

WELD *The TIG Welder's Choice* **CRAFT**®

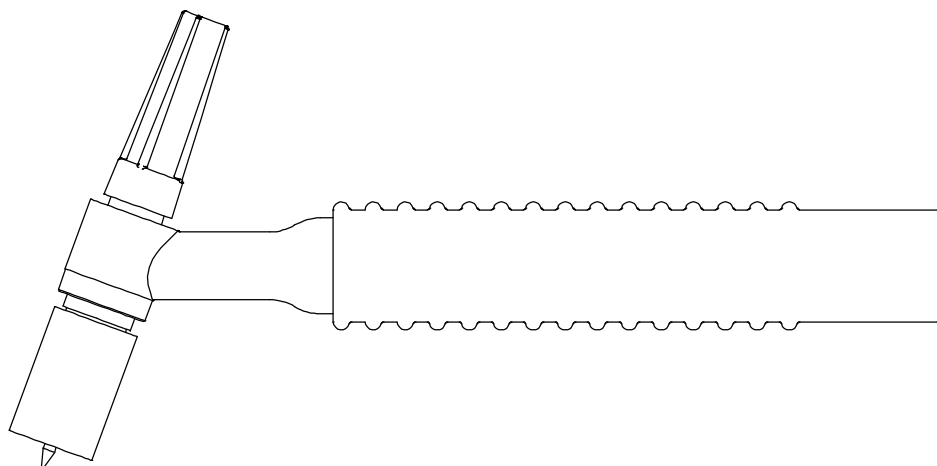
WP-9
WP-9V
WP-9P
WP-9FV
WP-9F



*Hand-Held Air-Cooled TIG
(GTAW) Torches*

*Torches manuelles TIG refroidies
par eau*

*Antorchas manuales enfriadas
por agua para TIG (GTAW)*



Owner's Manual
Manual del Operador
Manuel de L'utilisateur



Weldcraft.com

File: TIG (GTAW)



TABLE OF CONTENTS

SECTION 1 – SAFETY PRECAUTIONS FOR GTAW TORCHES – READ BEFORE USING	1
1-1. Symbol Usage	1
1-2. Arc Welding Hazards	1
1-3. Proposition 65 Warnings	2
1-4. EMF Information	2
SECTION 2 – SPECIFICATIONS	3
2-1. Specifications	3
2-2. Duty Cycle	3
SECTION 3 – INSTALLATION	4
3-1. Required Torch Parts And Torch Assembly	4
3-2. International Style Connector Assembly	4
3-3. Connecting Torch	5
SECTION 4 – MAINTENANCE & TROUBLESHOOTING	7
4-1. Routine Maintenance	7
4-2. Troubleshooting	7
SECTION 5 – SELECTING AND PREPARING A TUNGSTEN FOR DC OR AC WELDING	9
5-1. Selecting Tungsten Electrode (Wear Clean Gloves To Prevent Contamination Of Tungsten)	9
5-2. Preparing Tungsten Electrode For Welding With Phase Control Machines	9
SECTION 6 – GUIDELINES FOR TIG WELDING (GTAW)	10
6-1. Positioning The Torch	10
6-2. Torch Movement During Welding	11
6-3. Positioning Torch Tungsten For Various Weld Joints	11
SECTION 7 – PARTS LIST	12

SECTION 1 –SAFETY PRECAUTIONS FOR GTAW TORCHES – READ BEFORE USING

WC000038 – 2010–05

 **Protect yourself and others from injury — read and follow these precautions.**

1-1. Symbol Usage



DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

NOTICE – Indicates statements not related to personal injury.

 Indicates special instructions.



This group of symbols means Warning! Watch Out! ELECTRIC SHOCK, MOVING PARTS, and HOT PARTS hazards. Consult symbols and related instructions below for necessary actions to avoid the hazards.

1-2. Arc Welding Hazards



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 unit.



During operation, keep everybody, especially children, away.



ELECTRIC SHOCK can kill.

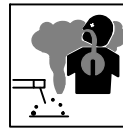
- Always wear dry insulating gloves.
- Insulate yourself from work and ground.
- Do not touch live electrode or electrical parts.
- Before welding, verify torch head is firmly attached to the torch body.
- Do not wrap torch hoses and power cable together with tape or plastic wire ties. Wrapping restricts water flow which may cause power cable to overheat and torch hose to burst.
- Repair or replace worn, damaged, or cracked torch or cable insulation.
- Turn off welding power source before changing tungsten electrode or torch parts.
- Keep all covers and handle securely in place.



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 protective clothing made from durable, flame-resistant material (leather, heavy cotton, or wool) and foot protection.



FUMES AND GASES can be hazardous.

- Keep your head out of the fumes.
- Ventilate area, or use breathing device.
- Read Material Safety Data Sheets (MSDSs) and manufacturer's instructions for material used.



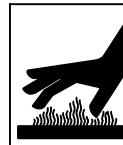
BUILDUP OF GAS can injure or kill.

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



WELDING can cause fire or explosion.

- Do not weld near flammable material.
- Do not weld on closed containers.
- Watch for fire; keep extinguisher nearby.



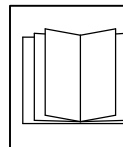
HOT PARTS can burn.

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



NOISE 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.



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 maintenance and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

1-3. Proposition 65 Warnings

 Welding or cutting equipment produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. (California Health & Safety Code Section 25249.5 et seq.)

 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.*

 This product contains or produces a chemical known to the State of California to cause cancer or birth defects (or other reproductive harm). (California Health & Safety Code Section 25249.5 et seq.)

1-4. EMF Information

Electric current flowing through any conductor causes localized electric and magnetic fields (EMF). Welding current creates an EMF field around the welding circuit and welding equipment. EMF fields may interfere with some medical implants, e.g. pacemakers. Protective measures for persons wearing medical implants have to be taken. For example, access restrictions for passers-by or individual risk assessment for welders. All welders should use the following procedures in order to minimize exposure to EMF fields from the welding circuit:

1. Keep cables close together by twisting or taping them, or using a cable cover.
2. Do not place your body between welding cables. Arrange cables to one side and away from the operator.
3. Do not coil or drape cables around your body.

4. Keep head and trunk as far away from the equipment in the welding circuit as possible.
5. Connect work clamp to workpiece as close to the weld as possible.
6. Do not work next to, sit or lean on the welding power source.
7. Do not weld whilst carrying the welding power source or wire feeder.

About Implanted Medical Devices:

Implanted Medical Device wearers should consult their doctor and the device manufacturer before performing or going near arc welding, spot welding, gouging, plasma arc cutting, or induction heating operations. If cleared by your doctor, then following the above procedures is recommended.

SECTION 2 – SPECIFICATIONS

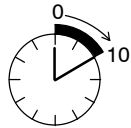
2-1. Specifications

Model			
	WP-9	WP-9V	WP-9P
Amperage Rating	125 Amps W/Argon Gas At 60% Duty Cycle DCEN; 100 Amps W/Argon Gas At 60% duty Cycle ACHF		
Cooling Method	Air		
Tungsten Size	.020 Thru 3/32 in. (0.5 Thru 2.4 mm)		
Cable Options	12-1/2 ft (3.8 m) or 25 ft (7.6 m) One-Piece Rubber 12-1/2 ft (3.8 m) or 25 ft (7.6 m) Two-Piece Rubber		
Dimensions	Length: 7 in. (178 mm); Handle Diameter: 7/8 in. (22 mm) Weight: 4.2 oz (119 g)	Length: 7.5 in. (191 mm); Handle Diameter: 7/8 in. (22 mm) Weight: 5.1 oz (145 g)	Length: 6.25 in. (159 mm); Handle Diameter: 7/8 in. (22 mm) Weight: 3.3 oz (94 g)

Model		
	WP-9F	WP-9FV
Amperage Rating	125 Amps W/Argon Gas At 60% Duty Cycle DCEN; 100 Amps W/Argon Gas At 60% duty Cycle ACHF	
Cooling Method	Air	
Tungsten Size	.020 Thru 3/32 in. (0.5 Thru 2.4 mm)	
Cable Options	12-1/2 ft (3.8 m) or 25 ft (7.6 m) One-Piece Rubber 12-1/2 ft (3.8 m) or 25 ft (7.6 m) Two-Piece Rubber	
Dimensions	Length: 8.5 in. (216 mm); Handle Diameter: 7/8 in. (22 mm) Weight: 6.5 oz (184 g)	Length: 9 in. (229 mm); Handle Diameter: 7/8 in. (22 mm) Weight: 7.6 oz (216 g)

2-2. Duty Cycle



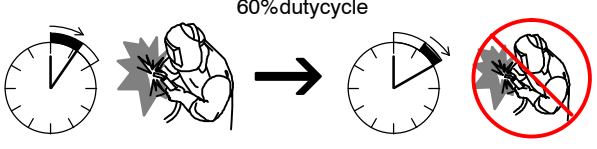
Minutes

Definition

Duty Cycle is percentage of 10 minutes that torch can weld at rated load without overheating.

60% Duty Cycle At 125 Amperes Using Argon Gas w/DCEN

60% duty cycle



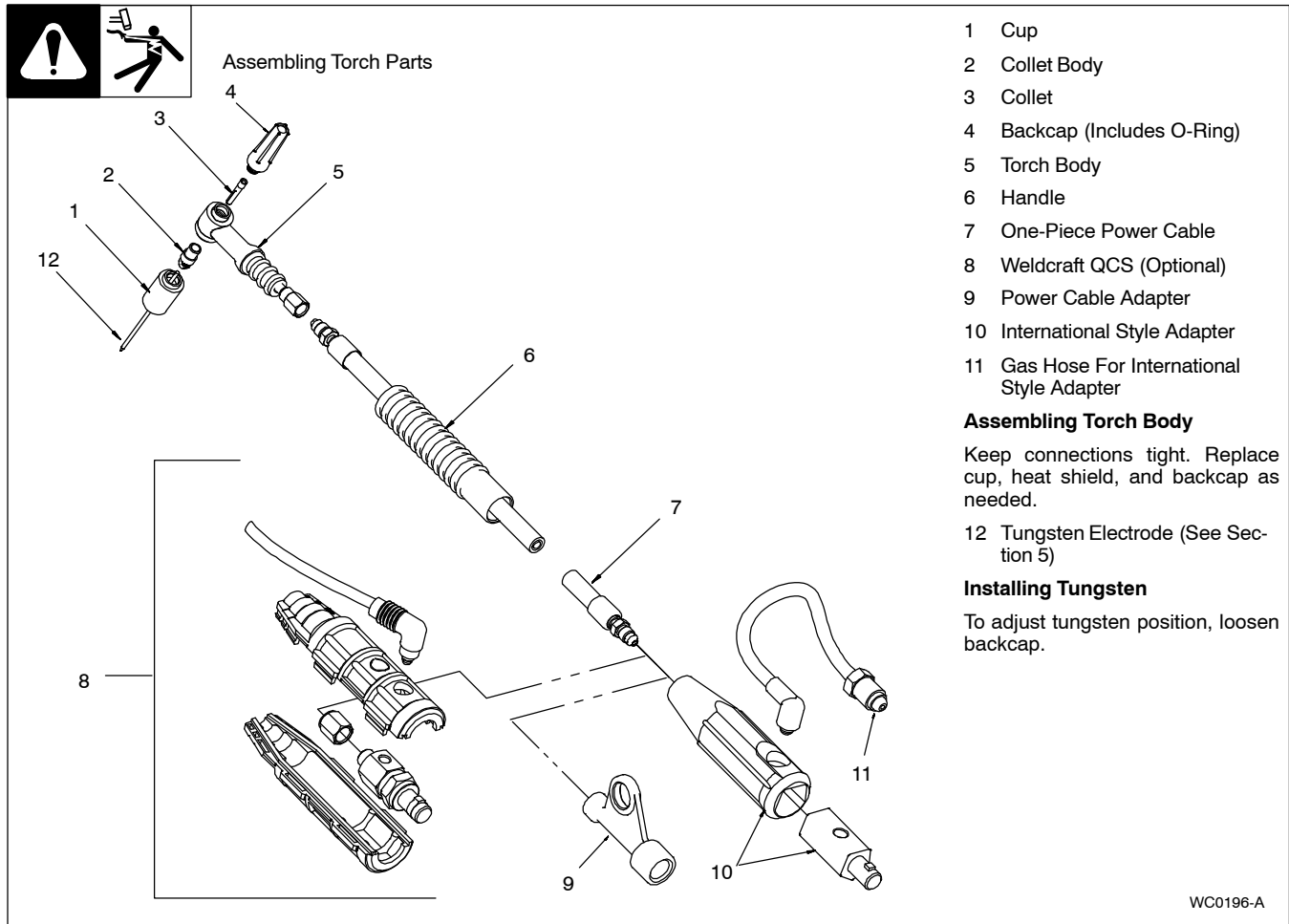
6 Minutes Welding 4 Minutes Resting

NOTICE – Exceeding rated amperage can damage torch and void warranty (see Section 2-1).

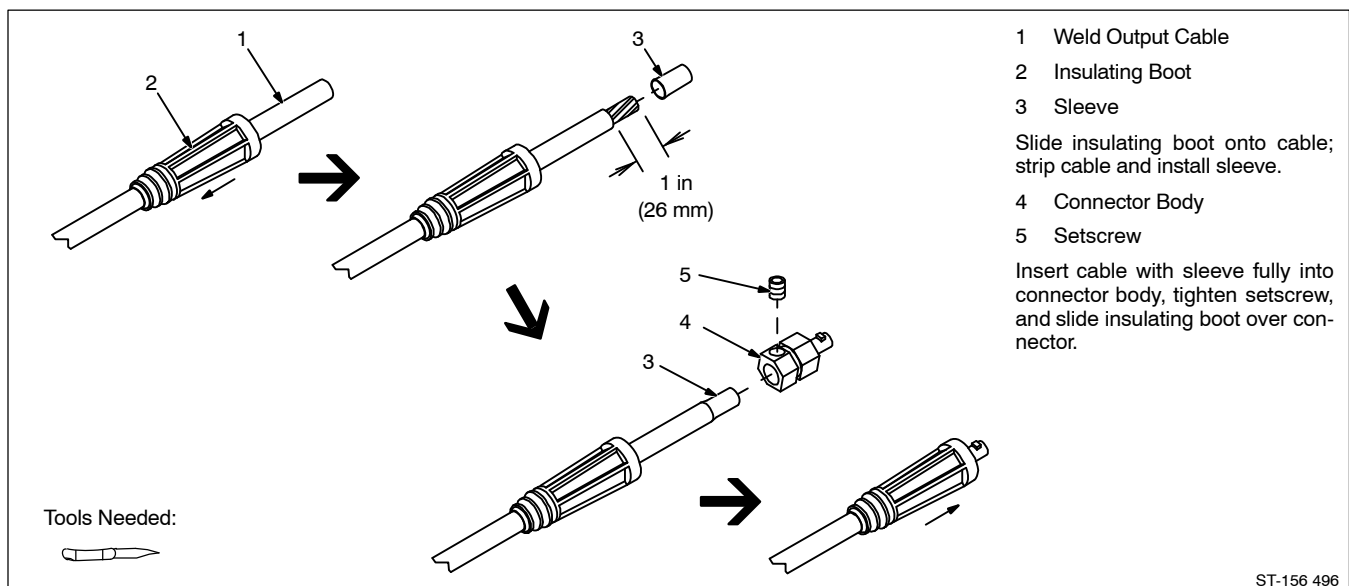
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SECTION 3 – INSTALLATION

3-1. Required Torch Parts And Torch Assembly



3-2. International Style Connector Assembly



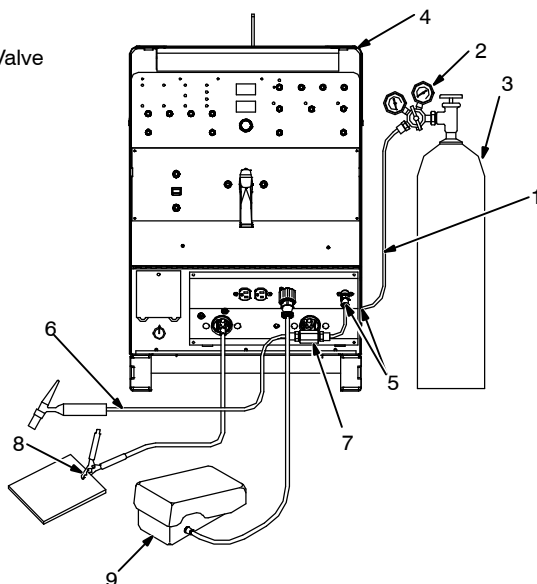
3-3. Connecting Torch

A. Connecting Torch With One-Piece Cable

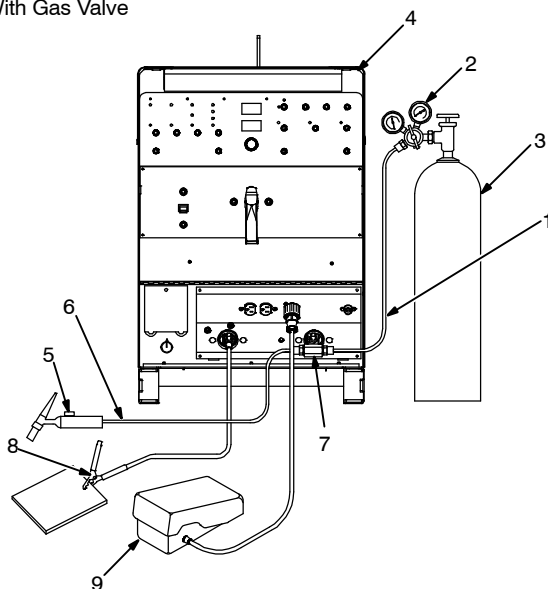


If applicable, install high-frequency unit.

Torch Without Gas Valve



Torch With Gas Valve



⚠ Turn Off welding power source power before installing torch.

Obtain the following hose:

- 1 Gas Hose With 5/8-18 Right-Hand Fittings

Connections:

- 2 Regulator/Flowmeter
- 3 Gas Cylinder
- 4 Welding Power Source
- 5 Gas Valve

Operating Torch Gas Valve:

Valve controls gas preflow and post-flow. Open valve on torch just before welding.

Preflow is used to purge the immediate weld area of atmosphere.

Postflow is required to cool tungsten and weld, and to prevent contamination of tungsten and weld. After welding, leave valve open about 1 second for every 10 amperes of weld current. Close valve on torch when postflow is finished.

- 6 One-Piece Torch Cable
- 7 Power Cable Adapter

Connect gas hose and power cable to adapter before connecting adapter to weld output terminal.

- 8 Work Clamp

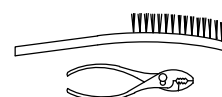
Connect work clamp to clean, paint-free location on workpiece, close to weld.

Use wire brush to clean weld joint area.

- 9 Foot Control

803 313

Tools Needed:



5/8, 7/8 in.

B. Connecting Torch With Two-Piece Cable















⚠ Turn Off welding power source power before installing torch.

Obtain the following hose:

- 1 Gas Hose With 5/8-18 Right-Hand Fittings

Connections:

- 2 Regulator/Flowmeter
- 3 Gas Cylinder
- 4 Welding Power Source
- 5 Torch Gas-In Hose
- 6 Torch Power Cable
- 7 Work Clamp

Connect work clamp to a clean, paint-free location on workpiece, close to weld area.

Use wire brush to clean weld joint area.

- 8 Foot Control
- 9 Gas Valve

Valve controls gas preflow and post-flow. Open valve on torch just before welding.

Preflow is used to purge the immediate weld area of atmosphere.

Postflow is required to cool tungsten and weld, and to prevent contamination of tungsten and weld. After welding, leave valve open about 1 second for every 10 amperes of weld current. Close valve on torch when postflow is finished.

Torch Without Gas Valve

If applicable, install high-frequency unit.

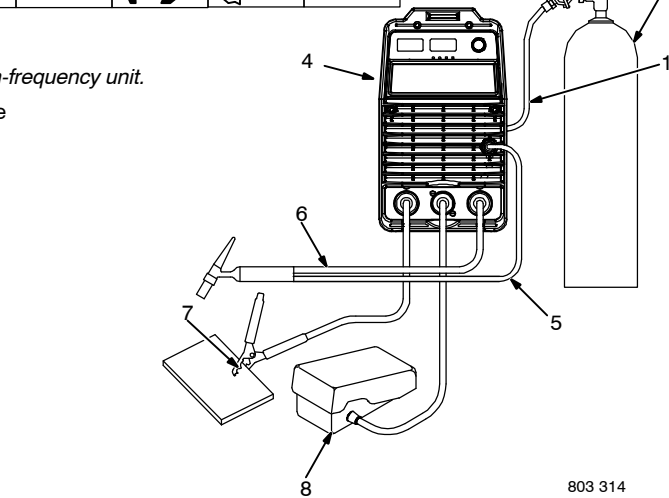
Torch With Gas Valve

Tools Needed:





5/8, 7/8 in.



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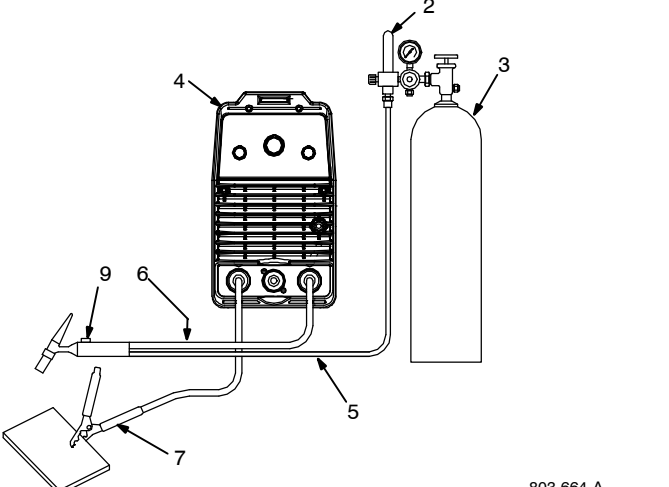
Torch With Gas Valve

Tools Needed:





5/8, 7/8 in.



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C. Connecting Torch With Flow-Through Type Connection















⚠ Turn Off welding power source power before installing torch.

Obtain the following hose:

- 1 Gas Hose With 5/8-18 Right-Hand Fittings

Connections:

- 2 Regulator/Flowmeter
- 3 Gas Cylinder
- 4 Welding Power Source
- 5 Gas Valve
- 6 One-Piece Torch Cable
- 7 Work Clamp

Located on back of machine.

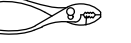
Connect work clamp to clean, paint-free location on workpiece, close to weld area.

Use wire brush to clean metal at weld joint area.

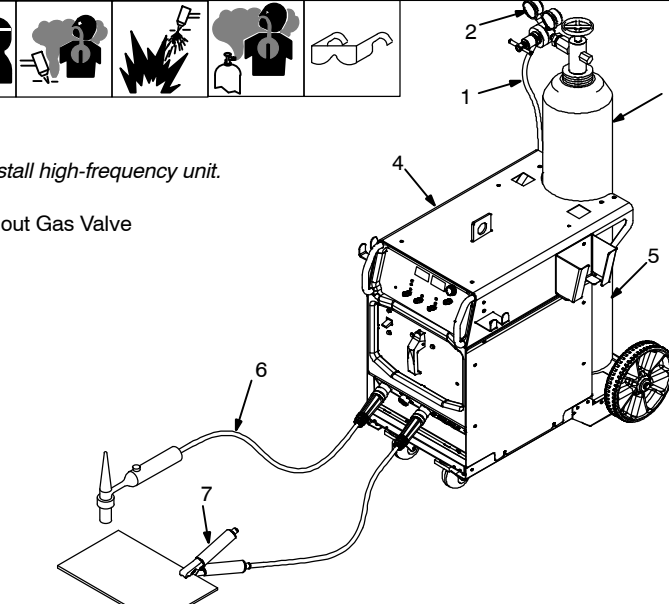
If applicable, install high-frequency unit.

Torch Without Gas Valve

Tools Needed:

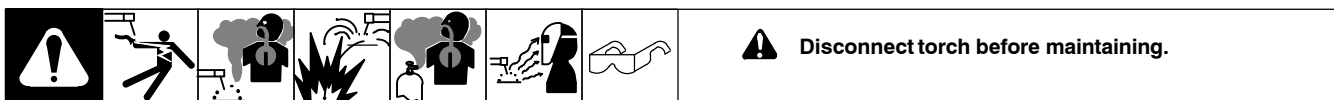



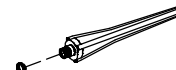
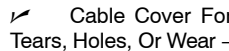

5/8, 7/8 in.



804 330-A

4-1. Routine Maintenance



		✓ = Check ◇ = Change ● = Clean ☆ = Replace * To be done by Factory Authorized Service Agent		
Daily	 ✓ Nozzle For Cracks – ☆ If Necessary	 ✓ Check Tungsten Preparation (See Section 5)		
Weekly	 ✓ Collet For Wear – ☆ If Necessary	 ✓ Collet Body Threads – ☆ If Necessary	 ✓ Gas Lens Screen – ☆ If Necessary	 ✓ Gas Valve, If Applicable – ☆ If Necessary
Monthly	 ✓ Power Cable For Cracks, Wear – ☆ If Necessary	 ✓ Gas Hose For Cracks, Leaks, Wear – ☆ If Necessary	 * ✓ Water Hose, If Applicable, For Cracks, Leaks, Wear – ☆ If Necessary	 ✓ Back Cap O-Ring – ☆ If Necessary
	 ✓ Power, Gas, And Water Cable Connections To En- sure They Are Tight	 ✓ Cable Cover For Tears, Holes, Or Wear – ☆ If Necessary		
* When using a water-cooled torch, maintain cooling equipment according to the manufactures recommendations.				

4-2. Troubleshooting

 Before using troubleshooting table, check selection and preparation of tungsten electrode according to Section 5.

Trouble	Remedy
Arc will not start. High frequency present and visible at the torch.	Check cable and work connections. Be sure weld circuit is complete (see Section 3-3).
	Check and be sure shielding gas is present.
Lack of high frequency; difficulty in establishing arc.	Select proper size and type tungsten. Properly prepare tungsten according to Section 5.
	Check cables and torch for cracks or bad connections. Be sure that torch cables are not close to any grounded metal. Repair or replace necessary parts.
	Check torch consumables. Be sure collet and collet body are correctly installed and tightened (see Section 3-1).
	Check welding power source High Frequency control, and if necessary, check and adjust spark gaps.
Torch gas valve not working properly (if applicable).	Have Factory Authorized Service Station/Service Distributor check valve.
No shielding gas flow from torch.	Be sure valves on gas supply are open.
	Check cable for kinks or blockage.
	Check and tighten all gas supply fittings.
	Check cables and torch for cracked insulation or bad connections. Repair or replace (see Section 4-1).

Trouble	Remedy
Tungsten electrode oxidizing and not remaining bright after conclusion of weld.	Shield weld zone from drafts.
	Increase postflow time.
	Increase gas flow rate. Check manufacture's recommendations.
	Check and tighten all gas fittings.
	Check gas valve and flow meter/regulator.
Excessive tungsten electrode consumption.	Select proper size and type tungsten. Properly prepare tungsten (see Section 5).
	Select proper size and type tungsten. Properly prepare tungsten according to Section 5.
	Check polarity setting on welding power source (see welding power source Owner's manual).
	Check for proper gas flow rate. Check manufacture's recommendations.
Wandering arc	If torch is water cooled, check torch and cables for water leaks. Repair or replace if necessary (see Section 4-1).
	Shield weld zone from drafts.
	Reduce gas flow rate.
	Select proper size and type tungsten. Properly prepare tungsten according to Section 5.
Yellow powder or smoke on cup.	When using AC, check welding power source High Frequency control setting, and increase setting if necessary.
	Use proper type shielding gas.
	Check for proper gas flow rate. Check manufacture's recommendations.
	Increase postflow time.
Erratic arc	Check torch cup size. Match cup size to joint being welded.
	When using DC, check polarity, and/or polarity of welding cables.
	When using AC, check welding power source High Frequency control setting, and be sure it is operating continuously.
	Select proper size and type tungsten. Properly prepare tungsten according to Section 5.
	Use proper arc length. Arc length may be too long or too short.
	Make sure base material is clean and free of contaminates.
Porosity in weld.	When using AC, slow travel speed can cause erratic arc. Adjust travel speed.
	Check for proper gas flow rate. Check manufacture's recommendations.
	Check and tighten gas fittings.
	Make sure base material and filler material is clean and free of contaminates.
	Check for impurities and moisture in gas lines. Purge if necessary.
	If torch is water cooled, check torch and cables for water leaks. Repair or replace if necessary (see Section 4-1).

SECTION 5 – SELECTING AND PREPARING A TUNGSTEN FOR DC OR AC WELDING

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Whenever possible and practical, use DC weld output instead of AC weld output.

5-1. Selecting Tungsten Electrode (Wear Clean Gloves To Prevent Contamination Of Tungsten)

Not all tungsten electrode manufacturers use the same colors to identify tungsten type. Contact the tungsten electrode manufacturer or reference the product packaging to identify the tungsten you are using.

Electrode Diameter	Amperage Range - Gas Type♦ - Polarity	
	(DCEN) – Argon Direct Current Electrode Negative (For Use With Mild Or Stainless Steel)	AC – Argon Balance Control @ 65% Electrode Negative (For Use With Aluminum)
2% Ceria, 1.5% Lanthanum, Or 2% Thorium Alloy Tungstens		
.040" (1 mm)	25-85	20-80
1/16" (1.6 mm)	50-160	50-150
3/32" (2.4 mm)	130-250	135-235
1/8" (3.2 mm)	250-400	225-360
Pure Tungsten		
.040" (1 mm)	Pure Tungsten Not Recommended For DCEN – Argon	10-60
1/16" (1.6 mm)		50-100
3/32" (2.4 mm)		100-160
1/8" (3.2 mm)		150-210

♦Typical argon shielding gas flow rates are 11 to 35 cfh (cubic feet per hour).

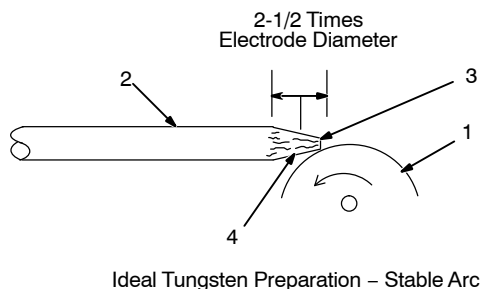
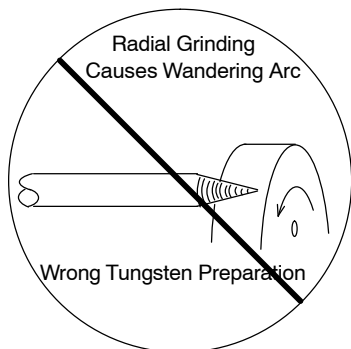
Figures listed are a guide and are a composite of recommendations from American Welding Society (AWS) and electrode manufacturers.

5-2. Preparing Tungsten Electrode For Welding With Phase Control Machines



Grinding the tungsten electrode produces dust and flying sparks which can cause injury and start fires. Use local exhaust (forced ventilation) at the grinder or wear an approved respirator. Read MSDS for safety information. Consider using tungsten containing ceria, lanthana, or yttria instead of thoria. Grinding dust from thoriated electrodes contains low-level radioactive material. Properly dispose of grinder dust in an environmentally safe way. Wear proper face, hand, and body protection. Keep flammables away.

A. Preparing Tungsten For DC Electrode Negative (DCEN) Welding



1 Grinding Wheel

Grind end of tungsten on fine grit, hard abrasive wheel before welding. Do not use wheel for other jobs or tungsten can become contaminated causing lower weld quality.

2 Tungsten Electrode

A 2% ceriated tungsten is recommended.

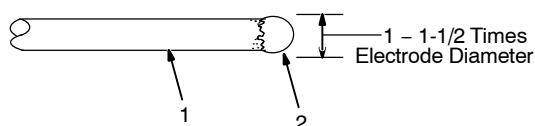
3 Flat

Diameter of this flat determines amperage capacity.

4 Straight Ground

Grind lengthwise, **not radial**.

B. Preparing Tungsten For AC Welding



1 Tungsten Electrode

A pure tungsten is recommended..

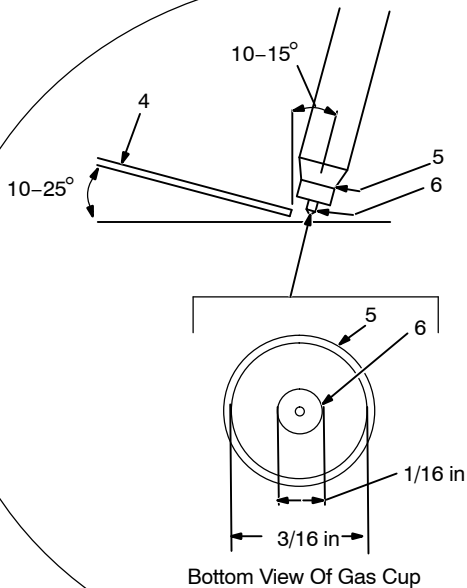
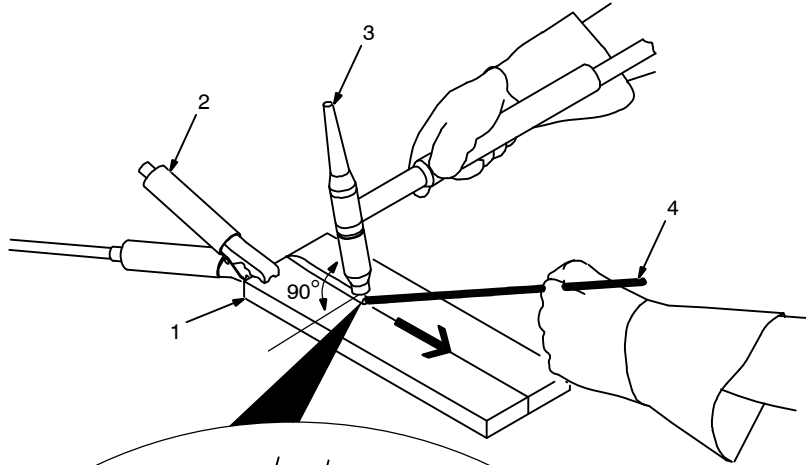
2 Balled End

Ball end of tungsten by applying AC amperage recommended for a given electrode diameter (see Section 5-1). Let ball on end of the tungsten take its own shape.

SECTION 6 – GUIDELINES FOR TIG WELDING (GTAW)

2007-04

6-1. Positioning The Torch



⚠ Grinding the tungsten electrode produces dust and flying sparks which can cause injury and start fires. Use local exhaust (forced ventilation) at the grinder or wear an approved respirator. Read MSDS for safety information. Consider using cerium or lanthanum based tungsten instead of thoriated. Thorium dust contains low-level radioactive material. Properly dispose of grinder dust in an environmentally safe way. Wear proper face, hand, and body protection. Keep flammables away.

1 Workpiece

Make sure workpiece is clean before welding.

2 Work Clamp

Place as close to the weld as possible.

3 Torch

4 Filler Rod (If Applicable)

5 Gas Cup

6 Tungsten Electrode

Select and prepare tungsten according to Section 5.

Guidelines:

The inside diameter of the gas cup should be at least three times the tungsten diameter to provide adequate shielding gas coverage. (For example, if tungsten is 1/16 in diameter, gas cup should be a minimum of 3/16 in diameter.

Tungsten extension is the distance the tungsten extends out gas cup of torch.

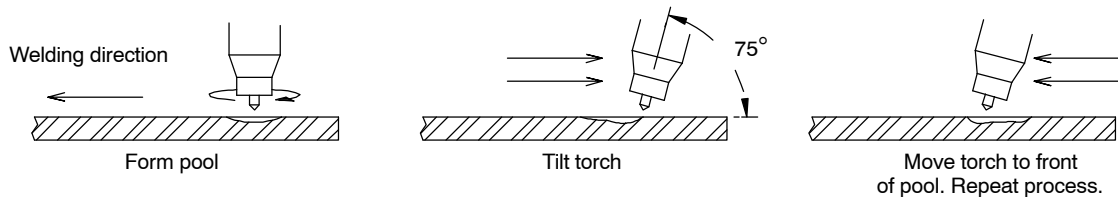
The tungsten extension should be no greater than the inside diameter of the gas cup.

Arc length is the distance from the tungsten to the workpiece.

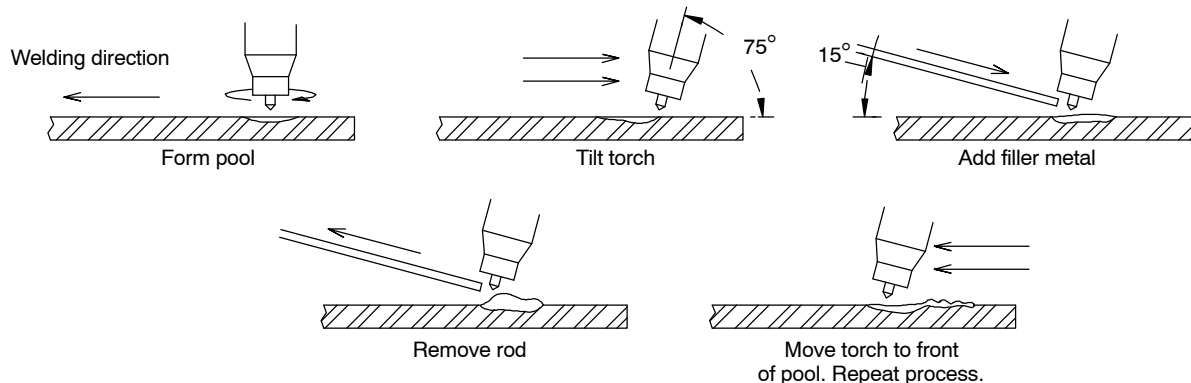
Ref. ST-161 892

6-2. Torch Movement During Welding

Tungsten Without Filler Rod



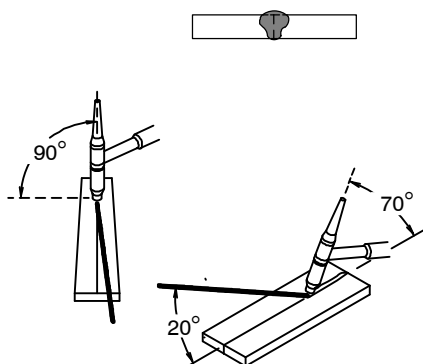
Tungsten With Filler Rod



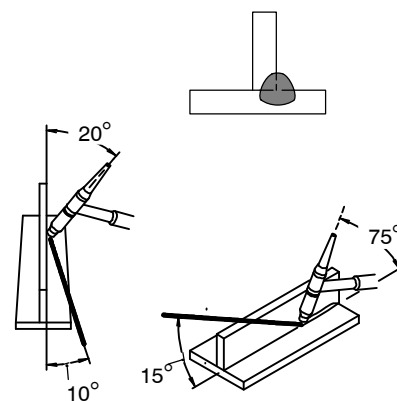
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6-3. Positioning Torch Tungsten For Various Weld Joints

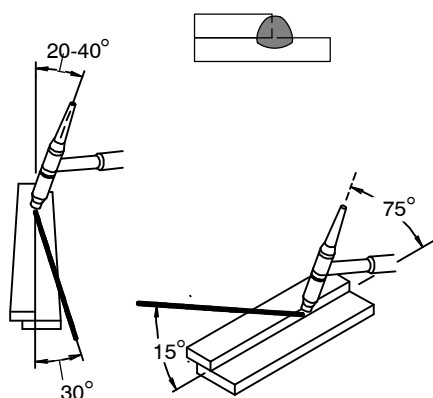
Butt Weld And Stringer Bead



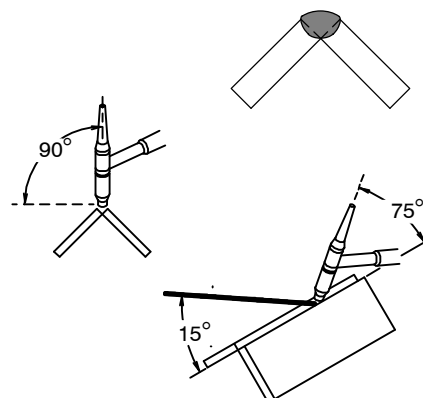
"T" Joint



Lap Joint

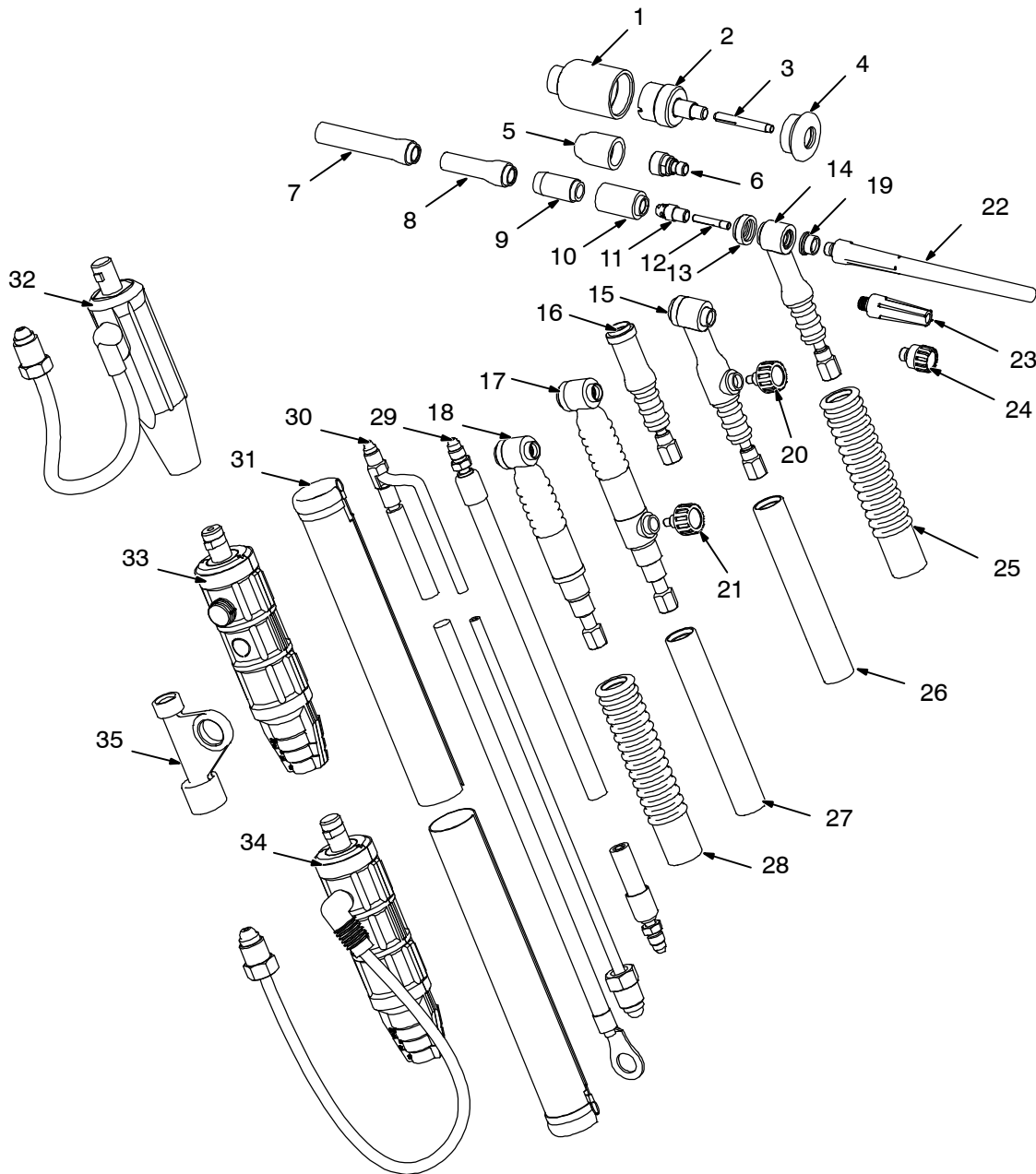


Corner Joint



ST-162 003 / S-0792

SECTION 7 – PARTS LIST



WC0197-A

Figure 7-1. Complete Torch Assembly

Item No.	Stock No.	Description	Quantity				
			Model				
			9	9V	9P	9FV	9F

Figure 7-1. Complete Torch Assembly

1	◆57N75	Nozzle, Alumina, GL, LG, No. 6 (3/8 in.)	1	1	1	1	1
1	◆57N74	Nozzle, Alumina, GL, LG, No. 8 (1/2 in.)	1	1	1	1	1
1	◆53N88	Nozzle, Alumina, GL, LG, No. 10 (5/8 in.)	1	1	1	1	1
1	◆53N87	Nozzle, Alumina, GL, LG, No. 12 (3/4 in.)	1	1	1	1	1
1	◆53N89	Nozzle, Alumina, GL, LG, Short, No. 15 (15/16 in.)	1	1	1	1	1
2	◆45V0204S	Gas Lens, LG, Stubby, 0.020–0.040 in. (0.5–1.0 mm)	1	1	1	1	1
2	◆45V116S	Gas Lens, LG, Stubby, 1/16 in. (1.6 mm)	1	1	1	1	1
2	◆45V64S	Gas Lens, LG, Stubby, 3/32 in. (2.4 mm)	1	1	1	1	1
3	◆13N20L	Collet, Gas Lens, 0.020 in. (0.5 mm)	1	1	1	1	1
3	◆13N21L	Collet, Gas Lens, 0.040 in. (1.0 mm)	1	1	1	1	1
3	◆13N22L	Collet, Gas Lens, 1/16 in. (1.6 mm)	1	1	1	1	1
3	◆13N23L	Collet, Gas Lens, 3/32 in. (2.4 mm)	1	1	1	1	1
4	◆54N63–20	Insulator, Gas Lens, LG	1	1	1	1	1
5	◆53N58	Nozzle, Alumina, GL, No. 4 (1/4 in.)	1	1	1	1	1
5	◆53N59	Nozzle, Alumina, GL, No. 5 (5/16 in.)	1	1	1	1	1
5	◆53N60	Nozzle, Alumina, GL, No. 6 (3/8 in.)	1	1	1	1	1
5	◆53N61	Nozzle, Alumina, GL, No. 7 (7/16 in.)	1	1	1	1	1
6	◆45V41	Gas Lens, 0.020 in. (0.5 mm)	1	1	1	1	1
6	◆45V42	Gas Lens, 0.040 in. (1.0 mm)	1	1	1	1	1
6	◆45V43	Gas Lens, 1/16 in. (1.6 mm)	1	1	1	1	1
6	◆45V44	Gas Lens, 3/32 in. (2.4 mm)	1	1	1	1	1
7	◆796F71	Nozzle, Lava, Long, No. 4 (1/4 in.)	1	1	1	1	1
7	◆796F75	Nozzle, Lava, X–Long, No. 4 (1/4 in.)	1	1	1	1	1
7	◆796F76	Nozzle, Lava, X–Long, No. 5 (5/16 in.)	1	1	1	1	1
7	◆796F77	Nozzle, Lava, X–Long, No. 6 (3/8 in.)	1	1	1	1	1
8	◆796F70	Nozzle, Lava, Long, No. 3 (3/16 in.)	1	1	1	1	1
8	◆796F71	Nozzle, Lava, Long, No. 4 (1/4 in.)	1	1	1	1	1
8	◆796F72	Nozzle, Lava, Long, No. 5 (5/16 in.)	1	1	1	1	1
8	◆796F73	Nozzle, Lava, Long, No. 6 (3/8 in.)	1	1	1	1	1
9	◆13N14	Nozzle, Lava, No. 4 (1/4 in.)	1	1	1	1	1
9	◆13N15	Nozzle, Lava, No. 5 (5/16 in.)	1	1	1	1	1
9	◆13N16	Nozzle, Lava, No. 6 (3/8 in.)	1	1	1	1	1
9	◆13N17	Nozzle, Lava, No. 7 (7/16 in.)	1	1	1	1	1
9	◆13N18	Nozzle, Lava, No. 8 (1/2 in.)	1	1	1	1	1
9	◆13N19	Nozzle, Lava, No. 10 (5/8 in.)	1	1	1	1	1
10	◆13N08	Nozzle, Alumina, No. 4 (1/4 in.)	1	1	1	1	1
10	◆13N09	Nozzle, Alumina, No. 5 (5/16 in.)	1	1	1	1	1
10	◆13N10	Nozzle, Alumina, No. 6 (3/8 in.)	1	1	1	1	1
10	◆13N11	Nozzle, Alumina, No. 7 (7/16 in.)	1	1	1	1	1
10	◆13N12	Nozzle, Alumina, No. 8 (1/2 in.)	1	1	1	1	1
10	◆13N13	Nozzle, Alumina, No. 10 (5/8 in.)	1	1	1	1	1
11	◆13N25	Collet Body, 0.020 in. (0.5 mm)	1	1	1	1	1
11	◆13N26	Collet Body, 0.040 in. (1.0 mm)	1	1	1	1	1
11	◆13N27	Collet Body, 1/16 in. (1.6 mm)	1	1	1	1	1
11	◆13N28	Collet Body, 3/32 in. (2.4 mm)	1	1	1	1	1
12	◆13N20	Collet, 0.020 in. (0.5 mm)	1	1	1	1	1
12	◆13N21	Collet, 0.040 in. (1.0 mm)	1	1	1	1	1
12	◆13N22	Collet, 1/16 in. (1.6 mm)	1	1	1	1	1
12	◆13N23	Collet, 3/32 in. (2.4 mm)	1	1	1	1	1
13	◆598882	Insulator, Nozzle	1	1	1	1	1
14	◆WP–9	Torch Body, 125A, A/C	1				
15	◆WP–9V	Torch Body, 125A, A/C		1			
16	◆WP–9P	Torch Body, 125A, A/C, 180deg			1		
17	◆WP–9FV	Torch Body, 125A, A/C, FX, VLV (Includes)				1	
	◆150VTB	Torch Body, 150VTB					1

Item No.	Stock No.	Description	Quantity				
			Model				
			9	9V	9P	9FV	9F

Figure 7-1. Complete Torch Assembly (continued)

18	◆WP-9F	Torch Body, 125A, A/C, FX (Includes)					1
	◆150TB	Torch Body, 150TB					1
19	◆9-4	Insulator, Back Cap	1	1		1	1
20	◆VS-2	Knob, Valve	1		1		
21	◆VS-2	Knob, Valve	1		1		
22	◆41V24	Back Cap, Long	1	1		1	1
23	◆41V35	Back Cap, Medium	1	1		1	1
24	◆41V33	Back Cap, Short	1	1		1	1
25	◆H-100R	Handle, Ribbed (WP-9, WP-9V, WP-9P)	1	1		1	
26	◆H-100	Handle, Knurled (WP-9, WP-9V, WP-9P)	1	1		1	
27	◆105Z55	Handle, Knurled, Thrd (WP-9FV, WP-9F)					1
28	◆105Z55R	Handle, Ribbed, Thrd (WP-9FV, WP-9F)					1
29	◆57Y01	Cable, Power, 125 Ft (38m), Vinyl	1	1		1	1
29	◆57Y03	Cable, Power, 25 Ft (76m), Vinyl	1	1		1	1
29	◆57Y01R	Cable, Power, 125 Ft (38m), Rubber	1	1		1	1
29	◆57Y03R	Cable, Power, 25 Ft (76m), Rubber	1	1		1	1
30	◆57Y01-2	Cable, Power, 2pc, 125 Ft (38m), Rubber (Includes)	1	1		1	1
	◆45V09R	Hose, Gas, 125 Ft (38m), Rubber	1	1		1	1
30	◆57Y03-2	Cable, Power, 2pc, 25 Ft (76m), Rubber (Includes)	1	1		1	1
	◆45V10R	Hose, Gas, 25 Ft (76m), Braided	1	1		1	1
31	◆WC-3-10	Cover, Cable, 10 Ft (30m)	1	1		1	1
31	◆WC-3-22	Cover, Cable, 22 Ft (67m)	1	1		1	1
32	◆195378	Adapter, Gas, Torch-Intl	1	1		1	1
33	◆Q5GT-150	Conn, Qwik, 150A, 50 mm, FlowThru	1	1		1	1
34	◆Q5G-150	Conn, Qwik, 150A, 50 mm, w/Hose (Includes)	1	1		1	1
	◆PCA-5-16	Hose, Gas, 18 in. (0.2m), RH	1	1		1	1
35	◆105Z57	Adapter, Power Cable	1	1		1	1
	◆AK-1	Kit, Accessory, Thoriated (not shown)	1	1		1	1
	◆AK1C	Kit, Accessory, Ceriated (not shown)	1	1		1	1

◆OPTIONAL

BE SURE TO PROVIDE MODEL AND STYLE NUMBER WHEN ORDERING REPLACEMENT PARTS.

Notes



Owner's Record

Please complete and retain with your personal records.

Model Name

Serial/Style Number

Purchase Date

(Date which equipment was delivered to original customer.)

Distributor

Address

City

State

Zip



For Service

Contact a *DISTRIBUTOR* or *SERVICE AGENCY* near you.

Always provide Model Number.

Contact your Distributor for:

Welding Supplies and Consumables

Options and Accessories

Personal Safety Equipment

Service and Repair

Replacement Parts

Welding Process Handbooks

Weldcraft

An Illinois Tool Works Company
2741 N. Roemer Rd
Appleton, WI 54911 USA

1-800-752-7620 Toll Free

1-920-882-6800 Phone

1-920-882-6844 FAX

www.Weldcraft.com

To locate a Distributor or Service Agency call 1-800-752-7620 or 920-882-6800

Contact the Delivering Carrier to:

File a claim for loss or damage during shipment.

For assistance in filing or settling claims, contact your distributor and/or equipment manufacturer's Transportation Department.