

ADI 1852-I **CONCOA STYLE 757** #12 Heating Tip

8112032-00-1

SAFFTY

Install pressure regulators on cylinders (or pipeline branch). Comply with CONCOA manual "Safe Practices in Welding & Cutting" ADE 872, and torch and regulator instruction manuals.

FUEL GAS SUPPLY

To assure proper operation, check that there is ample fuel and that the available pressure is slightly higher than shown on operating data. To provide adequate gas flows, use:

- Manifolds for cylinders where required;
- Regulators that provide required flow capacity;
- Hose size as recommended in operating data;
- Minimum hose lengths with minimum couplings; and
- Fittings (and check valves) with a minimum flow passage diameter of 1/4-inch for B size.

IGNITION PROCEDURE

- 1. Avoid ignition delays. Be sure you have a sparklighter in good working order.
- 2. Ignite with average fuel flow and NO oxygen.
- 3. Increase fuel flow substantially.
- 4. Carefully start oxygen flow and increase until flame goes from strongly carburizing to neutral.
- 5. For large tips, alternately repeat steps 3 and 4 until full flow rate is reached.
- 6. Trim flame to proper ratio by appearance (see guide for fuel being used).

TO PREVENT TIP BURNOUT

Keep the tip cool by using flow rates in guide. Reducing flow rates or allowing flames to backwash over tip (by blind hole, etc.) will raise temperature. Severe backwash will burn tip.

WARNING

A flashback (oxygen-fuel mixture burning inside extension tube) can cause a severe burn hazard. To avoid injury in case of flashback, immediately close both torch valves to extinguish flame. Do not touch mixer, extension tube, or tip until they are cool.

FOR EFFICIENT LOW COST HEATING

- 1. Use proper size tip. Too small takes excessive time to reach desired temperature. Too large wastes fuel and oxygen without substantially reducing heating time. Make trial heats with different tips comparing fuel consumption (cfh x elapsed time) to determine most economical tip.
- 2. Use flow rate recommended in this guide. This rate gives the most efficient flame velocity, an important factor in transferring heat to the work. If heat is too small or too great, do not change flow rate, change to smaller or larger tip.

VISUALLY ADJUSTING FLAME

Experienced operators making frequent tip changes can take advantage of this simple method. See the recommended gas pressure and light torch as outlined above. When torch valves are wide open (11/2 to 2 turns), alternately increase gas pressure on delivery regulators until flame cone is in ratio and of recommended length.

ADJUSTING WITH TEST GAUGES

Install test gauges (stock numbers: 803-0503 for oxygen and 803-0504 for fuel) between hose and torch valves. Adjust delivery pressures as recommended in guide. Follow ignition procedure steps 1-4 and then adjust delivery pressures while observing test gauges until recommended levels are reached.

NOTE

The regulator gauges will always show a higher pressure than the test gauges because of loss, or drag, in the hoses. A large disparity results from too small a diameter, too long a hose, or old hose with too many splices.

Make final ratio adjustment while keeping recommended flame cone length and record regulator delivery pressures for future use. After shutdown, remove test gauges and reconnect hoses and check valves.

WARNING

Use in well-ventilated area. Operation in closed area can result in oxygen-deficient atmosphere.



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1	140	3/4	22	8	2:1	Natural Gas
4	70	3/4	18	8	4:1	Propane
2	75	9/16	25	8	4:1	riopyleile
3	100	3/4	20	9	2.5:1	
3	175	1/2	19	10	1.1:1	Acetylene*
OTERALION+	(CFF)	(IIICII)	ОХҮ	FUEL	XAII O	
CONTINUOUS	RATE	LENGTH	8110899	MIXER 8110899	FUEL	FUELS
REQUIRED FOR	FLOW	CONE	01-1 with Mixer Listed Below	STYLE 800 TORCH 8190800-01-1 with Mixer Listed Below	70 X	
NO. OF 100 LB	!		TORCH INLET PRESSURE (PSIG)†	TORCH INLET PR		
ose Length: 25 feet	laximum H	ize: ø5/16 in • N	0465") • Minimum Hose S	Number of Heating Orifices: 12 • Drill Number: 56 (ø.0465") • Minimum Hose Size: ø5/16 in • Maximum Hose Length: 25 feet	ing Orifices	Number of Heat
-1	3112032-00	57 PART NO. 8	ATA: CONCOA STYLE 7	#12 HEATING TIP OPERATING DATA: CONCOA STYLE 757 PART NO. 8112032-00-1	#12 HEA	

CAUTION

Use RMA-CGA grade T hose for all fuel gases to prevent hose failure. Use grades R and RM for acetylene only.

FLASHBACK ARRESTORS/CHECK VALVES

Flashback arrestors with integral check valves prevent the reverse flow of mixed gas and flame flashback into the gas supply lines.

For Regulators	Resettable for Regulators	For Torches
801-7003 "B" Size, Fuel 801-7004 "B" Size, Oxygen	801-7001 "B" Size, Fuel 801-7002 "B" Size, Oxygen	801-7007 "B" Size, Fuel 801-7008 "B" Size, Oxygen
Meets OSHA Requirem	nents Con	nplies with ISO 5175

CUSTOMER ASSISTANCE

In the event of equipment failure, call the CONCOA Customer Assistance Line: 1-800-225-0473. Please be prepared to provide the model number and serial number of the equipment involved, in addition to details regarding its application.



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Meets OSHA Requirer	nents Cor	nplies with ISO 5175

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