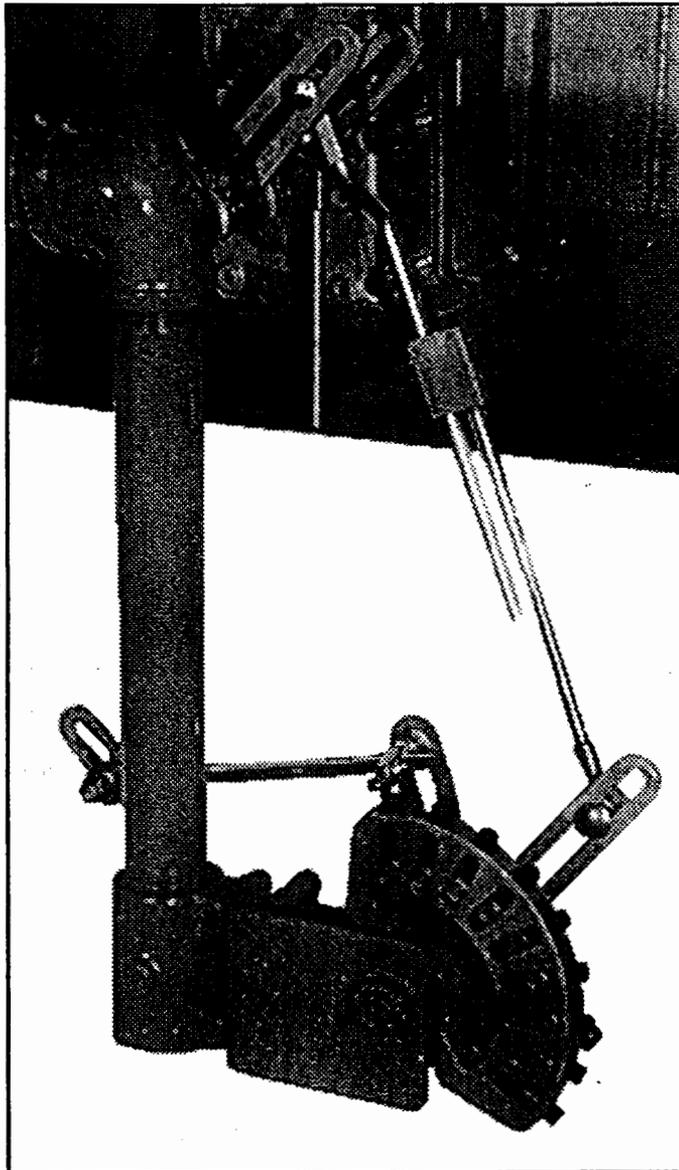
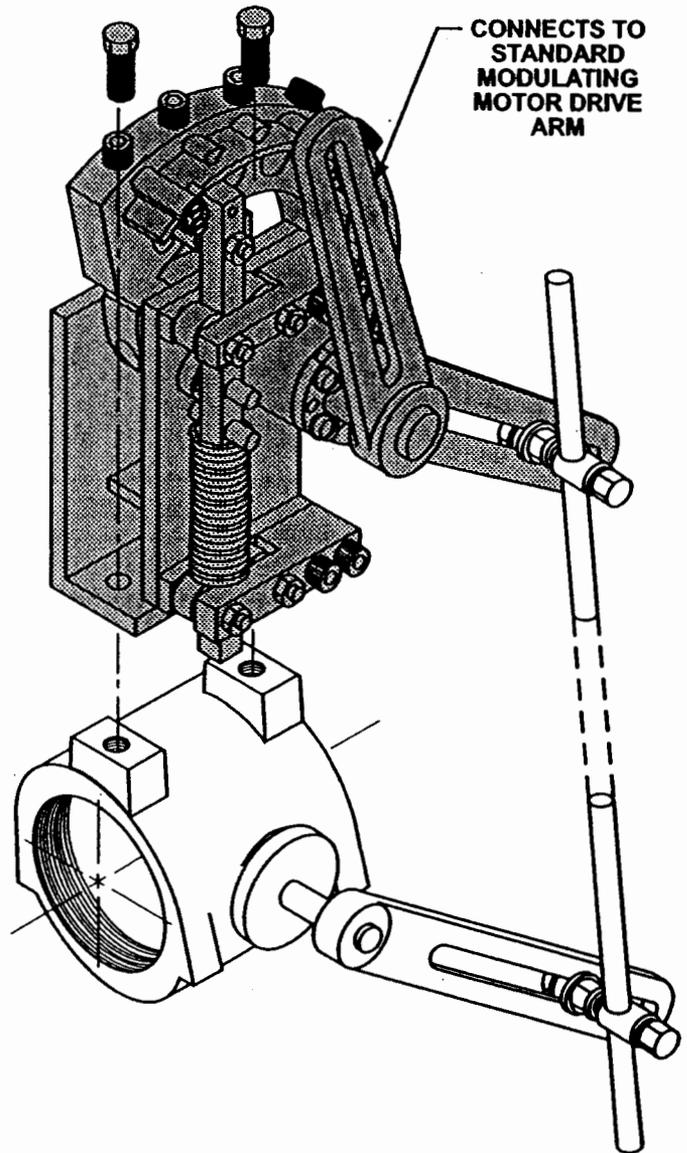


SPECIFICATION DATA

STAND-A-LONE CHARACTERIZED LINKAGE USED WITH E2 - GAS SYSTEMS



TYPICAL STAND-A-LONE CHARACTERIZED LINKAGE MOUNTED ON A S8.1-G BURNER.



APPLICATION

The stand-a-lone characterized linkage is used in retrofitting burners in the field with E2 gas systems. Easily installed with two hex screws on 1" to 3" gas butterfly valves.

DESCRIPTION

Characterized linkage provides the mechanical means to fine tune the fuel input (flow) to the burner in order to achieve maximum fuel efficiency and reduce harmful stack emissions.

HOW IT WORKS

There are nine (9) adjustment screws which control the contour of a flexible metal track upon which a roller and plunger mechanism travel. This mechanism in turn controls the linkage to the fuel valve, providing the precise amount of fuel to the burner as it modulates to meet load demand. The objective is to shape the flexible metal track into what amounts to a "combustion efficiency profile".

STAND-A-LONE ADJUSTMENT OF CHARACTERIZED LINKAGE

ADJUSTMENT PROCEDURE

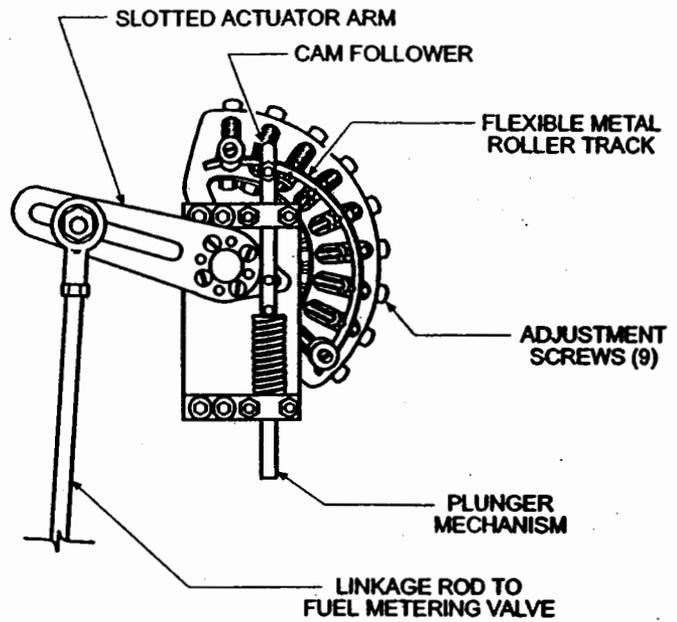
Adjustment of the stand-a-lone characterized linkage should only be done after the burner has been successfully started-up and taken from low-fire to high-fire several times. Any necessary adjustments to the fuel control linkages during start-up should be done at a ball joint connector or linkage rod coupling. The boiler, or other appliance being fired, should be warm.

Generally, combustion readings should be taken at each of the nine (9) adjustment screws in the quadrant. AS A STARTING POINT, low and high fire flue gas composition should be in the tabulated range shown below:

CAUTION

There should be no more than 3/16" variation between adjacent screws.

CHARACTERIZED LINKAGE (typical)



FUEL	LOW FIRE		HIGH FIRE	
	CO ₂	O ₂	CO ₂	O ₂
Natural gas	7 1/2 - 9	8 1/2 - 5	9 - 10 1/2	5 - 2 1/2

The final fuel/air ratio curve must be determined on the basis of clean combustion at all firing rates. Sufficient combustion air must be available to keep the CO generated by a gas fire below 50 PPM at all rates.

DIMENSIONS

