

GTEMP-0225 Rev 1

Replacing the Front Motors for the Secondary Collimator



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.

1. Description

The front motors for the secondary collimator move the blades that direct the X-ray beam for image acquisition.

Tool Requirements

You must supply the following tools:

- Metric allen keys.
- Metric spanners.
- Flathead screwdriver.
- Cable extractor tool.

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Note: The tool references mentioned in this guide are ISO tool references.

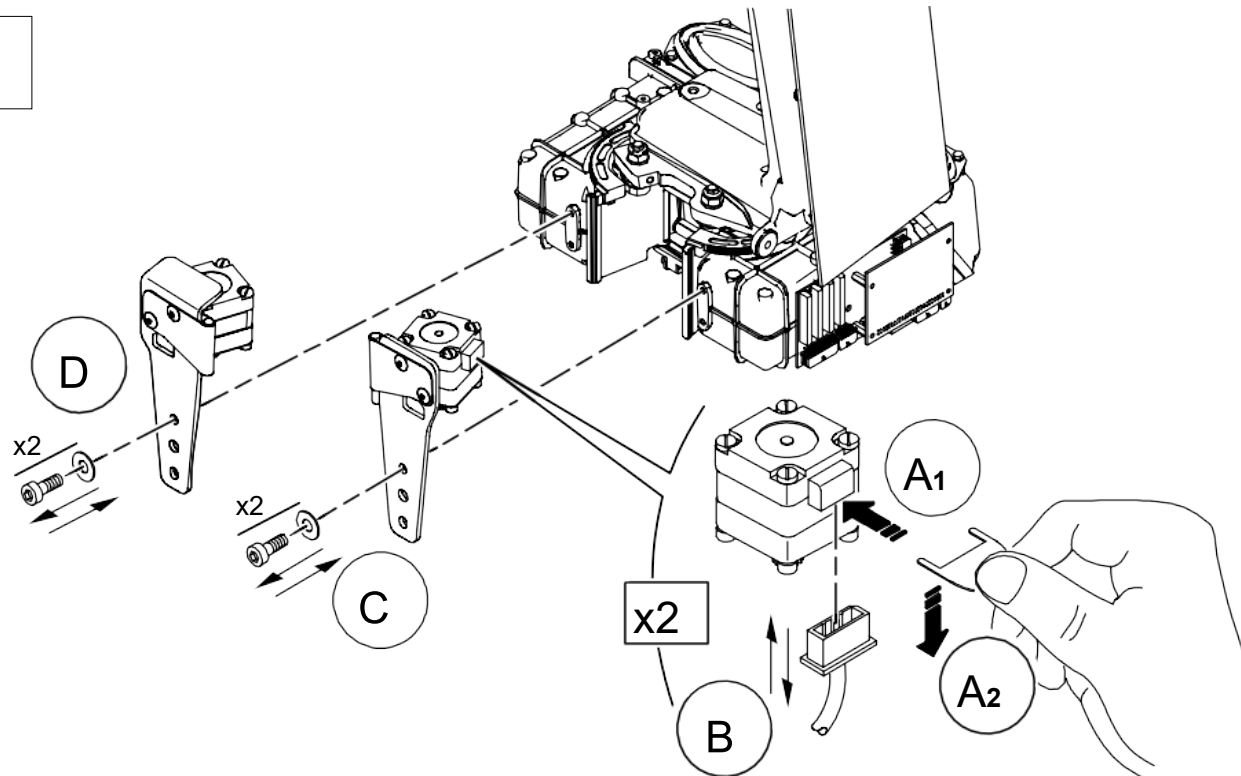
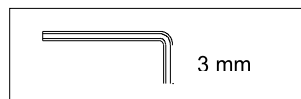
Before Removing or Replacing the Front Motors for the Secondary Collimator

Before removing or replacing the front motors for the secondary collimator, 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.
- You have the appropriate new front motors for the secondary collimator.






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2. Removing the Front Motors for the Secondary Collimator



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To remove the front motors for the secondary collimator, follow these steps:

1. Press the cable extractor tool against the cable connector  of the right motor.
2. Move the cable extractor tool downwards  to disconnect the cable  from the right motor.
3. Repeat steps 1 and 2 for the left motor.
4. Unscrew and remove the two screws and washers of the mounting brackets and remove both the front motors ( and ).




3. Replacing the Front Motors for the Secondary Collimator

To replace the front motors for the secondary collimator, follow these steps:

1. Position the left motor in line with the holes on the X-ray generator.



Important: The mounting bracket of the left motor has an additional protective cover on the top.

2. Insert and tighten the two screws and washers of the mounting bracket. 
3. Repeat steps 1 and 2 for the right motor. 
4. Reconnect the cables to each motor. 

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4. Testing the Front Motors for the Secondary Collimator

To test the front motors for the secondary collimator, follow these steps using the Service Tools:

1. Switch on the circuit breaker in the electrical cabinet.
2. Switch on the unit.
3. Calibrate the secondary collimator by running Full calibration procedure under Sensor collimation.
Follow the on-screen instructions.
4. Save the system and calibration parameters.

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