

Updating the GX-Force for Leak Check Mode Operation
3/25/24

Materials:

- Windows computer with Windows 7 or higher
- USB A to USB C cable
- GX-Force

Instructions:

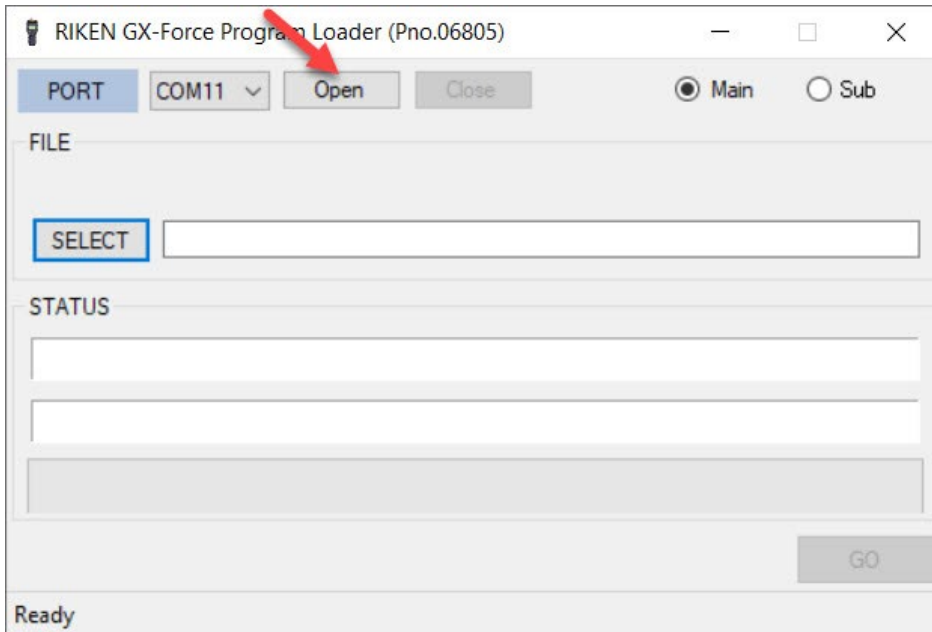
1. Install the GX-Force drivers from the Software page on the RKI website if a GX-Force has never been connected to your computer.
2. Install the Program Loader program and the Setup program onto your computer.
3. Turn the GX-Force off if it is on.
4. Connect the GX-Force to the computer using the USB cable.



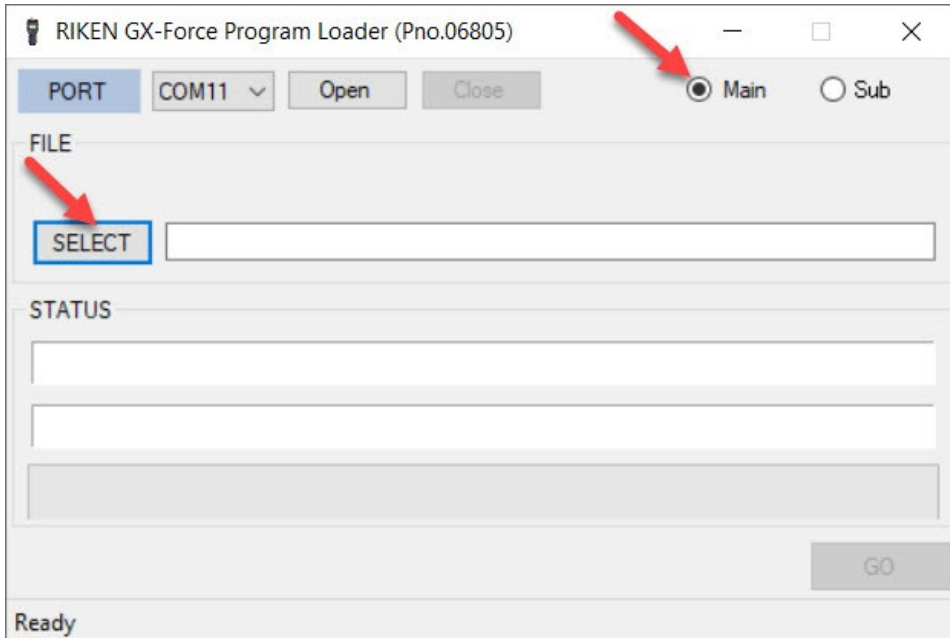
5. Launch the GX-Force Program Loader program from the computer's Start menu.
6. If necessary, select the COM port for the GX-Force.

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7. Click the Open button in the Program Loader interface.

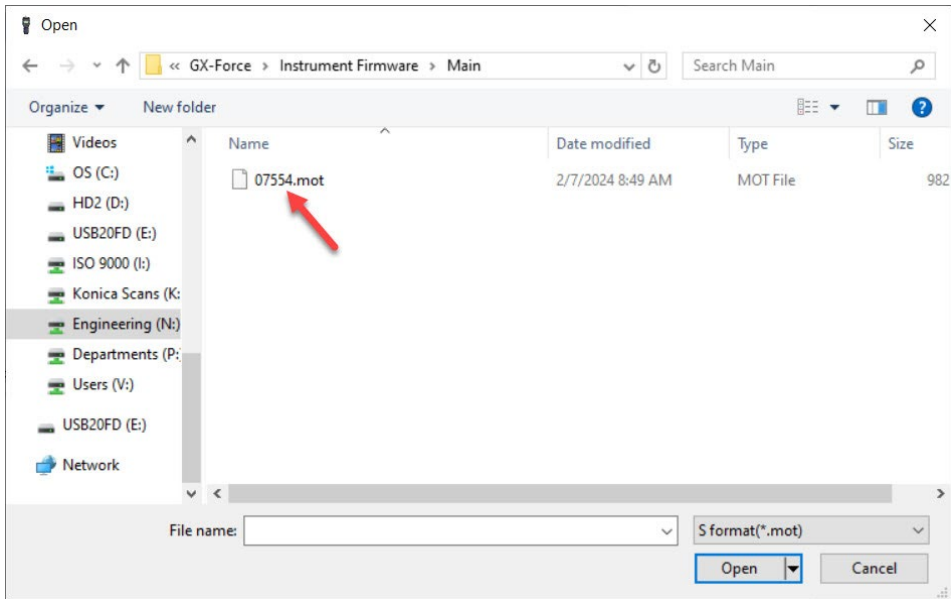


8. Click the "Main" radio dot and then click "Select".



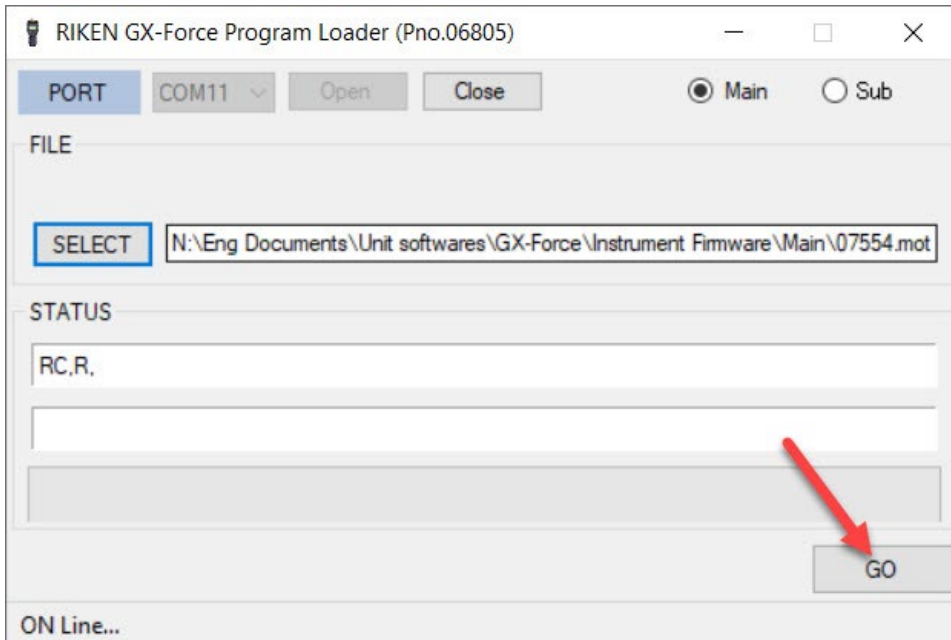
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9. Navigate to the Main firmware file for the GX-Force and double click the .mot file.



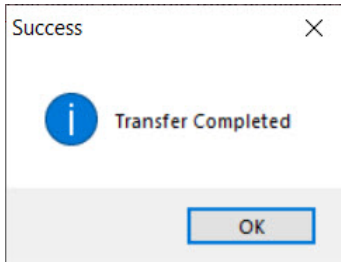
10. Turn on the GX-Force.

11. Click Go. The program screen indicates the transfer is starting and the GX-Force screen says "UPDATE".

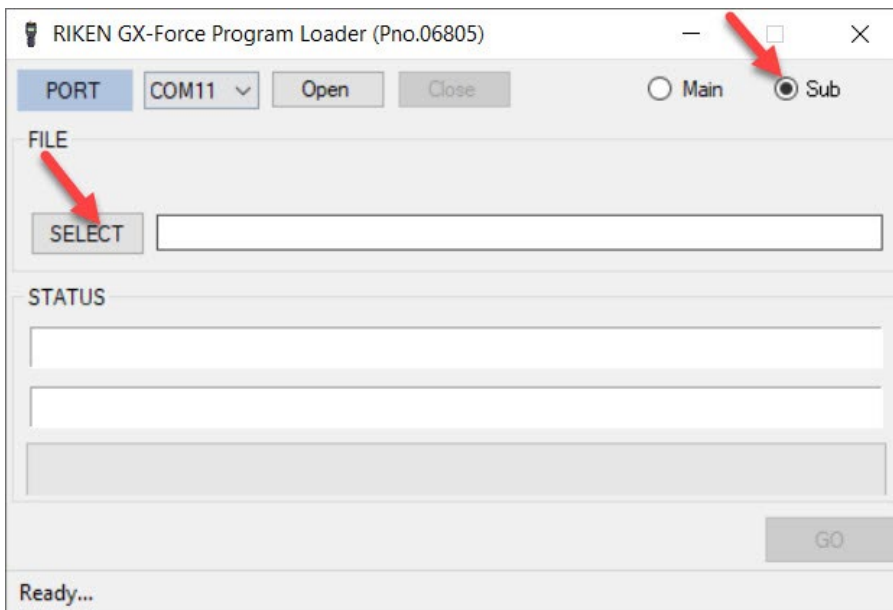


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12. The program will indicate the transfer is complete. Click OK. The GX-Force will be turned off.

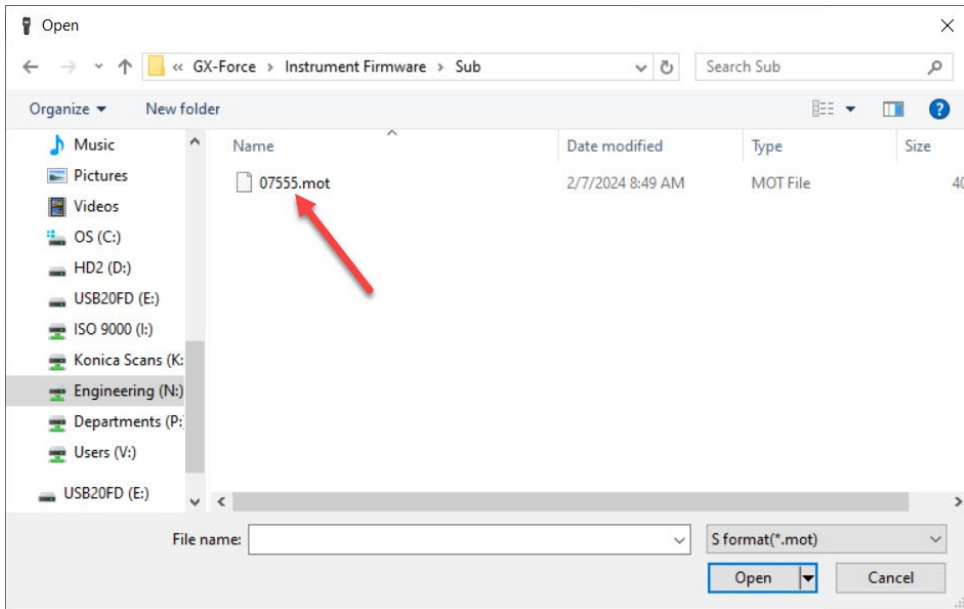


13. Click the "Sub" radio dot and then click "Select".

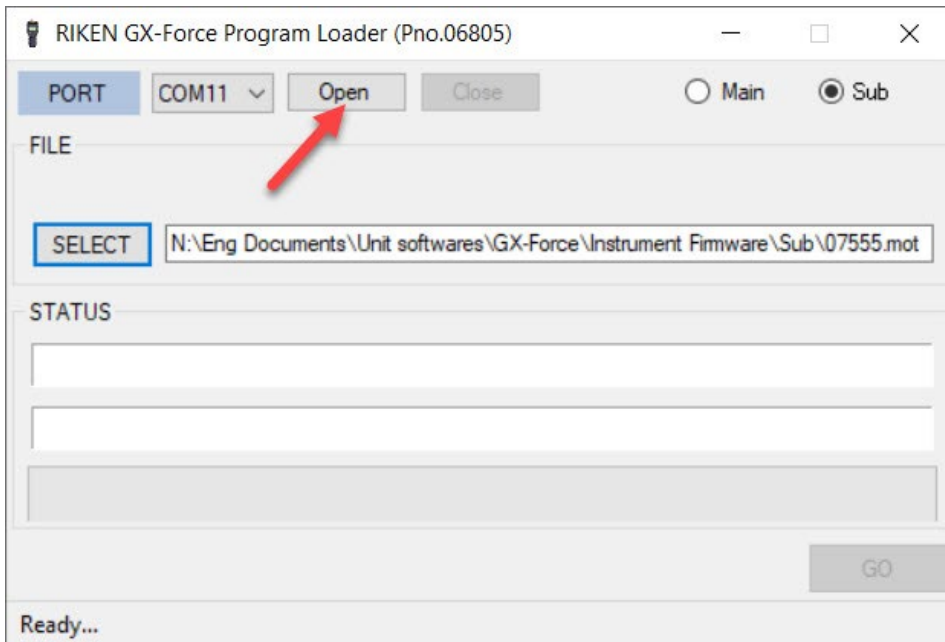


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14. Navigate to the Sub firmware file for the GX-Force and double click the .mot file.



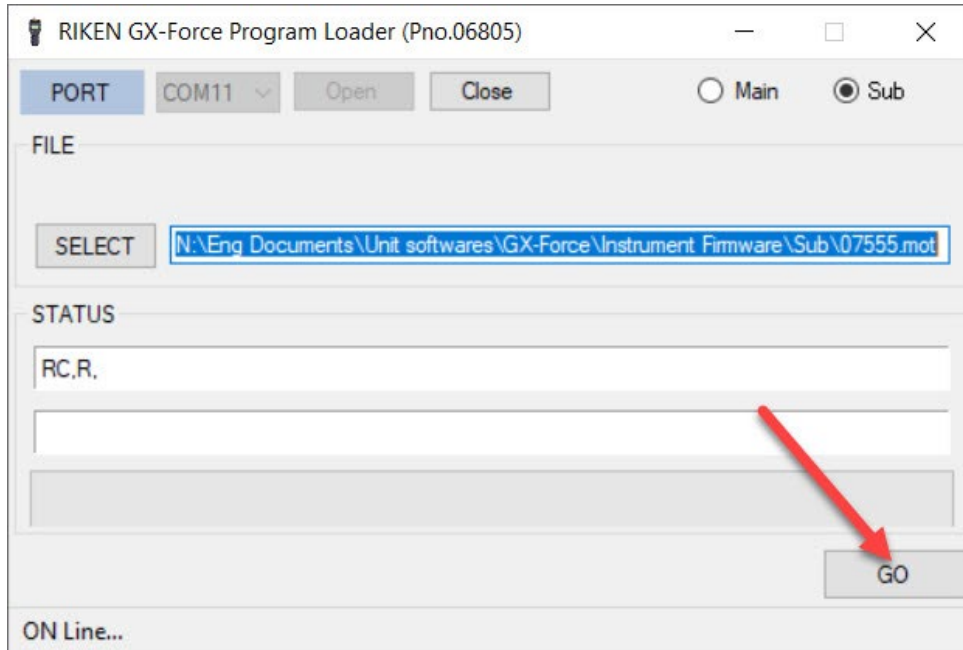
15. Click the Open button.



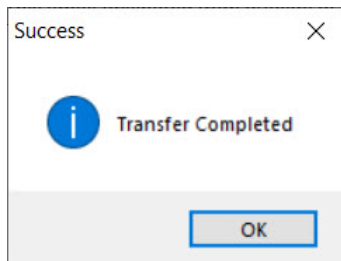
16. Turn the GX-Force back on.

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17. Click “Go”. The program screen indicates the transfer is starting and the GX-Force screen says “UPDATE”.



18. The program will indicate the transfer is complete. Click OK. The GX-Force will be turned off.



19. Launch the GX-Force Config program from the computer’s Start menu.
20. Enter **1939** into the password window.
21. Make sure the GX-Force is still connected to the computer via USB cable.
22. Turn on the GX-Force.

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23. Once connection is established, click “Instrument Information”.

The screenshot shows the 'GX-Force - Setup Program [P.No.07586]' window. The 'Status' section at the top left shows 'Serial Port' and 'Connect' both with green indicator lights. Below this, the 'Download State' area displays the message 'GX-Force ..Connection Successful.' in blue text. The 'Read Commands' section contains two buttons: 'Instrument Information' and 'Information Get & Save'. A red arrow points to the 'Instrument Information' button. To the right, the 'Write Commands' section includes buttons for 'Update', 'Update ID', 'Date/Time Set', 'Calibration', and 'Clear Logger Data'. The 'Setting Commands' section includes buttons for 'Power Off', 'Detail Settings', 'Change password', 'Exit', 'Load local file', 'Store local file', and 'Restore Default Settings'. Below these sections is the 'GX-Force Status' area, which contains various input fields for 'Program Number', 'SUM', 'Version', 'PC Date/Time' (set to 2/9/2024 8:50:33 AM), 'GX-Force Date/Time', 'BLE Program No', 'Serial No. (20 Characters)', 'Station ID (16 Characters)', 'User ID (16 Characters)', and 'Interval Trend Time (Sec)' (set to 300). A 'Reset alarm point' button is also present. At the bottom, there is a table for 'Warning and Alarm point' and 'Calibration'.

Gas	Warning and Alarm point				Calibration		
	Warning	Alarm	AlarmH	STEL	TWA	Auto Cal.	CAL Group
----	----	----	----	----	----	----	A
----	----	----	----	----	----	----	A
----	----	----	----	----	----	----	A
----	----	----	----	----	----	----	A

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24. Once the download is complete, click “Detail Settings”.

The screenshot shows the GX-Force Setup Program interface. The 'Download State' section displays the following messages:

```

GX-Force ..Connection Successful.
GX-Force Instrument Information Download.
GX-Force Instrument Information Download Complete.
    
```

The 'Setting Commands' panel on the right contains the following buttons: Power Off, Detail Settings, Change password, Exit, Load local file, Store local file, and Restore Default Settings. A red arrow points to the 'Detail Settings' button.

The 'GX-Force Status' section contains the following fields:

- Program Number: 07554, 07555
- SUM: 08E8, 5EE3
- Version: 02.001, 01.001
- PC Date/Time: 2/9/2024 8:51:30 AM
- GX-Force Date/Time: 2/9/2024 8:51:30 AM
- Gas Table (Ver/SUM): 07554, 5878
- BLE Program No: *****
- Serial No. (20 Characters): 267010005
- Station ID (16 Characters): SID_004
- User ID (16 Characters): UID_005
- Interval Trend Time (Sec): 300
- BLE auto shutoff when idle

The 'Warning and Alarm point' table is as follows:

Gas	Warning and Alarm point					Calibration	
	Warning	Alarm	AlarmH	STEL	TWA	Auto Cal.	CAL Group
CH4(100%LEL)	10	50	50	-----	-----	50	A
O2(40.0%)	18.0	18.0	25.0	-----	-----	13.0	A
H2_CO-H2(2000ppm)	-----	-----	-----	-----	-----	25	A
CO CO-H2(2000ppm)	25	50	50	200	25	40	A

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25. Click the drop down menu next to “Leak Check Mode” and select “On”.

GX-Force Factory Setting

Station & User Parameter

Maintenance User Disp

Pump Change Date		220101
Battery Change Date		220101
Alarm Pattern	Latch	
Zero Adjustment on Demand	On	
Auto Zero Adjustment	Off	
ID Display	Off	
Display of pump stop start.	On	
Alarm Silence	On	
DISP Suppress	On	
DISP Zero Follower	On	
Enable Maintenance Password	On	
Maintenance Password		9999
Password Protection	Off	
Leak Check mode	On	
Full Scale for Leak Check	Off	
Leak Check Buzzer	On	
Leak Check display contents	NC	

	Sensor Change Date	Suppress	Zero Follower
CH4(100%LEL)	220101	On	On
O2(40.0%)	220101	On	On
H2_CO-H2(2000ppm)	220101	On	On
CO_CO-H2(2000ppm)	220101	On	On

(Left space 0)

OK Cancel

26. Click “OK”.

GX-Force Factory Setting

Station & User Parameter

Maintenance User Disp

Pump Change Date		220101
Battery Change Date		220101
Alarm Pattern	Latch	
Zero Adjustment on Demand	On	
Auto Zero Adjustment	Off	
ID Display	Off	
Display of pump stop start.	On	
Alarm Silence	On	
DISP Suppress	On	
DISP Zero Follower	On	
Enable Maintenance Password	On	
Maintenance Password		9999
Password Protection	Off	
Leak Check mode	On	
Full Scale for Leak Check	100%F.S.	
Leak Check Buzzer	On	
Leak Check display contents	NC	

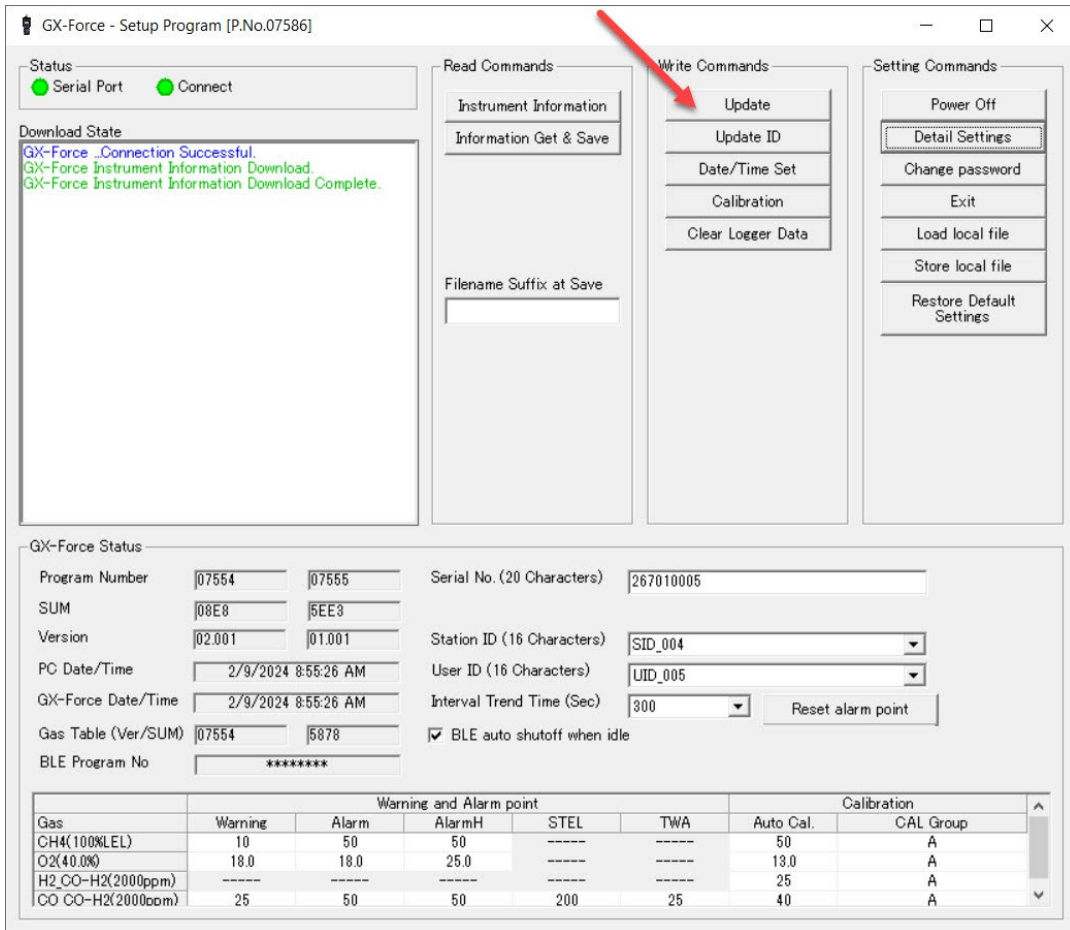
	Sensor Change Date	Suppress	Zero Follower
CH4(100%LEL)	220101	On	On
O2(40.0%)	220101	On	On
H2_CO-H2(2000ppm)	220101	On	On
CO_CO-H2(2000ppm)	220101	On	On

(Left space 0)

OK Cancel

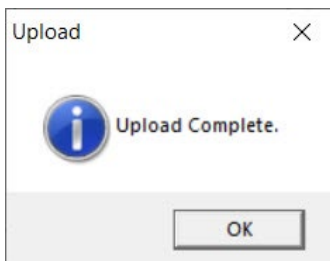
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27. Click “Update”.



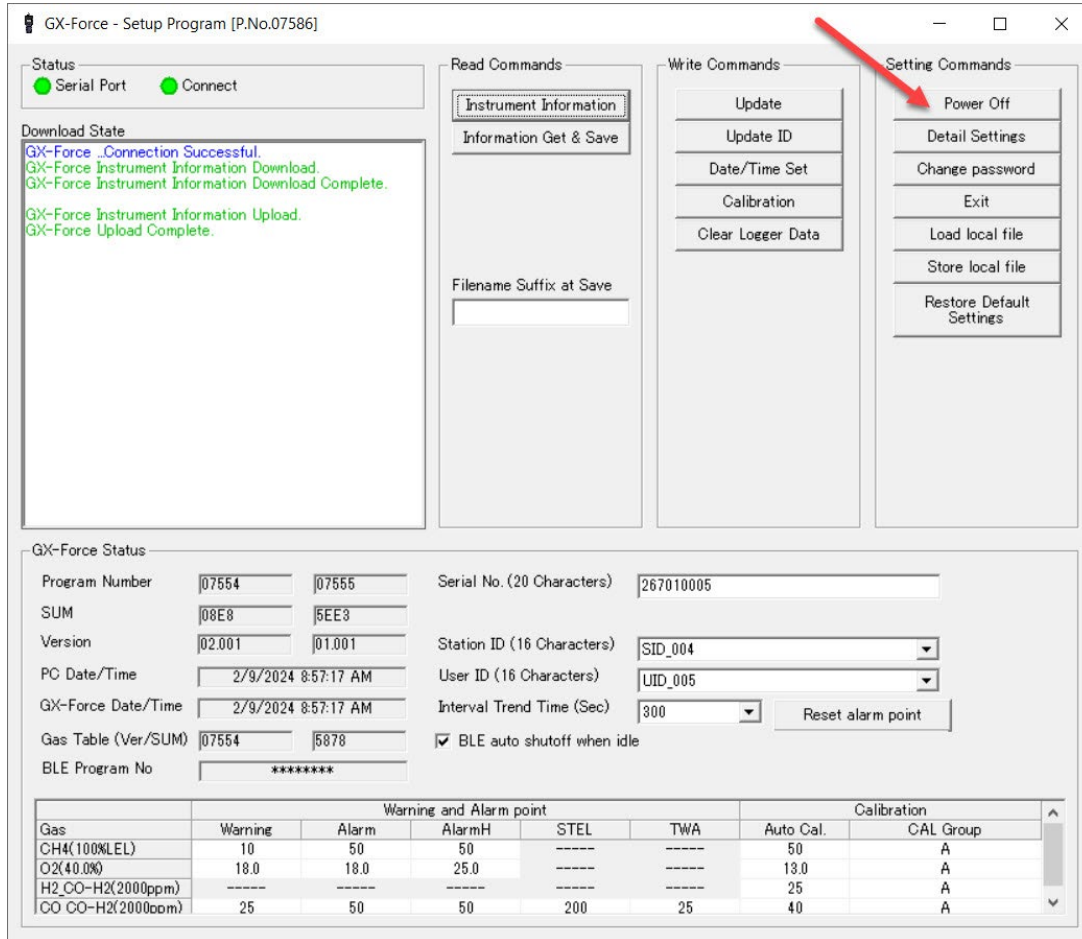
28. Click “Yes” in the popup window that appears.

29. The unit will update. Click “OK” once the update is done.



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30. Click “Power Off”.



The screenshot shows the GX-Force Setup Program [P.No.07586] interface. The 'Setting Commands' panel on the right contains a 'Power Off' button, which is highlighted by a red arrow. Other buttons in this panel include 'Detail Settings', 'Change password', 'Exit', 'Load local file', 'Store local file', and 'Restore Default Settings'. The 'Write Commands' panel includes 'Update', 'Update ID', 'Date/Time Set', 'Calibration', and 'Clear Logger Data'. The 'Read Commands' panel has an 'Instrument Information' button and 'Information Get & Save'. The 'Download State' section shows successful download and upload messages. The 'GX-Force Status' section displays various parameters like Program Number, SUM, Version, PC Date/Time, GX-Force Date/Time, Gas Table, and BLE Program No. A table at the bottom shows Warning and Alarm points for different gases.

Gas	Warning and Alarm point					Calibration	
	Warning	Alarm	AlarmH	STEL	TWA	Auto Cal.	CAL Group
CH4(100%LEL)	10	50	50	-----	-----	50	A
O2(40.0%)	18.0	18.0	25.0	-----	-----	13.0	A
H2_CO-H2(2000ppm)	-----	-----	-----	-----	-----	25	A
CO CO-H2(2000ppm)	25	50	50	200	25	40	A

31. Disconnect the USB cable from the GX-Force.