

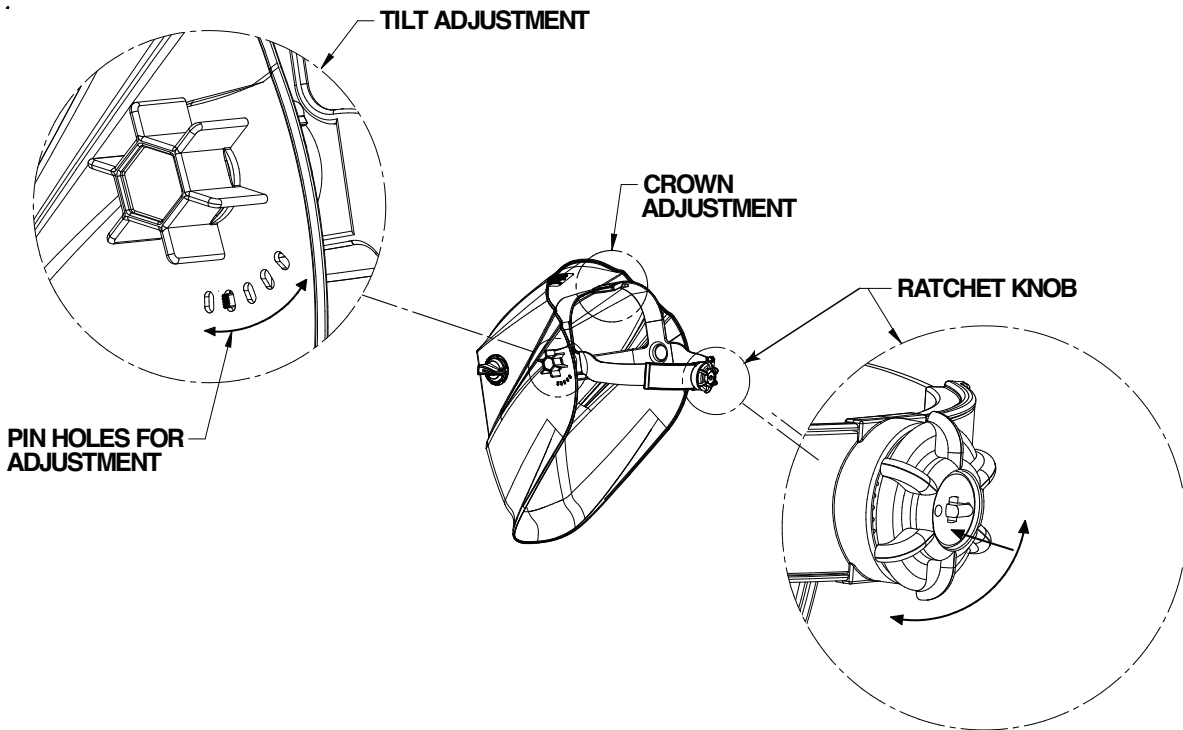
OPERATING INSTRUCTIONS

WARNING

BEFORE FIRST USE:

The Auto-Darkening welding helmet needs to be charged prior to use and after extended storage. Face the solar cell on the helmet toward sun light or light bulb for at least 1 hour before use.

HEADGEAR ADJUSTMENT:



Headband tightness is adjusted by pushing in the ratchet knob and turning to adjust to desired comfort level. This knob is located at the back of the helmet. **HEAD GEAR CROWN ADJUSTMENT** is made by adjusting crown strap for vertical placement on the head and snapping the pin into the hole to lock securely in place.

Tilt: Tilt is adjusted on the left side of the helmet. TILT is adjusted by loosening outside tension knob and releasing the adjustment lever from its current location and moving it to another location. Retighten the outside tension knob when finished.

ALWAYS TEST TO BE SURE THE ADF CARTRIDGE IS CHARGED BEFORE WELDING. The helmet needs to be charged prior to first use and after extended storage. Face the solar cell on the helmet toward sun light or light bulb for at least 1 hour before use.

SHADE GUIDE SETTINGS

GUIDE FOR SHADE NUMBERS				
OPERATION	ELECTRODE SIZE 1/32 in. (mm)	ARC CURRENT (A)	MINIMUM PROTECTIVE SHADE	SUGGESTED ⁽¹⁾ SHADE NO. (COMFORT)
Shielded metal arc welding	Less than 3 (2.5)	Less than 60	7	–
	3-5 (2.5–4)	60-160	8	10
	5-8 (4–6.4)	160-250	10	12
	More than 8 (6.4)	250-550	11	14
Gas metal arc welding and flux cored arc welding		Less than 60	7	–
		60-160	10	11
		160-250	10	12
		250-500	10	14
Gas tungsten arc welding		Less than 50	8	10
		50-150	8	12
		150-500	10	14
Air carbon Arc cutting	(Light)	Less than 500	10	12
	(Heavy)	500-1000	11	14
Plasma arc welding		Less than 20	6	6 to 8
		20-100	8	10
		100-400	10	12
		400-800	11	14
Plasma arc cutting	(Light) ⁽²⁾	Less than 300	8	9
	(Medium) ⁽²⁾	300-400	9	12
	(Heavy) ⁽²⁾	400-800	10	14
Torch brazing		–	–	3 or 4
Torch soldering		–	–	2
Carbon arc welding		–	–	14
PLATE THICKNESS				
	in.	mm		
Gas welding	Under 1/8	Under 3.2		4 or 5
	1/8 to 1/2	3.2 to 12.7		5 or 6
	Over 1/2	Over 12.7		6 or 8
Oxygen cutting	Under 1	Under 25		3 or 4
	1 to 6	25 to 150		4 or 5
	Over 6	Over 150		5 or 6

(1) As a rule of thumb, start with a shade that is too dark, then go to a lighter shade which gives sufficient view of the weld zone without going below the minimum. In oxyfuel gas welding or cutting where the torch produces a high yellow light, it is desirable to use a filter lens that absorbs the yellow or sodium line the visible light of the (spectrum) operation.

(2) These values apply where the actual arc is clearly seen. Experience has shown that lighter filters may be used when the arc is hidden by the workpiece.

Data from ANSI Z49.1-2005

If your helmet does not include any one of the shades referenced above, it is recommended you use the next darker shade.