

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS


1.1. ELECTRICAL SAFETY

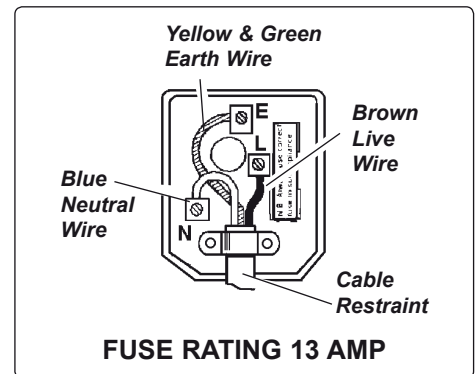
WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer.

You must also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
- 1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.
- 1.1.7. **DO NOT** pull or carry the appliance by the power cable.
- 1.1.8. **DO NOT** pull the plug from the socket by the cable.
- 1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When an ASTA/BS approved UK 3 pin plug is damaged, cut the cable just above the plug and **dispose of the plug safely**. Fit a new plug according to the following instructions (UK only).
 - a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**
 - b) **Connect the BROWN live wire to the live terminal 'L'.**
 - c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**
 - d) **After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.**

Double insulated products, which are always marked with this symbol , are fitted with live (brown) and neutral (blue) wires only. To rewire, connect the wires as indicated above - **DO NOT** connect either wire to the earth terminal.
- 1.1.10. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 2.5m².

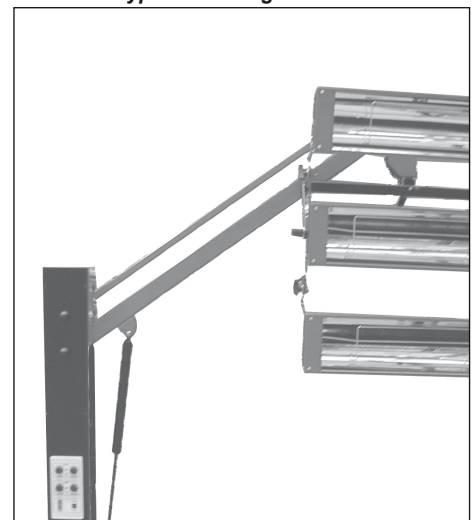


1.2. GENERAL SAFETY INSTRUCTIONS

WARNING! If a fuse blows, identify and rectify the fault, ensure it is replaced with a fuse of identical type and rating.

WARNING! Ensure there is nobody in front of the lamp when it is switched on.

- ✓ Disconnect the panel dryer from the power supply before servicing, changing accessories, or performing any maintenance.
- ✓ Ensure that the panel dryer is in good condition before use. If in any doubt do not use the unit and contact an electrician.
- ✓ Familiarise yourself with the application and limitations of the panel dryer.
- ✓ Check that lamp guards are in place, undamaged and firmly attached.
- ✓ Keep tools and other items away from the panel dryer when it is in use.
- ✓ Keep the work area clean and clear of unnecessary items.
- ✓ Remember that the lamp panel will get hot, allow to cool after use.
- ✓ Maintain the panel dryer in good condition. Use authorised agent for servicing.
- ✓ Keep the dryer clean, but **DO NOT** use solvents.
- ✓ Use only genuine parts and accessories. *Unauthorised parts and accessories may be dangerous and will invalidate your warranty.*
- x **DO NOT** use this product to perform a task for which it has not been designed.
- x **DO NOT** use the panel dryer outdoors, or in damp, or wet locations, and **DO NOT** operate within the vicinity of flammable liquids, gases or solids.
- WARNING!** *Never use in explosive situations.*
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ When not in use, store the panel dryer carefully in a safe, dry, childproof location.



2. INTRODUCTION

The IR3000 has three 1kW high output short wave lamps, fitted into three individual cassettes. Lamps emit short wave infrared heat ideal for optimizing drying of water-borne paints. This flexible system allows each cassette to be adjusted and locked into position around the contours of the vehicle body, ensuring maximum area coverage.

Height adjustment is made using the high performance locking gas strut, offering a near weightless movement to the cassette support arm.

Product features include

- 500mm 1kW High output short wave tubes.
- Long lamp life with an average of 6000hours.
- Specially designed electronic power and time control, offering 0 - 100% heat instantly through twin 30 minute timers on both the Flash and Bake settings.
- Robust steel constructed stable frame, fitted with rear wheel locking castors.
- Maintenance free cassettes with no fan or filter changes.
- Easy height adjustment by locking gas strut.
- Individually switched cassettes.
- Horizontal or vertical cassette operation.

3. ASSEMBLY

3.1 Assemble unit (Fig.1).

- 3.1.1 Unpack U shape base (A) place on floor and lock rear wheels.
- 3.1.2 Unpack main upright (B) remove nuts and washers from the base of the upright. **Caution! DO NOT remove safety strap.**
- 3.1.3 Place protruding bolts on upright into pre-drilled holes in base. Lightly hold in place with washers and nuts. Cut and remove safety strap, tighten nuts and secure being careful not to touch the gas strut handle.
- 3.1.4 Raise support arm (D) carefully using handle (C) on gas strut until the arm is horizontal to main upright. Ensure support arm is being held whilst being raised.
- 3.1.5 Unpack cassette module (E) and remove locking handle (F) and special washers.
- 3.1.6 Place star washer onto protruding cassette bolt (G), then fit bolt into hole on swivel head (H). Then place the star washer, plain washer and secure with the handle.
- 3.1.7 Plug cassette cables into socket (J).
- 3.1.8 The unit may now be operated by pushing the handle (C) on the lockable gas strut while pulling down or pushing up the support arm (D) to the desired position.
- 3.1.9 IR3000 is **not** supplied with fitted a plug. There are three options:
 - 230V 13A UK BS approved plug
 - Blue Industrial IP44 2pin + Earth plug
 - Have the unit hard-wired.

Important: If in any doubt, contact a qualified electrician.

3.2 Lamp Replacement (Fig.2). (The IR3000 is supplied with the lamps fitted, follow the procedure below when replacement lamps are required)

- 3.2.1 Ensure the power supply is disconnected. Remove the two screws (17) from one end reflector (2), this will release the guard (3) and expose one of the lamp terminal end posts (18).
- 3.2.2 Now remove the other end reflector (2) exposing the other lamp terminal (18).
- 3.2.3 Release the nuts (12) on the exposed terminal end posts just enough to allow the fork terminals of the lamp leads to be pushed under the washers (13).
- 3.2.4 Carefully remove the lamp (19) from its packing, holding it by the porcelain end caps only, taking care not to handle the quartz glass.
- 3.2.5 Carefully insert the end caps of the lamp under the spring retaining clips (7 & 8) of the heater. The fork terminals on each end of the lamp should now be inserted under the washer(13) of the lamp end posts and nuts (12) tightened to make a good connection.
- 3.2.6 The lamp leads should then be tucked away around the space at each end of the heater.
- 3.2.7 Now replace the end reflectors (2) and guard (3) to complete the assembly.

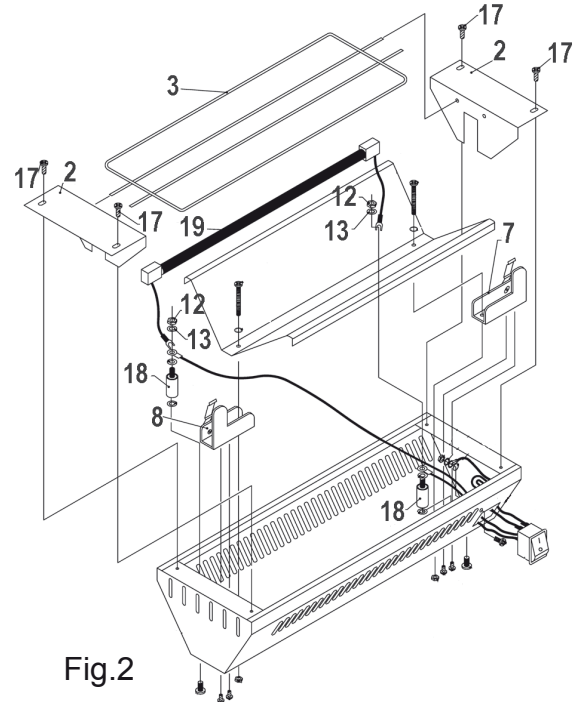
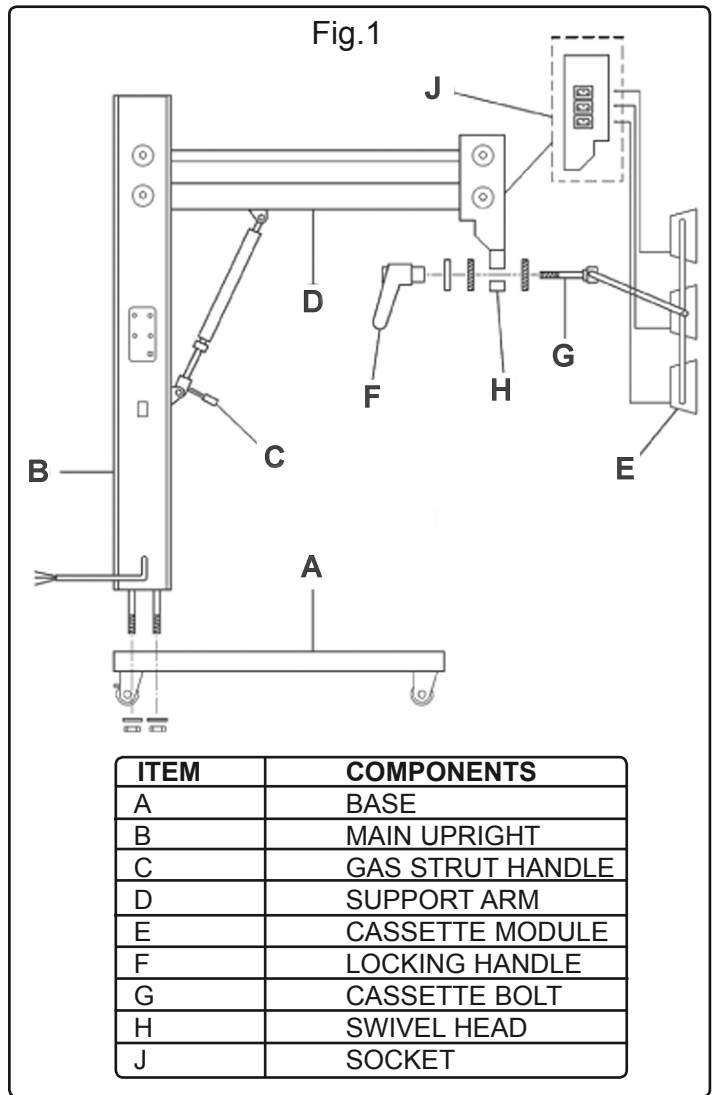
4. OPERATION

Note: The IR lamps are fragile and therefore it is important that the IR3000 is not subjected to any unnecessary shocks or vibration and is not moved when the lamps are on.

WARNING! Ensure that you read, understand and apply the safety instructions in Section 1 before using the panel dryer.

Your IR3000 Panel Dryer can be used successfully on Filler, Primer and Finish Coats **BEFORE USE:** Check our Paint Data Guide for appropriate drying times. If applicable we recommend you contact your own paint supplier with regard to short wave infrared drying of paints and colours not listed in our guide.

- 4.1. Move the IR3000 into position, approximately 500mm (20 inches) from the area to be heated. Adjust the cassette heads around the contours of the repaired area and lock into position.
- 4.2. Switch on main isolator, set FLASH and BAKE controls to desired time and temperature settings. The IR3000 incorporates an electronic system which allows fully variable heat control on both the FLASH and BAKE cycle.



4.3. When set, push GREEN START/STANDBY button to begin drying. Once activated a flashing red light will denote the setting in use. The system will automatically switch from flash to bake and continue until cycle has finished. The electronic control has a one minute minimum built into the flash setting, as we would recommend a short period of flash at about half the power for most jobs. This operation will assist in easing any solvents from the work and avoid such problems as skinning or popping.

4.4. Each cassette head has a built-in on/off switch for total flexibility, allowing the operator to control heat as required.

NOTE: If any cassette fails to operate on any new cycle, individual switches should be checked as they may have been left in the off position.

WE RECOMMEND A TEST PANEL IS USED FOR INITIAL OPERATION TO ALLOW THE OPERATOR TO FAMILIARISE THEMSELVES WITH THE SYSTEM.

GENERAL APPLICATIONS

FILLER: Full power for about 5 minutes will achieve a hard sandable finish.

ETCH PRIMER: Full power for approx. 5 minutes.

PRIMER: For normal build of two coats use full power for about 8 min.

HIGH BUILD PRIMER: For a normal minimum of three coats we suggest 5 min FLASH then full power for a minimum of 10 min.

TOP COATS: Top coats vary depending on the paint finish and colour, dark colours tend to heat rapidly and should always be used with FLASH at just under half power - an average cure time is around 12min.

REFER TO THE SEALEY PAINT DATA GUIDE FOR FULL INFORMATION.

SEALEY PAINT DATA GUIDE

PAINT TYPE	CODE No	COATS	FLASH TIME		TOTAL
			50% HEAT	100% HEAT	
DUPONT PAINT					
WATERBOURNE PRIMER SURFACE	210S	2-3		10 MINUTES	10 MINUTES
2K WATER	275S	2-3	5 MINUTES	10 MINUTES	15 MINUTES
VELASEAL WPS PRIMER	2120S	1	5 MINUTES		5 MINUTES
	2125S	1	5 MINUTES		5 MINUTES
	2140S	1	5 MINUTES		5 MINUTES
URO PRIMER FILLER	1120S	2-4	3 MINUTES	8 MINUTES	11 MINUTES
	1140S	2-4	3 MINUTES	8 MINUTES	11 MINUTES
PRIME N SEAL PRIMER SEALER	2600S	1-2	3 MINUTES	8 MINUTES	11 MINUTES
	2601 S	1-2	3 MINUTES	8 MINUTES	11 MINUTES
	2640S	1-2	3 MINUTES	8 MINUTES	11 MINUTES
CHROMACLEAR GLAMOUR	7800S	2	3 MINUTES	9 MINUTES	12 MINUTES

	50%HEAT		100%HEAT	
SIKKENS				
POLYKIT			4 MINUTES	4 MINUTES
POLYSTOP			6 MINUTES	6 MINUTES
WASHFILLER 580/WASHPRIMER EM			5 MINUTES	5 MINUTES
PRIMER SURFACER			4 MINUTES	6 MINUTES
AC-FILLER 3+1			2 MINUTES	4 MINUTES
AUTOCLEAR MS SYSTEM			2 MINUTES	5 MINUTES
AUTOCRYL FILLER 31 10			3 MINUTES	6 MINUTES

R-M	50%HEAT		100%HEAT	
RM STOP GLASSFIBER			10 MINUTES	10 MINUTES
RM STOP FIN			4 MINUTES	4 MINUTES
RM STOP EXTRA FIN			4 MINUTES	4 MINUTES
RM STOP ZINC			4 MINUTES	4 MINUTES
RM STOP ALU			4 MINUTES	4 MINUTES
RM STOP FILLER			4 MINUTES	4 MINUTES
MAXIFILL610			5 MINUTES	20 MINUTES
MAXIFILL611			4 MINUTES	15 MINUTES
MAXIFILL612			3 MINUTES	10 MINUTES
RM FAST FILLER 51 2			3 MINUTES	8 MINUTES
SOLO DE DIAMONT			2 MINUTES	10 MINUTES
SOLO + SOLO FLASH			3 MINUTES	5 MINUTES
DIAMOTOP			3 MINUTES	10 MINUTES
STARTOP HS			3 MINUTES	10 MINUTES
SOLO BLENDING CLEAR			3 MINUTES	10 MINUTES
SOLO BLENDING CLEAR (FOR POLISHING)				10 MINUTES

STANDOX	50%HEAT		100%HEAT	
TOP STOPPER			3 MINUTES	3 MINUTES
ALU SPRAY			2 MINUTES	5 MINUTES
1K FULL PRIMER			2 MINUTES	5 MINUTES
HS FILLER				5-7 MINUTES
2K STANDOCRYL			7 MINUTES	7 MINUTES
2K RAPID CLEAR 2:1 MS				7 MINUTES

PAINT TYPE	CODE No	MIX RATIO	REDUCER	HARDENER	COATS	FLASH TIME	BAKE TIME	TOTAL
PPG								
CONCEPT	DCC	2-1-2	DT885	DU5	2	5 MINUTES	10 MINUTES	15 MINUTES
ACRYLIC URETHANE	DAU	1-8-2	DT885	DAU2	3	3 MINUTES	7 MINUTES	10 MINUTES
CLEAR	DC1100	1-1		DC1275	3	3 MINUTES	7 MINUTES	10 MINUTES
CLEAR	DAU82	1-8-1	DT885	DAU2	3	3 MINUTES	7 MINUTES	10 MINUTES
CLEAR	DCU2020	2-1-1	DT885	DU5	2	3 MINUTES	7 MINUTES	10 MINUTES
CLEAR	DCU2001	2-1-1	DT885	DU5	2	5 MINUTES	12 MINUTES	17 MINUTES
CLEAR	DCD35	2-1		DU5	2	5 MINUTES	15 MINUTES	20 MINUTES
PRIMER	DP	1-1		401	2	4 MINUTES	6 MINUTES	10 MINUTES
PRIMER	DPW1832	RTS			1	3 MINUTES	5 MINUTES	8 MINUTES
PRIMER	DPW1834	RTS			1	3 MINUTES	5 MINUTES	8 MINUTES
SURFACER	K36	5-1-1	DT870	K201	3	3 MINUTES	6 MINUTES	9 MINUTES
SURFACER	DCP21	4-1-4	DT870	DCP212	3	4 MINUTES	8 MINUTES	12 MINUTES
SURFACER	K200	4-1-4	DT870	K201	3	3 MINUTES	6 MINUTES	9 MINUTES

PAINT TYPE	CODE No	FLASH TIME	BAKE TIME	TOTAL
BASF DIAMONT				
		50%HEAT	100%HEAT	
DIAMONT EPOXY PRIMER	DE-15		7 MINUTES	7 MINUTES
DIAMONT PRIMER FILLER	DP-20		5 MINUTES	5 MINUTES
DIAMONT TINTABLE PRIMER	DP-21		7 MINUTES	7 MINUTES
WATERBORNE PRIMER	HP-350	2 MINUTES	5 MINUTES	7 MINUTES
WATERBOURNE PRIMER	HP-400	2 MINUTES	5 MINUTES	7 MINUTES
DIAMONT SINGLE STAGE	HS SOLO		7 MINUTES	7 MINUTES
DIAMONT CLEAR	DC-88	5 MINUTES	7 MINUTES	12 MINUTES
DIAMONT MS CLEAR	DC-92	5 MINUTES	7 MINUTES	12 MINUTES
DIAMONT MS CLEAR	DC-93	5 MINUTES	7 MINUTES	12 MINUTES

PAINT TYPE	CODE No	FLASH TIME	BAKE TIME	TOTAL
BASF GLASURIT				
		50%HEAT	100%HEAT	

EPOXY PRIMER	801-1552		7 MINUTES	7 MINUTES
POLYESTER SPRAY FILLER	1006-202	11 MINUTES		11 MINUTES
POLYESTERFINE BODY FILLER	839-11	2 MINUTES		2 MINUTES
ACRYLIC PRIMER FILLER MS	285-22		5 MINUTES	5 MINUTES
ACRYLIC PRIMER FILLER	285-81		5 MINUTES	5 MINUTES
ACRYLIC TINTABLE PRIMER	285-75		7 MINUTES	7 MINUTES
GLASSOHD	76-86	2 MINUTES	5 MINUTES	7 MINUTES
GLASSOHD EPOXY	76-22	2 MINUTES	5 MINUTES	7 MINUTES
GLASSODUR ACRY TOPCOAT	21 LINE		7 MINUTES	7 MINUTES
GLASSODUR MS CLEAR	923-85	5 MINUTES	7 MINUTES	12 MINUTES
GLASSODUR CLEAR	923-54	5 MINUTES	7 MINUTES	12 MINUTES

ALL PRODUCTS REPRESENT 2 COATS. MORE COATS REQUIRE ADDITIONAL TIME.

APPLY INFRARED IMMEDIATELY AFTER PAINTING

ALL PRODUCTS WERE THINNED WITH K2 EXPRESS THINNER.

2 K 4:1 HARDENED WITH 2 K NORMAL.

2 K STANDOCRYL 1/2 RAPID CLEAR WERE HARDENED WITH 2:1 MS HARDENER.

THE ABOVE DATA HAS BEEN COMPILED AS A GUIDE ONLY

5. MAINTENANCE

5.1 Reflectors

The reflectors should be kept clean at all times to ensure maximum heat reflection. Dirty reflectors will reduce the energy transmitted and seriously affect the recommended drying times.

Take care not to touch lamps with fingers, should you inadvertently touch them clean with alcohol.

5.2 GAS STRUT MOVEMENT

This model is fitted with a lockable gas strut, to assist in the correct positioning of the cassette heads prior to any drying.

ALWAYS depress the lever before attempting to move the cassette support arm. When in position and the spring lever is released, the cassette assembly will be locked into place.

If the support arm is difficult to move or the arm moves downwards when the gas strut lever is depressed, a small adjustment may be required. (This may also become necessary after the machine has been in use for any length of time)

To make an adjustment, loosen the locking nut just above the lever - then turn the centre spindle of the gas strut half a turn in a clockwise rotation. This will adjust the pressure of the gas strut to improve operation. The ideal setting for the strut, is when the cassette arm moves neither up or down on its own when the lever is depressed.

If necessary the centre spindle can be adjusted in an anticlockwise direction to obtain the opposite pressure.

After adjustment re-tighten the lock nut above the handle.

5.3 LAMPS

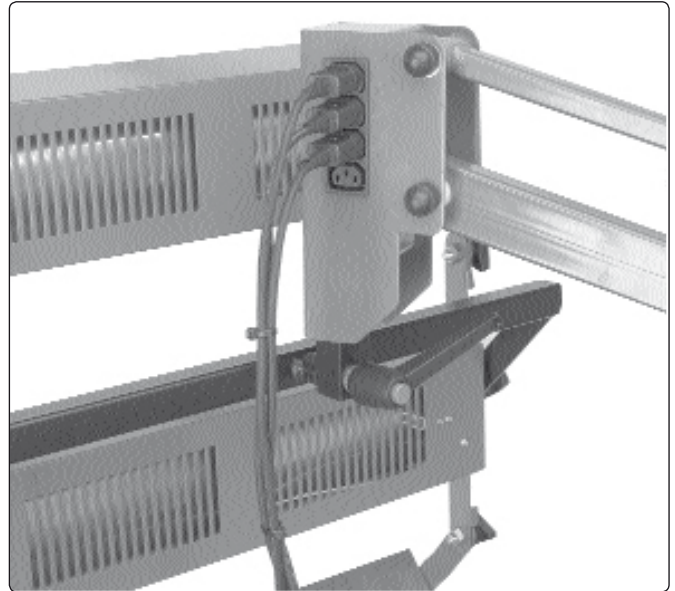
If any cassette fails to operate when the unit is reprogrammed, first re-check all switches at the rear of each cassette, as these may have been switched off during the previous program.

SHOULD IT BE NECESSARY TO CHANGE A LAMP PLEASE FOLLOW INSTRUCTIONS IN SECTION 3.2.

5.4 Before use perform a visual safety check to ensure the IR3000 is in good working order. Pay particular attention to electrical fittings.

For any other form of maintenance or electrical adjustments to your IR3000 machine refer to an authorised dealer.

When not in use store in a safe, dry, childproof location.



NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor, Sealey Group,
Kempson Way, Suffolk Business Park,
Bury St. Edmunds, Suffolk,
IP32 7AR

01284 757500

01284 703534

www.sealey.co.uk

sales@sealey.co.uk