AS500FF Xenon Worklamp

Instructions

Please retain for future reference

Hella Part No.

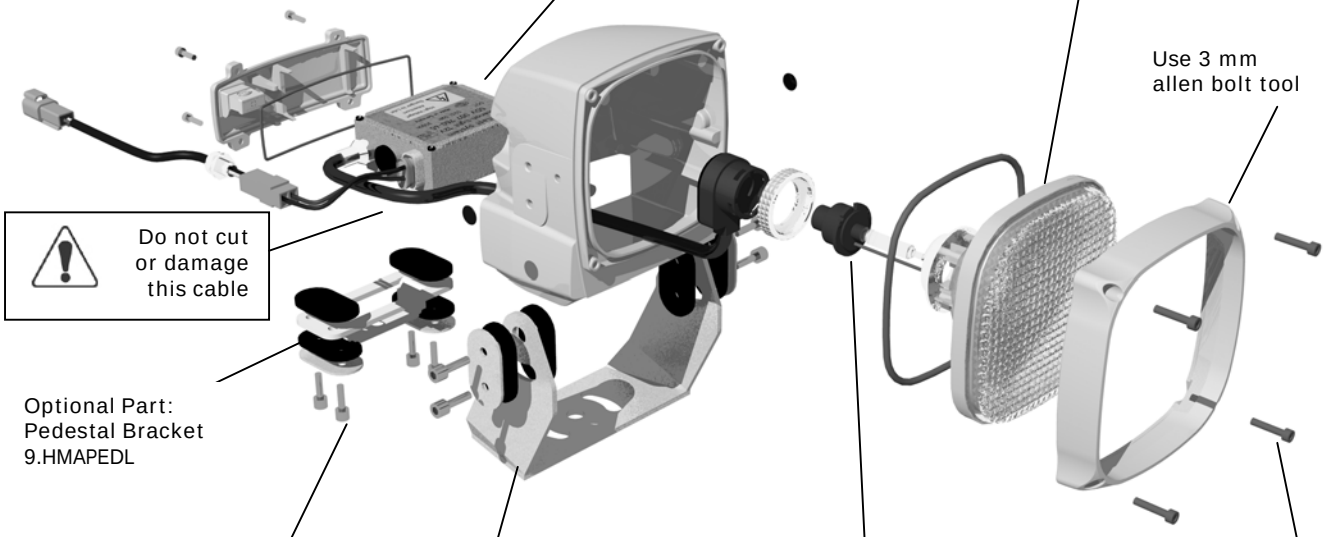
HMAKX35WBD
- 12 V Wide Beam Deutsch Plug -
HMAKX35NBD
- 12 V Narrow Beam Deutsch Plug -
HMAKX35WBA
- 12 V Wide Beam AMP Plug -
HMAKX35NBA
- 12 V Narrow Beam AMP Plug -
HMADX35WBD
- 24 V Wide Beam Deutsch Plug -
HMADX35NBD
- 24 V Narrow Beam Deutsch Plug -
HMADX35WBA
- 24 V Wide Beam AMP Plug -
HMADX35NBA
- 24 V Narrow Beam AMP Plug -

Wire Harness Kit:
9.HMAWHKD

Ballast Spare Part:
9.HMASXB12 - 12V
9.HMASXB24 - 24V

Optic Spare Part:
9.HMASXWB - Insert Wide Optic
9.HMASXNB - Insert Narrow Optic

Use 3 mm
allen bolt tool



Do not cut
or damage
this cable

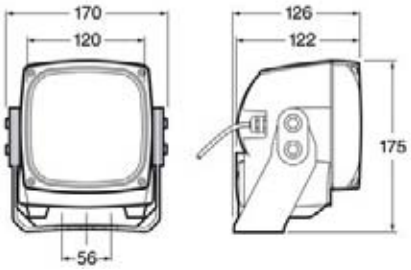
Optional Part:
Pedestal Bracket
9.HMAPEDL

Use 5mm allen
bolt tool
Torque 2.5 – 4 Nm

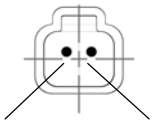
Trunnion Bracket
Spare Part
9.HMATRUN

Globe Spare Part:
XN4000

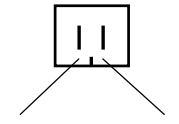
Do not over
tighten lens
bolts
Torque 2 Nm



DEUTSCH PLUG
Pin Configuration



AMP PLUG
Pin Configuration



Images viewed from front.

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Technical Data Ballast to combine with Xenon HID bulb D2S/35W		
Specifications	12 VDC	24 VDC
Nominal Voltage	13.2 V	26.4 V
Lower switch-on	9 V	18 V
Operating voltage range	9 V to 16 V	18 V to 32 V
Below this voltage the operating time is limited	< 9V for 10min at T_G < 85°C	< 12V for 10min at T_G < 85°C
Power consumption	c. 42 W	c. 41 W
Peak Current	20 A	10 A
Activation current	≤ 17 A for max. 10 s	≤ 8.5 A for max. 10 s
Nominal current	3.18 A	1.59 A
Pre-connected fuse	15 A (16 A)	7.5 A
Power output	35W +/- 1W at T_G 25° C	
No-load ignition voltage	c. 20kV (max. 23 kV)	
Lamp voltage range	67V to 112V	
Operating temperature range	-40°C to - +50°C	
Mass	2.6 kg	
Lamp Type	D2S	
Protection Code (with suitable plug)	IP6K7	
Shock & Vibration Rating	Ballast 200g Housing 200g Lamp 30g	

When operating the lamp, please observe the following:

- Do not operate in small, closed spaces.
- Distance between lens and combustible material at least 0.5 metre.
- Do not look directly into the bright light

Warning! When the lamp is switched on and the lens is hot, do not clean with liquid. Danger of Breakage.

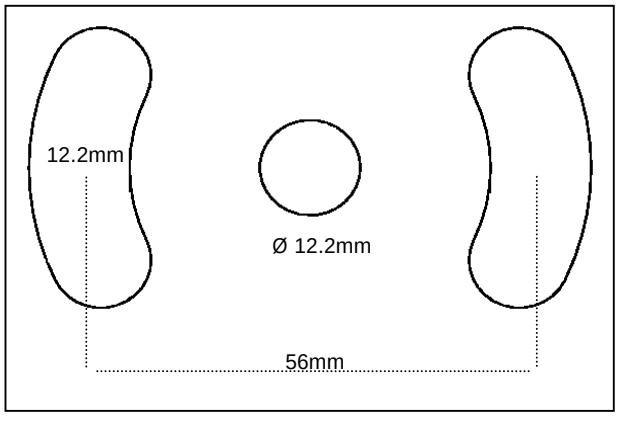
Connection of ballast to power supply:

- The ballast generates high voltage. Do not touch the connection lead to the xenon bulb or other parts of the ballast when turning the power on.
- The ballast is fully encapsulated and therefore has very good humidity resistance characteristics. However, do not expose ballast to water, humidity or condensation.
- Always use the ballast in combination with the D2S xenon-bulb.
- Adhere to the maximum temperature requirements of the ballast.
- All power supply and charging systems must adhere to the voltage limits specified. A battery or accumulator must be connected in series with the ballast input or +24V.
- Use the wiring harness supplied for electrical connection.
- A 10-amp fuse (slow blow type) at 24V must be added in series with the ballast input, or Hella circuit breaker.
- Cables of 5mm² or larger are required for each lamp to assure proper starting characteristics. The electrical connection between the ballast and the battery must not have an interior resistance exceeding 150 mOhms (12V) or 300 mOhms (24V).
- Do not start more than 3 ballasts at once. After 20 seconds additional 3 ballasts can be started.
- The ballast is equipped with a “Reverse polarity protection”, but will operate at correct connection only.
- As this product converts frequency, it can be a source of electrical noise.

Exchange of the D2S bulb

- Always switch off the worklamp ballast before exchanging the D2S bulb and disconnect from the power supply.
- Allow the xenon-bulb to cool off.
- The glass body of the xenon-bulb is filled with various gasses and metal vapours under pressure (danger of splintering).
- Wear safety goggles and gloves when exchanging xenon-bulb.
- Dispose of used xenon bulbs as hazardous waste.
- Always use the ballast in combination with the D2S bulb, which is placed inside the closed worklamp.
- Never touch the glass of the xenon-bulb, touch the xenon-bulb at its base only. Use a clean cloth and alcohol to remove and fingerprints from the glass bulb carefully.
- Connect the D2S bulb securely in the connector. Incomplete connection of the D2S bulb can result in damage to the product or other equipment, or electric shock.
- The ballast operation is stopped within 1 second if the D2S bulb is not connected properly.
- Hella shall be absolved from all responsibility for any modifications performed on the luminaire.
- Use only certified original equipment for replacement purposes.

Fixing Centres Template (Actual Size)



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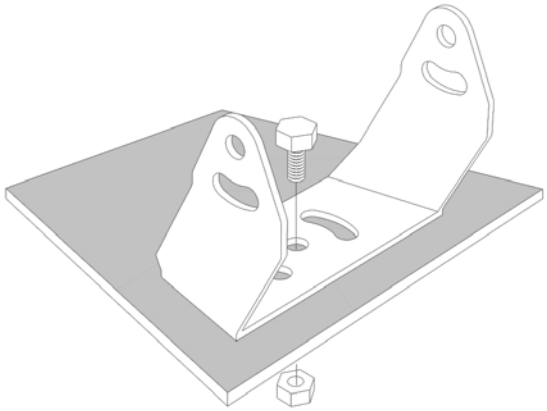
Typical Mounting Procedure

The worklamp is suitable for upright or pendant mounting. In case of pendant mounting please open the lamp and assemble the reflector unit turned 180° (see exchange of the D2S bulb)

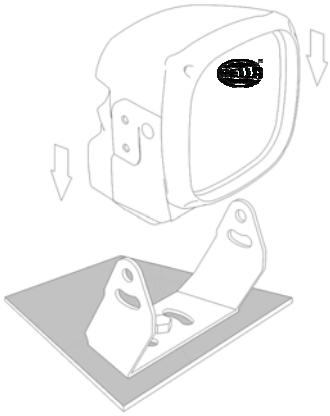
Take care of the correct lens position (“Top” and Hella logo pointing upwards).

1



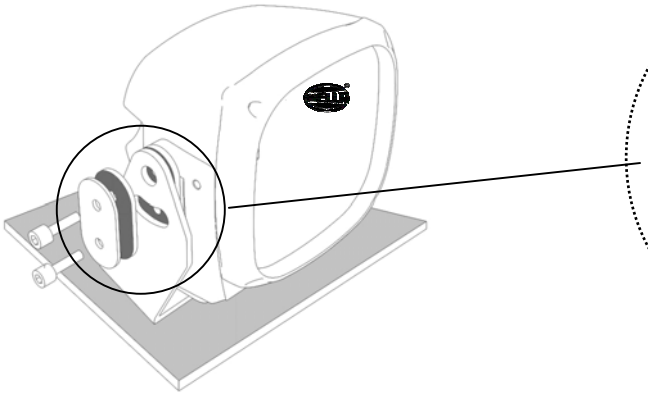
Position AS 500 bracket on to desired mounting surface and fasten bolts

2

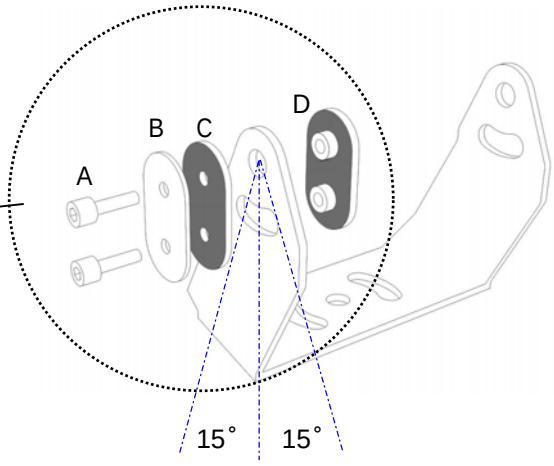


Place lamp into bracket and adjust aiming angle

3

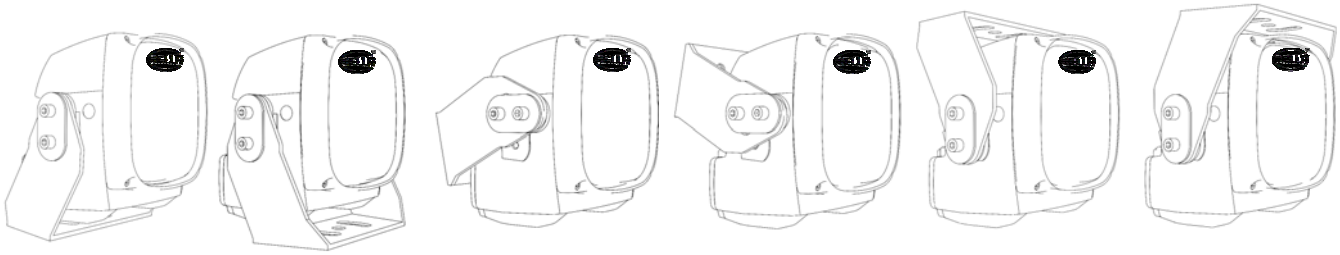


Once desired aiming angle is achieved fasten into place, tighten all bolts making sure the order of the bracket system is followed as per diagram to ensure no metal-to-metal contact.



Plug in and power

Trunnion Bracket Positions



Use all the parts supplied with the trunnion bracket to ensure correct operation

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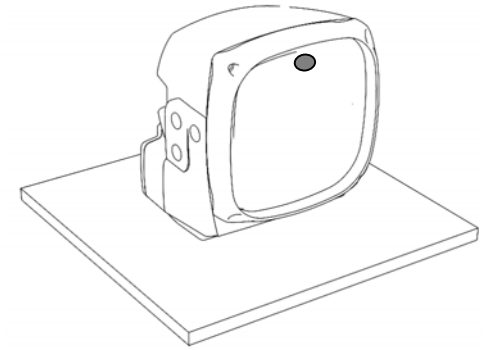
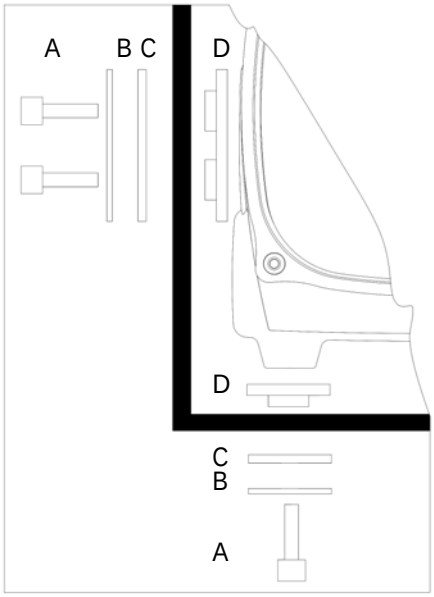
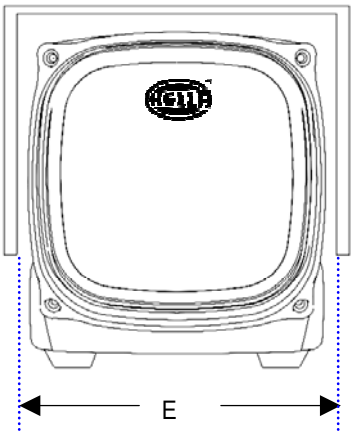
Direct Mounting Procedure



Direct mounting to a surface or into a housing is possible using the side or back mounting holes positioned on the luminaire.

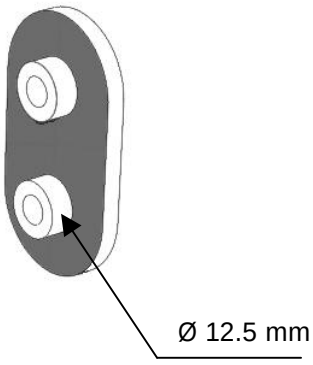
Use all the parts supplied with the trunnion bracket to ensure correct operation

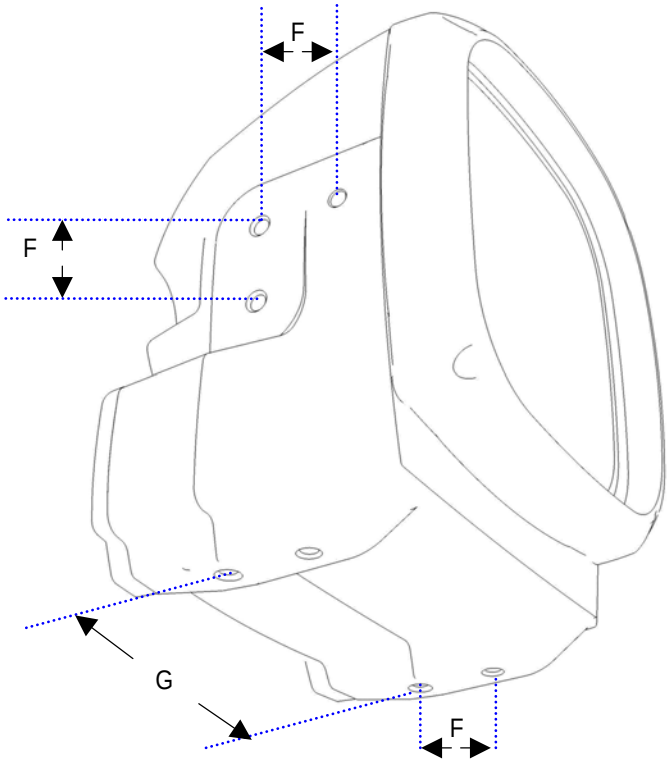




E = 146mm

Direct Mounting Procedure





F = 25 mm (FIXING HOLE CENTRES)
G = 100 mm (FIXING HOLE CENTRES)

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