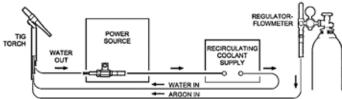
## -CK WORLDWIDE INC.-

WARRANTY:

CK Worldwide, Inc. warrants products manufactured by CK Worldwide, Inc. to be free of defects in materials and workmanship. CK Worldwide, Inc. limits this warranty to replacement of the product or parts thereof and excludes liability for injury, property damage or economic loss attributable to product use or misuse. In any event, CK Worldwide, Inc. will only be responsible for its products when used with accessory items manufactured by CK Worldwide, Inc.

INSTALLATION: Before using this torch, - tighten regulator, hose and power cable fittings with proper wrenches. Using small pliers, securely tighten all knurled hose fittings (Slide the torch handle back for access to the torch connections). Purge the regulator and TIG torch with inert gas at 20 cubic feet per hour. Following these steps will ensure contamination free welds. Repeat this procedure whenever torch or regulator fittings have been detached.

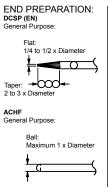
### CONNECTION DIAGRAM:



### INFORMATION CHART:

Electrode Diameter in inches (mm)	Cup Size	WELDING CURRENT (AMPS) - TUNGSTEN TYPE				ARGON FLOW - FERROUS METALS		ARGON FLOW - ALUMINUM	
		AC Pure	AC Thoriated	DCSP Pure	DCSP Thoriated	Standard Body (Liters)	Gas Lens Body (Liters)	Standard Body (Liters)	Gas Lens Body (Liters)
.020 (0.50)	4 or 5	5 - 15	5 - 20	5 - 15	5 - 20	5-8 (3-4)	5-8 (3-4)	5-8 (3-4)	5-8 (3-4)
.040 (1.00)	4 or 5	10 - 60	15-80	15 - 70	20 - 80	5-10 (3-5)	5-8 (3-4)	5-12 (3-6)	5-10 (3-5)
1/16 (1.60)	4, 5 or 6	50 - 100	70 - 150	70 - 130	80 - 150	7-12 (4-6)	5-10 (3-5)	8-15 (4-7)	7-12 (4-6)
3/32 (2.40)	6, 7 or 8	100 - 160	140 - 235	150 - 220	150 - 250	10-15 (5-7)	8-10 (4-5)	10-20 (5-10)	10-15 (5-7)
1/8 (3.20)	7, 8 or 10	150 - 210	220 - 325	220 - 330	240 - 350	10-18 (5-9)	8-12 (4-6)	12-25 (6-12)	10-20 (5-10)
5/32 (4.00)	8 or 10	200 - 275	300 - 425	375 - 475	400 - 500	15-25 (7-12)	10-15 (5-7)	15-30 (7-14)	12-25 (6-12)
3/16 (4.80)	8 or 10	250 - 350	400 - 525	475-800	475-800	20-35 (10-17)	12-25 (6-12)	25-40 (12-19)	15-30 (7-14)
1/4 (6.40)	10	325 - 700	500 - 700	750 - 1000	700 - 1100	25-50 (12-24)	20-35 (10-17)	30-55 (14-26)	25-45 (12-21)

### TUNGSTEN PREPARATION:



Ball tip by arcing on clean metal

at low current DCRP (EP) then

slowly increase current to form

the desired ball diameter.

Shape tungsten by grinding Remove sharp point to leave a truncated point with a flat spot. Diameter of flat spot determines The included angle determines weld bead shape and size. Generally, as the included angle increases. penetration increases and bead

Use a 60 Grit or finer aluminum

GRINDING PREPARATION: EXTENSION INSTRUCTION: STANDARD PARTS General Purpose:



GAS LENS PARTS General Purpose:



6 x Diameter from end of cup.

CAUTION:

Personal harm will result from touching the hot parts of a TIG torch without insulative protection, or from looking directly or indirectly at an arc or reflected arc. At no time should bare skin be exposed to a welding arc.



# TIG TORCH MANUAL



# **FL230 WATER COOLED**

### **TECHNICAL INFORMATION**

RATING @ 100% DUTY CYCLE: 230 AMP ACHF OR DCSP

COOLING METHOD: WATER COOLED

### ACCESSORY ITEMS REQUIRED FOR COMPLETE INSTALLATION:

HEAD ACCESSORIES: 2 SERIES HEAD ACCESSORIES

POWER CABLE ADAPTOR: 45V11 (2PCA)

**MODEL SELECTOR - TORCH PACKAGES** 

BODY STYLE - CABLE STYLE	HEAD	CABLE LENGTH	HI-FLEX CABLE	SUPERFLEX CABLE	
FL230-NO VALVE	FL2L	12-1/2 ft. (3.8m)	FL2312	FL2312SF	
CABLE		25 ft (7.6m)	FL2325	FL2325SF	

### HEAD ADJUSTMENT FOR FLEX-LOC

HOLD HEAD ADJUSTING STEM IN PLACE AND ROTATE HEAD COUNTER-CLOCKWISE ONE FULL TURN.







ROTATE HEAD AND ADJUSTING STEM SIMULTANEOUSLY IN SAME DIRECTION TO DESIRED ANDLE



4. HOLD ADJUSTING STEM IN PLACE AND ROTATE HEAD CLOCKWISE UNTIL

CK WORLDWIDE INC. 3501 "C" ST. N.E. **AUBURN. WA. 98002** 

PHONE: (253) 854-5820 PHONE: (800) 426-0877 FAX: (253) 939-1746

www.ckworldwide.com ck@ckworldwide.com

