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24SP200 SAFETY INTERLOCK SYSTEM (P/N 950-2420)

WARNING

(For Millivolt and 24 Volt Control Systems only)

This Safety Interlock System may be used on conventional chimney or Power Vented appliances equipped with a draft hood, draft diverter or draft control.

PURPOSE

To provide a means for appliance shut-down in the event of flue blockage or down drafts.

OPERATION

The Spill Switch circuits are “normally closed” and will not affect normal appliance operation. When concentrated spillage of combustion gases occurs from the draft hood, diverter or barometric control, the Spill Switch circuit will open preventing burner operation.

PARTS LIST

QUANTITY	DESCRIPTION
(2)	Spill Switches with manual reset, 200° F set point
(1)	Wire routing packet
(1)	8” jumper wire
(1)	6’ 16/2 jacketed cable

INSTALLATION

- Shut off fuel supply to the appliance.
- Attach Spill Switches to draft hood (A1), diverter (A2) or barometric control (A3), see respective diagram.

IMPORTANT:

Sensing area on underside of Spillage Switch should not come in direct contact with metal surfaces. Sensing Switches should be mounted so they will sample temperature of gas spilling from vent or chimney, not temperature of metal surface.

- Attach 8” jumper wire to inside terminals of draft spillage sensing switches.
- Attach leads of jacketed cable to outside terminals of spillage switches.

5a. WATER HEATERS:

Millivolt water heaters require the Tjernlund Model JA-1 (P/N 950-0470), Thermocouple Junction Adapter (ordered separately). Connect ends of six foot cable to spade connections on Thermocouple Adapter, (See Diagram B1).

5b. FURNACES AND BOILERS:

Splice ends of six foot cable in a series circuit between the thermostat and gas valve or burner control, (See Diagram B2).

Using cable routing tabs from wire routing packet, attach 6’ cable to appliance maintaining a safe distance from hot surfaces, e.g. appliance vent pipe and hot water pipes.

DIAGRAM A1

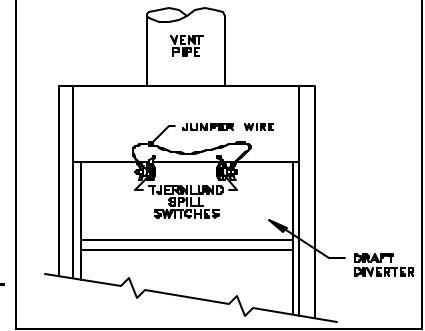


DIAGRAM A2

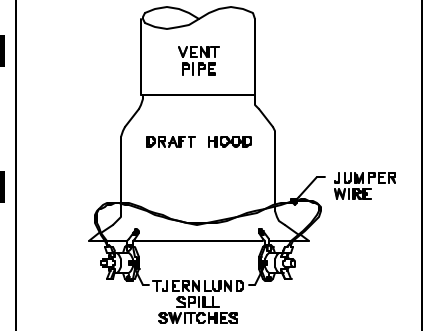


DIAGRAM A3

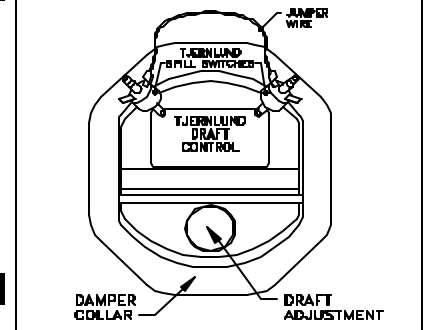


DIAGRAM B1

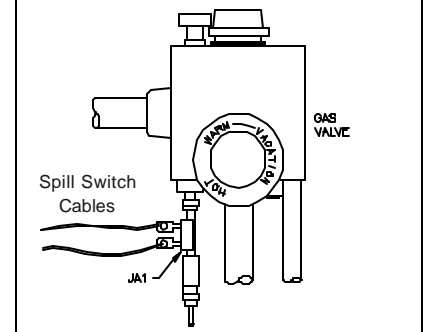
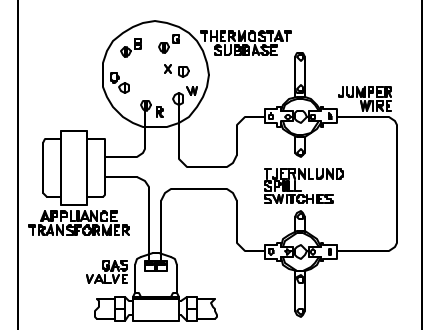


DIAGRAM B2

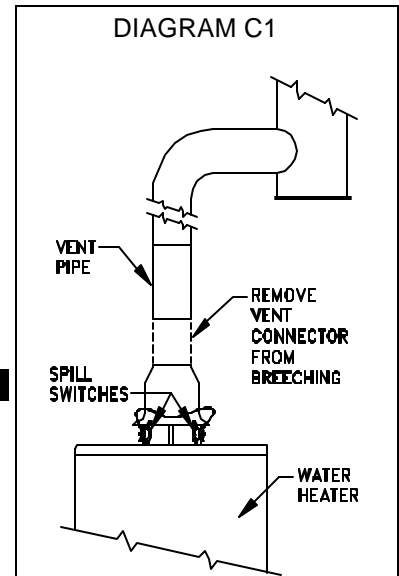


SAFETY INTERLOCK TEST

1. Turn on fuel supply to the appliance.
2. Remove vent connector from vent breaching at joint above Spillage Sensing Switches, (See Diagram C1).
3. Block vent connector with sheet metal or other non-combustible material, (See Diagram C2).
4. Adjust thermostat to call for heat allowing burner to fire.

RESULT: Spillage will emit from draft hood, diverter or barometric control. In less than two minutes, Spillage Sensing Switches will open, preventing thermostat signal from reaching burner. If Sensing Switches do not open, check for vent pipe leakage. Seal leaks and repeat steps 1-4.

5. Wait 2-3 Minutes...Push reset button on Spillage Sensing Switches.
6. Reconnect vent pipe to venting system. **CAUTION:** Metal vent pipe will be HOT!



COMBUSTION AIR TEST

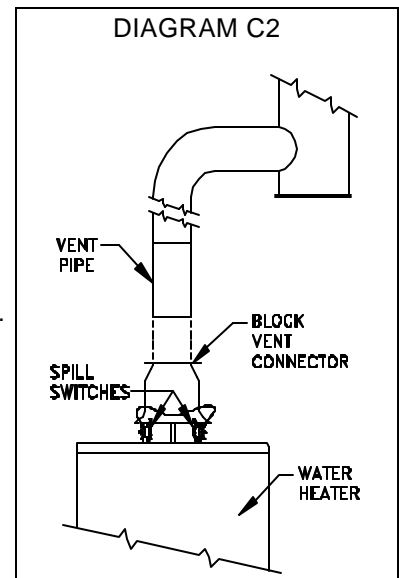
WARNING

The 24SP200 Flue Gas Spillage Sensing Kit is designed to alert the user to a potentially hazardous condition. It is not designed to, and cannot replace regular chimney inspection, appliance servicing and combustion testing. **DO NOT USE THE 24SP200 AS A SUBSTITUTE FOR PROFESSIONAL APPLIANCE MAINTENANCE.**

1. Close all doors and windows of the building. If appliance is installed in utility room or closet, close the entrance door to this room. Close fireplace dampers.
2. Turn on clothes dryer. Turn on all exhaust fans, such as range hoods, bathroom exhausts and whole house fans to maximum speeds. Do not operate a fan used strictly for summer exhausting.
3. Set thermostat for continuous operation on the appliance that the 24SP200 has been installed on.
4. Allow fans and appliance to operate for 5 minutes.
5. Tripping of the Spillage Sensing circuit during the 5 minute appliance operation indicates an unsafe operating condition. Check appliances for venting malfunction and check for adequate combustion air. Turn off fuel supply to appliance and **DO NOT OPERATE UNTIL UNSAFE VENTING CONDITION IS INVESTIGATED BY PROFESSIONAL CONTRACTOR OR UTILITY SERVICE PERSONNEL.**
6. Return all windows, doors and fans to their previous conditions of use.

NOTE:

For further assistance contact the Tjernlund Products, Inc. Customer Service Department at 1-800-255-4208. 7:30 AM-4:30 PM CST.



OWNERS INSTRUCTIONS
THESE INSTRUCTIONS MUST REMAIN WITH EQUIPMENT
DO NOT DESTROY