

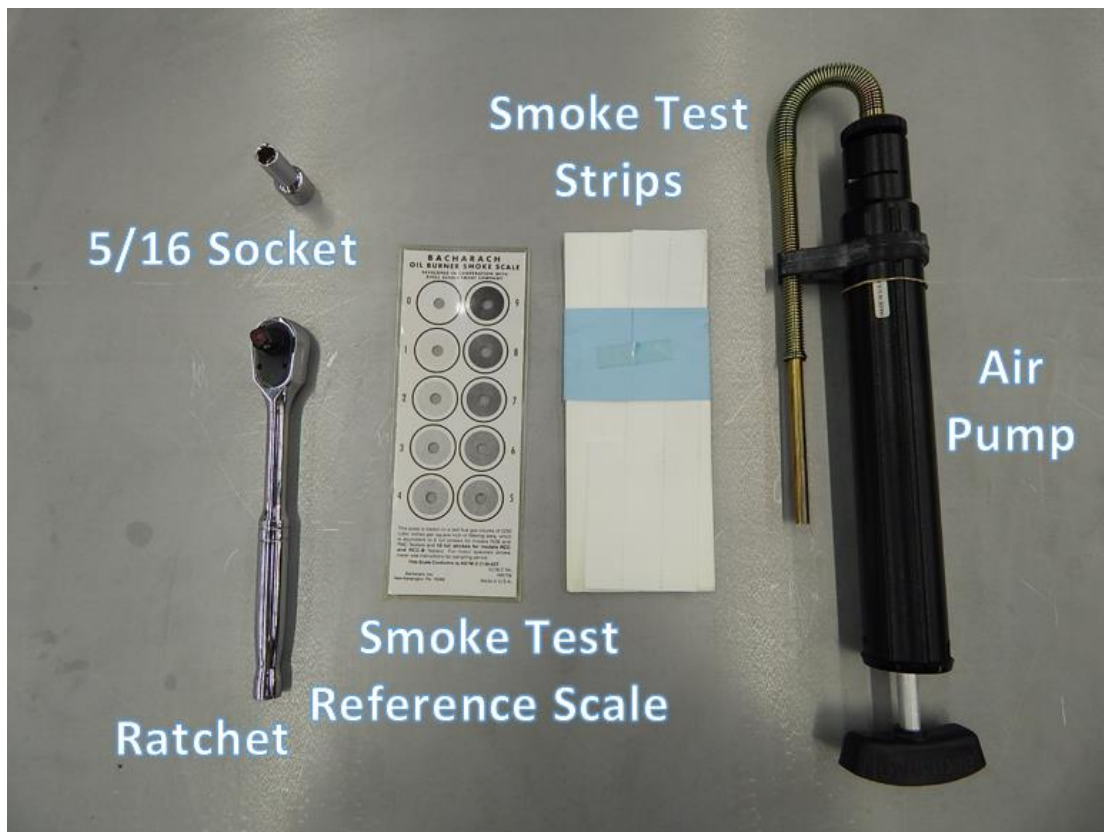
**FIELD INSTALLATION INSTRUCTIONS**

TITLE:	Smoke Test and Adjust Air Settings
NAME:	FII-013
ISSUE DATE:	27 June 2013
REVISION:	2

**PURPOSE:**

The intention of this FII is to demonstrate the procedure to perform a smoke test and to adjust the air settings using both the air shutter and the air band.

**TOOLS REQUIRED:**



From left to right: 5/6 Socket, Ratchet, Smoke Test Reference Scale, Smoke Test Strips, Air Pump

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**PROCEDURE:**



Figure 1: Toggle switch used to start unit



Figure 2: Test strip and air pump\



Figure 3: Smoke scale and test strips

**Step 1:** Start the unit using the toggle switch found on the side of the burner. See Figure 1 for details.

**Step 2:** Insert smoke test strip into air pump slot. See Figure 2 for example on how to do so.

**Step 3:** Insert the air pump nozzle into the flue stack through a hole along the surface, and pump it exactly ten times.

**Step 4:** Remove the test strip and compare the discoloration on the paper with the reference scale. See Figure 3 for an example of the smoke scale and test strips used.

**NOTE:** If your resulting paper discoloration is above 1 on the smoke scale, then air adjustments must be made.

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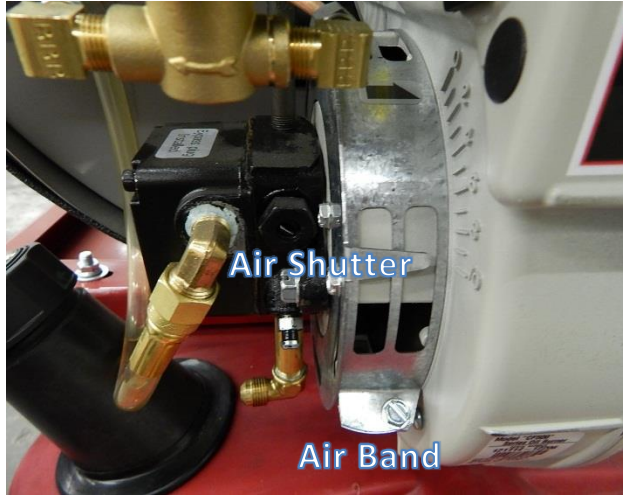


Figure 4: Air shutter and air band fastener locations



Figure 5: Scale for air adjustments

**Step 5:** Using a wrench, loosen the locking fastener on the side (shutter) or ring (band). See Figure 1 for a view of the two fastener locations.

**Step 6:** With the fastener now loose, we can begin rotating the tab (for the shutter) or the entire ring (for the band) to the desired setting. A scale on the side of the burner housing is used as a gauge. See Figure 2 for the gauge used to set the air shutter and band levels.

**Step 7:** Once you have set the air shutter or air band to the desired level, tighten the fastener you loosened earlier.



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Suggested Burner Settings						
Model	Burner	Nozzle	Pressure	Shutter	Band	Slide
OHV 200	CF 375	1.5 USGPH, 60°, SOLID	Bottom: 100 Top: 90	6	0	2
OHV 350-II	SF	1.5 USGPH, 60°, SOLID	Bottom: 125 Top: 115	1	1	3
OHV 500	SF	2.5 USGPH, 60°, SOLID	Bottom: 145 Top: 135	6	0	5
IDF 350	CF 375	1.75 USGPH, 45°, SOLID	Bottom: 125 Top: 115	10	6	4
IDF 350- II	CF 500	1.75 USGPH, 45°, SOLID	Bottom: 125 Top: 115	4	0	4
IDF 500	CF 800	2.25 USGPH, 60°, SOLID	Bottom: 140 Top: 130	10	0	6