HI-151
CoolCloud™ HVAC Bluetooth®
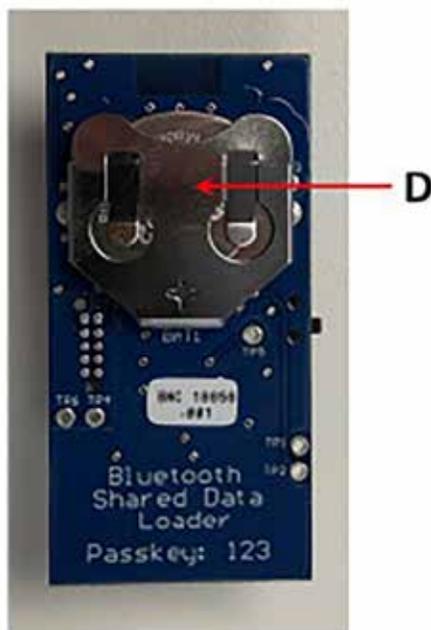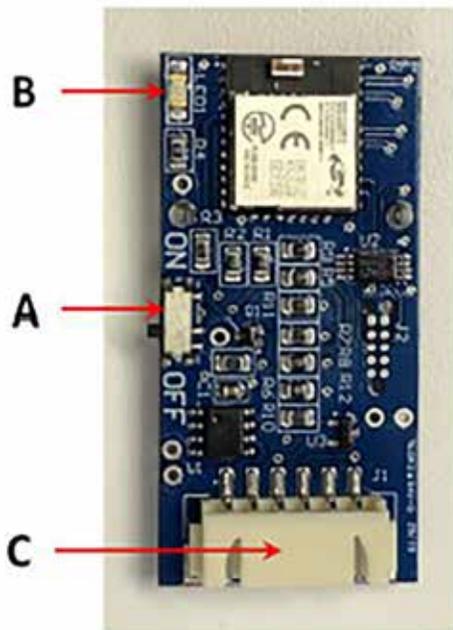# Shared Data Loader
User Guide

The Bluetooth Shared Data Loader can be used to load Shared Data onto **ComfortNet ®** and **ComfortBridge ™** HVAC equipment. It can be reprogrammed in the field to hold any set of Shared Data using the **CoolCloud** HVAC app and a compatible mobile device.

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Contents

Device Layout

A. **Power Switch** – Can be placed in the ON or OFF position. The device must be powered on to
program Shared Data from the CoolCloud HVAC app and to load Shared Data onto any
compatible equipment.
B. **Status LED** – Will blink periodically when the device is powered on. The Status LED will blink
once every 4 seconds when the device is powered on normally. The Status LED will blink 3 times
in quick succession to indicate the battery is low and will need to be replaced soon.
C. **Shared Data Loading Connector**
D. **Battery/Battery Slot** – Accepts a CR2032 3V coin cell battery

Setup

Before using the card, download the **CoolCloud** HVAC app for iOS or Android using the links below. Be
sure to register for an account before continuing.

Connecting to the Device

Turn the Bluetooth ® Shared Data Loader on by switching the Power Switch to the ON position. The blue Status LED should begin flashing periodically. If the CoolCloud HVAC app is open, it will detect the new Bluetooth network and display "SharedDataCard" as an available network. Tap on this network to connect.
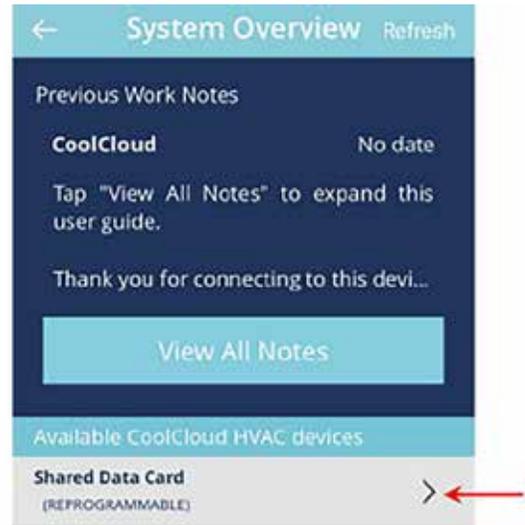

If the network does not appear, ensure the Status LED on the device is flashing and tap the refresh button in the app to continue scanning for networks.

If the app requires any security verification, choose "Pair Device by Code" and enter the code 123.
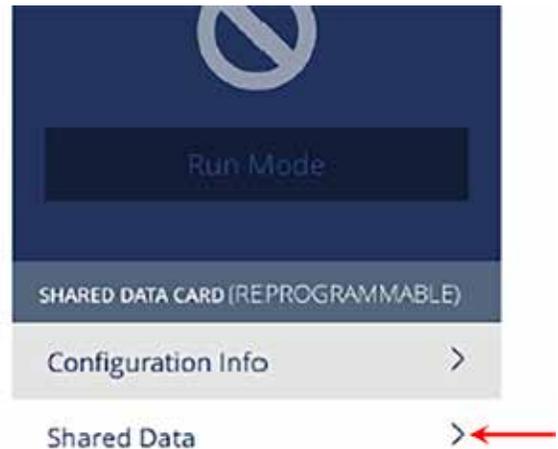

Reprogramming Shared Data

To select shared data, click on "Shared Data Card" on the system overview screen.

Then click on "Shared Data".

From here, the appropriate Shared Data can be selected by either scanning a barcode that can be found on the unit or by typing in the model number of the unit. If possible, scanning the 2D barcode is recommended to get the most accurate results. If this barcode is faded, damaged, or can't be found, then it will be necessary to enter the model number instead.
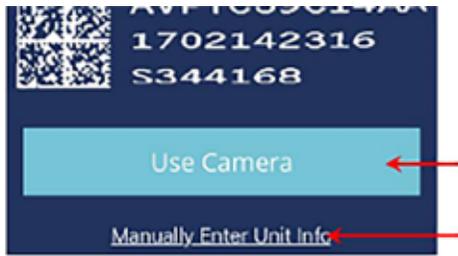
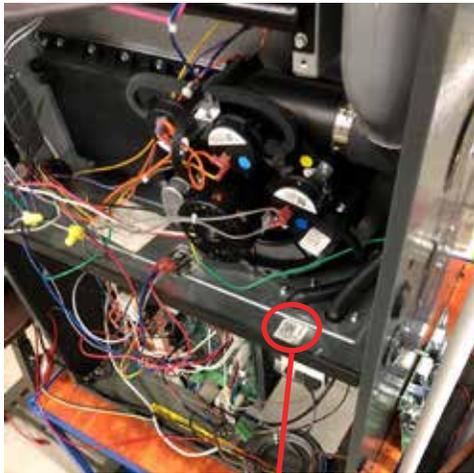The 2D barcode can typically be found somewhere inside the unit. For indoor units, the barcode can typically be found on the blower deck. For outdoor units, it can typically be found on the inside of the control board compartment. This 2D barcode will always have the model number of the unit printed next to it.

For this **ComfortNet** furnace, the 2D barcode is located on the blowerdeck, its model number is AMVC961205DNAA

After selecting the desired model number, the app will present a confirmation screen. Review the information on this screen, then, if the information looks correct, click "Confirm and Continue" to program the selected Shared Data onto the card.

If the information shown on the confirmation screen does not look correct, it may be necessary to choose a different set of Shared Data. Return to the previous screens and ensure the model number provided in the app is correct. If possible, use the camera to scan the 2D barcode instead of manually selecting the model number from the list.
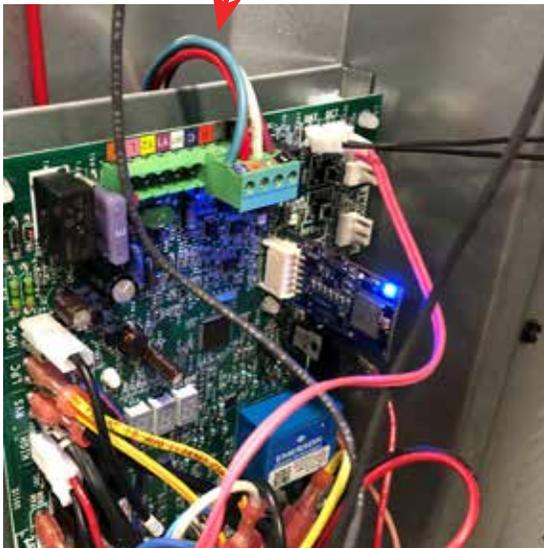
Loading Shared Data onto the Equipment

Once the Shared Data has been loaded onto the card, determine if the equipment being worked on is a **ComfortNet** unit or a **ComfortBridge** unit. All **ComfortBridge** units have Bluetooth and are designed to work with the **CoolCloud** HVAC app directly. In most cases, it will be easier to simply connect the app to the Bluetooth network of the unit and reprogram the Shared Data on the unit directly from the app.

In some cases it may be necessary to load Shared Data onto a **ComfortBridge** unit (e.g. when the Bluetooth connection is not working). If this is the case, please skip to the section labeled "Loading Shared Data onto **ComfortBridge** Equipment" for further instructions. Otherwise, please keep reading.

**Loading Shared Data onto ComfortNet™ Equipment**

When loading Shared Data from the card onto a **Comfort-Net** unit, first disconnect power from the HVAC system and insert the card into the Shared Data loading connector on the control board inside the desired **ComfortNet** unit. When plugged into the unit, the card must be powered on to function properly.

With the card plugged in and powered on, power on the equipment for 30 seconds to allow the Shared Data loading process to complete. When complete, power the equipment back off and retrieve the card from the unit. Reconnect power to the system and confirm that the Shared Data loading process was successful and that the system is operating normally.

The reprogrammable Shared Data loader card must
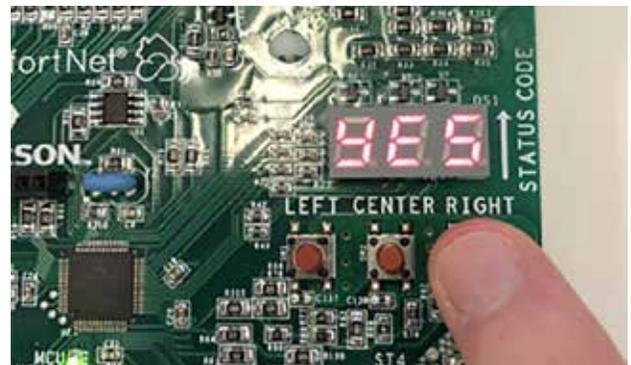be powered on to load Shared Data onto a unit.

Loading Shared Data onto ComfortBridge™ Equipment
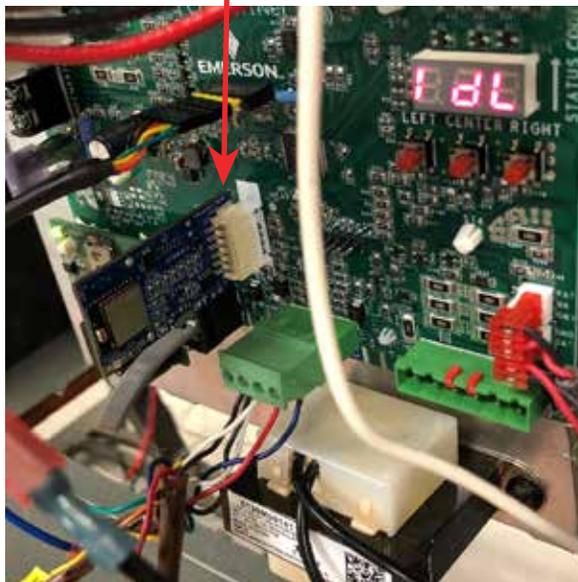
Then press "CENTER" to select the Cr menu. Some codes will begin flashing on the display. Ignore these codes and hold down the "LEFT" and "RIGHT" buttons simultaneously for at least 10 seconds. If the display switches to "Cr" again, check that the Bluetooth Shared Data Loader is inserted fully into the connector and is powered on.

After holding "LEFT" and "RIGHT" for 10 seconds, the display will start flashing a new code, once this new code appears, release the "LEFT" and "RIGHT" buttons. The equipment will display the options "YES" and "no" to confirm or cancel the Shared Data loading process. To confirm, press the "RIGHT" button to select "YES".

To load Shared Data onto a **ComfortBridge** unit, first insert the card into the Shared Data programming connector on the control board inside the desired **ComfortBridge** unit. Then ensure the board is receiving power. Once the board is fully powered on, use the "LEFT", "RIGHT", and "CENTER" buttons on the control board to navigate the appropriate menus on the control board.
Press the "RIGHT" button until the display reads "Cr".

Then press the "CENTER" button **twice** to confirm the selection. The board will then start the Shared Data loading process. Once the Shared Data Loading process is complete, the display will return to displaying "Cr".

Additional Notes

What is Shared Data?

There are many different models of equipment offered under the **ComfortNet** and **ComfortBridge** platforms; however, all these models use only a small handful of control boards. To make sure each control board can work inside its intended chassis, we load each board with a small amount of chassis-specific data when the equipment is assembled.

When the equipment is installed, this chassis data is copied over to any other connected communicating equipment and saved there in case some parts need to be replaced at a later date. Because this data is shared by other equipment on the same network, we call it "Shared Data."

This means if only one part needs to be replaced in a system, it's likely the Shared Data will automatically be loaded from the existing equipment. However, if multiple parts need to be replaced all at once and the system loses all the places where this Shared Data is stored, Shared Data will need to be reloaded to make sure the freshly installed parts are compatible with the existing equipment.

When is it Necessary to Load Shared Data?

In short, if a unit reports a d0, d1, or d2 fault code, it will be necessary to load Shared Data from the card.

One of these fault codes may be generated by a unit after some parts of the equipment are replaced. After a system is powered on for the first time, there are two or three places where the Shared Data for the entire system is stored. Shared Data is always stored on the **indoor unit control board** and the **indoor blower motor**. If the outdoor unit is a ComfortNet outdoor unit wired in communicating mode to the indoor unit (i.e. wired using the 1-2-R-C connector), then Shared Data for the system is also stored on the **outdoor control board.**

Shared Data will only need to be replaced if **all** sources of Shared Data on a system are replaced at the same time.

Loading Shared Data can be avoided by replacing only one of these parts at a time and powering up the system after replacing each part.

FCC Statement

This Device Contains Transmitter Module FCC ID: QOQB-GM111; IC: 5123A-BGM111.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter meets both portable and mobile limits as demonstrated in the RF Exposure Analysis.