

**CM INDUSTRIES**  
**INC.**

# TRG 400 & 500 AUTO

Automatic, Air-Cooled, MIG Welding Gun

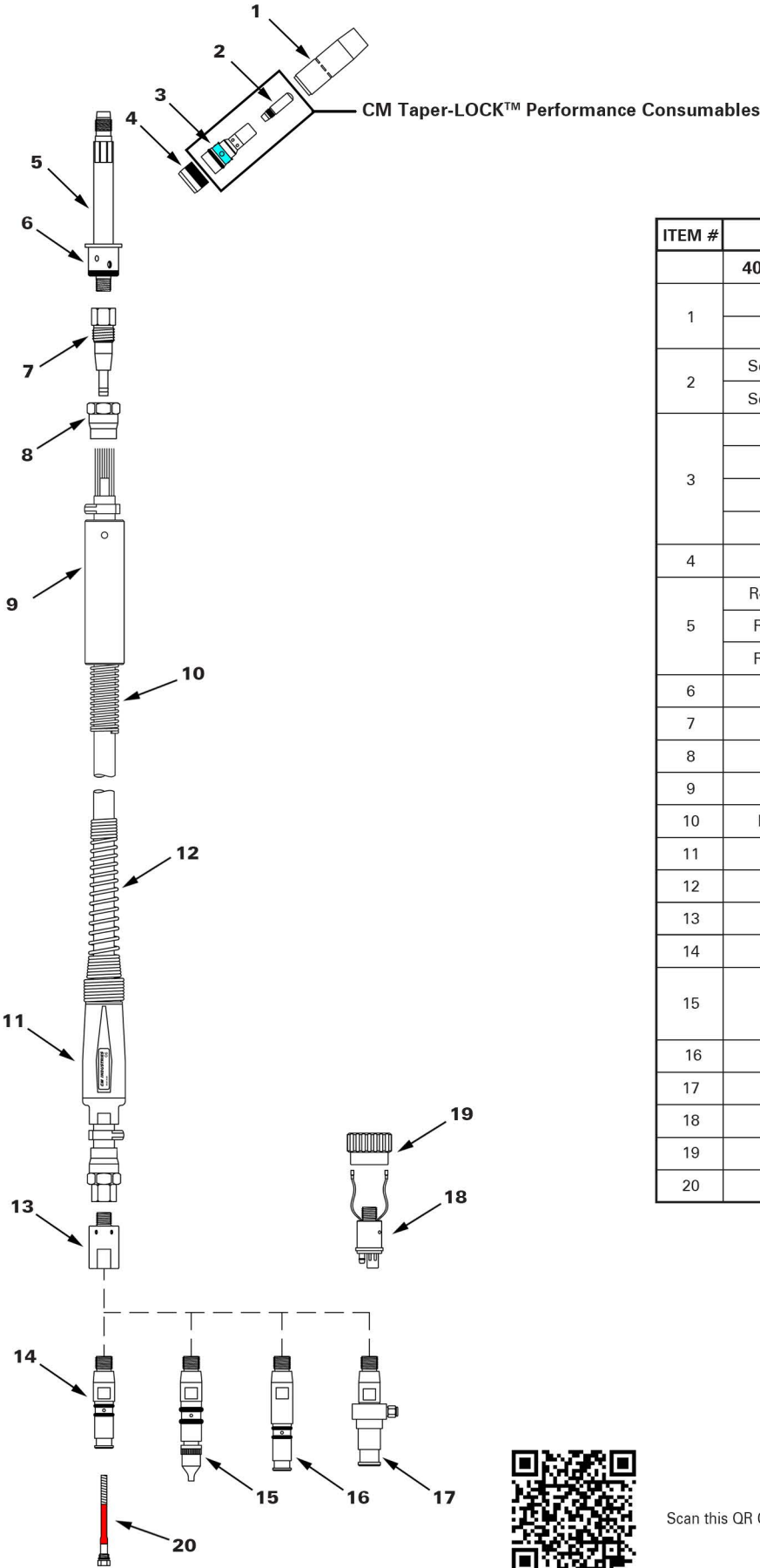
## PARTS LIST

MADE IN USA

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April 2020 v1

# PARTS LIST - Replacement Parts for TRG 400AUTO & 500AUTO



ITEM #	PART #		DESCRIPTION
	400AUTO	500AUTO	
1	R401-6-62		Nozzle, std.
	See <i>Nozzle Selection</i>		Nozzle, Optional Available
2	See <i>Contact Tip Selection</i>		Contact Tip, CMI Taper-LOCK™
	See <i>Contact Tip Selection</i>		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	R405-180	R505-180	Neck, 180° - Standard
	R405-45	R505-45	Neck, 45° - Optional
	R405-60	R505-60	Neck, 60° - Optional
6	R407		Body
7	R408		Connector Cone
8	R409	R509	Cone Nut
9	R410-10		Front Housing
10	R413-2	R513-2	Front Spring Guard
11	B2520066		Strain Relief Kit
12	B2520041-S		Strain Relief Spring
13	R414-400CM		Power Pin Block
14	214		Power Pin, Tweco® #4
15	214-1		Power Pin, Miller®
	214-116		Power Pin Cap, .023"-1/16"
	214-332		Power Pin Cap, 5/64"-3/32"
16	214-25		Power Pin, Lincoln® PM & LF
17	214-7		Power Pin, Lincoln® LN
18	R425-10CM		Euro Connector Plug
19	400-00-001		Euro Connector Nut
20	See <i>Liner Selection</i>		Liner



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# Consumable Selection

## Nozzles (Optional Available)



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



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

## Contact Tips

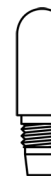
### CM Industries Taper-LOCK™ Contact Tips



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



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



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

### Comparable to Tregaskiss™ Tough Lock™ Contact Tips



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



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



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

## Liners

### Universal Conventional Liners

#### 10' (3.05m) Gun Lengths

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

#### 15' (4.57m) Gun Lengths

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

### Conventional Liners

#### 10' (3.05m) Gun Lengths

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

#### 15' (4.57m) Gun Lengths

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

### Conventional Liners for Aluminum

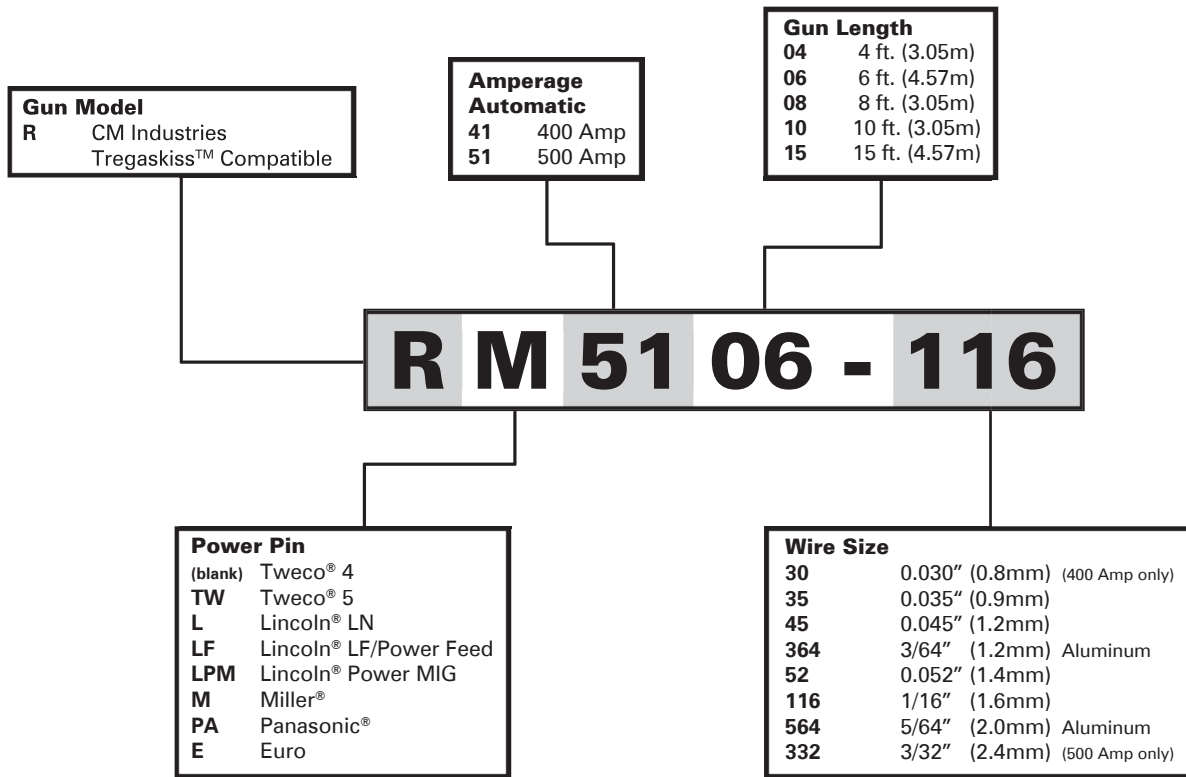
#### 10' (3.05m) Gun Lengths

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


#### 15' (4.57m) Gun Lengths



<b>415-45-03</b>	for 0.035" - 3/64" wire Polymer Liner
<b>415-35-22</b>	for 0.035" - 0.045" wire Steel Wrapped Nylon
<b>415-116-2</b>	for 0.045" - 1/16" wire Steel Wrapped Nylon
<b>415-116-23</b>	for 0.045" - 1/16" wire Polymer Liner

# Ordering Information



## 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)