Bel-Halo INSTALLATION INSTRUCTIONS



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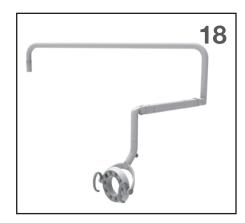


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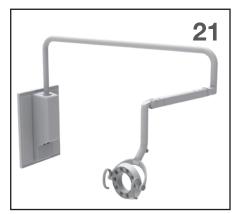
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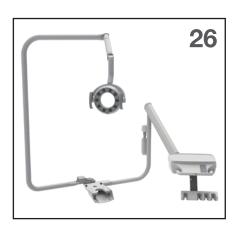


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(AL-D248G)

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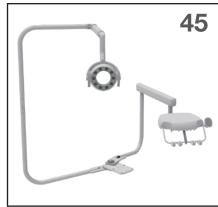


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(AL-D246G-EV)



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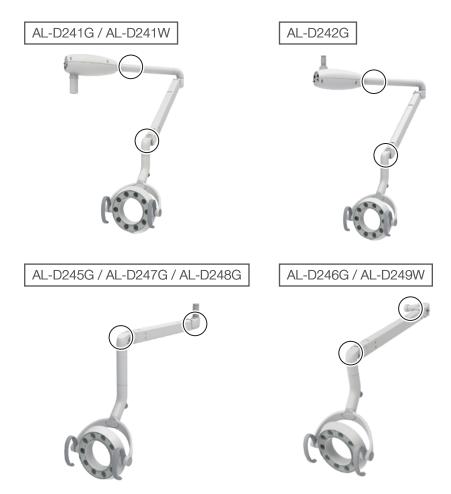
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Precautions for installation

1. During lifting of the dental light, make sure to hold the place shown in the figure below. If not, it may lead to physical injury or property damage.

Do not lift the dental light by the handle. It may cause property damage.



- 2. Do not drop the product, let it crash into something, or apply strong impact.
- 3. Do not connect an input power supply other than with the rated power level.
- 4. Make sure to connect ground wires.

adjustment. (AL-D246G / AL-D249W)

- 5. Have the clinic equipped with double-pole switch at the power outlet or the switchboard.
- Adjust the levels of the unit and chair so that the light stops in the required position.Read the installation instructions for the unit and chair concerning the level
- 7. Once all work is completed, confirm that each part operates normally.



To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

Failure or electric leak may result in electric shock.

Do not directly expose human eyes to LED light. Exposure may hurt human eyes.

POST MOUNT

(AL-D241G / AL-D241W)



POST MOUNT [Necessary tools and supplied parts]

(AL-D241G / AL-D241W)

Necessary tools

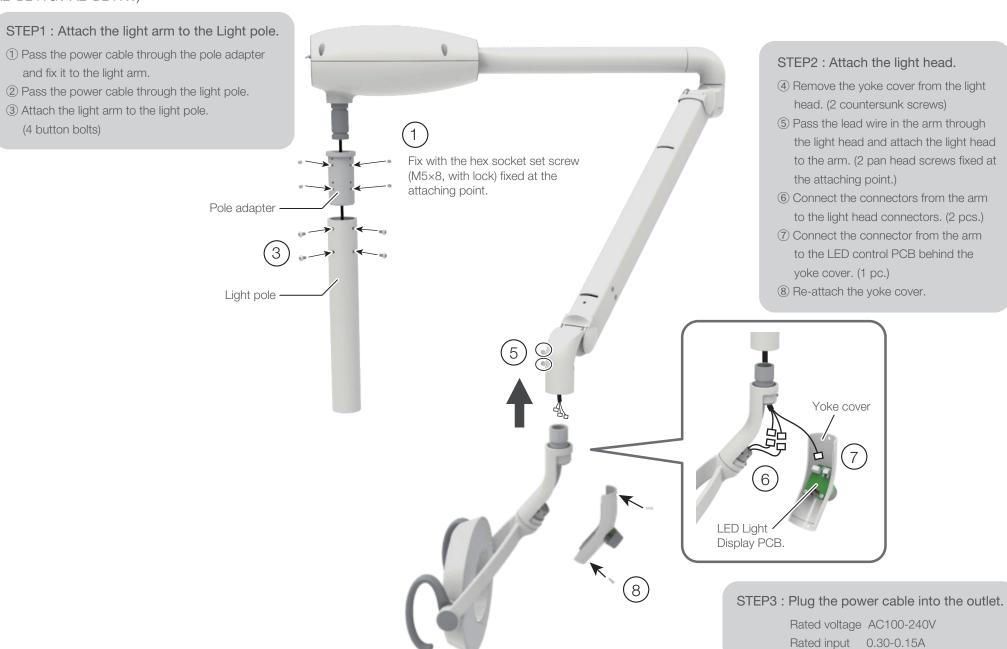
No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each

Supplied parts

No.	Part name		QTY.
1	Light head		1
2	Pole adapter		1
3	Button head bolt	900	4
4	Adjustment rod		1

POST MOUNT [Assembly procedure for installation]

(AL-D241G / AL-D241W)



CEILING MOUNT

(AL-D242G)



CEILING MOUNT [Necessary tools and supplied parts]

(AL-D242G)

Necessary tools

No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each
3	Hammer	1
4	Socket wrench (13mm, 17mm)	1 for each

Supplied parts

No.	Part name		QTY.
1	Ceiling flange set		1
2	Ceiling material: Wood Flat washer M10, plated Spring washer M10, plated Ccoach bolt M9 x 100, plated	Flat washer — Spring washer Ccoach bolt	4 for each
	Ceiling material: Steel Frame / Concrete Flat washer M8, plated Spring washer M8, plated Hex bolt M8 x 50, plated	Flat washer — Spring washer Hex bolt	4 for each

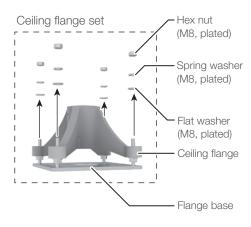
No.	Part name		QTY.
3	Roll pin		1
4	Extension post		1
5	Hex socket set screw M6 x 8, SUS (with red mec thread lock)		4
6	Flange cover		1
7	Flange cover ring		1
8	Hex socket set screw M6 x 8, plated (with red mec thread lock)		3
9	Light head	CO	1
10	Adjustment rod		1

CEILING MOUNT [Assembly procedure for installation]

(AL-D242G)

STEP1 : Attach the flange base to the ceiling.

1 Remove the nuts and washers from the included ceiling flange set shown in the figure and remove the ceiling flange.



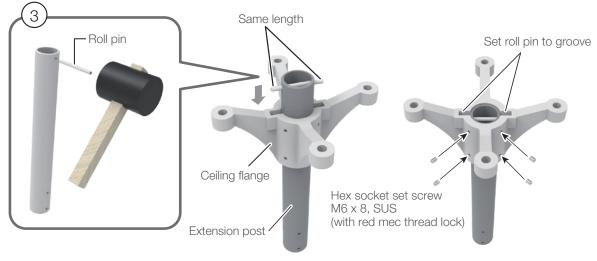
② Attach the flange base to the ceiling.

Refer to "Flange base template" [page12] for the flange base fixing hole dimensions.

Ceiling material	Wood	Steel Frame	Concrete
	Square timber (Hard wood more than 105mm) Flange base Flat washer (M10, plated) Spring washer (M10, plated) Ccoach bolt (M9 x 100, plated)	Flat washer M8, plated Spring washer M8, plated Hex bolt M8 x 50, plated	M8 Anchor nut (Embedded) Flat washer M8, plated Spring washer M8, plated Hex bolt M8 x 50, plated
Prepared hole diameter (mm)	φ5	φ10	M8 Embedded Anchor nut
Fixing bolt	Coach bolt M9 x 100, plated	Hex bolt M8 x 50, Plated	Hex bolt (M8 x 50, plated)

STEP2 : Set the extension post on the ceiling flange.

- 3 Attach the roll pin to the extension post with hammer.
- (4) Insert the extension post into the ceiling flange and set the roll pin to groove on the ceiling flange.
- ⑤ Fix it with hex socket set screws (4 pieces)

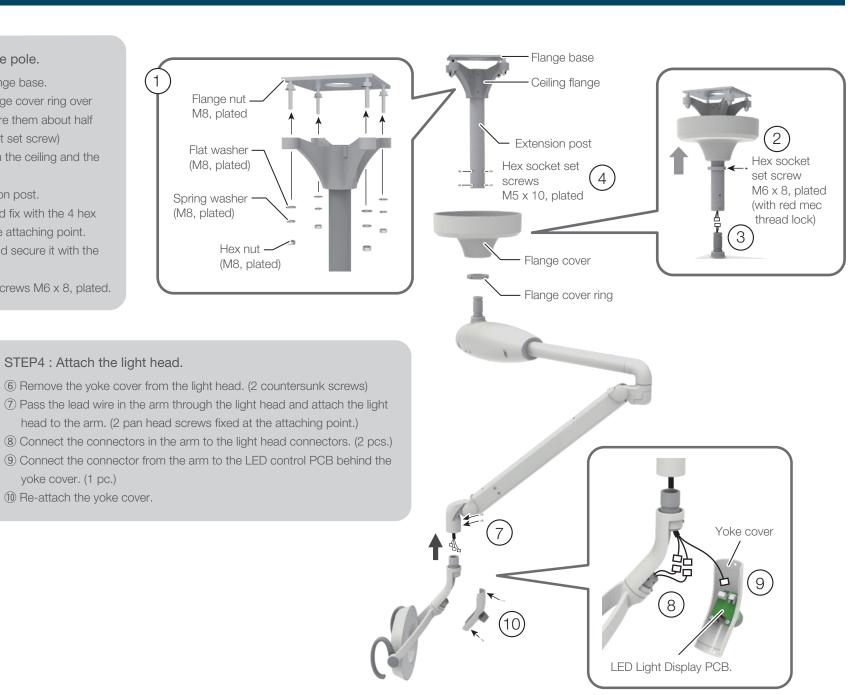


CEILING MOUNT [Assembly procedure for installation]

(AL-D242G)

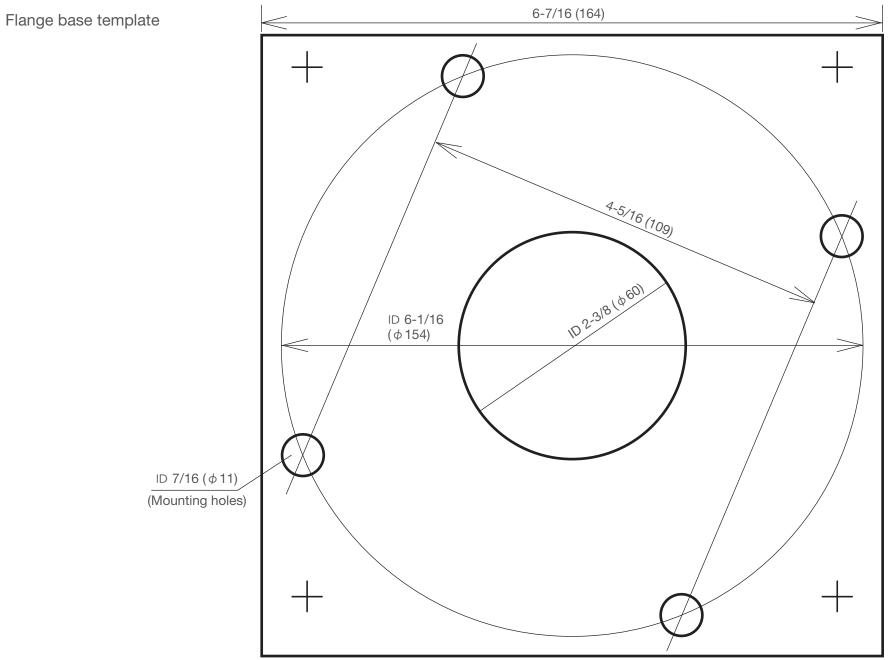
STEP3: Attach the arm to the pole.

- ① Fix the ceiling flange to the flange base.
- ② Slide the flange cover and flange cover ring over the extension post and secure them about half way up the pole. (1 hex socket set screw)
- ③ Connect the power cable from the ceiling and the connector from the arm.
- ④ Attach the arm to the extension post.
 Determine the rotation limit and fix with the 4 hex socket set screws fixed on the attaching point.
- (5) Reposition the flange cover and secure it with the flange cover ring.
 - Secure three hex socket set screws M6 x 8, plated.



CEILING MOUNT [Assembly procedure for installation]

(AL-D242G)



Unit: inch (mm)

TRACK MOUNT

(AL-D245G)



TRACK MOUNT [Necessary tools and supplied parts]

(AL-D245G)

Necessary tools

No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each
3	Hammer	1
4	Socket wrench (13mm, 17mm)	1 for each

Supplied parts

No.	Part name		QTY.
1	Pallet	111	1
2	Coach bolt M8 x 75, plated		8
3	Track		1
4	Light head		1
5	Barance arm		1
6	Hex bolt M8 x 25, plated		6

No.	Part name		QTY.
7	Flat washer M8, plated	0	6
8	Power supply box	7 P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1
9	Pan head screw 4P, M4 x 15, plated		4
10	Trolley		1
11	Trolley collar		1
12	Extension post		1
13	Rubber bumper		4
14	Bind screw M4 x 10	•	4
15	End-cap		1
16	Bottom cover		1
17	Adjustment rod		1

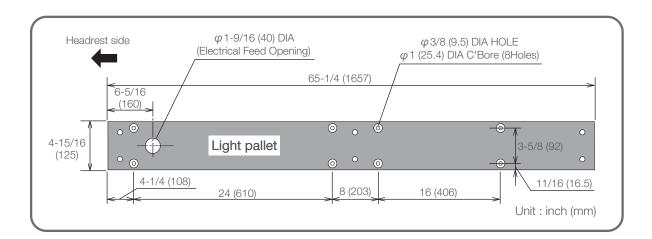
TRACK MOUNT [Assembly procedure for installation]

(AL-D245G)

STEP1: Drill a light pallet fixing holes in the ceiling.

Refer to the figure below for the positions of the power cable / light pallet fixing holes.

Refer to below figure for the location of electrical feed opening in pallet, provide 3 wire, circuit (fuse or breaker) through flexible conduit with enough slack to protrude at least 2" (50mm) below the pallet when installed. A readily accessible shut-off switch for this circuit isrecommended. Use wiring suitable for 194°F (90°C) service.



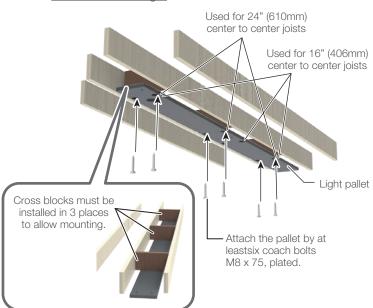
STEP2: Attach the light pallet to the ceiling.

Pull out the power cable from the ceiling and pass it through the light pallet.

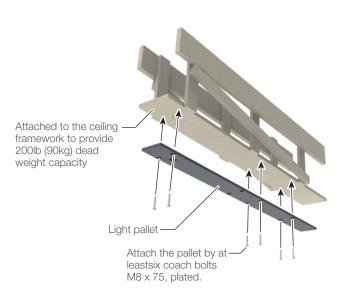
In conventional ceilings with joists perpendicular to the center line of the light

Used for 24" (610mm) center to center joists Headrest side Used for 16" (406mm) center to center joists Attach the pallet by at leastsix coach bolts M8 x 75, plated.

In conventional ceilings with joists parallel to the center line of the light



In suspended ceilings

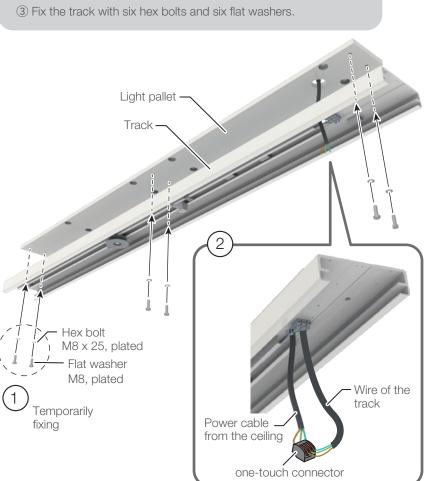


TRACK MOUNT [Assembly procedure for installation]

(AL-D245G)

STEP3: Attach the track to the light pallet.

- ① Place track against the pallet and slightly engage two hex bolts and two flat washers at the end opposite to the electrical opening.
- ② Pass the power cable from the ceiling through the electric opening of the track, and connect the power cable from the ceiling and the wire of the track with the one-touch connector. Return any excess wirings to the ceiling.

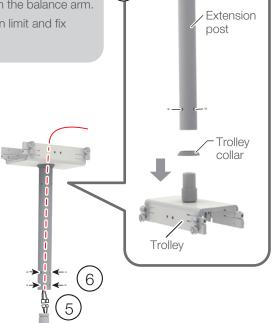


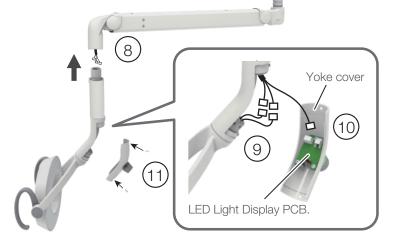
STEP4: Attach the balance arm to the trolley.

- 4 Attach the trolley collar and extension post to the trolley.(2 hex socket set screws fixed at the attaching point.)
- (5) Lead the electric wire coming from the track body through the extension post, then connect it with the connector coming from the lead wire in the balance arm.
- (6) Insert the extension post to balance arm. Determine the rotation limit and fix with the 4 set screws fixed on the attaching point.

STEP5: Attach the light head.

- Remove the yoke cover from the light head.(2 countersunk screws)
- (8) Pass the lead wire in the arm through the light head and attach the light head to the arm.(2 pan head screws fixed at the attaching point.)
- Onnect the connectors from the arm to the light head connectors. (2 pcs.)
- (1) Connect the connector from the arm to the LED control PCB behind the yoke cover. (1 pc.)
- 11) Re-attach the yoke cover.





TRACK MOUNT [Assembly procedure for installation]

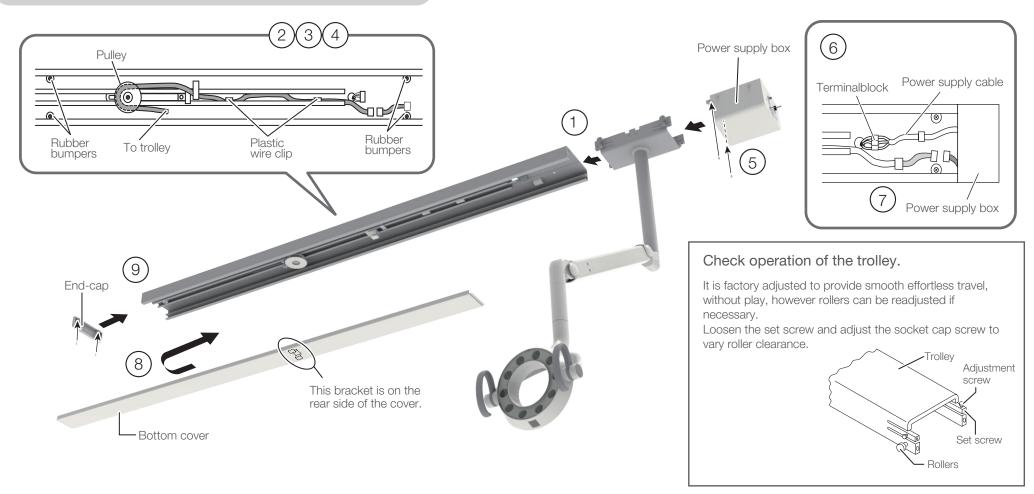
(AL-D245G)

STEP6: Attach the light to the track

- 1 Slide the I ight trolley on the track
- ② Carefully guide the wire from the trolley, around the spring-loaded pulley and back toward the end of track.
- ③ Secure the wire of ② to the track with the plastic wire clips (2 pcs.) and connect the connectors.
- (4) Install rubber bumpers (4 pieses) at the end of the track in the holes provided.(4 bind screws)

STEP7: Attach the power supply box and bottom cover

- (5) Attach the power supply box with the pan head screws (2 pieces).
- (6) Attach the power cable from the power supply box to the terminalblock.
- ① Connect the connector from the power supply box to the connector from the track.
- 8 Attach the bottom cover by sliding from the edge of the track.
- (9) Attach the end-cap with the pan head screws (2 pieces).



CABINET MOUNT

(AL-D247G)



CABINET MOUNT [Necessary tools and supplied parts]

(AL-D247G)

Necessary tools

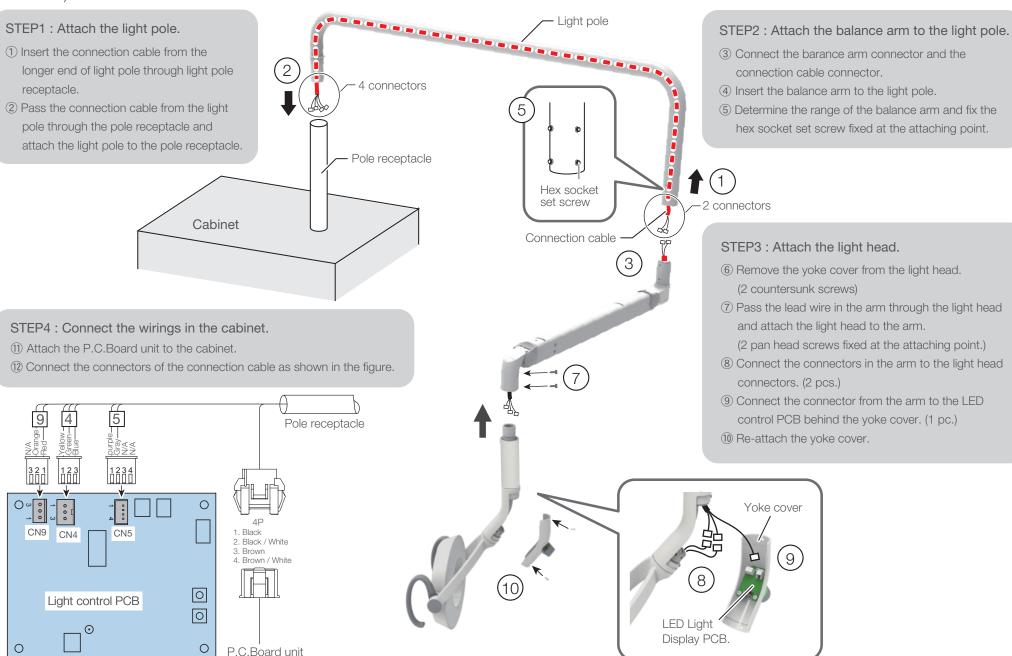
No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each

Supplied parts

No.	Part nam	ne	QTY.
1	Light pole		1
2	Connection cable		1
3	Light head	CO.	1
4	Balance arm		1
5	P.C.Board unit		1
6	Adjustment rod		1

CABINET MOUNT [Assembly procedure for installation]





WALL MOUNT

(AL-D248G)



WALL MOUNT [Necessary tools and supplied parts]

(AL-D248G)

Necessary tools

No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each

Supplied parts

No.	Part name		QTY.
1	Mount Wall Plate Assembly		1
2	Lag bolt M6		4
3	Washer	0	4
4	Light pole		1
5	Connection cable		1
6	Pole disc		1

No.	Part nan	ne	QTY.
7	Light head	CO	1
8	Barance arm		1
9	Plate cover		1
10	Top cover		1
11	Tapping screws	Commission of the Commission o	4
12	Tapping screws with washers	•	2
13	Adjustment rod		1

WALL MOUNT [Assembly procedure for installation]

(AL-D248G)

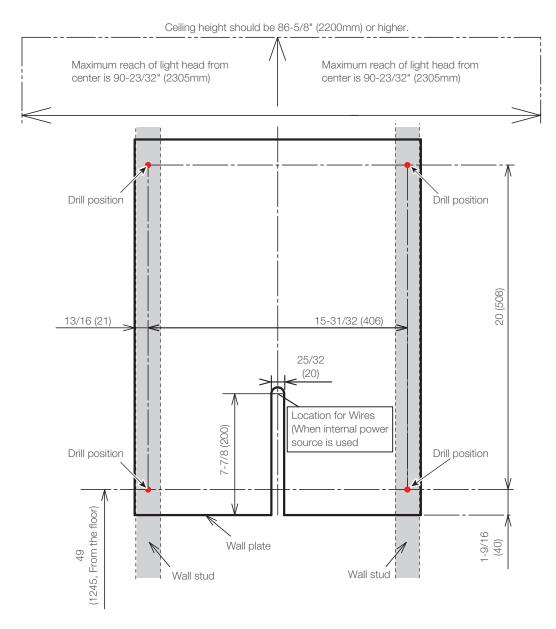
STEP1: Make a pilot hole in the wall

Drill four(4) pilot holes with 3/16" bit, depth of 2"

The wall plate must be securely mounted to the wall studs.

DO NOT mount to metal studs.

Unit: inch (mm)

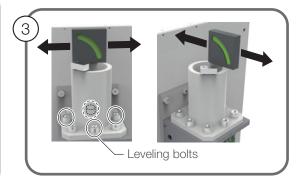


WALL MOUNT [Assembly procedure for installation]

(AL-D248G)

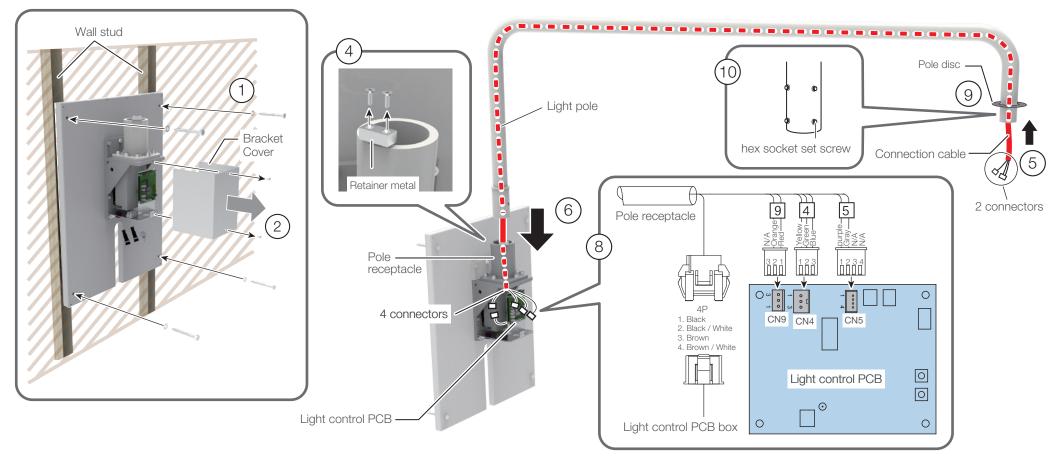
STEP2: Mount wall plate assembly.

- ① Mount wall plate assembly to the studs, with lag bolts (4 pieces) and washers (4 pieces)
- ② Remove bracket cover by removing screws (2 pieces) from it.
- (3) Place a level on top of Pole Receptacle and adjust the level with leveling bolts (4 pieces).
- ④ Remove the retainer metal from top of pole receptacle (2 screws).



STEP3: Light Pole Mounting.

- (5) Insert the connection cable from the shorter end of light pole through light pole receptacle.
- (6) Pass the connection cable through the pole receptacle and insert the long side of the pole to it.
- 7 Re-attach retainer metal which was removed in step 4.
- (8) Connect the connector of the connection cable as shown in the figure.
- 9 Slide pole disc onto the lightpole from the shorter end of the pole.
- 10 Loosen hex socket set screw (4 pieces) on the light pole.



WALL MOUNT [Assembly procedure for installation]

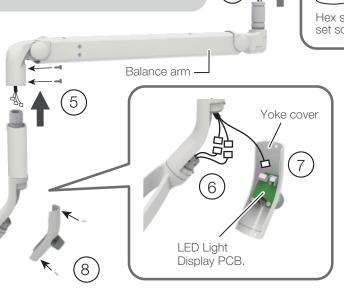
(AL-D248G)

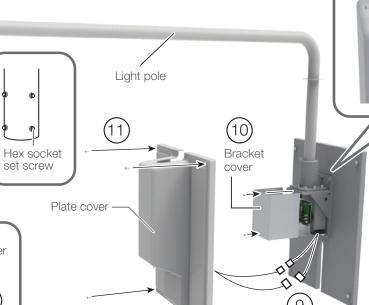
STEP4: Attach the balance arm to the light pole.

- 1) Join connectors from connection cable to those from balance arm.
- ② Insert balance arm stem into light pole.
- ③ Determine the range of the balance arm and fix the hex socket set screw loosened in the STEP3.

STEP5: Attach the light head.

- 4 Remove the yoke cover from the light head. (2 countersunk screws)
- ⑤ Pass the lead wire in the arm through the light head and attach the light head to the arm. (2 pan head screws fixed at the attaching point.)
- 6 Connect the connectors in the arm to the light head connectors. (2 pcs.)
- ⑦ Connect the connector from the arm to the LED control PCB behind the yoke cover. (1 pc.)
- ® Re-attach the yoke cover.





STEP6: Attach the plate cover to the wall plate assembly.

(9) Connect the connector on the back of the plate cover and the connector on the power PCB box (2 pcs.)

Top cover

- 10 Re-attach the bracket cover.
- 1) Set the plate cover over the wall plate and fix it with the tapping screws (4 pcs.).
- ② Attach the top cover and fix it with the two tapping screws with washers (2 pcs.).
- ③ Slide pole disc down to cover the opening around light pole on the top cover.

QUOLIS UNIT MOUNT

(AL-D246G-QU)



QUOLIS UNIT MOUNT [Necessary tools and supplied parts]

(AL-D246G-QU)

Necessary tools

No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm / 6mm / 8mm / 10mm	1 for each
3	Long nose pliers	1

Supplied parts

No.	Part name		QTY.
1	Light pole		1
2	Connection cable		1
3	P.C.Board unit		1
4	Pan head screw, 3P, M5 × 12, plated	•	2
5	Switch box	Manging o Selston	1
6	Pan head screw, 3P, M4 × 8, plated		2
7	Adjustment rod		1

QUOLIS UNIT MOUNT [Assembly procedure for installation]

(AL-D246G-QU)

STEP1: Attach the mounting bracket

(Only specification without doctor unit. For specifications with a doctor unit, go to STEP2.)

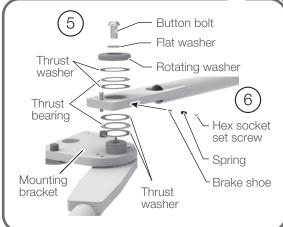
- ① Hook the countersunk screw on the mounting bracket to the chair.
- 2 Temporarily fasten the mounting bracket with cap bolts (4 pieces).
- ③ Attach the hex socket set screws (4 pieces) and horizontally adjust the mounting bracket.
- 4 Tighten the bolts in 2 and fix the mounting bracket.



Countersunk screw

STEP2 : Attach the light swing arm

- ⑤ Attach the light swing arm to the mounting bracket as shown in the figure.
- (6) Set the brake shoe, spring and hex socket set screw.
- The set the light swing arm to the desired angle and fix it with the locking pin.





QUOLIS UNIT MOUNT [Assembly procedure for installation]

Light pole

(AL-D246G-QU)

STEP3: Attach the dental light to the light pole.

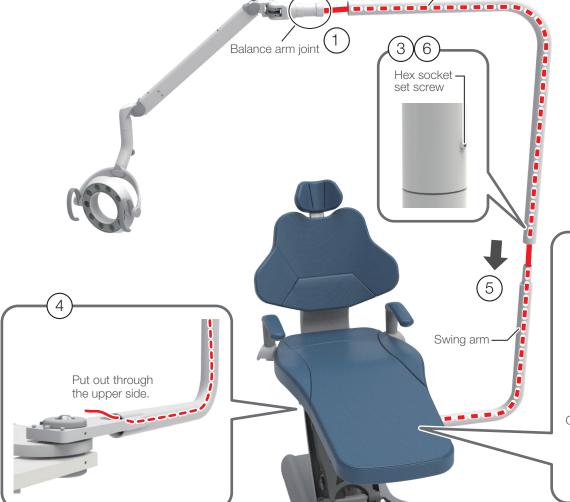
- 1) Pass the lead cable through the light pole.
- ② Insert the balance arm joint to the light pole, and fix it with the button bolt attached on the attaching point.

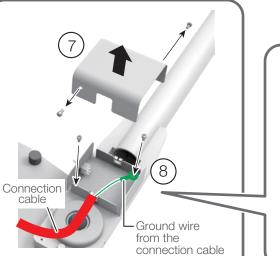
STEP4: Mount the light pole.

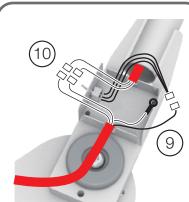
- 3 Loosen the hex socket set screw (1piece).
- ④ Feed the light lead cable through the swing arm and pull the end of the lead cable from the lower end of the swing arm.
- 5 Mount the light pole onto swing arm.
- 6 Adjust the brake with the hex socket set screw loosened in the 3.

STEP5: Attach the switch box.

- 7 Remove the switch box cover. (2 pan head screws)
- Attach the switch box onto the swing arm with two pen head screws M4 x 8.
 Fix together the ground wire of the connection cable.
- (9) Connect the connector from the connection cable to the connector from the switch box (1pc.).
- (1) Connect the connectors from the connection cable and the connectors from the lead wire in the light (2 pcs.).
- ① Place all cables in the switch box and attach the cover for switch box with reverse order of ⑦.





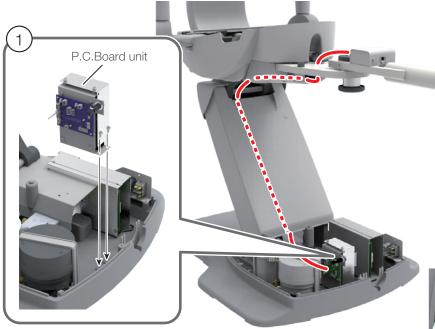


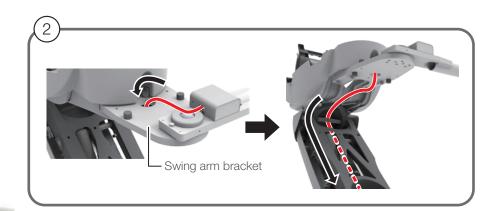
QUOLIS UNIT MOUNT [Assembly procedure for installation]

(AL-D246G-QU)

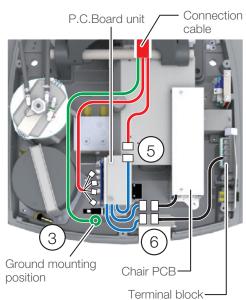
STEP6: Attach the P.C.Board unit.

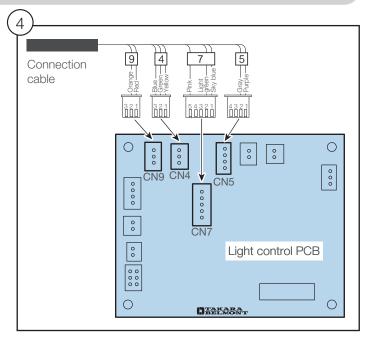
- 1) Attach the P.C.Board unit to the chair base (2 pan head screws M5).
- ② Pass the connection cable through the swing arm bracket hole and pass it through the lower part of the chair as shown in the figure





- 3 Attach the ground wire of the connection cable.
- ④ Connect the connectors from the connection cable to the light control PCB as shown in the figure.
- ⑤ Connect the connectors from the connection cable to the connector from the P.C.Board unit.
- (6) Connect the connectors from the chair PCB and chair terminal block to the connector from the P.C.Board unit.





EVOGUE UNIT MOUNT

(AL-D246G-EV)

[Cuspidor Mount]



EVOGUE UNIT MOUNT (Cuspidor Mount) [Necessary tools and supplied parts]

(AL-D246G-EV)

Necessary tools

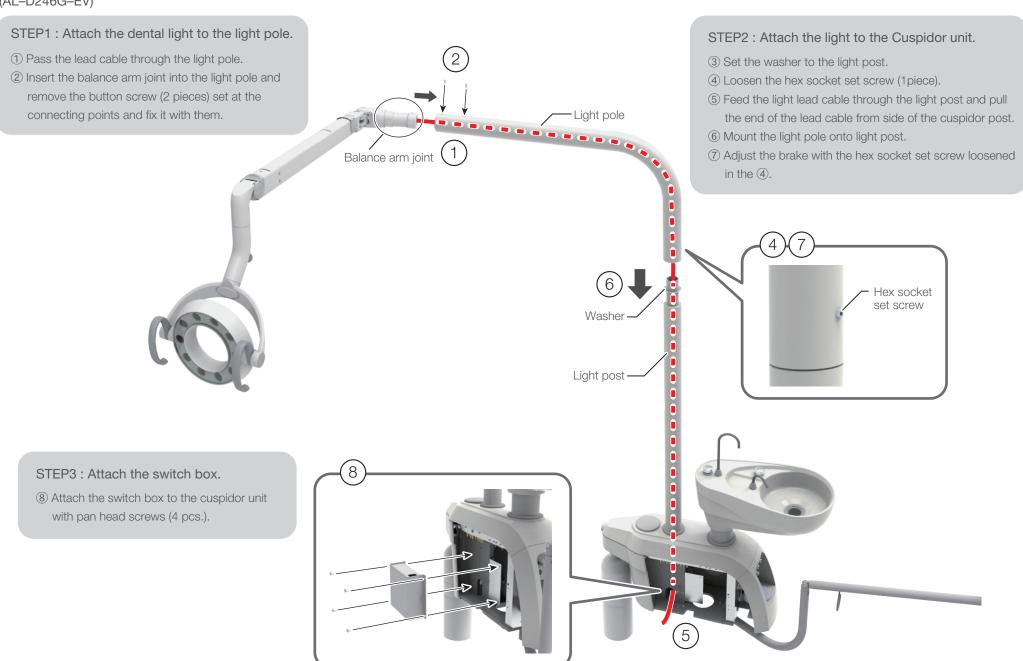
No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each
3	Long nose pliers	1

Supplied parts

No.	Part name	QTY.
1	Light pole	1
2	Connection cable	1
3	Power supply box	1
4	Switch box	1
5	Pan head screw, M4 × 8, plated	4
6	Adjustment rod	1

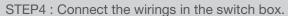
EVOGUE UNIT MOUNT (Cuspidor Mount) [Assembly procedure for installation]

(AL-D246G-EV)

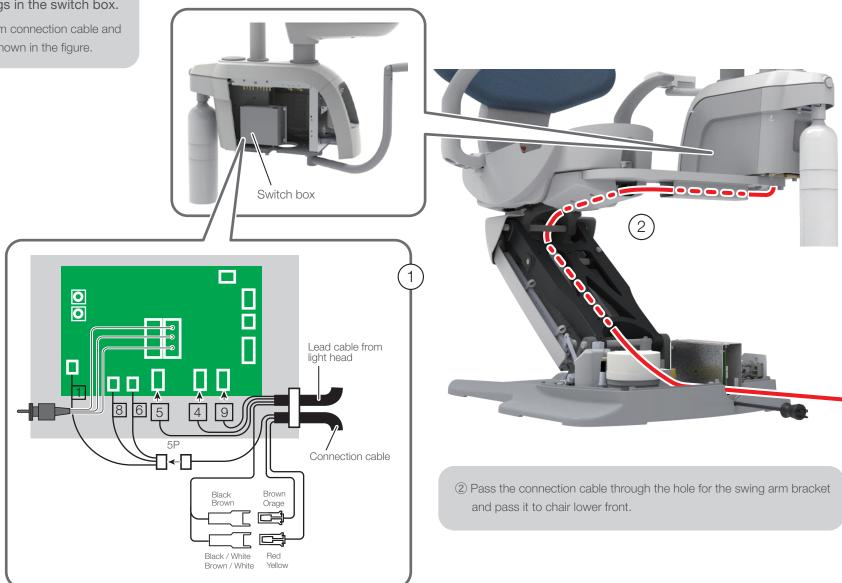


EVOGUE UNIT MOUNT (Cuspidor Mount) [Assembly procedure for installation]

(AL-D246G-EV)



① Connect the connectors from connection cable and lead wire from the light as shown in the figure.

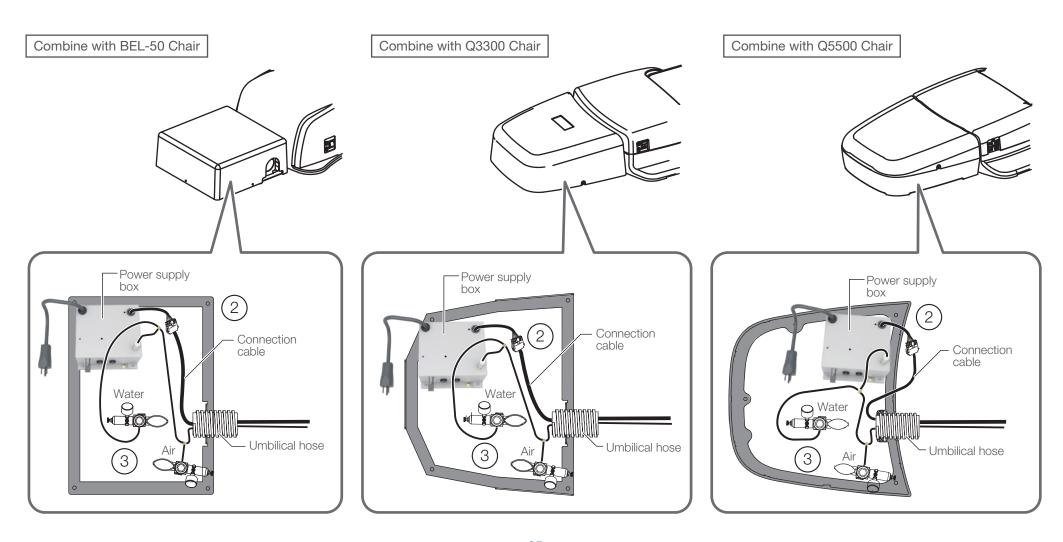


EVOGUE UNIT MOUNT (Cuspidor Mount) [Assembly procedure for installation]

(AL-D246G-EV)

STEP5: Attach the power supply box.

- ① Attach the power supply box to the junction unit.
- 2) Connect the connector from the power supply box to connection cable from cuspidor unit.
- ③ Pipe the air and water supply in the junction unit.



EVOGUE UNIT MOUNT

(AL-D246G-EV)

[Swing Arm Mount]



EVOGUE UNIT MOUNT (Swing Arm Mount) [Necessary tools and supplied parts]

(AL-D246G-EV)

Necessary tools

No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm / 6mm / 8mm / 10mm	1 for each
3	Long nose pliers	1

Supplied parts

No.	Part name		QTY.
1	Light pole		1
2	Connection cable		1
3	Power supply box		1
4	Switch box		1
5	Pan head screw, M4 × 8, plated	•	4
6	Adjustment rod		1

EVOGUE UNIT MOUNT (Swing Arm Mount) [Assembly procedure for installation]

(AL-D246G-EV)



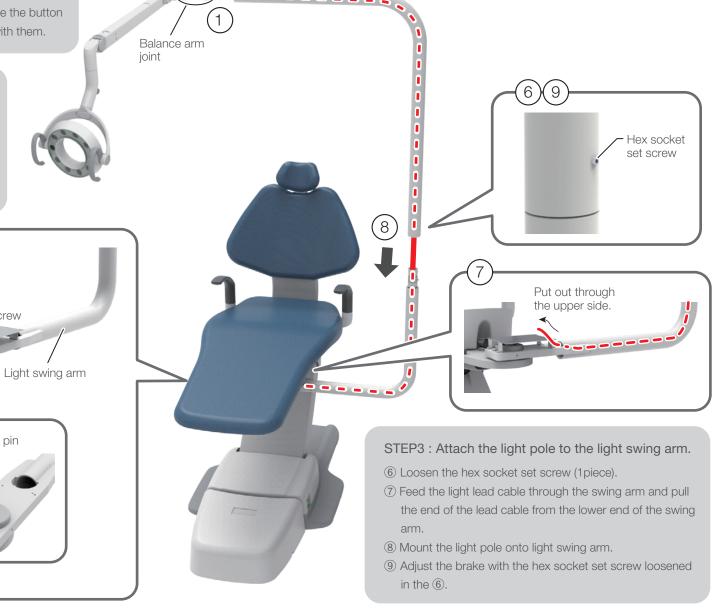
- 1) Pass the lead cable through the light pole.
- ② Insert the balance arm joint into the light pole and remove the button screw (2 pieces) set at the connecting points and fix it with them.

Flat head screw

Locking pin

STEP2: Attach the light swing arm to the chair.

- ③ Hook the countersunk screw on the mounting bracket to the chair.
- ④ Fix the mounting bracket with cap bolts (4 pieces).
- (5) Set the light swing arm to the desired angle and fix it with the locking pin.



Light pole

EVOGUE UNIT MOUNT (Swing Arm Mount) [Assembly procedure for installation]

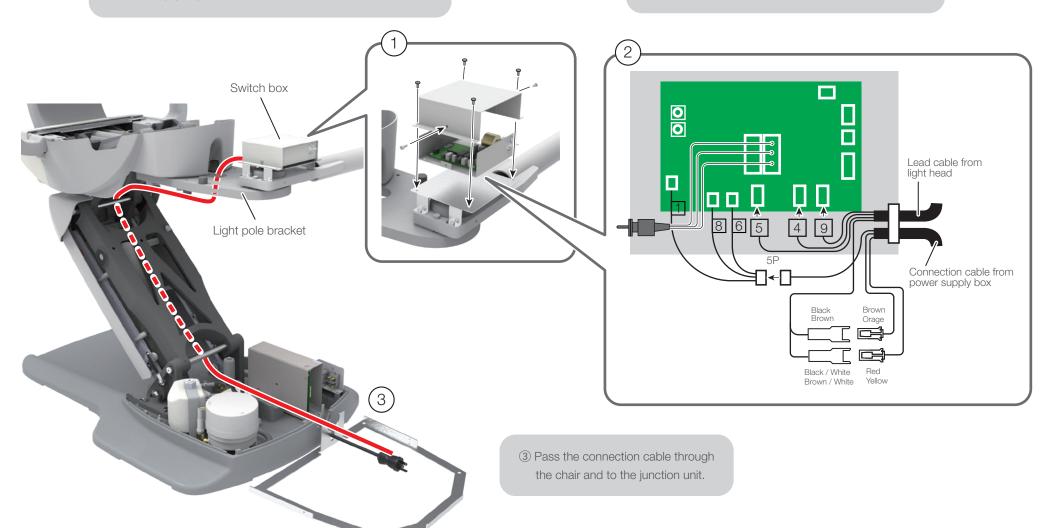
(AL-D246G-EV)



① Attach the switch box to the light pole bracket with truss screws (4 pcs.).

STEP5 : Connect the wirings in the switch box.

② Connect the connectors from connection cable and lead wire from the light as shown in the figure.

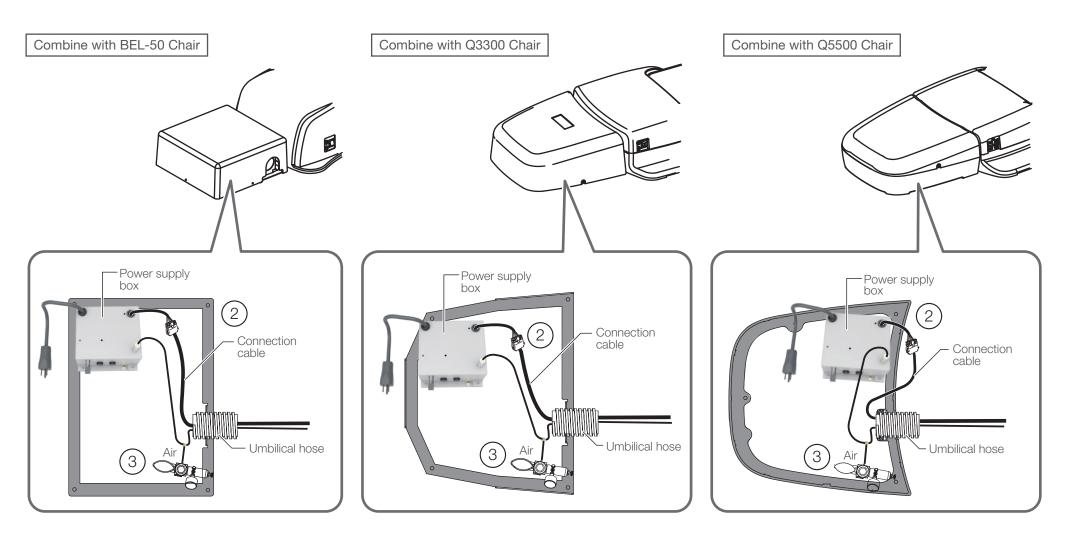


EVOGUE UNIT MOUNT (Swing Arm Mount) [Assembly procedure for installation]

(AL-D246G-EV)

STEP6: Attach the power supply box.

- ① Attach the power supply box to the junction unit.
- ② Connect the connector from the power supply box to connection cable from switch box.
- ③ Pipe the air supply in the junction unit.



X-CALIBUR UNIT MOUNT

(AL-D249W-XN)

[Cuspidor Mount]



X-CALIBUR UNIT MOUNT (Cuspidor Mount) [Necessary tools and supplied parts]

(AL-D249W-XN)

Necessary tools

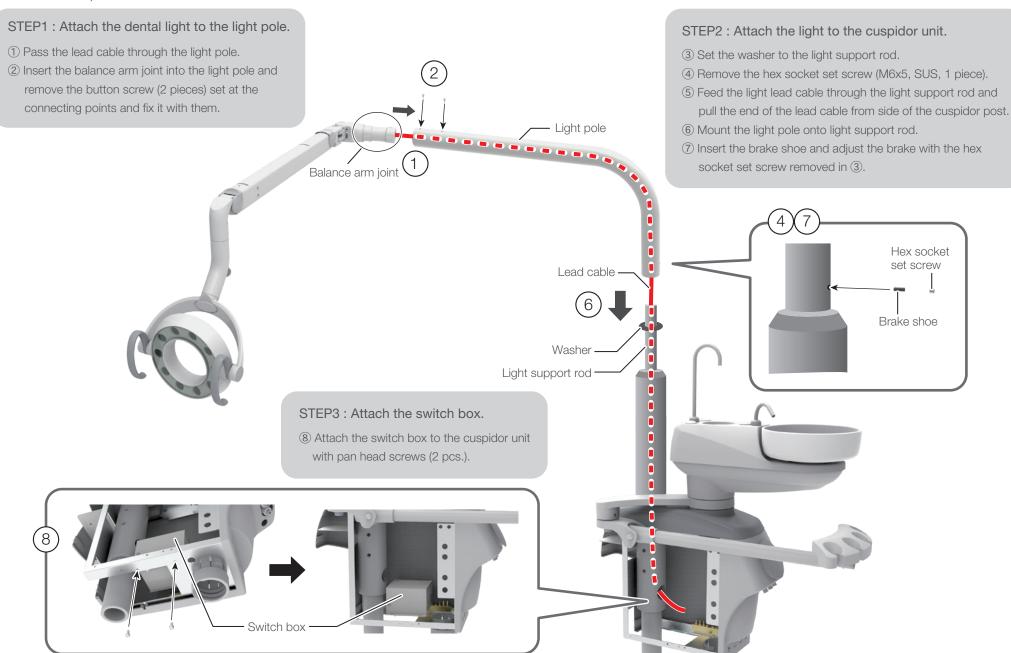
No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm	1 for each
3	Long nose pliers	1

Supplied parts

No.	Part name		QTY.
1	Light pole		1
2	Power supply box		1
3	Switch box		1
4	Pan head screw, M4 × 8, plated	•	2
5	Brake shoe	_	1
6	Adjustment rod		1

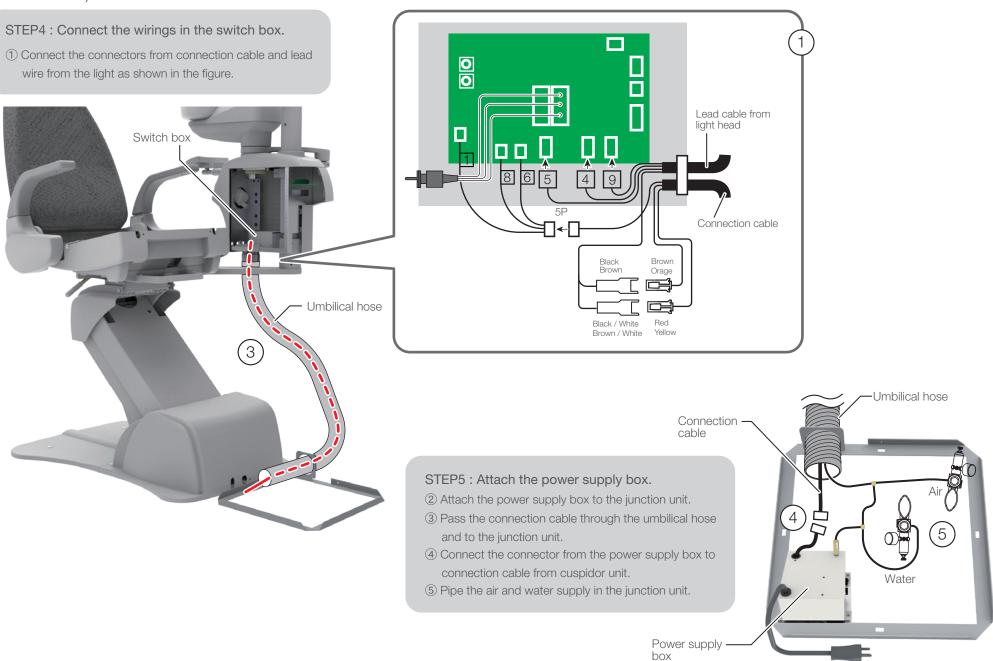
X-CALIBUR UNIT MOUNT (Cuspidor Mount) [Assembly procedure for installation]

(AL-D249W-XN)



X-CALIBUR UNIT MOUNT (Cuspidor Mount) [Assembly procedure for installation]

(AL-D249W-XN)



X-CALIBUR UNIT MOUNT

(AL-D249W-X)

[Swing Arm Mount]



X-CALIBUR UNIT MOUNT (Swing Arm Mount) [Necessary tools and supplied parts]

(AL-D249W-X)

Necessary tools

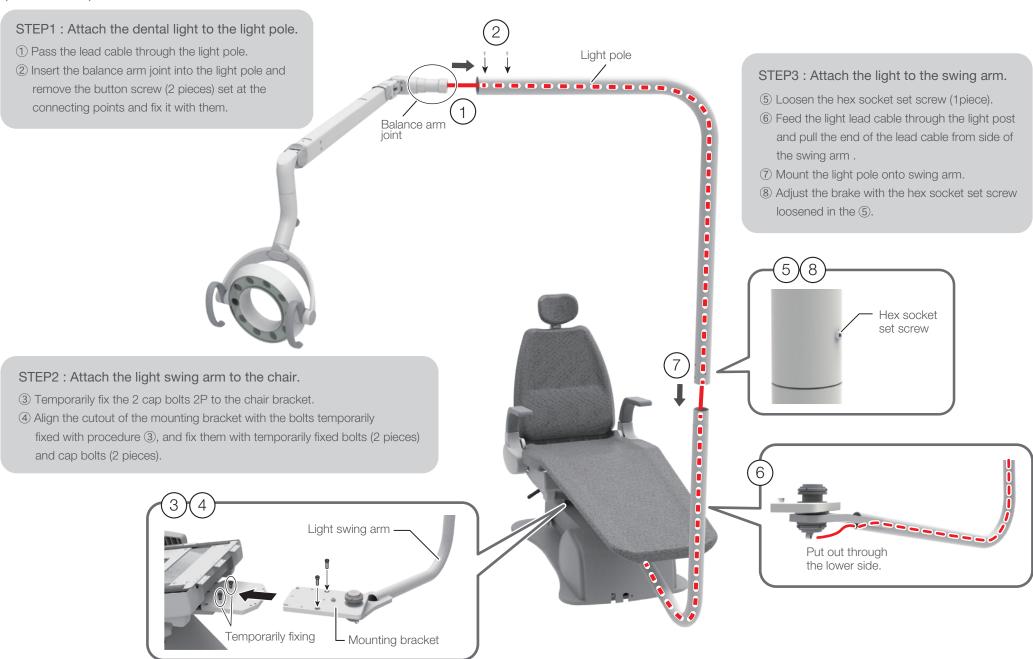
No.	Tool name	QTY.
1	Phillips screwdriver No. 1, 2	1 for each
2	Hex key wrench; width across flats: 2 mm / 2.5mm / 4mm / 6mm / 8mm	1 for each
3	Long nose pliers	1

Supplied parts

No.	Part name		QTY.
1	Light pole		1
2	Power supply box		1
3	Switch box		1
4	Pan head screw, M4 × 8, plated	•	4
5	Adjustment rod		1

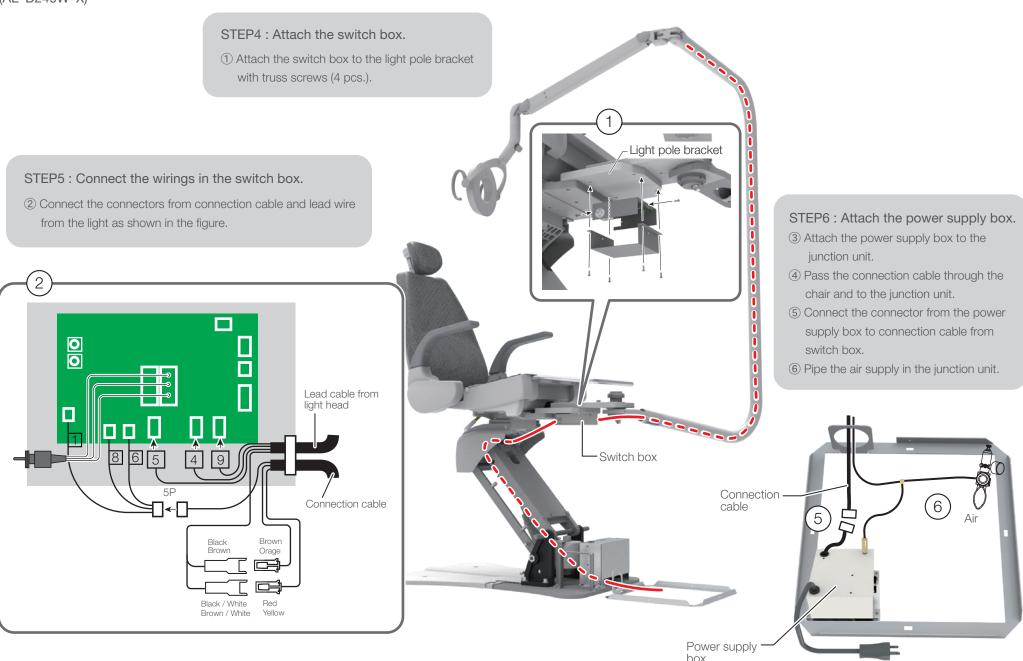
X-CALIBUR UNIT MOUNT (Swing Arm Mount) [Assembly procedure for installation]

(AL-D249W-X)

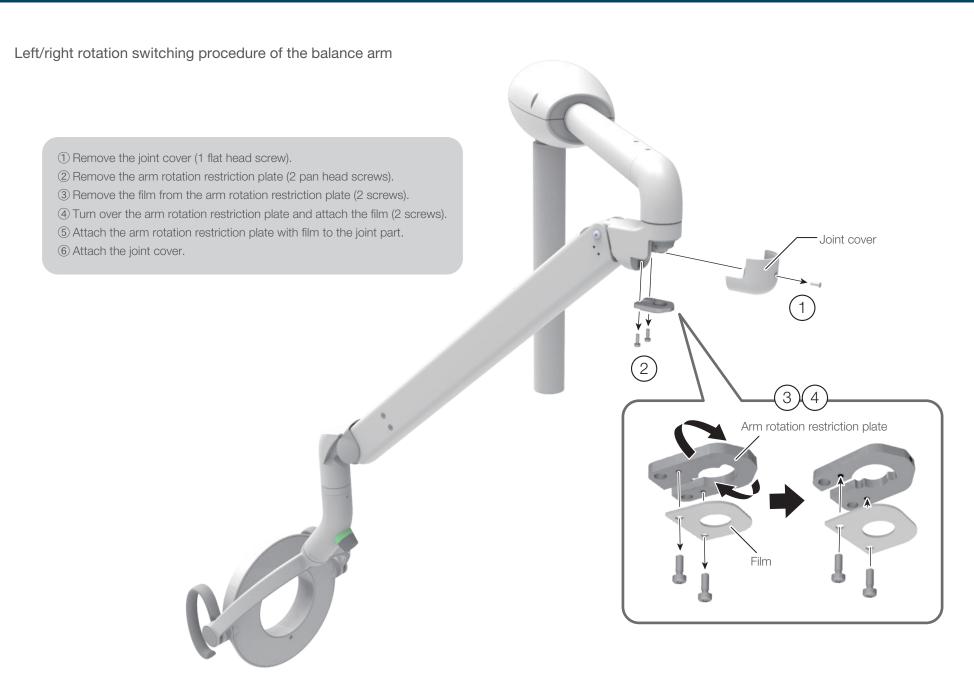


X-CALIBUR UNIT MOUNT (Swing Arm Mount) [Assembly procedure for installation]

(AL-D249W-X)



Adjusting the parts



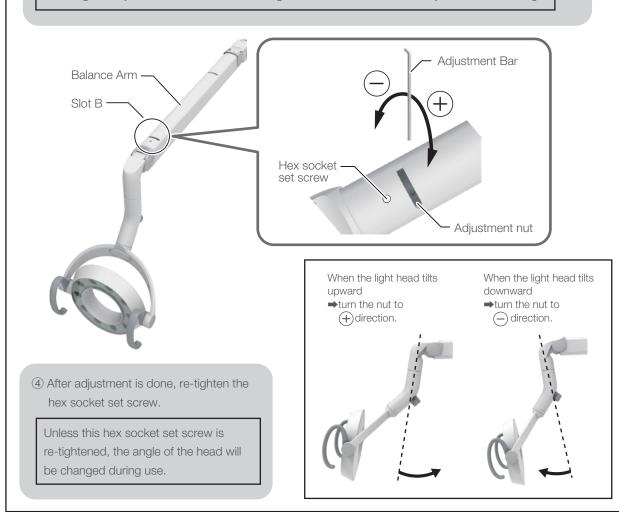
Adjusting the parts

Adjustment of the tension of the balance arm 1) Position the angle of the balance arm so the tension adjustment nut becomes visible just under slot A. 2 Turn the nut and adjust the tension with the adjustment bar supplied with the light. Slot A Balance Arm Adjustment Adjustment nut When the light head tends to go up →turn the nut to + direction. When the light head tends to go down →turn the nut to direction.

Adjustment of the angle of the light head

- ① Use a 2mm hex key wrench to loosen hex socket set screw in front of Hole B.
- ② Position the angle of the balance arm so the tension adjustment nut becomes visible just under slot B.
- ③ Turn the nut and adjust the tension with the adjustment bar supplied with the light.

Rotating the adjustment nut without loosening the hex socket set screw may lead to the damage.



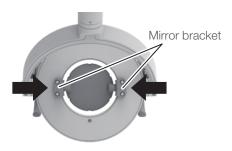
Attaching the patient mirror

Supplied parts

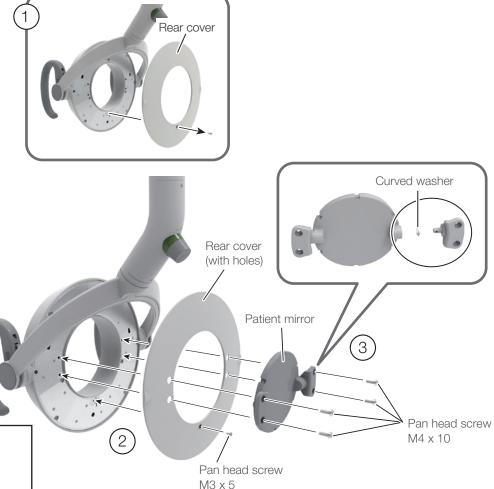
No.	Part name		QTY.
1	Back cover		1
2	Patient mirror		1
3	Pan head screw M4 x 10	-	4

- ① Remove the pan head screw (1 pc.) and remove the rear cover of the light head.
- ② Attach the rear cover (with holes) supplied together in the patient mirror with the reverse order of ① using the pan head screw (1 piece) removed in the ①.
- ③ Attach the patient mirror.
 When viewed from behind, ensure that a curved washer comes at the right side of the mirror. Then fix it with the pan head screws M4×10, white (4pieces).

*If the rotation of the mirror is too loose, tighten the screws further while pressing the both mirror brackets.

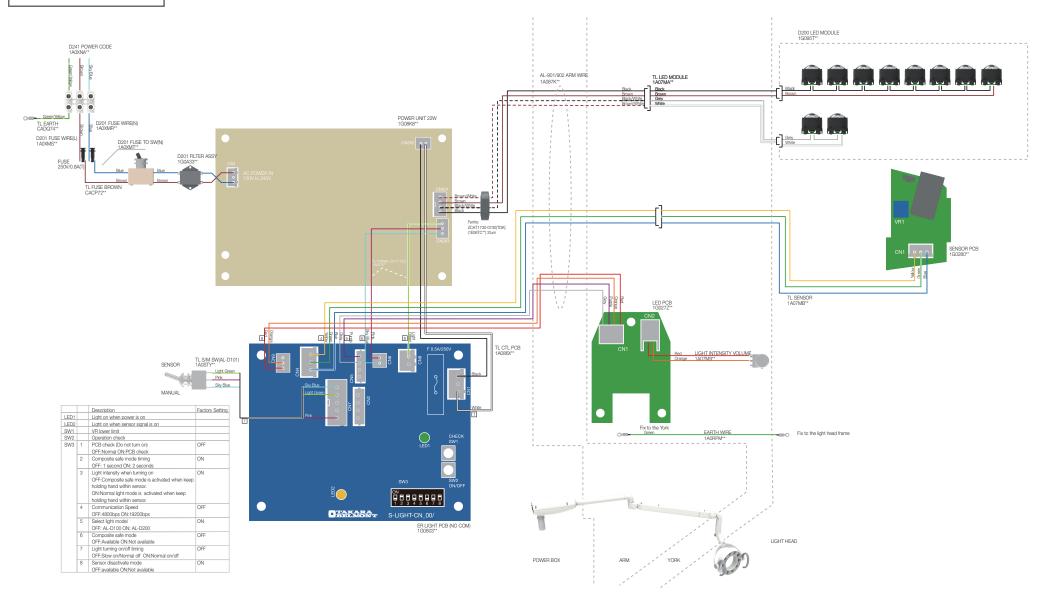


*After the attachment is completed, make sure that the mirror can be tilted and held at around 5° as shown in the figure.

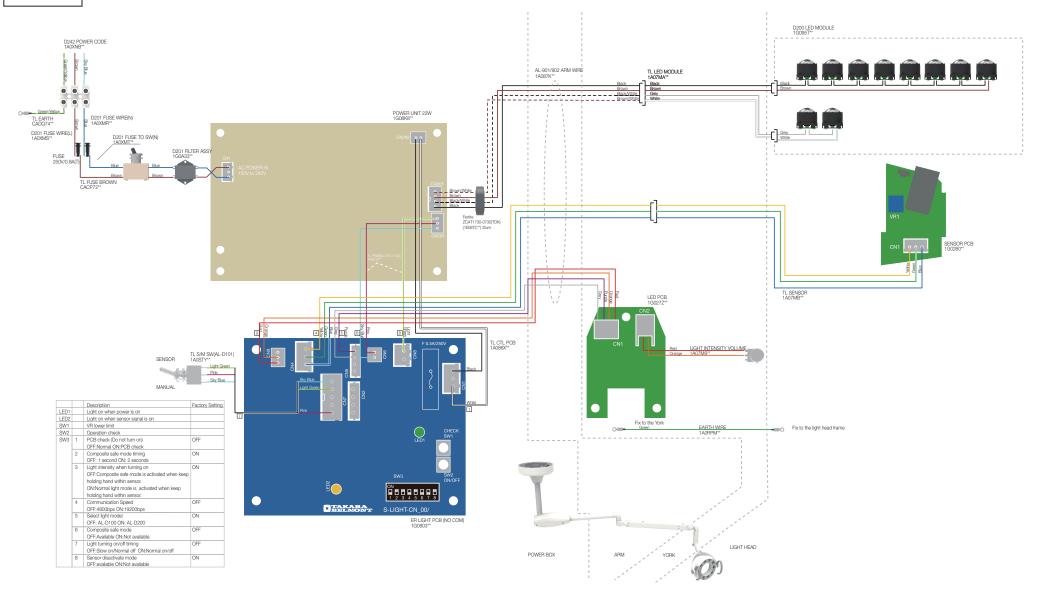


④ Confirm the raising/lowering balance of the balance arm. Make sure the light head stops at each position in the range of raising/lowering operation of the balance arm. If the light head doesn't stop, refer to the "Adjustment of the tension of the balance arm"[page 50] and adjust its balance.

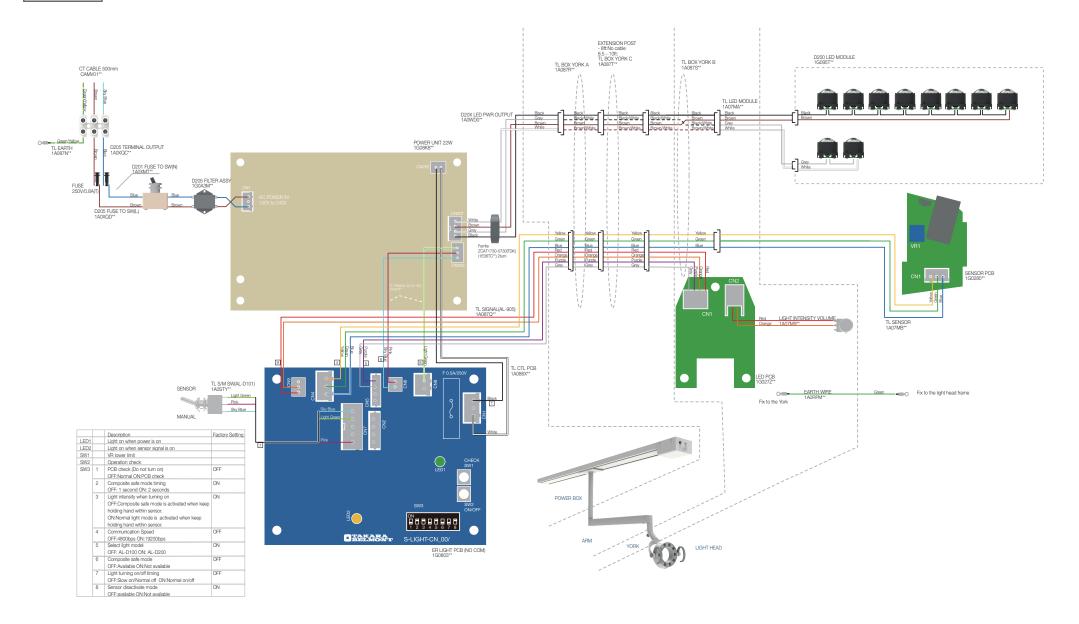
AL-D241G / AL-D241W



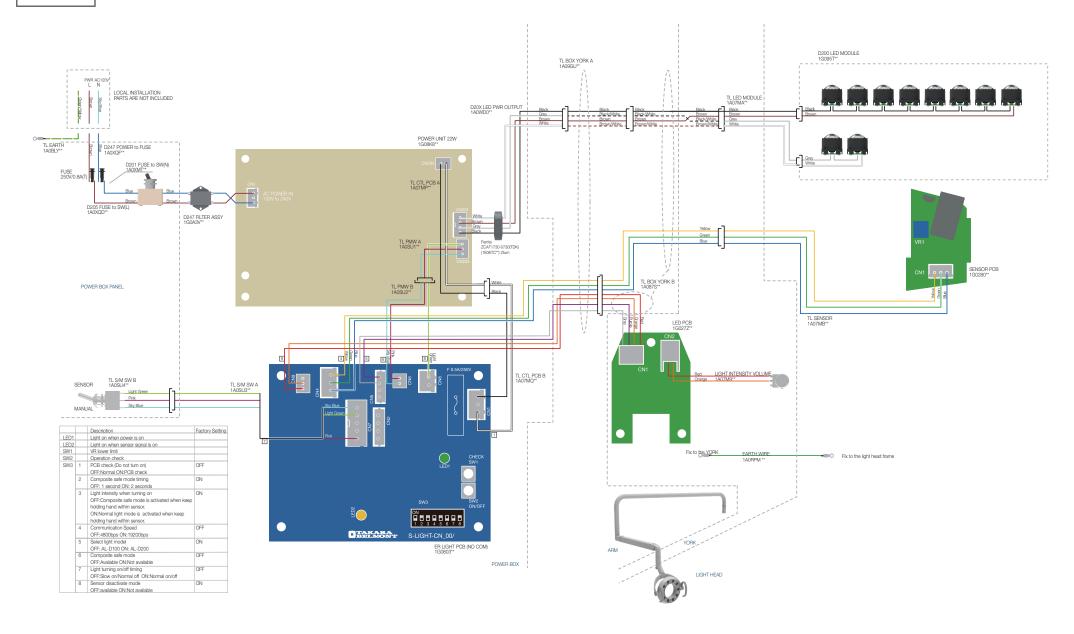
AL-D242G



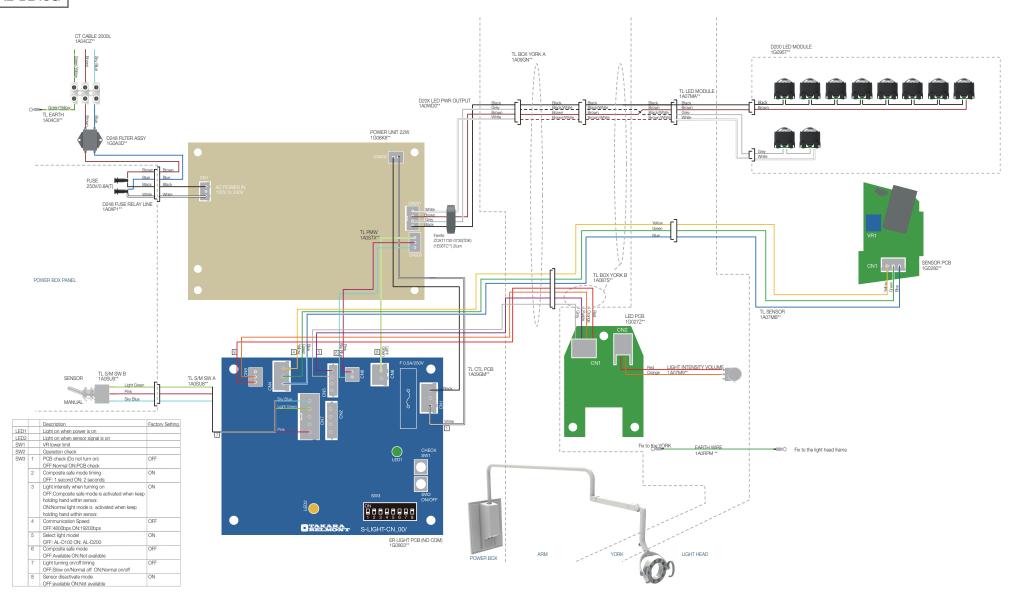
AL-D245G



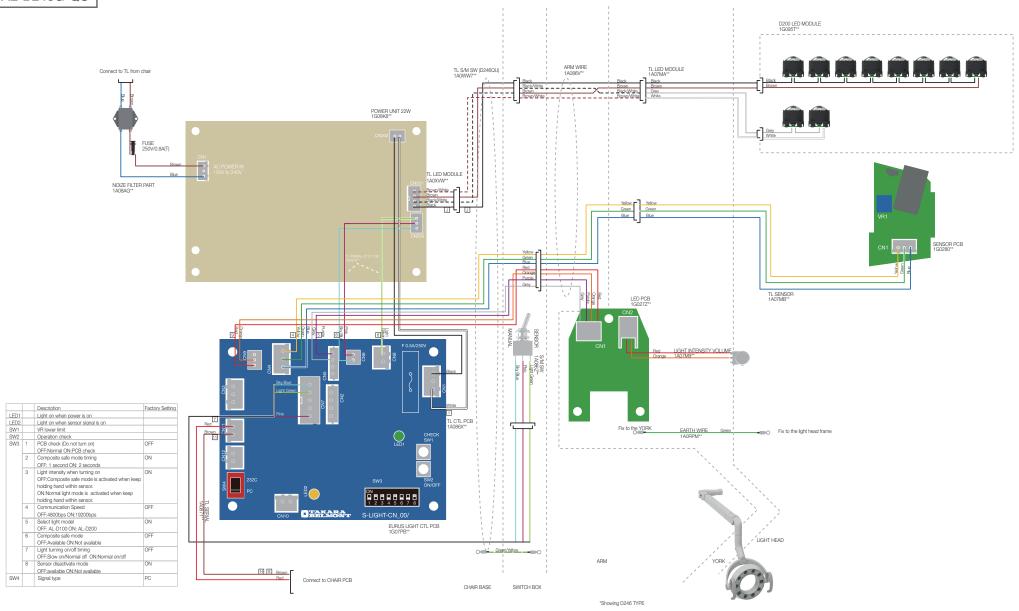
AL-D247G



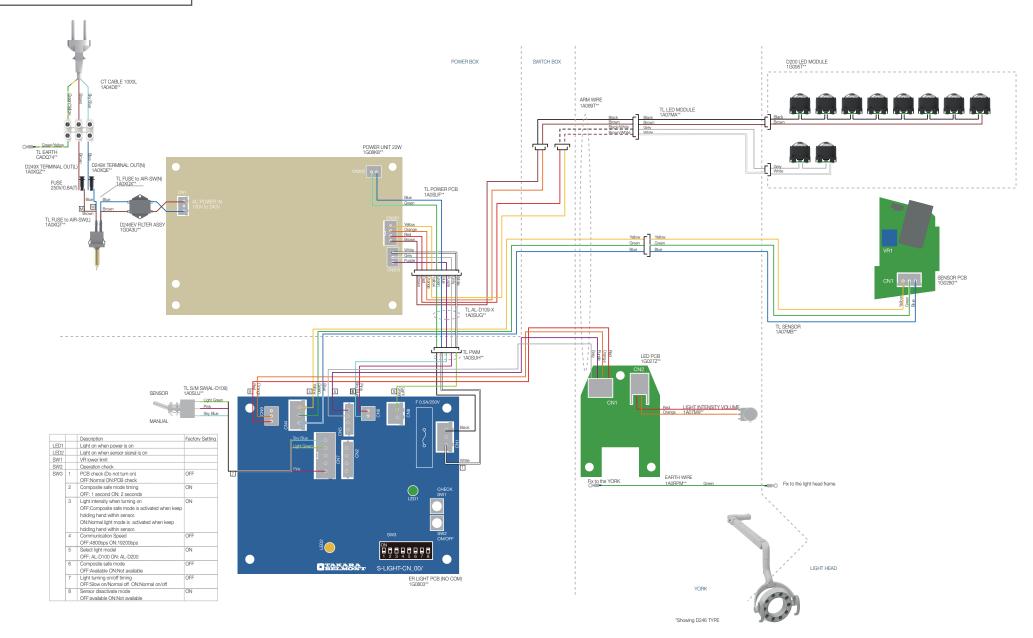
AL-D248G



AL-D246G-QU



AL-D246G-EV / AL-D249W-X*



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