



**98-016 REV B
2 May, 2007**

RETROFIT INSTRUCTIONS FOR CO SCRUBBER IN M701

I. SCOPE:

Installation procedure for installing a CO scrubber into M701 zero air modules.

II. TOOLS REQUIRED:

- A. Phillips head screwdriver
- B. One 9/16" wrench
- C. One 7/16" wrench

III. PARTS:

- A. API part number KIT49B

IV. PROCEDURE:

- A. Read instructions completely before assembly.
- B. Unplug the power cord from the M701.
- C. Remove top cover.
- D. Lower front panel. Disconnect and discard the nuts and tubing from both the Purifil and the charcoal canisters (both top and bottom).
- E. Orient bottom fittings of both canisters to face forward toward the front panel (see installation drawing).
- F. Orient top fittings on the canisters as shown in the installation drawing.
- G. Connect tubing #4 to the bottom of both canisters.
- H. Connect tubing #1 between the regulator output and the top of the Purifil canister.
- I. Mount the CO scrubber to the chassis using two #8-32x1" screws and two #8 star washers (see drawing for location).
- J. Connect tubing #2 between the top of the charcoal canister and the CO scrubber.
- K. Connect tubing #3 between the CO scrubber and the "Zero Air Out" filter.
- L. Securely fasten the tubing to the chassis using three 1/4" nylon cable clamps with #8-32x1/2" screws and #8 star washers.
- M. Connect the CO scrubber heater cable to the connector on the PCB labeled CO CONV (J5).
- N. To complete the installation, unit must be leaked checked
- O. Install a 1/4" cap to the outlet fitting on the rear panel.

- P. Turn on the M701 and adjust the regulator so that the pressure rises to at least 30 PSI. After a minute or so the surge tank should reach maximum pressure, and the pump should turn off. When this occurs turn the instrument off
- Q. Over a period of 5 minutes you should not see more than a 2-PSI loss on the front panel. In addition, all tube and pipe fittings affected by the installation should be leak checked with a soap bubble solution.

CAUTION: CO scrubber will remain very hot for some time after the unit is turned off!

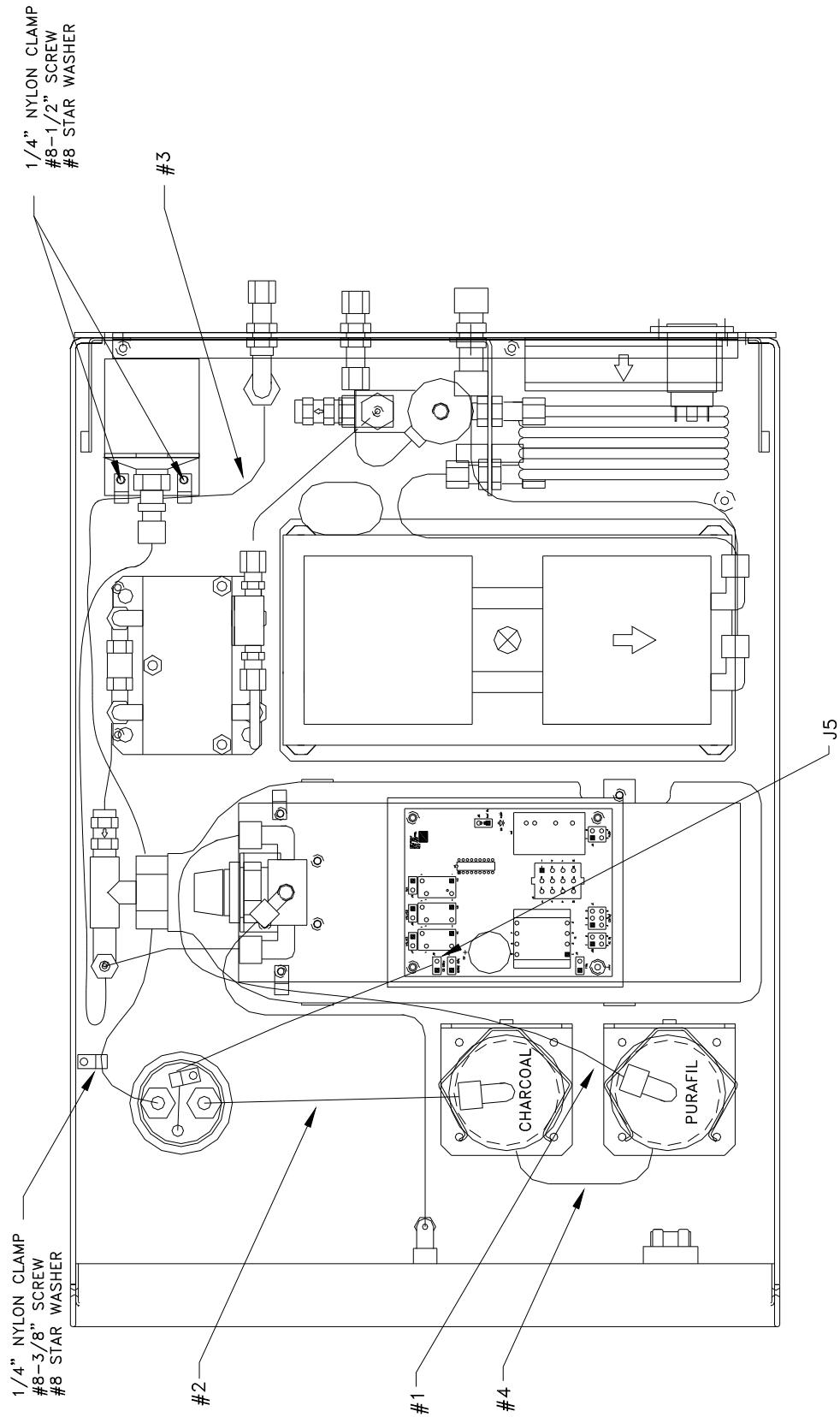
Parts List for CO Scrubber Field Retrofit

Part Number	Description	Qty
015850000	Option, CO Scrubber, M701	1
SN0000002	#8-32x1" Screw	2
SN0000011	#8-32x3/8" Screw	1
SN0000012	#8-32x1/2" Screw	2
SN0000022	#8 Star Washer	5
HW0000060	Cable Clamp 1/4" Nylon	3
FT0000045	Ferrule, Front, B, 1/4"	8
FT0000046	Ferrule, Rear, B, 1/4"	8
FT0000062	Nut, B, 1/4"	8
TU0000018	FEP Teflon Tubing 1/4" OD, 5/32" ID	≈80"

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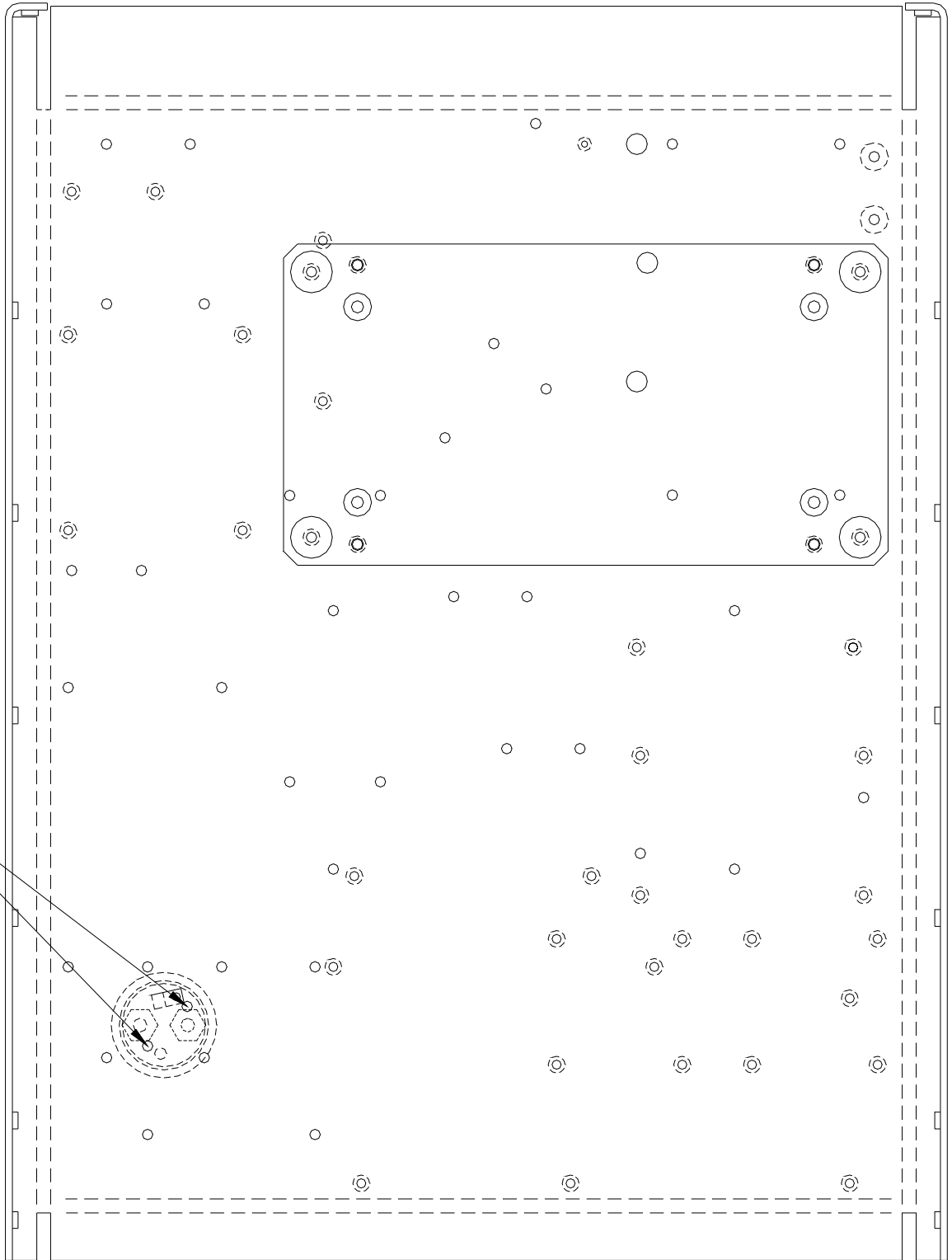
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#8-32-1" SCREW
#8 STAR WASHER



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