

# ***DigiTRAK***<sup>®</sup>

## **LOC**<sup>™</sup>

### **Supplement C**

## **Lock-Out Capability for Falcon Guidance Systems**

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**Patents**

Patent pending.

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## Important Safety Instructions

Always operate your DigiTrak<sup>®</sup> locating system properly to obtain accurate depth, pitch, roll, and locate points. If you have any questions about the operation of the system, please contact DCI Customer Service for assistance.

This document is a companion to your DigiTrak Falcon<sup>®</sup> guidance system operator's manual, which contains a more thorough list of warnings regarding the potential for serious injury and death, work slowdowns, property damage, and other hazards and warnings regarding the operation of horizontal drilling equipment. Please read and understand your system operator's manual completely before operating the equipment described in this manual.

## Who is This Document For?

This document is intended for the equipment owner. It shows you how to enable and manage the LOC<sup>™</sup> Lock-Out Capability feature on your receiver. Daily users do not need the information presented in this document.

## Other Documents

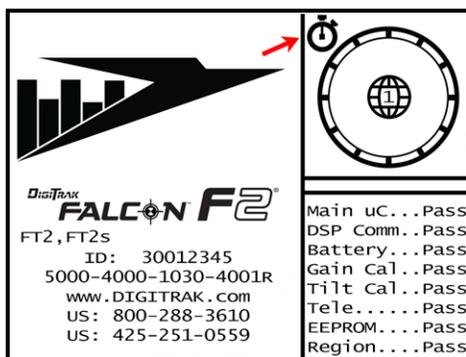
If necessary, please visit the documentation page on our [website](#) to download your guidance system operator's manual, quick start guide, or additional manual supplements.

## What is LOC<sup>™</sup>?

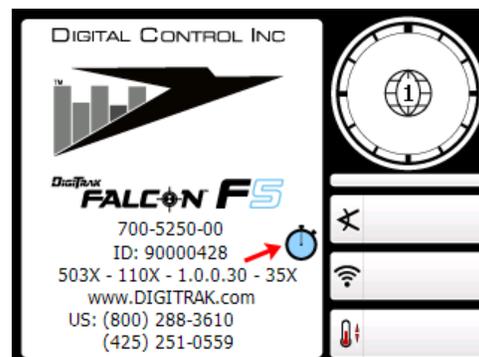
LOC<sup>™</sup> lets you set a usage timer with lock-out capability on your Falcon receiver for a period of time you choose. After a Master Code timer expires, the receiver is disabled until your Master Code is entered again. This feature helps deter theft by making the receiver a less tempting target.

Initial setup takes only a few minutes and the theft deterrent it adds to your equipment is worth it. With LOC<sup>™</sup> enabled, the receiver must be returned to the equipment owner regularly for entry of the Master Code or the receiver will lock. Optionally, set a User Code that allows the operator to keep the receiver unlocked but allows no access to LOC<sup>™</sup> settings.

If LOC<sup>™</sup> is available on your receiver, a stopwatch icon appears on the startup screen:



Falcon F2 Startup Screen



Falcon F5 Startup Screen

Receivers equipped with LOC™ include a warning label you can use to mark your receiver as LOC™-protected:



To add this feature to an earlier-release Falcon receiver, contact your regional DCI office or [customerservicetech@digital-control.com](mailto:customerservicetech@digital-control.com).

LOC™ is offered as a theft deterrent, but it cannot guarantee your receiver will not be stolen. Apply the provided LOC™ sticker prominently to deter would-be thieves. Be aware of the location of your equipment at all times. Keep your equipment out of sight and secure when not in use.

## Give Me The Short Version

LOC is as simple as setting up a **Master Code** and its timer. When the timer expires, the receiver is locked. Set the timer at one day, two weeks, or 12 months—it's your choice. Turn it off any time.

Optionally, add a **User Code** and timer to give workers regulated ability to keep the receiver unlocked without requiring the Master Code or allowing access to the Lock menu. When your Master Code timer expires, the operator will still need to bring the receiver to you. Only you know how much time is left.

If you trust your crew with your equipment (which is your life), enable the **Refresh Master Timer** feature along with the User Code. Whenever they enter their User Code, the Master Code timer will also refresh to the full time period you chose. But if stolen, without entry of the User Code, the receiver locks when the Master Code expires.

## Key Concepts

The Falcon LOC™ feature was requested by customers to help reduce the theft of locating equipment. LOC™ must be specifically enabled and managed by the equipment owner; it is not on by default. Until the receiver is registered with DCI and LOC™ is enabled by a call to your regional DCI office, LOC exists only as two unusable icons on the **Settings** menu.

Concept	Purpose
<b>Master Code</b>	Used to manage LOC™, including whether to implement a User Code. It can be turned on or off.
<b>User Code</b>	Optional. Allows the operator regulated ability to keep the receiver unlocked without access to LOC™ settings.
<b>Timer</b>	Both a User Code and Master Code operate on a countdown timer that will eventually expire. An expired User Code displays a warning icon that indicates the receiver will soon lock (due to the Master Code timer). An expired Master Code locks the receiver. Timer duration can be set from 1 to 365 days.
<b>Locked</b>	The receiver locks when the Master Code expires.
<b>Refresh Master Timer</b>	Allows entry of the User Code to also refresh the Master Code timer.

# How LOC™ Works

With LOC™ enabled, the equipment owner sets a Master Code that applies a usage timer to the receiver. This requires entry of the Master Code at a regular interval of days, weeks, or months you define.



If the Master Code timer expires, the receiver will be locked the next time it powers on. A locked receiver may result in interruptions and/or delays of your HDD project.

Your Falcon receiver must be registered with DCI before LOC™ can be enabled. Without registration, customer service will be unable to provide the information specific to your receiver to enable this feature.

Once your receiver is registered, enable LOC™ with a one-time call to your regional DCI office. LOC™ cannot be enabled by fax, email, or online.

If your registered receiver is ever stolen, report it to us immediately. If DCI receives a call about it or receives it for repairs or service, we will contact you.

Because every situation is different, LOC™ is flexible so it works best for you. If you are already familiar with the LOC™ feature, following are some suggested settings to get you started. If you are new to LOC™ or setting it up for the first time, skip to [Initial Setup Values](#) on page 5.

## Suggested Setup for Falcon F1/F2

### First-Time Use

1. Register your receiver with DCI.
2. Decide on your [Initial Setup Values](#) on page 5.
3. From the receiver's **Settings** menu , select **Lock Menu** .
4. Call your regional DCI office and provide recovery contact information, the receiver serial number, and the receiver setup code. Enter the response code DCI provides to enable LOC™. This opens the Lock menu.
5. Set a **Master Code**  and select **Enter**  to save.

### Setting or Changing LOC™

1. On the Lock menu, select **Master Code Timer**  to turn it on (✓ on icon).
2. Set the timer length in days, weeks, or months.

When this timer expires, the receiver will lock. Try an initial setting of two weeks (14 days).

## Suggested Setup for Falcon F5

### First-Time Use

1. Register your receiver with DCI.
2. Decide on your [Initial Setup Values](#) on page 5.
3. From the receiver's **Settings** menu , select **Lock Menu** .
4. Call your regional DCI office and provide recovery contact information, the receiver serial number, and the receiver setup code. Enter the response code DCI provides to enable LOC™. This opens the Lock menu.
5. Select **Master Options** , set a **Master Code** , and select **Enter**  to save.

### Setting or Changing LOC™

1. On the Master Options menu , select **Master Timer On/Off**  to turn it on (  on icon).
2. Set the **Timer**  duration in days. When this timer expires, the receiver will lock. Try an initial setting of two weeks (14 days).
3. Select **Exit**  to save your settings.

## Results of Suggested Setup

In 14 days the receiver will lock. Entering the Master Code starts another 14-day timer.

## Initial Setup Values

Review the End User License Agreement ([EULA](#)) at the end of this manual; DCI will require your approval of the EULA before enabling LOC on your receiver.

Prior to calling your regional DCI office to enable LOC™, decide on and enter the requested information below, then keep it in a safe place for future reference.

_____	<b>Serial Number</b>	The serial number of your Falcon receiver, shown on the startup screen.
_____	<b>Master Code</b>	1 to 8 digits (1 to 12 for FF5); first number cannot be zero. Used by the equipment owner.
_____	<b>Timer</b>	How often the Master Code must be entered to prevent system lockout, in days, weeks, or months (for FF5, in days only).
_____	<b>Recovery contact</b>	Information that verifies ownership if you call DCI for unlocking assistance later, such as equipment owner name, email address, and/or phone number. This person should be easily available in case of equipment lockout.
_____	_____	_____

For the optional User Code (discussed later in this manual):

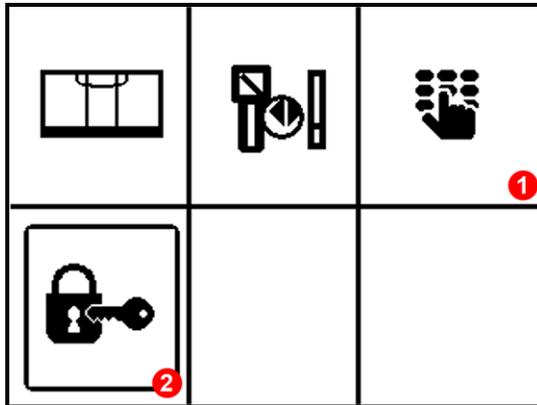
_____	<b>User Code On/Off</b>	Yes or No
_____	<b>User Code</b>	1 to 8 digits (1 to 12 for FF5); first number cannot be zero. Used by the operator.
_____	<b>Timer</b>	How often the User Code must be entered, in days, weeks, or months (for FF5, in days only).
_____	<b>Refresh Master Timer</b>	On or Off. If On, entry of the User Code will also refresh the Master Code timer.

# Falcon F1/F2 Setup

The next several pages will show you how to register your receiver, enable LOC™ for the first time, and set it up to work best for you. After familiarizing yourself with these instructions, consider starting with the suggested setup in [How LOC™ Works](#) on page 3. For [Falcon F5](#), skip to page 12.

## Turning on LOC™

On the **Settings**  menu, select **Lock Menu** .



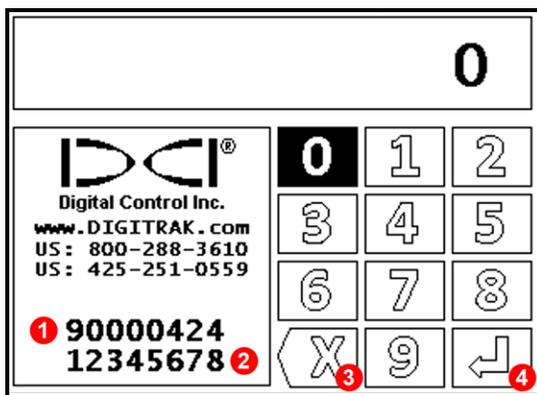
- 1. Code
- 2. Lock Menu

Settings Menu



Enter the Master Code using the **Code** icon shown above to refresh the timer to its full duration whenever you want.

On first use of the Lock menu, the receiver presents a setup screen:



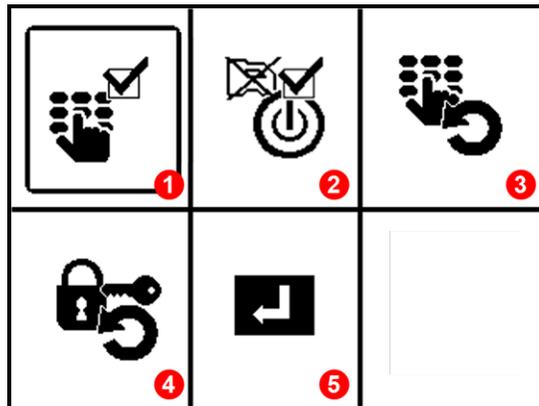
- 1. Serial Number
- 2. Setup Code
- 3. Backspace
- 4. Enter

LOC™ Initial Setup Screen

Call your regional DCI office and provide the **Serial Number** of your registered receiver. Once ownership is verified, provide the unique 8-digit **Setup Code** shown at the bottom of the screen. This number is not shared with any other receiver and changes regularly. Use the keypad to enter the response code DCI provides; click to move between digits, hold to select a digit, select **Enter** to confirm.

Entering the correct response code opens the Lock menu. You can go directly to this menu later by selecting

**Settings**  > **Lock Menu**  and entering the Master Code. Use the Lock menu to make changes to LOC™. These menu items are discussed in the following sections.



1. [User Code Timer](#) (✓ = On)
2. [Master Code Timer](#) (✓ = On)
3. [Change User Code](#)
4. [Change Master Code](#)
5. [Exit](#)

### Lock Menu



On your first visit to the Lock menu, set the Master Code first (see next section). If you exit without setting a Master Code, you cannot return to this menu and make changes to LOC™ without contacting DCI again.

Opening the Lock menu refreshes both the Master Code and optional User Code timers.

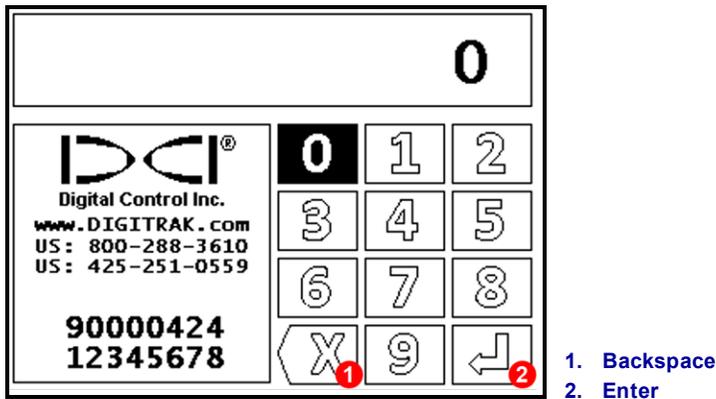
## Lock Menu

### Change Master Code

On the **Lock** menu , select  to set or change the code. Enter a new code of up to eight digits, then select **Enter** to confirm. The receiver can only have one Master Code at a time. The code cannot start with zero. DCI recommends using a minimum of six digits.



You will only enter these digits once. Before selecting **Enter** to confirm, check your number carefully to ensure it is correct.



**Set or Change Master Code**

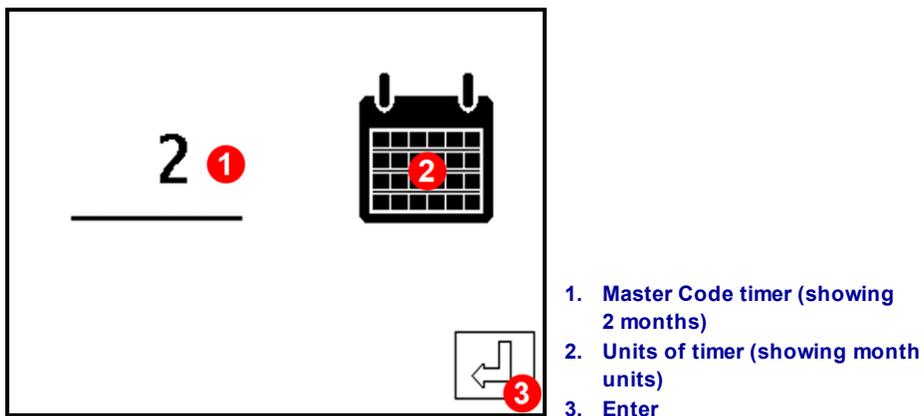
To continue using the existing code, enter it and select **Enter** .

When you need to enter the Master Code to refresh the timer, use **Settings**  > **Code** .

**Master Code Timer** 

Use this to turn the Master Code on or off and specify how long it will allow the receiver to operate. An expired Master Code locks the receiver.

With this feature enabled (✓ as shown above), the Master Code enables a timer. If the Master Code is not entered before the timer expires, the receiver will lock. To disable the timer, select this icon to change the check mark to an X, and the receiver will never lock. Select it again to turn it on and set the timer.



**Setting Master Code Timer**

To set the Master Code timer:

1. The timer is shown underlined ("2" in this example). To open it, hold the trigger until you see a box around the value. Click to increase the value, hold again to set it. This value is real calendar time, not only the time the receiver is powered on.
2. Select the calendar icon to set the timer units: days, weeks, or months. The icon will change to show the time period chosen. This example shows months. The units determine the maximum timer value: 31 days, 52 weeks, or 12 months.
3. Select **Enter** to set the Master Code timer.

If you want the Master Code timer to refresh each time the User Code is entered, see [Refresh Master Timer](#) on page 10.

### Master Code Expiration

When a Master Code expires, the receiver locks and will power on to a keypad. The receiver will remain locked until entry of the Master Code.

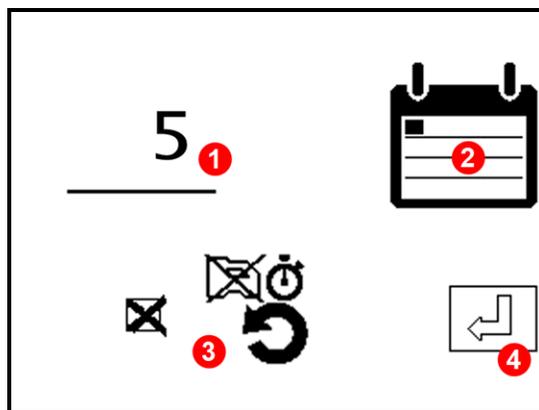
If you forget your Master Code, call your regional DCI office with your serial number and setup code for help. This recovery will require the recovery contact information provided when LOC™ was enabled on this receiver.

### User Code Timer

Setting a User Code timer is optional; LOC™ will work with only a Master Code (see the [FAQs](#) on page 17). A User Code timer duration should typically be shorter than that of the Master Code timer.

Once this code is set, the operator will enter it using **Settings**  > **Code**  (see [Turning on LOC™](#) on page 6).

The ✓ in this Lock menu icon indicates this feature is on. To turn it off, select this icon to change the check mark to an X. Select it again to turn it on and set the timer.



1. Timer (showing 5 days)
2. Units of timer (showing day units)
3. Refresh Master Timer (showing "off")
4. Enter

### Setting User Code Timer

To set the User Code timer:

1. The timer is shown underlined ("5" in this example). To open it, hold the trigger until you see a box around the value. Click to increase the value, hold again to set it. This value is real calendar time, not only the time the receiver is powered on.

2. Select the calendar icon to set the timer units: days, weeks, or months. The icon will change to show the time period chosen. This example shows days. The units determine the maximum timer value: 31 days, 52 weeks, or 12 months.
3. Select **Refresh Master Timer**  to change the **X** to **✓** ("on") if you want the entry of the User Code to also refresh the Master Code timer. If not, set this to **X**.
4. Select **Enter** to set the User Code timer and return to the Lock menu.



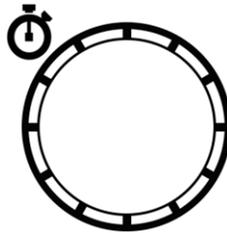
While **Refresh Master Timer** (see the first [FAQ](#) on page 17) is convenient for the equipment owner, it allows anyone who learns the User Code to enter it daily and operate the receiver indefinitely without knowing the Master Code.

Entering the User Code will not refresh the Master Code timer unless the [Refresh Master Timer](#) option is on (see step 3 above). The User Code timer refreshes automatically whenever the Master Code timer is

refreshed (using **Code**  or opening the Lock menu).

### **User Code Expiration**

When a User Code expires, a stopwatch icon appears on the locating screen above the roll clock:



An expired User Code will not stop the receiver from functioning; this only happens if the Master Code expires. However, the stopwatch icon alerts the operator that use is subject to the Master Code timer. To prevent the alert, instruct the operator to enter the User Code regularly, such as every morning or every Monday.

By design, a User Code timer is not useful unless it is set shorter than the Master Code timer.

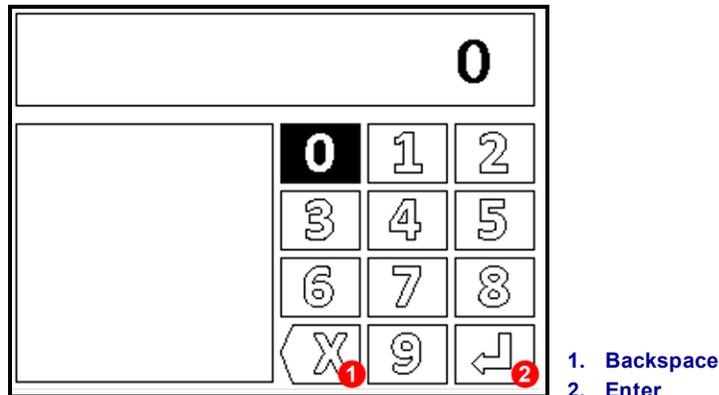
DCI suggests setting the Master Code timer at least one day longer than the User Code timer. Used with the **Refresh Master Timer** option, this gives the operator time to notice the warning icon and enter the User Code before the Master Code expires and locks the receiver.

## Change User Code

On the **Lock** menu , select  to set or change the code. Enter a new code of up to eight digits, then select **Enter** to confirm. The receiver can only have one User Code at a time. The code cannot start with zero. DCI recommends using a minimum of six digits.



You will only enter these digits once. Before selecting **Enter** to confirm, check your number carefully to ensure it is correct.



### Set User Code

The new User Code must be entered by the operator as often as you specify for the [User Code Timer](#) (see page 9).

To continue using the existing code, enter it and select **Enter**.

If you forget the User Code, use this option to enter a new code.

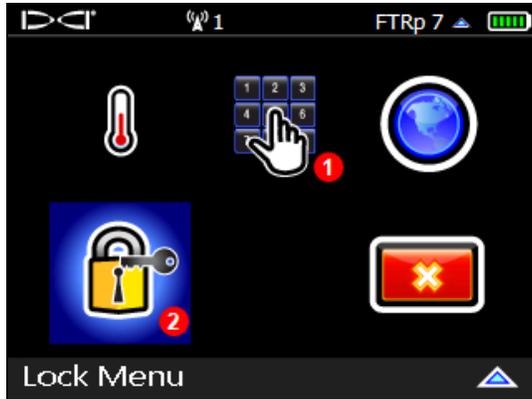
Continue reading about [Frequently Asked Questions \(FAQs\)](#) on page 17.

# Falcon F5 Setup

The next several pages will show you how to register your receiver, enable LOC™ for the first time, and set it up to work best for you. After familiarizing yourself with these instructions, consider starting with the suggested setup in [How LOC™ Works](#) on page 4. For [Falcon F1/F2](#), see page 6.

## Turning on LOC™

On the **Settings**  menu, select **Lock Menu** .



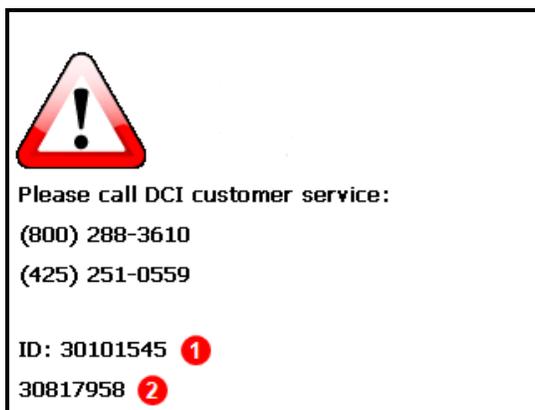
- 1. Code
- 2. Lock menu

Settings Menu



Enter the Master Code using the **Code** icon shown above to refresh the timer to its full duration whenever you want.

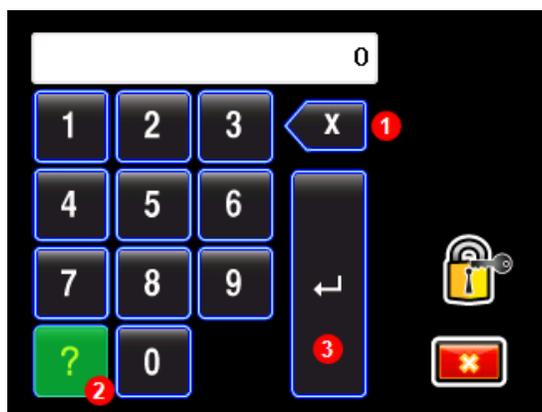
On first use of the Lock menu, the receiver presents a setup screen:



- 1. Serial Number
- 2. Setup Code

LOC™ Initial Setup Screen

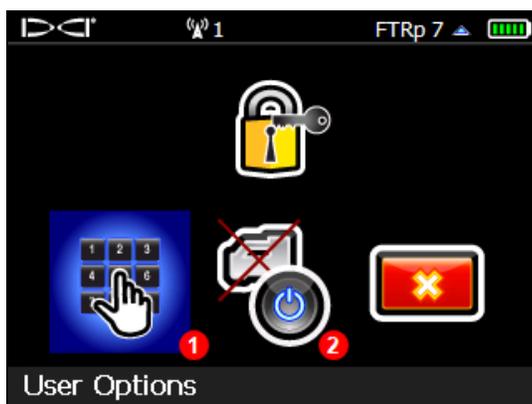
Call your regional DCI office and provide the **Serial Number** (ID) of your registered receiver. Once ownership is verified, provide the unique 8-digit **Setup Code** shown at the bottom of the screen. This number is not shared with any other receiver and changes regularly. Use the keypad to enter the response code DCI provides, then select **Enter**.



1. [Backspace](#)
2. [Help \(see page 15\)](#)
3. [Enter](#)

**Keypad**

Entering the correct response code opens the **Lock** menu. You can go directly to this menu later by selecting **Settings**  > **Lock Menu**  and entering the Master Code. Use the Lock Menu to change both Master Code and User Code properties. These menu items are discussed in the following sections.



1. [User Options](#)
2. [Master Options](#)

**Lock Menu**



On your first visit to the Lock menu, set the Master Code first (see next section). If you exit without setting a Master Code, you cannot return to this menu and make changes to LOC™ without contacting DCI again.

Opening the Lock menu refreshes both the Master Code and optional User Code timers.

## Master Options

On the **Lock**  menu, select **Master Options** . This displays the Master Options menu.



1. [Master Code On/Off](#) (✓ = On)
2. [Timer](#)
3. [Change Master Code](#)

Master Options Menu

## Master Code On/Off

With this feature enabled (✓ as shown above), the Master Code enables a timer. If the Master Code is not entered before the timer expires, the receiver will lock. To disable the timer, select to clear the check box



. If the Master Code is off (no timer), the receiver will never lock.

If you want the Master Code timer to refresh each time the User Code is entered, see [Refresh Master Timer](#) on page 17.

## Timer

Enter the number of days the Master Code will be valid and select **Enter**. When the Master Code timer expires, the receiver will lock the next time it is powered on. The maximum number of days allowed is 365. This value is total time elapsed since the code was set, whether the receiver is powered on or not.

## Change Master Code

Use this option to display the current code. To change it, enter a new code of up to 12 digits, then select **Enter** to confirm and automatically turn the timer on. The receiver can only have one Master Code at a time. The code cannot start with zero. DCI recommends using a minimum of six digits.



You will only enter these digits once. Before selecting **Enter** to confirm, check your number carefully to ensure it is correct.

When you need to enter the Master Code to refresh the timer, use **Settings**  > **Code** .

## Master Code Expiration

When a Master Code expires, the receiver locks and will power on to the [initial setup screen](#) shown on page 12. Click to open the keypad. The receiver will remain locked until entry of the Master Code.

If you forget your Master Code, call DCI Customer Service with your serial number and setup code for help.

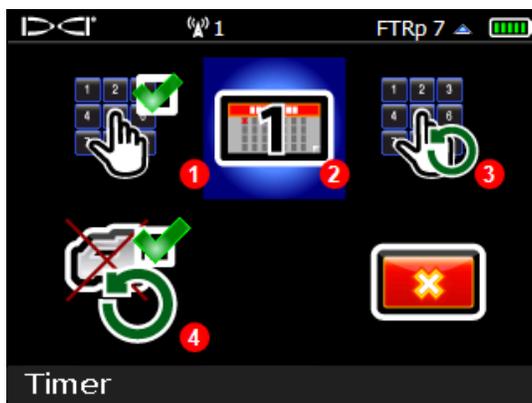
You can view these numbers using **Help**  on the [keypad](#) (see page 13). This recovery will require the recovery contact information provided when LOC™ was enabled on this receiver.

## User Options

On the **Lock**  menu, select **User Options** . This displays the User Options menu.

Setting a User Code is optional; LOC™ will work with only a Master Code (see the [FAQs](#) on page 17). A User Code timer duration should typically be shorter than that of the Master Code timer.

Once this code is set, the operator will enter it using **Settings**  > **Code**  (see [Turning on LOC™](#) on page 12).



1. [User Code On/Off](#) (✓ = On)
2. [Timer](#)
3. [Change User Code](#)
4. [Refresh Master Timer](#) (✓ = On)

### User Options Menu

Entering the User Code will not refresh the Master Code timer unless the [Refresh Master Timer](#) option is on (see page 17). The User Code timer refreshes automatically whenever the Master Code timer is refreshed

(using **Code**  or opening the Lock menu).

## User Code On/Off

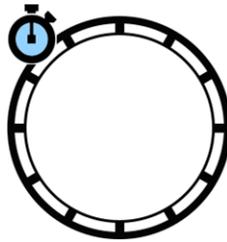
The ✓ in this menu icon indicates this feature is on. To turn it off, select this icon to clear the check box. Select it again to turn it back on.

## Timer

Enter the number of days the User Code will be valid and select **Enter**. For example, a timer value of 1 day will require entry of the User Code every 24 hours, regardless of whether or not the receiver was powered on in the past day. The maximum number of days allowed is 365.

### User Code Expiration

When a User Code expires, a stopwatch icon appears on the locating screen above the roll clock:



An expired User Code will not stop the receiver from functioning; this only happens if the Master Code expires. However, the stopwatch icon alerts the operator that use is subject to the Master Code timer. To prevent the alert, instruct the operator to enter the User Code regularly, such as every morning or every Monday.

By design, a User Code timer is not useful unless it is set shorter than the Master Code timer.

DCI suggests setting the Master Code timer at least one day longer than the User Code timer. Used with the **Refresh Master Timer** option, this gives the operator time to notice the warning icon and enter the User Code before the Master Code expires and locks the receiver.

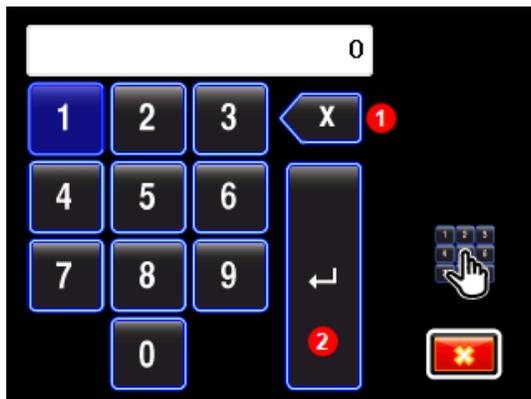
### Change User Code



Use this option to display the current code. To change it, enter a new code of up to 12 digits, then select **Enter** to confirm. The receiver can only have one User Code at a time. The code cannot start with zero. DCI recommends using a minimum of six digits.



You will only enter these digits once. Before selecting **Enter** to confirm, check your number carefully to ensure it is correct.



1. Backspace
2. Enter

User Code Keypad

## Refresh Master Timer



With this option enabled (✓ in icon), entry of the User Code will also refresh the Master Code [timer](#) (see page 14). If you do not want the Master Code timer to refresh automatically, select to clear the check box on the icon.



While **Refresh Master Timer** (see the first [FAQ](#) on page 17) is convenient for the equipment owner, it allows anyone who learns the User Code to enter it daily and operate the receiver indefinitely without knowing the Master Code.

## Frequently Asked Questions (FAQs)

### What settings does DCI suggest for LOC™?

This depends on factors like how quickly you want the receiver to lock, how soon you want the expired User Code icon to appear, and how often you want to enter the Master Code to keep the receiver operational.

**For a small business** with just one receiver, consider using just a **Master Code**. The timer duration is entirely up to you. The shorter the duration, the more often the receiver will need to be returned to you for entry of the Master Code. If you want to see your receiver every day, set a duration of 1 day. If you're okay with it being out of sight for a week, try 7 days. If the Master Code timer expires, the receiver will lock.

**For a medium-sized business** where you may not always be readily available to enter a Master Code, try a longer **Master Code** timer of two months, and add a **User Code** timer of one day. Users will need to enter the User Code daily to keep the stopwatch icon off the locating screen and will still need to return the receiver to you at least every two months for entry of the Master Code.

**For a larger business**, and especially with multiple receivers, you don't want to be entering Master Codes every other day, nor do you want to risk work stoppages because a receiver locked and you're six hours away in another county. In this case, start with a **Master Code** timer of 30 days, a **User Code** of seven days, and enable the **Refresh Master Code** feature. Each Monday when your worker enters the User Code, the Master Code will also refresh to a full 30 days without any help from you. If you are concerned that the receiver may go unused for longer than 30 days and consequently lock, make the Master Code timer longer.

In any of these cases, make sure you have the LOC decal on your receiver. It tells everyone that you've got your receiver on a short leash.

### Why do I need a User Code and a Master Code?

You only need a Master Code to set a timer that will lock the receiver. Only the Master Code opens the Lock menu that allows you to change LOC™ settings like code numbers and timer durations. Only the Master Code will reset a locked Falcon.

An optional User Code with the **Refresh Master Timer** feature enabled gives you more flexibility on how you implement LOC™. With this setting, the Master Code timer will refresh whenever the User Code is entered, without requiring the Master Code or allowing access to the Lock menu.

## How do I unlock my Falcon?

If the User Code expires, the receiver continues operating normally (see second question above) but continued use is subject to the Master Code timer.

If the Master Code expires, the receiver powers on to a keypad or the initial setup screen. Click if needed to display the keypad, then enter the Master Code to unlock the receiver, which also resets the Master Code timer (and User Code timer, if it is on).

If you have forgotten or lost your Master Code, check if it was recorded in the [Initial Setup Values](#) section on page 5. If not, refer to your receiver's **Turning on LOC** section in this document (page 6 for Falcon F2/F2 or page 12 for Falcon F5).

## Why does DCI require product registration?

All Falcon receivers ship with the LOC™ feature turned off. The information provided when this equipment was registered with DCI (either online at [access.DigiTrak.com](https://access.DigiTrak.com) or with the mail-in warranty card) allows us to confirm ownership before enabling LOC™.

## Why doesn't the receiver lock when the User Code expires?

When a User Code expires, a stopwatch icon appears on the locating screen above the roll indicator to alert the operator that continued use is subject to the Master Code timer. The Master Code timer remains in effect and will eventually lock the receiver.

# End User License Agreement (EULA)

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## Lock-Out Capability (LOC™)

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– End of User Guide –