# Cable 4000

Asset Gateway AG-55 installation guide for Thermo King reefer integration





| Introduction  | <ul> <li>The Motive integration solution for<br/>Thermo King refrigeration units provide<br/>two key benefits:</li> <li>Real-time monitoring of refrigerated<br/>trailer telematics data such as set<br/>point, return air, discharge air, alarm<br/>codes, fuel level, and much more.</li> <li>Remote control of refrigeration units<br/>through commands like set point,<br/>change mode, run pre-trip, turn reefer<br/>on/off, and turn the zone on/off (for<br/>multi-temp refrigerated trailers).</li> </ul> |
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| Compatibility | <ul> <li>Motive supports the following Transport<br/>Refrigeration Units (TRUs):</li> <li>C-600, S-600, S-700 - single-temp units</li> <li>C-600M, S-600M, S-610M, S-600DE,<br/>S-610DE - multi-temp units</li> </ul>   |
|               | <ul> <li>SB-130, SB-230, SB-330</li> <li>SB-110, SB-210, SB-310, SL-400E</li> </ul>   |
| Requirements  | Please ensure that you have the following components:   |
|               | Motive Asset Gateway AG-55  |
|               | Motive Cable 4000   |



# Motive Cable 4001 Adapter



# Thermo King BlueBox or iBox unit

Note: All 2018 and newer model units of Thermo King are shipped by default with a BlueBox device. For 2017 and older models, either BlueBox (P/N: 401634) or iBox units (P/N: 401243) should be purchased from your Thermo King dealer.





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# Thermo King 3rd Party Harness

This harness would be pre-installed if the customer selected the 3rd party gateway enabled option when ordering their Thermo King refrigeration unit. If this is not installed, this harness needs to be purchased from your Thermo King dealer.

Single-temp harness (P/N: 422867) Multi-temp harness (P/N: 422869)

# **Pre-install steps**

Step 1Identify whether you have a BlueBox (P/N:<br/>401634) or iBox (P/N: 401243) unit installed<br/>on your refrigerated trailer.



- Step 2If you have a BlueBox unit installed, please<br/>reach out to your Thermo King dealer to<br/>enable a software setting that allows 3rd Party<br/>Mode on your BlueBox unit. The dealer can<br/>turn this setting on remotely.
- Step 3Follow the steps below to go to GuardedAccess Mode on your Thermo King physical<br/>controller unit (installed on your refrigerated<br/>trailer). To navigate between pages, press the<br/>Up and Down buttons.
  - a. Press the ON button on the display screen.
  - b. Press the Menu button as it appears.
  - c. Press the Exit and Unlabeled button at the same time for 5 seconds.
  - **d.** The display screen will now show the Maintenance menu.
  - e. Press the Next button until the screen will not advance further.

Step 3 (cont.)

Step 4

Step 6

f. Press the Exit and Unlabeled button at the same time for 5 seconds.

g. The display screen will now show the Guarded Access menu.

From Guarded Access Mode, navigate to Hardware Configuration and then to 3rd Party Device Control and set it to **COM1.** 



Step 5From Guarded Access Mode, navigate to<br/>Programmable Features and then Remote<br/>Device and set it to Enabled.



From Guarded Access Mode, navigate to Programmable Features and then COM1 Default Baud Rate and set it to **9600**.



Breast Review 4

From Guarded Access Mode, navigate to REB Type or TK Telematics Configured and set it to **Ibox+Cell+GPS.** 



From Guarded Access Mode, navigate to Main Menu Configuration and **Add Sleep** to the Mode Menu.



Step 9

#### Verification

For iBox units, no additional verification is needed as 3rd Party Mode is enabled by default.

For BlueBox units, additional verification is necessary. To enable 3rd Party Mode, turn on the Thermo King refrigeration unit and make sure the LEFT #1 LED is blinking red. If the LED is solid red, please make sure you've successfully completed the steps listed above. If the issue persists, please reach out to your Thermo King dealer again to ensure they have correctly set the software setting on their end to enable 3rd Party Mode.

# Step 8

# Step 9 (cont.)



# Installation

Step 1Download and log into the Motive Fleet App<br/>from Google Play Store or Apple App Store.

## Step 2 Choose where to install the Asset Gateway on your refrigerated trailer. We strongly recommend following these guidelines:

- Place the Asset Gateway on a flat surface.
- Avoid placing the Asset Gateway near any heat sources (such as compressors or fans) and vibrations that are caused by the refrigeration unit.
- Position the Asset Gateway towards the sky. This will allow the device to receive backup solar power if the cable power is not available.



Asset Gateway installed with a solar mount on the refrigeration unit.

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Asset Gateway installed without a solar mount on the top of the refrigeration unit.



Step 3

Go to the **Devices** tab and follow the in-app instructions to guide you through installing the Asset Gateway.



| Step 4 | Connect Cable 4000 to the Asset Gateway.   |
|--------|--|
| Step 5 | Connect the orange 6-pin Deutsch connector of Cable 4000 to the Cable 4001 Adapter.    |
| Step 6 | Connect the other end of the Cable 4001<br>Adapter to Thermo King's 3rd party harness. |



Step 7Refer to the Thermo King instructions that<br/>came with your 3rd party cable harness<br/>for more details on connection points for<br/>installing in single and multi-temp units.

# Single-temp units only



Multi-temp units only



Once installation is complete, you'll be able to monitor reefer telematics data live in Fleet View from the Motive Fleet Dashboard.



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# Potential Unlocked



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