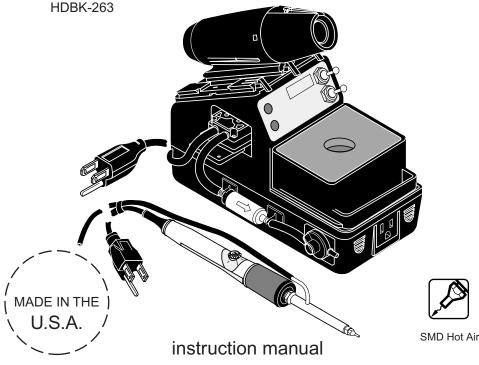


# 1036-2301

## **ATMOSCOPE**<sub>®</sub>

self-contained SMD HOT AIR WORK STATION

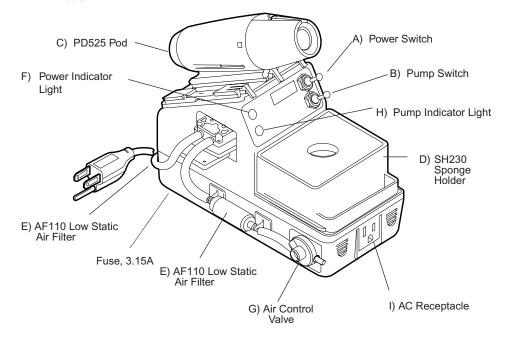
 COMPLIES WITH MIL-S-45743E, MIL-STD-2000, DOD-STD-2000-1B, WS6536E AND ESD SPEC, DOD-STD-1686, DOD-



#### **FEATURES**

PS542 ATMO-SCOPE<sub>®</sub> Power Supply





- A) Activates System Power.
- B) Turns on and shuts off Pump.
- C) Tool Holder minimized heat dissipation when Tool is not in use.
- D) Includes (1) LN230 Liner, (1) RS199 Cleaning Sponge and RS243 Leveling Pad.
- E) Filters air coming in to the Pump. Acts as silencer
- F) Lights when power is on.
- G) Regulates air flow to Tool. (connect to FA069I)
- H) Lights when Pump is running.
- I) Can accomodate 2 more 230V soldering Tools.

#### SPECIFICATIONS:

- 230 V. 50/60 Hz. 150 W
- Weight: 4.6 lbs. (2.09 kgs.)
- Temperature range: 400°F 800°F (205°C 425°C)
- Temperature regulation: ± 6°F (±3°C)
- Voltage leakage from tip to ground less than 2 MV
- Tip to ground resistance less than 2 ohm
- · Maximum pressure: 18 psi.

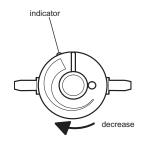
## OPERATING THE STATION

The 3 very important factors involved when working with the Hot Air Station are amount of air output, temperature setting and type of Tip used. The key to an effective soldering is to reflow the solder without blowing the solder across the board and thus creating bridges.

CAUTION: DO NOT POINT TOOL AT ANYONE OR ANYWHERE. HOT AIR WILL BURN !!!

- 1. Make sure the station is plugged into a 230V power outlet.
- 2. Turn on Power Switch .
- 3. Set Temperature Control Knob to around 600°F.
- 4. Allow Tool to heat up.(Blinking Neon Lamp means ready.)
- 5. Turn on Pump.

Set the Air Control Valve to a full counter clockwise position. This will be our reference setting which is 100%. Turning it the other way will mean less air output.



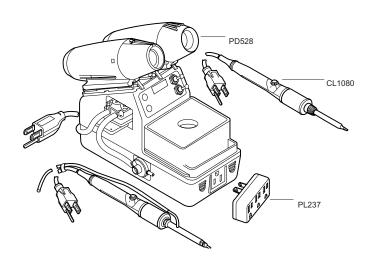
## **OPTIONS:**

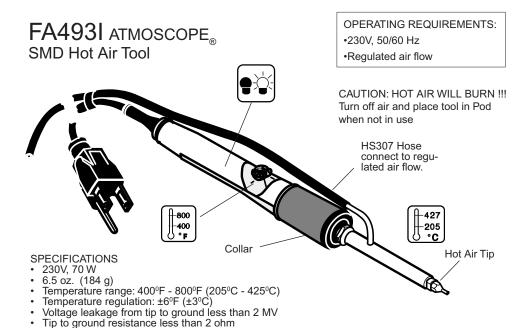
1036-3-230I ATMOSCOPE

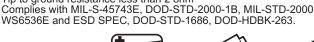
SMD Workstation

A 1036 with: (1) CL1580I\*

\* Temperature Controlled Soldering Instrument, 70W. 400°F - 800°F Temp. Range.









## **OPERATION**

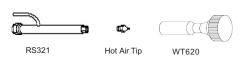
The 3 very important factors involved when working with the ATMOSCOPE SMD Hot Air Tool are amount of air output, temperature setting and type of Tip used. The key to an effective soldering is to reflow the solder without blowing the solder across the board and thus creating bridges.

- 1. Have the proper Tip installed.
- 2. Connect Hose to regulated air source.
- 3. Plugged-in Tool to a power source and set desired temperature.
- 4. Turn on the air and adjust pressure.
- Direct hot air towards the connection until solder melts. Using "SMD helpers" will make your job easier.



CHANGING TIPS Efficiency is greatly dependent on choosing the proper tip to meet each application.

- Turn Tip counter-clockwise by using a WT618 Tip Wrench. (set of 2, the other is to hold the RS321 Retaining Sleeve) or use a WT620.
- 2. Remove and replace with desired Tip.



### **REWORKING SMDs**

The following techniques are based on the manufacturer's point of view and should only serve as guidelines. It's effectiveness will depend on practice.

INSTRUCTIONAL VIDEOS AVAILABLE ON 30 DAY LOAN. CALL EDSYN.

#### METHOD 1

(RECOMMENDED FOR GULLWINGS, LEADLESS CHIP CARRIERS and QUAD I.Cs.)

- 1. Install the proper Tip.
- 2. Adjust air output to 3-4 psi.
- 3. Set temperature to 700°F.
- Using a WS630 SMD Pull Wire, thread the pullwire under the leads of one side of the SMD and again thread the wire under the leads of the opposite side.
- 5. Anchor one end of the Pull Wire to an unused hole of the circuit board or maybe tape it securely to the board.
- While directing hot air to the leads of the first side, pull the wire so that it will cut thru the solder connection.
- 7. After removing the two opposing side follow the same procedure to desolder the remaining sides.





- 8. To resolder, use a tweezer to hold SMD in place and align the leads with the pads.
- Use a Fan Tip whose width is as close to the size of the SMD leads as possible.
- 10.Direct hot air on the leads and allow solder to reflow. Release SMD when solder solidifies.

## METHOD 2 (RECOMMENDED FOR LEADLESS CHIP CARRIERS)

- 1. Have the proper Tip installed.
- 2. Adjust air output to about 3-4 psi.
- 3. Set temperature to 700°F.
- 4. Heat up one corner of the SMD.
- When the solder melts, insert the shimblade of SMD helper under the heated area of the chip as if cutting thru the solder connection.
- While directing hot air ahead of the shim at all times, cut thru the sides of the SMD and lift it up from the board.
- 7. To resolder, use a Quadra-Flow Tip.



#### METHOD 3

- Use a Dual Flow Tip whose width comes closes to the width of the SMD component leads.
- 2. Adjust temperature to about 750°F.
- 3. Adjust air output at around 3-5 psi.
- Position Tool on top of the SMD (air is directed on both sides of the connection) and move back and forth, until solder melts.
- 5. Lift SMD off the board by using a pair of tweezers.
- 6. To resolder, use a tweezer to hold SMD in place and align leads with the pad.
- 7. Direct hot air to the leads and reflow the solder. Release SMD when solder solidifies.



See Catalog for SMD Helpers, Pull Wires and other tools used in aiding SMD removal and placing.

## SMD Hot Air Tips

	OIVID TIO	Part	Hole		
Application	Description	No.	Dia.	L	W
	Jet Tip for pin point air flow.	LT427	.02 in. 1/64 in. (0.6 mm)	.38 in. 3/8 in (9.5 mm)	
	Short Jet Tip for medium air B Hole Dia.	LT432	.04 in. 3/64 in. (0.9 mm)	.06 in. 1/16 in. (1.5 mm)	
	Turbo Flow for large air flow.	LT428	.06 in. 1/16 in. (1.5 mm)	.25 in. 1/4 in. (6.4 mm)	
	Fan Tips use a wide air flow enough to cover one whole side of	LT426		.30 in. 5/16 in. (7.6mm)	.17 in. 3/16 in. (4.3 mm)
	.020 in (.5 mm)	LT434		.46 in. 15/32 in. (11.7 mm)	.23 in. 15/64 in. (5.7 mm)
		LT435		.59 in. 19/32 in. (14.9 mm)	.35 in. 3/8 in. (8.9 mm)
		LT436		.65 in. 21/32 in. (16.5 mm)	.43 in. 7/16 in. (10.8 mm)
	Dual Flow Tips blow hot air on both sides of the SMD, not on the SMD.	LT526	.03 in. 1/32 in. (0.8 mm)	.30 in. 5/16 in. (7.6 mm)	.12 in. 1/8 in. (3.2 mm)
	FB→	LT534		.46 in. 15/32 in. (11.7 mm)	.20 in. 13/64 in. (5.1 mm)
	Hole Dia.	LT535	.05 in. 3/64 in. (1.2 mm)	.59 in. 19/32 in. (14.9 mm)	.28 in. 17/64 in. (7.0 mm)
		LT536		.65 in. 21/32 in. (16 .5 mm)	.35 in. 23/64 in. (8.9 mm)

Apply AN112 or AN122 ANTI-SEIZE COMPOUND To Heater and Area of Tip Contact. AN122 comes in syringe dispenser.

## ACCESSORIES:



## LP250

Lifting Pencil

Vacuum Pick-Up Tool. Low Static. Comes with two types of suction cups. Needs vacuum source.



## PD532

Lifting Pencil Pod Holder for the LP250. Attach to any Edsyn Station.

## POWER SUPPLY

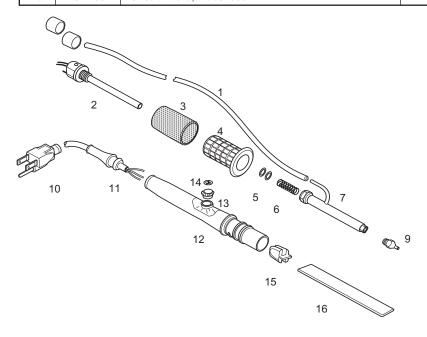
Check that all connections, switches and power source are properly installed and working.

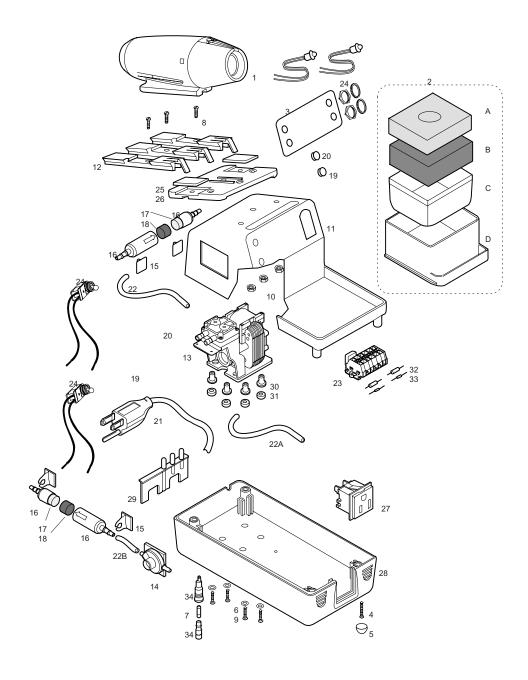
TROODLEGITOOTING	TKOOBLESTIOOTING				
Symptom	Cause	Remedy			
No power Pump won't run.	Blown fuse Damaged motor	Replace fuse at bottom. Replace motor			
Pump running but weak or no air output.	<ul> <li>a) Leak along the air lines and O-rings inside Heater assembly.</li> <li>b) Dirty filter elements.</li> <li>c) No air connection.</li> <li>d) Clogged RS321 or clogged tip.</li> <li>e) Dirty CC355 Chamber Coil.</li> <li>f) Damaged diaphram</li> </ul>	<ul> <li>a) Make sure all connections are properly installed. Replace cracked hoses and O-rings.</li> <li>b) Replace with clean filters.</li> <li>c) FA069 should be connected to Air Control Valve.</li> <li>d) Clean Air passages along RS321 and Tip.</li> <li>e) Clean CC355.</li> <li>f) send to factory</li> </ul>			

For Factory Repair, ship to: EDSYN INC.Customer Service Department 15958 Arminta Street, Van Nuys, CA 91406-1896

## FA493I ATMOSCOPE<sub>®</sub> SMD HOT AIR TOOL SPARE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	
1	HS307	Hose, Low Static Silicone (Sold Per Foot)	5 ft.
2	SR072	230 V Hollow Heater Assembly for FA493I	1
3	SR081	Vinyl Finger Grip	1
4	RC349	Threaded Retaining Collar	1
5	OS139	O-Ring, Silicone, for FA493 (Set of 2)	1 set
6	CC355	Chamber Coil for FA493 Hot Air Tool	1
7	RS321	Retaining Sleeve for FA493 Hot Air Tool	1
9	LT428	LONER® S.M.D. Hot Air Turbo Flow Tip	1
10	SR028	Power Cord, 3-Prong, 120 VAC	1
11	SR029	Boot for Power Cord	1
12	SR030	Clear Handle for Model 930	1
13	SR031	Knob, Temperature Control for Clear Handle	1
14	SR111	Logo, 3/8" Dia. Aluminum, Self Adhesive	1
15	SR032	Cord Strain Relief	1
16	SR105	Circuit Board, Model 930	1





## 1036-230I POWER SUPPLY SPARE PARTS LIST

1         PD525         Tool Pod for SMD Hot Air Tools         1           2         SH230         Sponge Holder with LN230, RS199, RS243         1           2A         RS199         Cleaning Sponge for SH230         1           2B         RS243         Leveling Pad for SH230         1           2C         LN230         Liner for SH230         1           2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Flat Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR019         Dovetail Mount         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1	ITEM			QTY REQ'D
2         SH230         Sponge Holder with LN230, RS199, RS243         1           2A         RS199         Cleaning Sponge for SH230         1           2B         RS243         Leveling Pad for SH230         1           2C         LN230         Liner for SH230         1           2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15<			DESCRIPTION	
2A         RS199         Cleaning Sponge for SH230         1           2B         RS243         Leveling Pad for SH230         1           2C         LIV230         Liner for SH230         1           2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         <				-
2B         RS243         Leveling Pad for SH230         1           2C         LN230         Liner for SH230         1           2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           11         SR018         Top Cover         1           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR441         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Hold				
2C         LN230         Liner for SH230         1           2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18<				
2D         SH230-1         Sponge Holder Tray         1           3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd, Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 18, set of 19, set of 19, set of 19, set of 19, set of				
3         SR010         Label, Control Panel for 1036         1           4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           20         SR801         LED, Green         1           21 <td></td> <td></td> <td></td> <td></td>				
4         SR011         Screw, Pan Head Phillips         4           5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22				-
5         SR012         Rubber Foot         4           6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           16         AF110         In-Line Filter (Set of 10)         4           16         AF110         In-Line Filter (Set of 10)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22			,	
6         SR016         Flat Washer         4           7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"     <				
7         SR563         Fuse, 3.15A         1           8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           23         SR160         Terminal Block, 9 Port				
8         SR015         Screw, Flat Head Slotted         3           9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (set of 10)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           20         SR801         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22         SR734         Toggle On/Off Switches         2           23         SR160         Terminal Block, 9 Port         1	<u> </u>			· ·
9         SR468         Screw, Rd. Head Phillips         4           10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         2"         53/4"           22B         2"         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034	I			-
10         SR467         Nut, Square Cone         3           11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR03				
11         SR018         Top Cover         1           12         SR019         Dovetail Mount         1           13         SR491         Vacuum Pump, 230 VAC, 50/60 Hz         1           14         SR719         Air Flow Control Valve         1           15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         53/4"           22B         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR035         Dovetail Riser Adapter Plate				
12       SR019       Dovetail Mount       1         13       SR491       Vacuum Pump, 230 VAC, 50/60 Hz       1         14       SR719       Air Flow Control Valve       1         15       SR439       Holder, Clip for AF110       4         16       AF110       In-Line Filter (includes items 17 & 18)       2         17       AF627       Felt Filter (set of 10)       2         18       AF040       Foam Filter (set of 10)       2         19       SR802       LED, Yellow       1         20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29	10	SR467	Nut, Square Cone	-
13       SR491       Vacuum Pump, 230 VAC, 50/60 Hz       1         14       SR719       Air Flow Control Valve       1         15       SR439       Holder, Clip for AF110       4         16       AF110       In-Line Filter (includes items 17 & 18)       2         17       AF627       Felt Filter (set of 10)       2         18       AF040       Foam Filter (set of 10)       2         19       SR802       LED, Yellow       1         20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief	11	SR018	Top Cover	1
14       SR719       Air Flow Control Valve       1         15       SR439       Holder, Clip for AF110       4         16       AF110       In-Line Filter (includes items 17 & 18)       2         17       AF627       Felt Filter (set of 10)       2         18       AF040       Foam Filter (set of 10)       2         19       SR802       LED, Yellow       1         20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut	12	SR019	Dovetail Mount	1
15         SR439         Holder, Clip for AF110         4           16         AF110         In-Line Filter (includes items 17 & 18)         2           17         AF627         Felt Filter (set of 10)         2           18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         22           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR035         Dovetail Riser Adapter Plate         1           27         SR037         3-Prong 120 VAC Receptacle         1           28         SR038         Bottom Base for PS542         1           29         SR241         Strain Relief for Power Cord         1           30         SR470         Well Nut         4           31 </td <td>13</td> <td>SR491</td> <td>Vacuum Pump, 230 VAC, 50/60 Hz</td> <td>1</td>	13	SR491	Vacuum Pump, 230 VAC, 50/60 Hz	1
16       AF110       In-Line Filter (includes items 17 & 18)       2         17       AF627       Felt Filter (set of 10)       2         18       AF040       Foam Filter (set of 10)       2         19       SR802       LED, Yellow       1         20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2 <td>14</td> <td>SR719</td> <td>Air Flow Control Valve</td> <td>1</td>	14	SR719	Air Flow Control Valve	1
17       AF627       Felt Filter (set of 10)       2         18       AF040       Foam Filter (set of 10)       2         19       SR802       LED, Yellow       1         20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	15	SR439	Holder, Clip for AF110	4
18         AF040         Foam Filter (set of 10)         2           19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         53/4"           22B         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR035         Dovetail Riser Adapter Plate         1           27         SR037         3-Prong 120 VAC Receptacle         1           28         SR038         Bottom Base for PS542         1           29         SR241         Strain Relief for Power Cord         1           30         SR470         Well Nut         4           31         SR469         Spacer         4           32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	16	AF110	In-Line Filter (includes items 17 & 18)	2
19         SR802         LED, Yellow         1           20         SR801         LED, Green         1           21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         53/4"           22B         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR035         Dovetail Riser Adapter Plate         1           27         SR037         3-Prong 120 VAC Receptacle         1           28         SR038         Bottom Base for PS542         1           29         SR241         Strain Relief for Power Cord         1           30         SR470         Well Nut         4           31         SR469         Spacer         4           32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	17	AF627	Felt Filter (set of 10)	2
20       SR801       LED, Green       1         21       SR726       Power Cord Assy., 120 VAC       1         22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	18	AF040	Foam Filter (set of 10)	2
21         SR726         Power Cord Assy., 120 VAC         1           22         HS307         Hose, Low Static Silicone, 1/8" I.D. (sold per foot)         61/2"           22A         53/4"           22B         2"           23         SR160         Terminal Block, 9 Port         1           24         SR034         Toggle On/Off Switches         2           25         SR036         Shelf Plate         2           26         SR035         Dovetail Riser Adapter Plate         1           27         SR037         3-Prong 120 VAC Receptacle         1           28         SR038         Bottom Base for PS542         1           29         SR241         Strain Relief for Power Cord         1           30         SR470         Well Nut         4           31         SR469         Spacer         4           32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	19	SR802	LED, Yellow	1
22       HS307       Hose, Low Static Silicone, 1/8" I.D. (sold per foot)       61/2"         22A       53/4"         22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	20	SR801	LED, Green	1
22A     53/4"       22B     2"       23     SR160     Terminal Block, 9 Port     1       24     SR034     Toggle On/Off Switches     2       25     SR036     Shelf Plate     2       26     SR035     Dovetail Riser Adapter Plate     1       27     SR037     3-Prong 120 VAC Receptacle     1       28     SR038     Bottom Base for PS542     1       29     SR241     Strain Relief for Power Cord     1       30     SR470     Well Nut     4       31     SR469     Spacer     4       32     SR747     Resistor for LED     2       33     SR720     Diode for LED     2	21	SR726	Power Cord Assy., 120 VAC	1
22B       2"         23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	22	HS307	Hose, Low Static Silicone, 1/8" I.D. (sold per foot)	61/2"
23       SR160       Terminal Block, 9 Port       1         24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	22A			53/4"
24       SR034       Toggle On/Off Switches       2         25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	22B			2"
25       SR036       Shelf Plate       2         26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	23	SR160	Terminal Block, 9 Port	1
26       SR035       Dovetail Riser Adapter Plate       1         27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	24	SR034	Toggle On/Off Switches	2
27       SR037       3-Prong 120 VAC Receptacle       1         28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	25	SR036	Shelf Plate	2
28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	26	SR035	Dovetail Riser Adapter Plate	1
28       SR038       Bottom Base for PS542       1         29       SR241       Strain Relief for Power Cord       1         30       SR470       Well Nut       4         31       SR469       Spacer       4         32       SR747       Resistor for LED       2         33       SR720       Diode for LED       2	27	SR037	3-Prong 120 VAC Receptacle	1
30         SR470         Well Nut         4           31         SR469         Spacer         4           32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	28	SR038	Bottom Base for PS542	1
31         SR469         Spacer         4           32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	29	SR241	Strain Relief for Power Cord	1
32         SR747         Resistor for LED         2           33         SR720         Diode for LED         2	30	SR470	Well Nut	4
33 SR720 Diode for LED 2	31	SR469	Spacer	4
33 SR720 Diode for LED 2	32	SR747	Resistor for LED	2
		SR720	Diode for LED	2
34   SK569   Fuse Holder   1	34	SR569	Fuse Holder	1

## **TEMPERATURE CALIBRATION**

- Use the DS299S to remove the temperature control knob. Remove RS321 sleeve. Turn temp. control (A) so arrow points to cord.
- Use the SRW01 to pull out heater assembly, PCB & power cord from handle. Leave enough power cord slack to install SRF30.
- Place heater assembly, PCB & power cord inside SRF30. Install RS321 and connect to air source.

#### Items Needed

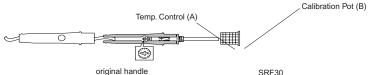
- SRW01
- DS299S
- SRF30
- MS412
- TPL09-1
- SD418

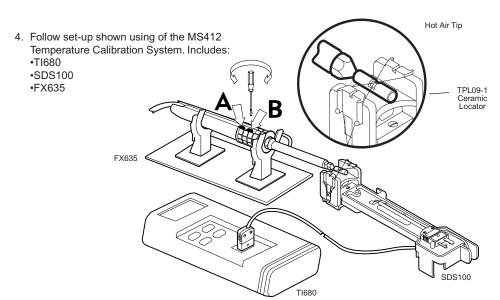




DS299S

TPL09-1





- Insert the hot air tip inside the TPL09-1, place the center of the thermocouple wire of the SDS100 inside the slot of TPL09-1 locator. Use only CLEAN thermocouple wires.
- 6. Turn on air, adjust to 5 scfh airflow.
- Turn temp. control (A) fully clockwise. Adjust calibration pot (B) until reading stabilizes at 850°F.
- 8. Assemble unit in original handle.

## 1036-230I instruction manual



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15958 Arminta Street, Van Nuys, CA 91406-1896 Phone (818) 989-2324 FAX (sales) 818-997-0895 FAX (service): 818-997-0460

FORM.