ENGINEERING BULLETIN

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BULLETIN NO. 3

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SUBJECT: ROTATION OF CRV-A SERIES BURNERS

Problem: CO-RAY-VAC burners may tip or rotate after they are in use even though couplings are tight when installed.

Reason for Problem: The weight of the side mounted filter causes some burners to tip. In the past we believe our rigid bundy tube helped to prevent this. With the advent of our flexible gas lines this restraint has been eliminated.

During installation the coupling between the radiant tube and the combustion chamber is tightened and the burner remains upright. When the burners fire, the steel tubing material heats more and expands more than the coupling material. Even though this differential expansion is small it can result in stretching the coupling material beyond its yield point. When this happens the material does not go back to its original length as it cools. As a result the coupling could loosen causing the burners to tip.

Solutions: Retrofit in Field - Use 3/8" sheet metal screws to secure combustion chamber to coupling. See Sketch F-1562E.

New Production - (effective July 1, 1981 or sooner) Combustion chamber clamp assembly will be made available from factory. This will be described in a subsequent Engineering Bulletin.

John P Beverly

John P. Beverly
Vice President of Engineering

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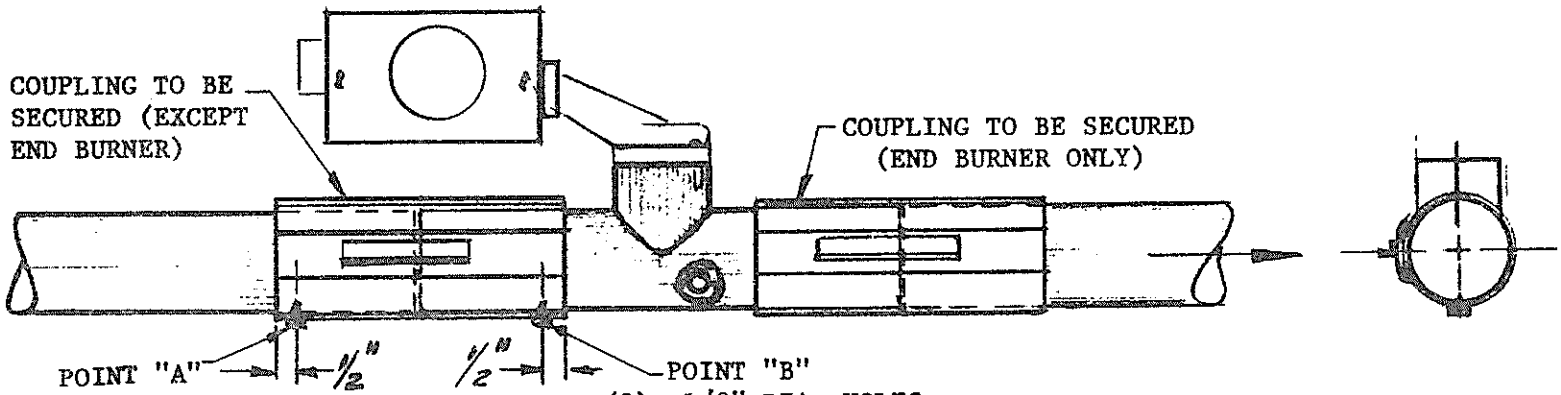
Enclosure

METHOD OF PREVENTING BURNER ROTATION

Usage: Recommended with flexible metal gas connector P/N 91410600.
Optional with semi rigid gas connector P/N 01361500.



(2) 1/8" DIA. HOLES

(2) #8 x 3/8" LG. SHEET METAL SCREWS (STAINLESS STEEL PREFERRED)

PROCEDURE:

1. WITH COUPLING IN PLACE, DRILL TWO 1/8" DIA. HOLES AT POINTS "A" & "B" TO PENETRATE BOTH COUPLING AND STEEL TUBE WALL.

2. TO REDUCE EXPOSURE OF SCREWS TO HIGH TEMPERATURE, SECURE UPSTREAM BURNER AS SHOWN. EXCEPTION: FOR THE END BURNER, THE DOWNSTREAM COUPLING MUST BE SECURED.

3. USE SHEET METAL SCREWS (3/8" MAX. LENGTH) TO SECURE COUPLING TO THE TUBE WALL. STAINLESS STEEL SHEET METAL SCREWS ARE PREFERRED TO AVOID HIGH TEMPERATURE CORROSION.