



Tool Products

# OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

## PARALLEL ARM WORKSTATION

Released: 3-27-92

Revised: 7-7-95

Models: WB230B-100, WB230B-300,  
WW230B-100 and WW230B-300.



**READ WARNINGS ON PAGE 4 BEFORE ATTACHING AIR LINE TO WORKSTATION.**

(SCREWDRIVER NOT INCLUDED)

For parts and service information, contact your local ARO distributor, or the Customer Service Dept. of the Ingersoll-Rand Distribution Center, White House, TN at PH: (615) 672-0321, FAX: (615) 672-0801.

**ARO Tool Products**

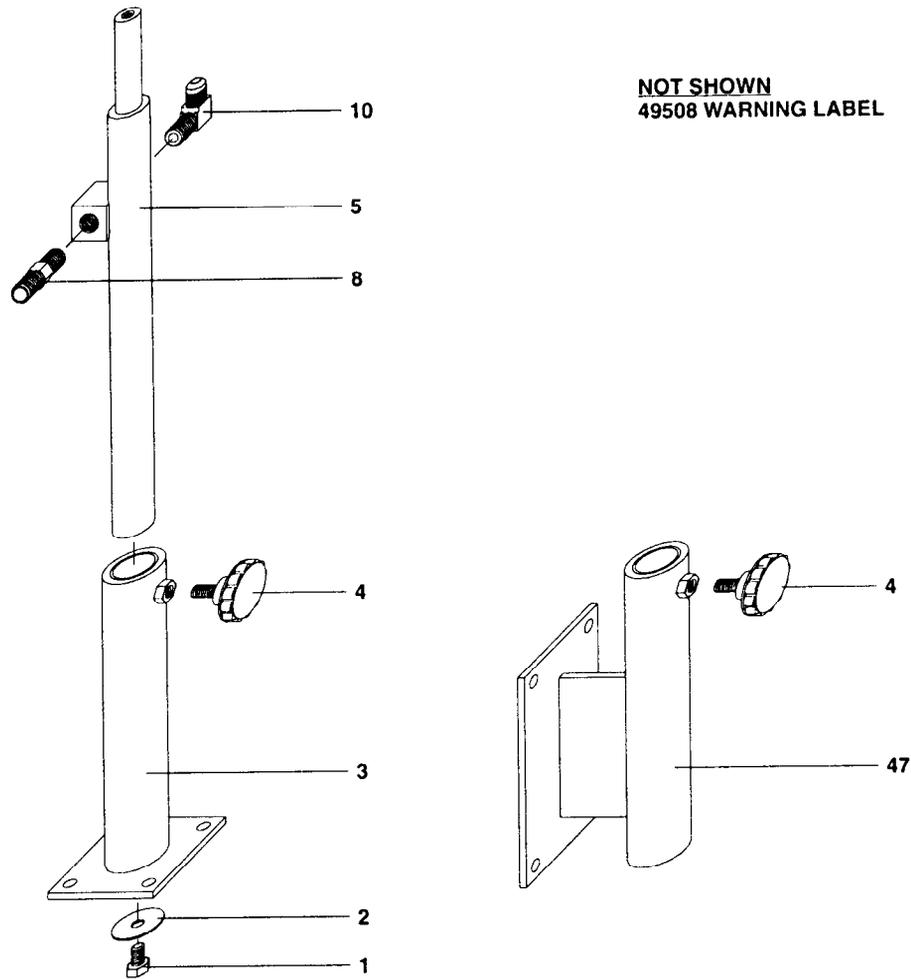
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**INGERSOLL-RAND®**  
**PROFESSIONAL TOOLS**

# MODELS WB230B-100 AND WW230B-100 (BASIC MODEL)

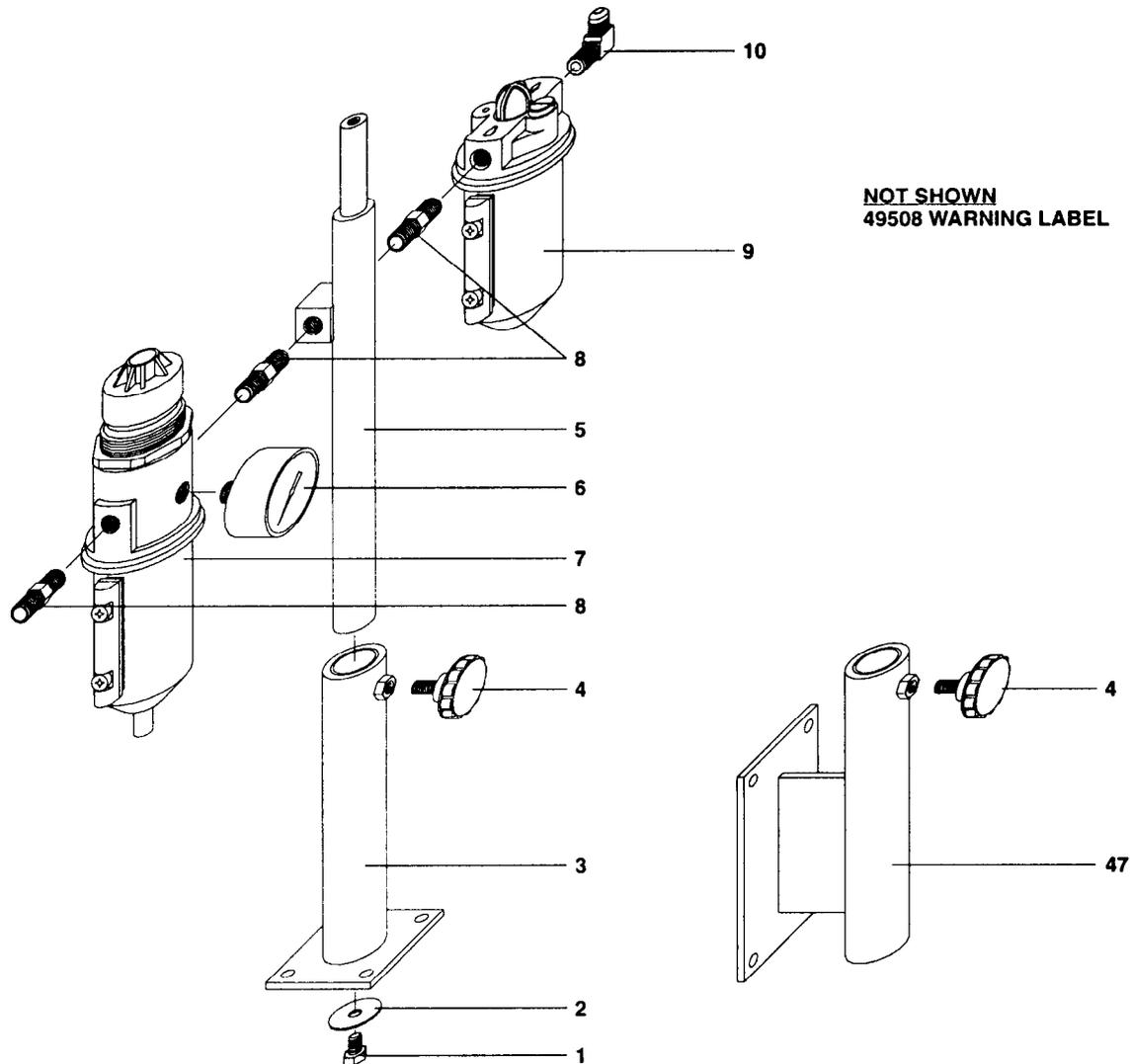


## WORKSTATION ASSEMBLY INSTRUCTIONS

NOTE: All pipe thread connections should have tape or sealant applied (not furnished).

1. Bolt or clamp lower post assembly (3 or 47) to the bench top (or wall for wall mount models) with knob (4) oriented towards the tool operator. The ported manifold block located on the upper post assembly (5) should be oriented away from the tool operator.
2. Thread 90° fitting (10) into the right side port of the manifold block and tighten. Continue on to step 4, page 5.

# MODELS WB230B-300 AND WW230B-300 (BASIC MODEL WITH F.R.L.)



## WORKSTATION ASSEMBLY INSTRUCTIONS

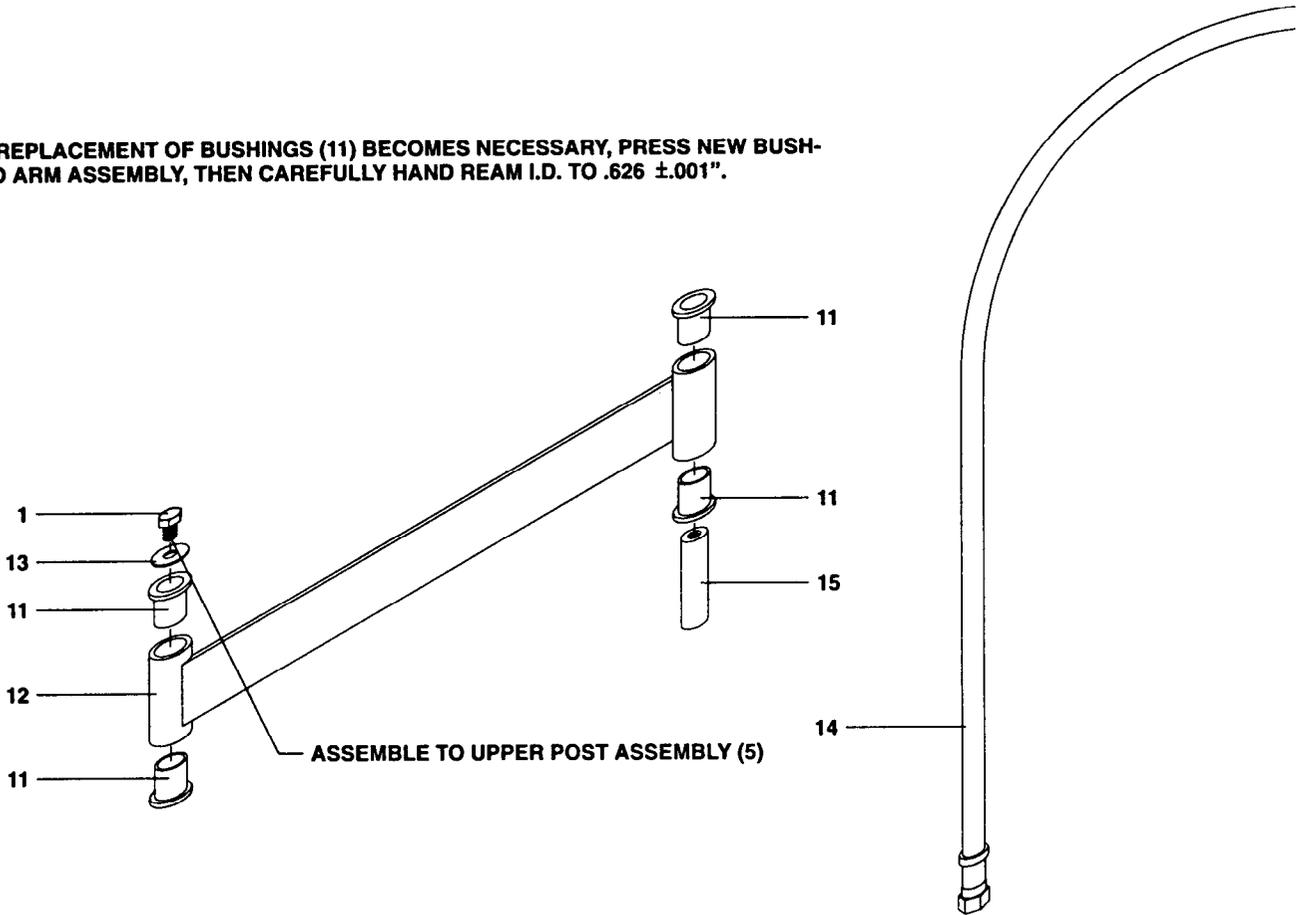
NOTE: All pipe thread connections should have tape or sealant applied (not furnished).

1. Bolt or clamp lower post assembly (3 or 47) to the bench top (or wall for wall mount models) with knob (4) oriented towards the tool operator. The ported manifold block located on the upper post assembly (5) should be oriented away from the tool operator.
2. Thread a 1/4" pipe nipple (8) into the left side of the manifold block. Thread the outlet port of the filter/regulator (7) on to the pipe nipple (8) and tighten. NOTE: It may be necessary to loosen the filter bowl to orient site gauges to clear the post when tightening.
3. Thread a 1/4" pipe nipple (8) into the right side port of the manifold block. Thread the inlet port of the lubricator (9) on to the pipe nipple (8) and tighten. NOTE: It may be necessary to loosen the lubricator bowl to orient site gauges to clear the post when tightening. Thread 90° fitting (10) into the outlet port of the lubricator and tighten. Fill lubricator (see instructions included with lubricator).

**WARNING: WHEN ATTACHING AIR LINE TO WORKSTATION, THE ARM COULD RAISE QUICKLY, CAUSING INJURY.**

**CAUTION: BE SURE TOOL IS ASSEMBLED TO WORKSTATION BEFORE AIR LINE IS ATTACHED.**

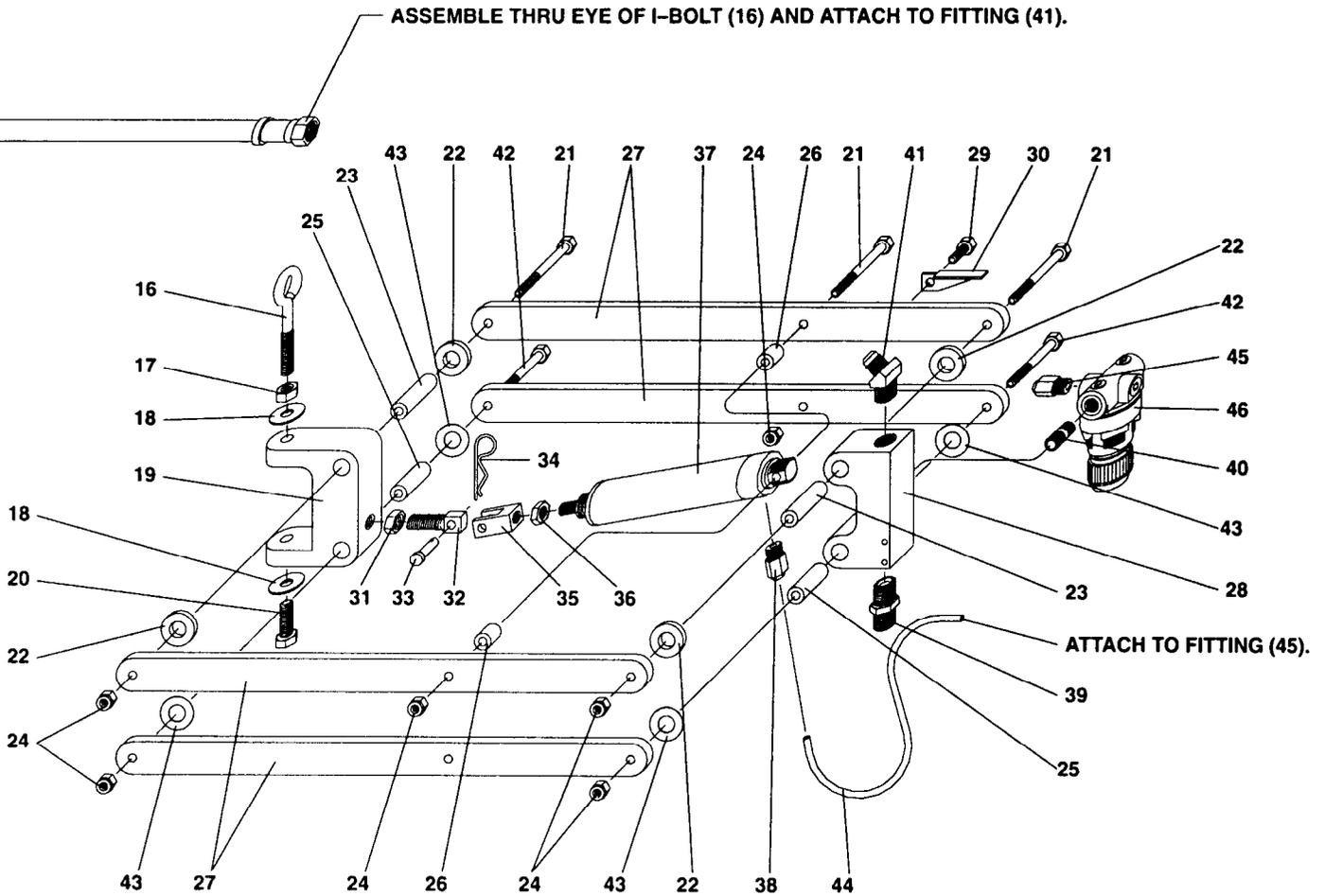
**NOTE: IF REPLACEMENT OF BUSHINGS (11) BECOMES NECESSARY, PRESS NEW BUSHINGS INTO ARM ASSEMBLY, THEN CAREFULLY HAND REAM I.D. TO  $.626 \pm .001"$ .**



PART NUMBER FOR ORDERING

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1	Bolt (2 req'd)	49068-2	25	Bushing (2 req'd)	49054-2
2	Washer	49065	26	Spacer (2 req'd)	49067
3	Lower post Assembly (includes item 4)	49081	27	Link Arm (4 req'd)	49055
4	Knob	48715-1	28	Bracket	49052
5	Upper Post Assembly	49084	29	Bolt	49069-4
6	Gauge	100067	30	Stop Clip	49057
7	Filter/Regulator	P29221-110	31	Nut	49076
8	Pipe Nipple (1 or 3 req'd)	1950	32	Latch Bolt	49070
9	Lubricator	L26221-110	33	Pin	49079
10	90° Fitting	49072	34	Hair Pin	48708-1
11	Bushing (4 req'd)	48743-1	35	Bracket	49077
12	Swing Arm Assembly (includes item 11)	49083	36	Jam Nut	49074
13	Washer	49064	37	Air Cylinder	49080
14	Hose Assembly	49092	38	Fitting	48765-1
15	Bushing	49056	39	Pipe Nipple	1950
16	I-Bolt	49071	40	Fitting	49875
17	Nut	49075	41	45° Fitting	49078
18	Washer (2 req'd)	49064	42	Bolt (2 req'd)	49069-2
19	Bracket	49053	43	Washer (4 req'd)	49066-3
20	Bolt	49068-3		Arm Assembly (includes items 15 thru 43)	49082
21	Bolt (3 req'd)	49069-3	44	Tubing	48766-2
22	Washer (4 req'd)	49066-2	45	Fitting	48765-1
23	Bushing (2 req'd)	49054-3	46	Regulator	49522
24	Lock Nut (6 req'd)	49073	47	Lower Post Assembly (includes item 4)	49378



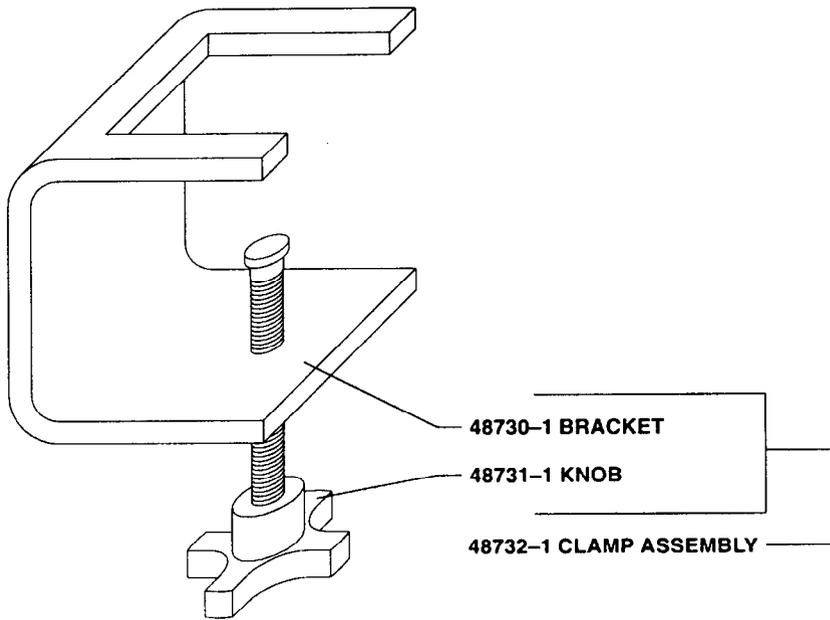
**NOT SHOWN**  
49509 WARNING LABEL (2 REQ'D)

## WORKSTATION ASSEMBLY INSTRUCTIONS

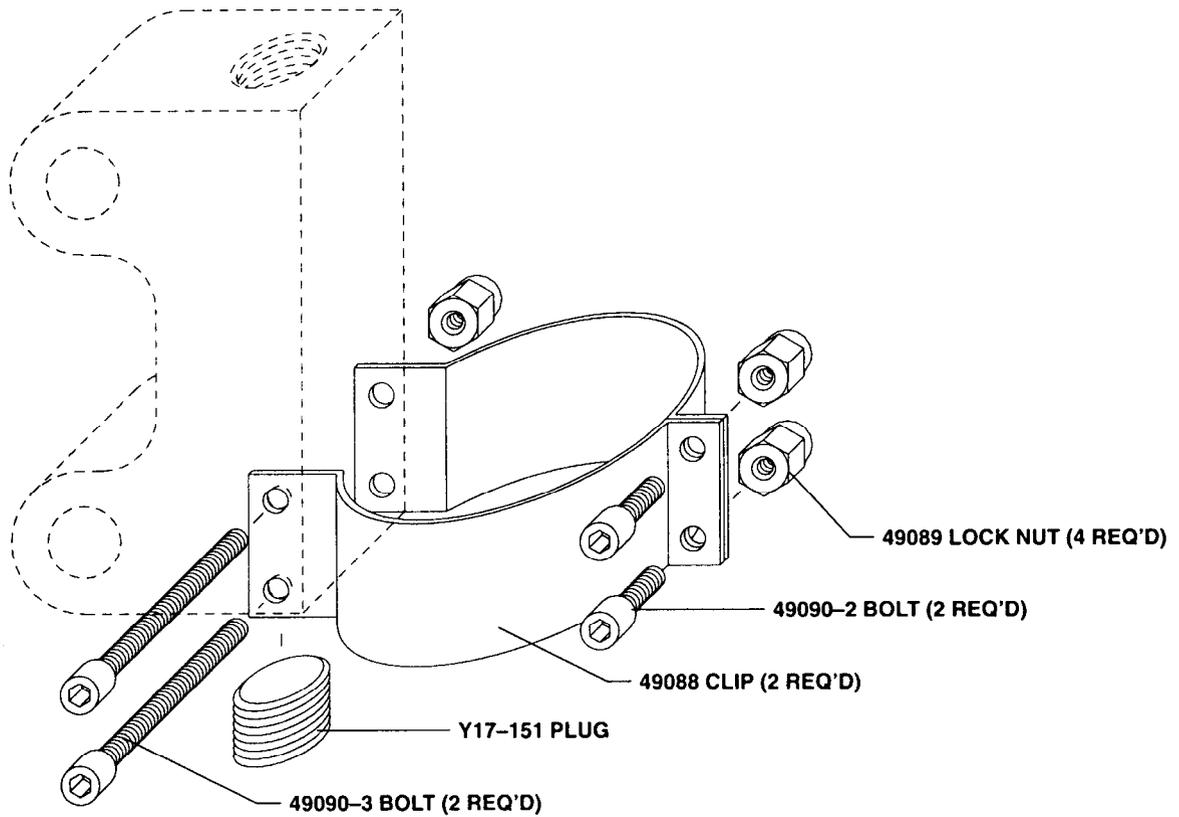
4. Remove bolt (1) and washer (13) from top of post assembly. Position connecting joint of swing arm (12) on top of post assembly (be sure ARO logo is not upside down) and secure with washer (13) and bolt (1).
5. Remove eye bolt (16) and bolt (20) with washer (18) from the bushing (15) in the opposite connecting joint of the swing arm. Assemble the parallel arm assembly to the swing arm by positioning the swing arm joint into the bracket (19) at the end of the parallel arm. Fasten together using washer (18), nut (17) and eye bolt (16) on the top and washer (18) and bolt (20) on the bottom. NOTE: Orient the opening in the eye bolt (16) so it is in line with the parallel arm assembly, then tighten nut (17).
6. Thread a 1/8" pipe nipple (40) into the port on the right side of the tool mounting bracket (28). Thread the air inlet port of the regulator (46) on to the pipe nipple (40) and tighten so the adjustment knob of the regulator is at the bottom. Thread fitting (45) into the rear gauge port of the regulator and tighten. Thread 1/8" pipe plugs into the front regulator port and the air outlet port of regulator (46) and tighten.
7. Insert a 5/32" plastic tubing (44) into the fittings (38 and 45) located at the rear of the regulator (46) and underneath the air cylinder (37) in the parallel arm assembly. NOTE: To avoid kinking the tubing during operation of the workstation, the tubing should run between the bottom two link arms (27) to the regulator.
8. Tighten the 45° fitting (41) on the top port of the tool mounting bracket (28). Assemble hose assembly (14) thru eye bolt (16) and connect hose fittings to 45° fitting (41) and to the 90° fitting (10) on the lubricator (9) (or on the manifold block on the post assembly).
9. Attach desired air tool to the outlet port on the bottom of tool mounting bracket (28) using 1/4" pipe nipple (39) and tighten.
10. Connect air supply to the inlet port on the filter/regulator (or manifold block). A quick disconnect coupler system is recommended for safety.

It is recommended that the parts lists for the filter/regulator and lubricator units be saved in a plastic bag for future service parts reference.

# OPTIONAL EQUIPMENT



## 49380 TOOL HOLDER ASSEMBLY







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