

24 Replacing the X-ray Generator



WARNING: Before removing the covers, you **MUST** switch **OFF** the unit **AND** disconnect the unit from the main power supply by switching **OFF** the circuit breaker in the electrical cabinet.

ONLY an approved Carestream technician is qualified to inspect or maintain the unit while it is switched on and while the covers are removed. In this case, **NO** unqualified person must approach the unit.

Description

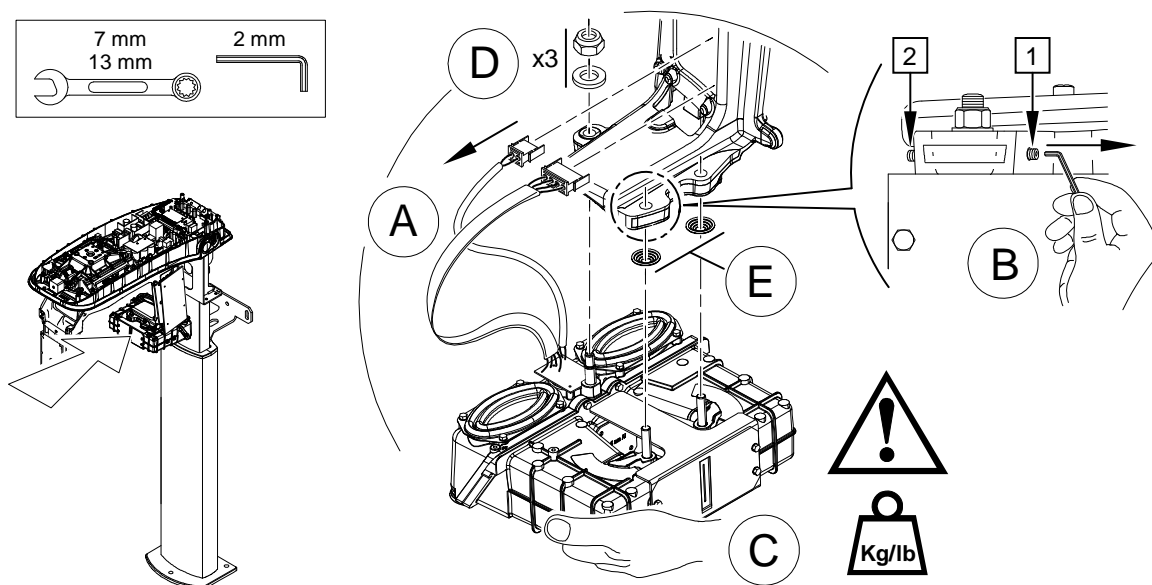
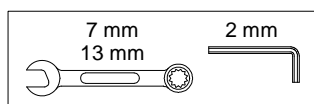
The X-ray generator:

- Supplies high-voltage circuit power to the X-ray tube.
- Enables the selection of kVp, mA, and exposure time.

Removing the X-ray Generator

Before removing the X-ray generator, make sure that:

- The unit is **disconnected from the main power supply** by switching **OFF** the circuit breaker in the electrical cabinet.
- The unit is switched **OFF**.
- The rotative arm covers are removed.
- You have the required tools.



To remove the X-ray generator, follow these steps:

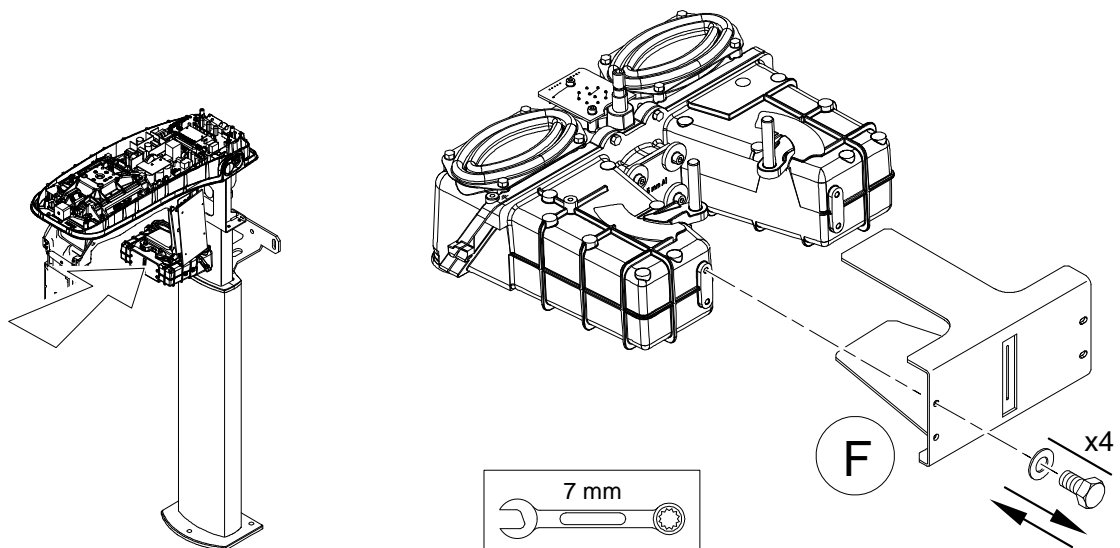
1. Disconnect the two X-ray generator cables from the generator power board **(A)**.
2. Loosen the **two** adjustment screws **(B)**.

3. Support the X-ray generator with one hand (C).
4. Undo the three lock nuts (D) and remove the washers with your other hand.



WARNING: The X-ray generator is **HEAVY**. Take great care not to drop it when you undo the securing nuts.

5. Carefully lower the X-ray generator.
6. Remove the two springs (E).
7. Undo the **four** screws holding the secondary collimator assembly in place (F).



8. Remove the secondary collimator assembly.

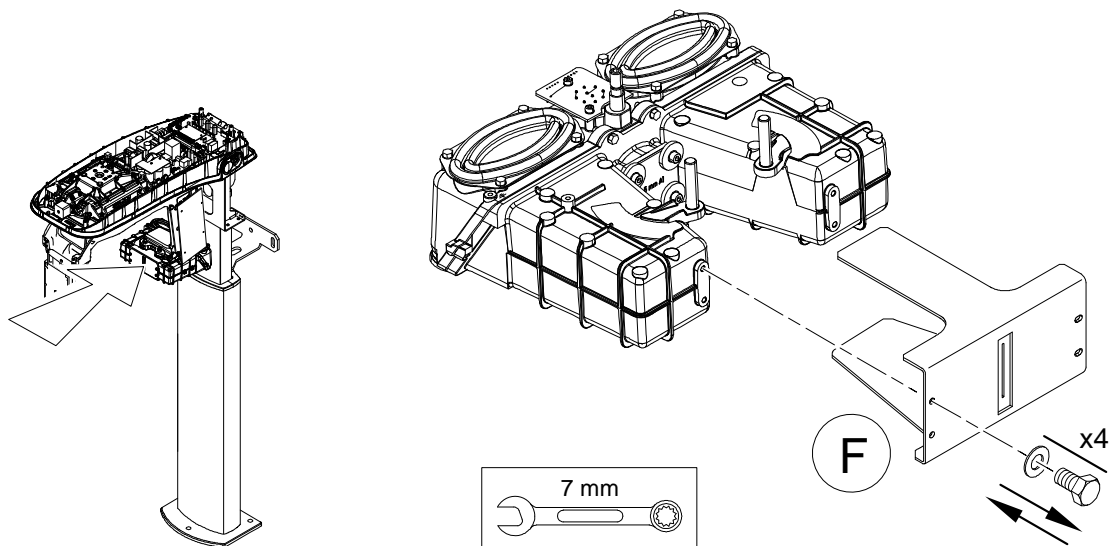
Replacing the X-ray Generator

Before replacing the X-ray generator, make sure that:

- The unit is **disconnected from the main power supply** by switching OFF the circuit breaker in the electrical cabinet.
- The unit is switched OFF.
- You have the appropriate X-ray generator.
- You have the secondary collimator assembly that you removed.
- You have three **new** lock nuts.

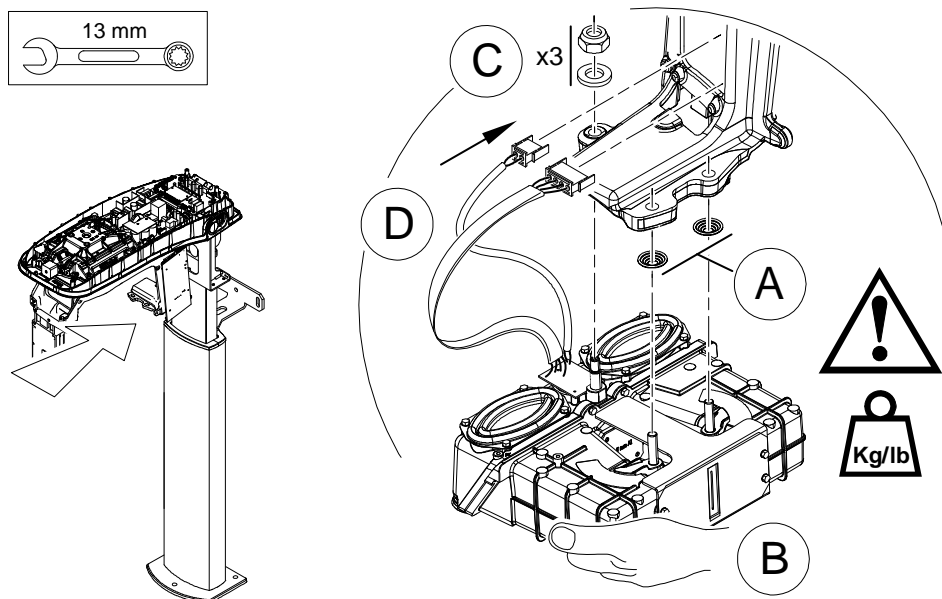
To replace the X-ray generator, follow these steps:

1. Place the secondary collimator assembly on the X-ray generator **F**.



2. Insert and tighten the **four** self-tapping screws.

3. Place the two springs in position on the X-ray generator **A**.



4. Support the X-ray generator with one hand **(B)** and position it in the three holes on the rotative arm.



WARNING: The X-ray generator is **HEAVY**. Take great care not to drop it when you tighten the securing nuts.

5. Place the three washers and **new** lock nuts in position with your other hand **(C)**.



Important: You must use three **NEW** lock nuts when replacing the X-ray generator.

6. Tighten the three **new** lock nuts.
7. Reconnect the two X-ray generator cables to the generator power board **(D)**.
8. Switch **ON** the circuit breaker in the electrical cabinet.
9. Switch **ON** the unit.
10. Using the **Service Tools**:
 - Calibrate the X-ray generator:
 - kV calibration.
 - mA calibration.
 - heating calibration
 - Calibrate the collimator.
 - Save the system and calibration parameters
(see [“Saving the System and Calibration Parameters”](#) on page 36).

Testing the X-ray Generator

To test the X-ray generator, follow these steps using the **Service Tools**:

1. Run the post installation procedure.
2. Register the intervention.
See [“Registering the Intervention”](#) on page 40.