JYY12-2 LED Machine Work Light

E27 Ceramic Socket - Flexible Gooseneck Work Lamp

User Manual

Model JYY12-2 - 5 W / AC 110-220 V, DC 24 V, DC 36 V

500 mm gooseneck - dia. 115 x 139 mm iron shade - square plastic base

Kemotronics Industrial Lighting

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This manual covers the JYY12-2 machine work light in its three voltage versions (AC 110-220 V, DC 24 V, DC 36 V) and in the lamp-body-only version supplied without a bulb. The lamp is fitted with an E27 ceramic holder, so any standard 5 W E27 LED bulb can be used.

Read section 8 (Safety Warnings) before installing, wiring or replacing the bulb.

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1. PRODUCT OVERVIEW

The JYY12-2 is a compact work light for machine tools - lathes, milling machines, drilling machines, grinders, saws and CNC machining centres. The light head is carried on a 500 mm flexible metal gooseneck, so the beam can be bent to any angle and stays where it is set while the machine runs.

The shade is a thickened iron shell, dia. 115 mm and 139 mm high, with a white reflective inner wall that spreads the light evenly over the work area instead of throwing a hard spot. Vents in the shade carry the heat away, so the lamp can stay on through a full shift.

The holder is E27 ceramic. Ceramic does not char or soften like a plastic holder, it keeps the contacts firm and it takes the heat of the bulb, which is what makes a work light last in a machine shop. Because the light source is an ordinary E27 bulb, it can be replaced from any local shop - the lamp itself does not have to be thrown away when the bulb reaches the end of its life.

A push-button switch on the base turns the lamp on and off with one press, even with oily or gloved hands. The square plastic base is made to be screwed to the side of the machine: the two holes are on a 46.5 x 46.5 mm pitch, so the lamp fits most existing machine tappings and brackets.

Typical users: machine operators, tool rooms, maintenance and repair workshops, machine builders and assembly benches.

2. TECHNICAL SPECIFICATIONS

Model	JYY12-2 (machine work light, E27 bulb)
Power	5 W LED bulb. Lamp body only (no bulb) also supplied - the bulb is then chosen by the user.
Voltage	AC 110-220 V or DC 24 V or DC 36 V. Three separate versions - they are NOT interchangeable.
Light source	Standard E27 LED bulb, 5 W. Any E27 bulb of the same or lower power can be used.
Holder	E27 ceramic lamp holder (heat resistant, firm contacts)
Shade	Thickened iron shade, dia. 115 mm x 139 mm, black outside, white reflective inner wall, vented for heat dissipation
Arm	500 mm flexible metal gooseneck, dia. 13 mm, 360 degree bending
Cable and plug	AC 110-220 V version: 3-core cable with plug. DC 24 V and DC 36 V versions: 2-core cable with bare cores and NO plug.
Base	Square plastic base, 47 x 67 mm, 2 mounting holes dia. 6.5 mm on a 46.5 x 46.5 mm pitch, side mounting
Switch	Push-button switch on the base
Overall size	Approx. 700 mm high with the gooseneck straight (base + 500 mm arm + 139 mm shade)
Material	Iron shade, metal gooseneck, ceramic holder, engineering plastic base
Protection	Vented shade for heat dissipation - splash resistant to normal workshop use, NOT waterproof (see section 8)
Note	Dimensions are measured manually, tolerance 1-3 mm. Confirm the voltage version and whether a bulb is included when ordering.

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3. PACKAGE CONTENTS

- 1 x JYY12-2 machine work light with push-button switch and power cable
- 1 x 5 W E27 LED bulb (with-bulb versions only)
- Mounting screws are NOT included - use the screws or the existing tappings on your machine

State the voltage version (AC 110-220 V / DC 24 V / DC 36 V) and whether you need the bulb when ordering. A DC version connected to mains, or an AC version connected to a DC supply, will be destroyed.

4. INSTALLATION INSTRUCTIONS

Step 1 - Check the voltage version: read the label on the base or on the cable and make sure the lamp is the AC 110-220 V, the DC 24 V or the DC 36 V version, and that it matches your machine supply. The versions are not interchangeable.

Step 2 - Choose the mounting position: pick a flat surface on the side of the machine, clear of moving parts, hot chips and the coolant jet. The 500 mm arm should reach the work area without being stretched straight.

Step 3 - Fix the base: drill two dia. 6.5 mm holes on a 46.5 x 46.5 mm pitch (or use existing tappings), place the base and tighten both screws evenly. The base must sit flat - a twisted base makes the gooseneck lean.

Step 4 - Fit the bulb and connect the cable: screw the E27 bulb in by hand until it seats - do not over-tighten. Isolate the machine supply, then plug the lamp in (AC version) or connect the bare cable cores to the machine DC supply observing the polarity (DC version, no plug is supplied). Keep the cable clear of moving parts and sharp edges.

Step 5 - Aim and test: switch on with the push button, then bend the gooseneck by hand to bring the light onto the work area. Bend it gradually along the whole arm rather than forcing one point, and check that the beam falls on the work and not into the operator's eyes.

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5. WIRING

NOT APPLICABLE - the switch and the power cable are wired to the lamp at the factory. No internal wiring is required from the user.

Only the connection to the machine supply has to be made. Check the marking on the cable of your lamp before connecting, and isolate the machine from the mains while doing it.

Version	Cable	Connection
AC 110-220 V	Live + Neutral + Earth, plug fitted	To the mains socket through the fitted plug. The earth core must be connected.
DC 24 V	Positive + Negative, bare cores, no plug	To the machine 24 V DC supply, observe polarity. Never connect to mains.
DC 36 V	Positive + Negative, bare cores, no plug	To the machine 36 V DC supply, observe polarity. Never connect to mains.

The DC 24 V and DC 36 V versions are supplied WITHOUT a plug, with bare cable cores. Have the connection to the machine DC supply made by a qualified electrician and keep the polarity correct.

6. COLOUR STATUS

NOT APPLICABLE.

The JYY12-2 is a work light, not a signal light. It gives a white working beam only and has no colour-status function.

7. MAINTENANCE AND CARE

- Switch off and let the lamp cool before touching the shade or changing the bulb.
- Wipe the shade and the bulb with a soft dry cloth; in oily shops use a slightly damp cloth and dry afterwards.
- Do not use solvents, petrol, thinners or abrasive pads on the shade or the bulb.
- Check the base screws, the switch and the cable entry every 6 months and re-tighten if the lamp has moved.
- Do not over-bend the gooseneck at one point; this shortens the life of the arm.
- Replace the bulb with an E27 LED bulb of 5 W. Do not fit a bulb of higher power than the rating.
- Keep the cable clear of moving machine parts, hot chips and sharp edges.
- Store spare lamps and bulbs in a dry place, out of direct sunlight.

8. SAFETY WARNINGS

- ALWAYS disconnect the machine from the mains before installing, wiring, cleaning or changing the bulb.
- Never connect the DC 24 V or DC 36 V lamp to mains voltage, and never connect the AC version to a DC supply. Wrong voltage destroys the lamp and is not covered by the warranty.
- Do not look directly at the lit bulb, and do not aim the beam at other people. Set the light so the beam falls on the work.
- The shade is vented for heat dissipation and is splash resistant to normal workshop use, but it is NOT waterproof. Do not spray coolant or water directly into the shade and never immerse the lamp.

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- Switch off before changing the bulb - a hot bulb can burn the hand and break when unscrewed.
- The gooseneck is a flexible arm, not a handle or a lifting point. Do not hang loads on it and do not use it to pull the machine.
- Keep the lamp and its cable away from hot surfaces, moving parts and sharp edges.
- Where local regulations require it, installation must be carried out by a qualified electrician.

9. TROUBLESHOOTING

Problem	Possible cause	Solution
Lamp does not light	No supply, wrong voltage version, bulb loose or burnt out	Check the supply and the model voltage, switch off and re-seat or replace the bulb
Bulb flickers	Bulb not fully screwed in, loose cable entry, unstable supply	Switch off, screw the bulb in fully, check the cable and the supply
Light is dim	Dirty bulb or shade, low supply voltage, old bulb	Clean the shade and the bulb, check the supply voltage, fit a new 5 W LED bulb
Bulb blows often	Higher power bulb fitted, poor ventilation, high supply voltage	Fit a 5 W E27 LED bulb, clean the vents, check the supply voltage
Switch does not click or feels loose	Worn switch after long service	Stop using the lamp and contact the seller for a replacement switch or lamp
Gooseneck droops	Arm over-bent at one point or overloaded	Re-shape the arm evenly; replace the lamp if the arm is permanently bent
Base works loose	Vibration, screws not tightened, uneven surface	Re-tighten both screws and check that the base sits flat on the machine

10. WARRANTY POLICY

1 year warranty from the date of delivery, covering manufacturing defects: holder and switch failure under the correct voltage, a broken gooseneck in normal use, and defects in the shade and the base.

Not covered: damage caused by wrong voltage, a bulb of higher power than the rating, immersion or direct coolant spray, over-bending of the arm, mechanical impact, unauthorised repair or dismantling of the lamp. The E27 bulb is a consumable and is not covered after it has been used.

11. AFTER-SALES SERVICE

Contact	Jude
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Please quote model JYY12-2, the voltage version of your lamp (for example 5 W / DC 24 V) and your order number when contacting us.

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