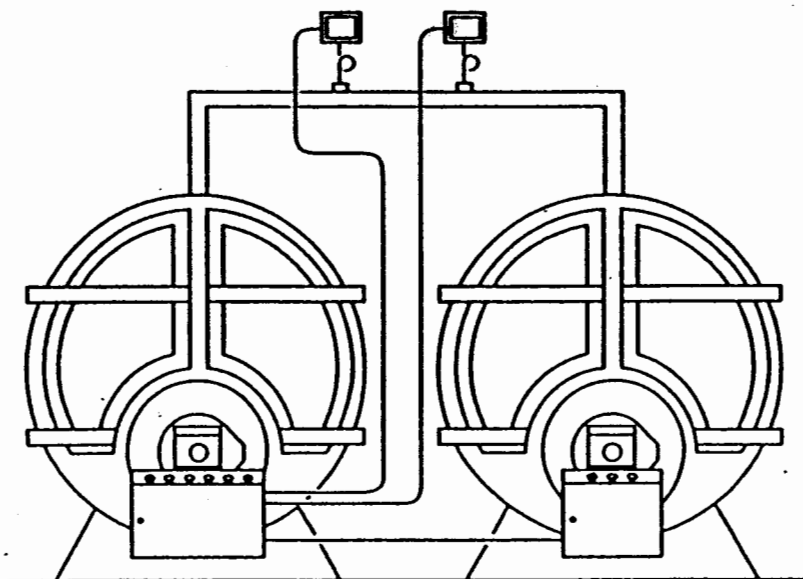


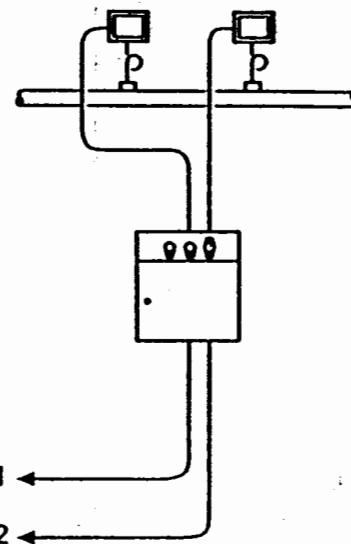
**MANUALLY SELECTABLE or ALTERNATING**

**Model LL FOR STEAM or HOT WATER**

Two Hi-Lo Pressure Sensors for Steam or Two Hi-Lo Temperature Sensors for Hot Water  
(See Manufacturer's Instructions for Mounting Limiting Devices)



CONTAINED IN BURNER CABINET



CONTAINED IN REMOTE CABINET

**DESCRIPTION**

The Gordon-Piatt Model LL is an economical two-boiler lead-lag control system operating on inputs from adjustable pressure or temperature controller mounted in the steam or water header. One controller is set to sense the desired high limit and the other, the low limit. The LL system controls burner firing to meet heat demand between these limits. The lead-lag control can be applied to new or existing steam or hot water boiler installations, regardless of fuel or flame safeguard being used.

**WARNING**

The above described controllers must be separate and apart from other boiler safety limit controls.

There are two versions of the control available. Both versions provide a burner selector switch so that either boiler can be manually selected as the lead unit. Signal lights are provided for each boiler to indicate a call for operation. If it is desired to have the boilers automatically alternate between which one leads and which one lags, then an alternating relay is added to the system.

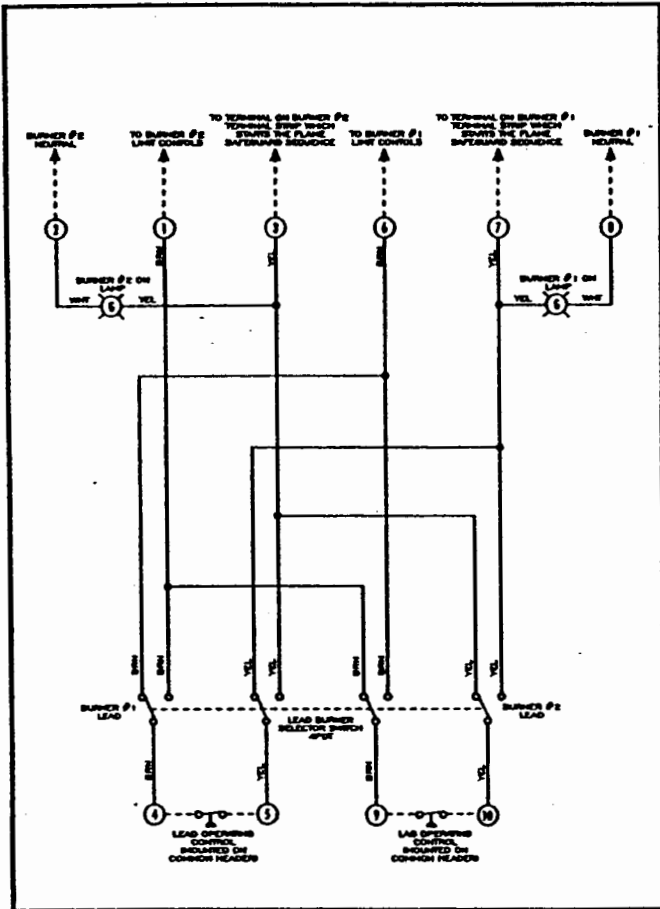
The control can be included as an integral part of the burner control cabinet when space is available (or provided for on new burners) or, it can be provided in a self-contained cabinet for remote mounting.

**OPERATION**

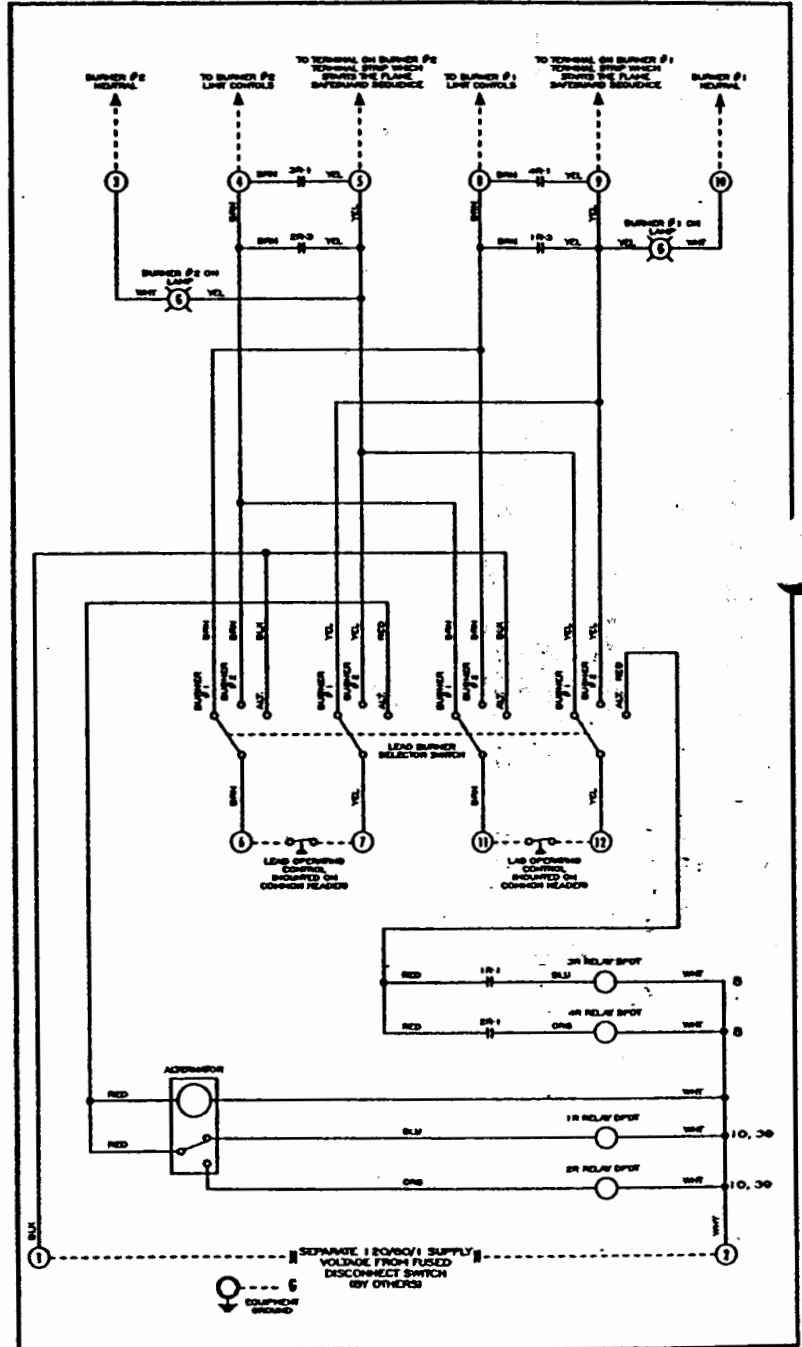
- **Burner Selector Switch Position No. 1** - The Number 1 boiler is the lead boiler and will fire first. If Number 1 should fail, or cannot carry the load, then the Number 2 boiler will come on as the lag boiler when the second header controller senses a drop in pressure or temperature.
- **Burner Selector Switch Position No. 2** - The Number 2 boiler is now the lead boiler and will fire first. If Number 2 should fail, or cannot carry the load, then the Number 1 boiler will come on as the lag boiler when the second header controller senses a drop in pressure or temperature.
- **Burner Selector Switch Alternating Position** - Boilers are alternated after each firing, from lead to lag, and lag to lead. Should the lead boiler fail or not be able to carry the load, then the lag boiler will come on when the second header controller senses a drop in pressure or temperature. Both burners will now fire in unison until the second header controller is satisfied, then the lag boiler will shut down and the lead boiler will continue firing to sustain the load.

# MODEL DESIGNATIONS

Model Number	Description
LL-2-S	Lead-Lag, 2-Steam Boilers, Integral w/Burner Cabinet
LL-2-W	Lead-Lag, 2-Hot Water Boilers, Integral w/Burner Cabinet
LLA-2-S	Lead-Lag (Alternating), 2-Steam Boilers, Integral w/Burner Cabinet
LLA-2-W	Lead-Lag (Alternating), 2-Hot Water Boilers, Integral w/Burner Cabinet
LLR-2-S	Lead-Lag, 2-Steam Boilers, w/Remote Cabinet
LLR-2-W	Lead-Lag, 2-Hot Water Boilers, w/Remote Cabinet
LLRA-2-S	Lead-Lag (Alternating), 2-Steam Boilers, w/Remote Cabinet
LLRA-2-W	Lead-Lag (Alternating), 2-Hot Water Boilers, w/Remote Cabinet



**WIRING DIAGRAM FOR LLR-2-S or W  
LEAD-LAG CONTROL SYSTEM**



**WIRING DIAGRAM FOR LLRA-2-S or W  
LEAD-LAG CONTROL SYSTEM**