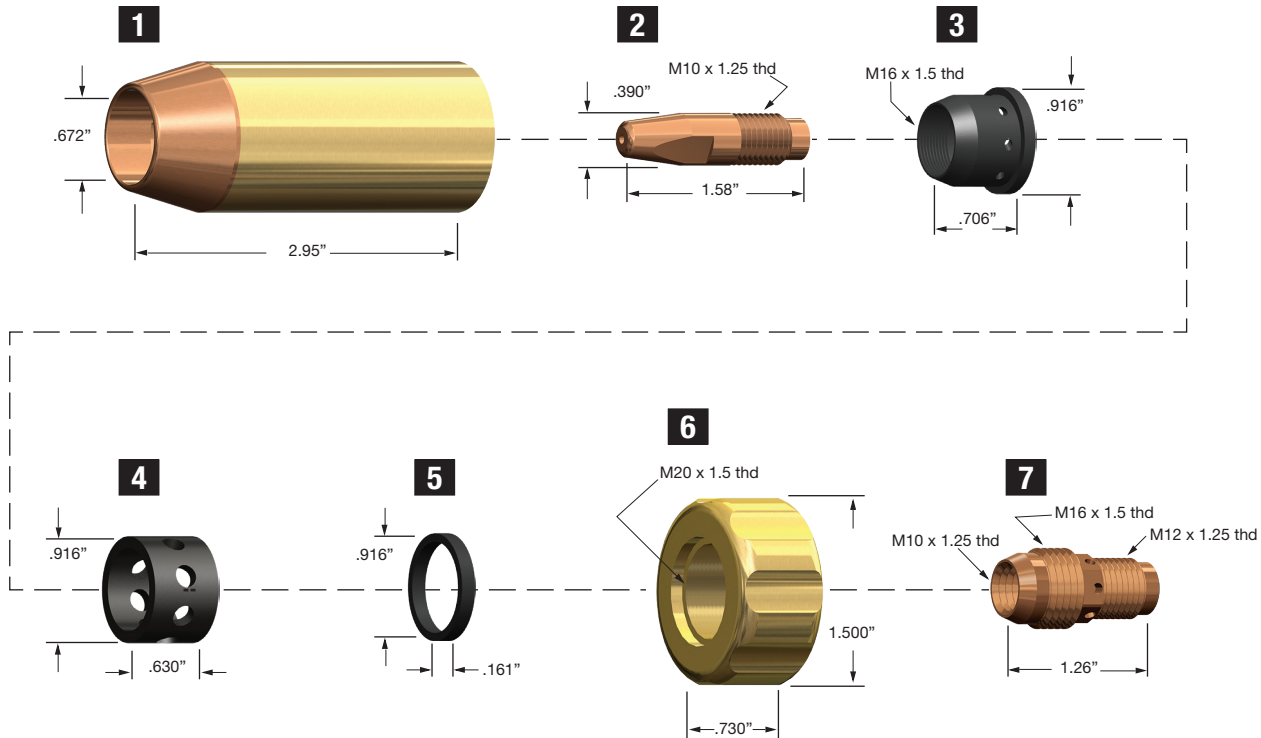
**3. GAS DIFFUSER**

42.0001.5122	Gas Diffuser
42.0001.5382	Gas Diffuser
42.0001.1007	Gas Diffuser

**4. INSULATOR RING**

42.0100.1016
42.0100.1018

COMPATIBLE WITH IGM SB395†



**MIG**

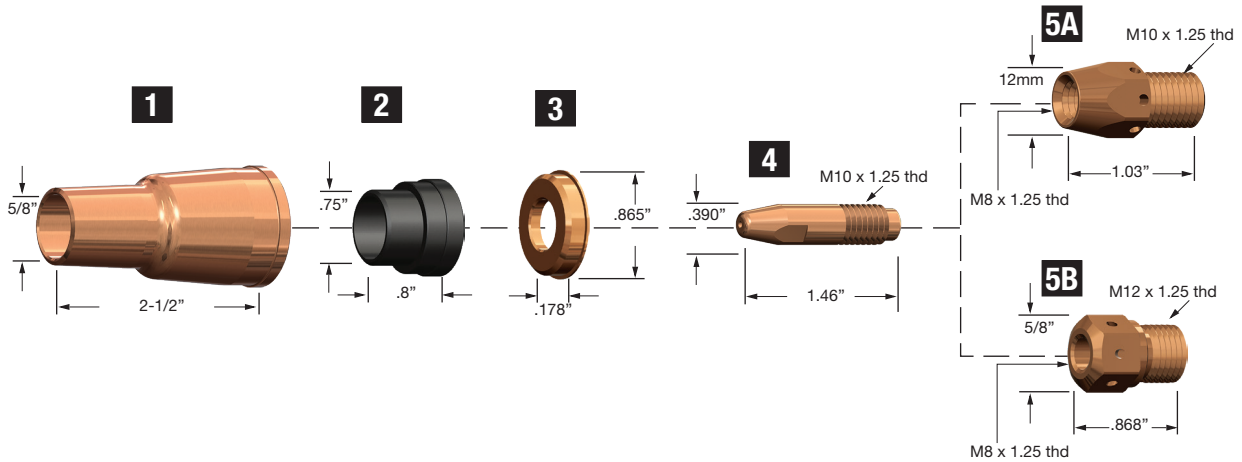
<b>1. NOZZLES</b>		<b>I.D.</b>
663056100	Nozzle Water Cooled	.672 (17.1mm)
<b>2. CONTACT TIPS</b>		<b>I.D.</b>
604156-1.0	Contact Tip	(1.0mm)
60A167	Contact Tip	(1.2mm) .052
60A156	Contact Tip	(1.4mm) .063
60A168-1.6	Contact Tip	(1.6mm) .070
60A168-1.2AL	Contact Tip	(1.2mm) .063
60A168-1.65	Contact Tip 35mm Long	(1.6mm) .070
<b>3. COUNTER NUTS</b>		
60A134	Counter Nut/Diffuser M16 x 1.5	
<b>4. WATER DISTRIBUTION RINGS</b>		
60A064	Water Distribution Ring	
<b>5. GUIDE RINGS</b>		
60A068	Guide Ring	
<b>6. CLAMPING NUTS</b>		
60A066	Clamping Nut	
<b>7. TIP ADAPTERS</b>		
60A578	Tip Adapter M16 x 1.5	

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# 74 IGM®/FRONIUS® STYLE

COMPATIBLE WITH IGM SB399 & OTHER AVAILABLE IGM PARTS†

MIG

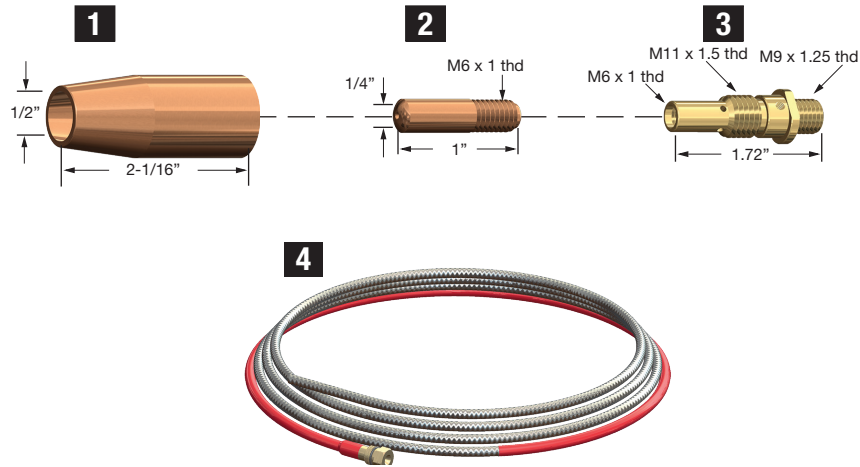


<b>1. NOZZLES</b>		<b>I.D.</b>
31A266	Nozzle	5/8" (15.9mm)
<b>2. NOZZLE INSULATION</b>		
31A248	Nozzle Insulation	
<b>3. GUIDE RINGS</b>		
60A593	Guide Ring	
<b>4. CONTACT TIPS</b>		<b>I.D.</b>
42.0001.3653	Contact Tip	.9mm
42.0001.5051	Contact Tip	1.0mm
42.0001.5052	Contact Tip	1.5mm
42.0001.5053	Contact Tip	1.4mm
42.0001.5060	Contact Tip	1.6mm
<b>5. TIP ADAPTERS/DIFFUSERS</b>		
A	60A582	Tip Adapter/Diffuser
B	60A534	Tip Adapter/Diffuser

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COMPATIBLE WITH MAGNUM 100L†



**MIG**

**1. NOZZLES**

**I.D.**

M16294	Nozzle, Fixed	1/2" (12.7mm)
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**2. CONTACT TIPS**

**I.D.**

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
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**4. LINER ASSEMBLIES**

**I.D.**

**O.D.**

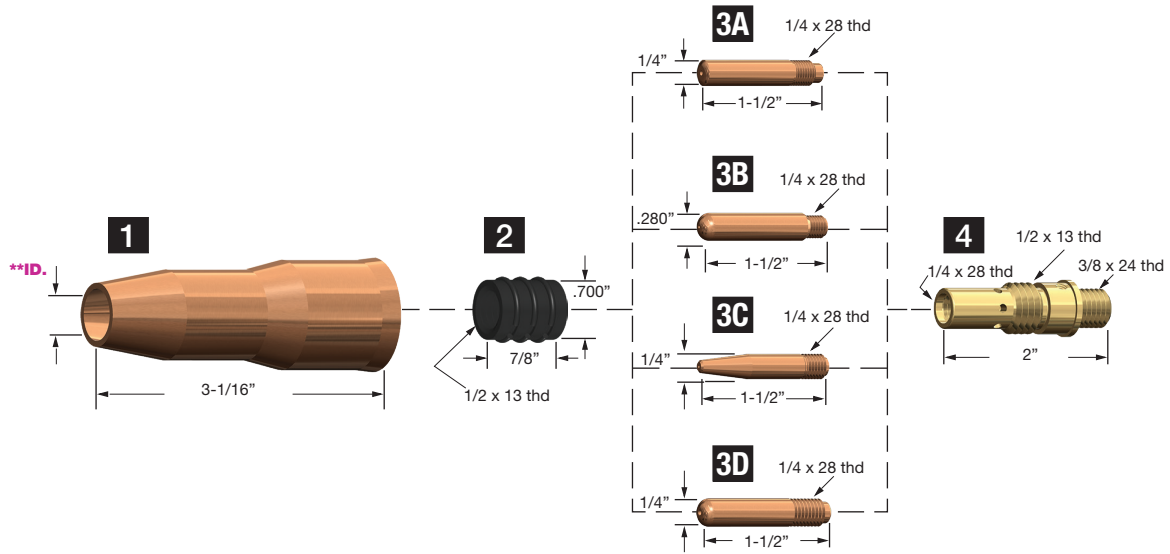
M16291-1	Liner Assy.	15'	.045	.063	.148
M16291-2	Liner Assy.	15'	.023	.036	.123

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76 LINCOLN® STYLE

COMPATIBLE WITH MAGNUM 200 / MAGNUM 250SP†

MIG



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
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

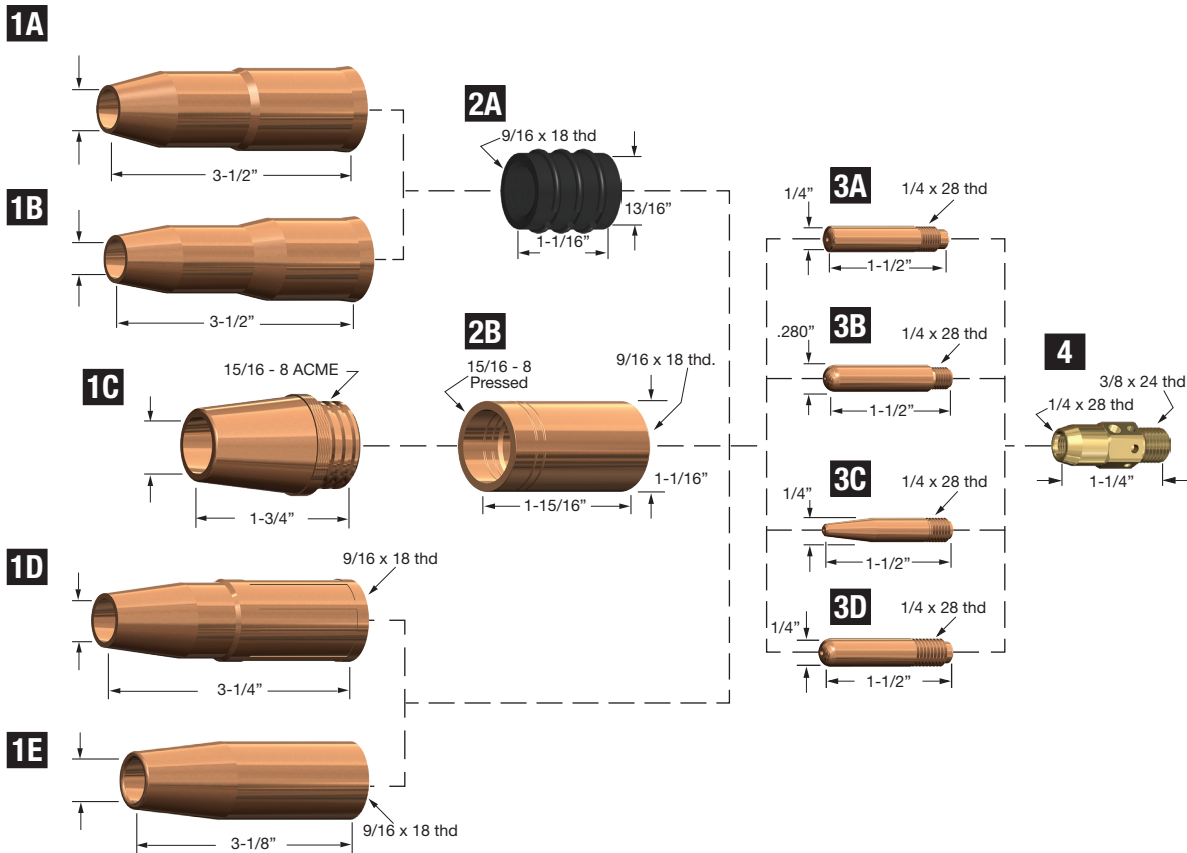
S19418-2	Gas Diffuser .025-.030
S19418-1	Gas Diffuser .035-.045

5. LINERS (NOT SHOWN) 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

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COMPATIBLE WITH 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	M16080-1 Nozzle Insulated	3/8" (09.5mm)
	M16080-2 Nozzle Insulated	1/2" (12.7mm)
	M16080-3 Nozzle Insulated	5/8" (15.9mm)
	M16080-4 Nozzle Insulated	3/4" (19.1mm)
E	M16081-1 Nozzle Insulated Flush	3/8" (09.5mm)
	M16081-2 Nozzle Insulated Flush 1/2"	(12.7mm)
	M16081-3 Nozzle Insulated Flush	5/8" (15.9mm)
	M16081-4 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

**3. CONTACT TIPS (CONTINUED)**

		I.D.
	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
B	S19392-1 Contact Tip H.D.	.035 (0.9mm) .043
	S19392-2* Contact Tip H.D.	.045 (1.2mm) .055
	S19392-4* Contact Tip H.D.	1/16" (1.6mm) .073
	S19392-5* Contact Tip H.D.	5/64" (2.0mm) .093
C	S19393-1 Contact Tip Tapered	.035 (0.9mm) .043
D	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 DIFFUSERS**

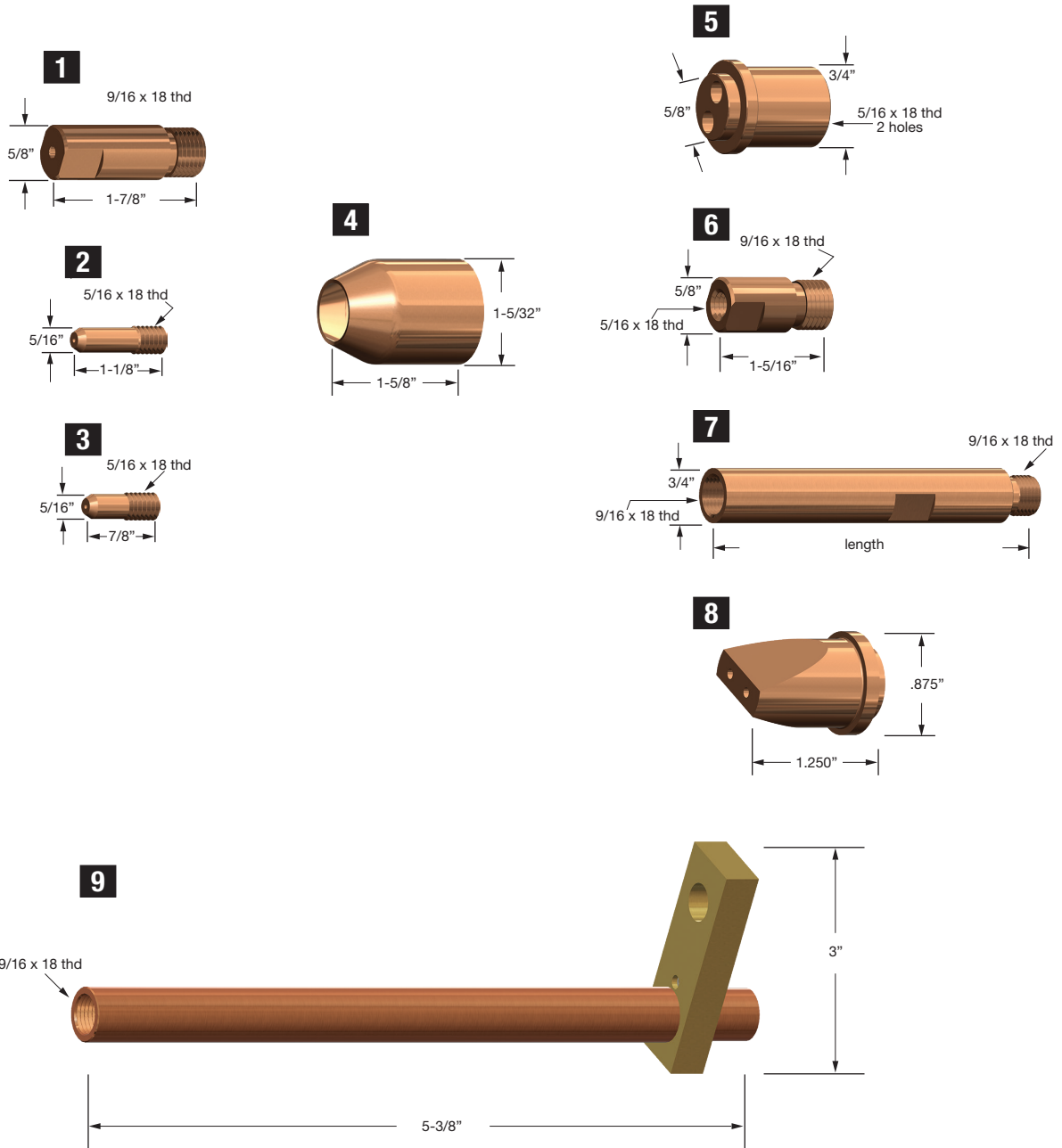
S19395-1	Gas Diffuser	
<b>LINERS (NOT SHOWN)</b>		
M16083-1	Liner Assy. 15'	.035-.045 .066 .188
M16083-2	Liner Assy. 15'	1/16" .076 .188
M16083-3	Liner Assy. 15'	5/64" .098 .188
M16101-7	Liner Assy. 25'	.035-.045 .066 .188
M16101-8	Liner Assy. 25'	1/16" .076 .188
M16101-9	Liner Assy. 25'	5/64" .098 .188

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78 LINCOLN® STYLE

COMPATIBLE WITH FULL AUTO SUB-ARC / SEMI AUTO SUB-ARC†

MIG



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COMPATIBLE WITH FULL AUTO SUB-ARC / SEMI AUTO SUB-ARC†

**1. CONTACT TIPS SUBMERGED ARC I.D.**

S10125-2.4	Tip Sub-Arc	(2.4mm)	
S10125-3.0	Tip Sub-Arc	(3.0mm)	
S10125-4.0	Tip Sub-Arc	(4.0mm)	
S10125-1/16T	Tip Tapered	1/16 (1.6mm)	.070
S10125-5/64T	Tip Tapered	5/64 (2.0mm)	.093
S10125-5/32T	Tip Tapered	3/32 (2.4mm)	.101
S10125-7/64T	Tip Tapered	7/64 (2.8mm)	.120
S10125-1/8T	Tip Tapered	1/8 (3.2mm)	.136
S10125-5/32T	Tip Tapered	5/32 (4.0mm)	.166
S10125-2.75T	Tip Tapered	(2.75mm)	
S10125-3.0T	Tip Tapered	(3.0mm)	
S10125-3.18T	Tip Tapered	(3.18mm)	
S10125-4.0T	Tip Tapered	(4.0mm)	
S10125-XL-1/8	Tip All Wire		
S10125-3/32M	Tip Mate		
S10125-1/8M	Tip Mate		
S10125-5/22M	Tip Mate		
S10125-1/8M-S	Tip Short Mate		
S10125-5/32M-S	Tip Short Mate		

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

(K129, K231, K391, K239, K112, K113-2)

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

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

T12011-.045	Contact Tip	.045 (1.2mm)	.055
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

**4. NOZZLES (USE K231, K391)**

T10575	Flux Nozzle
--------	-------------

**5. TWIN ARC TIP HOLDERS (USE ON K129)**

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

**6. TIP ADAPTERS (USE ON K391)**

S16844	Tip Adapter for T14050 Tips
--------	-----------------------------

**7. 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

**8. TWIN ARC NOZZLES**

S14033-052
S14033-1/16
S14033-5/64
S14033-3/32
841603-15

**9. NOZZLE BODY ASSEMBLIES**

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

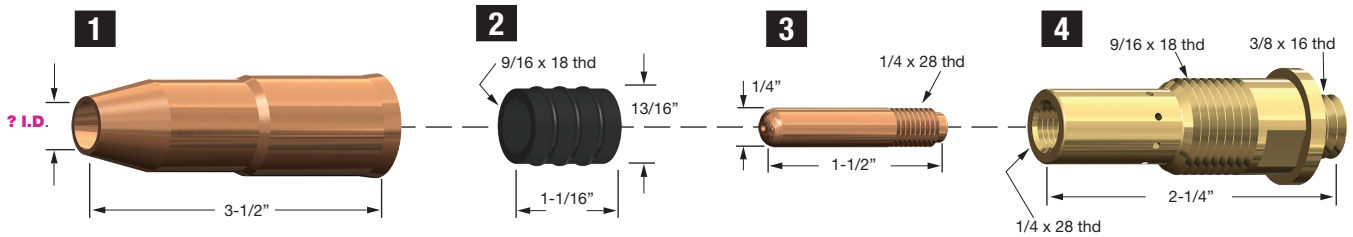
**ASSEMBLY**

S13164	Nozzle Body Insulator Assembly (w nut)
--------	--

MIG

80 LINCOLN® STYLE

COMPATIBLE WITH MAGNUM SPOOL-GUN†



1. NOZZLES

Part No.	Description	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

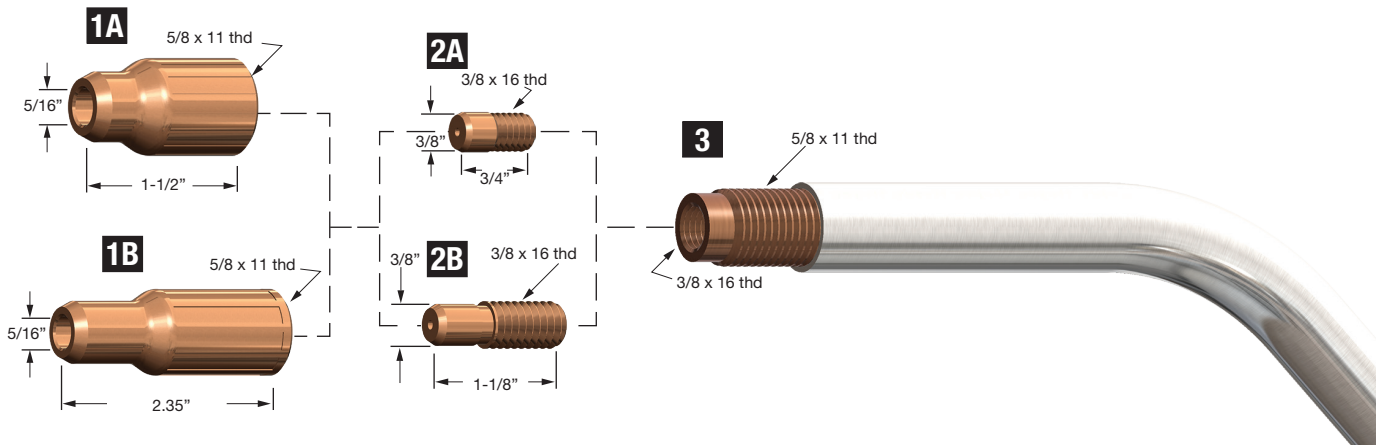
Part No.	Description	Tip Thickness	Tip Length	I.D.
S18697-44	Contact Tip Notched	.030 (0.8mm)		.037
S18697-45	Contact Tip Notched	.035 (0.9mm)		.043
S18697-46	Contact Tip Notched	3/64" (1.2mm)		.059

4. GAS DIFFUSER

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

MIG

COMPATIBLE WITH FLUX-CORE INNERSHIELD / K115, K116†



1. NOZZLES

Part No.	Description	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 (USE ON K233, K114)

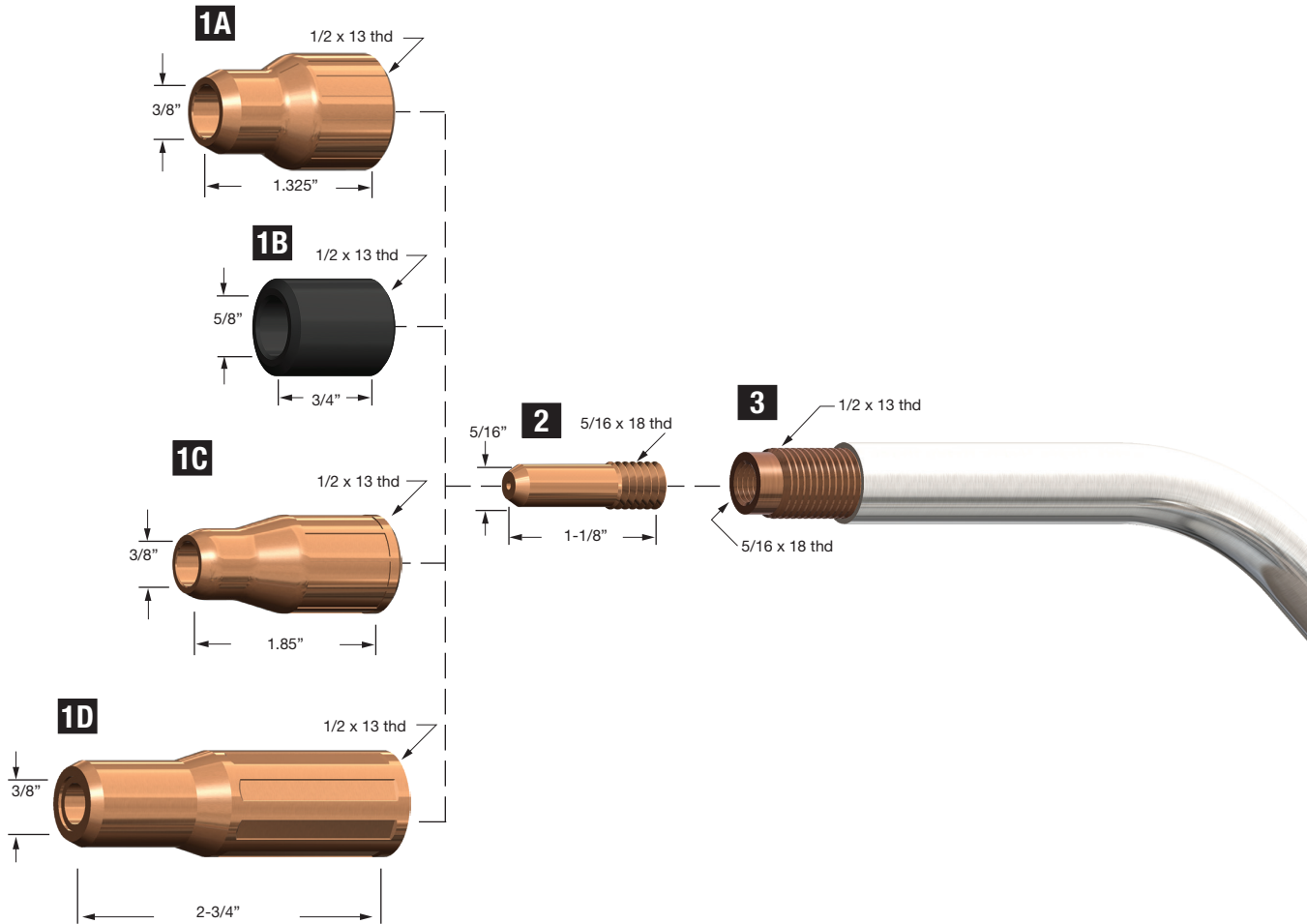
Part No.	Description	Tip Thickness	Tip Length	I.D.
A T12236-1/16	Contact Tip	1/16" (1.6mm)		.073
T12236-5/64	Contact Tip	5/64" (2.0mm)		.093
T12236-3/32	Contact Tip	3/32" (2.4mm)		.101
T12236-1/8	Contact Tip	1/8" (3.2mm)		.136
T12236-5/64-LL	Tip CRCZ	5/64 (2.0mm)		.093
T12236-3/32-LL	Tip CRCZ	3/32 (2.4mm)		.101
B 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
T14157-1/8	Contact Tip	1/8" (3.2mm)		.136

3. GOOSENECKS

Part No.	Description	Tip Thickness	Tip Length	Angle
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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**COMPATIBLE WITH FLUX-CORE INNERSHIELD / K136, K264, K345, K355, K361†**



**MIG**

**1. NOZZLES**

		<i>I.D.</i>
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>I.D.</i>
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**

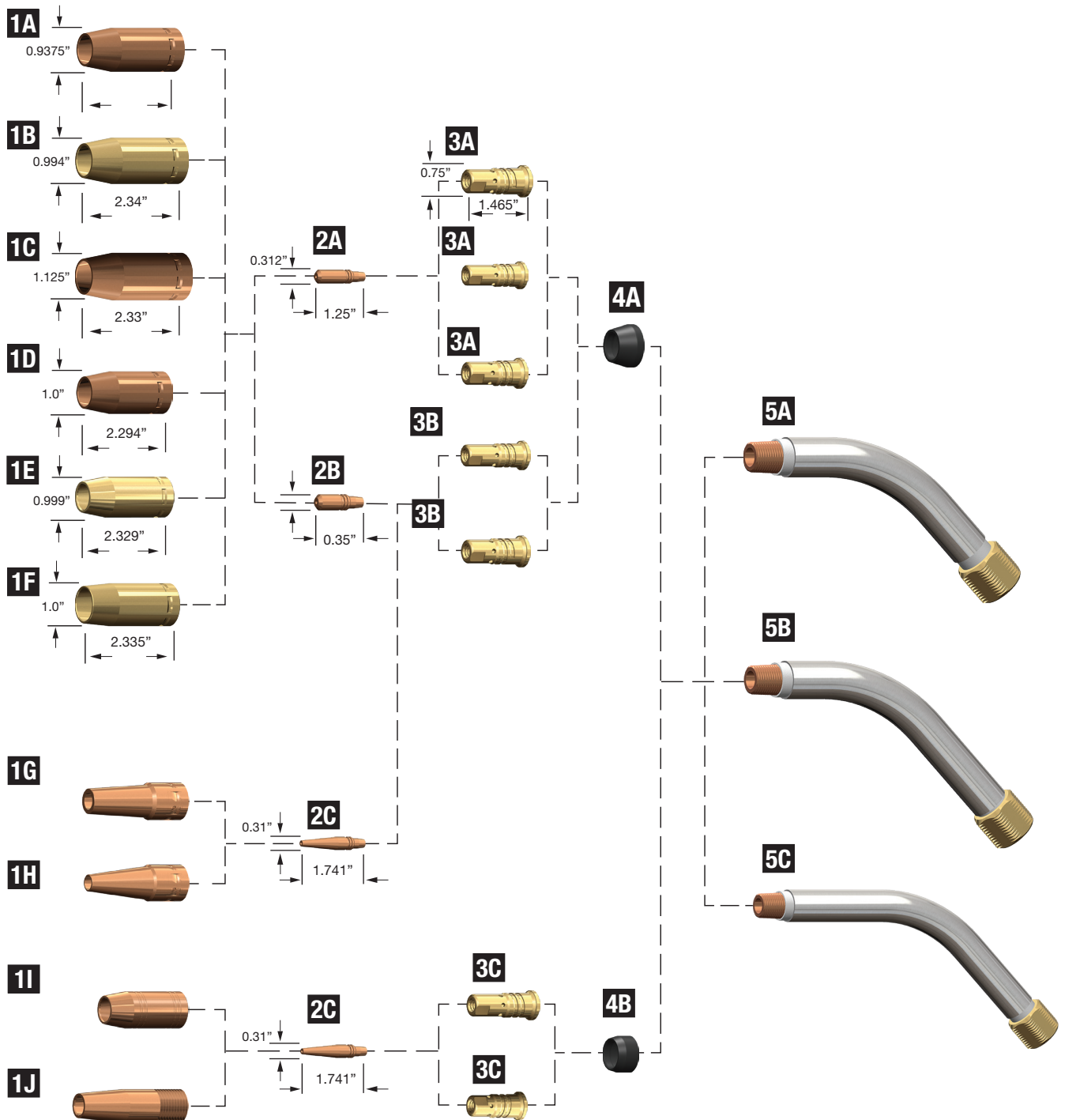
M11476	Gooseneck	6"	50°
M13304-6	Gooseneck	6"	30°
M13304-12	Gooseneck	12"	30°
M13304-12-50	Gooseneck	12"	50°
M14188	Gooseneck	6"	90°

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82 MILLER® STYLE

COMPATIBLE WITH FASTIP®†

MIG



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**COMPATIBLE WITH FASTIP® †**
**1. NOZZLES**
**I.D.**
**Screw On Nozzles**

A	207313	Copper	5/8"
B	199614	Heavy Duty Brass	5/8"
	199618	Heavy Duty Copper	5/8"
C	199612	Heavy Duty Brass	3/4"
	199617	Heavy Duty Copper	3/4"
D	199610	Standard Brass	1/2"
	199615	Standard Copper	1/2"
E	199613	Standard Brass	5/8"
	198855	Standard Copper	5/8"
F	199611	Standard Brass	3/4"
	199616	Standard Copper	3/4"

**Screw On Tapered Nozzles**

G	209036	Nozzle Copper	1/2"
H	209035	Nozzle Copper	3/8"

**Slip On Tapered Nozzles**

I	209033	Nozzle Copper	1/2"
J	209034	Nozzle Copper	3/8"

**2. CONTACT TIPS**
**A Heavy Duty**

206184	HD Contact Tip	.023
206185	HD Contact Tip	.030
206186	HD Contact Tip	.030-.035" AL
206187	HD Contact Tip	.035-.040" AL
206188	HD Contact Tip	.040-.045" AL
206189	HD Contact Tip	.052-3/64" AL
206190	HD Contact Tip	1/16" AL
206191	HD Contact Tip	.068" AL
206192	HD Contact Tip	5/64" AL
206193	HD Contact Tip	3/32"

**B Extra Heavy Duty**

199605	Extra HD Contact Tip	.030-.035" AL
199606	Extra HD Contact Tip	.035-.040" AL
198851	Extra HD Contact Tip	.040-.045" AL
198852	Extra HD Contact Tip	.052-3/64" AL
198853	Extra HD Contact Tip	1/16"
198854	Extra HD Contact Tip	.068"
199607	Extra HD Contact Tip	5/64"
199608	Extra HD Contact Tip	3/32"
199609	Extra HD Contact Tip	7/64-1/8"

**C Tapered**

209024	Tapered Contact Tip	.023"
209025	Tapered Contact Tip	.030"
209026	Tapered Contact Tip	.035"
209027	Tapered Contact Tip	.045"
209028	Tapered Contact Tip	3/64"
209029	Tapered Contact Tip	.052"
209030	Tapered Contact Tip	1/16"

**3. DIFFUSERS**
**A Standard**

206196	Flush Tip
206195	1/8" Tip Recess
210664	1/4" Tip Recess

**B Extra Heavy Duty**

199623	Flush Tip
198857	1/8" Recess

**C Slip-On**

209031	Slip-on Recessed
209032	Slip-on Flush

**4. INSULATORS**

A	198856	Standard Insulator
B	209047	Tapered Insulator

**5. GOOSENECKS**
**Aluminum jacketed w/wrench swivel**

A	199625	4.5"/45° Bend - 360° swivel
B	199626	6"/45° Bend - 360° swivel
C	199627	8"/45° Bend - 360° swivel

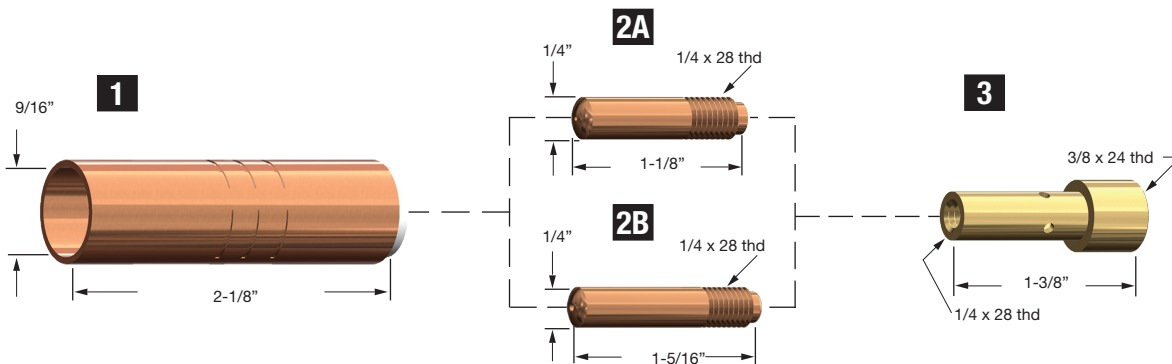
**MIG**

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# 84 MILLER® STYLE

COMPATIBLE WITH GA-17C†

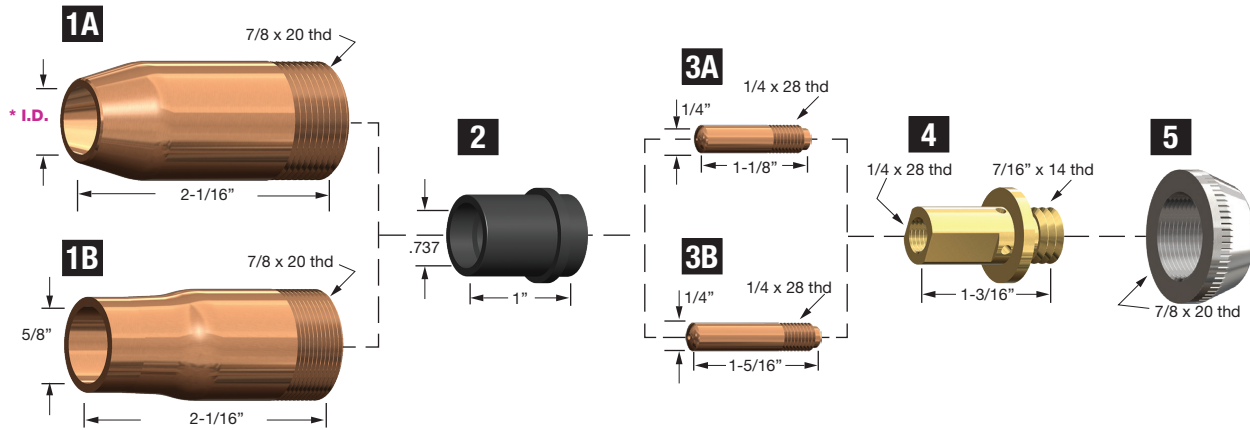
MIG



1. NOZZLES		<i>I.D.</i>	
128-535	Nozzle Insulated	1/2" (12.7mm)	
2. CONTACT TIPS		<i>I.D.</i>	
A	087-299	Contact Tip Std.	.025 (0.6mm)
	000-067	Contact Tip Std.	.030 (0.8mm)
	000-068	Contact Tip Std.	.035 (0.9mm)
B	087-300	Contact Tip Long	.025 (0.6mm)
	071-825	Contact Tip Long	.030 (0.8mm)
	054-202	Contact Tip Long	.035 (0.9mm)
3. TIP ADAPTERS			
118-267	Tip Adapter for .023-.025 Wire		

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COMPATIBLE WITH GA-20C†



**MIG**

**1. NOZZLES**

		<b>I.D.</b>
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**

		<b>I.D.</b>	<b>I.D.</b>
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
---------	---------------

		<b>I.D.</b>	<b>O.D.</b>
083-885	Liner	.030-.035 (0.8-0.9mm)	.052 .163
083-891	Liner	.035-.045 (0.9-1.2mm)	.064 .173

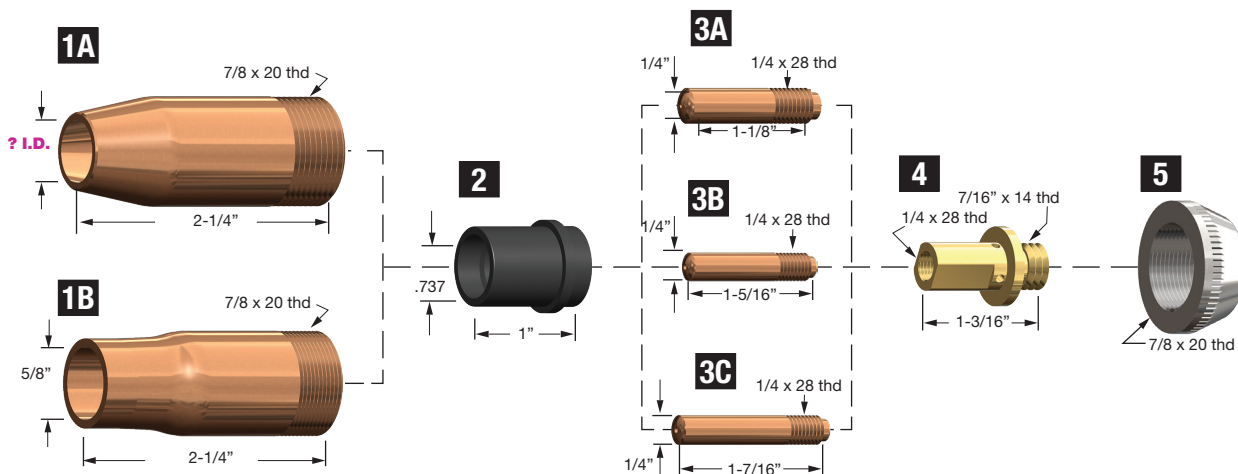
\*Standard Contact Tips are flush with Nozzle.

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

# 86 MILLER® STYLE

COMPATIBLE WITH GA-21C/CM†

MIG



### 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	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

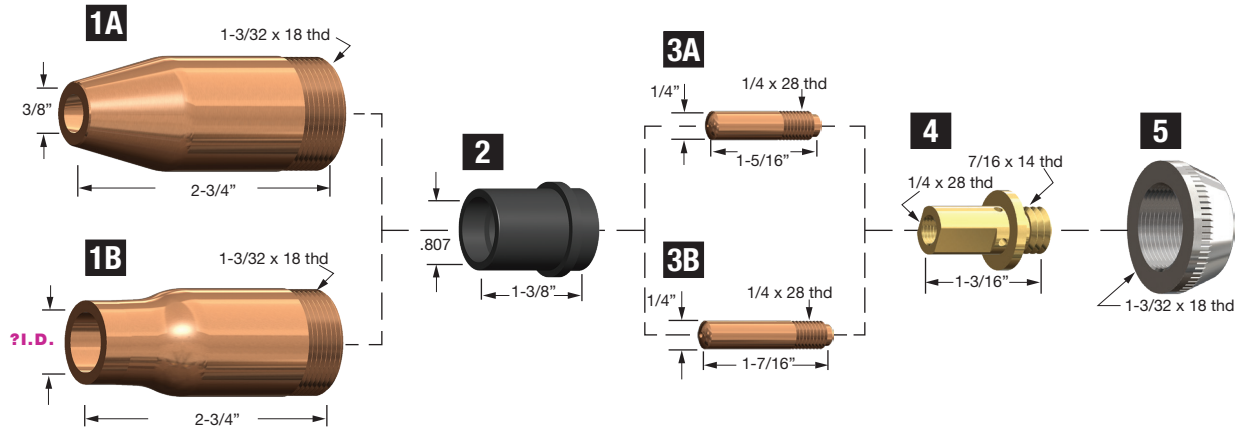
082-063	Retaining Nut
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\*Short Contact Tips are recessd 1/16" inside Nozzle.

\*Standard Contact Tips are flush with Nozzle.

\*\*Long Contact Tips project 1/8" outside Nozzle.

COMPATIBLE WITH GA-40C/CAL†



**MIG**

**1. NOZZLES**

			<i>I.D.</i>
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>I.D.</i>
A	054-202	Contact Tip Short**	.035 (0.9mm) .043
	054-201	Contact Tip Short**	.045 (1.2mm) .055
B	054-183	Contact Tip Std.*	.035 (0.9mm) .043
	054-157	Contact Tip Std.*	.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

**LINERS (NOT SHOWN) I.D. O.D.**

083-891 Liner 15' .035-.045 .064 .173

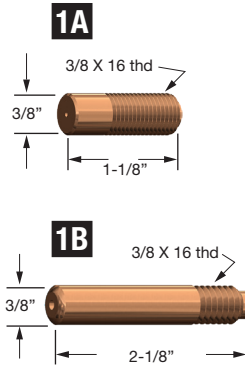
\*\*Short Contact Tips are recessed 1/8" inside Nozzle  
 \*Standard and Tapered Contact Tips are flush with Nozzle

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**88 MILLER® STYLE**

COMPATIBLE WITH GA-50C1 / G-40GL / A-500GL / GA-50P†

MIG

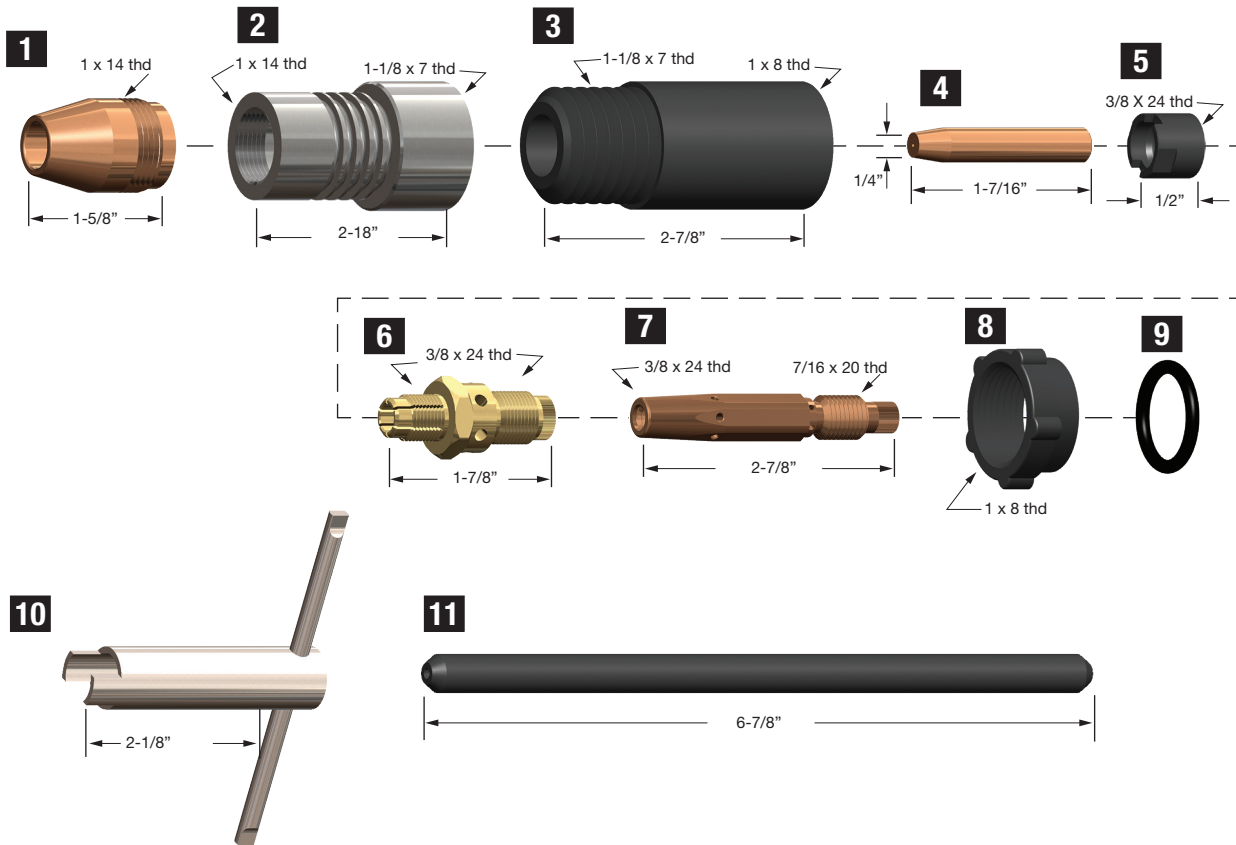


**1. CONTACT TIPS**

***I.D.***

A	045-356	Contact Tip	.045 (1.2mm)	.055
B	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

COMPATIBLE WITH SPOOLMATIC XR†



**MIG**

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.	
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

6. ADAPTER CONTACT TUBE	
136-680	Adapter Contact Tube

7. TUBE HEAD	
136-681	Tube Head with Set Screw 604-612

8. NOZZLE EXTENSION JAM NUT	
058-685	Nozzle Extension Jam Nut

9. O-RING	
134-800	O-Ring .614 x .070 CS

10. WRENCH	
136-821	Wrench Contact Tube Nut

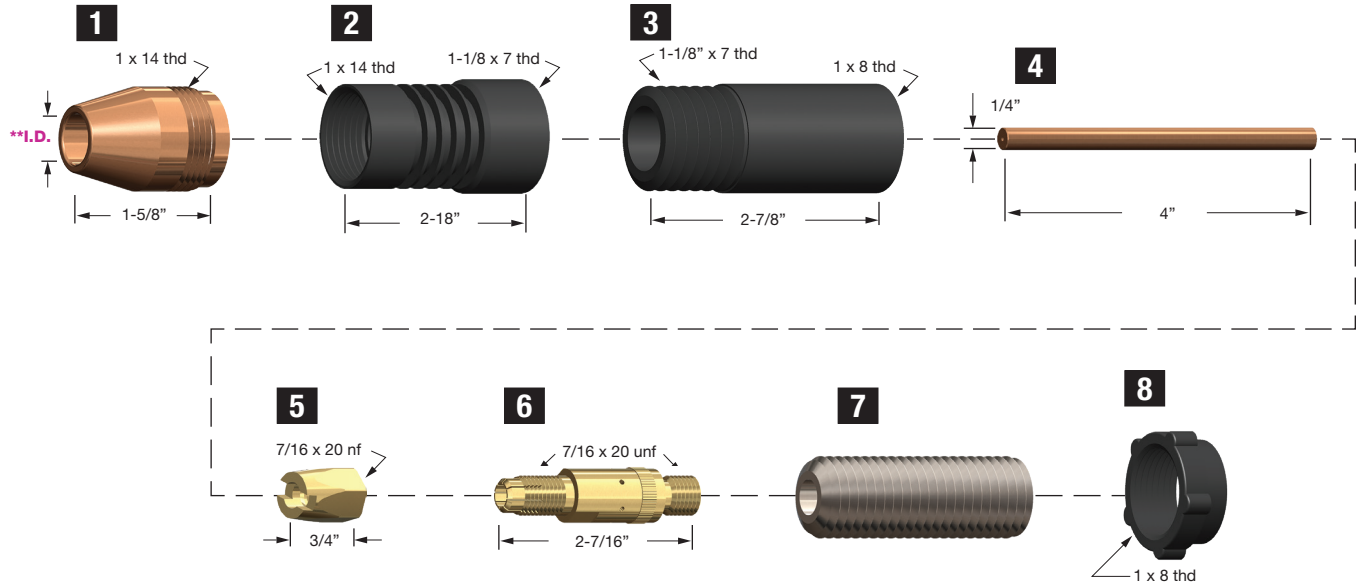
  

11. LINERS		
136-682	Liner Teflon™	.023-.035
136-683	Liner Teflon	.045-1/16"

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90 MILLER® STYLE

COMPATIBLE WITH SPOOLMATIC 1 / SPOOLMATIC 2 / SPOOLMATIC 3†



MIG

**1. NOZZLES**

		<b>I.D.</b>
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**

		<b>I.D.</b>
094-259	Contact Tip	.035 (0.9mm) .043
094-260	Contact Tip	.047 (1.2mm) .059

**5. NUT**

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

**6. ADAPTER CONTACT TIP**

058-678	Adapter Contact Tip
---------	---------------------

**7. ADAPTER BARREL**

009-541	Adapter Barrel (Not Shown)
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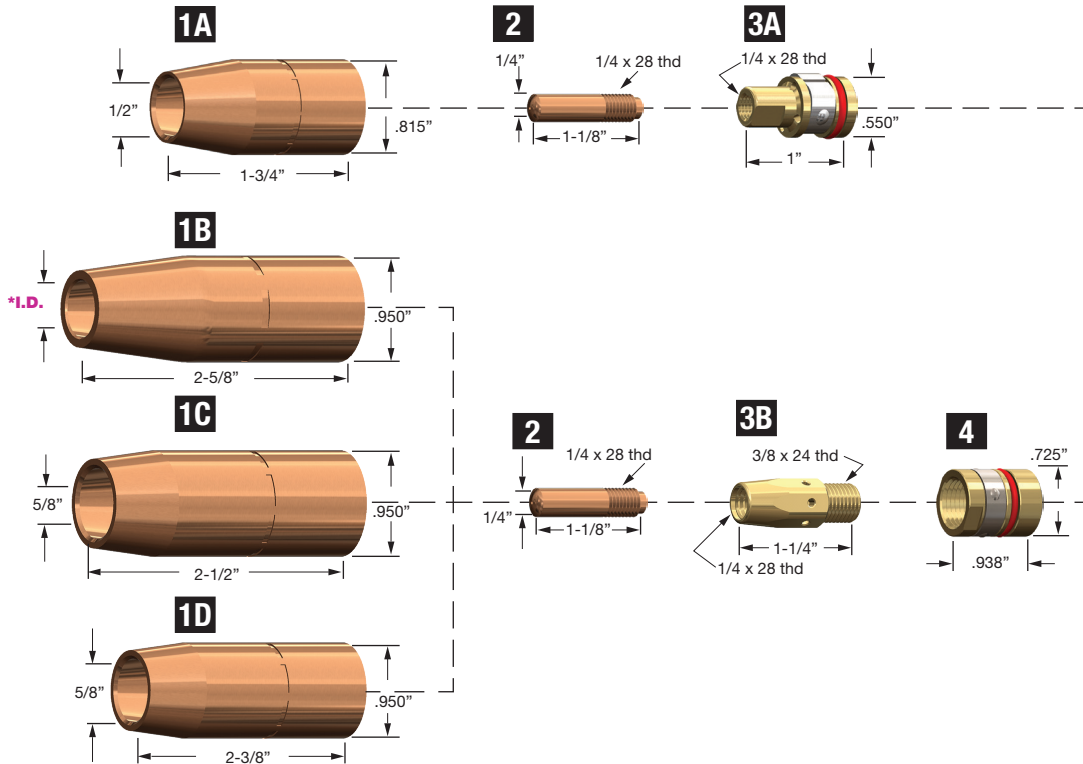
**8. NOZZLE EXTENSION JAM NUT**

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

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COMPATIBLE WITH M15 / M25/25M / M40/M40AL†



**MIG**

**1. NOZZLES**

		<i>I.D.</i>
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 (NOT SHOWN)**

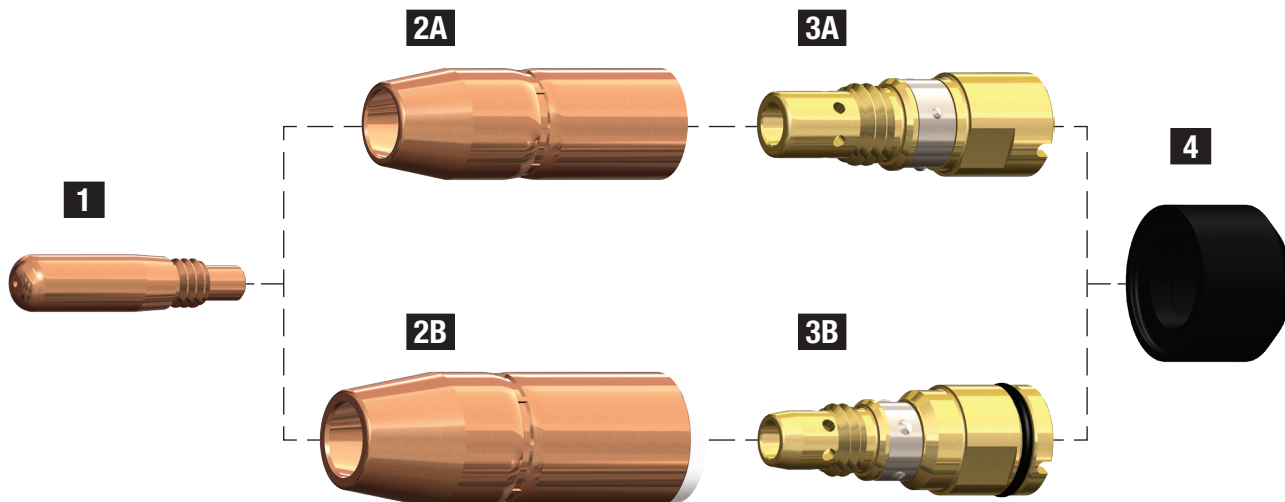
				<i>I.D.</i>	<i>O.D.</i>
172-257	Liner 15'	.023-.025	(0.6mm)	.051	.156
172-258	Liner 15'	.030-.035	(0.8-0.9mm)	.061	.166
172-259	Liner 15'	.035-.045	(0.9-1.2mm)	.087	.188
172-250	Liner 15'	1/16"-5/64"	(1.6-2.0mm)	.098	.188

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92 MILLER® STYLE

COMPATIBLE WITH MDX-100™ MDX-250™

MIG



**1. CONTACT TIPS**

		<b>WIRE SIZE</b>
T-M023	Contact Tip Cu	0.023" (0.6mm)
T-M030	Contact Tip Cu	0.030" (0.8mm)
T-M035	Contact Tip Cu	0.035" (0.9mm)
T-M045	Contact Tip Cu	0.045" (1.2mm)
T-M047	Contact Tip Cu	3/64" (1.2mm)

**2. NOZZLES**

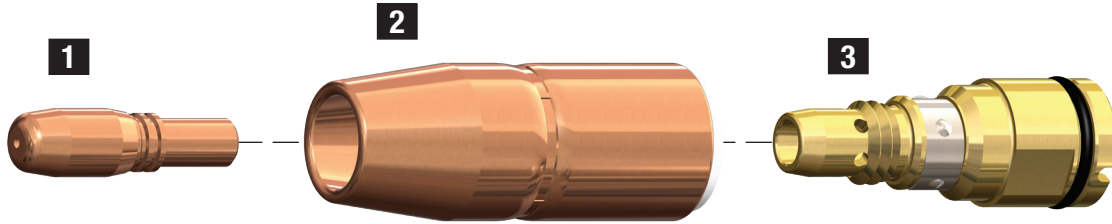
			<b>I.D.</b>
A	NS-M1200C	Nozzle Flush	1/2"
	NS-M1200B	Nozzle Flush	1/2"
B	N-M1200C	Nozzle Flush	1/2"
	N-M1218C	Nozzle 1/8" Recess	1/2"
	N-M5800C	Nozzle Flush	5/8"
	N-M5818C	Nozzle 1/8" Recess	5/8"
	N-M58XTC	Nozzle 1/8" Stick-out	5/8"

**3. DIFFUSERS**

A	D-M100	Diffuser
B	D-M250	Diffuser

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COMPATIBLE WITH M-SERIES M-100 & M-25™



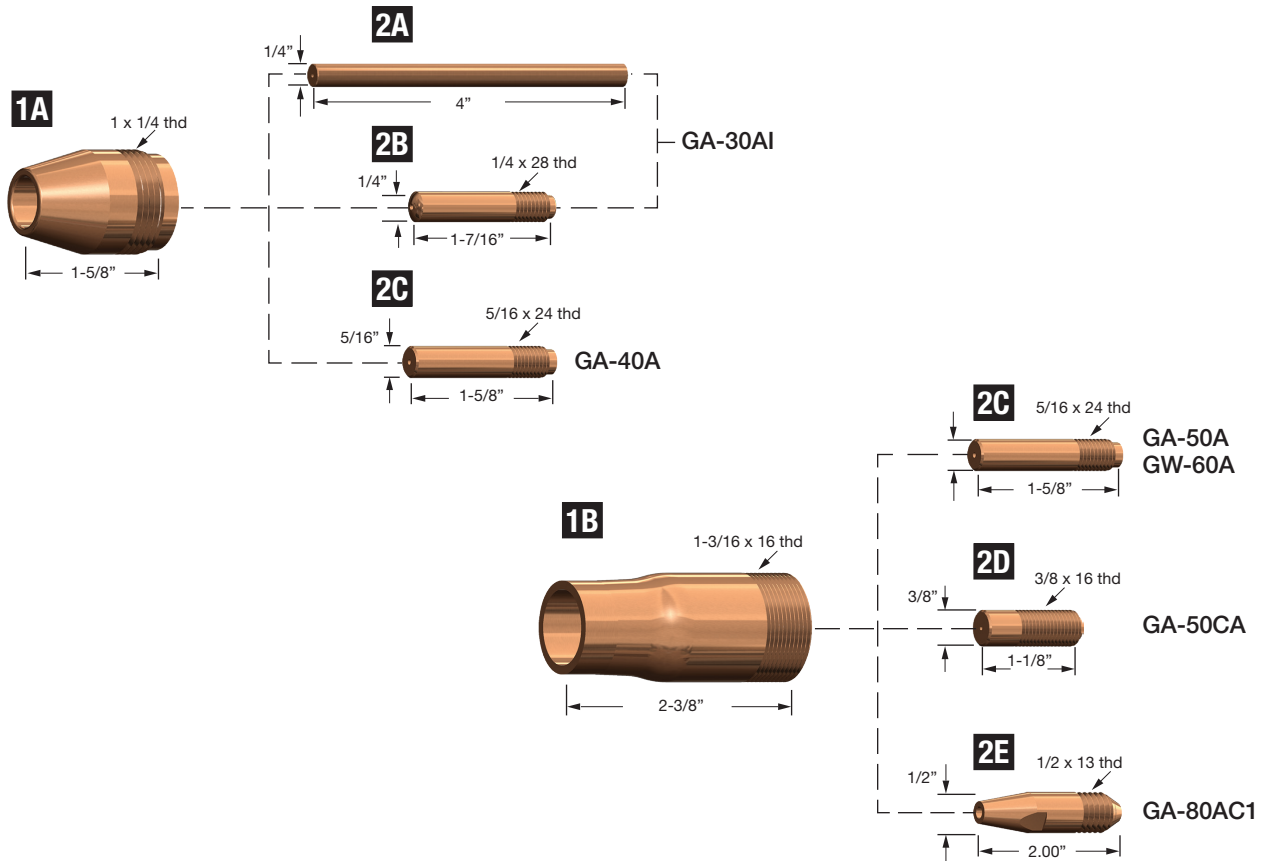
**MIG**

1. CONTACT TIPS		WIRE SIZE
T-M023	Contact Tip Cu	0.023" (0.6mm)
T-M030	Contact Tip Cu	0.030" (0.8mm)
T-M035	Contact Tip Cu	0.035" (0.9mm)
T-M045	Contact Tip Cu	0.045" (1.2mm)
T-M047	Contact Tip Cu	3/64" (1.2mm)
T-A023CHM	Contact Tip Cu	0.023" (0.6mm)
T-A030CHM	Contact Tip Cu	0.030" (0.8mm)
T-A035CHM	Contact Tip Cu	0.035" (0.9mm)
T-A039CHM	Contact Tip Cu	0.039" (1.0mm)
T-A045CHM	Contact Tip Cu	0.045" (1.2mm)
2. NOZZLES		I.D.
NS-M1200C	Nozzle Flush	1/2"
NS-M1200B	Nozzle Flush	1/2"
NS-MFLX	Nozzle Gasless	
N-M1200C	Nozzle Flush	1/2"
N-M1218C	Nozzle 1/8" Recess	1/2"
N-M5800C	Nozzle Flush	5/8"
N-M5818C	Nozzle 1/8" Recess	5/8"
N-M58XTC	Nozzle 1/8" Stick-out	5/8"
N-A5800CM	Nozzle Flush	5/8"
N-A5818CM	Nozzle 1/8" Recess	5/8"
N-A5814CM	Nozzle 1/4" Recess	5/8"
3. DIFFUSERS		
1070115	Diffuser M-100 AccuLock™ MDX	
1070116	Diffuser M-25 AccuLock™ MDX	
1070117	Diffuser M-25 AccuLock™ S	

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94 MILLER® STYLE

COMPATIBLE WITH AUTOMATIC WELDING GUNS†



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

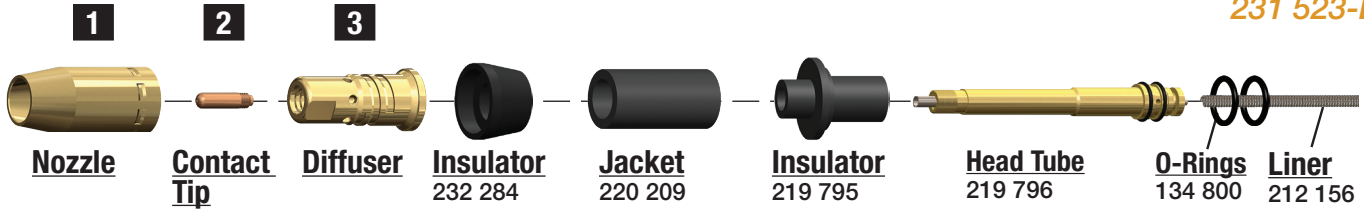
				I.D.
A	094-259	Contact Tip	.035 (0.9mm)	.043
	094-260	Contact Tip	.047 (1.2mm)	.059
	050-626	Contact Tip	.035-.047 (0.9-1.2mm)	.059
B	071-825	Contact Tip	.030 (0.8mm)	.037
	054-202	Contact Tip	.035 (0.9mm)	.043
	054-201	Contact Tip	.045 (1.2mm)	.055
C	056-820	Contact Tip	.030 (0.8mm)	.037
	056-821	Contact Tip	.035 (0.9mm)	.043
	057-737	Contact Tip	.052 (1.3mm)	.063
	056-823	Contact Tip	1/16" (1.6mm)	.073
D	045-356	Contact Tip	.045 (1.2mm)	.055
E	075-694	Contact Tip	3/64" (1.2mm)	.059
	075-695	Contact Tip	1/16" (1.6mm)	.073
	075-697	Contact Tip	3/32" (2.4mm)	.110
	075-699	Contact Tip	1/8" (3.18mm)	.144

MIG

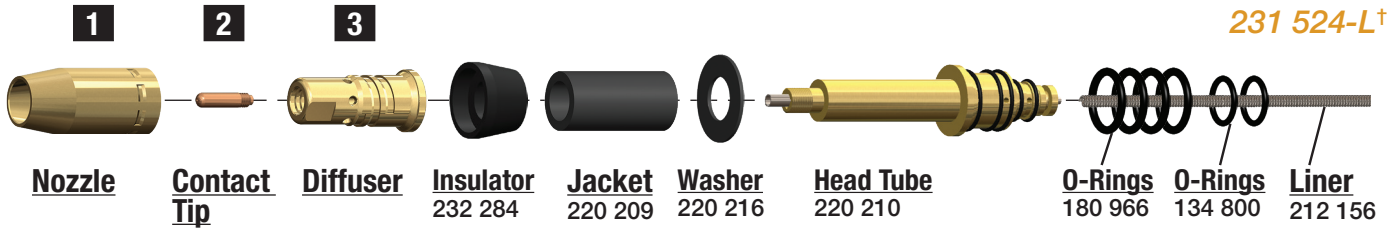
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COMPATIBLE WITH XR-PISTOL†

**AIR-COOLED ASSEMBLY  
231 523-L†**



**WATER-COOLED ASSEMBLY  
231 524-L†**



**MIG**

**1. NOZZLES**

		<b>I.D.</b>
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**

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

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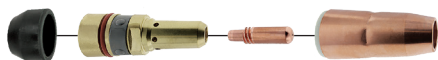
**LIGHTNING® SEMI-AUTOMATIC GUN CONVERSION KITS AVAILABLE FOR & COMPATIBLE WITH BERNARD®, LINCOLN® & TWECO® WITH A SIMPLE CHANGE-OUT OF PARTS†**

MIG

**LIGHTNING® RETAINING HEADS**

Part #	Description
65-3103*	Retaining Head for Extra Heavy Duty
63-3103	Retaining Head T/L
63-3103-2	Retaining Head T/L
63-3116	Thread-on Retaining Head HD
63-3402	Retaining Ring
63-3301	O-Ring Orange 016
63-3118-T	Diffuser, Bernard® Threaded

\*This retaining head must be used with #65-11XX contact tip. See Contact Tips Selector Chart on pg. 2



Gooseneck Insulator    Retaining Head    Contact Tip    Nozzle

**BENEFITS**

- ✓ Greater surface area contact between tip and head ensures better heat dissipation and conductivity.
- ✓ Tapered tip design creates a more secure seat, eliminating loose tips.
- ✓ Cooler tip temperature reduces wear and extends tip life.
- ✓ Dual-lead thread design allows for 180 degree rotation of tip to new wear point for extended tip life.
- ✓ Brass insert prevents wear and extends life.
- ✓ Superior surface finish minimizes spatter adhesion.
- ✓ Durable hard drawn copper or brass withstands abuse.

**Lightning® Contact Tips Selector Chart**

Part #	Description
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035/.040 I.D. pk 10
63-1138	Contact Tip HD .030 pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068/.078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip
63-12XX	XX = last 2 digits indicate wire size
Part #	CZ Tip (Chromium Zirconium)
63-13XX	XX + last 2 digits indicate wire size
Part #	Extra Heavy Duty Tip
65-11XX*	XX = last 2 digits indicate wire size

\*This contact tip must be used with #65-3103 retaining head. See Lightning Retaining Heads Chart on pg. 1

**BERNARD® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Q-Gun Series	63-6105	63-3118	63-11XX†	6X-XXXX**
EZ Feed Series	63-6105	63-3118	63-11XX†	6X-XXXX**
T-Series†	63-6202-HD	63-3103	63-11XX†	6X-XXXX**
Roughneck C Miller	63-6105	63-3118	63-11XX†	6X-XXXX**

**LINCOLN® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Magnum 300	63-6105	63-3103	63-11XX†	6X-XXXX**
Magnum 400	63-6105	63-3103	63-11XX†	6X-XXXX**
Magnum Pro	63-6105	63-3119	63-11XX†	6X-XXXX**

**TWECO® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Tweco #3	63-6105	63-3103	63-11XX†	6X-XXXX**
Tweco #4	63-6105	63-3103	63-11XX†	6X-XXXX**
SprayMaster 450	63-6105	63-3103	63-11XX†	6X-XXXX**
WeldSkill 400	63-6105	63-3103	63-11XX†	6X-XXXX**

Use the Lightning® contact tip system (gooseneck insulator, retaining head, contact tip and nozzle) with Bernard® Lincoln® or Tweco® MIG guns.

Use 63-3118 Retaining Head on goosenecks with external 9/16"-18 thread, such as Q-gun and EZ Feed guns with 1/4" NPT thread.

† T-Series retaining head can only be used on Bernard® T-Series (Tregaskiss®) guns.

‡ 63-11XX (XX = your wire size)

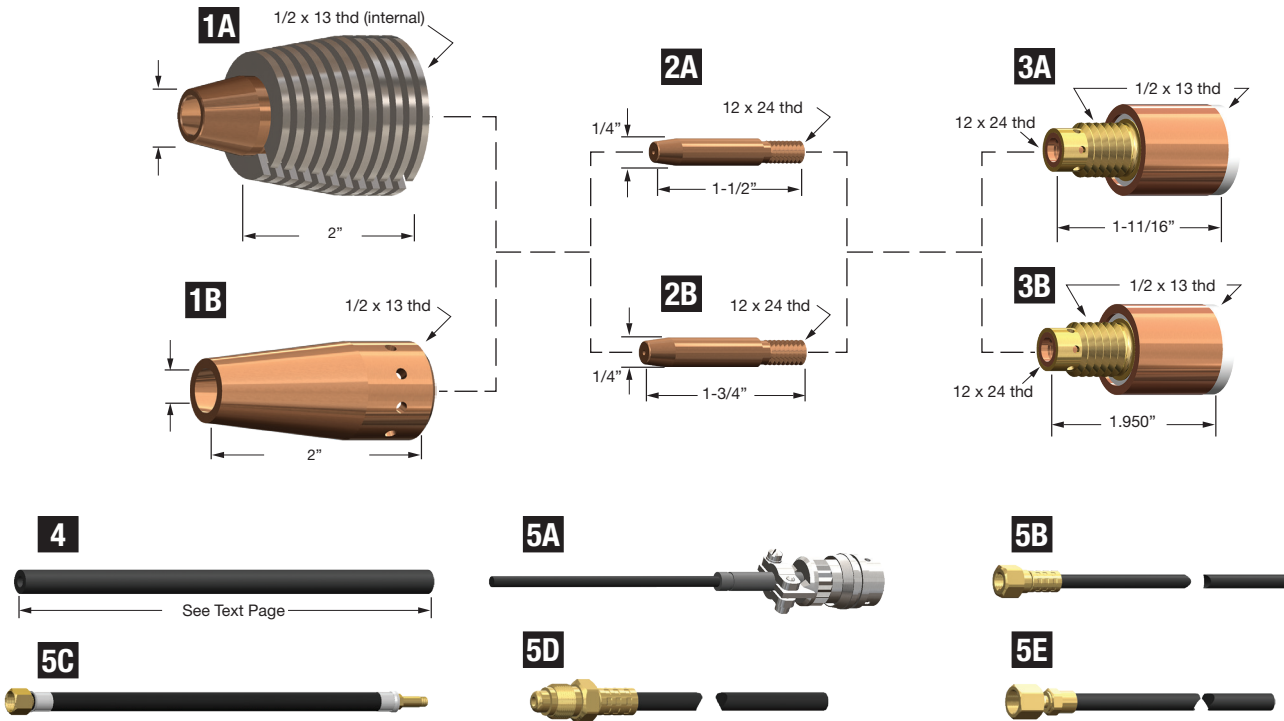
\*\* 6X-XXXX (see Nozzle Selector Chart on next page)

**Lightning® Nozzle Selector Chart (Air-Cooled Slip On)**

Standard Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
64-2950	1/2" Brass	.938" / 2.63"	1/8" Stickout
63-2950B	1/2" Brass	.938" / 2.88"	1/8" Recess
63-2150	1/2" Copper	.938" / 2.88"	1/8" Stickout
63-2762	5/8" Copper	.938" / 2.51"	1/4" Stickout
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stickout
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
Heavy Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stickout
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stickout
64-2962	5/8" Copper	1.062" / 2.75"	Flush
65-2862	5/8" Brass	1.062" / 2.75"	Flush
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
64-2562	5/8" Copper	1.062" / 3.00"	1/4" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
65-2375	3/4" Brass	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess
64-2387	7/8" Brass	1.062" / 3.00"	1/4" Recess
65-2562-T	5/8" Copper	1.062" / 2.78"	1/8" Recess

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COMPATIBLE WITH COBRA TORCH / PRINCE TORCH†



**MIG**

**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" (09.5mm)
	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.
A	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
B	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

**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

**4. TORCH LINERS (CONTINUED)**

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	WhiteTeflon™ H.D.	5-1/2"	All
615-0326	WhiteTeflon™ H.D.	7-3/4"	Aluminum

**5. CABLE AND HOSE ASSEMBLIES**

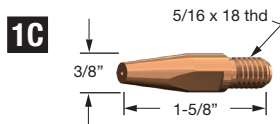
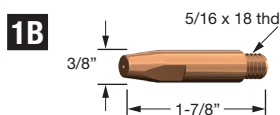
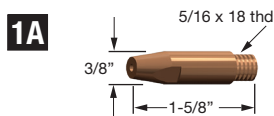
A	001-0610	Electrical Cable Assembly	15'
	001-0611	Electrical Cable Assembly	25'
	001-0612	Electrical Cable Assembly	30'
	001-0664	Electrical Cable Assembly	50'
	001-0613	7 Pin Cannon Plug	
B	001-0537	Gas Hose Assembly	15'
	001-0538	Gas Hose Assembly	25'
	001-0557	Gas Hose Assembly	30'
	001-0565	Gas Hose Assembly	50'
C	001-0149	Power/Water Assembly	15'
	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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**98 MK PRODUCTS® STYLE**

COMPATIBLE WITH KINGCOBRA†

MIG



**2**



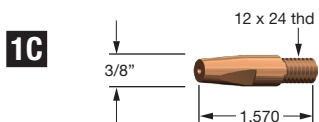
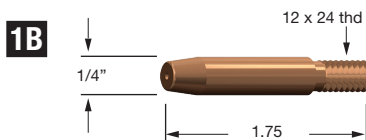
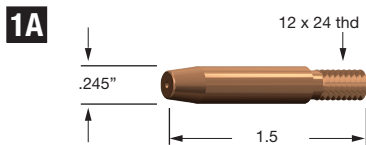
**1. CONTACT TIPS**

					<i>I.D.</i>
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
C	621-0021	Tip Spray Arc.	.035	(0.9mm)	.044
	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'

COMPATIBLE WITH SIDEWINDER, PRINCE SG, COBRA SX, COBRA MX†



**1 CONTACT TIPS**

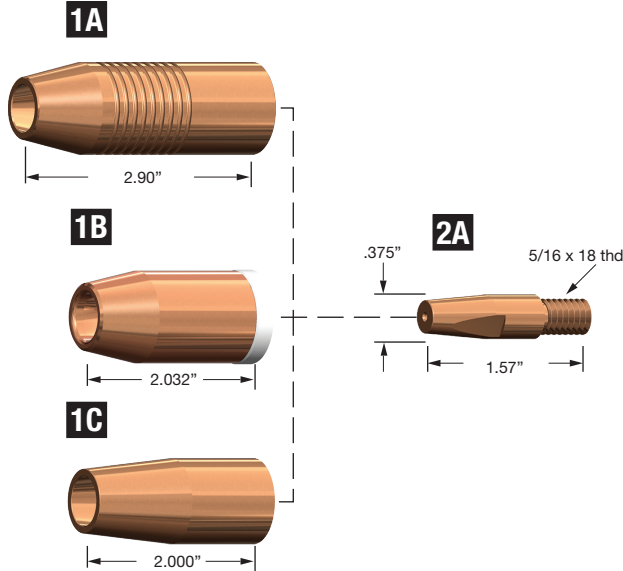
					<i>I.D.</i>
A	621-0325	Tip Spray Arc.	.030	(0.8mm)	.037
	621-0076	Tip Spray Arc.	.030	(0.8mm)	.040
	621-0001	Tip Spray Arc.	.035	(0.9mm)	.044
	621-0327	Tip Spray Arc.	.045	(1.2mm)	.053
	621-0003	Tip Spray Arc.	.045	(1.2mm)	.060
	621-0075	Tip Spray Arc.	1/16"	(1.6mm)	.075
	621-0153	Tip Spray Arc.	1/16"	(1.6mm)	.086
B	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
C	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
	621-0395	Contact Tip	1/16"		.085

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COMPATIBLE WITH PYTHON, COBRAMAX, PRINCE XL, COBRA MX†

**AIR COOLED**



**1. NOZZLES**

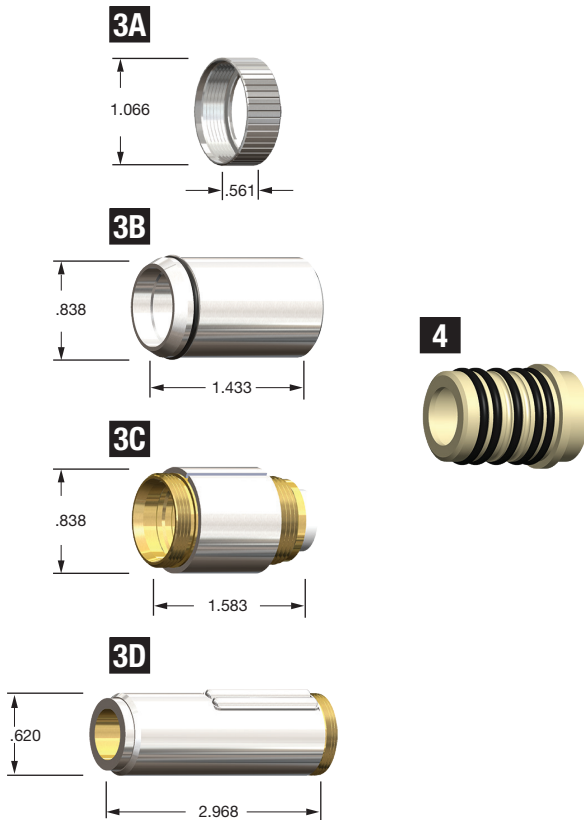
		I.D.	
A	621-0248	Nozzle	3/8"
	621-0249	Nozzle, Finned	1/2"
	621-0250	Nozzle, Finned	5/8"
	621-0251	Nozzle, Finned HD	5/8"
B	621-0420	MAX Cup	3/8"
	621-0421	MAX Cup	1/2"
	621-0422	MAX Cup	5/8"
C	621-0440	Quick Cup	3/8"
	621-0441	Quick Cup	7/16"
	621-0442	Quick Cup	1/2"
	621-0443	Quick Cup	5/8"

**2. CONTACT TIPS**

		I.D.	I.D.
A	621-0390	Contact Tip	.030" .040
	621-0397	Contact Tip	.035" .044
	621-0392	Contact Tip	.045" .053
	621-0393	Contact Tip	.052" .060
	621-0394	Contact Tip	1/16" .075
	621-0394-Special	Contact Tip	.068
	621-0395	Contact Tip	1/16" .085

**MIG**

**WATER COOLED**



**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	

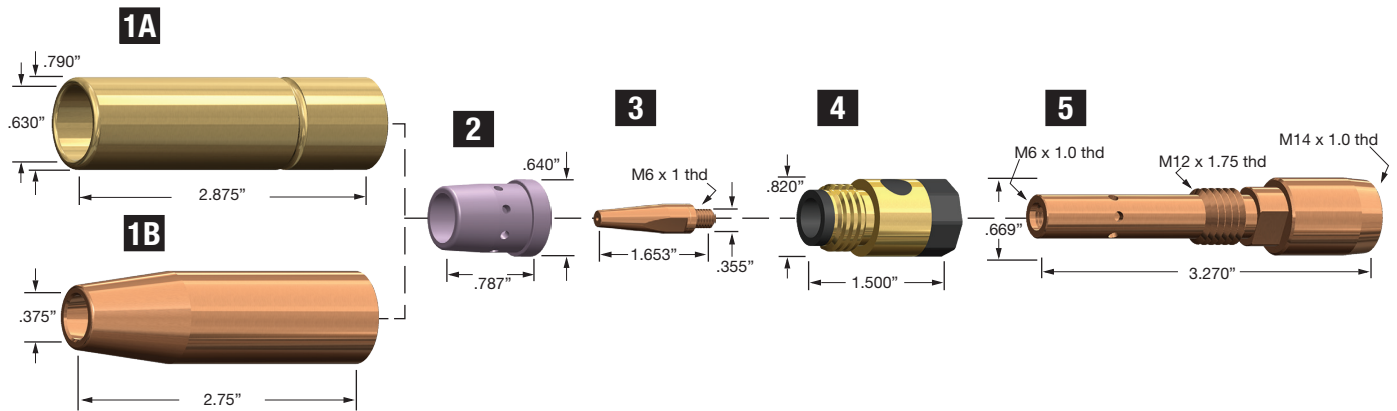
**4. INSULATOR CUP**

261-0381

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100 OTC®/DAIHEN® STYLE

MIG



**1. NOZZLES**

**I.D.**

A	U608N02	Nozzle	5/8" (16mm)
B	U2464H10	Nozzle #6	3/8" (9.5mm)
	U4167H04	Deep Narrow Nozzle	

**2. ORIFICE**

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

**3. CONTACT TIPS**

**I.D.**

A	U475E10	Contact Tip	.045 H (1.2mm)	.055
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**4. NOZZLE INSULATORS**

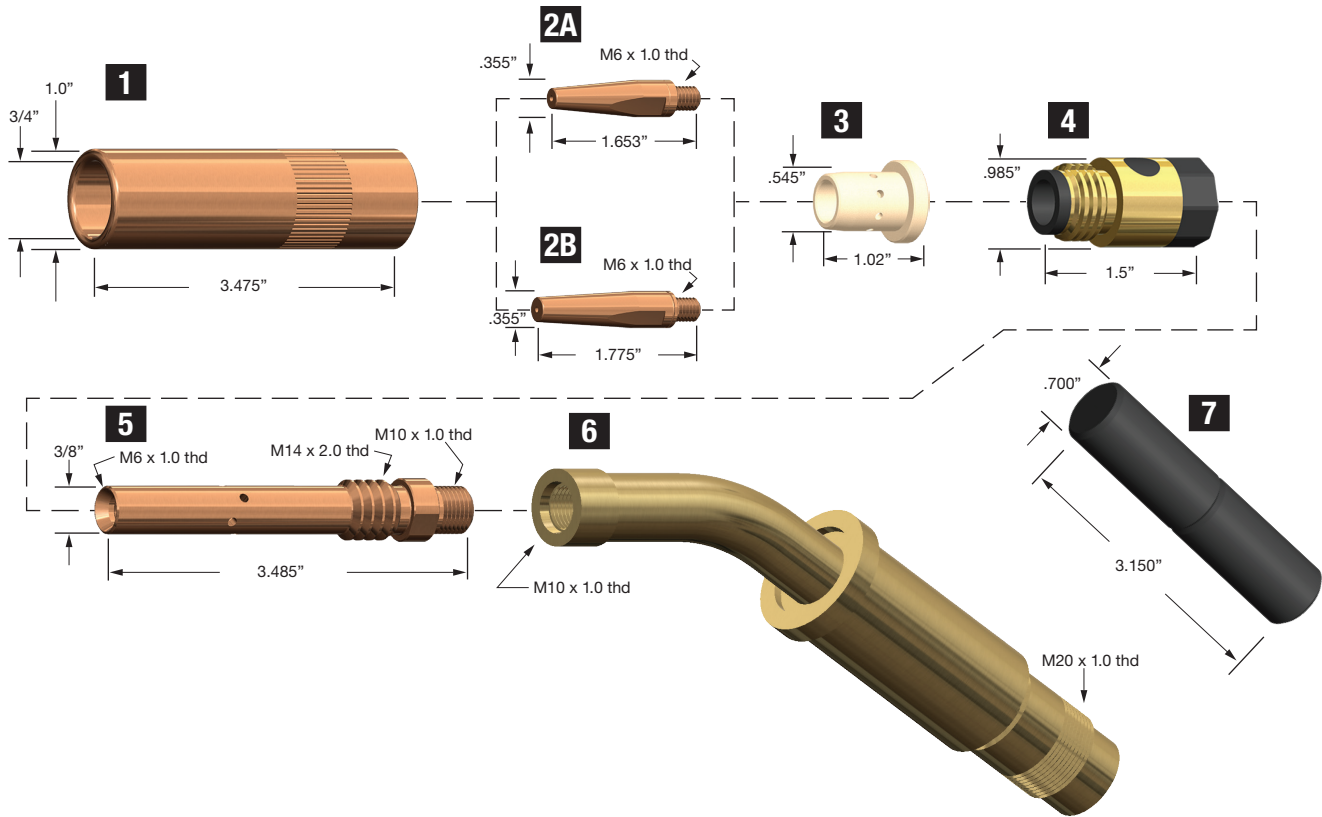
004 002	Nozzle Insulator Small
---------	------------------------

**5. TIP BODIES**

U2437H07	Tip Body
U2437H07L	Tip Body Long

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COMPATIBLE WITH RT502-L / LRT501†



**MIG**

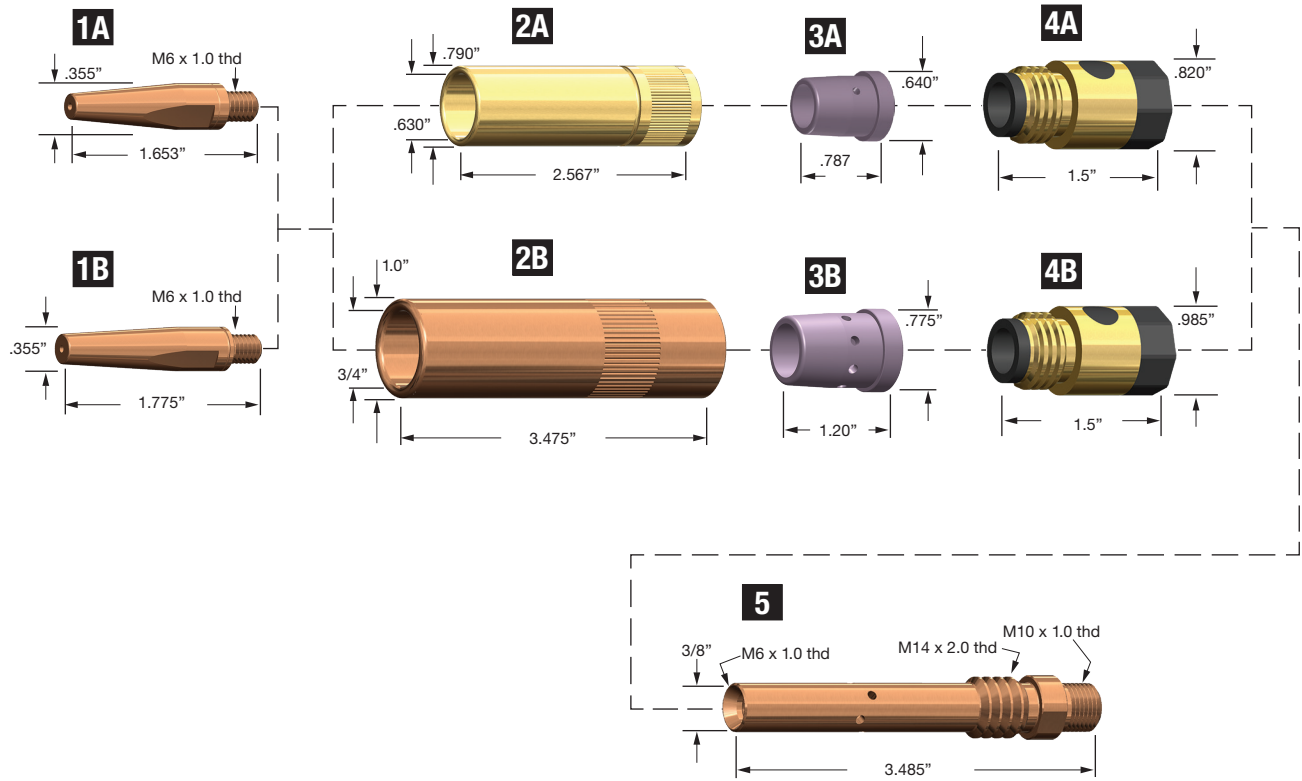
1. NOZZLES		I.D.	
861PTA1010	Nozzle	3/4" (19.1mm)	
2. CONTACT TIPS		I.D.	
A	0.8 x 42	Contact Tip	.030 (0.8mm) .037
	0.9 x 42	Contact Tip	.035 (0.9mm) .043
	1.0 x 42	Contact Tip	.040 (1.0mm) .048
	1.2 x 42	Contact Tip	.045 (1.2mm) .050
	1.6 x 42	Contact Tip	1/16" (1.6mm) .073
B	0.8 x 45	Contact Tip	.030 (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
C	0.9x42LL	CuCr	
	1.2x42LL	CuCr	
D	0.9x45LL	CuCr	
	1.0x45LL	CuCr	
	1.2x45LL	CuCr	

3. DIFFUSERS/HEADS			
861P-TA-1030	Orifice		
4. NOZZLE INSULATORS			
861P-TA-1040	Insulator Cylinder		
5. TIP BODY			
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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# 102 PANASONIC®/TOKIN® STYLE

MIG



## 1. CONTACT TIPS

				<i>I.D.</i>
A	002 003	Contact Tips	.045 (1.2mm)	.055
B	002 007	Contact Tips	.035 (0.9mm)	.043

## 2. NOZZLES

			<i>I.D.</i>
A	001 002	Nozzle	.630 (16mm)
B	001 001	Nozzle	.750 (19mm)

## 3. ORIFICE

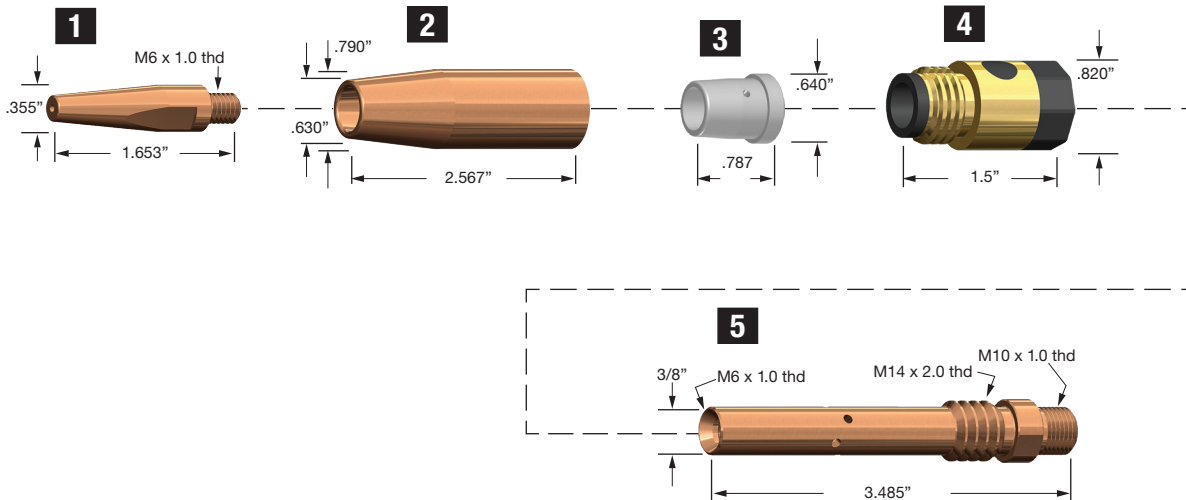
A	003 002	Orifice Ceramic - Small
B	003 001	Orifice Ceramic - Large

## 4. NOZZLE INSULATORS

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

## 5. DIFFUSER/TIP HOLDER

PL115-0134 Tip Body



**1. CONTACT TIPS** **I.D.**

L7250B01	Contact Tip	(0.8mm)	.037
L7250B02	Contact Tip	(0.9mm)	.043
L7250B03	Contact Tip	(1.0mm)	.048
L7250B04	Contact Tip	(1.2mm)	.050
L7250B05	Contact Tip		.052
L7250B06	Contact Tip	(1.6mm)	.073
L7570B02	Contact Tip - Short		.043
L7570B04	Contact Tip - Short		.050

**2. NOZZLES** **I.D.**

L6380F03	Nozzle	1/2"
L6380F04	Nozzle	

**3. ORIFICE**

U4167G02 Orifice

**4. NOZZLE INSULATORS**

TFZ-35101 Nozzle Insulator

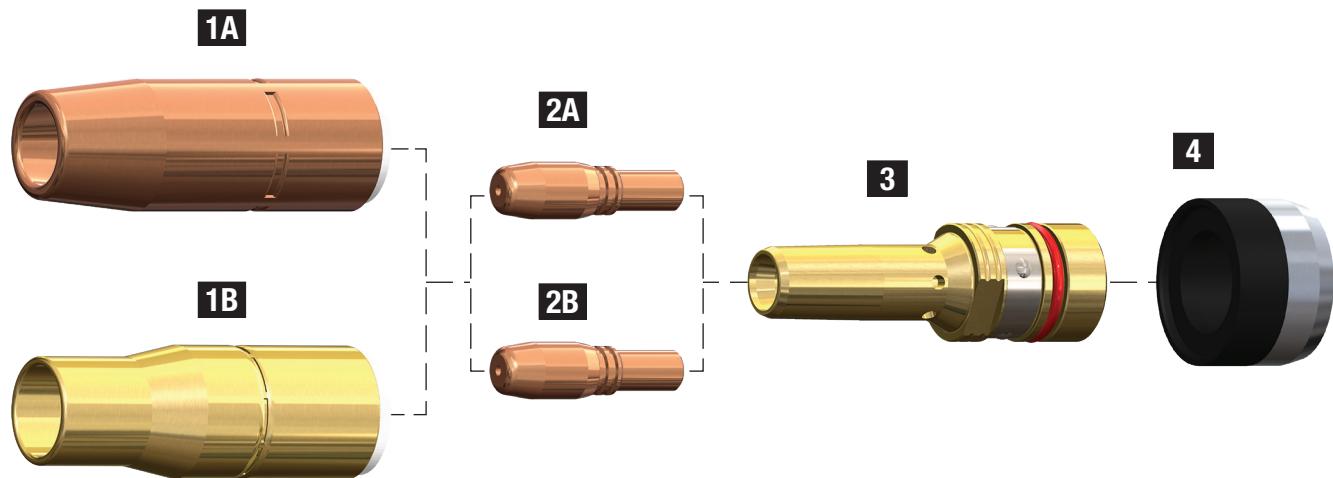
**5. DIFFUSER/TIP HOLDER**

L6380F02 Tip Body

# 104 TREGASKISS® STYLE

COMPATIBLE WITH ACCULOCK™ R, SLIP-ON†

MIG



### 1. AIR-COOLED NOZZLES

			BORE	O.D.
A	401-6-62	Nozzle Tapered 1/8" Recess Slip-On	5/8"	1.062"
	401-8-62	Nozzle Tapered 1/8" Stk-Out Slip-On	5/8"	0.938"
	401-4-62	Nozzle Tapered 1/8" Recess Slip-On	5/8"	0.938"
	401-5-62	Nozzle Tapered 1/4" Recess Slip-On	5/8"	1.062"
	401-81-62	Nozzle Tapered 1/8" Stk-Out Slip-On	5/8"	1.062"
	401-7-62	Nozzle Tapered 1/4" Recess Slip-On	5/8"	1.106"
	401-71-62	Nozzle Tapered 1/8" Recess Slip-On	5/8"	1.106"
	401-87-62	Nozzle Tapered 1/8" Stk-Out Slip-On	5/8"	1.062"
B	401-30-62	Nozzle Bottleneck 1/8" Stk-Out Slip-On	5/8"	0.938"
	401-48-62	Nozzle Bottleneck Flush Slip-On	5/8"	1.062"

### 2. CONTACT TIPS

			WIRE SIZE	I.D.
A	T-A030CH	Contact Tips Cu	0.030"	(0.8mm)
	T-A035CH	Contact Tips Cu	0.035"	(0.9mm)
	T-A039CH	Contact Tips Cu	0.039"	(1.0mm)
	T-A045CH	Contact Tips Cu	0.045"	(1.2mm)
	T-A052CH	Contact Tips Cu	0.052"	(1.3mm)
	T-A062CH	Contact Tips Cu	1/16"	(1.6mm)
	T-A072CH	Contact Tips Cu	0.070"	(1.8mm)
	T-A078CH	Contact Tips Cu	5/64"	(2.0mm)
	T-A094CH	Contact Tips Cu	3/32"	(2.4mm)
B	T-A030ZH	Contact Tips CuCrZr	0.030"	(0.8mm)
	T-A035ZH	Contact Tips CuCrZr	0.035"	(0.9mm)
	T-A039ZH	Contact Tips CuCrZr	0.039"	(1.0mm)
	T-A045ZH	Contact Tips CuCrZr	0.045"	(1.2mm)

### 3. DIFFUSER

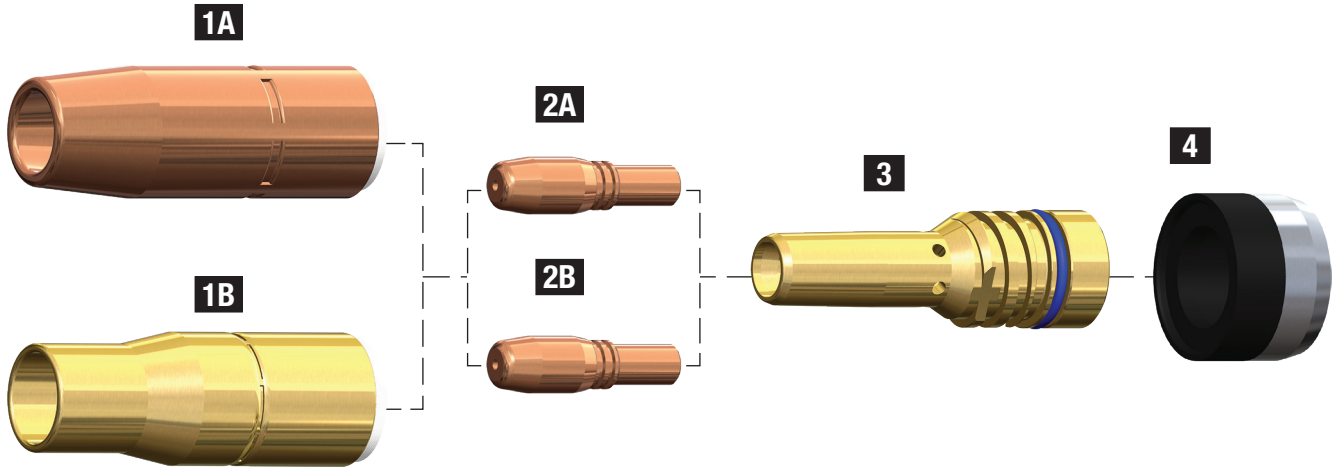
D-ATSH Gas Diffuser Slip-On

### 4. NECK INSULATOR

402-11 Insulator

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COMPATIBLE WITH ACCULOCK™ R, THREAD-ON†



1. AIR-COOLED NOZZLES			BORE	O.D.
A	401-14-62	Nozzle Tapered 1/8" Recess Threaded	5/8"	1.062"
	401-43-62	Nozzle Tapered 1/8" Recess Threaded	5/8"	0.938"
	401-18-62	Nozzle Tapered 1/8" Stk-Out Threaded	5/8"	0.938"
	401-20-62	Nozzle Tapered 1/8" Stk-Out Threaded	5/8"	1.062"
B	401-30-62T	Nozzle Bottleneck 1/8" Stk-Out Threaded	5/8"	0.938"

2. CONTACT TIPS		WIRE SIZE	I.D.
A	T-A030CH	Contact Tips Cu	0.030" (0.8mm)
	T-A035CH	Contact Tips Cu	0.035" (0.9mm)
	T-A039CH	Contact Tips Cu	0.039" (1.0mm)
	T-A045CH	Contact Tips Cu	0.045" (1.2mm)
	T-A052CH	Contact Tips Cu	0.052" (1.3mm)
	T-A062CH	Contact Tips Cu	1/16" (1.6mm)
	T-A072CH	Contact Tips Cu	0.070" (1.8mm)
	T-A078CH	Contact Tips Cu	5/64" (2.0mm)
	T-A094CH	Contact Tips Cu	3/32" (2.4mm)
B	T-A030ZH	Contact Tips CuCrZr	0.030" (0.8mm)
	T-A035ZH	Contact Tips CuCrZr	0.035" (0.9mm)
	T-A039ZH	Contact Tips CuCrZr	0.039" (1.0mm)
	T-A045ZH	Contact Tips CuCrZr	0.045" (1.2mm)
	T-A052ZH	Contact Tips CuCrZr	0.052" (1.3mm)
	T-A062ZH	Contact Tips CuCrZr	1/16" (1.6mm)

3. DIFFUSER	
D-ATTH	Gas Diffuser Threaded

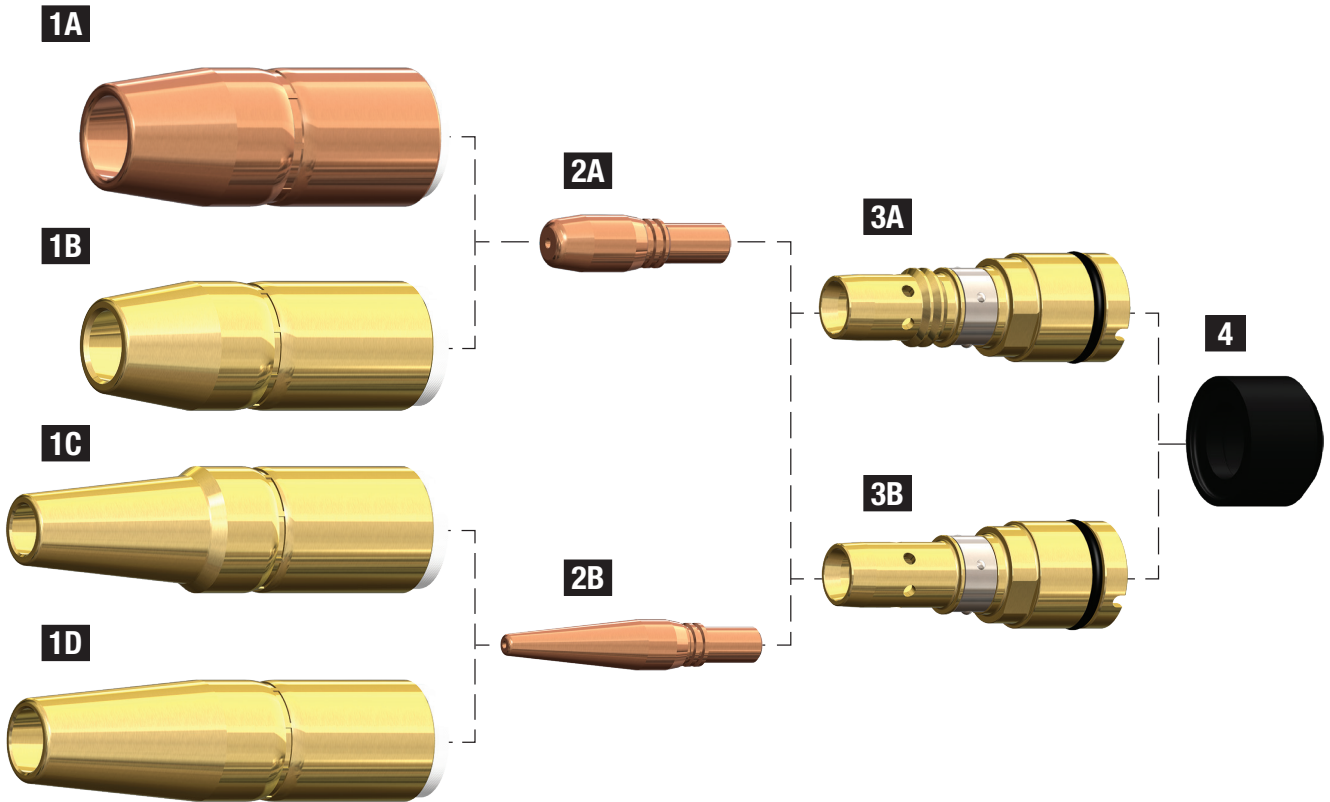
4. NECK INSULATOR	
402-11	Insulator

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# 106 TREGASKISS® STYLE

COMPATIBLE WITH ACCULOCK™ S (SMALL)†

MIG



## 1. NOZZLES

			BORE	O.D.
A	NS-A5800C	Nozzle Flush	5/8"	0.938"
	NS-A5818C	Nozzle 1/8" Recess	5/8"	0.938"
	NS-A5800B	Nozzle Flush	5/8"	0.938"
	NS-A5818B	Nozzle 1/8" Recess	5/8"	0.938"
B	NS-A1200B	Nozzle Flush	1/2"	0.938"
	NS-A1218C	Nozzle 1/8" Recess	1/2"	0.938"
	NS-A1218B	Nozzle 1/8" Recess	1/2"	0.938"
C	NST-A3800B	Nozzle Flush	3/8"	0.938"
	NST-A3818B	Nozzle 1/8" Recess	3/8"	0.938"
	NST-A38XTB	Nozzle 1/8" Extension	3/8"	0.938"
D	NST-A1218B	Nozzle 1/8" Recess	1/2"	0.938"

## 2. CONTACT TIPS

			WIRE SIZE	O.D.
A	T-A023CH	Contact Tip Cu	0.023" (0.6mm)	0.350"
	T-A030CH	Contact Tip Cu	0.030" (0.8mm)	0.350"
	T-A035CH	Contact Tip Cu	0.035" (0.9mm)	0.350"
	T-A039CH	Contact Tip Cu	0.039" (1.0mm)	0.350"
	T-A045CH	Contact Tip Cu	0.045" (1.2mm)	0.350"
	T-A052CH	Contact Tip Cu	0.052" (1.3mm)	0.350"
	T-A062CH	Contact Tip Cu	1/16" (1.6mm)	0.350"
	T-A072CH	Contact Tip Cu	0.070" (1.8mm)	0.350"
	T-A078CH	Contact Tip Cu	5/64" (2.0mm)	0.350"

## 2. CONTACT TIPS (CONTINUED)

			WIRE SIZE	O.D.
A	T-A094CH	Contact Tip Cu	3/32" (2.4mm)	0.350"
	T-A109CH	Contact Tip Cu	7/64" (2.8mm)	0.350"
	T-A125CH	Contact Tip Cu	1/8" (3.2mm)	0.350"
B	TT-A023CH	Contact Tip Cu	0.023" (0.6mm)	0.350"
	TT-A030CH	Contact Tip Cu	0.030" (0.8mm)	0.350"
	TT-A035CH	Contact Tip Cu	0.035" (0.9mm)	0.350"
	TT-A039CH	Contact Tip Cu	0.039" (1.0mm)	0.350"
	TT-A045CH	Contact Tip Cu	0.045" (1.2mm)	0.350"
	TT-A052CH	Contact Tip Cu	0.052" (1.3mm)	0.350"
	TT-A062CH	Contact Tip Cu	1/16" (1.6mm)	0.350"

## 3. DIFFUSERS SMALL

A	DS-A1	Diffuser Threaded S liner
	DS-A1-C	Diffuser Threaded Conventional liner
B	DS-A2	Diffuser Slip-On S liner
	DS-A2-C	Diffuser Slip-On Conventional liner

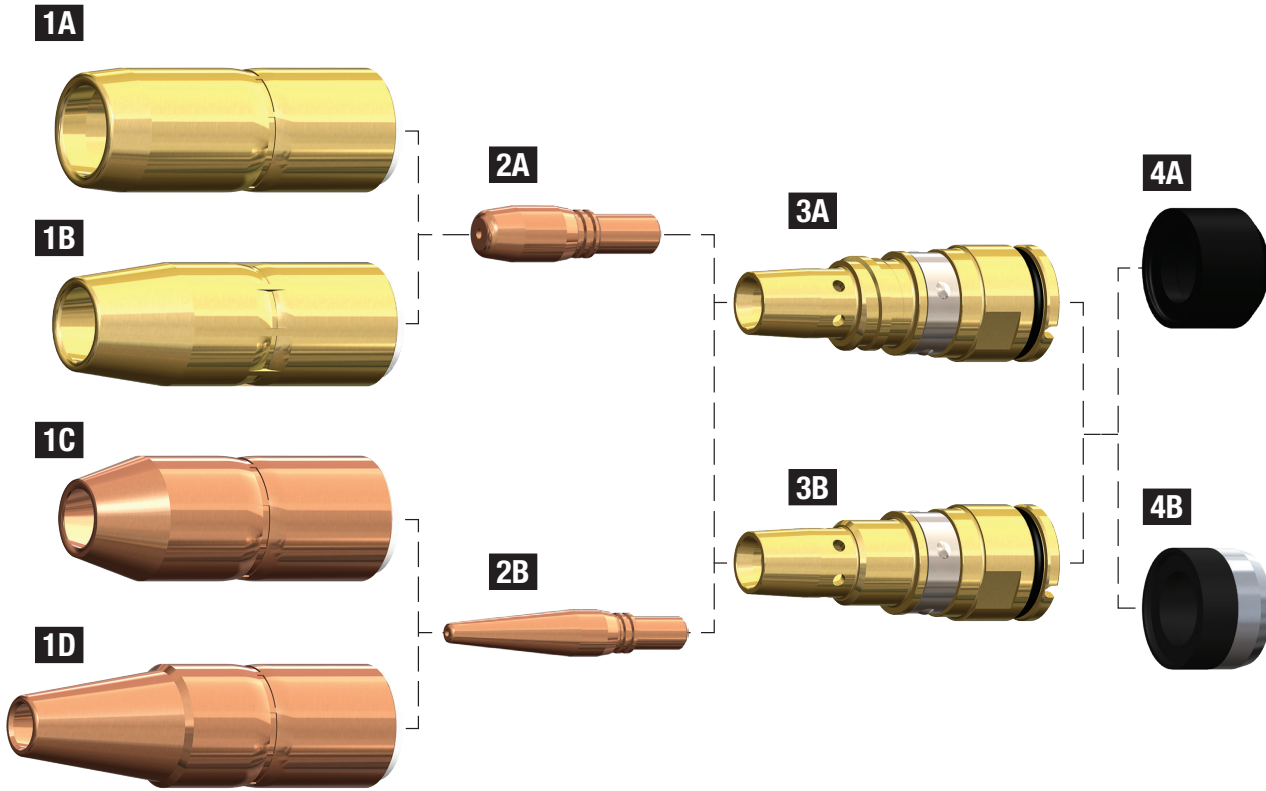
## 4. INSULATOR SMALL

4623R	Insulator
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COMPATIBLE WITH ACCULOCK™ S (LARGE)†



**1. NOZZLES**

			<b>BORE</b>	<b>O.D.</b>
A	N-A3400C	Nozzle Flush	3/4"	1.062"
	N-A3418C	Nozzle 1/8" Recess	3/4"	1.062"
	N-A3414C	Nozzle 1/4" Recess	3/4"	1.062"
	N-A3418B	Nozzle 1/8" Recess	3/4"	1.062"
	N-A3414B	Nozzle 1/4" Recess	3/4"	1.062"
B	N-A5800C	Nozzle Flush	5/8"	1.062"
	N-A5818C	Nozzle 1/8" Recess	5/8"	1.062"
	N-A5814C	Nozzle 1/4" Recess	5/8"	1.062"
	N-A5818B	Nozzle 1/8" Recess	5/8"	1.062"
	N-A5814B	Nozzle 1/4" Recess	5/8"	1.062"
C	N-A1218C	Nozzle 1/8" Recess	1/2"	1.062"
	NT-A3800C	Nozzle Flush	3/8"	1.062"

**2. CONTACT TIPS**

		<b>WIRE SIZE</b>	<b>O.D.</b>
A	T-A023CH	Contact Tip Cu 0.023" (0.6mm)	0.350"
	T-A030CH	Contact Tip Cu 0.030" (0.8mm)	0.350"
	T-A035CH	Contact Tip Cu 0.035" (0.9mm)	0.350"
	T-A039CH	Contact Tip Cu 0.039" (1.0mm)	0.350"
	T-A045CH	Contact Tip Cu 0.045" (1.2mm)	0.350"
	T-A052CH	Contact Tip Cu 0.052" (1.3mm)	0.350"
	T-A062CH	Contact Tip Cu 1/16" (1.6mm)	0.350"
	T-A072CH	Contact Tip Cu 0.070" (1.8mm)	0.350"

**2. CONTACT TIPS (CONTINUED)**

		<b>WIRE SIZE</b>	<b>O.D.</b>
A	T-A078CH	Contact Tip Cu 5/64" (2.0mm)	0.350"
	T-A094CH	Contact Tip Cu 3/32" (2.4mm)	0.350"
	T-A109CH	Contact Tip Cu 7/64" (2.8mm)	0.350"
	T-A125CH	Contact Tip Cu 1/8" (3.2mm)	0.350"
	B	TT-A023CH	Contact Tip Cu 0.023" (0.6mm)
	TT-A030CH	Contact Tip Cu 0.030" (0.8mm)	0.350"
	TT-A035CH	Contact Tip Cu 0.035" (0.9mm)	0.350"
	TT-A039CH	Contact Tip Cu 0.039" (1.0mm)	0.350"
	TT-A045CH	Contact Tip Cu 0.045" (1.2mm)	0.350"
	TT-A052CH	Contact Tip Cu 0.052" (1.3mm)	0.350"
	TT-A062CH	Contact Tip Cu 1/16" (1.6mm)	0.350"

**3. DIFFUSERS LARGE**

A	D-A1	Diffuser Threaded S liner
	D-A1-C	Diffuser Threaded Conventional liner
B	D-A2	Diffuser Slip-On S liner
	D-A2-C	Diffuser Slip-On Conventional liner

**4. INSULATOR LARGE**

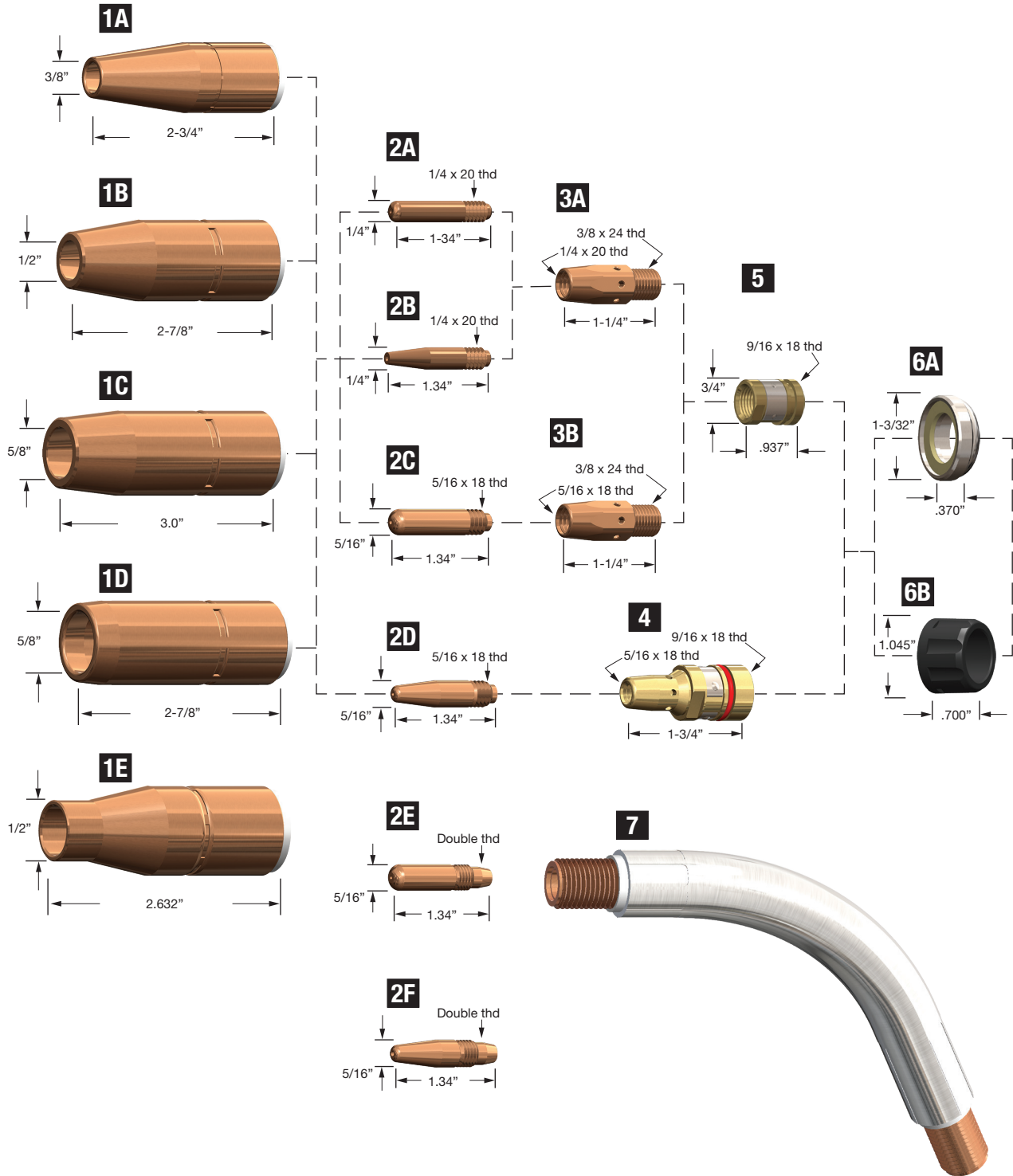
A	4623R	Insulator
B	402-11	Insulator

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# 108 TREGASKISS® STYLE

COMPATIBLE WITH TOUGH GUN 300, 400, 500†

MIG



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**COMPATIBLE WITH TOUGH GUN 300, 400, 500†**
**1. NOZZLES - INSULATED**

			<b>I.D.</b>
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**

			<b>I.D.</b>
A	403-23	Cont Tip Std.	.023 (0.6mm) .028
	403-30	Cont Tip Std.	.030 (0.8mm) .037
	403-35	Cont Tip Std.	.035 (0.9mm) .043
	403-1.0	Cont Tip Std.	.040 (1.0mm) .048
	403-45	Cont Tip Std.	.045 (1.2mm) .055
	403-52	Cont Tip Std.	.052 (1.3mm) .063
	403-116	Cont Tip Std.	1/16" (1.6mm) .073
B	403-2-23	Cont Tip Tapered	.023 (0.6mm) .028
	403-2-30	Cont Tip Tapered	.030 (0.8mm) .037
	403-2-35	Cont Tip Tapered	.035 (0.9mm) .043
	403-2-45	Cont Tip Tapered	.045 (1.2mm) .055
	403-2-52	Cont Tip Tapered	.052 (1.3mm) .063
C	403-1-30	Cont Tip H.D.	.030 (0.8mm) .037
	403-1-35	Cont Tip H.D.	.035 (0.9mm) .043
	403-1-45	Cont Tip H.D.	.045 (1.2mm) .055
	403-1-364	Cont Tip H.D.	3/64" (1.2mm) .059
	403-1-52	Cont Tip H.D.	.052 (1.3mm) .063
	403-1-116	Cont Tip H.D.	1/16" (1.6mm) .073
	403-1-564	Cont Tip H.D.	5/64" (2.0mm) .093
	403-1-332	Cont Tip H.D.	3/32" (2.4mm) .110
	403-7-35	Cont Tip Long Life	.035 (0.9mm) .040
	403-7-45	Cont Tip Long Life	.045 (1.2mm) .050
	403-7-52	Cont Tip Long Life	.052 (1.3mm) .059
	403-7-116	Cont Tip Long Life	1/16" (1.6mm) .070
	403-7-1.0	Cont Tip Long Life	.040 (1.0mm) .045
D	403-3-30	Cont Tip H.D. Tap	.030 (0.8mm) .037
	403-3-35	Cont Tip H.D. Tap	.035 (0.9mm) .043
	403-3-40	Cont Tip H.D. Tap	.040 (1.0mm) .048
	403-3-45	Cont Tip H.D. Tap	.045 (1.2mm) .055
	403-3-52	Cont Tip H.D. Tap	.052 (1.3mm) .063
	403-3-116	Cont Tip H.D. Tap	1/16" (1.6mm) .070
	403-7-35T	Tip Tapered Long Life	.035 (0.9mm) .043
	403-7-45T	Tip Tapered Long Life	.045 (1.2mm) .055
	403-7-52T	Tip Tapered Long Life	.052 (1.3mm) .063
E	403-20-30	Cont Tip Dbl thd	.030 (0.8mm) .037
	403-20-35	Cont Tip Dbl thd	.035 (0.9mm) .043
	403-20-1.0	Cont Tip Dbl thd	.040 (1.0mm) .048
	403-20-45	Cont Tip Dbl thd	.045 (1.2mm) .055
	403-20-364	Cont Tip Dbl thd	3/64" (1.2mm) .059
	403-20-52	Cont Tip Dbl thd	.052 (1.3mm) .063

**2. CONTACT TIPS (CONTINUED)**

			<b>I.D.</b>
	403-20-116	Cont Tip Dbl thd	1/16" (1.6mm) .073
	403-20-564	Cont Tip Dbl thd	5/64" (2.0mm) .093
	403-27-35	Cont Tip Dbl thd Lng Life	.035 (0.9mm) .043
	403-27-45	Cont Tip Dbl thd Lng Life	.045 (1.2mm) .055
	403-27-52	Cont Tip Dbl thd Lng Life	.052 (1.3mm) .062
F	403-21-35	Cont Tip Dbl thd Tprd	.035 (0.9mm) .043
	403-21-45	Cont Tip Dbl thd Tprd	.045 (1.2mm) .055

**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
	404-13	Retaining Head H.D. Straight Holes
	404-20	Diffuser Manual
	404-26	Diffuser Dual Tapered Manual
	404-30	Diffuser Robotic
	404-32	Diffuser Dual Tapered Robotic
	404-52	Diffuser Dual Tapered Thread
	404-55	Retaining Head

**5. NOZZLE RETAINERS**

	402-3	Nozzle Retainer
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**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

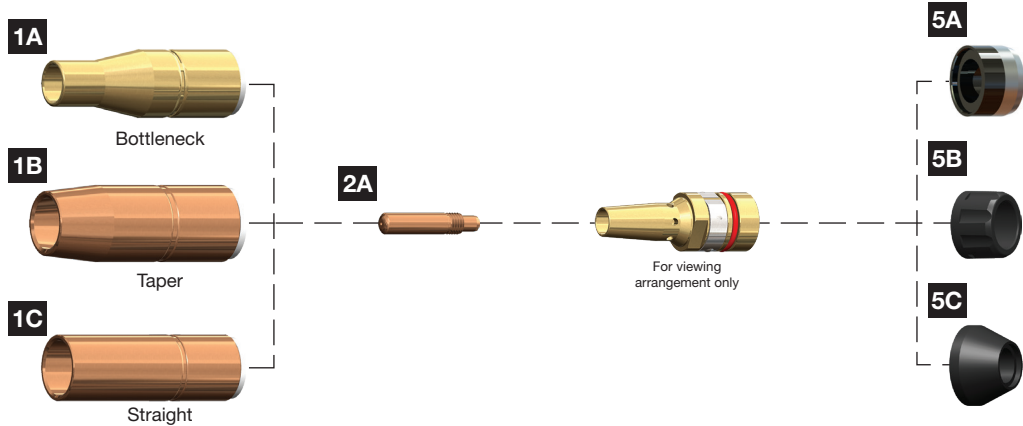
**LINERS (NOT SHOWN)**

			<b>I.D.</b>		<b>O.D.</b>
	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

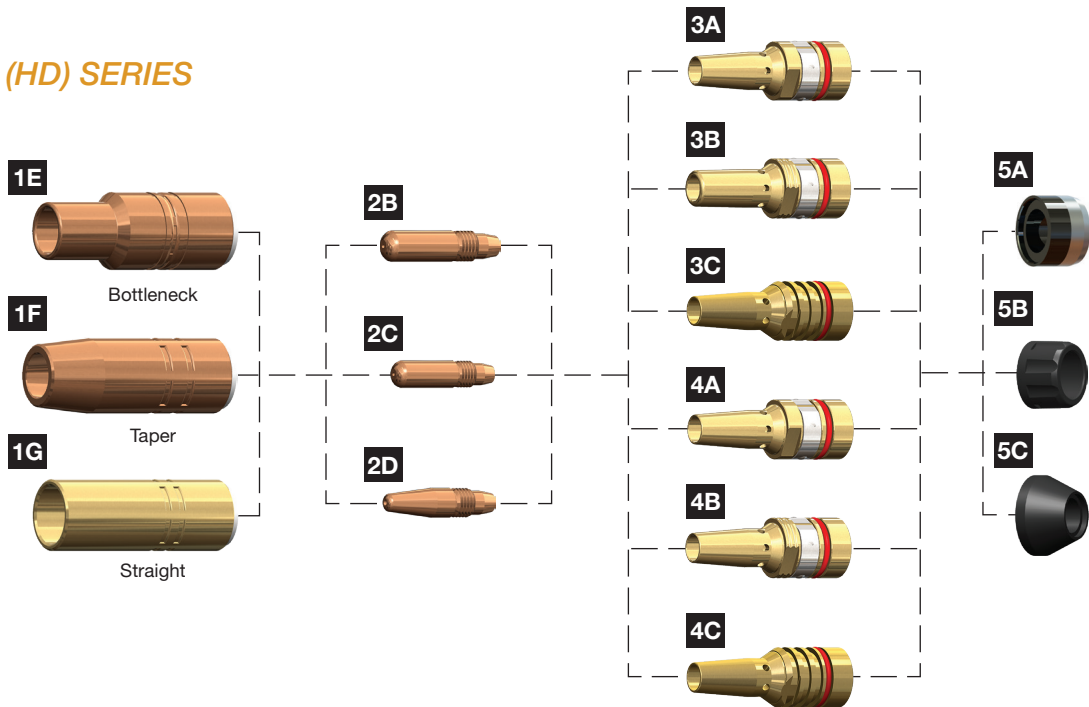
# 110 TREGASKISS® STYLE

COMPATIBLE WITH TOUGH LOCK®†

## STANDARD DUTY (SD) SERIES



## HEAVY DUTY (HD) SERIES



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COMPATIBLE WITH TOUGH LOCK®†

## 1. NOZZLES

I.D. O.D.

### STANDARD DUTY AIR-COOLED (SLIP-ON)

A	401-42-50	use 63-2950-B	Brass	1/8" Recess	1/2"	0.938"
	401-48-50	use 64-2950	Brass	1/8" Stick-out	1/2"	0.938"
B	401-4-38	use 63-2138	Copper	Flush 3/8"		0.938"
	401-44-62	use 63-2762	Copper	1/4" Stick-out	5/8"	0.938"
	401-4-50	use 63-2150	Copper	1/8" Recess	1/2"	0.938"
	401-4-62	use 63-2162	Copper	1/8" Recess	5/8"	0.938"
	401-8-62	use 63-2662	Copper	1/8" Stick-out	5/8"	0.938"
	401-8-62	use 63-2662	Copper	1/8" Stick-out	5/8"	0.938"
C	401-4-75	use 63-2175	Copper	1/8" Recess	3/4"	0.938"

### STANDARD DUTY AIR-COOLED (THREAD-ON)

D	401-18-62	use 63-2662-T	Copper	1/8" Stick-out	5/8"	0.938"
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### HEAVY DUTY (HD) AIR-COOLED (SLIP-ON)

E	401-48-62	use 64-2962	Copper	Flush	5/8"	1.062"
	401-49-62	use 64-2962-S	Copper	1/8" Stick-out	5/8"	1.062"
F	401-5-62	use 64-2562	Copper	1/4" Recess	5/8"	1.062"
	401-5-75	use 64-2575	Copper	1/4" Recess	3/4"	1.062"
	401-6-50	use 65-2550	Copper	1/8" Recess	1/2"	1.062"
	401-6-62	use 65-2562	Copper	1/8" Recess	5/8"	1.062"
	401-6-75	use 65-2575	Copper	1/8" Recess	3/4"	1.062"
	401-71-62	use 63-2362	Brass	1/8" Recess	5/8"	1.106"
	401-7-62		Brass	1/4" Recess	3/4"	1.106"
	401-7-75	use 65-2375	Brass	1/8" Recess	5/8"	1.106"
	401-81-62	use 65-2662	Copper	1/8" Stick-out	5/8"	1.062"
	401-87-62	use 65-2362	Brass	1/8" Stick-out	5/8"	1.062"
	401-88-62	use 65-2862	Brass	Flush	5/8"	1.106"
G	401-7-87	use 64-2387	Brass	1/4" Recess	7/8"	1.106"

### HEAVY DUTY AIR-COOLED (THREAD-ON)

H	401-18-62	use 65-2562-T	Copper	1/8" Recess	5/8"	1.062"
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### HEAVY DUTY WATER-COOLED

I	601-5-62	Nickel-Plated Bronze	1/4" Recess	5/8"	1.225"
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All nozzles come in packages of 2.

## 2. CONTACT TIPS

I.D.

### STANDARD DUTY (SD) TIPS

A	403-14-30	.030" (0.8 mm)	.037"
	403-14-35	.035" (0.9 mm)	.043"

### EXTENDED LIFE TIPS (CHROME ZIRCONIUM)

B	403-27-30	.030" (0.8 mm)	.037"
	403-27-35	.035" (0.9 mm)	.040"
	403-27-45	.045" (1.2 mm)	.050"
	403-27-52	.052" (1.3 mm)	.059"
	403-27-116	1/16" (1.6 mm)	.070"

### HEAVY DUTY (HD) TIPS

C	403-20-30	.030" (0.8 mm)	.037"
	403-20-35	.035" (0.9 mm)	.043"
	403-20-1.0	.040" (1.0 mm)	.048"
	403-20-45	.045" (1.2 mm)	.055"
	403-20-364	3/64" (1.2 mm)	.060"
	403-20-52	.052" (1.3 mm)	.063"
	403-20-116	1/16" (1.6 mm)	.073"
	403-20-564	5/64" (2.0 mm)	.093"
	403-20-332	3/32" (2.4 mm)	.110"

CONTACT TIPS CONTINUED ON RIGHT

## 2. CONTACT TIPS (CONTINUED)

### HD TAPERED TIPS

D	403-21-30	.030", Tapered (0.8 mm)	.037"
	403-21-35	.035", Tapered (0.9 mm)	.043"
	403-21-45	.045", Tapered (1.2 mm)	.055"
	403-21-52	.052", Tapered (1.3 mm)	.063"

All contact tips come in packages of 10.

## 3. RETAINING HEADS/DIFFUSERS SEMI-AUTOMATIC

A	404-20	Heavy Duty	Single Taper
B	404-26	Heavy Duty	Dual Taper
C	404-52	Heavy Duty	Threaded

## 4. RETAINING HEADS/DIFFUSERS ROBOTIC

A	404-30	Heavy Duty	Single Taper
B	404-32	Heavy Duty	Dual Taper
C	404-52	Heavy Duty	Threaded

All heads/diffusers come in packages of 5.

## 5. NECK INSULATORS

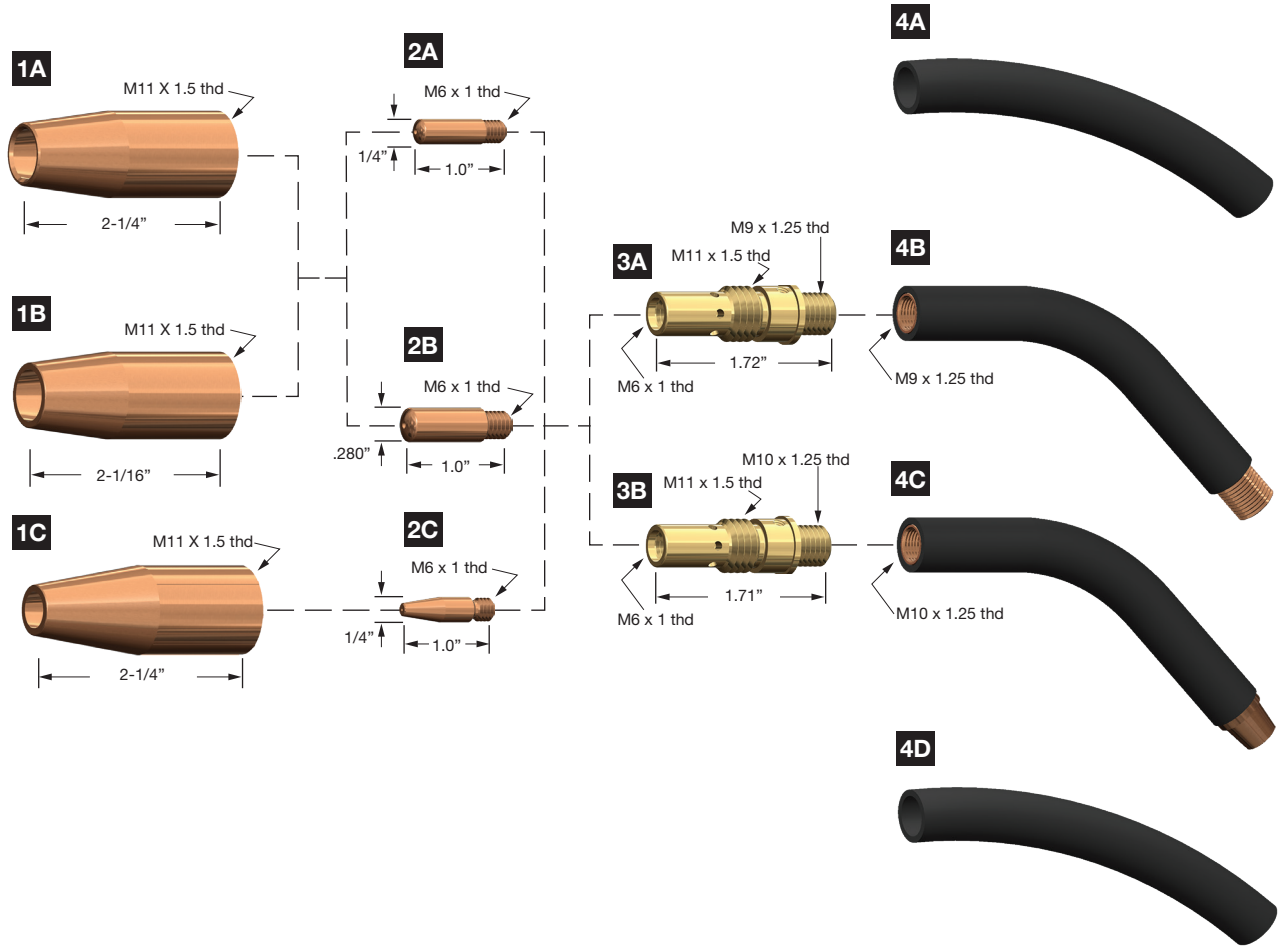
A	402-11	use 63-6202-HD	Neck Insulator
B	402-7	use 63-6103	Neck Insulator
C	10012		Neck Insulator

MIG

# 112 TWECO® STYLE

COMPATIBLE WITH # 1†

MIG



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COMPATIBLE WITH # 1†

**MIG**

<b>1. NOZZLES</b>		<b>I.D.</b>
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)

<b>2. CONTACT TIPS</b>		<b>I.D.</b>
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	11H-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

<b>3. GAS DIFFUSERS</b>	
A	35-50 Gas Diffuser (Mini-Mig)
B	51 Gas Diffuser (#1)
	51-23 Gas Diffuser (#1) .023

<b>4. GOOSENECKS &amp; INSULATION</b>	
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)

<b>LINERS (NOT SHOWN)</b>		<b>I.D.</b>	<b>O.D.</b>
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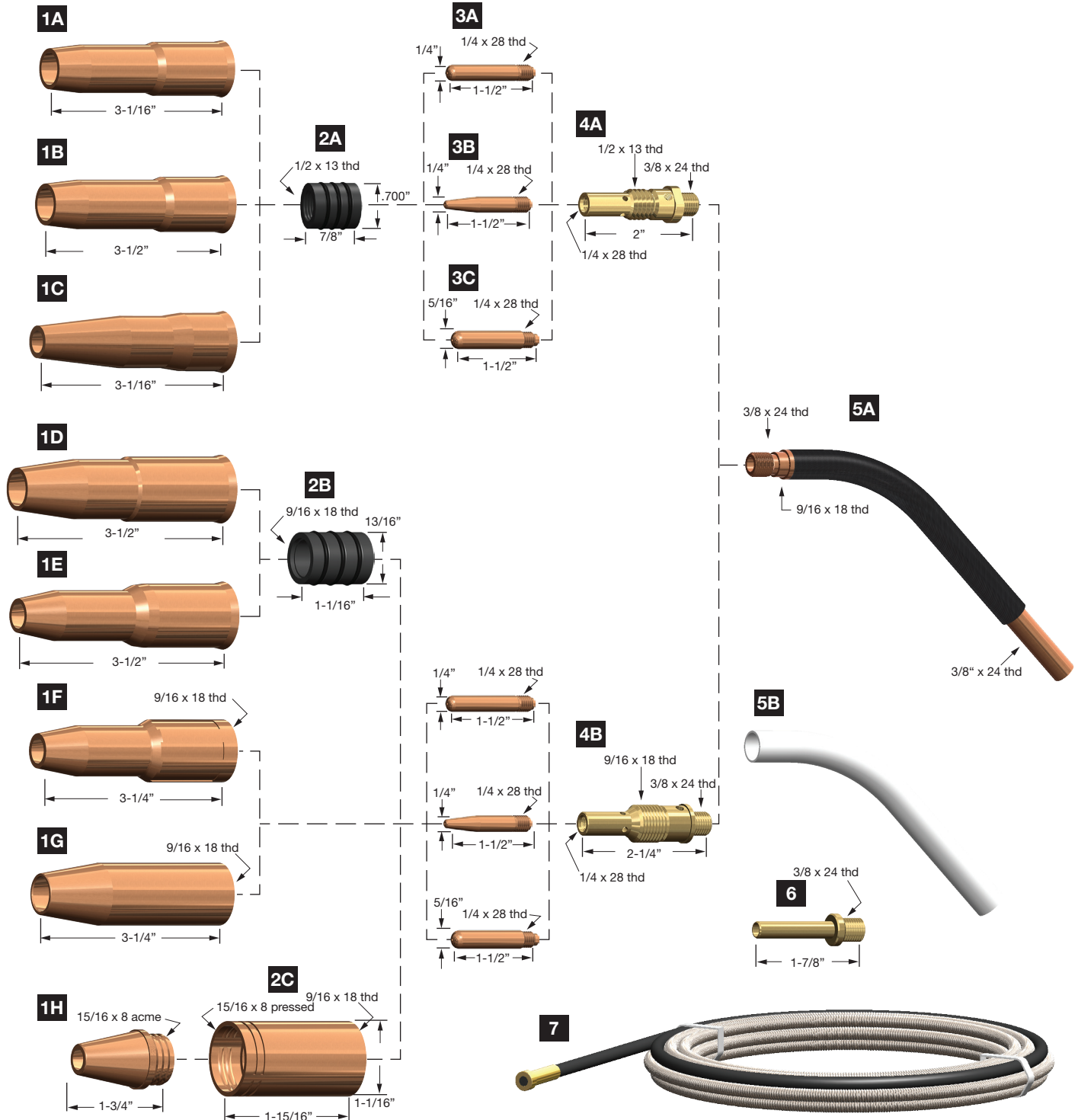
<b>MINI-MIG</b>			
A	23-40-15 Liner Assy.	15' .023	.036 .123
	35-40-15 Liner Assy.	15' .030-.035	.050 .134
	35-40-20 Liner Assy.	20' .030-.035	.050 .134
	35TF-40-10 Liner Assy. Teflon™	10' .035	.066 .148
	35TF-40-15 Liner Assy. Teflon™	15' .035	.066 .148
	45-40-15 Liner Assy.	15' .035	.063 .138
	45TF-40-10 Liner Assy. Teflon™	10' .045	.079 .156
	45TF-40-15 Liner Assy. Teflon™	15' .045	.079 .156
<b>#1</b>			
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

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# 114 **TWECO® T-200®** STYLE

# 2 COMPATIBLE WITH TWECO 200AMP CONSUMABLES†

MIG



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**# 2 COMPATIBLE WITH TWECO 200AMP CONSUMABLES†**
**1. NOZZLES**

			<b>I.D.</b>
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)
	22-62-SS	Nozzle Adj. Short Stop	5/8" (15.9mm)
C	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)
	23T-37	Nozzle Insulated Tapered	3/8" (09.5mm)
G	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)
	23T-37-F	Nozzle Insul. Tapered Flush	3/8" (09.5mm)
H	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 Thd Nozzles
D	34FN	Insulator (#2,3,4) for Fine Thd Nozzles

**3. CONTACT TIPS**

			<b>I.D.</b>
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) .04
	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 Tprd	.023 (0.6mm) .028
	14T-30	Contact Tip Tprd	.030 (0.8mm) .037
	14T-35	Contact Tip Tprd	.035 (0.9mm) .043
	14T-40	Contact Tip Tprd	.040 (1.0mm) .048
	14T-45	Contact Tip Tprd	.045 (1.2mm) .055
C	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) .05
	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. GOOSENECKS**

ADD J TO THE PART NUMBER FOR JACKETED GOOSENECKS (I.E. 64J-60)

**STANDARD GOOSENECK ON MIG GUNS IS METAL JACKETED**

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

**6. GAS HOSE NIPPLE**

	62N	Nipple
	64N	Nipple

**7. LINERS**

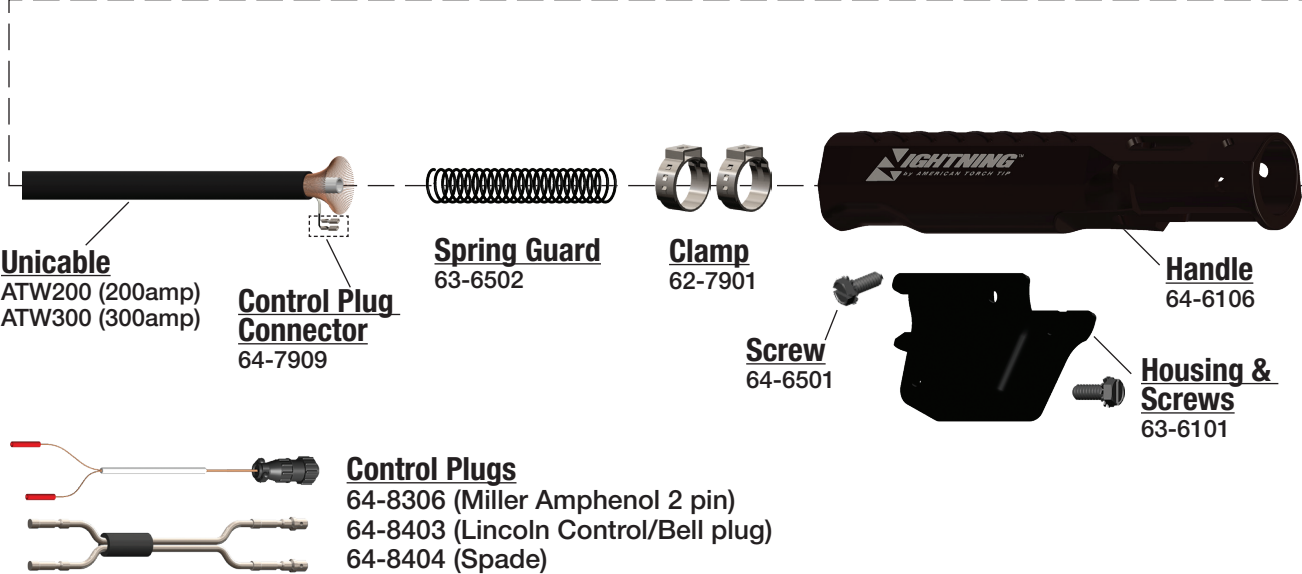
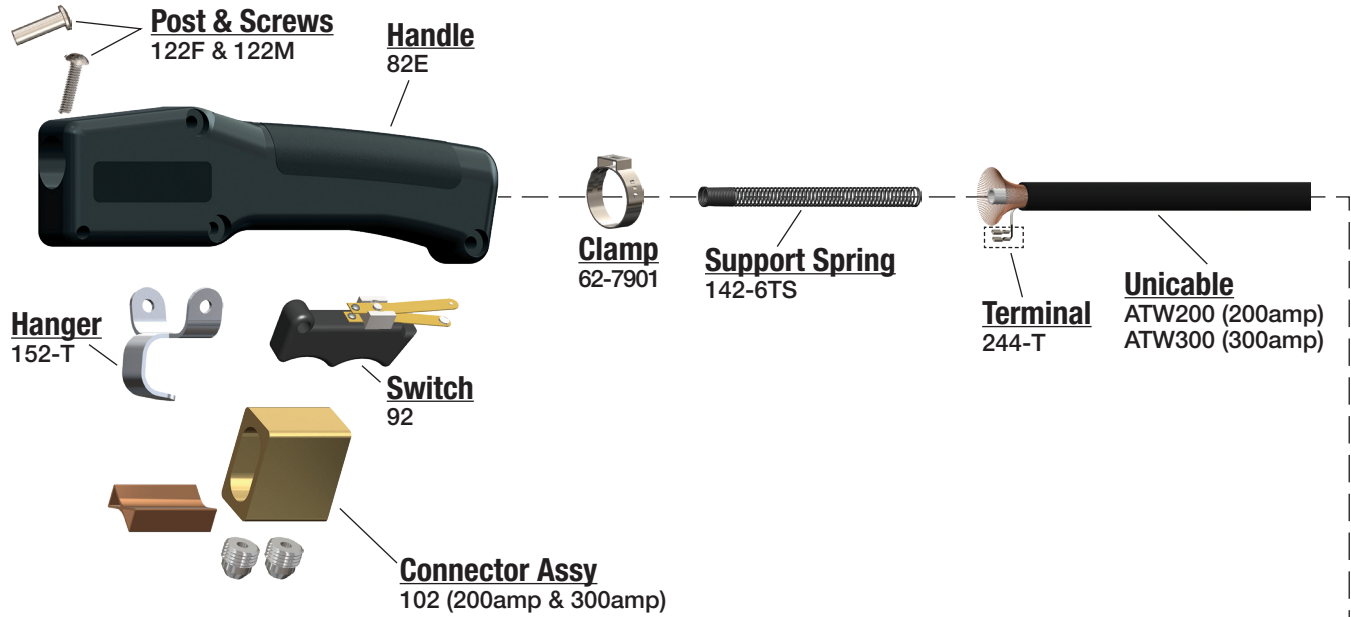
			<b>I.D.</b>	<b>O.D.</b>
	44-116-15	Liner Assy.	15' 1/16"	.076 .188
	44-116-25	Liner Assy.	25' 1/16"	.076 .188
	44-3545-15	Liner Assy.	15' .035-.045	.066 .188
	44-3545-25	Liner Assy.	25' .035-.045	.066 .188
	44-564-15	Liner Assy.	15' 5/64"	.098 .188
	44-564-25	Liner Assy.	25' 5/64"	.098 .188
	44N-116-15	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

**MIG**

# 116 TWECO® T-200/300 MIG GUN® STYLE

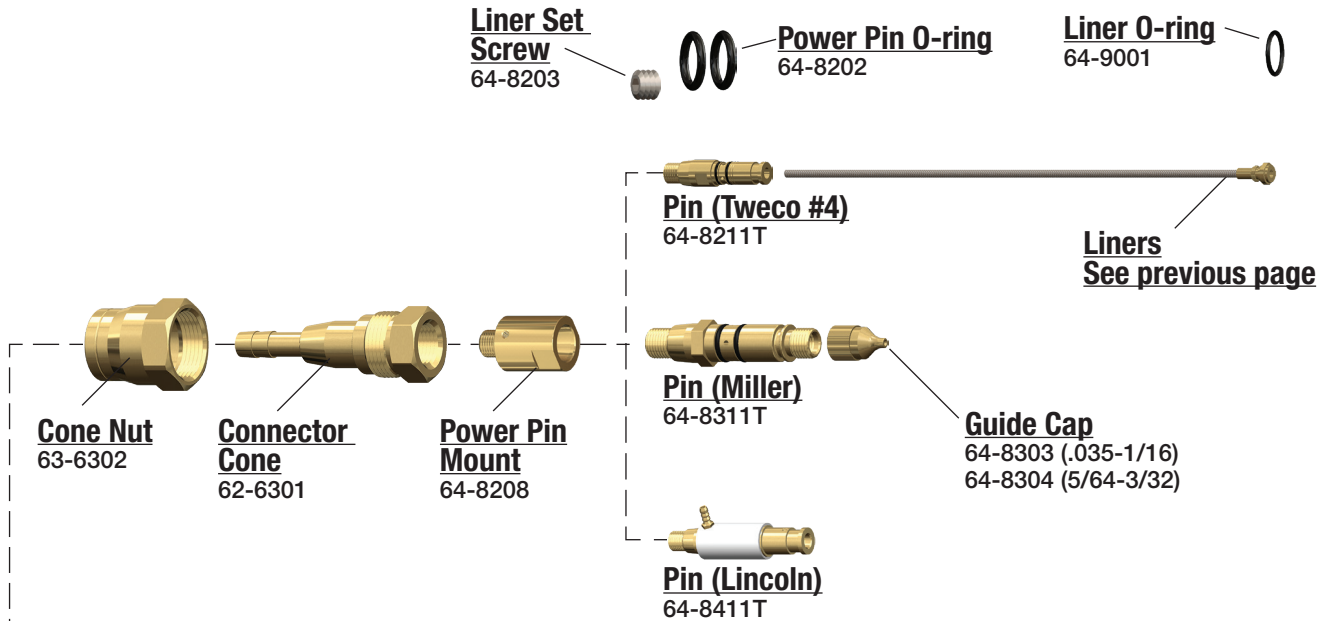
COMPATIBLE WITH TWECO 200/300 AMP REPLACEMENT PARTS†

MIG



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COMPATIBLE WITH TWECO 200/300 AMP REPLACEMENT PARTS†



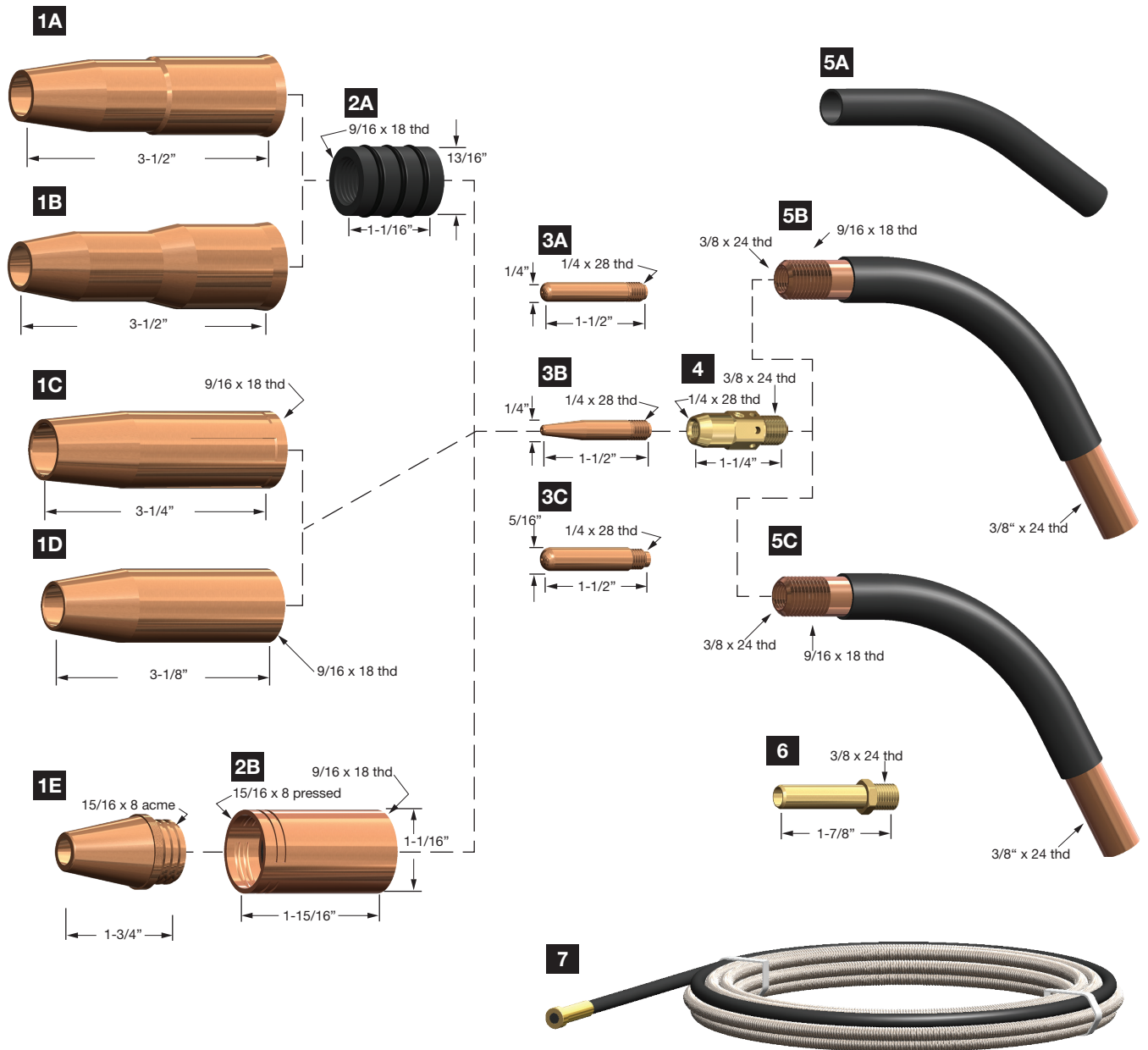
**MIG**

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# 118 TWECO® T-400 MIG GUN® STYLE

COMPATIBLE WITH TWECO 400AMP†

MIG



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COMPATIBLE WITH TWECO 400AMP†

**MIG**
**1. NOZZLES**

			<b>I.D.</b>
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**

			<b>I.D.</b>
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
+ Available with spatter resis			
B	14T-23	Contact Tip Tprd	.023 (0.6mm) .028
	14T-30	Contact Tip Tprd	.030 (0.8mm) .037
	14T-35	Contact Tip Tprd	.035 (0.9mm) .043
	14T-40	Contact Tip Tprd	.040 (1.0mm) .048
	14T-45	Contact Tip Tprd	.045 (1.2mm) .055
	14T-52	Contact Tip Tprd	.052 (1.3mm) .063
	14T-116	Contact Tip Tprd	1/16" (1.6mm) .073

**3. CONTACT TIPS (CONTINUED)**

			<b>I.D.</b>
C	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
	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
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**5. GOOSENECKS**

ADD J TO THE PART NUMBER FOR JACKETED GOOSENECKS (I.E. 64J-60)

STANDARD GOOSENECK ON MIG GUNS IS METAL JACKETED

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
	63J-45	Jacketed Goose Neck

**6. GAS HOSE NIPPLE**

64N nipple
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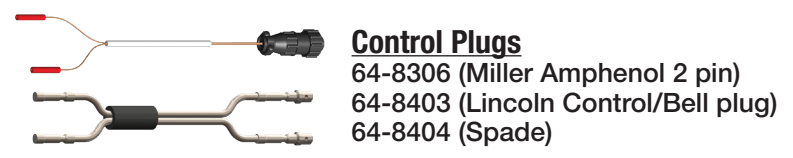
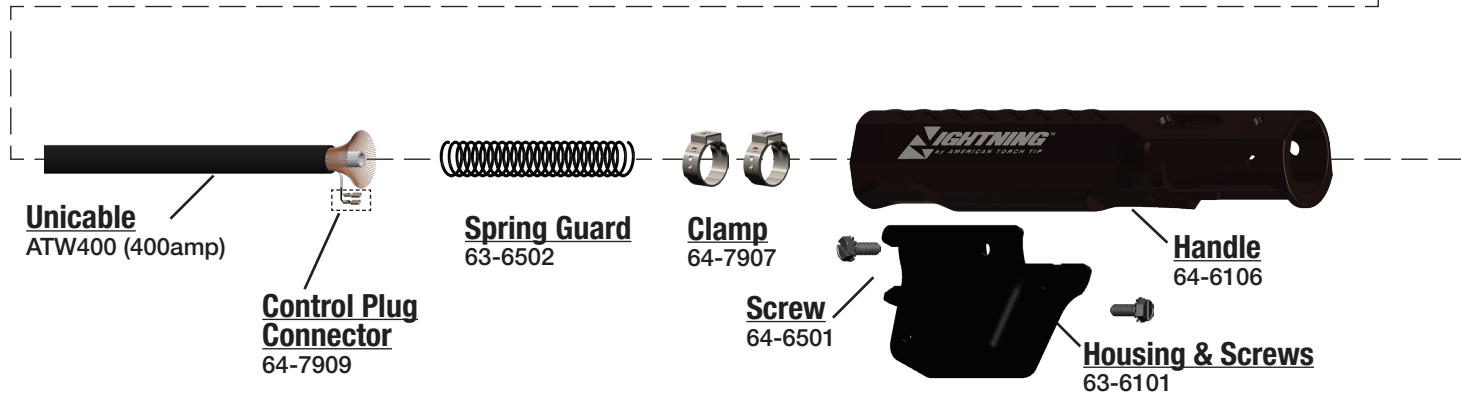
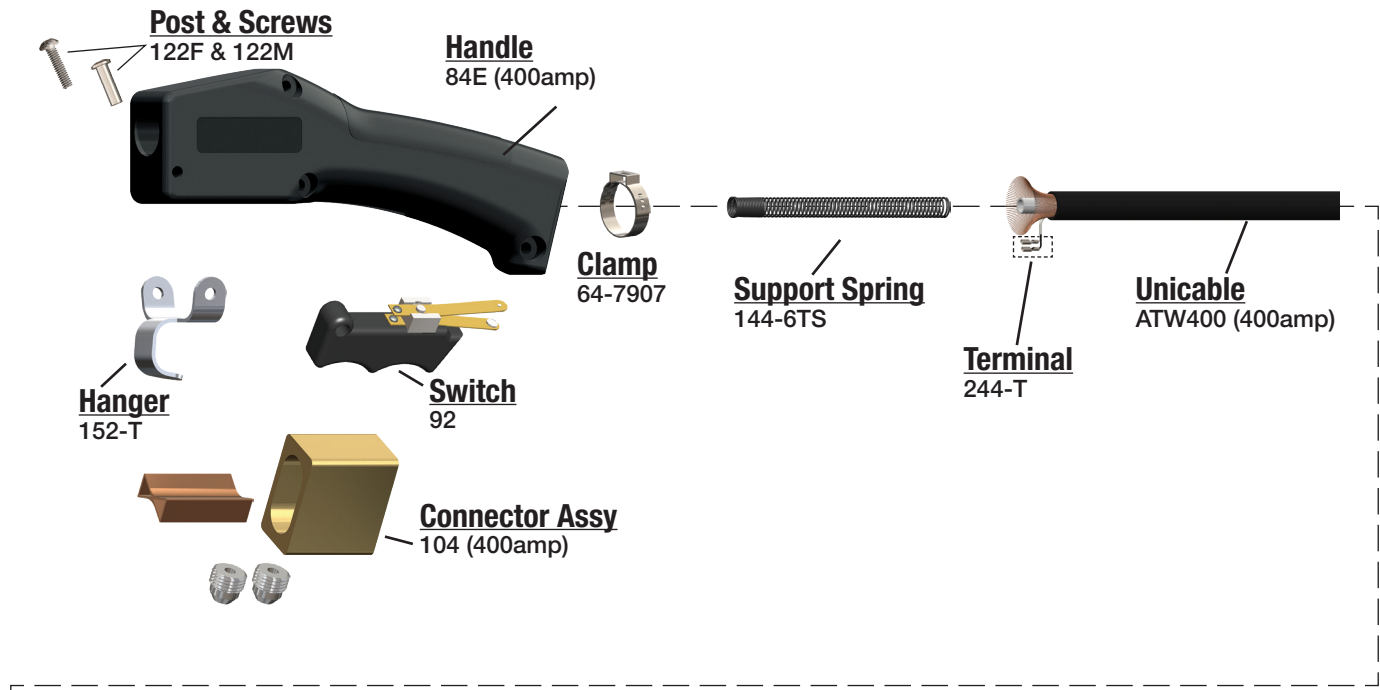
**7. LINERS**

			<b>I.D.</b>	<b>O.D.</b>
	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

# 120 TWECO® T-400 MIG GUN® STYLE

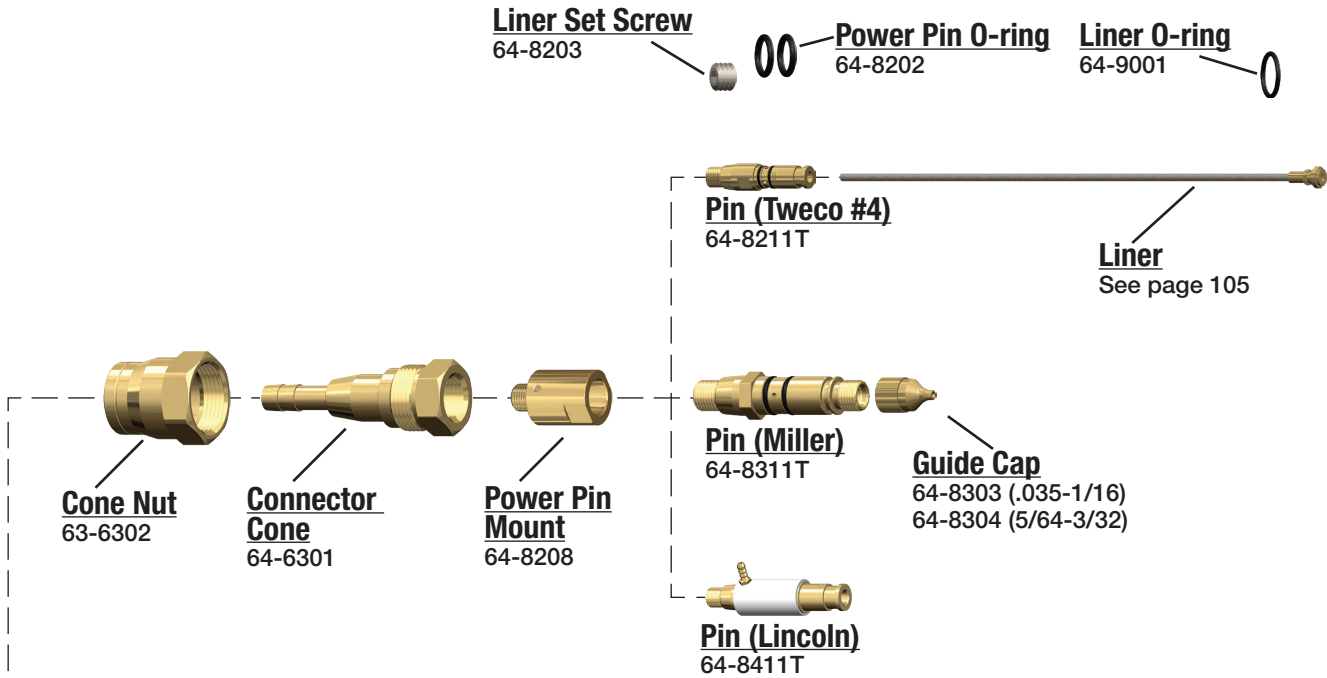
COMPATIBLE WITH TWECO 400 AMP REPLACEMENT PARTS†

MIG



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COMPATIBLE WITH TWECO 400 AMP REPLACEMENT PARTS†



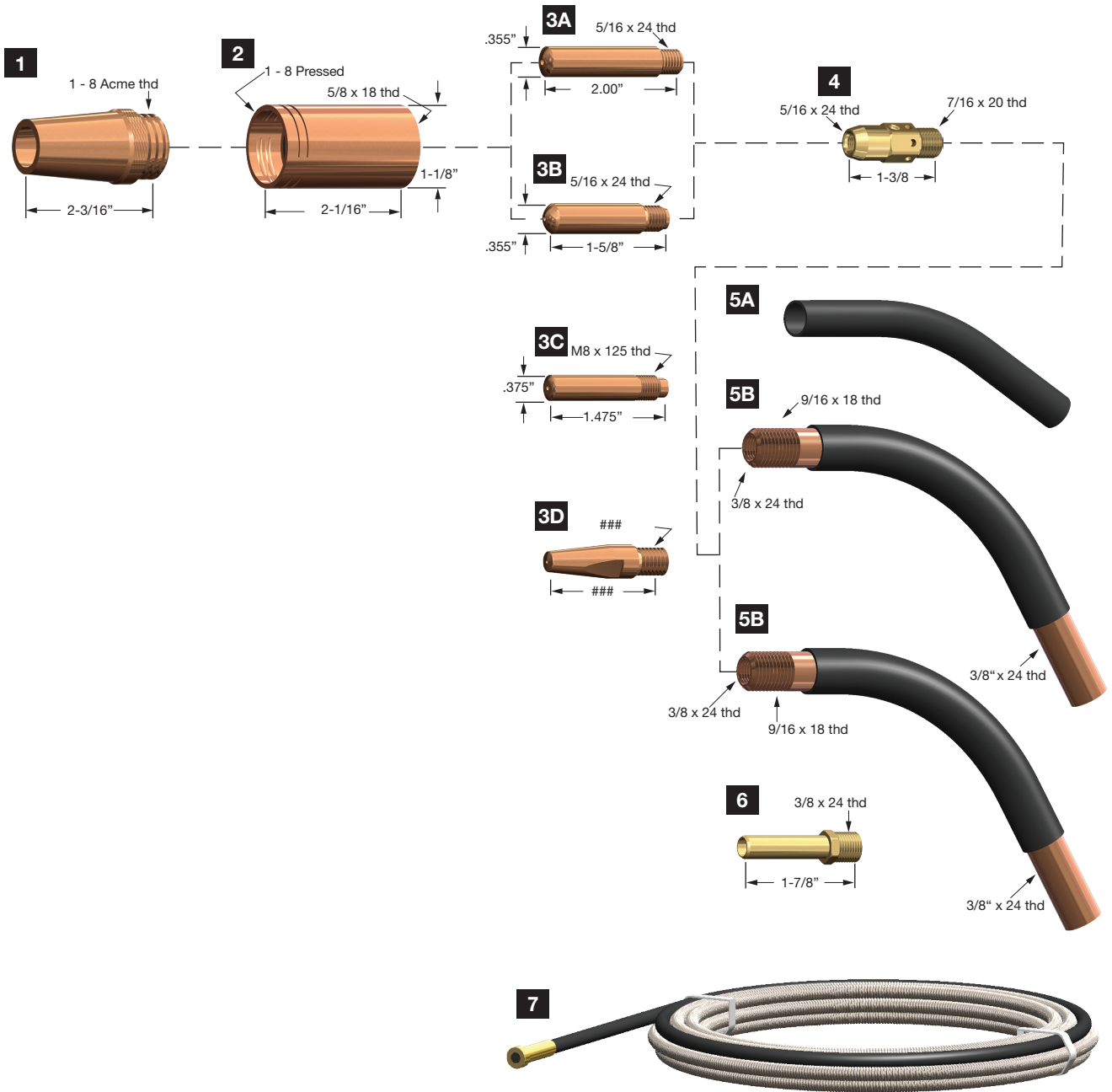
**MIG**

† American Torch Tip Company (ATTC) is a proud US manufacturer of more than 80 years producing products for 6 major cutting and welding technologies. ATTC is in no way affiliated with the above-named original equipment manufacturer(s). References to the above-named manufacturers, tradenames and part numbers are for your convenience only. Most parts advertised for sale are made by or for American Torch Tip and other parts as indicated are original parts manufactured by above-named, original equipment manufacturer (OEM) and are simply being re-sold by American Torch Tip. Footnotes: \* = OEM; # = American Torch Tip is licensed to make and sell this part by named manufacturer; ATTC and ATT suffix = This part is an original American Torch Tip design and is not manufactured identical to the OEM design; ® indicates a registered trademark, trade name, or product name of the above-named company. PHD™, PHDX™, Lightning®, Waltec™, Integra™, Lasertec® Laser Division of American Torch Tip®, Multi-Use™ and ProMix™ are trademarks owned by American Torch Tip Company. © Copyright 2024, American Torch Tip Company

# 122 TWECO® STYLE

5-6 COMPATIBLE WITH TWECO 500 AMP CONSUMABLES†

MIG



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**5-6 COMPATIBLE WITH TWECO 500 AMP CONSUMABLES†**
**1. NOZZLES**

		<b>I.D.</b>
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**

			<b>I.D.</b>
A	15AH-364	Contact Tip H.D.	3/64" Al. (1.2mm) .059
	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	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"
	16-564	Contact Tip	5/64"
	16-332	Contact Tip	3/32"
	16-764	Contact Tip	7/64"
	16S-35	Contact Tip	.035"
	16S-45	Contact Tip	.045"
	16S-52	Contact Tip	.052"
	16S-116	Contact Tip	1/16"
	16S-332	Contact Tip	3/32"
	16S-564	Contact Tip	5/64"
	16S-764	Contact Tip	7/64"
	16AS-364	Contact Tip	3/64"
	16AS-116	Contact Tip	1/16"
	16RZ-35	Contact Tip Long Life	
	16RZ-45	Contact Tip Long Life	
	16RZ-52	Contact Tip Long Life	
	16RZ-116	Contact Tip Long Life	
D	16ST-35	Contact Tip Tapered	
	16ST-45	Contact Tip Tapered	
	16ST-52	Contact Tip Tapered	
	16ST-116	Contact Tip Tapered	
	16RZT-35	Contact Tip Tapered Long	
	16RZT-45	Contact Tip Tapered Long	
	16RZT-52	Contact Tip Tapered Long	
	16RZT-116	Contact Tip Tapered Long	

**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. GOOSENECKS**

ADD J TO THE PART NUMBER FOR JACKETED GOOSENECKS (I.E. 64J-60)

STANDARD GOOSENECK ON MIG GUNS IS METAL JACKETED

A	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
B	74A	Insulation

**6 GAS HOSE NIPPLE**

64N5 nipple

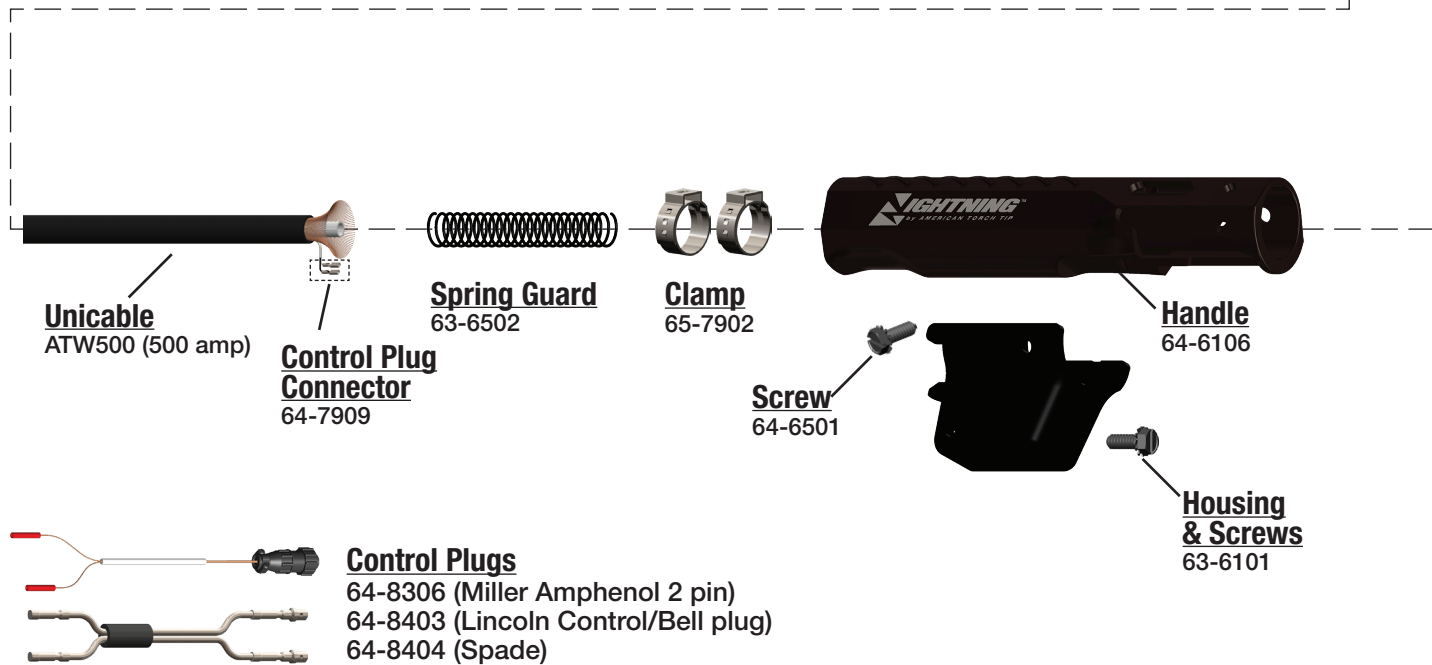
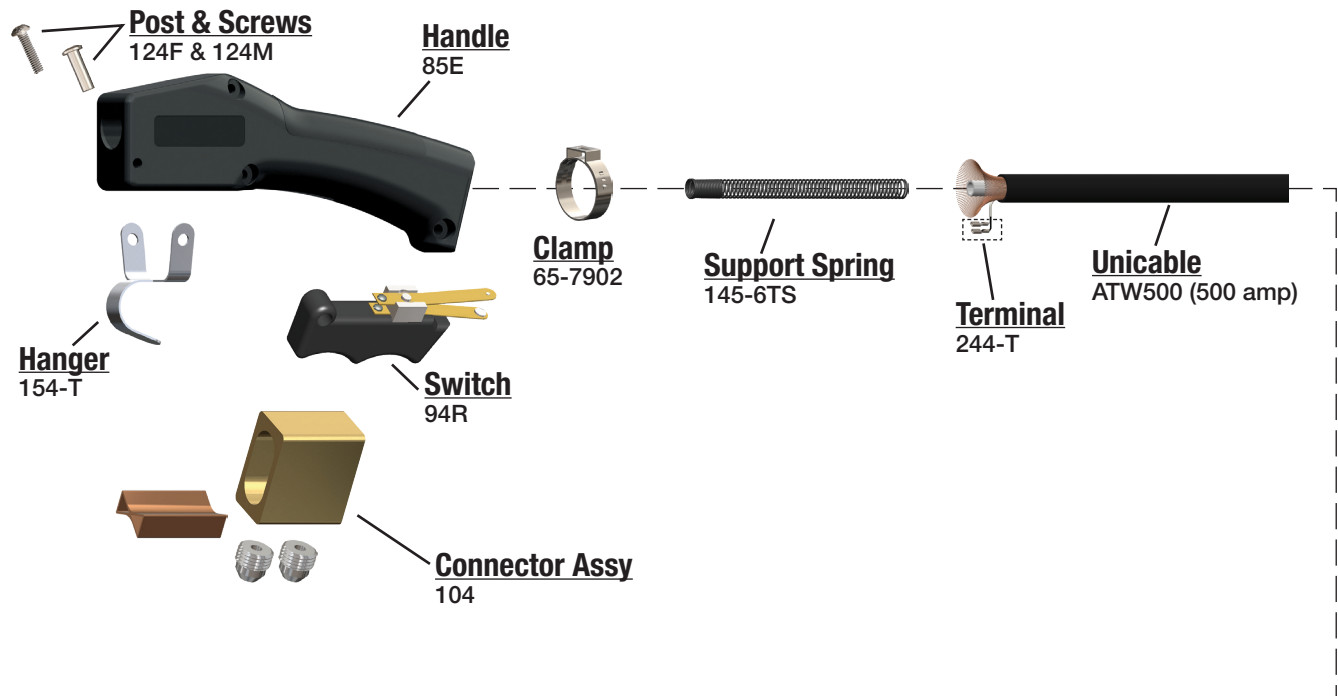
**7. LINERS**

		<b>I.D.</b>	<b>O.D.</b>
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"	

# 124 TWECO® T-500 MIG GUN® STYLE

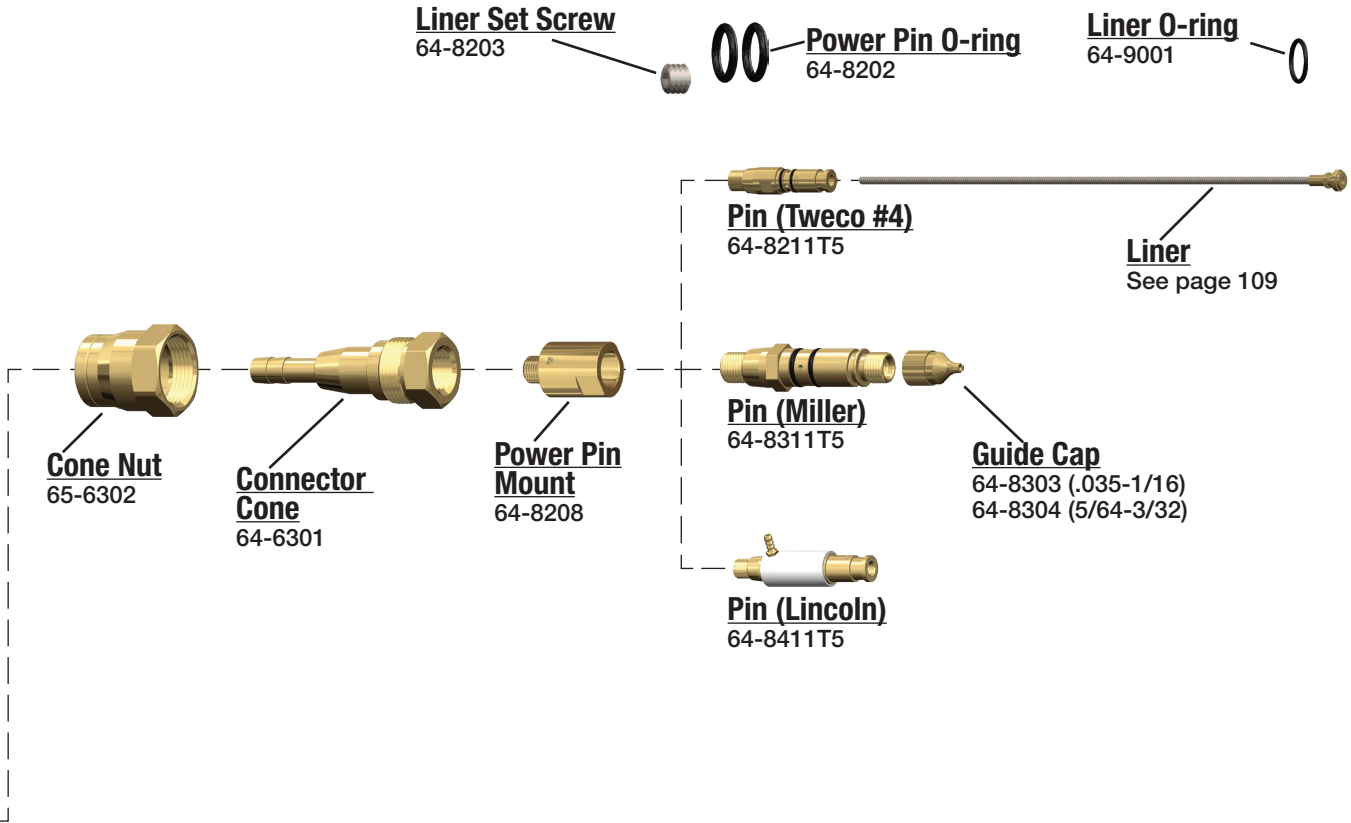
T-500 COMPATIBLE WITH TWECO 500AMP REPLACEMENT PARTS†

MIG



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T-500 COMPATIBLE WITH TWECO 500AMP REPLACEMENT PARTS†



**MIG**

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# 126 TWECO® MIG GUN STYLE

COMPATIBLE WITH TWECO†

MIG

**Tweco #4**  
64-8201



**Bernard**  
64-8501



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



**Daiden**  
64-8501



**Panasonic**  
64-8702



**Euro**  
64-8100



**Thermal Arc**  
64-8901



**Hitachi**  
64-8422



**Tweco #5**  
64-8204



**Lincoln**  
64-8401



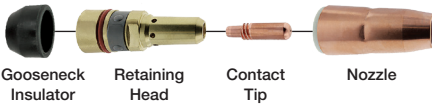
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**LIGHTNING® SEMI-AUTOMATIC GUN CONVERSION KITS AVAILABLE FOR & COMPATIBLE WITH BERNARD®, LINCOLN® & TWECO® WITH A SIMPLE CHANGE-OUT OF PARTS†**

**LIGHTNING® RETAINING HEADS**

Part #	Description
65-3103*	Retaining Head for Extra Heavy Duty
63-3103	Retaining Head T/L
63-3103-2	Retaining Head T/L
63-3116	Thread-on Retaining Head HD
63-3402	Retaining Ring
63-3301	O-Ring Orange 016
63-3118-T	Diffuser, Bernard® Threaded

\*This retaining head must be used with #65-11XX contact tip. See Contact Tips Selector Chart on pg. 2



**BENEFITS**

- ✓ Greater surface area contact between tip and head ensures better heat dissipation and conductivity.
- ✓ Tapered tip design creates a more secure seat, eliminating loose tips.
- ✓ Cooler tip temperature reduces wear and extends tip life.
- ✓ Dual-lead thread design allows for 180 degree rotation of tip to new wear point for extended tip life.
- ✓ Brass insert prevents wear and extends life.
- ✓ Superior surface finish minimizes spatter adhesion.
- ✓ Durable hard drawn copper or brass withstands abuse.

**Lightning® Contact Tips Selector Chart**

Part #	Description
63-1130	Contact Tip HD .030 pk 10
63-1135	Contact Tip HD .035 pk 10
63-1135-40	Contact Tip HD .035/.040 I.D. pk 10
63-1138	Contact Tip HD .030 pk 10 Robotic
63-1140	Contact Tip HD .040 pk 10
63-1145	Contact Tip HD .045 pk 10
63-1147	Contact Tip HD 3/64" al pk 10
63-1152	Contact Tip HD .052 pk 10
63-1162	Contact Tip HD 1/16" pk 10
63-1168	Contact Tip HD .068/.078 I.D. pk 10
63-1172	Contact Tip HD .072 pk 10 SPECIAL
63-1178	Contact Tip HD 5/64" pk 10
63-1193	Contact Tip HD 3/32" pk 10
Part #	Tapered Tip
63-12XX	XX = last 2 digits indicate wire size
Part #	CZ Tip (Chromium Zirconium)
63-13XX	XX + last 2 digits indicate wire size
Part #	Extra Heavy Duty Tip
65-11XX*	XX = last 2 digits indicate wire size

\*This contact tip must be used with #65-3103 retaining head. See Lightning Retaining Heads Chart on pg. 1

**BERNARD® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Q-Gun Series	63-6105	63-3118	63-11XX‡	6X-XXXX**
EZ Feed Series	63-6105	63-3118	63-11XX‡	6X-XXXX**
T-Series†	63-6202-HD	63-3103	63-11XX‡	6X-XXXX**
Roughneck C Miller	63-6105	63-3118	63-11XX‡	6X-XXXX**

**LINCOLN® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Magnum 300	63-6105	63-3103	63-11XX‡	6X-XXXX**
Magnum 400	63-6105	63-3103	63-11XX‡	6X-XXXX**
Magnum Pro	63-6105	63-3119	63-11XX‡	6X-XXXX**

**TWECO® MIG TORCHES**

Model	Gooseneck Insulator	Retaining Head	Contact Tip	Nozzle
Tweco #3	63-6105	63-3103	63-11XX‡	6X-XXXX**
Tweco #4	63-6105	63-3103	63-11XX‡	6X-XXXX**
SprayMaster 450	63-6105	63-3103	63-11XX‡	6X-XXXX**
WeldSkill 400	63-6105	63-3103	63-11XX‡	6X-XXXX**

Use the Lightning® contact tip system (gooseneck insulator, retaining head, contact tip and nozzle) with Bernard® Lincoln® or Tweco® MIG guns.

Use 63-3118 Retaining Head on goosenecks with external 9/16"-18 thread, such as Q-gun and EZ Feed guns with 1/4" NPT thread.

† T-Series retaining head can only be used on Bernard® T-Series (Tregasskiss®) guns.

‡ 63-11XX (XX = your wire size)

\*\* 6X-XXXX (see Nozzle Selector Chart on next page)

**Lightning® Nozzle Selector Chart (Air-Cooled Slip On)**

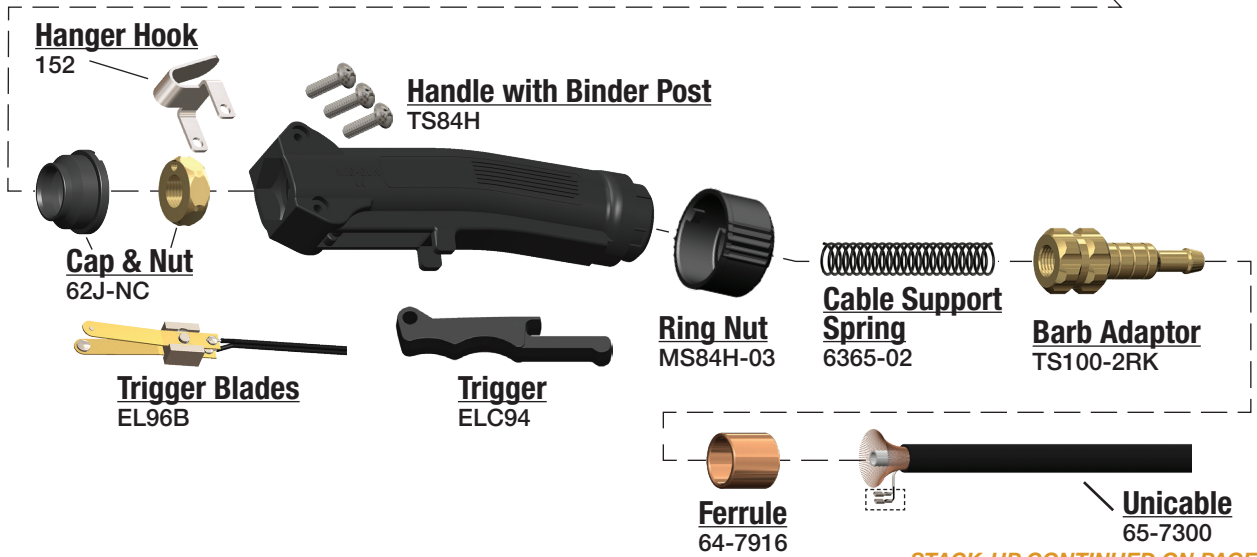
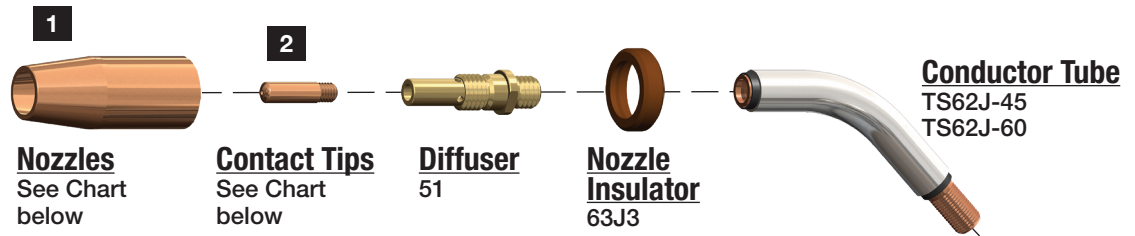
Standard Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
63-2138	3/8" Copper	.938" / 2.75"	Flush
64-2950	1/2" Brass	.938" / 2.63"	1/8" Stickout
63-2950B	1/2" Brass	.938" / 2.88"	1/8" Recess
63-2150	1/2" Copper	.938" / 2.88"	1/8" Stickout
63-2762	5/8" Copper	.938" / 2.51"	1/4" Stickout
63-2662	5/8" Copper	.938" / 2.63"	1/8" Stickout
63-2162	5/8" Copper	.938" / 2.88"	1/8" Recess
63-2175	3/4" Copper	.938" / 2.88"	1/8" Recess
Heavy Duty Nozzle Part #	Bore/Material	O.D./Length	Tip Location
65-2550	1/2" Copper	1.062" / 2.88"	1/8" Recess
65-2662	5/8" Copper	1.062" / 2.63"	1/8" Stickout
65-2362	5/8" Brass	1.062" / 2.63"	1/8" Stickout
64-2962	5/8" Copper	1.062" / 2.75"	Flush
65-2862	5/8" Brass	1.062" / 2.75"	Flush
63-2362	5/8" Brass	1.062" / 2.88"	1/8" Recess
65-2562	5/8" Copper	1.062" / 2.88"	1/8" Recess
64-2562	5/8" Copper	1.062" / 3.00"	1/4" Recess
65-2575	3/4" Copper	1.062" / 2.88"	1/8" Recess
65-2375	3/4" Brass	1.062" / 2.88"	1/8" Recess
64-2575	3/4" Copper	1.062" / 3.00"	1/4" Recess
64-2387	7/8" Brass	1.062" / 3.00"	1/4" Recess
65-2562-T	5/8" Copper	1.062" / 2.78"	1/8" Recess

**MIG**

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# 128 TWECO® STYLE

COMPATIBLE WITH SPITFIRE 180 AMP MIG GUN†- FOR BACK END SEE PAGE 128



STACK-UP CONTINUED ON PAGE 128

## SPITFIRE & SPRAY MASTER GUN PART NUMBERING SYSTEM

GUNS		TS	4	15	M	116	WIRE SIZE	
TS - SpitFire							35 - .035	
MS - SprayMaster							45 - .045	
		<b>AMPERAGE</b>	<b>LENGTH</b>	<b>ADAPTER</b>			364 - 3/64	
		1 - 180	10	L - Lincoln			52 - .052	
		2 - 250	15	M - Miller			116 - 1/16	
		3 - 350	20	E - Euro			564 - 5/64	
		4 - 450	25	X - Tweco			332 - 3/32	

### 1. 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)

### 2. 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

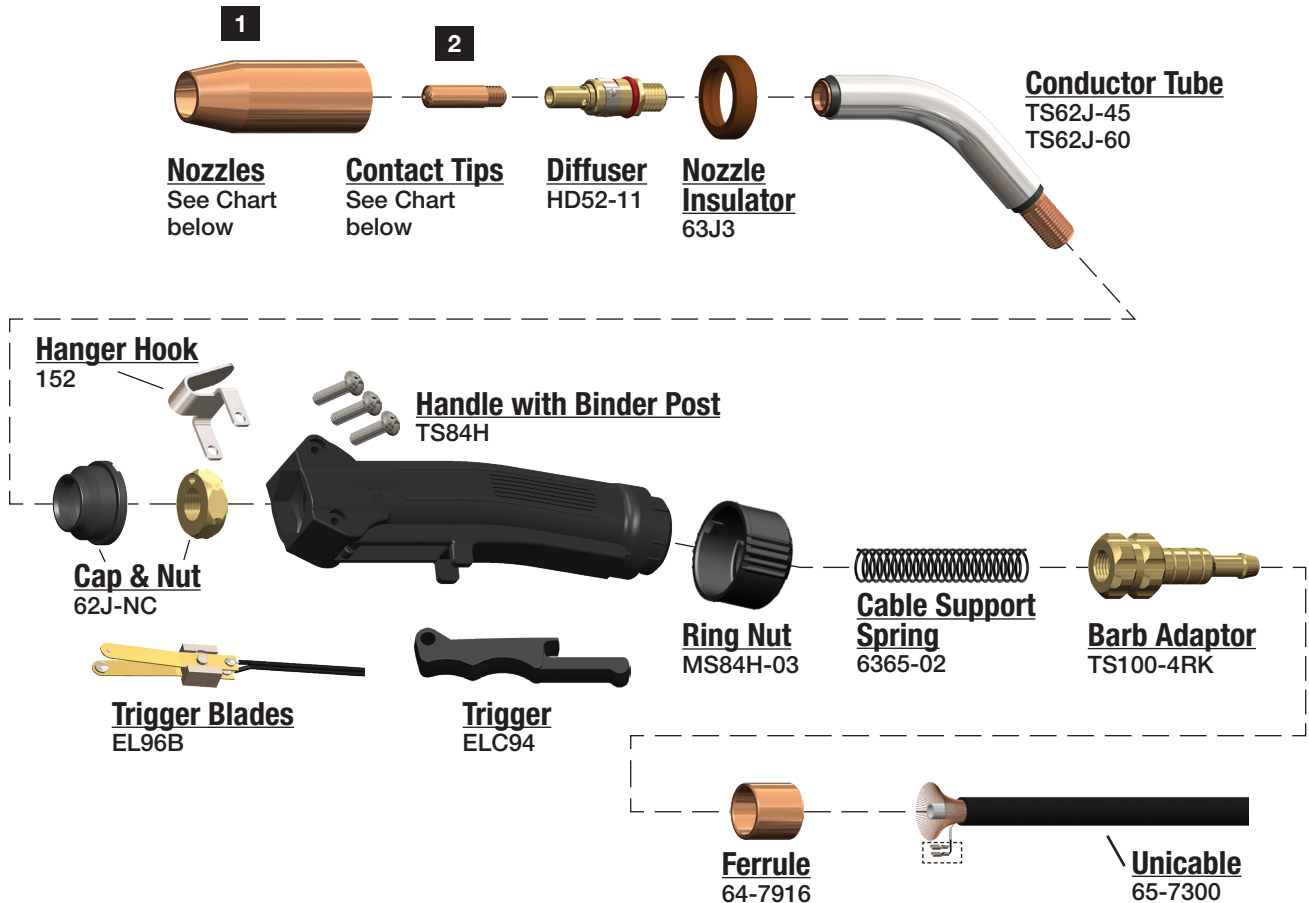
### LINERS

### I.D.

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

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COMPATIBLE WITH SPITFIRE 250 AMP MIG GUN†- FOR BACK END SEE PAGE 128



**MIG**

STACK-UP CONTINUED ON PAGE 128

**1. 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)

**2. 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

**LINERS**

**I.D.**

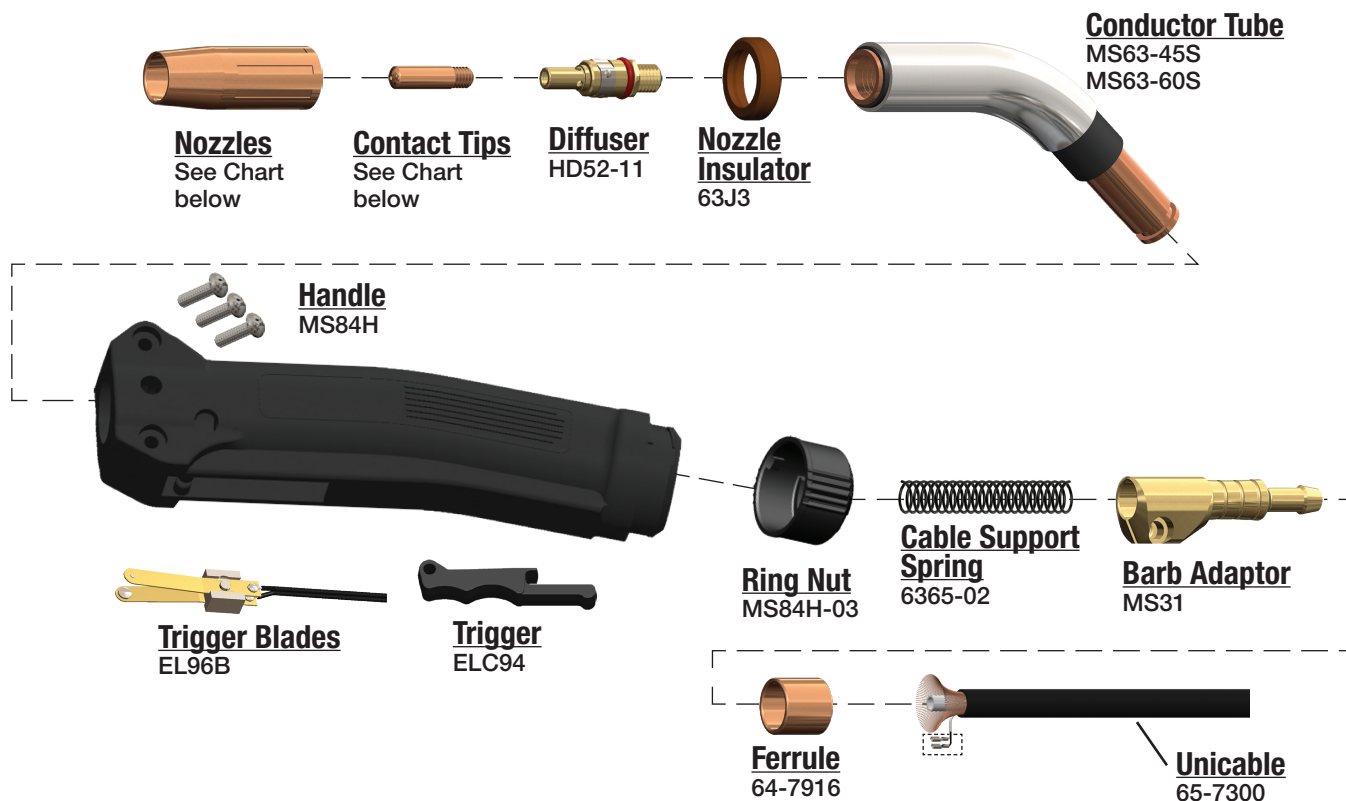
42-3035-15	Liner Assy.	15'	.023-.035	.053	.15
42-3035-25	Liner Assy.	25'	.030-.035	.053	.156
42-4045-15	Liner Assy.	15'	.040-.045	.059	.156
42-4045-25	Liner Assy.	25'	.040-.045	.059	.156

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# 130 TWECO® STYLE

COMPATIBLE WITH SPRAY MASTER 250 AMP MIG GUN†- FOR BACK END SEE PAGE 128

MIG



STACK-UP CONTINUED ON PAGE 128

## 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

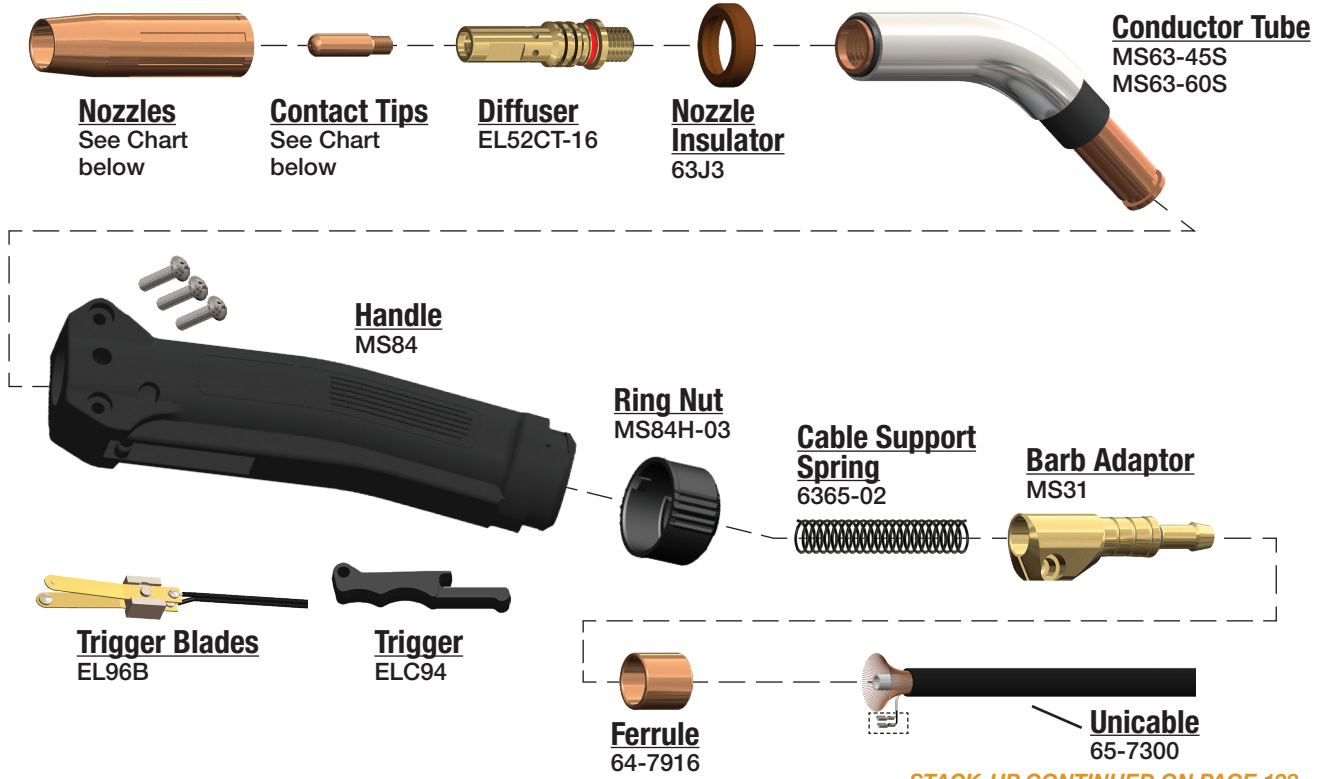
## LINERS

				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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COMPATIBLE WITH SPRAY MASTER 350 AMP<sup>+</sup>- FOR BACK END SEE PAGE 128



**MIG**

STACK-UP CONTINUED ON PAGE 128

**1. NOZZLES**

			<b>I.D.</b>
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**

				<b>I.D.</b>
	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)	.093
	16S-332	Contact Tip	3/32" (2.4mm)	.110
	16AS-364	Contact Tip	3/64" (1.2mm)AL	.059
	16AS-116	Contact Tip	1/16" (1.6mm)AL	.082

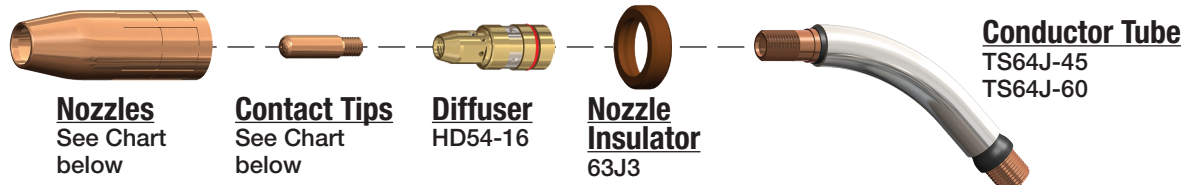
**LINERS**

				<b>I.D.</b>	<b>O.D.</b>
	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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# 132 TWECO® STYLE

COMPATIBLE WITH SPITFIRE 450 AMP MIG GUN† - FOR BACK END SEE PAGE 128



MIG



## 1. 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"

## 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-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

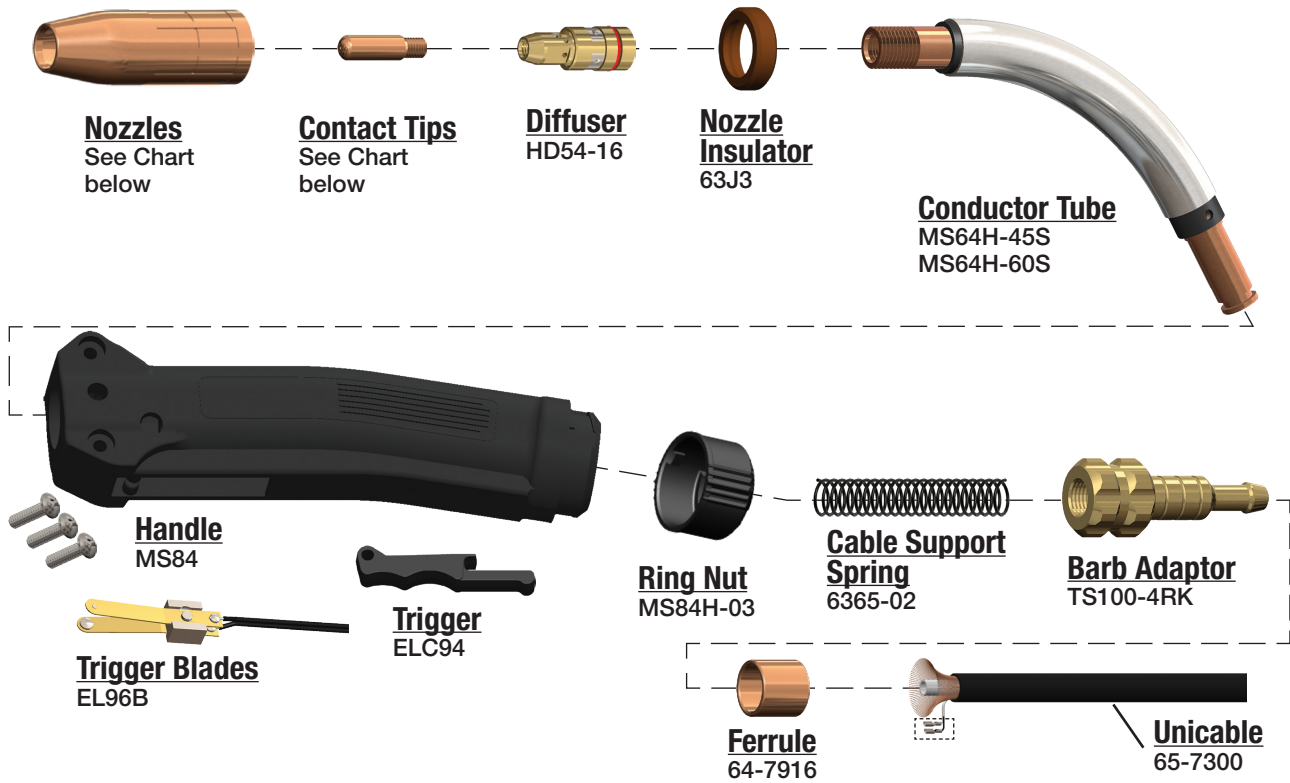
## LINERS

### 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

STACK-UP CONTINUED ON PAGE 128

COMPATIBLE WITH SPRAY MASTER 450 AMP<sup>†</sup>- FOR BACK END SEE PAGE 128



**MIG**

STACK-UP CONTINUED ON PAGE 128

**1. NOZZLES**

		<b>I.D.</b>
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-62F	Nozzle Flush.	5/8"
HD24-50	Nozzle H.D. Recess	1/8"
HD24-62	Nozzle H.D. Recess	5/8"
HD24-62F	Nozzle H.D. Flush	5/8"
HD24-75F	Nozzle H.D. Flush	3/4"

**2. CONTACT TIP**

			<b>I.D.</b>
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)	.093
16AS-364	Contact Tip	3/64" (1.2mm)AL	.059
16AS-116	Contact Tip	1/16" (1.6mm)AL	.082

**LINERS**

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

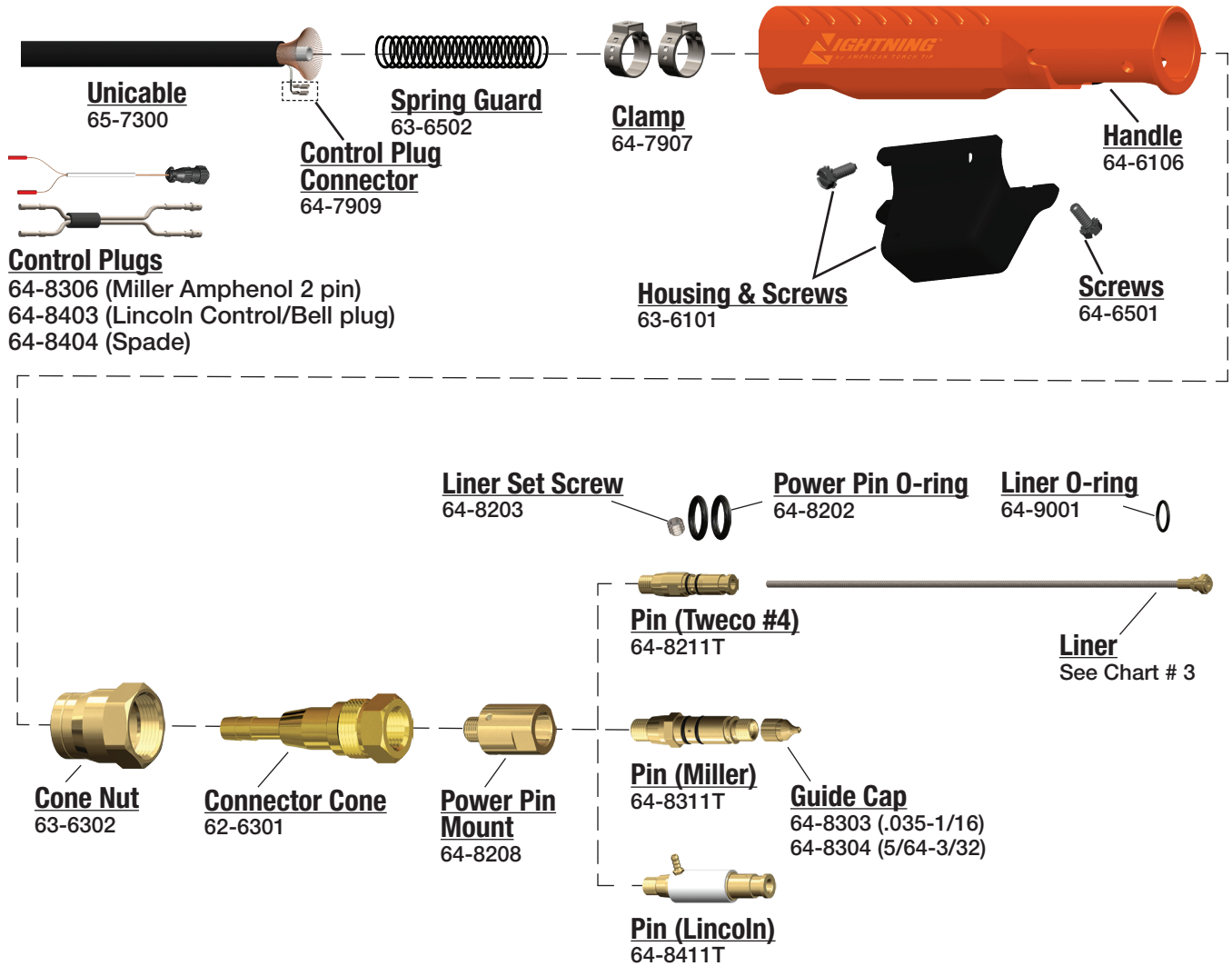
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# 134 TWECO® STYLE

COMPATIBLE WITH TWECO SPIT FIRE & SPRAY MASTER ASSEMBLIES† BACK END

CONTINUATION OF TWECO SPIT FIRE & SPRAY MASTER STACK-UPS  
FROM PAGES 122-127

MIG



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