

Operating instructions



DW 400

Operating instructions

kobold

DW 400

Before use

Please read all the information contained in these operating instructions carefully. They contain important details on the use, safety and maintenance of the lighting equipment. Keep these operating instructions in a safe place and pass them on to further users if necessary. Please observe these safety instructions.

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Important safety instructions

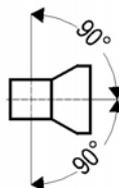


1. The lamp should only be used by qualified personnel.
2. Avoid incorrect use of any kind, and be particularly careful not to obstruct the natural circulation of air that keeps the lamp cool.
3. The lamp base and the accessory attachments may heat up to high temperatures. Please handle with care.
4. Use only intact connection cables. Position the cable so that it will not be tripped over or contact hot surfaces. If an extension is necessary, a cable with a current rating at least equal to that of the lamp should be used. Cables rated for less amperage than the appliance may overheat.
5. Let the fixture cool completely before putting away.
6. Units with noticeable damages or which have been dropped should not be started up. Contact a kobold service department. Service or repair work should always be carried out by a specialist.
7. Only original spare parts must be used to guarantee long-term mechanical and electrical operating safety. Incorrect reassembly can cause electric shock when the lamp is subsequently used.
8. Before the fixture is cleaned or serviced or while it is not in use, it must be completely disconnected from the mains supply. Disconnect the lamp from the ballast unit. Never pull on the cable itself: pull only on the plug housing.
9. Do not immerse, partly or completely, this lamp base in water or other liquids. The lamp base should not be splashed with water or other liquids or exposed to a continuous stream of water. A dangerous electric shock could be caused.
10. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.
11. HMI/MSR light emits levels of radiation similar to daylight. The UV-radiation safety glass is integrated into the reflector housing and softbox adapter attachment. The lamp should never be used without a reflector housing or softbox adapter attachment. Safety glasses must always be replaced, when they have cracks, scratches, or deformation. Only kobold safety glasses must be used (art. no. 713-0587).
12. When in use, always keep a sufficient distance to flammable materials.
13. Never switch on the fixture without lamp. Danger high voltage pulse!
14. The fixture should always be operated with kobold ballasts.

Attention: read before starting up



- Read and understand all instructions before using.
- The equipment must not be used by children. Close supervision is necessary when any fixture is used near children. Do not leave equipment unattended.
- For safety reasons, always disconnect the lamp base cable from the ballast unit before opening the lamp for any purpose (e.g. to replace the lamp).
- Because the unit emits a great deal of heat, the fixture must be located at a safe distance whenever it is facing towards flammable and/or heat sensitive surfaces or objects.
- A hot lamp must never be placed in contact with flammable materials.
- To prevent overheating, never operate the fixture with the barn doors completely or almost completely closed.
- The fixture is not suitable for use in explosion-hazard areas.
- Do not operate the fixture without a safety glass.
- Like natural daylight, HMI/MSR light contains a certain proportion of UV radiation. The safety glass reduces the UV content to safe levels for normal operating distances. When used at close operating distance, limit the exposure time of unprotected skin.
- A ballast unit is necessary to use the lamp. The ballast unit provides for the current supply to the lamp base.
- These fixtures conform to the protection class I, and for this reason may only be operated on a mains supply with kobold electronic ballast units of protection class I.
- Protect lamp heads and accessories from impact.
- This fixture is constructed according to the protection standard IP 54 and can be exposed to normal rain. Thereby, attention should be paid that the fixture is not inclined more than 90° to the horizontal axis (see diagram).



1. Start up

1.1 General

The lamp base without a reflector housing or softbox adapter does not provide UV protection. The safety glass is integrated into the reflector housing or softbox adapter and serves to protect equally against broken lamps as well as noxious UV-radiation. The lamp base may therefore never be used without a reflector housing or softbox adapter with an intact safety glass. To protect the DW 400 there is a lamp cut off switch on the glass and between the reflector housing/softbox adapter. Check periodically for proper function. The fixture is constructed according to the protection standard IP54 and can be exposed to normal rain or splash water.

Attention: When using the softbox adapter (bare bulb) with softboxes or lanterns, there is no weatherproof protection.

1.2 Starting up

1. Remove reflector housing (see. Chap.2.1).
2. Insert lamp into lamp base (see. Chap. 2.5). Mount Open Face reflector, PAR reflector or softbox adapter.
3. Connect lamp base cable to the lamp base and secure it by tightening the cap screw nut.
4. Connect electronic ballast unit to the earthed/grounded mains socket.
5. Set the power switch on the ballast unit to ON.
6. Press the ON/OFF button of electronic ballast unit or lamp base; the fixture is switched on and operational.
7. Press the ON/OFF button of electronic ballast unit or lamp base; the fixture is switched off.

Occasionally a lamp may fail to trigger; if this happens, switch the lamp or ballast unit OFF and then ON again.

Optimum colour temperature will be reached in about 2 – 3 minutes.

Always heat up with ballast dimmer set to full power.

Make sure the ventilation slots on the lamp base and the ballast unit are unobstructed.

1.3 Power regulation

When the lamp base is used with a kobold ballast unit, it is equipped with electronic output dimming. This dimming function allows light output to be reduced continuously down to about 60 %. Please note that depending on the type of lamp used, colour temperature may change with output. kobold ballast units are equipped with an electronic control of the operating temperature. It controls during the heating up process automatically on full power until the operating temperature is achieved.

1.4 Remote control (ON/OFF)

Remote control: If the lamp is switched off by an interruption of the mains voltage, it will be switched on again by reactivating the mains voltage.

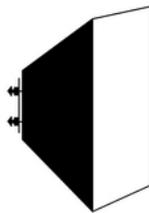
2. Operation of the lamp

2.1 Mounting and dismounting the reflector housings and softbox adapters

A reflector housing or softbox adapter is inserted with the indication at the top by introducing the 3 pins into the corresponding slots (8) and turning the reflector housing clockwise until the safety knob (11) snaps into the locking position. The reflector housing or softbox adapter is now securely mounted. For safety reasons always check that the reflector housing is well tightened.

By pulling the mechanism backwards (7), away from the reflector housing, the locking mechanism is loosened and the reflector housing or softbox adapter can be turned counter-clockwise to be removed.

Attention: When mounting the softbox adapter, the lamp must always be in the position: " " . That means the focusing knob (4) must be scrolled to the left to the stop position (see mark on the back of the fixture).



Make sure the ventilation slots are unobstructed. They should not be covered by the softbox, the circulation of air must be assured. The fixture must not be operated without an intact UV-safety glass cap. Only kobold UV-safety glass caps (art. no. 713-0587) must be utilised.

2.2 Mounting and dismounting the accessoires

4-leaf barn door: Unlock and flip up the moveable barn door catch (14) by pushing in the spring clip direction. The 4-leaf barn door (20) can now be inserted from above in the outer fixed groove of the two lower barn door catches (15). Lower the moveable barn door catch until it automatically engages and locks down. Rotate the barn door to ensure that it fits securely.

Filter, PAR lens, Fresnel lens: Unlock and flip up the moveable barn door catch (14) by pushing in the assigned direction. Select a PAR or Fresnel lens and insert from above in the inner fixed groove of the two lower barn door catches. Lower the moveable barn door catch until it automatically engages and locks down. To ensure that the barn door and the PAR fit securely rotate the 4-leaf barn door.

2.3 Focusing

Use the focusing knob (4) on the rear of the lamp base to adjust focus. Note the corresponding flood and spot symbols of the lamp base indicating the adjustment directions. Whilst using the lamp base with an Open Face or a PAR reflector with a mounted Fresnel lens, the complete focus range can be used.

Whilst using the lamp base with a PAR reflector with a mounted Fresnel lens, ensure that the position "Spot" is set. This means that the focusing knob (4) must be scrolled to the right until the stop position (see mark on the back of the fixture).

2.4 Inserting or replacing a lamp

Before replacing the lamp, the ballast unit must be switched off and the lamp base must be separated from the ballast unit. Remove the accessories from the lamp base incl. 4-leaf barn door (see Chap. 2.2). Unlock reflector housing and pull it out. Carefully insert the lamp into the ceramic socket, align the two pins with the holes in the socket and push it in all the way. Be careful not to tilt or jam the lamp while inserting it, and handle the lamp only by the base in order to keep the quartz glass free of fingerprints. Any fingerprints or other marks on the quartz glass must be immediately removed with a clean cloth moistened with solvent or alcohol. No warranty or replacement obligation applies to lamps that have been damaged by improper insertion. Before putting on the reflector housing or softbox adapter check that the UV-safety glass (16) is intact. Safety glasses which are scratched or otherwise damaged must always be replaced. Carefully reinsert the reflector housing or softbox adapter into the lamp base (see Chap. 2.2); push it gently and exert only minimal force (16).

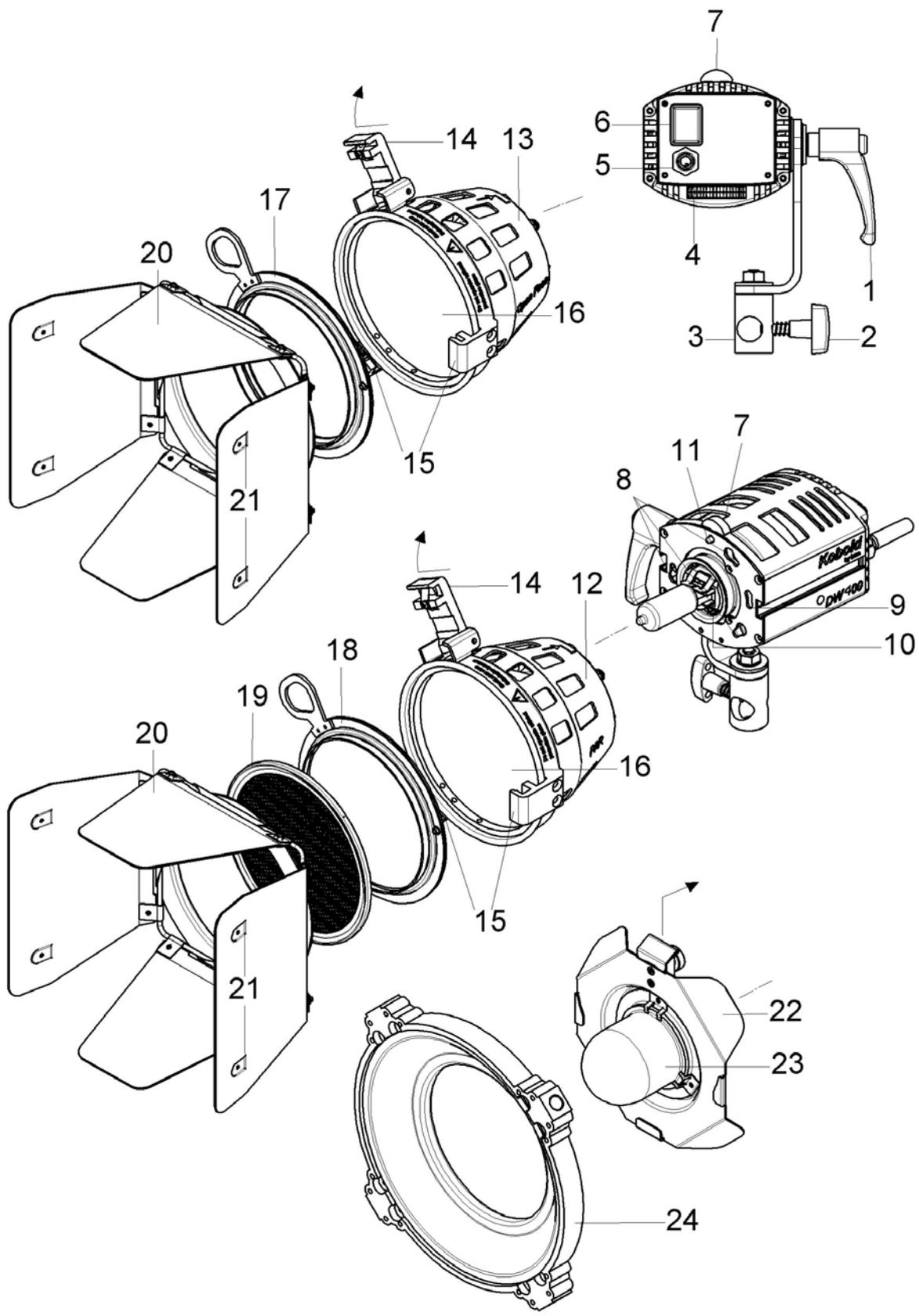
Attention: The UV-safety glass provides protection in the event of a lamp exploding, and from UV radiation. Never use the fixture without safety glass. Only kobold safety glasses must be used (art. no. 713-0587).

3. Controls

DW 400

Article no. 332-0145

- 1) Yoke locking handle
- 2) Clamp screw
- 3) Stand adapter 16 mm (5/8")
- 4) Focusing knob
- 5) Mains supply cable
- 6) ON/OFF switch
- 7) Bolt
- 8) Slots for locking knob
- 9) Slot for safety switch
- 10) Lamp socket
- 11) Safety knob
- 12) PAR reflector
- 13) Open Face reflector
- 14) Moveable barn door catch
- 15) Fixed barn door catches
- 16) UV-safety glass
- 17) Conversion filter / diffusion filter
- 18) PAR lenses / Fresnel lenses
- 19) Scrims
- 20) 4-leaf barn door
- 21) Spring clips for gel filter
- 22) Adapter for softboxes
- 23) UV-safety glass cap
- 24) Adapter ring "Speed Ring"



4. Technical data

Output	400 W
Lamp holder	GZZ 9.5
Focus range (with Open Face reflector)	15° - 45°
Light output with Open Face reflector (3 m / 9.8 ft.)	Spot 19200 lux / 1784 fc Flood 3400 lux / 316 fc
Light output with PAR reflector without PAR lens 5° (3 m / 9.8 ft.)	133000 lux / 12356 fc
Light output with PAR reflector with PAR lens NSP 8° (3 m / 9.8 ft.)	66000 lux / 6132 fc
Light output with PAR reflector with PAR lens MFL 12° x 28° (3 m / 9.8 ft.)	15500 lux / 1440 fc
Light output with PAR reflector with PAR lens WFL 20° x 50° (3 m / 9.8 ft.)	5800 lux / 539 fc
Light output with PAR reflector with PAR lens VWFL 55° (3 m / 9.8 ft.)	2280 lux / 212 fc
Light output with PAR reflector with frosted Fresnel lens 38° (3 m / 9.8 ft.)	Spot 2200 lux / 204 fc Flood 1040 lux / 97 fc
Dimensions L x W x H	139 x 142 x 167 mm 5.4" x 5.6" x 6.6"
Weight without reflector	1.3 kg / 3 lbs
Cable length	6 m / 19.5 ft
Stand connection	16 mm / 5/8"
Safety class	I
Protection classification IP (with mounted reflector)	IP 54
Protection class	EN60529, EN60598, EN61347
CE Directives	2006/95EEC, 2004/108EEC, 96EEC, 95/EEC

Subject to change in the interest of product enhancement.

5. Order numbers for accessories and spare parts

Lamp base DW 400	art. no. 332-0145
Lamp 400 W	art. no. 633-5456
Open Face reflector for DW 400	art. no. 741-0597
Open Face reflector for DW 400 with long catches (USA)	art. no. 741-0598
PAR reflector	art. no. 741-0599
UV-safety glass (alternative to Open Face and PAR reflector)	art. no. 713-0587
4-leaf barn door, rotatable with filter insertion	art. no. 741-0754
Diffusion filter, with frame	art. no. 713-0746
Conversion filter, 3200 K	art. no. 713-0747
Light "schott ring"	art. no. 744-0167
PAR lenses set (4 pces.) for PAR reflector	art. no. 713-0740
PAR lens NSP	art. no. 713-0741
PAR lens MFL	art. no. 713-0742
PAR lens WFL	art. no. 713-0743
PAR lens VWFL	art. no. 713-0744
Fresnel lens for PAR Reflector	art. no. 713-0745
Scrim single half	art. no. 744-0192
Scrim double half	art. no. 744-0193
Scrim single full	art. no. 744-0190
Scrim double full	art. no. 744-0191
Adapter for softboxes and lanterns etc. (bare bulb)	art. no. 744-0299
Softbox adapter "Speed Ring" 129 mm / 5"	art. no. 744-0305
Lamp base extension cable, 5 m / 16.4 ft.	art. no. 744-0358
Lamp base extension cable, 10 m / 32.8 ft.	art. no. 742-0631

6. Environmental protection information



When no longer in use, this product may not be deposited in the normal household waste but should be brought to a collection point for the recycling of electrical and electronic appliances.

By re-use, recycling or another form of using old appliances you are making an important contribution towards the protection of the environment. Please ask your local authorities for the appropriate disposal point.

**KONFORMITAETSERKLAERUNG
DECLARATION OF CONFORMITY
DECLARATION DE CONFORMITE**

Wir / We / Nous :

Bron Elektronik AG, Hagmattstrasse 7, CH-4123 Allschwil, Schweiz

erklären in alleiniger Verantwortung, dass das Produkt
declare under our sole responsibility that the product
déclarons sous notre seule responsabilité que le produit

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auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder
normativen Dokument(en) übereinstimmt:
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other normative document(s):
*auquel se réfère cette déclaration est conforme à la (aux) norme(s) ou autre(s)
document(s) normatif(s):*

**EN 60926
EN 60922**

**EN 55011
EN 60598**

EN 60529

gemäss den Bestimmungen der Richtlinie:
following the provision of the Directive:
conformément aux dispositions de la Directive:

2006/95/ECC 2004/108/EEC 96/EEC 95/EEC

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