

EntelliGuard® G Circuit Breaker Accessories

Key Interlock Kit Breaker Mounted

Introduction

Key Interlock Kit:

The breaker key lock is an optional accessory, which will keep the breaker in trip free state while locked. Maximum 4 keys of Ronis/Profalux or Kirk type can be used. All EntelliGuard Devices can be equipped with one of the three locks, that when fitted as indicated allow the use of one to four key locks that lock the device in its open position.



Figure 1. (A) Front Cover



WARNING: Before installing any accessories, turn the breaker OFF, disconnect it from all voltage sources, and discharge the closing springs.



AVERTISSEMENT: Avant d'installer tout accessoire, mettre le disjoncteur en position OFF, le déconnecter de toute tension d'alimentation, et décharger les ressorts d'armement

Devices are found in two Variants:

1. Factory mounted mechanism:
The breaker/device is supplied off works with all cams and screws allowing the user to mount a separately acquired ABB lock kit.
2. Field mountable device:

A kit is supplied allowing the field mounting of the locking mechanism and allowing the use of a lock of the correct type purchased elsewhere

Catalog Number:

Catalog No	Description
GBKRKR	Kirk Key Interlock kit
GBRONR	Ronis Interlock kit
GBPROR	Profalux Interlock kit

Installation of kit

Use the following procedure to install the Key Interlock Key accessory into the circuit breaker.

1. Turn the breaker off and discharge the closing springs by depressing the OFF and ON buttons in the sequence OFF-ON-OFF. Verify that the breaker OFF-ON indicator shows OFF and that the charge indicator shows DISCHARGE. If installing in a draw-out type breaker remove breaker from adaptor (cassette) before continuing.

2. Loosen the 6 screws on front cover (fascia) using a posidrive screw driver as shown in Fig 1.B Rotate the charging handle down and slide the front cover over the handle to remove the front cover as shown in Fig. 1.C.

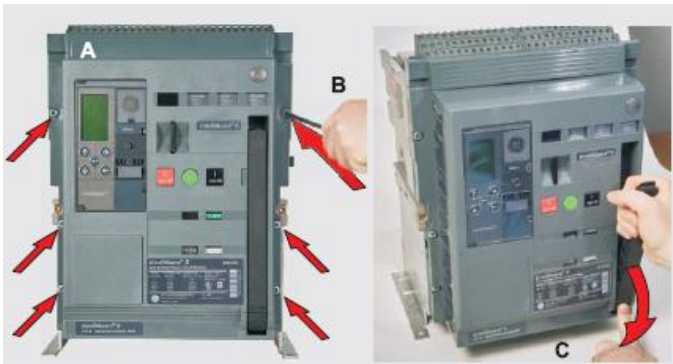


Figure 1. (B) Screw Removal (C) Handle Rotation

3. If the locking mechanism device has been supplied factory fitted, remove the bracket and cover from the EntelliGuard device. If supplied as a field mountable kit, please proceed to step 4.

4. Take the Lock cover and carefully break out the openings needed to place the required number of locks

5. Fix each lock to the lock bracket using the fixation nuts as indicated in Fig. 2

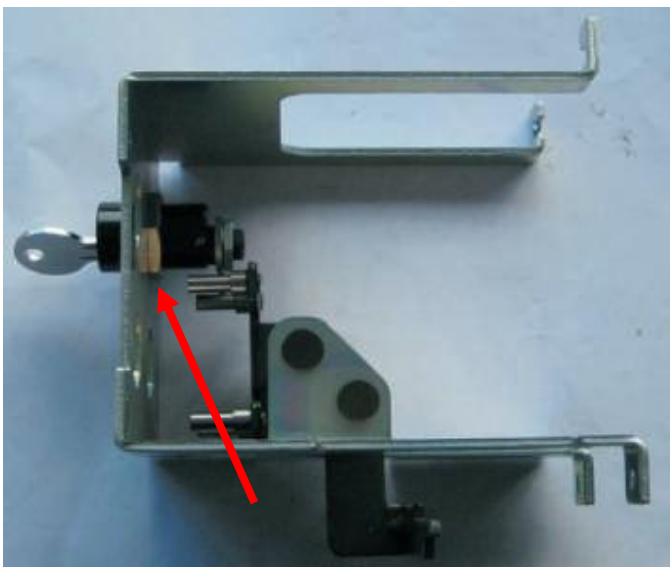
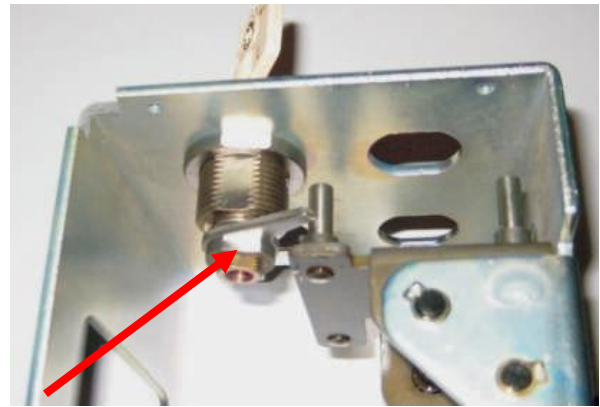
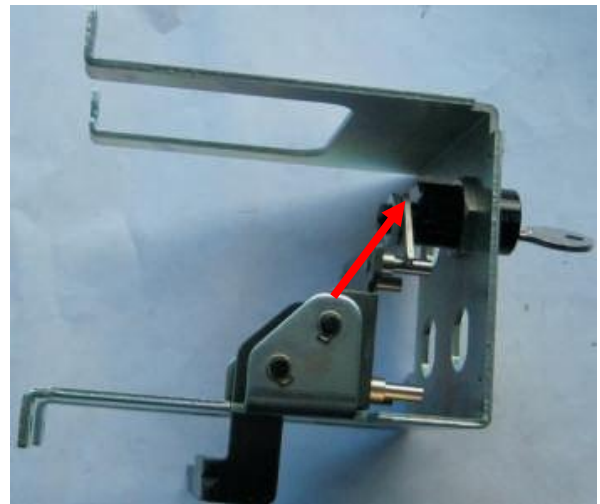


Figure 2.

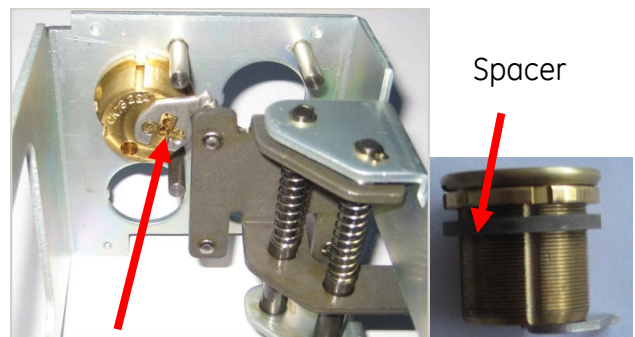
6. Using the nut supplied with each lock fix the activating CAM. Ensure that the CAM is positioned as indicated in fig. 3. For Kirk Lock, insert the spacer and fix the cam supplied with the Kit using the screws provided in the lock.



Ronis lock



Profalux lock

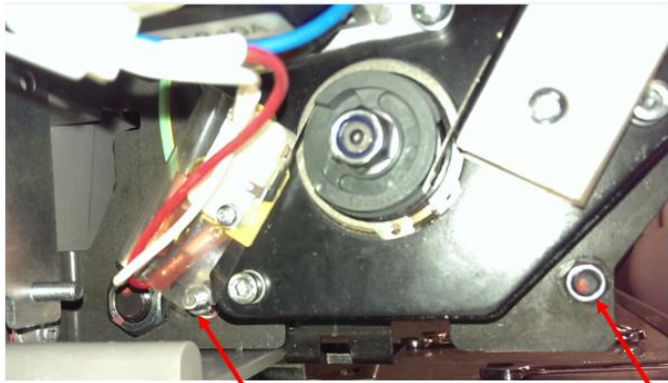


Kirk lock

Figure 3.

7. Using the supplied screws fit the cover onto the mechanism.

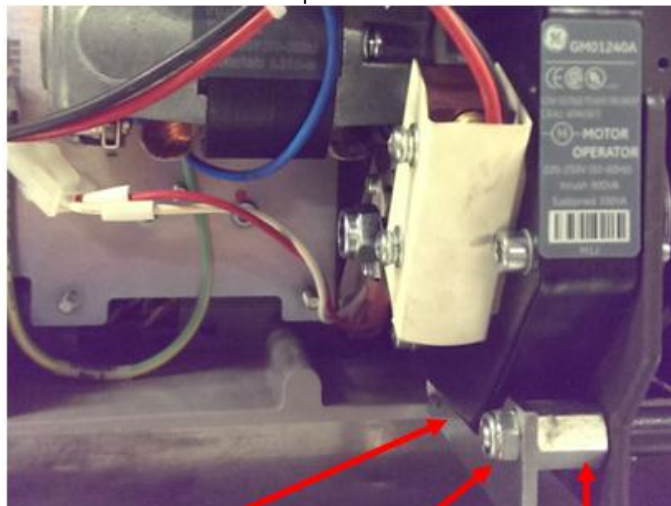
8. Uninstall the Motor operator (Optional if present), Grounding nut & Nylock nut as shown. Fig 4.



Grounding nut
Nylock nut
Figure 4.

9. Install adaptor nut and torque to 6Nm. Mount the support bracket on grounding stud and adaptor nut at other end. Secure support bracket with hardware removed/provided. Torque to 6Nm. Fig 5

Install the Motor operator (if uninstalled) Refer DEH41413 for Motor operator installation.



Support bracket
Nylock nut
Adaptor nut
Figure 5.

10. If the locking mechanism device has been supplied factory fitted. Remount the mechanism with its cover into the breaker, making sure that the operating lever moves freely and interacts correctly with the breaker mechanism. (Fig. 6)



Figure 6.

11. If supplied as a field mountable kit carefully remove the dummy lock cover from the Breaker. Mount the Lock mechanism with its cover into the breaker, making sure that the operating lever moves freely and interacts correctly with the breaker mechanism. (See Fig. 7A, 7B, 7C).

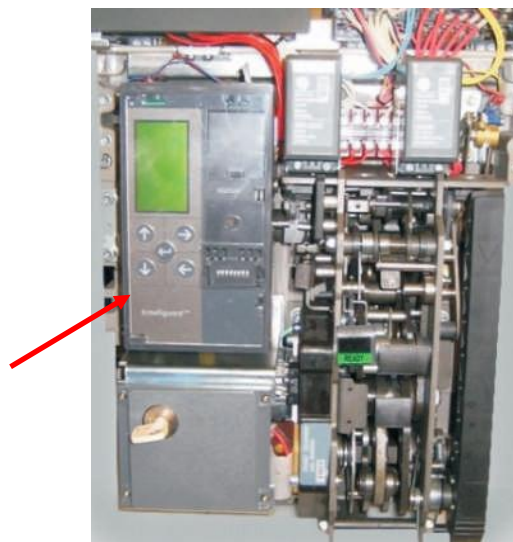


Figure 7A.

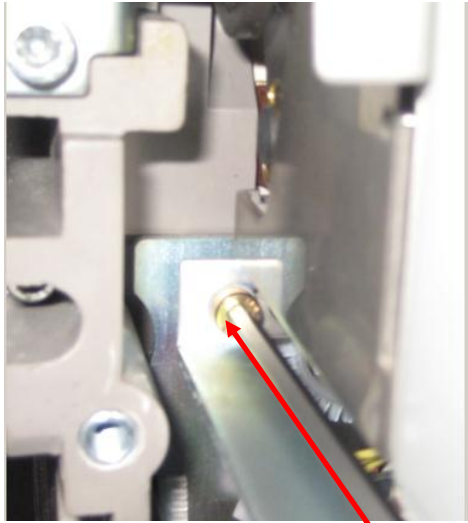


Figure 7B. Tighten to 6 Nm (4.42ft-lbs)



Figure 8.

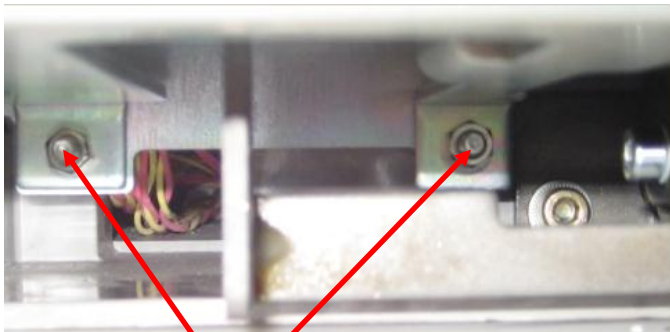


Figure 7C.

Tighten to 6 Nm (4.42ft-lbs)

12. To reinstall the cover, rotate the charging handle down and slide the front cover over the handle to assemble the front cover to housing as shown in Fig. 8.

14. Ensure the fascia is aligned properly with the trip unit and the pad lock features of the breaker.

15. Fasten the 6 mounting screws of fascia with the housing using a pozidrive screwdriver. Apply torque of 6 Nm (4.42ft-lbs).

Breaker key lock Operation:

Use the following procedure to operate the padlock:

1. Depress the OFF pushbutton on the breaker front Fascia and extend/pull the breaker padlock lever to its' outer position.
2. With the padlock lever extended, rotate one or more of the keys anticlockwise. The key can then be removed thus locking the breaker in its open position.
3. With padlock lever extended, insert the key and rotate in clockwise to unlock.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the ABB Inc.