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.

JOHNSON GAS APPLIANCE COMPANY
Cedar Rapids, Iowa  52405
INSTALLATION DIAGRAM FOR #133-122
FORGE WITH ELECTRIC IGNITION

LID HANDLE
UNLOCKED POSITION
LOCKED POSITION
LOCKING LEVER

BURNER MANIFOLD
VALVE HANDLE ON #133 ONLY

GAS INLET
NAT. GAS
3 OUNCE PRESSURE
L.P. GAS
6 OUNCE PRESSURE

FRONT CONTROL BOX

SPARK IGNITER IN PLACE
BACK OF BURNER MANIFOLD
IGNITER LEAD FROM TRANSFORMER

JOHNSON GAS APPLIANCE CO.
CEDAR RAPIDS, IOWA

FORM NO. 280
9-15-66
CONTROL PANELS FOR NO. 122 FORGE WITH ELECTRIC IGNITION

OPEN

CLOSED GAS CONTROL

GAS CONTROL

TOGGLE SWITCH

IGNITION BUTTON

AIR CONTROL
WIRING DIAGRAM FOR NO. 122 FORGE WITH ELECTRIC IGNITION

CUSTOMER
CONNECT 115 VOLT HOT
60 CYCLE ELECTRICAL SOURCE TO LEADS EXTENDING FROM JUNCTION BOX GND

ON-OFF TOGGLE SWITCH

IGNITION BUTTON

SPEED CONTROL

SOLENOID VALVE

BLOWER MOTOR

TRANSFORMER

JOHNSON GAS APPLIANCE CO.
CEDAR RAPIDS IOWA
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.

JOHNSON GAS APPLIANCE CO.
CEDAR RAPIDS, IOWA
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.


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.