



COMPLETE SOLUTIONS FOR ON-DEMAND CD & DVD PRODUCTION



CDC160
DVD case wrapper

OPERATING & MAINTENANCE MANUAL

**Thank you for purchasing a Solstice
CDC160 DVD Case Wrapper**

OPERATING & MAINTENANCE MANUAL

Document reference no. CDC3Ae (Rev.03.09)

Production standard

T.ZZ 004 018 (220V)

T.ZZ 004019 (110V)

**Distributed by Solstice Technologies Inc
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WARNING

To avoid electrical shock hazards, unit covers should only be removed by authorized personnel.



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ENVIRONMENTAL PROTECTION

Waste electrical products should not be thrown away with household waste.
Please recycle where facilities exist.
Check with your local authority or retailer for recycling advice.

JMV Robotique reserves the right to amend or modify the specifications and design criteria applying to these products.

WARRANTY TERMS

The CDC160 is covered by the JMV Robotique standard warranty.

WARRANTY EXCLUSIONS

We will not provide warranty repairs if, in our opinion, the problem resulted from externally caused damage, use outside the product's specification, faults caused by inexperienced or non-approved repairers.

The warranty does not cover the replacement of used consumables (or of parts which need periodic replacement during the life of the product as a result of the use made of them) unless the consumable itself is defective.



Note:

Heater blocks are not covered by the warranty.

IF YOUR PRODUCT FAILS WITHIN THE WARRANTY PERIOD

- Prepare a description of the problem you have had
- Make sure you have your proof of purchase document (invoice or receipt.)
- Contact your supplier

OPTIONAL EXTENDED WARRANTY PROGRAMMES

Optional extended warranty programs are available. JMV Robotique extended warranty programs can only be purchased at the same time or shortly after the product to be covered has been purchased. Contact JMV Robotique for details.

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SECTION 1: SPECIFICATION

Power supply:	115V 50/60Hz (VS4011) or 230V 50/60Hz (VS4010) (see the manufacturer label near the power plug)
Fuse:	1.6 Amp Anti Surge
Capacity:	200 per hour for the manual operation, 400 per hour for the automatic operation
Duty Cycle:	Continuous
Dimensions:	Height: 12.2" (310 mm) Width: 21.9" (556 mm) Depth: 22.4" (570 mm)
Gross Weight:	59.52lbs (27Kg)
Hopper capacity:	15 DVD cases
Polypropylene required:	Bi-Oriented Polypropylene (OPP)
Polypropylene size:	6" (210mm) x10.5" (303mm), tolerance -0+0,5mm
Polypropylene thickness recommended:	00013" 32 Micron

Polypropylene wrapping sheets are available from JMV Robotique.

SECTION 2: INTRODUCTION & INSTALLATION

2.1 Introduction

The CDC160 has been specially designed to provide a professional wrapping facility for DVD and “Amaray” type cases. The semi-automatic operation is simple and effective using pre-cut sheets of the polypropylene wrapping material. The first seal is affected manually and the finishing folds and seal are completed automatically. The CDC160 is a tabletop mounted unit, which can easily be transported if required.

In order to achieve the very best result, ensure you are using pre-cut polypropylene sheets to the exact size specified above. These can be ordered from JMV Robotique.

2.2 Installation

Your CDC160 has been fully tested at the factory and our Quality Control Department has ensured, before dispatch, that it performs satisfactorily to the full specification.

Carefully remove your CDC160 from its shipping carton and verify that all parts are present. If there are missing or damaged parts contact JMV Robotique or an authorized distributor immediately.

You should find the following:

- CDC160 Case Wrapper
- Power Cable
- Manual

Note:



If your CDC160 is damaged during shipment, please contact the freight carrier first, then, contact your distributor or JMV Robotique. You should save your shipping materials so that if the need arises, you can return your CDC160 for service. This packaging was designed specifically for shipping your CDC160. Other packaging may not be suitable.

After unpacking, place your CDC160 on a flat and clear surface.

The CDC160 will accept power from either 220V 50Hz or 110V 60Hz depending on the model you have ordered. The power connection is made to the CDC160 via the power cable supplied. The power circuit should be rated in accordance with the national and local electrical codes.



CAUTION:

The machine may be damaged if an incorrect voltage is used. A good electrical ground must be connected to the CDC160.

SECTION 3: OPERATION

3.1 Powering Up

After connecting to the power supply, power up the CDC160 using the switch situated on the side of the machine.

The commands on the front panel of the machine are as following:

- 1 - "Start/Stop" push button and indicator
- 2 - "Reset Default" push button and indicator
- 3 - "Front Heater" potentiometer & indicator
- 4 - "Side Heater" potentiometer & indicator

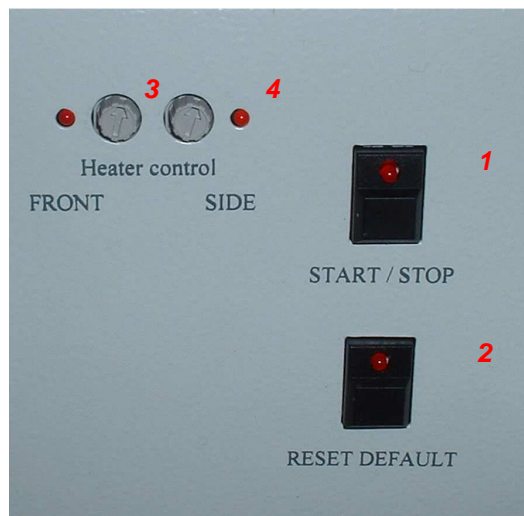


Figure 1

Switch on the CDC160 and allow the heaters to stabilize for approximately 15 minutes. When the machine is switched **ON**, both temperature indicators (3 & 4 above) must be **ON**. If this is not the case not, using a screwdriver, turn the potentiometer clockwise until the light goes **ON**.

3.2 Adjustments

The CDC160 has been pre-set with temperatures of heaters and cycle times suitable for a typical DVD case. Under normal circumstances the temperature settings should not require adjustment, however should difficulty in obtaining a reliable weld be experienced, the settings may be adjusted via controls on the front panel.



Note:

Care should be exercised not to set an excessively high temperature, which may result in damaged cases.

3.2.1 Adjusting the Side Heater Control

The side heater control varies the temperature of the side heaters and should be used in conjunction with the timer control. Clockwise rotation increases the temperature.

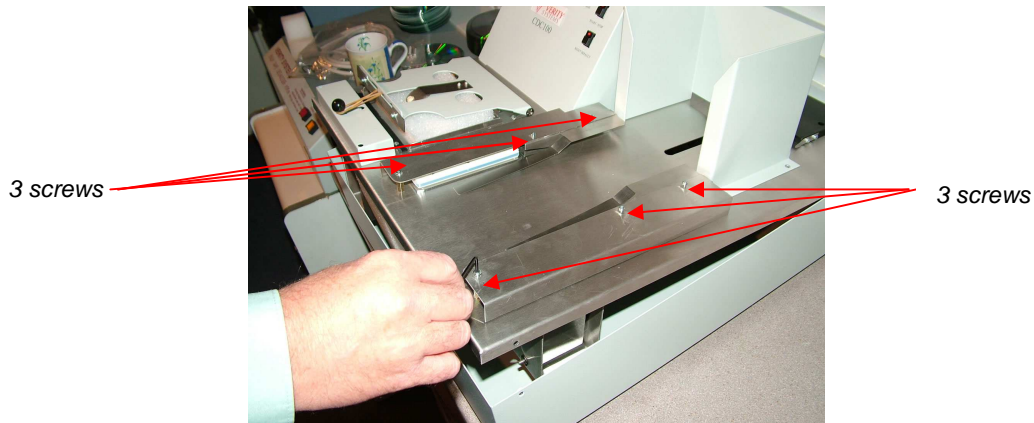
3.2.2 Adjusting the Front Heater Control

The front heater control varies the temperature of the front heater used in the first stage of the wrapping and will determine how long the heater is held manually in contact with the case. Clockwise rotation increases the temperature.

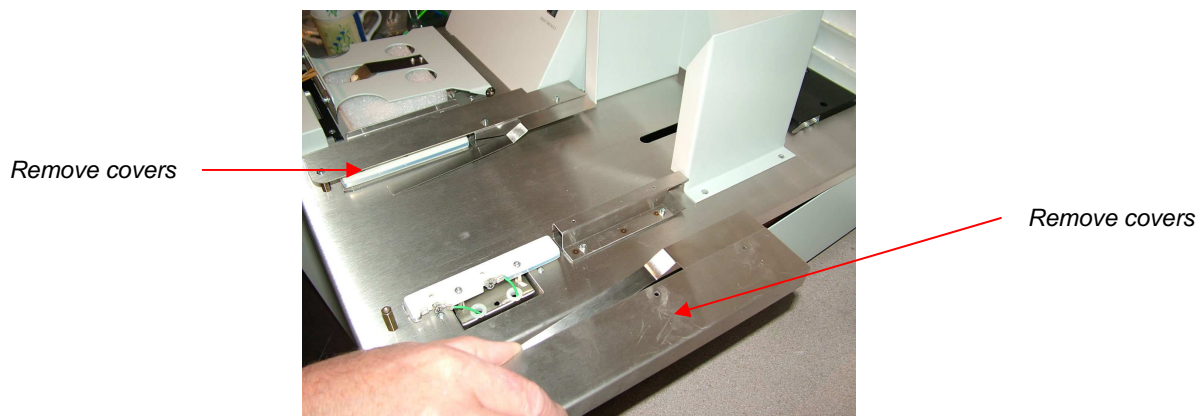
3.2.3 Adjusting the Side Seal

The CDC160 over-wrapper has been set to suit the enclosed sample wrapped case. DVD cases can vary in size by 0.5mm in length which can affect the side fold and seal. If you are experiencing problems, adjustments can be made to correct this as follows:

1. Remove the power cable.
2. Remove the side seal covers by removing the 3 screws on each side.



3. With the screws removed, lift the cover of each side of the heating element.



4. Loosen the 2 screws holding the guide in place.



5. With the screws loose, the guides can now be moved in or out up to 0.5mm. If the guides are at their outmost position, move both guides fully to the centre. If the guides are at their innermost point, move both guides back as far as they will go.

6. Tighten the screws on both guides.
7. Replace both side covers, fit and tighten the 3 screws on each side.
8. Replace power cable.

**Note:**

The efficiency of operation of the CDC160 will obviously be controlled to some degree by the ability and experience of the operator. However it is recommended that the CDC160 be operated on a suitably high surface allowing the operator to judge with some accuracy the positioning of the pre-cut sheets of polypropylene in the unit.

3.3 Operating the CDC160

Wrapping the DVD Case on the CDC160 is a two-stage operation. The first stage involves sealing two ends of a pre-cut sheet of polypropylene, wrapped around the DVD case, together. The final stage folds and seals the edges of the sheet around the case automatically.

Lift up the hinged lid of the folding tray in front of the control panel and place the polypropylene sheet centrally in the tray (figure 2) Ensure that one end of the sheet is pushed against the two tabs at the front edge of the tray. (figure 3)



Figure 2



Figure 3

Place a DVD case in the tray on top of the polypropylene sheet. The case should be positioned so that the spine of the case is nearest to you and that the case is placed against the front guide (figure 4). The bottom of the polypropylene sheet will fold up against the spine of the case.



Figure 4

Fold the remaining half of the polypropylene sheet down over the case and lightly tension the sheet in the forward direction with finger pressure and hold in the sheet in position with thumb pressure then trap the sheet in position with the hinged lid of the tray (figure 5). A cut-out in the lid is provided to allow thumb pressure to be maintained until the lid is closed (figure 6).

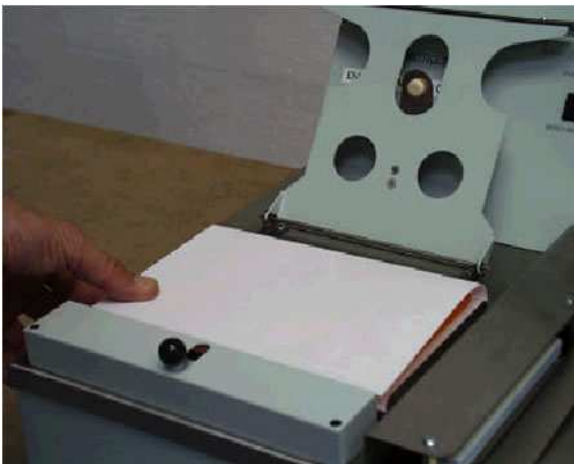


Figure 5



Figure 6

While holding the tray lid down apply heat to the two ends of the polypropylene sheet by pushing the heater onto the front edge of the case and holding it there for two seconds. The heater position is controlled by pushing the black knob, directly in front of the tray, towards the tray up to a mechanical stop. (figure 7)



Figure 7

Hinge up the tray lid and remove the sleeved DVD case (figure 8). Taking care not to allow the case to slide out of the sleeve, rotate the case 180 degrees left to right and place it in the hopper. (figure 9)



Figure 8



Figure 9

Repeat the above procedure for at least two more cases, which is required to allow the hopper and the second stage of the wrapping to function correctly.

Press the start/stop button on the control panel (figure 10) and the cases in the hopper will be pushed forward one at a time between the side folders and heaters and ejected at the front of the unit in a fully wrapped condition (figure 11).



Figure 10



Figure 11



NOTE:

If at any time the unit fails to respond to the start/stop button the reset/default button must be pushed to reset the hopper and side heater mechanisms.

SECTION 4: ERRORS

The "Reset Default" light is flashing; the "Start/Stop" push button cannot be used.

Check that the pusher on the automatic side of the machine (at the back/bottom of the hopper) has jammed. If the surface in front of the pusher is clear, press the "Reset Default" push button. The light goes OFF. Press the 'Start/Stop' push button once again, the machine starts again.

If the "Heater" control light stays off whatever the position of the heater potentiometer, there is something wrong on the heating circuitry.

Open the front panel cover by removing the two screws at the rear of the cover (figure 12).

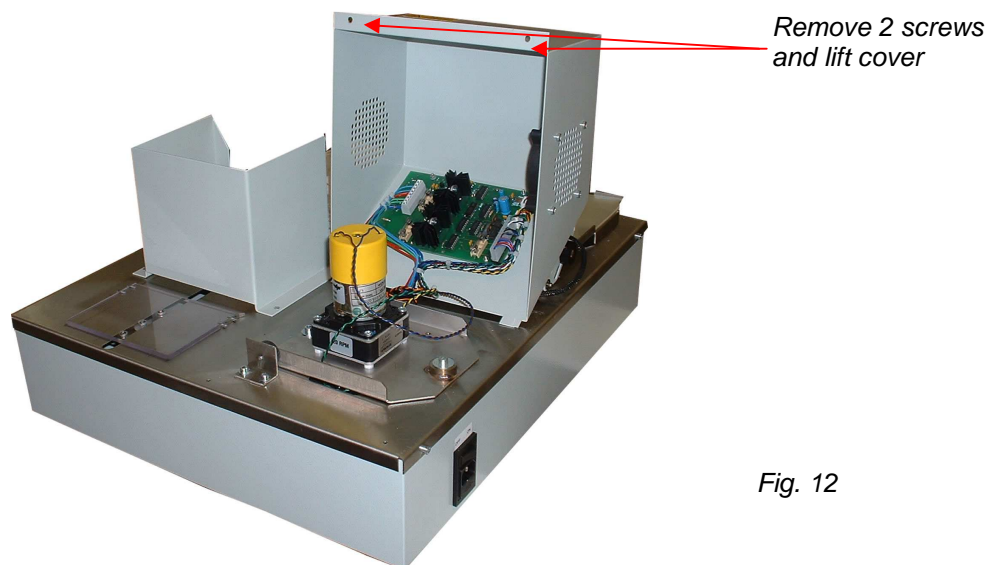


Fig. 12

Test the three 10 Amps fuses on the electronic board (figure. 13) with a continuity meter. If one of the 10 Amps fuses is blown, replace the fuse.

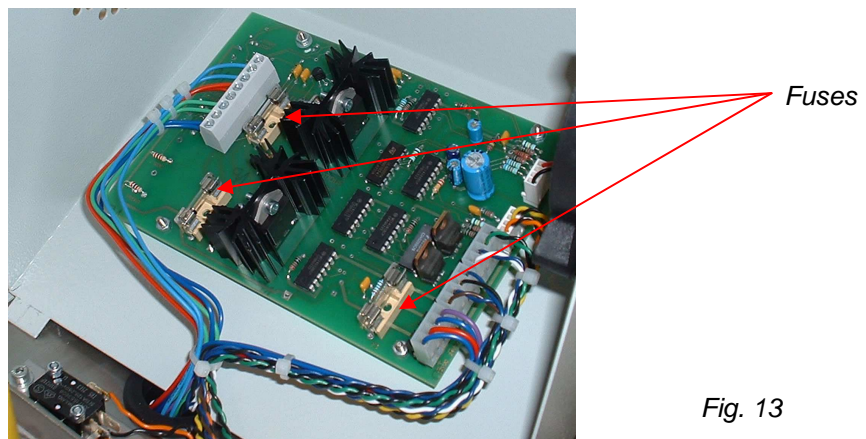


Fig. 13

If the "Heater" light is ON and the heater does not work, the heater block will need to be replaced (see spare part list in Section 5 of this manual).

SECTION 5: SPARE PARTS

See corresponding diagram in Appendix A.

Rép./Item	VS part #	Qty/mach.	Description	Désignation
1	TJM000104	1	DC Motor 24 rpm	Moto réducteur 24 rpm
2	TJM000250	4	Ball bearing 604ZZ	Roulement 604ZZ
9	TJM000251	2	Electro magnet	Electro aimant
12	TJM000254	1	Rubber safety block	Buttée de sécurité
18	TJM000257	1	Knob front seal	Poignée boule résistance frontal
50	TJM000258	1	Control board	Carte électronique
51	TJM000259	1	Transformer 2x9V 300 VA	Transformateur 2x9V 300VA
53	TJM000267	1	Main power socket/switch	Prise secteur/interrupteur
54	TJM000090	1	Fuse 2AT (main supply)	Fusible 2AT (prise de courant)
55		1	Power cord EU	Cordon secteur EU
56	TJM000047	3	Micro-switch basic pin	Microrupteur à bille
58	TJM000261	1	Fan	Ventilateur
59	TJM000125	1	Power supply 24V DC	Alimentation 24V
60	TJM000126	1	Power supply 12V DC	Alimentation 12V
101	TJM000273	1	Cam block	Bielle de commande
152	TJM000379	4	Rubber foot H24,5	Pied de machine H24,5
102.160		1	Pusher	Poussoir
11.1	TJM000253	1	Heater block front seal L190	Résistance ensemble frontal L190
11.2		1	Heater block right side L137	Résistance ensemble latéral droite L137
11.3		1	Heater block left side L137	Résistance ensemble latéral gauche L137
11.4	t b defined	1	Front heater resistor wire L280	Fil chauffant résistance frontale L280
11.5		2	Side heater resistor wire L217	Fil chauffant résistance latérale L270
208.160	TJM000274	1	Cover with shaft and conformer	Couvercle avec rabat pour pliage
210.160	TJM000264	1	Conformer right side	Conformateur droit
216.160		1	Cover front heater protection	Carter pour résistance frontal
219.160	TJM000255	1	Cover right side conformer	Carter conformateur droit
222.160	TJM000263	2	Folder finger	Doigt poussoir
224.160	TJM000265	1	Conformer left side	Conformateur gauche
225.160	TJM000256	1	Cover left side conformer	Carter conformateur gauche
F3	TJM000088	1	Fuse 2AT (mains supply)	Fusible 2AT (prise de courant)
F1&F2	FF100009	2	Fuse 10AT (control board)	Fusible 10AT (carte électronique)
NR	TJM000091	2	Fuse 4A (power supply 12V/24V)	Fusible 4A (alimentation 12V/24V)

APPENDIX A

