

Technical Manual - EN
PowerLED

MAQUET
GETINGE GROUP



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Subject to technical changes.

The illustrations and technical specifications provided in this manual may, on account of future product developments, differ slightly from the actual product supplied.

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1 Symbols used in this manual

Symbols	Meaning
	<p>Absolute requirement May affect patient or user safety</p>
	<p>CE mark The device bears the CE mark and complies with the requirements of European Directive 93/42/EEC relating to medical devices.</p>
	<p>Medical equipment Classified with respect to electric shock, fire and mechanical hazards only, in accordance with ANSI/AAMI ES60601-1:2005 + AMD (2012), UL 60601-1, CAN/CSA-C22.2 No. 601-M90, CSA CAN/CSA-C22.2 NO. 60601-1 :2014, IEC 60601-2-41 :2009</p>

2 Symbols used on the product

Symbols	Meaning
	Caution Follow the instructions for use
	Caution Follow the instructions for use
	Manufacturer
	Alternating current
	Direct current
	Product technical description and serial numbers
	Comply with the applicable handling precautions for products that are sensitive to electrostatic discharges
	Medical equipment Classified with respect to electric shock, fire and mechanical hazards only, in accordance with ANSI/AAMI ES60601-1:2005 + AMD (2012), UL 60601-1, CAN/CSA-C22.2 No. 601-M90, CSA CAN/CSA-C22.2 NO. 60601-1 :2014, IEC 60601-2-41 :2009
	CE mark The device bears the CE mark and complies with the requirements of European Directive 93/42/EEC relating to medical devices.
	Do not dispose of this device as unsorted municipal waste. Take it to a collection facility for value enhancement, recycling or re-use.

3 Warnings



WARNING!

Take care when handling the circuit boards: these boards are supplied in an electrostatic envelope and must be handled with great care. Certain components on the boards may be destroyed by static electricity (ESD, electrostatic discharge). An anti-static wrist strap (OPM 060) must be worn to eliminate this risk.



WARNING!

To avoid any risk of an electric shock, class I devices must be connected to a power supply system which is earthed.

4 Quality standards compliance

CE MARKING

Compliance with the requirements of European Directive 93/42/EEC dated 14 June 1993 relating to medical devices was assessed as described in Annex VII of the Directive. PowerLED® lights belong to Class I as described in Annex IX of Directive 93/42/EEC.

CE marking affixed in 2007.

5 General specifications

(in accordance with standards IEC 60601-2-41 and IEC 60601-1)

Standard specifications (factory defaults)

Specifications	Unit	PWD 700	PWD 500	PWD 300
Main light				
Nominal illumination (Ec @ 1m) Illumination with Boost mode*	lx	> 110,000 160,000	> 110,000 160,000	> 110,000 160,000
Diameter d10	cm	26 (10.2)	24 (9.5)	17 (6.7)
Diameter d50	cm	14 (5.5)	13 (5.1)	10 (3.9)
Diameter d50/d10	N/A	> 0.5	> 0.5	> 0.5
Illumination depth at 20% Ec	cm	120 (47.2)	120 (47.2)	100 (39.4)
Illumination depth at 60% Ec	cm	50 (19.7)	70 (27.6)	60 (23.6)
Standard colour temperature**	K	K3: 3800 K4: 4200	K3: 3800 K4: 4200	K3: 3800 K4: 4200
Colour rendering index (Ra)	N/A	95	95	95
Special colour rendering index (R9)	N/A	75	75	75
Radiant energy	mW/m ² /lx	3.6	3.6	3.6
Irradiance (Ee) ***	W/m ²	< 500	< 500	< 500
Electrical classification	N/A	Class I protection		
Shadow dilution				
With one mask	%	77	56	28
With two masks	%	56	44	44
At base of tube	%	84	100	100
With one mask, at base of tube	%	61	56	28
With two masks, at base of tube	%	45	44	44
Ambient light				
Illumination	lx	< 500	< 500	< 500

* The Ec illumination value in Boost mode is provided with a tolerance up to -10%; other optical values are given with a tolerance of ±10%.

** ± 15 %

*** In standard mode

6 Cleaning / Disinfection / Sterilisation



WARNING!

As cleaning and sterilisation procedures vary considerably in individual healthcare facilities and depending on local regulations, it is impossible for Maquet to specify a single procedure that would correspond to all requirements.

Users must contact their hospital's sanitary specialists. The recommended products and procedures must be applied. Should there be any doubt concerning the compatibility of active agents to be used, contact the local Maquet customer service department.

6.1 Cleaning and disinfecting the system

RECOMMENDATION

Check that the power is switched off and the light has cooled down before starting cleaning.

General instructions concerning cleaning, disinfection and safety

In standard use, the level of treatment required for cleaning and disinfection of the PowerLED® is low-level disinfection. The device is classified as non-critical with a low infectious risk. However, depending on the infectious risk, intermediate or high level disinfection may be envisaged.

Cleaning the device

- Remove the sterilisable handles.
- Use a slightly alkaline universal cleaner (soap solution) containing active substances such as detergents and phosphates. Do not use abrasive products which could damage the surfaces.
- Wipe the equipment with a cloth moistened with a surface cleaner. Follow the manufacturer's dilution, application time and temperature recommendations.
- Rinse the unit with a cloth and clean water. Wipe with a dry cloth.

Disinfecting the device

- Wipe evenly with a cloth soaked in disinfectant. Follow the manufacturer's recommendations.



WARNING!

Never spray a solution directly onto the unit.

Disinfectant to be used

- Disinfectants are not sterilising agents. They result in a qualitative and quantitative reduction in the microorganisms present.
- Use only surface disinfectants containing combinations of the following active substances:
 - quaternary ammonium (bacteriostatic for Gram - and bactericidal for Gram +, variable activity on enveloped viruses, no action on non-enveloped viruses, fungistatic, no sporicidal action)
 - guanidine compounds or
 - alcohols

List of active substances that can be used for disinfection of the device

Class	Active substances
Low level of disinfection	
Quaternary ammonium	Didecyl dimethyl ammonium chloride, Alkyl dimethyl benzyl ammonium chloride, Dioctyl dimethyl ammonium chloride
Biguanides	Polyhexamethylene biguanide hydrochloride
Intermediate level of disinfection	
Alcohols	Propan-2-ol
High level of disinfection	
Acids	Sulfamic acid (5%), malic acid (10%), ethylenediaminetetraacetic acid (2.5%)

Examples of commercially available products tested

- ANIOS product: Surfa'Safe
- Pharmacal Research product: Virkon, 1% dilution
- ECOLAB product: Incidin Plus, 2% dilution
- Other products: 20% or 45% isopropyl alcohol

Examples of prohibited products

WARNING!

Disinfectants containing glutaraldehyde, phenol or iodine must not be used. Fumigation methods are unsuitable for disinfecting the unit and must not be used.

6.2 Cleaning and sterilising the handles

Before cleaning

To prevent any soiling from drying out, soak the handles in a detergent-disinfectant bath containing no aldehydes, immediately after use. **CAUTION! Important: follow the instructions for use set out by the manufacturer of the product.**

Manual cleaning

- Immerse the handles in a detergent solution.¹
- Soak for 15 minutes to allow the solution to act, then clean by hand with a soft brush and a lint-free cloth.
- During cleaning, check regularly that the handles are fully clean and that no soiling remains on the inside or outside.
- If any soiling remains, repeat cleaning or use an ultrasonic cleaning process.
- Rinsing: rinse thoroughly in clean water to completely eliminate the detergent solution.
- Drying: wipe with a clean lint-free cloth.

Cleaning in a washer-steriliser

Handles may be cleaned by machine (e.g. Getinge) and rinsed at a maximum temperature of 93°C. Typical recommended cycles:

Step	Temperature	Time
Pre-wash	18-35°C	60 sec
Wash	46-50°C	5 min
Neutralisation	41-43°C	30 sec
Wash 2	24-28°C	30 sec
Rinse	92-93°C	10 min
Dry	N/A	20 min

¹The use of non-enzymatic detergents is recommended. Enzymatic detergents may damage the handles. Never soak the handles in these detergents for prolonged periods. Rinse thoroughly.

Sterilisation

After cleaning, the handles must be steam sterilised as set out below:

Countries	Sterilisation cycle	Temperature [°C]	Time [min]	Drying [min]
USA & Canada	Prevacuum ²	132 - 135	10	16
France	ATNC (Prion) (Prevacuum)	134	18	N/A
Other countries	Prevacuum	Comply with national regulations		

- Check that each handle is clean before continuing the process.
- Wrap the handles with sterilisation wrapper material (double wrapper or equivalent). Handles may also be placed in paper or plastic sterilisation bags³, for easier identification and reuse.
- Place the handles on steriliser trays with the opening downwards⁴.
- Package with biological and/or chemical indicators for monitoring the sterilisation process, in accordance with applicable regulations.
- Run the sterilisation cycle according to the steriliser manufacturer's instructions.



WARNING!

To ensure correct sterilisation, do not allow any soiling to penetrate inside the handle.

Dispose of the handles in the same way as other hazardous products in a hospital environment.

RECOMMENDATION

With the above sterilisation parameters, PSX sterilisable handles are guaranteed for no more than fifty (50) sterilisation cycles, and HLX sterilisable handles are guaranteed for up to 350 uses.

² This handle is made of a porous material.

³ Possible sterilisation bag suppliers:

Medical Action Industries

SBW Medical

Baxter International

⁴For air removal and faster drying.

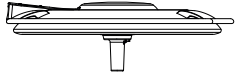
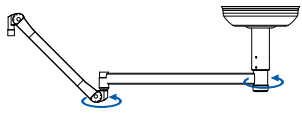
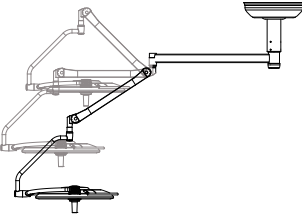
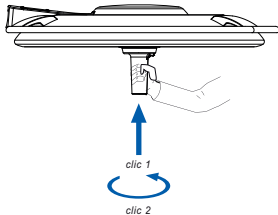

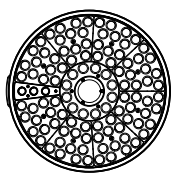

7 Maintenance

7.1 Preventive maintenance

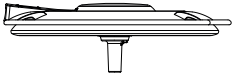
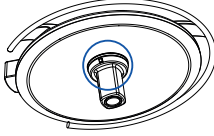

To preserve your surgical light's original performance and reliability levels, annual maintenance and inspections should be performed as follows:

- during the guarantee period, by a Maquet technician or Maquet-approved distributor.
- outside the warranty period: by a Maquet technician or Maquet-approved distributor, or a hospital technician trained in the Maquet SA products in question. (Please contact your Maquet dealer to undergo the technical training required).

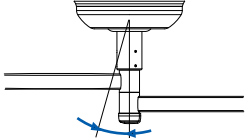
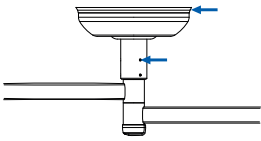
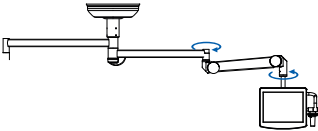
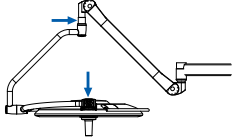
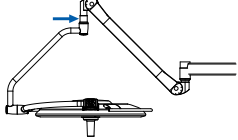
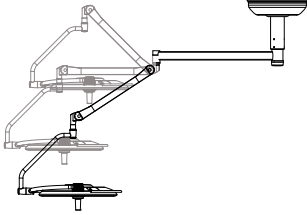
7.2 First-level maintenance

Daily checks (performed by the user)	
	<ul style="list-style-type: none"> • Check the lightheads for chipped paint, impact marks and any other damage.
	<ul style="list-style-type: none"> • Check the stability/drift of the main arms and the spring arms.
	<ul style="list-style-type: none"> • Check that the spring arm remains in position. • Check at three points: bottom, middle, top.
	<ul style="list-style-type: none"> • Check that the sterilisable handle clicks and locks in place correctly; replace it if not.
	<ul style="list-style-type: none"> • Check whether the green LED lights up when the lighthead is turned on.
	<ul style="list-style-type: none"> • Check that the LEDs operate correctly. <p>DANGER! The surgical light is a high-intensity light source. Do not look directly into it.</p>
	<ul style="list-style-type: none"> • Check whether the system switches correctly between surgical light and ambient light modes, and between standard mode and AIM mode (if this option is installed).

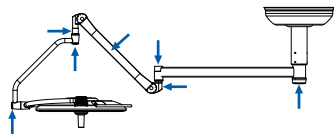
Monthly checks
(Only for PowerLED power supply units with battery backup)

	<ul style="list-style-type: none"> • Check the lightheads for chipped paint, impact marks and any other damage.
	<ul style="list-style-type: none"> • Check that there are no particles which could cause friction in the Quick Lock interface; remove any dust from the areas concerned on the camera/handle and the lighthouse.
	<ul style="list-style-type: none"> • Check whether the backup power supply turns on and the light operates correctly if the mains power is cut. • Orange LED (see page 18).

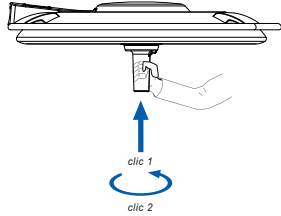
Annual checks
(must be performed by an authorised technician)

	<ul style="list-style-type: none"> • Check the verticality of the suspension tube.
	<ul style="list-style-type: none"> • Every six years, as a preventive measure, replace the mounting screws holding the suspension tube to the anchor point with new pre-glued screws, and tighten to torque (refer to the appendix in the technical manual). • Check that the seals are correctly located.
	<ul style="list-style-type: none"> • Check that the limit stops are in place on the spring arms supporting the flat screens.
	<ul style="list-style-type: none"> • Check the snap rings on all the lightheads.
	<ul style="list-style-type: none"> • Remove the lightheads and lubricate the sleeves.
	<ul style="list-style-type: none"> • Check whether the spring arm is correctly balanced. WARNING! Spring arms should be replaced every six years (wear parts).

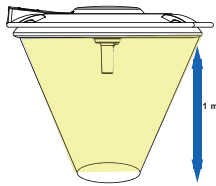
Annual checks (must be performed by an authorised technician)



- Check for any loose covers and caps.



- Check the locking mechanism for the sterilisable handle.



- Use a luxmeter to check the illumination value at 1 m; refer to the technical manual for details.



WARNING!

The operation and safety of the device may be affected by the removal of certain components during servicing operations. For example:

- When servicing the electrical power supply,
- When servicing the suspension arms and balance system,

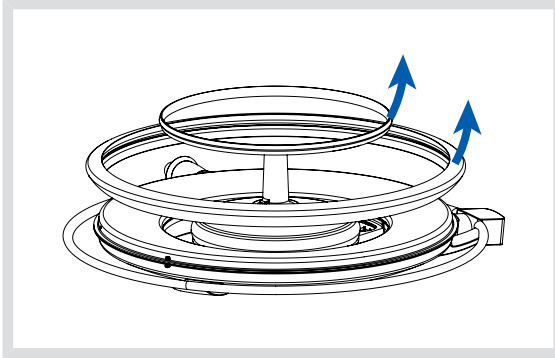
Contact your authorised Maquet after-sales service department for this type of servicing.

8 PWD 700 and 700 Evolution maintenance procedures

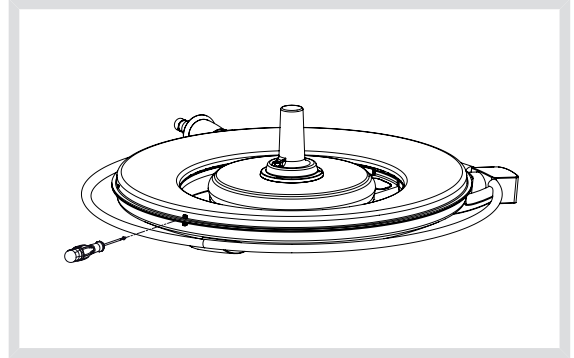
8.1 Replacing the outer underside

RECOMMENDATION

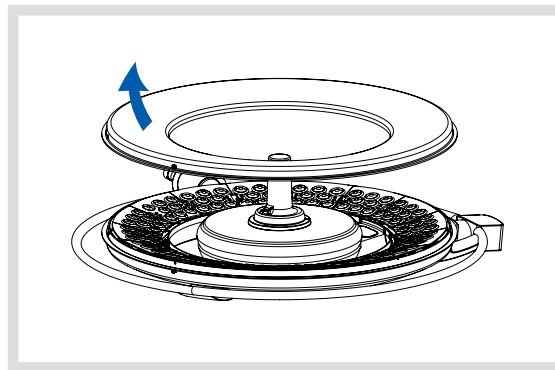
Lay the lighthouse so that the underside is facing the ceiling.



- Remove the inner and outer seals.



- Remove the four Torx screws.



- Remove the underside.

NOTICE

Reassemble by following the above instructions in reverse order.

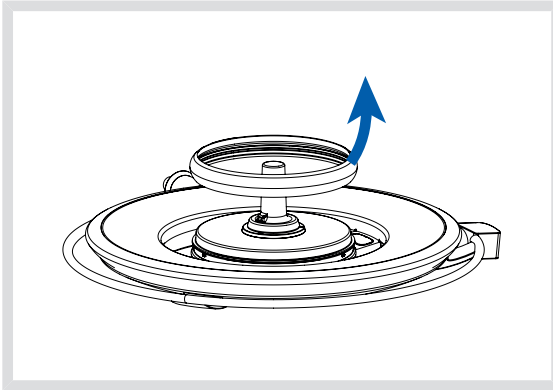


WARNING!

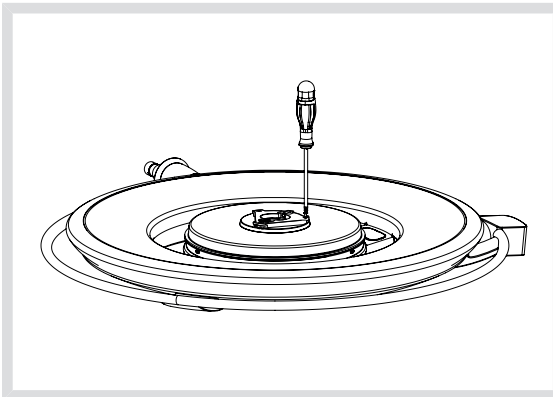
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

8.2 Replacing the inner underside

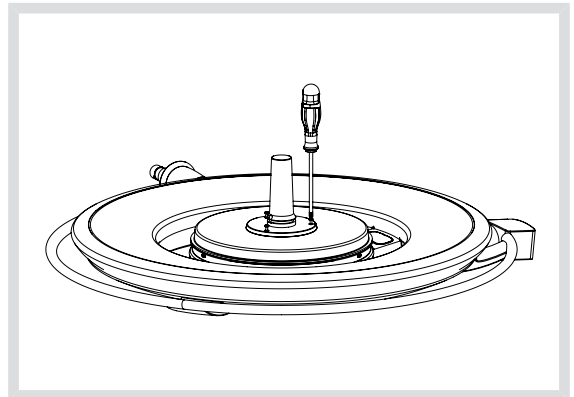


- Remove the centre seal.

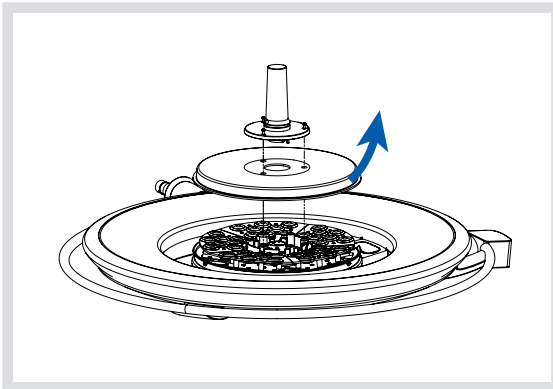


- Remove the three mounting screws and lift off the Quick Lock locking interface.

OR



- Remove the three mounting screws and lift off the sterile handle mount.



- Remove the underside.

NOTICE

Reassemble by following the above instructions in reverse order.

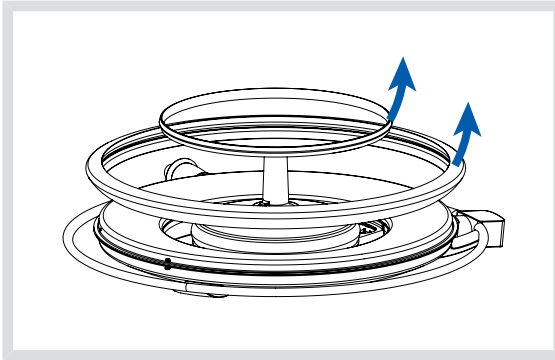


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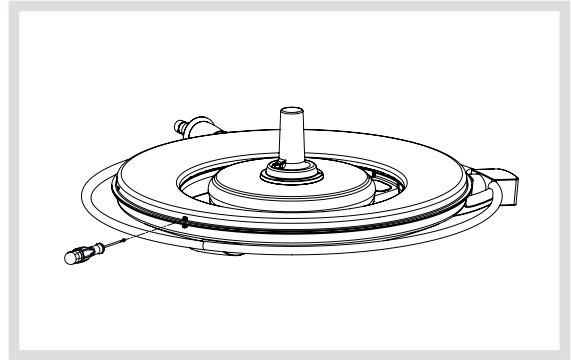
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

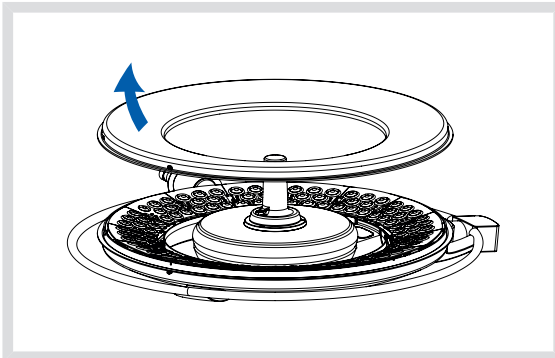
8.3 Replacing an outer LED module



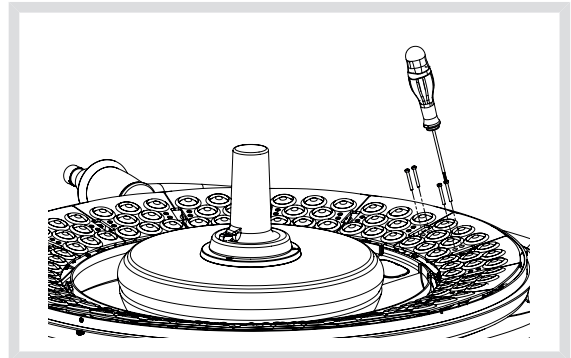
- Remove the inner and outer seals.



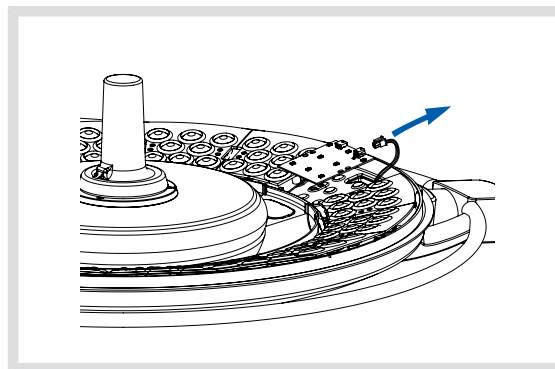
- Remove the three Torx screws.



- Remove the underside.



- Remove the four Torx screws from the lens module.



- Unplug the connector.
- Detach the lens module.
- Remove the LED module.

RECOMMENDATION The LEDs have an average life of 60,000 hours (note that this value does not take account of other electronic components). We recommend replacing the LED modules as soon as illumination drops to 15% below the specified value.

NOTICE

Reassemble by following the above instructions in reverse order.

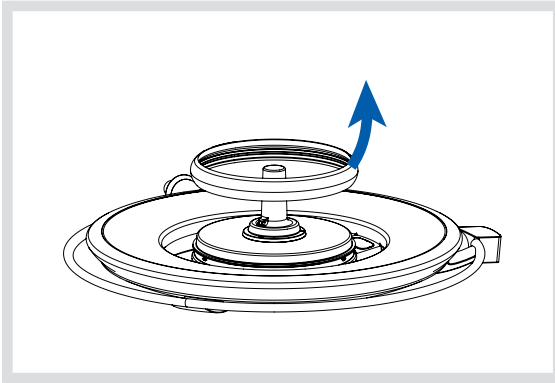


WARNING!

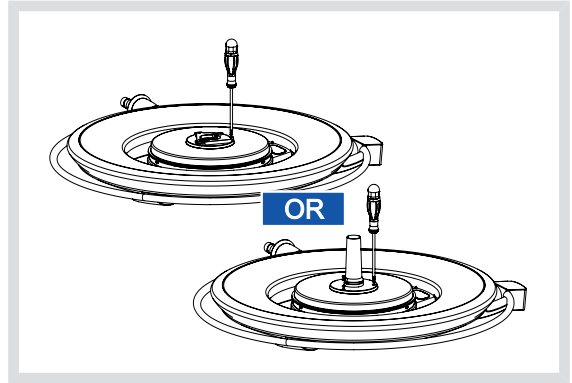
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

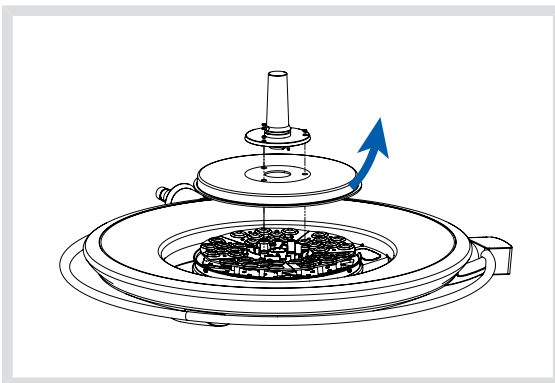
8.4 Replacing an inner LED module



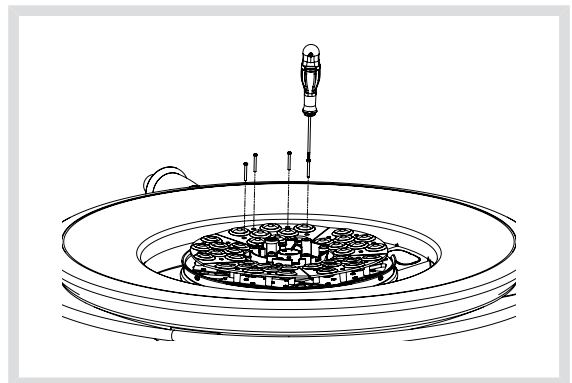
- Remove the centre seal.



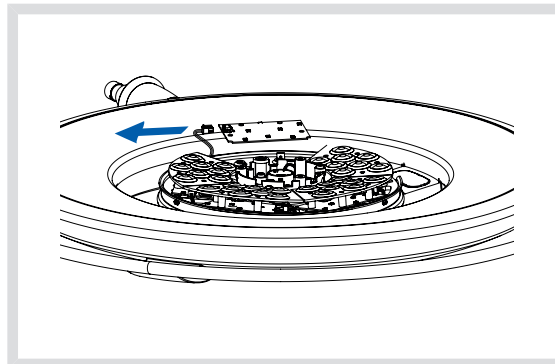
- Remove the three mounting screws and lift off the Quick Lock locking interface or the sterile handle mount.



- Remove the underside.



- Remove the four Torx screws from the LED module.



- Unplug the connector.
- Detach the lens module.
- Remove the LED module.

RECOMMENDATION The LEDs have an average life of 60,000 hours (note that this value does not take account of other electronic components). We recommend replacing the LED modules as soon as illumination drops to 15% below the specified value.

NOTICE

Reassemble by following the above instructions in reverse order.

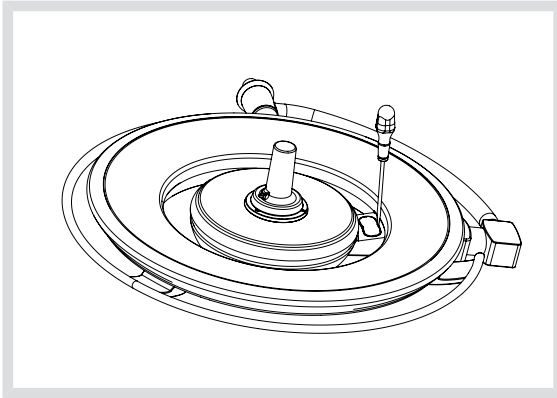


WARNING!

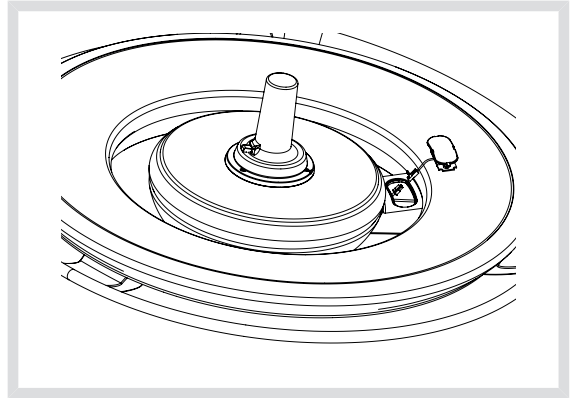
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

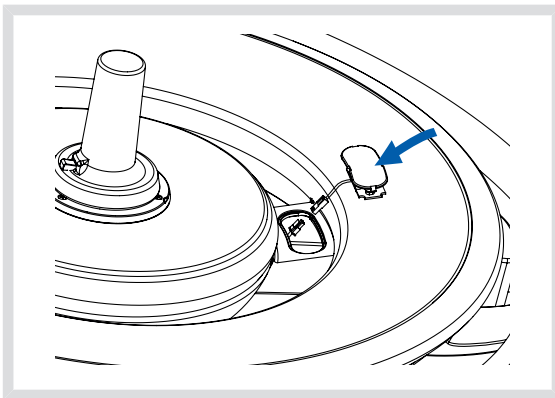
8.5 Replacing the ambient LED module



- Remove the ambient LED module (using a flat-bladed screwdriver).



- Unplug the connector.
- Remove the ambient LED module.



NOTICE

Reassemble by following the above instructions in reverse order.



WARNING!

Take care not to damage the clip.

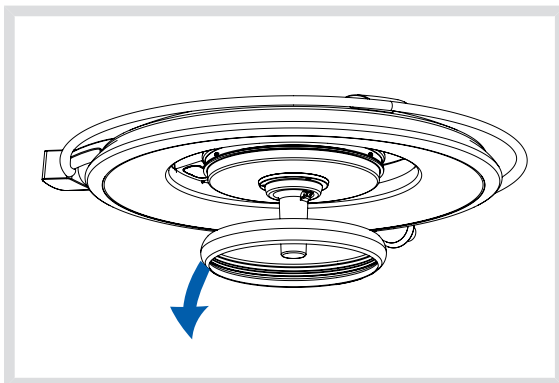


WARNING!

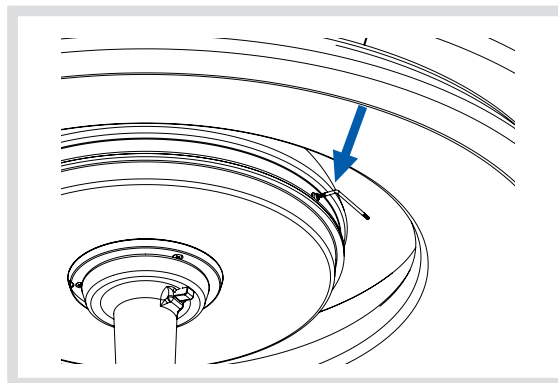
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

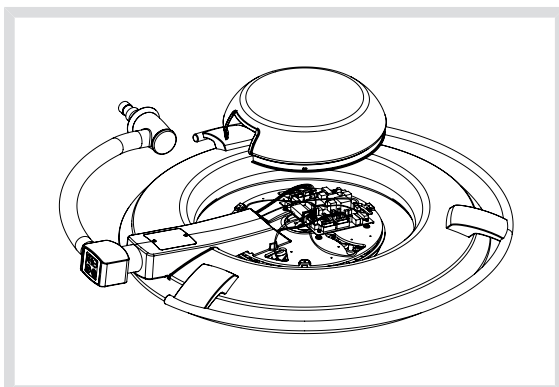
8.6 Replacing the control board



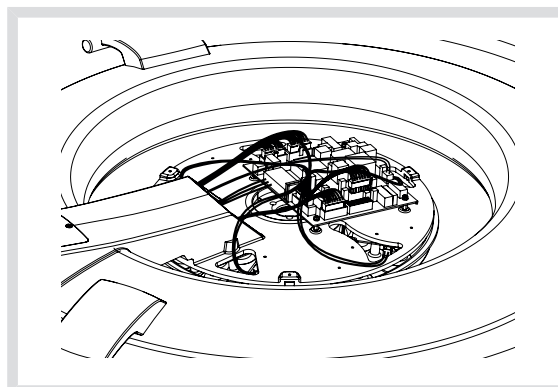
- Remove the centre seal.



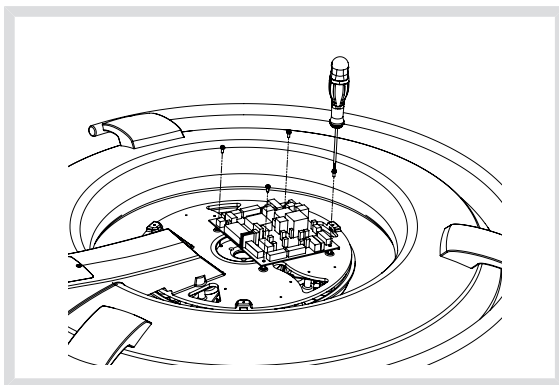
- Remove the three Torx screws.



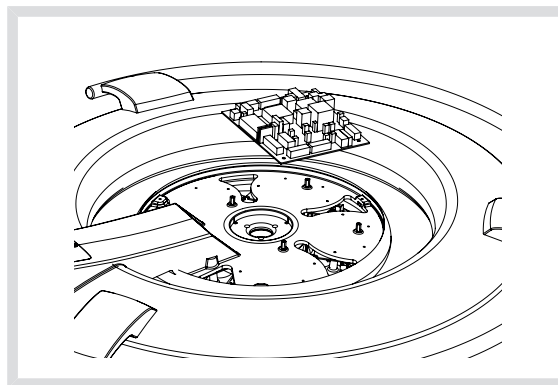
- Remove the centre shell.



- Unplug all the connectors on the control board.



- Remove the four screws from the control board.



- Remove the control board.

NOTICE

Reassemble by following the above instructions in reverse order.

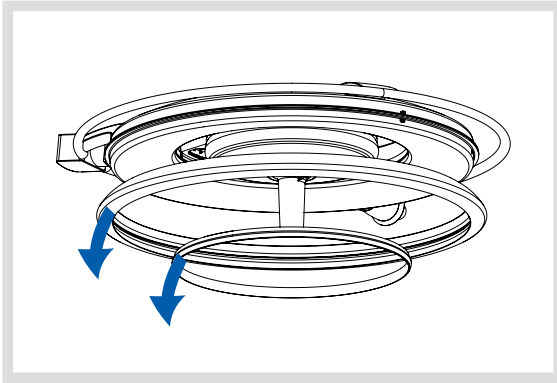


WARNING!

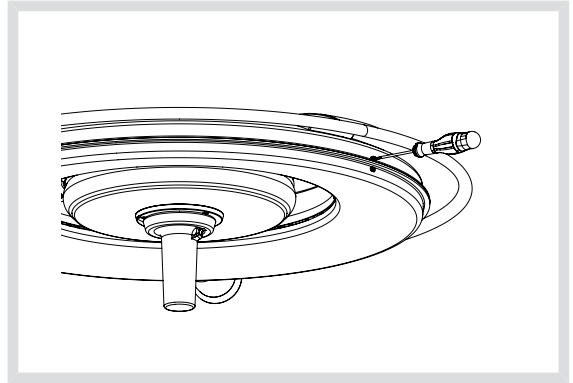
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

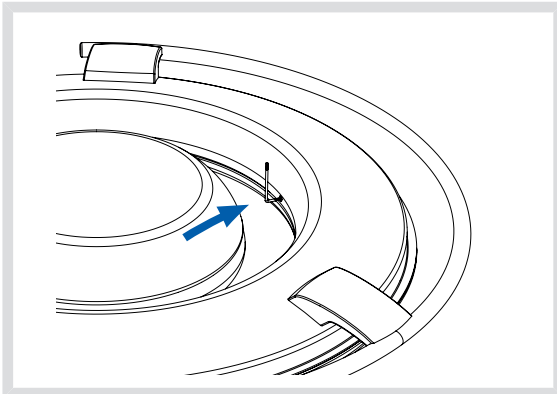
8.7 Replacing the outer handle



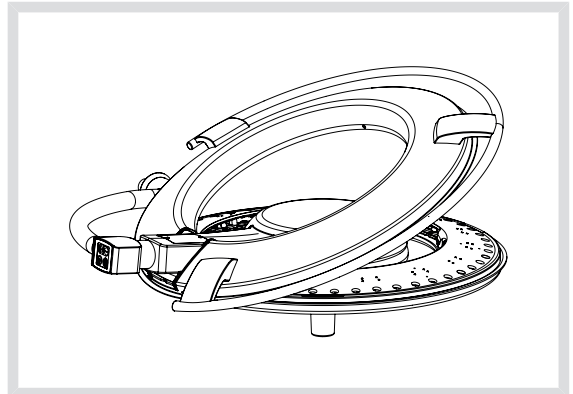
- Remove the inner and outer seals.



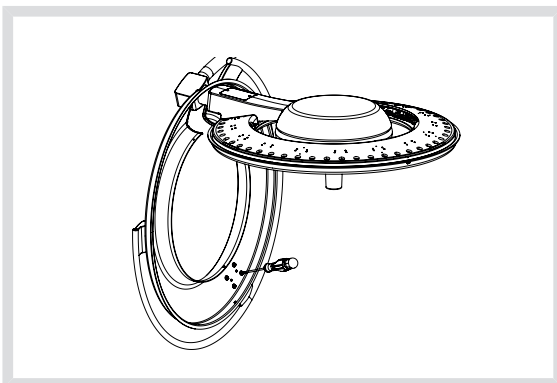
- Remove the four outer Torx screws.



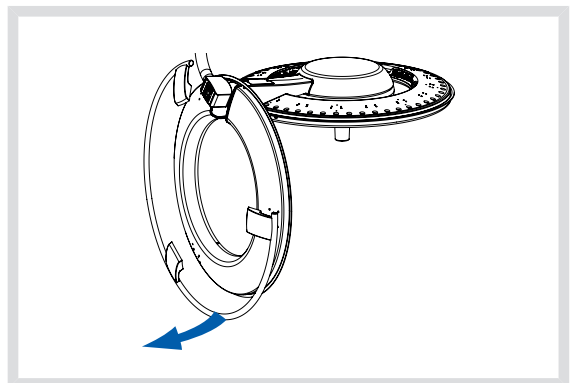
- Remove the four inner Torx screws.



- Remove the outer shell.



- Remove the 12 Torx screws.



- Remove the outer handle.

NOTICE

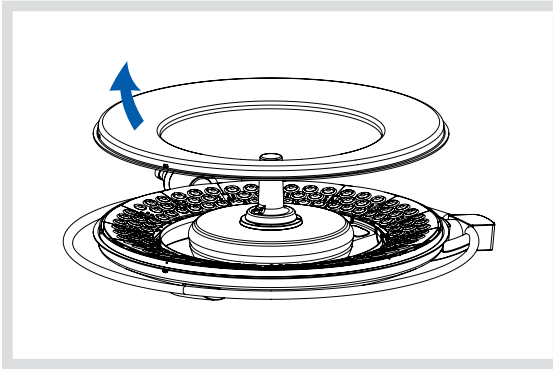
Reassemble by following the above instructions in reverse order.



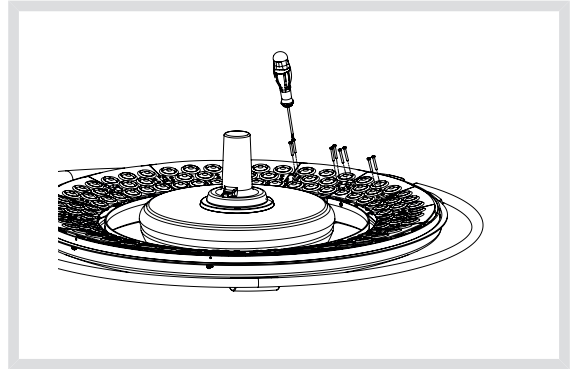
WARNING!

- Take care not to scratch or damage:
- the lenses
 - the LEDs
 - the seals
 - the paint on the fork.

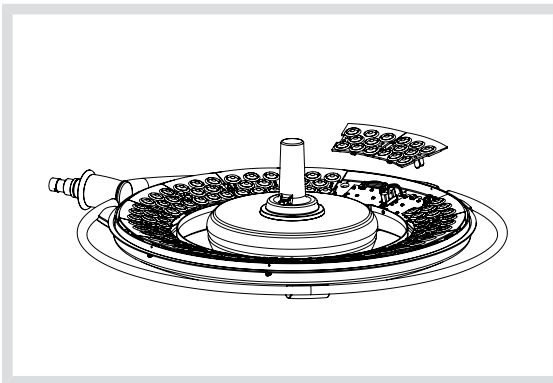
8.8 Replacing the AIM sensor (head detection)



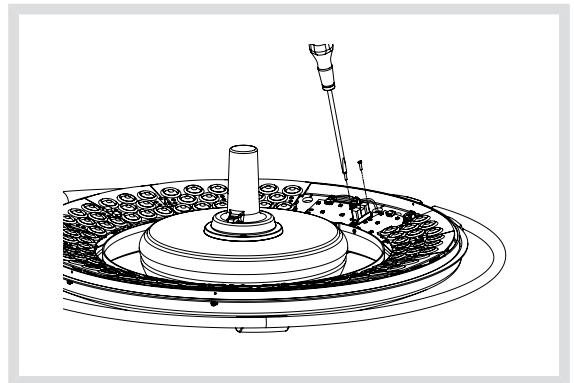
- Remove the underside (see the corresponding section).



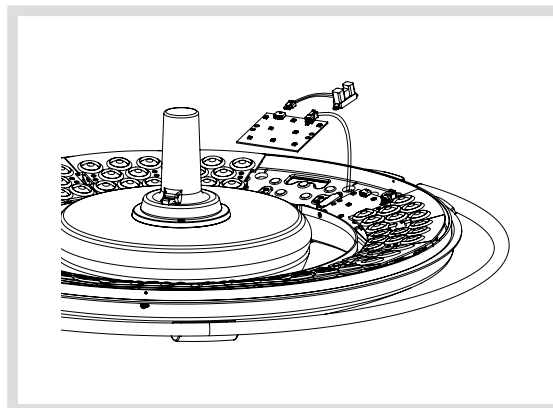
- Remove the eight Torx screws from the lens modules.



- Remove two lens modules.



- Remove the two screws.



- Unplug the connector.
- Detach the lens module.
- Remove the AIM sensor.

NOTICE

Reassemble by following the above instructions in reverse order.



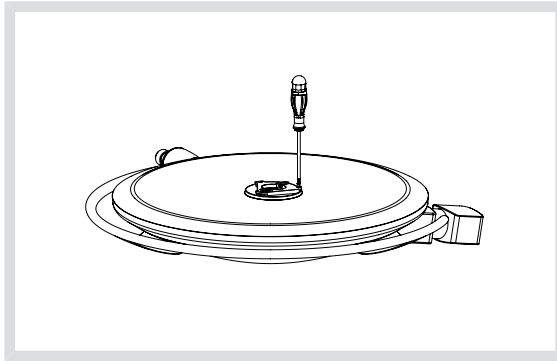
WARNING!

Take care not to scratch or damage:

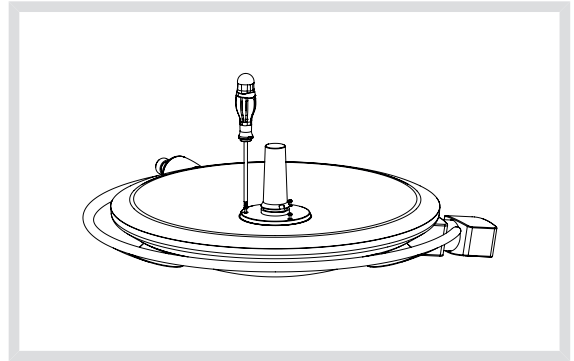
- the lenses
- the LEDs
- the seals
- the paint on the fork.

9 PWD 500 maintenance procedures

9.1 Replacing the underside

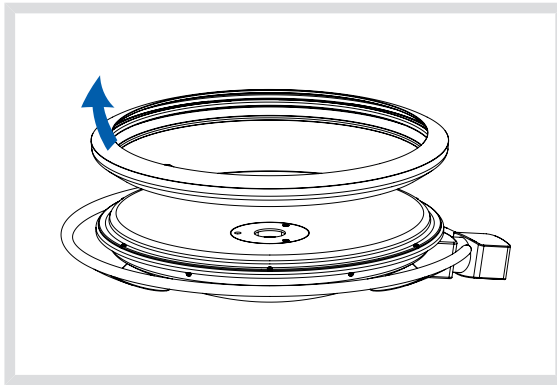


OR

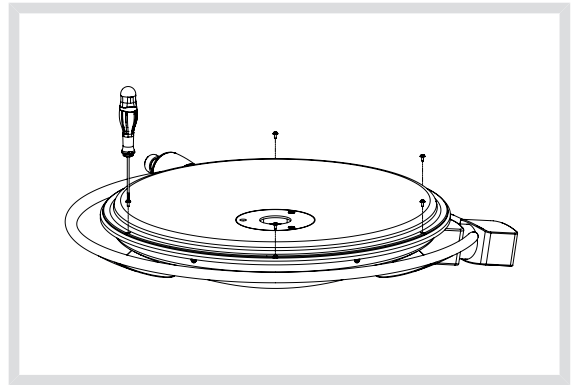


- Remove the three mounting screws and lift off the Quick Lock locking interface.

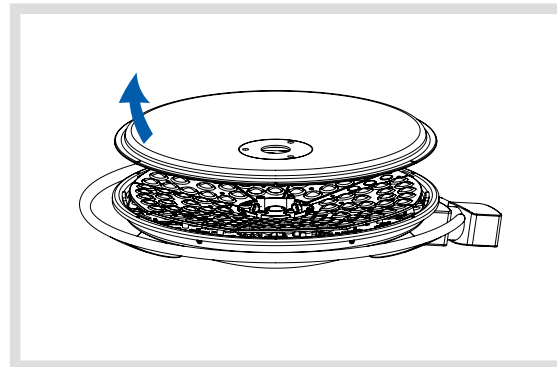
- Remove the three mounting screws and lift off the sterile handle mount.



- Remove the seal.



- Remove the six Torx screws.
- Remove the underside.



NOTICE

Reassemble by following the above instructions in reverse order.

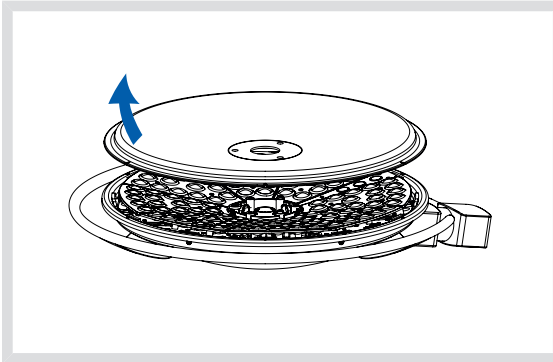


WARNING!

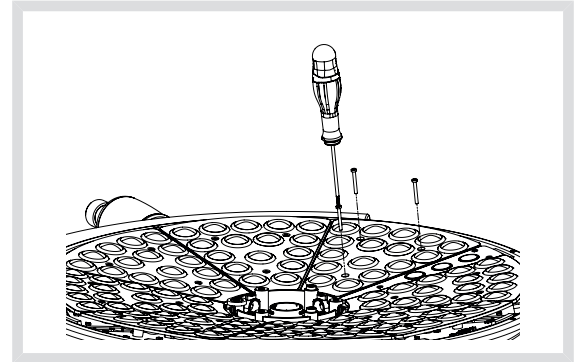
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

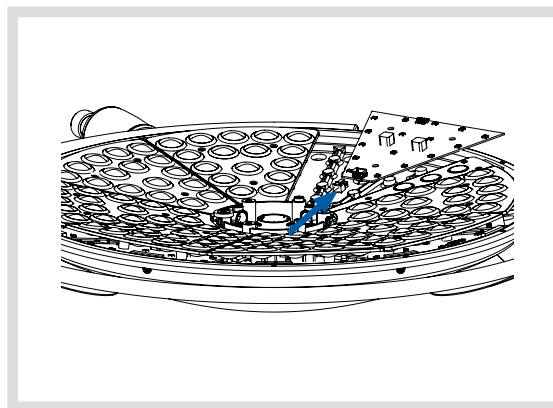
9.2 Replacing an LED module



- Remove the underside (see the corresponding section).



- Remove the three Torx screws from the LED module.



- Unplug the connector.
- Detach the lens module.
- Remove the LED module.

RECOMMENDATION The LEDs have an average life of 60,000 hours (note that this value does not take account of other electronic components). We recommend replacing the LED modules as soon as illumination drops to 15% below the specified value.

NOTICE

Reassemble by following the above instructions in reverse order.

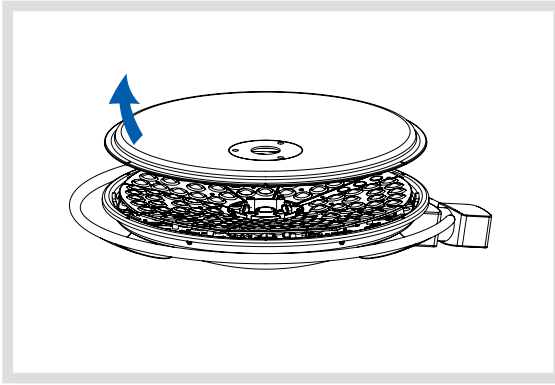


WARNING!

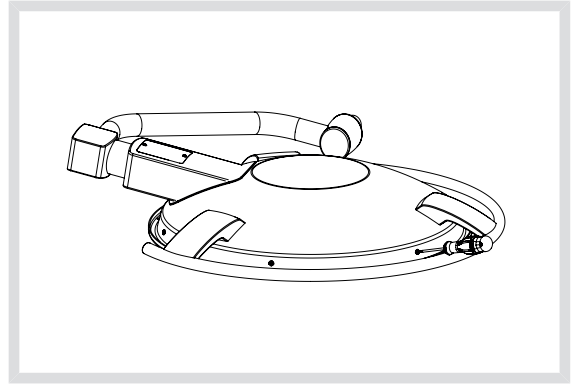
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

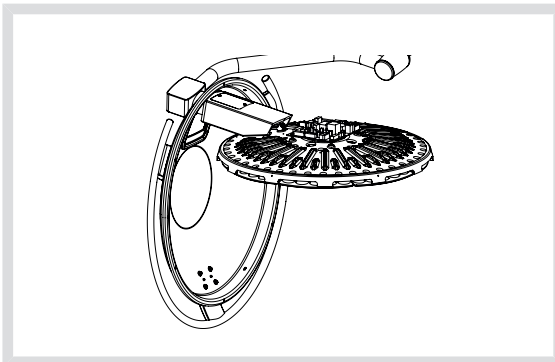
9.3 Replacing the ambient LED module



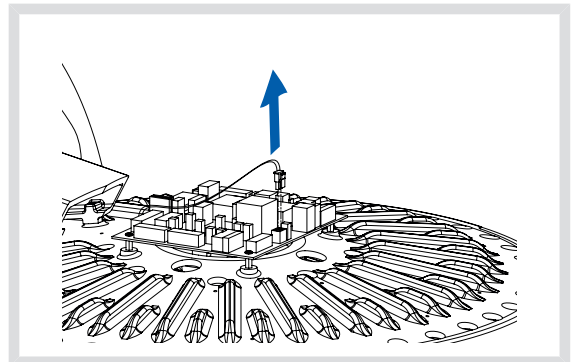
- Remove the underside (see the corresponding section).



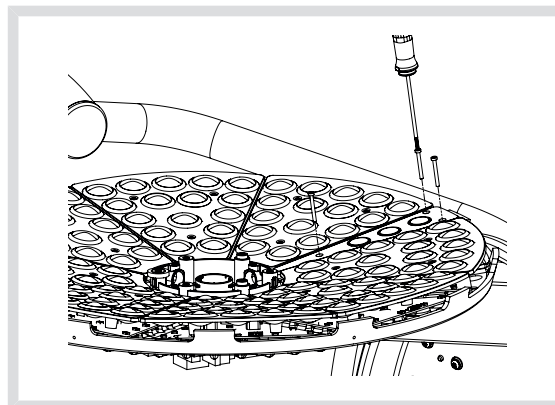
- Remove the six Torx screws.



- Slide the top cover over the fork.



- Unplug the connector on the control board.



- Remove the three Torx screws from the LED module.

NOTICE

Reassemble by following the above instructions in reverse order.

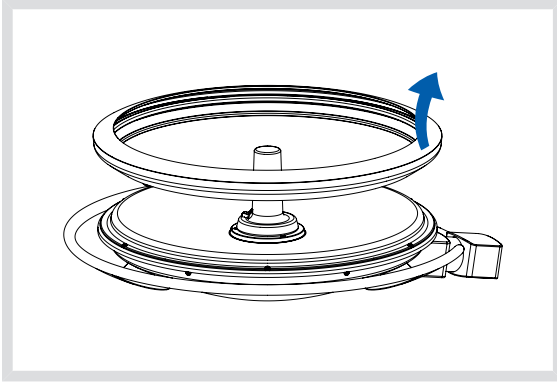


WARNING!

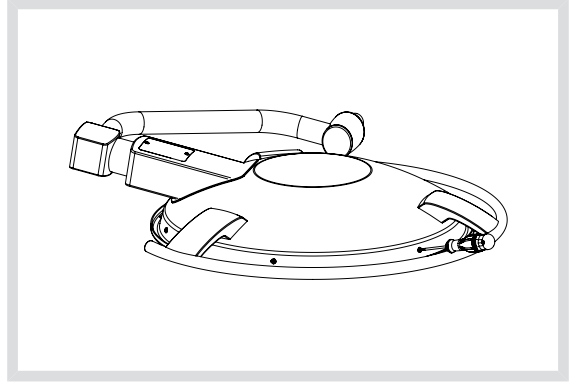
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

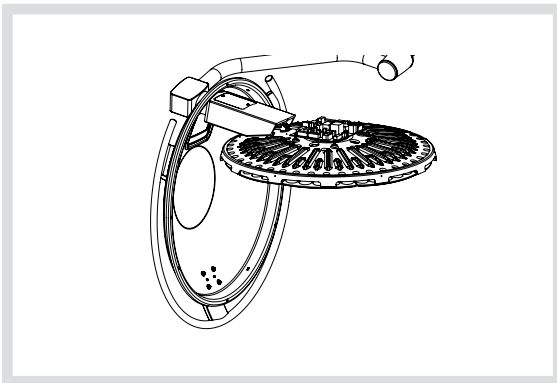
9.4 Replacing the control board



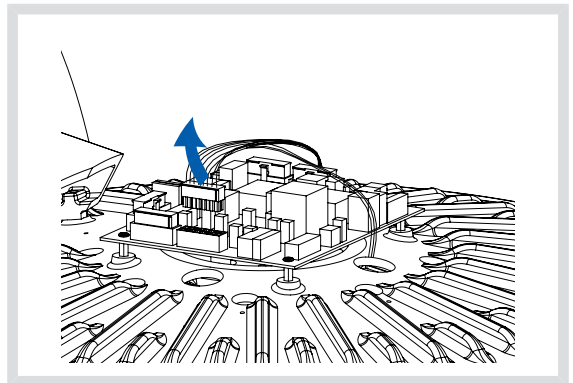
- Remove the seal.



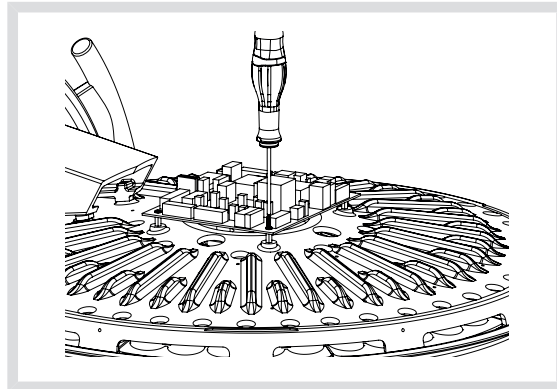
- Remove the 12 Torx screws from the cover and the underside.



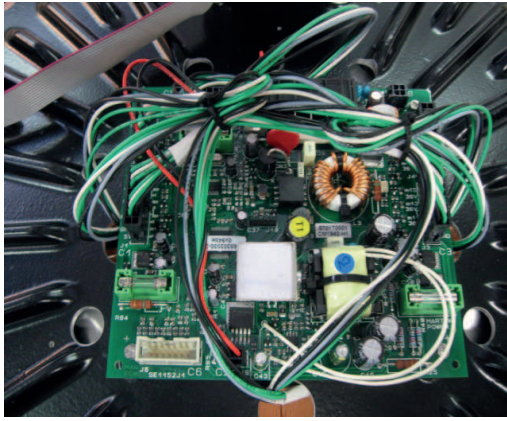
- Slide the top cover over the fork.



- Unplug all the connectors on the control board.



- Remove the four Torx screws.
- Remove and then replace the control board.



WARNING! After installing the new control board and reconnecting all the connectors, attach the cables using two cable ties as shown in the photo. The after-sales service kit ref.: ARD369074555 contains 10 cable ties. Finish reassembly by following the above instructions in reverse order.

NOTICE

Reassemble by following the above instructions in reverse order.



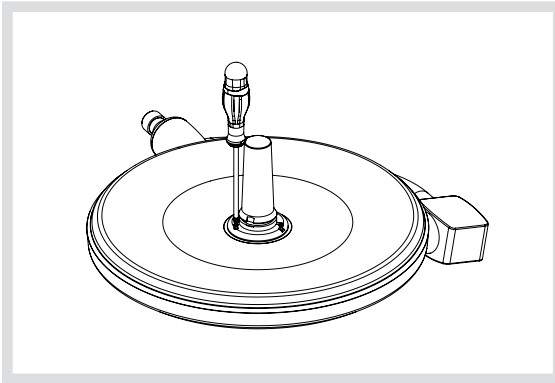
WARNING!

Take care not to scratch or damage:

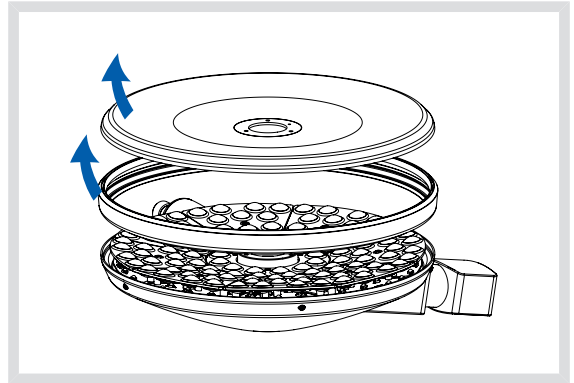
- the lenses
 - the LEDs
 - the seals
 - the paint on the fork.
-

10 PWD 300 maintenance procedures

10.1 Removing the underside

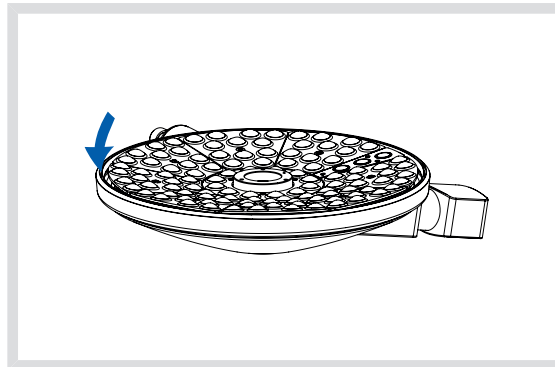


- Remove the three attachment screws and lift off the sterile handle mount.



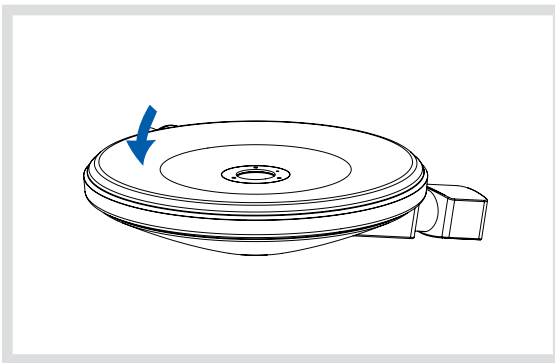
- Remove the underside with the seal.
- Pay attention to the direction of the seal.

10.2 Fitting the underside

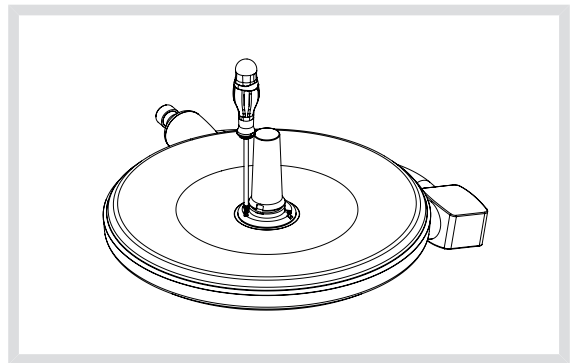


- Fit the seal.

WARNING! Take care to fit the seal in the correct direction.



- Fit the underside.



- Insert the three attachment screws on the sterile handle mount.

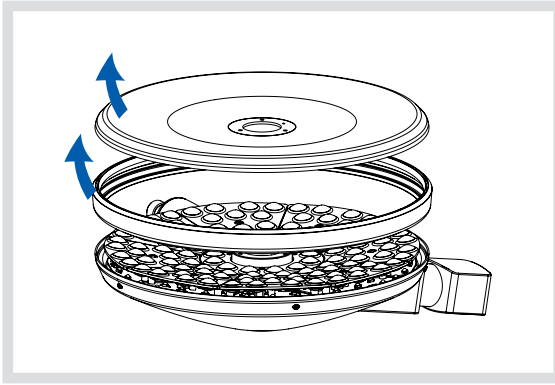


WARNING!

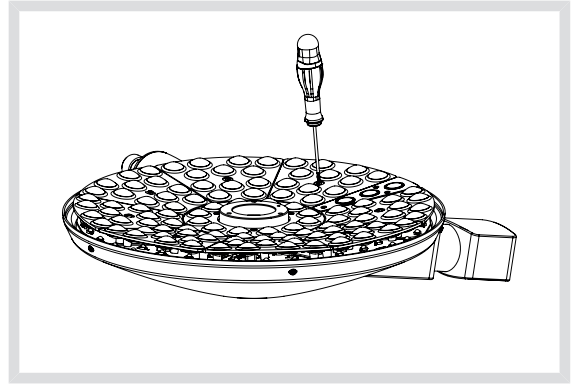
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

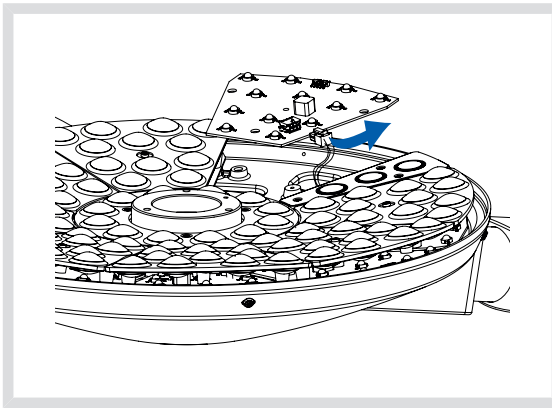
10.3 Replacing an LED module



- Remove the underside (see the corresponding section).



- Remove the Torx screw from the LED module.



- Unplug the connector.
- Remove the LED module.

RECOMMENDATION The LEDs have an average life of 60,000 hours (note that this value does not take account of other electronic components). We recommend replacing the LED modules as soon as illumination drops to 15% below the specified value.

NOTICE

Reassemble by following the above instructions in reverse order.

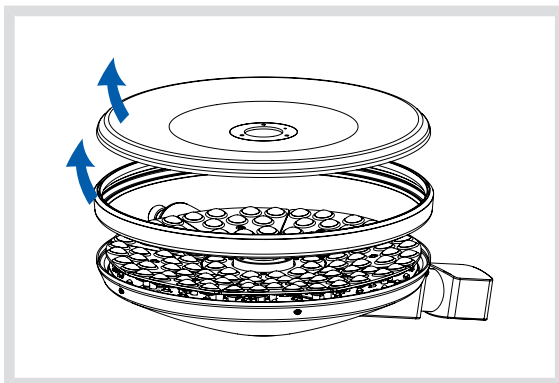


WARNING!

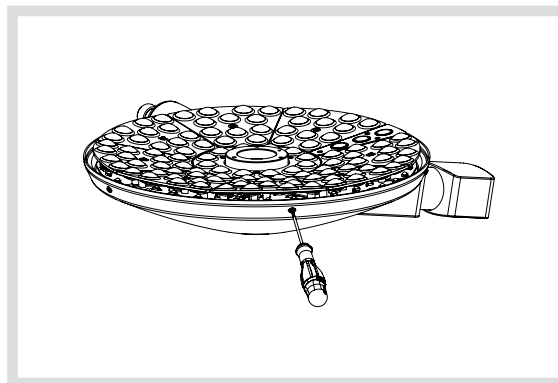
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

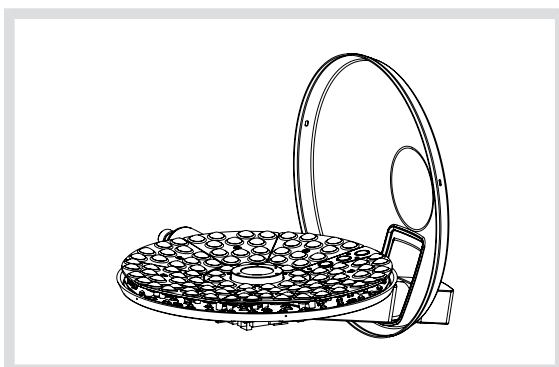
10.4 Replacing the ambient LED module



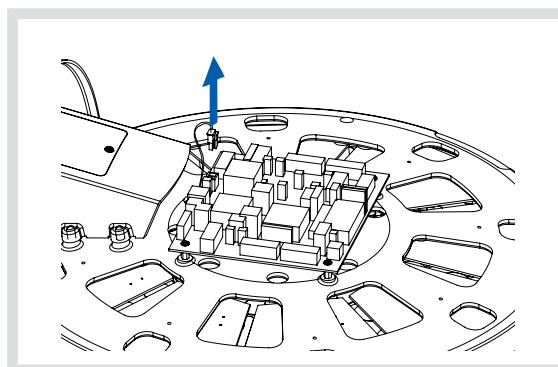
- Remove the underside (see the corresponding section).



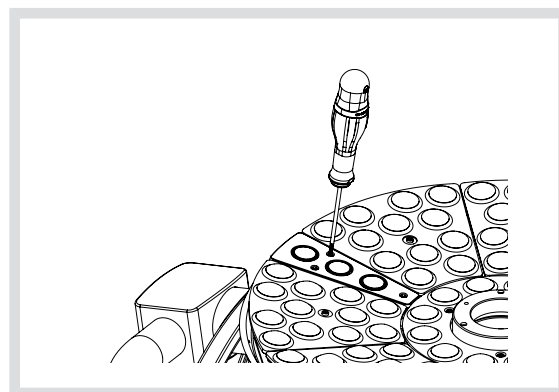
- Remove the five screws from the cover.



- Slide the top cover over the fork.



- Unplug the connector on the control board.



- Remove the three Torx screws from the LED module.

NOTICE

Reassemble by following the above instructions in reverse order.

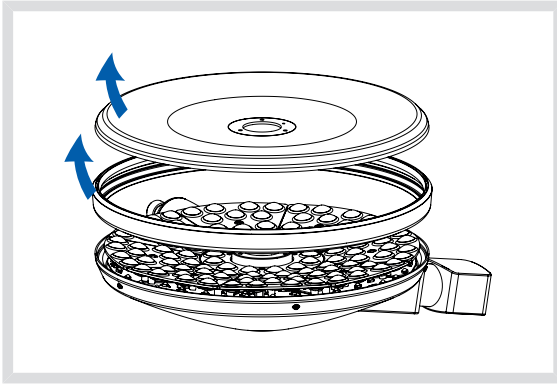


WARNING!

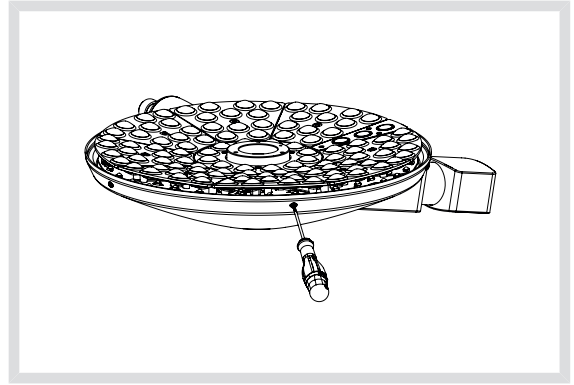
Take care not to scratch or damage:

- the lenses
- the LEDs
- the seals
- the paint on the fork.

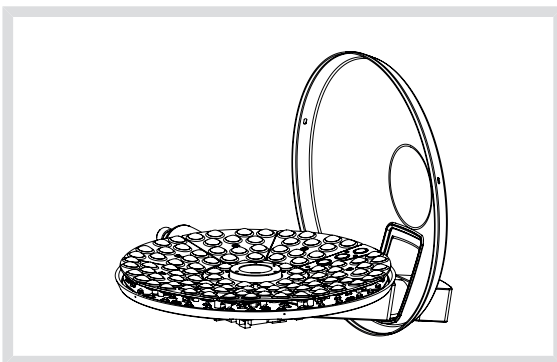
10.5 Replacing the control board



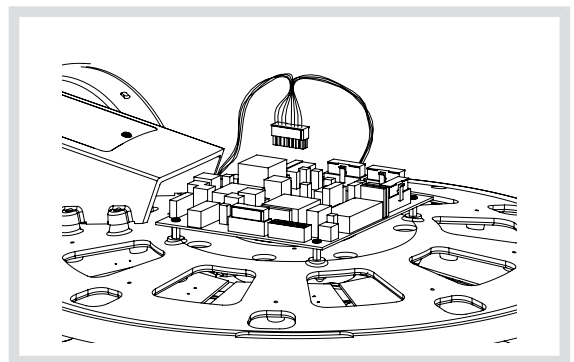
- Remove the underside (see the corresponding section).



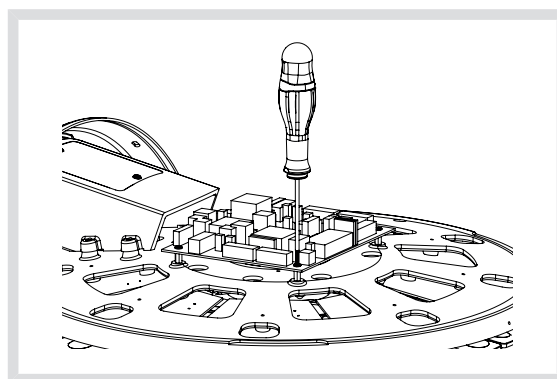
- Remove the five screws from the cover.



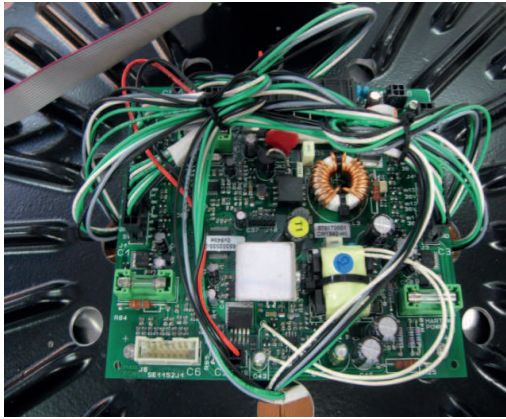
- Slide the top cover over the fork.



- Unplug all the connectors on the control board:
 - grey control keypad ribbon cable
 - 5 LED module cables
 - 1 ambient LED module cable
 - 1 main power supply connector.



- Remove the four Torx screws from the control board.
- Remove and then replace the control board.



WARNING! After installing the new control board and reconnecting all the connectors, attach the cables using two cable ties as shown in the photo. The after-sales service kit ref.: ARD369074555 contains 10 cable ties. Finish reassembly by following the above instructions in reverse order.



WARNING!

Take care not to scratch or damage:

- the lenses
 - the LEDs
 - the seals
 - the paint on the fork.
-

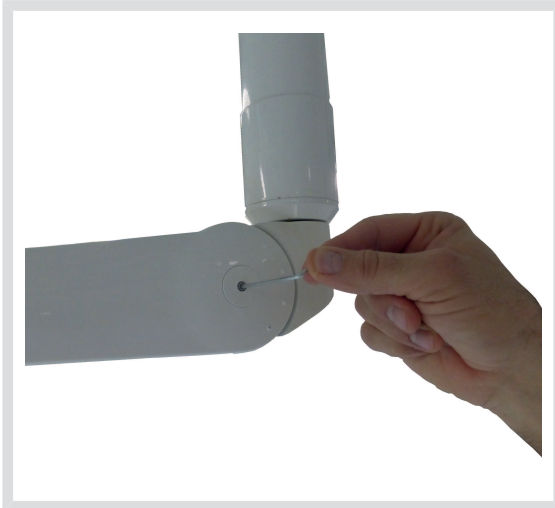
11 Replacing the Acrobat 2000 SF/DF spring arm covers and/or half-rings



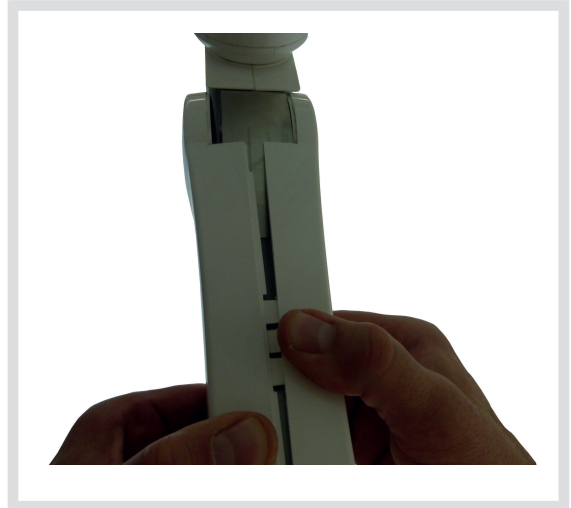
WARNING!

The metal half-rings on the spring arm should be handled with care to avoid any risk of cuts.

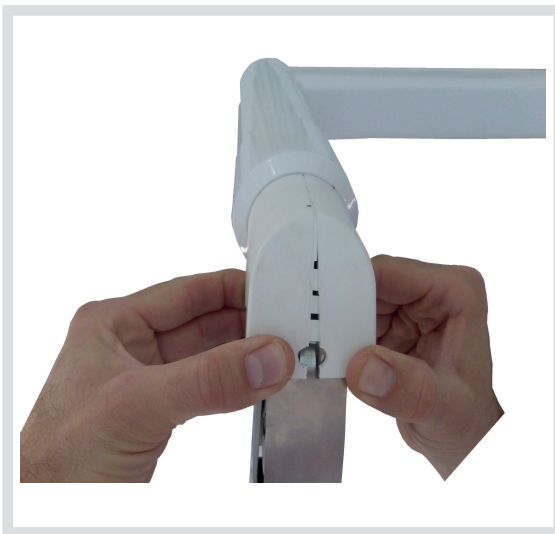
Removing the covers and half-rings



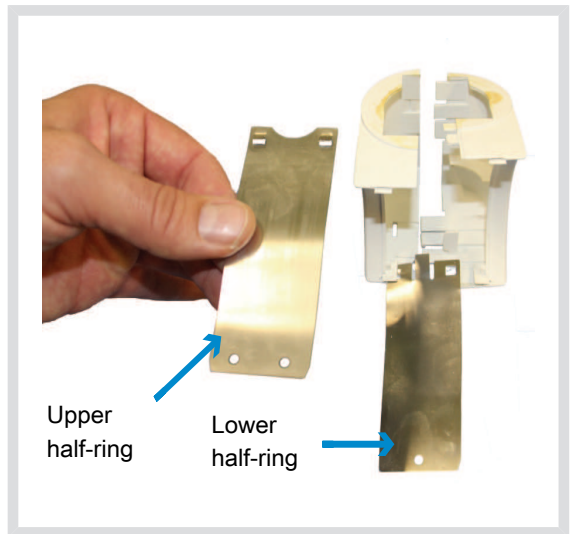
- Remove the side screws.



- Gently pull the two covers apart.



- Using a flat-bladed screwdriver, unclip the side cover plates.

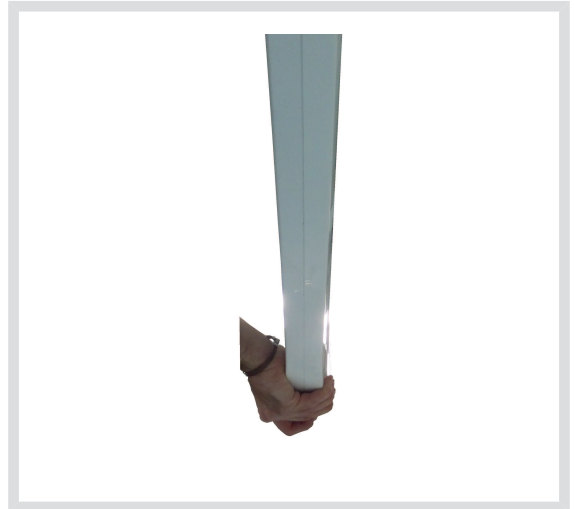


- Remove the half-rings.

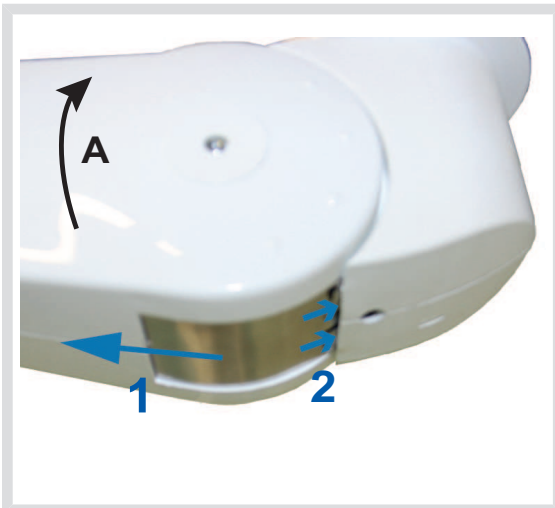
Installing the covers and half-rings



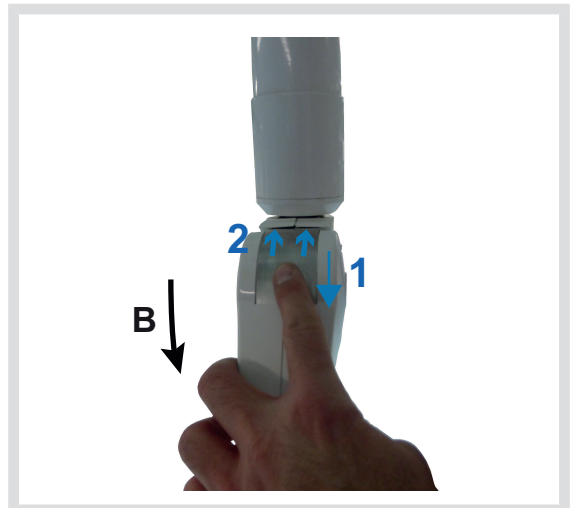
- Reposition the (new) side cover plates and clip them into place.



- Reposition the (new) covers and clip them into place.
- Tighten the side screws.

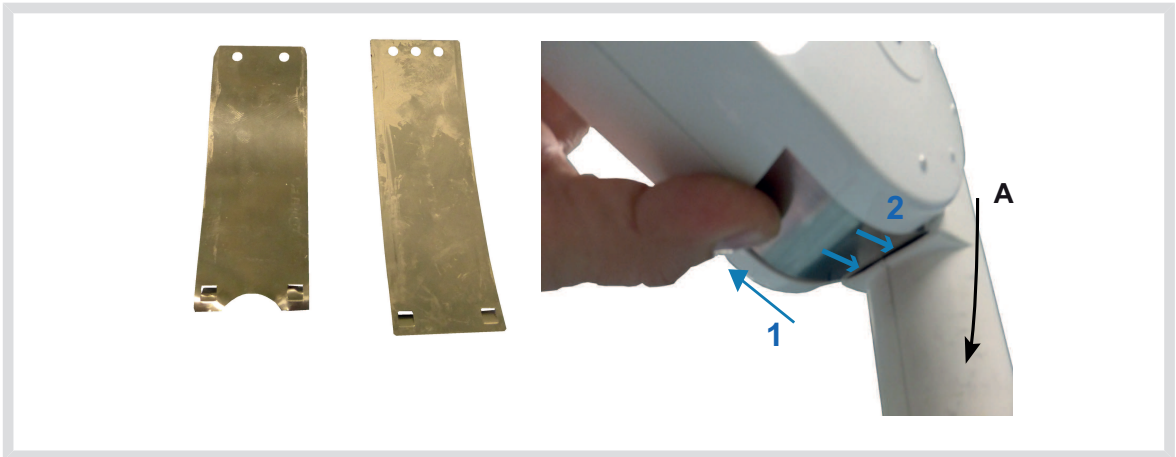


- Position the arm against the upper limit stop (A).
- Insert the (new) half-ring into the grooves in the plastic covers (1).
- Slide the half-ring in the other direction and up to the clip (2).

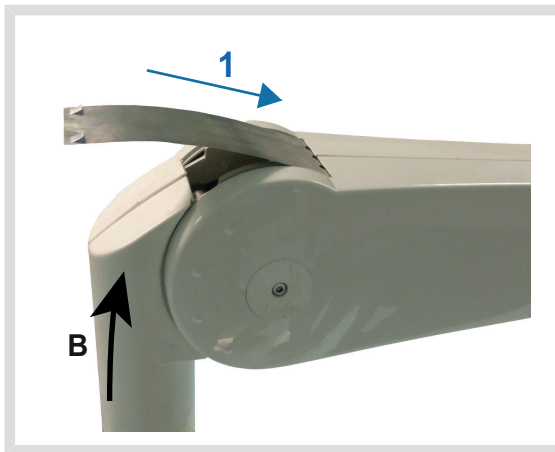


- Position the arm against the lower limit stop (A).
- Insert the (new) half-ring into the grooves in the plastic covers (1).
- Slide the half-ring in the other direction and up to the clip (2).

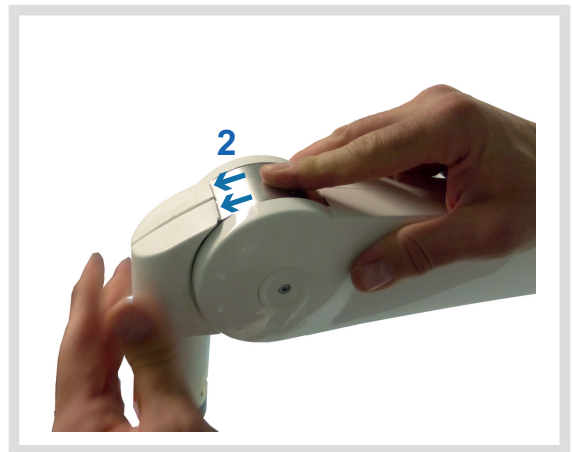
For DF version only



- Position the arm against the lower limit stop **(A)**.
- Insert the (new) half-ring into the grooves in the plastic covers **(1)**.
- Slide the half-ring in the other direction and up to the clip **(2)**.

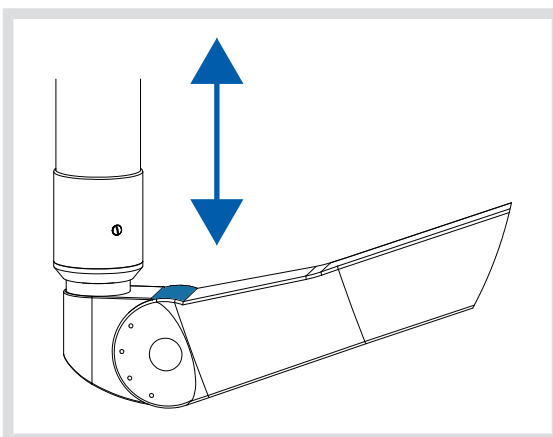


- Position the arm against the upper limit stop **(B)**.
- Insert the (new) half-ring into the grooves in the plastic covers **(1)**.



- Slide the half-ring in the other direction and up to the clip **(2)**.

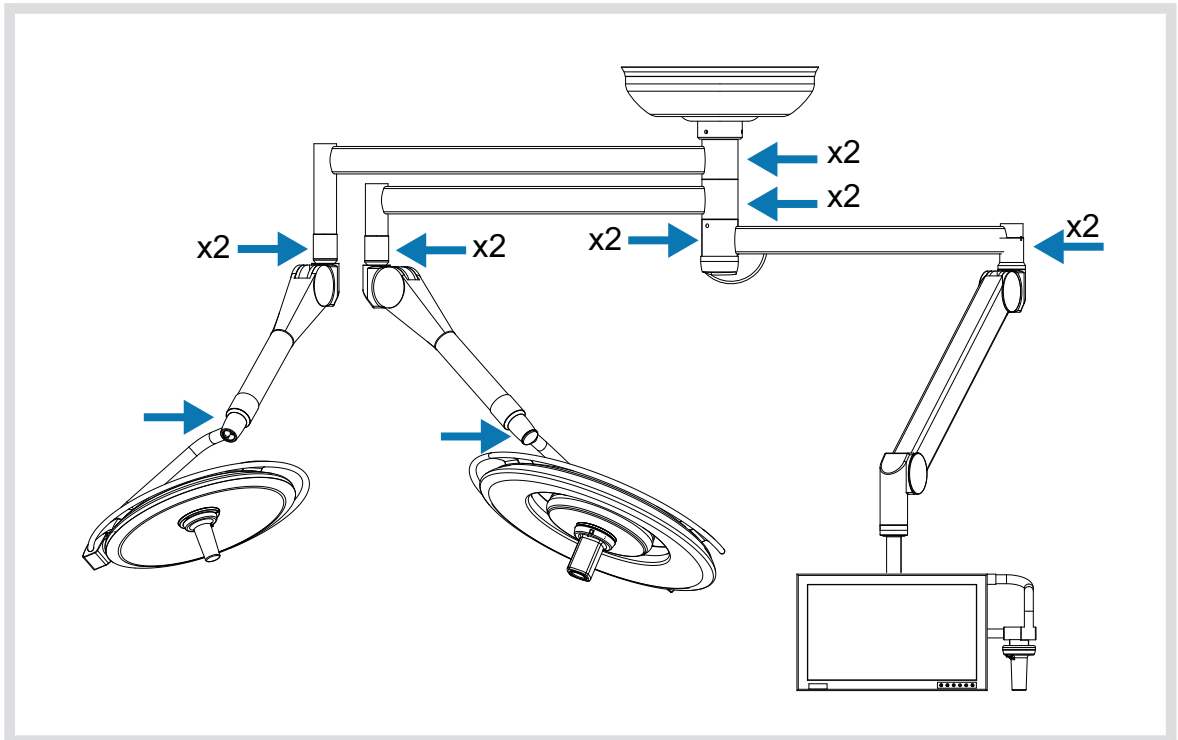
Checking that the cover and half-rings are properly assembled



- Raise and lower the spring arm.
- Inspection:** check that the half-rings slide correctly.

12 Adjusting the brakes

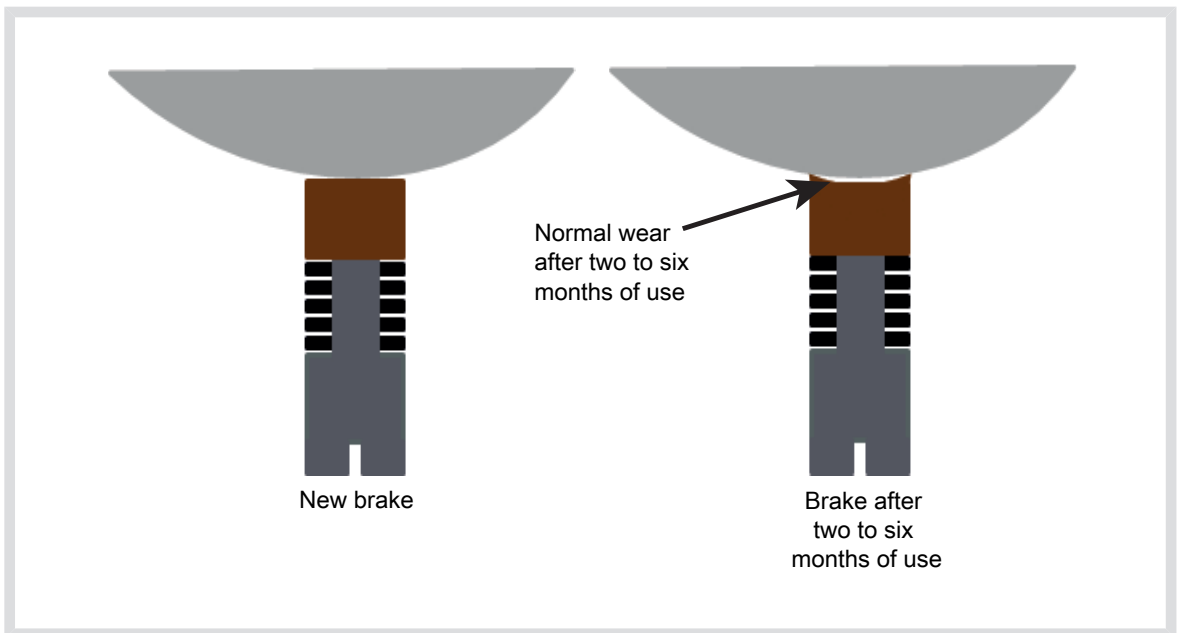
Suspension arm



- Tighten to apply the brake
- Loosen to release the brake.

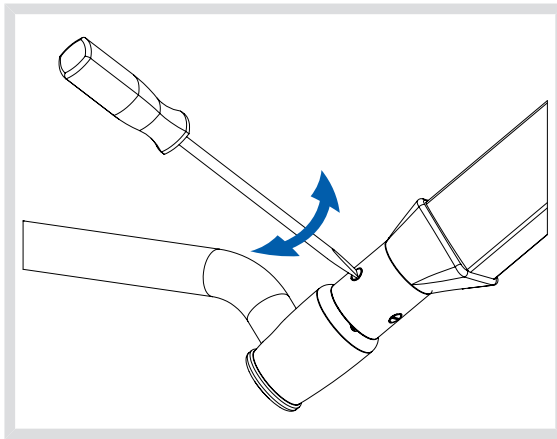
RECOMMENDATION

It is normal for a newly installed brake to need to be re-adjusted after two to six months of use in order to compensate for wear.

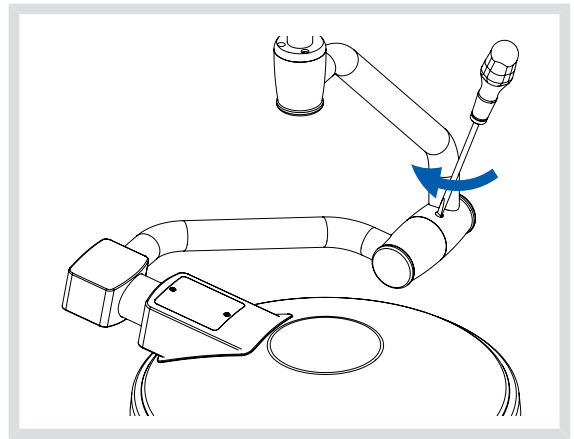


SF spring arm

Fork

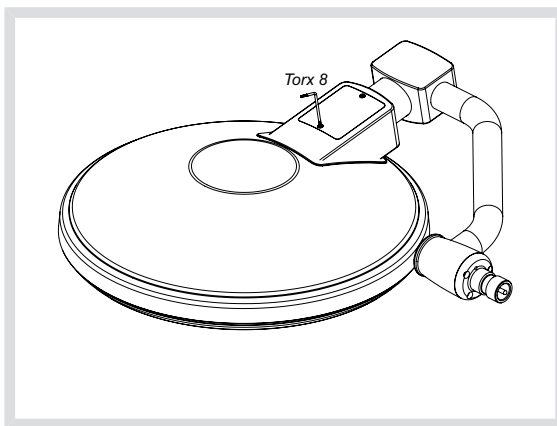


- Tighten to apply the brake.
- Loosen to release the brake.

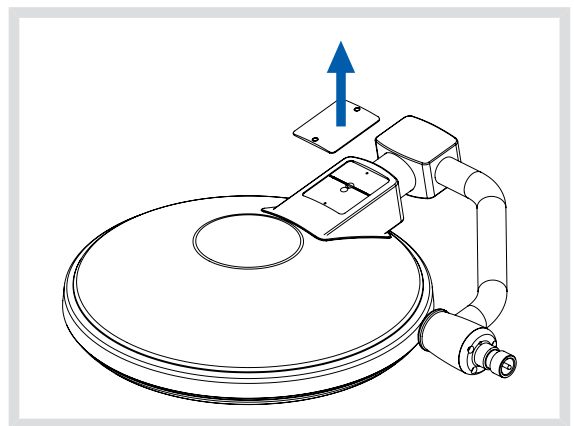


- Tighten to apply the brake.
- Loosen to release the brake.

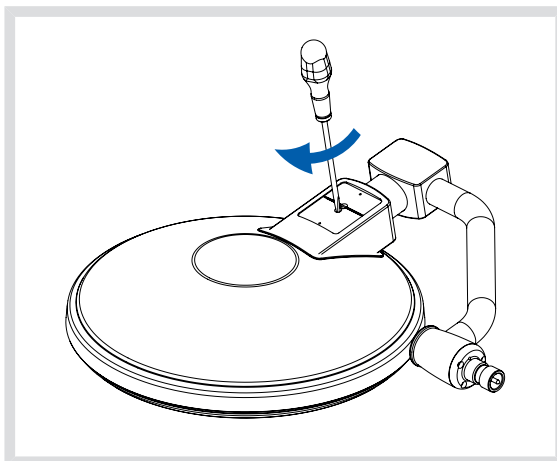
Lighthouse



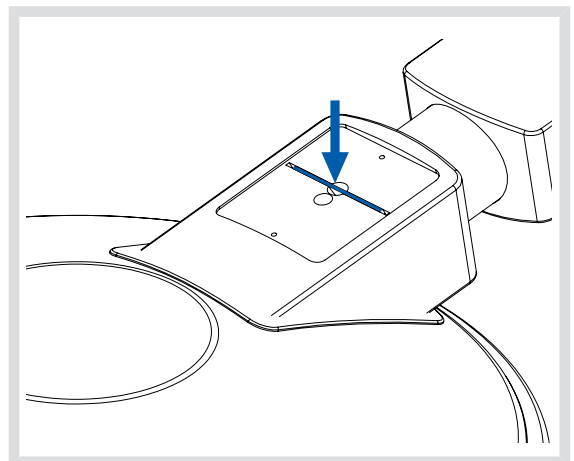
- Remove the two mounting screws and the spacers.



- Remove the logo plate.



- Tighten to apply the brake.
- Loosen to release the brake.



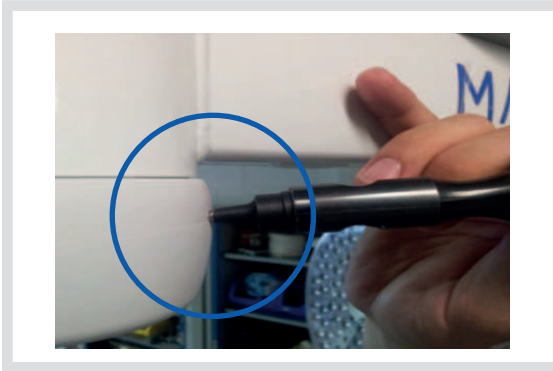
- Make sure the snap ring is in place.
- Fit the two mounting rings and the spacers to secure the logo plate.

13 Attaching the bumper 567802019 to the SA suspension arm

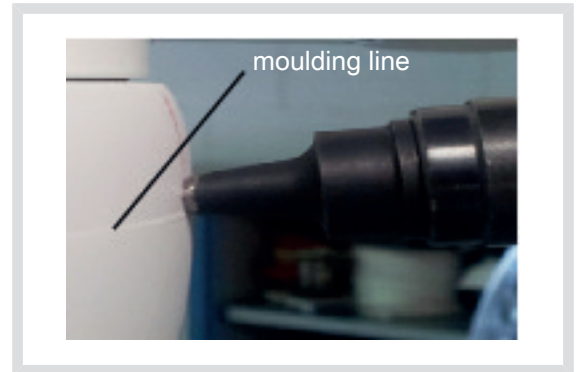
Tools required:

- Punch, diameter 3 mm
- Hammer
- Set of Allen keys
- Two M4×12 pan head socket screws, stainless steel: ARD600990029.

Procedure:



- Install the bumper on the suspension arm.
- Position the punch as shown in the photo above (tangential to the moulding line).



- Punch a hole.
- Rotate the bumper so that the hole is aligned with the tapped hole in the suspension arm.



- Attach the bumper using the first screw.



- On the opposite side, slide the bumper downwards to reveal the second tapped hole in the suspension arm, and mark the position.
- Use the punch to make a hole, as above.
- Attach the bumper using the second screw.

14 Installation of circlips



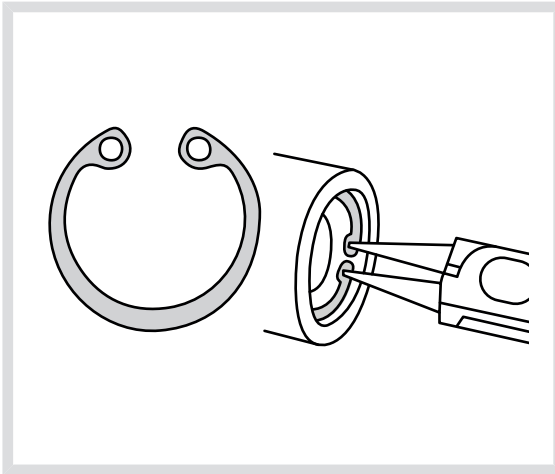
WARNING!

The circlip should be fully seated in its groove and turn freely. Never reuse a circlip that has already been used; always check before starting work that a new circlip is available.

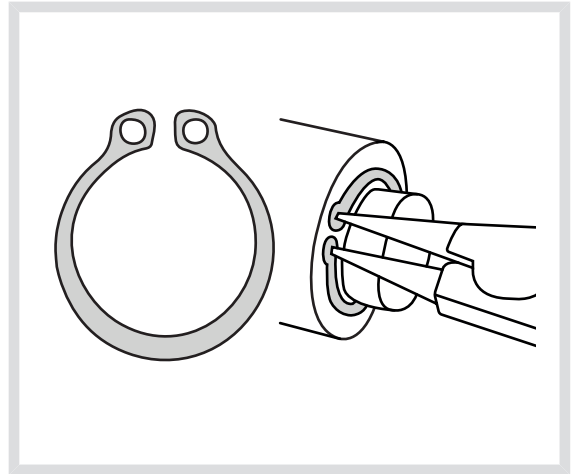
- This procedure acts as a reminder of this critical operation. It must be performed correctly to ensure that parts are assembled properly.

14.1 A few reminders

- A circlip (also known as a snap ring) is an open-ended ring installed by elastic deformation and used to hold elements in the correct axial position on a shaft (external circlip) or in a bore (internal circlip). It is used in various applications in general mechanical engineering and numerous industrial fields. **Items installed with circlips can be easily assembled and disassembled.**
- **There are two types of circlip: internal and external circlips.**



An internal circlip is used inside a bore. **Internal circlip pliers** decrease the diameter, enabling the circlip to be installed and removed.



An external circlip is used on a shaft or axle. **External circlip pliers** increase the diameter, enabling the circlip to be installed and removed.

14.2 Use

- **Example of a circlip used to assemble the spring arm on surgical lighting.**
- To fit the circlip on the shaft, open it with external circlip pliers, applying pressure via the two holes shown in the diagrams above in order to open the two branches.
- Slide the circlip axially along the shaft to the designated groove.
- Allow the circlip to close, i.e. elastically resume its initial shape (**a click should be heard**).

Note: The easiest way of positioning the circlip is to insert the open side into the groove on the shaft, and then push the rear of the circlip into the groove.

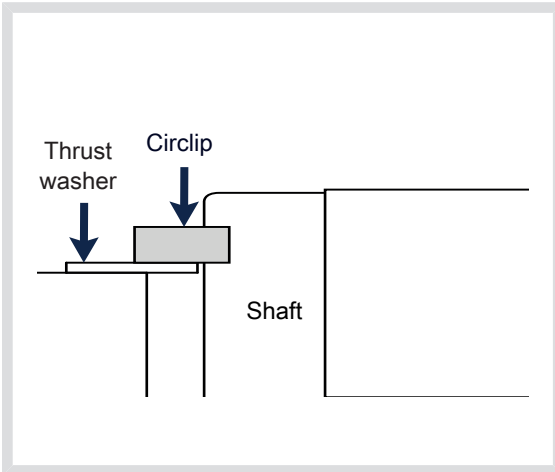
- Check that the circlip **rotates with no play**, in **both directions**.



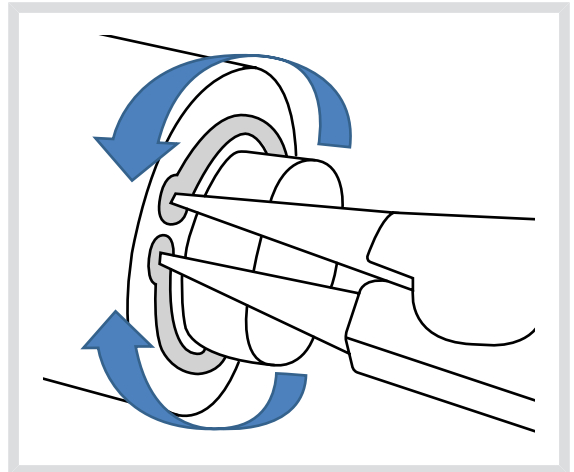
- Once the circlip is properly in place, apply RED VARNISTOP (Loctite 7400 – ARD606107400) on both holes in the circlip as a non-removal indicator.

NOTICE

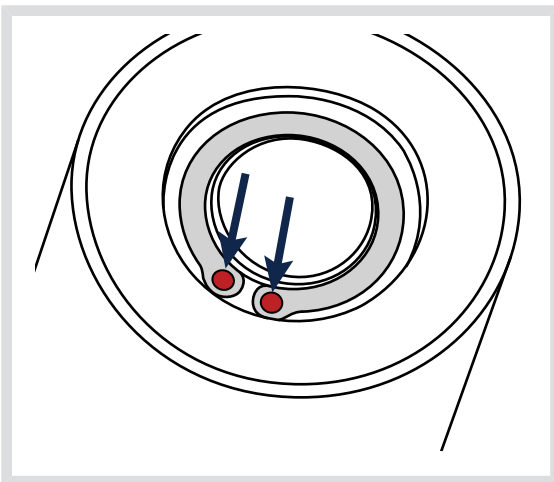
The circlip must be checked immediately after assembly.



- Check that the circlip has been installed properly.



- Check that it is correctly in place.
- Apply two drops of VARNISTOP.



14.3 Potential assembly problems

Problem	Action
Suitable pliers not available	- Do not assemble
Impossible to fit circlip on shaft	- Do not force
If the circlip does not fit in the groove properly (no click, circlip twisted, etc.)	- Stop assembly (check the circlip)
If the circlip rotates freely in the groove	- Remove the circlip - Install a new circlip - Dispose of the old circlip - If necessary, check the diameter of the groove

14.4 Part numbers for main circlips

Arm	Shaft	Circlip part number
Acrobat 2000 arm	32 mm shaft	Circlip ARD639411312
Ondaspace arm	40 mm shaft	Circlip ARD368130555

15 Maintenance kits

15.1 PowerLED 700 kits

Part number	Description	Qty
3 683 05 555	PWD underside kit	
6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	4
5 683 01 020	Outer underside	1
5 683 01 021	Central underside	1
3 683 01 555	PWD centre lens kit	
5 683 01 111	Centre lens module	1
6 005 30 325	M3×30 socket head cap screw, partially threaded, A2 stainless steel,	4
3 683 02 555	PWD centre LED module kit	
5 683 01 137	PP1 centre LED circuit	1
6 005 30 325	M3×30 socket head cap screw, partially threaded, A2 stainless steel	4
3 683 03 555	PWD peripheral LED module kit	
5 683 01 138	PP1 peripheral LED circuit	1
6 005 30 325	M3×30 socket head cap screw, partially threaded, A2 stainless steel	4
3 683 04 555	PWD peripheral lens kit	
5 683 01 113	NG peripheral lens module	1
6 005 30 325	M3×30 socket head cap screw, partially threaded, A2 stainless steel	4
3 683 06 555	PowerLED seal kit	
5 683 01 055	Centre cover/wing seal	1
5 683 01 024	Centre peripheral seal	1
5 683 01 023	Inner seal	1
5 683 01 022	Grip seal	1
3 683 07 555	PWD centre cover kit	
5 683 01 026	Centre shell	1
5 683 01 055	Centre cover/wing seal	1
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	3
3 683 35 998	PWD/HLD 700 silicone endo lighting kit	
5 683 70 061	PWD 700 silicone ambient module foam	1
5 683 70 600	PWD 700 silicone ambient module circuit	1
5 683 70 060	PWD 700 ambient module bezel	1
3 683 10 555	PWD dimmer keypad kit	
5 683 01 053	Fork control keypad	1
6 004 10 308	M3×8 socket head countersunk screw, stainless steel	2
5 683 01 064	Keypad protective film	1
3 683 99 555	PWD/HLD 300/500/700 control board kit	
6 005 20 308	M3×88 socket head cap screw, nickel-plated steel E27161	4
6 024 20 306	3 mm external tooth lock washer, stainless steel	4
6 951 00 532	M3-10 hexagonal M/F spacer	4
5 683 01 500	Control board	1
3 683 12 555	PWD cable kit	
5 683 01 074	Video cable with connectors	1
5 683 01 065	Peripheral cable 1	1
5 683 01 066	Peripheral cable 2	1
5 683 01 067	Peripheral cable 3	1
5 683 01 068	Peripheral cable 4	1
5 683 01 069	Centre LED circuit cable	1
5 683 50 504	PWD single fork video cable	
5 683 50 505	PWD double fork video cable	

Part number	Description	Qty
3 683 21 998	PWD 700/700 EVO peripheral cover kit with outer handle	
5 683 70 022	PWD 700 EVO shell, RAL 9016	1
5 683 01 056	Right outer cover seal	1
5 683 01 057	Left outer cover seal	1
5 683 70 011	PWD 700 one-piece handle, RAL 7011	1
6 009 90 114	EJOT screw	12
6 009 70 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
6 009 90 115	M3×6 countersunk head screw, stainless steel	4
5 683 01 096	M10×100 brake screw (L: 14 mm), lighthouse	
5 683 01 046	M10×100 brake screw (L: 20 mm), fork	
5 683 01 071	Three-track DF input cable for PWD	
5 683 01 073	Three-track SF input cable for PWD	
3 683 09 555	PowerLED head detection kit	
6 009 30 320	M3×20 slotted head screw, nylon	2
5 683 01 141	Sharp GP2YOD02YK sensor board + connector.	1
5 683 01 210	Shim for AIM sensor	1
3 683 32 555	PWD 700 snap ring retaining plate kit	
5 683 70 009	PWD 700 retaining plate	1
5 675 01 153	Underside sleeve spacer	2
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
5 683 01 073	PWD 700 lighthouse snap ring kit (5 units)	
5 683 01 028	Snap ring	5
3 683 39 998	SD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 683 01 525	SD video cable	1
3 683 38 998	HD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 677 05 509	HD video cable	1

15.2 PowerLED 700 Evolution kits

Part number	Description	Qty
3 683 36 555	PWD 700 EVO T3K peripheral LED module kit	
5 683 70 016	Evolution T3K peripheral board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 37 555	PWD/HLED 700 EVO T4K peripheral LED module kit	
5 683 70 018	HLED T4K peripheral LED board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 38 555	PWD 700 EVO T3K centre LED module kit	
5 683 70 017	Evolution T3K centre board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 39 555	PWD/HLED 700 EVO T4K centre LED module kit	
5 683 70 019	HLED T4K centre LED board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 40 555	PWD 700 EVO/HLED 700 EVO centre lens kit	
5 683 70 005	Centre lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 41 555	PWD 700/HLED 700 EVO peripheral lens kit	
5 683 70 056	Peripheral lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 32 555	PWD 700 snap ring retaining plate kit	
5 683 70 009	PWD 700 retaining plate	1
5 675 01 153	Underside sleeve spacer	2
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
3 683 05 555	PWD underside kit	
6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	4
5 683 01 020	Outer underside	1
5 683 01 021	Central underside	1
3 683 35 998	PWD/HLD 700 silicone endo lighting kit	
5 683 70 061	PWD 700 silicone ambient module foam	1
5 683 70 600	PWD 700 silicone ambient module circuit	1
5 683 70 060	PWD 700 ambient module bezel	1
3 683 12 555	PowerLED cable kit	
5 683 01 074	Video cable	1
5 683 01 065	Peripheral cable 1	1
5 683 01 066	Peripheral cable 2	1
5 683 01 067	Peripheral cable 3	1
5 683 01 068	Peripheral cable 4	1
5 683 01 069	Centre LED circuit cable	1
3 683 02 998	PWD/HLD 700 Standard SF fork S/A	
5 683 01 033	SF fork shaft	1
5 683 01 073	Three-track SF input cable	1
6 012 40 408	M4×8 cheese head screw, A2 stainless steel, ISO 14580	2
5 683 01 034	SF fork	1
6 009 70 525	M5×25 hexalobular socket cheese head screw, A2 stainless steel	3
5 683 01 131	SF shaft	1
6 009 70 545	M5×45 socket head cap screw, stainless steel	3
6 009 70 510	M5×10 hexalobular socket cheese head screw, A2 stainless steel	2

Part number	Description	Qty
3 683 06 998	PWD/HLD 700 Standard DF fork S/A	
5 683 01 131	SF shaft	1
5 683 01 071	Three-track SF input cable	1
6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
6 023 20 842	Z4 washer, A2 stainless steel E27611	2
5 678 01 102	Cam spring	2
5 683 01 034	SF fork	1
6 009 70 525	M5×25 hexalobular socket cheese head screw, A2 stainless steel	3
5 683 01 033	SF fork shaft	1
6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
6 009 70 510	M5×10 hexalobular socket cheese head screw, A2 stainless steel	2
3 683 09 555	PowerLED head detection kit	
6 009 30 320	M3×20 slotted head screw, nylon	2
5 683 01 141	Sharp GP2YOD02YK sensor board + connector.	1
5 683 01 210	Shim for AIM sensor	1
3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
5 683 01 028	Snap ring	5
3 683 07 555	PWD centre cover kit	
5 683 01 026	Centre shell	1
5 683 01 055	Centre cover/wing seal	1
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	3
3 683 06 555	PowerLED seal kit	
5 683 01 055	Centre cover/wing seal	1
5 683 01 024	Centre peripheral seal	1
5 683 01 023	Inner seal	1
5 683 01 022	Grip seal	1
3 683 21 998	PWD 700/700 EVO peripheral cover kit with outer handle	
5 683 70 022	PWD 700 EVO shell, RAL 9016	1
5 683 01 056	Right outer cover seal	1
5 683 01 057	Left outer cover seal	1
5 683 70 011	PWD 700 one-piece handle, RAL 7011	1
6 009 90 114	EJOT screw	12
6 009 70 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
6 009 90 115	M3×6 countersunk head screw, stainless steel	4
3 683 39 998	SD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 683 01 525	SD video cable	1
3 683 38 998	HD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 677 05 509	HD video cable	1

15.3 PowerLED Boost kits

Part number	Description	Qty
3 683 92 555	PWD/HLD 700 BOOST peripheral LED module kit	
5 683 70 510	BOOST 700 peripheral LED board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 93 555	PWD/HLD 700 BOOST centre LED module kit	
5 683 70 511	BOOST 700 centre LED board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 40 555	PWD700 EVO/HLED700 EVO central lens kit	
5 683 70 005	Centre lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 41 555	PWD700 EVO/HLED700 EVO central lens kit	
5 683 70 056	Peripheral lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	4
3 683 32 555	PWD 700 snap ring retaining plate kit	
5 683 70 009	PWD 700 retaining plate	1
5 675 01 153	Underside sleeve spacer	2
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
3 683 05 555	PWD underside kit	
6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	4
5 683 01 020	Outer underside	1
5 683 01 021	Central underside	1
3 683 35 998	PWD/HLD 700 silicone endo lighting kit	
5 683 70 061	PWD 700 silicone ambient module foam	1
5 683 70 600	PWD 700 silicone ambient module circuit	1
5 683 70 060	PWD 700 ambient module bezel	1
3 683 12 555	PowerLED cable kit	
5 683 01 074	Video cable	1
5 683 01 065	Peripheral cable 1	1
5 683 01 066	Peripheral cable 2	1
5 683 01 067	Peripheral cable 3	1
5 683 01 068	Peripheral cable 4	1
5 683 01 069	Centre LED circuit cable	1
3 683 02 998	PWD/HLD 700 Standard SF fork S/A	
5 683 01 033	SF fork shaft	1
5 683 01 073	Three-track SF input cable	1
6 012 40 408	M4×8 cheese head screw, A2 stainless steel, ISO 14580	2
5 683 01 034	SF fork	1
6 009 70 525	M5×25 hexalobular socket cheese head screw, A2 stainless steel	3
5 683 01 131	SF shaft	1
6 009 70 545	M5×45 socket head cap screw, stainless steel	3
6 009 70 510	M5×10 hexalobular socket cheese head screw, A2 stainless steel	2
3 683 06 998	PWD/HLD 700 Standard DF fork S/A	
5 683 01 131	SF shaft	1
5 683 01 071	Three-track SF input cable	1
6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
6 023 20 842	Z4 washer, A2 stainless steel E27611	2
5 678 01 102	Cam spring	2
5 683 01 034	SF fork	1
6 009 70 525	M5×25 hexalobular socket cheese head screw, A2 stainless steel	3
5 683 01 033	SF fork shaft	1
6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
6 009 70 510	M5×10 hexalobular socket cheese head screw, A2 stainless steel	2

Part number	Description	Qty
3 683 09 555	PowerLED head detection kit	
6 009 30 320	M3×20 slotted head screw, nylon	2
5 683 01 141	Sharp GP2YOD02YK sensor board + connector.	1
5 683 01 210	Shim for AIM sensor	1
3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
5 683 01 028	Snap ring	5
3 683 07 555	PWD centre cover kit	
5 683 01 026	Centre shell	1
5 683 01 055	Centre cover/wing seal	1
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	3
3 683 06 555	PowerLED seal kit	
5 683 01 055	Centre cover/wing seal	1
5 683 01 024	Centre peripheral seal	1
5 683 01 023	Inner seal	1
5 683 01 022	Grip seal	1
3 683 21 998	PWD 700/700 EVO peripheral cover kit with outer handle	
5 683 70 022	PWD 700 EVO shell, RAL 9016	1
5 683 01 056	Right outer cover seal	1
5 683 01 057	Left outer cover seal	1
5 683 70 011	PWD 700 one-piece handle, RAL 7011	1
6 009 90 114	EJOT screw	12
6 009 70 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
6 009 90 115	M3×6 countersunk head screw, stainless steel	4
3 683 39 998	SD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 683 01 525	SD video cable	1
3 683 38 998	HD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 677 05 509	HD video cable	1

15.4 PowerLED 500 Evolution kits

Part number	Description	Qty
3 683 09 998	PWD 500 ambient LED module kit	
6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	4
5 683 50 122	RAL 7035 ambient module	1
6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	4
5 683 50 521	PWD 500 ambient LED cable	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 23 555	PWD 500 lens kit	
5 683 50 042	Lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 24 555	PWD 500 seal kit	
5 683 50 041	RAL 7035 beam seal	1
5 683 50 116	RAL 7035 peripheral seal (Type 6)	1
3 683 25 555	PWD 500 underside kit	
5 683 50 046	PWD 500 thermoformed underside	1
6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	6
6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	6
3 683 34 555	PWD 500 EVO T3K LED module kit	
5 683 50 518	500 N F3 T3K board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 35 555	PWD/HLED 500 EVO T4K LED module kit	
5 683 50 517	500 N E2 T4K board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 27 555	PWD 500 lighthouse snap ring kit	
5 683 50 044	Snap ring	5
3 683 28 555	PWD 500 snap ring retaining plate kit	
5 683 50 059	PWD 500 retaining plate	1
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
5 675 01 153	Underside sleeve spacer	2
5 683 50 502	PWD 500 kit: four LED cables	
3 683 30 998	PWD 500 cover kit with outer handle	
5 683 50 034	RAL 9016 painted shell	1
5 683 50 041	RAL 7035 beam seal	1
5 683 50 081	One-piece painted circular handle	1
6 009 90 114	EJOT Delta PT plastic screw, WN 1451 50-12	12
6 029 90 005	M5 serrated washer, A2 stainless steel, NFE 25-511	12

Part number	Description	Qty
3 683 39 998	SD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 683 01 525	SD video cable	1
3 683 38 998	HD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 677 05 509	HD video cable	1

15.5 PowerLED 500 Boost kits

Part number	Description	Qty
3 683 09 998	PWD 500 ambient LED module kit	
6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	4
5 683 50 122	RAL 7035 ambient module	1
6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	4
5 683 50 521	PWD 500 ambient LED cable	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 23 555	PWD 500 lens kit	
5 683 50 042	Lens module	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 24 555	PWD 500 seal kit	
5 683 50 041	RAL 7035 beam seal	1
5 683 50 116	RAL 7035 peripheral seal (Type 6)	1
3 683 25 555	PWD 500 underside kit	
5 683 50 046	PWD 500 thermoformed underside	1
6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	6
6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	6
3 683 94 555	PWD/HLD 500 BOOST LED module kit	
5 683 50 522	BOOST 500 LED board	1
6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
3 683 27 555	PWD 500 lighthouse snap ring kit	
5 683 50 044	Snap ring	5
3 683 28 555	PWD 500 snap ring retaining plate kit	
5 683 50 059	PWD 500 retaining plate	1
6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
5 675 01 153	Underside sleeve spacer	2
5 683 50 502	PWD 500 kit: four LED cables	
3 683 30 998	PWD 500 cover kit with outer handle	
5 683 50 034	RAL 9016 painted shell	1
5 683 50 041	RAL 7035 beam seal	1
5 683 50 081	One-piece painted circular handle	1
6 009 90 114	EJOT Delta PT plastic screw, WN 1451 50-12	12
6 029 90 005	M5 serrated washer, A2 stainless steel, NFE 25-511	12
3 683 39 998	SD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 683 01 525	SD video cable	1
3 683 38 998	HD lighthouse Quick Lock upgrade kit	
5 677 07 016	Locking interface	1
5 677 07 017	Lock shaft	1
6 398 00 341	TRUARC ring, diam. 3.2 mm, DIN 6799	1
6 004 10 420	M4×20 screw, A2 stainless steel, DIN 7991	3
6 325 00 452	CP OLMA spring, stainless steel	1
5 677 07 008	Connector mount	1
6 009 30 306	M3×6 thread-forming Torx screw, steel	2
5 677 05 509	HD video cable	1

15.6 PowerLED 700/500 Evolution kits

Référence	Désignation	Qté
3 683 99 555	Kit carte pilote PWD/HLD 300/500/700 HD	
6 009 50 308	Vis cylindrique tête basse 6 lobes M3x8 Inox	4
6 951 00 532	Entretoise hexagonale MF M3 LG10	4
5 683 01 500	Carte pilote	1
3 683 29 555	Kit clavier gradateur arceau PWD700/500/300	
5 683 01 053	Clavier de commande arceau	1
6 009 90 115	Vis tête fraisée M3x6 Inox A2 ISO 14581	2
5 683 01 064	Film protection clavier	1
5 683 50 504	Câble simple arceau vidéo PWD	
5 683 50 505	Câble double arceau vidéo PWD	
5 683 01 096	Frein M10X100 lg 14 MM coupole	
5 683 01 046	Frein M10X100 lg 20 MM coupole	
3 683 31 555	Kit PWD film de protection clavier arceau	
5 683 01 064	Film protection clavier	10
3 683 48 555	Kit capuchons arceau PWD753 gris 3 pièces	
5 683 01 064	Bouchon de tube d'arceau	3

15.7 PowerLED 700/500 Boost kits

Référence	Désignation	Qté
3 683 99 555	Kit carte pilote PWD/HLD 300/500/700 BOOST	
6 009 50 308	Vis cylindrique tête basse 6 lobes M3x8 Inox	4
6 951 00 342	Entretoise hexagonale M/F Inox M3 LG10H5,5	4
5 683 01 500	Carte pilote ROHS AXONE PWD300-500-700	1
3 683 01 556	Kit Lexan arceau PWD700/500/300	
5 683 10 915	Lexan de commande arceau	1
6 009 90 115	Vis tête fraisée M3x6 Inox A2 ISO 14581	2
5 683 01 164	Film protection lexan	1
5 683 50 504	Câble simple arceau vidéo PWD	
5 683 50 505	Câble double arceau vidéo PWD	
5 683 01 096	Frein M10X100 lg 14 MM coupole	
5 683 01 046	Frein M10X100 lg 20 MM coupole	
3 683 31 555	Kit PWD film de protection clavier arceau	
5 683 01 064	Film protection clavier	10
3 683 48 555	Kit capuchons arceau PWD753 gris 3 pièces	
5 683 01 064	Bouchon de tube d'arceau	3

15.8 PowerLED 300 kits

Référence	Désignation	Qté
3 683 07 998	Kit secteur d'ambiance PWD 300	
5 683 30 209	S/E Secteur ambiance PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	3
3 683 27 555	Kit segments d'arrêt coupole PWD 500/300	
5 683 50 044	Segment d'arrêt	5
3 683 50 555	Kit lentilles K3 K4 périphériques PWD300	
5 683 30 087	Secteur lentilles extérieur usiné - PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	1
3 683 51 555	Kit lentilles K3 K4 centrales PWD300	
5 683 30 081	Secteur lentilles central usiné - PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	3
3 683 52 555	Kit module LEDs périphérique PWD300 K3	
	Carte LEDs périphérique W HD PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	1
3 683 53 555	Kit module LEDs central PWD300 K3	
	Carte LEDs centrale HD PWD 300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	3
3 683 54 555	Kit module LEDs périphérique PWD300 K4	
	Carte LEDs périphérique W HD PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	3
3 683 55 555	Kit module LEDs central PWD300 K4	
	Carte LEDs centrale HD PWD 300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 Inox	3
3 683 56 555	Kit joints PWD300	
5 683 30 041	Joint de poutre RAL 7035 - PWD 300	1
5 683 30 082	Joint extérieur T2 RAL 7035 - PWD 300	1
3 683 58 555	Kit sous-face PWD300	
5 683 30 060	Sous-face usinée PWD300	1
6 009 50 308	Vis cylindrique tête basse 6 lobes M3x8 inox	1
3 683 18 998	Kit capot PWD300 avec joint de poutre	
5 683 30 117	Coque - RAL 9016 - PWD 300	1
5 683 30 041	Joint de poutre RAL 7035 - PWD 300	1
3 683 37 998	Kit PWD300 - Capot Supérieur Aliminium	
5 683 30 119	Coque aliminium PWD300	1
5 683 30 041	Joint de poutre RAL 7035	1
5 683 30 118	Autocollant	1
3 683 60 555	Kit PWD300 câbles	
5 683 50 502	Kit de 4 câbles LEDs pilote PWD300	1
5 683 30 502	Câble secteur central - PWD300	1
3 683 61 555	Kit plaque de maintien segment d'arrêt PWD300	
5 683 30 059	Plaque maintien segment PWD 300	1
6 009 90 106	Vis ULF M3x8 inox A2	2
5 675 01 153	Entretoise sous-face manche	2

Référence	Désignation	Qté
3 683 62 555	Kit poignée PWD 300	
3 672 03 972	Poignée stérilisable allégée	1
6 012 43 010	Vis EJOT - Delta PT - Torx - WN1452-30-10 - Inox	3
5 675 01 256	Rondelle de frottement	2
5 672 02 281	Manche int-Z	1
5 672 02 511	Manche orange (n° série à partir de 50 000)	1
5 675 01 204	Rondelle fourreau	1
5 675 01 205	Interface manche caméra	3
5 675 01 206	Vis captive	
3 683 63 555	Kit cache poignée	
5 683 30 057	Cache RAL 7035 - PWD 300	1
5 675 01 206	Vis captive	3
5 683 30 541	Kit Alimentation BPS 10-20-10P-20P	
5 683 30 543	Kit câbles 24V BPS 10P-20P	
5 683 30 542	Kit câbles 24V BPS 10	
3 683 73 555	Kit capot BPS mural	
5 683 30 113	Capot boîtier mural - PWD300	1
6 009 90 076	Vis ULF M5x8 INOX A2E27128	2
3 683 99 555	Kit carte pilote PWD/HLD 300/500/700 HD	
6 009 50 308	Vis tête extrêmement basse 6 lobes M3x8 Inox	4
5 683 01 500	Carte pilote PWD 300-500-700	1
6 951 00 532	Entretoise hexagonale MF M3 LG10	4

15.9 PowerLED 300 Boost kits

Référence	Désignation	Qté
3 683 07 998	Kit endo LED PWD 300	
5 683 30 209	S/E Secteur ambiance RAL7035 PWD300	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x25 inox A2	3
3 683 27 555	Kit segments d'arrêt coupole PWD 500/300	
5 683 50 044	Segment d'arrêt	10
3 683 97 555	Kit lentilles périphériques PWD/HLD300 BOOST	
5 683 30 089	Secteur lentilles périphériques	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	1
3 683 98 555	Kit lentilles centrales PWD/HLD300 BOOST	
5 683 30 089	Secteur lentilles centrales	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	3
3 683 95 555	Kit module LEDs périphérique PWD/HLD 300 BOOST	
5 683 30 530	Carte LEDs périphérique PWD300 BOOST NICHIA	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	1
3 683 06 556	Kit module LEDs périphérique PWD/HLD 300 BOOST SN > 30 000	
5 683 30 550	Carte LEDs périphérique PWD300 NICHIA	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	3
3 683 96 555	Kit module LEDs central PWD/HLD 300 BOOST	
5 683 30 530	Carte LEDs centrale PWD300 BOOST NICHIA	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	3
3 683 07 556	Kit module LEDs central PWD/HLD 300 BOOST SN > 30 000	
5 683 30 551	Carte LEDs central PWD300 NICHIA	1
6 009 70 325	Vis cylindrique tête basse 6 lobes M3x8 inox	3
3 683 56 555	Kit joints PWD300	
5 683 30 041	Joint de poutre RAL 7035 - PWD 300	1
5 683 30 082	Joint extérieur T2 RAL 7035 - PWD 300	1
3 683 58 555	Kit sous-face PWD300	
5 683 30 060	Sous-face usinée PWD300	1
6 009 50 308	Vis cylindrique tête basse 6 lobes M3x8 inox	1
3 683 18 998	Kit capot PWD300 avec joint de poutre	
5 683 30 117	Coque - RAL 9016 - PWD 300	1
5 683 30 041	Joint de poutre RAL 7035 - PWD 300	1
3 683 37 998	Kit PWD300 - Capot Supérieur Aliminium	
5 683 30 119	Coque aliminium PWD300	1
5 683 30 041	Joint de poutre RAL 7035	1
5 683 30 118	Autocollant	1
3 683 60 555	Kit PWD300 câbles	
5 683 50 502	Kit de 4 câbles LEDs pilote PWD300	1
5 683 30 502	Câble secteur central - PWD300	1
3 683 61 555	Kit plaque de maintien segment d'arrêt PWD300	
5 683 30 059	Plaque maintien segment PWD 300	1
6 009 90 106	Vis ULF M3x8 inox A2	2
5 675 01 153	Entretoise sous-face manche	2

Référence	Désignation	Qté
3 683 62 555	Kit poignée PWD 300	
3 672 03 972	Poignée stérilisable allégée	1
6 012 43 010	Vis EJOT - Delta PT - Torx - WN1452-30-10 - Inox	3
5 675 01 256	Rondelle de frottement	2
5 672 02 281	Manche int-Z	1
5 672 02 511	Manche orange (n° série à partir de 50 000)	1
5 675 01 204	Rondelle fourreau	1
5 675 01 205	Interface manche caméra	1
5 675 01 206	Vis captive	3
3 683 63 555	Kit cache poignée	
5 683 30 057	Cache RAL 7035 - PWD 300	1
5 675 01 206	Vis captive	3
5 683 30 541	Kit Alimentation BPS 10-20-10P-20P	
5 683 30 543	Kit câbles 24V BPS 10P-20P	
5 683 30 542	Kit câbles 24V BPS 10	
3 683 73 555	Kit capot BPS mural	
5 683 30 113	Capot boîtier mural - PWD300	1
6 009 90 076	Vis ULF M5x8 INOX A2E27128	2

15.10 PowerLED 700 kits

Référence	Désignation	Qté
3 683 29 555	Kit clavier gradateur arceau PWD700/500/300	
5 683 01 053	Clavier de commande arceau	1
6 009 90 115	Vis tête fraisée M3x6 Inox A2 ISO 14581	2
5 683 01 064	Film protection clavier	1
5 683 01 046	Frein M10X100 lg, 20 MM arceau 700/500/300	
5 683 01 071	Câble entrée DF 3 pistes PWD 700/500/300	
5 683 01 073	Câble entrée SF 3 pistes PWD 700/500/300	
3 683 65 555	Kit fusibles PWD/HLD753 WPSXX 40 pièces 700/500/300	
6 936 00 053	Fusibles 4AT 250V pour carte pilote	10
6 936 00 052	Fusibles 20A 250V 6,3x32 pour carte bypass et module CP	10
6 936 00 051	Fusibles 15A 250V 6,3x32 pour carte pilote	10
6 936 00 060	Fusibles 8AT 250V 6,3x32 pour carte filtre	10

15.11 PowerLED 700/500/300 Boost kits

Référence	Désignation	Qté
3 683 01 556	Kit Lexan arceau PWD/HLD BOOST	
5 683 10 915	Lexan de commande arceau	1
6 009 90 115	Vis tête fraisée M3x6 Inox A2 ISO 14581	2
5 683 01 164	Film protection lexan	1
5 683 01 046	Frein M10X100 lg, 20 MM arceau 700/500/300	
5 683 01 071	Câble entrée DF 3 pistes PWD 700/500/300	
5 683 01 073	Câble entrée SF 3 pistes PWD 700/500/300	
3 683 65 555	Kit fusibles PWD/HLD753 WPSXX 40 pièces 700/500/300	
6 936 00 053	Fusibles 4AT 250V pour carte pilote	10
6 936 00 052	Fusibles 20A 250V 6,3x32 pour carte bypass et module CP	10
6 936 00 051	Fusibles 15A 250V 6,3x32 pour carte pilote	10
6 936 00 060	Fusibles 8AT 250V 6,3x32 pour carte filtre	10

15.12 Kits specific to PWD 500/700 HD lighthheads

Référence	Désignation	Qté
5 677 05 113	Câble vidéo HD bras exten-balais	1
5 677 05 114	Câble vidéo HD Rotor	1
5 677 05 117	Câble PWD SF vidéo 9P	1
5 677 02 904	Caméra zoom HD ORCHIDE	1
3 683 99 555	Kit carte pilote PWD/HLD 300/500/700 HD	
6 009 50 308	Vis cylindrique tête basse 6 lobes M3X8 Inox	1
6 951 00 532	Entretoise hexagonale MF M3 Lg10mm	4
5 683 01 500	Carte pilote PWD 700-500-300	1
3 683 88 555	Kit câbles HD arceau DF + coupole V2	
5 677 05 122	Câble vidéo caméra HD	1
5 677 05 121	Câble PWD DF vidéo 9P	1

15.13 Kits specific to PWD 500/700 HD Boost lighthoods

Référence	Désignation	Qté
5 677 05 113	Câble vidéo HD bras exten-balais	1
5 677 05 114	Câble vidéo HD Rotor	1
5 677 05 117	Câble PWD SF vidéo 9P	1
5 677 02 904	Caméra zoom HD ORCHIDE	1
3 683 99 555	Kit carte pilote PWD/HLD 300/500/700/AX	
6 009 50 308	Vis cylindrique tête basse 6 lobes M3X8 Inox	4
6 951 00 532	Entretoise hexagonale M/F Inox M3 L10H5,5	4
5 683 70 046	Carte pilote ROHS AXONE PWD 700-500-300	1
3 683 88 555	Kit câbles HD arceau DF + coupole V2	
5 677 05 122	Câble vidéo caméra HD	1
5 677 05 121	Câble PWD DF vidéo 9P	1
3 683 89 555	Kit câbles HD arceau SF + coupole V2	
5 677 05 133	Câble HD arceau SF V2	1
5 677 05 122	Câble coupole vidéo HD	1

15.14 WPS kit

Référence	Désignation	Qté
5 683 02 001	Transformateur torique WPS PWD/HLD	
5 683 02 002	Carte filtre + pont redresseur WPS PWD/HLD	
5 683 02 022	Carte puissance WPS10 PWD/HLD	
5 683 02 023	Carte puissance WPS20 PWD/HLD	
5 683 01 900	Module plafonnier PWD/HLD	
5 683 01 901	Module plafonnier PWD/HLED (V.CP WPS US)	
5 683 02 036	Clavier deporté PWD/HLD	
5 683 70 039	Carte chargeur WPS580 PWD/HLD	
5 683 02 024	Carte secours simple WPS12 PWD/HLD	
5 683 02 025	Carte secours double WPS22 PWD/HLD	
5 683 02 037	Carte bypass PWD/HLED	
3 683 65 555	Kit fusibles PWD/HLD753 WPSXX 40 pièces 700/500/300	
6 936 00 053	Fusibles 4AT 250V pour carte pilote	10
6 936 00 052	Fusibles 20A 250V 6,3x32 pour carte bypass et module CP	10
6 936 00 051	Fusibles 15A 250V 6,3x32 pour carte pilote	10
6 936 00 060	Fusibles 8AT 250V 6,3x32 pour carte filtre	10

15.15 WPS Boost kit

Référence	Désignation	Qté
5 683 02 001	Transformateur torique WPS PWD/HLD	
5 683 02 002	Carte filtre + pont redresseur WPS PWD/HLD	
5 683 02 022	Carte puissance WPS10 PWD/HLD	
5 683 02 023	Carte puissance WPS20 PWD/HLD	
5 683 01 900	Module plafonnier PWD/HLD	
5 683 01 901	Module plafonnier PWD/HLED (V.CP WPS US)	
5 683 02 064	Clavier deporté PWD/HLD	
5 683 70 039	Carte chargeur WPS580 PWD/HLD	
5 683 02 024	Carte secours simple WPS12 PWD/HLD	
5 683 02 025	Carte secours double WPS22 PWD/HLD	
5 683 02 037	Carte bypass PWD/HLED	
3 683 65 555	Kit fusibles PWD/HLD753 WPSXX 40 pièces 700/500/300	
6 936 00 053	Fusibles 4AT 250V pour carte pilote	10
6 936 00 052	Fusibles 20A 250V 6,3x32 pour carte bypass et module CP	10
6 936 00 051	Fusibles 15A 250V 6,3x32 pour carte pilote	10
6 936 00 060	Fusibles 8AT 250V 6,3x32 pour carte filtre	10

15.16 S suspension kit

Part number	Description	Qty
3 675 23 555	Ceiling cover kit	
	Cover	1
	S suspension cover retaining flange	1
	M5×16 set screw, flat end	2
3 675 24 555	Suspension tube screw kit	
	M5×12 socket head countersunk screw	12
3 675 25 555	Double suspension ceiling cover kit	
	Double S suspension bottom cover	2
	Countersunk Posidriv screw, ISO 7046	2
3 675 26 555	Wall mounting kit	
	Wall bracket cover	1
	Wall bracket cover, section 2	1
3 675 20 555	Extension arm kit	
	Two-piece cover	2
	S suspension circlip washer	2
	Circlip for 32 mm shaft	2

15.17 SA suspension kit

Part number	Description	Qty
3 683 84 555	HD video cable kit (1600 mm)	
	Spring contact mounting plate	1
	SA arm cable <1600 9P	1
	M5×10 shouldered socket head Eco-fix screw, zinc-plated steel	1
	M4×25 socket head cap screw, A2 stainless steel	2
	Z4 washer, A2 stainless steel E27611	2
	Cam spring	2
3 683 85 555	Three-track cable kit (1600 mm)	
	Contact mounting plate	1
	SA arm cable <1600 3P	1
	M5×10 shouldered socket head Eco-fix screw, zinc-plated steel	1
	M4×6 socket head cap screw, A2 stainless steel, DIN 912	2
3 978 03 555	Slip ring kit	
	Suspension arm slip ring	1
	DEF 4NF E 27-627 washer	1
	M4×10 countersunk head screw, stainless steel	1
3 978 05 555	Half slip ring kit	
	Suspension arm half slip ring	1
	DEF 4NF E 27-627 washer	1
	M4×10 countersunk head screw, stainless steel	1
5 679 14 999	Adapter kit	
	Adapter for fastening on Hanau tube	1
	M6×20 low-profile socket head cap screw, nickel-plated steel	6
	M6×12 low-profile socket head cap screw, nickel-plated steel	6
3 978 02 555	SA suspension arm brake screw kit (5 screws)	
	M12×100 brake screw (L: 28 mm)	5
3 150 02 555	Brake screw kit	
	M12×100 brake screw (L: 24 mm)	3
	M12×100 brake screw (L: 13 mm)	2
3 150 07 555	Brake screw kit	
	M12×100 brake screw (L: 24 mm)	3
	M12×100 brake screw (L: 17 mm)	2
3 670 14 555	Kit of pre-glued M6×12 socket head cap screws	
	M6×12 socket head cap screw, pre-glued	6
3 672 70 555	Kit of pre-glued M6×20 socket head cap screws	
	M6×20 socket head cap screw, pre-glued, class 10.9	6
3 978 08 555	Kit of 12 pre-glued socket head cap screws and socket head countersunk screws	
	M6×20 socket head cap screw, pre-glued	6
	M6×16 socket head countersunk screw, pre-glued	6
3 683 25 556	Kit of pre-glued M6×8 socket head countersunk screws	
	M6×8 socket head countersunk screw, pre-glued	4

15.18 Satellite suspension kit

Part number	Description	Qty
3 150 27 555	Kit of pre-glued M6×20 low-profile socket head cap screws M6×20 low-profile socket head cap screw, pre-glued	6
3 150 26 555	Kit of pre-glued M6×25 socket head cap screws for shafts 2 and 3 M6×25 socket head cap screw, pre-glued	6
3 150 28 555	Kit of four screws for OSP end cap M6×14 socket head cap screw M6×10 socket head cap screw	2 2

15.19 Spare parts and consumables

15.19.1 PowerLED 700

Part number	Description	Qty
3 683 02 555	PWD 700 centre LED module	1
3 683 03 555	PWD 700 peripheral LED module	1
3 683 21 555	PWD 500 LED module kit	1
3 692 01 900	Set of five sterilisable handles	1
5 672 03 901	Sterilisable handle for zoom lens video camera	1
3 672 03 975	Pack of five sterilisable handles, CFF camera	1
6 062 01 001	ECL Net antistatic cleaner (1 litre)	1
6 062 01 002	ECL Net 500 ml spray	1

15.19.2 PowerLED 700 Evolution

Part number	Description	Qty
3 683 36 555	PWD 700 Evolution T3K peripheral LED module kit	1
3 683 37 555	PWD/HLD 700 Evolution T4K peripheral LED module kit	1
3 683 38 555	PWD 700 Evolution T3K centre LED module kit	1
3 683 39 555	PWD/HLD 700 Evolution T4K centre LED module kit	1
3 692 01 900	Set of five sterilisable handles	1
5 672 03 901	Sterilisable handle for zoom lens video camera	1
3 672 03 975	Pack of five sterilisable handles, CFF camera	1
6 062 01 001	ECL Net antistatic cleaner (1 litre)	1
6 062 01 002	ECL Net 500 ml spray	1

15.19.3 PowerLED 500

Part number	Description	Qty
3 683 34 555	PWD 500 Evolution T3K LED module kit	1
3 683 35 555	PWD/HLD 500 Evolution T4K LED module kit	1
3 692 01 900	Set of five sterilisable handles	1
5 672 03 901	Sterilisable handle for zoom lens video camera	1
3 672 03 975	Pack of five sterilisable handles, CFF camera	1
6 062 01 001	ECL Net antistatic cleaner (1 litre)	1
6 062 01 002	ECL Net 500 ml spray	1

15.19.4 PowerLED 300

Part number	Description	Qty
3 683 52 555	PWD 300 K3 peripheral LED module kit	1
3 683 53 555	PWD 300 K3 centre LED module kit	1
3 692 01 900	Set of five sterilisable handles	1
6 062 01 001	ECL Net antistatic cleaner (1 litre)	1
6 062 01 002	ECL Net 500 ml spray	1

15.19.5 POWERLED Boost (700/500/300)

Part number	Description	Qty
3 683 92 555	PWD/HLD 700 BOOST peripheral LED module kit	1
3 683 93 555	PWD/HLD 700 BOOST centre LED module kit	1
3 692 01 900	Set of five sterilisable handles	1
5 672 03 901	Sterilisable handle for zoom lens video camera	1
3 672 03 975	Pack of five sterilisable handles, CFF camera	1
6 062 01 001	ECL Net antistatic cleaner (1 litre)	1
6 062 01 002	ECL Net 500 ml spray	1
3 683 95 555	PWD/HLD 300 Boost peripheral LED module kit	
3 683 06 556	PWD/HLD 300 Boost peripheral LED module kit, SN > 30,000	
3 683 96 555	PWD/HLD 300 Boost centre LED module kit	
3 683 07 556	PWD/HLD 300 Boost centre LED module kit, SN > 30,000	
3 683 94 555	PWD/HLD 500 Boost LED module kit	

15.20 Maintenance tools (OPM)

Description	Quantity	Part number
OPM 039 Luxmeter	1	5 720 34 999
OPM 059 Multimeter M 54 RMS	1	5 720 59 999
Diagnostic case	1	5 720 81 999
OPM 060 Anti-static wrist strap	1	5 720 64 999

16 Diagrams and parts lists

Note: spare parts are highlighted in bold.

16.1 S Suspension

PARTS LIST 1

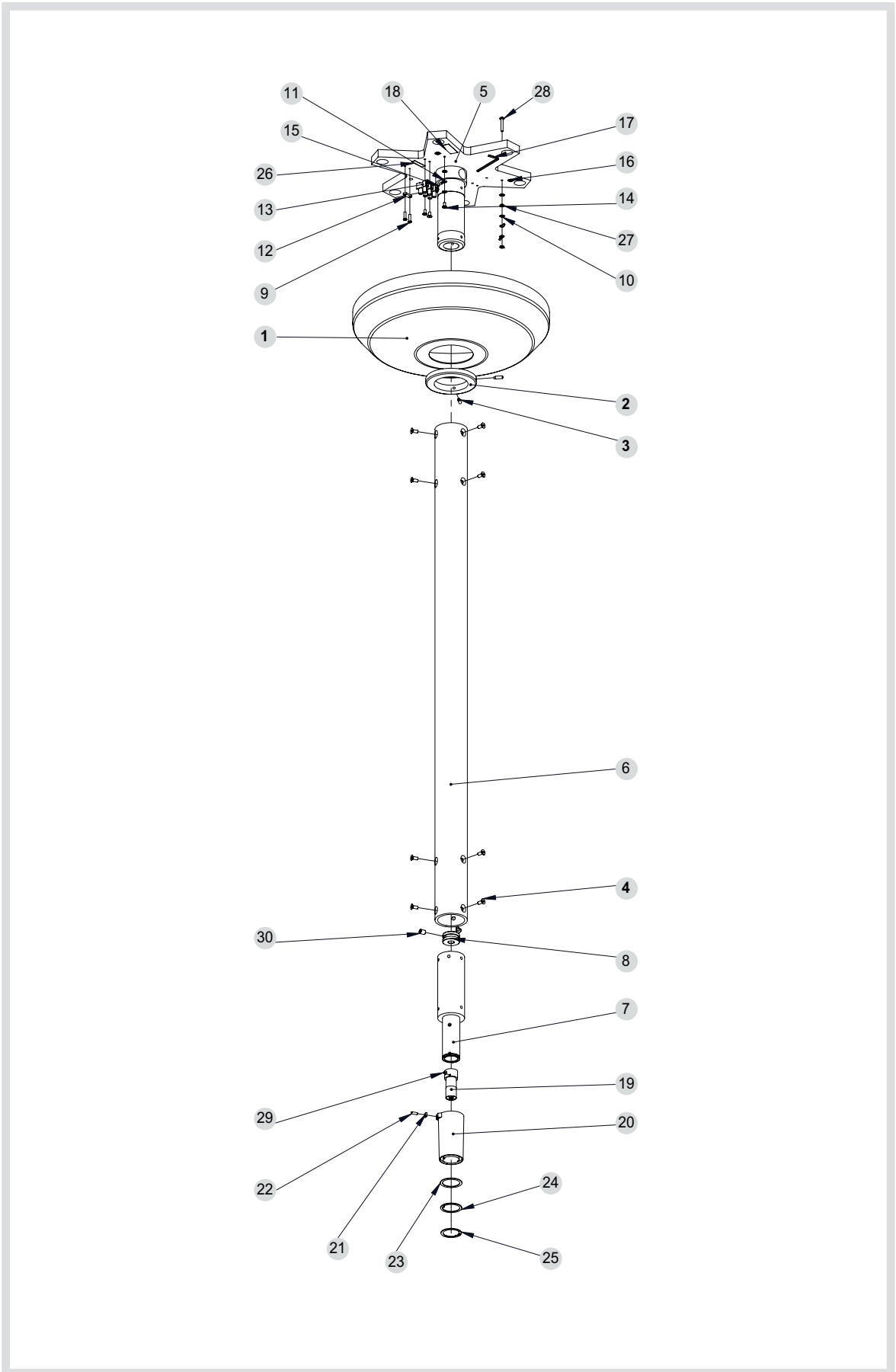
SINGLE S CEILING-MOUNTED SUSPENSION

5 675 01 282

Ref.	Part number	Description	Qty
	3 675 23 555	Ceiling cover kit	
1		Cover	1
2		S suspension cover retaining flange	1
3		M5×16 set screw, flat end	2
4	3 675 24 555	Suspension tube screw kit	
		M5×12 socket head countersunk screw	12
5		Ceiling flange	1
6		S suspension tube	1
7		End piece for single S suspension	1
8		Cable grommet	1
9		Connecting block	1
10		M4 external tooth lock washer, stainless steel	4
11		JST 4 mm ring terminal	3
12		Cable clamp	1
13		M3×14 CBL Z screw	2
14		M3×11 CBL Z screw	3
15		Cable	1
16		Earth label	2
17		Wrench 82 3	1
18		Product code label	1
19		Ondal three-track female rotating contact	1
20		End cap	1
21		M4 square nut	1
22		M4×12 set screw	1
23		Thick circlip washer	1
24		Tab washer	1
25		Circlip for 32 mm shaft	1
26		Connecting block label	1
27		M4 hex nut	2
28		M4×28 CBL Z screw	1
29		M3×8 countersunk screw	1
30		Cable grommet screws	1

DIAGRAM 1

SINGLE S CEILING-MOUNTED SUSPENSION



PARTS LIST 2

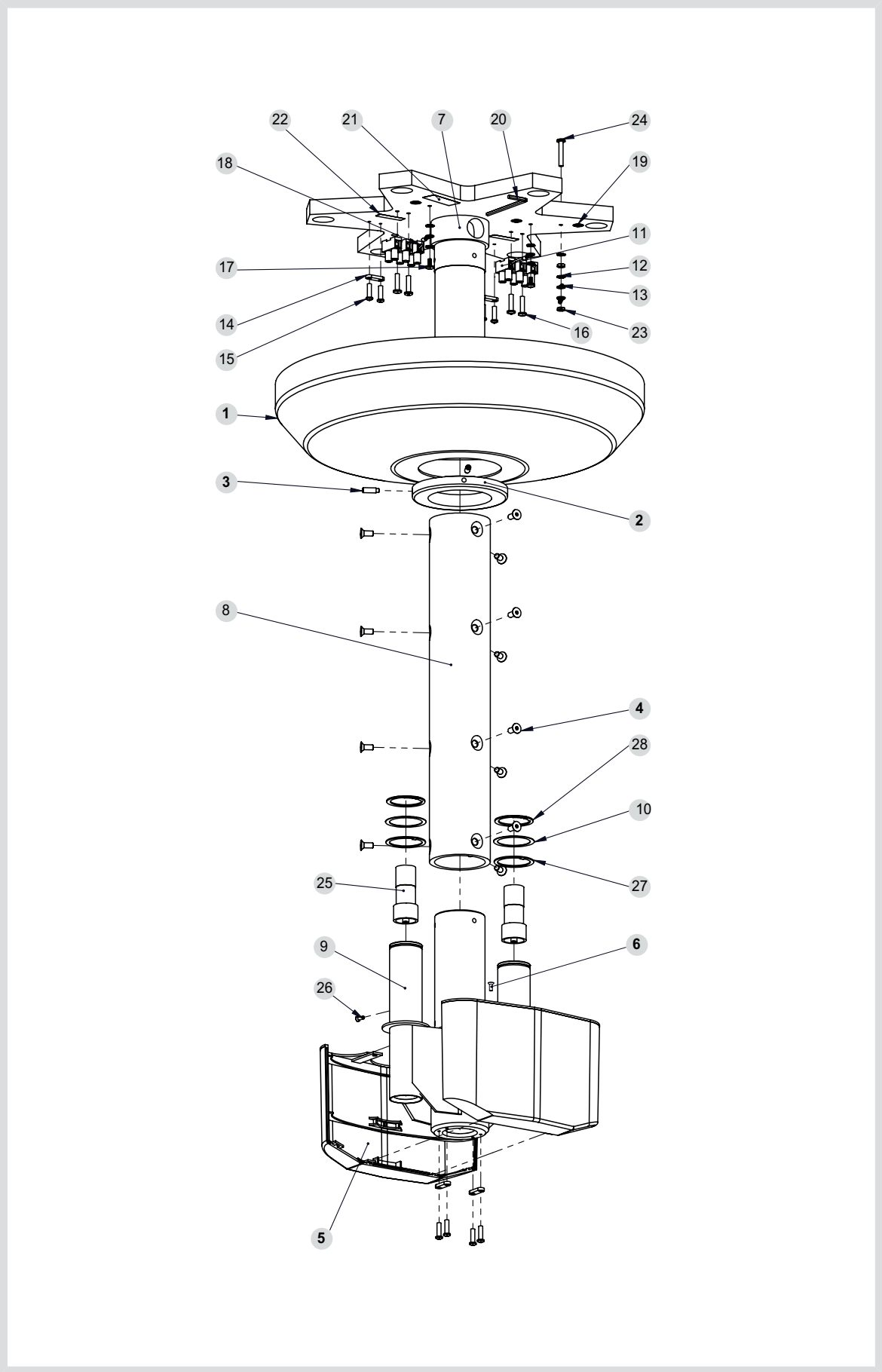
DOUBLE S SUSPENSION FOR CEILING-MOUNTED SURGICAL LIGHT

5 675 01 281

Ref.	Part number	Description	Qty
	3 675 23 555	Ceiling cover kit	
1		Cover	1
2		S suspension cover retaining flange	1
3		M5×16 set screw, flat end	2
	3 675 24 555	Suspension tube screw kit	
4		M5×12 socket head countersunk screw	12
	3 675 25 555	Suspension tube screw kit	
5		Double S suspension bottom cover	2
6		Countersunk Posidriv screw, ISO 7046	2
7		Ceiling flange	1
8		S suspension tube	1
9		Double S suspension end cap	1
10		S suspension circlip washer	2
11		Connecting block	2
12		M4 external tooth lock washer, stainless steel - ARD602420408	6
13		JST 4 mm ring terminal	4
14		Cable clamp	4
15		M3×14 CBL Z screw	8
16		M3×20 CBL Z screw	4
17		M3×11 CBL Z screw	2
18		Cable	2
19		Earth label	3
20		Wrench 82 3	1
21		Product code label	1
22		Connecting block label	2
23		M4 hex nut	2
24		M4×28 CBL Z screw	1
25		Ondal three-track female rotating contact	2
26		M3×8 countersunk screw	2
27		Tab washer	2
28		Circlip for 32 mm shaft	2

DIAGRAM 2

DOUBLE S SUSPENSION FOR CEILING-MOUNTED SURGICAL LIGHT



PARTS LIST 3

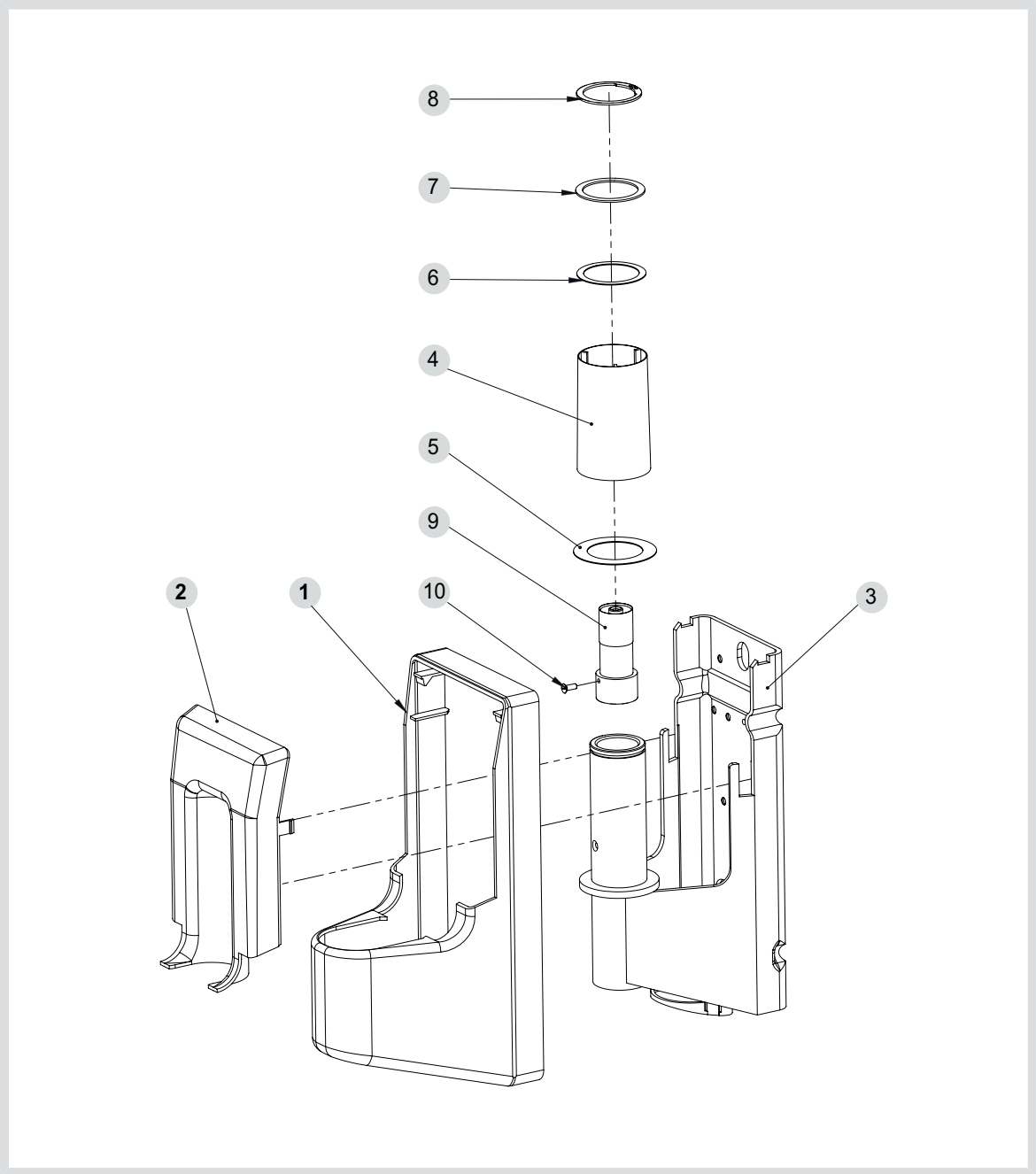
WALL-MOUNTED S SUSPENSION

5 675 01 283

Ref.	Part number	Description	Qty
	3 675 26 555	Wall mounting kit	
1		Wall bracket cover	1
2		Wall bracket cover, section 2	1
3		Welded wall bracket	1
4		End cap	1
5		Wide anchor washer	1
6		Suspension circlip washer	1
7		Thick circlip washer	1
8		Circlip for 32 mm shaft	1
9		Ondal three-track female rotating contact	1
10		M3×8 countersunk screw	1

DIAGRAM 3

WALL-MOUNTED S SUSPENSION



PARTS LIST 4

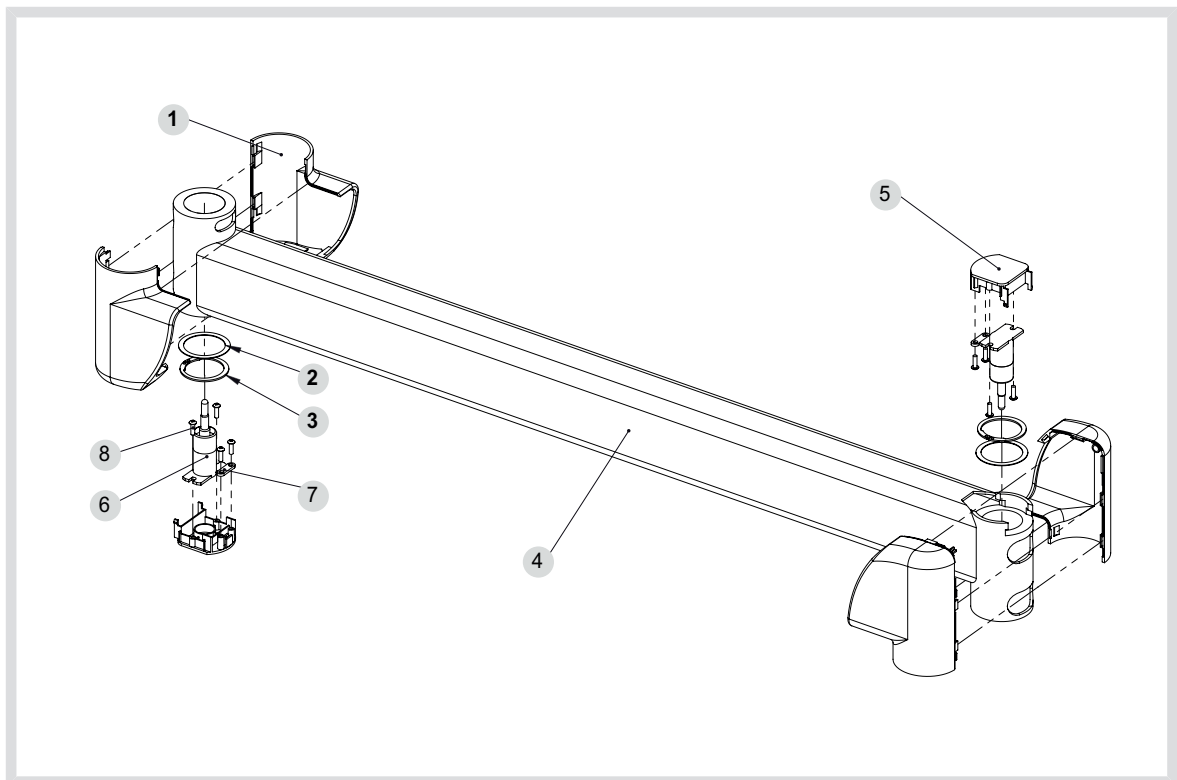
SPRING ARM FOR SINGLE S SUSPENSION

5 675 01 285

Ref.	Part number	Description	Qty
	3 675 20 555	Extension arm kit	
1		Two-piece cover	2
2		S suspension circlip washer	2
3		Circlip for 32 mm shaft	2
4		Welded extension arm	1
5		Contact mount	2
6		Ondal three-track male rotating contact	2
7		Wire clamp	2
8		M3×10 pan head screw - DIN 7985-4.8	8

DIAGRAM 4

SPRING ARM FOR SINGLE S SUSPENSION



PARTS LIST 5

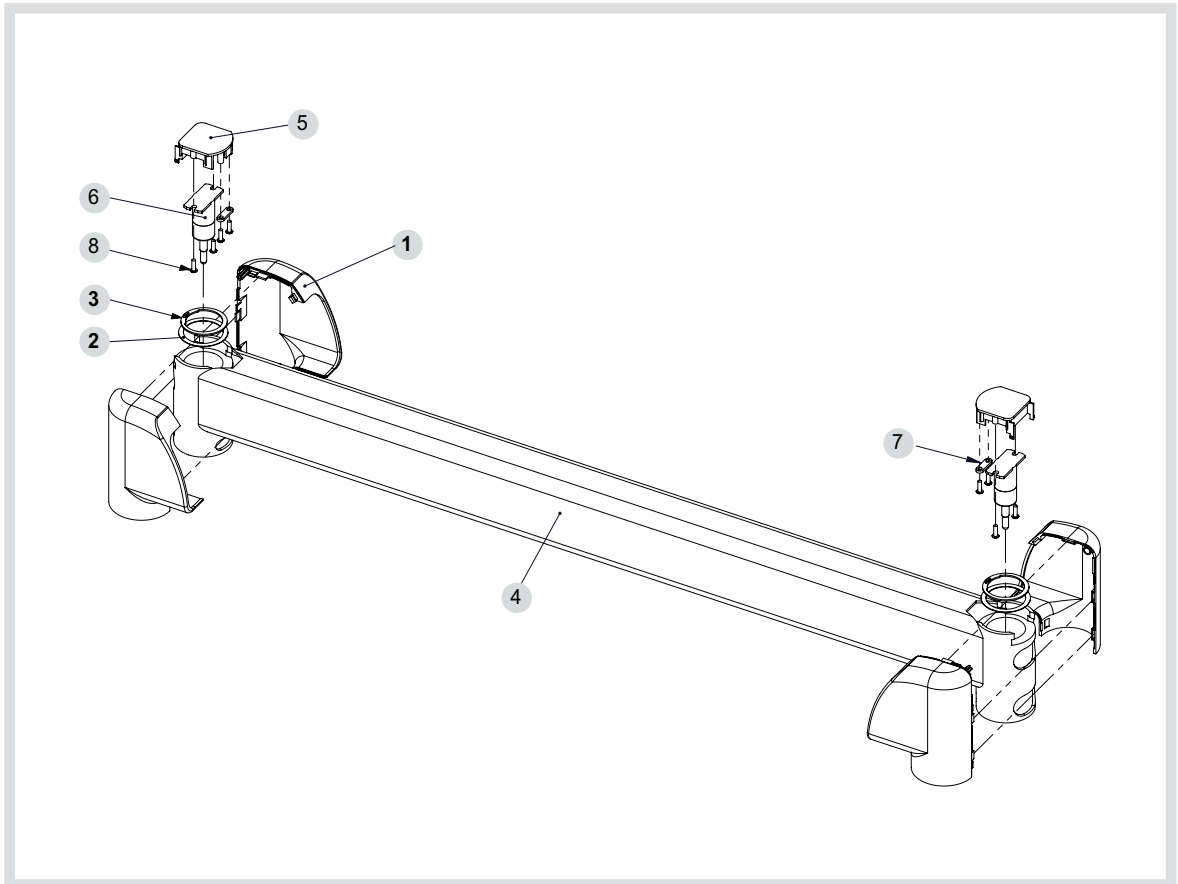
SPRING ARM FOR DOUBLE OR WALL-MOUNTED S SUSPENSION

5 675 01 284

Ref.	Part number	Description	Qty
	3 675 20 555	Extension arm kit	
1		Two-piece cover	2
2		S suspension circlip washer	2
3		Circlip for 32 mm shaft	2
4		Welded extension arm	1
5		Contact mount	2
6		Ondal three-track male rotating contact	2
7		Wire clamp	2
8		M3×10 pan head screw - DIN 7985-4.8	8

DIAGRAM 5

SPRING ARM FOR DOUBLE OR WALL-MOUNTED S SUSPENSION



16.2 SA suspension

PARTS LIST 6

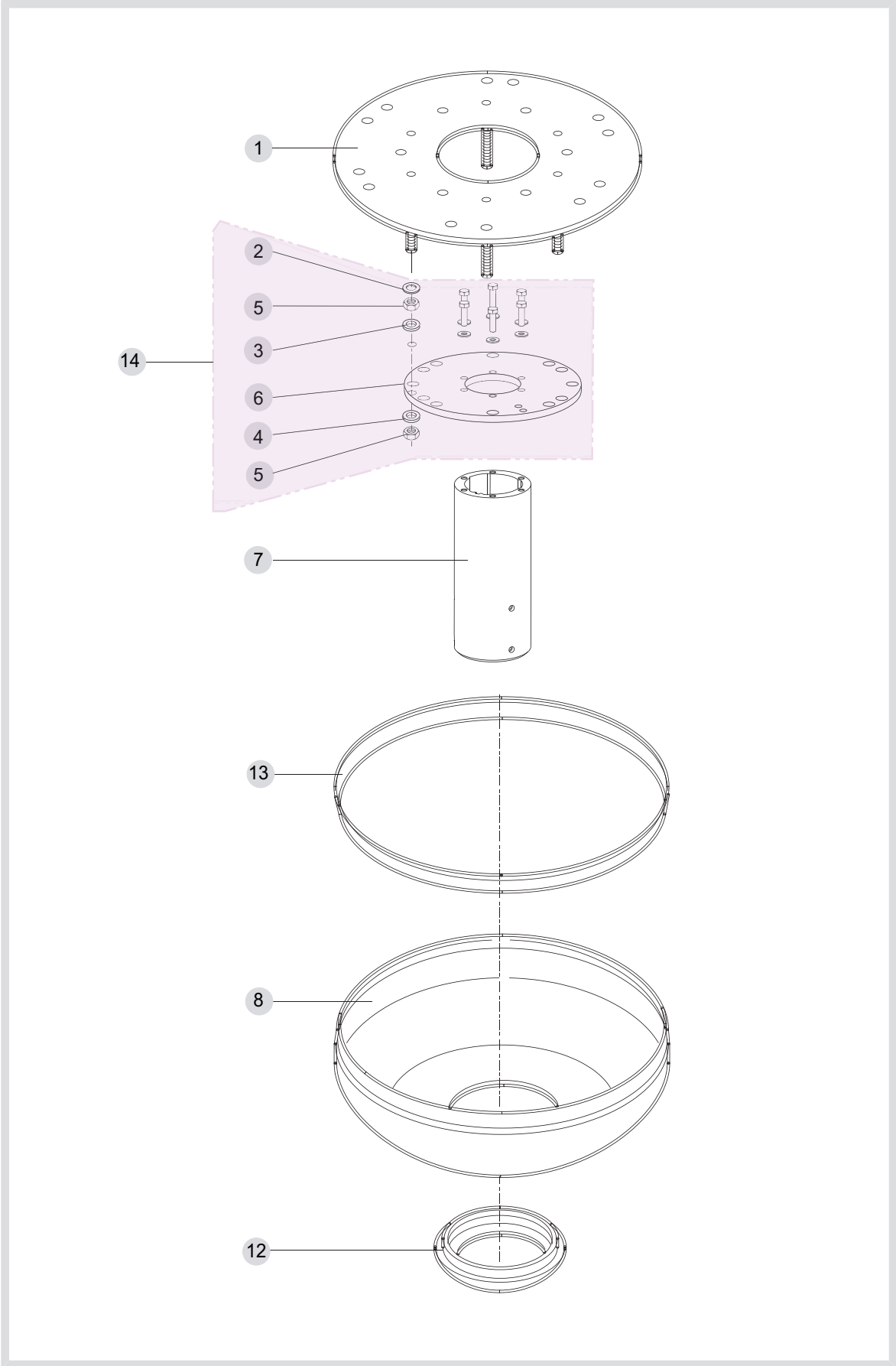
SA SUSPENSION ANCHOR POINT

5 680 51 999

Ref.	Part number	Description	Qty
	5 138 95 999	ECL0015 anchor plate	
1	5 672 01 338	Universal plate	1
14	5 672 60 998	ECL2001 clamp	1
2	6 022 90 009	16-32-3.4 tapered washer	6
3	6 022 90 011	17-40.6 high-strength washer	6
4	6 023 13 016	Z16 washer	6
5	6 013 70 013	Hu M16 nuts, class 10.9	14
6	5 672 01 310	Top spacer plate	1
7	5 680 09 043 to 5 680 09 054	Suspension tube (1065 to 2165). Refer to the installation recommendations for details of available heights.	1
8	5 680 37 999	Curved cover – 2 pieces (ECL 1011)	1
9	5 680 38 999	Curved cover – 2 pieces (ECL 1012)	1
10	5 672 60 999	Curved cover – 1 piece (ECL 1013)	1
11	5 672 60 997	Curved cover – 1 piece (ECL 1013)	1
12	5 672 01 327	Tube seal, diam. 130 mm	1
13	5 680 09 016	Ceiling cover seal	1

DIAGRAM 6

SA SUSPENSION ANCHOR POINT



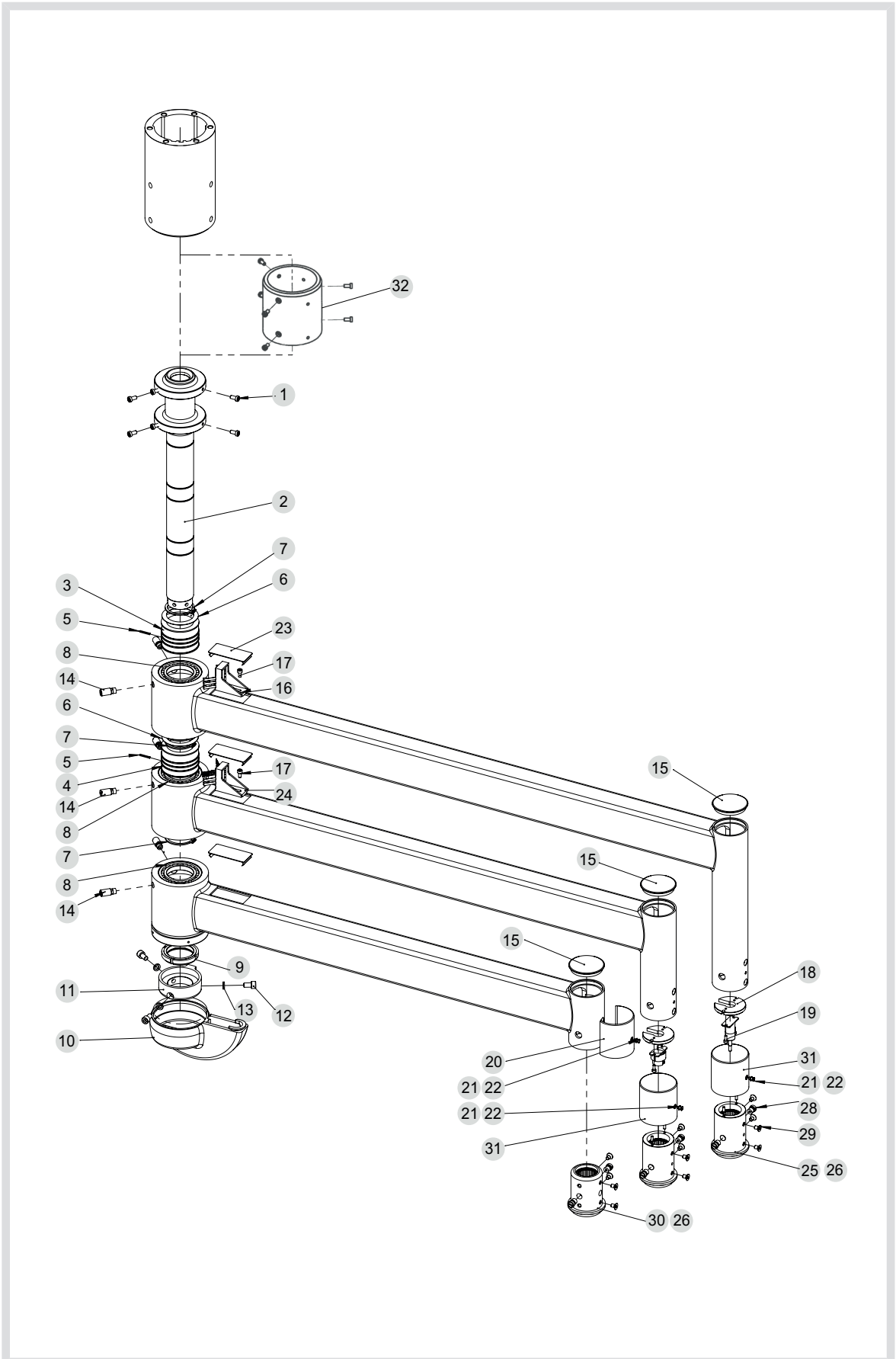
PARTS LIST 7

SA CEILING-MOUNTED SUSPENSION

Ref.	Part number	Description	Qty
1	6 005 40 620	M6×20 socket head cap screw, pre-glued	6
2	5 678 02 004	Triple-fork shaft	1
3	5 678 02 024	Three-track slip ring, diam. 50 mm	1
4	5 678 02 020	Five-track BNC slip ring, diam. 50 mm	1
5	6 030 70 320	Pin	2
6	6 029 95 007	Spring lock washer	2
7	6 394 04 502	Circlip	4
8	6 100 61 805	Ball bearing	3
	3 978 01 555	Stop kit	
9	6 015 60 409	Self-locking slotted nut	1
11	5 678 02 005	Bottom stop	1
12	6 005 10 814	M×14 socket head cap screw	3
13	6 026 00 413	Grower washer	3
10	5 678 02 006	Video bumper	1
	3 978 02 555	Brake-screw kit (x5)	
14	5 678 02 028	M12×100 brake screw	5
15	6 520 00 186	GPN cap	3
	3 978 04 555	Three-track brushes + connector	
16	5 678 02 022	Three-track brushes (diam. 50 mm) + connector	1
17	6 009 90 036	M4×10 shouldered socket head Eco-fix screw	2
18	5 678 02 008	Contact mounting plate	2
19	6 005 30 410	M4×10 socket head cap screw	4
20	5 678 02 015	Half slip ring	1
	3 978 03 555	Slip ring kit	
21	6 025 70 408	Washer	3
22	6 003 30 410	M4×10 countersunk head screw	3
31	5 678 02 014	Slip ring	2
23	5 678 02 007	Cover panel	3
	3 678 24 555	Five-track video brushes + connector	
17	6 009 90 036	M4×10 shouldered socket head Eco-fix screw	2
18	5 678 02 008	Contact mounting plate	2
24	5 678 02 021	Five-track brushes (diam. 50 mm) + connector	1
	3 683 33 998	Spring arm end cap	
25	5 678 02 012	Spring arm end cap	1
26	5 668 00 39	Needle bush	1
27	6 030 50 410	Pin	2
28	5 678 02 029	M12×100 brake screw	2
29	6 004 10 608	M6×8 socket head countersunk screw	4
	3 978 04 998	SA FS suspension bushing S/A with stop	
26	5 668 00 39	Needle bush	1
28	5 678 02 029	M12×100 brake screw	2
29	6 004 10 608	M6×8 socket head countersunk screw	4
30	5 678 02 013	End cap for spring arm with stop	1
32	5 679 14 999	Hanau tube fastening adapter kit	1

DIAGRAM 7

SA CEILING-MOUNTED SUSPENSION



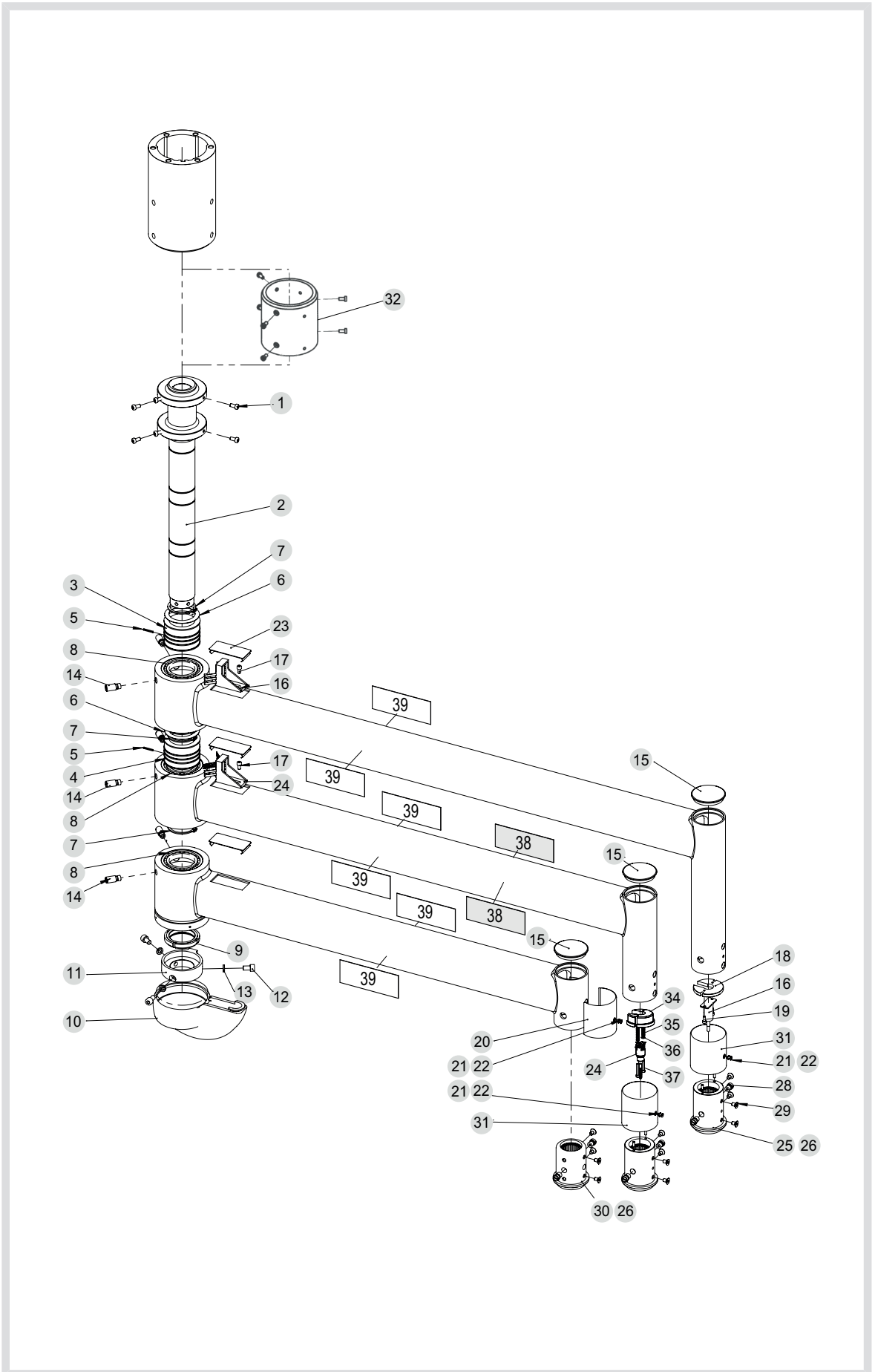
PARTS LIST 8

SA CEILING-MOUNTED HD SUSPENSION

Ref.	Part number	Description	Qty
1	6 005 40 620	M6×20 socket head cap screw, pre-glued	6
2	5 678 02 004	Triple-fork shaft	1
3	5 678 02 024	Three-track slip ring, diam. 50 mm	1
4	5 677 05 114	HD slip ring	1
5	6 030 70 320	Pin	2
6	6 029 95 007	Spring lock washer	2
7	6 394 04 502	Circlip	4
8	6 100 61 805	Ball bearing	3
	3 978 01 555	Stop kit	
9	6 015 60 409	Self-locking slotted nut	1
11	5 678 02 005	Bottom stop	1
12	6 005 10 814	M×14 socket head cap screw	3
13	6 026 00 413	Grower washer	3
10	5 678 02 006	Video bumper	1
	3 978 02 555	Brake-screw kit (x5)	
14	5 678 02 028	M12×100 brake screw	5
15	6 520 00 186	GPN cap	3
	3 978 04 555	Three-track brushes + connector	
16	5 678 02 022	Three-track brushes (diam. 50 mm) + connector	1
17	6 009 90 036	M4×10 shouldered socket head Eco-fix screw	2
18	5 678 02 008	Contact mounting plate	2
19	6 005 30 410	M4×10 socket head cap screw	4
20	5 678 02 015	Half slip ring	1
	3 978 03 555	Slip ring kit	
21	6 025 70 408	Washer	3
22	6 003 30 410	M4×10 countersunk head screw	3
31	5 678 02 014	Slip ring	2
23	5 678 02 007	Cover panel	3
	3 678 24 555	Five-track video brushes + connector	
17	6 009 90 036	M4×10 shouldered socket head Eco-fix screw	2
18	5 678 02 008	Contact mounting plate	2
24	5 677 05 113	Extension arm-brush HD video cable	1
	3 683 33 998	Spring arm end cap	
25	5 678 02 012	Spring arm end cap	1
26	5 668 00 39	Needle bush	1
27	6 030 50 410	Pin	2
28	5 678 02 029	M12×100 brake screw	2
29	6 004 10 608	M6×8 socket head countersunk screw	4
	3 978 04 998	SA FS suspension bushing S/A with stop	
26	5 668 00 39	Needle bush	1
28	5 678 02 029	M12×100 brake screw	2
29	6 004 10 608	M6×8 socket head countersunk screw	4
30	5 678 02 013	End cap for spring arm with stop	1
32	5 679 14 999	Hanau tube fastening adapter kit	1
34	5 678 02 049	Rotating spring contact mounting plate	1
35	5 678 01 102	Cam spring	2
36	6 023 20 842	Z4 washer	2
37	6 005 30 425	M4×25 socket head cap screw	2
38	5 678 02 060	Maquet label	6
39	5 678 02 061	HD label	2

DIAGRAM 8

SA CEILING-MOUNTED HD SUSPENSION



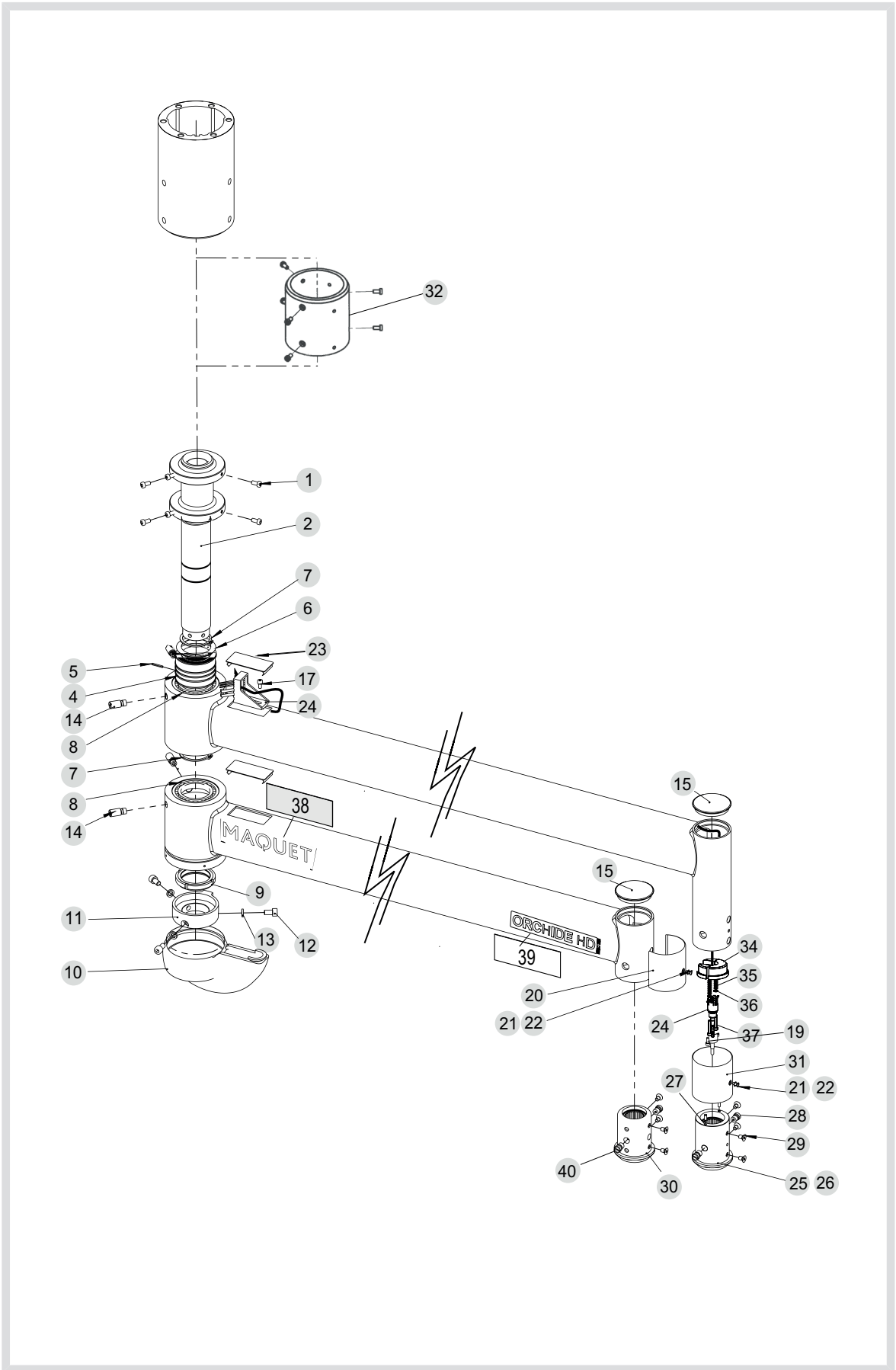
PARTS LIST 9

SA CEILING-MOUNTED HOR SUSPENSION

Ref.	Part number	Description	Qty
1	6 005 40 620	M6×20 socket head cap screw, pre-glued	6
2	5 678 02 016	Double-fork shaft	1
4	5 677 05 114	Eight-track slip ring, diam. 50 mm	1
5	6 030 70 320	Pin	1
6	6 029 95 007	Spring lock washer	1
7	6 394 04 502	Circlip	4
8	6 100 61 805	Ball bearing	4
9	6 015 60 409	Self-locking slotted nut	1
10	5 678 02 006	Video bumper	1
11	5 678 02 005	Bottom stop	1
12	6 005 10 814	M×14 socket head cap screw	3
13	6 026 00 413	Grower washer	3
	3 978 02 555	SA suspension arm brake screw kit (5 screws)	
14	5 678 02 028	M12×100 brake screw	4
15	6 520 00 186	GPN cap	2
19	6 005 30 410	M4×10 socket head cap screw	2
	3 978 05 555	Half slip ring kit	
20	5 678 02 015	Suspension arm half slip ring	1
21	6 025 70 408	Washer	1
22	6 003 30 410	M4×10 countersunk head screw	1
	3 978 03 555	Slip ring kit	
31	5 678 02 014	Slip ring	1
21	6 025 70 408	Washer	1
22	6 003 30 410	M4×10 countersunk head screw	1
23	5 678 02 007	Cover panel	2
25	5 678 02 012	Spring arm end cap	1
26	5 668 00 39	Needle bush	4
27	6 030 50 410	Pin	2
	3 150 07 555	Brake screw kit	
28	5 678 02 029	M12×100 brake screw. Length: 17 mm	2
29	6 004 10 608	M6×8 socket head countersunk screw	8
30	5 678 02 013	End cap for spring arm with stop	1
32	5 679 14 999	Hanau tube fastening adapter kit	1
	3 683 84 555	HD video cable kit (1600 mm)	
17	6 009 90 036	M4×10 shouldered socket head Eco-fix screw	1
24	5 678 02 104	Nine-track brush, diam. 50 mm + connector / Length: 1600 mm	1
34	5 678 02 049	Rotating spring contact mounting plate	1
35	5 678 01 102	Cam spring	2
36	6 023 20 842	Z4 washer	2
37	6 005 30 425	M4×25 socket head cap screw	2
38	5 678 02 060	Maquet label	4
39	5 678 02 061	HD label	2
	3 150 02 555	Brake screw kit	
40	5 678 020 32	M12×100 brake screw. Length: 13 mm	2
	3 683 85 555	Three-track cable kit (1600 mm) not shown	1

DIAGRAM 9

SA CEILING-MOUNTED HOR SUSPENSION



16.3 Spring arms

PARTS LIST 10

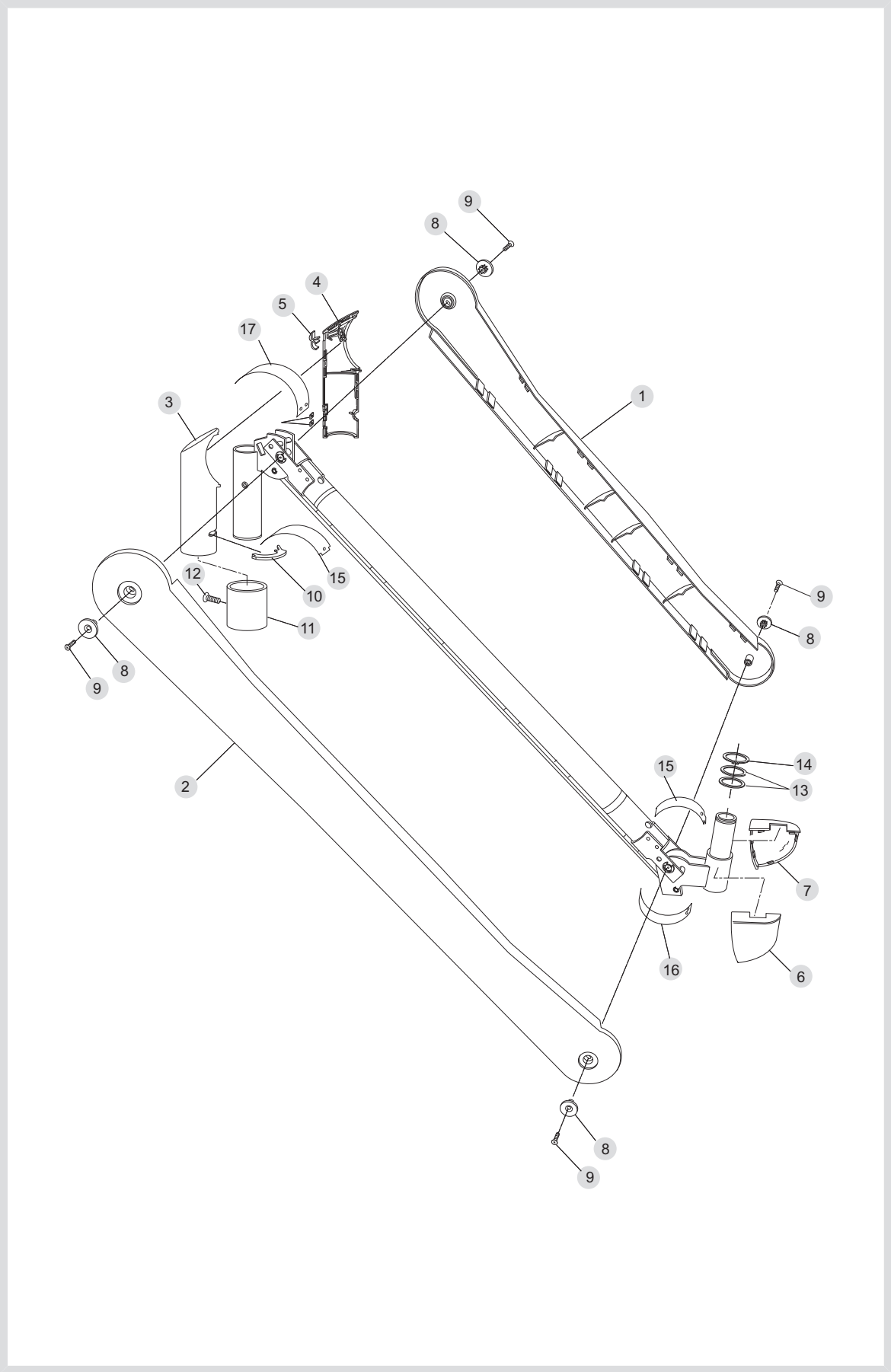
ACROBAT 2000 DF SPRING ARM

Arm codes: 5 679 10 901
 5 678 01 115
 5 679 10 910
 5 679 10 972
 5 679 10 973
 5 679 10 974

Ref.	Part number	Description	Qty
	3 678 25 555	DF spring arm side covers	
1		DF right cover	1
2		DF left cover	1
3		Lighthouse side left cover	1
4		Lighthouse side right cover	1
6		Suspension left cover	1
7		Suspension right cover	1
8		Flanged cover shaft	4
9		M3×16 screw	4
10	3 678 32 555	Snap ring	1
	3 678 35 555	BR AC 2000 DF retaining ring kit	
11		Retaining ring	1
12		M3×8 screw	1
13		Washer, diam. 32.3 mm × 39 mm, thickness 0.5 mm	1
14	6 394 11 312	Elastic ring, diam. 32 mm, thickness 1.5 mm	1
	560 53 311	BR AC 2000 DF metal half-rings	
15		Metal half-ring 1	2
16		Metal half-ring 2	1
17		Metal half-ring 3	1
	3 683 03 900	BR AC 2000 DF front covers	
3		Lighthouse side left cover	1
4		Lighthouse side right cover	1
5		Adjustment screw cap	1
	3 675 01 900	BR AC 2000 DF rear covers	
6		Suspension left cover	1
7		Suspension right cover	1

DIAGRAM 10

ACROBAT 2000 DF SPRING ARM



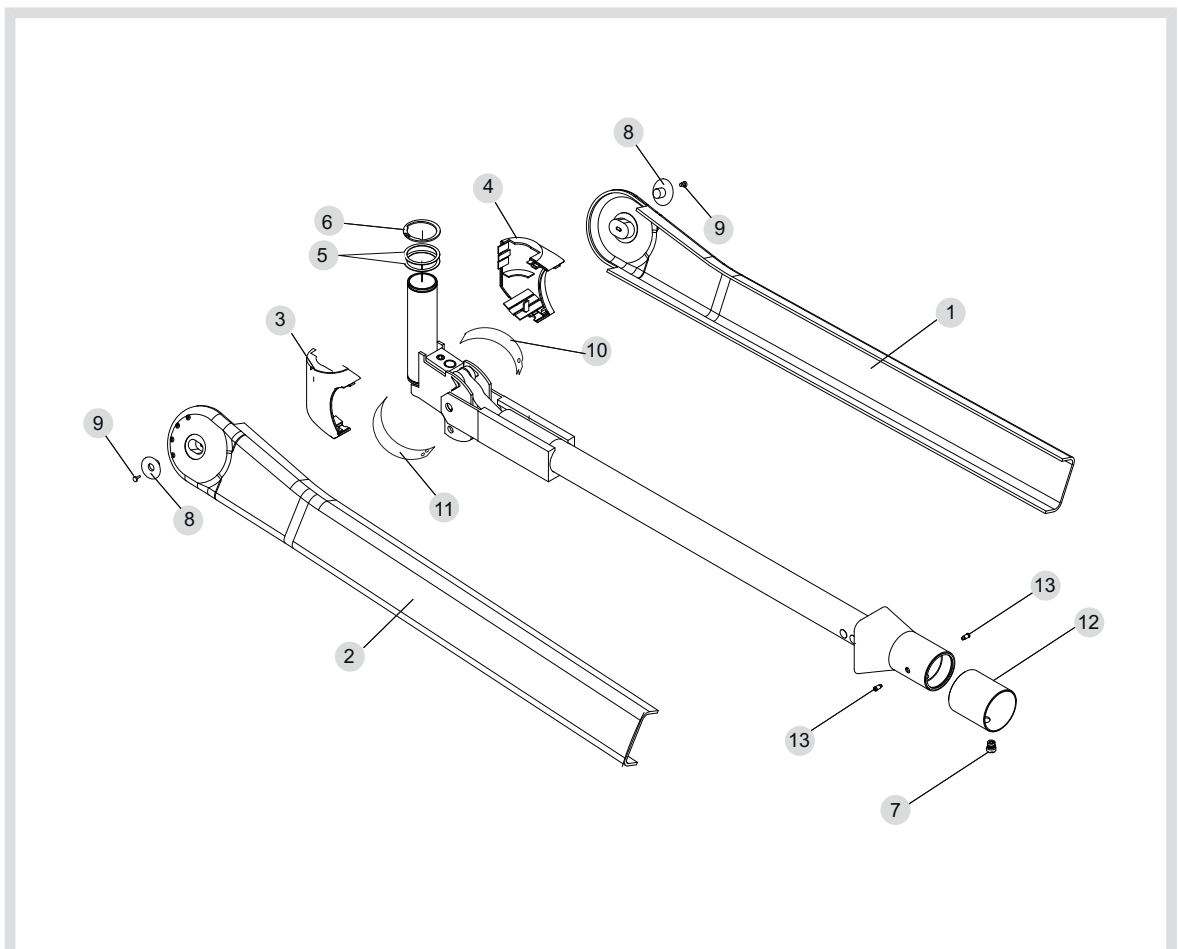
PARTS LIST 11

ACROBAT 2000 SF SPRING ARM

Ref.	Part number	Description	Qty
	3 678 28 555	Side cover S/A for SF spring arm	
1		SF right cover	1
2		SF left cover	1
	3 675 01 900	Spring arm rear cover	
3		Lighthouse side left cover	1
4		Lighthouse side right cover	1
5		Washer, Ø 32.3 mm, Ø39 mm, thickness 0.5 mm	1
6	6 394 11 312	Elastic ring, diam. 32 mm, thickness 1.5 mm	1
7	3 683 06 900	SF spring arm brake screw	1
	3 678 27 555	Metal half-rings for SF arm	
8		Flanged cover shaft	2
9		M3×16 screw	2
10		Metal half-ring 1	1
11		Metal half-ring 2	1
		Adjustment tools (not shown)	1
	3 675 22 555	AC 2000 SF spring arm ring + screw + brake kit	
7		Spring arm brake screw	1
12		Safety ring	1
13		Retaining screw	2

DIAGRAM 11

ACROBAT 2000 SF SPRING ARM



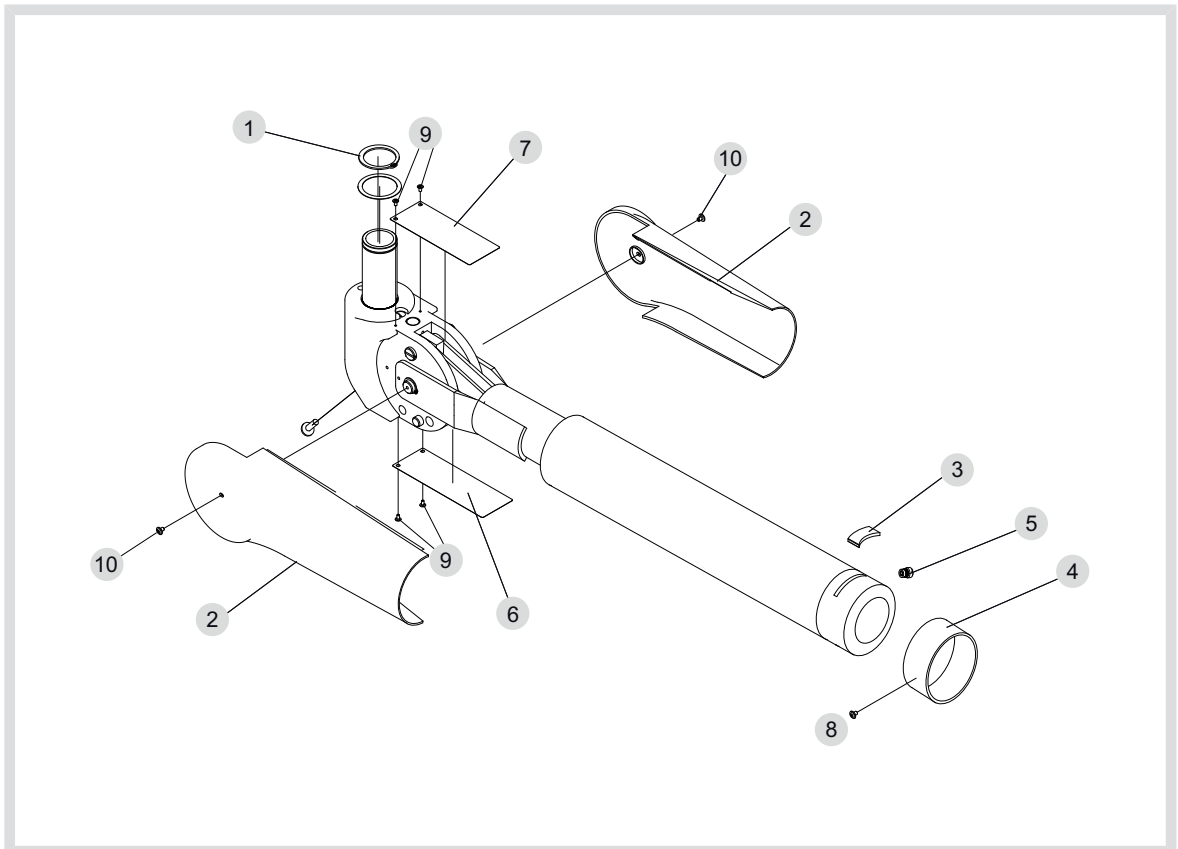
PARTS LIST 12

ONDASPACE SF SPRING ARM

Ref.	Part number	Description	Qty
1	3 681 30 555	Clip + screw kit for DF/SF spring arm Circlip Screw (not shown)	
2	3 683 01 900	Cover kit for SF spring arm Side covers	2
6		Metal cover 1	1
7		Metal cover 2	1
9		Screw	4
10		Screw	2
3	3 681 33 555	Snap ring/ring kit for SF spring arm Snap ring	1
4		Retaining ring	1
8		Screw	1
6	3 150 21 555	Metal cover kit for SF/DF spring arm Metal cover 1	1
7		Metal cover 2	3
5	3 672 37 555	Brake screw	5

DIAGRAM 12

ONDASPACE SF SPRING ARM



16.4 PWD 700/700 Evolution forks

PARTS LIST 13

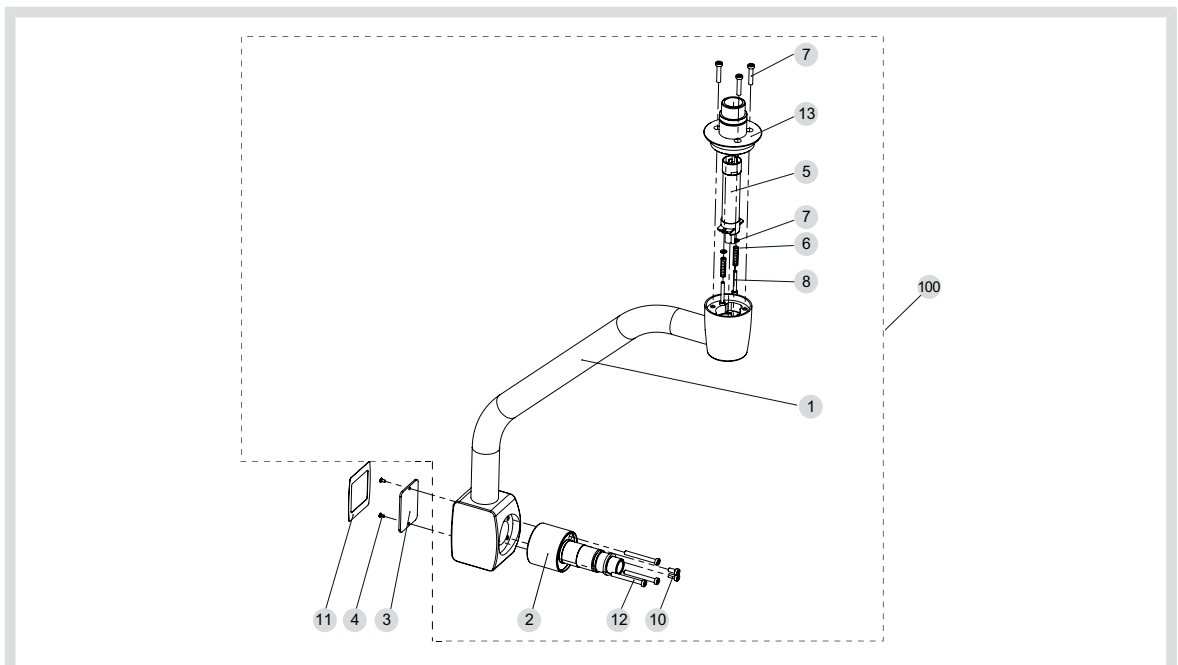
PWD/HLED 700 THREE-TRACK SF FORK

5 683 01 801

Ref.	Part number	Description	Qty
1	5 683 01 034	Painted SF fork	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 01 053	Fork control keypad	1
4	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
11	5 683 01 064	Keypad protective film	1
5	5 683 01 073	PWD three-track single fork cable*	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 70 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 01 131	SF shaft	1
100	3 683 02 998	Complete PWD/HLD 700 STD SF fork S/A**	1
	3 683 31 555	Kit of 10 Lexan stickers	
11	5 683 01 064	Keypad protective film	10

DIAGRAM 13

PWD/HLED 700 THREE-TRACK SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

(**) The fork Lexan panel kit 3 683 29 555 should be ordered separately.

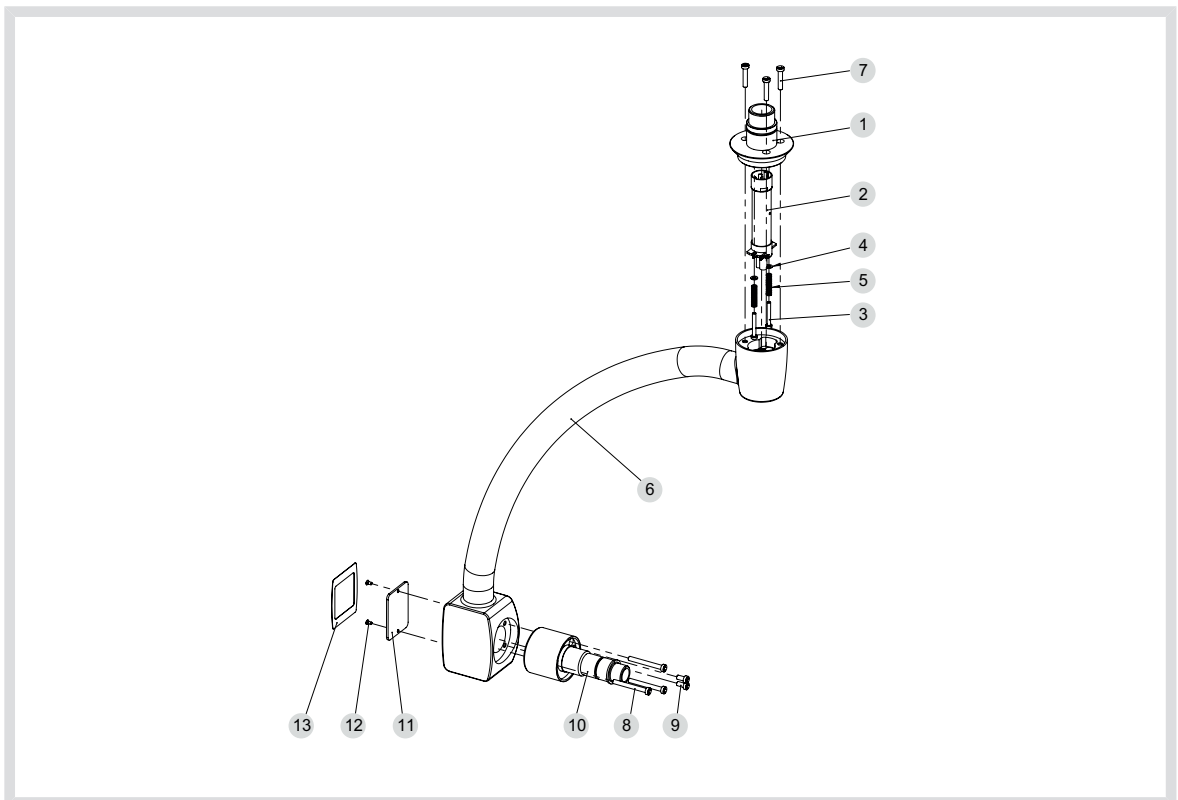
PARTS LIST 14

PWD/HLED 700 VIDEO SF FORK
5 683 70 803

Ref.	Part number	Description	Qty
1	5 683 01 131	SF shaft	1
2	5 683 50 504	Single fork video cable*	1
3	6 009 70 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
4	6 023 20 842	Z4 washer, stainless steel	2
5	5 678 01 102	Cam spring	2
6	5 683 01 034	SF fork	1
7	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
8	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
9	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
10	5 683 01 033	SF fork shaft	
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
11	5 683 01 053	Fork control keypad	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 064	Keypad protective film	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Keypad protective film	10

DIAGRAM 14

PWD/HLED 700 VIDEO SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

PARTS LIST 15

PWD/HLED 700 HD VIDEO SF FORK

5 683 20 803

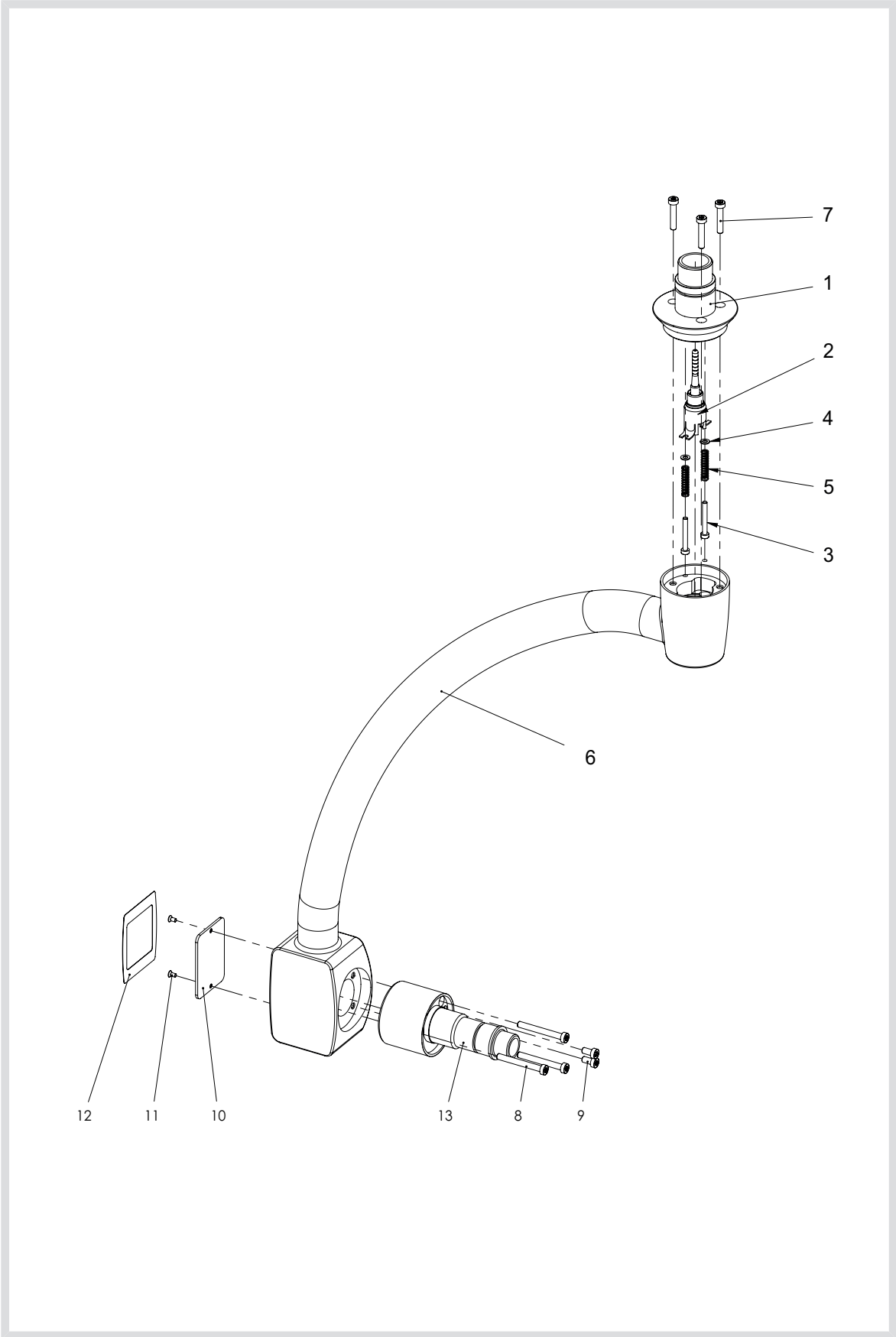
Ref.	Part number	Description	Qty
1	5 683 01 131	SF shaft	1
3	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
4	6 023 20 842	Z4 washer, stainless steel	2
5	5 678 01 102	Cam spring	2
6	5 683 01 034	SF fork	1
7	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
8	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
9	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
	3 683 29 555	Fork dimmer Lexan panel kit	
10	5 683 01 053	Lighthouse control Lexan panel	1
11	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
12	5 683 01 064	Lexan panel protective film	1
13	5 683 01 033	SF fork shaft	
	3 683 89 555	SF fork + V2 lighthouse HD cable kit*	
2	5 677 05 133	PWD SF fork HD cable	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 31 555	Kit of 10 Lexan stickers	
12	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 15

PWD/HLED 700 HD VIDEO SF FORK



PARTS LIST 16

PWD/HLED 700 THREE-TRACK DF FORK

5 683 01 803

Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
11	5 683 01 053	Fork control keypad	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 064	Keypad protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 01 071	Three-track DF input cable*	1
17	5 683 01 124	Bearing thrust washer	2
18	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
19	6 029 96 001	Waved elastic washer	10
20	6 018 60 020	M20×1 slotted nut	1
100	3 683 06 998	Complete PWD/HLD 700 STD DF fork S/A**	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Lexan panel protective film	10

RECOMMENDATION

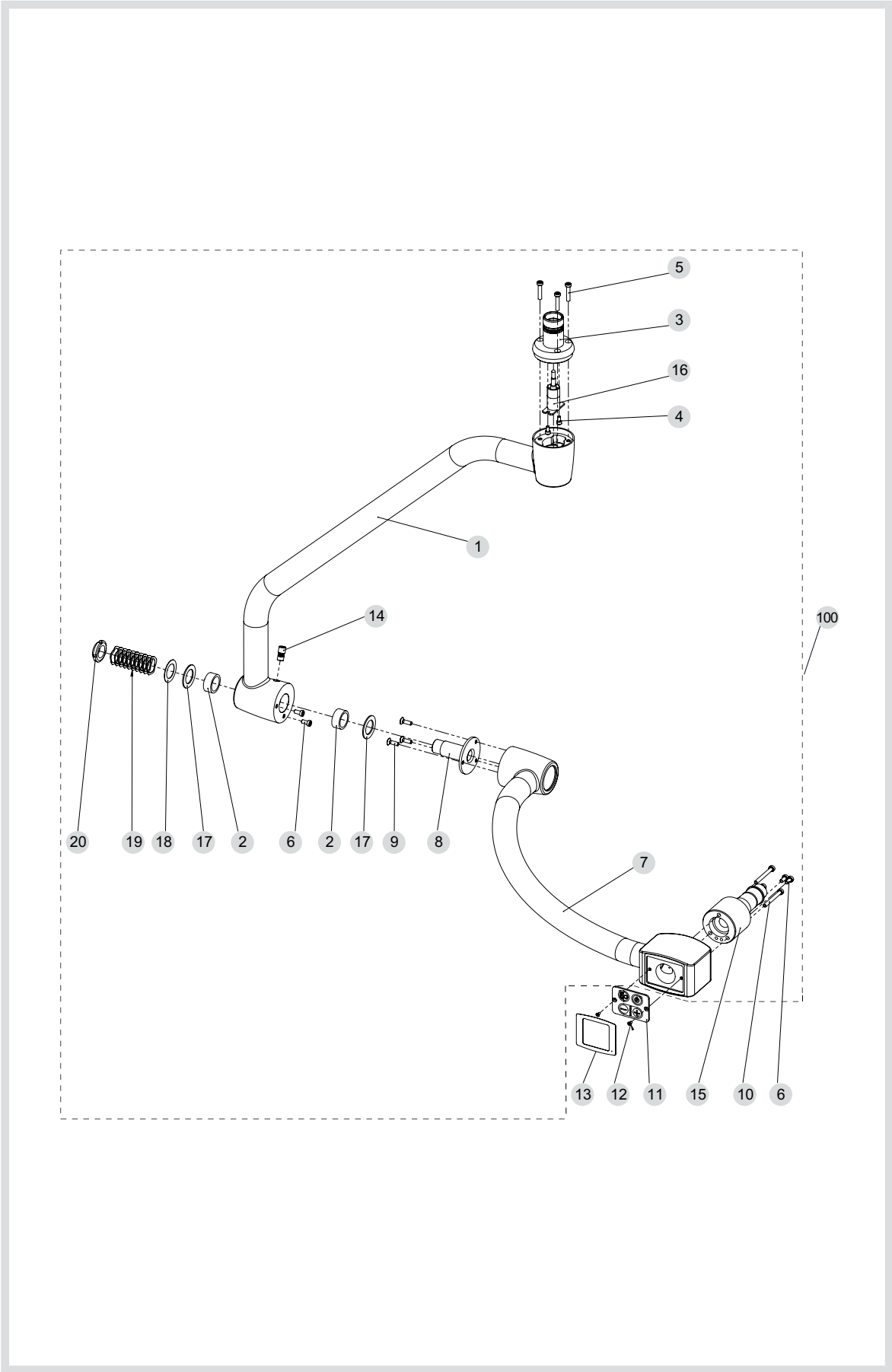
(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

RECOMMENDATION

(**) The fork Lexan panel kit 3 683 29 555 should be ordered separately.

DIAGRAM 16

PWD/HLED 700 THREE-TRACK DF FORK



PARTS LIST 17

PWD/HLED 700 video DF fork

5 683 70 805

Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
11	5 683 01 053	Fork control keypad	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 064	Keypad protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 50 505	Double fork video cable (*)	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
100	3 683 11 998	Complete PWD 700 video DF fork S/A**	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Lexan panel protective film	10

RECOMMENDATION

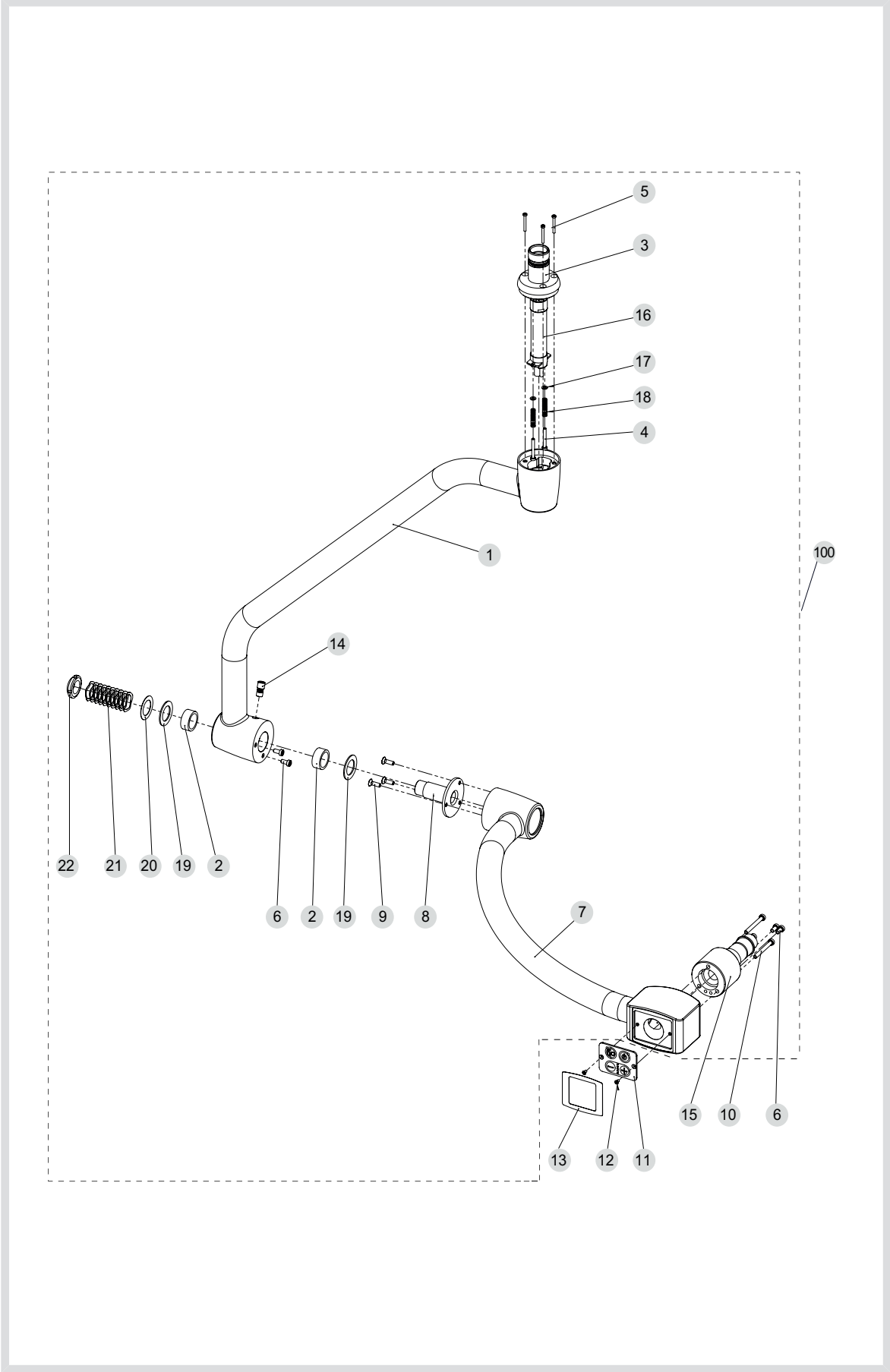
(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

RECOMMENDATION

(**) The fork Lexan panel kit 3 683 29 555 should be ordered separately.

DIAGRAM 17

PWD/HLED 700 video DF fork



PARTS LIST 18

PWD/HLED 700 HD video DF fork

5 683 20 801

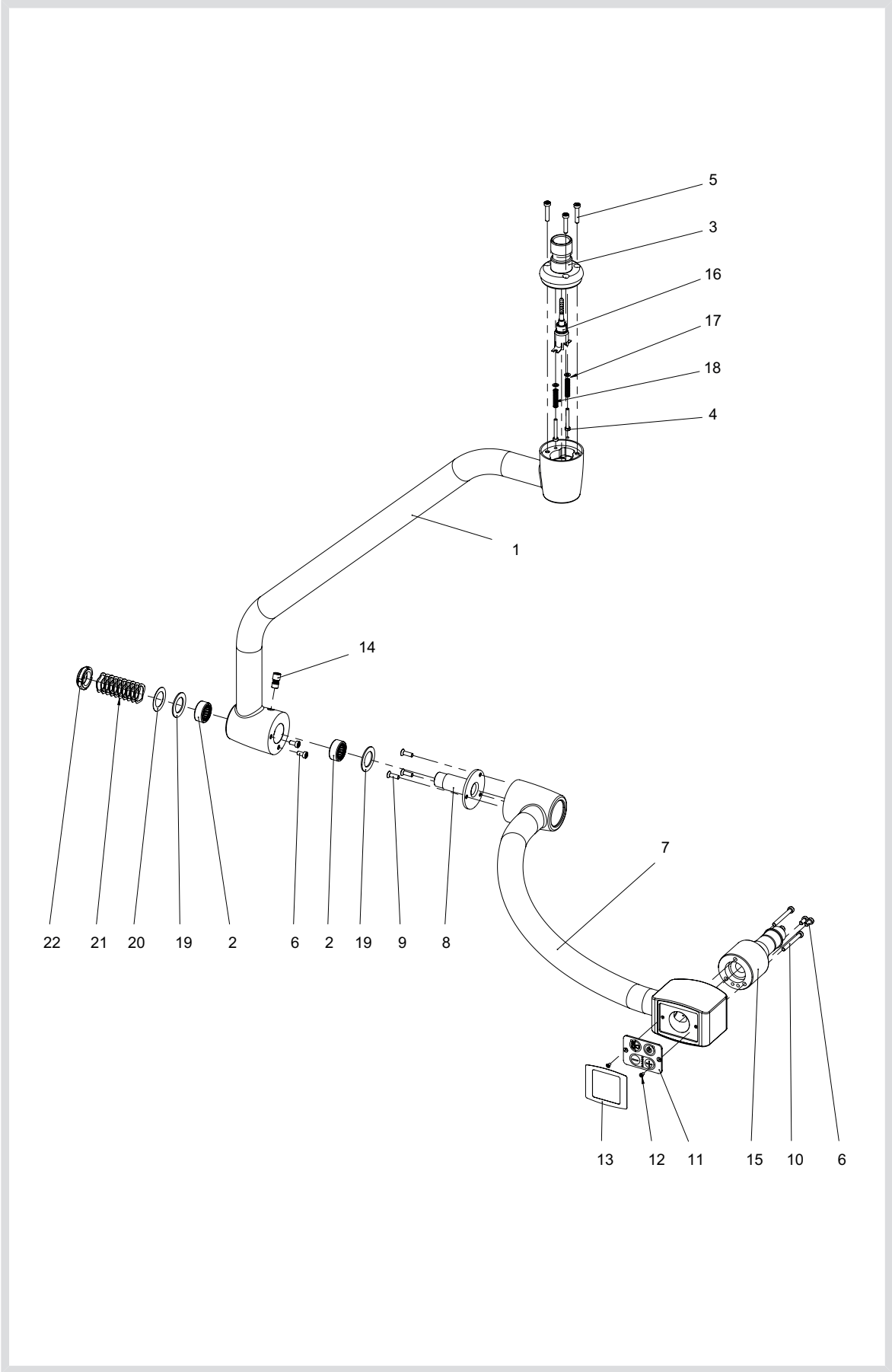
Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	Fork dimmer lexan panel kit	
11	5 683 01 053	Lighthouse control Lexan panel	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 064	Lexan panel protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
	3 683 88 555	PWD/HLD DF fork + V2 lighthouse HD cable kit*	
16	5 677 05 121	PWD DF fork HD cable	1
		Lighthouse HD video cable (not shown)	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 18

PWD/HLED 700 HD video DF fork



16.5 PWD 700/700 Boost forks

PARTS LIST 19

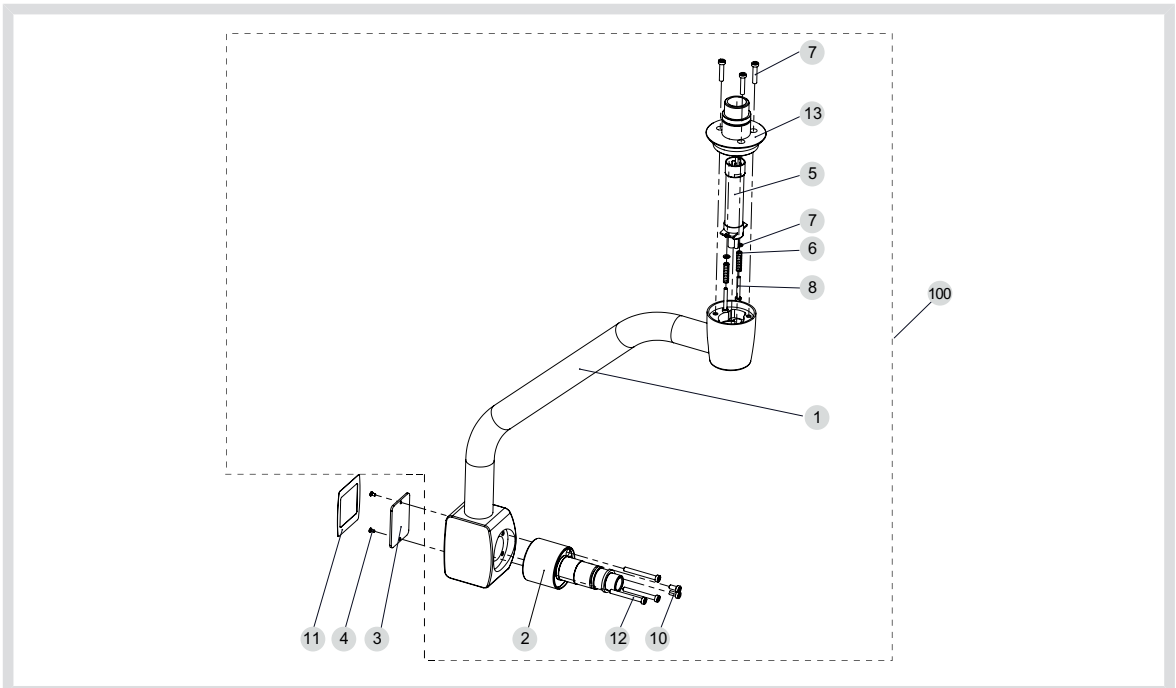
PWD/HLED 700 BOOST THREE-TRACK SF FORK

5 683 01 801

Ref.	Part number	Description	Qty
1	5 683 01 034	Painted SF fork	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 29 556	PWD/HLD Boost fork Lexan panel kit	
3	5 683 10 915	Fork Lexan control panel	1
4	6 009 90 115	M3×6 hexalobular socket countersunk head screw, A2 stainless steel	2
11	5 683 01 164	Lexan panel protective film	1
5	5 683 01 073	PWD three-track single fork cable*	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 70 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 01 131	SF shaft	1
100	3 683 02 998	Complete PWD/HLD 700 STD SF fork S/A**	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
11	5 683 01 164	Lexan Boost protective film	10

DIAGRAM 19

PWD/HLED 700 BOOST THREE-TRACK SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.
 (***) The fork Lexan panel kit 3 683 01 556 should be ordered separately.

PARTS LIST 20

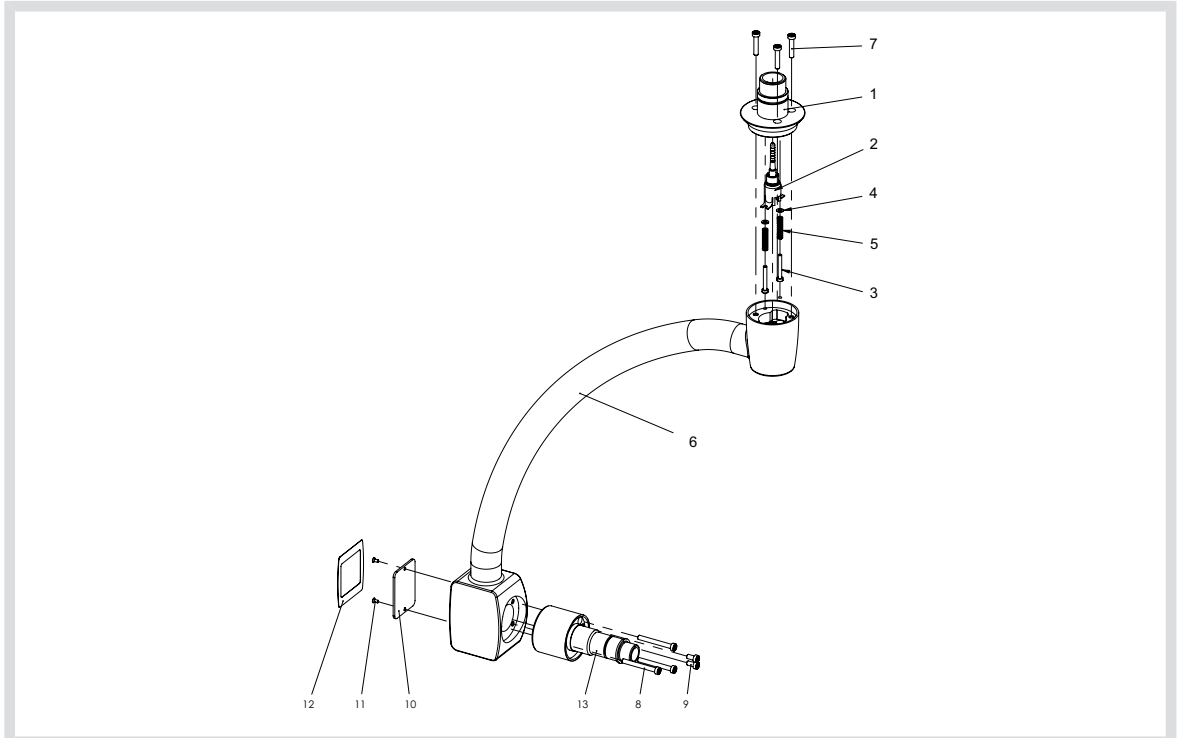
PWD/HLED 700 BOOST HD VIDEO SF FORK

5 683 20 803

Ref.	Part number	Description	Qty
1	5 683 01 131	SF shaft	1
3	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
4	6 023 20 842	Z4 washer, stainless steel	2
5	5 678 01 102	Cam spring	2
6	5 683 01 034	SF fork	1
7	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
8	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
9	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
10	5 683 10 915	Fork Lexan control panel	1
11	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
12	5 683 01 064	Lexan panel protective film	1
13	5 683 01 033	SF fork shaft	
	3 683 89 555	SF fork + V2 lighthouse HD cable kit*	
2	5 677 05 133	PWD SF fork HD cable	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
12	5 683 01 164	Lexan panel protective film	10

DIAGRAM 20

PWD/HLED 700 BOOST HD VIDEO SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

PARTS LIST 21

PWD/HLED 700 BOOST THREE-TRACK DF FORK

5 683 01 803

Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
11	5 683 10 915	Fork Lexan control panel	1
12	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
13	5 683 01 164	Lexan panel protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 01 071	Three-track DF input cable*	1
17	5 683 01 124	Bearing thrust washer	2
18	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
19	6 029 96 001	Waved elastic washer	10
20	6 018 60 020	M20×1 slotted nut	1
100	3 683 06 998	Complete PWD/HLD 700 STD DF fork S/A**	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
13	5 683 01 164	Lexan Boost protective film	10

RECOMMENDATION

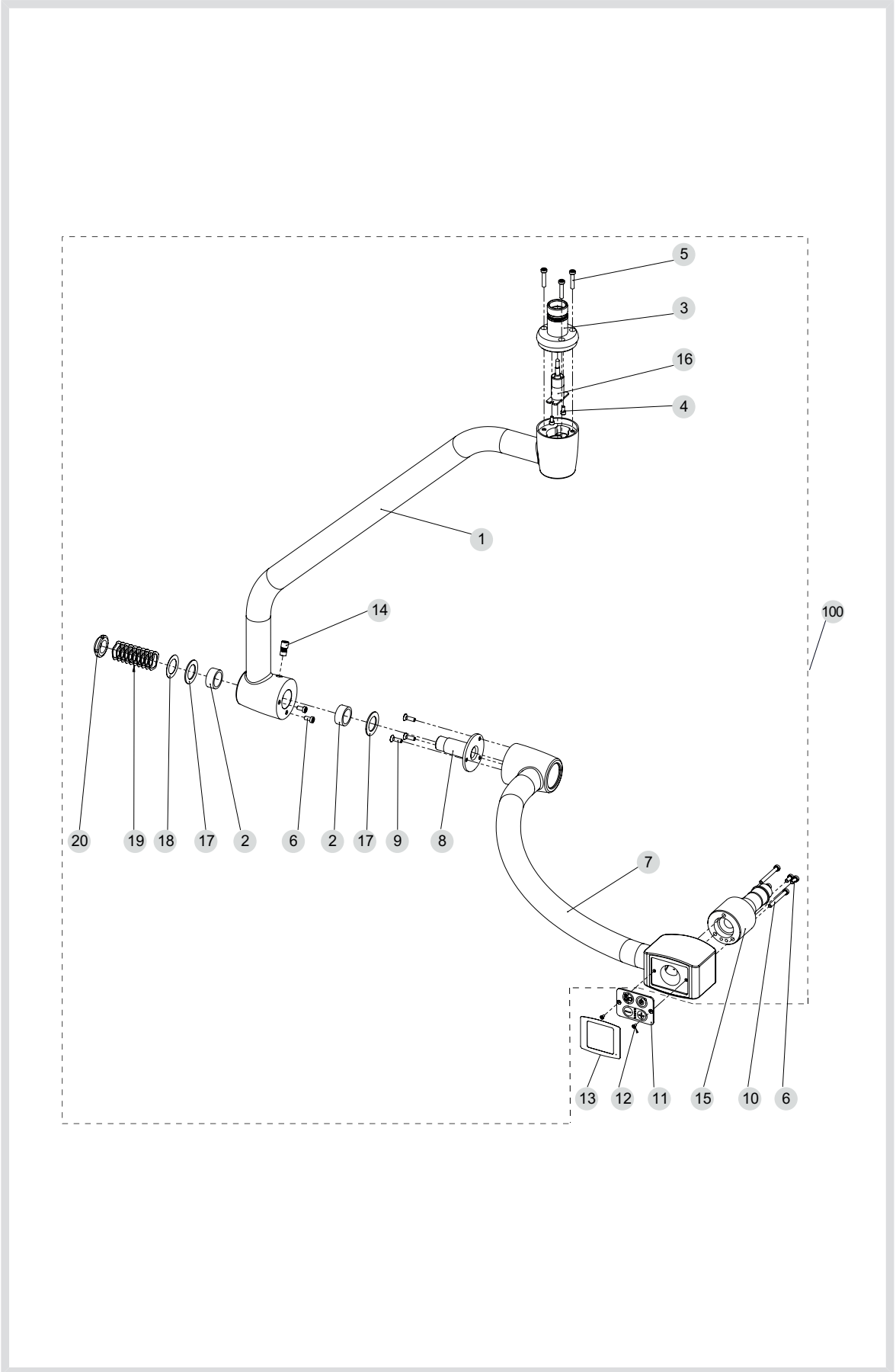
(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

RECOMMENDATION

(**) The fork Lexan panel kit 3 683 01 556 should be ordered separately.

DIAGRAM 21

PWD/HLED 700 BOOST THREE-TRACK DF FORK



PARTS LIST 22

PWD/HLED 700 BOOST VIDEO DF FORK

5 683 70 805

Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
11	5 683 10 915	Fork Lexan control panel	1
12	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
13	5 683 01 164	Lexan panel protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 50 505	Double fork video cable (*)	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
100	3 683 11 998	Complete PWD 700 video DF fork S/A**	1
	3 683 02 556	Kit of 10 Lexan stickers	
13	5 683 01 164	Lexan panel protective film	10

RECOMMENDATION

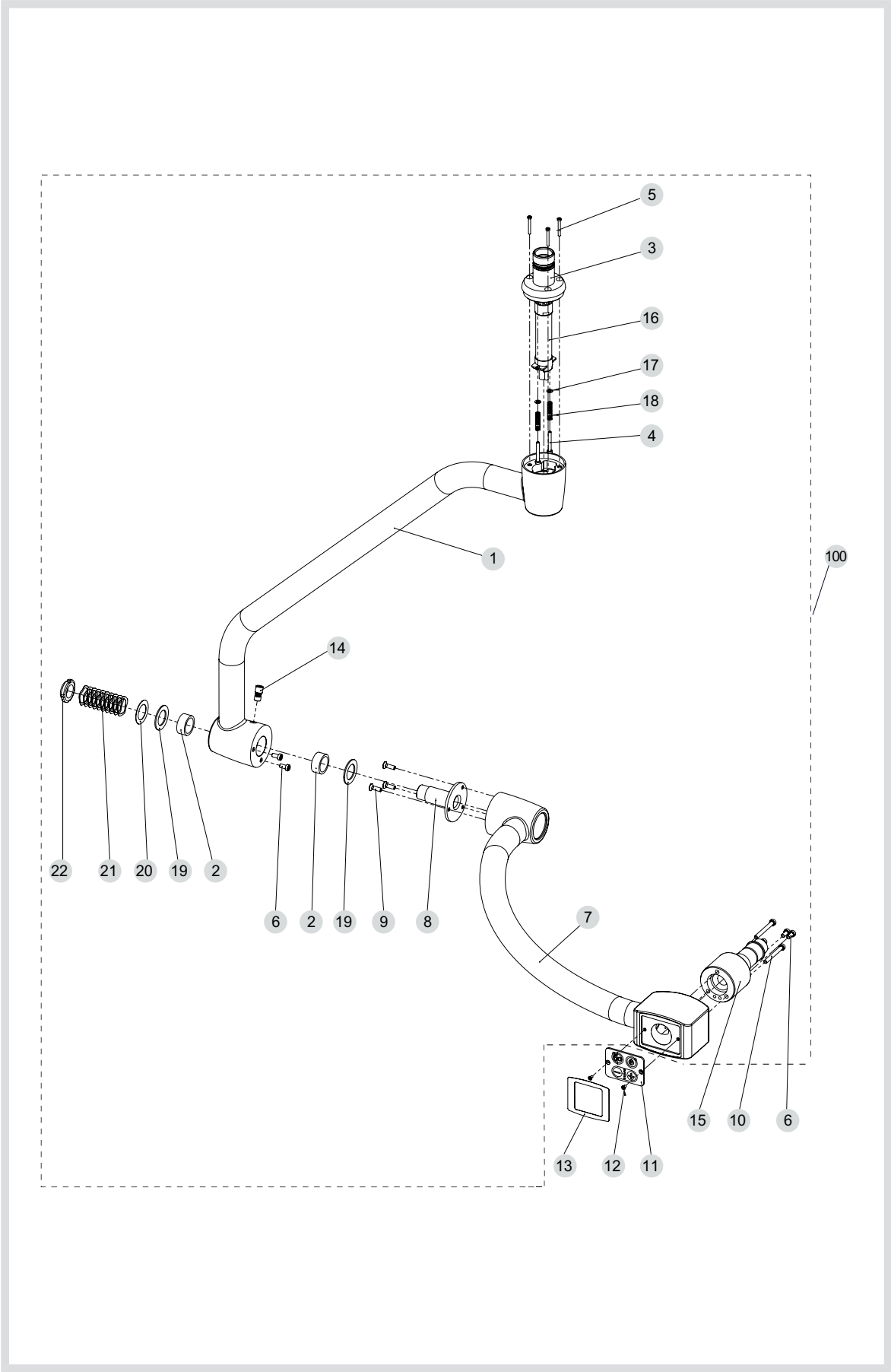
(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

RECOMMENDATION

(**) The fork Lexan panel kit 3 683 01 556 should be ordered separately.

DIAGRAM 22

PWD/HLED 700 BOOST VIDEO DF FORK



PARTS LIST 23

PWD/HLD 700 BOOST HD VIDEO DF FORK

5 683 20 801

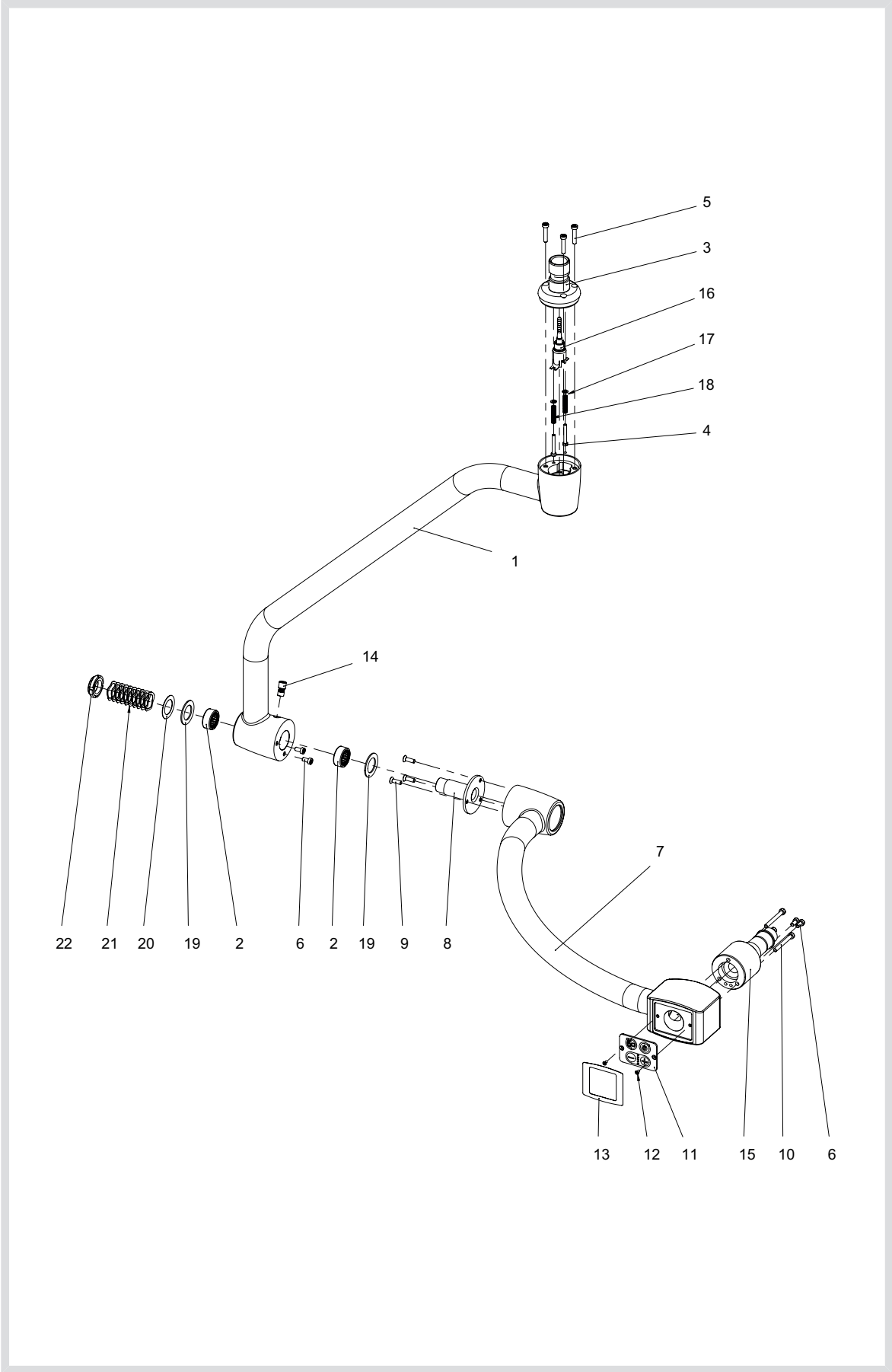
Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
11	5 683 10 915	Fork Lexan control panel	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 164	Lexan panel protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	5 668 31 78	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
	3 683 88 555	PWD/HLD DF fork + V2 lighthouse HD cable kit*	
16	5 677 05 121	PWD DF fork HD cable	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
13	5 683 01 164	Boost keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 23

PWD/HLD 700 BOOST HD VIDEO DF FORK



16.6 PWD 500 forks

PARTS LIST 24

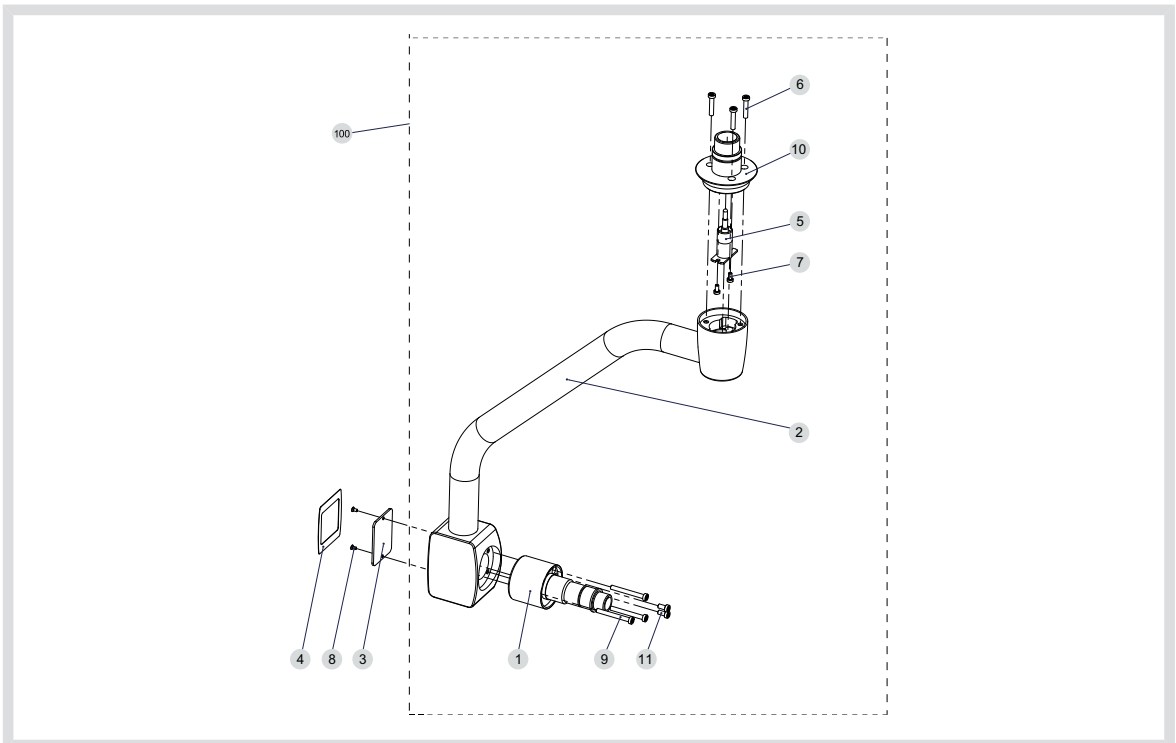
PWD/HLED 500 THREE-TRACK SF FORK

5 683 50 205

Ref.	Part number	Description	Qty
1	5 683 50 101	RAL 9016 lighthouse shaft	1
2	5 683 50 065	Painted SF fork	1
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 01 053	Fork control keypad	1
8	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
4	5 683 01 064	Keypad protective film	1
5	5 683 01 073	PWD three-track SF input cable*	1
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
10	5 683 01 131	ONDASPACE SF shaft	1
10	5 683 30 105	ACROBAT 2000 SF shaft	1
11	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
100	3 683 14 998	PWD 500 three-track SF fork S/A	1
	3 683 31 555	Kit of 10 Lexan stickers	
4	5 683 01 064	Keypad protective film	10

DIAGRAM 24

PWD/HLED 500 THREE-TRACK SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

PARTS LIST 25

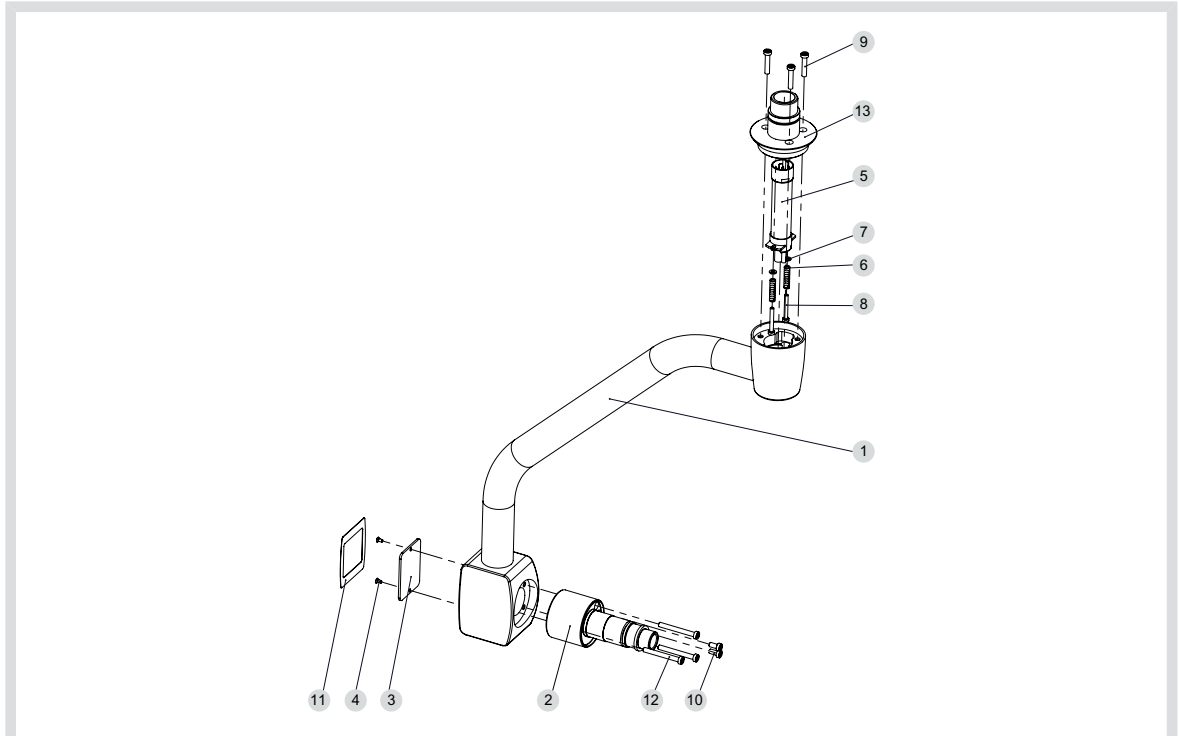
PWD/HLED 500 VIDEO SF FORK

5 683 50 206

Ref.	Part number	Description	Qty
1	5 683 50 065	Painted SF fork	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 01 053	Fork control keypad	1
4	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
11	5 683 01 064	Keypad protective film	1
5	5 683 50 504	Single fork video cable*	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 70 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 01 131	ONDASPACE SF shaft	1
13	5 683 30 105	ACROBAT 2000 SF shaft	1
	3 683 31 555	Kit of 10 Lexan stickers	
11	5 683 01 064	Keypad protective film	10

DIAGRAM 25

PWD/HLED 500 VIDEO SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

PARTS LIST 26

PWD/HLED 500 HD VIDEO SF FORK

5 683 20 802

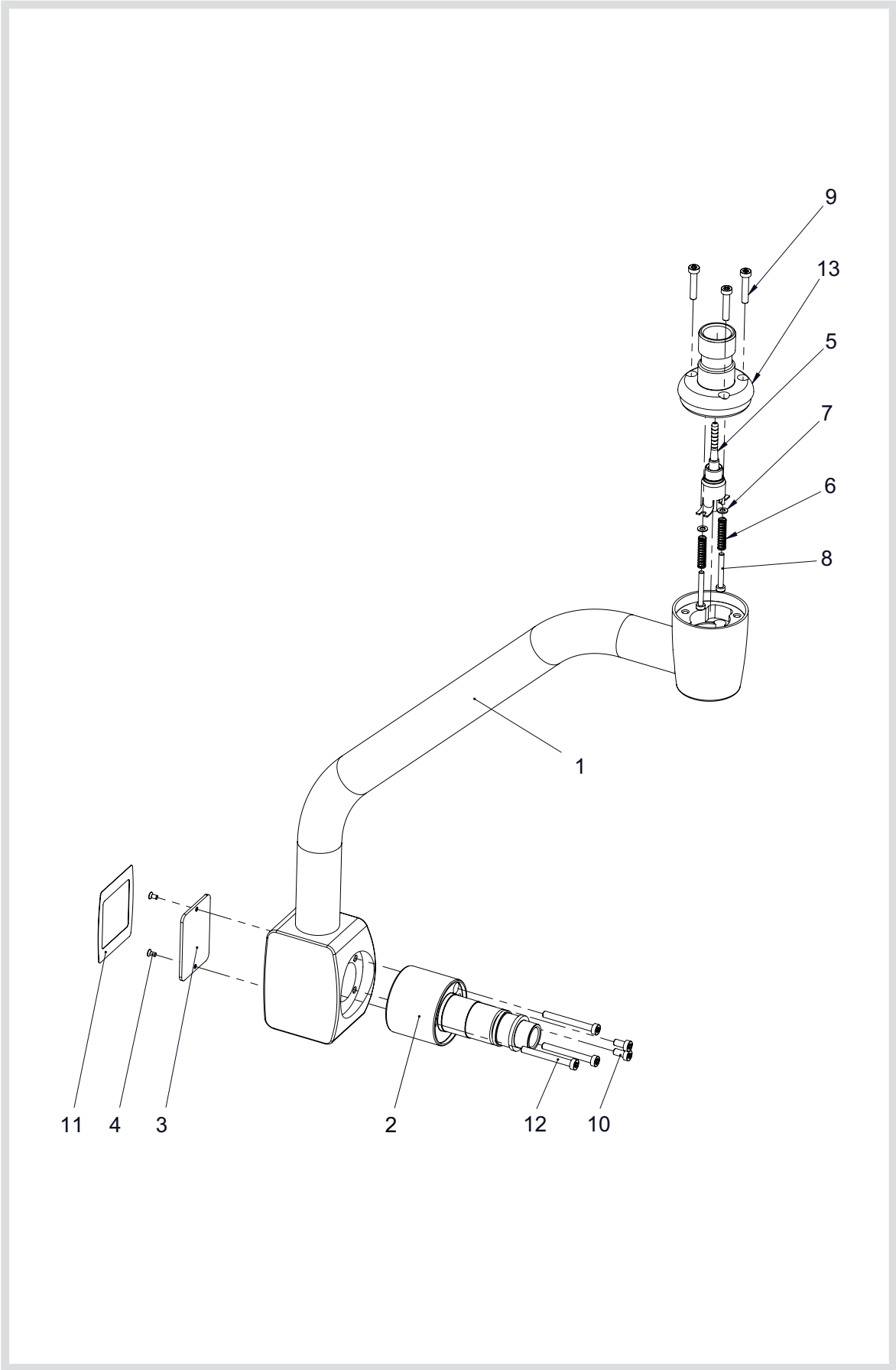
Ref.	Part number	Description	Qty
1	5 683 50 065	Painted SF fork	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 01 053	Fork control keypad	1
4	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
11	5 683 01 064	Keypad protective film	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 90 083	M4×12 low-profile Torx cheese screw, ISO 14580, class 8.8 zinc-plated steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
	3 683 89 555	SF fork + V2 lighthouse HD cable kit	
5	5 677 05 133	PWD SF fork HD cable*	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 31 555	Kit of 10 Lexan stickers	
11	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 26

PWD/HLED 500 HD VIDEO SF FORK



PARTS LIST 27

PWD/HLED 500 THREE-TRACK DF FORK

5 683 20 207

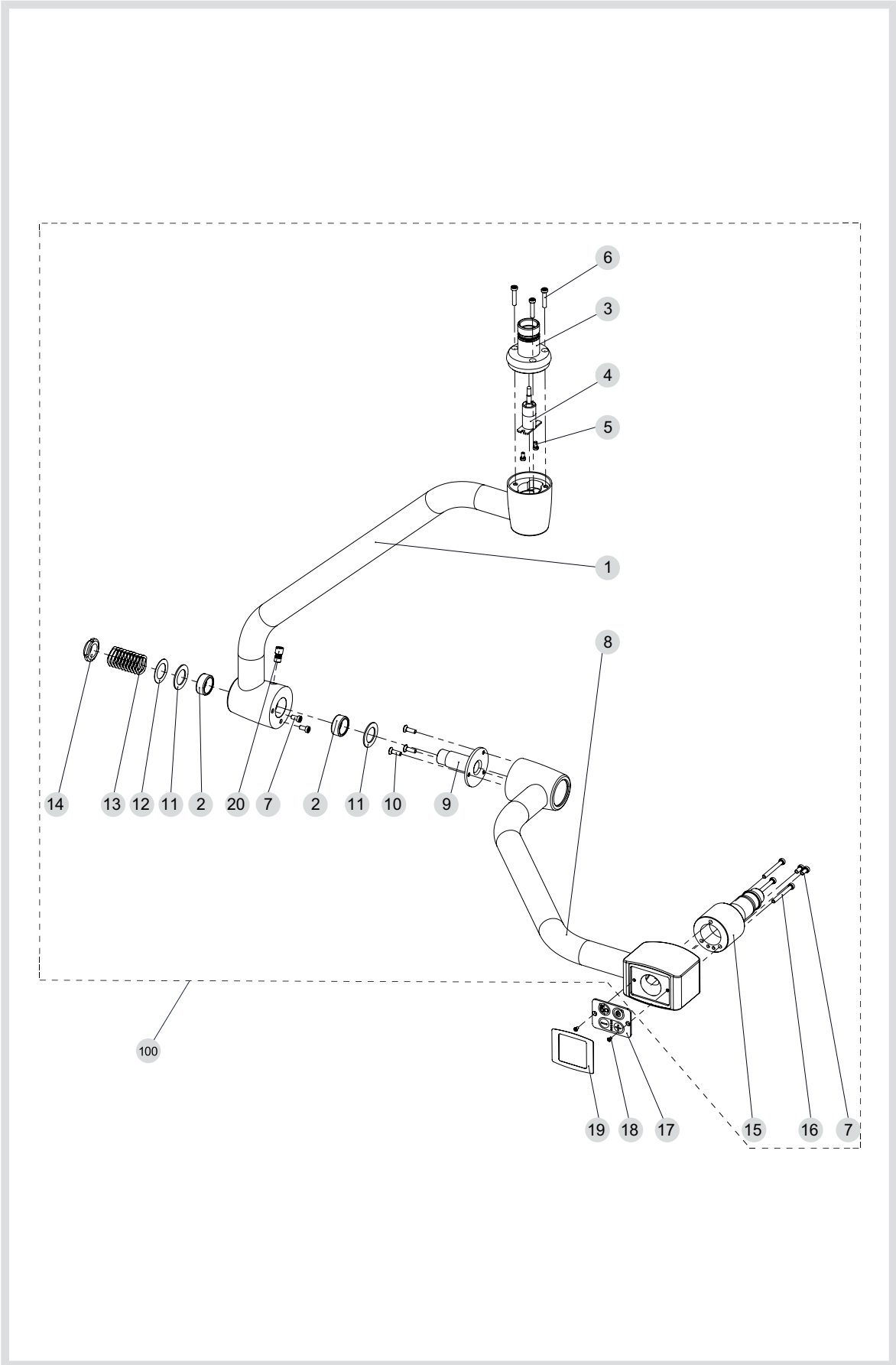
Ref.	Part number	Description	Qty
1	5 683 50 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	5 683 01 071	Three-track DF input cable*	1
5	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
8	5 683 50 065	Painted SF fork	1
9	5 683 01 116	Double-fork shaft, two bearings	1
10	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
11	5 683 01 124	Bearing thrust washer	2
12	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
13	6 029 96 001	Waved elastic washer	10
14	6 018 60 020	M20×1 slotted nut	1
15	5 683 50 101	RAL 9016 lighthead shaft	1
16	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
17	5 683 01 053	Fork control keypad	1
18	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
19	5 683 01 064	Keypad protective film	1
20	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
100	3 683 20 998	PWD 500 STD DF fork S/A	1
	3 683 31 555	Kit of 10 Lexan stickers	
19	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 27

PWD/HLED 500 THREE-TRACK DF FORK



PARTS LIST 28

PWD/HLED 500 VIDEO DF FORK

5 683 20 208

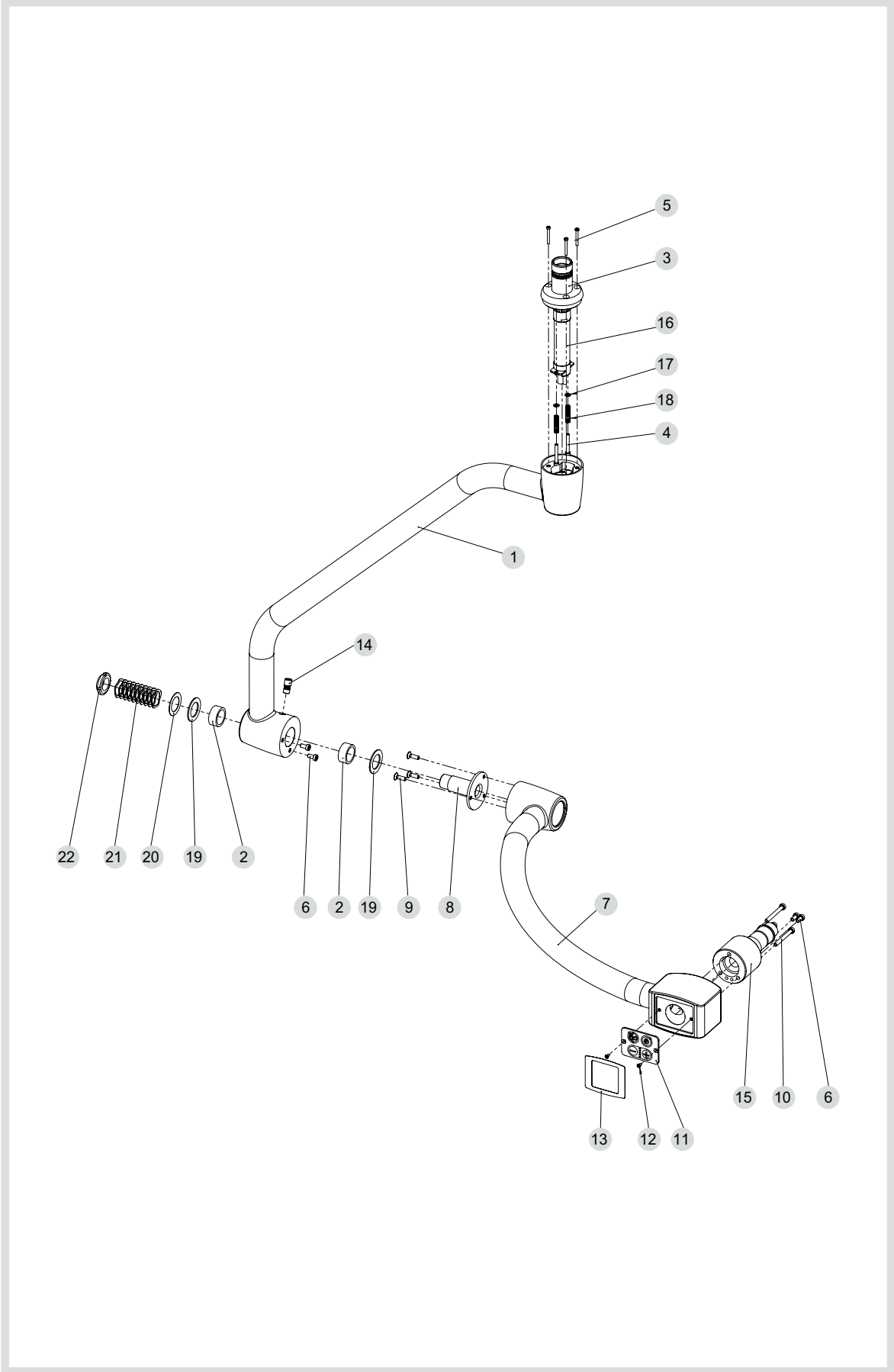
Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
11	5 683 01 053	Fork control keypad	1
12	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
13	5 683 01 064	Keypad protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 50 505	Double fork video cable (*)	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Lexan panel protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 28

PWD/HLED 500 VIDEO DF FORK



PARTS LIST 29

PWD/HLED 500 HD VIDEO DF FORK

5 683 20 800

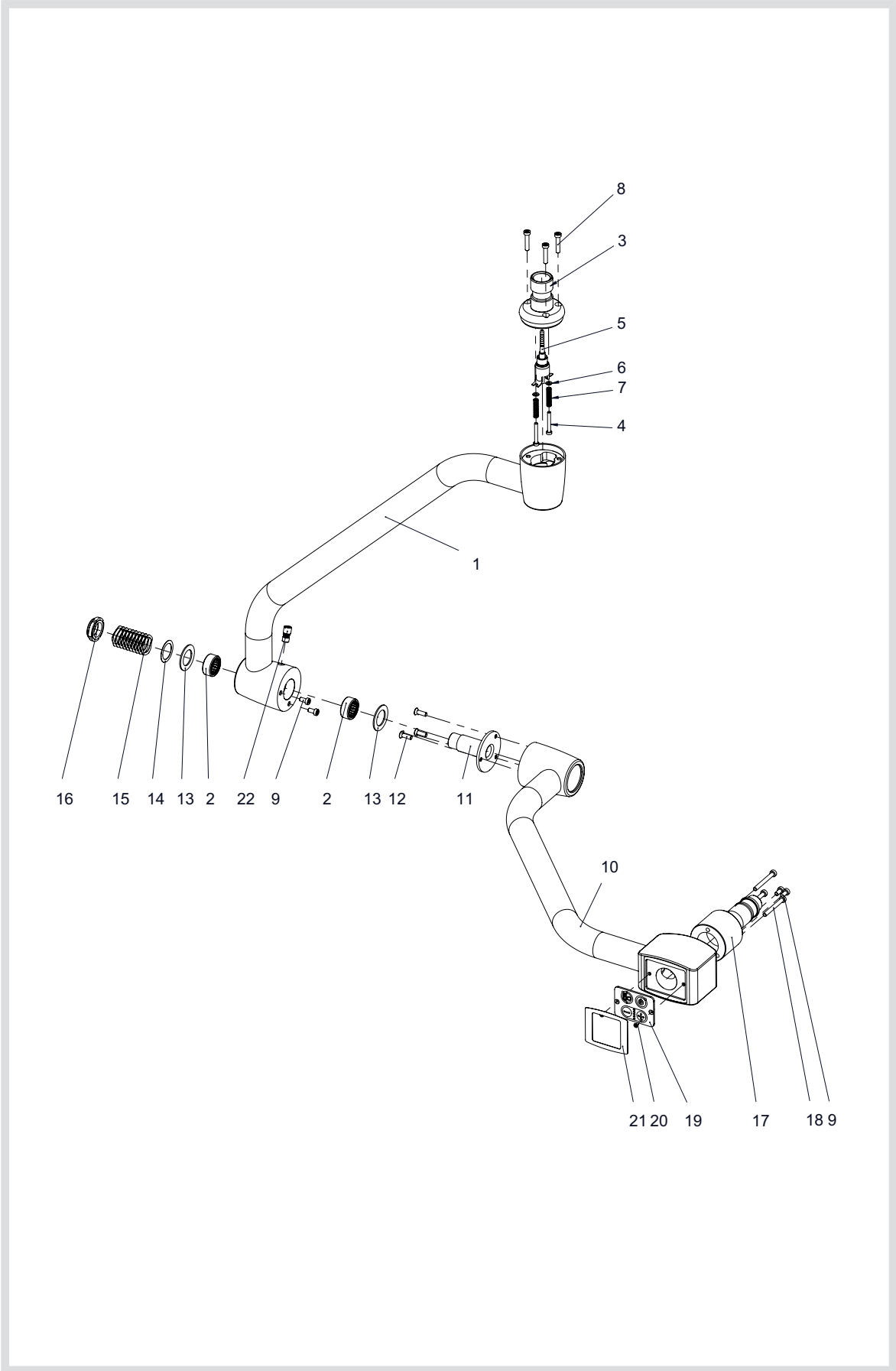
Ref.	Part number	Description	Qty
1	5 683 50 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
4	6 009 90 083	M4×12 hexalobular socket cheese head screw, zinc-plated steel, class 8.8	2
6	6 023 20 842	Z4 washer, stainless steel	2
7	5 678 01 102	Cam spring	2
8	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
9	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
10	5 683 50 065	Painted SF fork	1
11	5 683 30 104	Acrobat 2000 PWD 500 shaft	1
12	6 009 90 512	M6×12 hexalobular socket countersunk head screw, stainless steel	3
13	5 683 01 124	Bearing thrust washer	2
14	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
15	6 029 96 001	Waved elastic washer	10
16	6 018 60 020	M20×1 slotted nut	1
17	5 683 50 101	RAL 9016 lighthouse shaft	1
18	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	Fork dimmer lexan panel kit	
19	5 683 01 053	Lighthouse control Lexan panel	1
20	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
21	5 683 01 064	Lexan panel protective film	1
22	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
	3 683 88 555	PWD/HLD DF fork + V2 lighthouse HD cable kit*	
5	5 677 05 121	PWD DF fork HD cable	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 31 555	Kit of 10 Lexan stickers	
13	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 29

PWD/HLED 500 HD VIDEO DF FORK



16.7 PWD 500 Boost forks

PARTS LIST 30

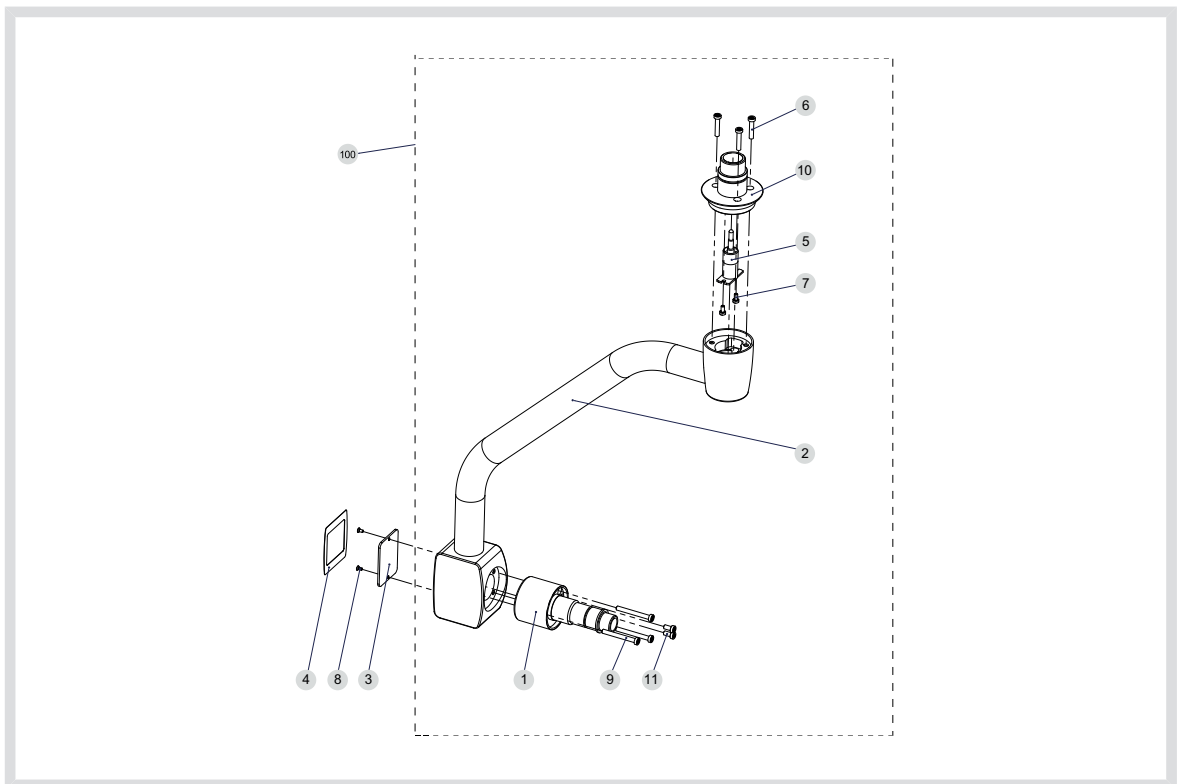
PWD/HLED 500 BOOST THREE-TRACK SF FORK

5 683 50 205

Ref.	Part number	Description	Qty
1	5 683 50 101	RAL 9016 lighthouse shaft	1
2	5 683 50 065	Painted SF fork	1
	3 683 29 556	PWD/HLD Boost fork Lexan panel kit	
3	5 683 10 915	Fork Lexan control panel	1
8	6 009 90 115	M3×6 hexalobular socket countersunk head screw, A2 stainless steel	2
4	5 683 01 164	Lexan panel protective film	1
5	5 683 01 073	PWD three-track SF input cable*	1
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
10	5 683 01 131	SF shaft	1
11	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
100	3 683 14 998	PWD 500 three-track SF fork S/A*	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
4	5 683 01 164	Lexan Boost protective film	10

DIAGRAM 30

PWD/HLED 500 BOOST THREE-TRACK SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

PARTS LIST 31

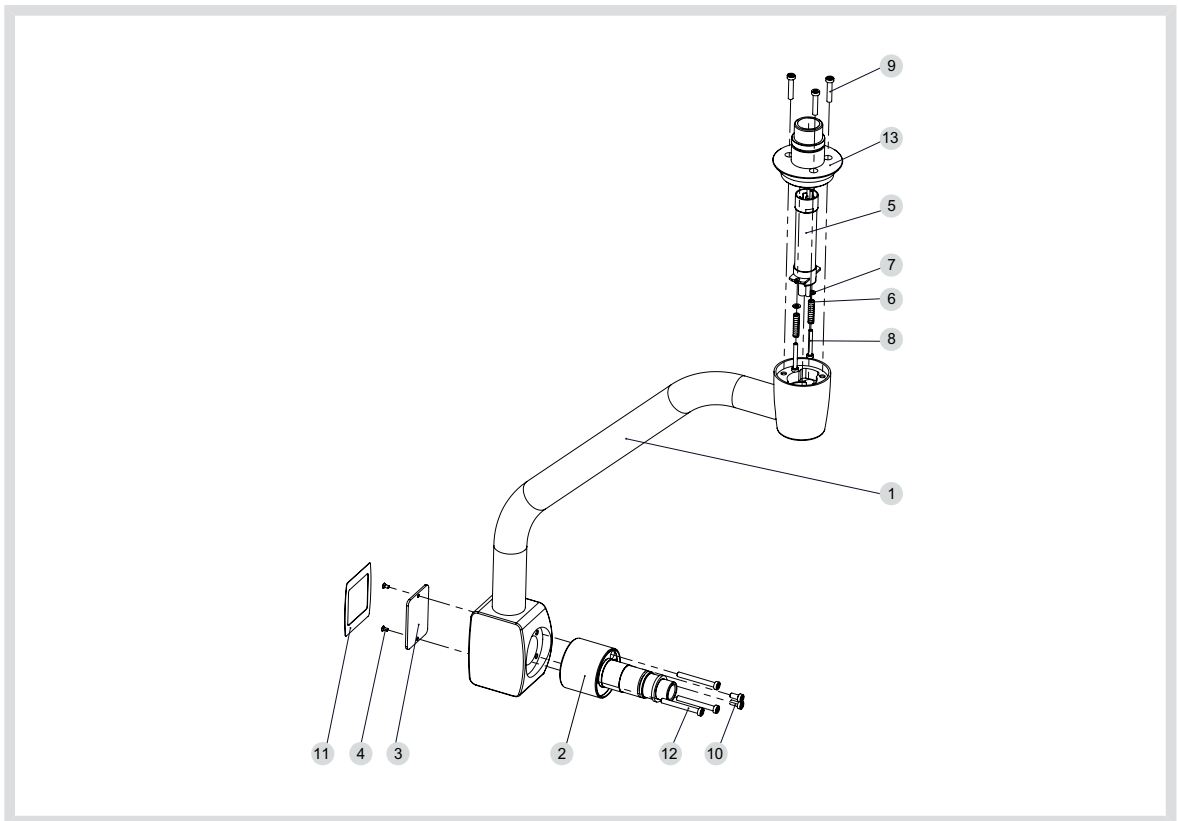
PWD/HLED 500 BOOST VIDEO SF FORK

5 683 20 803

Ref.	Part number	Description	Qty
1	5 683 50 065	Painted SF shaft	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
3	5 683 10 915	Fork Lexan control panel	1
4	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
11	5 683 11 064	Lexan panel protective film	1
5	5 683 50 504	Single fork video cable*	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 01 131	ONDASPACE SF shaft	1
13	5 683 30 105	ACROBAT 2000 SF shaft	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
11	5 683 01 164	Lexan Boost protective film	10

DIAGRAM 31

PWD/HLED 500 BOOST VIDEO SF FORK



RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

PARTS LIST 32

PWD/HLED 500 BOOST HD VIDEO SF FORK

5 683 20 802

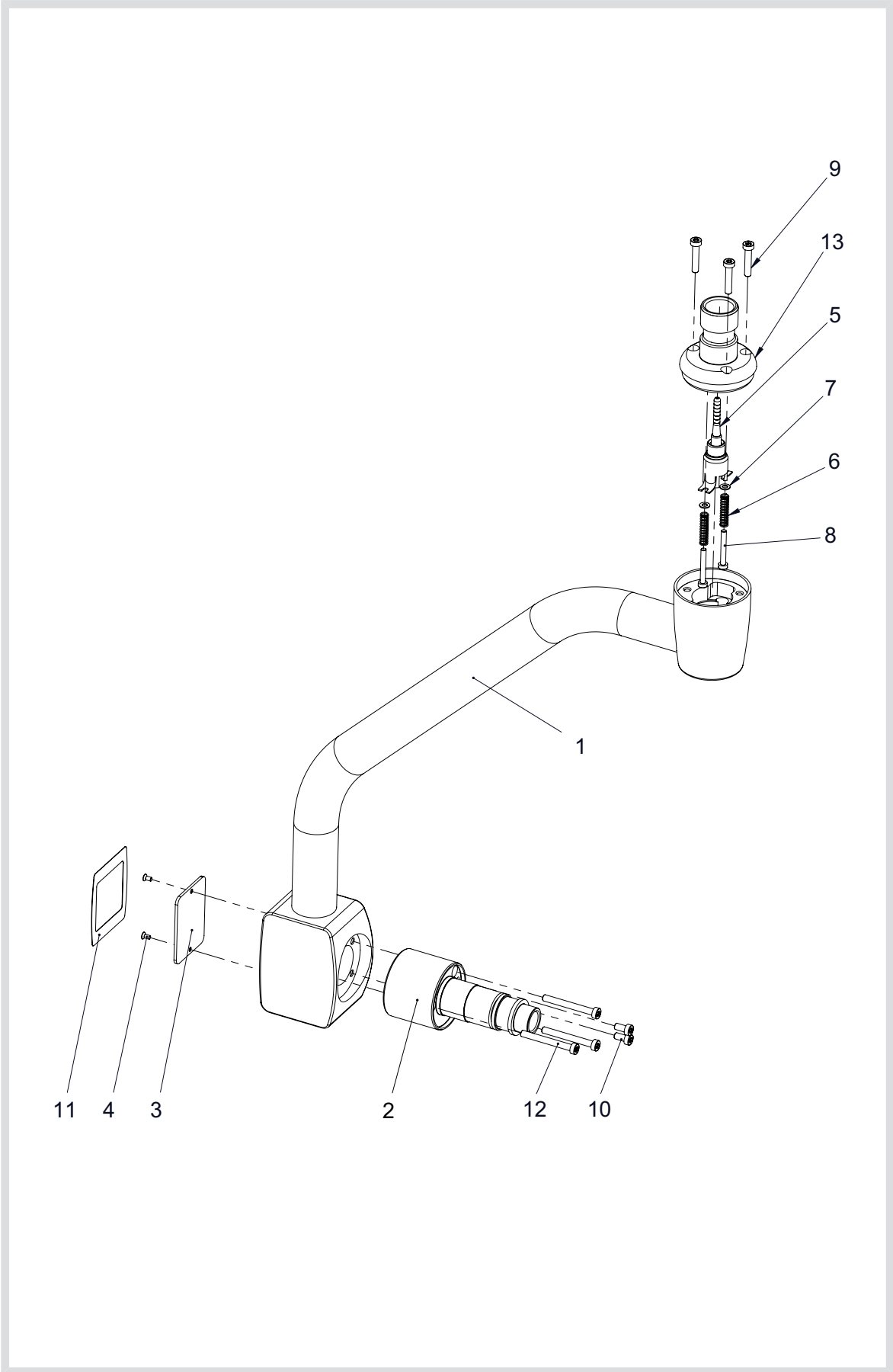
Ref.	Part number	Description	Qty
1	5 683 50 065	Painted SF fork	1
2	5 683 50 101	RAL 9016 lighthouse shaft	1
	3 683 01 556	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 10 915	Fork Lexan control panel	1
4	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
11	5 683 01 064	Lexan panel protective film	1
6	5 678 01 102	Cam spring	2
7	6 023 20 842	Z4 washer, stainless steel	2
8	6 009 90 083	M4×12 low-profile Torx cheese screw, ISO 14580, class 8.8 zinc-plated steel	2
9	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
12	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
13	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
	3 683 89 555	SF fork + V2 lighthouse HD cable kit*	
5	5 677 05 133	PWD SF fork HD cable*	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
11	5 683 01 164	Lexan Boost protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 32

PWD/HLED 500 BOOST HD VIDEO SF FORK



PARTS LIST 33

PWD/HLED 500 BOOST THREE-TRACK DF FORK

5 683 20 207

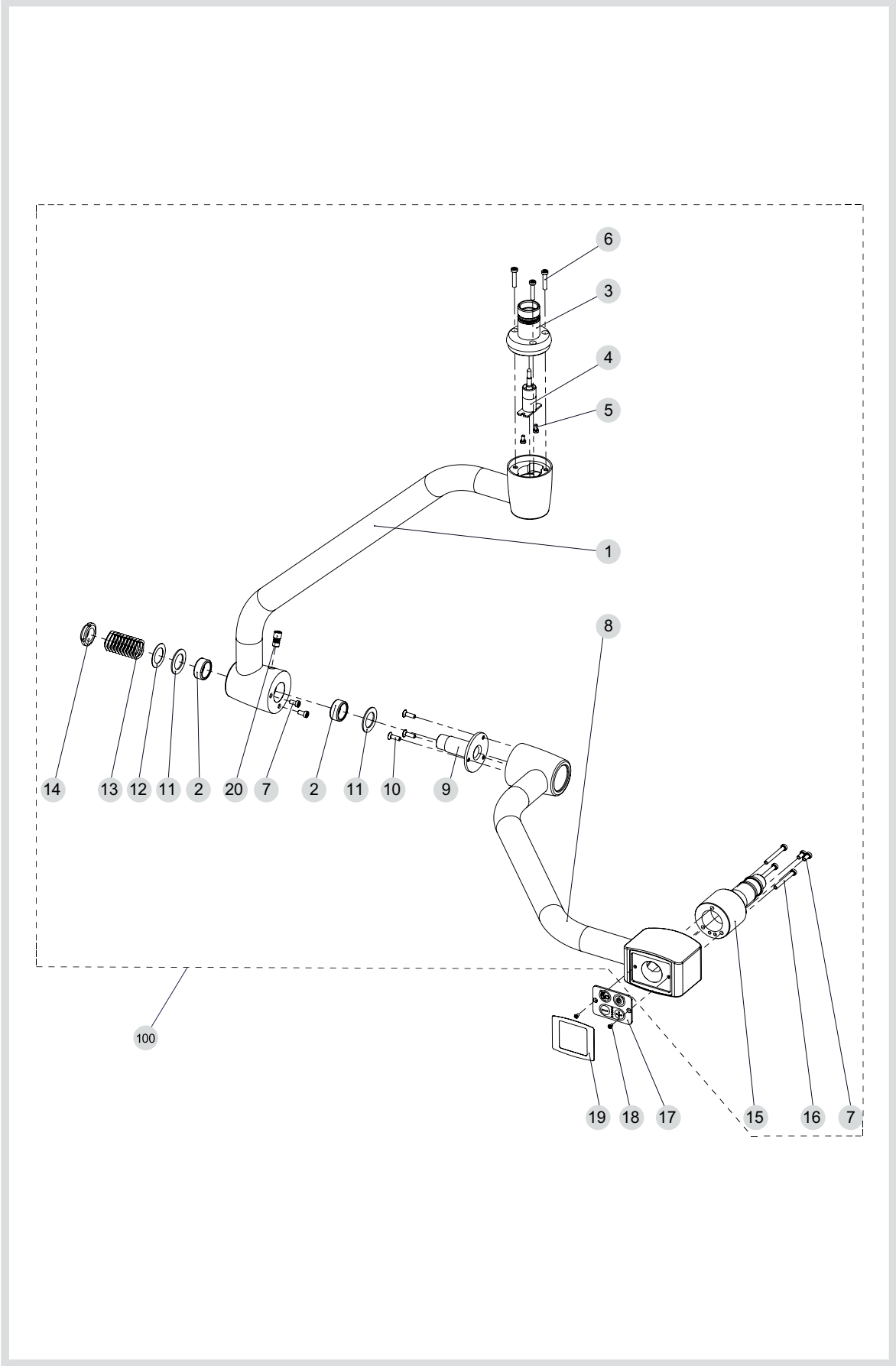
Ref.	Part number	Description	Qty
1	5 683 50 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	5 683 01 071	Three-track DF input cable*	1
5	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
8	5 683 50 065	Painted SF fork	1
9	5 683 01 116	Double-fork shaft, two bearings	1
10	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
11	5 683 01 124	Bearing thrust washer	2
12	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
13	6 029 96 001	Waved elastic washer	10
14	6 018 60 020	M20×1 slotted nut	1
15	5 683 50 101	RAL 9016 lighthouse shaft	1
16	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
17	5 683 10 915	Fork Lexan control panel	1
18	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
19	5 683 01 164	Lexan panel protective film	1
20	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
100	3 683 20 998	PWD 500 STD DF fork S/A	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
19	5 683 01 164	Lexan Boost protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 33

PWD/HLED 500 BOOST THREE-TRACK DF FORK



PARTS LIST 34

PWD/HLED 500 BOOST VIDEO DF FORK

5 683 20 208

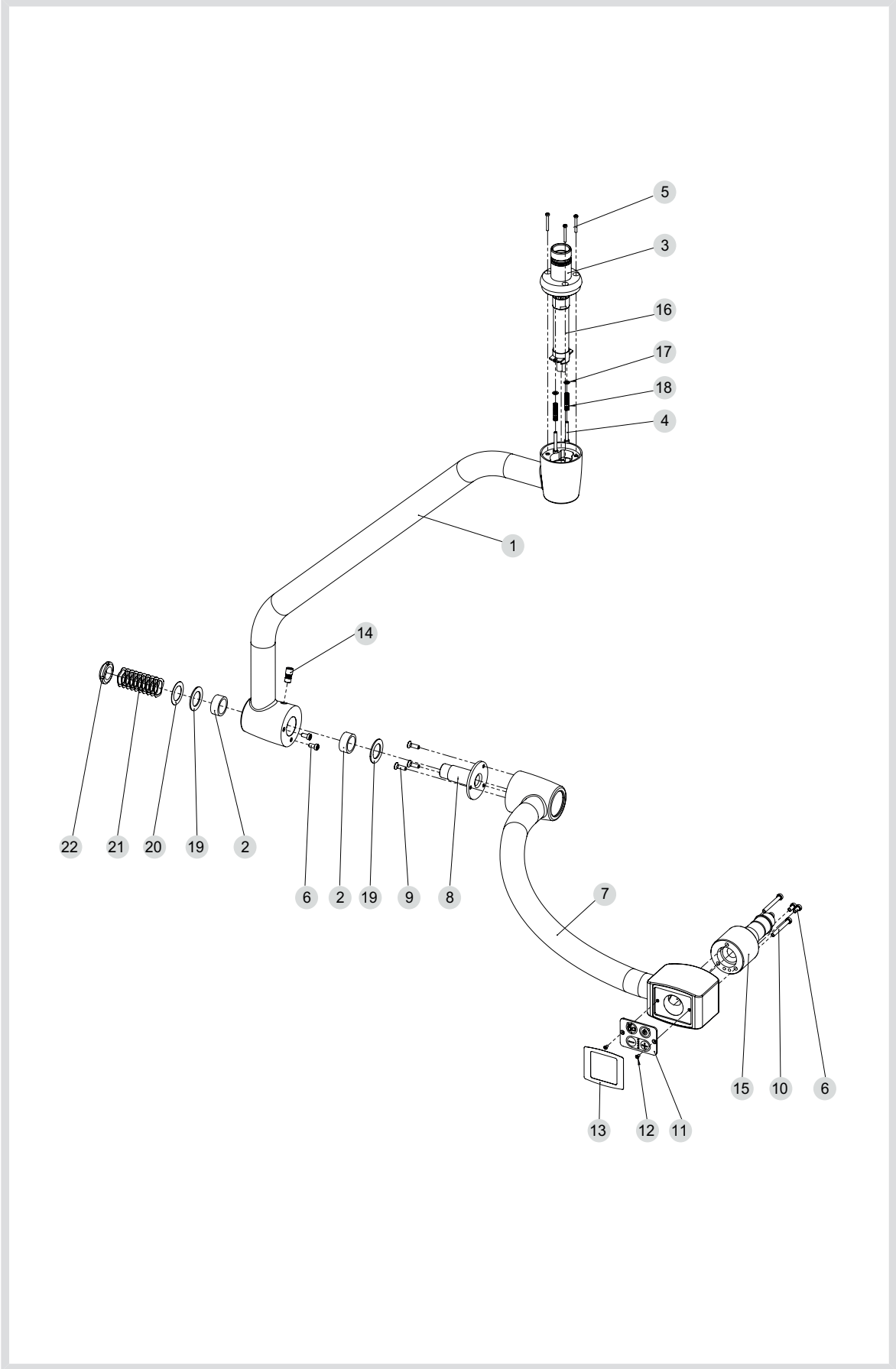
Ref.	Part number	Description	Qty
1	5 683 01 119	Two-bearing DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	DF 2000 fork end cap	1
4	6 009 50 430	M4×30 hexalobular socket cheese head screw, stainless steel	2
5	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
6	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
7	5 683 01 034	SF fork	1
8	5 683 01 116	Double-fork shaft, two bearings	1
9	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
10	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
11	5 683 10 915	Fork Lexan control panel	1
12	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
13	5 683 01 164	Lexan panel protective film	1
14	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
15	5 683 01 033	SF fork shaft	1
16	5 683 50 505	Double fork video cable (*)	1
17	6 023 20 842	Z4 washer, stainless steel	2
18	5 678 01 102	Cam spring	2
19	5 683 01 124	Bearing thrust washer	2
20	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
21	6 029 96 001	Waved elastic washer	10
22	6 018 60 020	M20×1 slotted nut	1
	3 683 02 556	Kit of 10 Lexan stickers	
13	5 683 01 164	Lexan panel protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 34

PWD/HLED 500 BOOST VIDEO DF FORK



PARTS LIST 35

PWD/HLD 500 BOOST HD VIDEO DF FORK

5 683 20 800

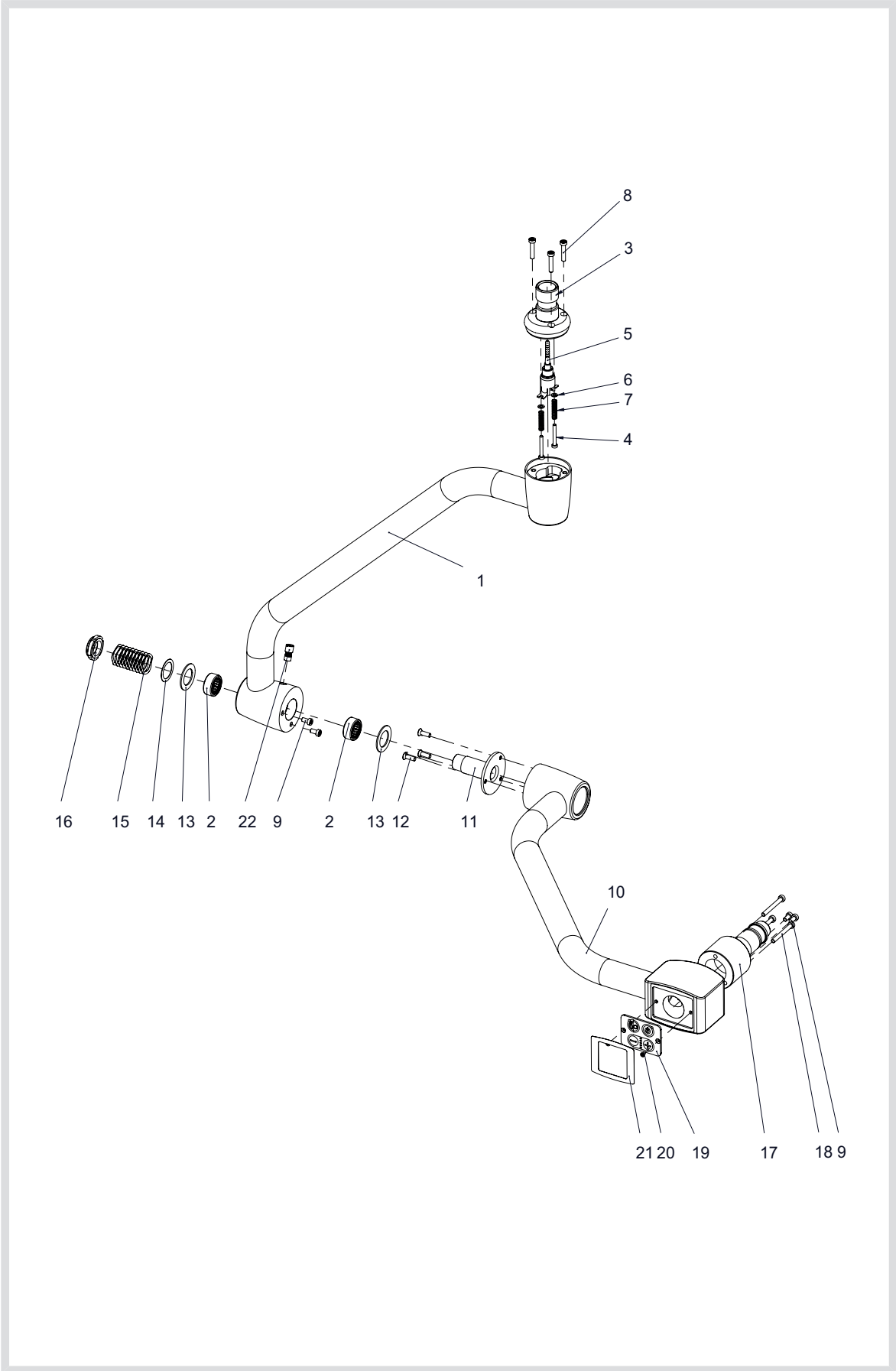
Ref.	Part number	Description	Qty
1	5 683 50 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
4	6 009 90 083	M4×12 hexalobular socket cheese head screw, zinc-plated steel, class 8.8	2
6	6 023 20 842	Z4 washer, stainless steel	2
7	5 678 01 102	Cam spring	2
8	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
9	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
10	5 683 50 065	Painted SF fork	1
11	5 683 30 104	Acrobat 2000 PWD 500 shaft	1
12	6 009 90 512	M6×12 hexalobular socket countersunk head screw, stainless steel	3
13	5 683 01 124	Bearing thrust washer	2
14	5 668 31 78	Adjusting ring 22 × 30 × 0.5 mm	1
15	6 029 96 001	Waved elastic washer	10
16	6 018 60 020	M20×1 slotted nut	1
17	5 683 50 101	RAL 9016 lighthouse shaft	1
18	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
19	5 683 10 915	Fork Lexan control panel	1
20	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
21	5 683 01 164	Lexan panel protective film	1
22	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
	3 683 88 555	PWD/HLD DF fork + V2 lighthouse HD cable kit*	
5	5 677 05 121	PWD DF fork HD cable	1
	5 677 05 122	Lighthouse HD video cable (not shown)	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
21	5 683 01 164	Boost keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 35

PWD/HLD 500 BOOST HD VIDEO DF FORK



16.8 PWD 300 forks

PARTS LIST 36

PWD/HLED 300 THREE-TRACK SF FORK

5 683 30 205

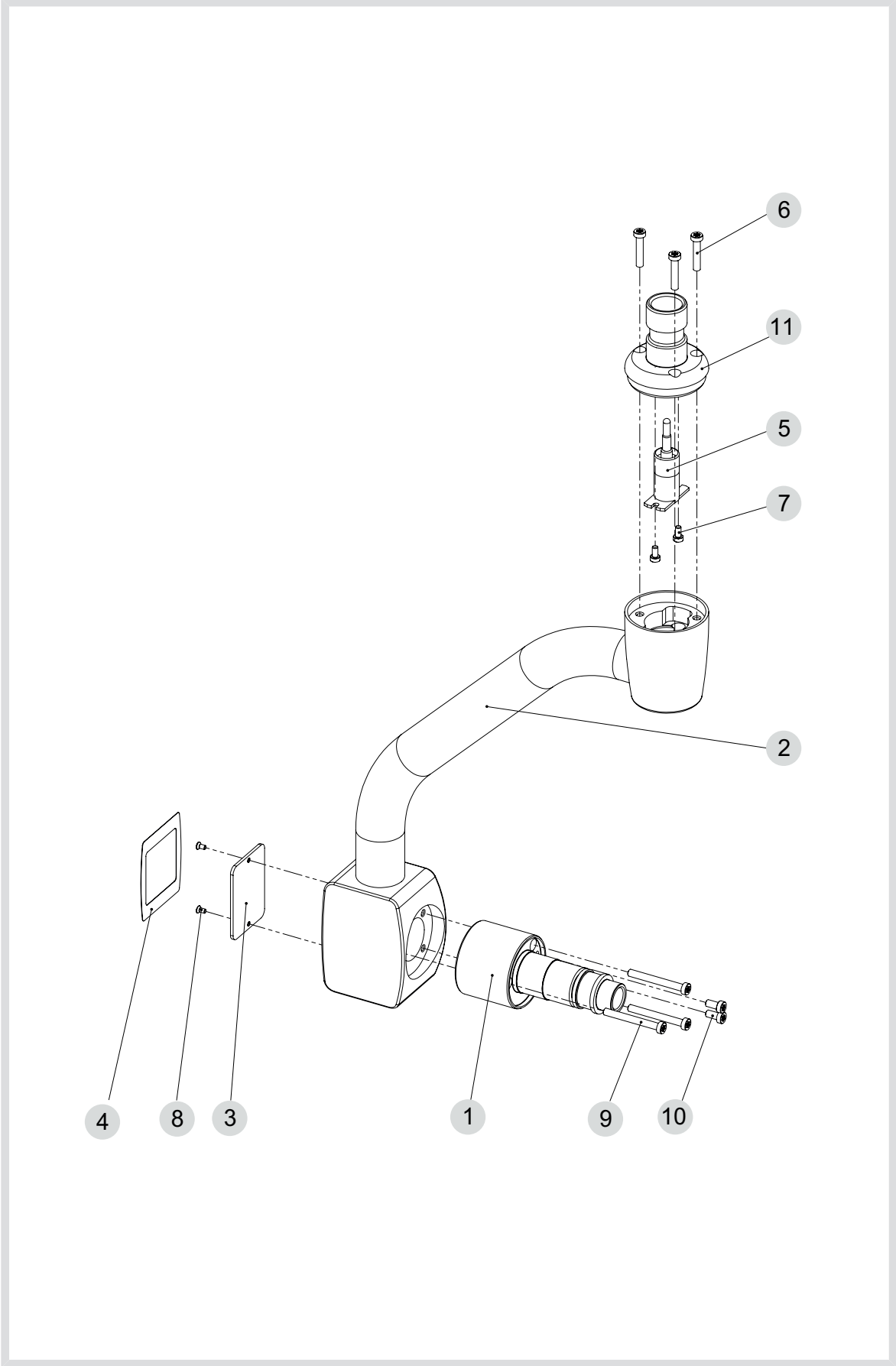
Ref.	Part number	Description	Qty
1	5 683 50 101	RAL 9016 lighthouse shaft	1
2	5 683 30 065	Painted SF fork	1
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
3	5 683 01 053	Fork control keypad	1
8	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
4	5 683 01 064	Keypad protective film	1
5	5 683 01 073	PWD three-track SF input cable*	1
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
11	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
	3 683 31 555	Kit of 10 Lexan stickers	
4	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 36

PWD/HLED 300 THREE-TRACK SF FORK



PARTS LIST 37

PWD/HLED 300 THREE-TRACK DF FORK

5 683 30 207

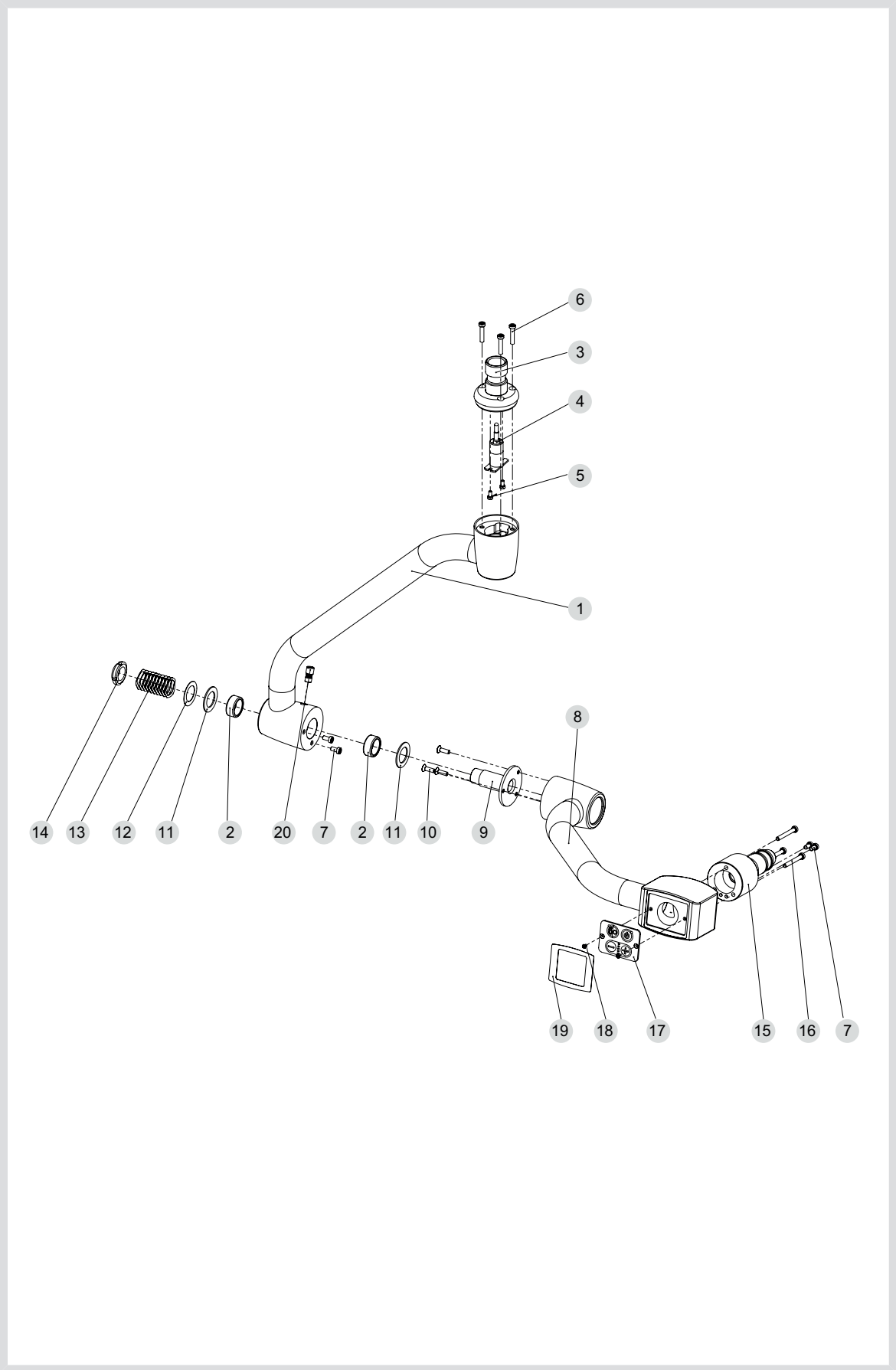
Ref.	Part number	Description	Qty
1	5 683 30 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
4	5 683 01 071	Three-track DF input cable*	1
5	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
8	5 683 50 065	Painted SF fork	1
9	5 683 01 116	Double-fork shaft, two bearings	1
10	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
11	5 683 01 124	Bearing thrust washer	2
12	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
13	6 029 96 001	Waved elastic washer	10
14	6 018 60 020	M20×1 slotted nut	1
15	5 683 50 101	RAL 9016 lighthouse shaft	1
16	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
17	5 683 01 053	Fork control keypad	1
18	6 009 90 115	M3×6 hexalobular socket countersunk head screw, stainless steel	2
19	5 683 01 064	Keypad protective film	1
20	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
	3 683 31 555	Kit of 10 Lexan stickers	
19	5 683 01 064	Keypad protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 31 555.

DIAGRAM 37

PWD/HLED 300 THREE-TRACK DF FORK



16.9 PWD 300 Boost forks

PARTS LIST 38

PWD/HLED 300 BOOST THREE-TRACK SF FORK

5 683 30 205

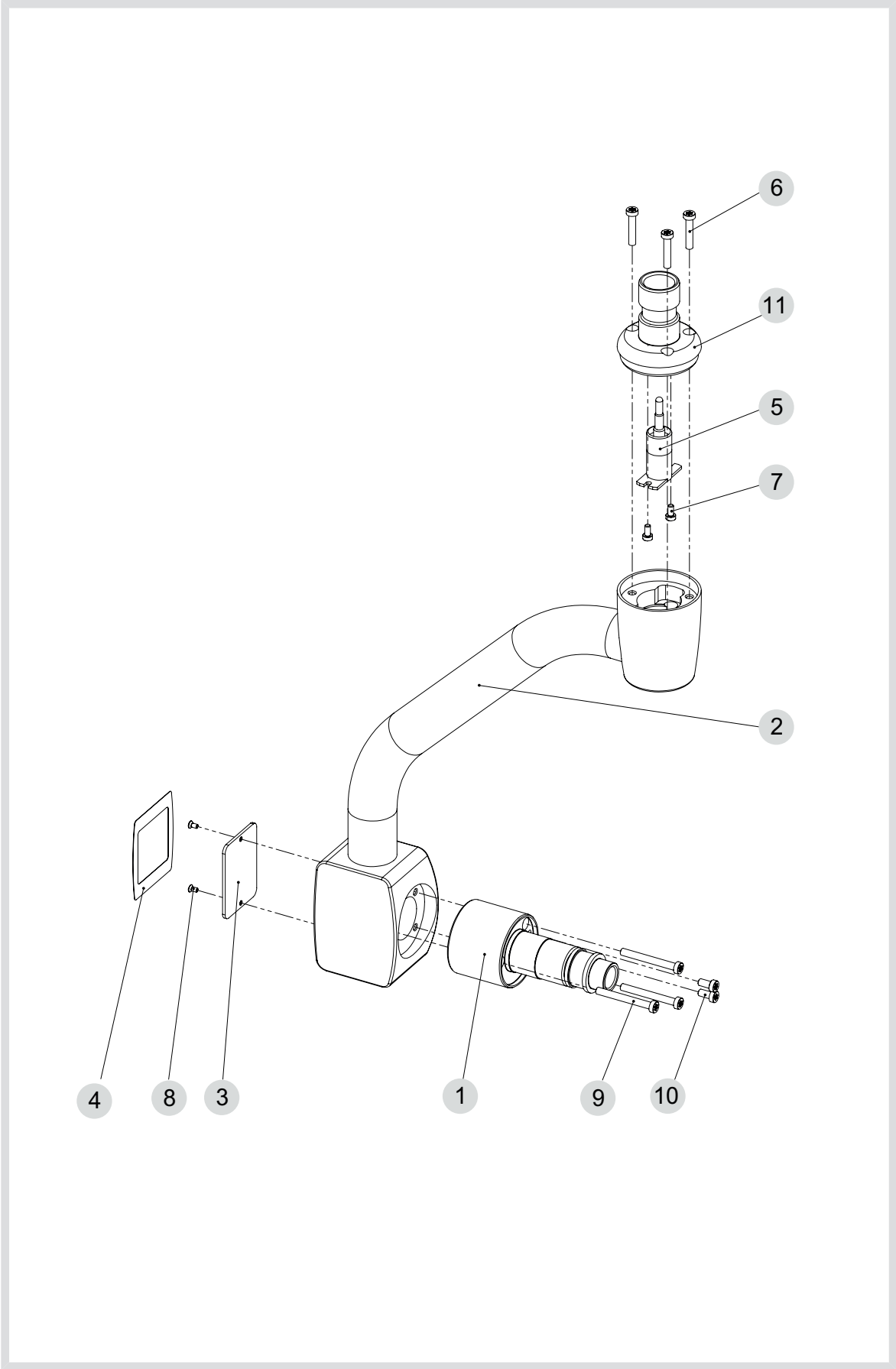
Ref.	Part number	Description	Qty
1	5 683 50 101	RAL 9016 lighthouse shaft	1
2	5 683 30 065	Painted SF fork	1
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
3	5 683 10 915	Fork Lexan control panel	1
8	6 009 90 115	M3×6 hexalobular socket countersunk head screw, A2 stainless steel, ISO 14581	2
4	5 683 01 164	Lexan panel protective film	1
5	5 683 01 073	PWD three-track SF input cable*	1
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
9	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
10	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	2
11	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
4	5 683 01 164	Lexan Boost protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 38

PWD/HLED 300 BOOST THREE-TRACK SF FORK



PARTS LIST 39

PWD/HLED 300 BOOST THREE-TRACK DF FORK

5 683 30 207

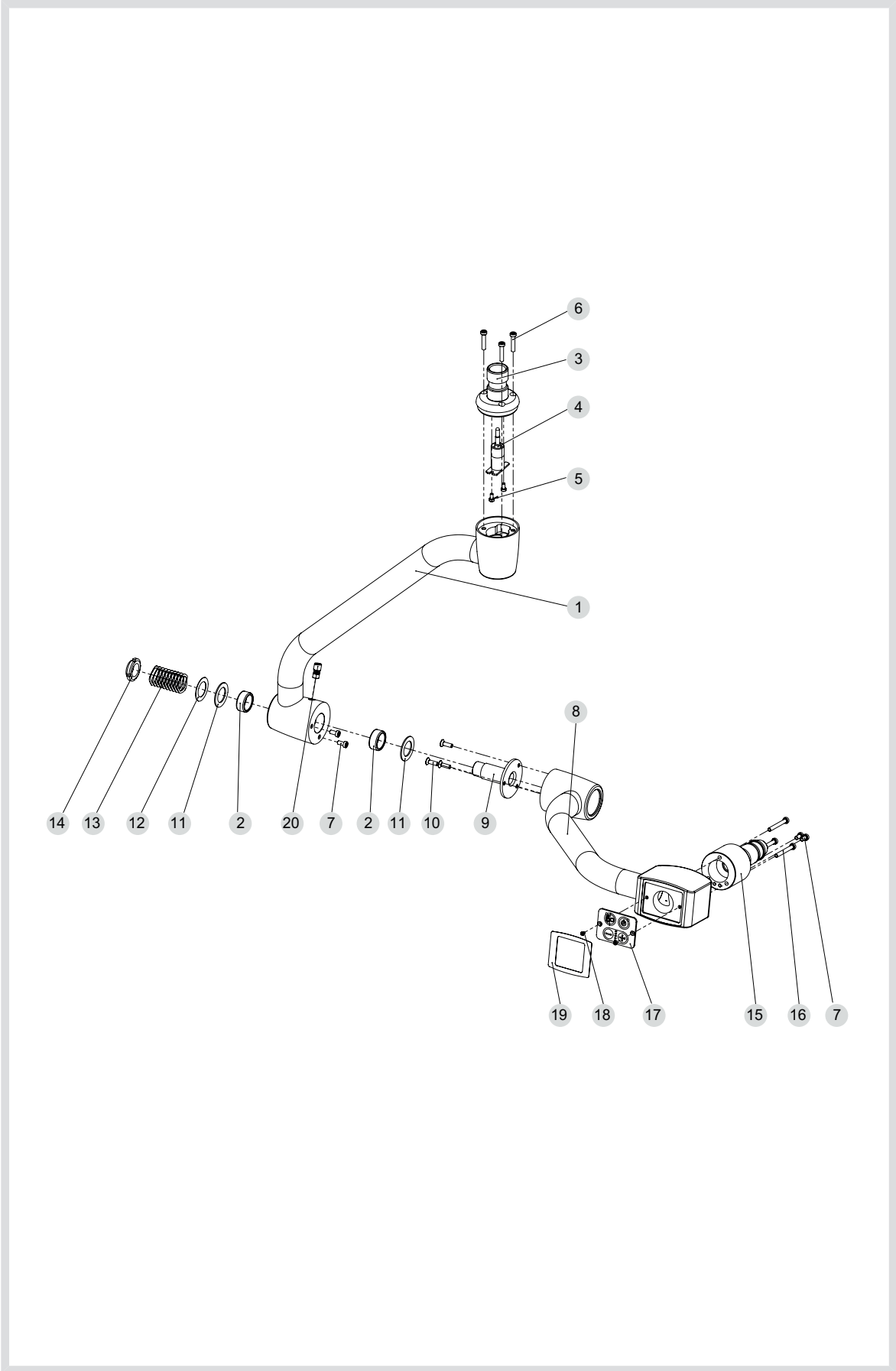
Ref.	Part number	Description	Qty
1	5 683 50 075	Painted DF fork	1
2	6 236 22 006	Needle bush HK 2212	2
3	5 683 30 105	Acrobat 2000 SF three-track & DF three & five-track shaft - PWD	1
4	5 683 01 071	Three-track DF input cable*	1
5	6 012 40 408	M4×8 hexalobular socket cheese head screw, stainless steel	2
6	6 009 70 525	M5×25 hexalobular socket cheese head screw, stainless steel	3
7	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	4
8	5 683 30 065	Painted SF fork	1
9	5 683 01 116	Double-fork shaft, two bearings	1
10	6 009 60 516	M5×16 hexalobular socket countersunk head screw, stainless steel	3
11	5 683 01 124	Bearing thrust washer	2
12	566 53 178	Adjusting ring 22 × 30 × 0.5 mm	1
13	6 029 96 001	Waved elastic washer	10
14	6 018 60 020	M20×1 slotted nut	1
15	5 683 50 101	RAL 9016 lighthouse shaft	1
16	6 009 70 545	M5×45 hexalobular socket cheese head screw, stainless steel	3
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
17	5 683 10 915	Fork Lexan control panel	1
18	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
19	5 683 01 164	Lexan panel protective film	1
20	5 683 01 046	M10×100 brake screw (L: 20 mm)	1
	3 683 02 556	Kit of 10 Lexan Boost stickers	
19	5 683 01 164	Lexan Boost protective film	10

RECOMMENDATION

(*) Order the kit of 10 Lexan stickers, ref. 3 683 02 556.

DIAGRAM 39

PWD/HLED 300 BOOST THREE-TRACK DF FORK



16.10 PWD 700 lighthouse

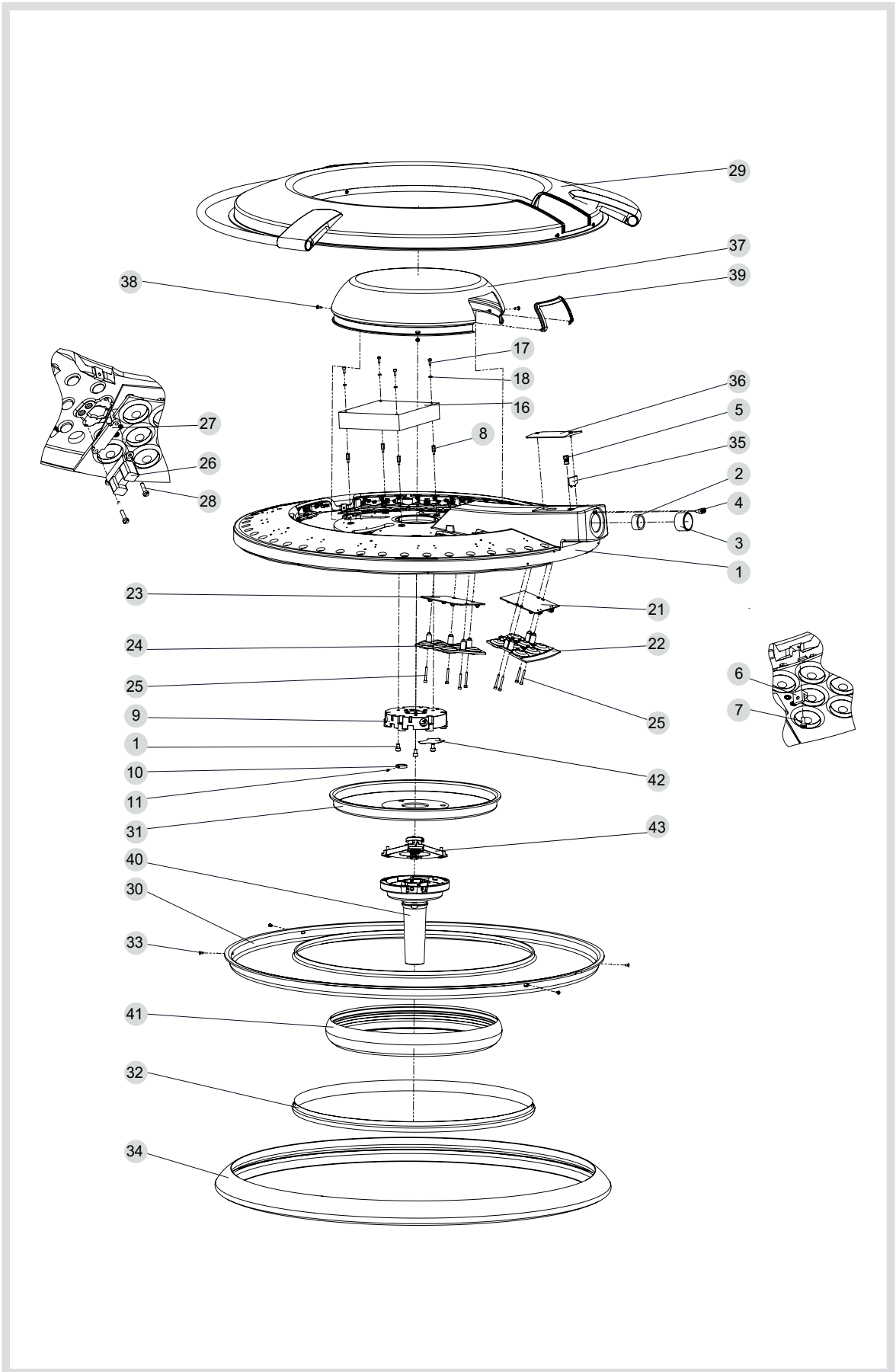
PARTS LIST 40

PWD 700 LIGHTHEAD (WITH AIM OPTION)

Ref.	Part number	Description	Qty
1	5 683 01 144	Painted lighthouse structure, diam. 700 mm	1
2	6 236 22 006	Needle bush HK 2212	2
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 005 30 508	M5×8 socket head cap screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	6 007 80 308	M3×8 low-profile socket head cap screw, stainless steel	7
9	5 678 01 008	Cam mounting plate	1
10	5 678 01 087	Viewing washer	1
11	6 006 80 306	M3×6 socket head cup point screw, stainless steel	1
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
8	6 951 00 532	M3-10 hexagonal M/F spacer	4
16	5 683 01 500	Control board	1
17	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
18	6 024 20 306	D3 external tooth lock washer, stainless steel	4
19	5 683 01 069	Centre LED circuit cable	1
20	5 683 01 806	Assembled ambient LED	1
	3 683 03 555	PWD peripheral LED module kit	
21	5 683 01 138	PP1 peripheral LED circuit	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 04 555	PWD peripheral lens kit	
22	5 683 01 113	Peripheral lens module	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 02 555	PWD centre LED module kit	
23	5 683 01 137	PP1 centre LED circuit	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 01 555	PWD centre lens kit	
24	5 683 01 111	Centre lens module	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 09 555	PowerLED head detection kit	
26	5 683 01 141	Sharp 2Y0D02 sensor + connector	8
28	6 009 30 320	M3×20 slotted head screw, nylon	2
27	5 683 01 210	Shim for AIM sensor	8
29	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see Parts list 29)	1
	3 683 05 555	PWD underside kit	
30	5 683 01 020	Outer underside	1
31	5 683 01 021	Central underside	1
33	6 009 90 115	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4

DIAGRAM 40

PWD 700 LIGHTHEAD (WITH AIM OPTION)



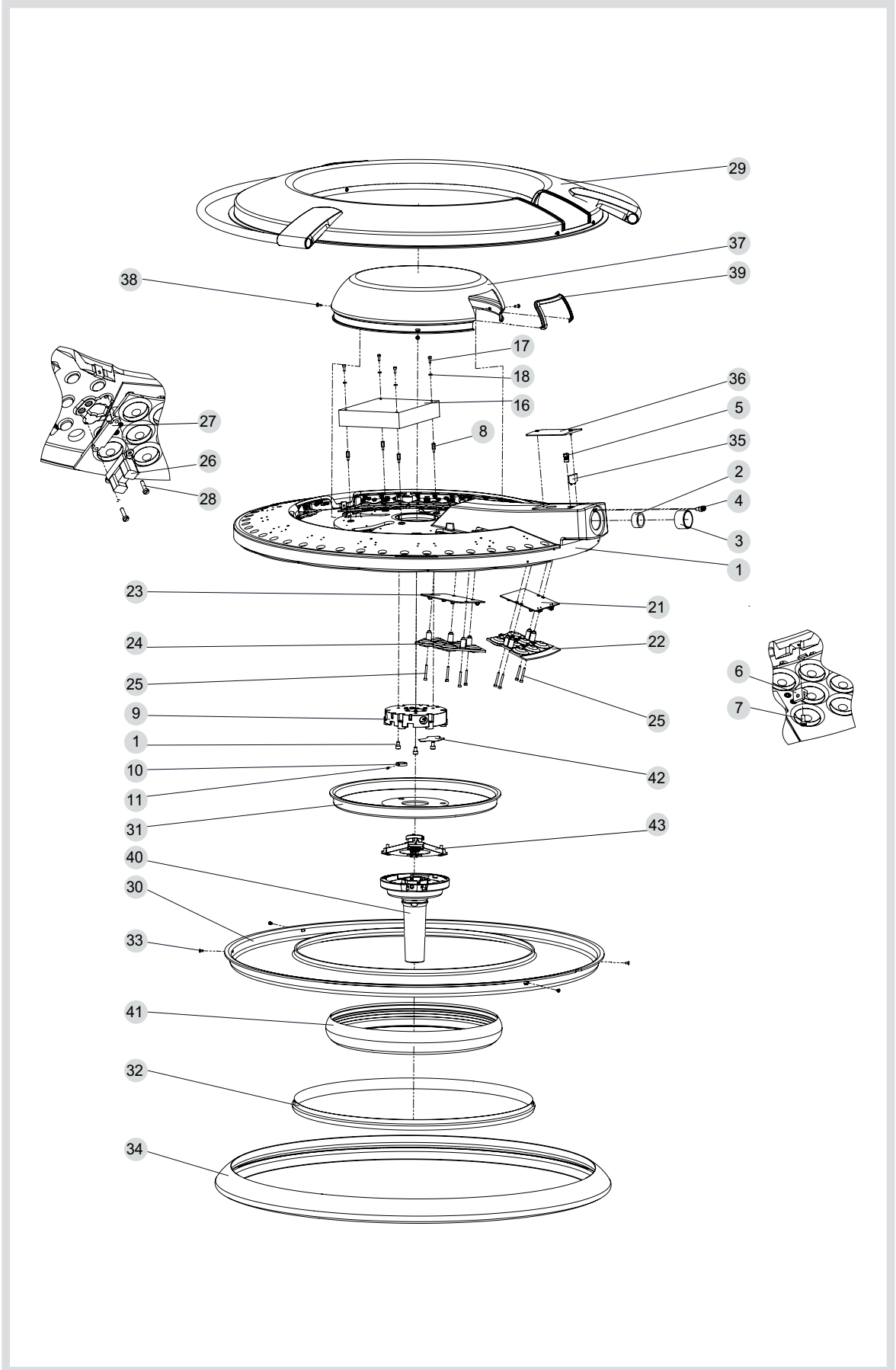
PARTS LIST 40 (CONTINUED)

PWD 700 LIGHTHEAD (WITH AIM OPTION)

Ref.	Part number	Description	Qty
	3 683 06 555	PWD seal kit	
32	5 683 01 023	Inner seal	1
34	5 683 01 022	Grip seal	1
39	5 683 01 055	Centre cover/wing seal	1
41	5 683 01 024	Centre peripheral seal	1
	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
35	5 683 01 028	Snap ring	5
	3 683 32 555	PWD 700 snap ring retaining plate kit	
36	5 683 70 009	PWD 700 retaining plate	1
	5 675 01 153	Underside sleeve spacer (not shown)	2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel (not shown)	2
	3 683 07 555	PWD centre cover kit	
37	5 683 01 026	Centre shell	1
38	6 009 90 106	M3×8 pan head socket screw, stainless steel	3
39	5 683 01 055	Centre cover/wing seal	1
40	3 683 40 998	PWD ALM Quick Lock handle mount	1
42	5 683 01 140	CFF camera label	1
43	3 683 38 998	Quick Lock HD interface kit	1
	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 40 (continued)

PWD 700 LIGHTHEAD (WITH AIM OPTION)



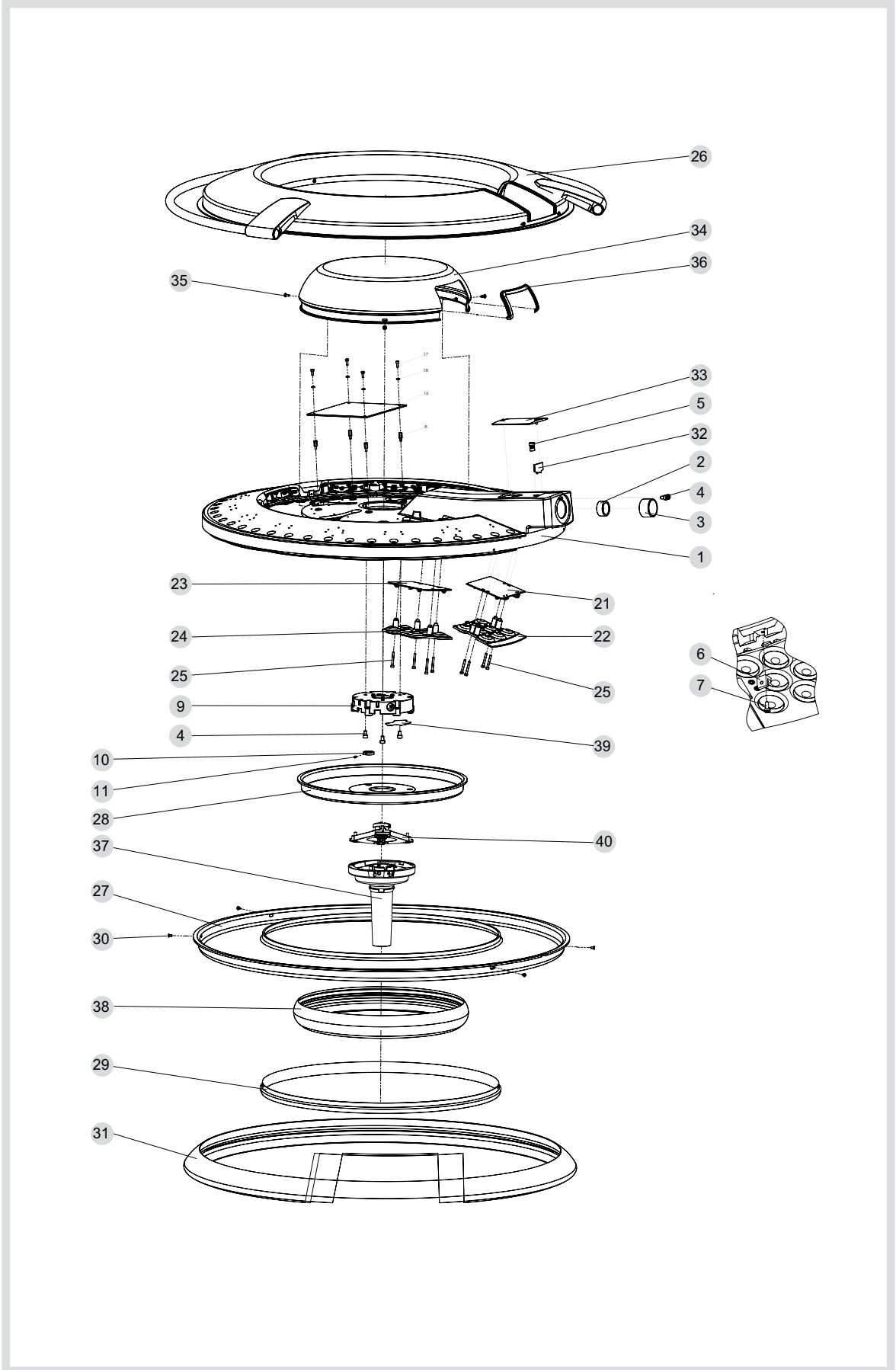
PARTS LIST 41

PWD 700 LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 01 144	Painted lighthouse structure, diam. 700 mm	1
2	6 236 22 006	Needle bush HK 2212	2
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 005 30 508	M5×8 socket head cap screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	6 007 80 308	M3×8 low profile socket head cap screw, stainless steel	7
9	5 678 01 008	Cam mounting plate	1
10	5 678 01 087	Viewing washer	1
11	6 006 80 306	M3×6 socket head cup point screw, stainless steel	1
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
8	6 951 00 532	M3-10 hexagonal M/F spacer	4
16	5 683 01 500	Control board	1
17	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
18	6 024 20 306	D3 external tooth lock washer, stainless steel	4
19	5 683 01 069	Centre LED circuit cable	1
20	5 683 01 806	Assembled ambient LED	1
	3 683 03 555	PWD peripheral LED module kit	
21	5 683 01 138	PP1 peripheral LED circuit	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 04 555	PWD peripheral lens kit	
22	5 683 01 113	Peripheral lens module	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 02 555	PWD centre LED module kit	
23	5 683 01 137	PP1 centre LED circuit	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
	3 683 01 555	PWD centre lens kit	
24	5 683 01 111	Centre lens module	1
25	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
26	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see relevant section)	1
	3 683 05 555	PWD underside kit	
27	5 683 01 020	Outer underside	1
28	5 683 01 021	Central underside	1
30	6 004 10 308	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4
	3 683 06 555	PWD seal kit	
29	5 683 01 023	Inner seal	1
31	5 683 01 022	Grip seal	1
36	5 683 01 055	Centre cover/wing seal	1
38	5 683 01 024	Centre peripheral seal	1

DIAGRAM 41

PWD 700 LIGHTHEAD



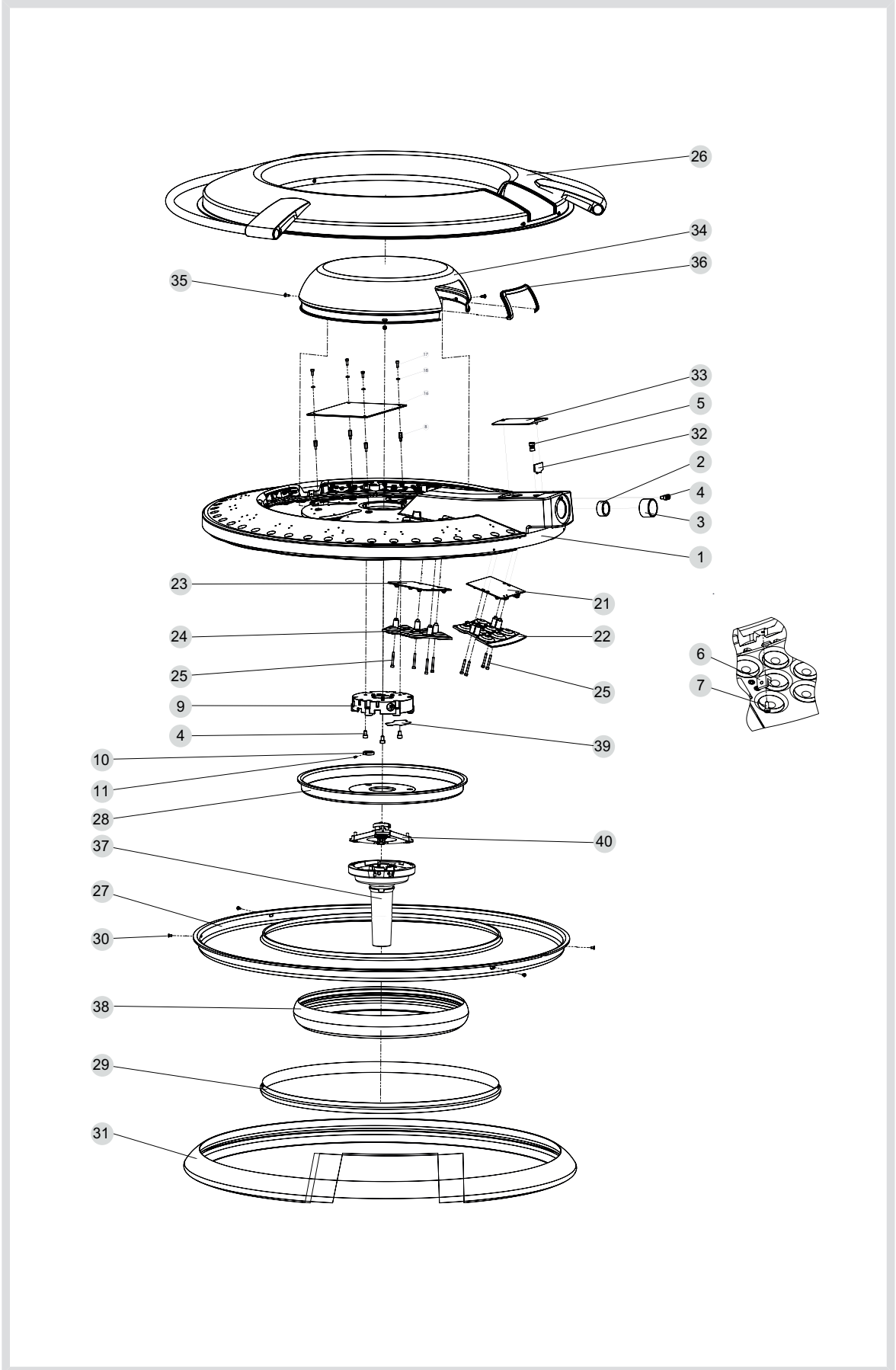
PARTS LIST 41

PWD 700 LIGHTHEAD

Ref.	Part number	Description	Qty	
32	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	5	
	5 683 01 028	Snap ring		
33	3 683 32 555	PWD 700 snap ring retaining plate kit	1	
	5 683 70 009	PWD 700 retaining plate		
	5 675 01 153	Underside sleeve spacer (not shown)		2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel (not shown)		2
34	3 683 07 555	PWD centre cover kit	1	
	5 683 01 026	Centre shell		
35	6 009 90 106	M3×8 pan head socket screw, stainless steel	3	
36	5 683 01 055	Centre cover/wing seal	1	
37	3 683 40 998	PWD ALM Quick Lock handle mount	1	
39	5 683 01 140	CFF camera label	1	
40	3 683 38 998	Quick Lock HD interface kit	1	
	3 683 39 998	Quick Lock SD interface kit	1	

DIAGRAM 41

PWD 700 LIGHTHEAD



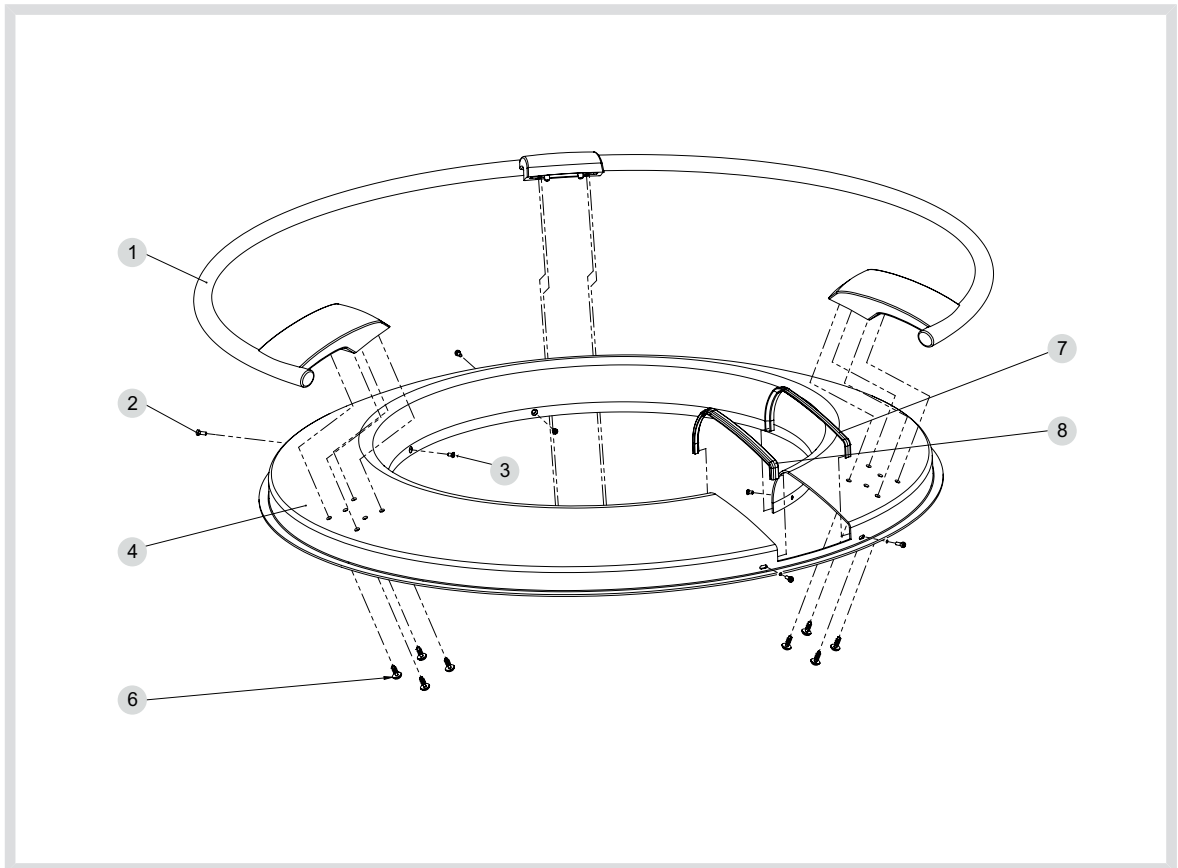
PARTS LIST 42

PWD 700/700 EVOLUTION OUTER COVER S/A

Ref.	Part number	Description	Qty
	3 683 21 998	PWD 700/700 EVO peripheral cover kit with outer handle	
1	5 683 70 011	PWD 700 one-piece handle, RAL 7011	1
2	6 009 70 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
3	6 009 90 115	M3×6 countersunk head screw, stainless steel	4
4	5 683 70 022	RAL 9016 PWD 700 EVO shell	1
6	6 009 90 114	EJOT screw	12
7	5 683 01 056	Right outer cover seal	1
8	5 683 01 057	Left outer cover seal	1

DIAGRAM 42

PWD 700/700 EVOLUTION OUTER COVER S/A



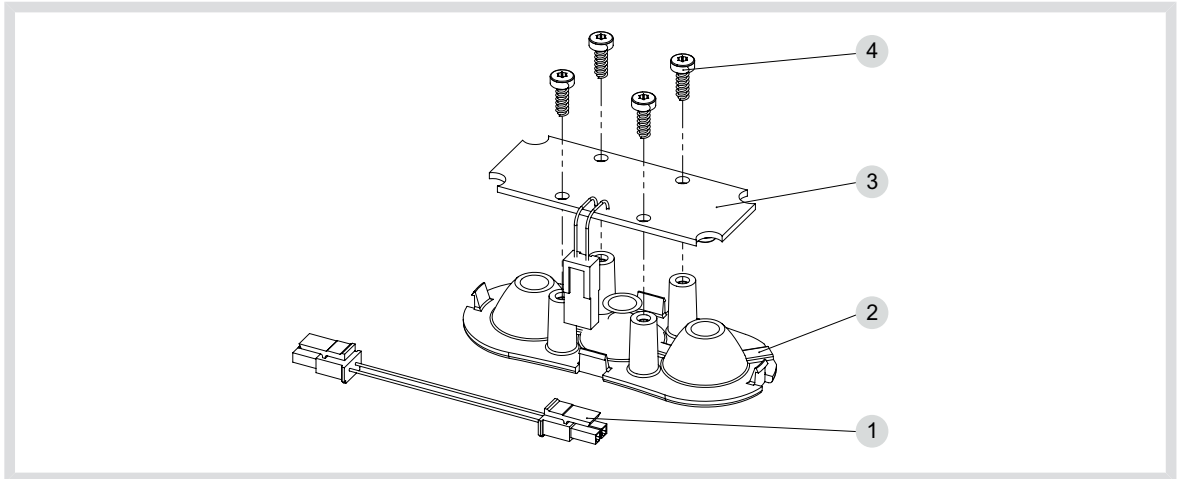
PARTS LIST 43

PWD/HLED 700 AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 10 998	PWD 700 LED endo kit (no longer available)	
1	5 683 01 075	Ambient lighting cable	1
2	5 683 01 037	Ambient lens module	1
3	5 683 70 507	Ambient LED circuit	1
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	4

DIAGRAM 43

PWD/HLED 700 AMBIENT LEDS



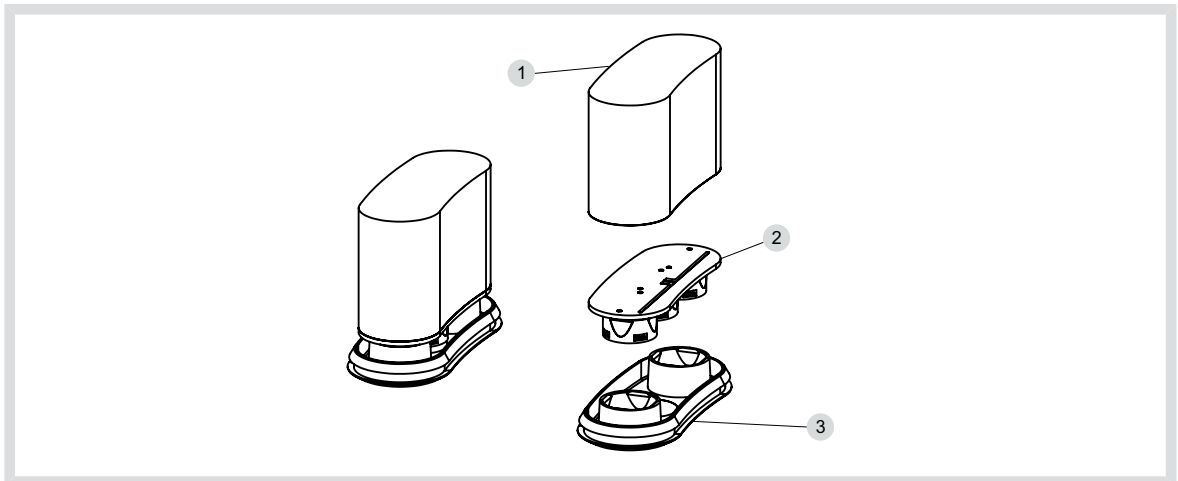
PARTS LIST 44

PWD/HLED 700 AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 35 998	PWD/HLED 700 silicone endo lighting kit	
1	5 683 70 061	PWD 700 silicone ambient module foam	1
2	5 683 70 600	PWD 700 silicone ambient module circuit	1
3	5 683 70 060	PWD 700 ambient module bezel	1

DIAGRAM 44

PWD/HLED 700 AMBIENT LEDS



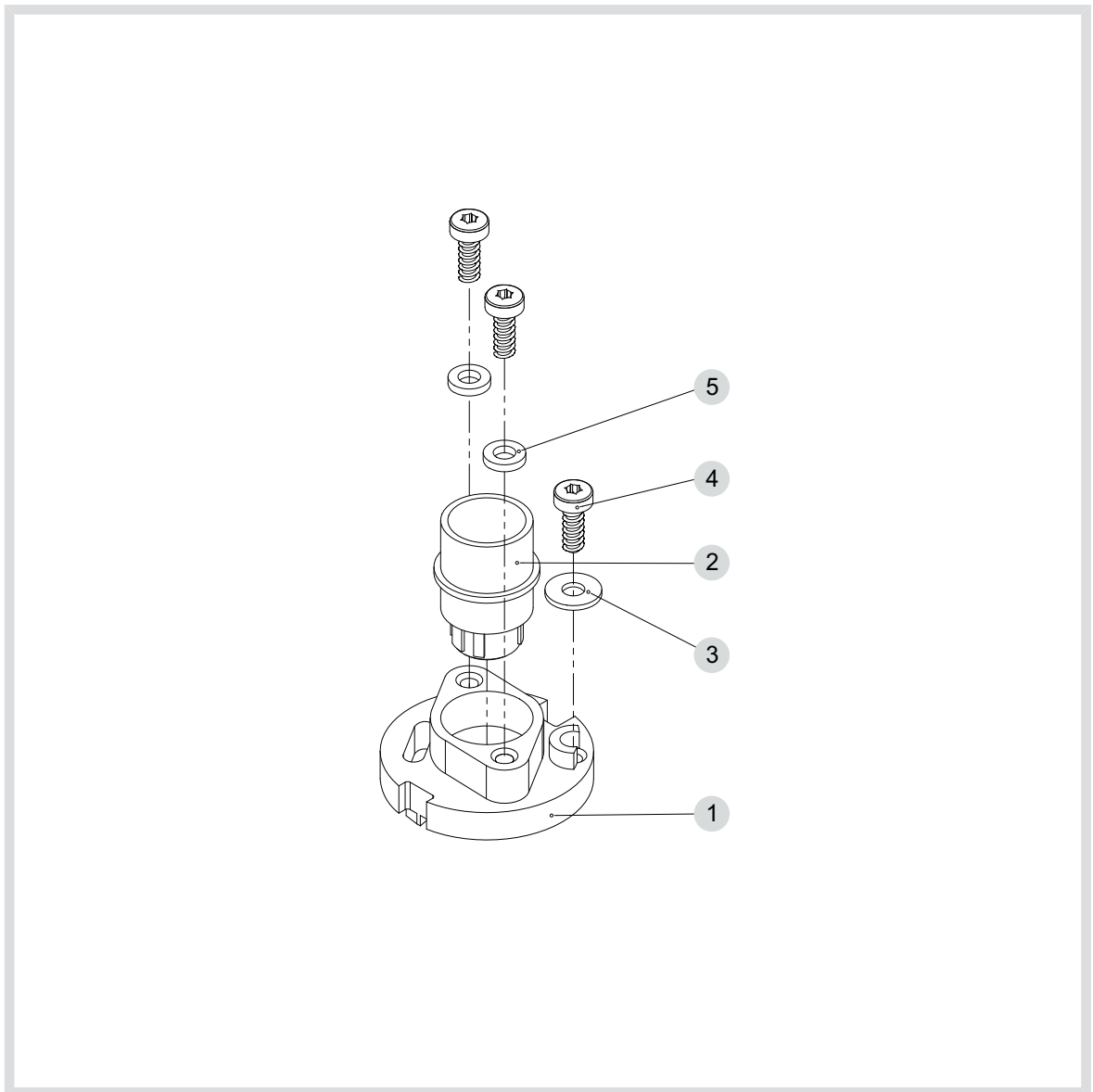
PARTS LIST 45

PWD 700/EVOLUTION VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
2	5 683 01 074	Video cable	1
3	6 021 20 832	M3 washer	1
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	3
5	6 024 20 306	D3 external tooth lock washer	2

DIAGRAM 45

PWD 700/EVOLUTION VIDEO CONNECTOR



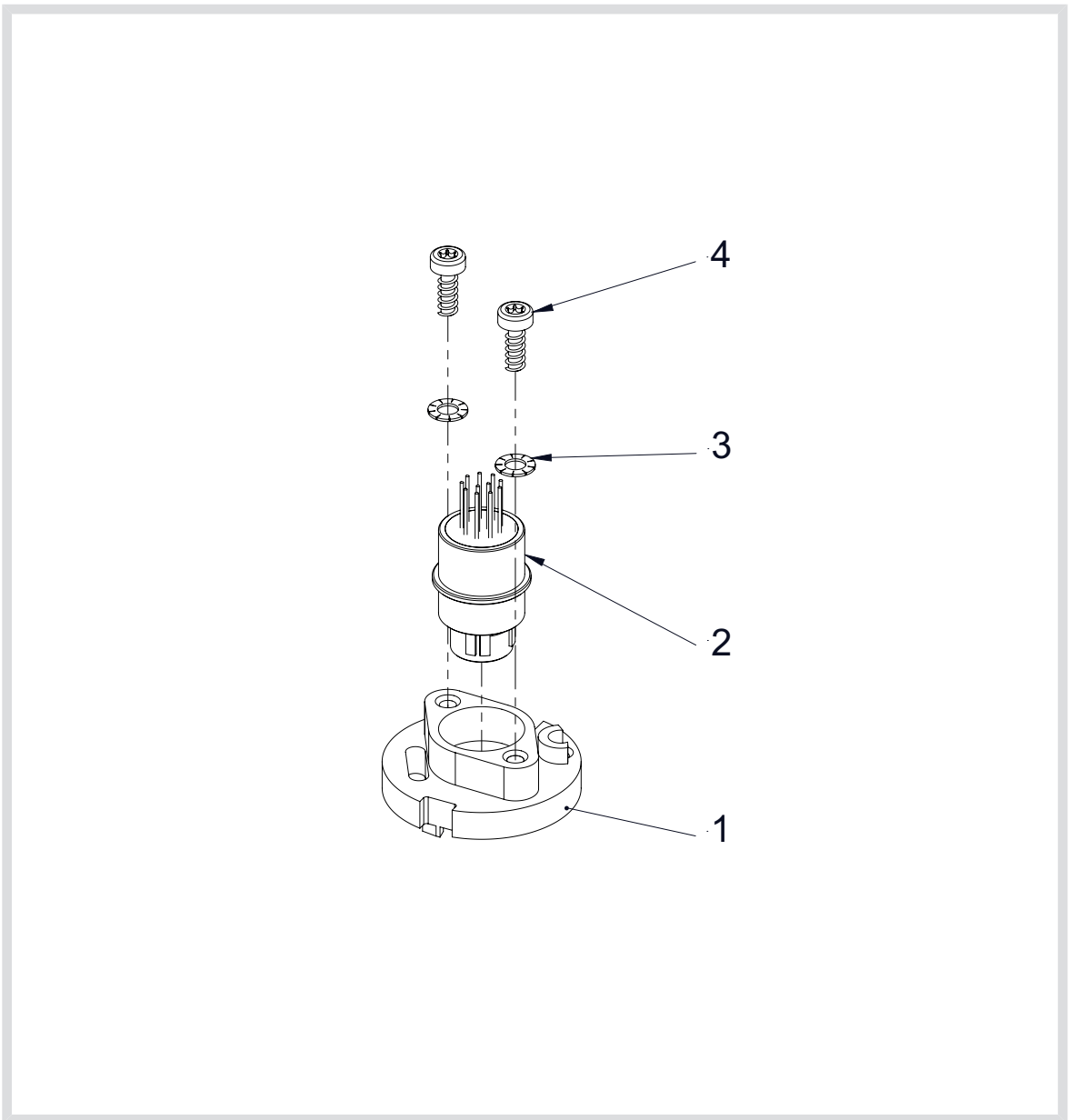
PARTS LIST 46

HD VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
3	6 024 20 306	D3 external tooth lock washer	2
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	2
2	3 683 88 555 5 677 05 122	PWD/HLD DF fork + V2 lighthouse HD cable kit HD camera video cable	1
2	3 683 89 555 5 677 05 122	SF fork + V2 lighthouse HD cable kit HD camera video cable	1

DIAGRAM 46

HD VIDEO CONNECTOR



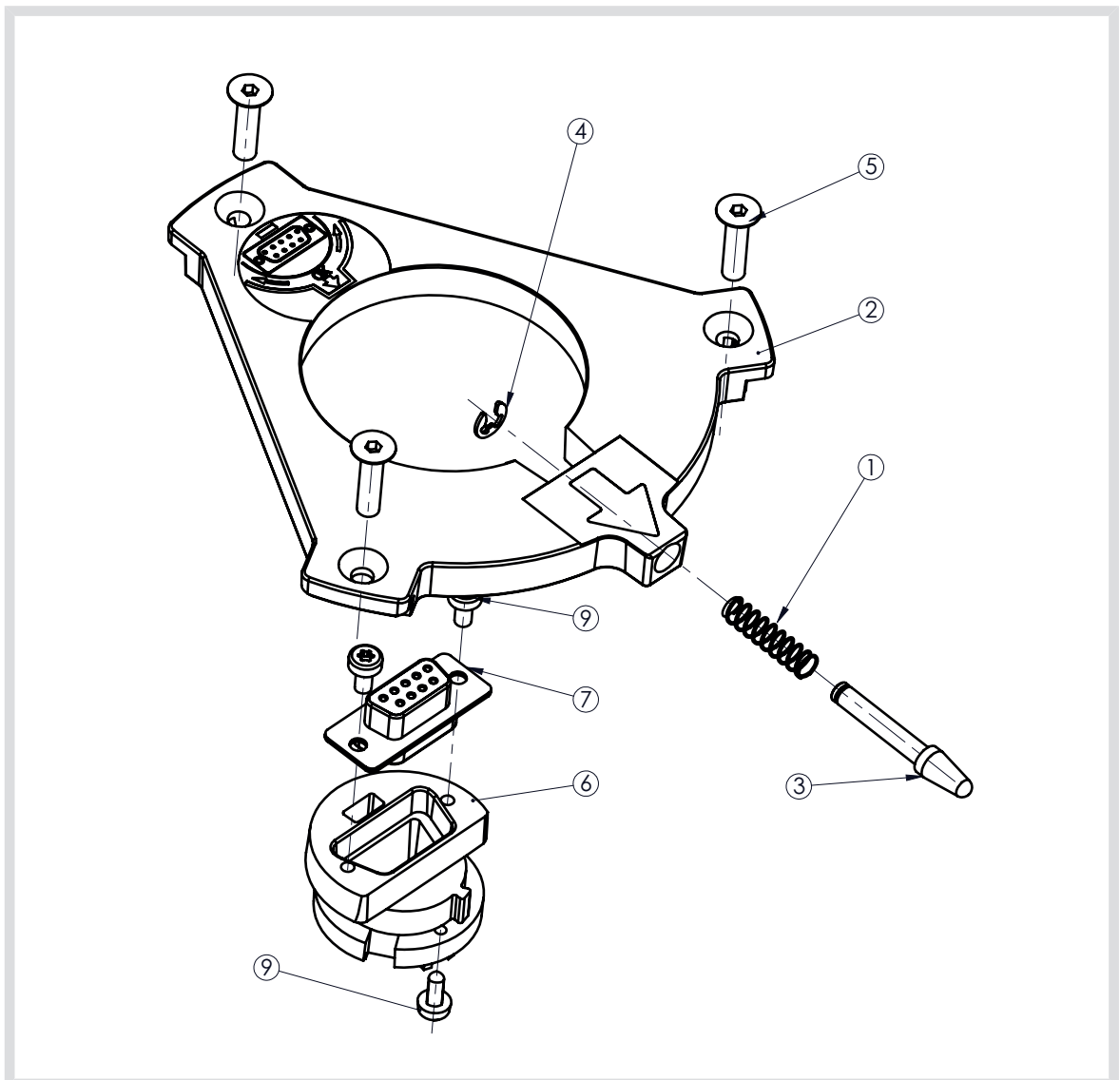
PARTS LIST 47

PWD/HLED 700/500 LIGHTHEAD QUICK LOCK INTERFACE

Ref.	Part number	Description	Qty
	3 683 39 998	Quick Lock SD interface kit	
	3 683 38 998	Quick Lock HD interface kit	
1	6 325 00 452	CP OLMA spring, stainless steel	1
2	5 677 07 016	Locking interface	1
3	5 677 07 017	Lock shaft	1
4	6 398 00 341	TUARC ring, diam. 3.2 mm, DIN 6799	1
5	6 004 10 420	M4×20 screw, ISO 10642, A2-70 stainless steel	3
6	5 677 07 008	Connector mount	1
7	5 683 01 525	SD video cable	1
	5 677 05 509	HD video cable	1
8	6 009 30 306	M3×6 thread-forming screw, DIN 7500, zinc-plated steel	3

DIAGRAM 47

PWD/HLED 700/500 LIGHTHEAD QUICK LOCK INTERFACE



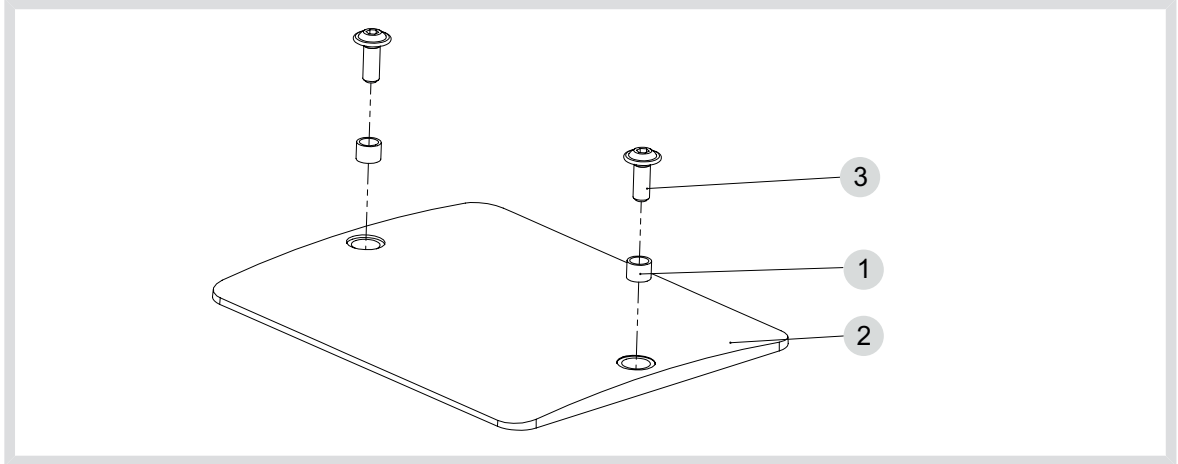
PARTS LIST 48

PWD 700 RETAINING PLATE S/A

Ref.	Part number	Description	Qty
	3 683 32 998	PWD 700 snap ring retaining plate kit	
1	5 675 01 153	Underside sleeve spacer	2
2	5 683 70 009	PWD 700 retaining plate	1
3	6 009 90 106	M3×8 pan head socket screw, stainless steel	2

DIAGRAM 48

PWD 700 RETAINING PLATE S/A



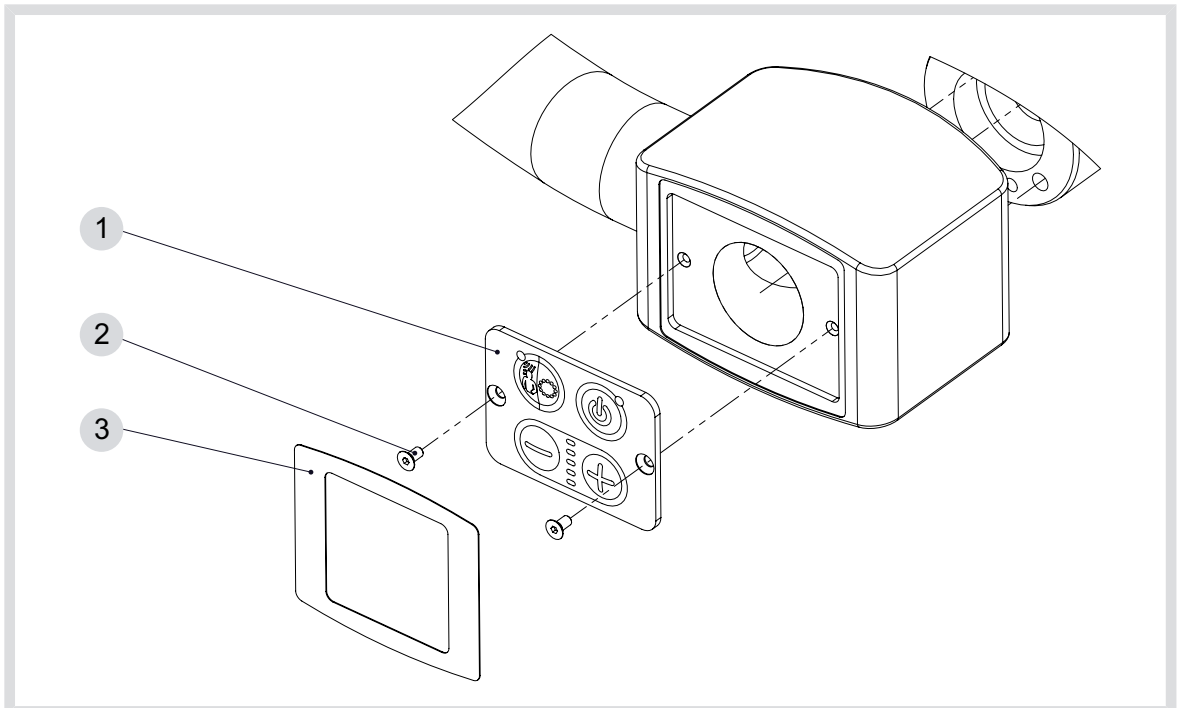
PARTS LIST 49

PWD 700/EVOLUTION KEYPAD

Ref.	Part number	Description	Qty
	3 683 29 555	PWD 700 fork dimmer keypad kit	
1	5 683 01 153	Fork control keypad	1
2	6 004 10 308	M3×8 socket head countersunk screw, stainless steel	2
3	5 683 01 064	Keypad protective film	1

DIAGRAM 49

PWD 700/EVOLUTION KEYPAD



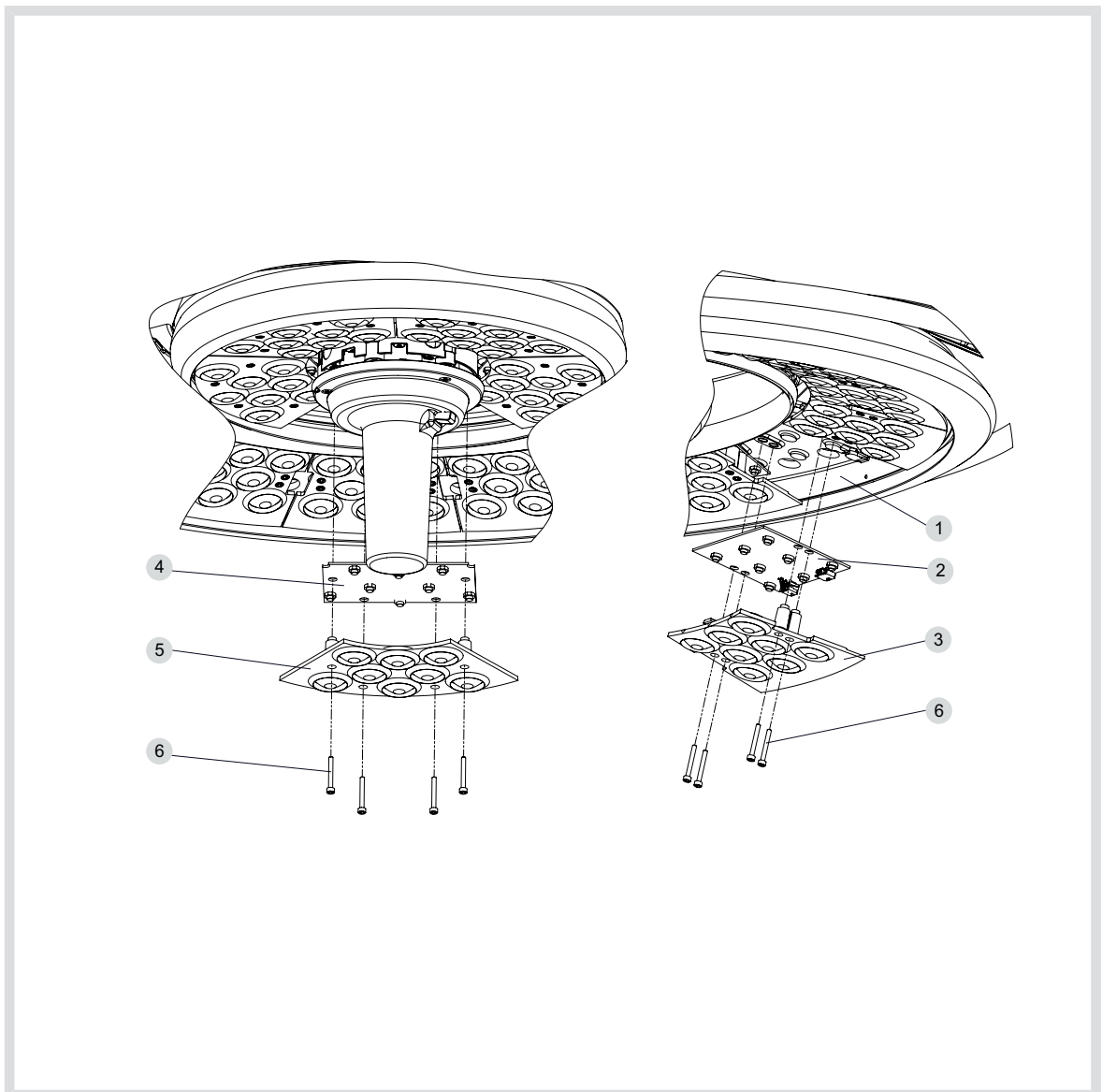
PARTS LIST 50

PWD 700 LENSES AND LED BOARD

Ref.	Part number	Description	Qty
1	5 683 01 040	Machined lighthouse frame	1
3 683 03 555 PWD peripheral LED module kit			
2	5 683 01 138	PP1 peripheral LED circuit	1
6	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
3 683 04 555 PWD peripheral lens kit			
3	5 683 01 113	Peripheral lens module	1
6	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
3 683 02 555 PWD centre LED module kit			
4	5 683 01 137	PP1 centre LED circuit	1
6	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4
3 683 01 555 PWD centre lens kit			
5	5 683 01 111	Centre lens module	1
6	6 005 30 325	M3×25 socket head cap screw, stainless steel, pre-glued	4

DIAGRAM 50

PWD 700 LENSES AND LED BOARD



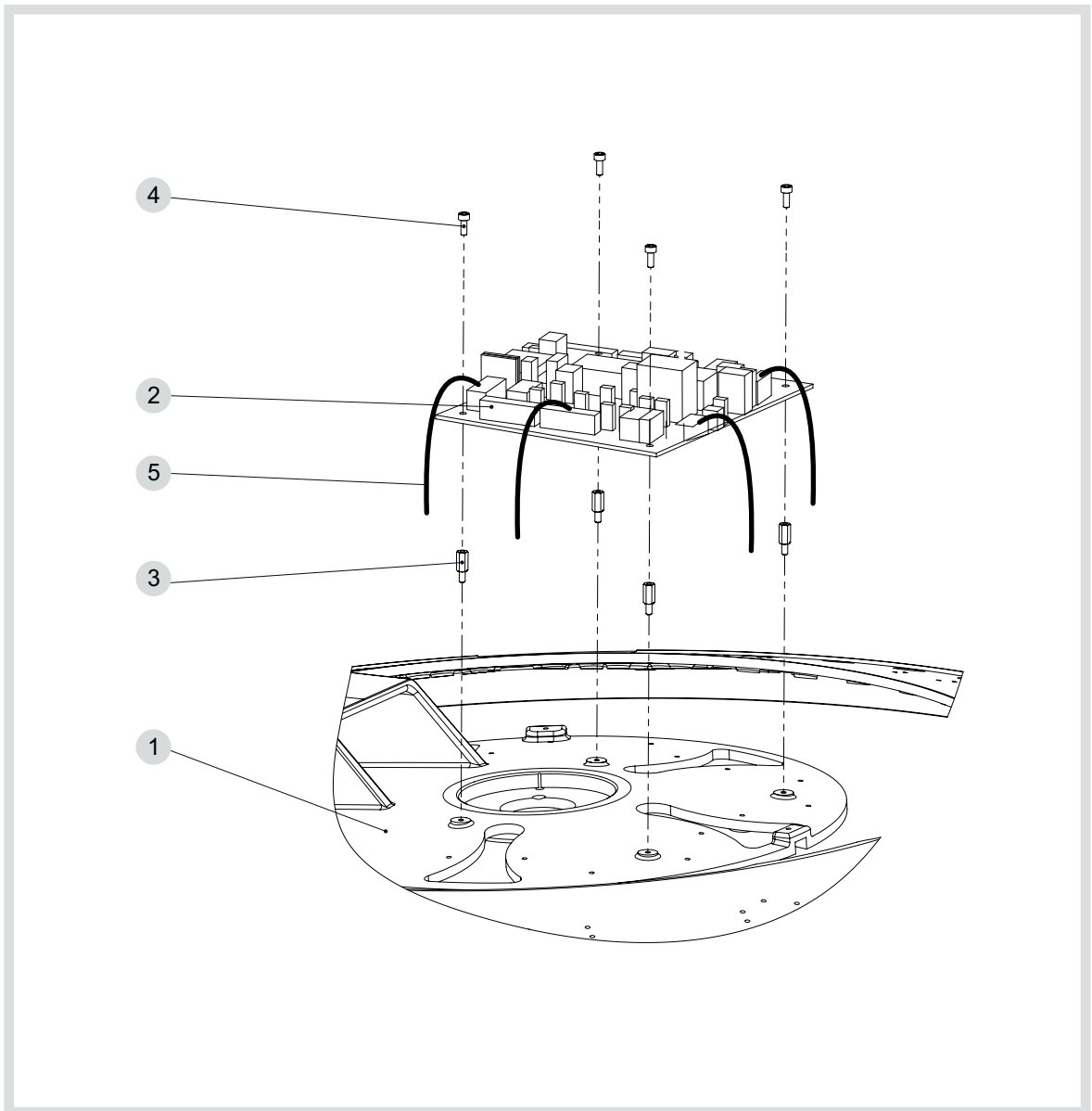
PARTS LIST 51

PWD 700 CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 01 040	Machined lighthouse frame	1
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
2	5 683 01 500	Control board	1
3	6 951 00 532	M3-10 hexagonal M/F spacer	4
4	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
5	3 683 12 555	PWD cable kit	
	5 683 01 074	Video cable with connectors	1
	5 683 01 065	Peripheral cable 1	1
	5 683 01 066	Peripheral cable 2	1
	5 683 01 067	Peripheral cable 3	1
	5 683 01 068	Peripheral cable 4	1
	5 683 01 069	Centre LED circuit cable	1

DIAGRAM 51

PWD 700 CONTROL BOARD



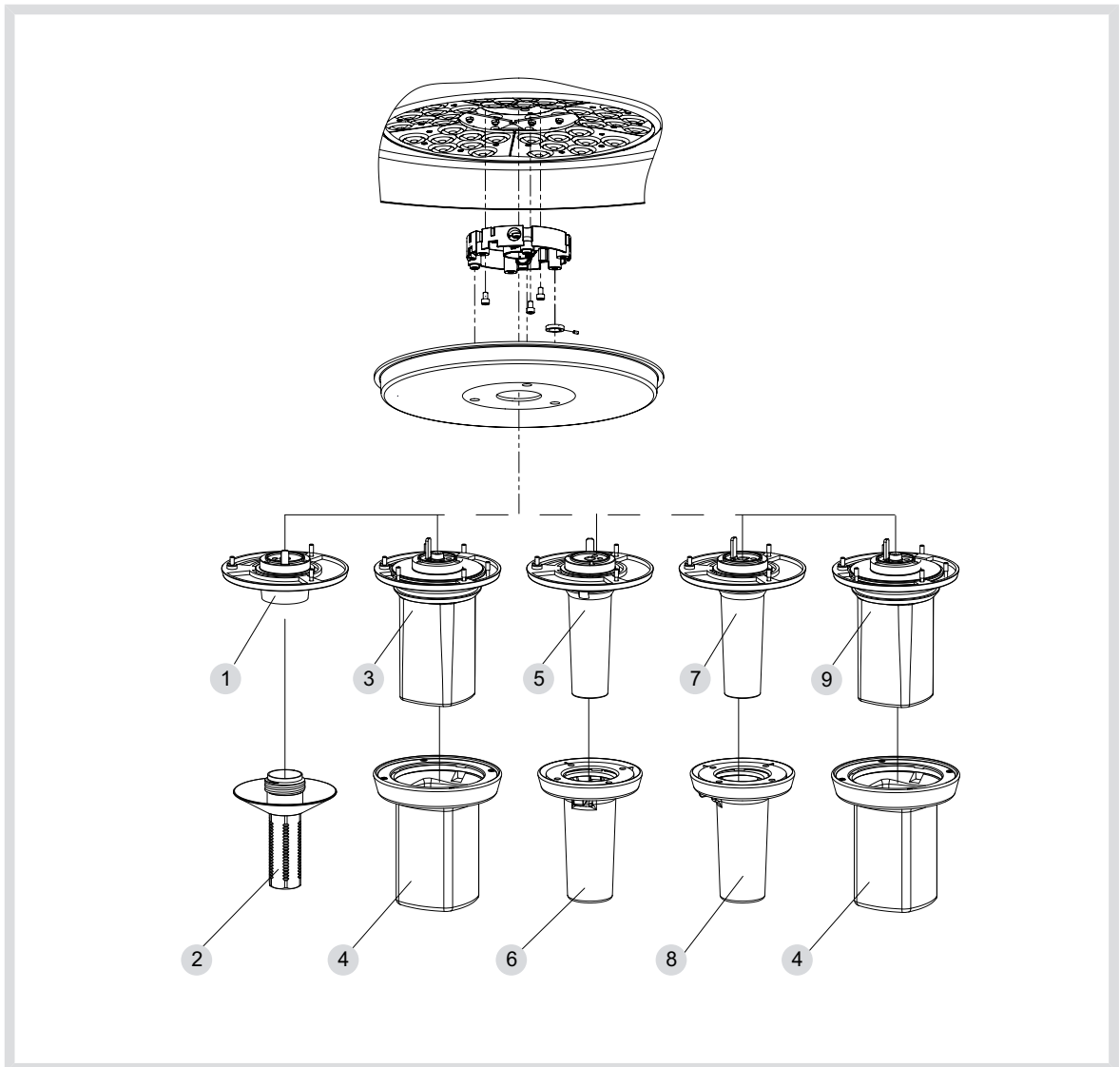
PARTS LIST 52

PWD 700 HANDLE

Ref.	Part number	Description	Qty
1	5 675 01 253	Devon & DeRoyal adapter	1
2		Devon handle	1
3	5 675 01 246	PAL zoom lens camera	1
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 678 40 998	Tilt handle S/A	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 675 01 245	PAL fixed focal length camera	1
	5 675 01 247	NTSC fixed focal length camera	1
8	3 672 03 975	Sterilisable handle for CFF camera	5
9	5 677 02 904	HD camera	1

DIAGRAM 52

PWD 700 HANDLE



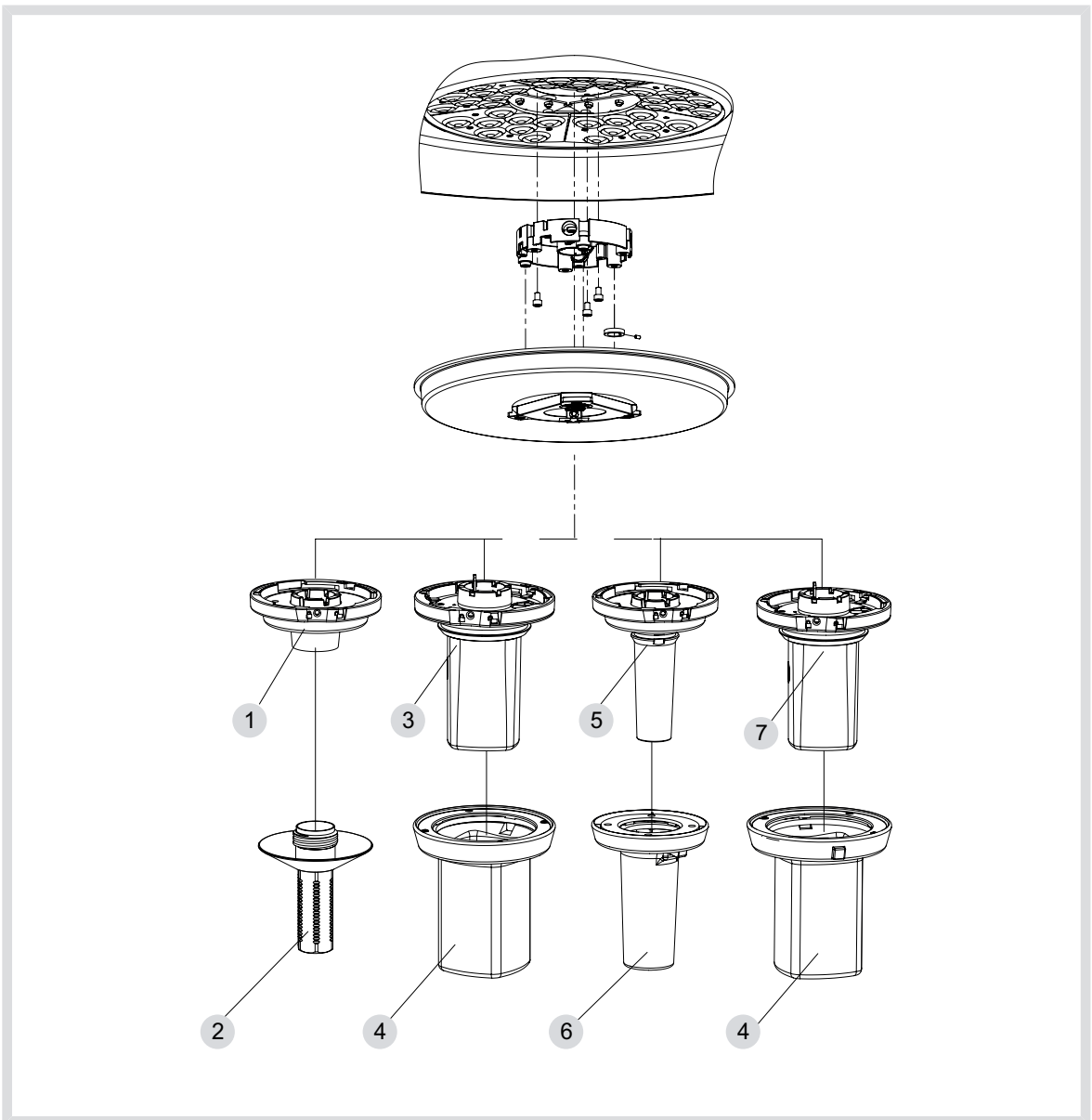
PARTS LIST 53

PWD 700 QUICK LOCK HANDLE

Ref.	Part number	Description	Qty
1	5 683 01 910	Quick Lock Devon & DeRoyal adapter	1
2		Devon handle	1
3	5 677 07 910 5 677 07 909	Quick Lock NTSC SD camera Quick Lock PAL SD camera	1
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 683 40 998	PWD ALM Quick Lock handle mount	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 677 07 904	Quick Lock HD camera	1

DIAGRAM 53

PWD 700 QUICK LOCK HANDLE



16.11 PWD 700 Evolution lighthouse

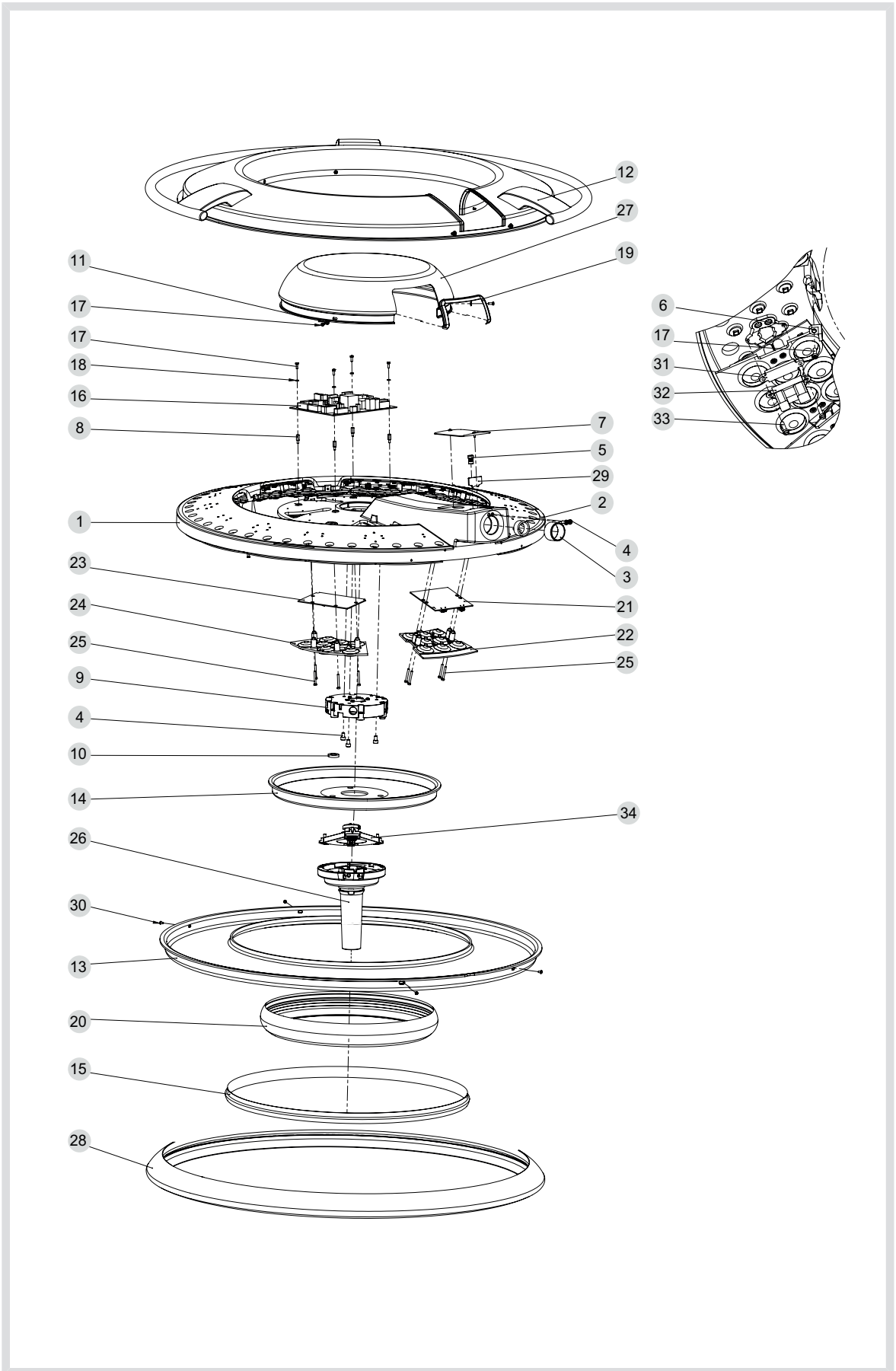
PARTS LIST 54

PWD 700 LIGHTHEAD (HD, WITH AIM OPTION)

Ref.	Part number	Description	Qty
1	5 683 70 032	PWD 700 Evolution RAL 9016 frame	1
2	6 236 22 006	Needle bush HK 2212	1
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	3 683 32 555	PWD 700 snap ring retaining plate kit	
	5 683 70 009	PWD 700 retaining plate	1
	5 675 01 153	Underside sleeve spacer	2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
8	6 951 00 532	M3-10 hexagonal M/F spacer	4
16	5 683 01 500	Control board	1
17	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
9	5 678 01 008	Cam mounting plate	1
10	5 683 50 060	Viewing washer	1
11	6 029 90 003	M3 serrated spring lock washer, stainless steel	3
12	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see relevant section)	1
	3 683 05 555	PWD underside kit	
13	5 683 01 020	Outer underside	1
14	5 683 01 021	Central underside	1
30	6 009 90 115	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4
	3 683 06 555	PWD seal kit	
15	5 683 01 023	Inner seal	1
19	5 683 01 055	Centre cover/wing seal	1
20	5 683 01 024	Centre peripheral seal	1
28	5 683 01 022	Grip seal	1
18	6 024 20 306	3 mm external tooth lock washer, stainless steel	4
	3 683 36 555	PWD 700 EVO T3K peripheral LED module kit	
21	5 683 70 016	Evolution T3K peripheral board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 37 555	PWD 700 EVO T4K peripheral LED module kit	
21	5 683 70 018	Evolution T4K peripheral board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 41 555	PWD 700/HLED 700 EVO peripheral lens kit	
22	5 683 70 056	Peripheral lens module	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 38 555	PWD 700 EVO T3K centre LED module kit	
23	5 683 70 017	Evolution T3K centre board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4

DIAGRAM 54

PWD 700 LIGHTHEAD (HD, WITH AIM OPTION)



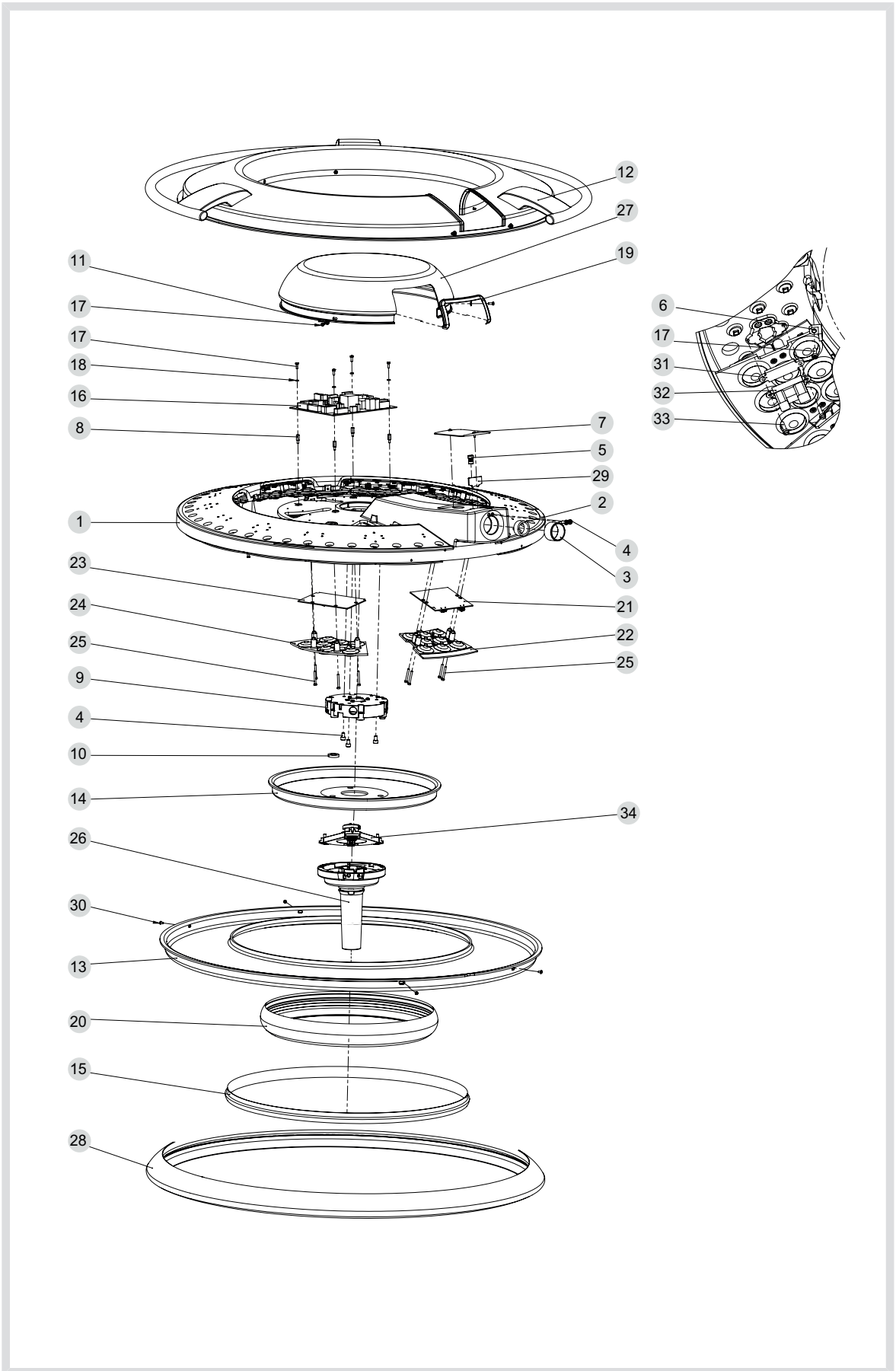
PARTS LIST 54 (CONTINUED)

PWD 700 LIGHTHEAD (HD, WITH AIM OPTION)

Ref.	Part number	Description	Qty
	3 683 39 555	PWD 700 EVO T4K centre LED module kit	
23	5 683 70 019	Evolution T4K centre board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 40 555	PWD 700 EVO/HLED 700 EVO centre lens kit	
24	5 683 70 005	Centre lens module	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
26	3 683 40 998	PWD ALM Quick Lock handle mount	1
	3 683 07 555	PWD centre cover kit	
27	5 683 01 026	Centre shell	1
19	5 683 01 055	Centre cover/wing seal	1
	6 009 90 106	M3×8 pan head socket screw, stainless steel	3
	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
29	5 683 01 028	Snap ring	5
	3 683 09 555	PowerLED head detection kit	
32	5 683 01 141	Sharp 2Y0D02 sensor + connector	1
33	6 009 30 320	M3×20 slotted cheese head screw, nylon	2
31	5 683 01 210	Shim for AIM sensor	8
34	3 683 38 998	Quick Lock HD interface kit	1
	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 54

PWD 700 LIGHTHEAD (HD, WITH AIM OPTION)



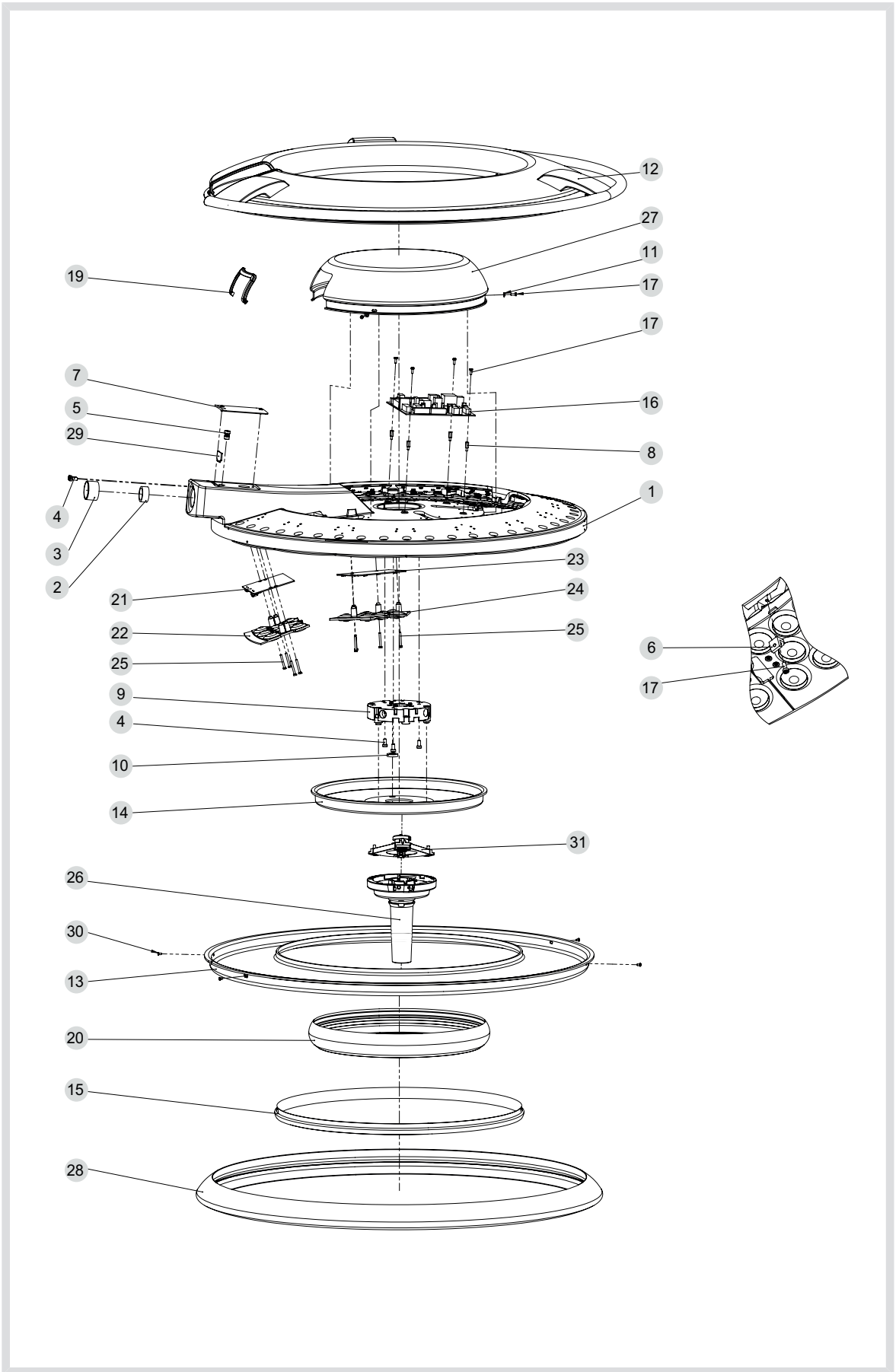
PARTS LIST 55

PWD 700 EVOLUTION LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 70 032	PWD 700 Evolution RAL 9016 frame	1
2	6 236 22 006	Needle bush HK 2212	1
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	3 683 32 555	PWD 700 snap ring retaining plate kit	
	5 683 70 009	PWD 700 retaining plate	1
	5 675 01 153	Underside sleeve spacer	2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
8	6 951 00 532	M3-10 hexagonal M/F spacer	4
16	5 683 01 500	Control board	1
17	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
9	5 678 01 008	Cam mounting plate	1
10	5 683 50 060	Viewing washer	1
11	6 029 90 003	M3 serrated spring lock washer, stainless steel	3
12	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see relevant section)	1
	3 683 05 555	PWD underside kit	
13	5 683 01 020	Outer underside	1
14	5 683 01 021	Central underside	1
30	6 009 90 115	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4
	3 683 06 555	PWD seal kit	
15	5 683 01 023	Inner seal	1
19	5 683 01 055	Centre cover/wing seal	1
20	5 683 01 024	Centre peripheral seal	1
28	5 683 01 022	Grip seal	1
	3 683 36 555	PWD 700 EVO T3K peripheral LED module kit	
21	5 683 70 016	Evolution T3K peripheral board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 37 555	PWD 700 EVO T4K peripheral LED module kit	
21	5 683 70 018	Evolution T4K peripheral board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 41 555	PWD 700/HLED 700 EVO peripheral lens kit	
22	5 683 70 056	Peripheral lens module	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 38 555	PWD 700 EVO T3K centre LED module kit	
23	5 683 70 017	Evolution T3K centre board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 39 555	PWD 700 EVO T4K centre LED module kit	
23	5 683 70 019	Evolution T4K centre board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4

DIAGRAM 55

PWD 700 EVOLUTION LIGHTHEAD



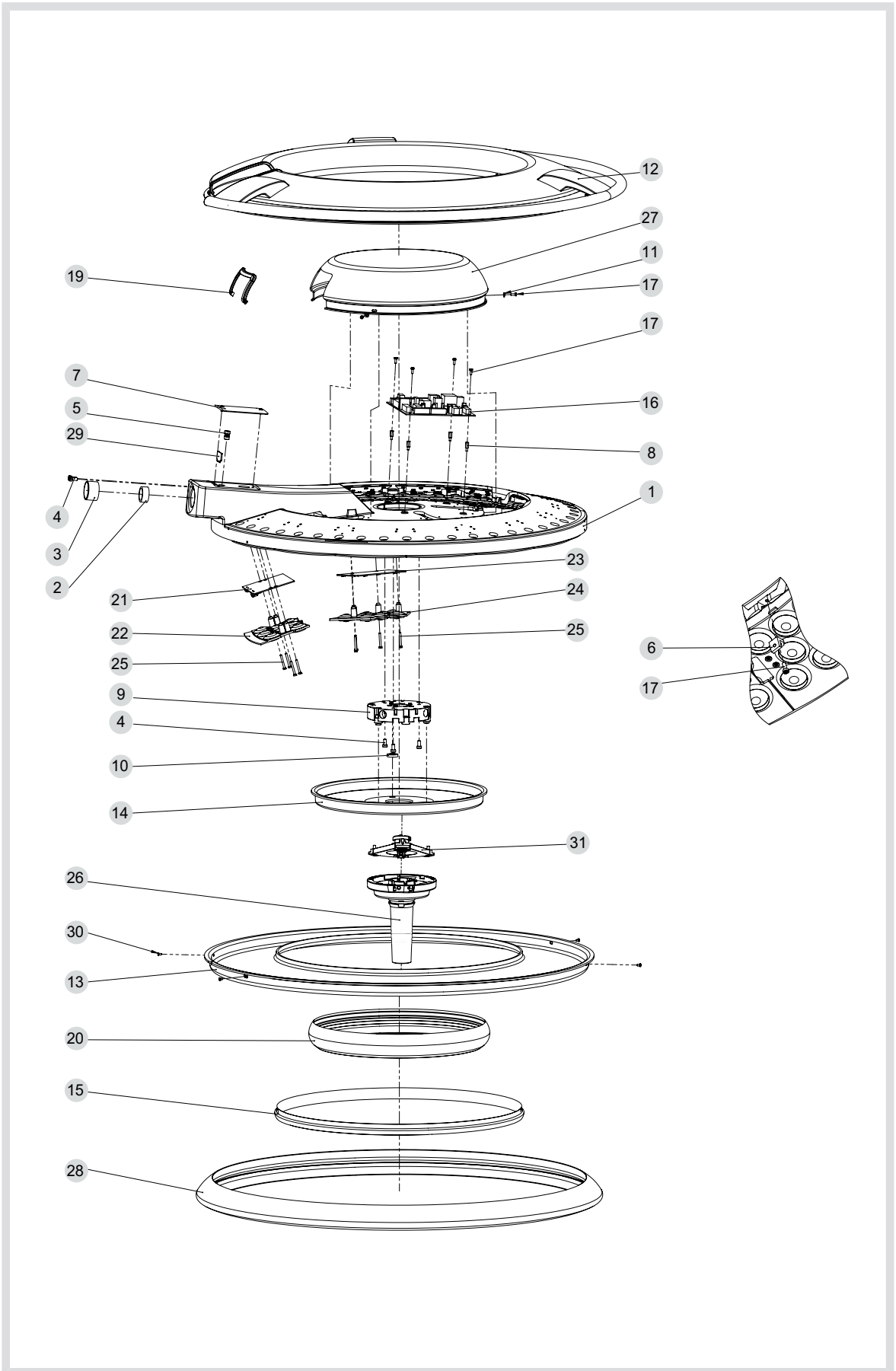
PARTS LIST 55 (CONTINUED)

PWD 700 EVOLUTION LIGHTHEAD

Ref.	Part number	Description	Qty
	3 683 40 555	PWD 700 EVO/HLED 700 EVO centre lens kit	
24	5 683 70 005	Centre lens module	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
26	3 683 40 998	PWD ALM Quick Lock handle mount	1
	3 683 07 555	PWD centre cover kit	
27	5 683 01 026	Centre shell	1
19	5 683 01 055	Centre cover/wing seal	1
	6 009 90 106	M3×8 pan head socket screw, stainless steel	3
28	5 683 01 022	Grip seal	1
	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
29	5 683 01 028	Snap ring	5
30	6 009 90 115	M3×6 Torx countersunk head screw, stainless steel, ISO 14581	4
	3 683 38 998	Quick Lock HD interface kit	1
31	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 55

PWD 700 EVOLUTION LIGHTHEAD



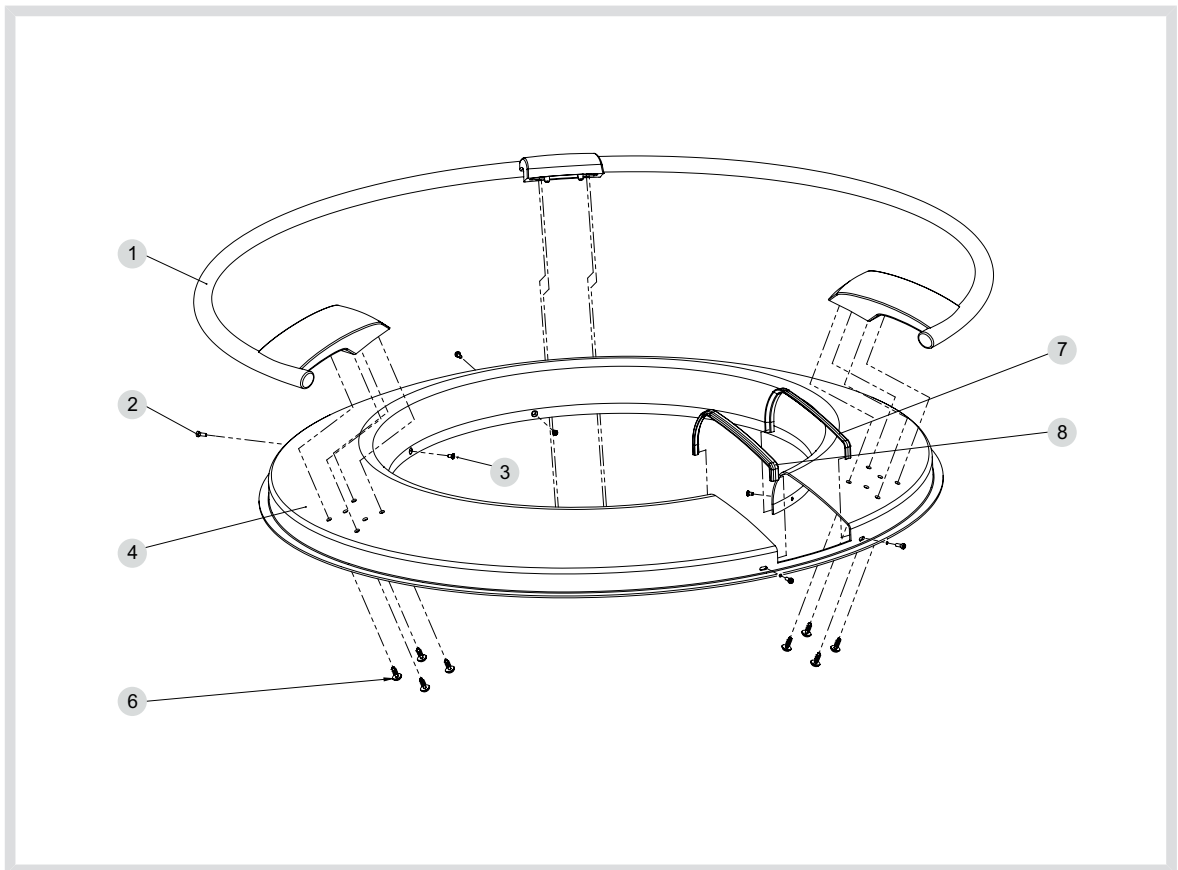
PARTS LIST 56

PWD 700/700 EVOLUTION OUTER COVER S/A

Ref.	Part number	Description	Qty
	3 683 21 998	PWD 700/700 EVO peripheral cover kit with outer handle	
1	5 683 70 011	PWD 700 one-piece handle, RAL 7011	1
2	6 009 70 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
3	6 009 90 115	M3×6 countersunk head screw, stainless steel	4
4	5 683 70 022	RAL 9016 PWD 700 EVO shell	1
6	6 009 90 114	EJOT screw	12
7	5 683 01 056	Right outer cover seal	1
8	5 683 01 057	Left outer cover seal	1

DIAGRAM 56

PWD 700/700 EVOLUTION OUTER COVER S/A



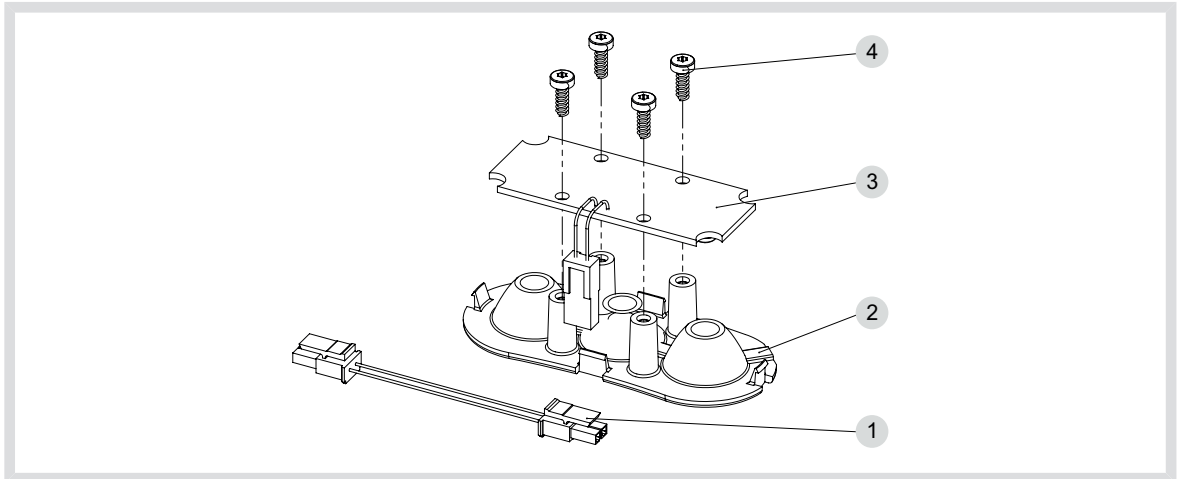
PARTS LIST 57

PWD 700 EVOLUTION AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 10 998	PWD 700 LED endo kit (no longer available)	
1	5 683 01 075	Ambient lighting cable	1
2	5 683 01 037	Ambient lens module	1
3	5 683 70 507	Ambient LED circuit	1
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	4

DIAGRAM 57

PWD 700 EVOLUTION AMBIENT LEDS



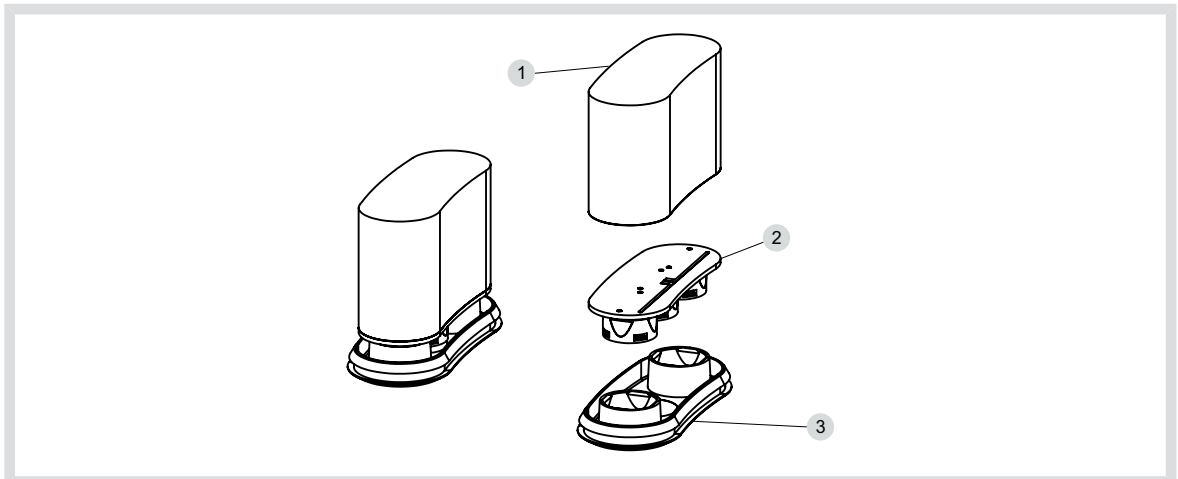
PARTS LIST 58

PWD 700 EVOLUTION/BOOST AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 35 998	PWD/HLD 700 silicone endo lighting kit	
1	5 683 70 061	PWD 700 silicone ambient module foam	1
2	5 683 70 600	PWD 700 silicone ambient module circuit	1
3	5 683 70 060	PWD 700 ambient module bezel	1

DIAGRAM 58

PWD 700 EVOLUTION/BOOST AMBIENT LEDS



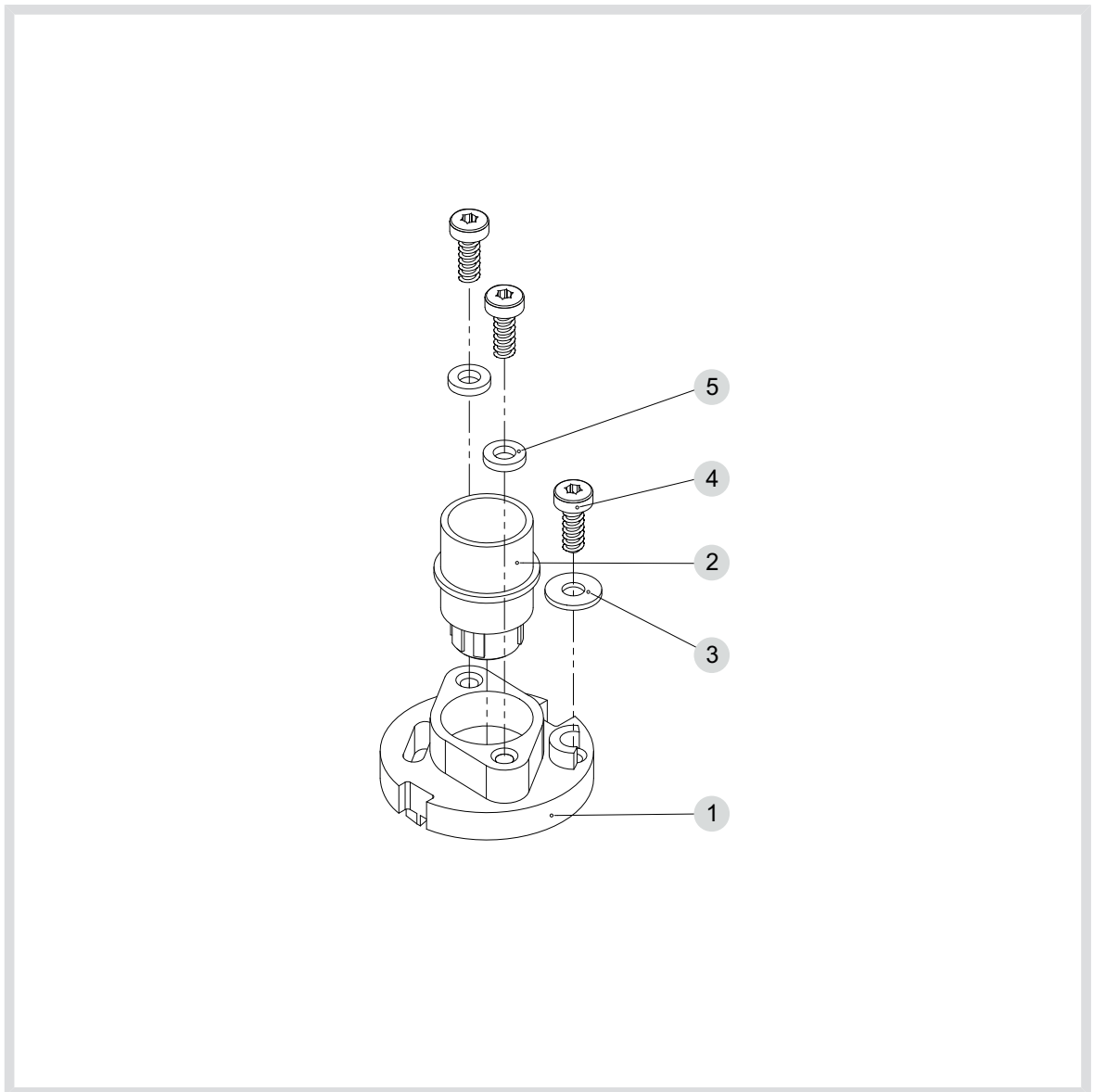
PARTS LIST 59

VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
2	5 683 01 074	Video cable	1
3	6 021 20 832	M3 washer	1
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	3
5	6 024 20 306	D3 external tooth lock washer	2

DIAGRAM 59

VIDEO CONNECTOR



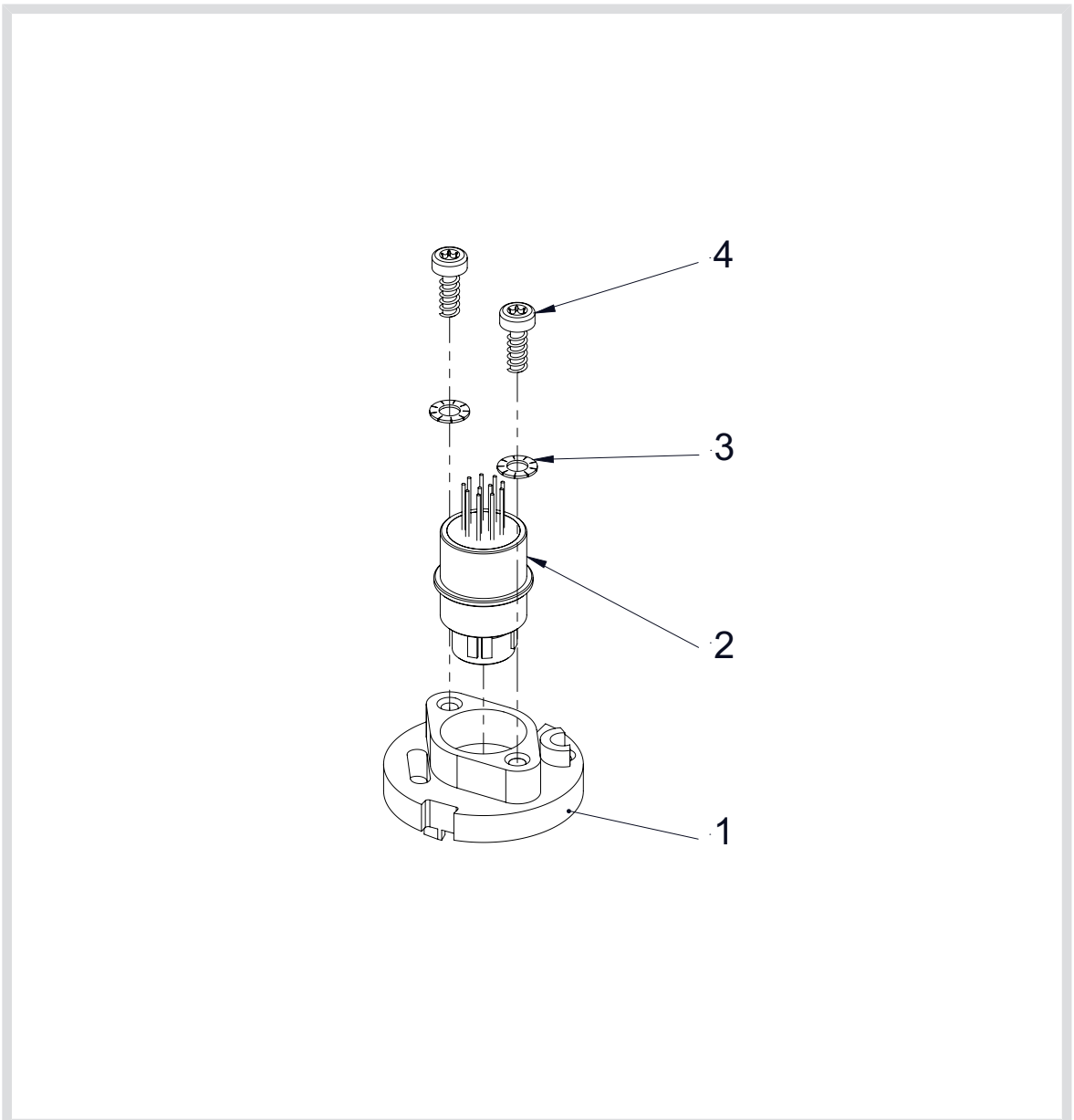
PARTS LIST 60

HD VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
3	6 024 20 306	D3 external tooth lock washer	2
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	2
2	3 683 88 555 5 677 05 122	PWD/HLD DF fork + V2 lighthouse HD cable kit HD camera video cable	1
2	3 683 89 555 5 677 05 122	SF fork + V2 lighthouse HD cable kit HD camera video cable	1

DIAGRAM 60

HD VIDEO CONNECTOR



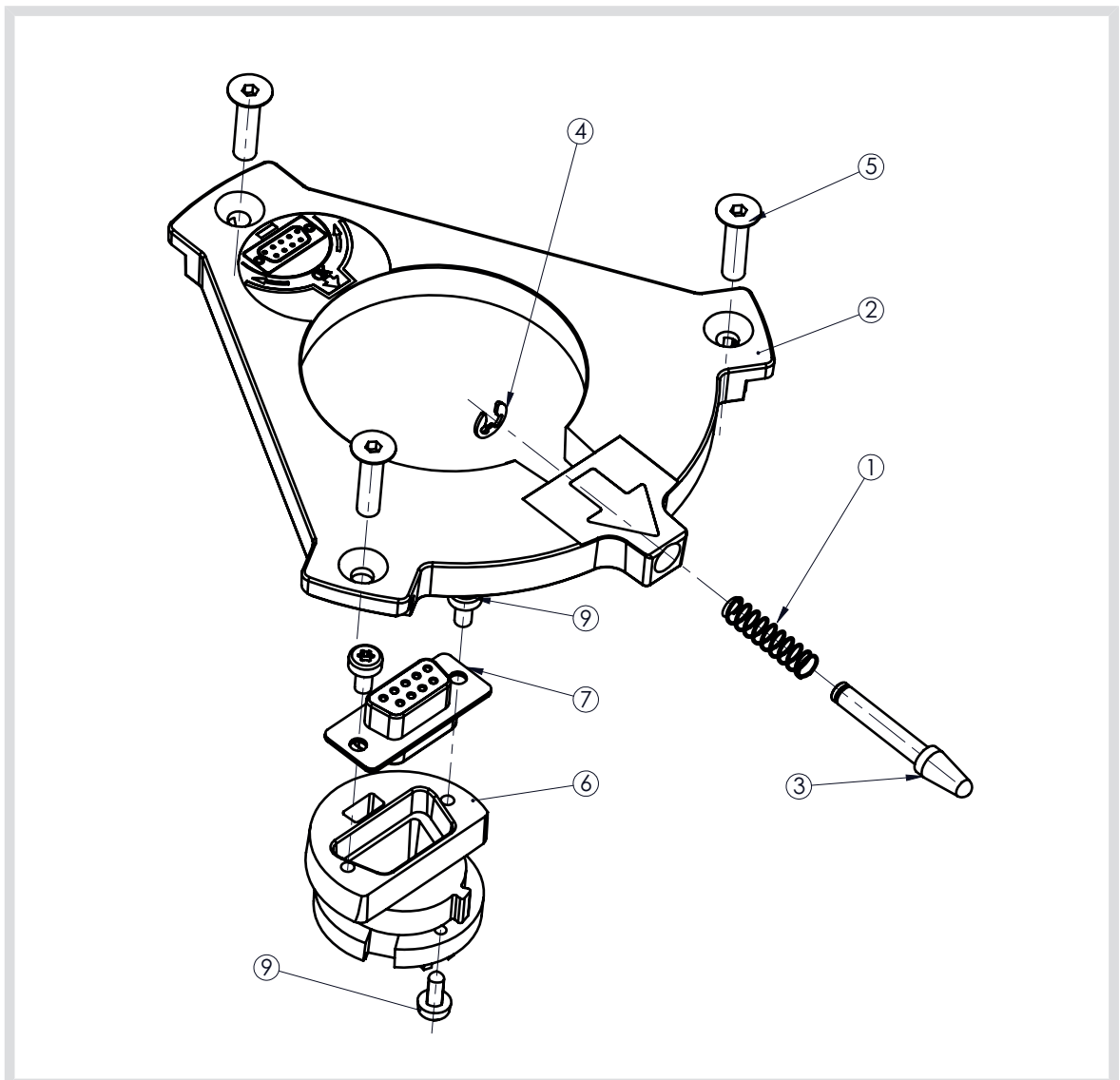
PARTS LIST 61

PWD 700/500 LIGHTHEAD QUICK LOCK INTERFACE

Ref.	Part number	Description	Qty
	3 683 39 998	Quick Lock SD interface kit	
	3 683 38 998	Quick Lock HD interface kit	
1	6 325 00 452	CP OLMA spring, stainless steel	1
2	5 677 07 016	Locking interface	1
3	5 677 07 017	Lock shaft	1
4	6 398 00 341	TUARC ring, diam. 3.2 mm, DIN 6799	1
5	6 004 10 420	M4×20 screw, ISO 10642, A2-70 stainless steel	3
6	5 677 07 008	Connector mount	1
7	5 683 01 525	SD video cable	1
	5 677 05 509	HD video cable	1
8	6 009 30 306	M3×6 thread-forming screw, DIN 7500, zinc-plated steel	3

DIAGRAM 61

PWD 700/500 LIGHTHEAD QUICK LOCK INTERFACE



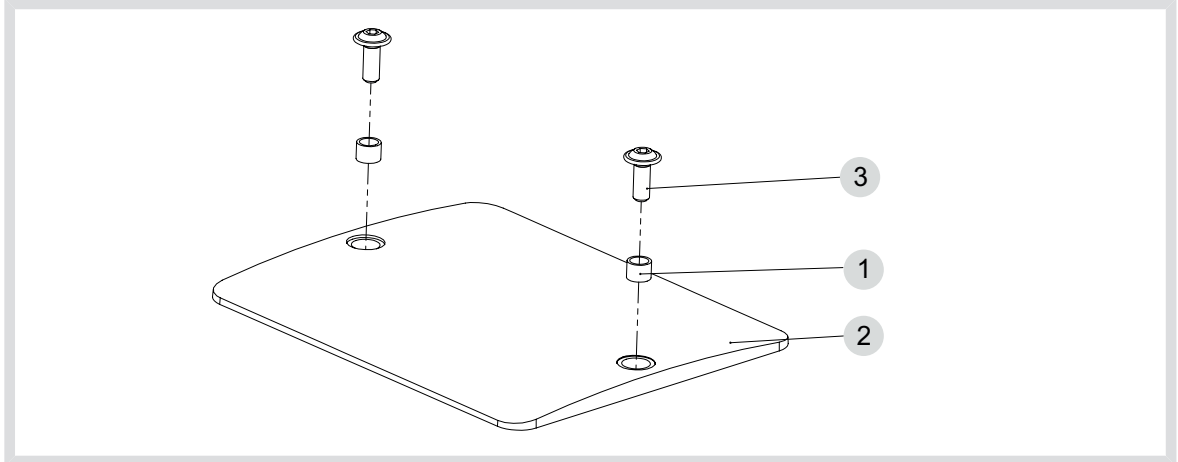
PARTS LIST 62

PWD 700 EVOLUTION RETAINING PLATE

Ref.	Part number	Description	Qty
	3 683 32 998	PWD 700 snap ring retaining plate kit	
1	5 675 01 153	Underside sleeve spacer	2
2	5 683 70 009	PWD 700 retaining plate	1
3	6 009 90 106	M3×8 pan head socket screw, stainless steel	2

DIAGRAM 62

PWD 700 EVOLUTION RETAINING PLATE



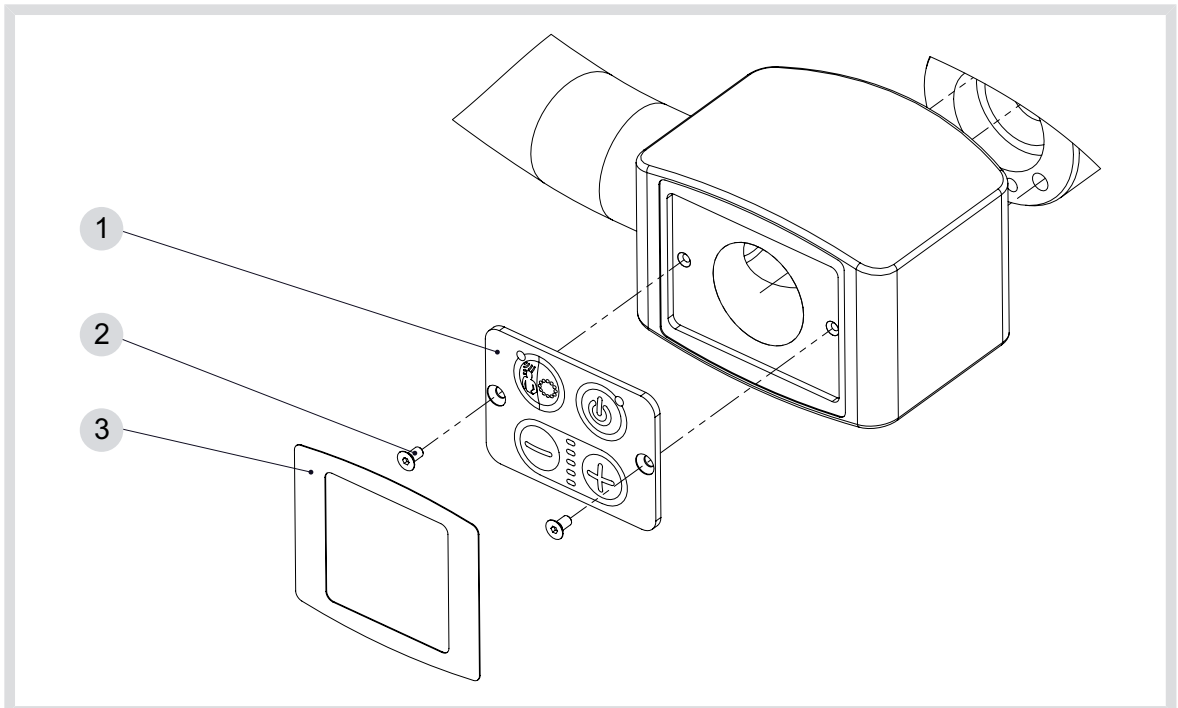
PARTS LIST 63

PWD 700/EVOLUTION KEYPAD

Ref.	Part number	Description	Qty
	3 683 29 555	PWD 700/500/300 fork dimmer keypad kit	
1	5 683 01 053	Fork control keypad	1
2	6 004 90 115	M3×8 socket head countersunk screw, stainless steel	2
3	5 683 01 064	Keypad protective film	1

DIAGRAM 63

PWD 700/EVOLUTION KEYPAD



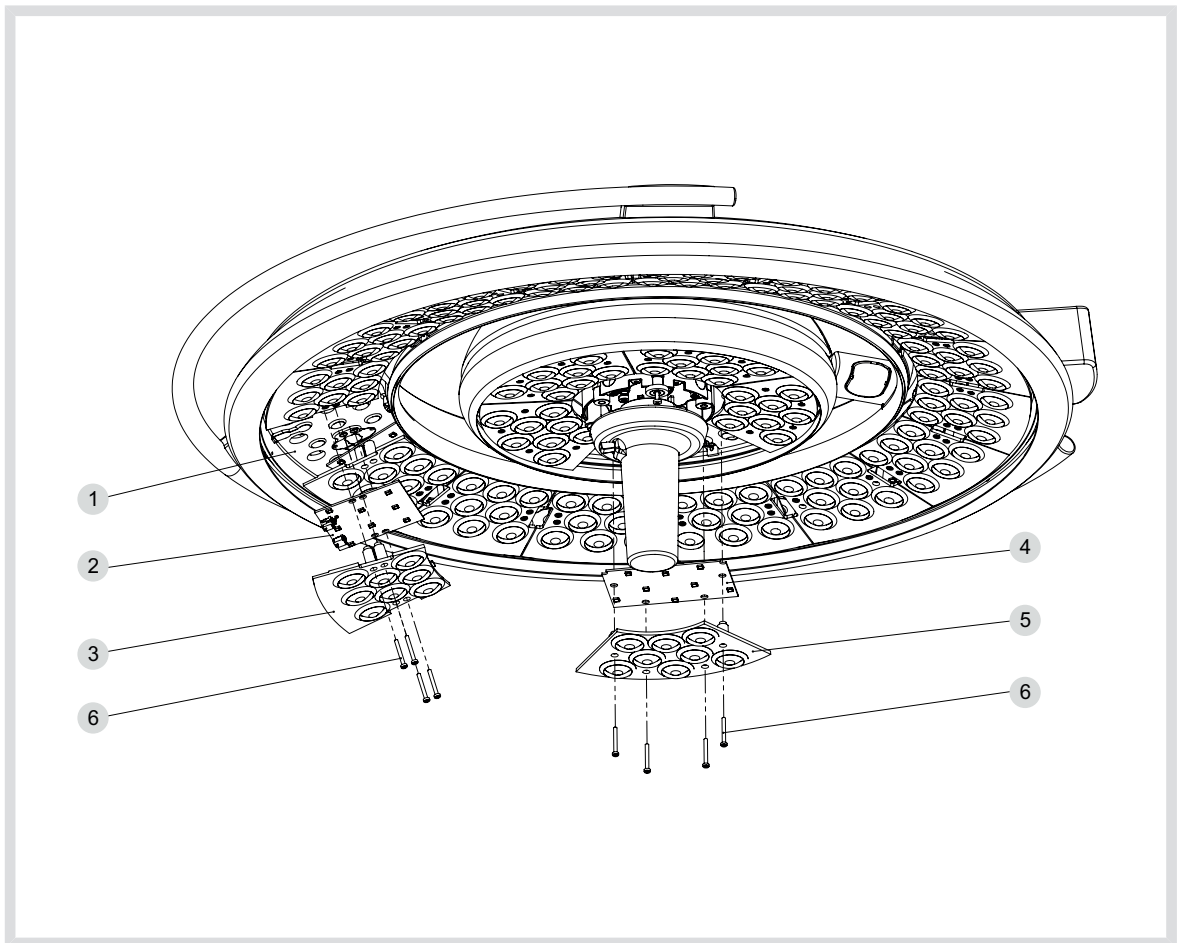
PARTS LIST 64

PWD 700 EVOLUTION LENSES AND LED BOARD

Ref.	Part number	Description	Qty
1	5 683 70 032	Machined lighthouse frame, RAL 9016	1
3 683 36 555 PWD 700 EVO T3K peripheral LED module kit			
2	5 683 70 001	Evolution T3K peripheral board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 37 555 PWD 700 EVO T4K peripheral LED module kit			
2	5 683 03 013	Evolution T4K peripheral board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 41 555 PWD 700/HLED 700 EVO peripheral lens kit			
3	5 683 70 056	Peripheral lens module	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 38 555 PWD 700 EVO T3K centre LED module kit			
4	5 683 70 002	Evolution T3K centre board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 39 555 PWD 700 EVO T4K centre LED module kit			
4	5 683 03 014	Evolution T4K centre board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 40 555 PWD 700 EVO/HLED 700 EVO centre lens kit			
5	5 683 70 005	Centre lens module	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4

DIAGRAM 64

PWD 700 EVOLUTION LENSES AND LED BOARD



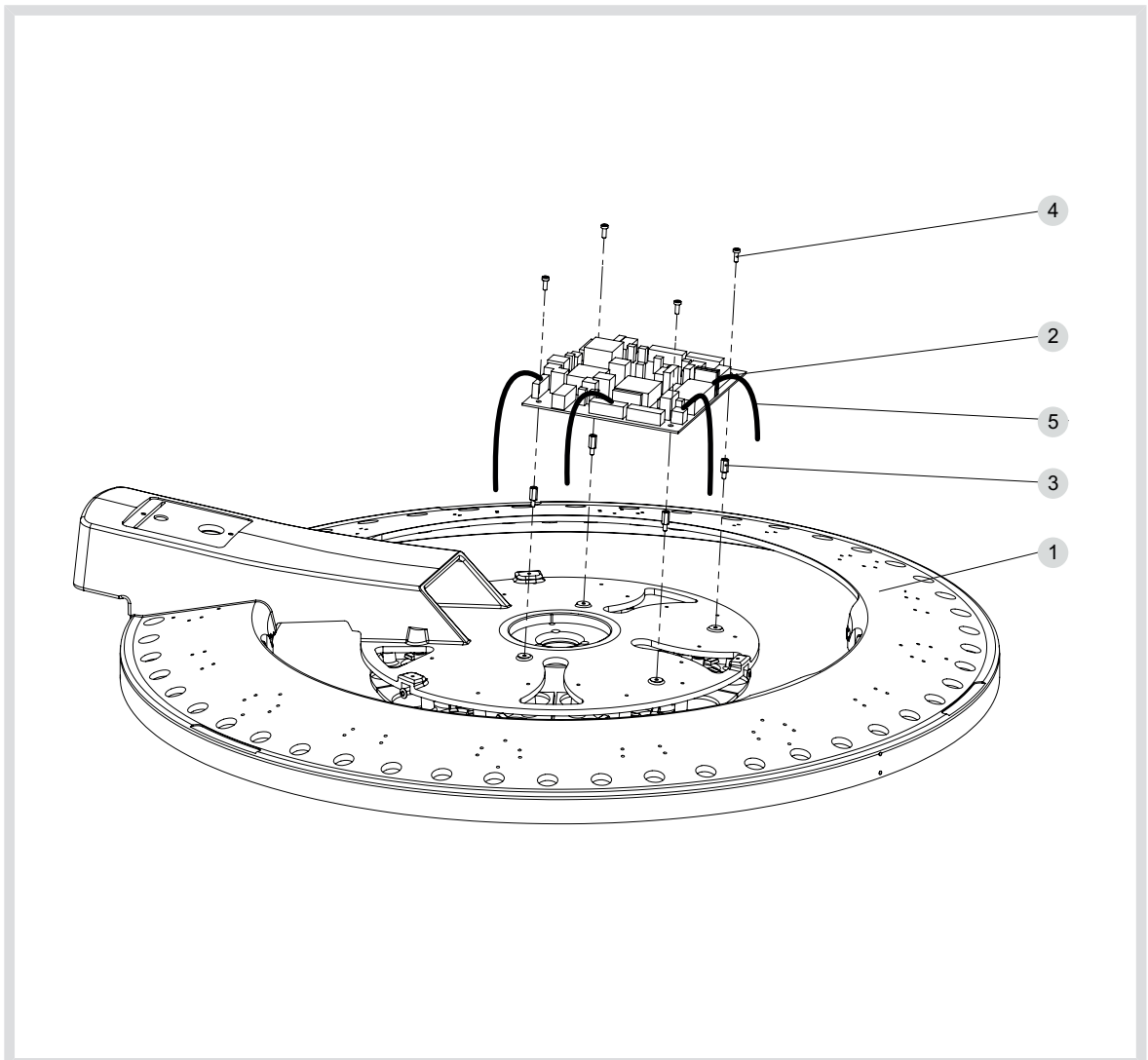
PARTS LIST 65

PWD 700 EVOLUTION HD OR STANDARD VIDEO CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 01 040	Machined lighthouse frame	1
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
2	5 683 01 500	Control board	1
3	6 951 00 532	M3-10 hexagonal M/F spacer	4
4	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
5	3 683 12 555	PWD cable kit	
	5 683 01 074	Video cable with connectors	1
	5 683 01 065	Peripheral cable 1	1
	5 683 01 066	Peripheral cable 2	1
	5 683 01 067	Peripheral cable 3	1
	5 683 01 068	Peripheral cable 4	1
	5 683 01 069	Centre LED circuit cable	1

DIAGRAM 65

PWD 700 EVOLUTION HD OR STANDARD VIDEO CONTROL BOARD



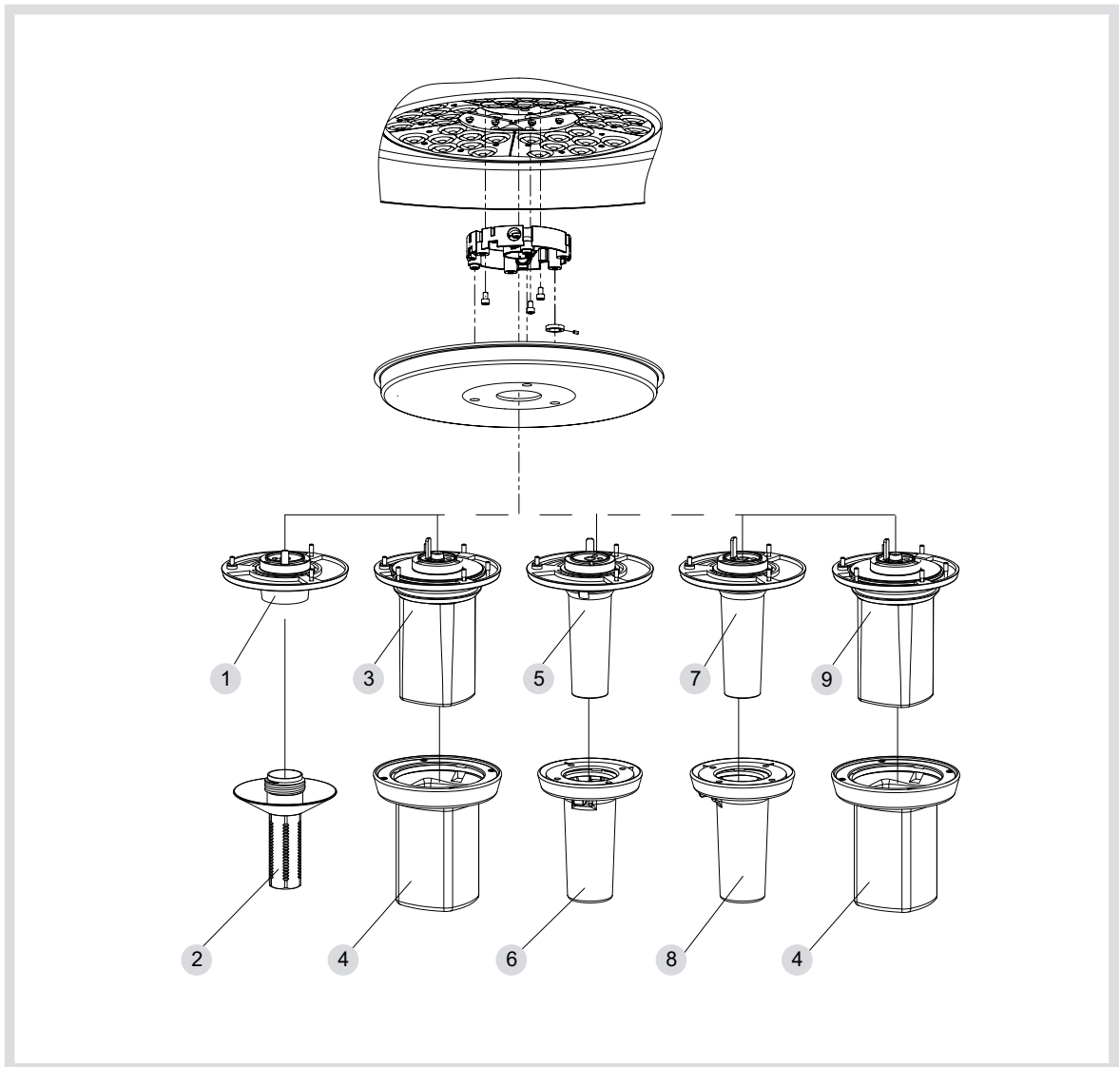
PARTS LIST 66

PWD 700 HANDLE

Ref.	Part number	Description	Qty
1	5 675 01 253	Devon & DeRoyal adapter	1
2		Devon handle	1
3	5 675 01 246	PAL zoom lens camera	1
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 678 40 998	Tilt handle S/A	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 675 01 245	PAL fixed focal length camera	1
	5 675 01 247	NTSC fixed focal length camera	1
8	3 672 03 975	Sterilisable handle for CFF camera	5
9	5 677 02 904	HD camera	1

DIAGRAM 66

PWD 700 HANDLE



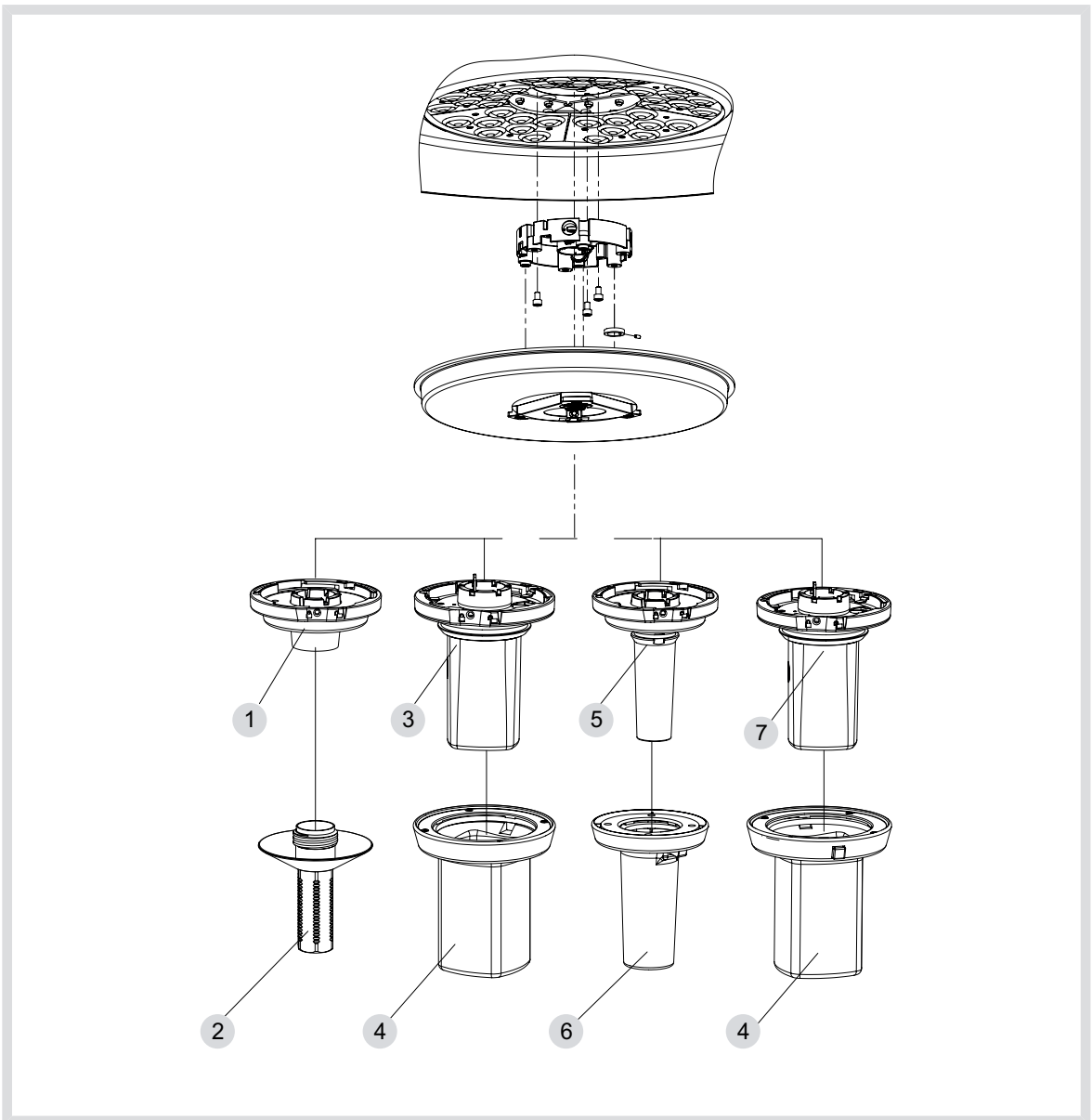
PARTS LIST 67

PWD 700 QUICK LOCK HANDLE

Ref.	Part number	Description	Qty
1	5 683 01 910	Quick Lock Devon & DeRoyal adapter	1
2		Devon handle	1
3	5 677 07 910	Quick Lock NTSC SD camera	1
	5 677 07 909	Quick Lock PAL SD camera	
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 683 40 998	PWD ALM Quick Lock handle mount	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 677 07 904	Quick Lock HD camera	1

DIAGRAM 67

PWD 700 QUICK LOCK HANDLE



16.12 PWD 700 Boost lighthouse

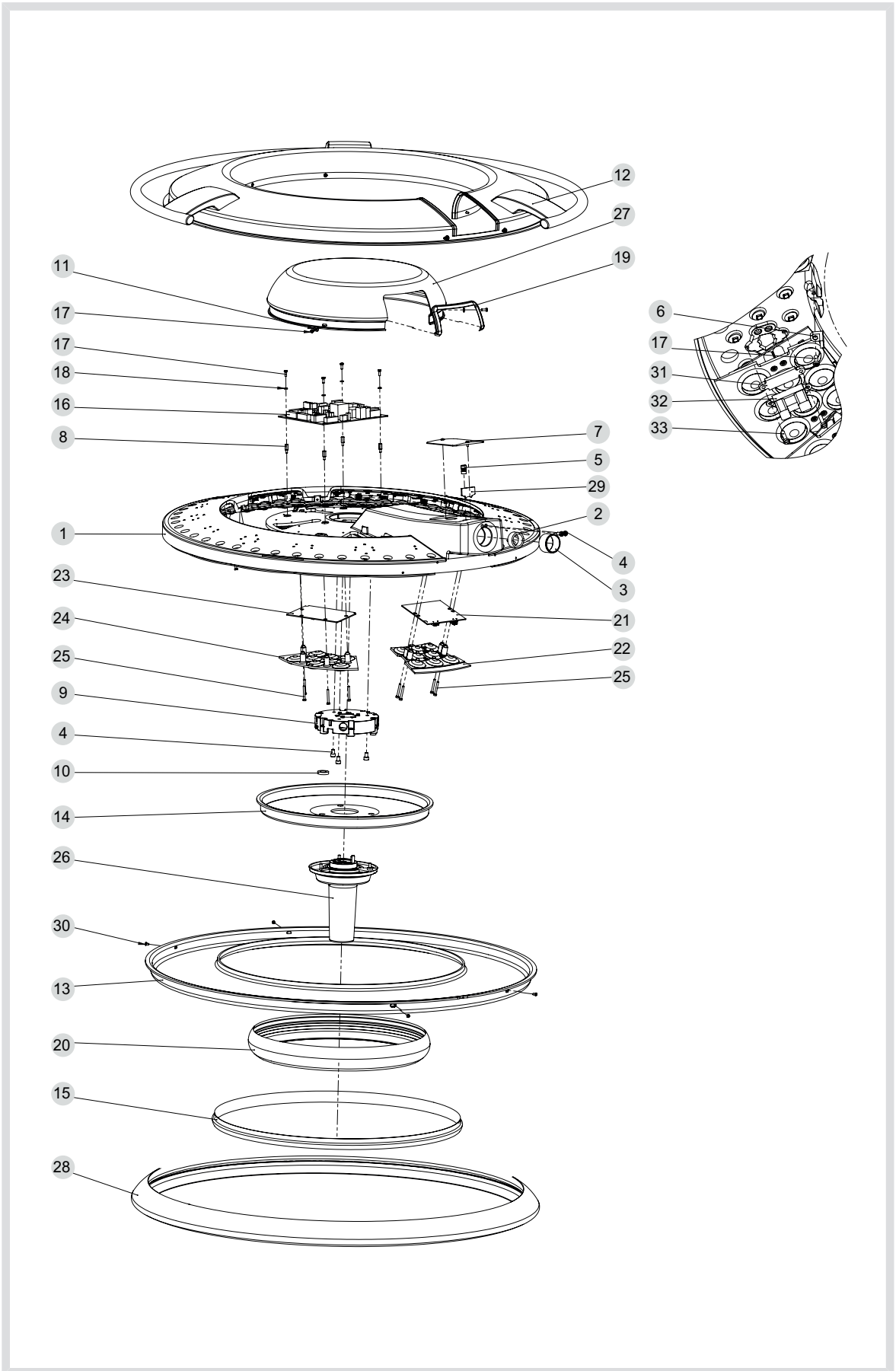
PARTS LIST 68

PWD 700 BOOST LIGHTHEAD (HD, WITH AIM OPTION)

Ref.	Part number	Description	Qty
1	5 683 70 032	PWD 700 Evolution RAL 9016 frame	1
2	6 236 22 006	Needle bush HK 2212	1
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	3 683 32 555	PWD 700 snap ring retaining plate kit	
	5 683 70 009	PWD 700 retaining plate	1
	5 675 01 153	Underside sleeve spacer	2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
	3 683 99 555	PWD/HLD 700/500/300/AX control board kit	
8	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
16	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
17	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
9	5 678 01 008	Cam mounting plate	1
10	5 683 50 060	Viewing washer	1
11	6 029 90 003	M3 serrated spring lock washer, stainless steel	3
12	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see relevant section)	1
	3 683 05 555	PWD underside kit	
13	5 683 01 020	Outer underside	1
14	5 683 01 021	Central underside	1
30	6 009 90 115	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4
	3 683 06 555	PWD seal kit	
15	5 683 01 023	Inner seal	1
19	5 683 01 055	Centre cover/wing seal	1
20	5 683 01 024	Centre peripheral seal	1
28	5 683 01 022	Grip seal	1
18	6 024 20 306	3 mm external tooth lock washer, stainless steel	4
	3 683 92 555	PWD/HLD 700 BOOST peripheral LED module kit	
21	5 683 70 510	BOOST 700 peripheral LED board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 93 555	PWD/HLD 700 BOOST centre LED module kit	
23	5 683 70 511	BOOST 700 centre LED board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
26	3 683 40 998	Tilt handle S/A	1
	3 683 07 555	PWD centre cover kit	
27	5 683 01 026	Centre shell	1
19	5 683 01 055	Centre cover/wing seal	1
	6 009 90 106	M3×8 pan head socket screw, stainless steel	3
	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
29	5 683 01 028	Snap ring	5
	3 683 09 555	PowerLED head detection kit	
32	5 683 01 141	Sharp 2Y0D02 sensor + connector	1
33	6 009 30 320	M3×20 slotted cheese head screw, nylon	2
31	5 683 01 210	Shim for AIM sensor	8
34	3 683 38 998	Quick Lock HD interface kit	1
	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 68

PWD 700 BOOST LIGHTHEAD (HD, WITH AIM OPTION)



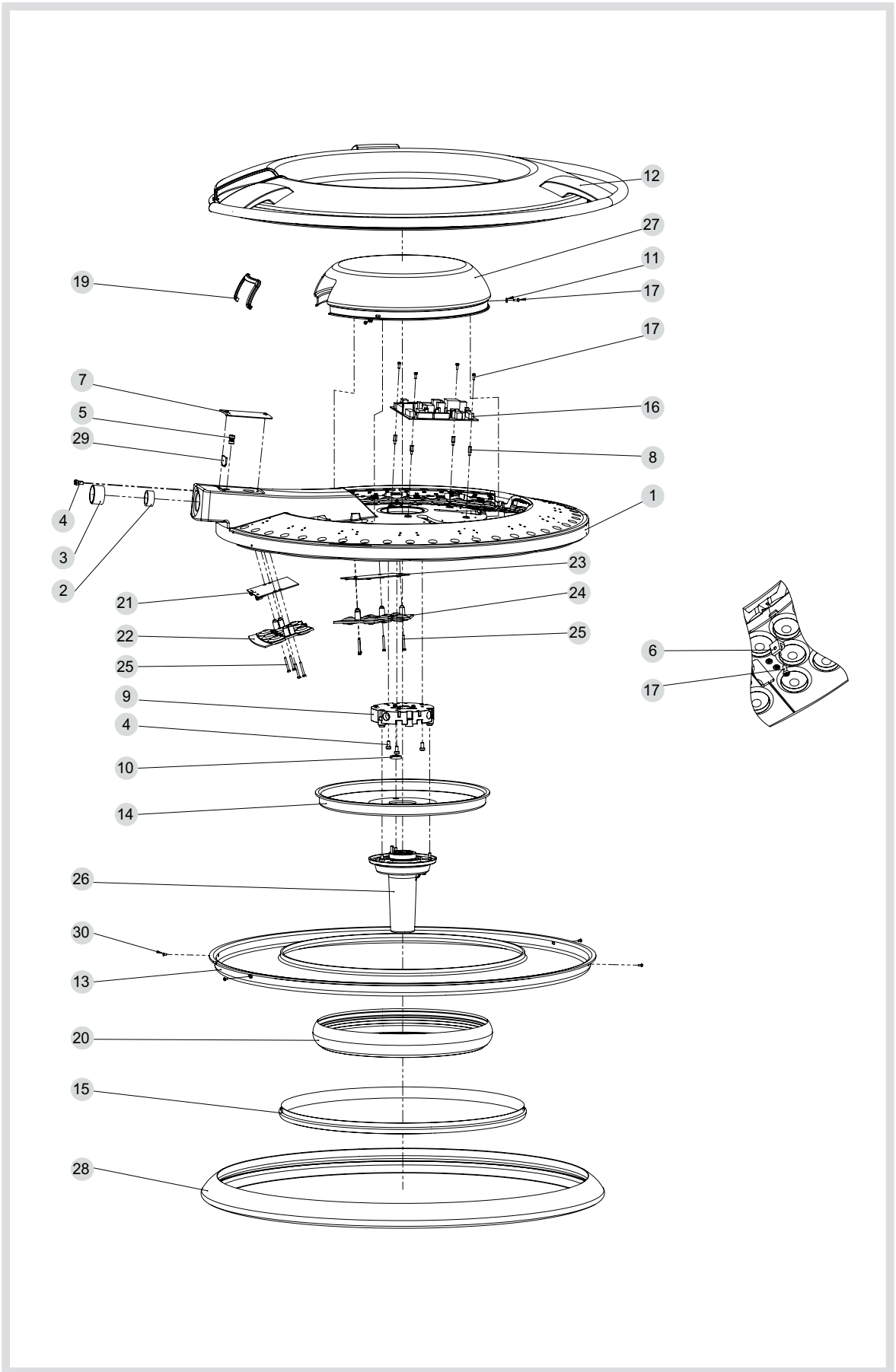
PARTS LIST 69

PWD 700 BOOST LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 70 032	PWD 700 Evolution RAL 9016 frame	1
2	6 236 22 006	Needle bush HK 2212	1
3	6 975 40 009	IGUS straight bushing GSM-3034-20	1
4	6 009 70 510	M5×10 hexalobular socket cheese head screw, stainless steel	5
5	5 683 01 096	M10×100 brake screw (L: 14 mm)	1
6	5 683 01 101	Cover fastening bracket	7
7	3 683 32 555	PWD 700 snap ring retaining plate kit	
	5 683 70 009	PWD 700 retaining plate	1
	5 675 01 153	Underside sleeve spacer	2
	6 009 90 106	M3×8 pan head socket screw, A2 stainless steel	2
	3 683 99 555	PowerLED 300/500/700 BOOST control board kit	
8	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
16	5 683 70 046	PWD 300/500/700/AX ROHS AXONE control board	1
17	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
9	5 678 01 008	Cam mounting plate	1
10	5 683 50 060	Viewing washer	1
11	6 029 90 003	M3 serrated spring lock washer, stainless steel	3
12	3 683 21 998	PWD 700/700 EVO peripheral cover kit with lighthouse handle (see relevant section)	1
	3 683 05 555	PWD underside kit	
13	5 683 01 020	Outer underside	1
14	5 683 01 021	Central underside	1
30	6 009 90 115	M3×6 socket head countersunk screw, A2 stainless steel, ISO 14581	4
	3 683 06 555	PWD seal kit	
15	5 683 01 023	Inner seal	1
19	5 683 01 055	Centre cover/wing seal	1
20	5 683 01 024	Centre peripheral seal	1
28	5 683 01 022	Grip seal	1
	3 683 92 555	PWD/HLD 700 BOOST peripheral LED module kit	
21	5 683 70 510	BOOST 700 peripheral LED board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
	3 683 93 555	PWD/HLD 700 BOOST centre LED module kit	
23	5 683 70 511	BOOST 700 centre LED board	1
25	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
26	3 683 40 998	PWD ALM Quick Lock handle mount	1
	3 683 07 555	PWD centre cover kit	
27	5 683 01 026	Centre shell	1
19	5 683 01 055	Centre cover/wing seal	1
	6 009 90 106	M3×8 pan head socket screw, stainless steel	3
28	5 683 01 022	Grip seal	1
	3 683 33 555	PWD 700 lighthouse snap ring kit (5 units)	
29	5 683 01 028	Snap ring	5
30	6 009 90 115	M3×6 Torx countersunk head screw, stainless steel, ISO 14581	4
31	3 683 38 998	Quick Lock HD interface kit	1
	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 69

PWD 700 BOOST LIGHTHEAD



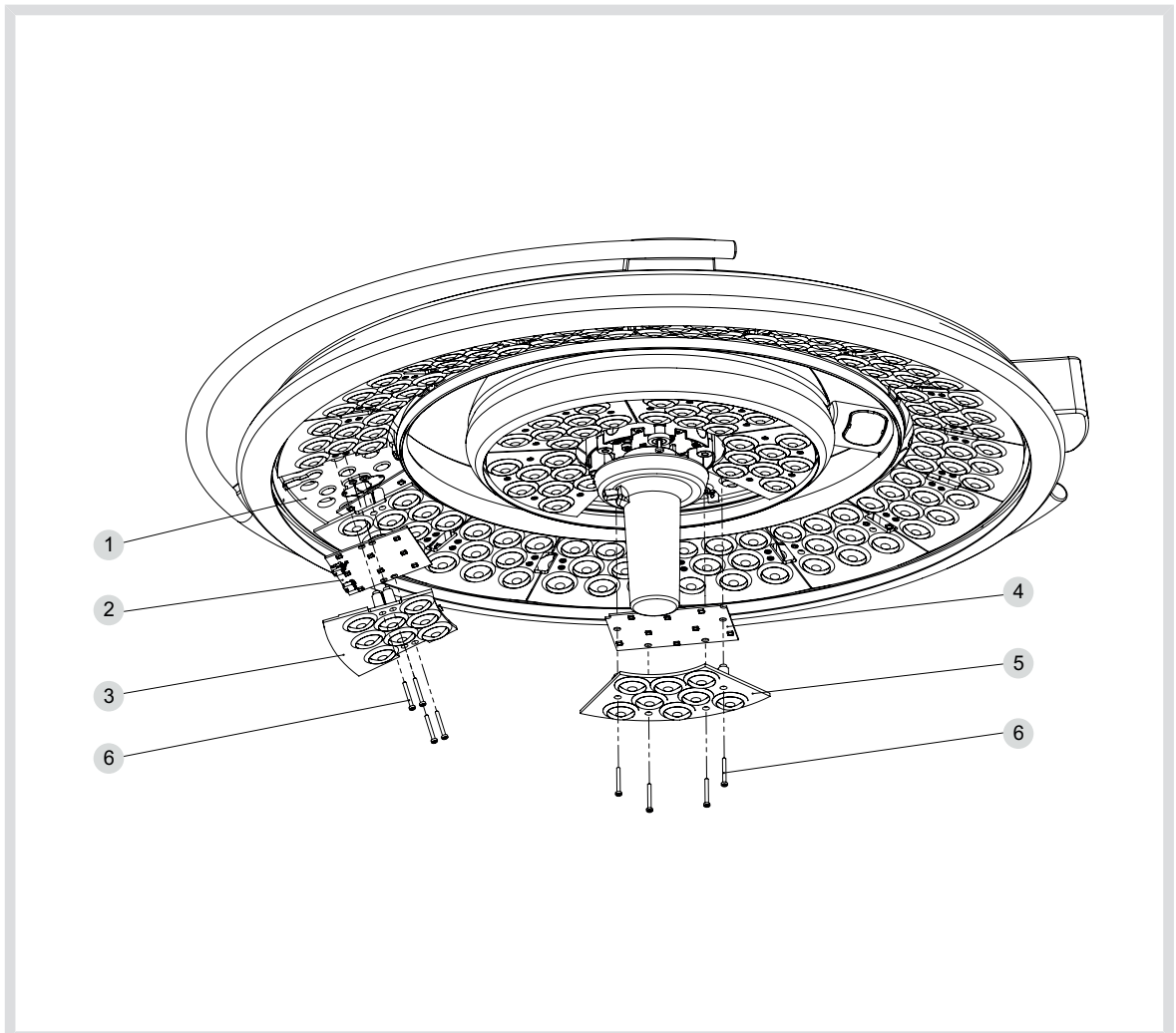
PARTS LIST 70

PWD 700 BOOST LENSES AND LED BOARD

Ref.	Part number	Description	Qty
1	5 683 70 032	Machined lighthouse frame, RAL 9016	1
3 683 92 555 PWD/HLD 700 BOOST peripheral LED module kit			
2	5 683 70 510	BOOST 700 peripheral LED board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4
3 683 93 555 PWD/HLD 700 BOOST centre LED module kit			
4	5 683 70 511	BOOST 700 centre LED board	1
6	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	4

DIAGRAM 70

PWD 700 BOOST LENSES AND LED BOARD



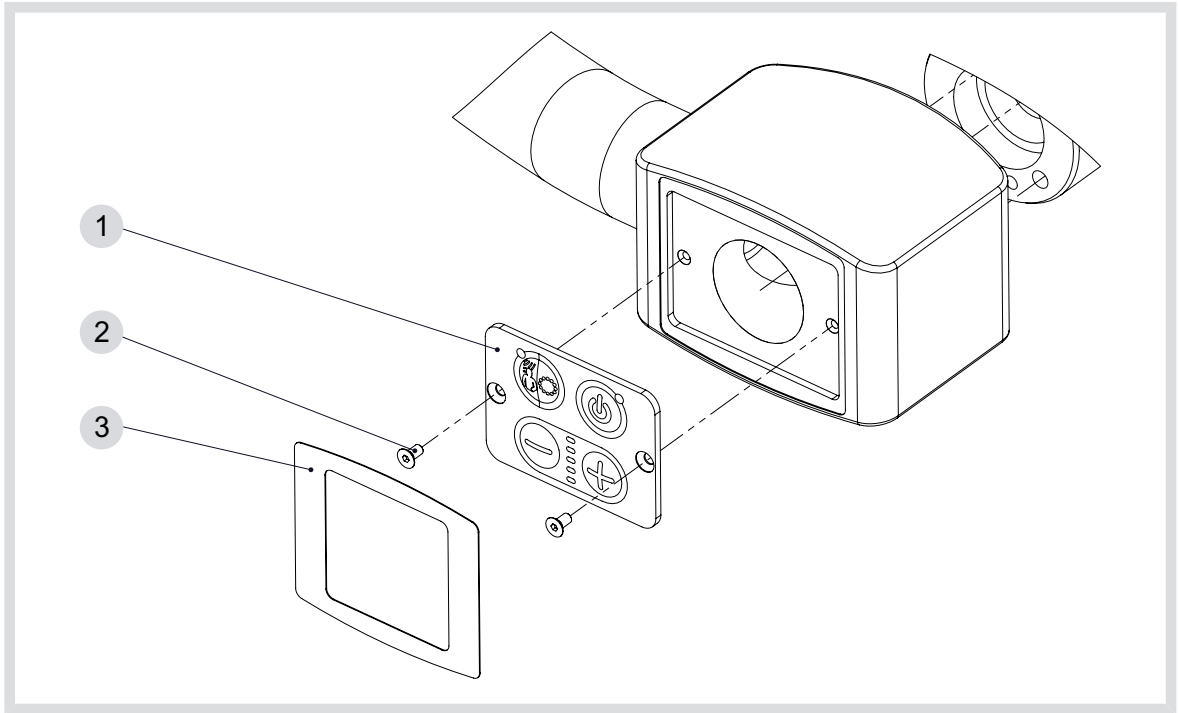
PARTS LIST 71

PWD 700 BOOST KEYPAD

Ref.	Part number	Description	Qty
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
1	5 683 10 915	Fork Lexan control panel	1
2	6 004 90 115	M3×8 socket head countersunk screw, stainless steel	2
3	5 683 01 164	Lexan panel protective film	1

DIAGRAM 71

PWD 700 BOOST KEYPAD



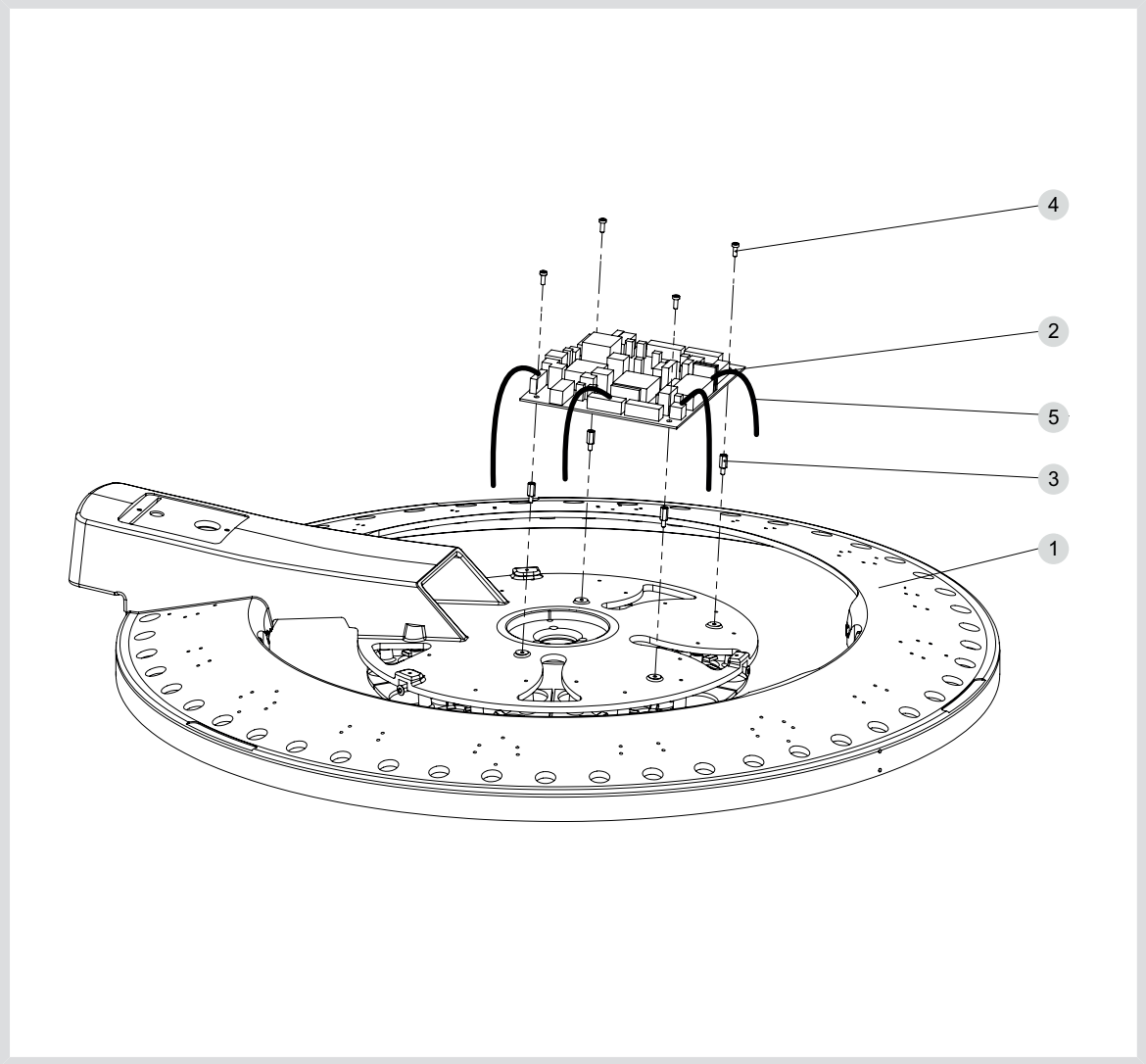
PARTS LIST 72

PWD 700 BOOST HD OR STANDARD VIDEO CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 01 040	Machined lighthouse frame	1
	3 683 99 555	PowerLED 300/500/700 BOOST control board kit	
2	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
3	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
4	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
5	3 683 12 555	PWD cable kit	
	5 683 01 074	Video cable with connectors	1
	5 683 01 065	Peripheral cable 1	1
	5 683 01 066	Peripheral cable 2	1
	5 683 01 067	Peripheral cable 3	1
	5 683 01 068	Peripheral cable 4	1
	5 683 01 069	Centre LED circuit cable	1

DIAGRAM 72

PWD 700 BOOST HD OR STANDARD VIDEO CONTROL BOARD



16.13 PWD 500 lighthouse

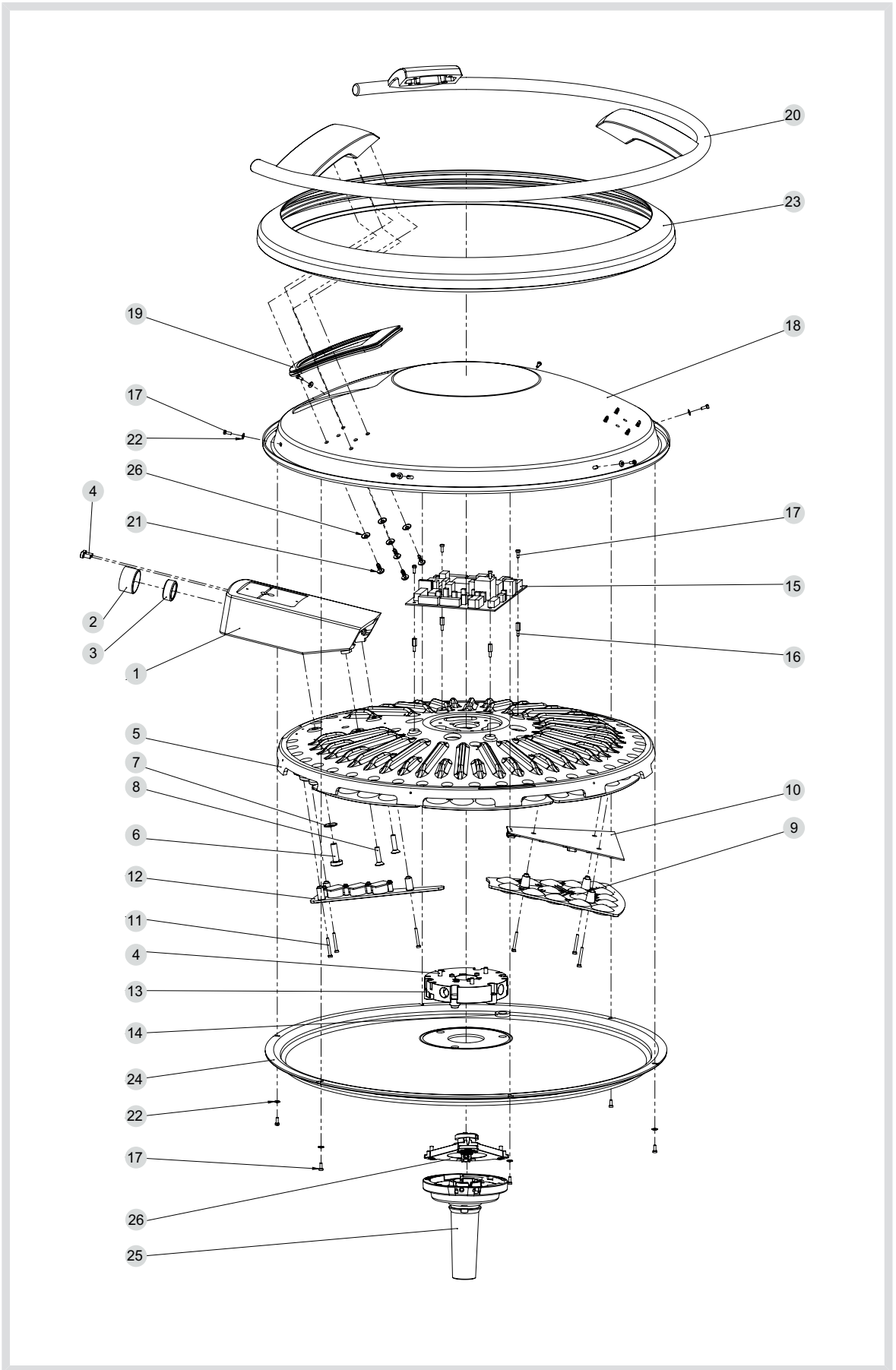
PARTS LIST 73

PWD 500 LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 50 022	RAL 9016 painted beam	1
2	6 975 40 009	IGUS straight bushing GSM-3034-20	1
3	6 236 22 006	Needle bush HK 2212	1
4	6 009 70 510	M5×10 cheese head screw, stainless steel	5
5	5 683 50 102	Machined frame	1
6	6 009 30 825	M8×25 pan head screw, stainless steel	1
7	6 029 90 008	M8 serrated spring lock washer, stainless steel	1
8	6 009 60 625	M6×25 countersunk head screw, stainless steel	2
	3 683 23 555	PWD 500 lens kit	
9	5 683 50 042	Lens module	1
11	6 009 70 325	M3×25 cheese head screw, stainless steel	3
	3 683 34 555	PWD 500 EVO T3K LED module kit	
10	5 683 50 518	500 N F3 T3K board	1
11	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 35 555	PWD 500 EVO T4K LED module kit	
10	5 683 50 517	500 N F3 T4K board	1
11	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
12	3 683 09 998	PWD 500 ambient LED module kit	
	5 683 50 122	PWD 500 RAL 7035 ambient module	1
	5 683 50 521	PWD 500 ambient LED cable	1
	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	2
	6 029 90 003	M3 serrated spring lock washer, stainless steel	4
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
13	5 678 01 008	Cam mounting plate	1
14	5 678 01 087	Viewing washer	1
	3 683 99 555	PWD/HLD 300/500/700 HD control board kit	
15	5 683 01 500	Control board	1
16	6 951 00 532	M3-10 hexagonal M/F spacer	4
17	6 005 20 308	M3×8 socket head cap screw, nickel-plated steel E27161	4
	3 683 25 555	PWD 500 underside kit	
17	6 009 50 308	M3×8 cheese head screw, stainless steel	
22	6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	
24	5 683 50 045	PWD 500 thermoformed underside	16
	3 683 24 555	PWD 500 seal kit	
19	5 683 50 041	RAL 7035 beam seal	1
23	5 683 50 116	RAL 7035 peripheral seal (Type 6)	1
25	3 683 40 998	PWD ALM Quick Lock handle mount	1
26	3 686 38 998	Quick Lock HD interface kit	1
	3 686 39 998	Quick Lock SD interface kit	1

DIAGRAM 73

PWD 500 LIGHTHEAD



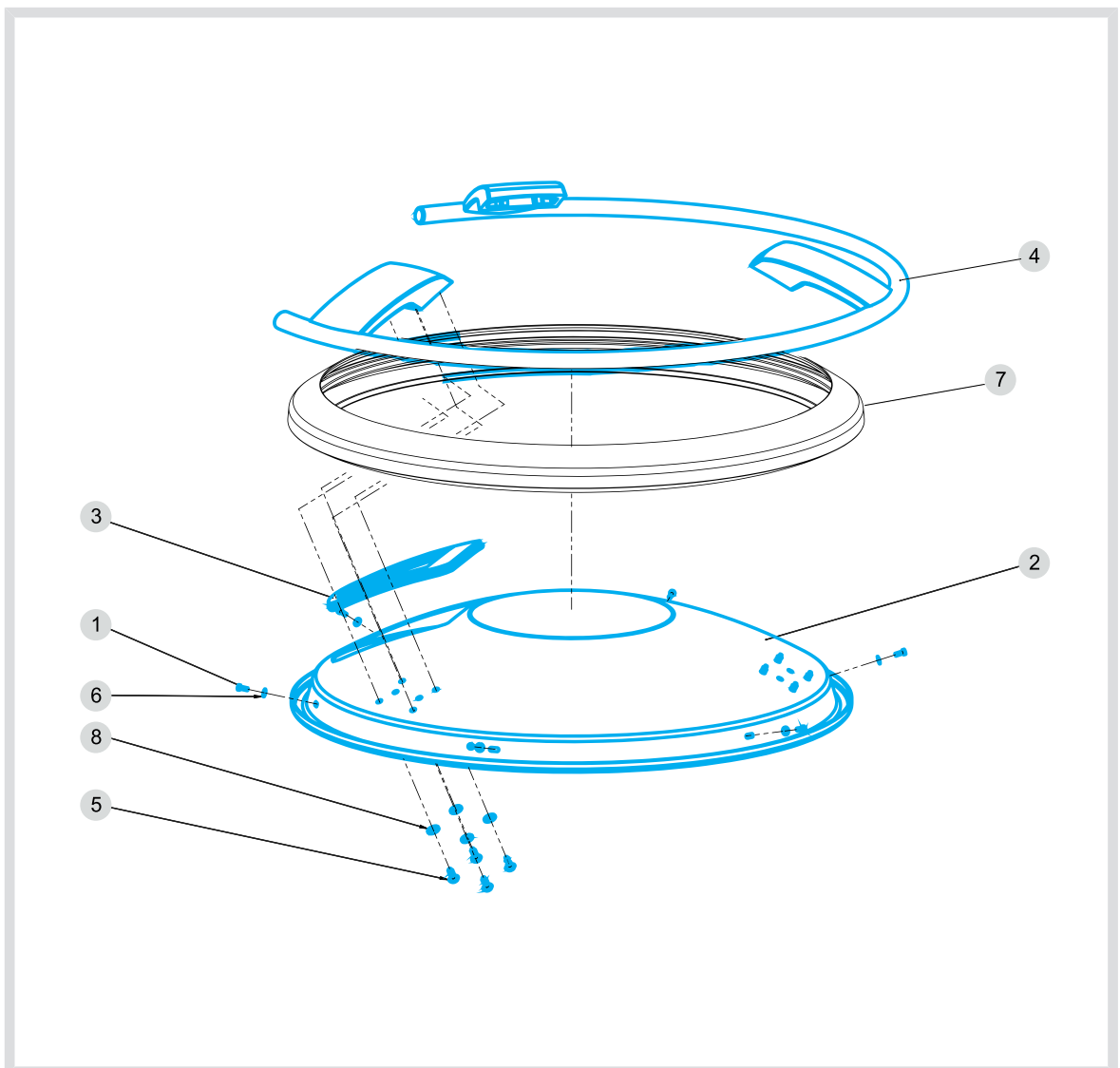
PARTS LIST 74

PWD 500 COVER

Ref.	Part number	Description	Qty
	3 683 30 998	PWD 500 cover kit with outer handle	
2	5 683 50 034	RAL 9016 painted shell	1
3	5 683 50 041	RAL 7035 beam seal	1
4	5 683 50 081	One-piece painted circular handle	1
5	6 009 90 114	EJOT Delta PT plastic screw, WN 1451 50-12	12
8	6 029 90 005	M5 serrated washer, A2 stainless steel, NFE 25-511	12
1	6 009 50 308	M3×8 cheese head screw, stainless steel	16
6	6 029 90 003	M3 serrated spring lock washer, stainless steel	6
	3 683 24 555	PWD 500 seal kit	
3	5 683 50 041	RAL 7035 beam seal	1
7	5 683 50 116	RAL 7035 peripheral seal (Type 6)	1

DIAGRAM 74

PWD 500 COVER



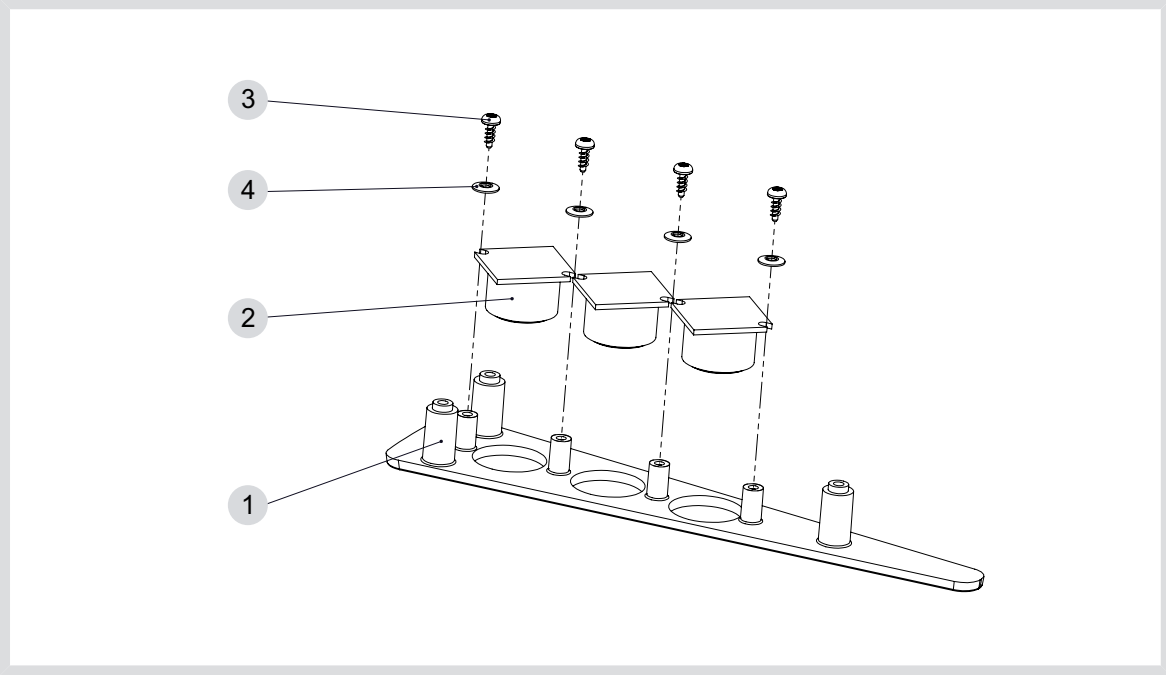
PARTS LIST 75

PWD 500 AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 09 998	PWD 500 ambient LED module kit	
1	5 683 50 122	PWD 500 RAL 7035 ambient module	1
2	5 683 50 521	PWD 500 ambient LED cable	1
3	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	4
3	6 029 90 003	M3 serrated spring lock washer, stainless steel	4
4	6 009 70 325	M3×25 cheese head screw (not shown)	3

DIAGRAM 75

PWD 500 AMBIENT LEDS



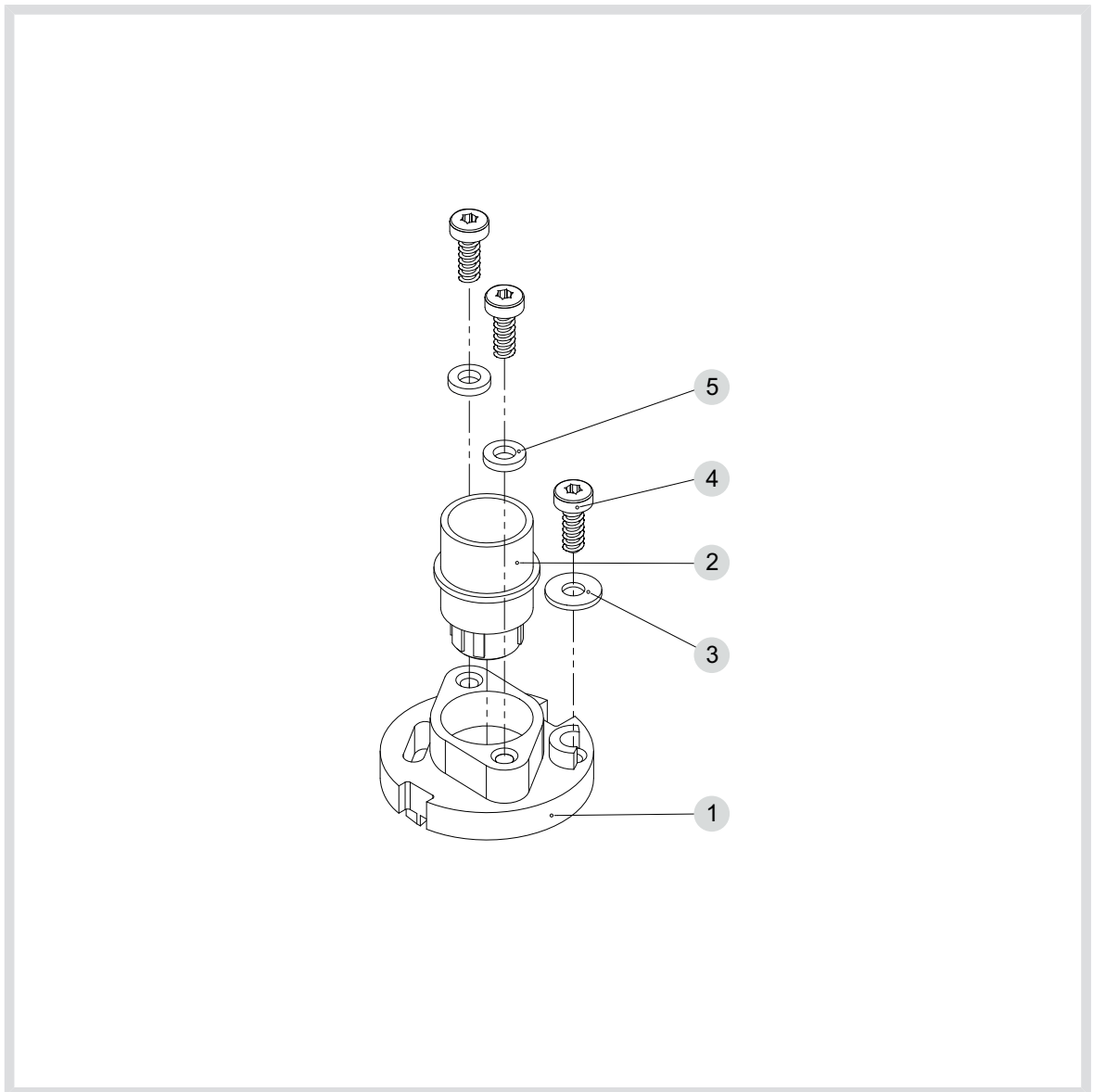
PARTS LIST 76

VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
2	5 683 01 074	Video cable	1
3	6 021 20 832	M3 washer	1
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	3
5	6 024 20 306	D3 external tooth lock washer	2

DIAGRAM 76

VIDEO CONNECTOR



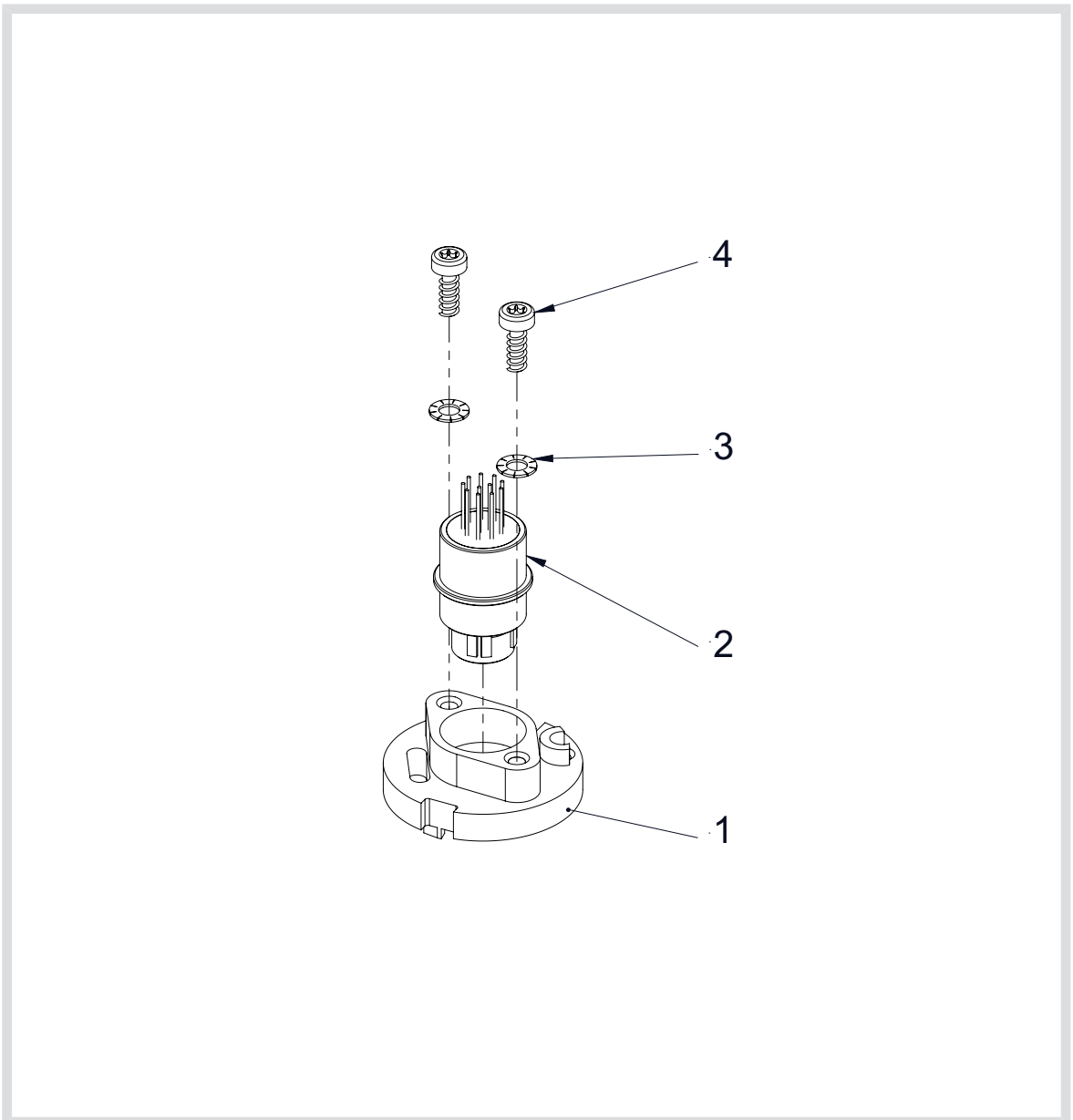
PARTS LIST 77

HD VIDEO CONNECTOR

Ref.	Part number	Description	Qty
1	5 675 01 207	Male video connector washer	1
3	6 024 20 306	D3 external tooth lock washer	2
4	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	2
2	3 683 88 555 5 677 05 122	PWD/HLD DF fork + V2 lighthouse HD cable kit HD camera video cable	1
2	3 683 89 555 5 677 05 122	SF fork + V2 lighthouse HD cable kit HD camera video cable	1

DIAGRAM 77

HD VIDEO CONNECTOR



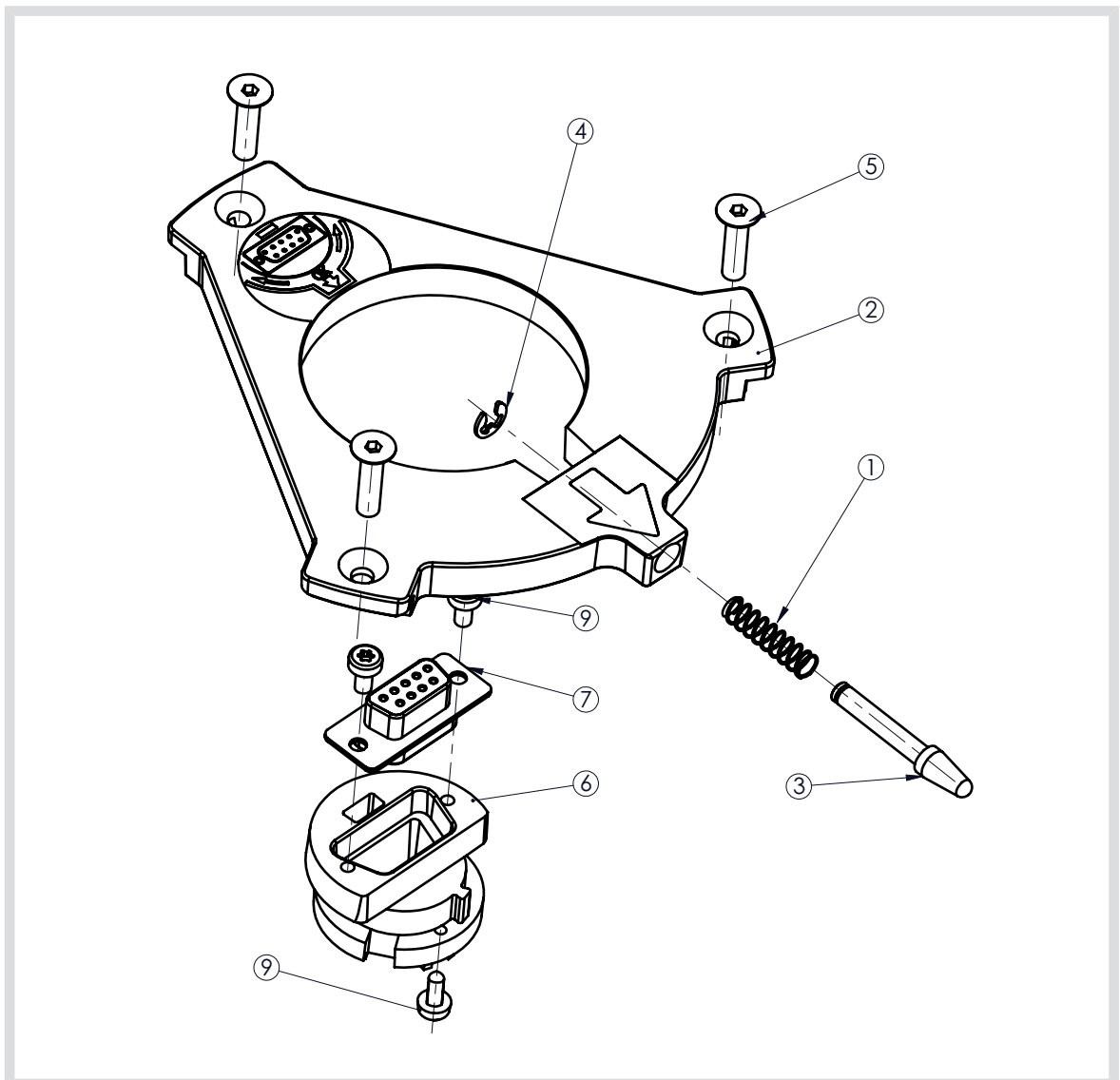
PARTS LIST 78

PWD 700/500 LIGHTHEAD QUICK LOCK INTERFACE

Ref.	Part number	Description	Qty
	3 683 39 998	Quick Lock SD interface kit	
	3 683 38 998	Quick Lock HD interface kit	
1	6 325 00 452	CP OLMA spring, stainless steel	1
2	5 677 07 016	Locking interface	1
3	5 677 07 017	Lock shaft	1
4	6 398 00 341	TUARC ring, diam. 3.2 mm, DIN 6799	1
5	6 004 10 420	M4×20 screw, ISO 10642, A2-70 stainless steel	3
6	5 677 07 008	Connector mount	1
7	5 683 01 525	SD video cable	1
	5 677 05 509	HD video cable	1
8	6 009 30 306	M3×6 thread-forming screw, DIN 7500, zinc-plated steel	3

DIAGRAM 78

PWD 700/500 LIGHTHEAD QUICK LOCK INTERFACE



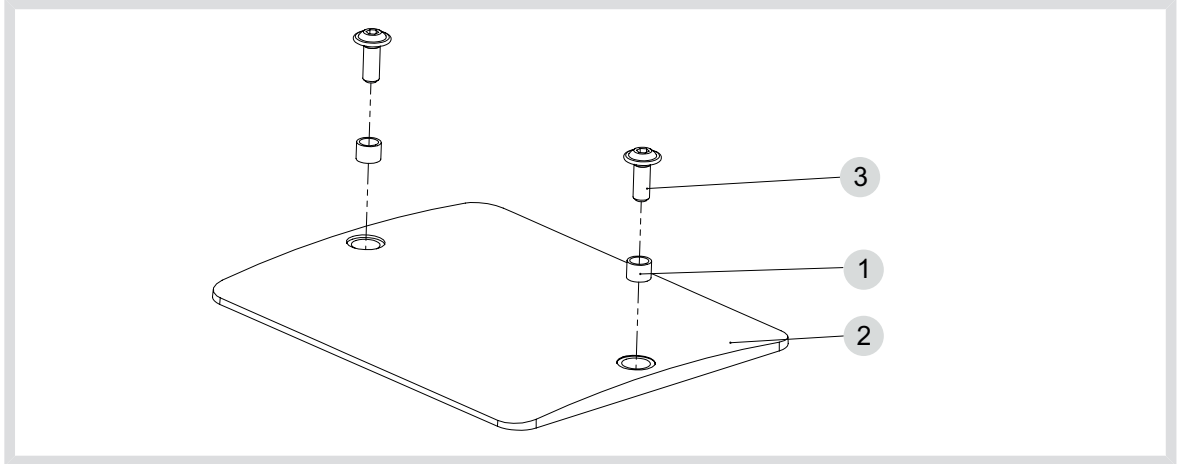
PARTS LIST 79

PWD 500 RETAINING PLATE

Ref.	Part number	Description	Qty
	3 683 32 998	PWD 700 snap ring retaining plate kit	
1	5 675 01 153	Underside sleeve spacer	2
2	5 683 70 009	PWD 700 retaining plate	1
3	6 009 90 106	M3×8 pan head socket screw, stainless steel	2

DIAGRAM 79

PWD 500 RETAINING PLATE



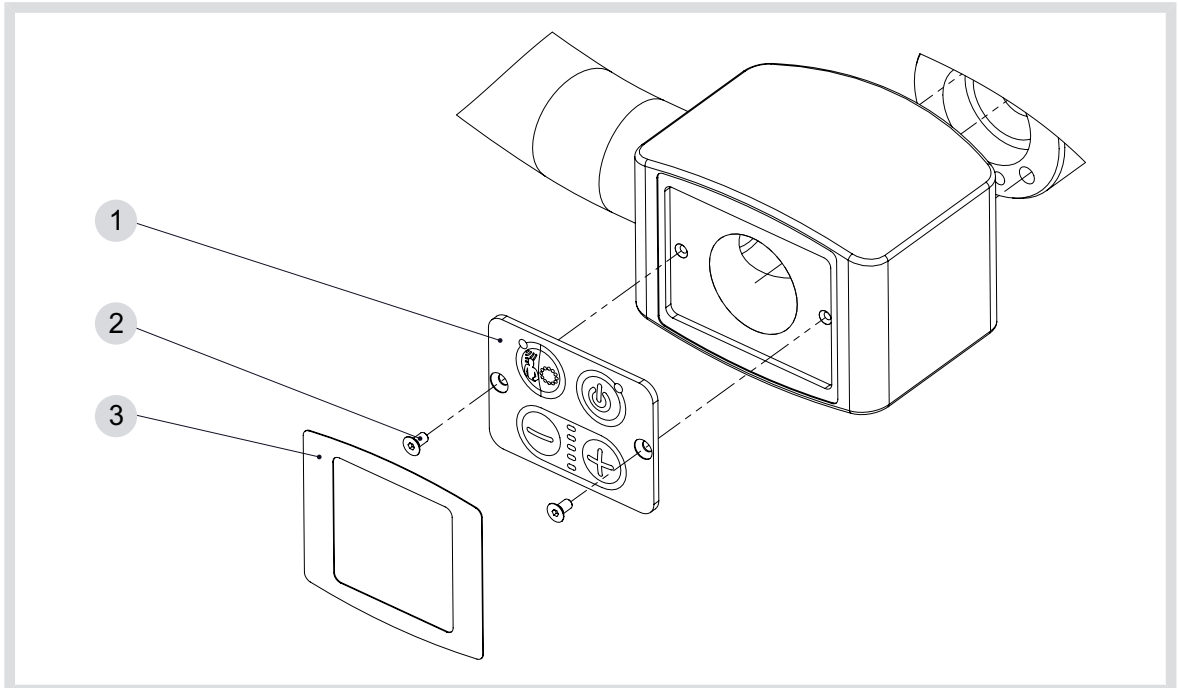
PARTS LIST 80

PWD 700/500/300 KEYPAD

Ref.	Part number	Description	Qty
	3 683 29 555	PWD 700 fork dimmer keypad kit	
1	5 683 01 153	Fork control keypad	1
2	6 004 10 308	M3×8 socket head countersunk screw, stainless steel	2
3	5 683 01 064	Keypad protective film	1

DIAGRAM 80

PWD 700/500/300 KEYPAD



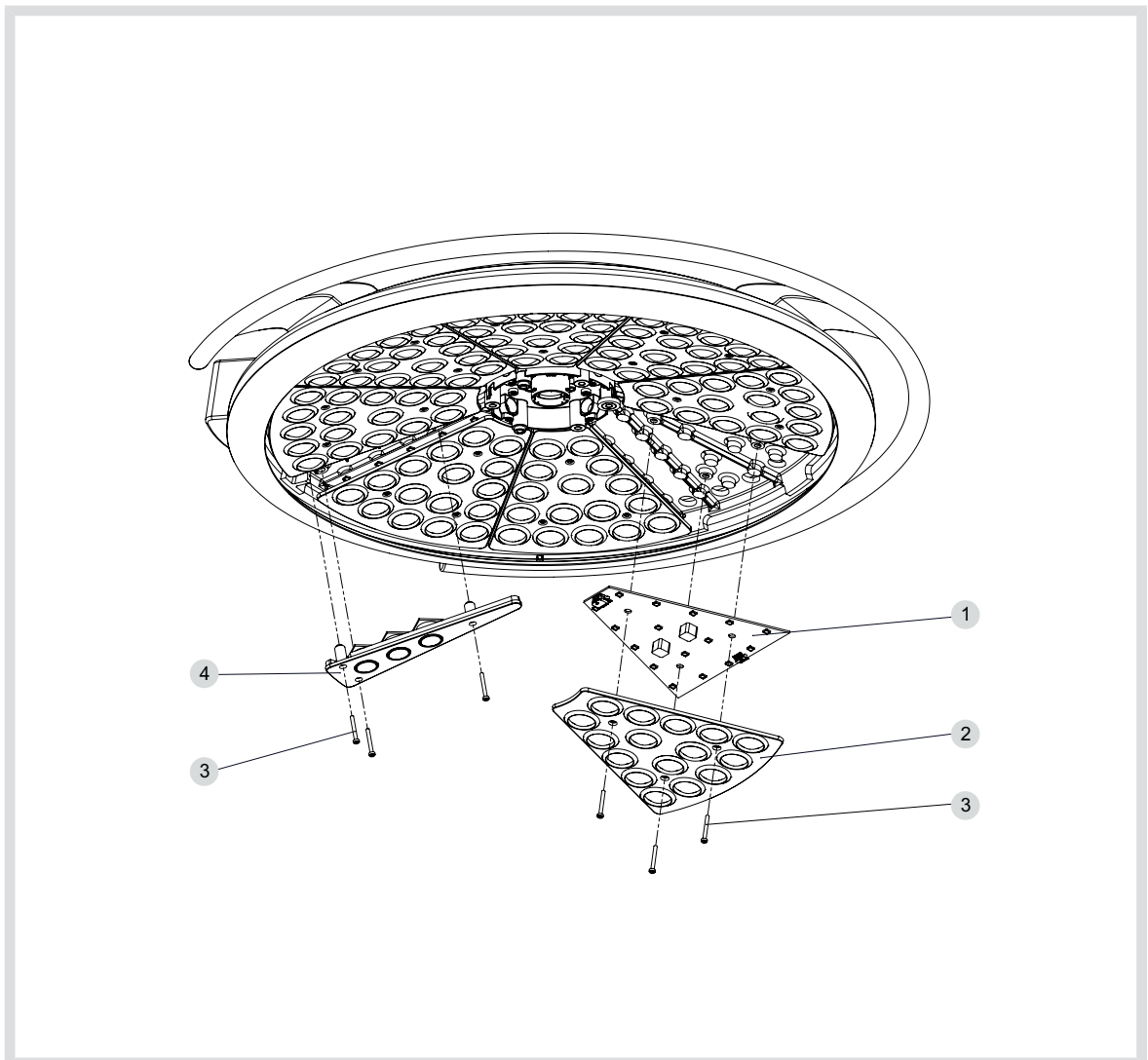
PARTS LIST 81

PWD 500 LENSES AND LED BOARD

Ref.	Part number	Description	Qty
	3 683 34 555	PWD 500 EVO T3K LED module kit	
1	5 683 50 518	500 N F3 T3K board	1
3	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 35 555	PWD 500 EVO T4K LED module kit	
1	5 683 50 517	500 N F3 T4K board	1
3	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 23 555	PWD 500 lens kit	
2	5 683 50 042	Lens module	1
3	6 009 70 325	M3×25 cheese head screw, stainless steel	3
	3 683 09 998	PWD 500 Ambient LED module kit	
3	6 009 70 325	M3×25 cheese head screw, stainless steel	3
4	5 683 50 209	PWD 500 ambient module S/A	1

DIAGRAM 81

PWD 500 LENSES AND LED BOARD



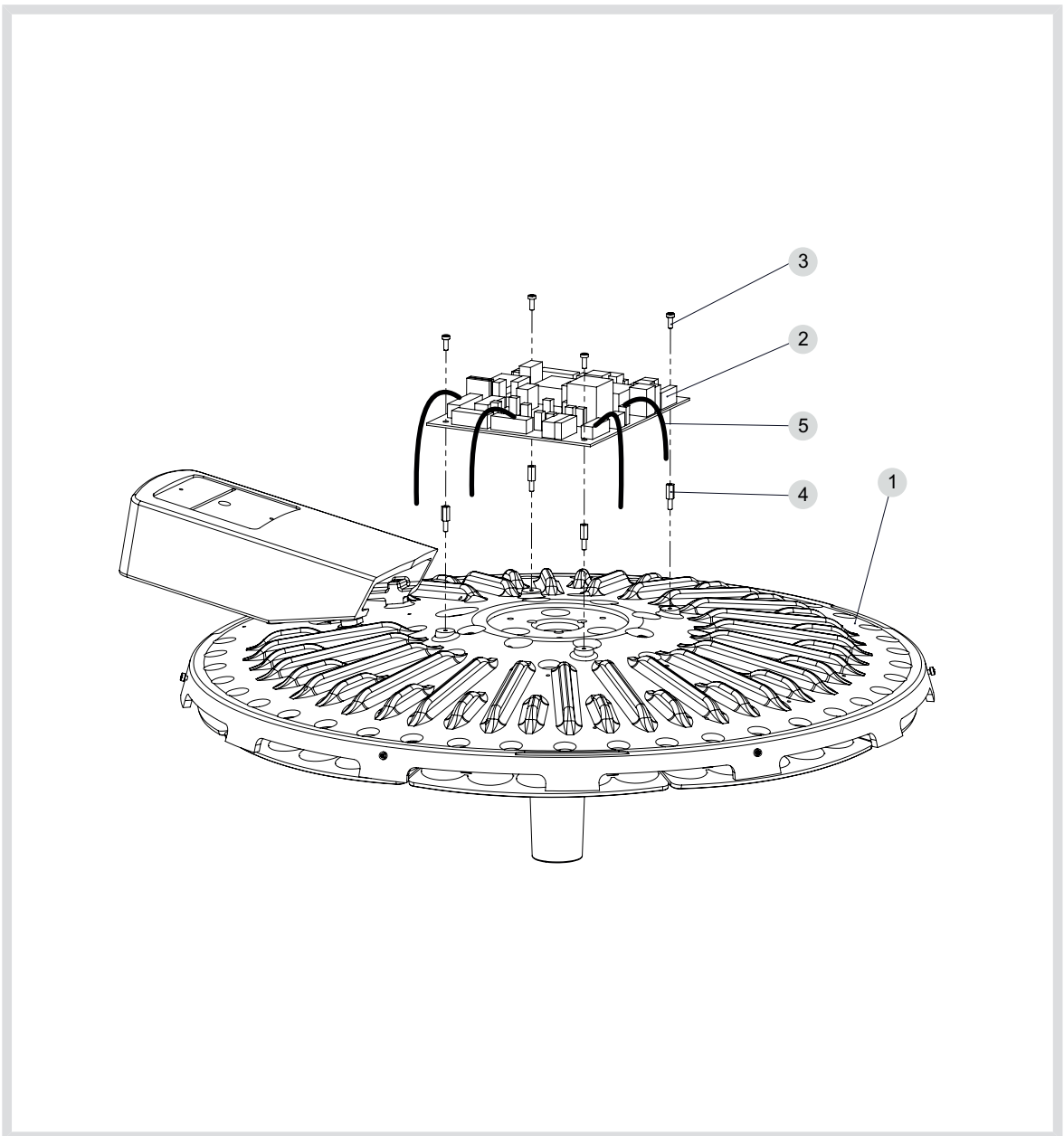
PARTS LIST 82

PWD 500 HD OR STANDARD VIDEO CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 50 012	Machined frame	1
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
2	5 683 01 500	Control board	1
3	6 009 50 308	M3×8 cheese head screw, stainless steel	4
4	6 951 00 532	M3-10 hexagonal M/F spacer	4
5	3 683 50 502	PWD 500 kit: four LED cables	

DIAGRAM 82

PWD 500 HD OR STANDARD VIDEO CONTROL BOARD



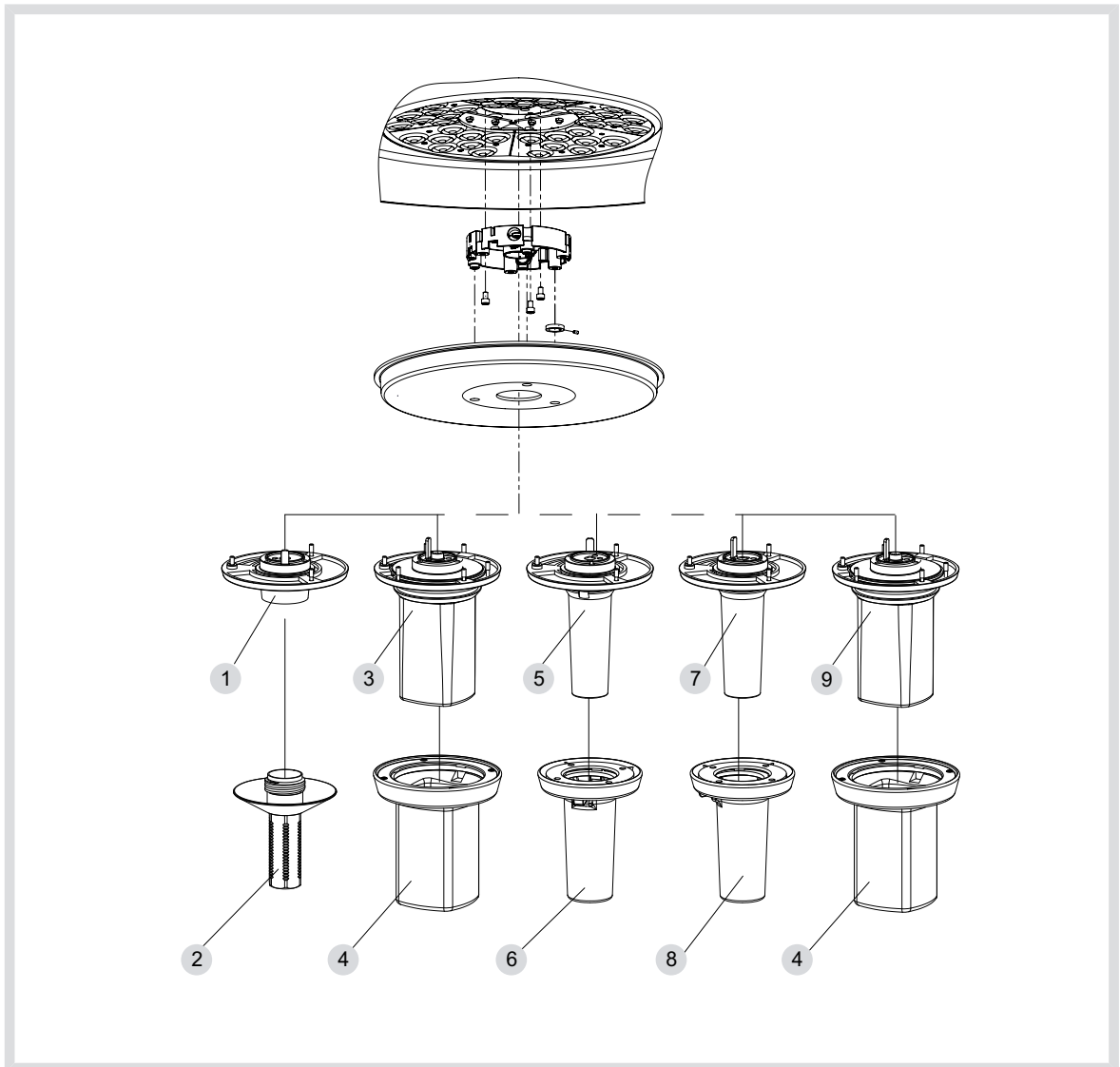
PARTS LIST 83

PWD 500 HANDLE

Ref.	Part number	Description	Qty
1	5 675 01 253	Devon & DeRoyal adapter	1
2		Devon handle	1
3	5 675 01 246	PAL zoom lens camera	1
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 678 40 998	Tilt handle S/A	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 675 01 245	PAL fixed focal length camera	1
	5 675 01 247	NTSC fixed focal length camera	1
8	3 672 03 975	Sterilisable handle for CFF camera	5
9	5 677 02 904	HD camera	1

DIAGRAM 83

PWD 500 HANDLE



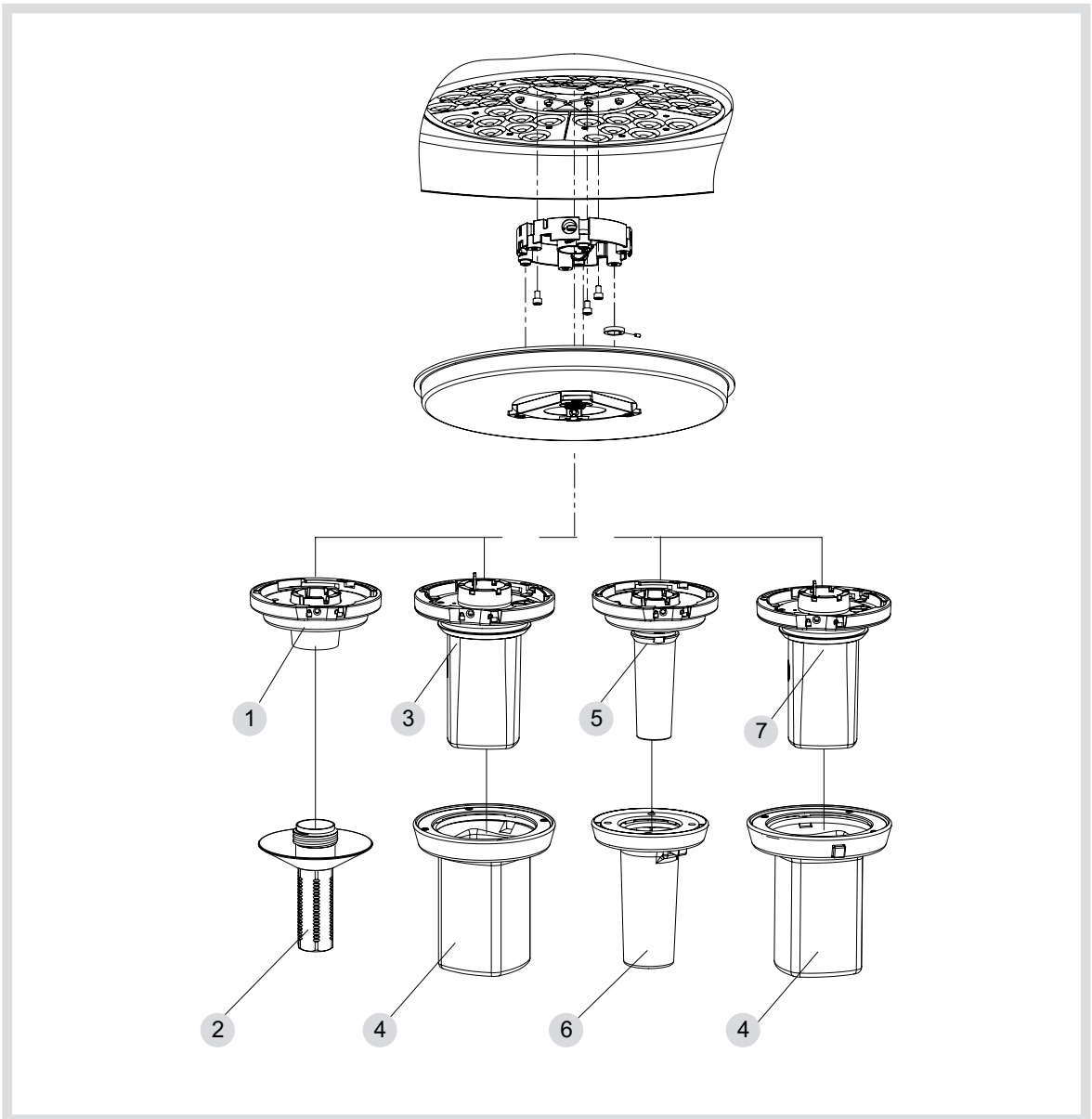
PARTS LIST 84

PWD 500 QUICK LOCK HANDLE

Ref.	Part number	Description	Qty
1	5 683 01 910	Quick Lock Devon & DeRoyal adaptor	1
2		Devon handle	1
3	5 677 07 910 5 677 07 909	Quick Lock NTSC SD camera Quick Lock PAL SD camera	1
4	5 672 03 901	Sterilisable handle for zoom lens video camera	1
5	3 683 40 998	PWD ALM Quick Lock handle mount	1
6	3 692 01 900	Set of five sterilisable handles	1
7	5 677 07 904	Quick Lock HD camera	1

DIAGRAM 84

PWD 500 QUICK LOCK HANDLE



16.14 PWD 500 Boost lighthouse

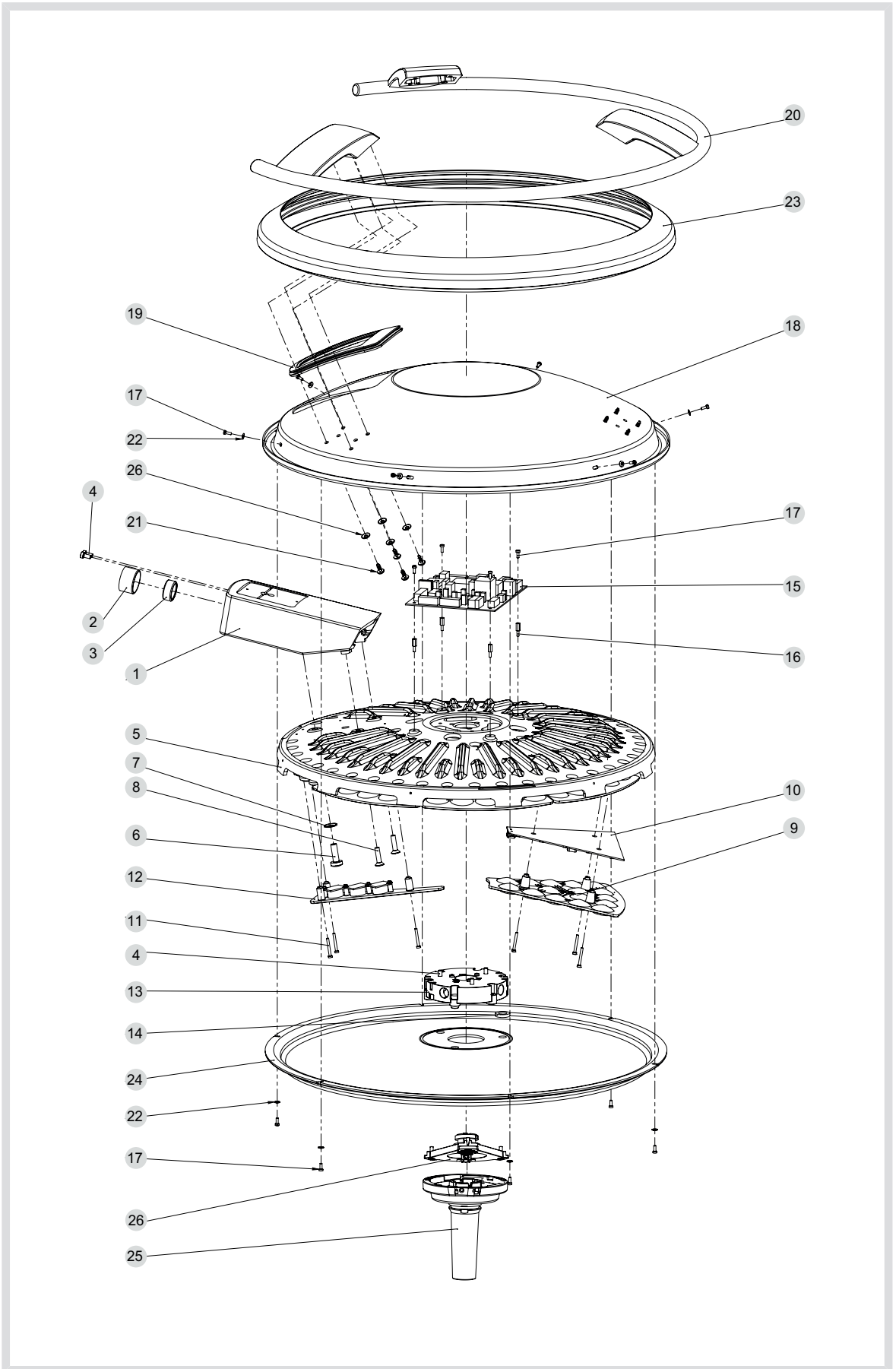
PARTS LIST 85

PWD 500 BOOST LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 50 022	RAL 9016 painted beam	1
2	6 975 40 009	IGUS straight bushing GSM-3034-20	1
3	6 236 22 006	Needle bush HK 2212	1
4	6 009 70 510	M5×10 cheese head screw, stainless steel	5
5	5 683 50 102	Machined frame	1
6	6 009 30 825	M8×25 pan head screw, stainless steel	1
7	6 029 90 008	M8 serrated spring lock washer, stainless steel	1
8	6 009 60 625	M6×25 countersunk head screw, stainless steel	2
	3 683 23 555	PWD 500 lens kit	
9	5 683 50 042	Lens module	1
11	6 009 70 325	M3×25 cheese head screw, stainless steel	3
	3 683 94 555	PWD/HLD 500 BOOST LED module kit	
10	5 683 50 522	BOOST 500 LED board	1
11	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 09 998	PWD 500 ambient LED module kit	
	5 683 50 122	PWD 500 RAL 7035 ambient module	1
	5 683 50 521	PWD 500 ambient LED cable	1
	6 009 90 062	EJOT screw, Delta PT, 30×8 WN 1452, A2-70 stainless steel	2
	6 029 90 003	M3 serrated spring lock washer, stainless steel	4
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
13	5 678 01 008	Cam mounting plate	1
14	5 683 50 060	Display ring	1
	3 683 99 555	PWD/HLD 700/500/300 Boost control board kit	
15	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
16	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
17	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
	3 683 25 555	PWD 500 underside kit	
17	6 009 50 308	M3×8 cheese head screw, stainless steel	
22	6 029 90 003	M3 Rip-Lock washer, A2 stainless steel NFE 25-511	16
24	5 683 50 045	PWD 500 thermoformed underside	
	3 683 01 998	PWD 500 cover kit with beam seal	
18	5 683 50 034	RAL 9016 painted shell	1
19	5 683 50 041	RAL 7035 beam seal	1
	3 683 24 555	PWD 500 seal kit	
19	5 683 50 041	RAL 7035 beam seal	1
23	5 683 50 116	RAL 7035 peripheral seal (Type 6)	1
	3 683 30 555	PWD 500 lighthouse outer handle	
20	6 009 50 080	One-piece painted circular handle	1
21	6 029 90 114	EJOT Delta PT plastic screw, WN 1451 50-12	12
26	6 029 90 005	M5 serrated washer, A2 stainless steel, NFE 25-511	12
25	3 683 40 998	PWD ALM Quick Lock handle mount	1
26	3 683 38 998	Quick Lock HD interface kit	1
	3 683 39 998	Quick Lock SD interface kit	1

DIAGRAM 85

PWD 500 BOOST LIGHTHEAD



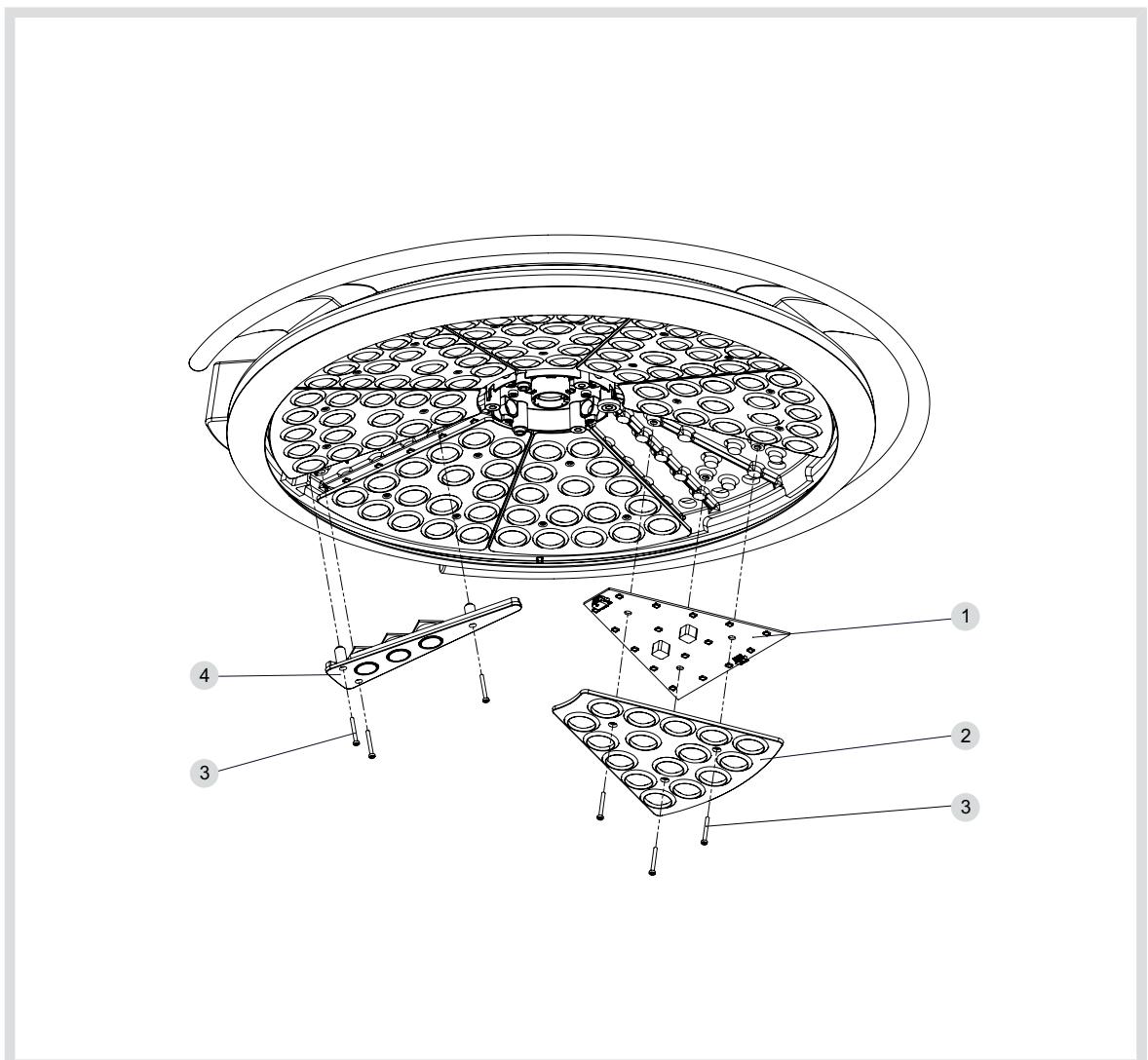
PARTS LIST 86

PWD 500 BOOST LENSES AND LED BOARD

Ref.	Part number	Description	Qty
	3 683 94 555	PWD/HLD 500 BOOST LED module kit	
1	5 683 50 522	BOOST 500 LED board	1
3	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 23 555	PWD 500 lens kit	
2	5 683 50 042	Lens module	1
3	6 009 70 325	M3×25 cheese head screw, stainless steel	3
	3 683 09 998	PWD 500 Ambient LED module kit	
3	6 009 70 325	M3×25 cheese head screw, stainless steel	3
4	5 683 50 209	PWD 500 ambient module S/A	1

DIAGRAM 86

PWD 500 BOOST LENSES AND LED BOARD



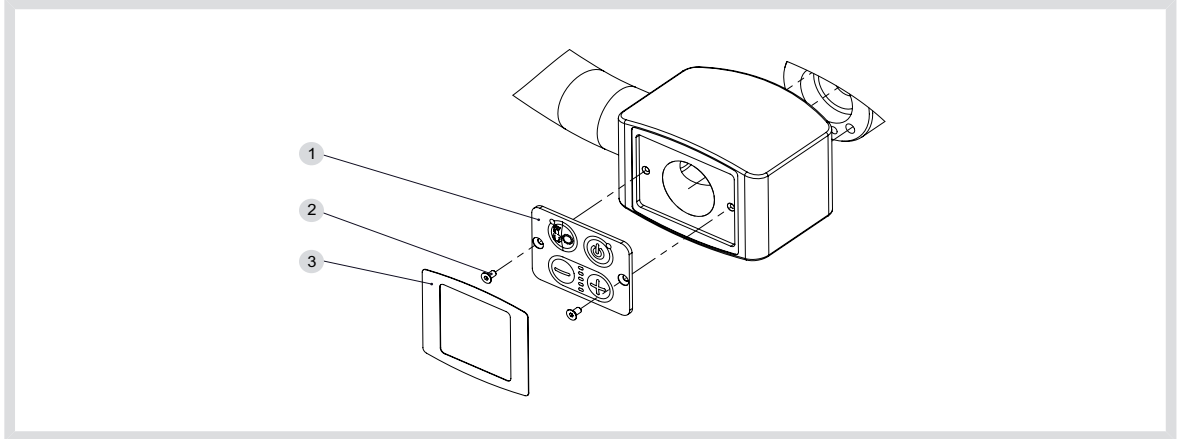
PARTS LIST 87

PWD 700/500/300 BOOST KEYPAD

Ref.	Part number	Description	Qty
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
1	5 683 10 915	Fork Lexan control panel	1
2	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
3	5 683 01 164	Lexan panel protective film	1

DIAGRAM 87

PWD 700/500/300 BOOST KEYPAD



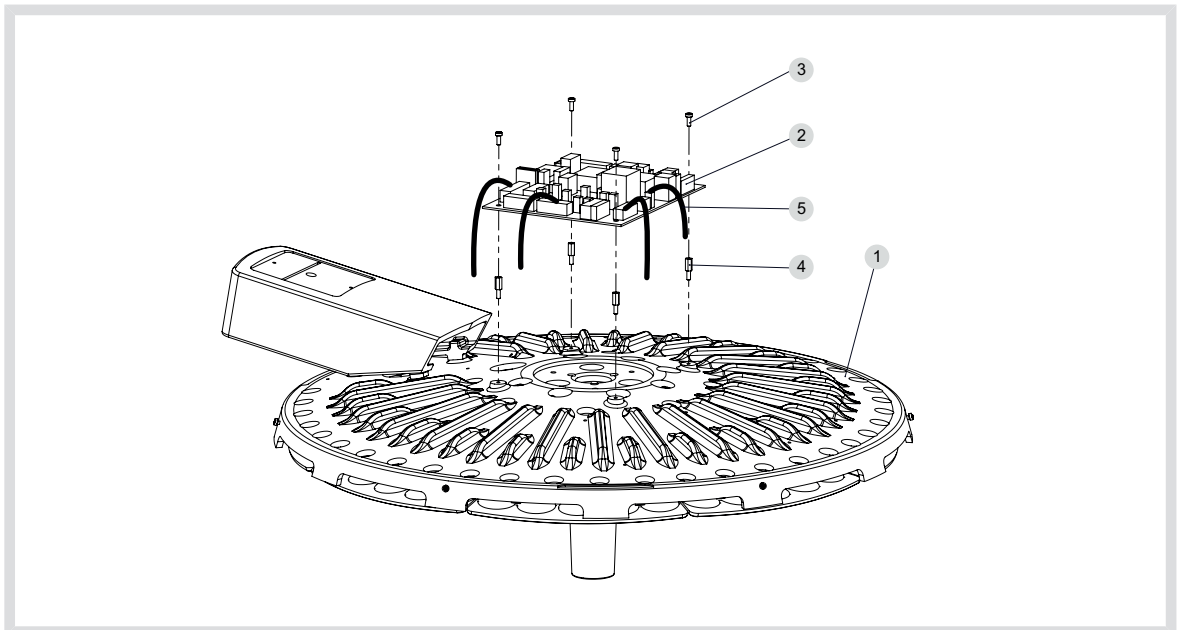
PARTS LIST 88

PWD 500 BOOST HD OR STANDARD VIDEO CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 50 012	Machined frame	1
	3 683 99 555	PWD/HLD 700/500/300 Boost control board kit	
2	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
3	6 009 50 308	M3×8 hexalobular socket cheese head screw, stainless steel	4
4	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
5	3 683 50 502	PWD 500 kit: four LED cables	

DIAGRAM 88

PWD 500 BOOST HD OR STANDARD VIDEO CONTROL BOARD



16.15 PWD 300 lighthouse

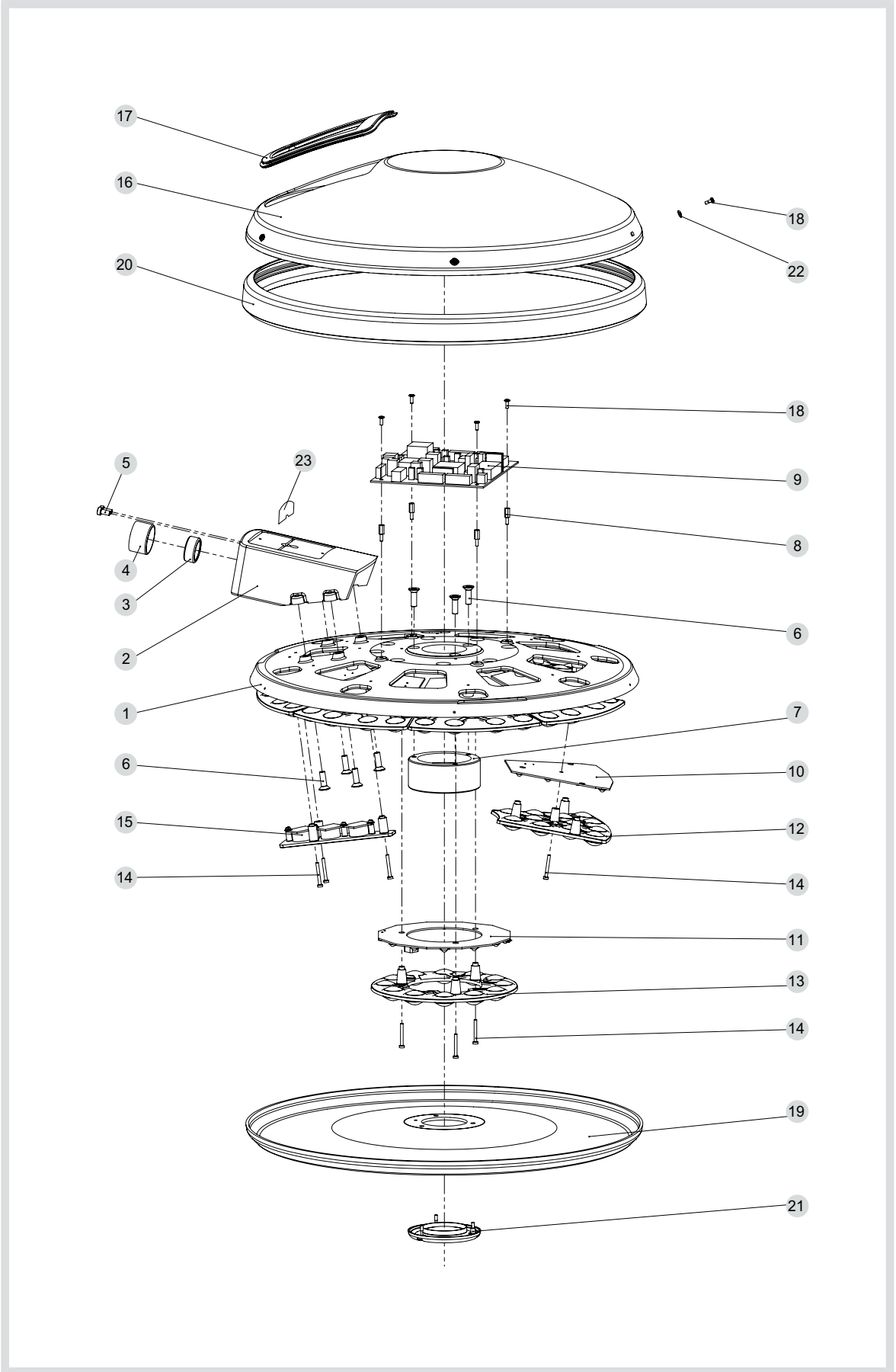
PARTS LIST 89

PWD 300 LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 30 012	PWD 300 machined frame	1
2	5 683 30 022	PWD 300 beam (RAL 9016)	1
3	6 236 22 006	Needle bush HK 2212	1
4	6 975 40 009	IGUS straight bushing GSM-3034-20	1
5	6 009 70 510	M5×10 cheese head screw, stainless steel	2
6	6 009 60 620	M6×20 countersunk head screw, stainless steel	7
7	5 683 30 055	PWD 300 RAL 9005 spacer	1
	3 683 99 555	PWD/HLD 300/500/700 HD control board kit	
8	6 951 00 532	M3 hexagonal spacer (L: 10 mm)	4
9	5 683 01 500	PWD 300-500-700 control board	1
18	6 009 70 308	M3×8 hexalobular socket extra low cheese head screw, s. steel	4
10	3 683 52 555	PWD 300 K3 peripheral LED module kit	8
		PWD 300 K3 peripheral LED board	1
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
10	3 683 54 555	PWD 300 K4 peripheral LED module Kit	8
		PWD 300 K4 peripheral LED board	1
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
11	3 683 53 555	PWD 300 K3 centre LED module kit	
		PWD 300 K3 centre LED board	1
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
11	3 683 55 555	PWD 300 K4 centre LED module kit	
		PWD 300 K4 centre LED board	1
	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 50 555	PWD 300 K3 K4 peripheral lens kit	8
12	5 683 30 087	PWD 300 machined outer lens module	1
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	1
	3 683 51 555	PWD 300 K3 K4 centre lens kit	
13	5 683 30 081	PWD 300 machined centre lens module	1
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	3
	3 683 07 998	PWD 300 ambient module kit	
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	3
15	5 683 30 209	PWD 300 ambient module S/A	1
	3 683 18 998	PWD 300 cover kit with beam seal	
16	5 683 30 117	PWD 300 RAL 9016 shell	1
17	5 683 30 041	PWD 300 RAL 7035 beam seal	1
	3 683 37 998	PWD 300 aluminium top cover kit	
16	5 683 30 119	PWD 300 aluminium shell	1
17	5 683 30 041	RAL 7035 beam seal	1
	5 683 30 118	Sticker	1
	3 683 58 555	PWD 300 underside kit	
18	6 009 70 308	M3×8 hexalobular socket extra low cheese head screw, s. steel	6
19	5 683 30 060	PWD 300 machined underside	1
	3 683 56 555	PWD 300 seal kit	
17	5 683 30 041	PWD 300 RAL 7035 beam seal	1
20	5 683 30 082	PWD 300 RAL 7035 T2 outer seal	1
21	5 683 30 201	PWD 300 handle blanking plate S/A	1
22	6 029 90 003	M3 serrated spring lock washer, stainless steel	9
	3 683 27 555	PWD 500/300 lighthouse snap ring kit	
23	5 683 50 044	Snap ring	5

DIAGRAM 89

PWD 300 LIGHTHEAD



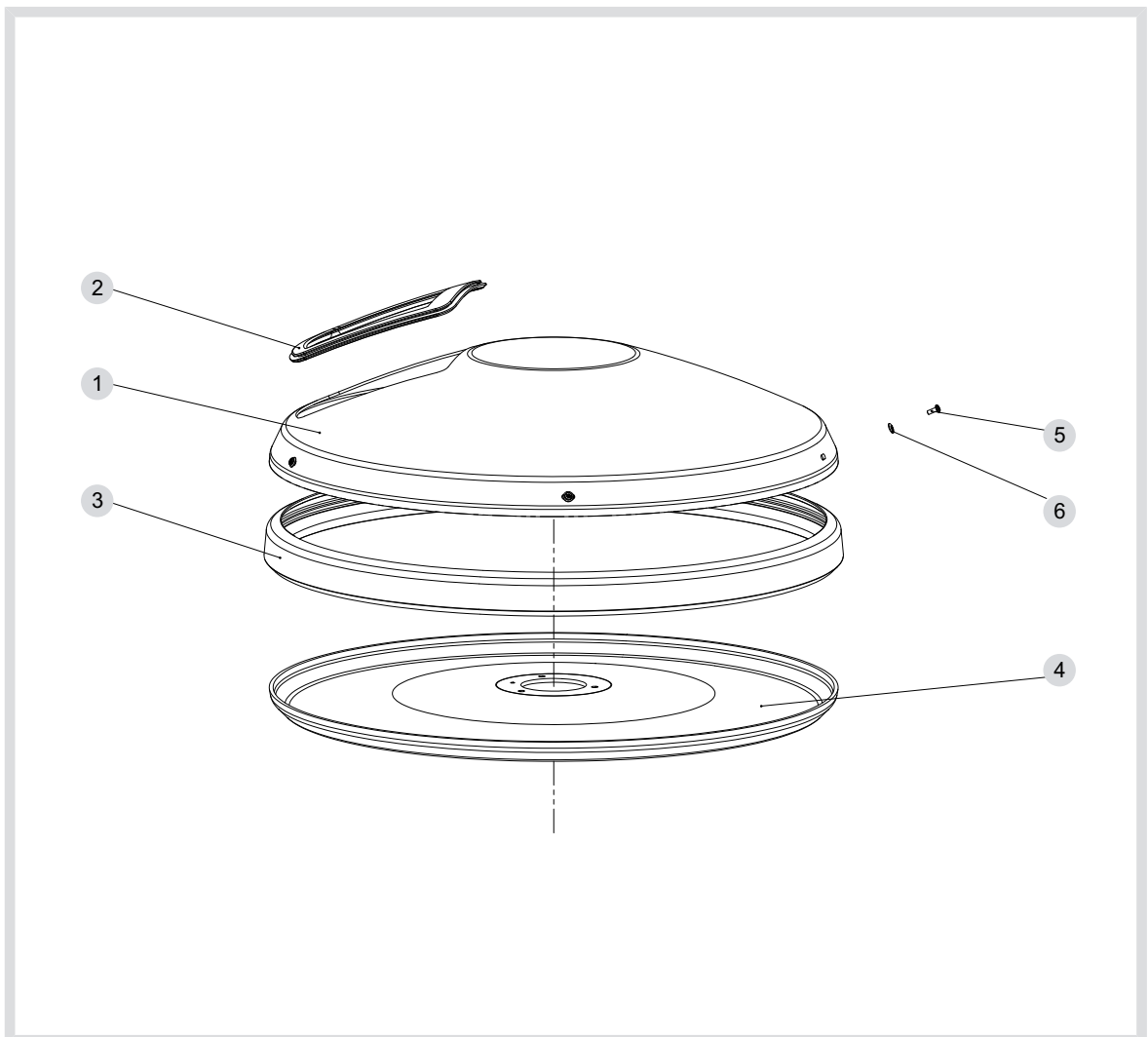
PARTS LIST 90

PWD 300 COVER

Ref.	Part number	Description	Qty
	3 683 18 998	PWD 300 cover kit with beam seal	
1	5 683 30 117	PWD 300 RAL 9016 shell	1
2	5 683 30 041	PWD 300 RAL 7035 beam seal	1
	3 683 37 998	PWD 300 aluminium top cover kit	
1	5 683 30 119	PWD 300 aluminium shell	1
2	5 683 30 041	RAL 7035 beam seal	1
	5 683 30 118	Sticker	1
	3 683 56 555	PWD 300 seal kit	
2	5 683 50 041	PWD 300 RAL 7035 beam seal	1
3	5 683 30 082	PWD 300 RAL 7035 T2 outer seal	1
	3 683 58 555	PWD 300 underside kit	
4	5 683 30 060	PWD 300 machined underside	1
5	6 009 70 308	M3×8 hexalobular socket extra low cheese head screw, steel	6
6	6 029 90 003	M3 serrated spring lock washer, stainless steel	6

DIAGRAM 90

PWD 300 COVER



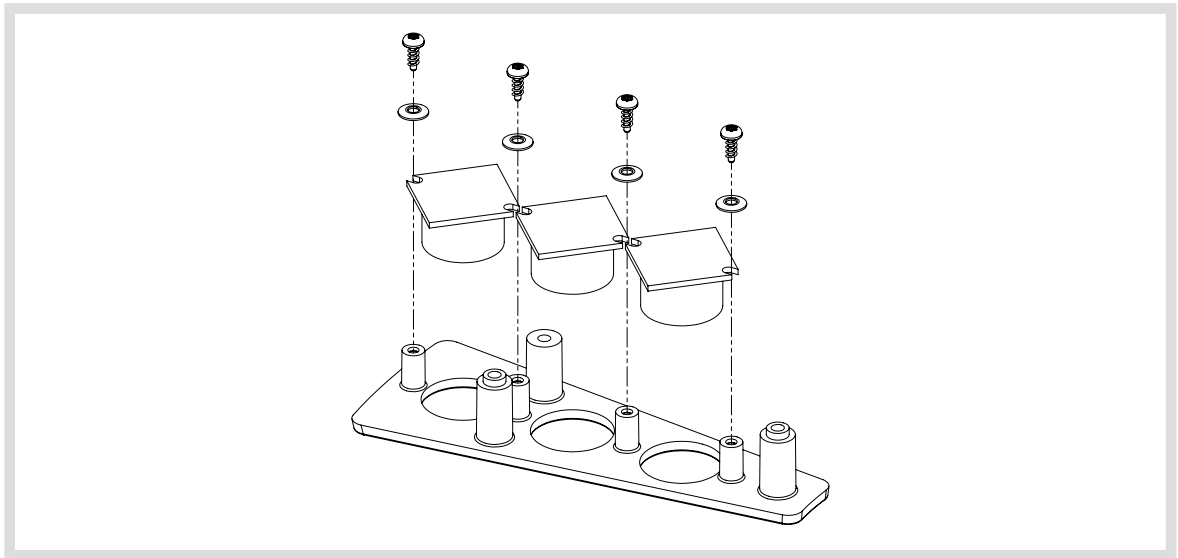
PARTS LIST 91

PWD 300 AMBIENT LEDS

Ref.	Part number	Description	Qty
	3 683 07 998	PWD 300 ambient module kit	
	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	3
	5 683 30 209	PWD 300 ambient module S/A	1

DIAGRAM 91

PWD 300 AMBIENT LEDS



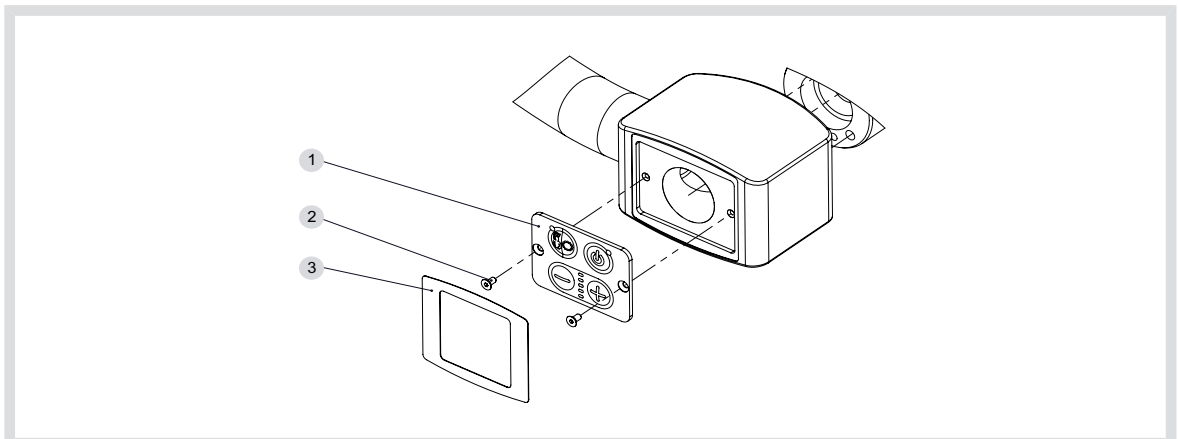
PARTS LIST 92

PWD 700/500/300 KEYPAD

Ref.	Part number	Description	Qty
	3 683 29 555	PWD 700 fork dimmer keypad kit	
1	5 683 01 153	Fork control keypad	1
2	6 004 10 308	M3×8 socket head countersunk screw, stainless steel	2
3	5 683 01 064	Keypad protective film	1

DIAGRAM 92

PWD 700/500/300 KEYPAD



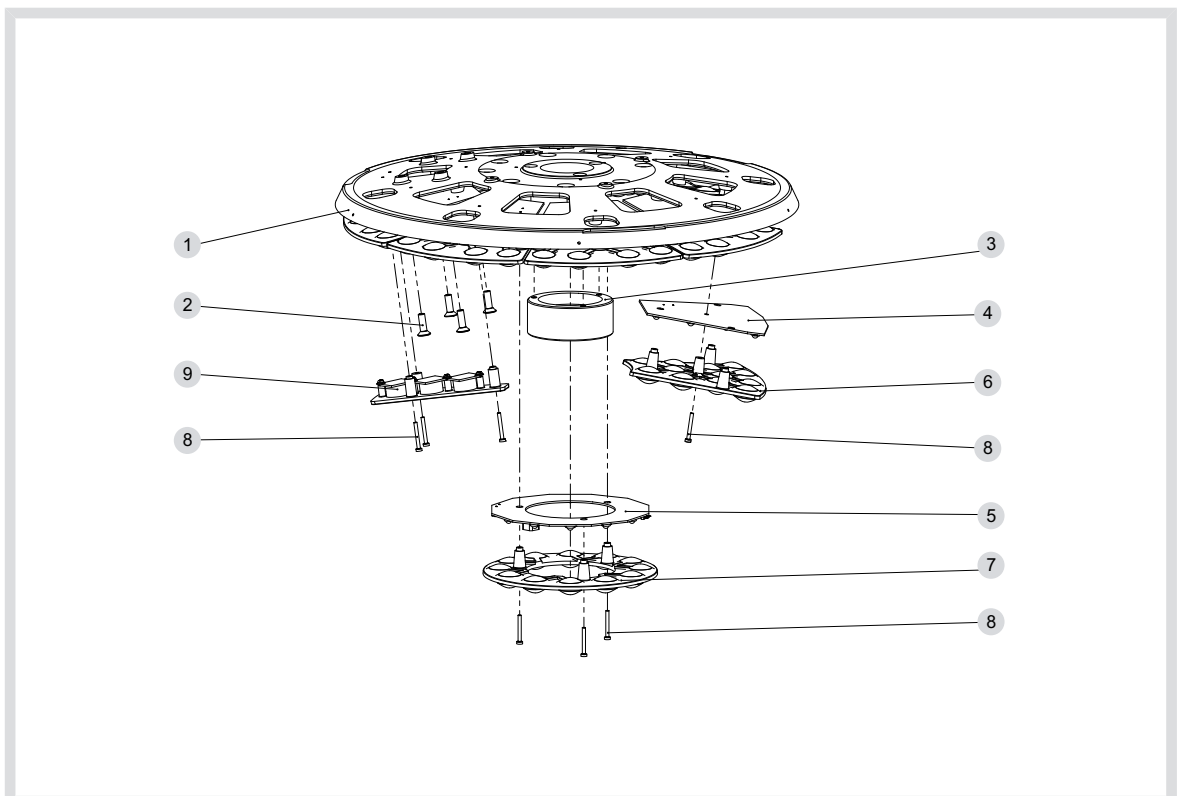
PARTS LIST 93

PWD 300 LENSES AND LED BOARD

Ref.	Part number	Description	Qty
1	5 683 30 012	PWD 300 machined frame	1
2	6 009 60 620	M6×20 hexalobular socket countersunk head screw, stainless steel	7
3	5 683 30 055	PWD 300 RAL 9005 spacer	1
4	3 683 52 555	PWD 300 K3 peripheral LED module kit	8
		PWD 300 K3 peripheral LED board	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
4	3 683 54 555	PWD 300 K4 peripheral LED module Kit	8
		PWD 300 K4 peripheral LED board	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
5	3 683 53 555	PWD 300 K3 centre LED module kit	1
		PWD 300 K3 centre LED board	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
5	3 683 55 555	PWD 300 K4 centre LED module kit	1
		PWD 300 K4 centre LED board	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
6	3 683 50 555	PWD 300 K3 K4 peripheral lens kit	8
		PWD 300 machined outer lens module	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
7	3 683 51 555	PWD 300 K3 K4 centre lens kit	1
		PWD 300 machined centre lens module	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
8	3 683 07 998	PWD 300 ambient module kit	3
		M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
9	5 683 30 209	PWD 300 ambient module S/A	1

DIAGRAM 93

PWD 300 LENSES AND LED BOARD



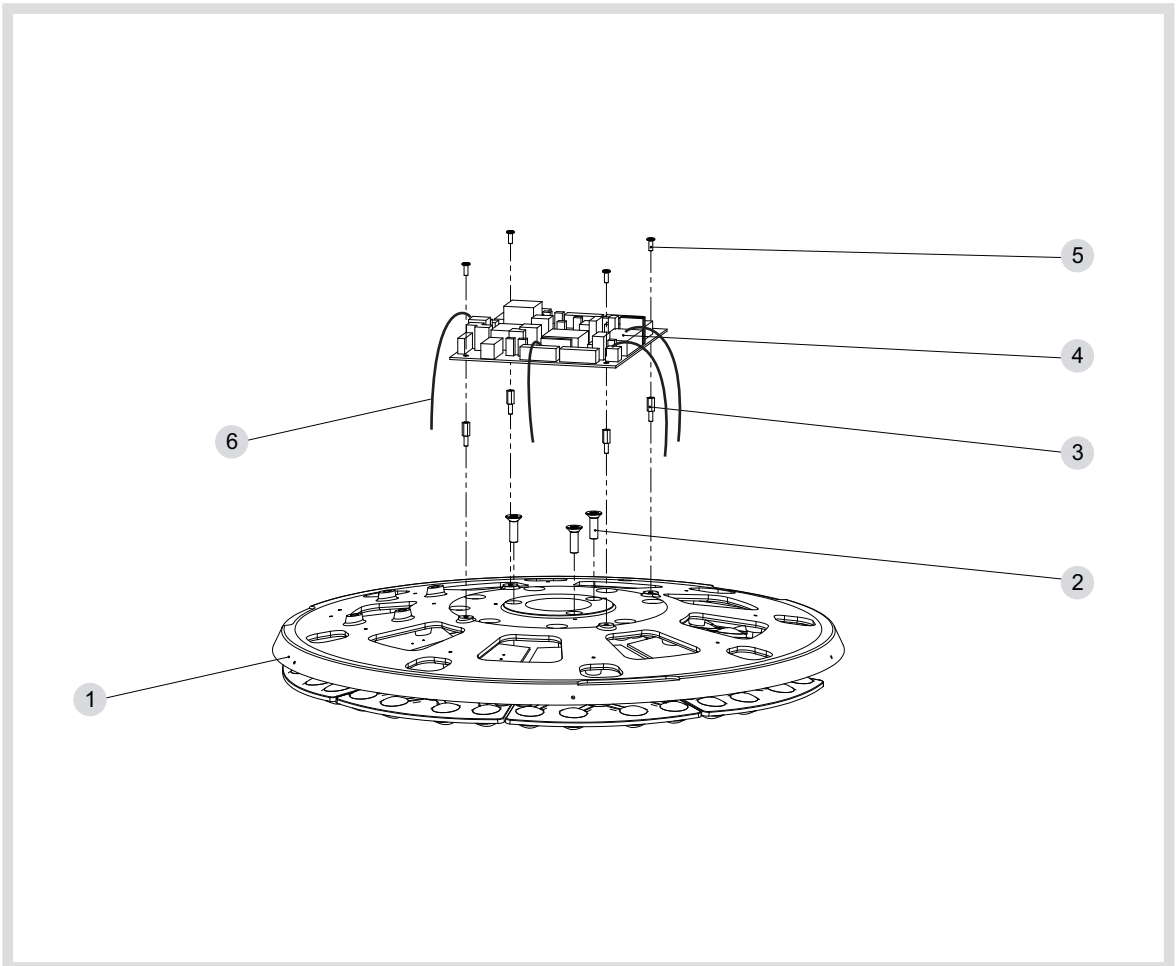
PARTS LIST 94

PWD 300 CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 30 012	Machined frame	1
2	6 009 60 620	M6×20 hexalobular socket countersunk head screw, stainless steel	7
	3 683 99 555	PowerLED 300/500/700 HD control board kit	
3	6 951 00 532	M3-10 hexagonal M/F spacer	4
4	5 683 01 500	PWD 300-500-700 control board	1
5	6 009 50 308	M3×8 cheese head screw, stainless steel	4
6	3 683 60 555	PWD 300 cable kit	
	5 683 50 502	PWD 300 kit: four LED control cables	1
	5 683 30 502	PWD 300 centre module cable	1

DIAGRAM 94

PWD 300 CONTROL BOARD



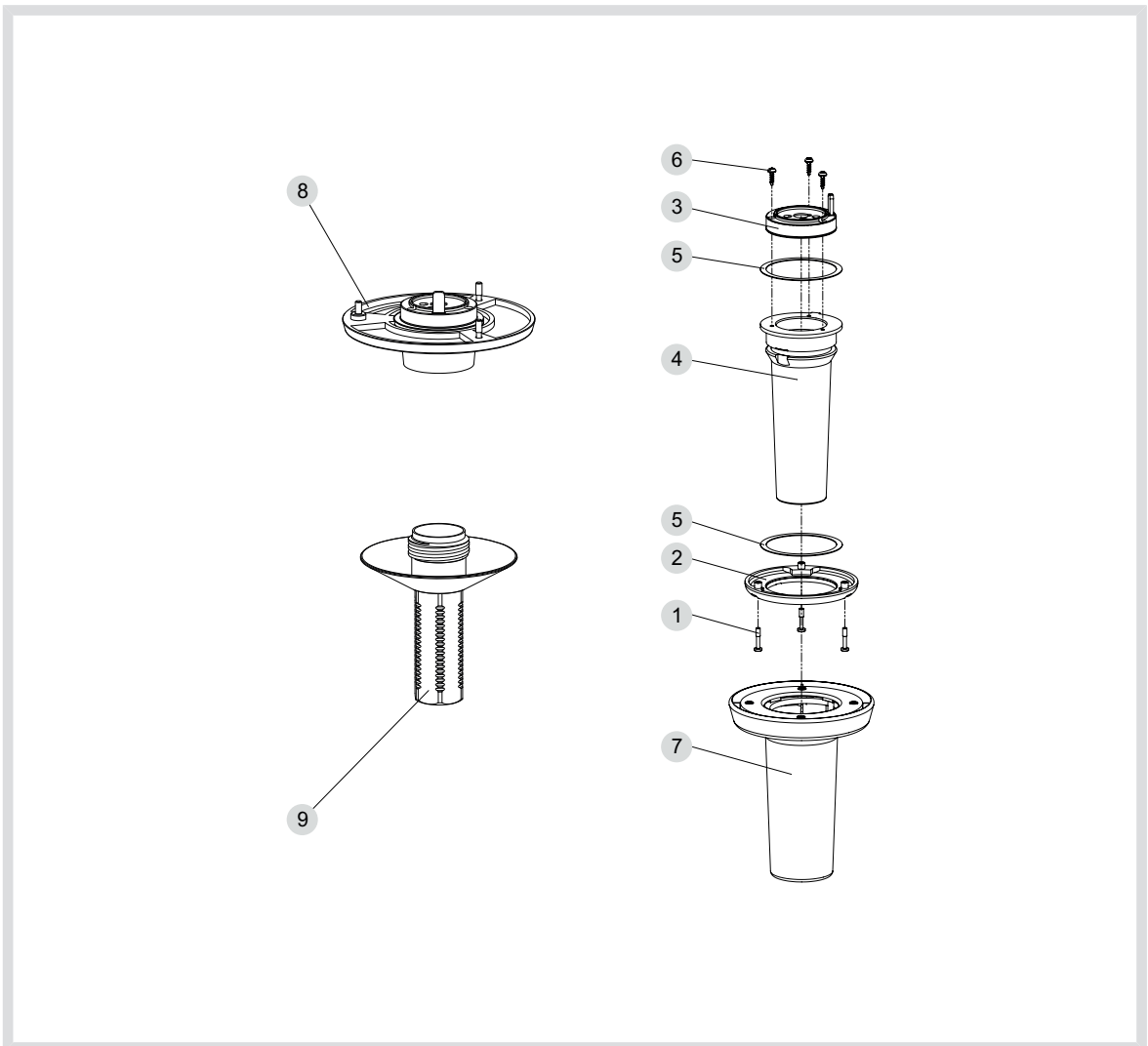
PARTS LIST 95

PWD 300 STERILE HANDLE MOUNT

Ref.	Part number	Description	Qty
	5 683 30 900	PWD 300 sterile handle mount	
1	5 675 01 206	Captive screw	3
2	5 675 01 205	Sleeve interface	1
3	5 678 01 046	Sleeve washer	1
4	5 688 01 074	Orange sleeve (Serial No. from 50,000)	1
5	5 675 01 256	Friction washer	2
6	6 009 90 081	EJOT screw, PT WN5452 K 30×8, zinc-plated steel	3
7	5 672 03 972	Lightweight sterilisable handle	1
8	5 683 30 902	Devon® handle adapter, S/N<41000	1
8	5 675 01 253	Devon® handle adapter, S/N>41000	1
9	-	Devon® handle	1

DIAGRAM 95

PWD 300 STERILE HANDLE MOUNT



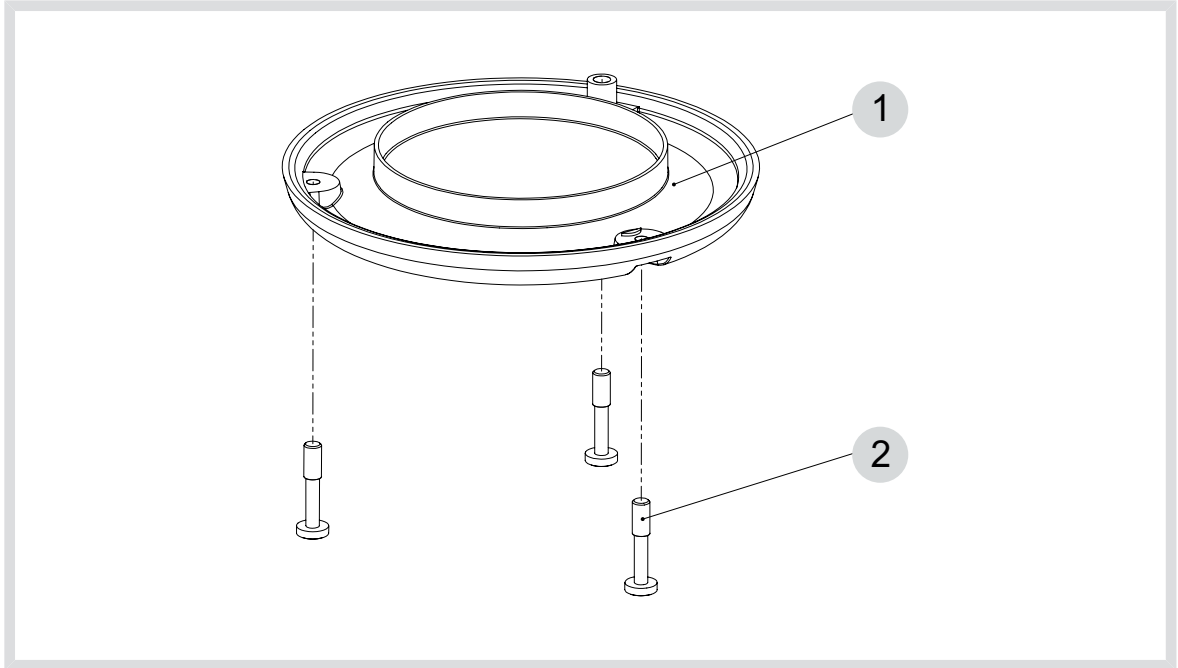
PARTS LIST 96

PWD 300 HANDLE BLANKING PLATE

Ref.	Part number	Description	Qty
	3 683 63 555	Handle blanking plate kit	
1	5 683 30 057	PWD 300 RAL 7035 blanking plate	1
2	5 675 01 206	Captive screw	3

DIAGRAM 96

PWD 300 HANDLE BLANKING PLATE



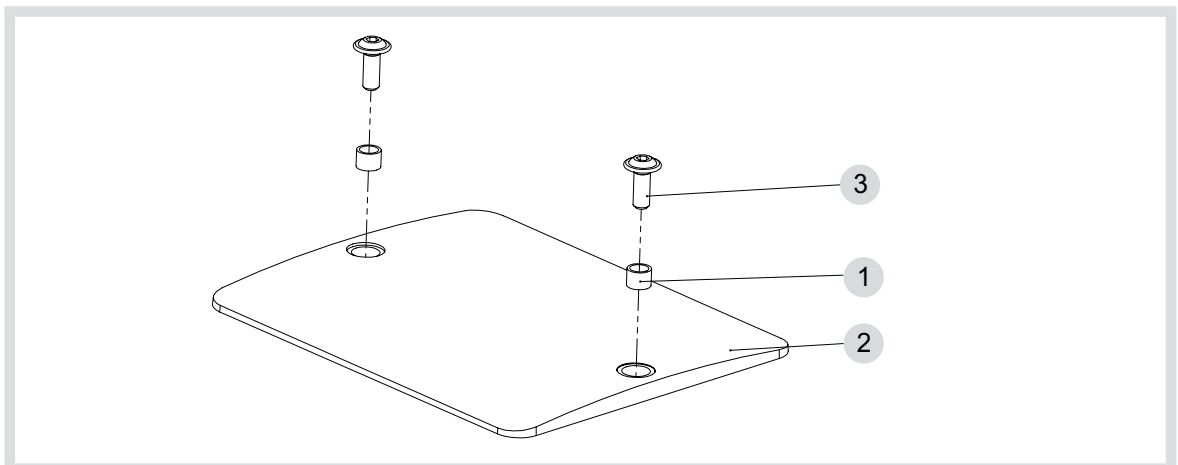
PARTS LIST 97

PWD 300 RETAINING PLATE

Ref.	Part number	Description	Qty
	3 683 32 555	PWD 700 snap ring retaining plate kit	
1	5 675 01 153	Underside sleeve spacer	2
2	5 683 70 009	PWD 700 retaining plate	1
3	6 009 90 106	M3×8 pan head socket screw, stainless steel	2

DIAGRAM 97

PWD 300 RETAINING PLATE



16.16 PWD 300 Boost lighthouse

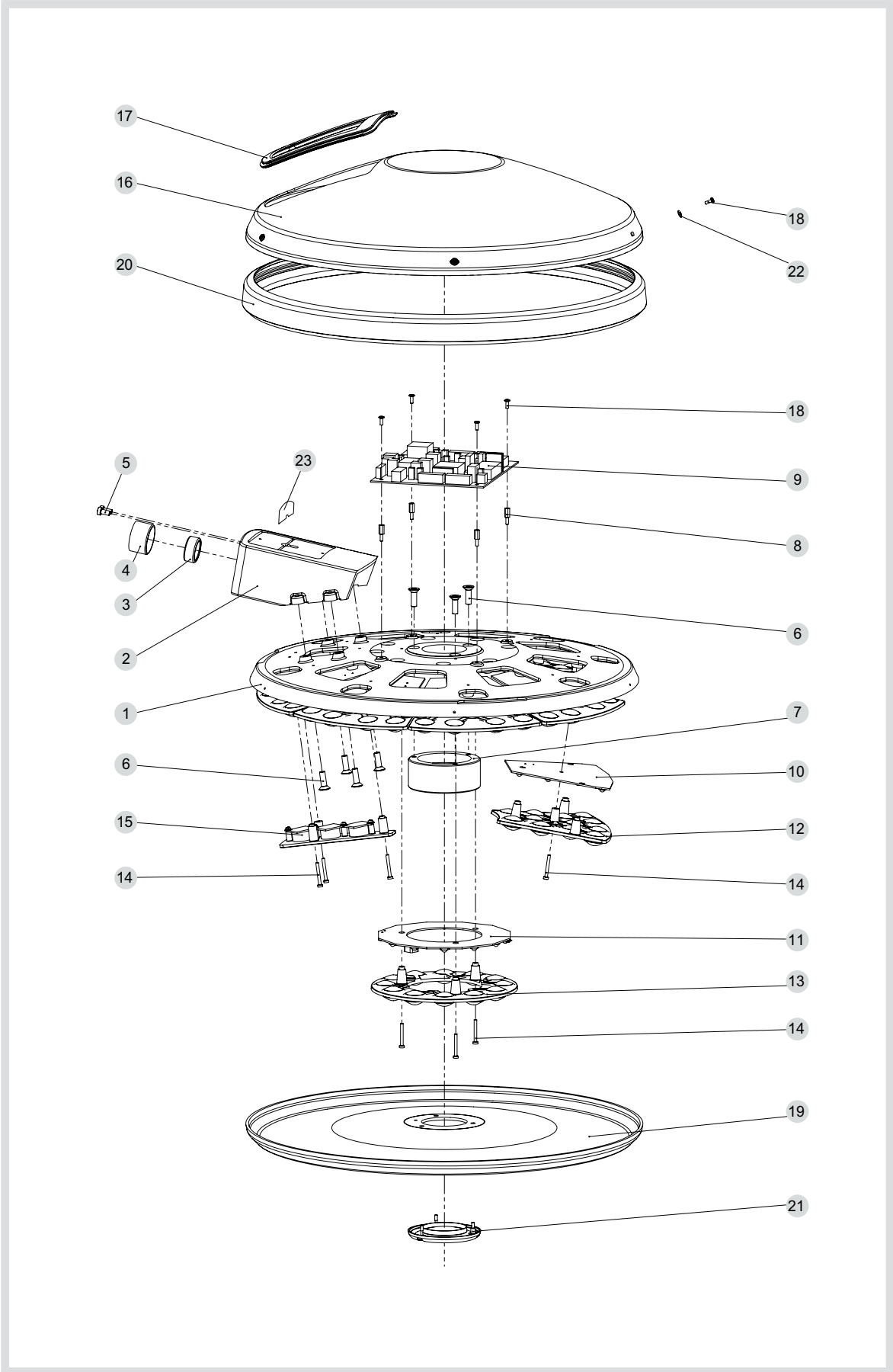
PARTS LIST 98

PWD 300 BOOST LIGHTHEAD

Ref.	Part number	Description	Qty
1	5 683 30 012	PWD 300 machined frame	1
2	5 683 30 022	PWD 300 beam (RAL 9016)	1
3	6 236 22 006	Needle bush HK 2212	1
4	6 975 40 009	IGUS straight bushing GSM-3034-20	1
5	6 009 70 510	M5×10 cheese head screw, stainless steel	2
6	6 009 60 620	M6×20 countersunk head screw, stainless steel	7
7	5 683 30 055	PWD 300 RAL 9005 spacer	1
	3 683 99 555	PWD/HLD 300/500/700 HD control board kit	
8	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
9	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
18	6 009 50 308	M3×8 hexalobular socket extra low cheese head screw, s. steel	4
10	3 683 95 555	PWD/HLD 300 Boost peripheral LED module kit	8
	5 683 30 530	PWD 300 Boost NICHIA peripheral LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	1
	3 683 06 556	PWD/HLD 300 Boost peripheral LED module kit, SN > 30,000	1
	5 683 30 550	PWD 300 Boost NICHIA peripheral LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
11	3 683 96 555	PWD/HLD 300 Boost centre LED module kit	1
	5 683 30 531	PWD 300 Boost NICHIA centre LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
	3 683 07 556	PWD/HLD 300 Boost peripheral LED module kit, SN > 30,000	1
	5 683 30 551	PWD 300 Boost NICHIA centre LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
	3 683 97 555	PWD/HLD 300 Boost peripheral lens kit	8
12	5 683 30 089	Peripheral lens module	1
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	1
	3 683 98 555	PWD/HLD 300 BOOST centre LED lens kit	1
13	5 683 30 085	Centre lens module	1
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	3
	3 683 07 998	PWD 300 ambient module kit	
14	6 009 70 325	M3×25 hexalobular socket cheese head screw, stainless steel	3
15	5 683 30 209	PWD 300 ambient module S/A	1
	3 683 18 998	PWD 300 cover kit with beam seal	
16	5 683 30 117	PWD 300 RAL 9016 shell	1
17	5 683 30 041	PWD 300 RAL 7035 beam seal	1
	3 683 37 998	PWD 300 aluminium top cover kit	
16	5 683 30 119	PWD 300 aluminium shell	1
17	5 683 30 041	RAL 7035 beam seal	1
	5 683 30 118	Sticker	1
	3 683 58 555	PWD 300 underside kit	
18	6 009 70 308	M3×8 hexalobular socket extra low cheese head screw, s. steel	6
19	5 683 30 060	PWD 300 machined underside	1

DIAGRAM 98

PWD 300 BOOST LIGHTHEAD

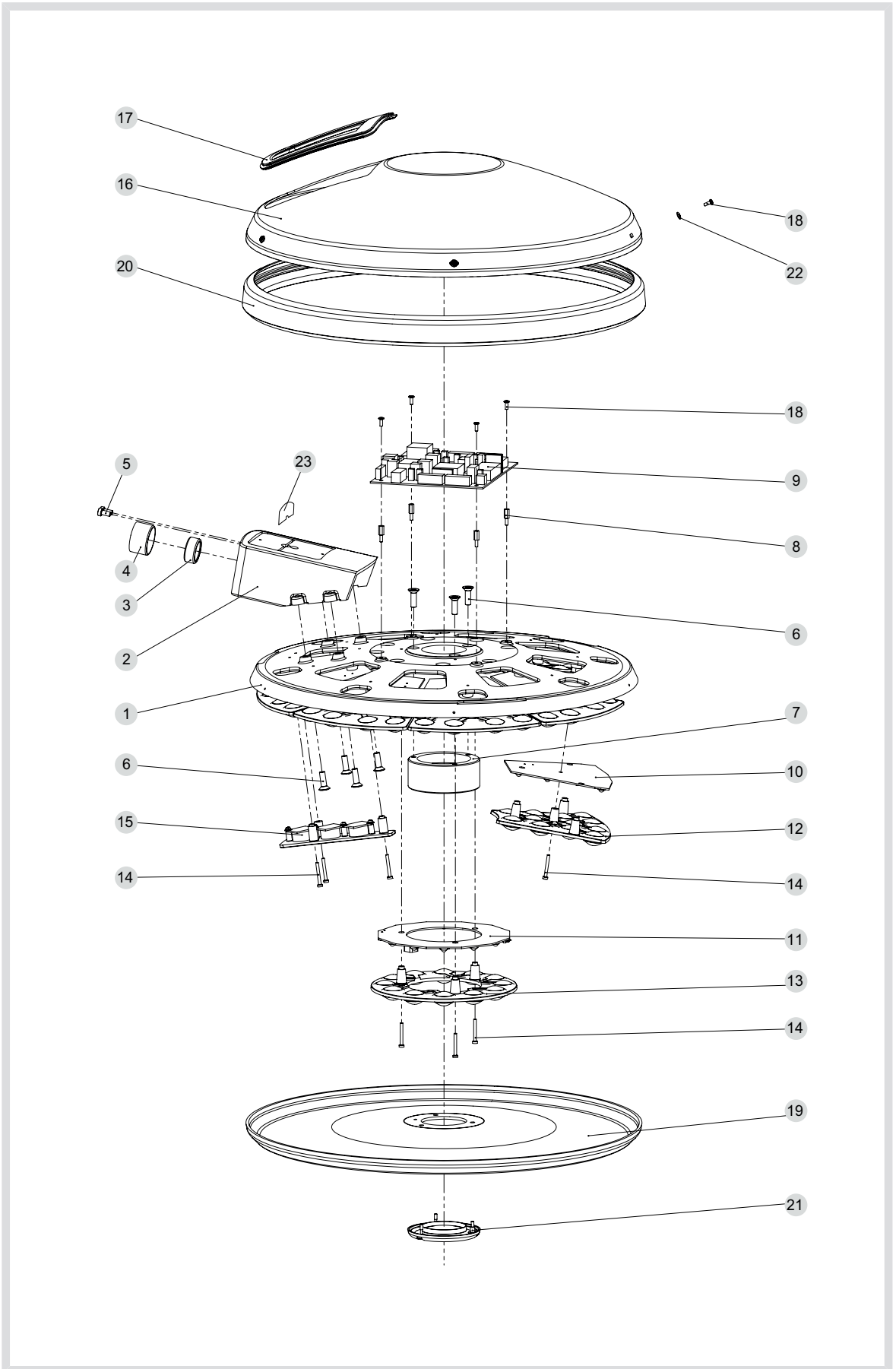


**PARTS LIST 98
(CONTINUED)****PWD 300 BOOST LIGHTHEAD**

Ref.	Part number	Description	Qty
	3 683 56 555	PWD 300 seal kit	
17	5 683 30 041	PWD 300 RAL 7035 beam seal	1
20	5 683 30 082	PWD 300 RAL 7035 T2 outer seal	1
21	5 683 30 201	PWD 300 handle blanking plate S/A	1
22	6 029 90 003	M3 serrated spring lock washer, stainless steel	9
	3 683 27 555	PWD 500/300 lighthouse snap ring kit	
23	5 683 50 044	Snap ring	5

DIAGRAM 98 (continued)

PWD 300 BOOST LIGHTHEAD



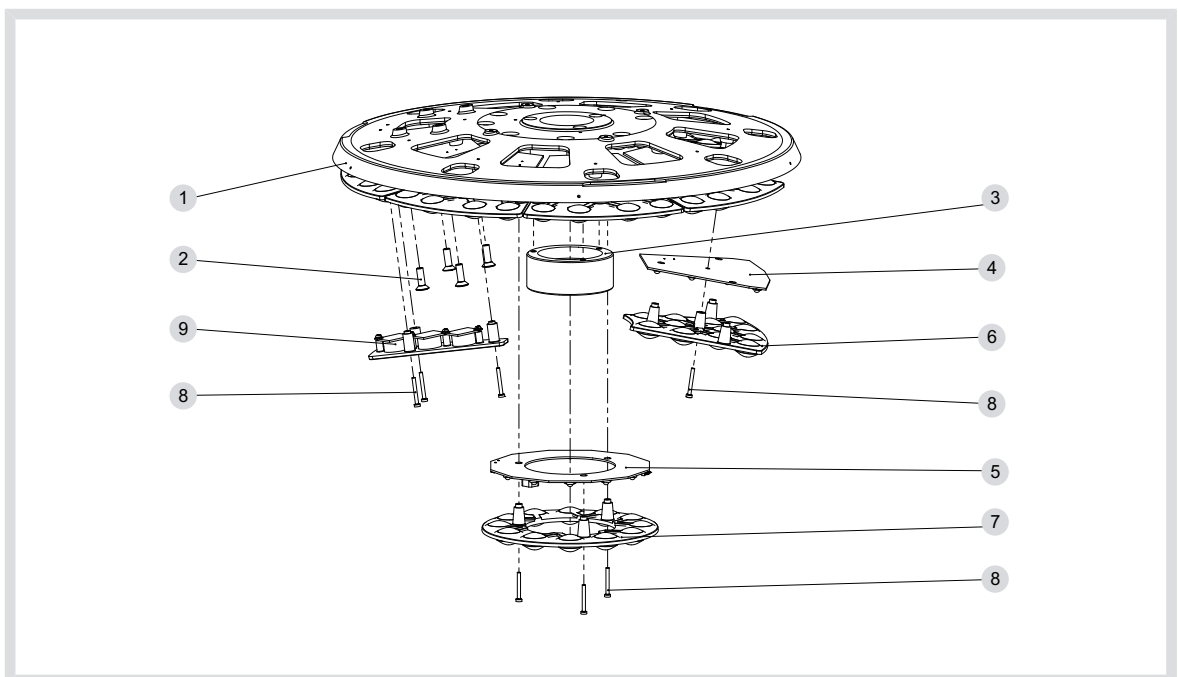
PARTS LIST 99

PWD 300 BOOST LENSES AND LED BOARD

Ref.	Part number	Description	Qty
1	5 683 30 012	PWD 300 machined frame	1
2	6 009 60 620	M6×20 hexalobular socket countersunk head screw, stainless steel	7
3	5 683 30 055	PWD 300 RAL 9005 spacer	1
	3 683 95 555	PWD/HLD 300 Boost peripheral LED module kit	8
4	5 683 30 530	PWD 300 Boost NICHIA peripheral LED board	1
8	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	1
	3 683 06 556	PWD/HLD 300 Boost peripheral LED module kit, SN > 30,000	1
	5 683 30 530	PWD 300 NICHIA peripheral LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
	3 683 96 555	PWD/HLD 300 Boost centre LED module kit	1
5	5 683 30 531	PWD 300 Boost NICHIA centre LED board	1
8	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
	3 683 07 556	PWD/HLD 300 Boost centre LED module kit, SN > 30,000	1
	5 683 30 551	PWD 300 NICHIA centre LED board	1
	6 009 70 325	M3×8 hexalobular socket cheese head screw, stainless steel	3
	3 683 97 555	PWD/HLD 300 Boost peripheral lens kit	8
6	5 683 30 089	Peripheral lens module	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	1
	3 683 98 555	PWD/HLD 300 Boost centre lens kit	1
7	5 683 30 085	Centre lens module	1
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
	3 683 07 998	PWD 300 ambient module kit	
8	6 009 70 325	M3×25 hexalobular socket cheese head screw, A2 stainless steel	3
9	5 683 30 209	PWD 300 ambient module S/A	1

DIAGRAM 99

PWD 300 BOOST LENSES AND LED BOARD



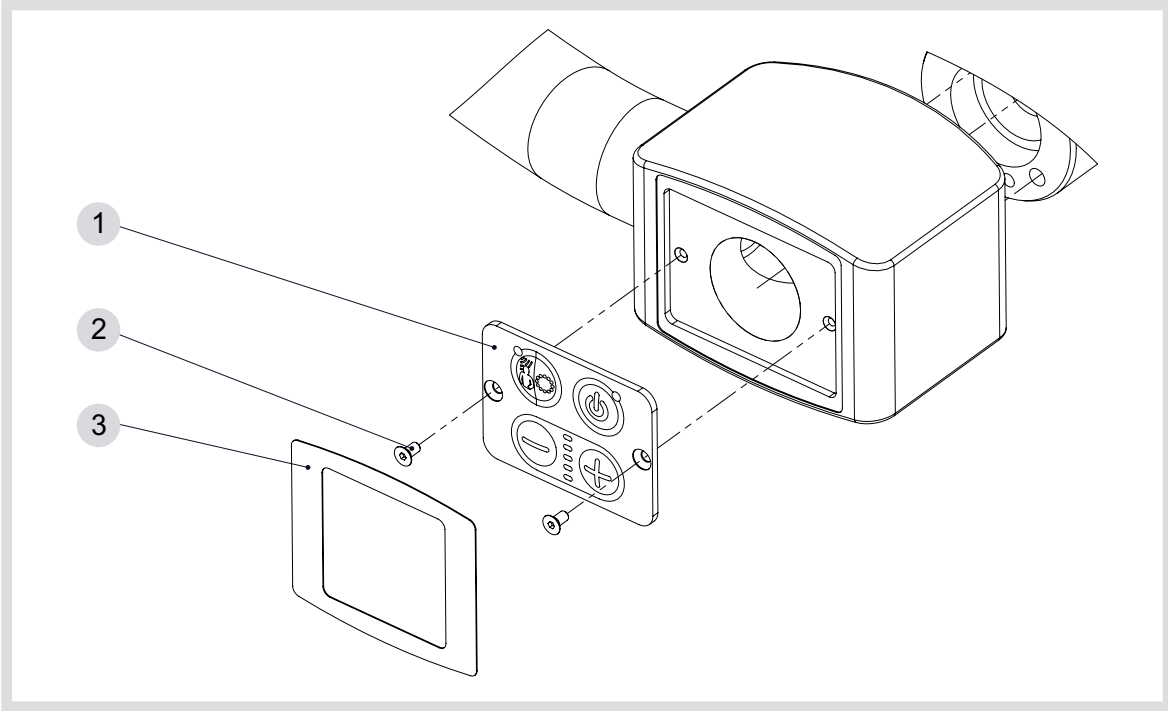
PARTS LIST 100

PWD 700/500/300 BOOST KEYPAD

Ref.	Part number	Description	Qty
	3 683 01 556	PWD/HLD Boost fork Lexan panel kit	
1	5 683 10 915	Fork Lexan control panel	1
2	6 009 90 115	M3×6 countersunk head screw, A2 stainless steel, ISO 14581	2
3	5 683 01 164	Lexan panel protective film	1

DIAGRAM 100

PWD 700/500/300 BOOST KEYPAD



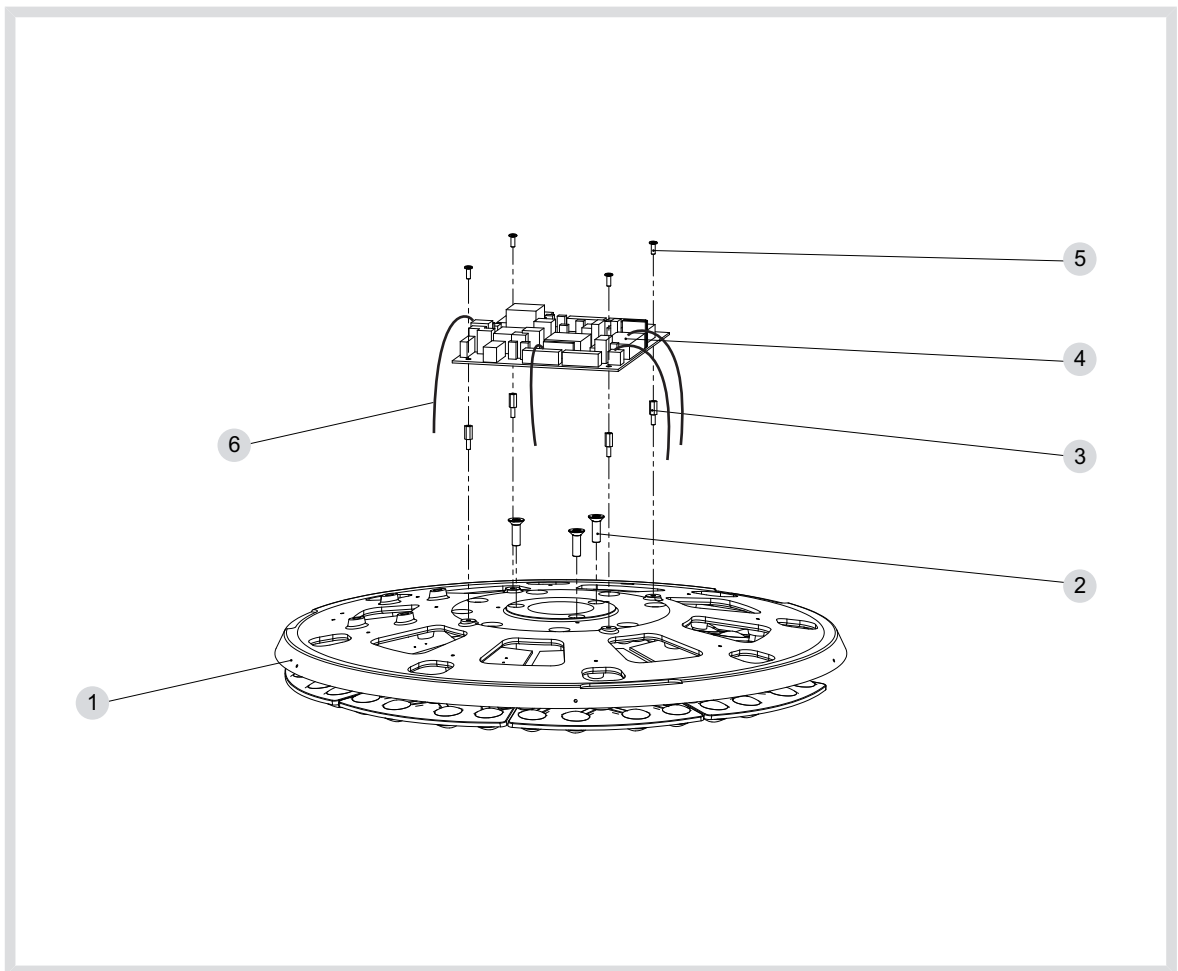
PARTS LIST 101

PWD 300 BOOST CONTROL BOARD

Ref.	Part number	Description	Qty
1	5 683 30 012	PWD 300 machined frame	1
2	6 009 60 620	M6×20 hexalobular socket countersunk head screw, stainless steel	7
	3 683 99 555	PWD/HLD 700/500/300 Boost control board kit	
3	6 951 00 342	M3 hexagonal M/F spacer, stainless steel (L: 10 mm, H: 5.5 mm)	4
4	5 683 70 046	PWD 300-500-700 ROHS AXONE control board	1
5	6 009 50 308	M3×8 cheese head screw, stainless steel	4
6	3 683 60 555	PWD 300 cable kit	
	5 683 50 502	PWD 300 kit: four LED control cables	1
	5 683 30 502	PWD 300 centre module cable	1

DIAGRAM 101

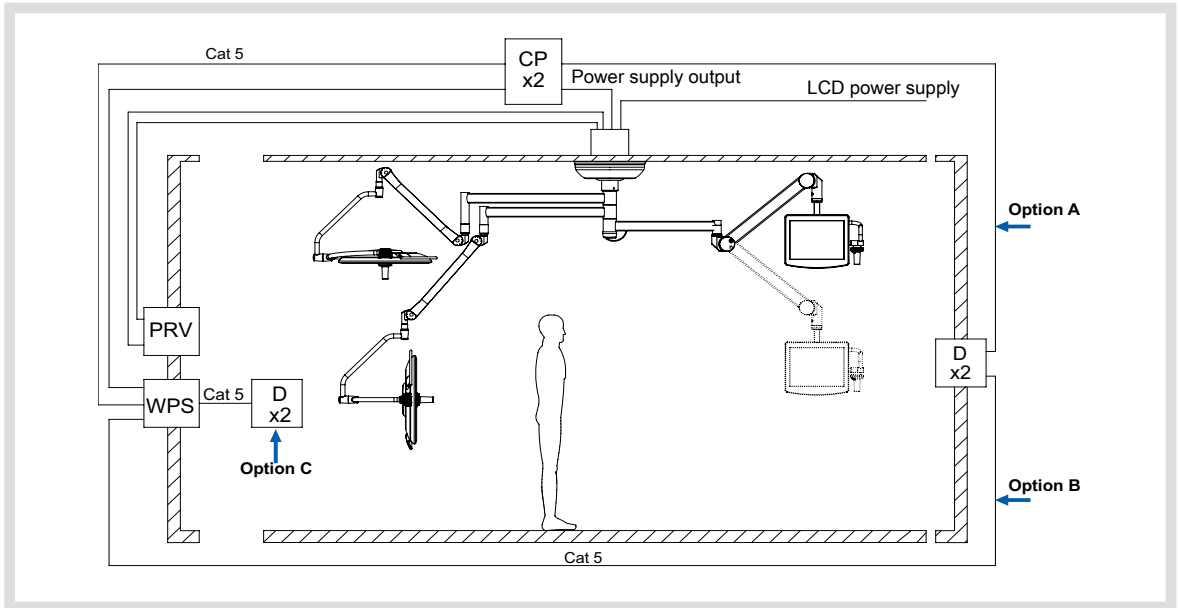
PWD 300 BOOST CONTROL BOARD



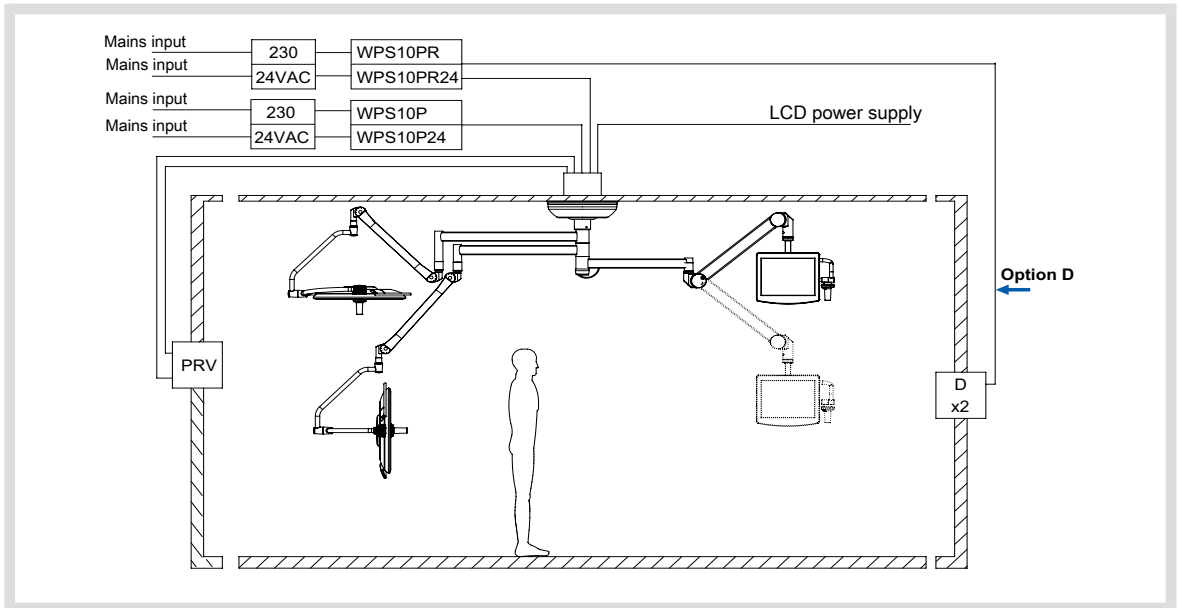
17 Electrical connections (WPS power supply)

17.1 Installation diagrams

17.1.1 WPS11 - WPS12 - WPS21 - WPS22

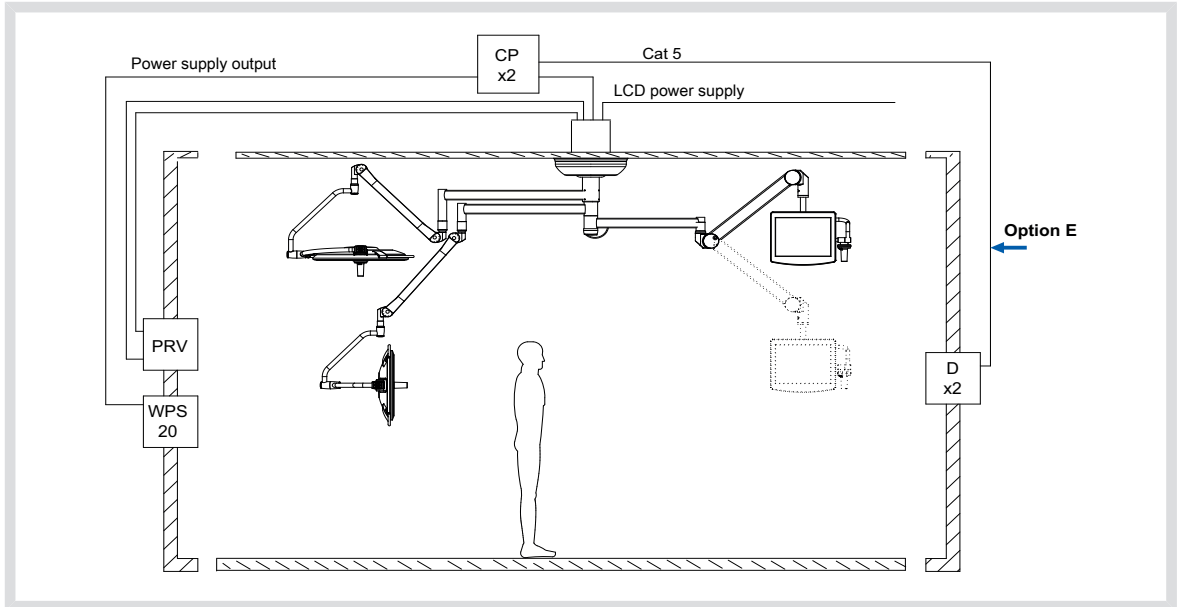


17.1.2 WPS10PR24 - WPS10PR - WPS10P - WPS10P24

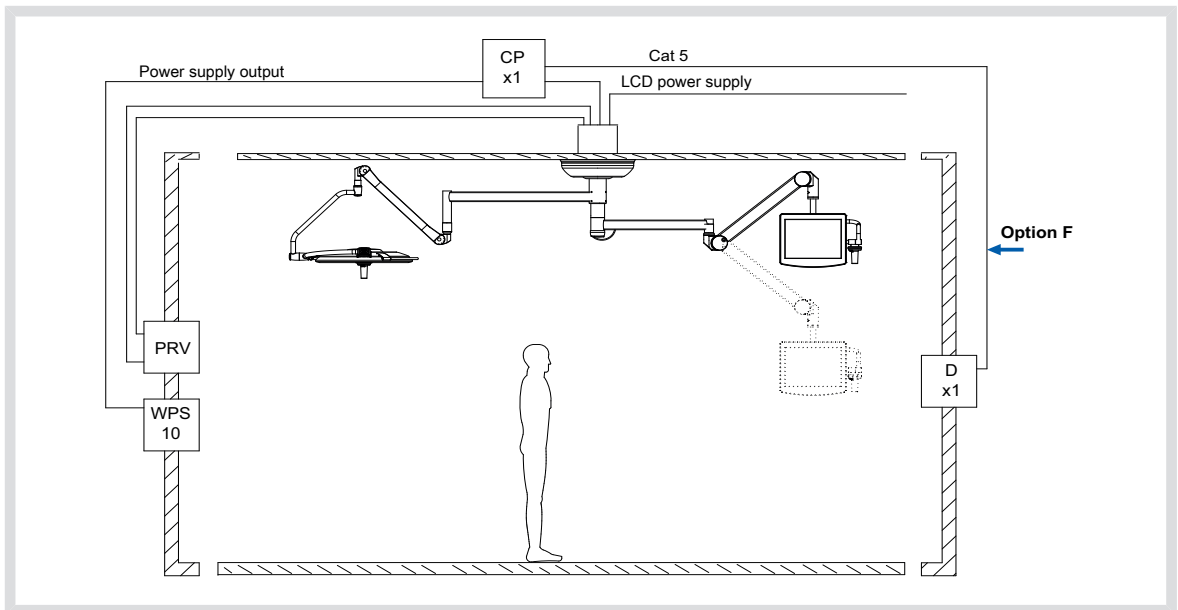


CP	Powerline communication module
WPS	Power supply
D	Dimmer
Cat 5	Category 5 cable
VCU	Video control unit

17.1.3 WPS20

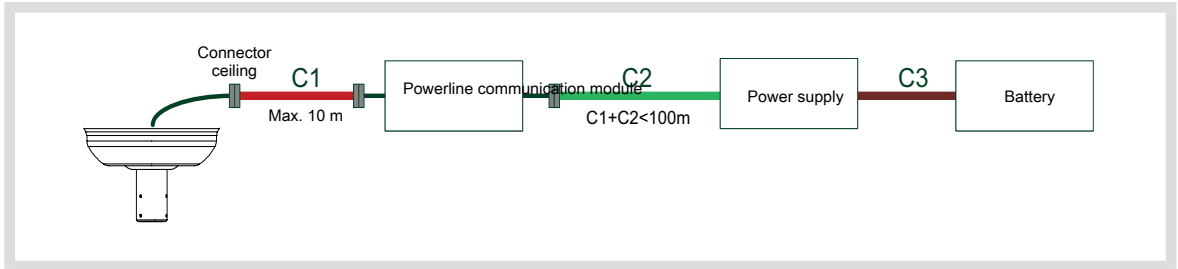


17.1.4 WPS10



CP	Powerline communication module
WPS	Power supply
D	Dimmer
Cat 5	Category 5 cable
VCU	Video control unit

17.2 Recommended cable cross-section



	Length C1+C2	Minimum recommended cross-section
PWD 300 or 500	< 20 m	4 mm ²
	< 30 m	6 mm ²
	< 50 m	10 mm ²
	< 70 m	16 mm ²
PWD 700	< 10 m	4 mm ²
	< 20 m	6 mm ²
	< 30 m	10 mm ²
	< 50 m	16 mm ²
	< 70 m	25 mm ²

	Length C3	Minimum recommended cross-section
PWD 300 or 500	< 5 m	4 mm ²
	< 8 m	6 mm ²
	< 10 m	10 mm ²
PWD 700	< 3 m	4 mm ²
	< 4 m	6 mm ²
	< 7 m	10 mm ²
PWD 300 or 500 DUO	< 2 m	4 mm ²
	< 4 m	6 mm ²
	< 8 m	10 mm ²
PWD 700 DUO	< 1 m	4 mm ²
	< 2 m	6 mm ²
	< 4 m	10 mm ²
	< 7 m	16 mm ²
PWD 300 or 500 + PWD 700	< 2 m	4 mm ²
	< 3 m	6 mm ²
	< 5 m	10 mm ²
	< 9 m	16 mm ²

RECOMMENDATION

If a longer distance is required, contact the Maquet technical department.

17.3 Battery pack capacity, charge time and heat output

17.3.1 Battery pack capacity

	With 1 battery pack	With 2 battery packs	With 3 battery packs
PWD 700	2 h 30 min	5 h 50 min	
PWD 500	4 h	8 h 30 min	
PWD 300	6 h 15 min	15 h	
PWD 700/700	1 h	2 h 30 min	4 h 15 min
PWD 700/500	1 h 15 min	3 h	5 h
PWD 700/300	1 h 45 min	3 h 45 min	6 h
PWD 500/500	1 h 45 min	4 h	6 h 15 min
PWD 500/300	2 h	4 h 45 min	7 h 30 min
PWD 300/300	2 h 40 min	6 h 20 min	9 h 45 min

17.3.2 Charge time

	With 1 battery pack	With 2 battery packs	With 3 battery packs
Charge time	14 h	28 h	42 h

17.3.3 Heat emissions

	230 V - 50 Hz	110 V - 50 Hz
Single power supply (WPS 10; WPS 11; WPS 12; WPS 10PXX)	30 W	50 W
Double power supply	60 W	100 W
Powerline communication module	10 W	10 W

17.4 Connecting the WPS power supply unit



WARNING!

The electrical connections must be performed by a qualified technician, with the product and cables disconnected from the power supply.

RECOMMENDATION

- At the time of installation, it is necessary to provide a cutoff device with a mains voltage indicator light which shuts off the mains circuits electrically, all the poles at the same time.
- Ensure that the polarity is correct, as it is essential for the correct operation of the video and some onboard electrical equipment. Ensure that the markings (+ and –) provided on the power supply module match those of the light connector.
- Connect each power supply input to a circuit breaker (I = 10 A).

17.4.1 Main connection

- All WPS units have two mains inputs for safety reasons (one electrical line per lighthouse).

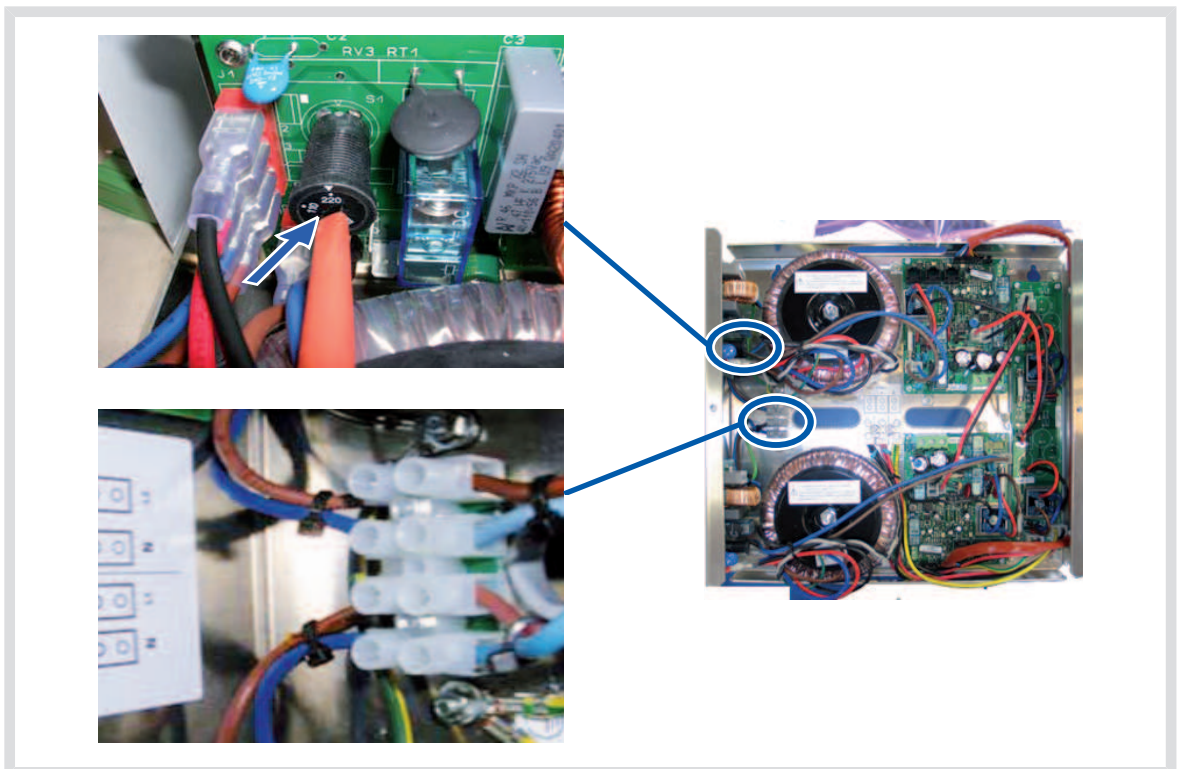


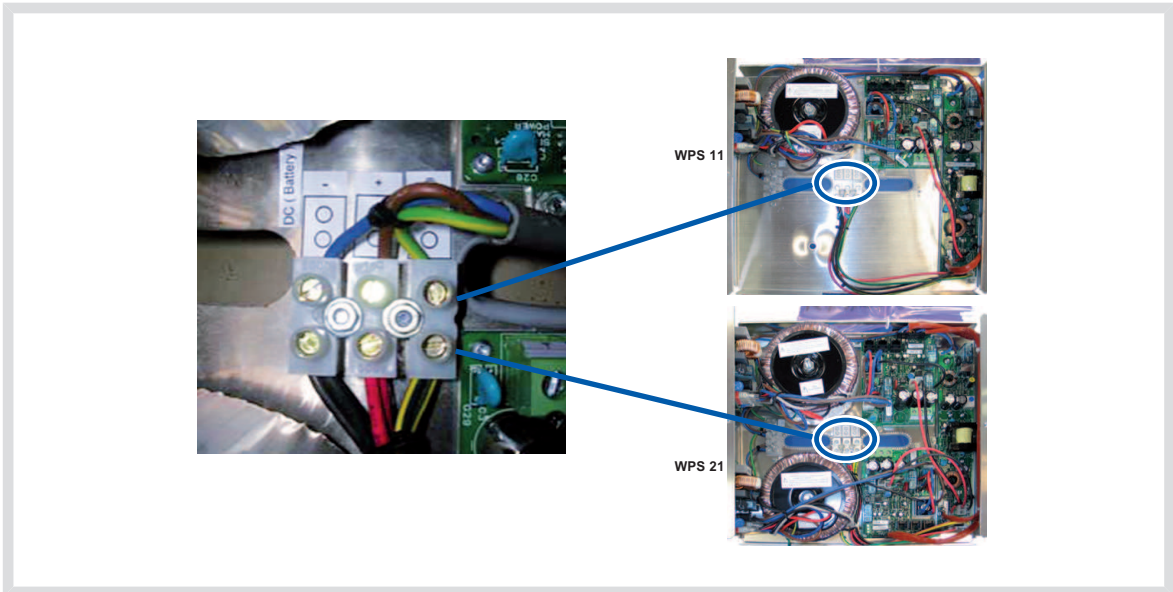
Fig. 1: Example: WPS 21

- Set the voltage range to 100-120 or 220-230 V (flat-bladed screwdriver).
- Connect the two lines to the connector.

NOTICE

- Each cable must be made of copper, have a minimum cross-section of 1.5 mm² and comply with the applicable regulations.
- Use cable ties to hold the main power supply wires to each other.

17.4.2 Connecting the battery



- Connect to the three-pin connector, ensuring that the polarity is correct.

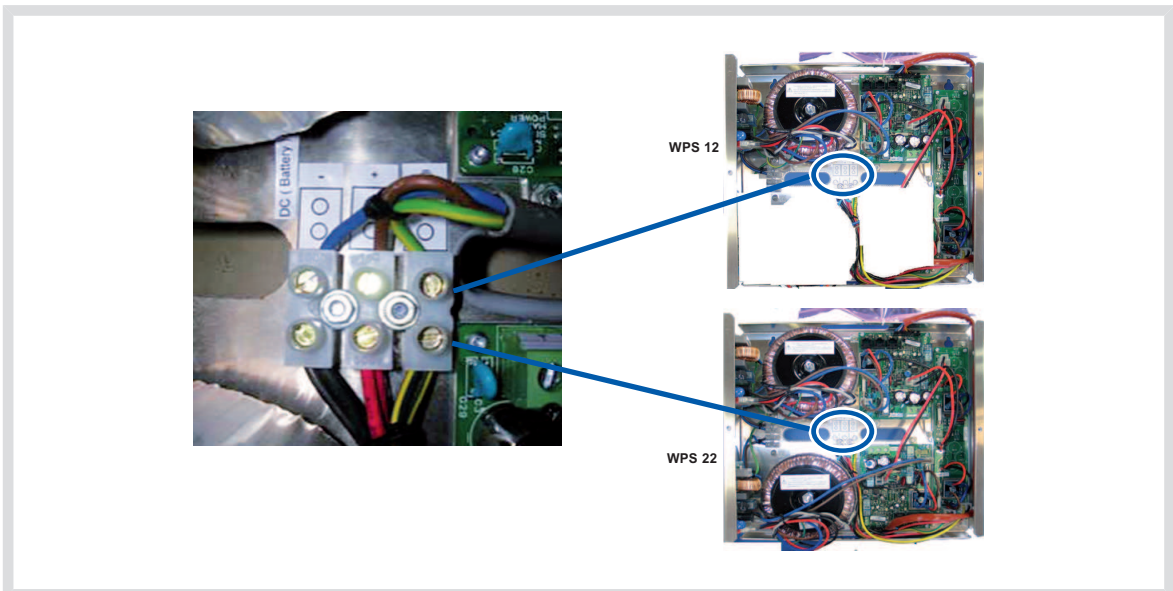
⚠ WARNING!

The maximum distance between the power supply and the battery pack(s) is 10 m.

NOTICE

- Each cable must be made of copper, have a minimum cross-section of 1.5 mm² and comply with the applicable regulations.
- Use cable ties to hold the main power supply wires to each other.

17.4.3 Connecting to the external backup system



- Connect to the three-pin connector, ensuring that the polarity is correct.

NOTICE

- Each cable must be made of copper, have a minimum cross-section of 1.5 mm² and comply with the applicable regulations.
- Use cable ties to hold the main power supply wires to each other.

17.4.4 Connecting the communication cable (RJ-45)

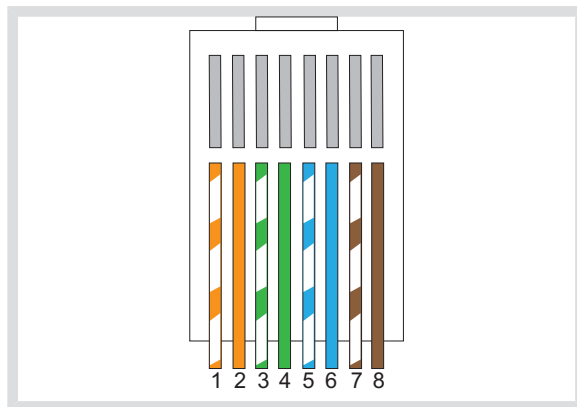
The communication cable is used to connect:

- the control keypad
- the RS485 serial link
- the Powerline communication module

Equipment needed		Code	Part number
Four-pair cable, cross-section 24 AWG, category 5 SFTP, 6 mm in diameter, consisting of eight rigid twisted wires		RJ15M (15 m)	5 673 13 901
		RJ100M (100 m)	5 673 13 902
Set of 10 connectors		RJ PLUGS	5 673 13 903
RJ-45 crimping tool		RJ CRIMPING TOOLS	5 720 71 999

RECOMMENDATION

- To ensure compliance with the EIA568 B standard, the order specified below must be observed.
- Hold the RJ-45 connector with the clip downwards and insert the cables facing the installer.



- 1 White / Orange
- 2 Orange
- 3 White / Green
- 4 Green
- 5 White / Blue
- 6 Blue
- 7 White / Brown
- 8 Brown

17.4.5 Connecting the control keypad



WARNING!

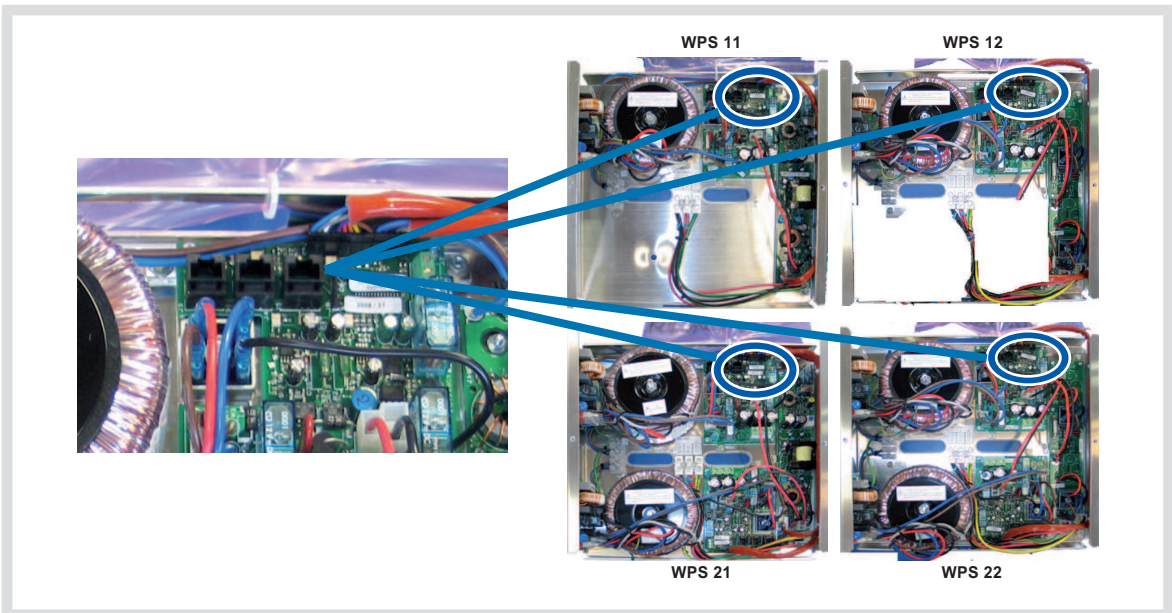
Shut off the power supply before connecting the RJ-45 cable.

Option A (see installation diagram)



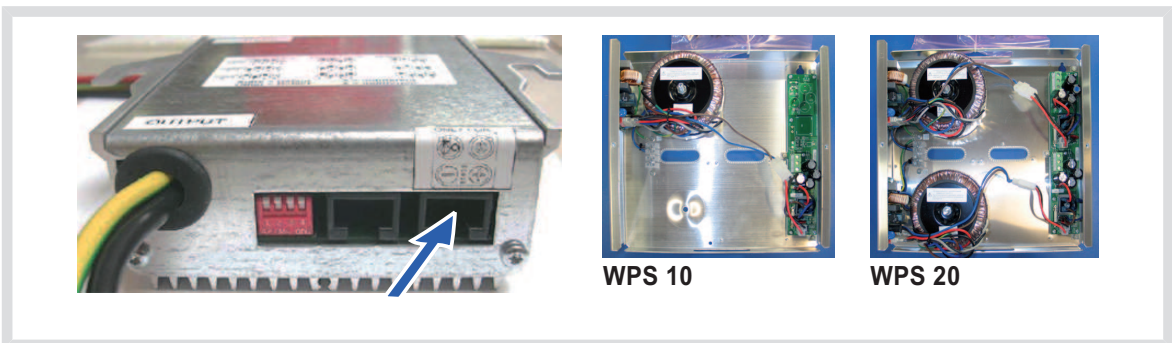
- Connect the control keypad to the Powerline communication module (RJ-45 cable).

Option B (see installation diagram)



- Connect the control keypad to the WPS.

Option E / F (see installation diagram)



- Connect the control keypad to the Powerline communication module (RJ-45 cable).

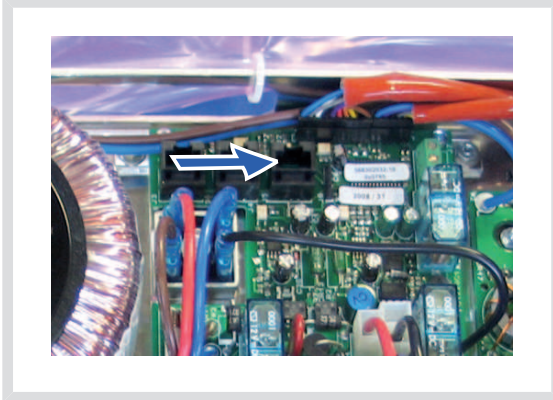
17.4.6 RS485 serial connection (WPS 11, 12, 21, 22)



WARNING!

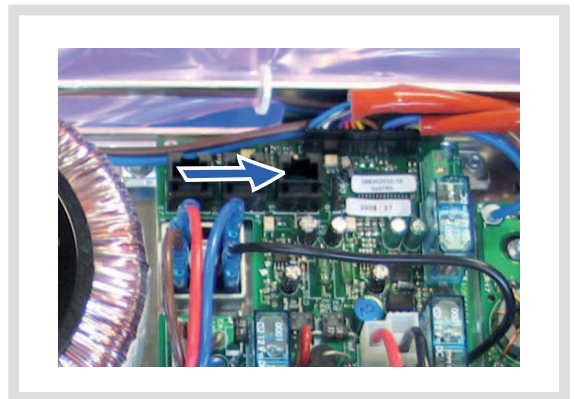
Shut off the power supply before connecting the RJ-45 cable.

Option A (see installation diagram)



- Always connect the RJ-45 cable to the WPS.

Option B (see installation diagram), two options:



- Connect the RJ-45 cable to the Powerline communication module.
- or
- Connect to the WPS.

17.4.7 RS485 serial connection (WPS 10, 20)

Option E or F (see installation diagram)



- Always connect the RJ-45 cable to the Powerline communication module.

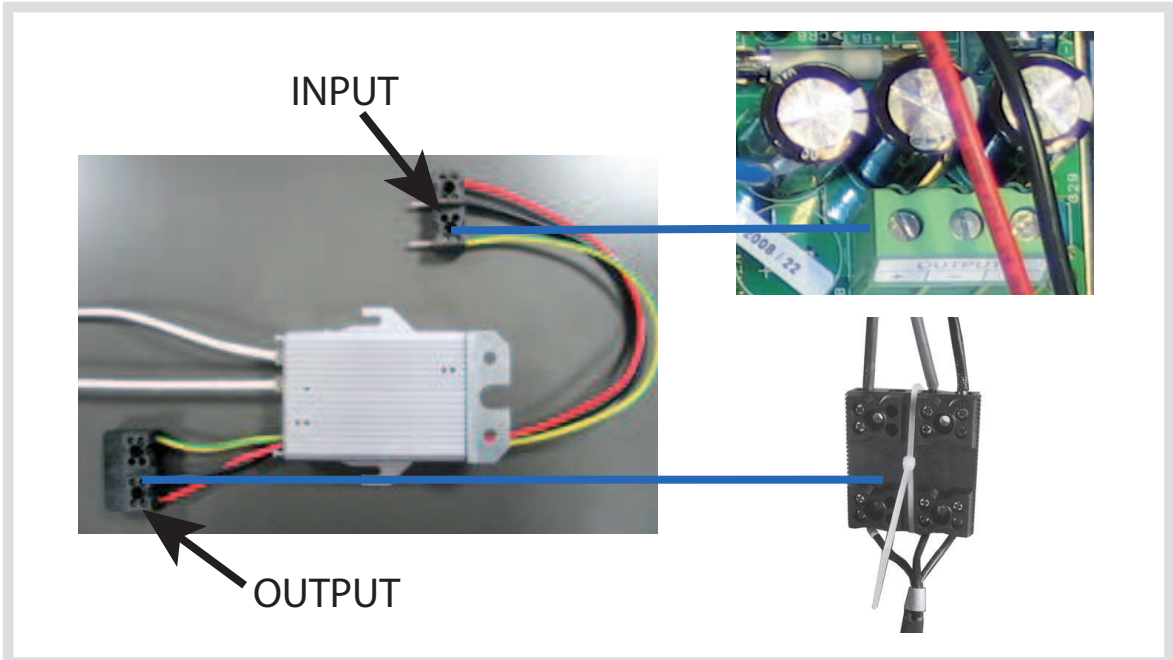
17.5 Connecting the Powerline communication module



WARNING!

Shut off the power supply before connecting the RJ-45 cable.

For all WPS units (10, 11, 12, 20, 21, 22)



- Attach the connectors using a plastic collar.



WARNING!

Follow the cable cross-section recommendations (see the “Recommended cables” section).

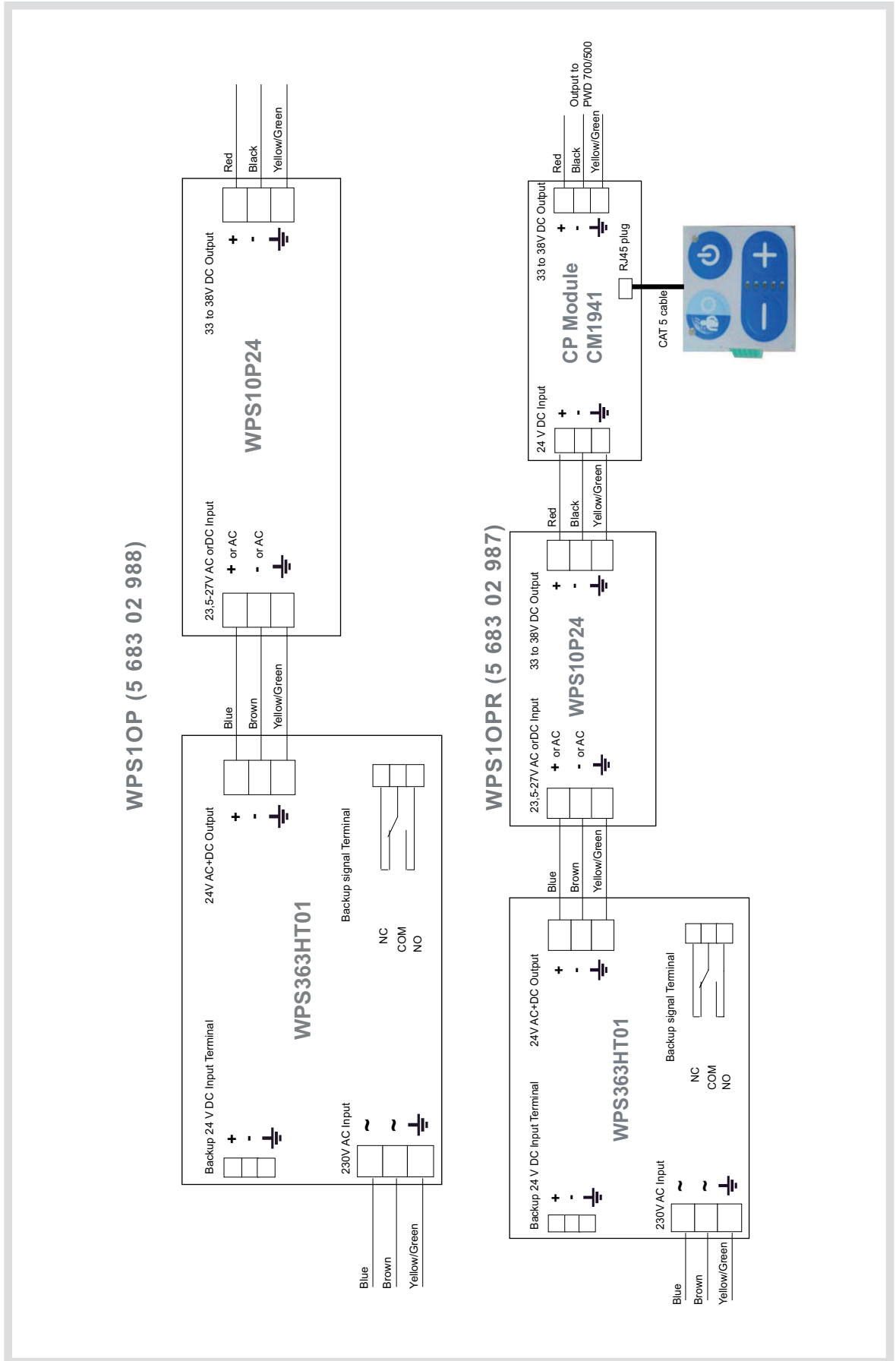
For WPS 11, 12, 21, 22
Option A and B (see installation diagram)



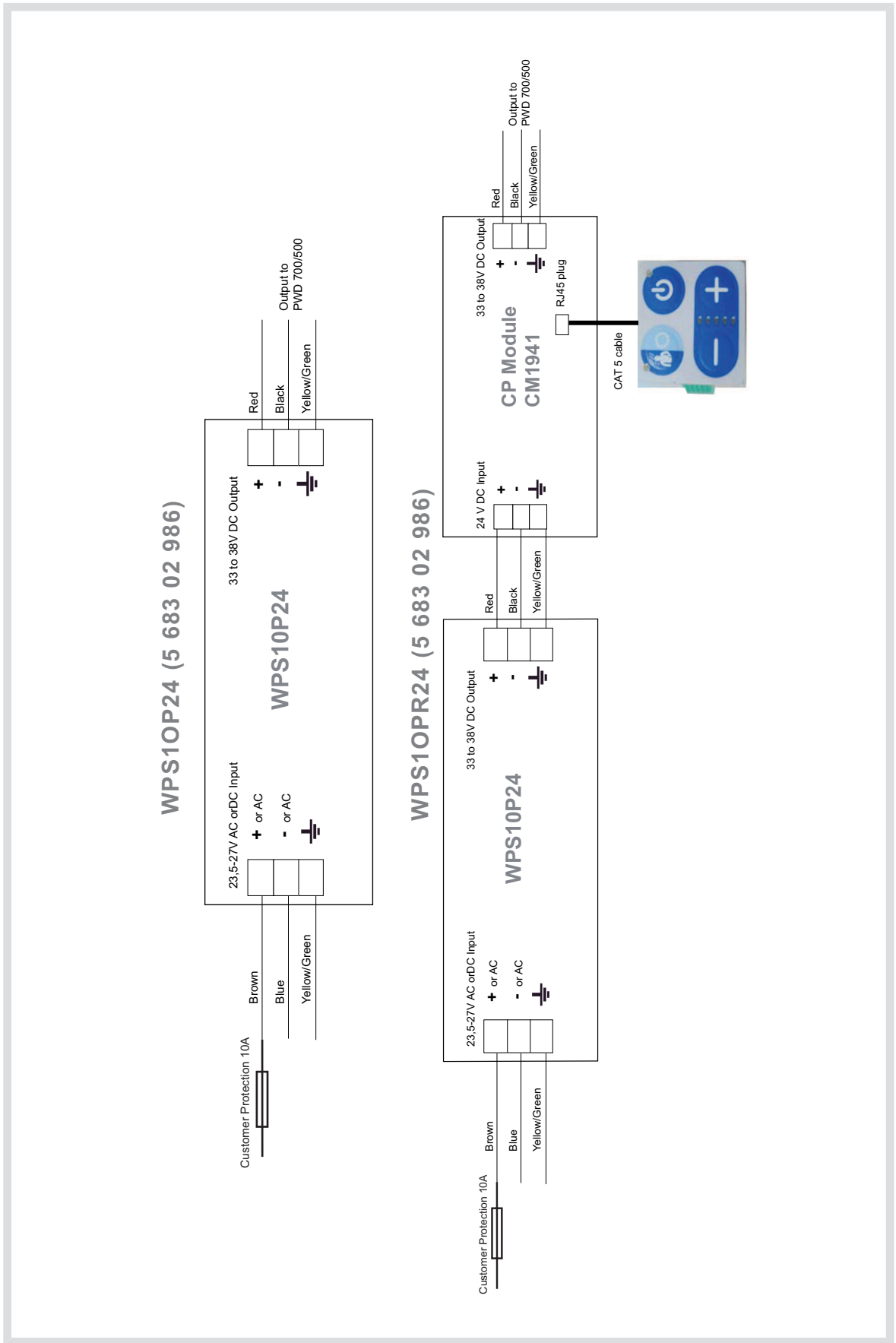
- Always connect the RJ-45 cable to the Powerline communication module.

17.6

Connecting the WPS10P, WPS10PR, WPS10P24 and WPS10PR24



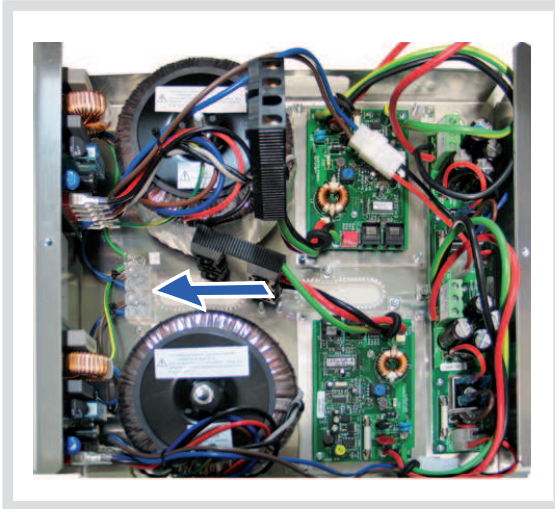
Note: the remote control shown is not representative for the Boost version.



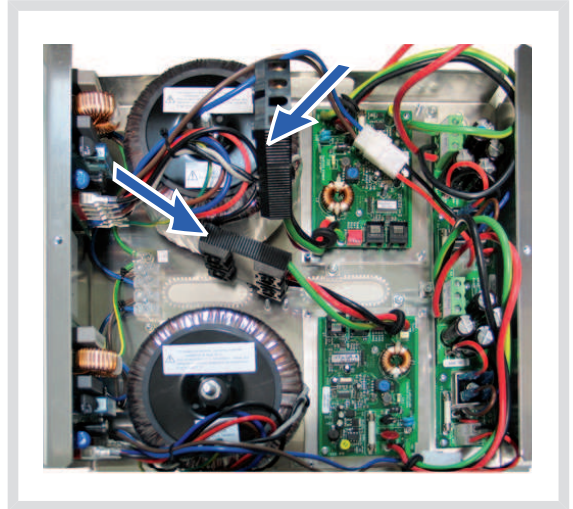
Note: the remote control shown is not representative for the Boost version.

17.7 Connecting the US WPS

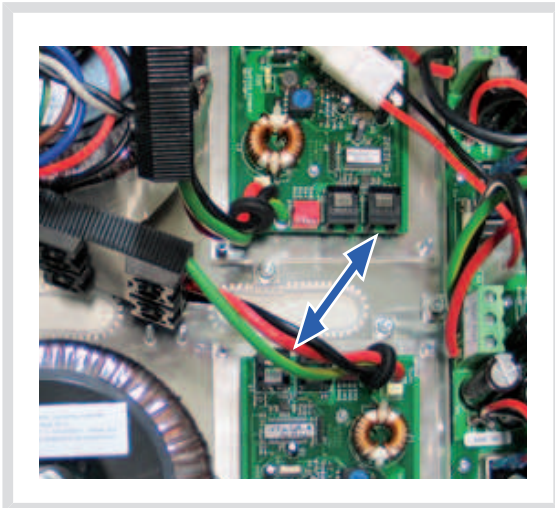
- The Powerline communication module is integrated in the WPS.
- The settings are the same as for the WPS 20.



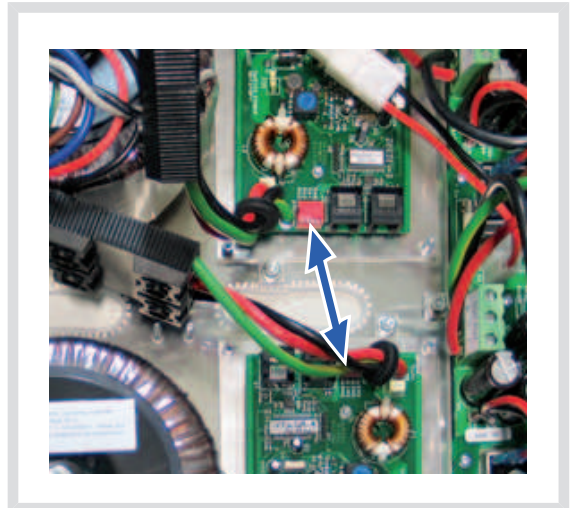
- Connect the mains input to the connector.



- Connect each lighthouse.



- Connect the control keypad(s).



- Configure the micro-switches.

17.8 Configuring the micro-switch



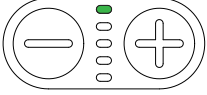




- Configure the red micro-switch according to the WPS type (with or without backup).
- The lighthouse number corresponds to a dedicated communication channel.



NOTICE

- Each lighthouse connected to a Powerline communication module must have an identification number (1, 2 or 3).
- To improve the response time, preferentially select channels 2 or 3.



17.9 Configuring a non-Boost lighthouse (WPS power supply)

	<ul style="list-style-type: none"> • Switch on the power (ON). • Switch off the lighthouse (if necessary). • Press the button for 15 to 20 seconds to enter the configuration menu 	
	<ul style="list-style-type: none"> • The upper LED lights up to indicate that you have entered the configuration menu. 	
	<ul style="list-style-type: none"> • Press the + or - keys to select the communication channel. 	
	<p>Lower LEDs off</p>	<ul style="list-style-type: none"> • Communication is disabled
	<p>First LED on</p>	<ul style="list-style-type: none"> • Communication channel 1 is enabled
	<p>Second LED on</p>	<ul style="list-style-type: none"> • Communication channel 2 is enabled
	<p>Third LED on</p>	<ul style="list-style-type: none"> • Communication channel 3 is enabled


RECOMMENDATION

The communication channel selected must correspond to the micro-switch configuration.









Checking the AIM (Automatic Illumination Management) option


	<ul style="list-style-type: none"> • Blue LED lit 	<ul style="list-style-type: none"> • AIM Mode enabled
	<ul style="list-style-type: none"> • Blue LED off 	<ul style="list-style-type: none"> • AIM Mode disabled • Press the button to enable the AIM function and switch on the blue LED

Saving the configuration

	<ul style="list-style-type: none"> • Press the ON/OFF button to save the configuration and close the configuration menu. • Switch off the power (OFF). • Switch on the power (ON). • The control keypad and the RJ-45 interface are operational. 	
---	--	--


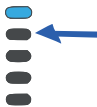
17.10 Configuring the lighthouse (WPS power supply)

	<ul style="list-style-type: none"> • Switch on the power (ON). • Switch off the lighthouse (if necessary). • Press the button for 15 to 20 seconds to enter the configuration menu. 	
	<p>First LED on</p>	<ul style="list-style-type: none"> • Communication channel 1 is enabled.
	<ul style="list-style-type: none"> • Press the  or  keys to select the communication channel. 	
	<p>Second LED on</p>	<ul style="list-style-type: none"> • Communication channel 2 is enabled.
	<p>Third LED on</p>	<ul style="list-style-type: none"> • Communication channel 3 is enabled.
	<p>Lower LEDs off</p>	<ul style="list-style-type: none"> • Communication is disabled.


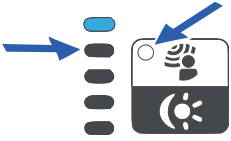
 **WARNING!**

The communication channel selected must correspond to the micro-switch configuration.


PWD 300-500 Boost mode selection

	<ul style="list-style-type: none"> • Mode button 	<ul style="list-style-type: none"> • Press the Mode button for two seconds to turn the LED on or off (as indicated below).
	<ul style="list-style-type: none"> • Light intensity bargraph 	<ul style="list-style-type: none"> • When the LED indicated is lit, Boost mode is enabled. • When the LED indicated is off, Boost mode is disabled.

PWD 700-500 Boost mode + AIM selection

	<ul style="list-style-type: none"> • Mode button 	<ul style="list-style-type: none"> • Press the Mode button for two seconds to turn the LED on or off (as indicated below).
	<ul style="list-style-type: none"> • Light intensity bargraph • Mode button LED 	<ul style="list-style-type: none"> • When the bargraph LED shown is lit, Boost mode is enabled. • When the bargraph LED shown is off, Boost mode is disabled. • When the blue LED is lit, AIM mode is enabled. • When the blue LED is off, AIM mode is disabled.

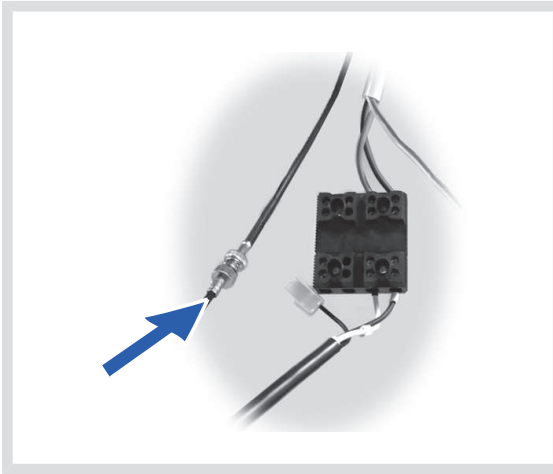
Saving the configuration

	<ul style="list-style-type: none"> • Press the ON/OFF button to save the configuration and close the configuration menu. • Switch off the power (OFF). • Switch on the power (ON). • The control keypad and the RJ-45 interface are operational.
---	--

18 Video connections

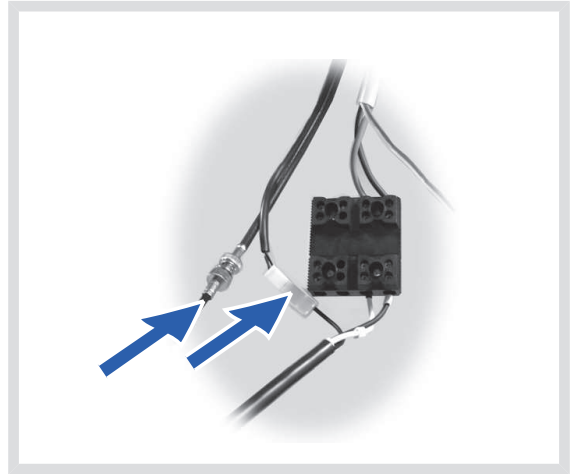
18.1 On the anchor point

Fixed focus camera



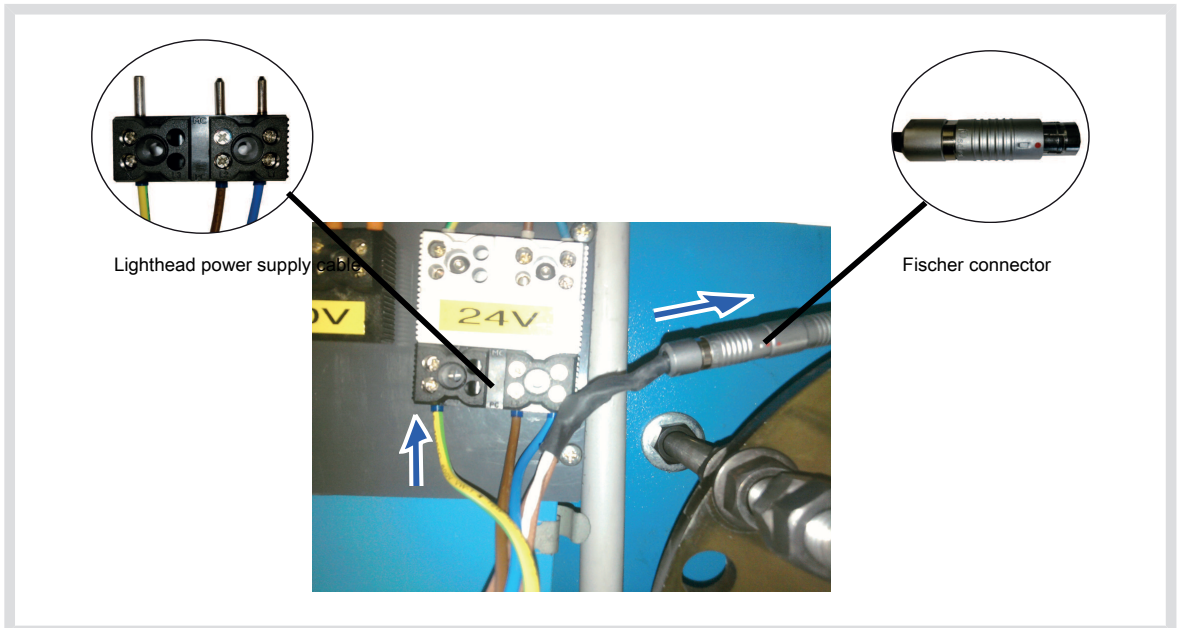
- Connect the BNC male connector on the lighthead with the BNC female connector on the video cable of the screen to be connected.

Zoom lens camera



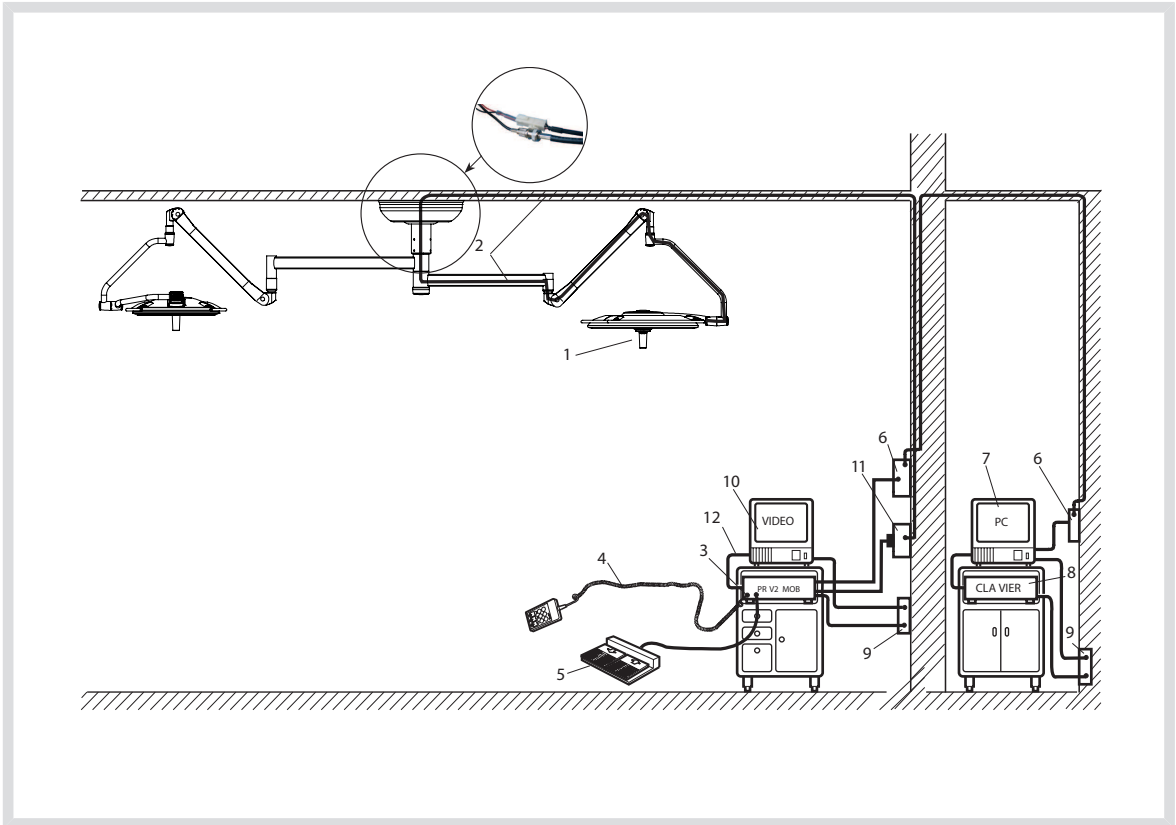
- Connect the data connector and the BNC connector to the cable (ref. 5.672.03.146 or 5.672.03.147) to the PRV2 BOX or PRV2 MOB control box.

HD camera



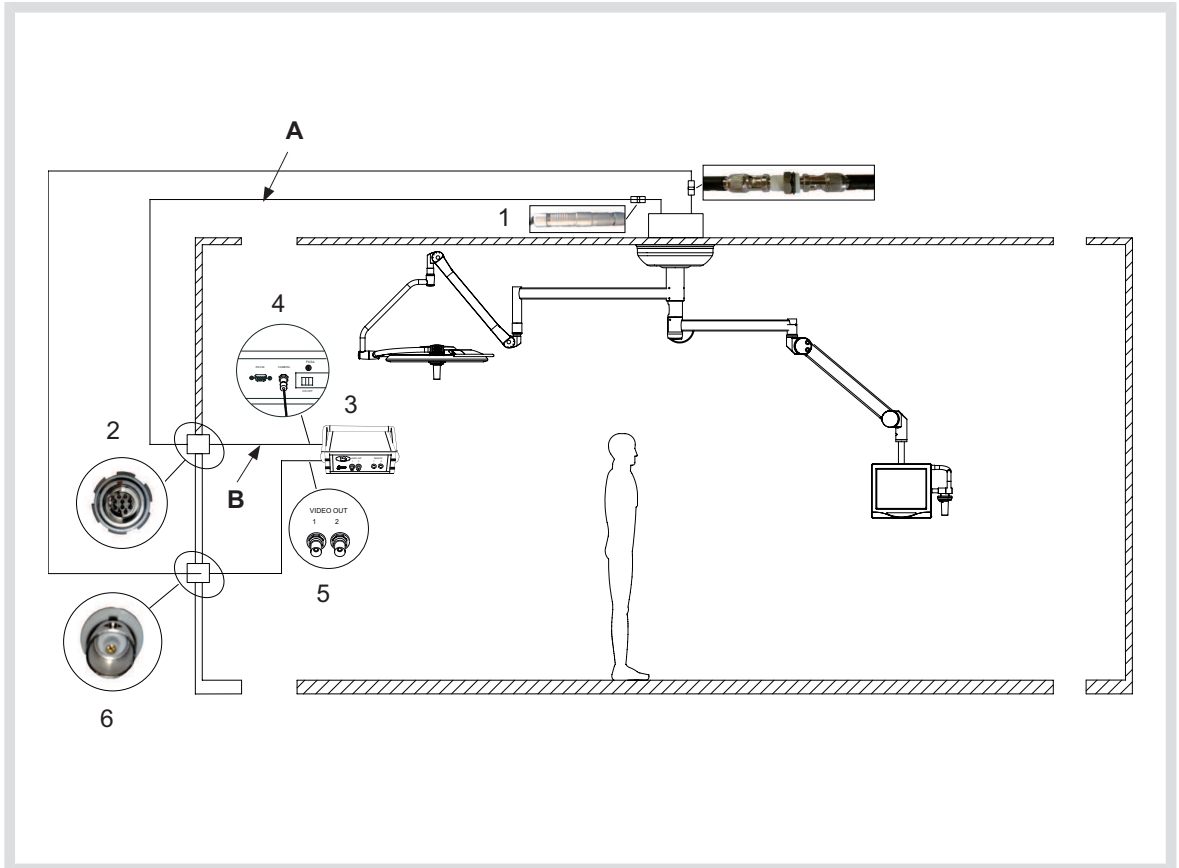
- Connect the Fischer connector to the cable leading to the ORCHIDE control unit.

18.2 Installation diagram: Prismavision on an SD suspension



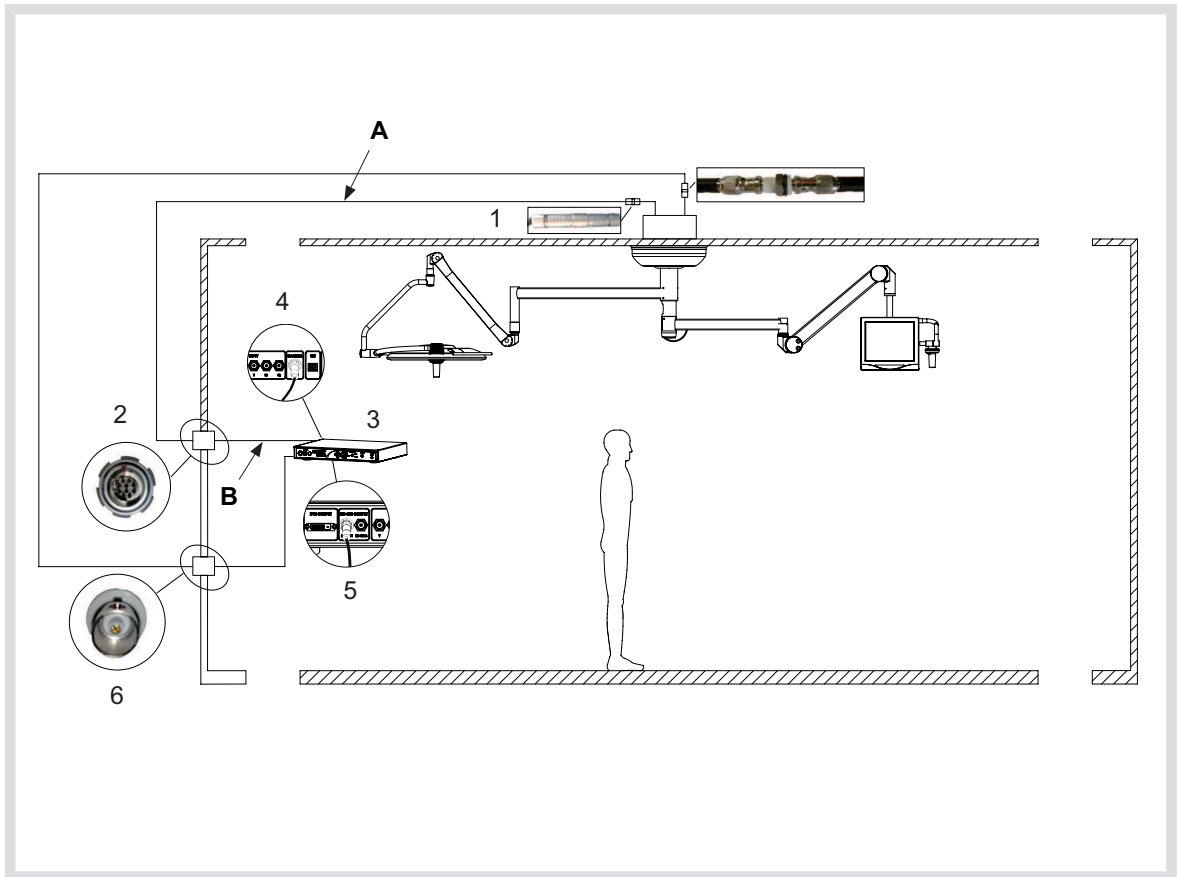
- 1 Zoom lens camera
- 2 Video and camera power supply cable
- 3 Camera power supply unit:
 - Camera On/Off button
 - BNC outlets for monitor link (2 ext)
 - Remote control socket
 - Control pedal socket
- 4 Remote control
- 5 Control pedal (optional)
- 6 RS232 or RS422 wall-mounted remote jack
- 7 PC (not supplied by Maquet SA) connected via an RS232 or RS422 cable (not supplied by Maquet SA)
- 8 Keyboard (not supplied by Maquet SAS) connected to the PC
- 9 Mains power supply
- 10 Monitor (not supplied by Maquet SAS) connected by a cable
- 11 Wall-mounted video socket
- 12 BNC video cable

18.3 Installation diagram: Prismavision on an HD suspension



- 1 Fischer connector
- 2 Video wall connection
- 3 Prismavision control unit
- 4 Prismavision control input
- 5 PRV MOB composite video output
- 6 Wall-mounted remote BNC jack
- 7 BNC connector
- A **YPbPr HD cable (ceiling-wall)**
 15 m: Ref. 5 677 05 901
 25 m: Ref. 5 677 05 902
- B **HD wall-unit cable**
 Prismavision PRV4 cable: Ref. 5 677 05 905

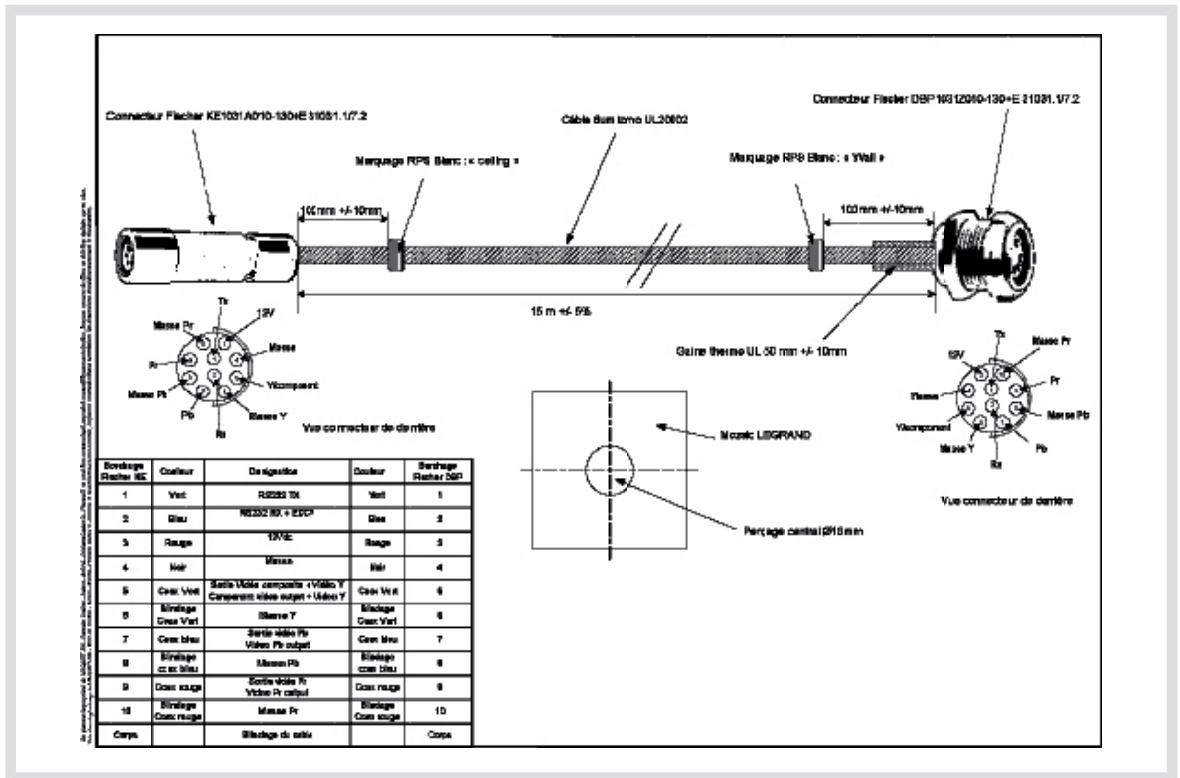
18.4 Installation diagram: ORCHIDE camera on an HD suspension



- 1 Fischer connector
- 2 Video wall connection
- 3 ORCHIDE control unit
- 4 ORCHIDE camera control input
- 5 HD video output (HD-SDI; YPbPr)
- 6 Wall-mounted remote BNC jack
- 7 BNC connector
- A **YPbPr HD cable (ceiling-wall)**
15 m: Ref. 5 677 05 901
25 m: Ref. 5 677 05 902
- B **HD HD YPbPr wall-unit cable**
ORCHIDE cable: Ref. 5 677 05 002

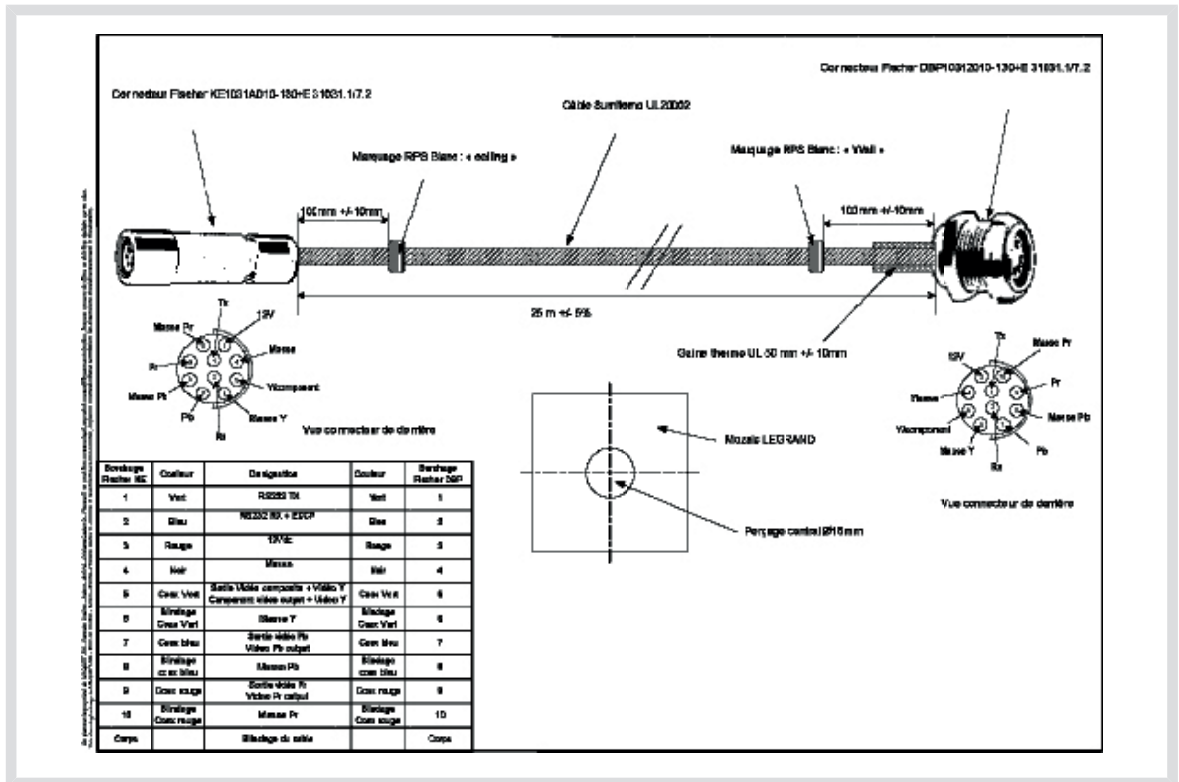
18.5 Wiring diagrams

15 m HD YPbPr CEILING-WALL CABLE



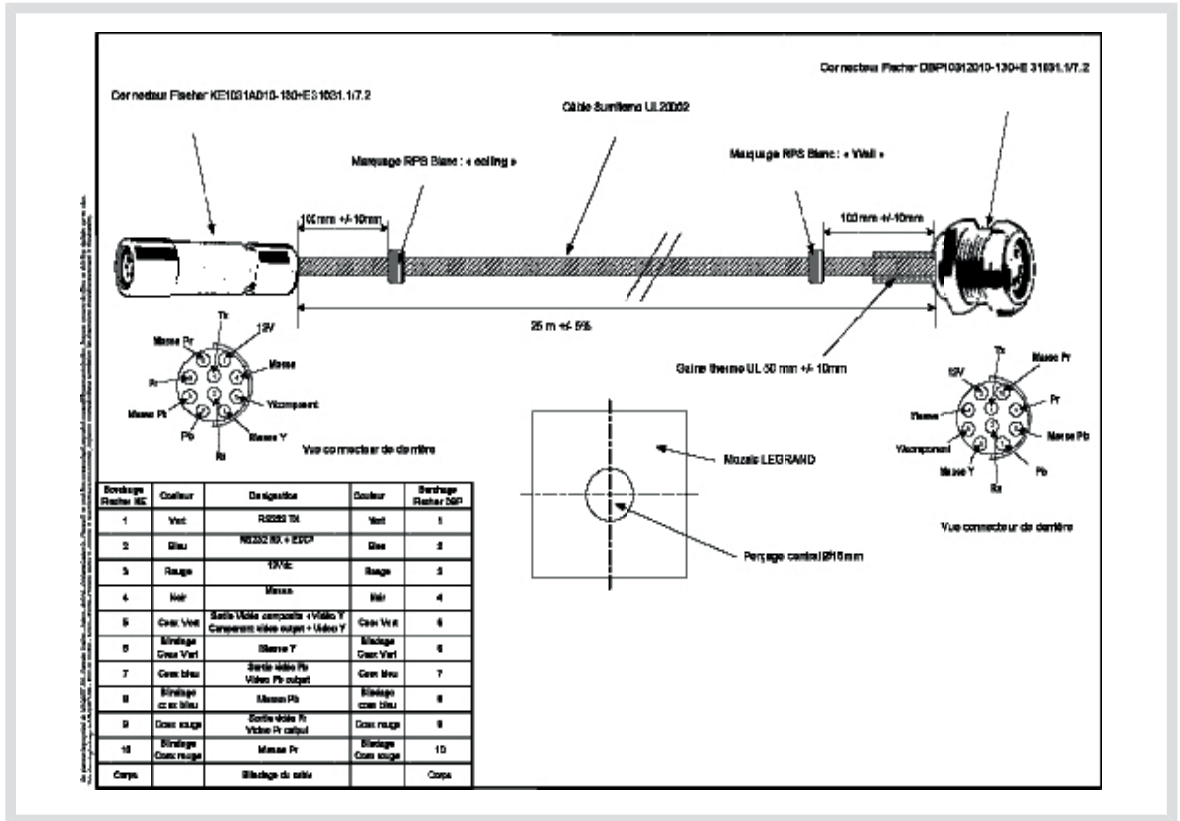
Ref. 5 677 05 901

25 m HD YPbPr CEILING-WALL CABLE



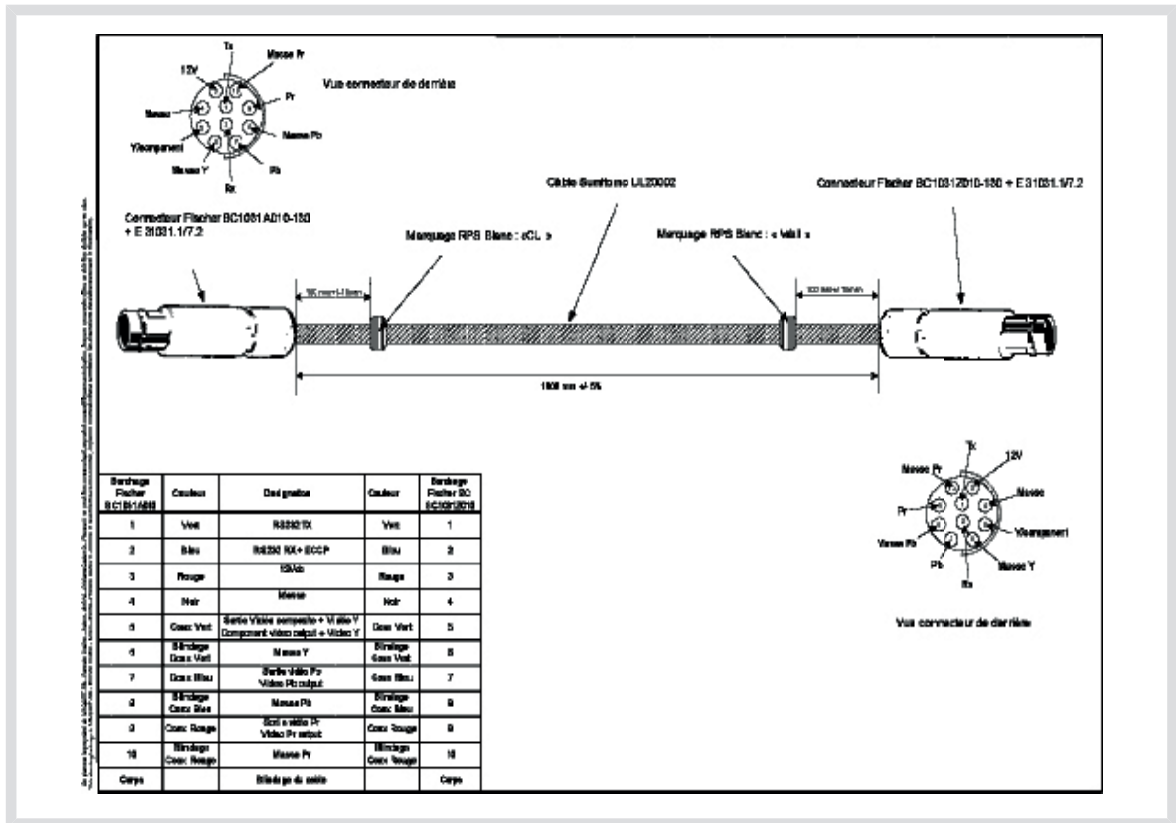
Ref. 5 677 05 902

HD WALL-SD UNIT CABLE ADAPTER



Ref. 5 677 05 905

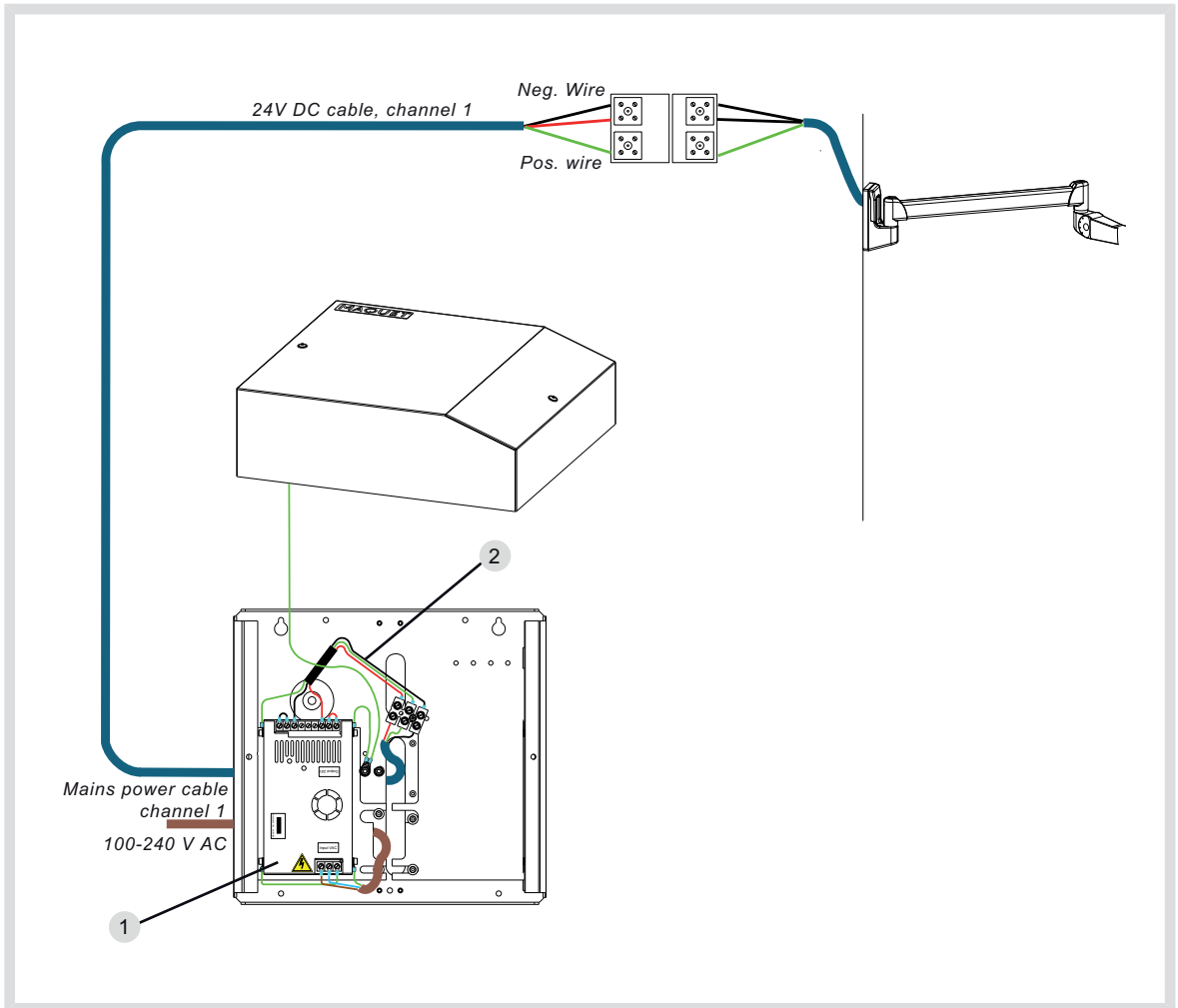
HD YPbPr WALL-UNIT CABLE



Ref. 5 677 05 002

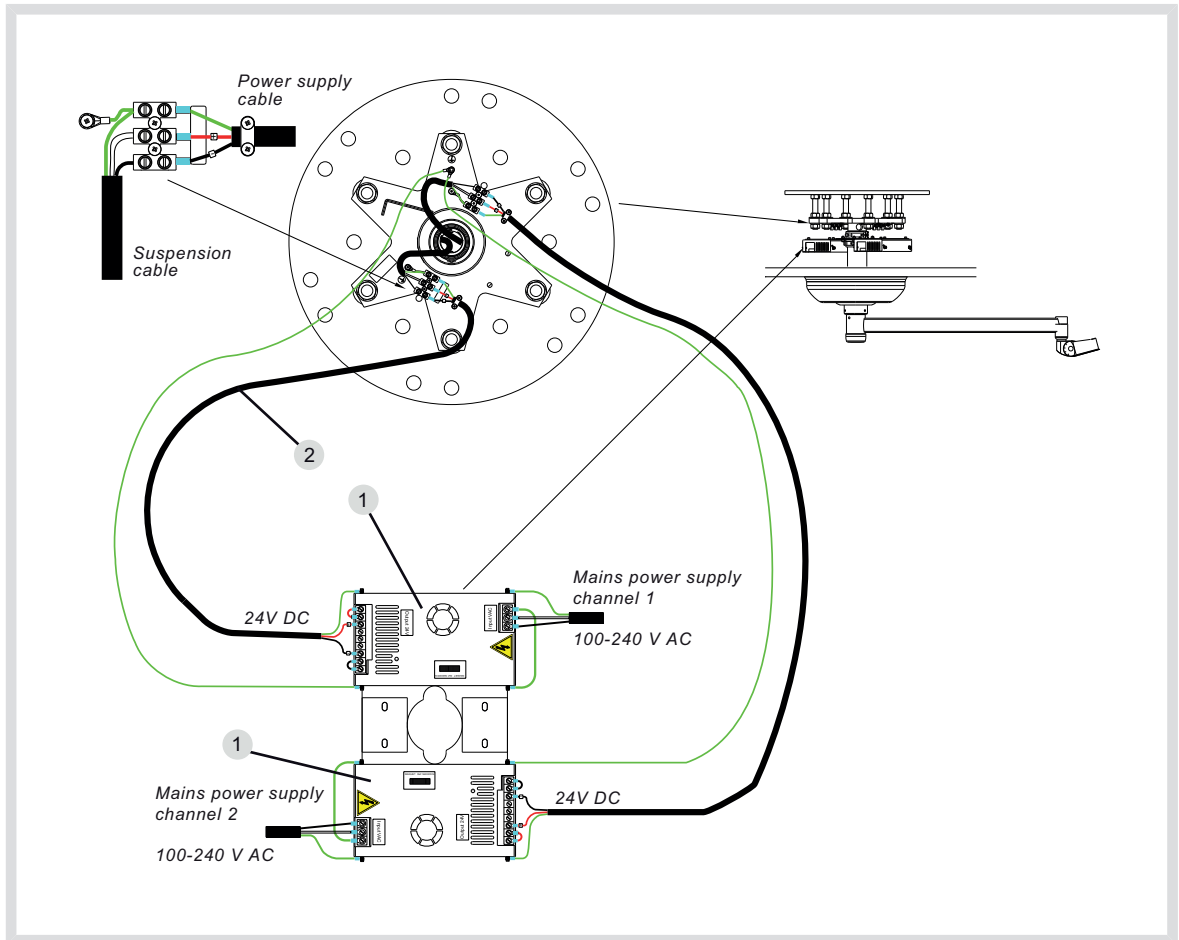
19 Electrical connections (BPS power supply)

19.1 Wall-mounted BPS



1	5 683 30 541	BPS 10-20-10P-20P POWER SUPPLY
2	5 683 30 542	BPS 10-20 24 V WIRING

19.2 Ceiling-mounted BPS



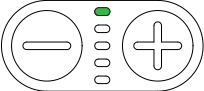




1	5 683 30 541	BPS 10-20-10P-20P POWER SUPPLY
2	5 683 30 543	BPS 10-20 24 V WIRING

19.3 Configuring a non-Boost lighthouse (BPS power supply)

NOTICE






The lighthouse is configured for use with a Powerline communication module. If the BPS power supply is installed, this function must be disabled before use.

	<ul style="list-style-type: none"> • Switch on the power (ON). • Switch off the lighthouse (if necessary).
	<ul style="list-style-type: none"> • The red LED indicates configuration with a Powerline communication module.
	<ul style="list-style-type: none"> • Press the button for 15 to 20 seconds to enter the configuration menu.
	<ul style="list-style-type: none"> • Press the '-' button to disable communication.
	<ul style="list-style-type: none"> • Communication is disabled for use without a Powerline communication module.
	<ul style="list-style-type: none"> • Press the ON/OFF button to confirm the configuration and exit the configuration menu.


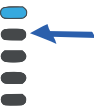

19.4 Configuring a Boost lighthouse (BPS power supply)

NOTICE

The lighthouse is configured for use with a Powerline communication module. If the BPS power supply is installed, this function must be disabled before use.

	<ul style="list-style-type: none"> • Switch on the power (ON). • Switch off the lighthouse (if necessary).
	<ul style="list-style-type: none"> • The red LED indicates configuration with a Powerline communication module.
	<ul style="list-style-type: none"> • Press the button for 15 to 20 seconds to enter the configuration menu.
	<ul style="list-style-type: none"> • Press the '-' button to disable communication. 
	<ul style="list-style-type: none"> • Communication is disabled for use without a Powerline communication module.

Selecting boost mode

	<ul style="list-style-type: none"> • Mode button 	<ul style="list-style-type: none"> • Press the Mode button for two to three seconds to turn the LED on or off (as indicated below).
	<ul style="list-style-type: none"> • Light intensity bar-graph 	<ul style="list-style-type: none"> • When the LED shown is lit, Boost mode is enabled. • When the LED shown is off, Boost mode is disabled.
		<ul style="list-style-type: none"> • Press the ON/OFF button to confirm the configuration and exit the configuration menu.

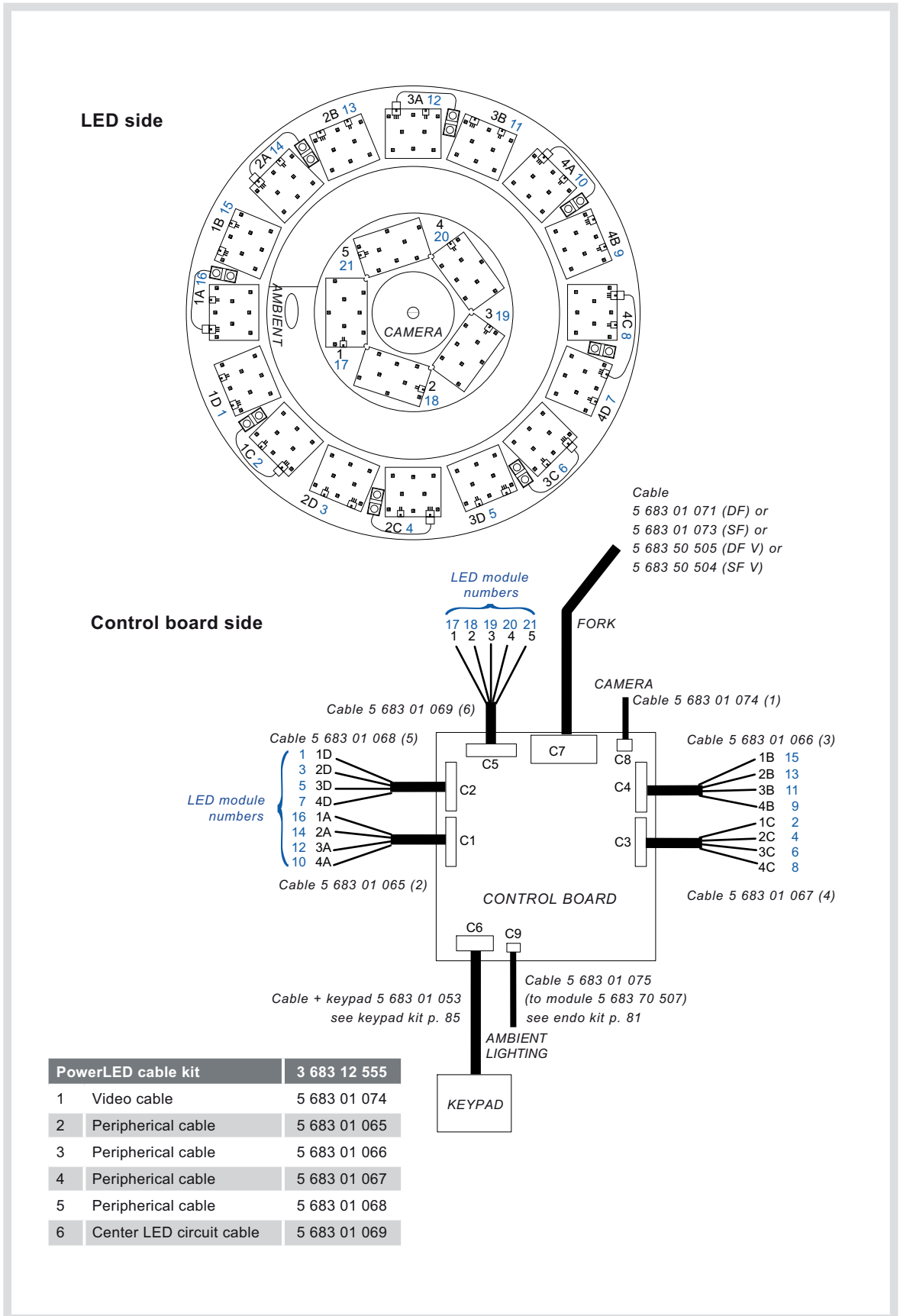


WARNING!

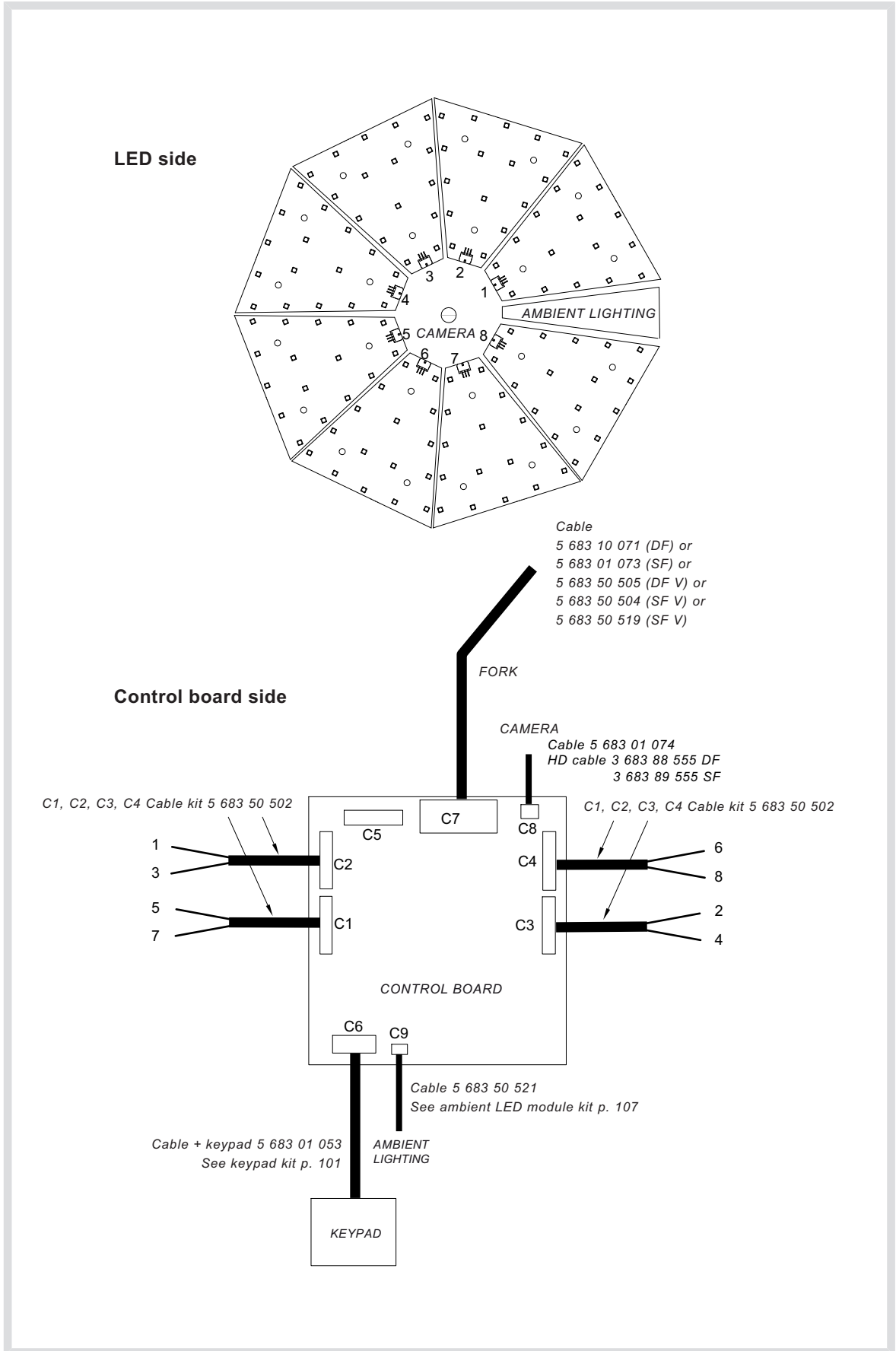
Boost mode may not be disabled on the PowerLED range.

20 Lighthouse internal wiring

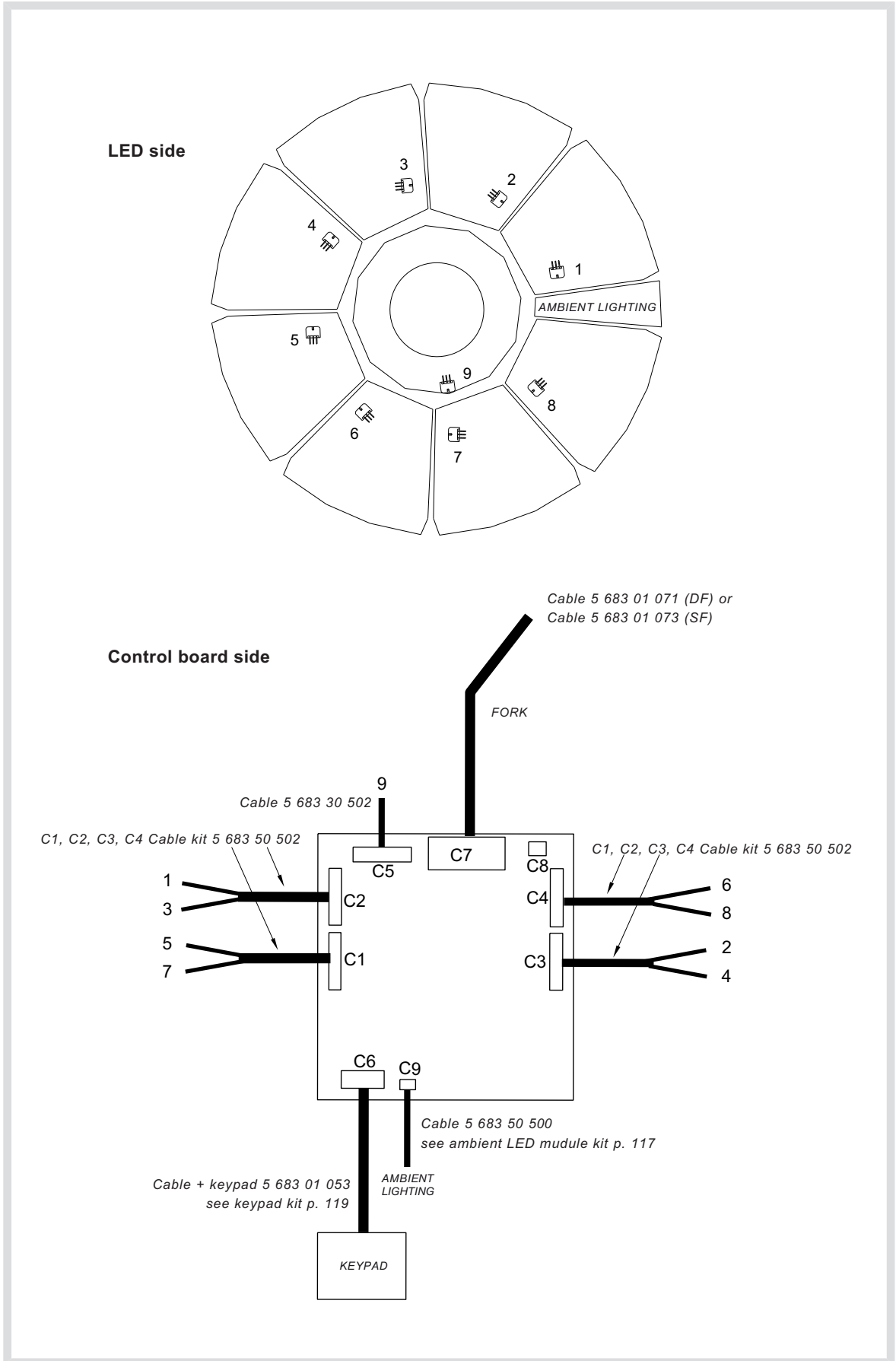
20.1 PowerLED 700



20.2 PowerLED 500



20.3 PowerLED 300



21 Communication protocol

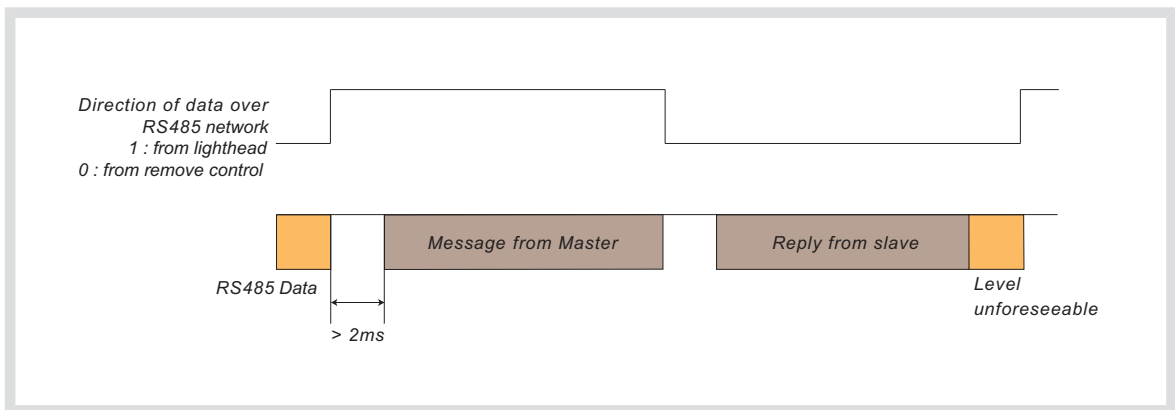
21.1 Subject

- The section describes the interface between PowerLED/HLED lighthoods and an external remote control.

HARDWARE

- Communication uses an RS485 network.
- A master/slave link is used; the lighthouse is always the master.
- One RS485 link per lighthouse.
- Data is transmitted at 4800 baud with no parity.

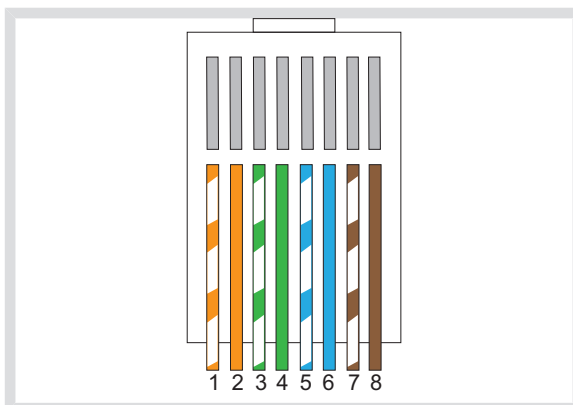
21.2 RS485 diagram



- The 2 ms delay ensures that the “1” state is stable for receiving data before the message starts. A slave in sending mode must be sure that the last stop bit of the last byte has been fully transmitted before setting its RS485 driver to receive mode.
- The lighthouse is not always used with a remote control. The lighthouse sends a remote message once every 10 seconds in order to find out if the remote control is present. If a remote control replies, it is monitored continuously (time delay of 100 to 500 ms between each message).
- If a reply is not received within 2 seconds, the remote control is considered absent and a new test will be sent after 10 seconds.

21.3 Wiring

- The Modbus signal is available on the RJ-45 connectors on the ceiling interface or in the electrical power supply. For each lighthouse connected, all the RJ-45 connectors have the same signals.



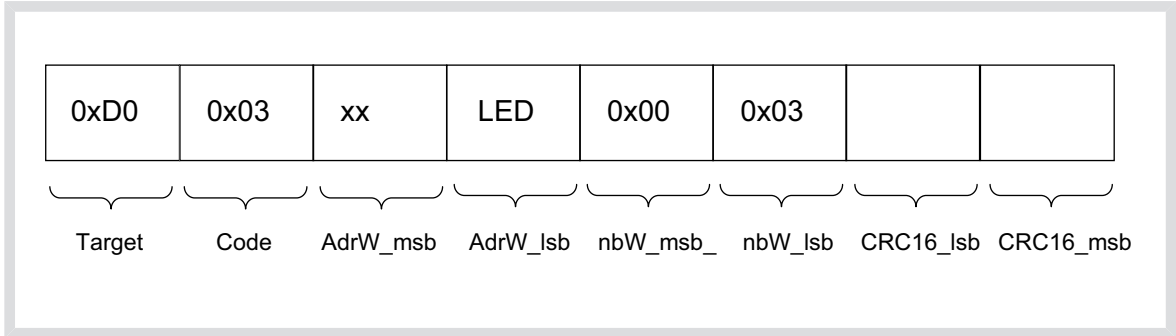
- | | |
|---|----------------|
| 1 | White / Orange |
| 2 | Orange |
| 3 | White / Green |
| 4 | Green |
| 5 | White / Blue |
| 6 | Blue |
| 7 | White / Brown |
| 8 | Brown |

21.4 Protocol

- The protocol used is a simplified Modbus protocol with two types of message.
- The lighthouse is the master.
- The slave address is always D0h.
- The reference used for the the Modbus protocol is the Modicon Modbus Protocol Reference Guide PI-MBUS-300 Rev. J.





21.4.1 Read operation

- The master sends the following message:



Address of target remote control	0xD0
Read mode	0x03
Most significant bit of the address of the first word	xx (unimportant)
Least significant bit of the address of the first word	LED
Most significant bit of the number of registers to be read	0x00 (2 bytes for 1 register)
Least significant bit of the number of registers to be read	0x03 (2 bytes for 1 register)
Most significant bit	CRC16
Least significant bit	CRC16

- The LED address is used to inform the remote control of the state of the lighthouse, as on the local keypad:

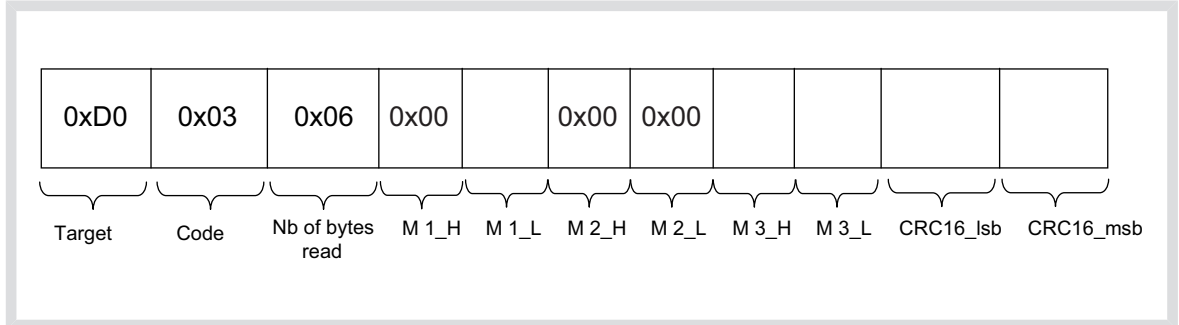
	On/Off button	
	Green LED	Mains power supply on
	Orange LED	Backup power supply on
	Flashing red LED	Backup power supply on, backup battery nearly discharged.
	Red LED	Fault detected
	Illumination level adjustment	
	Scrolling LEDs: Battery charge indicator	
	Switchover to AIM mode	

- The LED bits are as follows (0 = off, 1 = on):

LED.b7	Green main power supply LED
LED.b6	Red battery LED (combined with previous LED = yellow)

LED.b5	Blue AIM mode indicator LED
LED.b4	Ambient lighting mode indicator
LED.b3 to b0	Level indication (0 to 10)

- The ambient lighting levels are 0, 2, 4, 6, 8 and 10.
- In AIM mode (surgeon head detection), the levels are 0, 2, 4, 6, 8 and 10.
- The remote control sends back the following message:

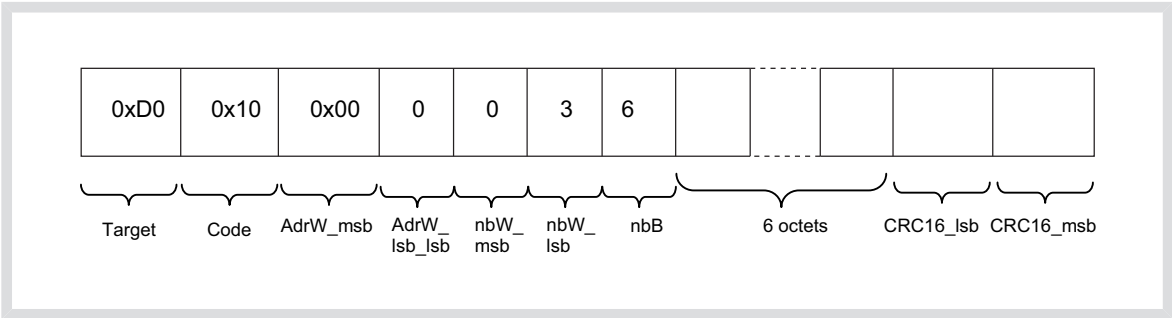


	xx (unimportant)	
	M1_L	keypad state
	xx	no action
M1_H	Bit 0 set (0x01)	the remote control's ON/OFF button is pressed
	Bit 1 set (0x02)	the '-' (small sun) button is pressed
	Bit 2 set (0x04)	the '+' (big sun) button is pressed
	Bit 3 set (0x08)	the mode button is pressed
	0x0E	the Boost button is pressed
M2_H	xx (unimportant)	
M2_L	xx (unimportant)	
M3_H	address of counter queried (1 to 7)	
	0x01	ON/OFF counter
	0x02	standard mode time counter
	0x03	automatic mode time counter
	0x04	ambient light time counter
	0x05	total time counter
	0x06	backup test number
	0x07	number of backup switches
M3_L	query mode (1: read counter; 2: reset counter)	

- Long or short button presses are possible, as explained in the user manual. It may be useful to query a counter (read mode) for more information about the configuration.
- When a counter is queried, the lighthouse sends a predetermined number of registers (see following section).

21.4.2 Predetermined multiple registers

- As explained in the previous section, each time a counter is queried, the lighthouse sends a predetermined multiple number of registers:



- target remote control address
- code Modbus frame type (16-bit frame type, 0x10 in hexadecimal format)
- AdrW_msb address of first word (always '0')
- AdrW_lsb
- nbW_msb always '0'
- nbW_lsb number of 16-bit data words
- nbB number of data bytes (=2×nbW_lsb)
- 6 data bytes counter queried (value read or '0', depending on type of action) (2 bytes)
- power supply status (for wall-mounted power supply units)
- backup charger status (only with Maquet batteries and charger)
- battery level (only with Maquet batteries and charger)
- xx (unimportant)

- The meaning of the power supply status bits is as follows:

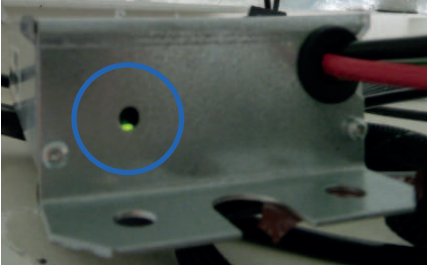
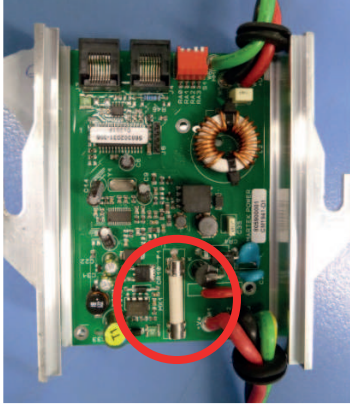
Bit0	communication fault between the two lighthouse power supplies
Bit1	battery (Maquet) charging
Bit2	backup test requested
Bit3	backup test under way
Bit4	charger present
Bit5	backup fault
Bit6	power supplied by battery backup
Bit7	power supplied by mains supply

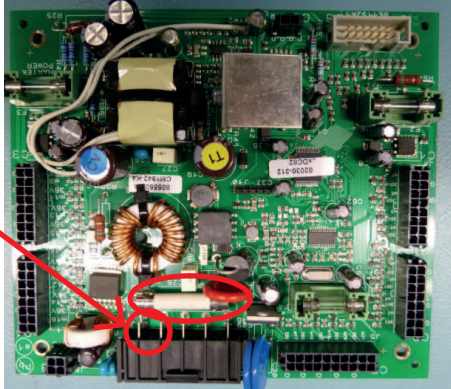
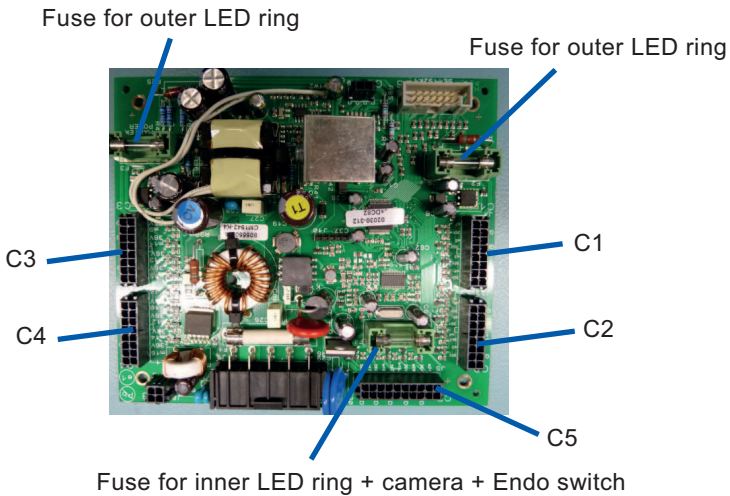
- The meaning of the charger status bits is as follows:

Bit0	charger fault
Bit1	charger on standby (no charge, no discharge)
Bit2	battery discharging
Bit3	battery charging
Bit4	battery level very low
Bit5	not used
Bit6	not used
Bit7	Maquet charger present

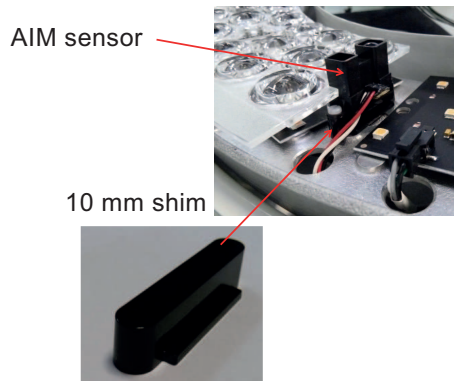
- The battery level ranges from 0 to 100 and corresponds to the charge percentage of the Maquet battery pack.

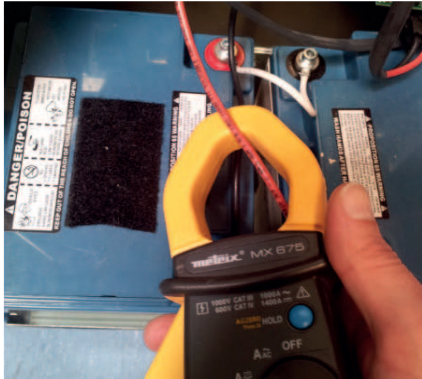
22 Troubleshooting

Problem	Corrective action
<ul style="list-style-type: none"> The lighthouse does not turn on (no LEDs lit on the lighthouse Lexan panel) 	<ul style="list-style-type: none"> Depending on the power supply used: <ul style="list-style-type: none"> – Check the output voltage from the bypass board (43 V DC) or – Check the output voltage from the WPS10P24 power supply (24 V DC) or – Check the output voltage from the BPS power supply (24 V DC) Next check that the voltage reaches the lighthouse via the Powerline communication module. Check that the green LED on the Powerline communication module is lit.
	
	<p>If it is not, but the power supply reaches the module, remove the four screws from the Powerline communication module to access the fuse (see photo below).</p>
	


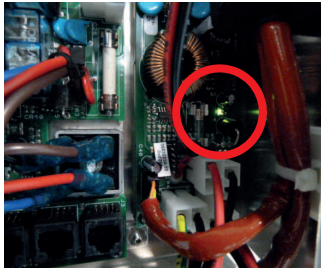



Problem	Corrective action
	<ul style="list-style-type: none"> • A 15 A fuse protects the lighthouse against a polarity inversion. Note: a polarity inversion could damage the Powerline communication module and the RS485 communication module on the bypass board. • To check the voltage on the lighthouse, see the “Replacing the control board” section. Check the voltage on the control board (see photo below). 
<ul style="list-style-type: none"> • One LED segment does not light up 	<ul style="list-style-type: none"> • The LED segment is not connected properly or is faulty. See the “Maintenance procedures” section.
<ul style="list-style-type: none"> • Several LED segments do not light up 	<ul style="list-style-type: none"> • See the “Lighthouse internal wiring” section. Depending on the number of LED segments that are off and the type of lighthouse (700, 500 or 300), check the connector concerned (C1, C2, C3, C4, C5) and the fuse. The port associated with the connector may also be damaged. To demonstrate this, invert for example C1 and C2 or C3 and C4. 



Problem	Corrective action
<ul style="list-style-type: none"> One or more LED boards remain lit 	<ul style="list-style-type: none"> Control board obsolete, software issue. Replace the control board.
<ul style="list-style-type: none"> The control board has power but the Lexan panel on the lighthead is off (no LEDs lit on the Lexan panel) or partly off. 	<ul style="list-style-type: none"> Check the connections to the Lexan panel (on the Lexan panel itself and on the control board). If the Lexan panel is a wall-mounted backup unit, check that the wiring loom was not damaged during installation. The Lexan panel is defective. Replace the Lexan panel. Control board programming problem. Replace the control board.
<ul style="list-style-type: none"> The Lexan panel is frozen in a particular state and does not respond to any button presses. 	<ul style="list-style-type: none"> If the Lexan panel is a wall-mounted backup unit, check that the wiring loom was not damaged during installation.
<ul style="list-style-type: none"> The lighthead turns on or off on its own (bad contact). 	<ul style="list-style-type: none"> Identify which movement causes this phenomenon. Check the connector between the spring arm and fork or spring arm and suspension arm. Replace the defective connector or spring arm, as necessary.
<ul style="list-style-type: none"> The scrolling pattern on the LEDs to indicate that the batteries are charging is not displayed. 	<ul style="list-style-type: none"> The LEDs scroll on the master lighthead only: <ul style="list-style-type: none"> Check that the charger board is correctly connected to the top bypass board. The lighthead connected to this board will be the master lighthead. Check the addressing of the Powerline communication module, which must be configured as “Maquet backup”. If no wiring defects are identified, the charger board should be replaced.
<ul style="list-style-type: none"> The ambient LED segment does not light up. 	<ul style="list-style-type: none"> Check the connection on the control board (see the “Lighthead internal wiring” section). Defective ambient LED segment.
<ul style="list-style-type: none"> When AIM mode is enabled, the LED segments turn off at random with nothing in front of the sensors. 	<ul style="list-style-type: none"> Check that the AIM sensors are all at the same distance from the underside and check that the shim is in place under the sensors: either two 2 mm shims or one 10 mm shim, as shown below.



Problem	Corrective action																											
<p>The red LED on the Lexan panels turns on intermittently.</p>	<ul style="list-style-type: none"> • Communication is affected by interference. Filter ARD568301524 must be added. Installation of this filter is explained in International Technical Support Newsletter 2013-06. • For information, the filter is provided with the following power supplies: <table border="1" data-bbox="751 365 1295 714"> <thead> <tr> <th>Part number</th> <th>Description</th> <th>First serial number</th> </tr> </thead> <tbody> <tr> <td>5 683 02 950</td> <td>WPS10</td> <td>392007170001</td> </tr> <tr> <td>5 683 02 987</td> <td>WPS10PR</td> <td>392007100001</td> </tr> <tr> <td>5 683 02 985</td> <td>WPS10PR24</td> <td>392007110001</td> </tr> <tr> <td>5 683 02 951</td> <td>WPS11</td> <td>399410990001</td> </tr> <tr> <td>5 683 02 952</td> <td>WPS12</td> <td>392011630001</td> </tr> <tr> <td>5 683 02 953</td> <td>WPS20</td> <td>392011670001</td> </tr> <tr> <td>5 683 02 954</td> <td>WPS21</td> <td>399783950001</td> </tr> <tr> <td>5 683 02 955</td> <td>WPS22</td> <td>392011750001</td> </tr> </tbody> </table> 	Part number	Description	First serial number	5 683 02 950	WPS10	392007170001	5 683 02 987	WPS10PR	392007100001	5 683 02 985	WPS10PR24	392007110001	5 683 02 951	WPS11	399410990001	5 683 02 952	WPS12	392011630001	5 683 02 953	WPS20	392011670001	5 683 02 954	WPS21	399783950001	5 683 02 955	WPS22	392011750001
Part number	Description	First serial number																										
5 683 02 950	WPS10	392007170001																										
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5 683 02 951	WPS11	399410990001																										
5 683 02 952	WPS12	392011630001																										
5 683 02 953	WPS20	392011670001																										
5 683 02 954	WPS21	399783950001																										
5 683 02 955	WPS22	392011750001																										
<p>The battery voltage is abnormally low.</p>	<ul style="list-style-type: none"> • In all cases, if the battery voltage is less than 19.5 V, they will no longer be charged, and will be considered faulty on the WPS (red LED on the Lexan panel). This generally occurs if the charger board is defective or if the main power supply has been cut for an extended period of time. <ul style="list-style-type: none"> – The batteries must be replaced. Use a clamp-on ammeter to check that a charging current flows with the new batteries: recharging is shown by scrolling LEDs on the keypad of the master lighthouse when the lighthouse is turned off. – If there is no charging current, check that the Powerline units are configured with batteries, or replace the charger board if necessary. 																											

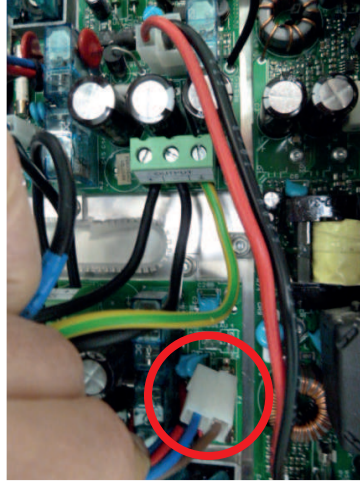
Problem	Corrective action
<ul style="list-style-type: none"> The red LED is lit steadily on the Lexan panel (lighthouse or remote). 	<ul style="list-style-type: none"> Troubleshooting relative to a fault displayed on one or more lighthoods (red LED) <pre> graph TD Start[Red fault LED lit on the lighthouse] --> D1{Installation with Powerline?} D1 -- N --> Box1[The problem may stem from the control system. See section 18.1 for details.] D1 -- Y --> Box2[Turn off the lighthouse and hold the button for 5 seconds. Select channel 0.] Box2 --> D2{Lighthouse always in fault?} D2 -- N --> Box1 D2 -- Y --> Box3[Turn off the lighthouse and hold the button for 5 seconds. See the following pages for possible causes and solutions.] </pre>

Problem	Corrective action
	<ul style="list-style-type: none"> • Incorrect backup configuration on Powerline communication module (e.g. configured with external backup instead of Maquet backup). • Check that the charger board is powered (LED). In principle, the controls on the remote Lexan panel should operate (communication always functional). • To confirm that the problem lies with the charger board, configuring the Powerline communication module to “external backup” should inhibit the fault. Note: after making any changes to the addressing of the Powerline communication modules or lighthoods, switch the system OFF and ON again (including the backup). 
	<ul style="list-style-type: none"> • The problem lies with the batteries. Check the battery voltage (> 19.5 V) and connections. Check the fuse and its rating (25 A). • If the voltage is abnormally low, see section 18.12. • In principle, the controls on the remote Lexan panel should operate (communication always functional).
	<ul style="list-style-type: none"> • If the controls on the remote Lexan panel do not work, there is an addressing problem. Check that the addressing of the lighthouse and the Powerline communication module(s) are compatible. See the “Powerline communication module configuration” section. WARNING! After making any changes to the addressing of the Powerline communication modules or lighthoods, switch the system OFF and ON again (including the backup).
	<ul style="list-style-type: none"> • Communication problem between the bypass board and the Powerline communication module: check the RJ-45 cable. A crossover cable must not be used: check with an RJ-45 cable tester. If the WPS is in the operating theatre, a straight RJ-45 cable may also be connected directly. • The RS485 communication module on the bypass board may be damaged. The bypass board is functional if a Lexan panel connected directly to the board operates correctly.

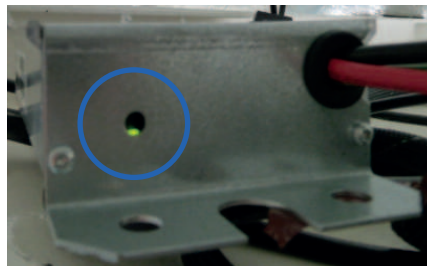
Problem	Corrective action
	<ul style="list-style-type: none">• If this fault occurs only on the slave lighthouse (usually after installation), the wiring loom between the two bypass boards is inverted.
	<ul style="list-style-type: none">• Both lightheads are in fault status but operate fully. RS485 communication is degraded (commands are sent but no response is received). The problem may lie with the communication module on the bypass board or with the Powerline communication module.

If the fault persists

- If the lighthoods remain faulty, especially after installation, the first step is to isolate each lighthouse in order to eliminate any crossed cables (e.g. master Bypass RJ-45 connected to slave lighthouse, slave Bypass power connected to master lighthouse). Start by identifying the master lighthouse. Disconnect the power supply of the lighthouse connected to the bottom bypass board in the WPS (the top bypass board is assigned to the master lighthouse).



- When the WPS is turned on again, the lighthouse which remains powered is thus the master lighthouse. Check which Powerline unit is connected to this lighthouse by checking which of the two is powered (green LED).



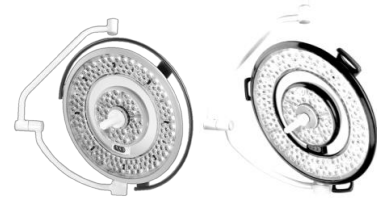
- The RJ-45 cable from the top bypass board in the WPS unit must therefore be connected to the Powerline communication module on the master lighthouse. Use an RJ-45 cable tester if necessary.
- Check that the master lighthouse no longer indicates a fault. Otherwise, press and hold the “-” button on the dimmer for 5 seconds, and then see the results and solutions.
- Once the master lighthouse is operating correctly, reconnect the other lighthouse. If the configuration has a charger board, the LEDs should scroll on the master lighthouse.

23 SW Service Protocol PM OR Lights POWERLED HLED-B-EN

SW Service Protocol Preventive Maintenance



Surgical Lights POWERLED / H LED



1. Product

Configuration REF		Configuration SN		Description	
Light Head 1 PN		Light head 1 SN		Description	
Light Head 2 PN		Light head 2 SN		Description	
Light Head 3 PN		Light head 3 SN		Description	
Installation Date		Location (department, OT No, OR No...)			

2. Customer

Address	Contact Name	Contact Phone Number	Service Order

3. Periodic replacement

To ensure safety and performance please follow the below recommendations.

Items	Periodicity	Replaced	Not replaced	N/A
All brakes	every year			
Suspension fixing screws (Tighten the screws to the recommended tightening torque)	every 6 years			
Bushing fixing screws (Tighten the screws to the recommended tightening torque)	every 6 years			
Spring arm safety segment	every 6 years			
Batteries	every 30 deep discharge cycles or every 3 years			

Form: STI-P01-F11-B-en

Please refer to the technical manual for detailed instructions and the annexes.

Document name: SW Service Protocol PM OR Lights POWERLED / H LED
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4. Other Parts replaced or need replacing

PN	Description	Qty	Replaced	Need replacing

5. Lubrication

	Pass	Fail	N/A
Lubrication of the suspension bushings			
Lubrication of the Light head bracket axles			
Lubrication of the flat screen holder			

6. Mechanical evaluation

	Pass	Fail	N/A
Check that the ceiling cover and seal is securely fitted (positioned, ...)			
Check the hardness of the suspension by pulling			
Check the verticality of the suspension tube			
Check the hold of the suspension covers			
Check the suspension brake adjustments			
Check the suspension fixing screws (If screws appear loosened, replace them, do not retighten these screws during maintenance, it can lead to breakage).			
Check the bushing fixing screws (If screws appear loosened, replace them, do not retighten these screws during maintenance, it can lead to breakage).			
Check the position and condition of spring arm snap ring			
Check all other fixing screws (Tighten them if necessary)			
Check the hold of the spring arm covers and metal strips			
Check the vertical stop of the spring arms			

Form: STI-P01-F11-B-en

	Pass	Fail	N/A
Check the balancing of the spring arms			
Check the presence and condition of the safety segment			
Check the presence of the spring arm safety sleeve and the presence of the fixing screw			
Check the hold of the light head covers and seals			
Check the light head brake adjustment			
Check the condition of the underside (no scratches, no cracks)			
Check the fixing of the light head handle holder			
Check the sterilizable handle locking mechanism			
Check the easy handling of the configuration			
No corrosion anywhere			
No paint chip anywhere			

7. Electrical evaluation

	Pass	Fail	N/A
Power Supply Output Voltage 1 (24 VDC < U < 42 VDC)			
Power Supply Output Voltage 2 (24 VDC < U < 42 VDC)			
Power Supply Output Voltage 3 (24 VDC < U < 42 VDC)			
Check the tightening of the wires on the terminal blocks			
Check if the Power supply is connected to the ground			
Check the condition of power supply unit			
Check the condition of the batteries (Inflated, oxidized terminal, ...)			
Check batteries' voltage			

Form: ST-P01-F11-B-en

8. Optical evaluation

Illumination	Acceptable values (klx)	Measured value (klx)	Pass	Fail	N/A
Ec Max PWD 300	70 < Ec < 160				
Ec Max PWD 300	70 < Ec < 160				
Ec Max PWD 500	70 < Ec < 160				
Ec Max PWD 500	70 < Ec < 160				
Ec Max PWD 700	70 < Ec < 160				
Ec Max PWD 700	70 < Ec < 160				

Measure the illumination at the center, at 1 meter, small light patch (with dimmer at max setting or Boost mode).
 The IEC 60601-2-41 standard indicates the limits between 40 000 lux minimum & 160 000 lux maximum.
 The minimum acceptable value has been calculated from the nominal illumination value of 100 Klux from PWD500/700 - 30%.

9. Electrical Safety Tests (IEC 62353)

	Limit (mΩ)	Measured values (mΩ)	Pass	Fail	N/A
Protective earth continuity 1	≤ 300 mΩ				
Protective earth continuity 2	≤ 300 mΩ				
Protective earth continuity 3	≤ 300 mΩ				

	Pass	Fail	N/A
Continuity test 1			
Continuity test 2			
Continuity test 3			

Test records should be enclosed to this report for any further use, when available.

Form: STI-P01-F11-B-en

Document name: SW Service Protocol PM OR Lights POWERLED / H LED

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10. Function test

Pass Fail N/A

All LEDs operate correctly			
ON / OFF (Light head keypad)			
Illumination increase / decrease level (Light head keypad)			
BOOST mode (Light head keypad)			
ENDO mode (Light head keypad)			
AIM mode (Light head keypad)			
Wall control panel operates correctly			
Camera operates correctly			
Switch over to battery mode and back to mains			
Batteries charge indicator			

11. Cleaning

Clean and remove the grease from external parts of the device	
---	--

12. Final evaluation

Device fully operational.	
Free from direct risk but deficiencies detected. May be corrected in short term.	
Device shall not be used until all deficiencies are corrected.	
Device no longer safe. Taking out of service is recommended.	

Comments

13. Processed by

Name / Title	Date			Signature
	<i>DD</i>	<i>MMM</i>	<i>YYYY</i>	

Form: ST-P01-F11-B-en

Document name: SW Service Protocol PM OR Lights POWERLED / H LED

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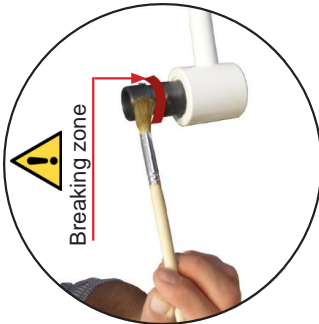
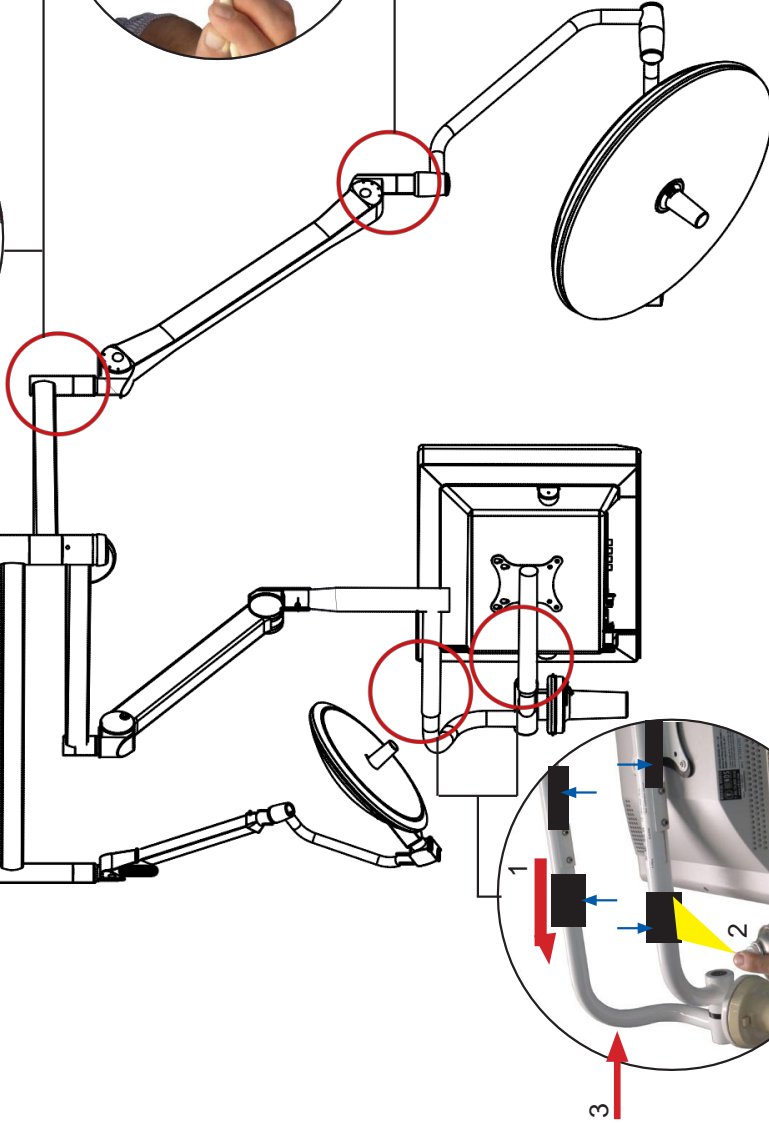
BEFORE APPLYING GREASE, THE AXE AND JOINTS ARE TO BE CLEANED USING A CLEAN CLOTH.



Cleanser / Grease remover



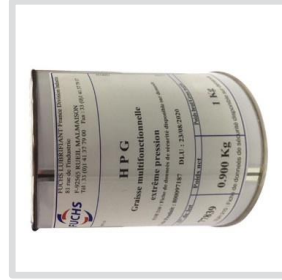
Breaking zone



Breaking zone



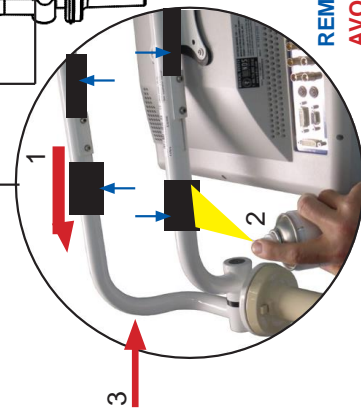
RECOMMENDED GREASE



Réf. SAV : ARD65900009
Or equivalent grease



Réf. SAV : ARD65900016

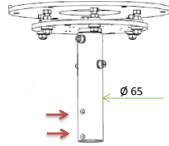
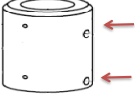
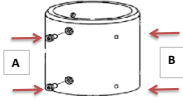
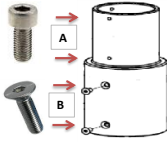
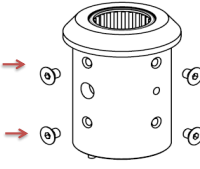
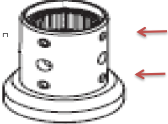
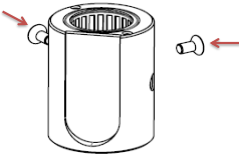
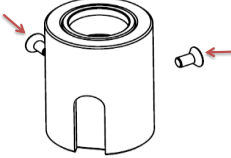
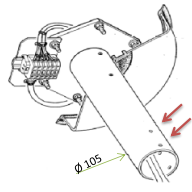
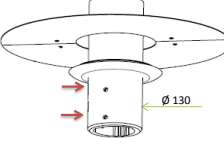
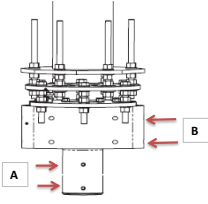


REMOVE ANY EXCESS GREASE USING A CLEAN CLOTH
AVOID APPLYING GREASE WHERE THE BREAKS ARE ACTIVE

SAFETY PARTS TO REPLACED EVERY 6 YEARS

SAFETY SCREWS :

Maquet recommends a preventive safety screw replacement every 6 years.

TUBES	ADAPTERS	BUSHINGS
<p>TUB 60</p> <p>SUSP. BLUE 30-80 SUSP. LCA40-50-100 SUSP. VOLISTA ACCESS</p>  <p style="text-align: center;">$\varnothing 65$</p> <p>P/N : ARD368835555 SET OF 4 PREGLUED SCREWS FHC M6X16 - 10.9</p> <p>Tightening torque : 16 Nm</p>	<p>ADPT 120 TO 60 ARD515088900</p>  <p>P/N : ARD315027555 SET OF 6 PREGLUED SCREWS CHC TB M6X20 10.9</p> <p>Tightening torque : 16 Nm</p> <hr/> <p>SET ADAPTER FOR TUBE HLX2 ARD567914999</p>  <p>A - P/N : ARD315027555 SET OF 6 PREGLUED SCREWS CHC TB M6X20 10.9</p> <p>B - P/N : ARD367014555 SET OF 6 PREGLUED SCREWS CHC M6X12 10.9</p> <p>Tightening torque : 16 Nm</p> <p style="text-align: center; background-color: #cccccc;">Not sold in US</p> <hr/> <p>SET ADAPTER FOR TUBE HANAU CITY ARD397807555</p>  <p>P/N : ARD397808555 SET OF 12 PREGLUED SCREWS CHC & FHC - 10.9</p> <p>A : Tightening torque : 16 Nm B : Tightening torque : 16 Nm</p> <p style="text-align: center; background-color: #cccccc;">Not sold in US</p>	<p>BUSHING OF THE MAIN ARM OF SUSP. SA</p>  <p>P/N : ARD368325556 SET OF 4 SCREWS FHC M6X8 INOX A2-70</p> <p>Tightening torque : 6 Nm</p> <hr/> <p>BUSHING OF THE MAIN ARM OF SUSP. SATELITE</p>  <p>P/N : ARD315028555 SAT-SET OF 4 SCREWS FOR ONDASPACE - 12.9</p> <p>Tightening torque : 16 Nm</p> <hr/> <p>BUSHING OF THE MAIN ARM OF SUSP. ACCESS</p>  <p>P/N : ARD368840555 SET OF 4 PREGLUED SCREWS FHC M6X12 - 10.9</p> <p>Tightening torque : 16 Nm</p> <hr/> <p>BUSHING OF THE MAIN ARM OF SUSP. LCA DF</p>  <p>P/N : ARD368840555 SET OF 4 PREGLUED SCREWS FHC M6X12 - 10.9</p> <p>Tightening torque : 16 Nm</p>
<p>ECL</p> <p>SUSP. PRC SUSP. PRX (Avant Sept. 2002)</p>  <p style="text-align: center;">$\varnothing 105$</p> <p>P/N : ARD367014555 SET OF 6 PREGLUED SCREWS CHC M6X12 - 10.9</p> <p>Tightening torque : 16 Nm</p>		
<p>TUB 130</p> <p>SUSPENSION SA SUSP. PRX (Après Sept. 2002)</p>  <p style="text-align: center;">$\varnothing 130$</p> <p>P/N : ARD367270555 SET OF 6 PREGLUED SCREWS CHC M6X20 -10.9</p> <p>Tightening torque : 16 Nm</p>		
<p>SATELITE</p> <p>AXE 1 : SUSPENSION SA AXE 1 : SUSP. PRX (Après Sept. 2002) AXE 2-3 : ARM SAT</p>  <p>A = P/N : ARD315027555 SET OF 6 PREGLUED SCREWS CHC M6X20 -10.9</p> <p>B = P/N : ARD315026555 SET OF 6 PREGLUED SCREWS CHC M6X25 - 10.9</p> <p>Tightening torque : 16 Nm</p>		

SAFETY SEGMENT :

Maquet recommends a preventive safety segment replacement every 6 years.
For the reference, please, consult the technical manual of your equipment.

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