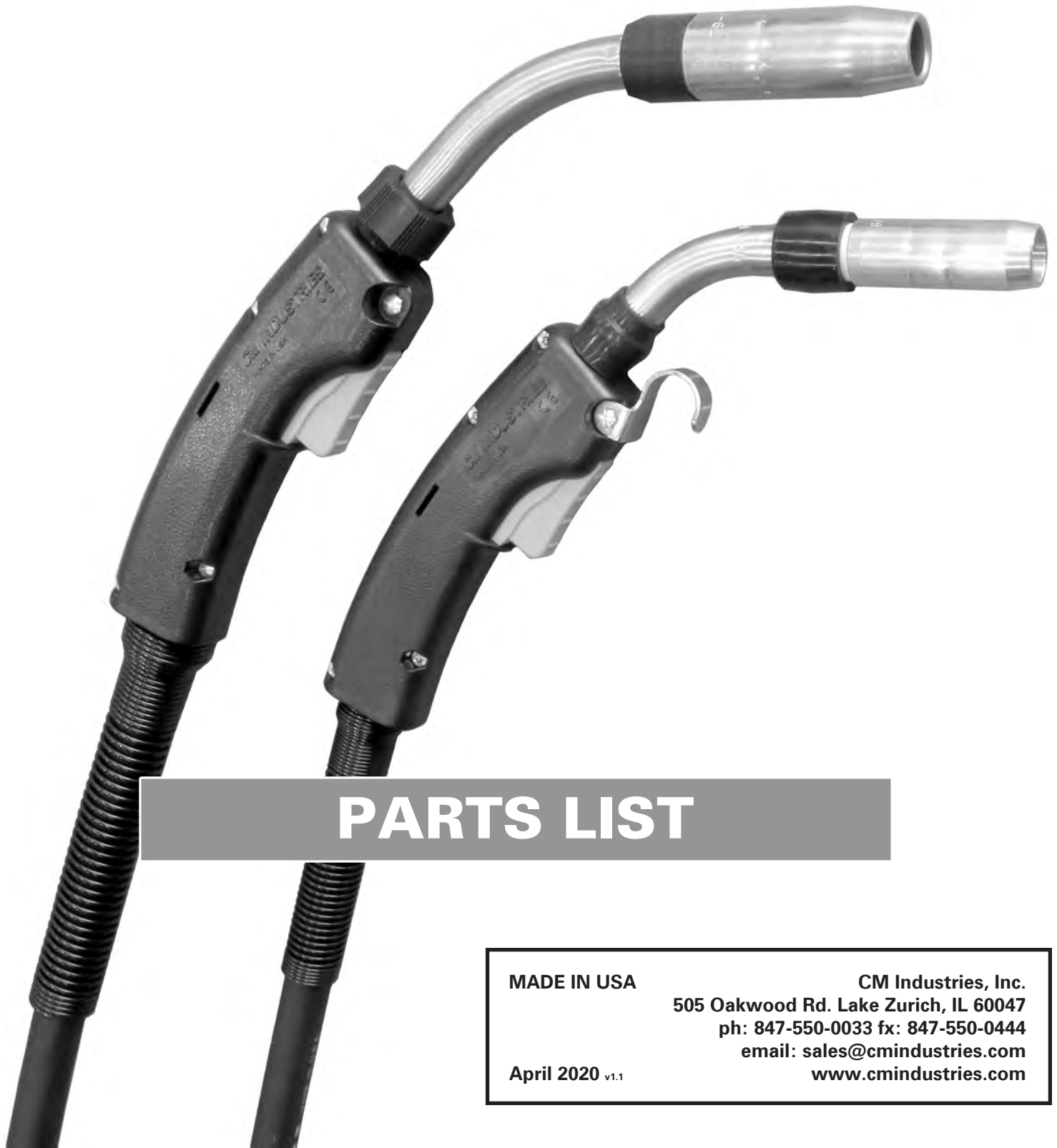


CM INDUSTRIES
INC.

B-Series MIG Guns

Semi-Automatic, Air-Cooled, MIG Welding Gun



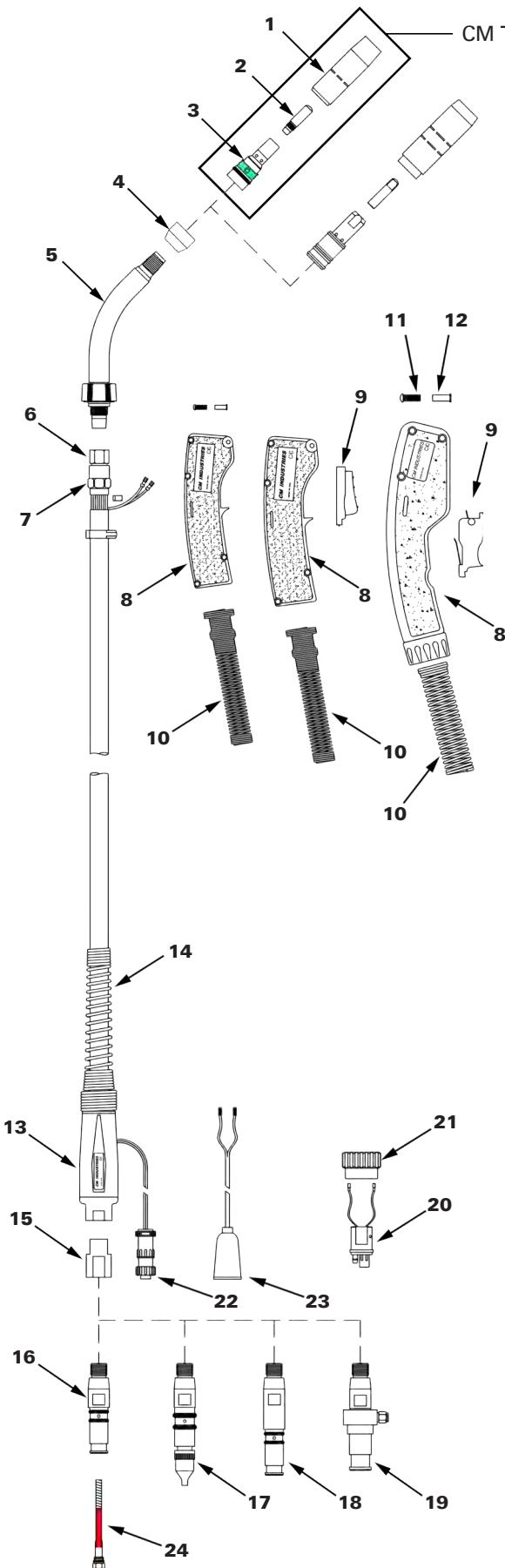
PARTS LIST

MADE IN USA

April 2020 v1.1

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047
ph: 847-550-0033 fx: 847-550-0444
email: sales@cmindustries.com
www.cmindustries.com

PARTS LIST - B-Series Replacement Parts for 200, 300, 400 & 500 Amps



CM Taper-LOCK™ Performance Consumables

ITEM #	PART #				DESCRIPTION
	Q20	Q30	Q40	Q50	
1	152-10-62C		152-30-62C		Nozzle, CMI Taper-LOCK™
	R401-4-50	R401-6-62			Nozzle, Tregaskiss™ Comparable
	B4391	B4491	B4591		Nozzle, Bernard™ Comparable
	See Nozzle Selection				Nozzle, Optional Available
2	See Contact Tip Selection				Contact Tip
3	154-R505				Diffuser, CMI Taper-LOCK™
	R404-20				Diffuser, Tough Lock™ Comparable
	B4335		B4435		Diffuser, Short Elliptical Tip
	B4235		B4635		Diffuser, Long Elliptical Tip
4	B10012				Neck Insulator, CMI Taper-LOCK™/Tough Lock™
	B4323R		B4423R		Neck Insulator, Elliptical
5	See Neck in Ordering Information				Neck
6	B4213B	B4313B		B4513B	End Fitting
7	B4305		B1540003	B4416	Cone Nut
8	B1880155		N/A		Handle Kit, Small
	N/A		B1880198	N/A	Handle Kit, Medium
9	N/A			B4408	Handle Kit, Large
	B5662		B4422		Trigger Assembly
10	B2520074		N/A		Spring for Small Handle
	N/A		B2520042	N/A	Spring for Medium Handle
11	N/A			185-40-001	Spring for Large Handle
	B4209		B4409		Handle Screw
12	B4207		B4407		Post Fastener
	B1880004		B4426		Screw/Post Kit
13	B2520066				Strain Relief Kit
14	B2520041S		B2520041		Strain Relief Spring
15	B1010027R				Adapter Block
16	214				Power Pin, Tweco® #4
17	214-1		214-116		Power Pin, Miller®
	214-116		214-332		Power Pin Cap, .023"-1/16"
	214-332				Power Pin Cap, 5/64"-3/32"
18	214-25				Power Pin, Lincoln® PM & LF
19	214-7				Power Pin, Lincoln® LN
20	B5060CM				Euro Connector Plug
21	B4816				Euro Connector Nut
22	BGN2021				Control Plug, Miller® / Lincoln® PM
23	B4719				Control Plug, Lincoln® LN & LF
24	See Liner Selection				Liner



Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

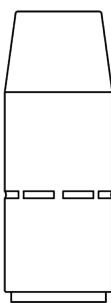
Nozzles (Optional Available)

CM Industries Taper-LOCK™



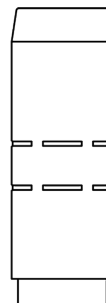
Light Duty	
152-10-50C	1/2", 1/8" Recess
152-10-62C	5/8", 1/8" Recess
152-11-50C	1/2", 1/4" Recess
152-12-50C	1/2", Flush
152-13-50C	1/2", 1/8" Stickout
152-13-62C	5/8", 1/8" Stickout
Heavy Duty	
152-30-50C	1/2", 1/8" Recess
152-30-62C	5/8", 1/8" Recess
152-31-562	5/8", 1/4" Recess
152-32-62C	5/8", Flush
152-33-62C	5/8", 1/8" Stickout
152-34-62C	5/8", 1/4" Stickout

Comparable to Tregaskiss™



Light Duty	
R401-4-38	3/8", Flush
R401-4-50	1/2", 1/8" Recess
R401-4-62	5/8", 1/8" Recess
R401-4-75	3/4", 1/8" Recess
R401-8-62	5/8", 1/8" Stickout
Heavy Duty	
R401-5-50	1/2", 1/4" Recess
R401-5-62	5/8", 1/4" Recess
R401-5-75	3/4", 1/4" Recess
R401-6-50	1/2", 1/8" Recess
R401-6-62	5/8", 1/8" Recess
R401-6-75	3/4", 1/8" Recess

Comparable to Bernard™



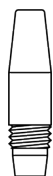
200 & 300 Amp	
B4391	Brass 5/8" I.D.
B4393	Copper 5/8" I.D.
B4392	Brass 1/2" I.D.
B4394	Copper 1/2" I.D.
B4295	Brass, Long - 11/32" I.D.
400 & 500 Amp	
B4491	Brass 3/4" I.D.
B4591	Copper 3/4" I.D.
B4492	Brass 9/16" I.D.
B4592	Copper 9/16" I.D.
B4495	Brass 5/8" I.D.
B4591HD	Copper, H.D. 3/4" I.D.
B4592HD	Copper, H.D. 9/16" I.D.

Contact Tips

CM Industries Taper-LOCK™ Contact Tips



Heavy Duty	
155-1-030	0.030" (0.8mm)
155-1-035	0.035" (0.9mm)
155-1-040	0.040" (1.0mm)
155-1-045	.045" (1.2mm)
155-1-364	3/64" (1.2mm)
155-1-052	0.052" (1.4mm)
155-1-062	0.062" (1.6mm)
155-1-1.8	0.071" (1.8mm)
155-1-564	5/64" (2.0mm)
155-1-332	3/32" (2.4mm)
155-1-764	7/64" (2.8mm)



Heavy Duty - Tapered	
155-2-030	0.030" (0.8mm)
155-2-035	0.035" (0.9mm)
155-2-040	0.040" (1.0mm)
155-2-045	0.045" (1.2mm)
155-2-364	3/64" (1.2mm)
155-2-052	0.052" (1.4mm)
155-2-062	0.062" (1.6mm)
155-2-1.8	0.071" (1.8mm)

Comparable to Bernard™ Elliptical Contact Tips



Short	
B7488	0.030" (0.8mm)
B7489	0.035" (0.9mm)
B7490	0.045" (1.2mm)
B7491	1/16" (1.6mm)
B7492	5/64" (2.0mm)
B7493	3/32" (2.4mm)
B7494	7/64" (2.8mm)
B7495	1/8" (3.2mm)
B7496	0.040" (1.0mm)
B7497	0.023" (0.6mm)
B7498	0.052" (1.4mm)



Long	
B1588	0.030" (0.8mm)
B1589	0.035" (0.9mm)
B1590	0.045" (1.2mm)
B1591	1/16" (1.6mm)
B1592	5/64" (2.0mm)
B1593	3/32" (2.4mm)
B1594	7/64" (2.8mm)
B1595	1/8" (3.2mm)
B1596	0.040" (1.0mm)
B1597	0.023" (0.6mm)
B1598	0.052" (1.4mm)

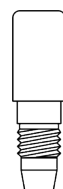
Comparable to Tregaskiss™ Tough Lock™ Contact Tips



Heavy Duty	
R403-20-30	0.030" (0.8mm)
R403-20-35	0.035" (0.9mm)
R403-20-1.0	0.040" (1.0mm)
R403-20-45	0.045" (1.2mm)
R403-20-364	3/64" (1.2mm)
R403-20-52	0.052" (1.4mm)
R403-20-116	1/16" (1.6mm)
R403-20-1.8	0.071" (1.8mm)
R403-20-564	5/64" (2.0mm)
R403-20-332	3/32" (2.4mm)



Heavy Duty - Tapered	
R403-21-30	0.030" (0.8mm)
R403-21-35	0.035" (0.9mm)
R403-21-1.0	0.040" (1.0mm)
R403-21-45	0.045" (1.2mm)
R403-21-52	0.052" (1.4mm)
R403-21-116	1/16" (1.6mm)



Extra Heavy Duty	
R603-20-45	0.045" (1.2mm)
R603-20-52	0.052" (1.4mm)
R603-20-116	1/16" (1.6mm)
R603-20-564	5/64" (2.0mm)
R603-20-332	3/32" (2.4mm)

Liners

Universal Conventional Liners

10' (3.05m) Gun Lengths	
L3A-10	for 0.035" - 0.045" wire
L4A-10	for 0.045" - 1/16" wire

15' (4.57m) Gun Lengths	
L1A-15	for 0.023" - 0.030" wire
L2A-15	for 0.030" - 0.035" wire
L3A-15	for 0.035" - 0.045" wire
L4A-15	for 0.045" - 1/16" wire
L6A-15	for 5/64" wire
L7A-15	for 3/32" wire
L8A-15	for 7/64" - 1/8" wire

25' (7.62m) Gun Lengths	
L1A-25	for 0.023" - 0.030" wire
L2A-25	for 0.030" - 0.035" wire
L3A-25	for 0.035" - 0.045" wire
L4A-25	for 0.045" - 1/16" wire
L6A-25	for 5/64" wire
L7A-25	for 3/32" wire
L8A-25	for 7/64" - 1/8" wire

Conventional Liners for Aluminum

10' (3.05m) Gun Lengths	
415-45-02	for 0.035" - 3/64" wire Polymer Liner
415-116-22	for 3/64" - 1/16" wire Polymer Liner

15' (4.57m) Gun Lengths	
415-45-03	for 0.035" - 3/64" wire Polymer Liner
415-35-2	for 0.035" - 0.045" wire Steel Wrapped Nylon
415-116-2	for 0.045" - 1/16" wire Steel Wrapped Nylon
415-116-23	for 0.045" - 1/16" wire Polymer Liner

25' (7.62m) Gun Lengths	
415-45-04	for 0.035" - 3/64" wire Polymer Liner

Ordering Information

Amperage

BQ20	200 Amps
BQ30	300 Amps
BQ40	400 Amps
BQ50	500 Amps

Gun Length

08	8 ft. (2.44m)
10	10 ft. (3.05m)
12	12 ft. (3.66m)
15	15 ft. (4.57m)
20	20 ft. (6.16m)
25	25 ft. (7.63m)

Handle and Trigger

200, 300 Amp	A	Standard Trigger
Small Handle		
400 Amp	A	Standard Trigger
Medium Handle		
500 Amp	A	Standard Trigger
Large Handle		

BQ40 15 A E 4E M C*

Neck

A	Rotatable, Short	30°	BQT2-30
B	Rotatable, Short	45°	BQT2-45
C	Rotatable, Short	60°	BQT2-60
J	Rotatable, Short	80°	BQT2-80
D	Rotatable, Medium	30°	BQT3-30
E	Rotatable, Medium	45°	BQT3-45
F	Rotatable, Medium	60°	BQT3-60
K	Rotatable, Medium	80°	BQT3-80
G	Rotatable, Long	30°	BQT5-30
H	Rotatable, Long	45°	BQT5-45
I	Rotatable, Long	60°	BQT5-60
N	Fixed, Short	30°	BQT2-30
O	Fixed, Short	45°	BQT2-45
P	Fixed, Short	60°	BQT2-60
W	Fixed, Short	80°	BQT2-80
Q	Fixed, Medium	30°	BQT3-30
R	Fixed, Medium	45°	BQT3-45
S	Fixed, Medium	60°	BQT3-60
X	Fixed, Medium	80°	BQT3-80
T	Fixed, Long	30°	BQT5-30
U	Fixed, Long	45°	BQT5-45
V	Fixed, Long	60°	BQT5-60

Contact Tip

CMI Taper-LOCK™

4B	0.030" (0.8mm)	155-1-030
4C	0.035" (0.9mm)	155-1-035
4D	0.040" (1.0mm)	155-1-040
4E	0.045" (1.2mm)	155-1-045
4R	3/64" (1.3mm)	155-1-364
4H	0.052" (1.4mm)	155-1-052
4I	1/16" (1.6mm)	155-1-062
4K	5/64" (2.0mm)	155-1-564
4L	3/32" (2.4mm)	155-1-332

Comparable to Tregaskiss™

3B	0.030" (0.8mm)	R403-20-30
3C	0.035" (0.9mm)	R403-20-35
3D	0.040" (1.0mm)	R403-20-1.0
3E	0.045" (1.2mm)	R403-20-45
3R	3/64" (1.3mm)	R403-20-364
3H	0.052" (1.4mm)	R403-20-52
3I	1/16" (1.6mm)	R403-20-116
3K	5/64" (2.0mm)	R403-20-564
3L	3/32" (2.4mm)	R403-20-332

Power Pin


B	Bernard™
E	Euro
H	Hobart®
L	Lincoln® LN
S	Lincoln® LF/Power Feed
R	Lincoln® Power MIG
M	Miller®
O	OXO®
P	Panasonic®
T	Tweco® 4 (Standard Lead)
W	Tweco® 5 (Standard Lead)
X	Tweco® 5 (Miller Lead)


***Universal Conventional Liner**

CM Industries, Inc. is in no way affiliated with above-named manufacturers. References to above-named parts, feeders, and part numbers are for your reference only.

SAFETY WARNINGS!

READ BEFORE USE

 The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the welding power source Owner's Manual.

 Read and follow all Safety Standards. Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.

 During operation, keep everybody, especially children, away.

ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Replace worn, damaged, or cracked guns or cables.
- Turn off welding power source before changing contact tip or gun parts.
- Keep all covers and handle securely in place.

FUMES AND GASES can be hazardous.

- Keep your head out of the fumes.
- Ventilate area, or use breathing device. The recommended way to determine adequate ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

WELDING can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on containers that have held combustibles, or on closed containers such as tanks, drums, or pipes unless they are properly prepared according to AWS F4.1 and AWS A6.0 (see Safety Standards).
- Watch for fire; keep extinguisher nearby.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

HOT PARTS can burn.

- Allow gun to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.



MOVING PARTS can injure.

- Keep away from moving parts.
- Keep away from pinch points such as drive rolls.



ARC RAYS can burn eyes and skin.

- Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.
- Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes from arc rays and sparks when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards).
 - Wear approved safety glasses with side shields under your helmet.
 - Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.
 - Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.



BUILDUP OF GAS can injure or kill.

- Shut off compressed gas supply when not in use.
- Always ventilate confined spaces or use approved air-supplied respirator.



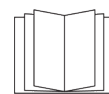
NOISE can damage hearing.

- Noise from some processes or equipment can damage hearing.
- Check for noise level limits exceeding those specified by OSHA.
 - Use approved ear plugs or ear muffs if noise level is high.
 - Warn others nearby about noise hazard.



WELDING WIRE can injure.

- Keep hands and body away from gun tip when trigger is pressed.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit.
- Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
- Perform installation, maintenance, and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

CALIFORNIA PROPOSITION 65 WARNING

This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use. (California Health & Safety Code Section 25249.5)

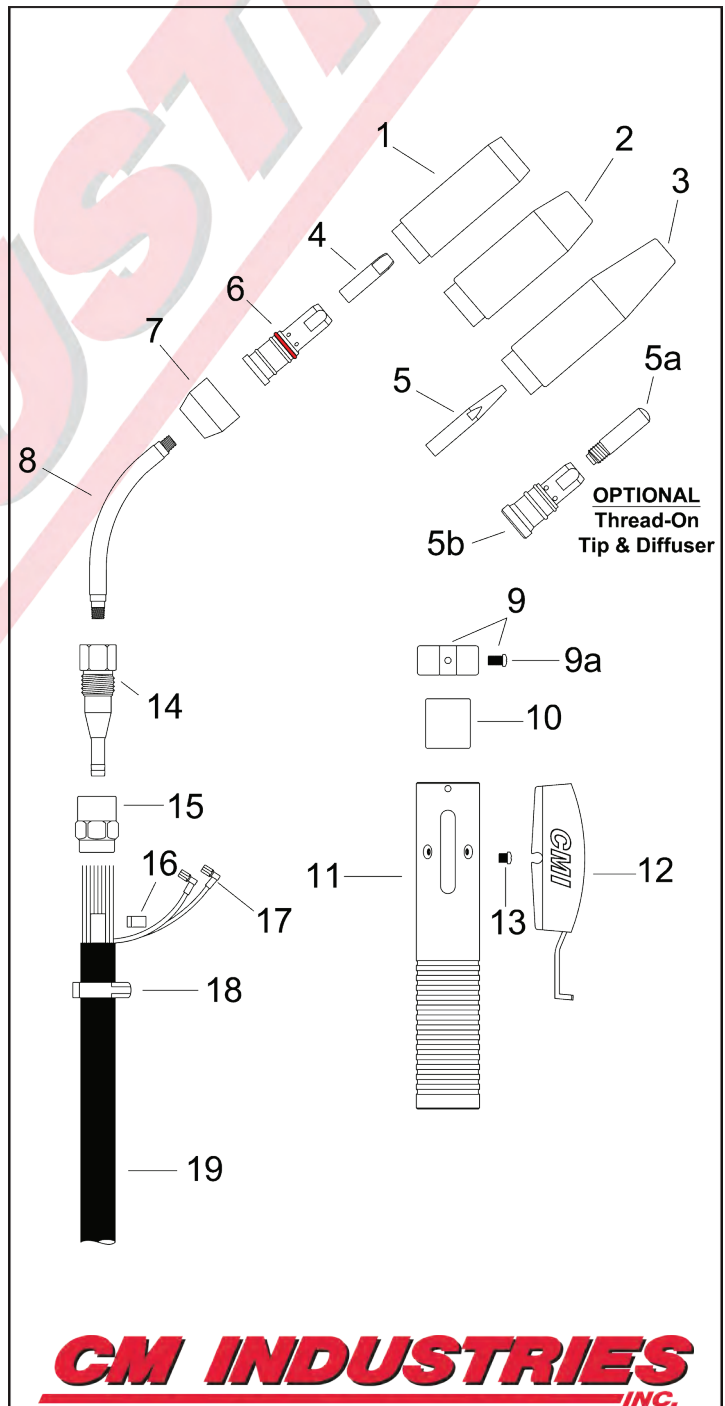
BND 300-G

AIR-COOLED MIG GUN

Replacement Suitable for Bernard®

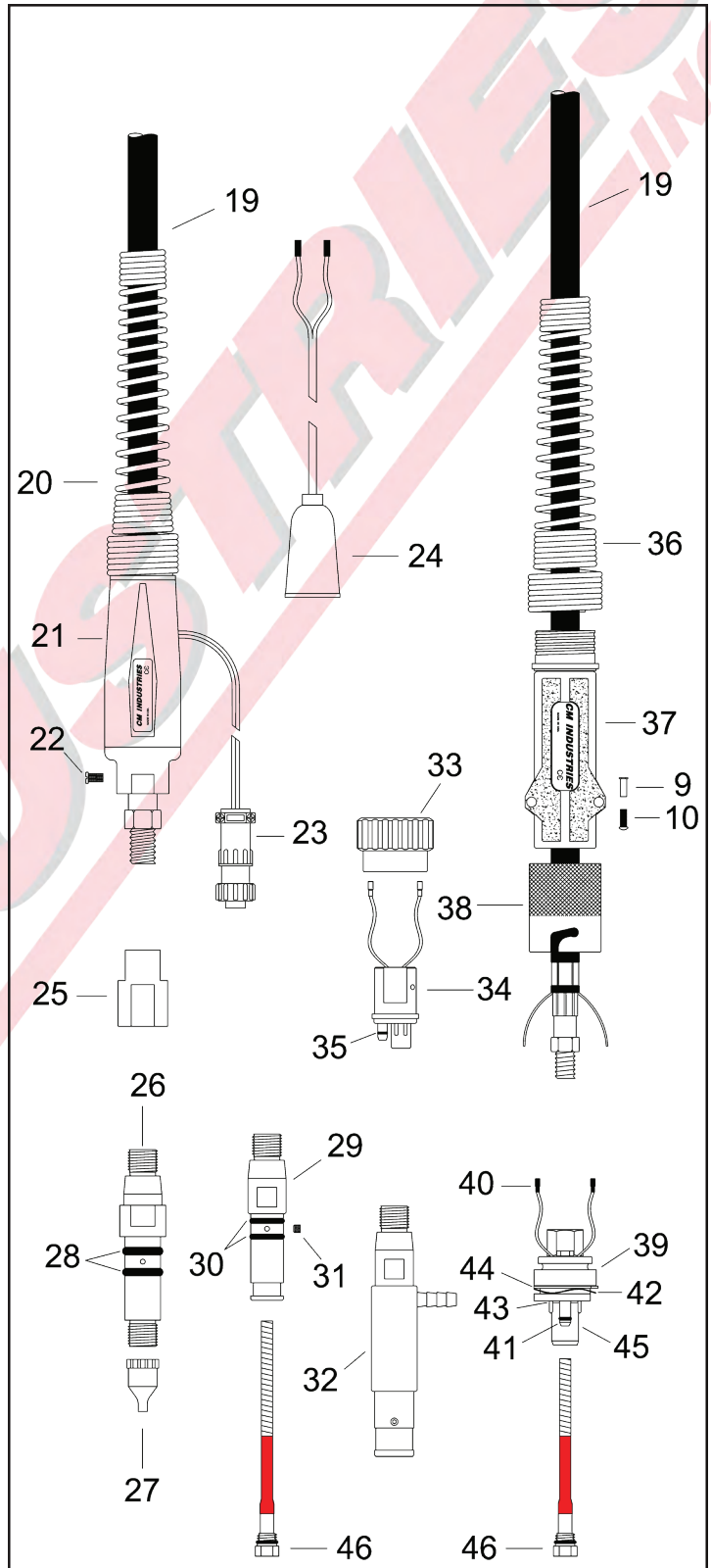
RATING	GUN ORDERING PART NUMBER		POWER PIN Direct Connect
	BOTTOM TRIGGER	TOP TRIGGER	
300 AMP CO2 @ 100% Duty Cycle	B52xxA	B52xxA-TT	Bernard®
250 Amp Mixed Gas @ 100% Duty Cycle	B52xxAE	B52xxAE-TT	Euro
	B52xxAL	B52xxAL-TT	Lincoln® "LN"
	B52xxAM	B52xxAM-TT	Miller®
	B52xxAT	B52xxAT-TT	Tweco®
Wire Capacity: 0.023" (0.6mm) - 1/16" (1.6mm)	xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	B4391 B4393	Nozzle - Brass 5/8" I.D. Nozzle - Copper 5/8" I.D.
2.	B4392 B4394	Nozzle - Brass 1/2" I.D. Nozzle - Copper 1/2" I.D.
3.	B4295	Nozzle - Brass Tapered, Long 11/32" I.D.
4.	B7497 B7488 B7489 B7496 B7490 B7498 B7491	Contact Tip, .023" (0.6mm) Contact Tip, .030" (0.8mm) Contact Tip, .035" (0.9mm) Contact Tip, .040" (1.0mm) Contact Tip, .045" (1.2mm) Contact Tip, .052" (1.4mm) Contact Tip, 1/16" (1.6mm)
5.	B4285 B4281 B4299 B4282 B4283	Contact Tip, Tapered, .030" (0.8mm) Contact Tip, Tapered, .035" (0.9mm) Contact Tip, Tapered, .040" (1.0mm) Contact Tip, Tapered, .045" (1.2mm) Contact Tip, Tapered, .052" (1.4mm)
5a.	GT030H GT035H GT040H GT045H GT364H GT052H GT062H	Contact Tip, H.D. Threaded, .030" (0.8mm) Contact Tip, H.D. Threaded, .035" (0.9mm) Contact Tip, H.D. Threaded, .040" (1.0mm) Contact Tip, H.D. Threaded, .045" (1.2mm) Contact Tip, H.D. Threaded, 3/64" (1.3mm) Contact Tip, H.D. Threaded, .052" (1.4mm) Contact Tip, H.D. Threaded, 1/16" (1.6mm)
5b.	GD514 GD518 GD510	Diffuser, 1/4" Recess, for GT Tips Diffuser, 1/8" Recess, for GT Tips Diffuser, Flush, for GT Tips
6.	B7392	Head Assembly
7.	B5253	Silicone Cap
8.	B5269	Body Tube Assembly
9.	B5218	Spacer Kit
9a.	B608	Handle Screw
10.	B4617	Insulator Spacer
11.	B260	Handle Kit
12.	B422	Trigger Switch Assembly
13.	B418	Trigger Switch Screw
14.	B5213	End Fitting
15.	B4305	Cone Nut
16.	B4991	Clamp, Conduit
17.	B457	Trigger Terminal
18.	B7669	Clamp, Jacket



#	Part Number	Description
19.	B1060109 B1060110 B1060111 B1060112 B1060113	300A Cable Assembly, 10' 300A Cable Assembly, 12' 300A Cable Assembly, 15' 300A Cable Assembly, 20' 300A Cable Assembly, 25'
20.	B2520041-S	Strain Relief Spring
21.	B2520066	Strain Relief Kit
22.	B2280056	Screw
23.	BGN2021	Electrical Plug, Miller
24.	B4719	Electrical Plug, Lincoln
25.	B1010027R	Adaptor Block
26.	R214-1	Power Pin w/ O-Rings, Miller
27.	R214-116	Power Pin Tip, Miller .035" - 1/16"
28.	R414-11-2	O-Ring, Miller
29.	R214	Power Pin w/ O-Rings, Tweco 4
30.	R414-1	O-Ring, Tweco 4
31.	C44C	Set Screw
32.	B214-2	Power Pin, Lincoln "LN"
33.	B4816	Euro Connector Nut
34.	B5060CM	Euro Connector Plug
35.	B4421	O-Ring, Euro
36.	B2520041-S	Strain Relief Spring
37.	B1880074	Rigid Strain Relief Kit
38.	B4925	Locking Sleeve
39.	B4901	Quick Connect Body
40.	B4924	Lead Wire
41.	B4919	Gas Pin Assembly
42.	B4916	Wave Spring
43.	B4912	Snap Ring, Small
44.	B4911	Snap Ring, Large
45.	B2200140 B1880259B	Power Pin, Bernard EZ Bernard Quick Disconnect Kit (38-45)
46.	L1A-15 L2A-15 L3A-15 L4A-15	Liner Assembly, 15', .023"-.030" Liner Assembly, 15', .030"-.035" Liner Assembly, 15', .035"-.045" Liner Assembly, 15', .045"- 1/16"

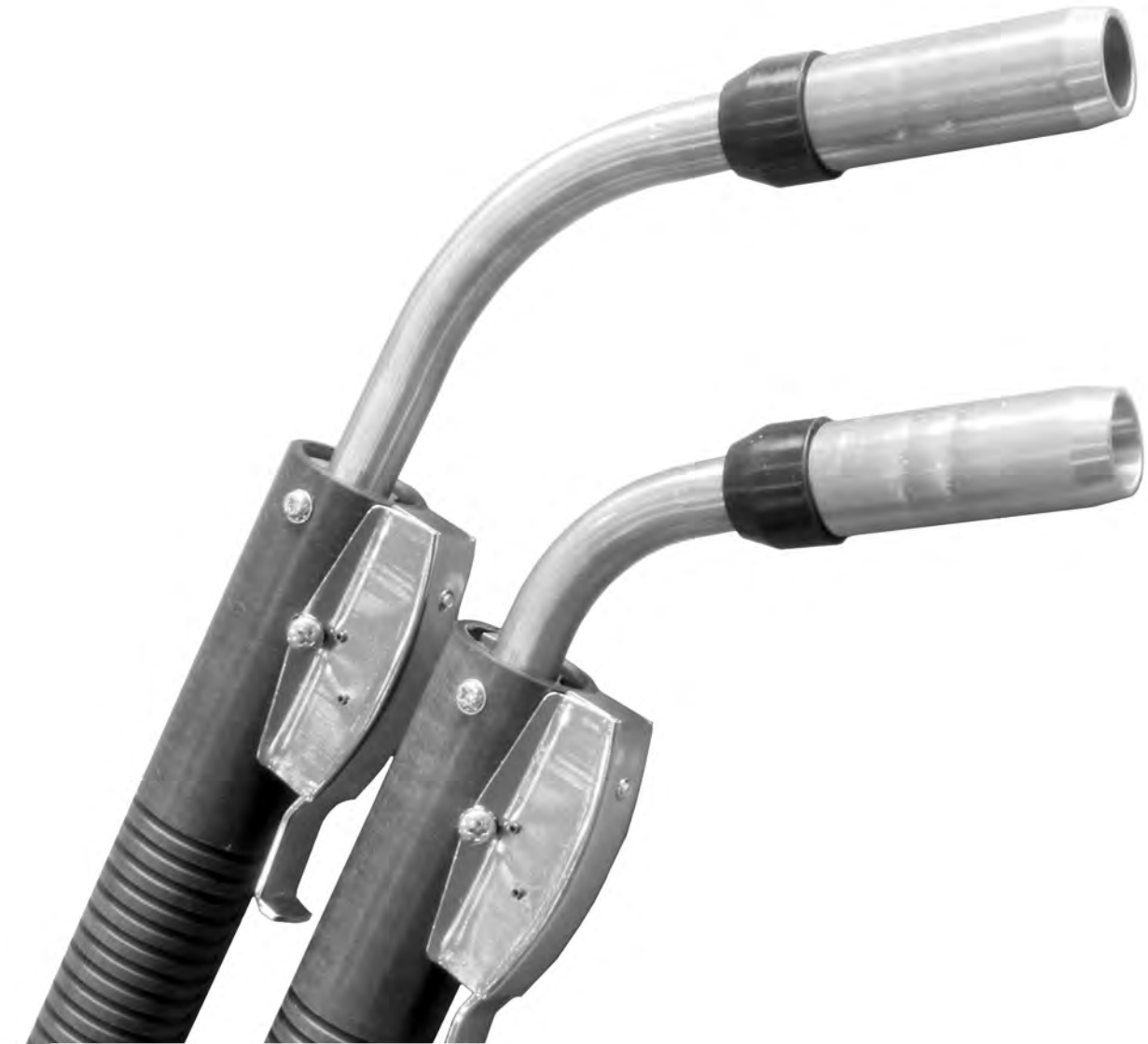
Liners are also available in 25' lengths



CM INDUSTRIES
INC.

BND 400-H & 600-F

Semi-Automatic, Air-Cooled, MIG Welding Gun



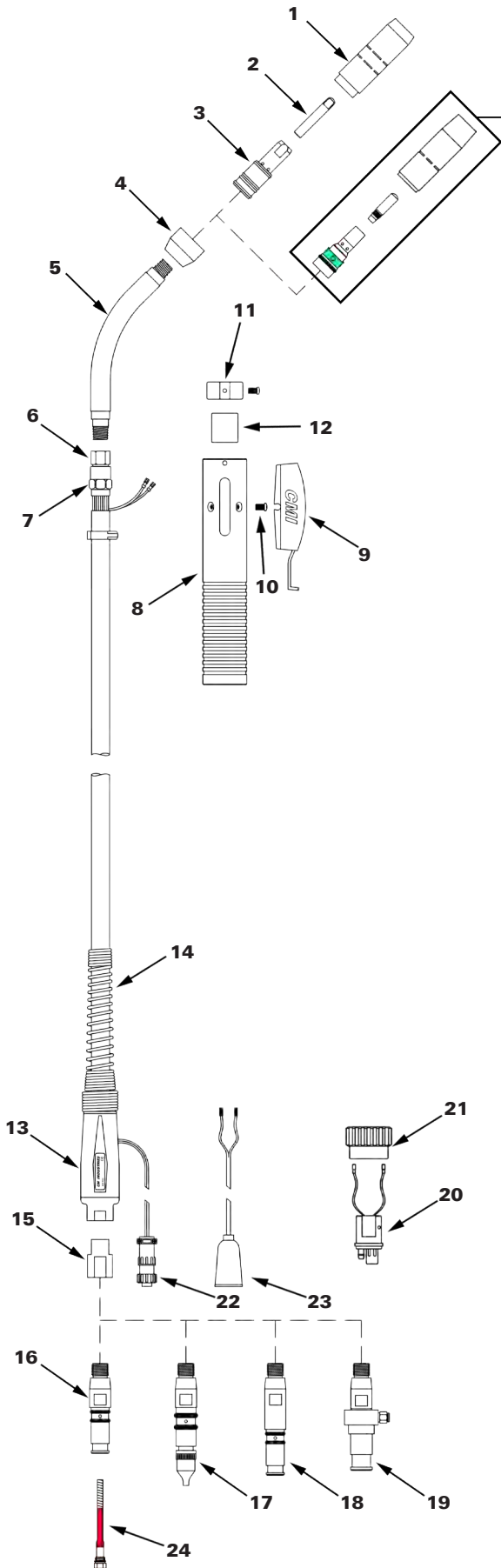
PARTS LIST

MADE IN USA

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047
ph: 847-550-0033 fx: 847-550-0444
email: sales@cmindustries.com
www.cmindustries.com

October 2018 v1.1

PARTS LIST - Replacement Parts for BND 400-H & 600-F



CM Taper-LOCK™ Performance Consumables

ITEM #	PART #		DESCRIPTION
	400-H	600-F	
1	B4491	B4591	Nozzle, 3/4" I.D.
	152-30-62C	152-30-75C	Nozzle, CMI Taper-LOCK™
	See Nozzle Selection		Optional Nozzles
2	See Contact Tip Selection		Contact Tip, Elliptical
	See Contact Tip Selection		Contact Tip, CMI Taper-LOCK™
3	B4435		Diffuser, Short Elliptical Tip (std. 400-H)
	B4635		Diffuser, Long Elliptical Tip (std. 600-F)
	154-B505		Diffuser, CMI Taper-LOCK™
4	B4423R		Neck Insulator
5	B5469	B4627	Neck
6	B4466	B4613	End Fitting
7	B4416	B4616	Cone Nut
8	B408		Handle Kit
9	B429		Trigger Switch Assy. (formally Part# B422)
10	B418		Trigger Switch Screw
11	B1518 B608		Spacer Kit Handle Screw
12	B4617		Spacer Insulator
13	B2520066		Strain Relief Kit
14	B2520041		Strain Relief Spring
15	B1010027R		Adapter Block
16	214		Power Pin, Tweco® #4
17	214-1		Power Pin, Miller®
	214-116		Power Pin Cap, .023"-1/16"
	214-332		Power Pin Cap, 5/64"-3/32"
18	214-25		Power Pin, Lincoln® PM & LF
19	214-7		Power Pin, Lincoln® LN
20	B5060CM		Euro Connector Plug
21	B4816		Euro Connector Nut
22	BGN2021		Control Plug, Miller® / Lincoln® PM
23	B4719		Control Plug, Lincoln® LN & LF
24	See Liner Selection		Liner

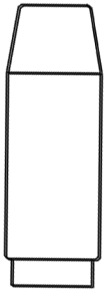


Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

Nozzles (Optional Available)

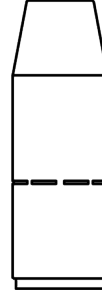
Comparable to Bernard™ Nozzles



400-H & 600-F

B4491	Brass 3/4" I.D. (std. 400-H)
B4591	Copper 3/4" I.D. (std. 600-F)
B4492	Brass 9/16" I.D.
B4592	Copper 9/16" I.D.
B4495	Brass 5/8" I.D.
B4591HD	Copper, Heavy Duty 3/4" I.D.
B4592HD	Copper, Heavy Duty 9/16" I.D.

CM Industries Taper-LOCK™ Nozzles



Heavy Duty, Copper

152-30-50C	1/2" Bore, 1/8" Tip Recess
152-30-62C	5/8" Bore, 1/8" Tip Recess
152-31-562	5/8" Bore, 1/4" Tip Recess
152-32-62C	5/8" Bore, Flush Tip
152-33-62C	5/8" Bore, 1/8" Tip Stickout
152-34-62C	5/8" Bore, 1/4" Tip Stickout

Contact Tips

Comparable to Bernard™ Elliptical Contact Tips

Short



B7488	0.030" (0.8mm)
B7489	0.035" (0.9mm)
B7490	0.045" (1.2mm)
B7491	1/16" (1.6mm)
B7492	5/64" (2.0mm)
B7493	3/32" (2.4mm)
B7494	7/64" (2.8mm)
B7495	1/8" (3.2mm)
B7496	0.040" (1.0mm)
B7497	0.023" (0.6mm)
B7498	0.052" (1.4mm)

Long



B1588	0.030" (0.8mm)
B1589	0.035" (0.9mm)
B1590	0.045" (1.2mm)
B1591	1/16" (1.6mm)
B1592	5/64" (2.0mm)
B1593	3/32" (2.4mm)
B1594	7/64" (2.8mm)
B1595	1/8" (3.2mm)
B1596	0.040" (1.0mm)
B1597	0.023" (0.6mm)
B1598	0.052" (1.4mm)

CM Industries Taper-LOCK™ Contact Tips

Heavy Duty



155-1-030	0.030" (0.8mm)
155-1-035	0.035" (0.9mm)
155-1-040	0.040" (1.0mm)
155-1-045	.045" (1.2mm)
155-1-364	3/64" (1.2mm)
155-1-052	0.052" (1.4mm)
155-1-062	0.062" (1.6mm)
155-1-1.8	0.071" (1.8mm)
155-1-564	5/64" (2.0mm)
155-1-332	3/32" (2.4mm)
155-1-764	7/64" (2.8mm)

X-tra Heavy Duty



155-3-035	0.035" (0.9mm)
155-3-045	0.045" (1.2mm)
155-3-052	0.052" (1.4mm)
155-3-062	0.062" (1.6mm)
155-3-564	5/64" (2.0mm)
155-3-332	3/32" (2.4mm)
155-3-764	7/64" (2.8mm)

Liners

Universal Conventional Liners

10' (3.05m) Gun Lengths

L3A-10	for 0.035" - 0.045" wire
L4A-10	for 0.045" - 1/16" wire

15' (4.57m) Gun Lengths

L1A-15	for 0.023" - 0.030" wire
L2A-15	for 0.030" - 0.035" wire
L3A-15	for 0.035" - 0.045" wire
L4A-15	for 0.045" - 1/16" wire
L6A-15	for 5/64" wire
L7A-15	for 3/32" wire
L8A-15	for 7/64" - 1/8" wire

25' (7.62m) Gun Lengths

L1A-25	for 0.023" - 0.030" wire
L2A-25	for 0.030" - 0.035" wire
L3A-25	for 0.035" - 0.045" wire
L4A-25	for 0.045" - 1/16" wire
L6A-25	for 5/64" wire
L7A-25	for 3/32" wire
L8A-25	for 7/64" - 1/8" wire

Conventional Liners for Aluminum

10' (3.05m) Gun Lengths

415-45-02	for 0.035" - 3/64" wire Polymer Liner
415-116-22	for 3/64" - 1/16" wire Polymer Liner

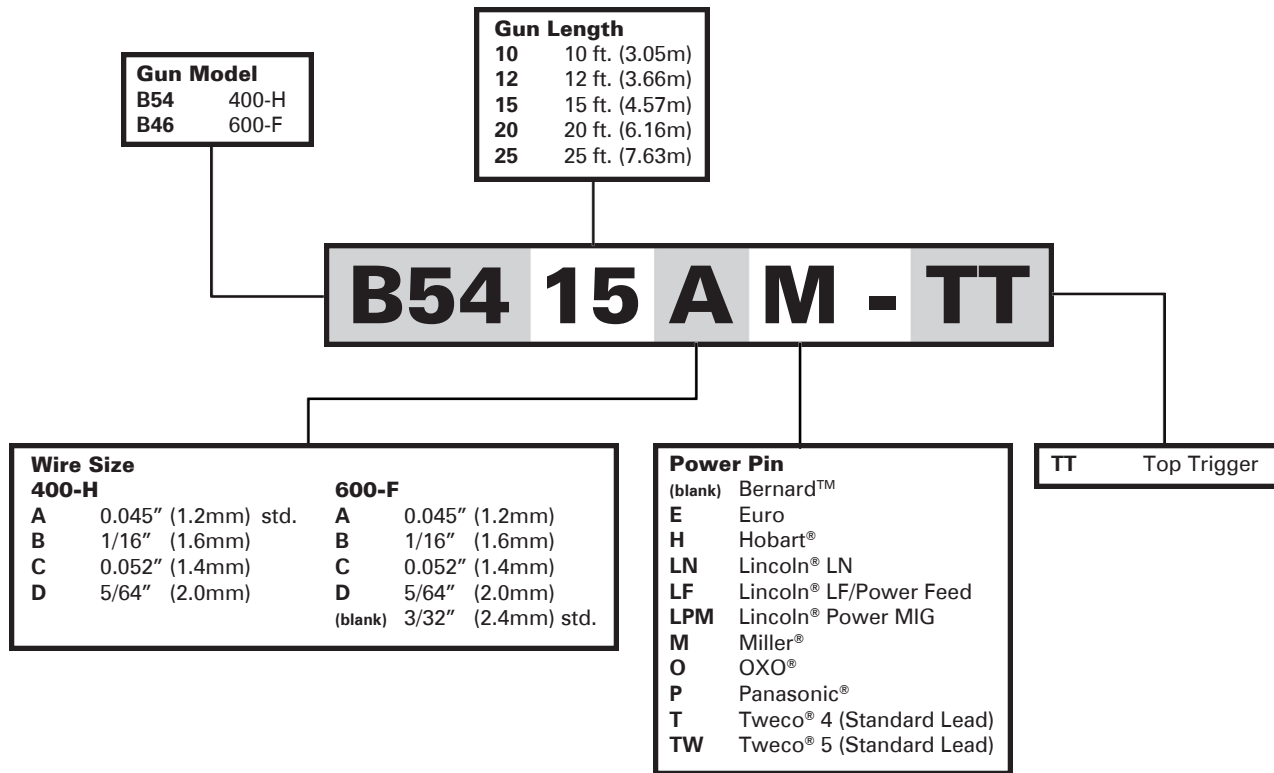
15' (4.57m) Gun Lengths

415-45-03	for 0.035" - 3/64" wire Polymer Liner
415-35-2	for 0.035" - 0.045" wire Steel Wrapped Nylon
415-116-2	for 0.045" - 1/16" wire Steel Wrapped Nylon
415-116-23	for 0.045" - 1/16" wire Polymer Liner

25' (7.62m) Gun Lengths


415-45-04	for 0.035" - 3/64" wire Polymer Liner
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Ordering Information




CM Industries, Inc. is in no way affiliated with above-named manufacturers. References to above-named parts, feeders, and part numbers are for your reference only.

SAFETY WARNINGS! READ BEFORE USE


 The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the welding power source Owner's Manual.

 Read and follow all Safety Standards. Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.


 During operation, keep everybody, especially children, away.

 **ELECTRIC SHOCK can kill.**


- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Replace worn, damaged, or cracked guns or cables.
- Turn off welding power source before changing contact tip or gun parts.
- Keep all covers and handle securely in place.

 **FUMES AND GASES can be hazardous.**

- Keep your head out of the fumes.
- Ventilate area, or use breathing device. The recommended way to determine adequate ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

 **WELDING can cause fire or explosion.**

- Do not weld near flammable material.
- Do not weld on containers that have held combustibles, or on closed containers such as tanks, drums, or pipes unless they are properly prepared according to AWS F4.1 and AWS A6.0 (see Safety Standards).
- Watch for fire; keep extinguisher nearby.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

 **HOT PARTS can burn.**

- Allow gun to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.



MOVING PARTS can injure.

- Keep away from moving parts.
- Keep away from pinch points such as drive rolls.



ARC RAYS can burn eyes and skin.

- Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.
- Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes from arc rays and sparks when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards).
 - Wear approved safety glasses with side shields under your helmet.
 - Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.
 - Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.



BUILDUP OF GAS can injure or kill.

- Shut off compressed gas supply when not in use.
- Always ventilate confined spaces or use approved air-supplied respirator.



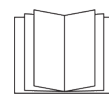
NOISE can damage hearing.

- Noise from some processes or equipment can damage hearing.
- Check for noise level limits exceeding those specified by OSHA.
 - Use approved ear plugs or ear muffs if noise level is high.
 - Warn others nearby about noise hazard.



WELDING WIRE can injure.

- Keep hands and body away from gun tip when trigger is pressed.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit.
- Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
 - Perform installation, maintenance, and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

CALIFORNIA PROPOSITION 65 WARNING

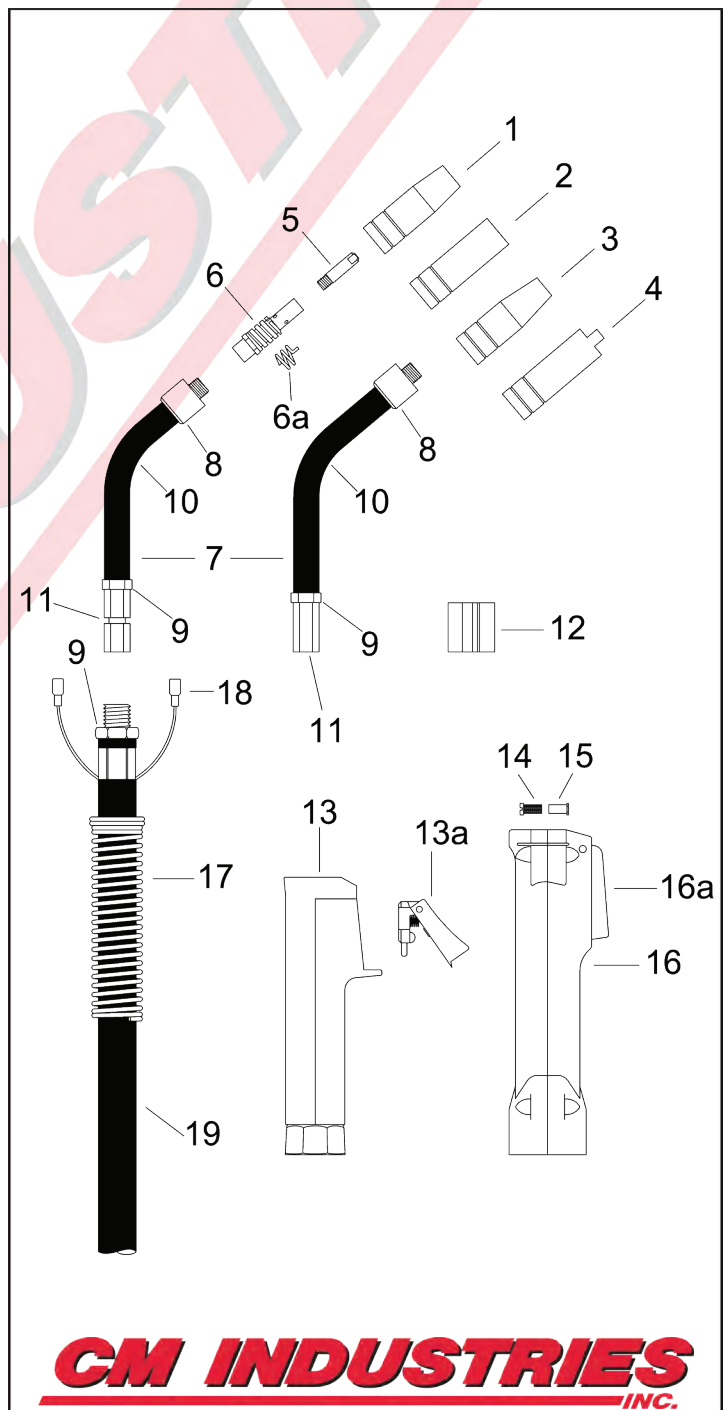
This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use.
(California Health & Safety Code Section 25249.5)

BNZ 14A & 15A AIR-COOLED MIG GUN

Replacement Suitable for Binzel®

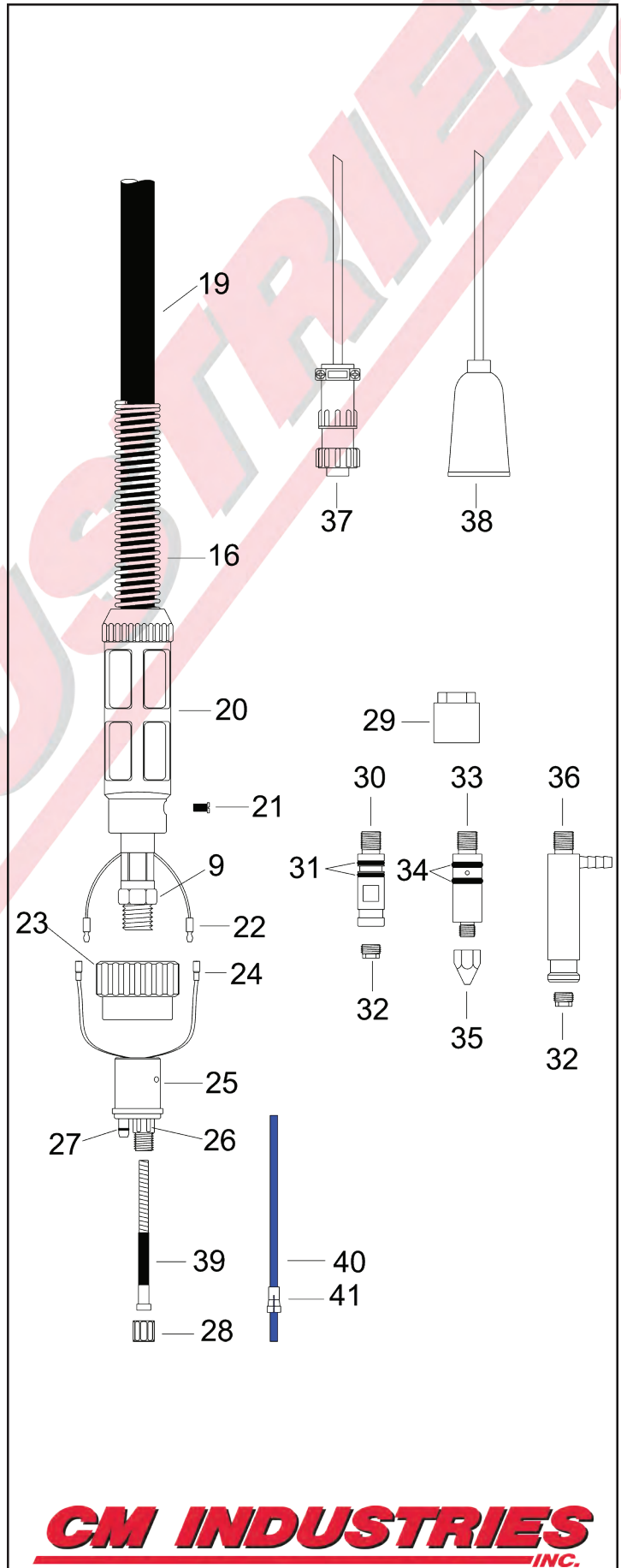
RATING	GUN ORDERING PART NUMBER		POWER PIN Direct Connect
160-180 Amp CO2 @ 60% Duty Cycle 140-150 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	14A	15A	Euro Century® Lincoln® "LN" Lincoln® Power MIG™ Miller® Tweco® #4
	700-14-010 700-14-C10 700-14-L10 700-14-R10 700-14-M10 700-14-T10	700-15-010 700-15-C10 700-15-L10 700-15-R10 700-15-M10 700-15-T10	
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.			

#	Part Number	Description
1.	165-15-001	Nozzle, Conical, 1/2" I.D., Std.
2.	165-15-002	Nozzle, Cylindrical, 5/8" I.D.
3.	165-15-011	Nozzle, Conical Small, 3/8" I.D.
4.	165-15-003	Nozzle, Spot, 5/8" I.D.
5.	150-06-102	Contact Tip, M6, .024" 0.6mm
	150-08-102	Contact Tip, M6, .030" 0.8mm, Std.
	150-09-102	Contact Tip, M6, .035" 0.9mm
	150-10-102	Contact Tip, M6, .040" 1.0mm
	150-12-102	Contact Tip, M6, .045" 1.2mm
6.	035-14-006	Nozzle Holder, Gas Diffuser, Left Handed
6a.	035-15-001	Nozzle Spring
7.	051-13-445	Swan Neck Assembly, 45° Left Handed (14A)
	051-15-445	Swan Neck Assembly, 45° Left Handed (15A)
	051-15-445	Swan Neck Assembly, 45° Left Handed (15A)
	051-15-001	Swan Neck Assembly, Flexible (15A) (Includes items 6-10)
8.	046-15-010	Head Insulator
9.	290-01-010	Lock Nut, M10 x 1
10.	047-15-002	Replacement Boot
11.	290-01-014	Hex Coupler (14A)
	290-01-015	Hex Coupler (15A)
12.	047-00-100	Body Insulator (15A)
13.	170-14-001	Handle Assembly w/out Switch (14A)
13a.	170-14-100	Trigger Switch (14A)
14.	170-66-005	Handle Screw (15A)
15.	170-66-009	Handle Post (15A)
16.	170-66-002	Handle Assembly Complete w/ Screws (15A)
16a.	170-66-000	Trigger Only (15A)
17.	185-26-001	Cable Support Spring (15A)
18.	300-05-003	Trigger Wire Connector (14A)
	300-05-004	Trigger Wire Connector (15A)



CM INDUSTRIES
INC.

#	Part Number	Description
19.	210-15-010	Power Cable, 10'
	210-15-012	Power Cable, 12'
	210-15-015	Power Cable, 15'
20.	260-25-002	Adaptor Support
21.	285-01-001	Adaptor Support Screw
22.	300-05-010	Male Electrical Connector
23.	401-00-001	Adaptor Nut
24.	300-05-009	Female Electrical Connector
25.	401-02-014	Connector Block, Complete
26.	285-03-002	Male Pin w/ Lead
27.	285-00-002	O-Ring, Connector Block
28.	401-01-001	Liner Retaining Nut
29.	401-02-012	Connector Plug Block
30.	401-02-016	Connector Plug, Hobart/Tweco/Lincoln P.M.
31.	C224	O-Ring
32.	401-01-004	Liner Retaining Plug
33.	401-02-017	Connector Plug, Miller
34.	M079-974	O-Ring, Miller
35.	401-01-002	Liner Nut, Miller
36.	401-02-015	Connector Plug, Lincoln
37.	300-05-001	Electrical Plug, Miller
38.	300-05-002	Electrical Plug, Lincoln
39.	241-26-016	Liner #26, 15', .023"-.035"
	241-22-016	Liner #22, 15', .035"-.045"
40.	255-18-010	Teflon Liner #18, 10', .023"-.035"
	255-18-010	Teflon Liner #18, 10', .023"-.035"
	255-18-010	Teflon Liner #18, 10', .023"-.035"
	255-10-010	Teflon Liner #10, 10', .035"-.045"
	255-10-012	Teflon Liner #10, 12', .035"-.045"
	255-10-015	Teflon Liner #10, 15', .035"-.045"
41.	259-10-001	Repl. Collet, Teflon Liner #10 & #18



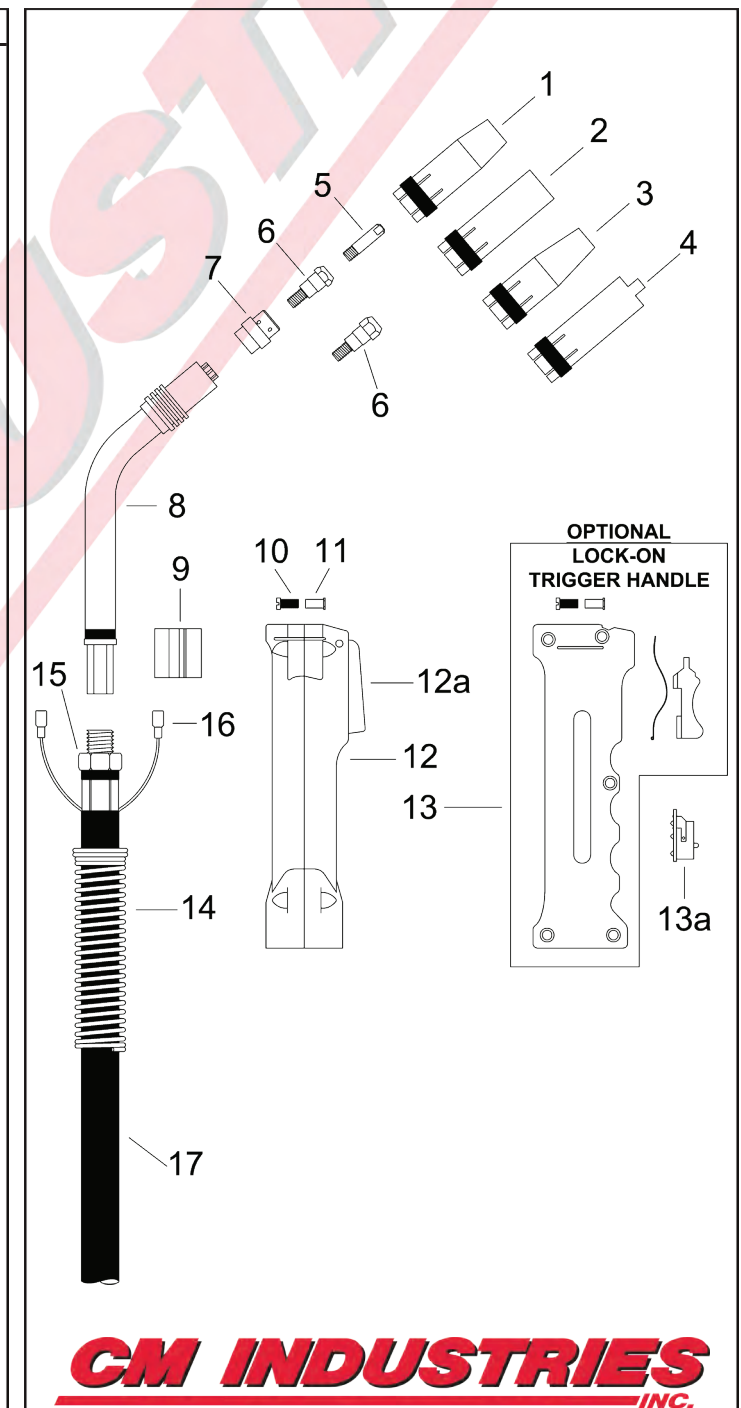
BNZ 24A

AIR-COOLED MIG GUN

Replacement Suitable for Binzel®

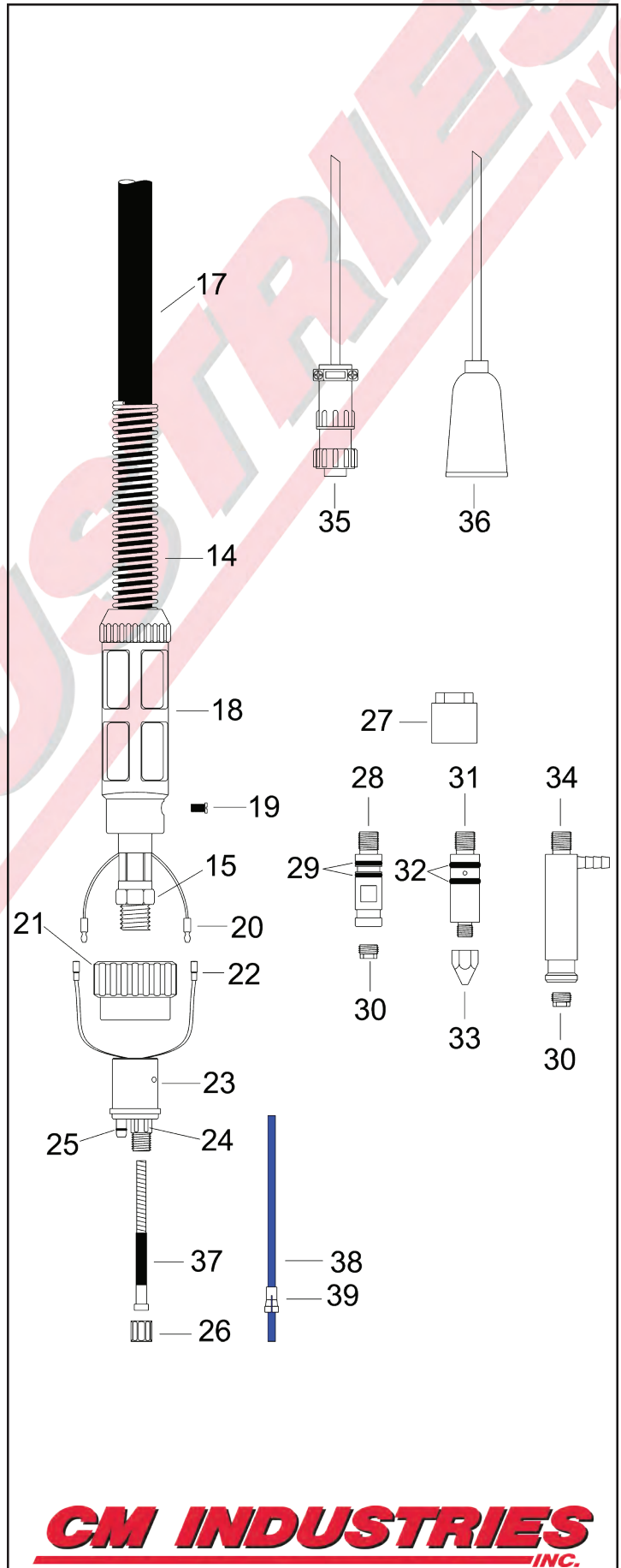
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
250 Amp CO2 @ 60% Duty Cycle 200 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	700-24-0xx	Euro
	700-24-Cxx	Century®
	700-24-Lxx	Lincoln® "LN"
	700-24-Rxx	Lincoln® Power MIG™
	700-24-Mxx	Miller®
	700-24-Txx	Tweco® #4
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	165-24-001	Nozzle, Conical, 1/2" I.D., Std.
2.	165-24-002	Nozzle, Cylindrical, 11/16" I.D.
3.	165-24-011	Nozzle, Conical Small, 3/8" I.D.
4.	165-24-003	Nozzle, Spot, 11/16"
5.	150-06-102	Contact Tip, M6, .024" 0.6mm
	150-08-102	Contact Tip, M6, .030" 0.8mm
	150-09-102	Contact Tip, M6, .035" 0.9mm, Std.
	150-10-102	Contact Tip, M6, .040" 1.0mm
	150-12-102	Contact Tip, M6, .045" 1.2mm
6.	160-06-024	Contact Tip Holder, M6, Std.
	160-06-124	Contact Tip Holder, Long, M6
7.	046-24-001	Insulator/Gas Diffuser, Std.
8.	051-24-050	Swan Neck, 50°
9.	047-00-100	Body Insulator
10.	170-66-005	Handle Screw
11.	170-66-009	Handle Post
12.	170-66-002	Handle, Complete w/ Screws & Posts
12a.	170-66-000	Trigger Only
	185-66-003	Replacement Switch Assembly
13.	170-66-102	Handle Assembly w/ Locking Trigger (Optional)
13a.	185-66-023	Micro Switch for Locking Trigger
14.	185-26-001	Cable Support Spring
15.	290-01-010	Hex Nut
16.	300-05-004	Trigger Wire Connector, Large
17.	210-20-010	Power Cable, 10'
	210-20-012	Power Cable, 12'
	210-20-015	Power Cable, 15'



CM INDUSTRIES
INC.

#	Part Number	Description
18.	260-25-002	Adaptor Support
19.	285-01-001	Adaptor Support Screw
20.	300-05-010	Male Electrical Connector
21.	401-00-001	Adaptor Nut
22.	300-05-009	Female Electrical Connector
23.	401-02-014	Connector Block, Complete
24.	285-03-002	Male Pin w/ Lead
25.	285-00-002	O-Ring, Connector Block
26.	401-01-001	Liner Retaining Nut
27.	401-02-012	Connector Plug Block
28.	401-02-016	Connector Plug, Hobart/Tweco/Lincoln P.M.
29.	C224	O-Ring
30.	401-01-004	Liner Retaining Plug
31.	401-02-017	Connector Plug, Miller
32.	M079-974	O-Ring, Miller
33.	401-01-002	Liner Nut, Miller
34.	401-02-015	Connector Plug, Lincoln
35.	300-05-001	Electrical Plug, Miller
36.	300-05-002	Electrical Plug, Lincoln
37.	241-26-016 241-22-016	Liner #26, 15', .023"-.035" Liner #22, 15', .035"-.045"
38.	255-18-010 255-18-010 255-18-010	Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 10', .023"-.035"
	255-10-010 255-10-012 255-10-015	Teflon Liner #10, 10', .035"-.045" Teflon Liner #10, 12', .035"-.045" Teflon Liner #10, 15', .035"-.045"
39.	259-10-001	Repl. Collet, Teflon Liner #10 & #18



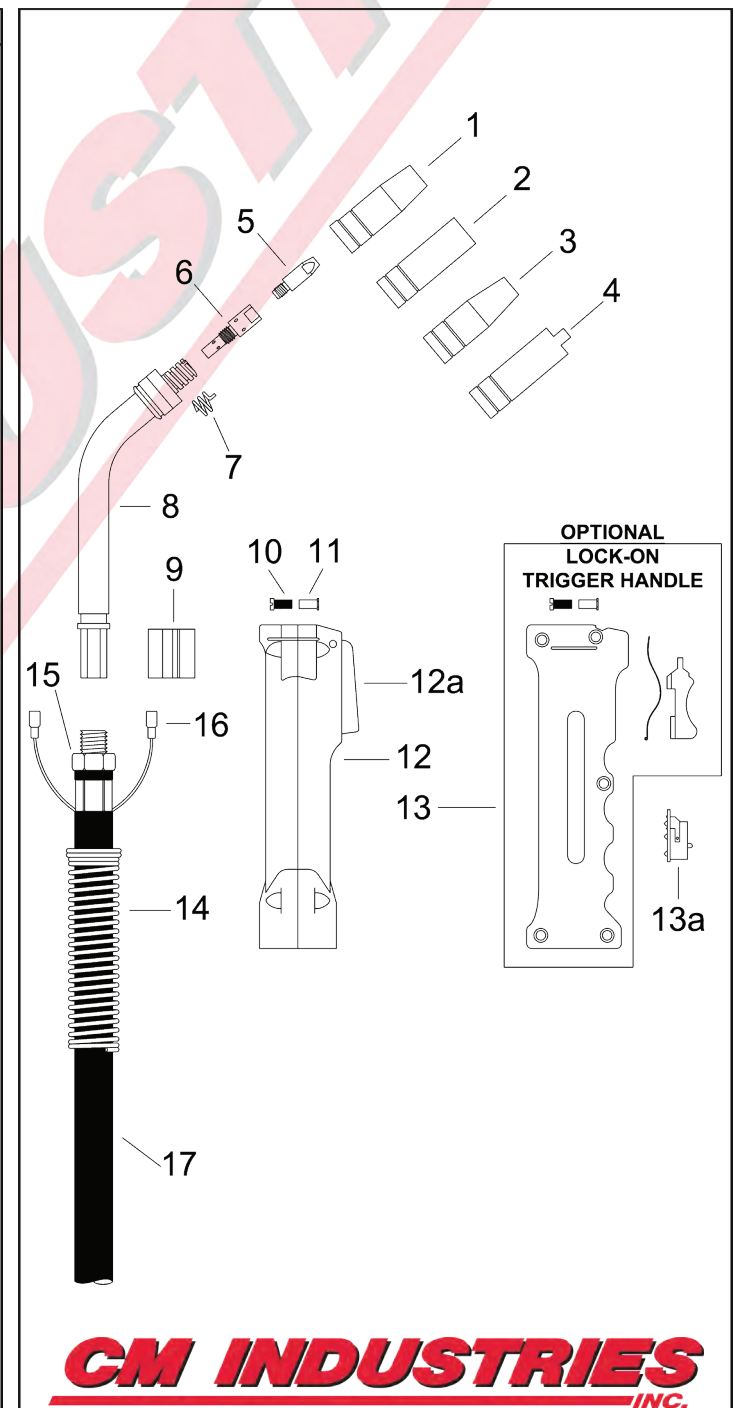
BNZ 25A

AIR-COOLED MIG GUN

Replacement Suitable for Binzel®

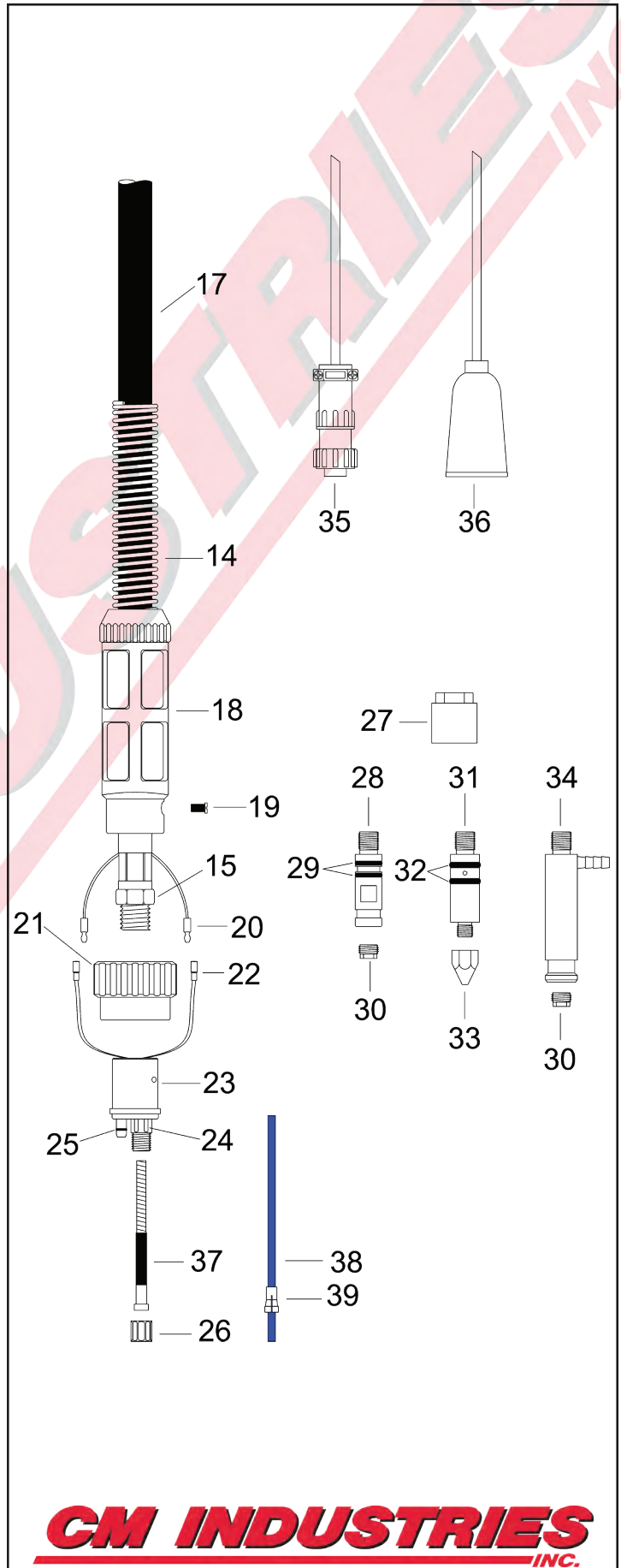
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
250 Amp CO2 @ 60% Duty Cycle 200 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.030" (0.8mm) - 0.045" (1.2mm)	700-25-0xx	Euro
	700-25-Cxx	Century®
	700-25-Lxx	Lincoln® "LN"
	700-25-Rxx	Lincoln® Power MIG™
	700-25-Mxx	Miller®
	700-25-Txx	Tweco® #4
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	165-25-001	Nozzle, Conical, 9/16" I.D., Std.
2.	165-25-002	Nozzle, Cylindrical, 11/16" I.D.
3.	165-25-011	Nozzle, Conical Small, 7/16" I.D.
4.	165-25-003	Nozzle, Spot, 11/16"
5.	150-06-120 150-08-120 150-09-120 150-10-120 150-12-120	Contact Tip, M6, .024" 0.6mm Contact Tip, M6, .030" 0.8mm Contact Tip, M6, .035" 0.9mm, Std. Contact Tip, M6, .040" 1.0mm Contact Tip, M6, .045" 1.2mm
6.	160-06-025	Contact Tip Holder, M6, Std.
7.	035-25-002	Nozzle Spring
8.	051-25-050 051-25-001	Swan Neck, 50° Swan Neck, Flexible
9.	047-00-100	Body Insulator
10.	170-66-005	Handle Screw
11.	170-66-009	Handle Post
12.	170-66-002	Handle, Complete w/ Screws & Posts
12a.	170-66-000 185-66-003	Trigger Only Replacement Switch Assembly
13.	170-66-102	Handle Assembly w/ Locking Trigger (Optional)
13a.	185-66-023	Micro Switch for Locking Trigger
14.	185-26-001	Cable Support Spring
15.	290-01-010	Hex Nut
16.	300-05-004	Trigger Wire Connector, Large
17.	210-25-010 210-25-012 210-25-015	Power Cable, 10' Power Cable, 12' Power Cable, 15'



CM INDUSTRIES
INC.

#	Part Number	Description
18.	260-25-002	Adaptor Support
19.	285-01-001	Adaptor Support Screw
20.	300-05-010	Male Electrical Connector
21.	401-00-001	Adaptor Nut
22.	300-05-009	Female Electrical Connector
23.	401-02-014	Connector Block, Complete
24.	285-03-002	Male Pin w/ Lead
25.	285-00-002	O-Ring, Connector Block
26.	401-01-001	Liner Retaining Nut
27.	401-02-012	Connector Plug Block
28.	401-02-016	Connector Plug, Hobart/Tweco/Lincoln P.M.
29.	C224	O-Ring
30.	401-01-004	Liner Retaining Plug
31.	401-02-017	Connector Plug, Miller
32.	M079-974	O-Ring, Miller
33.	401-01-002	Liner Nut, Miller
34.	401-02-015	Connector Plug, Lincoln
35.	300-05-001	Electrical Plug, Miller
36.	300-05-002	Electrical Plug, Lincoln
37.	241-26-016 241-22-016	Liner #26, 15', .023"-.035" Liner #22, 15', .035"-.045"
38.	255-18-010 255-18-010 255-18-010	Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 10', .023"-.035"
	255-10-010 255-10-012 255-10-015	Teflon Liner #10, 10', .035"-.045" Teflon Liner #10, 12', .035"-.045" Teflon Liner #10, 15', .035"-.045"
39.	259-10-001	Repl. Collet, Teflon Liner #10 & #18



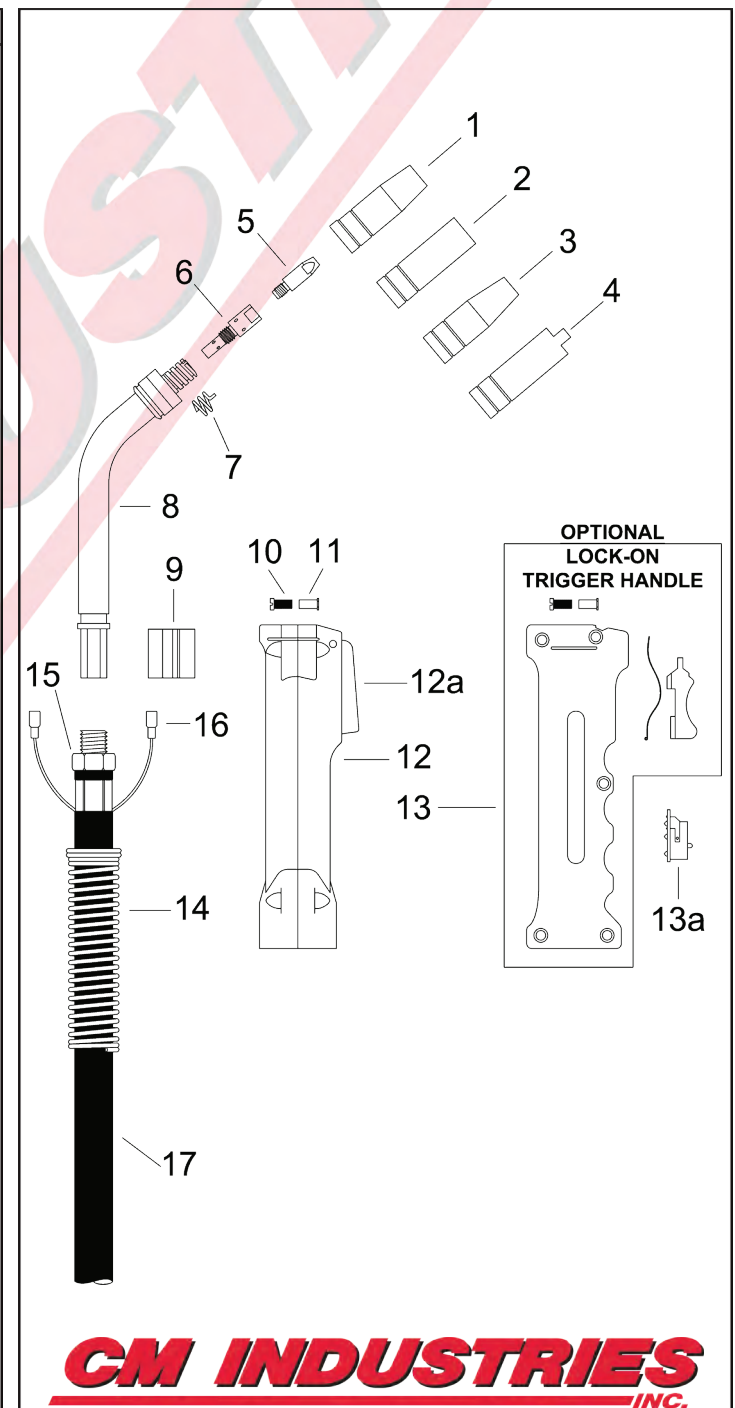
BNZ 26A

AIR-COOLED MIG GUN

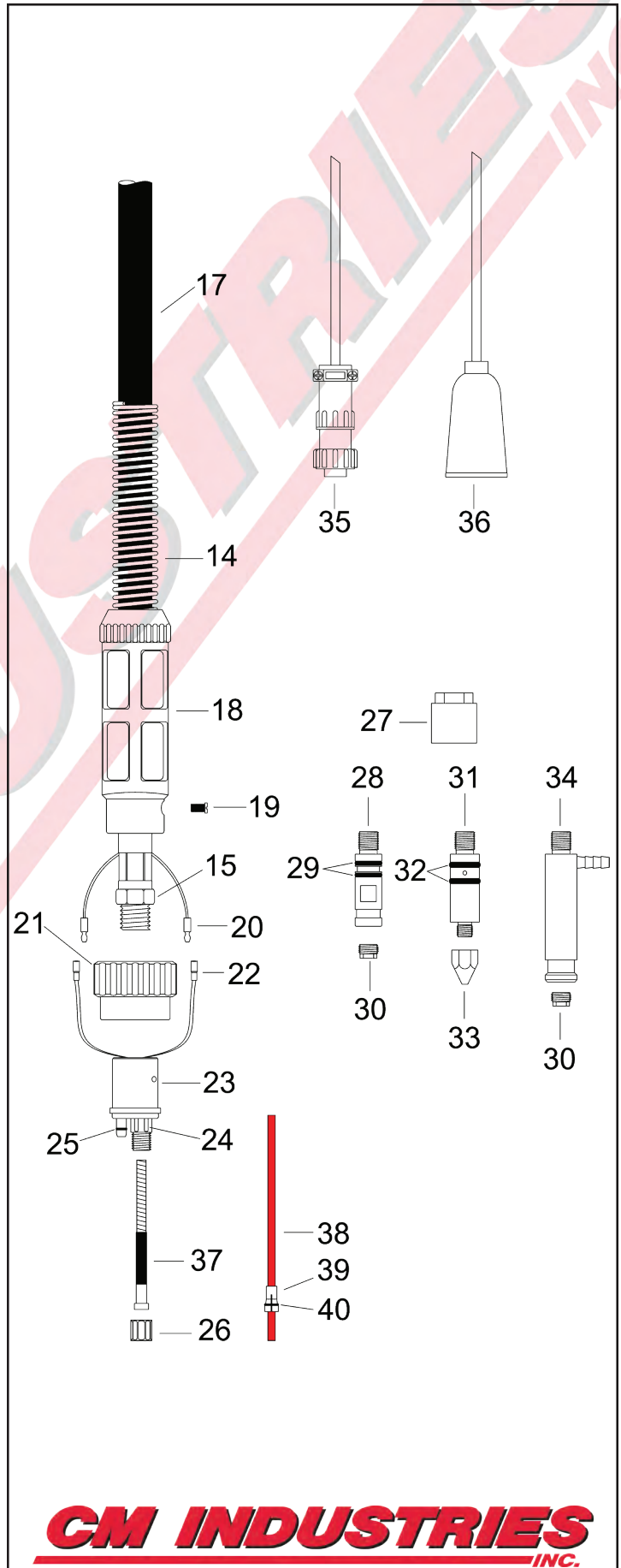
Replacement Suitable for Binzel®

RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
290 Amp CO2 @ 60% Duty Cycle 260 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.030" (0.8mm) - 0.045" (1.2mm)	700-26-0xx	Euro
	700-26-Cxx	Century®
	700-26-Lxx	Lincoln® "LN"
	700-26-Rxx	Lincoln® Power MIG™
	700-26-Mxx	Miller®
	700-26-Txx	Tweco® #4
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	165-52-001	Nozzle, Conical, 5/8" I.D., Std.
2.	165-52-002	Nozzle, Cylindrical, 3/4" I.D.
	165-52-003	Nozzle, Spot, 3/4"
3.	165-52-011	Nozzle, Conical Small, 9/16" I.D.
	165-52-111	Nozzle, Conical Super Small, 7/16" I.D.
4.	150-06-120	Contact Tip, M6, .024" 0.6mm
	150-08-120	Contact Tip, M6, .030" 0.8mm
	150-09-120	Contact Tip, M6, .035" 0.9mm, Std.
	150-10-120	Contact Tip, M6, .040" 1.0mm
	150-12-120	Contact Tip, M6, .045" 1.2mm
	150-14-120	Contact Tip, M6, .052" 1.4mm
	150-16-120	Contact Tip, M6, 1/16" 1.6mm
5.	160-06-026	Contact Tip Holder, M6, Std.
	160-08-026	Contact Tip Holder, M8, H.D.
6.	160-06-126	Contact Tip Holder, Long, M6
	160-08-126	Contact Tip Holder, Long, M8, H.D.
7.	046-26-001	Insulator/Gas Diffuser, Std.
8.	051-26-050	Swan Neck, 50°
9.	047-00-100	Body Insulator
10.	170-66-005	Handle Screw
11.	170-66-009	Handle Post
12.	170-66-002	Handle, Complete w/ Screws & Posts
12a.	170-66-000	Trigger Only
	185-66-003	Replacement Switch Assembly
13.	170-66-102	Handle Assembly w/ Locking Trigger (Optional)
13a.	185-66-023	Micro Switch for Locking Trigger
14.	185-26-001	Cable Support Spring
15.	290-01-010	Hex Nut
16.	300-05-004	Trigger Wire Connector, Large
17.	210-25-010	Power Cable, 10'
	210-25-012	Power Cable, 12'
	210-25-015	Power Cable, 15'
	210-25-020	Power Cable, 20'
	210-25-025	Power Cable, 25'



#	Part Number	Description
18.	260-25-002	Adaptor Support
19.	285-01-001	Adaptor Support Screw
20.	300-05-010	Male Electrical Connector
21.	401-00-001	Adaptor Nut
22.	300-05-009	Female Electrical Connector
23.	401-02-014	Connector Block, Complete
24.	285-03-002	Male Pin w/ Lead
25.	285-00-002	O-Ring, Connector Block
26.	401-01-001	Liner Retaining Nut
27.	401-02-012	Connector Plug Block
28.	401-02-016	Connector Plug, Hobart/Tweco/Lincoln P.M.
29.	C224	O-Ring
30.	401-01-004	Liner Retaining Plug
31.	401-02-017	Connector Plug, Miller
32.	M079-974	O-Ring, Miller
33.	401-01-002	Liner Nut, Miller
34.	401-02-015	Connector Plug, Lincoln
35.	300-05-001	Electrical Plug, Miller
36.	300-05-002	Electrical Plug, Lincoln
37.	241-26-016 241-22-016	Liner #26, 15', .023"-.035" Liner #22, 15', .035"-.045"
38.	255-18-010 255-18-012 255-18-015	Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 12', .023"-.035" Teflon Liner #18, 15', .023"-.035"
	255-10-010 255-10-012 255-10-015	Teflon Liner #10, 10', .035"-.045" Teflon Liner #10, 12', .035"-.045" Teflon Liner #10, 15', .035"-.045"
	255-05-010 255-05-012 255-05-015	Teflon Liner #5, 10', .045"-1/16" Teflon Liner #5, 12', .045"-1/16" Teflon Liner #5, 15', .045"-1/16"
39.	259-10-001	Repl. Collet, Teflon Liner #10 & #18
40.	285-00-003	Repl. O-Ring



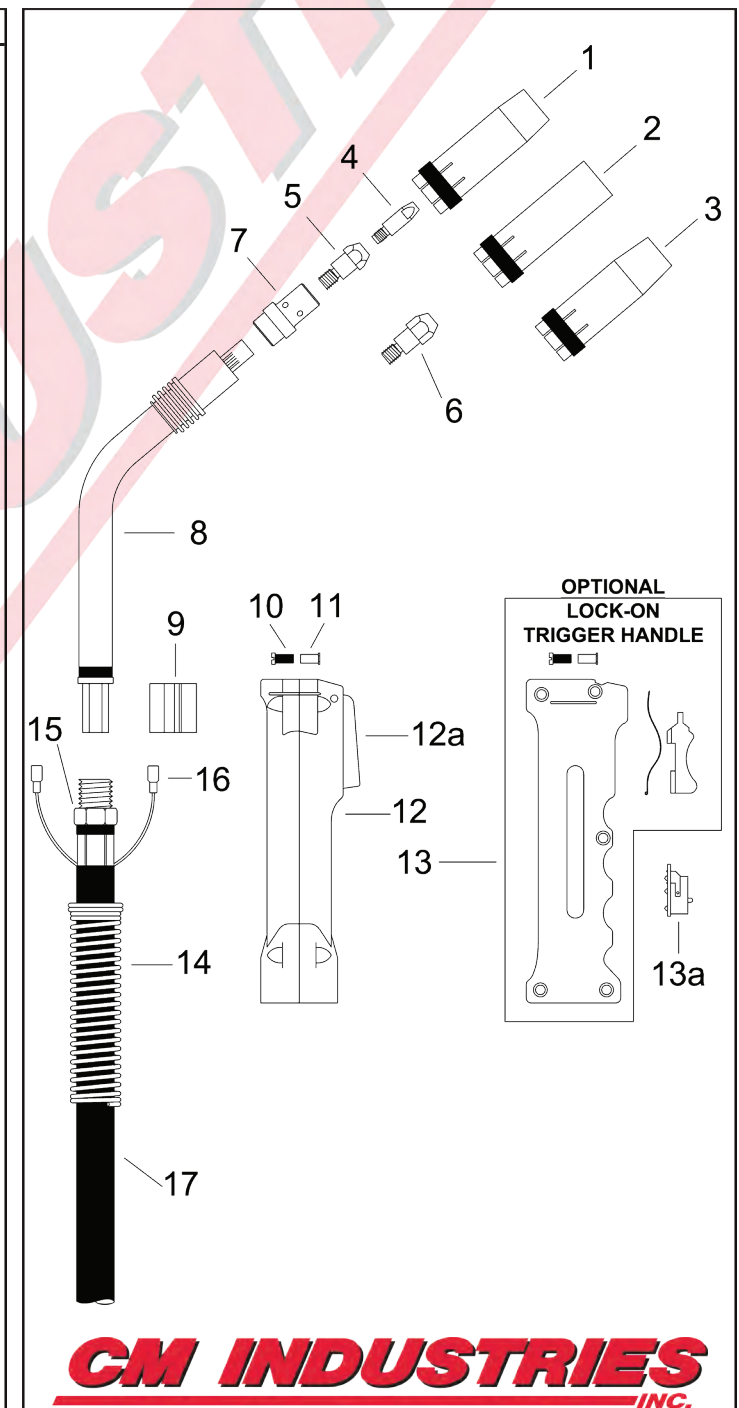
BNZ 36A

AIR-COOLED MIG GUN

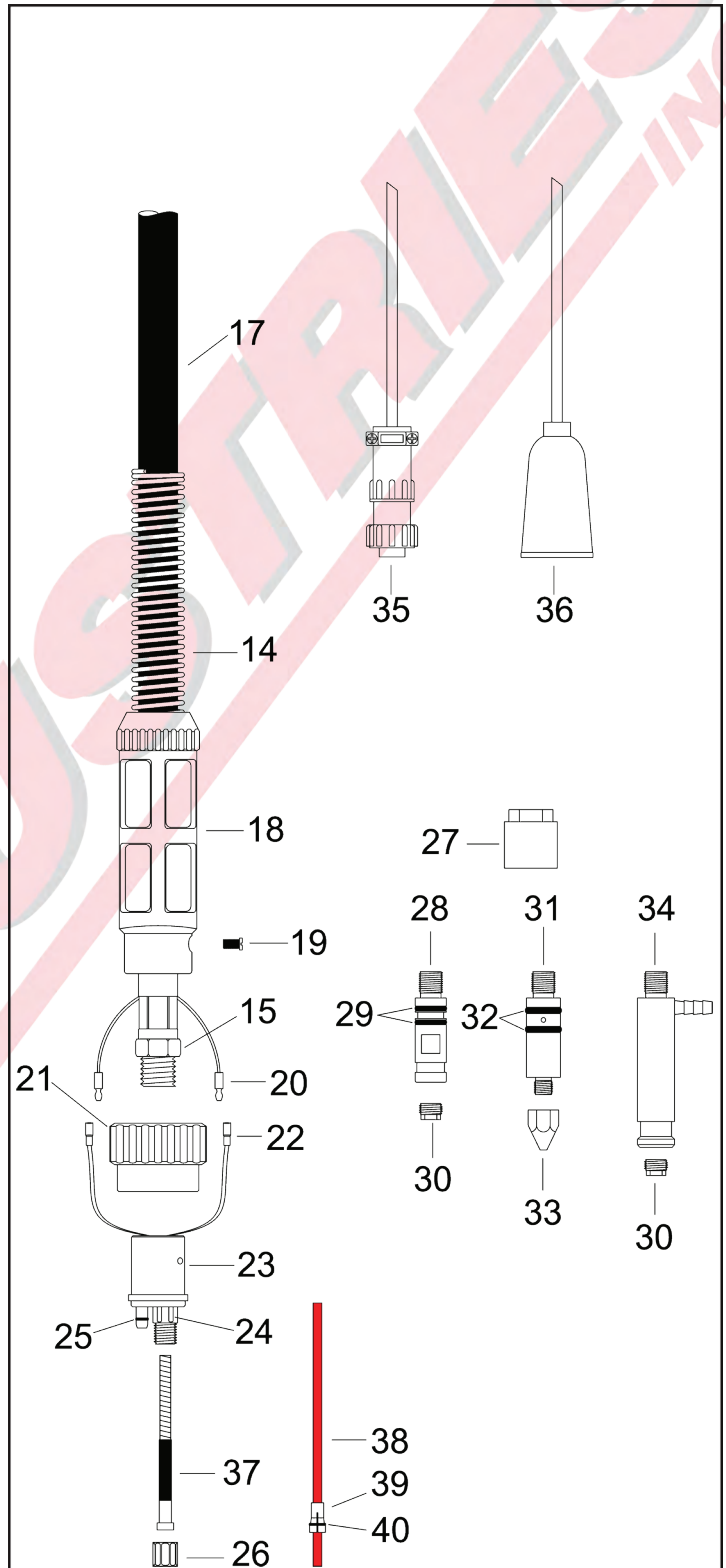
Replacement Suitable for Binzel®

RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
360 Amp CO2 @ 60% Duty Cycle 320 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.030" (0.8mm) - 0.062" (1.6mm)	700-36-0xx	Euro
	700-36-Cxx	Century®
	700-36-Lxx	Lincoln® "LN"
	700-36-Rxx	Lincoln® Power MIG™
	700-36-Mxx	Miller®
	700-36-Txx	Tweco® #4
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	165-36-001	Nozzle, Conical, 5/8" I.D., Std.
2.	165-36-002	Nozzle, Cylindrical, 3/4" I.D.
3.	165-36-011	Nozzle, Conical Small, 9/16" I.D.
4.	150-06-120	Contact Tip, M6, .024" 0.6mm
	150-08-120	Contact Tip, M6, .030" 0.8mm
	150-09-120	Contact Tip, M6, .035" 0.9mm, Std.
	150-10-120	Contact Tip, M6, .040" 1.0mm
	150-12-120	Contact Tip, M6, .045" 1.2mm
	150-14-120	Contact Tip, M6, .052" 1.4mm
	150-16-120	Contact Tip, M6, 1/16" 1.6mm
5.	160-06-036	Contact Tip Holder, M6, Std.
	160-06-136	Contact Tip Holder, Long, M6
6.	160-08-036	Contact Tip Holder, M8, H.D.
	160-08-136	Contact Tip Holder, Long, M8, H.D.
7.	046-36-001	Insulator/Gas Diffuser, White, Std.
	046-36-002	Insulator/Gas Diffuser, Heat Resistant Black
8.	051-36-050	Swan Neck, 50°
9.	047-00-100	Body Insulator
10.	170-66-005	Handle Screw
11.	170-66-009	Handle Post
12.	170-66-002	Handle, Complete w/ Screws & Posts
12a.	170-66-000	Trigger Only
	185-66-003	Replacement Switch Assembly
13.	170-66-102	Handle Assembly w/ Locking Trigger (Optional)
13a.	185-66-023	Micro Switch for Locking Trigger
14.	185-40-001	Cable Support Spring
15.	290-01-010	Hex Nut
16.	300-05-004	Trigger Wire Connector, Large
17.	210-36-010	Power Cable, 10'
	210-36-012	Power Cable, 12'
	210-36-015	Power Cable, 15'
	210-36-020	Power Cable, 20'
	210-36-025	Power Cable, 25'



#	Part Number	Description
18.	260-25-002	Adaptor Support
19.	285-01-001	Adaptor Support Screw
20.	300-05-010	Male Electrical Connector
21.	401-00-001	Adaptor Nut
22.	300-05-009	Female Electrical Connector
23.	401-02-014	Connector Block, Complete
24.	285-03-002	Male Pin w/ Lead
25.	285-00-002	O-Ring, Connector Block
26.	401-01-001	Liner Retaining Nut
27.	401-02-012	Connector Plug Block
28.	401-02-016	Connector Plug, Hobart/Tweco/Lincoln P.M.
29.	C224	O-Ring
30.	401-01-004	Liner Retaining Plug
31.	401-02-017	Connector Plug, Miller
32.	M079-974	O-Ring, Miller
33.	401-01-002	Liner Nut, Miller
34.	401-02-015	Connector Plug, Lincoln
35.	300-05-001	Electrical Plug, Miller
36.	300-05-002	Electrical Plug, Lincoln
37.	241-26-016 241-22-016 241-23-016	Liner #26, 15', .023"-.035" Liner #22, 15', .035"-.045", Std. Liner #23, 15', .052"-1/16"
38.	255-18-010 255-18-012 255-18-015	Teflon Liner #18, 10', .023"-.035" Teflon Liner #18, 12', .023"-.035" Teflon Liner #18, 15', .023"-.035"
	255-10-010 255-10-012 255-10-015	Teflon Liner #10, 10', .035"-.045" Teflon Liner #10, 12', .035"-.045" Teflon Liner #10, 15', .035"-.045"
	255-05-010 255-05-012 255-05-015	Teflon Liner #5, 10', .045"-1/16" Teflon Liner #5, 12', .045"-1/16" Teflon Liner #5, 15', .045"-1/16"
39.	259-10-001	Repl. Collet, Teflon Liner #10 & #18
40.	285-00-003	Repl. O-Ring



CM INDUSTRIES
INC.

BNZ 501W

500 AMP Semi-Automatic, Water-Cooled, MIG Welding Gun



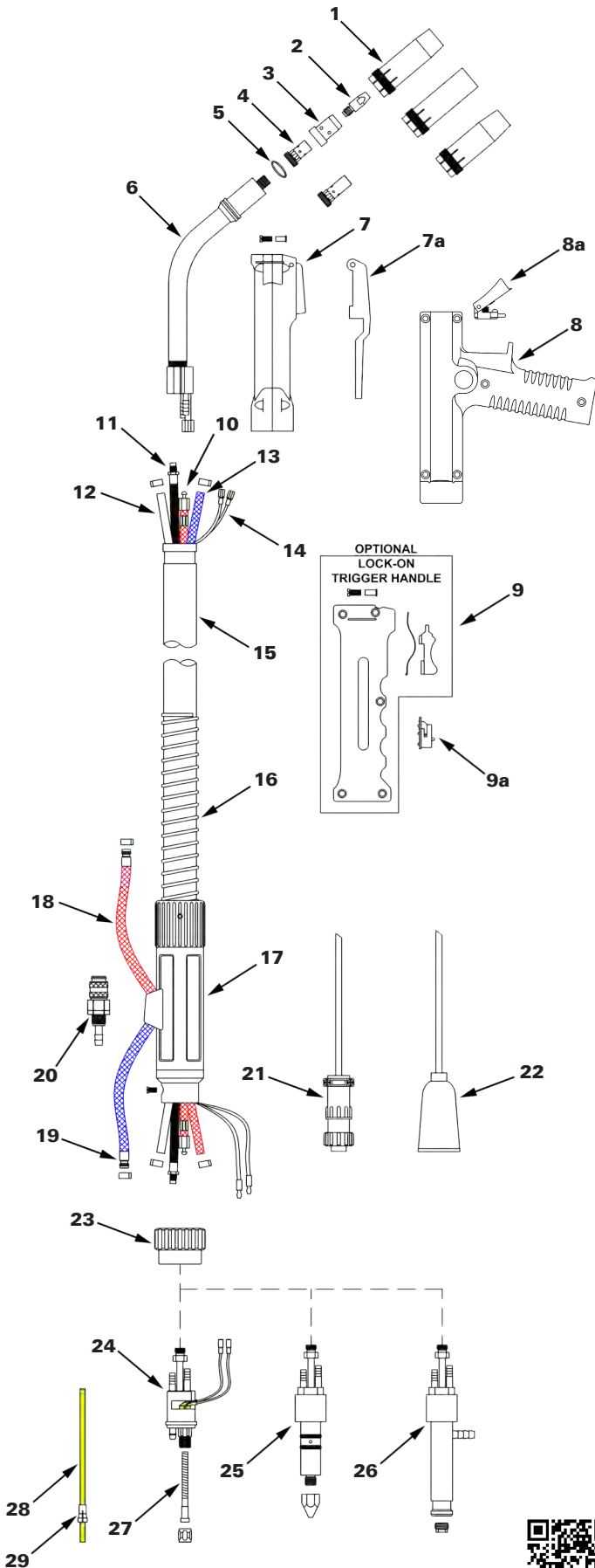
PARTS LIST

MADE IN USA

April 2020 v1

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047
ph: 847-550-0033 fx: 847-550-0444
email: sales@cmindustries.com
www.cmindustries.com

PARTS LIST - Replacement Parts for BNZ 501W - 500 AMP CO2 @ 100%



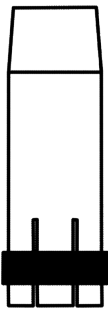
ITEM #	PART #	DESCRIPTION
501W		
1	165-52-001	Nozzle, Conical, 5/8"
	<i>See Nozzle Selection</i>	
2	<i>See Contact Tip Selection</i>	Contact Tip
3	046-52-002	Insulator / Gas Diffuser
	046-52-003	Insulator / Gas Diffuser - High Temp.
4	160-08-402	Contact Tip Holder, M8
	160-06-402	Contact Tip Holder, M6
	160-08-404	Contact Tip Holder, M8 - Flush
	160-06-404	Contact Tip Holder, M6 - Flush
5	064-52-002	Insulating Washer
6	051-52-250	Neck, 50°
	051-52-260	Neck, 60°
	051-53-250	Neck + 2", 50°
	051-53-260	Neck + 2", 60°
7	170-66-002	EZ GRIP Handle - Complete
7a	170-66-032 170-63-006	Handle - Complete w/ Extension Trigger Extension Only
8	170-66-404	Handle - Pistol Grip
8a	170-14-100	Trigger Switch for Pistol Grip
9	170-66-102	Handle w/ Locking Trigger (Optional)
9a	185-66-023	Micro Switch for Locking Trigger
Items 10-15 are available in lengths of 10, 12, 15, 20, and 25 feet		
10	225-52-0xx	Power Cable
11	235-52-0xx	Wire Conduit
12	310-55-0xx	Gas Hose
13	310-52-0xx	Water Hose, IN, Blue
14	300-05-0xx	Trigger Wire
15	216-52-0xx	Outer Cable Cover
	215-52-0xx	Complete Assembly (includes Items 10-15)
16	185-52-001	Cable Support Spring
17	260-52-202	Adaptor Support
18	310-53-002	Water Hose, OUT, Red, 2'
19	350-52-001	Male Water Fitting
20	350-65-002	Female Quick Disconnect
21	300-05-001	Electrical Plug, Miller®
22	300-05-002	Electrical Plug, Lincoln®
23	401-00-001	Adaptor Nut
24	401-02-052	Adaptor Block, Euro
	401-01-001	Liner Retaining Nut
25	401-02-054	Connector Plug, Miller®
	401-01-002	Liner Retaining Nut, Miller®
26	402-02-056	Connector Plug, Lincoln®
	401-01-004	Liner Retaining Nut, Lincoln®
27	<i>See Liner Selection</i>	<i>See Liner Selection</i>
28	<i>See Liner Selection</i>	<i>See Liner Selection</i>
29	259-05-001	Repl. Collet, Teflon Liner #5
	259-10-001	Repl. Collet, Teflon Liner #10
	285-00-003	Repl. O-Ring



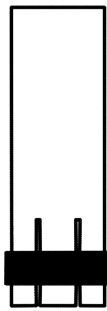
Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

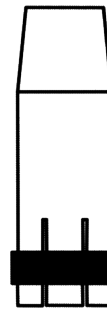
Nozzles (Optional Available)



165-52-305 Conical Heavy Duty 5/8"

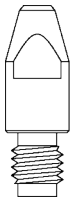


165-52-002 Cylindrical 3/4"



165-52-011 Conical Small 9/16"
165-52-111 Conical Super Small 7/16"

Contact Tips



M8

150-08-130	.030" 0.8mm
150-09-130	.035" 0.9mm
150-10-130	.040" 1.0mm
150-12-130	.045" 1.2mm
150-14-130	.052" 1.4mm
150-16-130	1/16" 1.6mm
150-20-130	5/64" 2.0mm
150-24-130	3/32" 2.4mm



M6

150-08-120	.030" 0.8mm
150-09-120	.035" 0.9mm
150-10-120	.040" 1.0mm
150-12-120	.045" 1.2mm
150-14-120	.052" 1.4mm
150-16-120	1/16" 1.6mm

Liners

15'

241-02-016	#2, .035"-.045"
241-03-016	#3, .052"-1/16"
241-04-016	#4, 5/64"-3/32"

25'

241-02-027	#2, .035"-.045"
241-03-027	#3, .052"-1/16"
241-04-027	#4, 5/64"-3/32"

Teflon for Aluminum

255-10-010	#10, 10' .035"-.045"
255-10-012	#10, 12' .035"-.045"
255-10-015	#10, 15' .035"-.045"

255-05-010 #5, 10' .045"-1/16"

255-05-012 #5, 12' .045"-1/16"

255-05-015 #5, 15' .045"-1/16"

Ordering Information

BZ5 15 - 5 62 - M Z B

Gun Model & Amperage

BZ5 CM Industries 501W
500 Amp Water-Cooled MIG Gun

Length

10	10'
12	12'
15	15'
20	20'
25	25'

Neck

1	180°
5	50°
6	60°

Wire Size

35	.035"
45	.045"
52	.052"
62	.062"

Back End

E	Euro DP
L	Lincoln® "LN" DP
N	Lincoln® "LF" DP
T	Tweco® DP
M	Miller® DP
V	Lincoln® Power MIG DP

Custom Options

2	+2" Longer Neck
3	+3" Longer Neck
4	+4" Longer Neck
S	Short Neck

Options

B	Bottom Trigger
T	Top Trigger

Handle Options

L	Locking Handle
P	Pistol Grip Handle
R	ERGO Handle
T	EZ Grip Handle w/ Trig Ext.
Z	EZ Grip Handle

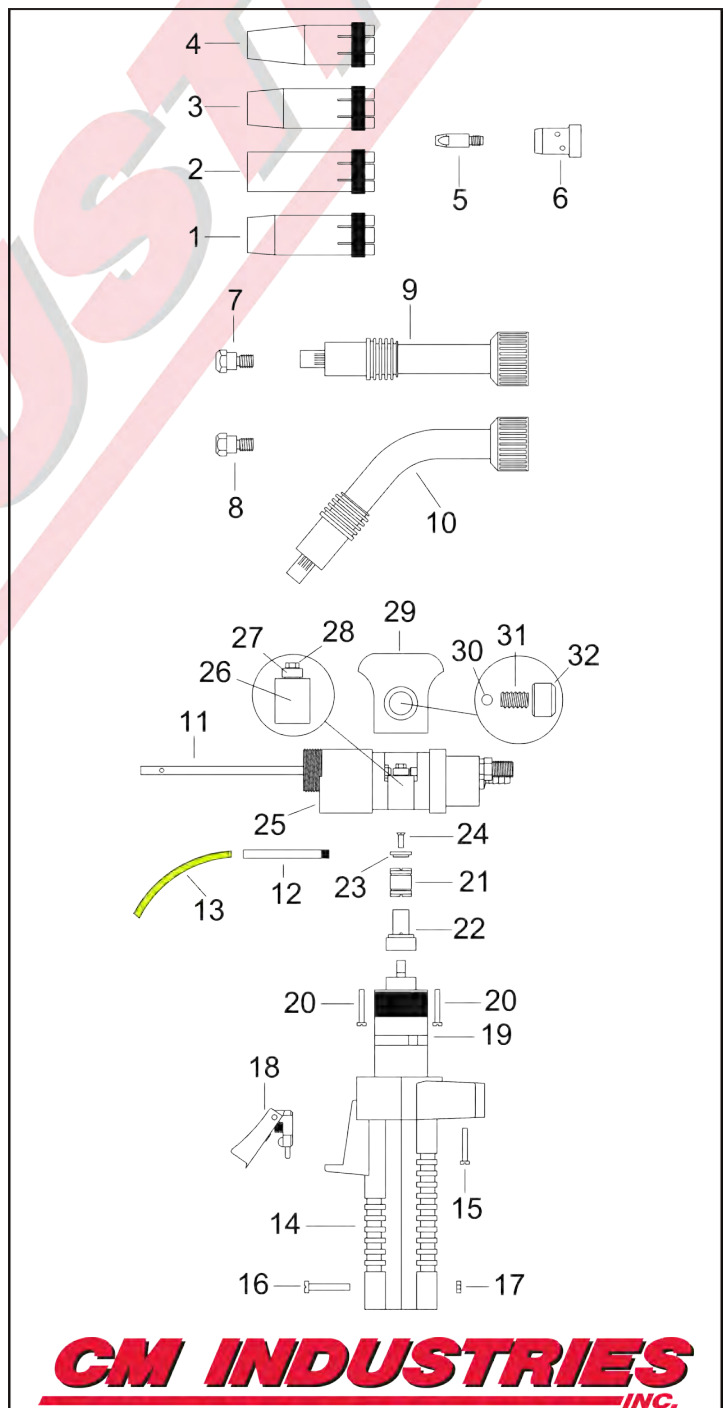
PPA26

PUSH-PULL AIR-COOLED MIG GUN

Replacement Suitable for Binzel®

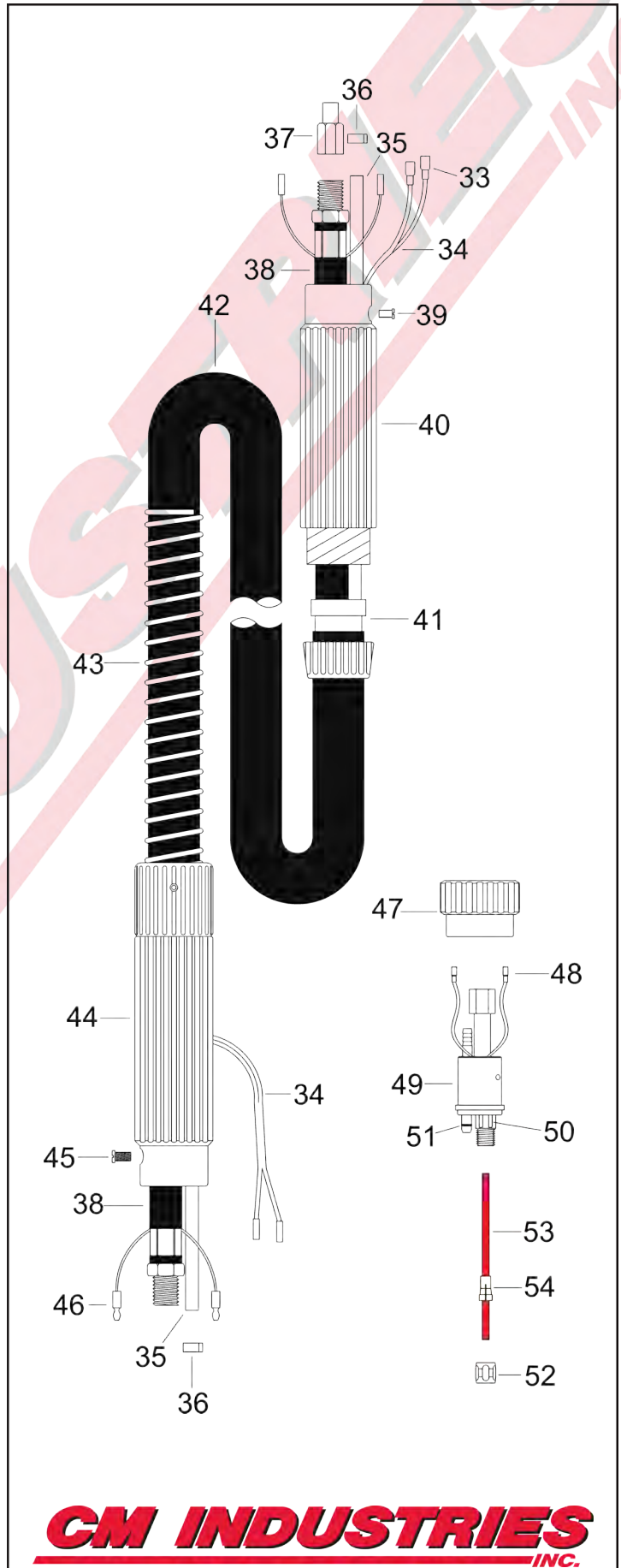
RATING	GUN ORDERING PART NUMBER			POWER PIN Direct Connect
260 Amp CO2 @ 60% Duty Cycle	750-26-010	w/ 180° Neck	10'	Euro
	750-26-015	w/ 180° Neck	15'	Euro
	750-26-025	w/ 180° Neck	25'	Euro
200 Amp Mixed Gas @ 60% Duty Cycle	750-26-110	w/ 45° Neck	10'	Euro
	750-26-115	w/ 45° Neck	15'	Euro
	750-26-125	w/ 45° Neck	25'	Euro
Wire Capacity: 0.023" (0.6mm) - 0.062" (1.6mm)				

#	Part Number	Description
1.	165-52-001	Nozzle, Conical, 5/8" I.D., Std.
2.	165-52-002	Nozzle, Cylindrical, 3/4" I.D.
3.	165-52-011	Nozzle, Conical Small, 9/16" I.D.
4.	165-52-111	Nozzle, Conical Super Small, 7/16" I.D.
5.	150-06-120	Contact Tip, M6, .024" 0.6mm
	150-08-120	Contact Tip, M6, .030" 0.8mm
	150-09-120	Contact Tip, M6, .035" 0.9mm, Std.
	150-10-120	Contact Tip, M6, .040" 1.0mm
	150-12-120	Contact Tip, M6, .045" 1.2mm
	150-14-120	Contact Tip, M6, .052" 1.4mm
	150-16-120	Contact Tip, M6, 1/16" 1.6mm
6.	046-26-001	Insulator/Gas Diffuser, Std.
7.	160-06-026	Contact Tip Holder, M6, Std.
8.	160-06-126	Contact Tip Holder, Long, M6
9.	600-26-180	Swan Neck, 180°
10.	600-26-045	Swan Neck, 45°
11.	600-01-015	Wire Guide, 180° Swan Neck
12.	600-02-019	Wire Guide, 45° Swan Neck
13.	600-02-020	Teflon Liner, 45° Swan Neck
14.	600-60-002	Handle Complete (Includes items 14-17)
15.	600-03-002	Handle Screw, Top
16.	600-04-002	Handle Screw, Bottom
17.	600-04-022	Handle Nut, bottom
18.	170-14-002	Trigger Switch
19.	600-25-100	Gear Motor, 42V DC
20.	600-03-004	Gear Motor Screw
21.	600-08-035	Wire Drive Roll, .030" 0.8mm
	600-09-035	Wire Drive Roll, .035" 0.9mm
	600-10-035	Wire Drive Roll, .040" 1.0mm
	600-12-035	Wire Drive Roll, 3/64" 1.2mm/1.3mm
	600-14-035	Wire Drive Roll, .052" 1.4mm
	600-16-035	Wire Drive Roll, 1/16" 1.6mm
22.	600-20-035	Drive Roll Seat
23.	600-11-023	Washer for Drive Roll
24.	600-03-023	Screw, Drive Roll



CM INDUSTRIES
INC.

#	Part Number	Description
25.	600-26-122	Torch Body
26.	600-03-008	Idler Arm
27.	600-03-010	Idler Roll
28.	600-03-022	Hex Nut, Idler Arm
29.	600-03-009	Drive Roll Cap, w/ Hardware
30.	600-25-022	Ball, Drive Roll Cap
31.	600-25-023	Spring, Drive Roll Cap
32.	600-25-024	Knob, Drive Roll Cap
33.	300-05-009	Female Electrical Connector
34.	300-05-0__	Trigger Wire, 10', 15', 25'
35.	310-55-0__	Gas Hose, 10', 15', 25'
36.	350-60-095	Hose Clamp, 9.5mm
37.	600-20-009	Hex Adaptor
38.	600-30-0__	Power Cable, 10', 15', 25'
39.	600-20-005	Cable Support Screw
40.	600-20-006	Cable Support, Push-Pull
41.	260-52-001	Cable Support
42.	216-52-0__	Outer Cable Cover, 10', 15', 25'
43.	185-52-001	Cable Support Spring
44.	260-52-202	Adaptor Support
45.	285-01-001	Adaptor Support Screw
46.	300-05-010	Male Electrical Connector
47.	401-00-001	Adaptor Nut
48.	300-05-009	Female Electrical Connector
49.	401-02-114	Adaptor Block, PPA26
50.	285-03-002	Male Pin w/ Lead
51.	285-00-002	O-ring, Adaptor Block
52.	401-01-001	Liner Retaining Nut
53.	255-18-010	Teflon Liner #18, 10' .023"-.035"
	255-18-015	Teflon Liner #18, 15' .023"-.035"
	255-18-025	Teflon Liner #18, 25' .023"-.035"
	255-10-010	Teflon Liner #10, 10' .035"-.045"
	255-10-015	Teflon Liner #10, 15' .035"-.045"
	255-10-025	Teflon Liner #10, 25' .035"-.045"
	255-05-010	Teflon Liner #5, 10' .045"-1/16"
	255-05-015	Teflon Liner #5, 15' .045"-1/16"
	255-05-025	Teflon Liner #5, 25' .045"-1/16"
54.	259-10-001	Repl. Collet, Teflon Liner #10 & #18
	259-05-001	Repl. Collet, Teflon Liner #5



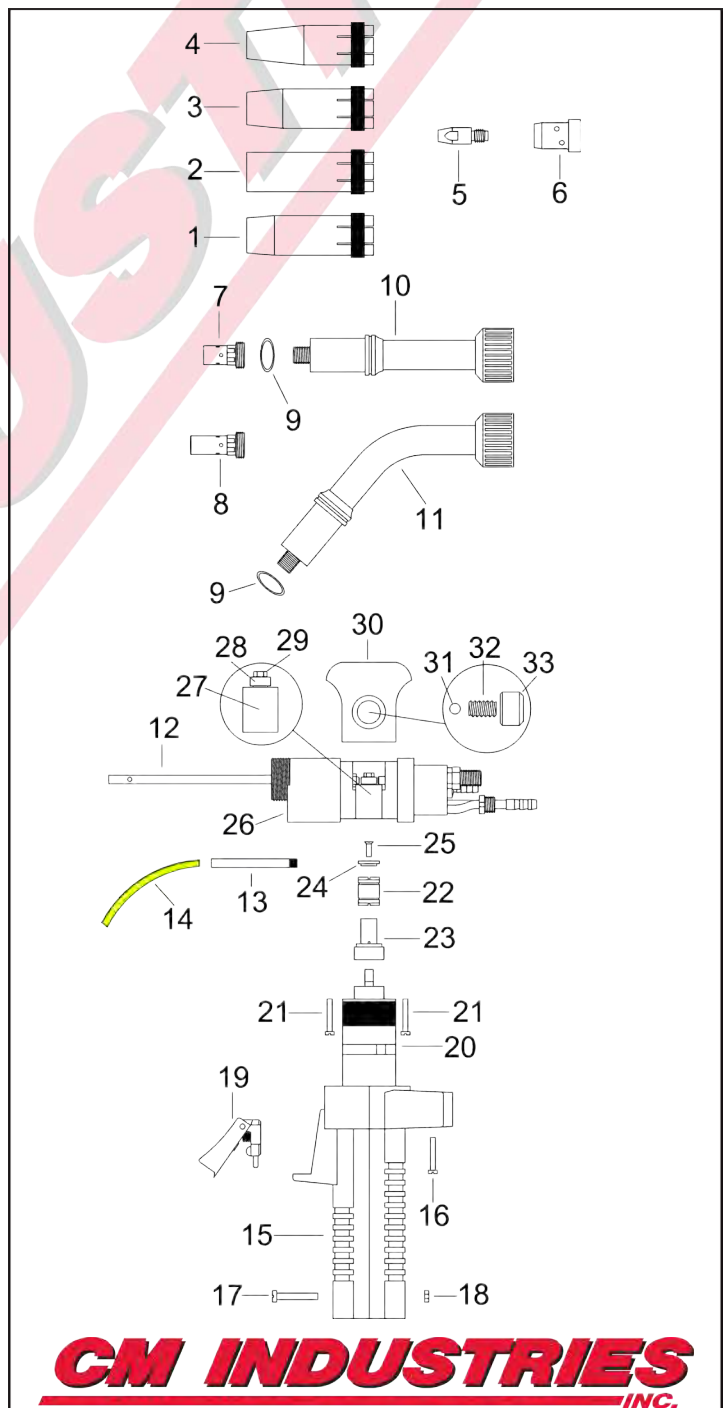
PPW401

PUSH-PULL WATER-COOLED MIG GUN

Replacement Suitable for Binzel®

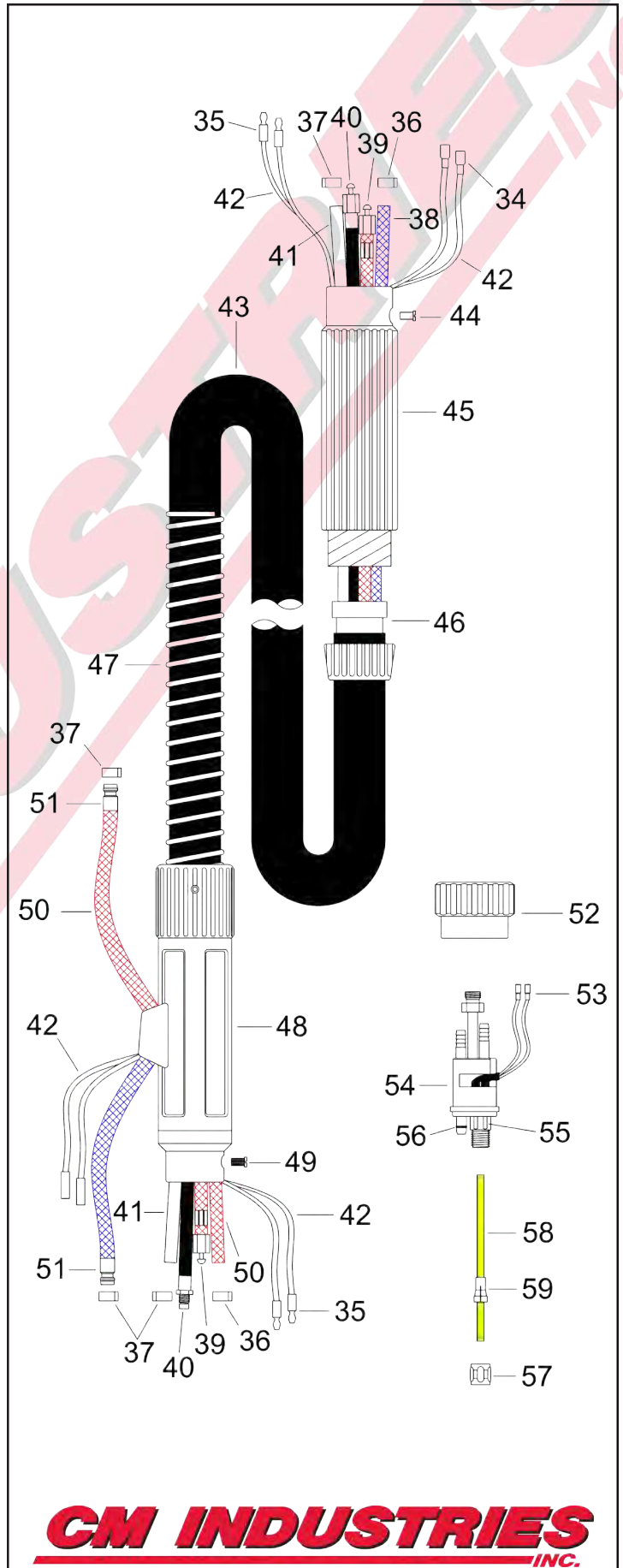
RATING	GUN ORDERING PART NUMBER			POWER PIN Direct Connect
360 Amp CO2 @ 60% Duty Cycle	750-42-010	w/ 180° Neck	10'	Euro
	750-42-015	w/ 180° Neck	15'	Euro
300 Amp Mixed Gas @ 60% Duty Cycle	750-42-025	w/ 180° Neck	25'	Euro
	750-42-110	w/ 45° Neck	10'	Euro
Wire Capacity: 0.023" (0.6mm) - 0.062" (1.6mm)	750-42-115	w/ 45° Neck	15'	Euro
	750-42-125	w/ 45° Neck	25'	Euro

#	Part Number	Description
1.	165-52-001	Nozzle, Conical, 5/8" I.D., Std.
2.	165-52-002	Nozzle, Cylindrical, 3/4" I.D.
3.	165-52-011	Nozzle, Conical Small, 9/16" I.D.
4.	165-52-111	Nozzle, Conical Super Small, 7/16" I.D.
5.	150-06-130	Contact Tip, M8, .024" 0.6mm
	150-08-130	Contact Tip, M8, .030" 0.8mm
	150-09-130	Contact Tip, M8, .035" 0.9mm
	150-10-130	Contact Tip, M8, .040" 1.0mm
	150-12-130	Contact Tip, M8, .045" 1.2mm, Std.
	150-14-130	Contact Tip, M8, .052" 1.4mm
	150-16-130	Contact Tip, M8, 1/16" 1.6mm
6.	046-52-002	Insulator/Gas Diffuser, Std.
	046-52-003	Insulator/Gas Diffuser, High Temp.
7.	160-08-402	Contact Tip Holder, M8, Std.
	160-06-402	Contact Tip Holder, M6
8.	160-08-404	Contact Tip Holder, Long, M8, Flush
	160-06-404	Contact Tip Holder, Long, M6, Flush
9.	064-52-002	Insulating Washer
10.	600-42-180	Swan Neck, 180°
11.	600-42-045	Swan Neck, 45°
12.	600-01-015	Wire Guide, 180° Swan Neck
13.	600-02-019	Wire Guide, 45° Swan Neck
14.	600-02-020	Teflon Liner, 45° Swan Neck
15.	600-60-002	Handle Complete (Includes items 16-18)
16.	600-03-002	Handle Screw, Top
17.	600-04-002	Handle Screw, Bottom
18.	600-04-022	Handle Nut, Bottom
19.	170-14-002	Trigger Switch
20.	600-25-100	Gear Motor, 42V DC
21.	600-03-004	Gear Motor Screw
22.	600-08-035	Wire Drive Roll, .030" 0.8mm
	600-09-035	Wire Drive Roll, .035" 0.9mm
	600-10-035	Wire Drive Roll, .040" 1.0mm
	600-12-035	Wire Drive Roll, 3/64" 1.2mm/1.3mm
	600-14-035	Wire Drive Roll, .052" 1.4mm
	600-16-035	Wire Drive Roll, 1/16" 1.6mm



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#	Part Number	Description
23.	600-20-035	Drive Roll Seat
24.	600-11-023	Washer for Drive Roll
25.	600-03-023	Screw, Drive Roll
26.	600-42-122	Torch Body
27.	600-03-008	Idler Arm
28.	600-03-010	Idler Roll
29.	600-03-022	Hex Nut, Idler Arm
30.	600-03-009	Drive Roll Cap, w/ Hardware
31.	600-25-022	Ball, Drive Roll Cap
32.	600-25-023	Spring, Drive Roll Cap
33.	600-25-024	Knob, Drive Roll Cap
34.	300-05-009	Female Electrical Connector
35.	300-05-010	Male Electrical Connector
36.	350-61-095	Hose Clamp w/ Bridge, 9.5mm
37.	350-60-095	Hose Clamp, 9.5mm
Items 38-43 are available in lengths 10, 15, and 25 feet		
38.	310-52-0__	Water Hose, IN, Blue
39.	600-36-0__	Power Cable
40.	600-35-0__	Wire Conduit
41.	310-55-0__	Gas Hose
42.	300-05-0__	Trigger Wire
43.	216-52-0__	Outer Cable Cover
44.	600-20-005	Cable Support Screw
45.	600-20-006	Cable Support, Push-Pull
46.	260-52-001	Cable Support
47.	185-52-001	Cable Support Spring
48.	260-52-202	Adaptor Support
49.	285-01-001	Adaptor Support Screw
50.	310-53-002	Water Hose, OUT, Red, 2"8"
51.	350-52-001	Male Water Fitting
52.	401-00-001	Adaptor Nut
53.	300-05-010	Female Electrical Connector
54.	401-02-052	Adaptor Block
55.	285-03-002	Male Pin w/ Lead
56.	285-00-002	O-ring, Adaptor Block
57.	401-01-001	Liner Retaining Nut
58.	255-18-010	Teflon Liner #18, 10', .023"- .035"
	255-18-015	Teflon Liner #18, 15', .023"- .035"
	255-18-025	Teflon Liner #18, 25', .023"- .035"
	255-10-010	Teflon Liner #10, 10', .035"- .045"
	255-10-015	Teflon Liner #10, 15', .035"- .045"
	255-10-025	Teflon Liner #10, 25', .035"- .045"
	255-05-010	Teflon Liner #5, 10', .045"- 1/16"
	255-05-015	Teflon Liner #5, 15', .045"- 1/16"
	255-05-025	Teflon Liner #5, 25', .045"- 1/16"
59.	259-10-001	Repl. Collet, Teflon Liner #10 & #18
	259-05-001	Repl. Collet, Teflon Liner #5



CM INDUSTRIES
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BNZ 501AUTO

Automatic, Water-Cooled, MIG Welding Gun



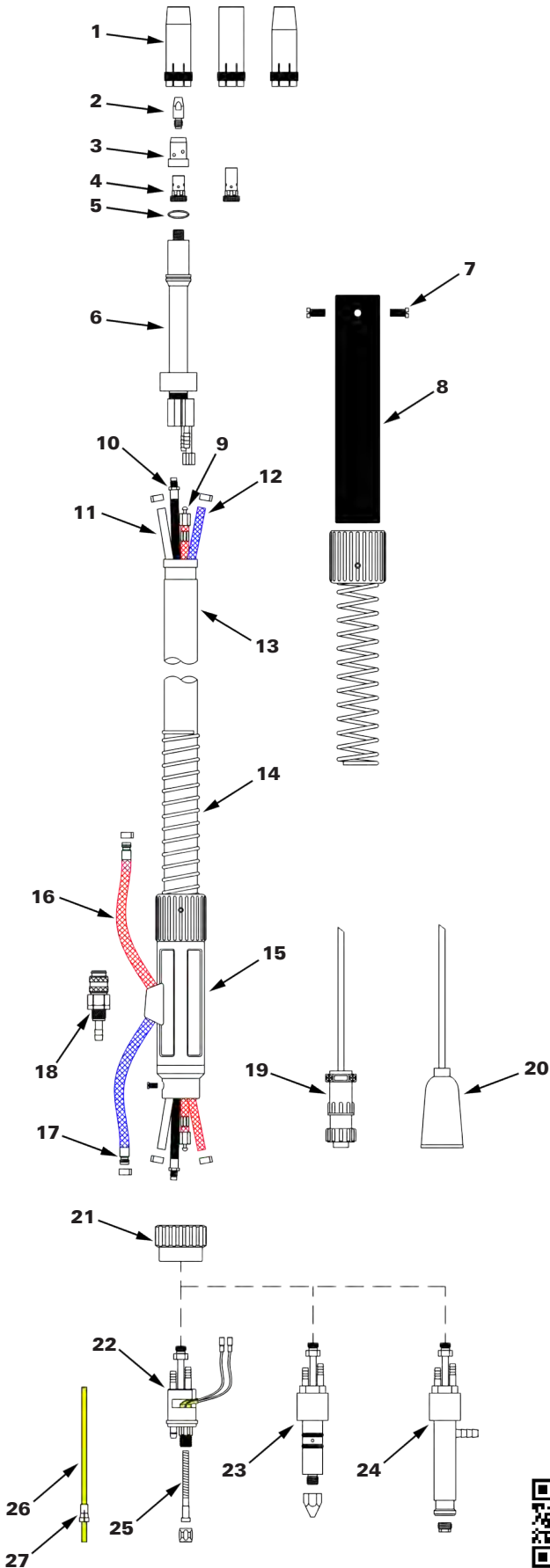
PARTS LIST

MADE IN USA

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047
ph: 847-550-0033 fx: 847-550-0444
email: sales@cmindustries.com
www.cmindustries.com

April 2020 v1

PARTS LIST - Replacement Parts for BNZ 501AUTO



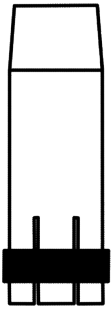
ITEM #	PART #	DESCRIPTION
	501AUTO	
1	165-52-001	Nozzle, Conical, 5/8"
	See <i>Nozzle Selection</i>	Nozzles, Optional Available
2	See <i>Contact Tip Selection</i>	Contact Tip
3	046-52-002	Insulator / Gas Diffuser
	046-52-003	Insulator / Gas Diffuser - High Temp.
4	160-08-402	Contact Tip Holder, M8
	160-06-402	Contact Tip Holder, M6
4	160-08-404	Contact Tip Holder, M8 - Flush
	160-06-404	Contact Tip Holder, M6 - Flush
5	064-52-002	Insulating Washer
6	060-52-180	Neck, 180°
	060-52-022	Neck, 22°
	060-52-045	Neck, 45°
	060-52-xxx	Neck, Custom
7	285-01-001	Handle Screw
8	170-52-016	Barrel Handle w/ Spring
Items 9-13 are available in lengths of 4, 6, 8, and 10 feet		
9	225-52-0xx	Power Cable
10	235-52-0xx	Wire Conduit
11	310-55-0xx	Gas Hose
12	310-52-0xx	Water Hose, IN, Blue
13	216-52-0xx	Outer Cable Cover
	215-52-0xx	Complete Assembly (includes Items 9-13)
14	185-52-001	Cable Support Spring
15	260-52-202	Adaptor Support
16	310-53-002	Water Hose, OUT, Red, 2'
17	350-52-001	Male Water Fitting
18	350-65-002	Female Quick Disconnect
19	300-05-001	Electrical Plug, Miller®
20	300-05-002	Electrical Plug, Lincoln®
21	401-00-001	Adaptor Nut
22	401-02-052 401-01-001	Adaptor Block, Euro Liner Retaining Nut
23	401-02-054 401-01-002	Connector Plug, Miller® Liner Retaining Nut, Miller®
24	402-02-056 401-01-004	Connector Plug, Lincoln® Liner Retaining Nut, Lincoln®
25	See <i>Liner Selection</i>	See <i>Liner Selection</i>
26	See <i>Liner Selection</i>	See <i>Liner Selection</i>
27	259-05-001	Repl. Collet, Teflon Liner #5
	259-10-001	Repl. Collet, Teflon Liner #10
	285-00-003	Repl. O-Ring



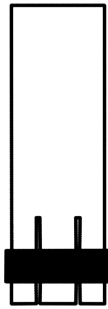
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Consumable Selection

Nozzles (Optional Available)



165-52-305 Conical Heavy Duty 5/8"

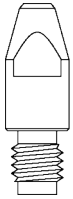


165-52-002 Cylindrical 3/4"



165-52-011 Conical Small 9/16"
165-52-111 Conical Super Small 9/16"

Contact Tips



M8

150-08-130	.030" 0.8mm
150-09-130	.035" 0.9mm
150-10-130	.040" 1.0mm
150-12-130	.045" 1.2mm
150-14-130	.052" 1.4mm
150-16-130	1/16" 1.6mm
150-20-130	5/64" 2.0mm
150-24-130	3/32" 2.4mm



M6

150-08-120	.030" 0.8mm
150-09-120	.035" 0.9mm
150-10-120	.040" 1.0mm
150-12-120	.045" 1.2mm
150-14-120	.052" 1.4mm
150-16-120	1/16" 1.6mm

Liners

15'

241-02-016	#2, .035"-.045"
241-03-016	#3, .052"-1/16"
241-04-016	#4, 5/64"-3/32"

25'

241-02-027	#2, .035"-.045"
241-03-027	#3, .052"-1/16"
241-04-027	#4, 5/64"-3/32"

Teflon for Aluminum

255-10-010	#10, 10' .035"-.045"
255-10-012	#10, 12' .035"-.045"
255-10-015	#10, 15' .035"-.045"

255-05-010 #5, 10' .045"-1/16"

255-05-012 #5, 12' .045"-1/16"

255-05-015 #5, 15' .045"-1/16"

Ordering Information

BZA5 60 - 18 - 52 E

Gun Model
BZA5 CM Industries 501AUTO
Water-Cooled MIG Gun

Length
04 4'
06 6'
08 8'
10 10'
12 12'
15 15'

Neck
18 180°
22 22°
50 50°

Back End
E Euro DP
L Lincoln® "LN" DP
N Lincoln® "LF" DP
T Tweco® DP
M Miller® DP
V Lincoln® Power MIG DP

Wire Size
35 .035"
45 .045"
52 .052"
62 .062"

CM INDUSTRIES
INC.

KOOL RUN[®] M25

Semi-Automatic, Air-Cooled, MIG Welding Gun



**KOOL
RUN[®]**

Driven by Performance

PARTS LIST

MADE IN USA

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047

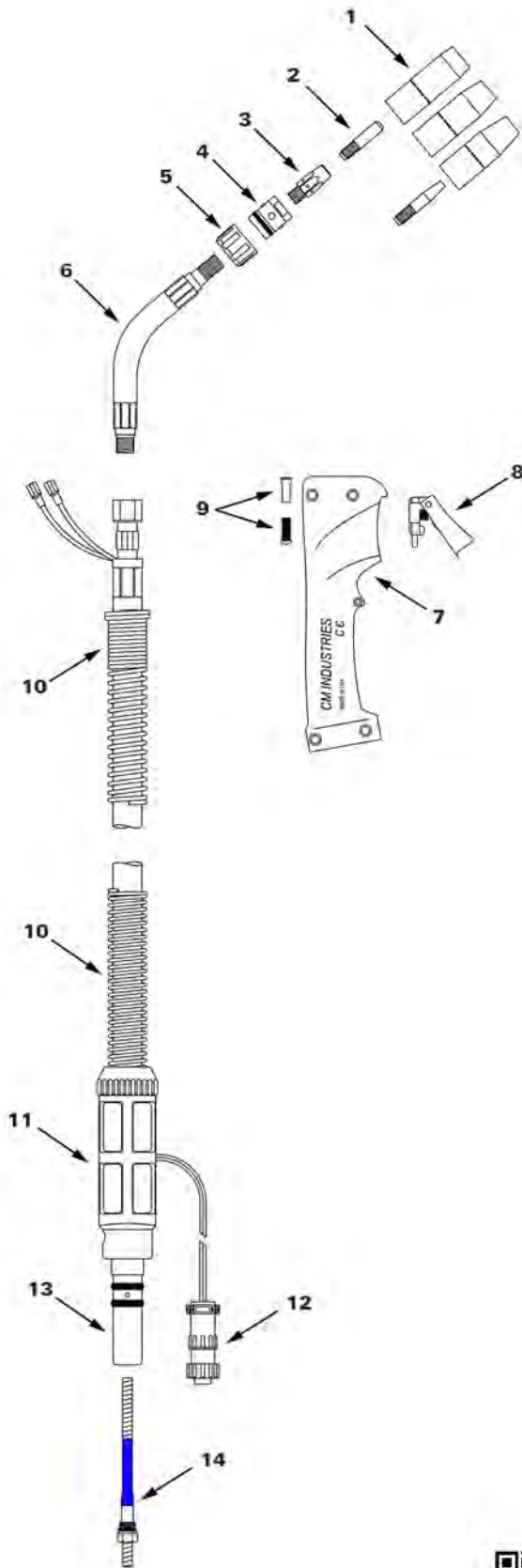
ph: 847-550-0033 fx: 847-550-0444

email: sales@cmindustries.com

www.cmindustries.com

January 2021 v1

PARTS LIST - Replacement Parts for MIL M25



ITEM #	PART #	DESCRIPTION
	M25	
1	169-725	Nozzle
	<i>See Nozzle Selection</i>	Nozzles, Optional Available
2	<i>See Contact Tip Selection</i>	Contact Tip
3	169-728	Tip Adaptor
4	169-729	Nozzle Retainer
5	169-730	Insulator
6	169-731	Neck
7	R210-100	Handle
8	246-376	Trigger
9	R210-102	Handle Post and Screws
10	185-26-001	Spring
11	260-25-002	Adaptor Support
12	300-05-001	Electrical Plug
13	209-486	Miller Power Pin
14	<i>See Liner Selection</i>	Liner



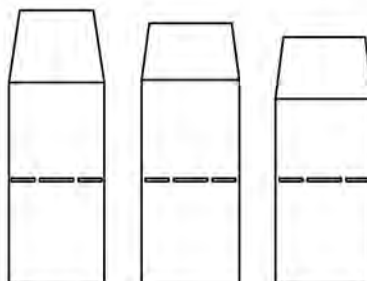
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Consumable Selection

Nozzles (Optional Available)



200-258 1/2", Flush Tip
169-724 1/2", Recess 1/8"



169-725 5/8", Recess 1/8"
169-726 5/8", Flush Tip
169-727 5/8", Stickout 1/8"

Contact Tips



Standard
087-299 .023" 0.6mm
000-067 .030" 0.8mm
000-068 .035" 0.9mm
000-069 .045" 1.2mm
000-070 .052" 1.4mm



Tapered
176-797 .030" 0.8mm
176-793 .035" 0.9mm
176-794 .045" 1.2mm

Liners

15'		25'		for Aluminum	
194-010	15', .023"-.025"	194-011-25	25', .030"-.035"	194-014	15', .035"-3/64"
194-011	15', .030"-.035"	194-012-25	25', .035"-.045"		
194-012	15', .035"-.045"				

Ordering Information

M169 - 598

Gun Model

M169 CM Industries
 Miller® M25 Compatible

Wire Size & Length

594	0.035" (0.9mm), 10'
595	0.045" (1.2mm), 10'
596	0.035" (0.9mm), 12'
597	0.045" (1.2mm), 12'
598	0.035" (0.9mm), 15'
599	0.045" (1.2mm), 15'
598-20	0.035" (0.9mm), 20'
599-20	0.045" (1.2mm), 20'
598-25	0.035" (0.9mm), 25'
599-25	0.045" (1.2mm), 25'

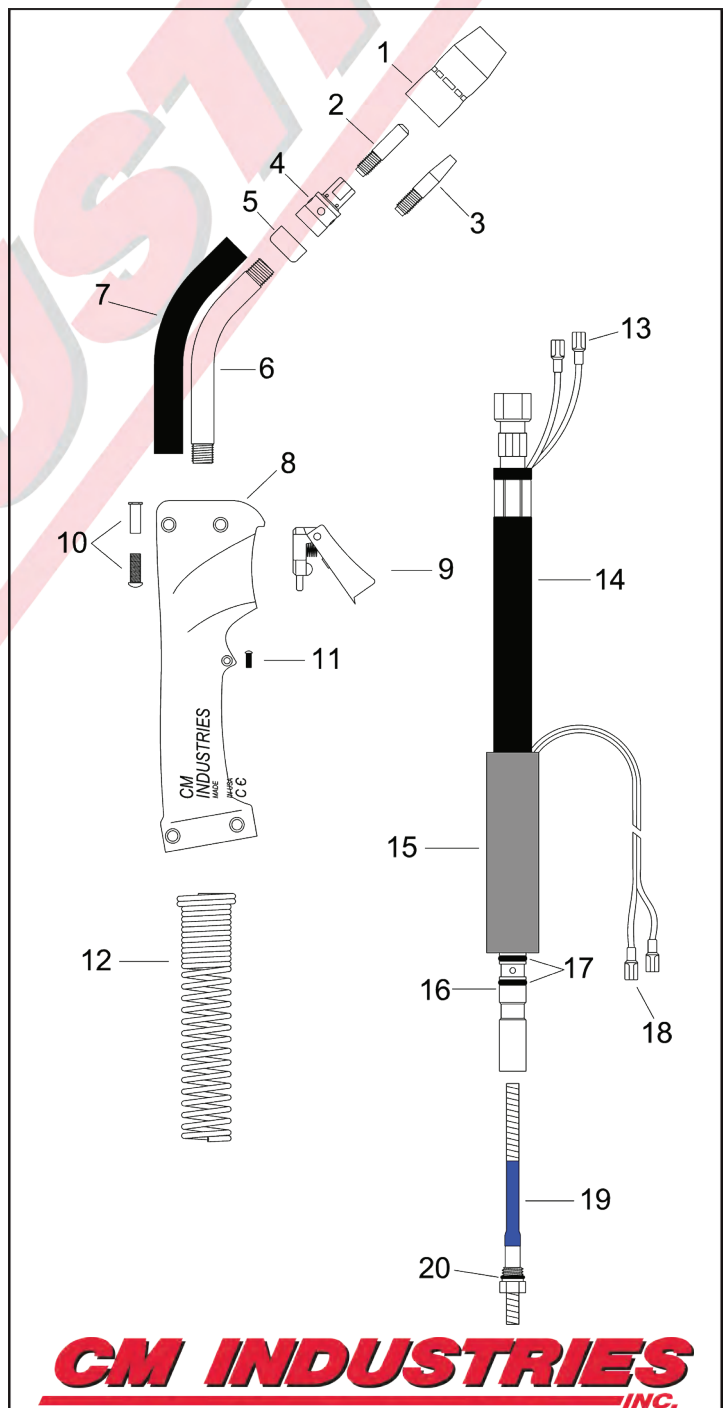
MIL H10

AIR-COOLED MIG GUN

Replacement Suitable for Miller®

RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
100 Amp CO2 @ 100% Duty Cycle	195-957 10'	Handler® 135, 140, 175, 180
100 Amp Mixed Gas @ 60% Duty Cycle	195-958 12'	
Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	195-959 15'	

#	Part Number	Description
1.	169-715	Nozzle 1/2", Flush Tip
2.	087-299 000-067 000-068 000-069	Contact Tip, .023" 0.6mm Contact Tip, .030" 0.8mm Contact Tip, .035" 0.9mm Contact Tip, .045" 1.2mm
3.	176-797 176-793 176-794	Contact Tip, Tapered, .030" 0.8mm Contact Tip, Tapered, .035" 0.9mm Contact Tip, Tapered, .045" 1.2mm
4.	169-716 170-470	Tip Adapter Repl. Retaining Ring
5.	169-717	Shock Washer
6.	169-718	Conductor Tube Assembly, 45°
7.	169-718N	Replacement Neoprene
8.	R210-100	Handle
9.	246-376	Trigger
10.	R210-102	Handle Post & Screw
11.	R210-103	Screw
12.	185-26-001	Spring
13.	300-05-003	Wire Terminal
14.	150-010 150-012 150-015	Power Cable, 10' Power Cable, 12' Power Cable, 15'
15.	195-494R	Rubber Support
16.	209-494	H10 Power Pin
17.	197-123	O-Ring
18.	604-464	Spade Terminal
19.	194-010 194-011	Liner Assembly, 15', .023"-.025" Liner Assembly, 15', .030"-.035"
	194-012	Liner Assembly, 15', .035"-.045"
	194-014	Liner Assembly, 15', .035"-3/64", Aluminum
20.	079-975	Liner O-Ring



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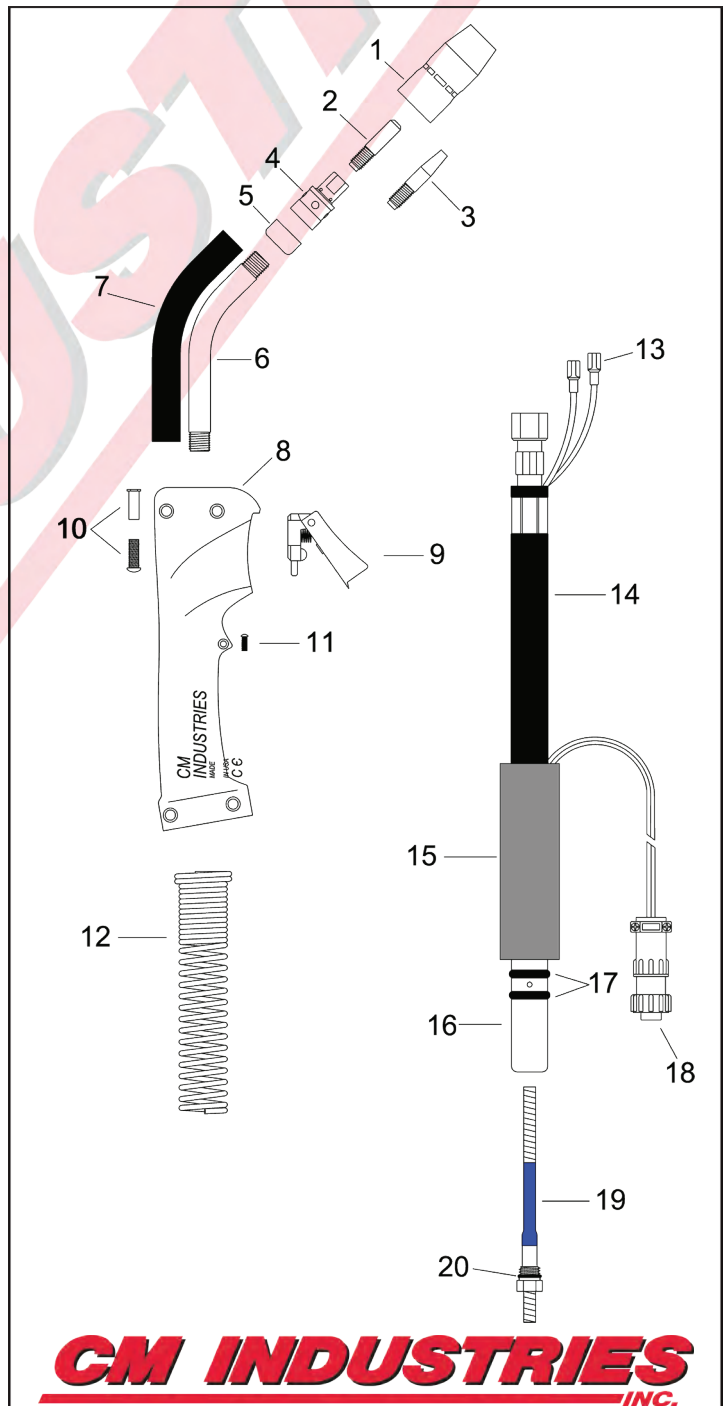
MIL M10

AIR-COOLED MIG GUN

Replacement Suitable for Miller®

RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
100 Amp CO2 @ 100% Duty Cycle	195-605 10'	Miller®
100 Amp Mixed Gas @ 60% Duty Cycle	195-606 12'	Miller®
Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	195-607 15'	Miller®

#	Part Number	Description
1.	169-715	Nozzle 1/2", Flush Tip
2.	087-299 000-067 000-068 000-069	Contact Tip, .023" 0.6mm Contact Tip, .030" 0.8mm Contact Tip, .035" 0.9mm Contact Tip, .045" 1.2mm
3.	176-797 176-793 176-794	Contact Tip, Tapered, .030" 0.8mm Contact Tip, Tapered, .035" 0.9mm Contact Tip, Tapered, .045" 1.2mm
4.	169-716 170-470	Tip Adapter Repl. Retaining Ring
5.	169-717	Shock Washer
6.	169-718	Conductor Tube Assembly, 45°
7.	169-718N	Replacement Neoprene
8.	R210-100	Handle
9.	246-376	Trigger
10.	R210-102	Handle Post & Screw
11.	R210-103	Screw
12.	185-26-001	Spring
13.	300-05-003	Wire Terminal
14.	150-010 150-012 150-015	Power Cable, 10' Power Cable, 12' Power Cable, 15'
15.	209-496	Rubber Support
16.	209-495	Miller Power Pin (M10 only)
17.	079-974	O-Ring
18.	300-05-001	Electrical Plug
19.	194-010 194-011	Liner Assembly, 15', .023"-.025" Liner Assembly, 15', .030"-.035"
	194-012	Liner Assembly, 15', .035"-.045"
	194-014	Liner Assembly, 15', .035"-3/64", Aluminum
20.	079-975	Liner O-Ring



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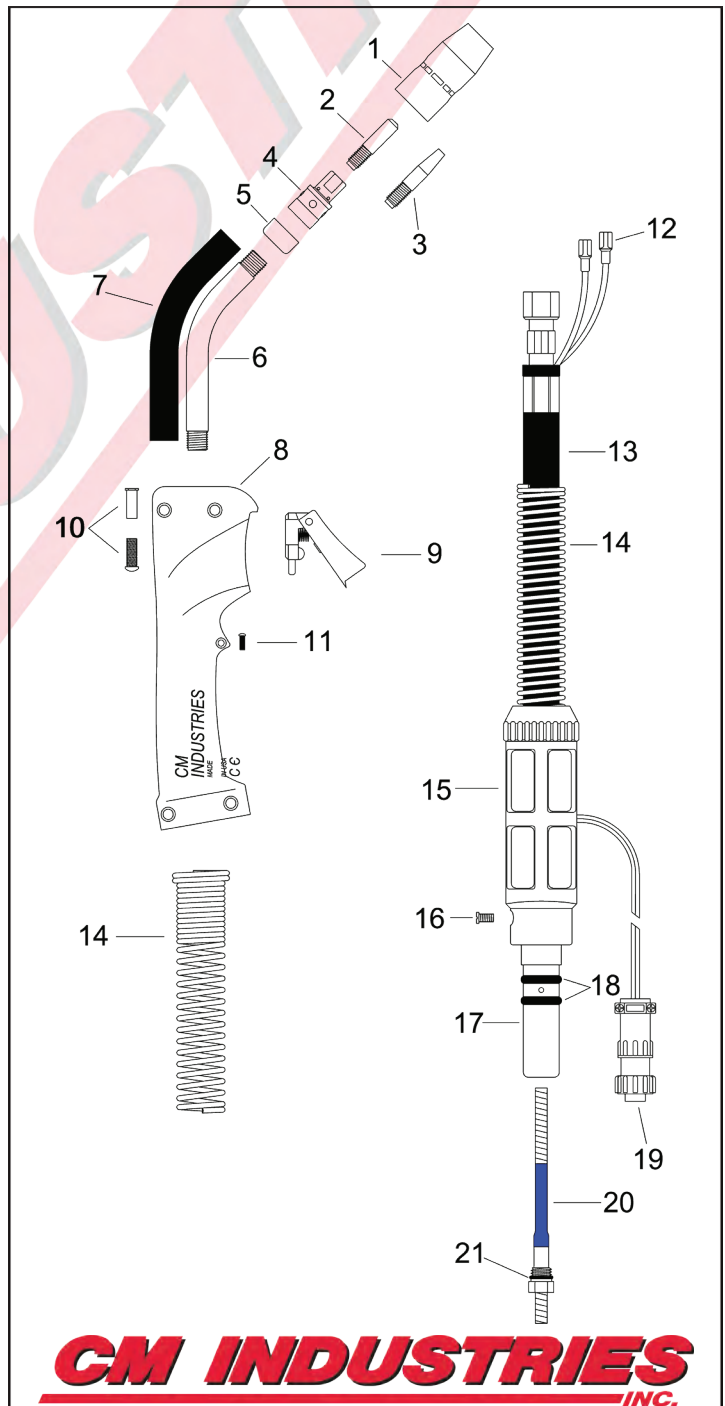
MIL M15

AIR-COOLED MIG GUN

Replacement Suitable for Miller®

RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
150 Amp CO2 @ 100% Duty Cycle	169-589 10'	Miller®
150 Amp Mixed Gas @ 60% Duty Cycle	169-589AL 10' Aluminum	Miller®
	169-591 12'	Miller®
Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	169-593 15'	Miller®

#	Part Number	Description
1.	169-715	Nozzle 1/2", Flush Tip
2.	087-299 000-067 000-068 000-069	Contact Tip, .023" 0.6mm Contact Tip, .030" 0.8mm Contact Tip, .035" 0.9mm Contact Tip, .045" 1.2mm
3.	176-797 176-793 176-794	Contact Tip, Tapered, .030" 0.8mm Contact Tip, Tapered, .035" 0.9mm Contact Tip, Tapered, .045" 1.2mm
4.	169-716 170-470	Tip Adapter Repl. Retaining Ring
5.	169-717	Shock Washer
6.	169-718	Conductor Tube Assembly
7.	169-718N	Replacement Neoprene
8.	R210-100	Handle
9.	246-376	Trigger
10.	R210-102	Handle Post & Screw
11.	R210-103	Screw
12.	300-05-003	Wire Terminal
13.	150-010 150-012 150-015	Power Cable, 10' Power Cable, 12' Power Cable, 15'
14.	185-26-001	Spring
15.	260-25-002	Adaptor Support
16.	285-01-001	Screw
17.	209-486	Miller Power Pin (M15 & M25)
18.	079-974	O-Ring
19.	300-05-001	Electrical Plug
20.	194-010 194-011	Liner Assembly, 15', .023"-.025" Liner Assembly, 15', .030"-.035"
	194-012	Liner Assembly, 15', .035"-.045"
	194-014	Liner Assembly, 15', .035"-3/64", Aluminum
21.	079-975	Liner O-Ring



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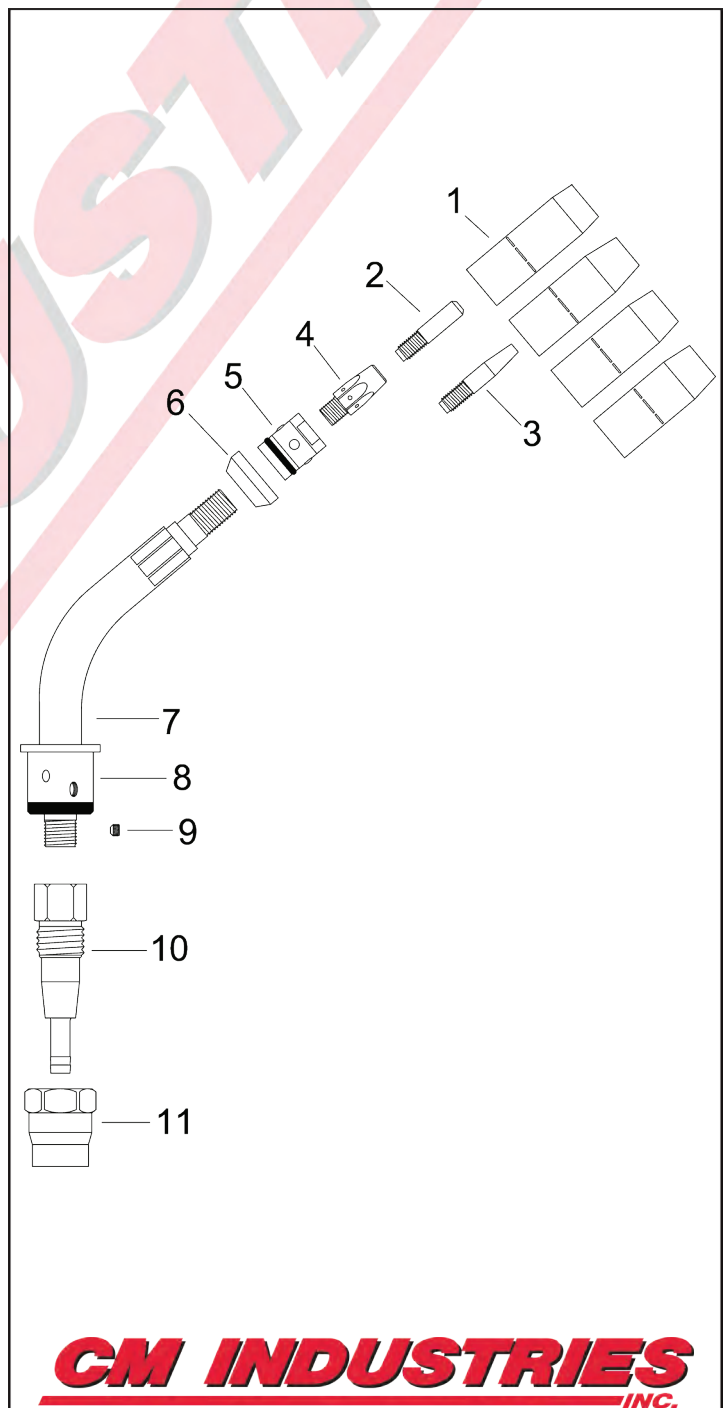
MIL M40

AIR-COOLED MIG GUN

Replacement Suitable for Miller®

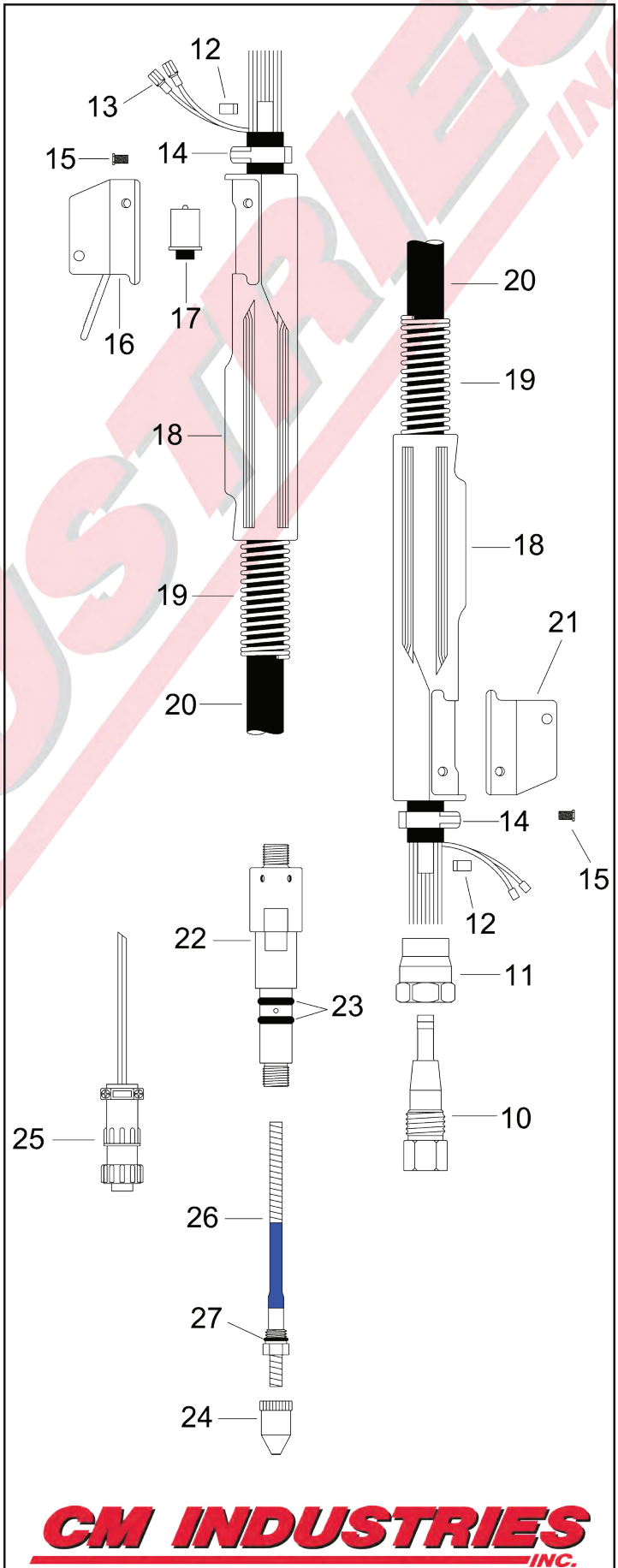
RATING	GUN ORDERING PART NUMBER		POWER PIN Direct Connect
400 Amp CO2 @ 100% Duty Cycle 400 Amp Mixed Gas @ 60% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 5/64" (2.0mm)	M169-602	10', .035"-.045" Liner	Miller®
	M169-604	12', .035"-.045" Liner	Miller®
	M169-606	15', .035"-.045" Liner	Miller®
	M169-606-20	20', .035"-.045" Liner	Miller®
	M169-606-25	25', .035"-.045" Liner	Miller®
Direct Plugs available for Euro, Hobart®, Lincoln® "LN", Lincoln® Power MIG™, and Tweco®.			

#	Part Number	Description
1.	M200-258 M169-724 M169-725 M169-726 M169-727 M176-243	Nozzle 1/2", Flush Tip Nozzle 1/2", Recess 1/8" Nozzle 5/8", Recess 1/8", Std. Nozzle 5/8", Flush Tip Nozzle 5/8", Stickout 1/8" Nozzle 3/8", Tapered
2.	M087-299 M000-067 M000-068 M172-034 M000-069 M044-392 M172-024 M172-025	Contact Tip, .023" 0.6mm Contact Tip, .030" 0.8mm Contact Tip, .035" 0.9mm Contact Tip, 3/64" 1.19mm Contact Tip, .045" 1.2mm, Std. Contact Tip, .052" 1.4mm Contact Tip, 1/16" 1.6mm Contact Tip, 5/64" 2.0mm
3.	M176-797 M176-793 M176-794	Contact Tip, Tapered, .030" 0.8mm Contact Tip, Tapered, .035" 0.9mm Contact Tip, Tapered, .045" 1.2mm
4.	M169-728	Tip Adaptor
5.	M169-729 M170-467 M170-468	Nozzle Retainer Repl. Retaining Ring Repl. O-Ring
6.	M169-730	Shock Washer
7.	M169-744	Conductor Tube Assembly
8.	M170-453	Body
9.	M602-177	Repl. Body Screw
10.	M170-452	Connector Cone
11.	M170-451	Cone Nut



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INC.

#	Part Number	Description
12.	M170-460	Inner Tube Clamp
13.	M169-746	Switch Lead Connector
14.	M170-457	Outer Jacket Clamp
15.	R411-3	Mounting Screw
16.	M170-456	Switch Housing
17.	M170-455	Switch
18.	M170-454	Handle, Front & Rear
19.	M170-458	Spring Guard, Front & Rear
20.	M400-10	Unicable Assembly w/ Handles, 10'
	M400-12	Unicable Assembly w/ Handles, 12'
	M400-15	Unicable Assembly w/ Handles, 15'
	M400-20	Unicable Assembly w/ Handles, 20'
	M400-25	Unicable Assembly w/ Handles, 25'
21.	R416-5	Control Housing
22.	M169-745	Miller Power Pin
23.	M079-974	O-Ring, Miller
24.	M169-723	Guide Cap, Miller .035"-1/16" Wire
25.	300-05-001	Electrical Plug, Miller
26.	M194-010	Liner Assembly, 15', .023"-.025"
	M194-011	Liner Assembly, 15', .030"-.035"
	M194-011-25	Liner Assembly, 25', .030"-.035"
	M194-012	Liner Assembly, 15', .035"-.045", Std.
	M194-012-25	Liner Assembly, 25', .035"-.045"
	M194-013	Liner Assembly, 15', 1/16"-5/64"
	M194-014	Liner Assembly, 15', .035"-3/64", Aluminum
27.	M079-975	Liner O-Ring



CM INDUSTRIES
INC.

T-Series MIG Guns

Semi-Automatic, Air-Cooled, MIG Welding Gun



PARTS LIST

MADE IN USA

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047

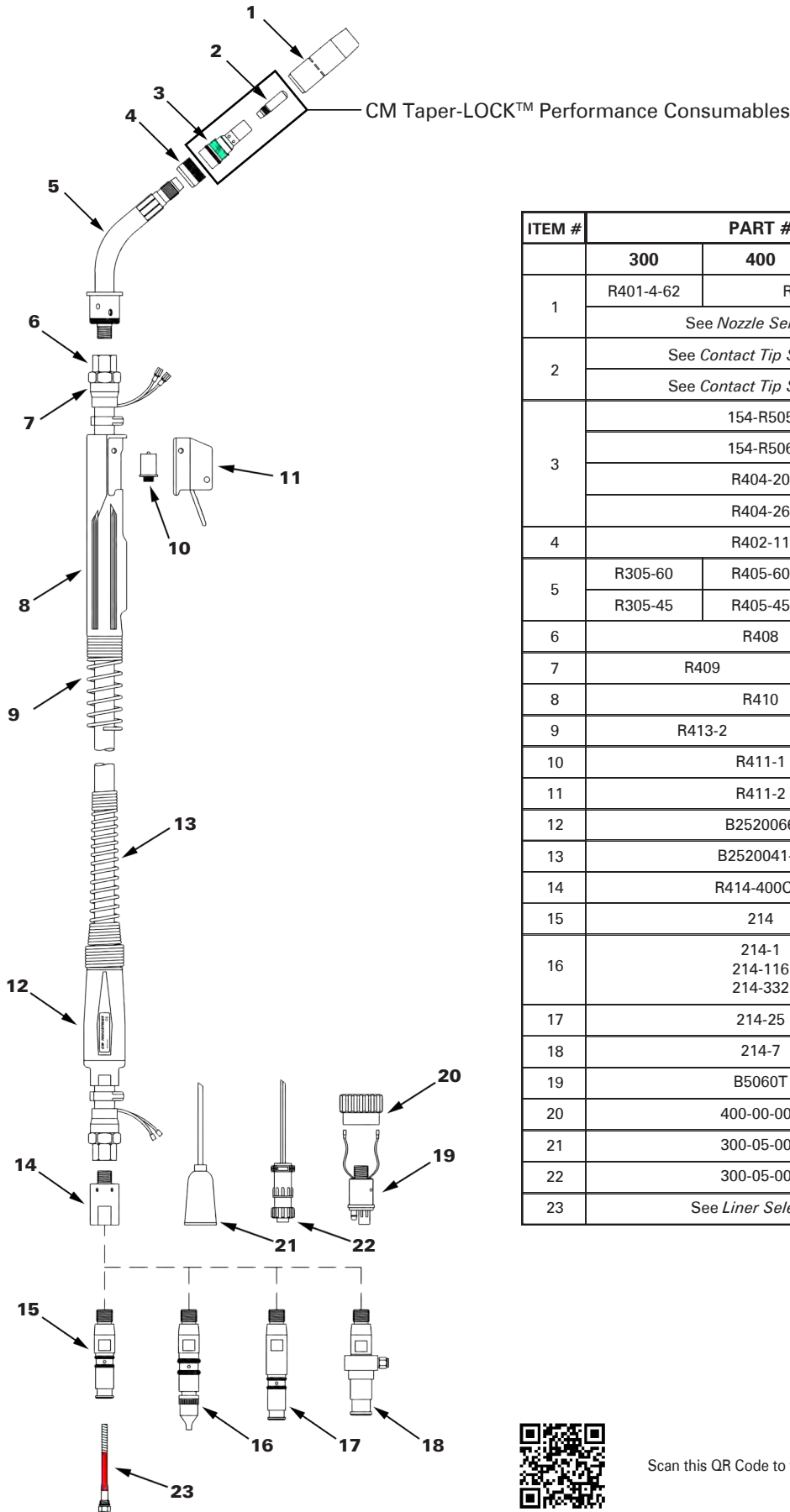
ph: 847-550-0033 fx: 847-550-0444

email: sales@cmindustries.com

February 2020 v1.4

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PARTS LIST - T-Series Replacement Parts for 300, 400 & 500 Amps



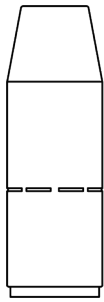
ITEM #	PART #			DESCRIPTION
	300	400	500	
1	R401-4-62	R401-6-62		Nozzle, std.
	See Nozzle Selection			Nozzle, Optional Available
2	See Contact Tip Selection			Contact Tip, CMI Taper-LOCK™
	See Contact Tip Selection			Contact Tip, Tough Lock™
3	154-R505			Diffuser, H.D., CMI Taper-LOCK™
	154-R506			Diffuser, Tapered, CMI Taper-LOCK™
	R404-20			Diffuser, H.D., Tough Lock™
	R404-26			Diffuser, Dual-Tapered, Tough Lock™
4	R402-11			Neck Insulator
5	R305-60	R405-60	R505-60	Neck, 60° - Standard
	R305-45	R405-45	R505-45	Neck, 45° - Optional
6	R408			Connector Cone
7	R409		R509	Cone Nut
8	R410			Handle
9	R413-2		R513-2	Handle Spring
10	R411-1			Switch
11	R411-2			Switch Housing
12	B2520066			Strain Relief Kit
13	B2520041-S			Strain Relief Spring
14	R414-400CM			Power Pin Block
15	214			Power Pin, Tweco® #4
16	214-1			Power Pin, Miller®
	214-116			Power Pin Cap, .023"-1/16"
	214-332			Power Pin Cap, 5/64"-3/32"
17	214-25			Power Pin, Lincoln® PM & LF
18	214-7			Power Pin, Lincoln® LN
19	B5060T			Euro Connector Plug
20	400-00-001			Euro Connector Nut
21	300-05-001			Control Plug, Miller® / Lincoln® PM
22	300-05-002			Control Plug, Lincoln® LN & LF
23	See Liner Selection			Liner



Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

Nozzles (Optional Available)



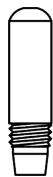
Light Duty	
R401-4-38	3/8", Flush Tip
R401-4-50	1/2", 1/8" Tip Recess
R401-4-62	5/8", 1/8" Tip Recess
R401-4-75	3/4", 1/8" Tip Recess
R401-8-62	5/8", 1/8" Tip Stickout, Short Arc
R401-42-50	1/2", Bottleneck, 1/8" Tip Recess
R401-48-50	1/2", Bottleneck, 1/8" Tip Stickout



Heavy Duty	
R401-5-50	1/2", 1/4" Tip Recess
R401-5-62	5/8", 1/4" Tip Recess
R401-5-75	3/4", 1/4" Tip Recess
R401-6-50	1/2", 1/8" Tip Recess
R401-6-62	5/8", 1/8" Tip Recess
R401-6-75	3/4", 1/8" Tip Recess
R401-7-62	5/8", 1/4" Tip Recess, Brass
R401-7-75	3/4", 1/4" Tip Recess, Brass
R401-7-87	7/8", 1/4" Tip Recess, Brass

Contact Tips

CM Industries Taper-LOCK™ Contact Tips



Heavy Duty	
155-1-030	0.030" (0.8mm)
155-1-035	0.035" (0.9mm)
155-1-040	0.040" (1.0mm)
155-1-045	0.045" (1.2mm)
155-1-364	3/64" (1.2mm)
155-1-052	0.052" (1.4mm)
155-1-062	0.062" (1.6mm)
155-1-1.8	0.071" (1.8mm)
155-1-564	5/64" (2.0mm)
155-1-332	3/32" (2.4mm)



Heavy Duty - Tapered	
155-2-030	0.030" (0.8mm)
155-2-035	0.035" (0.9mm)
155-2-040	0.040" (1.0mm)
155-2-045	0.045" (1.2mm)
155-2-364	3/64" (1.2mm)
155-2-052	0.052" (1.4mm)
155-2-062	0.062" (1.6mm)
155-2-1.8	0.071" (1.8mm)



X-tra Heavy Duty	
155-3-030	0.030" (0.8mm)
155-3-035	0.035" (0.9mm)
155-3-040	0.040" (1.0mm)
155-3-045	0.045" (1.2mm)
155-3-364	3/64" (1.2mm)
155-3-052	0.052" (1.4mm)
155-3-062	0.062" (1.6mm)
155-1-564	5/64" (2.0mm)
155-3-332	3/32" (2.4mm)
155-3-764	7/64" (2.8mm)

Comparable to Tregaskiss™ Tough Lock™ Contact Tips



Heavy Duty	
R403-20-30	0.030" (0.8mm)
R403-20-35	0.035" (0.9mm)
R403-20-1.0	0.040" (1.0mm)
R403-20-45	0.045" (1.2mm)
R403-20-364	3/64" (1.2mm)
R403-20-52	0.052" (1.4mm)
R403-20-116	1/16" (1.6mm)
R403-20-1.8	0.071" (1.8mm)
R403-20-564	5/64" (2.0mm)
R403-20-332	3/32" (2.4mm)



Heavy Duty - Tapered	
R403-21-30	0.030" (0.8mm)
R403-21-35	0.035" (0.9mm)
R403-21-1.0	0.040" (1.0mm)
R403-21-45	0.045" (1.2mm)
R403-21-52	0.052" (1.4mm)
R403-21-116	1/16" (1.6mm)



Extra Heavy Duty	
R603-20-45	0.045" (1.2mm)
R603-20-52	0.052" (1.4mm)
R603-20-116	1/16" (1.6mm)
R603-20-564	5/64" (2.0mm)
R603-20-332	3/32" (2.4mm)

Liners

Universal Conventional Liners

10' (3.05m) Gun Lengths

L3A-10	for 0.035" - 0.045" wire
L4A-10	for 0.045" - 1/16" wire

15' (4.57m) Gun Lengths

L1A-15	for 0.023" - 0.030" wire
L2A-15	for 0.030" - 0.035" wire
L3A-15	for 0.035" - 0.045" wire
L4A-15	for 0.045" - 1/16" wire
L6A-15	for 5/64" wire
L7A-15	for 3/32" wire
L8A-15	for 7/64" - 1/8" wire

25' (7.62m) Gun Lengths

L1A-25	for 0.023" - 0.030" wire
L2A-25	for 0.030" - 0.035" wire
L3A-25	for 0.035" - 0.045" wire
L4A-25	for 0.045" - 1/16" wire
L6A-25	for 5/64" wire
L7A-25	for 3/32" wire
L8A-25	for 7/64" - 1/8" wire

Conventional Liners

10' (3.05m) Gun Lengths

R415-35-10	for 0.035" - 0.045" wire
R415-116-10	for 0.045" - 1/16" wire

15' (4.57m) Gun Lengths

R415-30-15	for 0.030" - 0.035" wire
R415-35-15	for 0.035" - 0.045" wire
R415-116-15	for 0.045" - 1/16" wire
R415-564-15	for 5/64" wire
R415-332-15	for 3/32" wire

25' (7.62m) Gun Lengths

R415-30-25	for 0.030" - 0.035" wire
R415-35-25	for 0.035" - 0.045" wire
R415-116-25	for 0.045" - 1/16" wire
R415-564-25	for 5/64" wire
R415-332-25	for 3/32" wire

Conventional Liners for Aluminum

10' (3.05m) Gun Lengths

415-45-02	for 0.035" - 3/64" wire Polymer Liner
415-116-22	for 3/64" - 1/16" wire Polymer Liner

15' (4.57m) Gun Lengths

415-45-03	for 0.035" - 3/64" wire Polymer Liner
415-35-2	for 0.035" - 0.045" wire Steel Wrapped Nylon
415-116-2	for 0.045" - 1/16" wire Steel Wrapped Nylon
415-116-23	for 0.045" - 1/16" wire Polymer Liner

25' (7.62m) Gun Lengths

415-45-04	for 0.035" - 3/64" wire Polymer Liner
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Ordering Information

Amperage

RQ30	300 Amps
RQ40	400 Amps
RQ50	500 Amps

Gun Length

08	8 ft. (2.44m)
10	10 ft. (3.05m)
12	12 ft. (3.66m)
15	15 ft. (4.57m)
20	20 ft. (6.16m)
25	25 ft. (7.63m)

Handle and Trigger

300 Amp	M	Standard Trigger
T-Series Straight Handle		
400 Amp	M	Standard Trigger
T-Series Straight Handle		
500 Amp	M	Standard Trigger
T-Series Straight Handle		

RQ40 15 M S 4E M C*

Neck

O	Fixed, Short	45°	R305-45
P	Fixed, Short	60°	R305-60
R	Fixed, Medium	45°	R405-45
S	Fixed, Medium	60°	R405-60
U	Fixed, Long	45°	R505-45
V	Fixed, Long	60°	R505-60

Contact Tip

CMI Taper-LOCK™

4B	0.030" (0.8mm)	155-1-030
4C	0.035" (0.9mm)	155-1-035
4D	0.040" (1.0mm)	155-1-040
4E	0.045" (1.2mm)	155-1-045
4R	3/64" (1.3mm)	155-1-364
4H	0.052" (1.4mm)	155-1-052
4I	1/16" (1.6mm)	155-1-062
4K	5/64" (2.0mm)	155-1-564
4L	3/32" (2.4mm)	155-1-332

Power Pin

B	Bernard™
E	Euro
H	Hobart®
L	Lincoln® LN
S	Lincoln® LF/Power Feed
R	Lincoln® Power MIG
M	Miller®
O	OXO®
P	Panasonic®
T	Tweco® 4 (Standard Lead)
W	Tweco® 5 (Standard Lead)
X	Tweco® 5 (Miller Lead)

Contact Tip

Comparable to Tregaskiss™


3B	0.030" (0.8mm)	R403-20-30
3C	0.035" (0.9mm)	R403-20-35
3D	0.040" (1.0mm)	R403-20-1.0
3E	0.045" (1.2mm)	R403-20-45
3R	3/64" (1.3mm)	R403-20-364
3H	0.052" (1.4mm)	R403-20-52
3I	1/16" (1.6mm)	R403-20-116
3K	5/64" (2.0mm)	R403-20-564
3L	3/32" (2.4mm)	R403-20-332


***Universal Conventional Liner**


CM Industries, Inc. is in no way affiliated with above-named manufacturers. References to above-named parts, feeders, and part numbers are for your reference only.

SAFETY WARNINGS!

READ BEFORE USE

 The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the welding power source Owner's Manual.

 Read and follow all Safety Standards. Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.

 During operation, keep everybody, especially children, away.

ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Replace worn, damaged, or cracked guns or cables.
- Turn off welding power source before changing contact tip or gun parts.
- Keep all covers and handle securely in place.

FUMES AND GASES can be hazardous.

- Keep your head out of the fumes.
- Ventilate area, or use breathing device. The recommended way to determine adequate ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

WELDING can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on containers that have held combustibles, or on closed containers such as tanks, drums, or pipes unless they are properly prepared according to AWS F4.1 and AWS A6.0 (see Safety Standards).
- Watch for fire; keep extinguisher nearby.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

HOT PARTS can burn.

- Allow gun to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.



MOVING PARTS can injure.

- Keep away from moving parts.
- Keep away from pinch points such as drive rolls.



ARC RAYS can burn eyes and skin.

- Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.
- Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes from arc rays and sparks when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards).
 - Wear approved safety glasses with side shields under your helmet.
 - Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.
 - Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.



BUILDUP OF GAS can injure or kill.

- Shut off compressed gas supply when not in use.
- Always ventilate confined spaces or use approved air-supplied respirator.



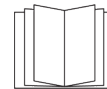
NOISE can damage hearing.

- Noise from some processes or equipment can damage hearing.
- Check for noise level limits exceeding those specified by OSHA.
 - Use approved ear plugs or ear muffs if noise level is high.
 - Warn others nearby about noise hazard.



WELDING WIRE can injure.

- Keep hands and body away from gun tip when trigger is pressed.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit.
- Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
- Perform installation, maintenance, and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

CALIFORNIA PROPOSITION 65 WARNING

This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use. (California Health & Safety Code Section 25249.5)

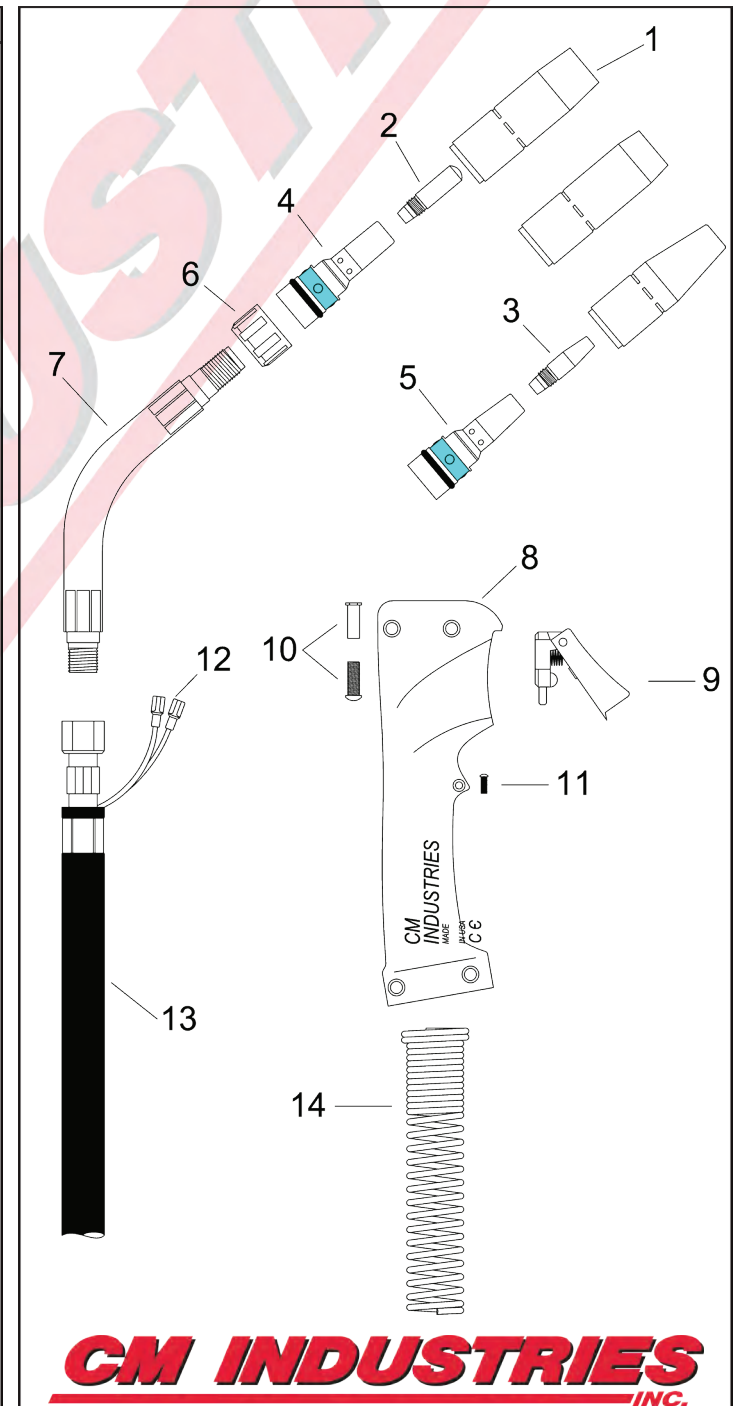
TRG 250

AIR-COOLED MIG GUN

Replacement Suitable for Tregaskiss®

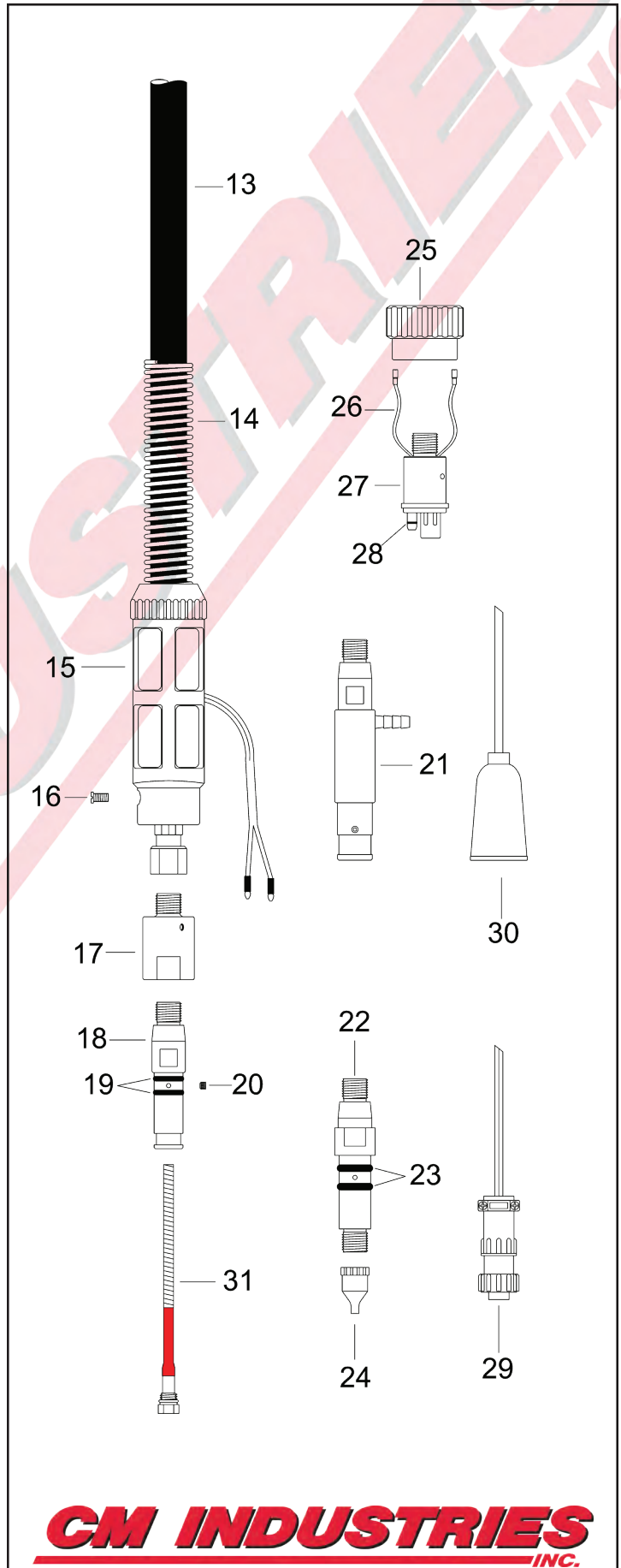
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
250 Amp CO2 @ 80% Duty Cycle 200 Amp Mixed Gas @ 80% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	R25xx-35 RB25xx-35 RE25xx-35 RLN25xx-35 RLF25xx-35 RLPM25xx-35 RM25xx-35 RPA25xx-35	Tweco® #4 Bernard® Euro Lincoln® "LN" Lincoln® "LF"/Powerfeed 10 Lincoln® Power MIG™ Miller® Panasonic®
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	R401-4-38 R401-4-50 R401-4-62 R401-4-75	Nozzle, 3/8", Flush Tip Nozzle, 1/2", 1/8" Tip Recess, Std. Nozzle, 5/8", 1/8" Tip Recess Nozzle, 3/4", 1/8" Tip Recess
2.	CM "Taper-LOCK" Contact Tips 155-1-030 155-1-035 155-1-040 155-1-045 155-1-364	H.D. Contact Tip, .030" (0.8mm) H.D. Contact Tip, .035" (0.9mm) H.D. Contact Tip, .040" (1.0mm) H.D. Contact Tip, .045" (1.2mm) H.D. Contact Tip, 3/64" (1.2mm)
3.	155-2-030 155-2-035 155-2-040 155-2-045 155-2-364	H.D. Tapered Contact Tip, .030" (0.8mm) H.D. Tapered Contact Tip, .035" (0.9mm) H.D. Tapered Contact Tip, .040" (1.0mm) H.D. Tapered Contact Tip, .045" (1.2mm) H.D. Tapered Contact Tip, 3/64" (1.2mm)
4.	154-R505	Diffuser H.D., for CM Taper-LOCK Tip
5.	154-R506	Diffuser, for CM Taper-LOCK Tip
6.	R402-7 R402-11	Neck Insulator, Std. Neck Insulator, H.D.
7.	R205-45 R205-60	Neck 250A, 45° Neck 250A, 60°
8.	R210-100	Handle
9.	246-376	Trigger
10.	R210-102	Handle Post & Screw
11.	R210-103	Screw
12.	R412-1	Switch Lead Connector
13.	R213-10 R213-12 R213-15	Unicable Assembly, 10' Unicable Assembly, 12' Unicable Assembly, 15'



CM INDUSTRIES
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#	Part Number	Description
14.	185-26-001	Cable Support Spring
15.	260-25-002	Adaptor Support
16.	285-01-001	Screw
17.	R414-200	Power Pin Block, 250
18.	R214	Power Pin, Tweco
19.	R414-1	O-Ring
20.	C44C	Liner Set Screw
21.	R214-2	Power Pin, Lincoln
22.	R214-1	Power Pin, Miller
23.	R414-11-2	O-Ring, Miller
24.	R214-116	Guide Cap, Miller .035"-1/16" Wire
25.	401-00-001	Adaptor Nut
26.	285-03-002	Male Pin w/ Lead
27.	R425-10CM	Power Pin, Euro
28.	285-00-002	O-Ring, Euro
29.	300-05-001	Electrical Plug, Miller
30.	300-05-002	Electrical Plug, Lincoln
31.	R415-23-15	Liner Assembly, 15' .023"
	R415-30-15	Liner Assembly, 15' .030"
	R415-35-15	Liner Assembly, 15' .035"-.045", Std.
	R415-116-15	Liner Assembly, 15' .045"-1/16"
	R415-35-2	Liner Assembly, Aluminum, 15', .035"-3/64"
	R415-116-2	Liner Assembly, Aluminum, 15', 3/64"-1/16"



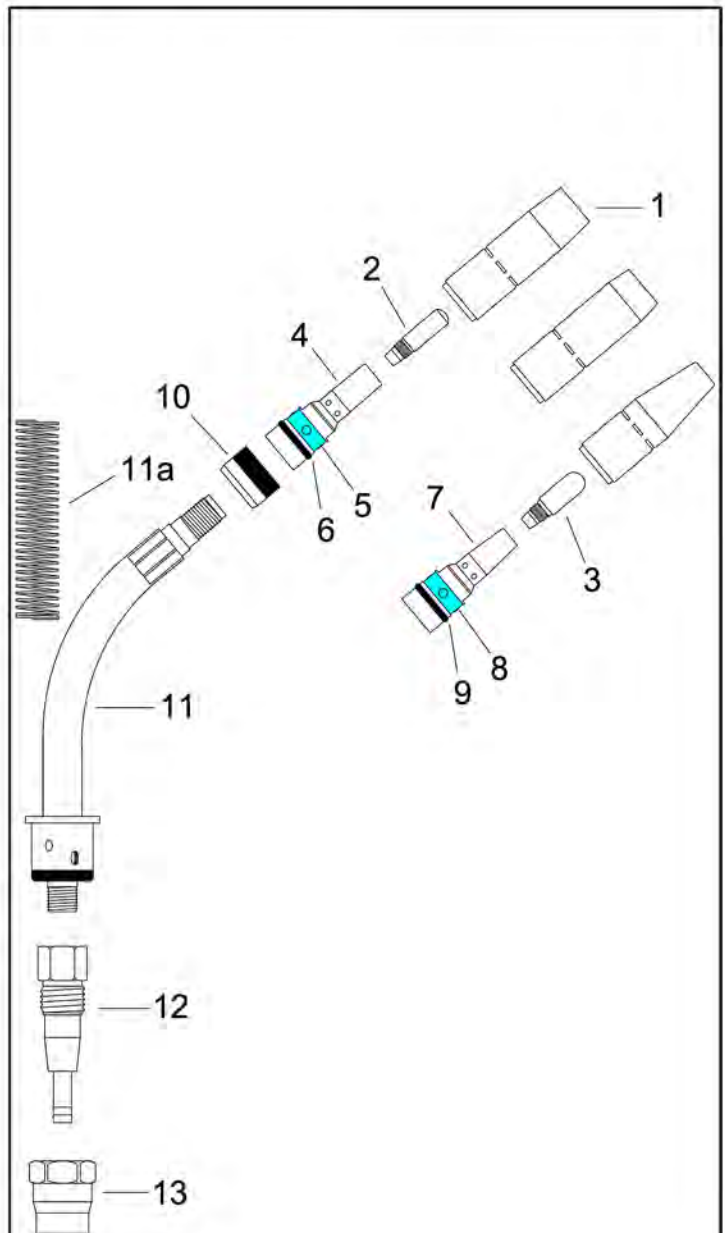
TRG 600

AIR-COOLED MIG GUN

Replacement Suitable for Tregaskiss®

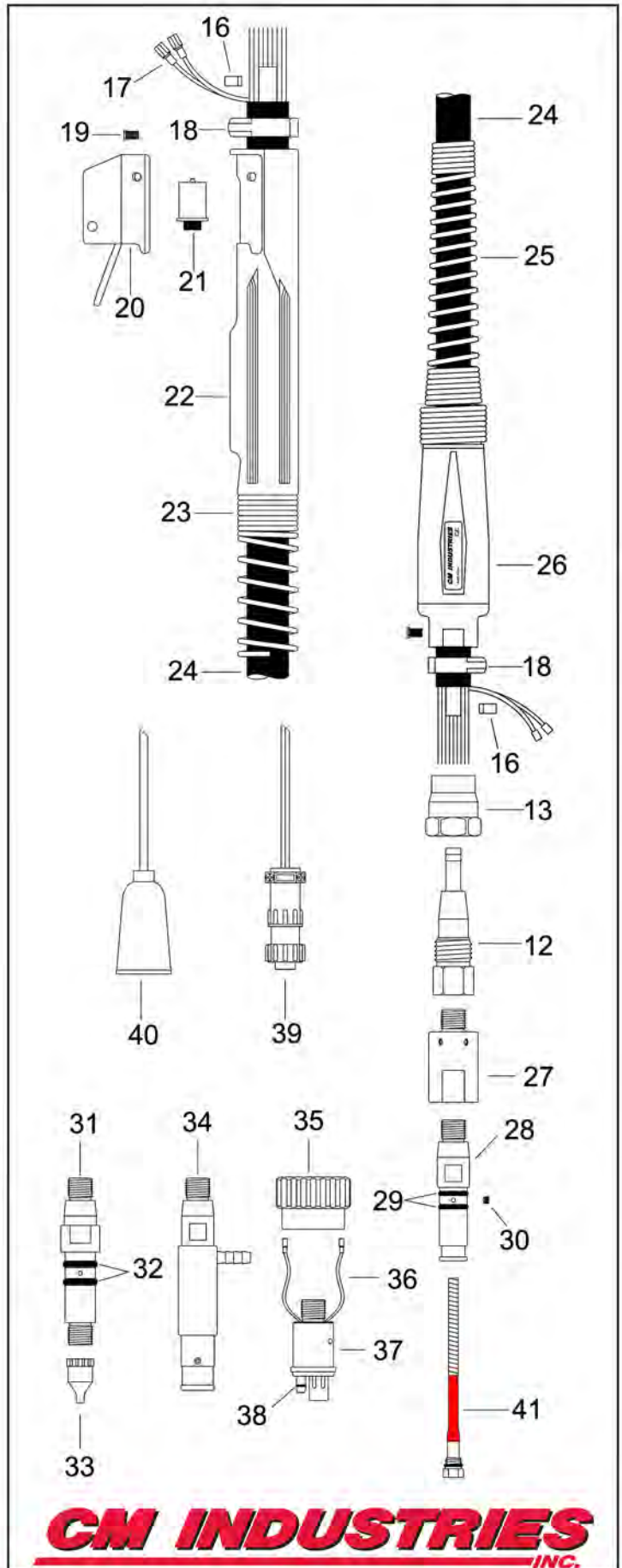
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
600 Amp CO2 @ 80% Duty Cycle 450 Amp Mixed Gas @ 80% Duty Cycle Wire Capacity: 0.035" (0.9mm) - 3/32" (2.4mm)	R60xx-332 RB60xx-332 RE60xx-332 RLN60xx-332 RLF60xx-332 RM60xx-332 RPA60xx-332 RTW60xx-332	Tweco® #4 Bernard® Euro Lincoln® "LN" Lincoln® "LF"/Powerfeed 10 Miller® Panasonic® Tweco® #5
	xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.	

#	Part Number	Description	
1.	R401-5-50	Nozzle, H.D., 1/2", 1/4" Tip Recess	
	R401-5-62	Nozzle, H.D., 5/8", 1/4" Tip Recess	
	R401-5-75	Nozzle, H.D., 3/4", 1/4" Tip Recess	
	R401-6-50	Nozzle, H.D., 1/2", 1/8" Tip Recess	
	R401-6-62	Nozzle, H.D., 5/8", 1/8" Tip Recess	
	R401-6-75	Nozzle, H.D., 3/4", 1/8" Tip Recess	
	R401-5-62H	Nozzle, H.D., 5/8", 1/4" Tip Recess, Heavy Wall	
	R401-5-75H	Nozzle, H.D., 3/4", 1/4" Tip Recess, Heavy Wall	
	R401-6-62H	Nozzle, H.D., 5/8", 1/8" Tip Recess, Heavy Wall	
	R401-6-75H	Nozzle, H.D., 3/4", 1/8" Tip Recess, Heavy Wall	
	2.	CM "Taper-LOCK" Contact Tips	
		155-1-035	H.D. Contact Tip, .035" (0.9mm)
155-1-045		H.D. Contact Tip, .045" (1.2mm)	
155-1-364		H.D. Contact Tip, 3/64" (1.2mm)	
155-1-052		H.D. Contact Tip, .052" (1.4mm)	
155-1-062		H.D. Contact Tip, .062" (1.6mm)	
155-1-564		H.D. Contact Tip, 5/64" (2.0mm)	
155-1-332	H.D. Contact Tip, 3/32" (2.4mm)		
3.	155-3-045	X-H.D. Contact Tip, .045" (1.2mm)	
	155-3-052	X-H.D. Contact Tip, .052" (1.4mm)	
	155-3-062	X-H.D. Contact Tip, .062" (1.6mm)	
	155-3-332	X-H.D. Contact Tip, 3/32" (2.4mm)	
4.	154-R505	Diffuser H.D., for CM Taper-LOCK Tip	
5.	154-1	Replacement Retaining Ring	
6.	154-2	Replacement O-Ring	
7.	154-R506	Diffuser, for CM Taper-LOCK Tip	
8.	154-1	Replacement Retaining Ring	
9.	154-2	Replacement O-Ring	
10.	R402-11	Neck Insulator	
11.	R505-45	Neck w/ Body, 45°	
	R505-60	Neck w/ Body, 60°	
	R505-180	Neck w/ Body, 180°	
11a.	R506-1	Neck Spring Guard (optional)	
12.	R608	Connector Cone	
13.	R609	Cone Nut	



CM INDUSTRIES
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#	Part Number	Description
16.	R413-5	Inner Tube Clamp
17.	R412-1	Switch Lead Connector
18.	R413-1	Outer Jacket Clamp
19.	R411-3	Mounting Screw
20.	R411-2	Switch Housing
21.	R411-1	Switch
22.	R410	Handle, Front
23.	R613-2	Spring Guard, Front
24.	R613-10	Unicable Assembly, 10'
	R613-12	Unicable Assembly, 12'
	R613-15	Unicable Assembly, 15'
	R613-20	Unicable Assembly, 20'
	R613-25	Unicable Assembly, 25'
25.	B2520041-S	Strain Relief Spring
26.	B2520066	Strain Relief Kit
27.	R414-400CM	Power Pin Block
28.	R214	Power Pin, Tweco
29.	R414-1	O-Ring
30.	C44C	Liner Set Screw
31.	R214-1	Power Pin, Miller
32.	R414-11-2	O-Ring, Miller
33.	R214-116	Guide Cap, Miller .035"-1/16" Wire
34.	R214-2	Power Pin, Lincoln "LN"
35.	401-00-001	Adaptor Nut
36.	285-03-002	Male Pin w/ Lead
37.	R425-10CM	Power Pin, Euro
38.	285-00-002	O-Ring, Euro
39.	300-05-001	Electrical Plug, Miller
40.	300-05-002	Electrical Plug, Lincoln
41.	R415-30-15	Liner Assembly, .030", 15'
	R415-35-15	Liner Assembly .035"-.045", 15'
	R415-116-15	Liner Assembly .045"-1/16", 15'
	R415-564-15	Liner Assembly, 1/16-5/64", 15'
	R415-332-15	Liner Assembly, 5/64-3/32", 15'
	R415-35-2	Liner Assembly .035"-3/64", 15' Aluminum
	R415-116-2	Liner Assembly 3/64"-1/16", 15' Aluminum
	R415-35-0	Teflon Liner Assy., .035"-3/64", 15' Aluminum
	R415-116-0	Teflon Liner Assy., 3/64"-1/16", 15' Aluminum
	R415-35-25	Liner Assembly .035"-.045", 25'
	R415-116-25	Liner Assembly .045"-1/16", 25'
	R415-564-25	Liner Assembly, 1/16-5/64", 25'
	R415-332-25	Liner Assembly, 5/64-3/32", 25'



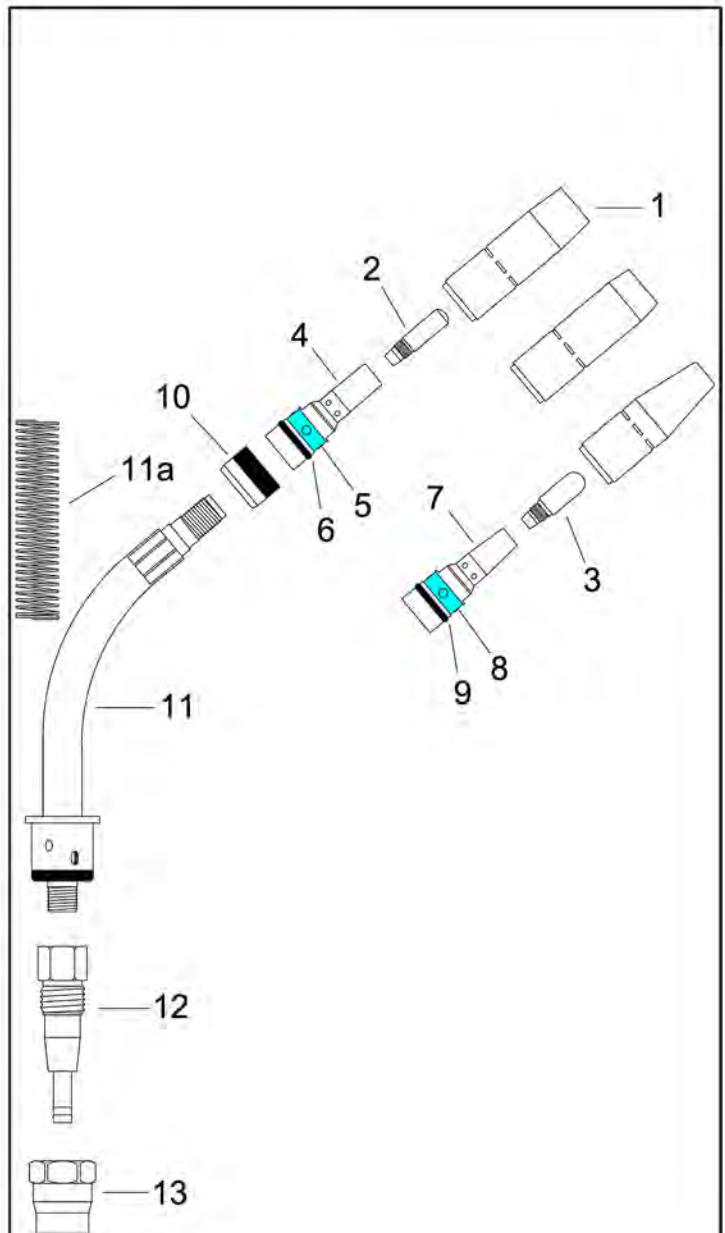
TRG 600

AIR-COOLED MIG GUN

Replacement Suitable for Tregaskiss®

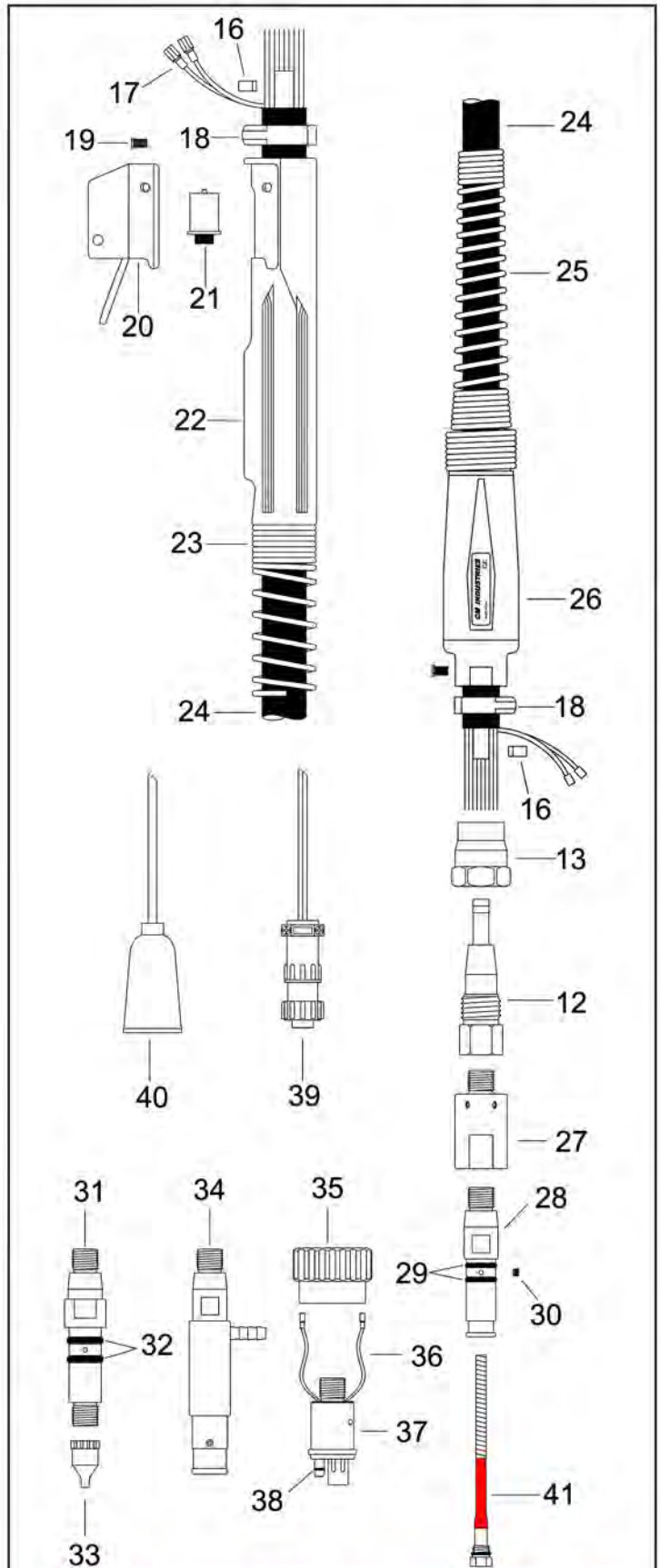
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
600 Amp CO2 @ 80% Duty Cycle 450 Amp Mixed Gas @ 80% Duty Cycle Wire Capacity: 0.035" (0.9mm) - 3/32" (2.4mm)	R60xx-332 RB60xx-332 RE60xx-332 RLN60xx-332 RLF60xx-332 RM60xx-332 RPA60xx-332 RTW60xx-332	Tweco® #4 Bernard® Euro Lincoln® "LN" Lincoln® "LF"/Powerfeed 10 Miller® Panasonic® Tweco® #5
	xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.	

#	Part Number	Description	
1.	R401-5-50	Nozzle, H.D., 1/2", 1/4" Tip Recess	
	R401-5-62	Nozzle, H.D., 5/8", 1/4" Tip Recess	
	R401-5-75	Nozzle, H.D., 3/4", 1/4" Tip Recess	
	R401-6-50	Nozzle, H.D., 1/2", 1/8" Tip Recess	
	R401-6-62	Nozzle, H.D., 5/8", 1/8" Tip Recess	
	R401-6-75	Nozzle, H.D., 3/4", 1/8" Tip Recess	
	R401-5-62H	Nozzle, H.D., 5/8", 1/4" Tip Recess, Heavy Wall	
	R401-5-75H	Nozzle, H.D., 3/4", 1/4" Tip Recess, Heavy Wall	
	R401-6-62H	Nozzle, H.D., 5/8", 1/8" Tip Recess, Heavy Wall	
	R401-6-75H	Nozzle, H.D., 3/4", 1/8" Tip Recess, Heavy Wall	
	2.	CM "Taper-LOCK" Contact Tips	
		155-1-035	H.D. Contact Tip, .035" (0.9mm)
155-1-045		H.D. Contact Tip, .045" (1.2mm)	
155-1-364		H.D. Contact Tip, 3/64" (1.2mm)	
155-1-052		H.D. Contact Tip, .052" (1.4mm)	
155-1-062		H.D. Contact Tip, .062" (1.6mm)	
155-1-564		H.D. Contact Tip, 5/64" (2.0mm)	
155-1-332	H.D. Contact Tip, 3/32" (2.4mm)		
3.	155-3-045	X-H.D. Contact Tip, .045" (1.2mm)	
	155-3-052	X-H.D. Contact Tip, .052" (1.4mm)	
	155-3-062	X-H.D. Contact Tip, .062" (1.6mm)	
	155-3-332	X-H.D. Contact Tip, 3/32" (2.4mm)	
4.	154-R505	Diffuser H.D., for CM Taper-LOCK Tip	
5.	154-1	Replacement Retaining Ring	
6.	154-2	Replacement O-Ring	
7.	154-R506	Diffuser, for CM Taper-LOCK Tip	
8.	154-1	Replacement Retaining Ring	
9.	154-2	Replacement O-Ring	
10.	R402-11	Neck Insulator	
11.	R505-45	Neck w/ Body, 45°	
	R505-60	Neck w/ Body, 60°	
	R505-180	Neck w/ Body, 180°	
11a.	R506-1	Neck Spring Guard (optional)	
12.	R608	Connector Cone	
13.	R609	Cone Nut	



CM INDUSTRIES
INC.

#	Part Number	Description
16.	R413-5	Inner Tube Clamp
17.	R412-1	Switch Lead Connector
18.	R413-1	Outer Jacket Clamp
19.	R411-3	Mounting Screw
20.	R411-2	Switch Housing
21.	R411-1	Switch
22.	R410	Handle, Front
23.	R613-2	Spring Guard, Front
24.	R613-10	Unicable Assembly, 10'
	R613-12	Unicable Assembly, 12'
	R613-15	Unicable Assembly, 15'
	R613-20	Unicable Assembly, 20'
	R613-25	Unicable Assembly, 25'
25.	B2520041-S	Strain Relief Spring
26.	B2520066	Strain Relief Kit
27.	R414-400CM	Power Pin Block
28.	R214	Power Pin, Tweco
29.	R414-1	O-Ring
30.	C44C	Liner Set Screw
31.	R214-1	Power Pin, Miller
32.	R414-11-2	O-Ring, Miller
33.	R214-116	Guide Cap, Miller .035"-1/16" Wire
34.	R214-2	Power Pin, Lincoln "LN"
35.	401-00-001	Adaptor Nut
36.	285-03-002	Male Pin w/ Lead
37.	R425-10CM	Power Pin, Euro
38.	285-00-002	O-Ring, Euro
39.	300-05-001	Electrical Plug, Miller
40.	300-05-002	Electrical Plug, Lincoln
41.	R415-30-15	Liner Assembly, .030", 15'
	R415-35-15	Liner Assembly .035"-.045", 15'
	R415-116-15	Liner Assembly .045"-1/16", 15'
	R415-564-15	Liner Assembly, 1/16-5/64", 15'
	R415-332-15	Liner Assembly, 5/64-3/32", 15'
	R415-35-2	Liner Assembly .035"-3/64", 15' Aluminum
	R415-116-2	Liner Assembly 3/64"-1/16", 15' Aluminum
	R415-35-0	Teflon Liner Assy., .035"-3/64", 15' Aluminum
	R415-116-0	Teflon Liner Assy., 3/64"-1/16", 15' Aluminum
	R415-35-25	Liner Assembly .035"-.045", 25'
	R415-116-25	Liner Assembly .045"-1/16", 25'
	R415-564-25	Liner Assembly, 1/16-5/64", 25'
	R415-332-25	Liner Assembly, 5/64-3/32", 25'



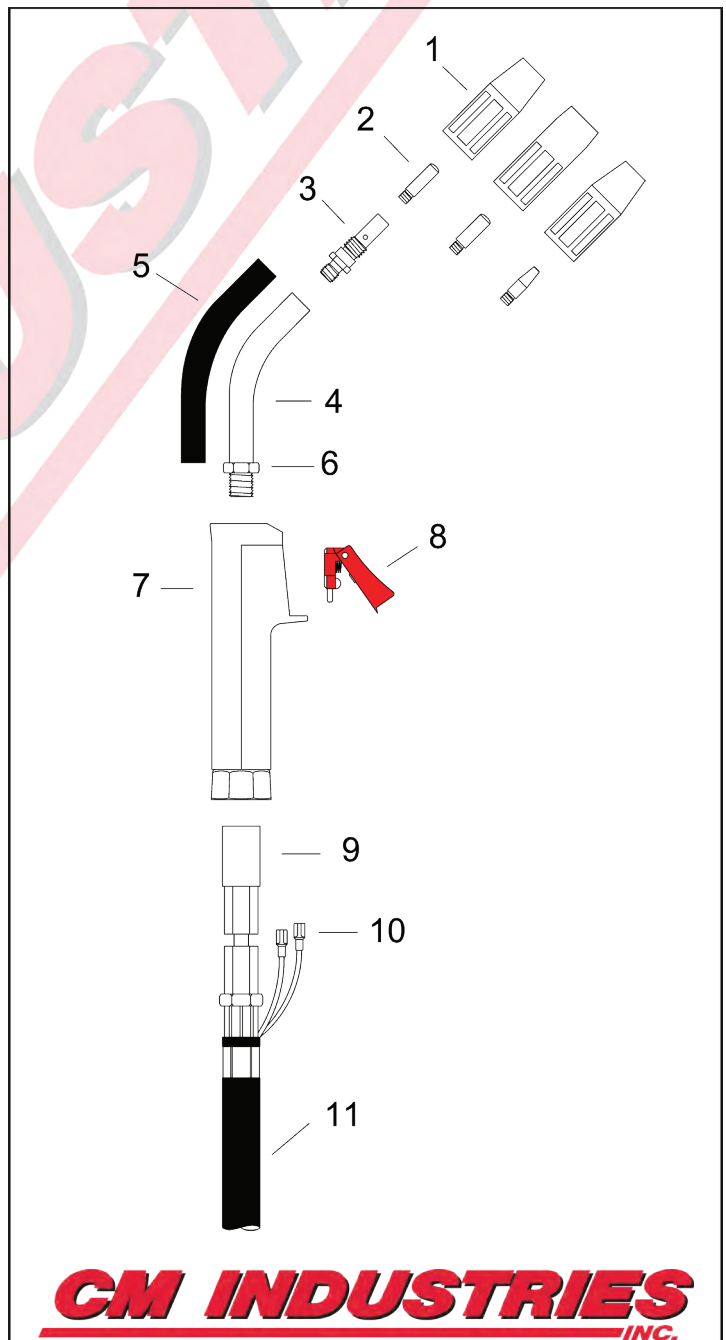
TWC 160

AIR-COOLED MIG GUN

Replacement Suitable for Tweco®

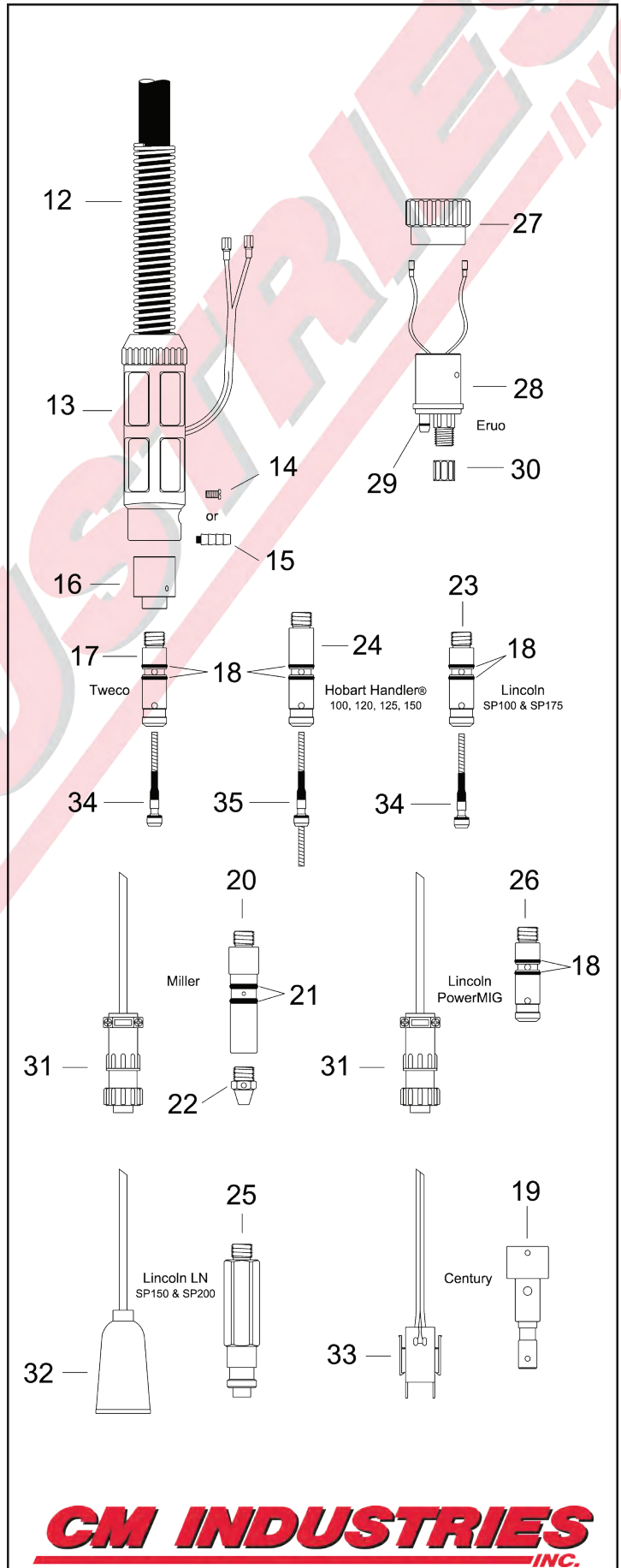
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
160 Amp CO2 @ 80% Duty Cycle 100 Amp Mixed Gas @ 80% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	C35-xx CC35-xx CX35-xx CH35-xx CH1035-xx CSP35-xx CL35-xx CLPM35-xx CM35-xx CT35-xx	No Gun Plug Century® Euro Hobart® Hobart® / Miller® H10 Lincoln® SP150 & SP200 Linc.® SP100, 125, 135, 175 Lincoln® Power MIG™ Miller® Tweco®
	xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.	

#	Part Number	Description	
1.	C21-50	Nozzle, 1/2" I.D., Std.	
	C21-50-F	Nozzle, 1/2" I.D. Flush	
	C21-62	Nozzle, 5/8" I.D.	
	C21-62-F	Nozzle, 5/8" I.D. Flush	
	C21-62-FAS	Spot Nozzle	
	C21-37	Nozzle, 3/8" I.D.	
	C21-37-F	Nozzle, 3/8" I.D. Flush	
	C21T-37	Nozzle Tapered, 3/8" I.D.	
	C21T-37-F	Nozzle Tapered, 3/8" I.D. Flush	
	2.	C11-23	Contact Tip, .023" 0.6mm
		C11-30	Contact Tip, .030" 0.8mm
C11-35		Contact Tip, .035" 0.9mm, Std.	
C11-40		Contact Tip, .040" 1.0mm	
C11-45		Contact Tip, .045" 1.2mm	
C11H-35		Contact Tip, H.D., .035" 0.9mm	
C11H-45		Contact Tip, H.D., .045" 1.2mm	
C11AH-364		Contact Tip, H.D., Aluminum, 3/64"	
C11T-23		Contact Tip, Tapered, .023" 0.6mm	
C11T-30		Contact Tip, Tapered, .030" 0.8mm	
C11T-35		Contact Tip, Tapered, .035" 0.9mm	
C11T-40		Contact Tip, Tapered, .040" 1.0mm	
C11T-45		Contact Tip, Tapered, .045" 1.2mm	
3.		C35-50	Gas Diffuser, Std.
4.		C35-60-45	Conductor Tube, 45°
	C35-60-60	Conductor Tube, 60°, Std.	
	C35-60-180	Conductor Tube, 180°	
	(Includes Items 4-6)		
5.	C35-70	Conductor Tube Insulation	
	C35-60-N	Conductor Tube Nut	
7.	C35-80CM	Handle, TWC 160	
8.	170-14-100	Trigger Switch	
9.	C35K-TWC	Conductor Tube Adaptor, TWC 160	
10.	300-05-003	Trigger Wire Connector	
11.	C35-010CM	Power Cable, 10', TWC 160	
	C35-012CM	Power Cable, 12', TWC 160	
	C35-015CM	Power Cable, 15', TWC 160	



CM INDUSTRIES
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#	Part Number	Description
12.	185-26-001	Cable Support Spring
13.	C35-230CM	Cable Support
14.	285-01-001	Adaptor Support Screw
15.	C35-170-4T	Gas Hose Nipple
16.	C35-170CM	Adaptor Block
17.	C35K-174C	Gun Plug, Tweco®
18.	C224	O-Ring
19.	CTAK-352-C1	Gun Plug, Century®
20.	CMAK-352	Gun Plug, Miller®
21.	C224M	O-Ring, Miller
22.	C174M-1N	Conduit Nut, Miller® Plug
23.	CTAK-352-L	Gun Plug, Lincoln® SP100 & SP175
24.	CTAK-352-H	Gun Plug, Hobart® Handler®
25.	CTLAK-352	Gun Plug, Lincoln® LN, SP150 & SP200
26.	CTAK-352-L	Gun Plug, Lincoln® Power MIG™
27.	C174X-2	Adaptor Nut
28.	C174EX-1	Euro-Kwik Adaptor Assembly
29.	C174EX-1G	O-Ring, Euro
30.	C174EX-1C	Conduit Nut, Euro Kwik
31.	300-05-001	Electrical Plug, Miller®/Lincoln® Power MIG™
32.	300-05-002	Electrical Plug, Lincoln® LN, SP150 & SP200
33.	300-05-005	Electrical Plug, Century®
34.	C23-40-15	Liner Assembly, 15' .023"
	C35-40-15	Liner Assembly, 15' .030"-.035", Std.
	C45-40-15	Liner Assembly, 15' .040"-.045"
	C35TF-40-10	Teflon Liner Assembly, 10' .030"-.035"
	C35TF-40-15	Teflon Liner Assembly, 15' .030"-.035"
	C45TF-40-10	Teflon Liner Assembly, 10' .040"-3/64"
	C45TF-40-15	Teflon Liner Assembly, 15' .040"-3/64"
35.	C23-40-15ST	Liner Assembly w/ Stickout, 15' .023"
	C35-40-15ST	Liner Assembly w/ Stickout, 15' .030"-.035"
	C45-40-15ST	Liner Assembly w/ Stickout, 15' .040"-.045"



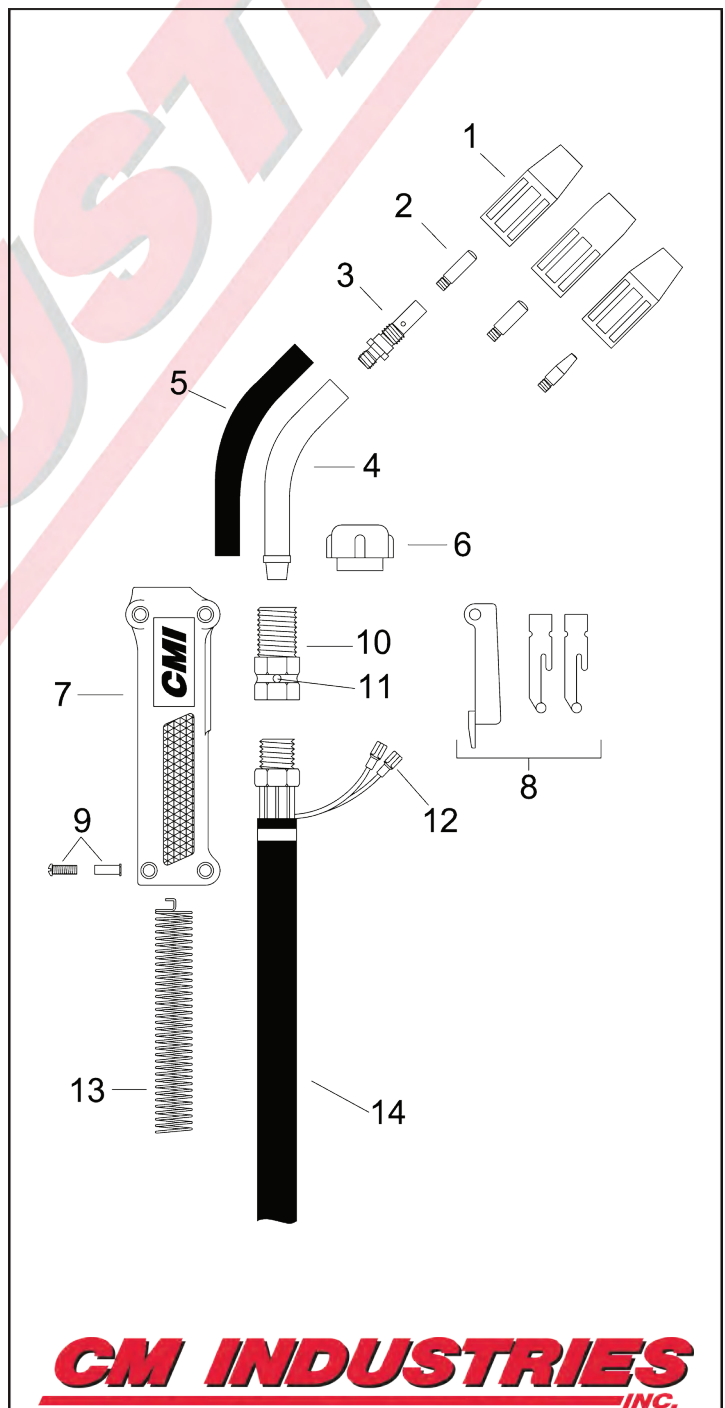
TWC 180

AIR-COOLED MIG GUN

Replacement Suitable for Tweco®

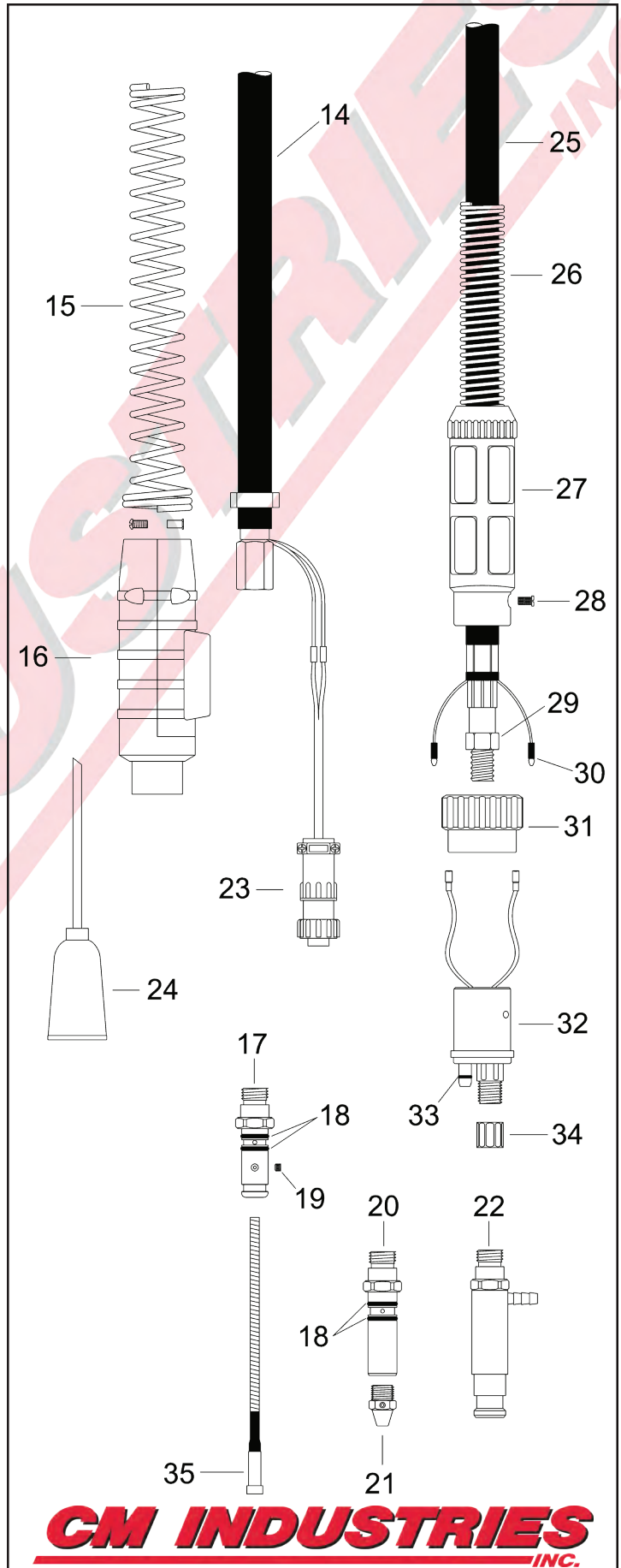
RATING	GUN ORDERING PART NUMBER	POWER PIN Direct Connect
180 Amp CO2 @ 80% Duty Cycle 120 Amp Mixed Gas @ 80% Duty Cycle Wire Capacity: 0.023" (0.6mm) - 0.045" (1.2mm)	C1xx-3035 CC1xx-3035 CX1xx-3035 CH1xx-3035 CL1xx-3035 CLPM1xx-3035 CM1xx-3035 CP1xx-3035	Tweco® #4 Century® Euro Hobart® Lincoln® "LN" Lincoln® Power MIG™ Miller® Panasonic®
xx = Standard lengths of 10, 12, 15, 20, and 25 ft. Custom lengths also available.		

#	Part Number	Description
1.	C21-50	Nozzle, 1/2" I.D., Std.
	C21-50-F	Nozzle, 1/2" I.D. Flush
	C21-62	Nozzle, 5/8" I.D.
	C21-62-F	Nozzle, 5/8" I.D. Flush
	C21-62-FAS	Nozzle, Spot Nozzle
	C21-37	Nozzle, 3/8" I.D.
	C21-37-F	Nozzle, 3/8" I.D. Flush
	C21T-37	Nozzle, Tapered 3/8" I.D.
	C21T-37-F	Nozzle, Tapered 3/8" I.D. Flush
	2.	C11-23
C11-30		Contact Tip, .030" 0.8mm
C11-35		Contact Tip, .035" 0.9mm, Std.
C11-40		Contact Tip, .040" 1.0mm
C11-45		Contact Tip, .045" 1.2mm
C11H-35		Contact Tip, H.D., .035" 0.9mm
C11H-45		Contact Tip, H.D., .045" 1.2mm
C11AH-364		Contact Tip, H.D., Aluminum, 3/64"
C11T-23		Contact Tip, Tapered, .023" 0.6mm
C11T-30		Contact Tip, Tapered, .030" 0.8mm
C11T-35	Contact Tip, Tapered, .035" 0.9mm	
C11T-40	Contact Tip, Tapered, .040" 1.0mm	
C11T-45	Contact Tip, Tapered, .045" 1.2mm	
3.	C51	Gas Diffuser, Std.
	C51-23	Gas Diffuser, For .023" Wire
4.	C61-45	Conductor Tube, 45°
	C61-60	Conductor Tube, 60°, Std.
	C61-180	Conductor Tube, 180° (Includes Items 4 & 5)
5.	C71	Conductor Tube Insulation
6.	C61R	Conductor Tube Nut
7.	C81	Handle w/ Screws, TWC 180
8.	C91	Trigger Switch w/ Blades
9.	C122FM	Binder Post & Screw
10.	C101CM	Cable Connector
11.	C44C	Replacement Set Screw
12.	C244DS	Control Wire Terminal
13.	C141-6S	Power Cable Support Spring
14.	C180-10	Power Cable, 10'
	C180-12	Power Cable, 12'
	C180-15	Power Cable, 15'
	C180-20	Power Cable, 20'
	C180-25	Power Cable, 25'



CM INDUSTRIES
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#	Part Number	Description
15.	C350R-230-10S	Cable Support Spring
16.	CR6RC	Round Connector Case
17.	C350-174H	Gun Plug, Tweco®
18.	C224	O-Ring
19.	C44C	Set Screw
20.	C350-174MH	Gun Plug, Miller®
21.	C174M-N	Conduit Nut, Miller®
22.	C350-174LH	Gun Plug, Lincoln® "LN"
23.	300-05-001	Electrical Plug, Miller® & Lincoln® Power MIG
24.	300-05-002	Electrical Plug, Lincoln® LN & LF
25.	C180-10E C180-12E C180-15E C180-20E C180-25E	Euro Power Cable, 10' Euro Power Cable, 12' Euro Power Cable, 15' Euro Power Cable, 20' Euro Power Cable, 25'
26.	185-26-001	Cable Support Spring
27.	260-25-002	Adaptor Support, Euro
28.	285-01-001	Adaptor Support Screw
29.	290-01-012	Hex Nut, M12
30.	300-05-010	Male Terminal
31.	C174X-2	Adaptor Nut
32.	C174EX-1	Euro-Kwik Adaptor Assembly
33.	C174EX-1G	O-Ring, Euro
34.	C174EX-1C	Conduit Nut, Euro-Kwik
35.	C42-23-15	Liner Assembly, 15' .023"
	C42-3035-15	Liner Assembly, 15' .030"-.035", Std.
	C42-3035-25	Liner Assembly, 25' .030"-.035"
	C42-4045-15	Liner Assembly, 15' .040"-.045"
	C42-4045-25	Liner Assembly, 25' .040"-.045"
	C42N-3545-15	Nylon Liner Assembly, 15' .035"-.045"



CM INDUSTRIES **INC.**

TWC #2, #3, #4 & #5

Semi-Automatic, Air-Cooled, MIG Welding Gun



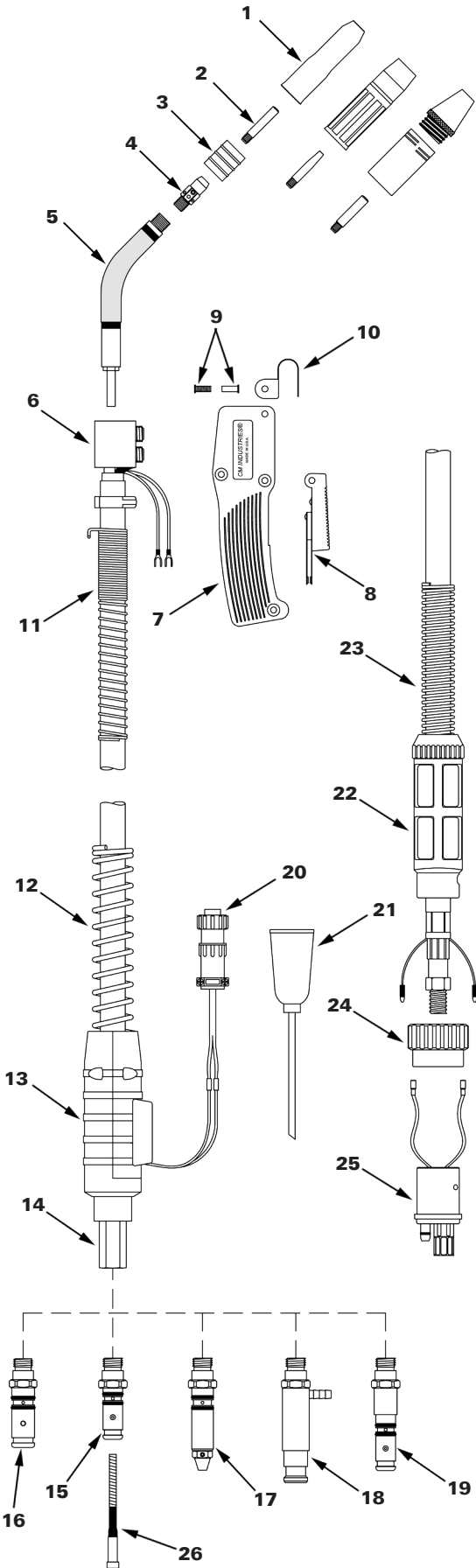
PARTS LIST

MADE IN USA

CM Industries, Inc.
505 Oakwood Rd. Lake Zurich, IL 60047
ph: 847-550-0033 fx: 847-550-0444
email: sales@cmindustries.com
www.cmindustries.com

July 2019 v1

PARTS LIST - Replacement Parts for TWC 200/250, 300, 400 & 500 Amps



ITEM #	PART #				DESCRIPTION
	200/250	300	400	500	
1	C22-50	C24A-62		C25CT-62	Nozzle
	See Nozzle Selection				Nozzles, Optional Available
2	See Contact Tip Selection				Contact Tip
3	C32	C34A		C35CT	Insulator
4	C52	C54A		C55SW	Diffuser, std.
	C52FN	N/A		N/A	Diffuser, for Fixed Nozzle
	N/A		C55		Diffuser, for 5/64"
	N/A		C55H		Diffuser, for 3/32" - 7/64"
5	C62J-60	C63J-60	C64J-60	C65J-60	Neck - 60° std.
	C62J-45	C63J-45	C64J-45	C65J-45	Neck - 45°
6	C102		C104		Cable Connector Block
7	C83		C84A	C85	Handle Kit
8	C92			C94R	Trigger Assembly
9	C122FM			C124FM	Binder Post & Screw
10	C152			C154	Hanger
11	C142-6S		C144-6S	C145-6S	Front Cable Support Spring
12	C350R-230-10S				Rear Cable Support Spring
13	CM6RC				Connector Case
14	N/A	CM170-4H		CM170-5H	Power Pin Adaptor
15	C350-174H			N/A	Power Pin, Tweco® #4
16	N/A			C176S-H	Power Pin, Tweco® #5
17	C350-174MH C174M-N		CEL176-MH C175M-N		Power Pin, Miller® Power Pin Cap
18	C350-174LH		CEL176-LH		Power Pin, Lincoln® LN
19	C350-174LPMH		N/A		Power Pin, Lincoln® PM & LF
20	300-05-001				Control Plug, Miller® / Lincoln® PM
21	300-05-002				Control Plug, Lincoln® LN & LF
22	260-25-002			260-52-003	Adaptor Support, Euro
23	185-26-001		185-40-001		Adaptor Support Spring
24	C174X-2				Euro Connector Nut
25	C174EX-1				Euro Connector Plug*
26	See Liner Selection				Liner



Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

Nozzles (Optional Available)

Slip-On



200/250 Amp	
C22-37	3/8" I.D. Adjustable
C22-50	1/2" I.D. Adjustable, Std.
C22-62	5/8" I.D. Adjustable
C22-37-SS	3/8" I.D. Short Stop
C22-50-SS	1/2" I.D. Short Stop
C22-62-SS	5/8" I.D. Short Stop
C22T-37-SS	Tapered, 3/8" I.D. Short Stop
300 & 400 Amp	
C24A-50	1/2" I.D. Adjustable
C24A-62	5/8" I.D. Adjustable, Std.
C24A-75	3/4" I.D. Adjustable
C24A-37-SS	3/8" I.D. Short Stop
C24A-50-SS	1/2" I.D. Short Stop
C24A-62-SS	5/8" I.D. Short Stop
C24A-75-SS	3/4" I.D. Short Stop
C24AT-37-SS	Tapered, 3/8" I.D. Short Stop

Thread-On, Self Insulated



200/250, 300 & 400 Amp	
C23-37	3/8" I.D.
C23-50	1/2" I.D.
C23-62	5/8" I.D.
C23-75	5/8" I.D.
C23T-37	Tapered, 3/8" I.D.

Heavy Duty - 2 Piece



200/250, 300 & 400 Amp	
C24CT-37-S	3/8" I.D.
C24CT-50-S	1/2" I.D.
C24CT-62-S	5/8" I.D.
C24CT-75-S	3/4" I.D.
C34CT	Insulator
500 Amp	
C25CT-50	1/2" I.D.
C25CT-62	5/8" I.D.
C25CT-75	3/4" I.D.
C35CT	Insulator

Contact Tips

14 Series



C14-30	.030" 0.8mm
C14-35	.035" 0.9mm
C14-40	.040" 1.0mm
C14-45	.045" 1.2mm
C14-52	.052" 1.4mm
C14-116	1/16" 1.6mm
C14A-364	Aluminum, 3/64"

14T Series



C14T-30	Tapered, .030" 0.8mm
C14T-35	Tapered, .035" 0.9mm
C14T-40	Tapered, .040" 1.0mm
C14T-45	Tapered, .045" 1.2mm
C14T-52	Tapered, .052" 1.4mm
C14T-116	Tapered, 1/16" 1.6mm

14H Series



C14H-35	H.D., .035" 0.9mm
C14H-40	H.D., .040" 1.0mm
C14H-45	H.D., .045" 1.2mm
C14H-52	H.D., .052" 1.4mm
C14H-116	H.D., 1/16" 1.6mm
C14AH-364	H.D., Aluminum, 3/64"
C14AH-116	H.D., Aluminum, 1/16"

15H Series



C15H-35	H.D., .035" 0.9mm
C15H-40	H.D., .040" 1.0mm
C15H-45	H.D., .045" 1.2mm
C15H-52	H.D., .052" 1.4mm
C15H-116	H.D., 1/16" 1.6mm
C15H-564	H.D., 5/64" 2.0mm
C15H-332	H.D., 3/32" 2.4mm
C15H-764	H.D., 7/64" 2.8mm
C15AH-364	H.D., Aluminum, 3/64"
C15AH-116	H.D., Aluminum, 1/16"

15HFC Series



C15HFC-35	H.D., .035" 0.9mm
C15HFC-40	H.D., .040" 1.0mm
C15HFC-45	H.D., .045" 1.2mm
C15HFC-52	H.D., .052" 1.4mm
C15HFC-116	H.D., 1/16" 1.6mm
C15HFC-564	H.D., 5/64" 2.0mm
C15HFC-332	H.D., 3/32" 2.4mm
C15HFC-764	H.D., 7/64" 2.8mm

Liners

200/250 Amp

C42-23-15	15', .023"
C42-3035-15	15', .030"-.035"
C42-3035-25	25', .030"-.035"
C42-4045-15	15', .040"-.045"
C42-4045-25	25', .040"-.045"
C42N-3545-15	Nylon 15', .035"-.045"

300 & 400 Amp

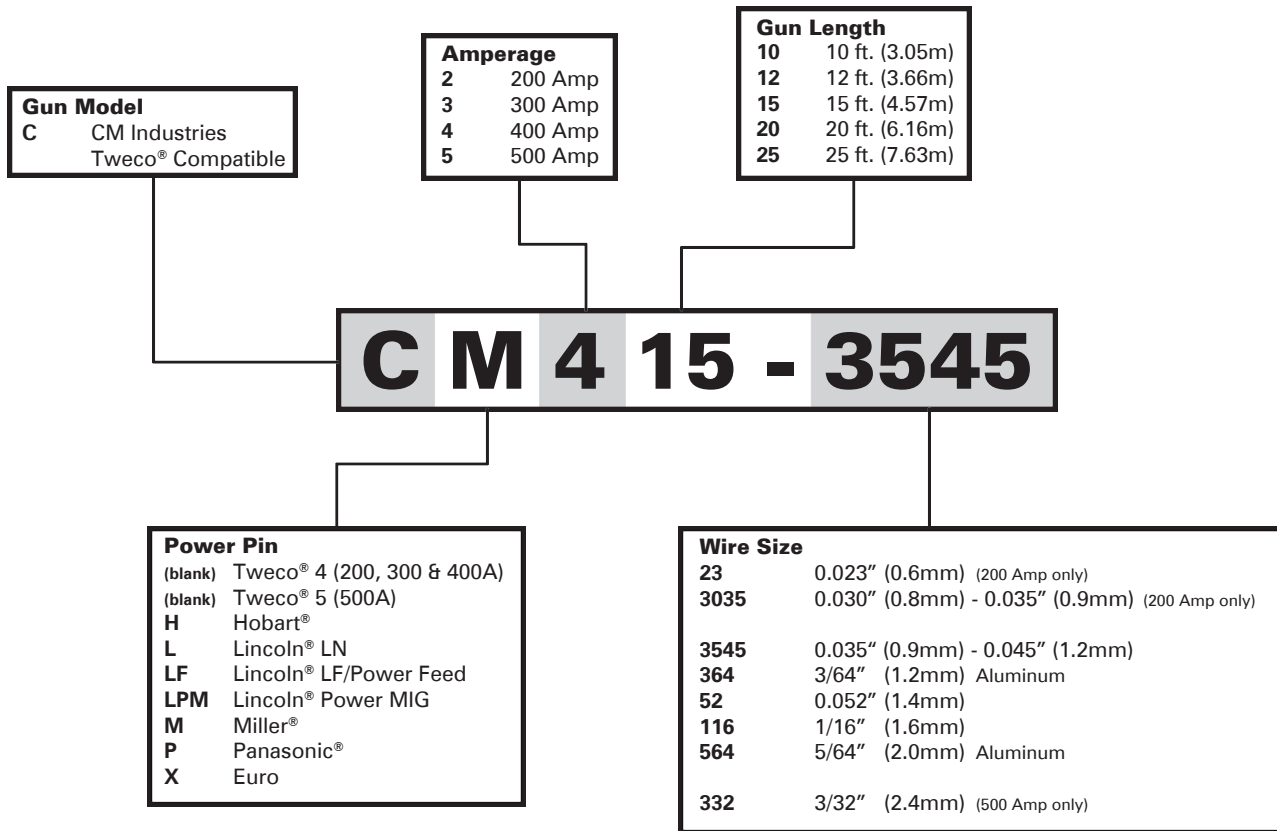
C44-3545-15	15', .035"-.045"
C44-3545-25	25', .035"-.045"
C44-116-15	15', .062"
C44-116-25	25', .062"
C44-564-15	15', 5/64"
C44-564-25	25', 5/64"
C44N-3545-15	Nylon 15', .035"-.045"
C44N-116-15	Nylon 15', .062"

* Euro Connectors only accept
44 Series Liners

500 Amp Only


C45-3545-15	15' .035"-.045"
C45-3545-25	25' .035"-.045"
C45-116-15	15' .062"
C45-116-25	25' .062"
C45-564-15	15' 5/64"
C45-564-25	25' 5/64"
C45H-332-15	15' 3/32"
C45H-332-25	25' 3/32"
C45H-764-15	15' 7/64"
C45H-764-25	25' 7/64"
C45N-3545-15	15' .035"-.045"
C45N-116-15	15' 3/64"-.062"
C45SN-116-15	Steel/Nylon 15' .062"
C45TF-116-15	Teflon 15' 3/64"-.062"



Ordering Information



Example of 250 Amp Part# CM250-3545-15 TWC 250 Amp 15' w/ Miller DP

SAFETY WARNINGS! READ BEFORE USE

 The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the welding power source Owner's Manual.

 Read and follow all Safety Standards.
 Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.

 During operation, keep everybody, especially children, away.

ELECTRIC SHOCK can kill.

- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Replace worn, damaged, or cracked guns or cables.
- Turn off welding power source before changing contact tip or gun parts.
- Keep all covers and handle securely in place.

FUMES AND GASES can be hazardous.

- Keep your head out of the fumes.
- Ventilate area, or use breathing device. The recommended way to determine adequate ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

WELDING can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on containers that have held combustibles, or on closed containers such as tanks, drums, or pipes unless they are properly prepared according to AWS F4.1 and AWS A6.0 (see Safety Standards).
- Watch for fire; keep extinguisher nearby.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.

HOT PARTS can burn.

- Allow gun to cool before touching.
- Do not touch hot metal.
- Protect hot metal from contact by others.



MOVING PARTS can injure.

- Keep away from moving parts.
- Keep away from pinch points such as drive rolls.



ARC RAYS can burn eyes and skin.

- Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.
- Wear an approved welding helmet fitted with a proper shade of filter lenses to protect your face and eyes from arc rays and sparks when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards).
 - Wear approved safety glasses with side shields under your helmet.
 - Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.
 - Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.



BUILDUP OF GAS can injure or kill.

- Shut off compressed gas supply when not in use.
- Always ventilate confined spaces or use approved air-supplied respirator.



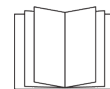
NOISE can damage hearing.

- Noise from some processes or equipment can damage hearing.
- Check for noise level limits exceeding those specified by OSHA.
 - Use approved ear plugs or ear muffs if noise level is high.
 - Warn others nearby about noise hazard.



WELDING WIRE can injure.

- Keep hands and body away from gun tip when trigger is pressed.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit.
- Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
- Perform installation, maintenance, and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

CALIFORNIA PROPOSITION 65 WARNING

This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use. (California Health & Safety Code Section 25249.5)

CM INDUSTRIES **INC.**

Water Cooler WC2500



Operating Manual and Parts List

MODEL	PART#	BTU/HOURS	GALLONS	LITER	VOLTS	AMPS	HZ
WC2500	680-25-100	12,000	2.5	9.4	115	5.0	50/60
WC2500	680-25-102	12,000	2.5	9.4	230	2.5	50/60

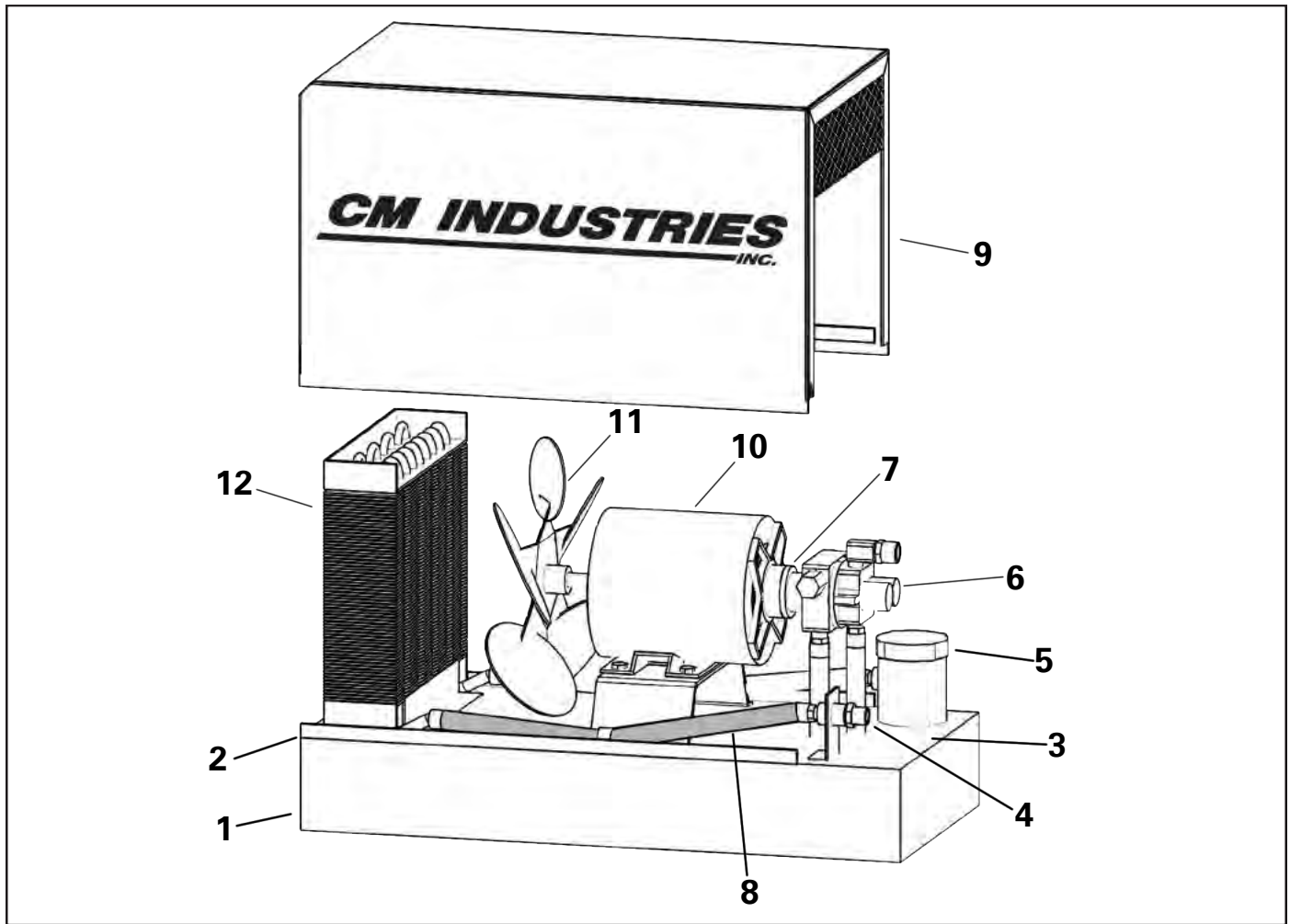
MADE IN USA

**DO NOT INSTALL, OPERATE, OR REPAIR THIS EQUIPMENT
WITHOUT READING THIS OPERATING MANUAL**

CM INDUSTRIES
INC.

July 2017

505 Oakwood Rd. Lake Zurich, IL 60047
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email: sales@cmindustries.com
www.cmindustries.com



WC2500 - 2.5 GL STAINLESS STEEL WATER COOLER

Specifications:

Dimensions:

18" Long x 9 1/4" Wide x 12 3/8" High
(45.8 cm x 23.5 cm x 31.4 cm)

Reservoir:

2.5 Gallon Capacity

Pump Capacity:

100 psi max. 1.5 gpm (5.68 lpm) @ 50 psi.
1.8 gpm (6.81 lpm) @ 60 psi.

Motor Voltage:

115V or 230VAC, Single Phase, 50/60 Hz

Amperage:

5.0/6.8, 2.5/3.4

Heat Exchanger:

High Efficiency, Copper Core, Rustproof, 12,000 BTU

#	PART #	DESCRIPTION
1	680-30-020	Tank
2	680-30-021	Tank Gasket
3	680-30-022	Tank Cover Plate
4	680-30-023	Inert Gas Adapter
5	680-30-024	Sight Glass Assembly
6	680-30-067	Pump, Rotary Vane
6a	680-30-069	Pump Screen
7	680-30-068	Clamp, Pump to Motor
8	680-30-025	Rubber Hose
9	680-35-026	Hood
10	680-30-061	Motor 115/230V 50/60Hz
11	680-30-027	Fan, 8"
12	680-30-028	Radiator

Water Connections:

5/8"-18 UNC Left-Handed Inert Gas Fittings

Net Weight:

40 lbs. (18.2 kg)

Approximate Shipping Weight:

42 lbs. (19.1 kg)

CM INDUSTRIES **INC.**

Water Cooler WC3500



Operating Manual and Parts List

MODEL	PART#	BTU/HOURS	GALLONS	LITER	VOLTS	AMPS	HZ
WC3500	690-25-100	15,000	2.5	11.4	115	5.0	50/60
WC3500	690-25-102	15,000	2.5	11.4	230	2.5	50/60

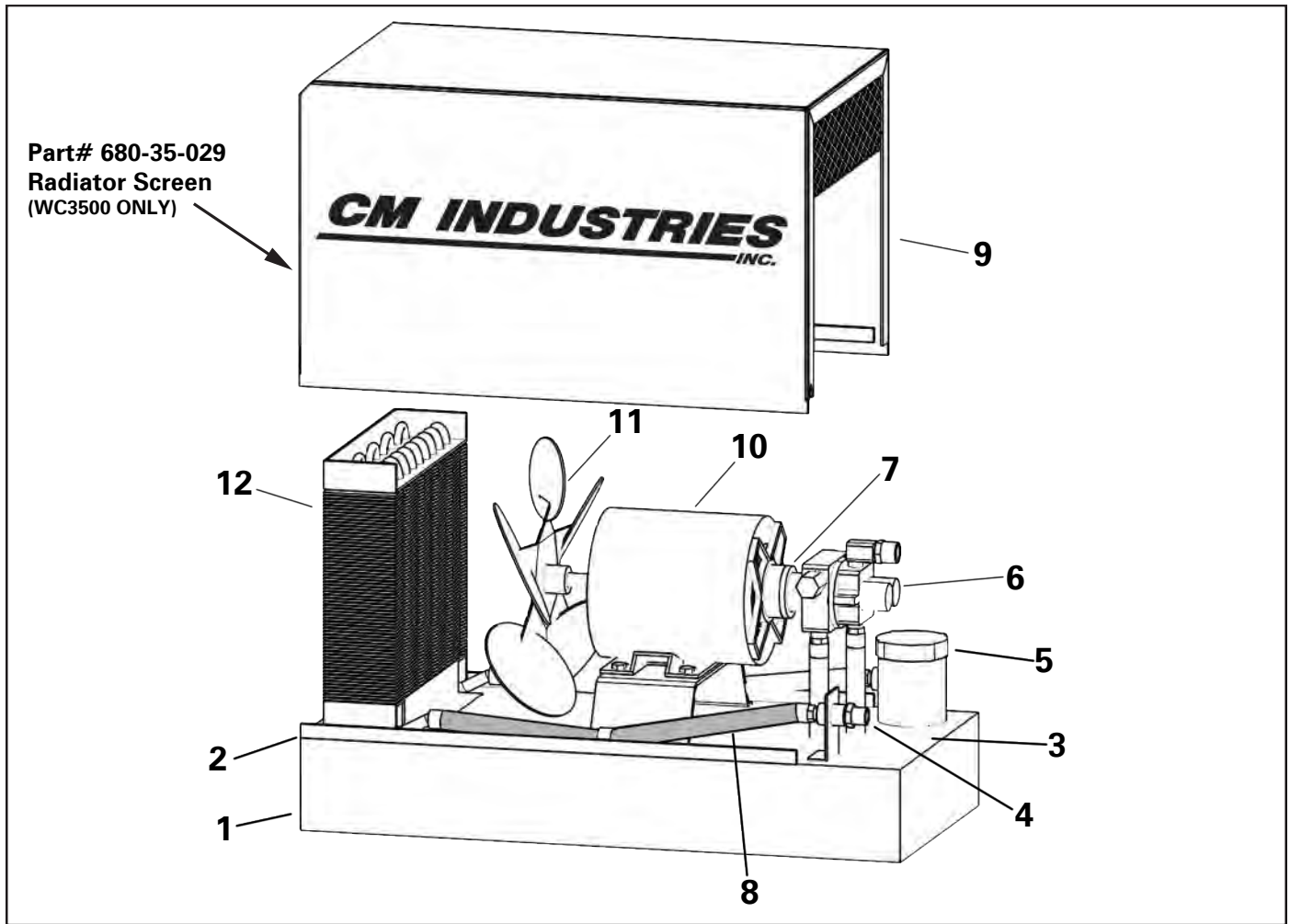
MADE IN USA

**DO NOT INSTALL, OPERATE, OR REPAIR THIS EQUIPMENT
WITHOUT READING THIS OPERATING MANUAL**

CM INDUSTRIES
INC.

July 2017

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email: sales@cmindustries.com
www.cmindustries.com



WC3500 - 3 GL STAINLESS STEEL WATER COOLER

Specifications:

Dimensions:

23" Long x 11" Wide x 14 3/4" High
(58.4 cm x 27.9 cm x 37.5 cm)

Reservoir:

3 Gallon Capacity

Pump Capacity:

100 psi max. 1.5 gpm (5.68 lpm) @ 50 psi.
1.8 gpm (6.81 lpm) @ 60 psi.

Motor Voltage:

115V or 230VAC, Single Phase, 50/60 Hz

Amperage:

5.0/6.8, 2.5/3.4

Heat Exchanger:

High Efficiency, Copper Core, Rustproof, 15,000 BTU

#	PART #	DESCRIPTION
1	680-35-020	Tank
2	680-35-021	Tank Gasket
3	680-35-022	Tank Cover Plate
4	680-30-023	Inert Gas Adapter
5	680-30-024	Sight Glass Assembly
6	680-30-067	Pump, Rotary Vane
6a	680-30-069	Pump Screen
7	680-30-068	Clamp, Pump to Motor
8	680-35-025	Rubber Hose
9	680-35-026	Hood
10	680-30-061	Motor 115/230V 50/60Hz
11	680-35-027	Fan, 10"
12	680-35-028	Radiator

Water Connections:

5/8"-18 UNC Left-Handed Inert Gas Fittings

Net Weight:

43 lbs. (19.5 kg)

Approximate Shipping Weight:

45 lbs. (20.5 kg)