

CM INDUSTRIES
INC.

BNZ 501AUTO

Automatic, Water-Cooled, MIG Welding Gun



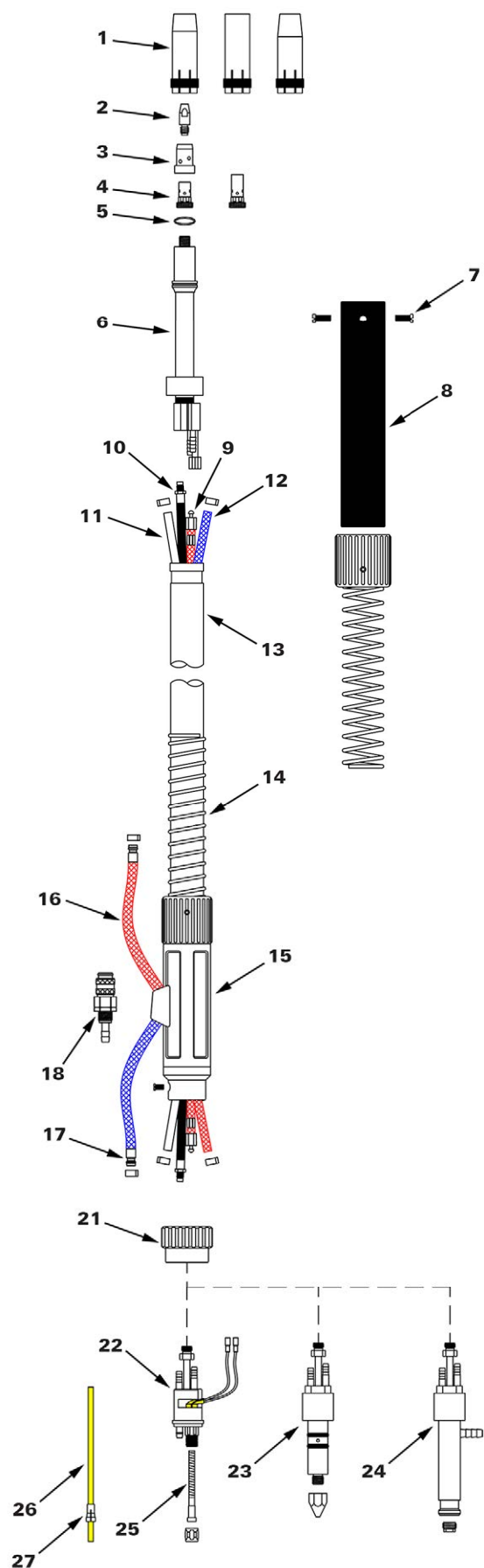
PARTS LIST

MADE IN USA

April 2020 v1

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PARTS LIST - Replacement Parts for BNZ 501AUTO



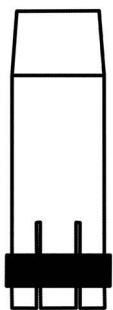
| ITEM # | PART # | DESCRIPTION |
|---|----------------------------------|---|
| | 501AUTO | |
| 1 | 165-52-001 | Nozzle, Conical, 5/8" |
| | <i>See Nozzle Selection</i> | Nozzles, Optional Available |
| 2 | <i>See Contact Tip Selection</i> | Contact Tip |
| 3 | 046-52-002 | Insulator / Gas Diffuser |
| | 046-52-003 | Insulator / Gas Diffuser - High Temp. |
| 4 | 160-08-402 | Contact Tip Holder, M8 |
| | 160-06-402 | Contact Tip Holder, M6 |
| 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 |
| 21 | 401-00-001 | Adaptor Nut |
| 22 | 401-02-052 | Adaptor Block, Euro |
| | 401-01-001 | Liner Retaining Nut |
| 23 | 401-02-054 | Connector Plug, Miller® |
| | 401-01-002 | Liner Retaining Nut, Miller® |
| 24 | 402-02-056 | Connector Plug, Lincoln® |
| | 401-01-004 | Liner Retaining Nut, Lincoln® |
| 25 | <i>See Liner Selection</i> | <i>See Liner Selection</i> |
| 26 | <i>See Liner Selection</i> | <i>See 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 |



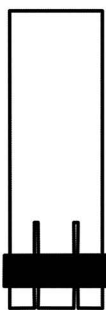
Scan this QR Code to take you directly to the Technical Info page of cmindustries.com

Consumable Selection

Nozzles (Optional Available)



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

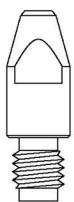


165-52-002 Cylindrical 3/4"



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

BZA5 06 - 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" |

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)