

KIT ID PLUG – ULN PACKAGE UNIT

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WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

DO NOT BYPASS SAFETY DEVICES.



CAUTION

TO PREVENT UNRELIABLE OPERATION OR EQUIPMENT DAMAGE, THE INLET GAS SUPPLY PRESSURE MUST BE AS SPECIFIED ON THE UNIT RATING PLATE WITH ALL OTHER HOUSEHOLD GAS FIRED APPLIANCES OPERATING. THE MANIFOLD PRESSURE MUST BE AS SPECIFIED ON THE UNIT RATING PLATE, AND ONLY MINOR ADJUSTMENTS SHOULD BE MADE BY ADJUSTING THE GAS VALVE PRESSURE REGULATOR.

QUEBEC DISCLOSURE REGARDING AVAILABILITY OF REPLACEMENT PARTS, REPAIR SERVICES AND INFORMATION FOR MAINTENANCE AND REPAIR:
DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, INC. (DAIKIN) DOES NOT GUARANTEE THE AVAILABILITY OF (1) REPLACEMENT PARTS; (2) REPAIR SERVICES; AND (3) INFORMATION NECESSARY TO MAINTAIN OR REPAIR PRODUCTS, WITHIN THE MEANING OF SECTION 39.1 OF THE CONSUMER PROTECTION ACT, CQLR, c P-40.1 AND SECTION 79.18 OF THE REGULATION RESPECTING THE APPLICATION OF THE CONSUMER PROTECTION ACT, CQLR, c P-40.1, R. 3.

AVIS POUR LE QUÉBEC CONCERNANT LA DISPONIBILITÉ DES PIÈCES DE RECHANGE, DES SERVICES DE RÉPARATION ET DES RENSEIGNEMENTS POUR L'ENTRETIEN ET LA RÉPARATION :
DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, INC. (DAIKIN) NE GARANTIT PAS LA DISPONIBILITÉ (1) DES PIÈCES DE RECHANGE, (2) DES SERVICES DE RÉPARATION ET (3) DES RENSEIGNEMENTS POUR L'ENTRETIEN ET LA RÉPARATION, AU SENS DE L'ARTICLE 39.1 DE LA LOI SUR LA PROTECTION DU CONSOMMATEUR, RLRQ c P-40.1 ET DE L'ARTICLE 79.18 DU RÈGLEMENT D'APPLICATION DE LA LOI SUR LA PROTECTION DU CONSOMMATEUR, RLRQ c P-40.1, R 3.

DESCRIPTION

The Kit ID Plug kit is used with residential package Ultra Low NOx (60 & 80K) models that exhibit light-off issues.

The corresponding fault code for this condition is: "1 FLASH RED" displayed on the furnace control board.

ULN BURNER DESCRIPTION AND INSPECTION

Ultra-Low NOx (ULN) package units are equipped with a premix ULN burner. The burner box is designed and sealed to provide safe and reliable combustion performance.

During any service or inspection activity, ensure that the burner box assembly and all components mounted on the burner box have proper gaskets installed. This is required to prevent air leakage that can affect combustion performance and ignitor reliability.

The contractor must verify:

1. The ignitor bracket has a gasket installed underneath, fully sealing the ignitor opening.
 2. The gasket is properly seated and not damaged, torn, or missing.
 3. All fasteners securing the ignitor or burner box components are tightened to the recommended torque.
 4. No air bypass or visible gaps exist around these components.
- Burner Box Gasket
 - Spark Ignitor
 - Flame Sensor
 - Burner Temperature Switch



CAUTION

AIR LEAKAGE INTO THE SEALED BURNER BOX CAN RESULT IN IMPROPER COMBUSTION, INCREASED EMISSIONS, OR IGNITION FAILURE. REPLACE ANY GASKET THAT IS MISSING, DAMAGED, OR DETERIORATED BEFORE OPERATING THE UNIT.

Before installing the Kit ID Plug:

- Verify inlet gas (line) pressure and manifold pressure.
- Refer to the unit's serial plate for the required pressure specifications.

KIT ID PLUG INSTALLATION

1. Turn off the power to the unit
2. Locate the PCB in the control section. Locate the ID Plug terminal labeled J9 on the PCB.
3. Remove the factory standard ID plug by detaching it

from the PCB.

4. Install the Kit ID plug. Verify the Kit ID plug is completely seated and attached to the terminal.
5. Restore power to the unit, and observe the status light on the PCB.

If the status light remains steady green, proceed with the test.

If the status light flashes 2 flashes amber, repeat steps 1 through 4.

TESTING PROCEDURE:

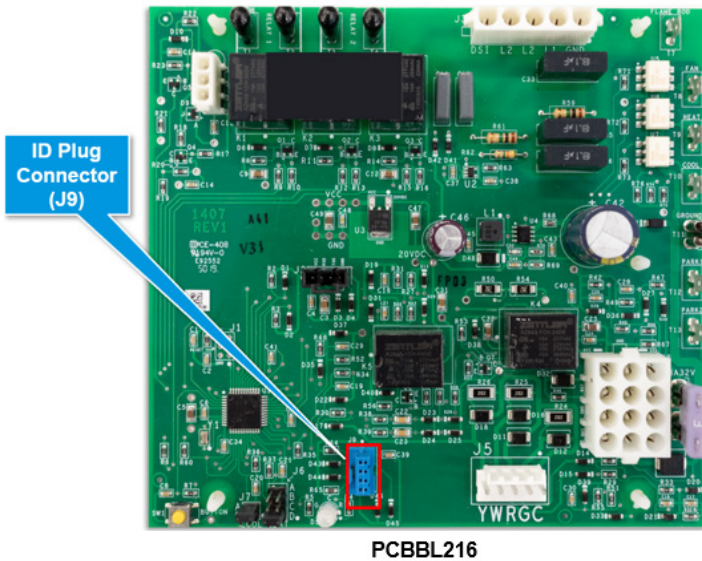
1. Initiate a call for heat.
2. Observe the sequence for the successful ignition process.

NOTE: IF IGNITION IS SUCCESSFUL, A COMBUSTION SAMPLE CHECK OR BTU INPUT CHECK MUST BE PERFORMED TO VERIFY OPERATION. SEE PAGE 3 FOR INSTRUCTIONS AND DETAILS.

IMPORTANT: IF ANY OF THE FOLLOWING ISSUES ARE OBSERVED, THE KIT ID PLUG MUST BE REPLACED WITH THE FACTORY ID PLUG:

1. If the ignition process fails consecutively for 3 trials
 - Replace the ID plug kit with the factory ID plug
 - Request replacement of the burner box assembly along with the ignitor, as improper sealing or component degradation may be contributing to repeated failures.
2. Loud backfire sound with failed ignition
3. Abnormal ignition behavior of any type





Gas supply pressure and manifold pressure with the ULN burners operating must be as specified on the rating plate, after Kit ID plug is installed. If the unit can be ignited successfully, either natural gas BTU input check or combustion sample CO₂% check is required, to avoid equipment damage due to overfilling of the unit or unreliable ignition due to gas passage blockage.

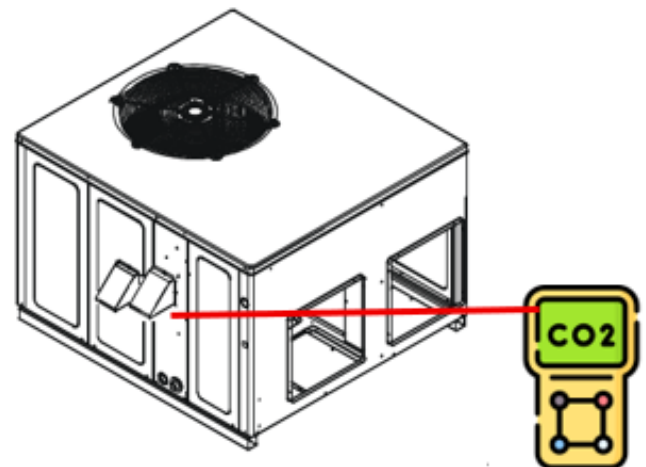
NOTE: BTU CONTENT OF THE GAS SHOULD BE OBTAINED FROM THE GAS SUPPLIER. THIS MEASURED INPUT MUST NOT BE GREATER THAN SHOWN ON THE UNIT RATING PLATE.

<b style="font-size: 1.2em; margin-left: 10px;">WARNING
THERE MAY BE A LOW- FREQUENCY COMBUSTION RUMBLE FOR A SHORT PERIOD WHEN KIT ID PLUG IS INSTALLED.

COMBUSTION SAMPLE CO₂% CHECK

1. Install FLUE GAS Analyzer probe under flue hood. Set sample port of the probe close to the center of the opening, and as close as possible to Screen.
2. The Furnace should operate for a minimum of 15 minutes before taking a combustion sample, by turning on the sample pump or switch on the flue gas analyzer.
3. The average measured CO₂% of flue gas in 5 minutes must be within provided CO₂ range. See following table for proper CO₂% range.
4. Gas Heating Values might cause measured CO₂% out of proper range. If BTU content of the gas obtained from the gas supplier is out of range, further manifold pressure adjustment may be necessary to ensure furnace operates within acceptable CO₂ range.

5. If BTU content is normal and measured CO₂% of flue gas is lower than proper CO₂ range, the gas passage might need to be cleaned. Disconnect inlet gas pipe from the gas valve, and disconnect the manifold bracket from ULN burner assembly. Either clean gas orifice or replace the manifold assembly. After cleaning gas passage, the Kit ID plug can be replaced by factory ID plug.



GAS PRESSURE AND COMBUSTION CHECKS

GAS PRESSURE VERIFICATION

After installing the Kit ID Plug, verify that both the inlet (supply) gas pressure and manifold pressure with the ULN burners operating are within the limits specified on the unit rating plate.

<b style="font-size: 1.2em; margin-left: 10px;">CAUTION
INCORRECT GAS PRESSURE CAN RESULT IN POOR IGNITION, UNSTABLE OPERATION, OR EQUIPMENT DAMAGE. ALWAYS VERIFY GAS PRESSURES BEFORE PERFORMING COMBUSTION OR BTU INPUT CHECKS. IF THE UNIT IGNITES AND OPERATES SUCCESSFULLY, PERFORM EITHER A GAS BTU INPUT CHECK OR A COMBUSTION SAMPLE CO₂% CHECK. THIS ENSURES PROPER COMBUSTION PERFORMANCE AND PREVENTS POTENTIAL DAMAGE CAUSED BY OVERFIRING OR RESTRICTED GAS PASSAGES.

GAS BTU INPUT CHECK

To verify the actual gas input, use a calibrated gas meter and follow the steps below:

1. Turn off the gas supply to all other gas-fired appliances except the unit under test.
2. With the ULN unit operating, time the smallest dial on the gas meter for one complete revolution.
 - If the dial indicates 2 cubic feet, divide the seconds by 2.

- If the dial indicates 1 cubic foot, use the seconds as measured.
- The result gives seconds per cubic foot of gas being delivered to the unit.

3. Calculate gas input using the formula:

Input (BTU/hr) = Gas Heating Value $\times$ 3600 $\div$ Seconds per Cubic Foot

Example: For natural gas with a heating value of 1000 BTU/ft³ and 36 seconds/ft³,

Input = 1000 $\times$ 3600 $\div$ 36 = 100,000 BTU/hr

- The BTU content of the gas must be obtained from the local gas supplier. The measured input must not exceed the value shown on the unit rating plate.
- After completing the test, relight all other appliances that were turned off in Step 1 and verify all pilot burners are operating properly.

EXAMPLE: Natural gas with a heating value of 1000 BTU per cubic foot and 36 seconds per cubic foot as determined by Step 2, then: Input = 1000 $\times$ 3600 / 36 = 100,000 BTU per Hour.

NOTE: EXCESSIVE GAS INPUT CAN CAUSE OVERHEATING, EQUIPMENT DAMAGE, AND NON-COMPLIANCE WITH CERTIFICATION REQUIREMENTS. ALWAYS CONFIRM INPUT WITHIN THE RATING PLATE LIMITS.

COMBUSTION SAMPLE CO₂% CHECK

- Insert the flue gas analyzer probe into the flue outlet under the hood. Position the sampling port of the probe near the center of the opening and as close as possible to the screen.
- Allow the furnace to operate for a minimum of 15 minutes before taking a combustion sample. Activate the sample pump or analyzer switch to begin measurement.
- The average measured CO₂% over a 5-minute period

must fall within the specified CO₂ range listed in the table below.

- Variations in gas heating value may cause the measured CO₂% to deviate from the specified range.
 - If the BTU content obtained from the gas supplier is outside the acceptable range, adjust the manifold pressure as required to maintain proper combustion.
- If the BTU content is normal but the CO₂% reading is below the specified range, the gas passage may be restricted.
 - Disconnect the inlet gas pipe from the gas valve.
 - Remove the manifold bracket from the ULN burner assembly.
 - Clean the gas orifices or replace the manifold assembly as needed.
 - After cleaning, reinstall all components and replace the Kit ID Plug with the Factory ID Plug.



CAUTION

ENSURE GAS SUPPLY IS SHUT OFF BEFORE DISCONNECTING THE INLET GAS PIPE OR MANIFOLD ASSEMBLY. FAILURE TO DO SO CAN RESULT IN FIRE, EXPLOSION, OR PERSONAL INJURY. ALWAYS PERFORM A LEAK TEST AFTER REASSEMBLY.

MODEL NUMBER	INPUT RATE, BTU/HR	ID PLUG PART NUMBER	CO ₂ %
A/GPUM33006031, DP3UM3006031	60,000	0130G00038 (ULNRP-60S)	5.7-7.2
A/GPUM33606031, DP3UM3606031	60,000		5.7-7.2
A/GPUM34208031, DP3UM4208031	80,000	0130G00039 (ULNRP-80S)	6.0-7.5
A/GPUM34808031, DP3UM4808031	80,000		6.0-7.5
A/GPUM36008031, DP3UM6008031	80,000		6.0-7.5
DP3UM3608033	80,000		6.0-7.5
DP3UM4808033	80,000		6.0-7.5
DP3UM6008033	80,000		6.0-7.5
DP5UM3008031	80,000		6.0-7.5
DP5UM3608031	80,000		6.0-7.5

TABLE 1

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CUSTOMER FEEDBACK

Daikin Comfort Technologies is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



Our continuing commitment to quality products may mean a change in specifications without notice.

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