

INSTALLATION INSTRUCTIONS FOR #122 & #133
FORGES WITH ELECTRIC IGNITION.

WHEN PLACING THE FORGE IN THE DESIRED LOCATION, MAKE SURE THE BACK OF THE FORGE (BURNER SIDE) IS PLACED FAR ENOUGH AWAY FROM ANY WALL SO THE LID CAN SWING AWAY FROM THE TOP SLOT OF THE FORGE AND SPACE IS SUFFICIENT FOR SERVICING. ALLOW ENOUGH SPACE AT THE FRONT OF THE FORGE FOR THE OPERATOR TO PERFORM HIS DUTIES.

TO REMOVE EXHAUST GASES AND FUMES, USE A HOOD WITH AN EXHAUST FAN. THE HOOD SHOULD BE HIGH ENOUGH SO THAT IT DOES NOT INTERFERE WITH THE OPERATOR.

IF NECESSARY, PROTECT NEARBY WALLS AND CEILINGS FROM RADIANT HEAT BY USING INSULATION BOARD, ETC.

CONNECT 115 VOLT ELECTRICAL SOURCE TO THE BLACK AND WHITE LEADS EXTENDING FROM THE JUNCTION BOX AT THE FRONT OF THE FORGE.

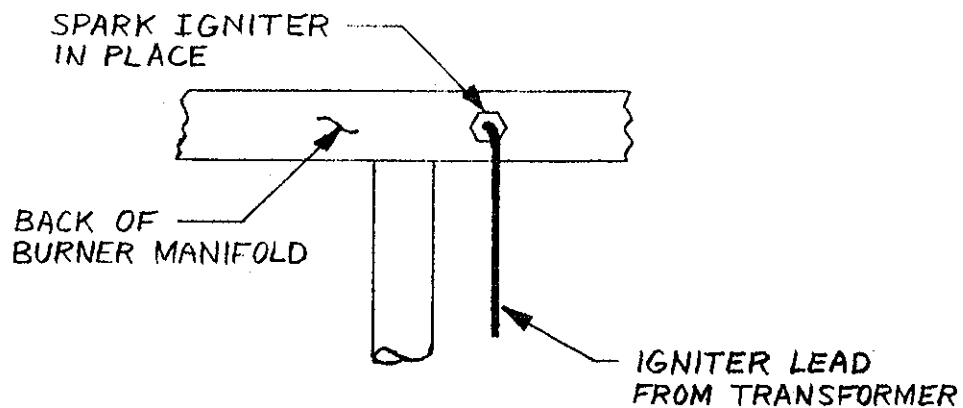
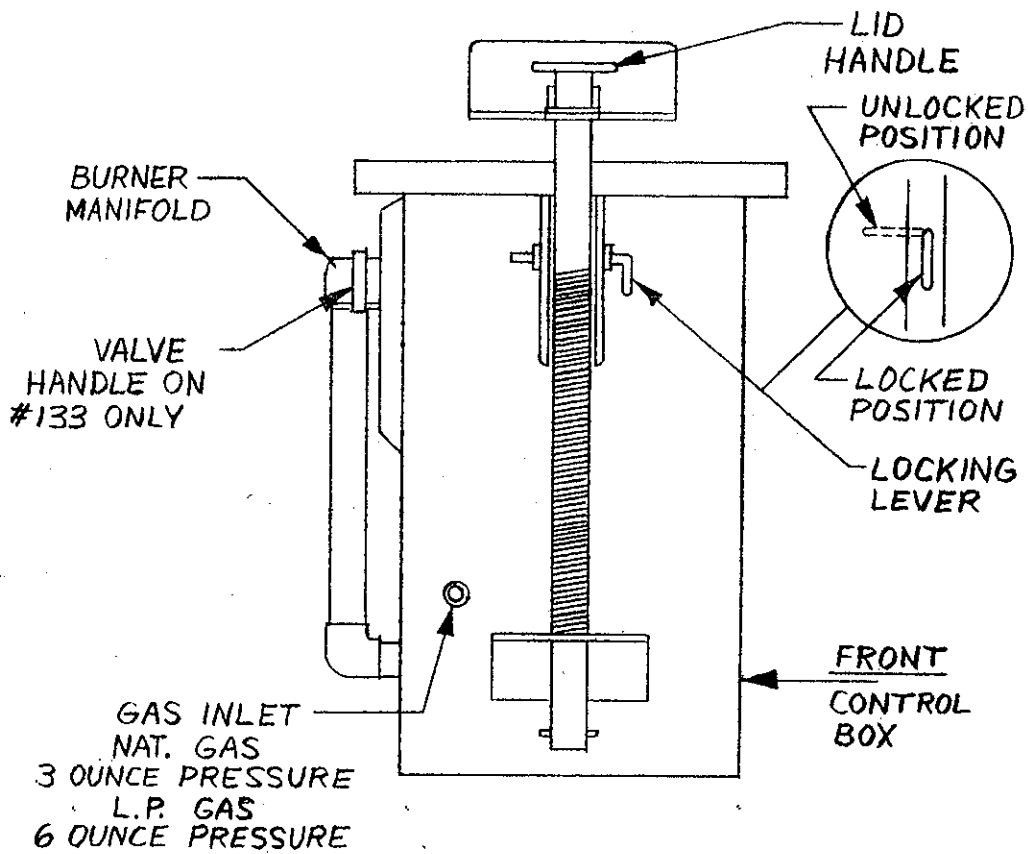
CONNECT GAS LINE TO GAS INLET PIPE. THE GAS PRESSURE SHOULD BE 2 to 3 OUNCES FOR NATURAL GAS AND 6 OUNCES FOR LP GAS. PRESSURE SHOULD BE CHECKED WHEN THE FORGE IS IN OPERATION AT A HIGH RATE.

INSTALL THE HANDLE ON THE LID. (SEE FORM 2210 TO RAISE OR LOWER THE LID, TURN THE LOCKING LEVER TO THE UN-LOCKED POSITION: ADJUST TO THE DESIRED HEIGHT, THEN RETURN LOCKING LEVER TO THE LOCKED POSITION. (SEE FORM NO. 280)

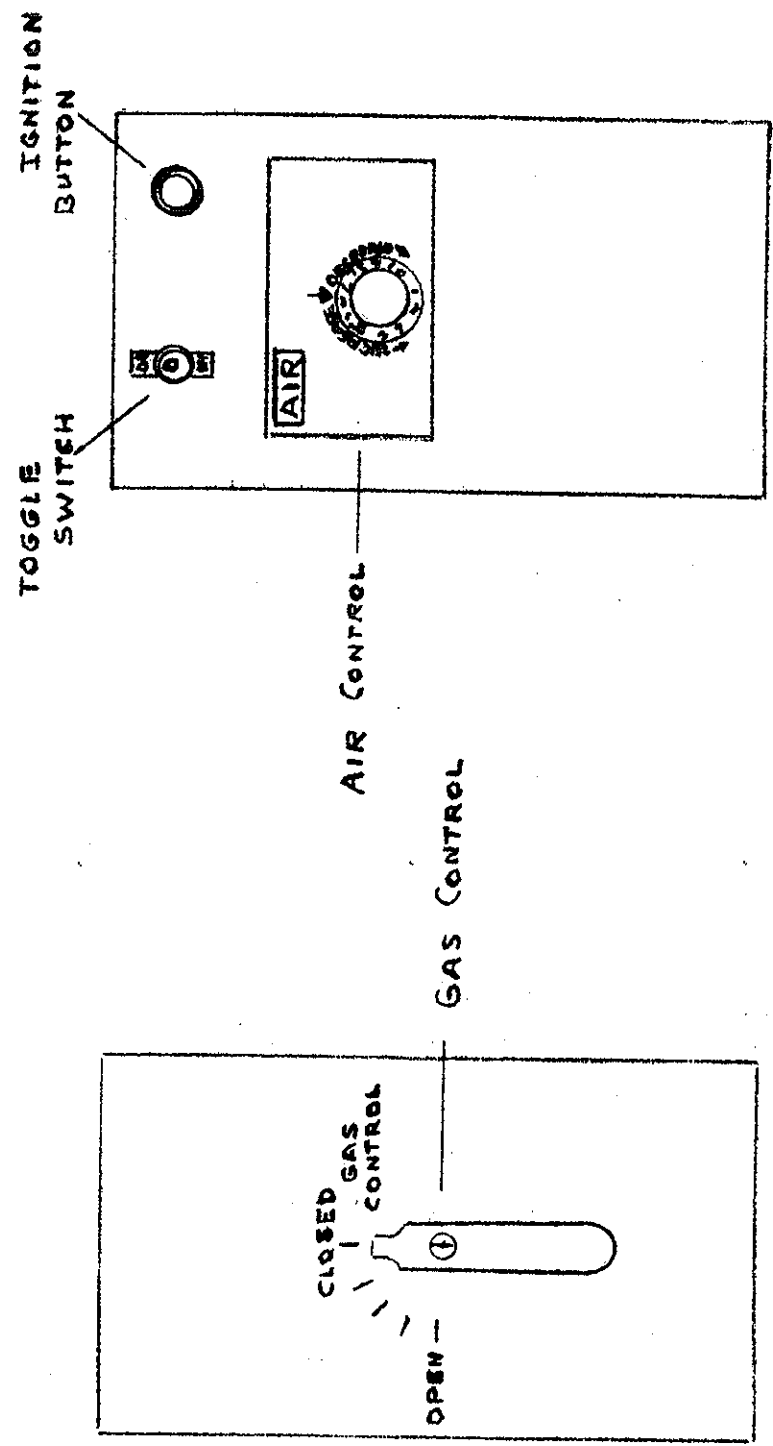
INSERT THE SPARK PLUG IGNITER IN THE OPENING IN THE BACK OF THE BURNER MANIFOLD AND TIGHTEN IN PLACE WITH A WRENCH. PUSH THE CONNECTOR OVER THE END OF THE SPARK PLUG.

SEE FORM FOR LIGHTING INSTRUCTIONS.

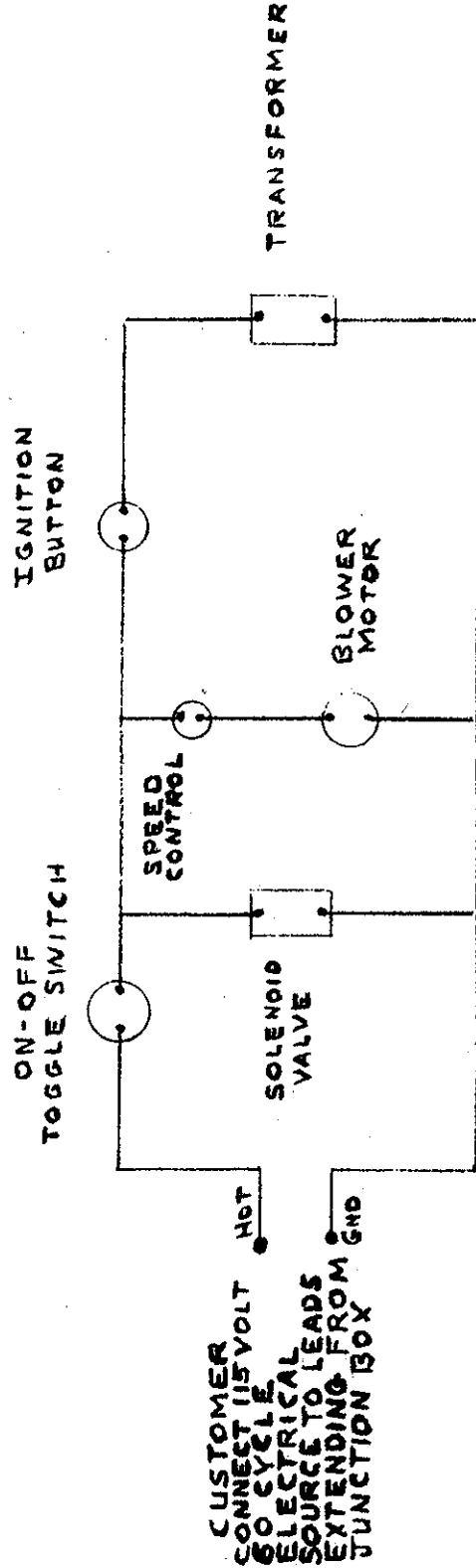
INSTALLATION DIAGRAM FOR #133-122
FORGE WITH ELECTRIC IGNITION

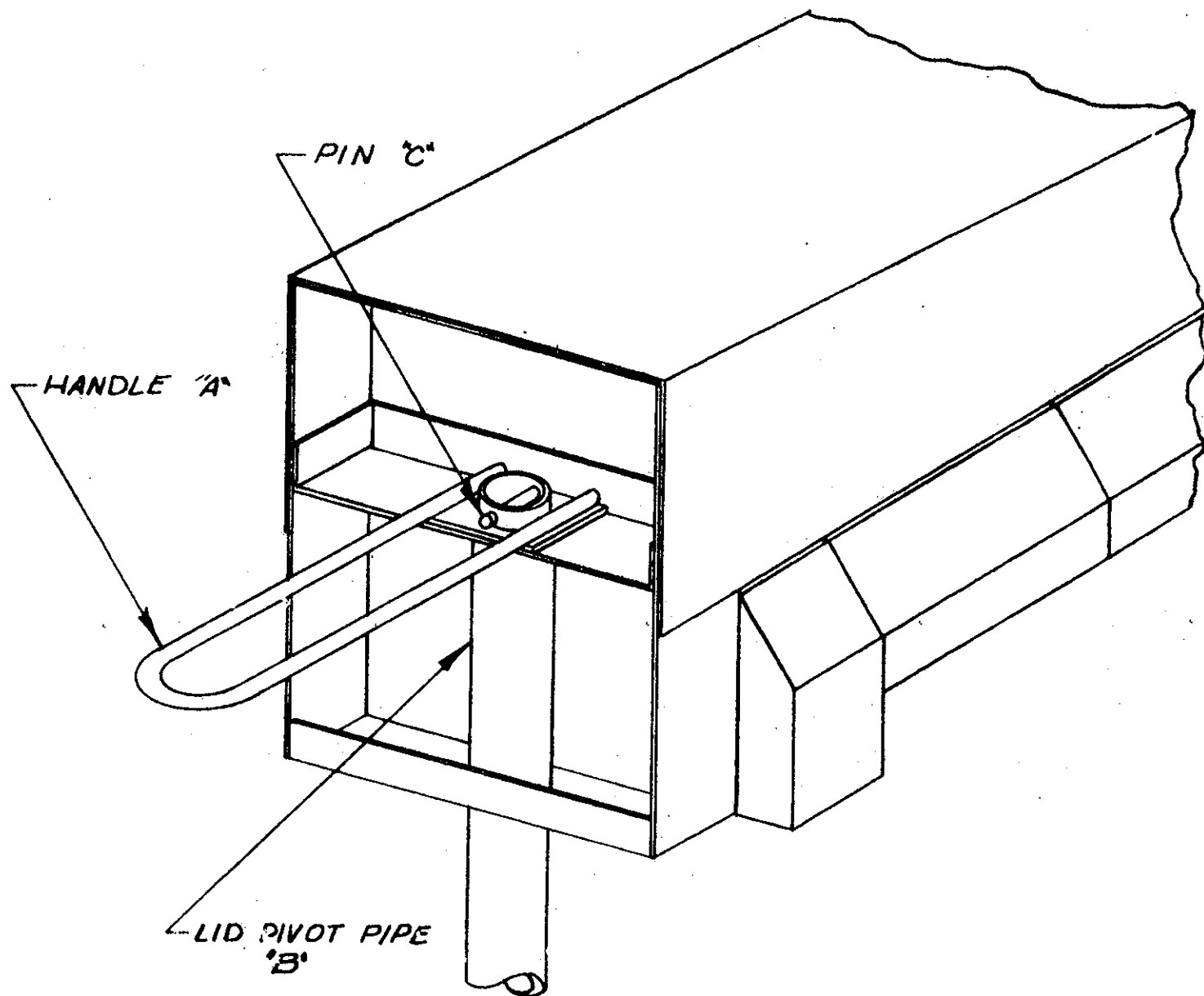


CONTROL PANELS FOR NO 122 FORCE WITH ELECTRIC IGNITION



WIRING DIAGRAM FOR No. 122 FORGE WITH ELECTRIC IGNITION



INSTALLING HANDLE ON *122 & *133 FORGE LIDS

1. PLACE HANDLE "A" PLATE SIDE DOWN, OVER TOP OF LID PIVOT PIPE "B".
2. DRIVE PIN "C" THROUGH DRILLED HOLES PROVIDED.

LIGHTING INSTRUCTIONS FOR #122 FORGE WITH
ELECTRIC IGNITION.

CONSULT FORM 881 WHILE READING THIS.

1. SWING THE LID TOWARD THE BACK SIDE OF THE FORGE SO THAT IT IS NOT OVER THE TOP SLOT.
2. SET THE AIR CONTROL KNOB TO NO. 6. MAKE SURE THE GAS CONTROL IS IN THE "CLOSED" POSITION.
3. FLIP THE TOGGLE SWITCH TO "ON". THE SOLENOID GAS VALVE WILL OPEN AND THE BLOWER MOTOR WILL RUN.
4. DEPRESS THE IGNITION BUTTON (IF THE ROOM IS NOT TOO NOISY, YOU WILL HEAR A "BUZZING" SOUND FROM THE SPARK IGNITER). SLOWLY, TURN THE GAS CONTROL TOWARD THE "OPEN" POSITION UNTIL THE BURNERS IGNITE. THE IGNITION BUTTON CAN NOW BE RELEASED.
5. ADJUST THE GAS CONTROL TO GIVE A SHARP TAIL OF FLAME THAT EXTENDS JUST ABOVE THE TOP OF THE FORGE. WORK CAN BE LAID ACROSS THE TOP OF THE FORGE IN THE FLAME. THE WORK RACK AT THE FRONT OF THE FORGE CAN BE SLID OUT TO SUPPORT THE WORK. THE LID SHOULD BE CENTERED OVER THE TOP SLOT.

TO INCREASE THE AMOUNT OF GAS, TURN THE GAS CONTROL TOWARD THE "OPEN" POSITION TO GET A HIGHER FLAME. THEN, TURN THE AIR CONTROL COUNTER-CLOCKWISE TO OBTAIN THE SHARP TAIL OF FLAME. REPEAT THESE STEPS UNTIL THE DESIRED OR MAXIMUM GAS INPUT IS REACHED.

TO DECREASE THE AMOUNT OF GAS, TURN THE GAS CONTROL HANDLE TOWARD THE "CLOSED" POSITION UNTIL THE SHARP TAIL OF FLAME ALMOST DISAPPEARS. THEN TURN THE AIR CONTROL CLOCKWISE UNTIL THE TAIL OF FLAME RE-APPEARS. REPEAT THIS PROCEDURE UNTIL THE DESIRED OR MINIMUM GAS INPUT IS REACHED.

TO SHUTDOWN THE FORGE, TURN THE GAS CONTROL TO THE "CLOSED" POSITION, THEN FLIP THE TOGGLE SWITCH TO "OFF".

VENTING REQUIREMENTS

JOHNSON FURNACES

1. POT FURNACES, FORGES, AND MELTING FURNACES,
SINGLE UNITS OR MULTIPLE INSTALLATIONS

FOR EXHAUST HOODS APPROXIMATELY 6'6" TO 7'
ABOVE FLOOR, THE EXHAUST FAN SHOULD BE
SUFFICIENT TO PROVIDE A 200 FPM FACE
VELOCITY AT THE HOOD.

2. OVEN TYPE FURNACES (INCLUDES OVEN FORGES)

- A. SINGLE INSTALLATIONS

FOR SINGLE INSTALLATIONS THE VENT REQUIREMENTS
SHOULD REDUCE FLUE GAS TEMPERATURE TO 500 OR
BELOW. FOR CFM REQUIREMENTS, DIVIDE BTU INPUT
OF THE FURNACE BY 225. (APPLICABLE WHERE THE
VENT HOOD IS 6" TO 8" ABOVE EXHAUST OPENINGS)

- B. FOR SINGLE OR MULTIPLE INSTALLATIONS WHEN SINGLE
EXHAUST HOOD IS 6'6" TO 7' ABOVE FLOOR, PROVIDE
FOR A 200 FPM FACE VELOCITY.