Replacing the Rotative Arm Cable Kit

⚠️ **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 rotative arm cable kit includes the following cables attached to a round plastic cable tray:

Cable	Purpose
CPA43 Cable	Connects the sensor to the CJ856 motor board
CPA44 Cable	Connects the CJ855 X-ray source power board to the JZ036 PFC board
CPA45 Cable	Connects the CJ857 movement detector board to the CJ856 motor board
CPA46 Cable	Connects the CJ855 X-ray source power board to the JZ036 PFC board
CPA47 Cable	Connects the sensor to the LAN

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Tool Requirements

You must supply the following tools:

- Metric allen keys.
- Metric spanners.
- Flathead screwdriver.
- Calibration tools.

> **(i) Note:** The tool references mentioned in this guide are ISO tool references.

Before removing or replacing the rotative arm cable kit, make sure that:
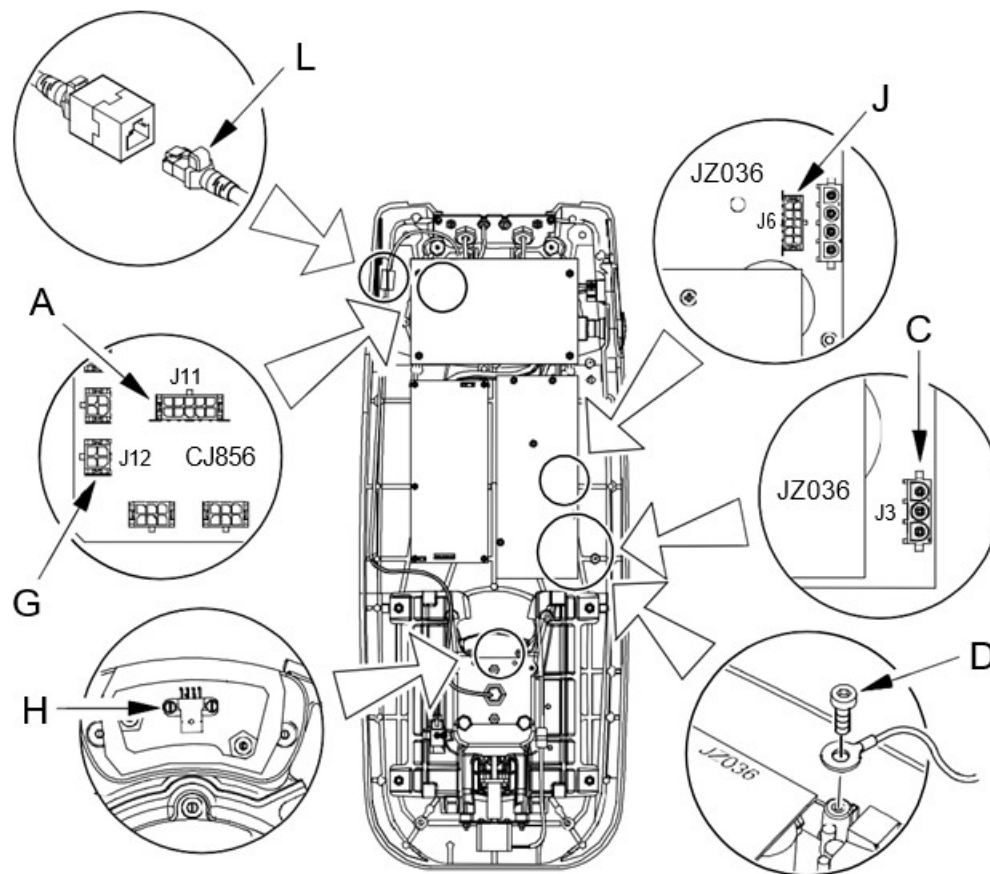
- The unit is disconnected from the main power supply by switching off the circuit breaker in the electrical cabinet.
- The unit is switched off.
- The head and chin rest is removed.
- The head cover is removed.
- The rotative arm covers are removed.
- You have the required tools.
- You have the appropriate new rotative arm cable kit.
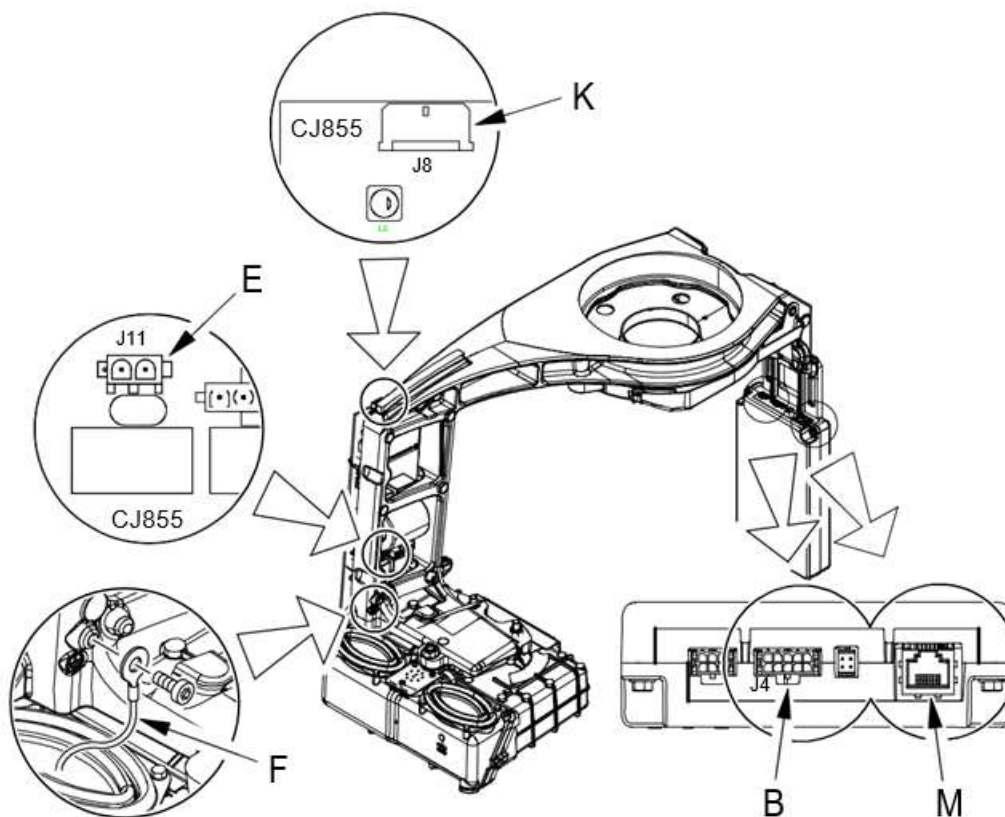
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2. Removing the Rotative Arm Cable Kit

To remove the rotative arm cable kit, follow these steps:

1. Turn the rotative arm clockwise as far as it goes.

2. Under the head, remove the screw holding the plastic cable tray in place and lower the tray.

3. Disconnect the following cables and cut the cable ties:

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This cable...	Connects to...	On the...
(A) CPA43 Cable	J11	CJ856 motor board
(B)	J4	Sensor
(C)	J3	JZ036 PFC board
(D) CPA44 Cable	Ground post	
(E)	J11	CJ855 X-ray source power board
(F)	Ground post	
(G) CPA45 Cable	J12	CJ856 motor board
(H)	J1	CJ857 movement detector board Important: Disconnect the CPA45 cable from under the unit head and not from the top.
(J) CPA46 Cable	J6	JZ036 PFC board
(K)	J8	CJ855 X-ray source power board
(L) CPA47 Cable	Ethernet cable connector	Left of the head near the column
(M)	J3	Sensor

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4. Carefully push the cables one at a time down through the motor assembly.

> ⚠ Important: Do NOT pull the cables from below. Push the cables from the top.

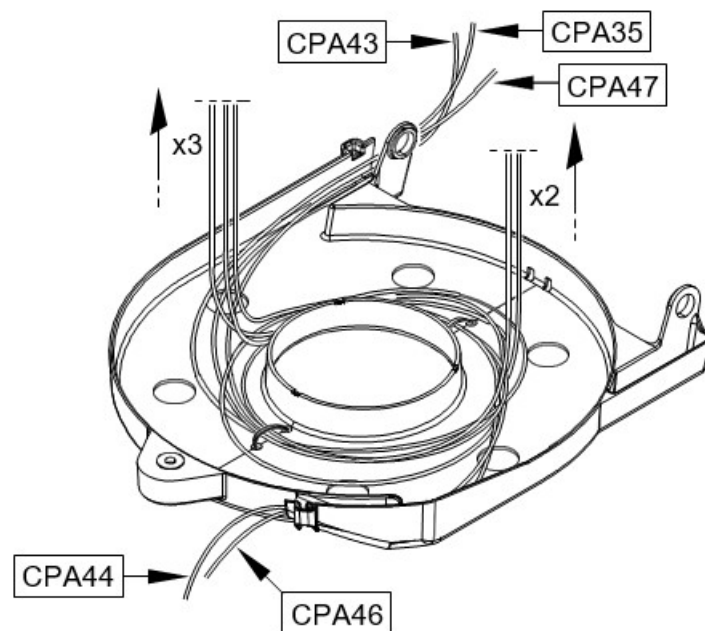5. Remove the plastic cable tray and the attached cables.

3. Replacing the Rotative Arm Cable Kit

To replace the rotative arm cable kit, follow these steps:

1. Turn the rotative arm as far as it goes clockwise (looking from the top).

2. Position the plastic cable tray under the head.

3. Pass the following cables one at a time from the plastic cable tray up through the movement assembly.

> CPA44 Cable and CPA46 Cable through the gap in the movement assembly on the right.
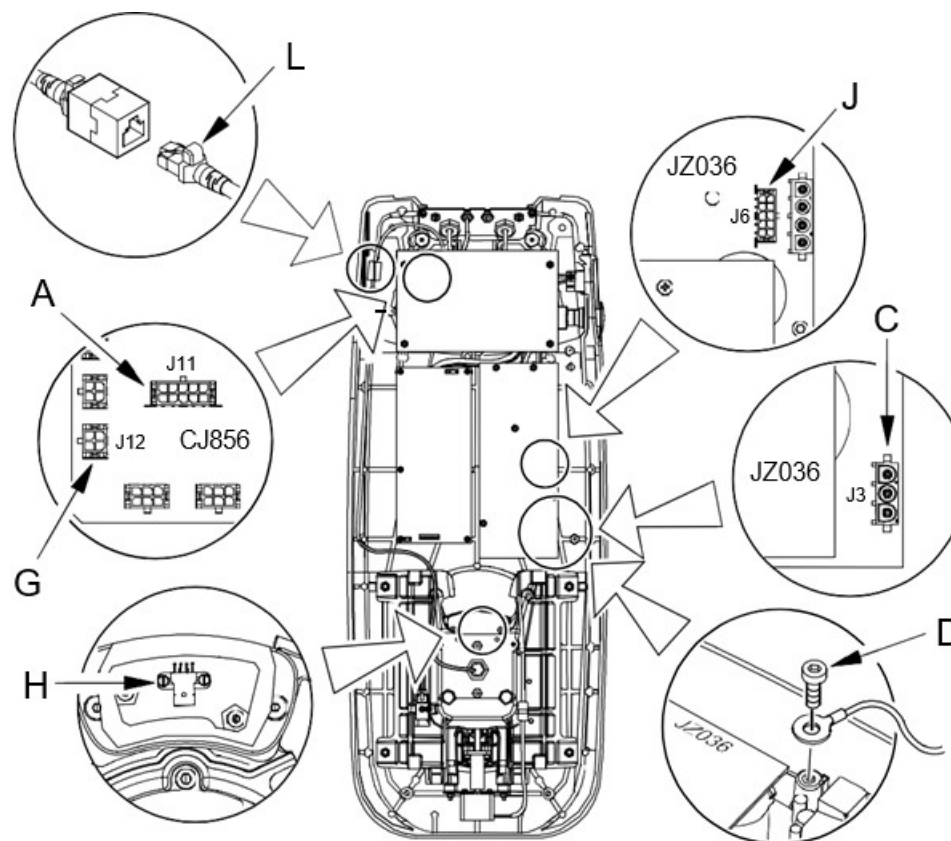> CPA43 Cable, CPA35 Cable, and CPA47 Cable through the gap in the movement assembly on the left.

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Tip: Pass the **larger** cables through the gaps first. For example, the CPA43 Cable with the ferrite ring.
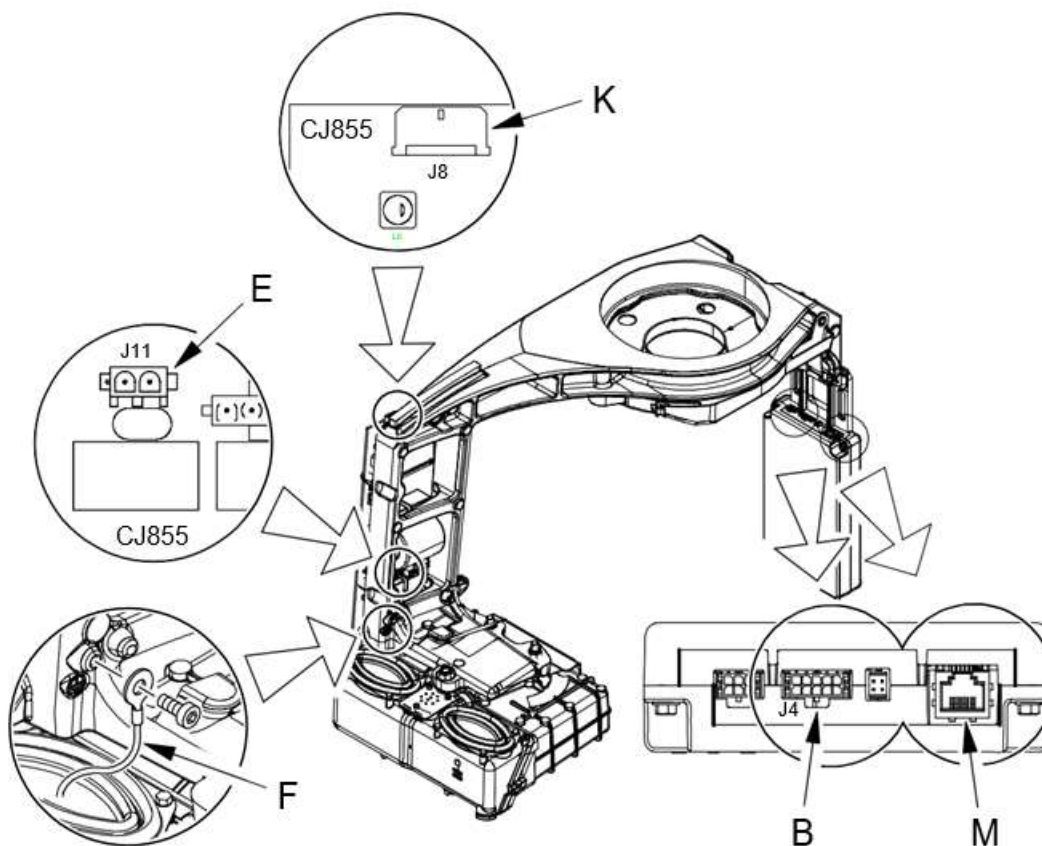
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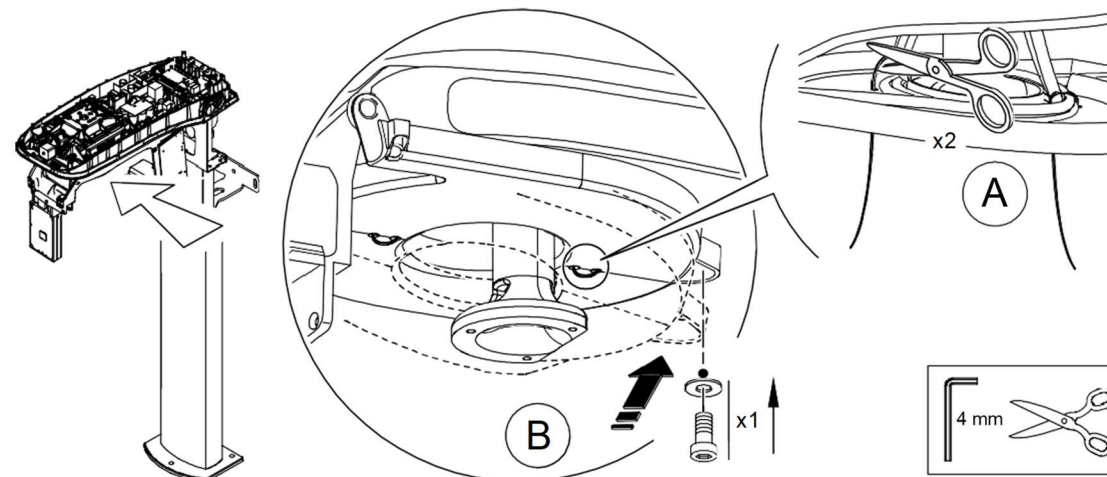
4. Connect the cables as follows:

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![Carestream Dental logo]

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This cable...		Connects to...	On the...
A	CPA43 Cable	J11	CJ856 motor board
B		J4	Sensor
C	CPA44 Cable	J3	JZ036 PFC board
D		Ground post	
E		J11	CJ855 X-ray source power board
F		Ground post	
G	CPA45 Cable	J12	CJ856 motor board
H		J1	CJ857 movement detector board
J	CPA46 Cable	J6	JZ036 PFC board
K		J8	CJ855 X-ray source power board
L	CPA47 Cable	Ethernet cable connector	Left of the head near the column
M		J3	Sensor

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5. Clip the plastic cable tray onto the two round lugs on the rotative arm.

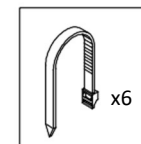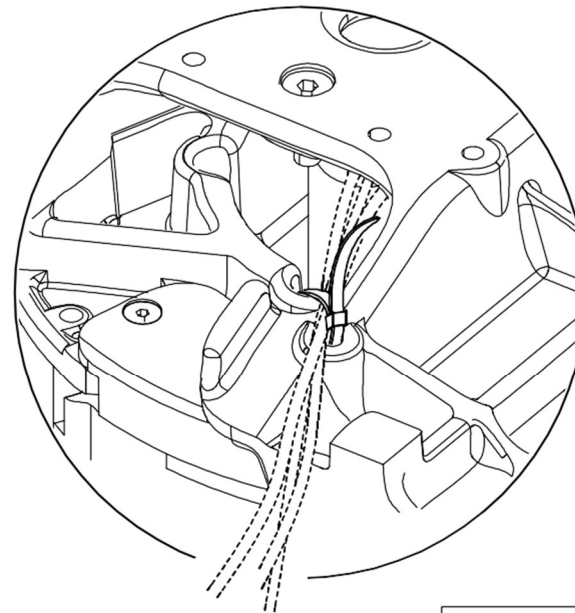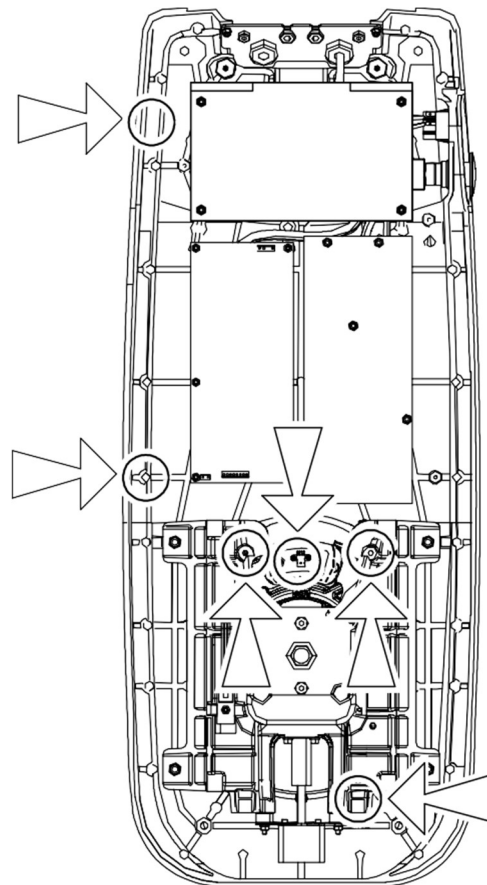6. Cut the two temporary cable ties (A) and refix the plastic cable tray with the screw (B).

7. Replace the cable ties on the movement assembly and in the head.

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Important: Do NOT overtighten the cable ties.

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8.   Turn the rotative arm by hand to make sure it moves freely and that no cables rub or are trapped.

4. Testing the Rotative Arm Cable Kit

To test the rotative arm cable kit, follow these steps using the Service Tools or Equipment Tools:

1.   Run the post installation procedure.
2.   Register the intervention.

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