

Eastwood
Elite

Item #55252

TIG TORCH WATER COOLER INSTRUCTIONS



The **EASTWOOD ELITE TIG TORCH WATER COOLER** has been specifically designed from the ground up to add Water Cooled Torch functionality to Eastwood TIG Welders when combined with the #55253 Eastwood WP18F or #55254 Eastwood WP20F Water Cooled TIG Torches (not included). This exclusive design drops torch temperatures over 100°F and allows for longer welds to be accomplished without over heating the torch, or the users hand. The Stainless Steel Reservoir and Heavy Duty Pump will provide years of trouble free service and performance. Rated for up to 250 Amps, this cooler is compatible with Eastwood Welders: #20565,#20566,#20589 and #54500. It is also compatible with any other TIG welder that has a M16X1.5 TIG Torch connection, and a 10-25 Dinse Stick Connection.

CONTENTS

(1) TIG Torch Water Cooler

SPECIFICATIONS

Power Requirement:	120VAC, 60Hz, 2.1 Amps
Power Cord:	13' [3.95 meter] with built-in GFCI Protection
Construction:	Stainless Steel Reservoir & Lid Assembly with powdercoated exterior
Dimensions:	8.75" Dia. X 11.5" Height [222.2mm x 292mm]
Maximum Coolant Capacity:	190 oz. [5.61 liter]
Temperature Gauge:	0°-200°F
Designed for use with #55253 Eastwood WP18F or #55254 Eastwood WP20F Water Cooled TIG Torches (not included)	

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



⚠️ READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using the TIG Water Cooler.
- Keep these product instructions for future reference.



⚠️ DANGER SHOCK HAZARD! ELECTRIC SHOCK CAN CAUSE INJURY OR DEATH!

- Improper use of an electric welder can cause electric shock, injury, and death! Read all precautions described in the Manual provided with the specific welder to reduce the possibility of electric shock.



⚠️ WARNING FIRE HAZARD! WELDING SPARKS CAN CAUSE FIRE OR EXPLOSION!

- Electric welding produces sparks which can be discharged considerable distances and at high velocity, igniting flammable or exploding vapors and materials.



⚠️ WARNING SHOCK HAZARD!

- Keep the Coolant Reservoir as far from the welder as possible. **DO NOT** allow any water or coolant to splash or spill on or into the welder.



⚠️ WARNING BURN HAZARD! ARC RAYS CAN INJURE EYES AND BURN SKIN!

- Arc rays produce intense ultraviolet radiation which can burn exposed skin and cause eye damage. Use a shield with the proper filter (a minimum of #11) to protect your eyes from sparks and the rays of the arc when welding or when observing open arc welding (see ANSI Z49.1 and Z87.1 for safety standards).



⚠️ WARNING FUMES AND WELDING GASES CAN BE A HEALTH HAZARD!

- Fumes and gasses released during welding are hazardous. Use enough ventilation at the arc to keep fumes and gases from your breathing area or use an OSHA approved respirator when welding where there is inadequate ventilation.



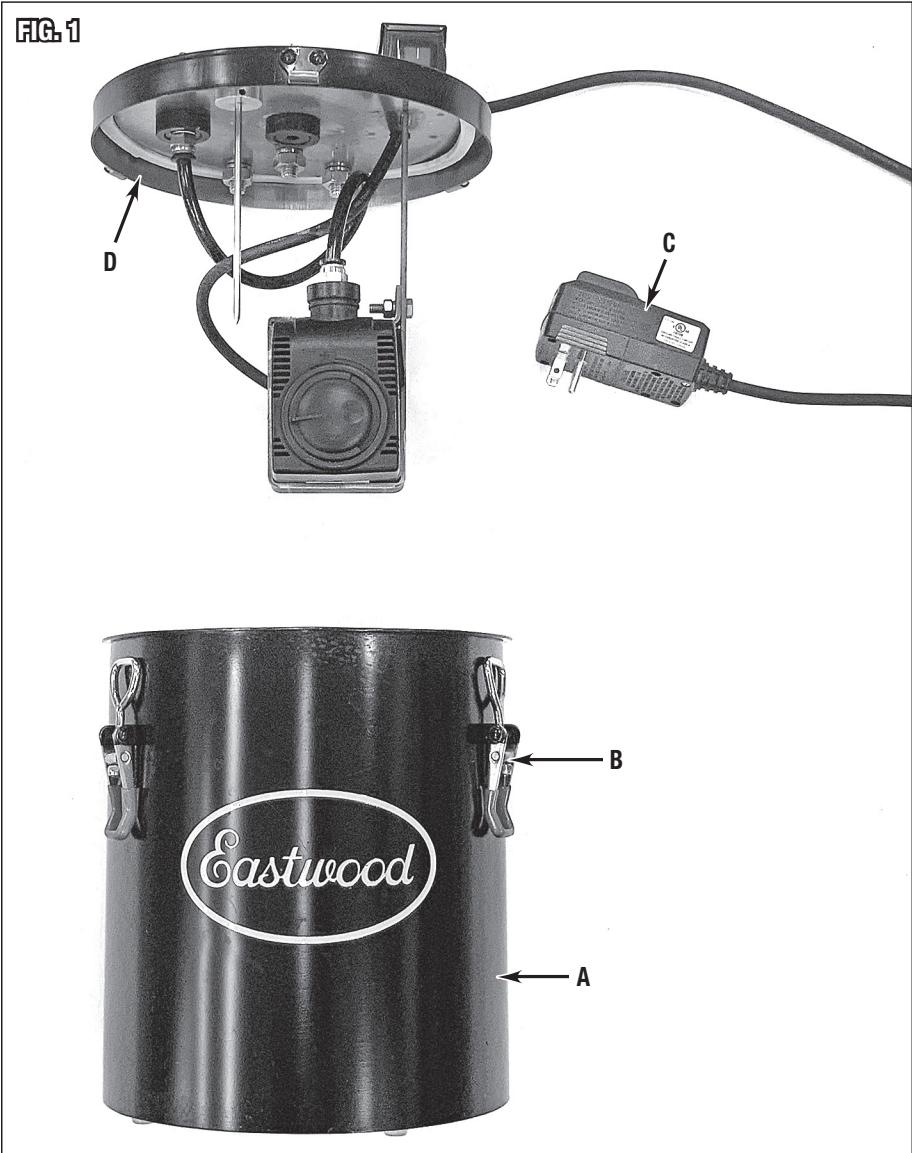
⚠️ CAUTION BURN HAZARD! HOT METAL AND TOOLS WILL BURN

- Use protective, heat resistant gloves and clothing when using Eastwood or any other welding equipment. **DO NOT** touch welded work surface, Torch, TIG Rod or Holder with exposed, unprotected skin until it cools.

INCLUDED FEATURE IDENTIFICATION

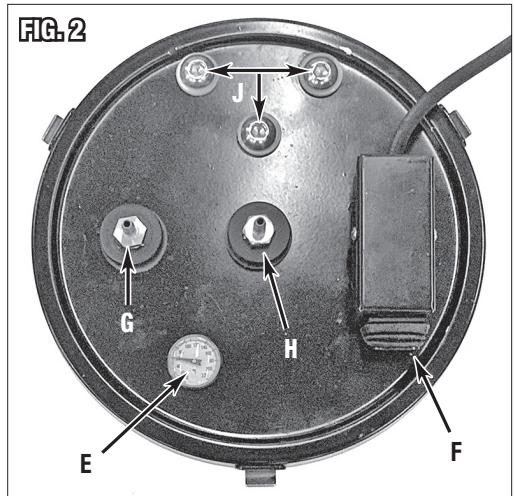
(FIG 1)

- A TIG Water Cooler Reservoir
- B Reservoir Lid Latch Assembly (3)
- C TIG Water Cooler Power Cord and GFI
- D TIG Water Cooler Lid and Fitting Assembly



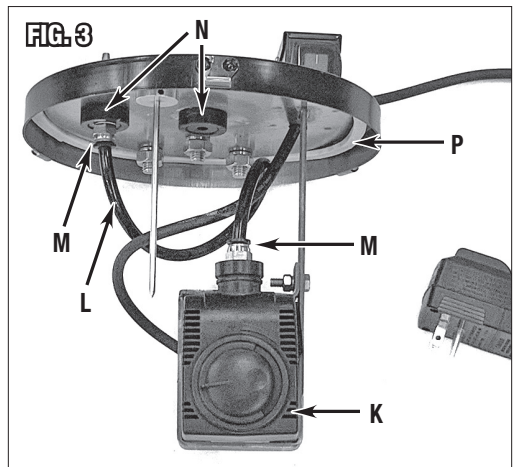
(FIG 2)

- E** 0°- 220° F Temperature Gauge
- F** On/Off Pump Power Switch
- G** Coolant Outlet Fitting
- H** Coolant Inlet Fitting
- J** Mounting Bracket Bolts (3)



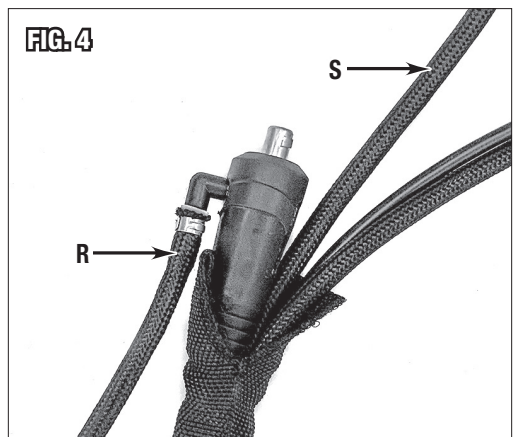
(FIG 3)

- K** 120VAC Torch Coolant Pump
- L** Coolant Pump Hose
- M** Coolant Pump Push-to-Connect Fittings (2)
- N** Coolant Fitting Bushings (2)
- P** Reservoir Lid Seal



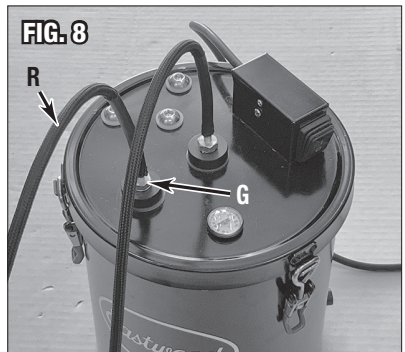
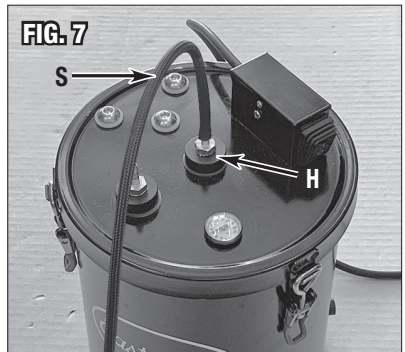
**TIG TORCH HOSE LINE IDENTIFICATION
(shown for connection purposes only,
not included) (FIG 4)**

- R** Torch Coolant Inlet Hose
(Included with Eastwood Water
Cooled TIG Torches, #55252 WP18F
& #55253 WP20F)
- S** Torch Coolant Outlet Hose
(Included with Eastwood Water
Cooled TIG Torches, #55252 WP18F
& #55253 WP20F)



ASSEMBLY

- Install the TIG Water Cooler Reservoir Lid Assembly with all three of the Latch Hooks of the Lid aligned with the Latches of the Reservoir (**FIG 5**).
- Place the hoops of the Latches over the Hooks of the Lid and flip the Latches fully downward against the sides of the Reservoir, locking the Lid securely in place (**FIG 6**).
- Push the Torch Coolant Outlet Hose [**S**] down and completely over the TIG Water Cooler Coolant Inlet Fitting [**H**] of the Lid (**FIG 7**).
- Push the Torch Coolant Inlet Hose [**R**] down and completely over the TIG Water Cooler Coolant Outlet Fitting [**G**] of the Lid (**FIG 8**).



SET-UP

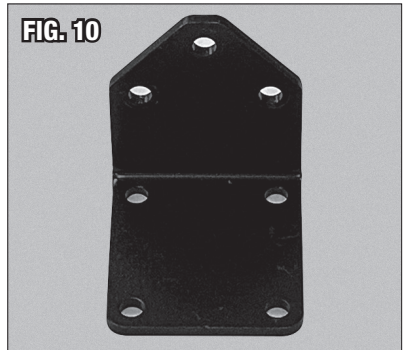
The Eastwood Elite TIG Torch Water Cooler can be mounted in one of three ways:

- Benchtop (**FIG 9**) - (used as assembled).
- Wall Mount (**FIG 10**) - NOT INCLUDED (Requires an optional Eastwood #55255 Wall Mount Bracket).
- Gas Bottle Mount (**FIG 11**) - NOT INCLUDED (Requires an optional Eastwood #55255 Gas Bottle Mount Bracket, Fig 2).

BENCH TOP MOUNTING

Place the Eastwood Elite TIG Water Cooler on a stable, secure, horizontal, and level work surface such as a workbench or other dedicated firm work surface (**FIG 9**).

⚠ WARNING SHOCK HAZARD!
Locate and keep the Reservoir as far from the Welder as feasible.
DO NOT allow any water or coolant to splash or spill on or into the Welder.



WALL MOUNTING WITH AN OPTIONAL EASTWOOD #55255 WALL MOUNT BRACKET

Select a wall or other vertical location that provides a stable and secure mounting for the Reservoir, keeping it level at all times.

⚠ WARNING SHOCK HAZARD!

Keep the Reservoir as far from the Welder as feasible. DO NOT allow any water or coolant to splash or spill on or into the Welder.

Check for possible interference with electrical lines, other utilities or unseen obstructions before drilling or driving screws into a surface for mounting.

- Unlatch and remove the TIG Water Cooler Reservoir Lid Assembly.
- Loosen and remove the three sets of Screws, Nylon Flat Washers, Lock Washers and Nuts from the Lid Assembly and set them aside (FIG 12).
- Install the three Screws through the top face of the optional Eastwood #55255 Wall Mount Bracket, (FIG 13).
- Add the Nylon Flat Washers and place the Bracket on top of the Lid with the Screws through the holes, add the Lock Washers and Nuts and tighten (FIG 14).
- With a Wall Mount Bracket assembled to the Lid and the Lid replaced on the Reservoir it will appear as in FIG 15.
- For best performance and safety, the Reservoir must be mounted in a level position on a wall, cabinet, tool chest, workbench etc, capable of holding 20lbs. [9kg.] plus pulling stresses from usage. Attachment to a structural member is highly recommended.

FIG. 12



FIG. 13

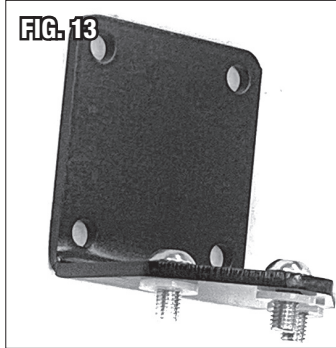


FIG. 14

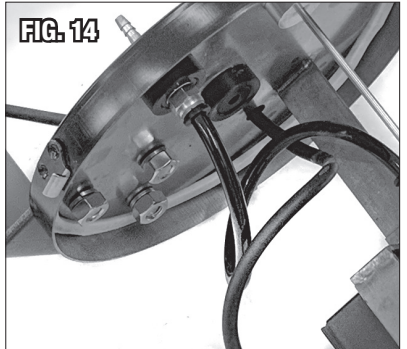


FIG. 15



GAS BOTTLE MOUNTING WITH AN OPTIONAL EASTWOOD #55256 GAS BOTTLE MOUNT BRACKET

The Gas Bottle selected for mounting must be anchored securely before mounting the Reservoir, allowing it to remain level at all times (FIG 11).

⚠ WARNING SHOCK HAZARD!
Keep the Reservoir as far from the welder as feasible. DO NOT allow any water or coolant to splash or spill on or into the welder.

- Unlatch and remove the TIG Water Cooler Reservoir Lid Assembly.
- Loosen and remove the three sets of Screws, Nylon Flat Washers, Lock Washers and Nuts from the Lid Assembly and set them aside (FIG 12).
- Install the three Screws through the top face of the optional Eastwood #55256 Gas Bottle Mount Bracket, (FIG 16).
- Add the Nylon Flat Washers and place the Bracket on top of the Lid with the Screws through the holes, add the Lock Washers and Nuts and tighten (FIG 17).
- With a Gas Bottle Bracket assembled to the Lid it will appear as in FIG 18.
- For best performance and safety, the Reservoir must be maintained in a level position on a properly secured gas bottle (FIG 11).

FIG. 16



FIG. 17

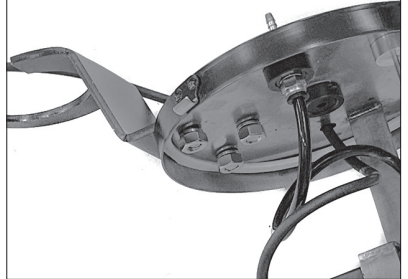


FIG. 18



ADDING COOLANT MIXTURE

The Eastwood Elite TIG Water Cooler is specifically designed to operate at peak effectiveness with a mixture of deionized water and #55263 Eastwood TIG Torch Water Cooler Coolant Additive which also eliminates bacteria growth and freezing. It can be pre-mixed with water or by fluid level measurement in the Reservoir.

If deionized water is unavailable and tap water must be used, it becomes a necessity to use #55263 Eastwood TIG Torch Water Cooler Coolant Additive to help avoid bacteria buildup, corrosion and clogging.

If extended welding sessions require frequent coolant replenishment and replacement, the TIG Water Cooler Additive may be omitted however, the TIG Water Cooler system **MUST** be drained and dried out after each use.

Ice may be added to the Reservoir to lower the Coolant temperature however, the TIG Water Cooler system **MUST** be drained and dried out after use.

▲ NOTICE

DO NOT store the TIG Water Cooler without #55263 Additive or corrosion, contamination, fungus and bacteria growth will occur preventing proper function of the TIG Water Cooler system.

PRE-MIX COOLANT METHOD

- 150 oz. (1 Gallon & 22 oz.) [4.4 liters] of cool, deionized water.
- 15 oz. [0.44 liter] of # 55263 Eastwood TIG Torch Water Cooler Coolant Additive.

MEASURING COOLANT, LEVEL METHOD

- Using a ruler, measure up from the floor of the Reservoir, up along the inside wall and place a mark or scribe line at 5-3/4" [146mm] (**FIG 19**). This is the Water Fill Line and will be equal to 150 oz. (1 Gallon & 22 oz.) [4.4 liters] (**FIG 20**).
- Place another line at 6-1/4" [159mm] (**FIG 21**). This additional 1/2" [12.7mm] is the Eastwood TIG Torch Water Cooler Coolant Additive amount and will be equal to an additional 15 oz. [0.44 liter] (**FIG 21**).
- The Reservoir is now full. This will be equal to 165 oz. (1 Gallon & 27 oz.) [4.88 liters] and the level will be at the 2nd marked line (**FIG 22**).



OPERATION

- Verify that the TIG Water Cooler Reservoir is filled to the correct level as described in the ADDING COOLANT MIXTURE section of these Instructions.
- Check that all Torch and Reservoir hose connections are secure and that the Lid is properly latched.
- Plug the GFCI into a 120VAC, 60Hz, 15 Amp, breaker protected circuit (**FIG 23**).
- Press the TEST button on the GFCI to verify that it “trips” and operates properly. Press RESET to begin using the TIG Water Cooler Unit (**FIG 24**).
- Turn unit on by setting the Power Switch to the “0” position. The pump motor will be heard running (**FIG 25**).
- Check for leaks at the hose connections and for any kinks in the coolant hoses.
- Begin welding as normal, periodically checking the Coolant Temperature Gauge (**FIG 26**).
- When the Coolant temperature reaches 125°F, stop welding, turn off Power Switch, unplug GFCI and allow Coolant to cool off or replace Coolant.

⚠ CAUTION

DO NOT allow Coolant temperature to exceed 125°F or permanent damage to the torch and pump can occur and dangerously high temperatures could cause scalding burns.

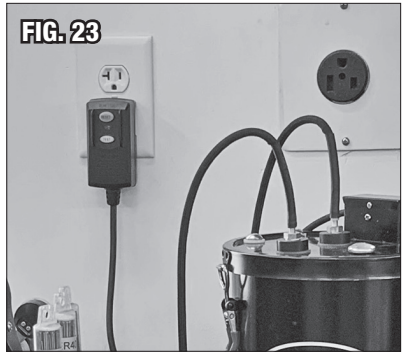


FIG. 24



FIG. 25

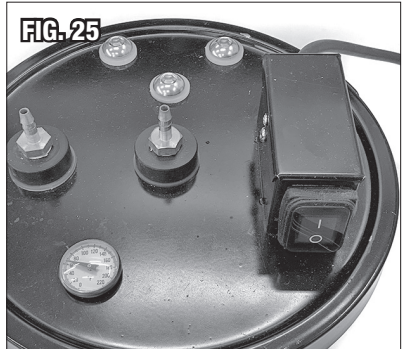
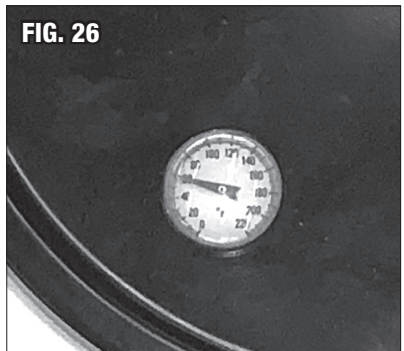


FIG. 26



CHANGING COOLANT

- With the unit turned off and unplugged, unlatch the Lid and pour spent Coolant into a household drain.
- Refill according to the ADDING COOLANT MIXTURE section of these Instructions.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Pump does not run when switch is turned on	No power to the Eastwood Elite TIG Torch Water Cooler	Check the local 120 VAC power connection.
		Check for tripped circuit breaker. Reset if necessary.
		Check for tripped GFCI on Plug of Power Cord. Press TEST Button then Press RESET Button.
Torch becomes hot during use	GFCI has tripped, Pump not running	Check for tripped GFCI on Plug of Power Cord. Press TEST Button then Press RESET Button.
		Check for tripped circuit breaker. Reset if necessary.
	Hose has become pinched or kinked, coolant not flowing	Check for pinched or kinked hose & correct issue.
	Coolant temperature has exceeded 125°F	Stop welding and allow coolant to cool or replace coolant according to the ADDING COOLANT MIXTURE section of these Instructions.
		Ice may be added to the Reservoir to allow welding to continue however the coolant mixture ratio will be compromised and should be replaced after completion.
Coolant leak at Hose fittings	Hose not fully installed on Brass Fitting	Push Hose fully over all barbs of brass fitting.
	Hose stretched where it fits over Brass Fitting	Cut 1" [25mm] from end of hose to remove bell then re-install Hose over Fitting.
Foul odor and debris in Coolant	Bacteria and or fungus has grown in the coolant	Unplug and drain coolant. Refill according to the ADDING COOLANT MIXTURE section of these Instructions.

ADDITIONAL ITEMS

- #55253 Eastwood Water Cooled, WP18F Torch Assembly
- #55254 Eastwood Water Cooled, WP20F Torch Assembly
- #55255 Eastwood Elite TIG Torch Water Cooler Wall Bracket
- #55256 Eastwood Elite TIG Torch Water Cooler Gas Bottle Bracket
- #55263 Eastwood TIG Torch Water Cooler Coolant Additive, 15 oz. [0.44 liter] Bottle
- #33996 Eastwood TIG Mate Filler Rod Feeder
- #12590 Welding Gloves Large
- #12589 Welding Gloves Medium
- #20189 Eastwood Extra-Large-View Auto Darkening Welding Helmet
- #12099 Eastwood Auto Darkening Welding Helmet
- #19079S Eastwood Stainless Steel Brush
- #51139 Eastwood Copper 3 x 3 Welders Helper Set
- #50739 Master Welder's Helper Panel Holding Kit
- #19015 Welders Pliers
- #12762 Eastwood L, XL, XXL Welding Jacket
- #11616 Eastwood TIG Welding Cart

REPLACEMENT COMPONENTS

- #55257 Eastwood TIG Torch Water Cooler Replacement Pump Assembly
- #55258 Eastwood TIG Torch Water Cooler Replacement Power Switch Assembly
- #55259 Eastwood TIG Torch Water Cooler Replacement Temperature Gauge Assembly
- #55260 Eastwood TIG Torch Water Cooler Replacement Pump Outlet Fitting Assembly
- #55261 Eastwood TIG Torch Water Cooler Replacement Return Fitting Assembly
- #55262 Eastwood TIG Torch Water Cooler Replacement GFCI Plug with 13' [3.95m] Cord

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

PDF version of this manual is available at eastwood.com

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