



FABRIC KIT MANUAL

FABRIC KIT SUPPLEMENTAL TERMS OF SALE

EQUIPMENT WARRANTY

Covered Components: CLO Fabric Kit components covered by this Limited Warranty (refer to the Components Section in the Fabric Kit Manual):

- Stretch Test Device
- Bending Test Device
- Thickness Gauge
- Stencil
- Scale
- Charging Adapter

CLO Virtual Fashion, Inc. ("CLO") warrants to the end user purchaser ("Customer") that the components of the CLO Fabric Kit described above (each, a "Covered Component") will be free in all material respects from manufacturing defects, under normal and intended use as described in the Fabric Kit Manual furnished by CLO ("Documentation"), for a period of one (1) year from Customer's original date of purchase of the CLO Fabric Kit, from CLO, its affiliates, or its authorized resellers ("Warranty Period"). If a Covered Component fails to conform to the foregoing warranty and CLO receives a valid written claim within the Warranty Period, CLO will, at CLO's option and expense: (a) use commercially reasonable efforts to repair or replace the defective Covered Component or part with a new or refurbished Covered Component or part, or (b) accept the return of the Fabric Kit and refund to Customer the full original purchase price of the Fabric Kit. The foregoing warranty is CLO's sole obligation and Customer's sole and exclusive remedy for any defects in a Covered Component. Repair or replacement of a defective Covered Component or part does not extend the original Warranty Period for such Covered Component.

Exclusions and Limitations. This warranty is void and does not apply to: (a) damage resulting from mishandling, abuse, misuse, accident, negligence, or the Customer's failure to properly calibrate a Covered Component or follow installation or operating instructions, (b) normal wear and tear, (c) defects caused by alterations, modifications, repair and servicing not made or authorized by CLO, (d) damage caused by handling, operating, storing, and using the Fabric Kit outside the permitted or intended uses described in the Documentation, including but not limited to use in wet conditions, (e) defects that are not reproducible by CLO, and (f) batteries used in a Covered Component. Actual battery life varies depending on use. This warranty is also void and does not apply if Customer opens the casing of any Covered Component.

Instructions to Obtain Warranty Service. In order to receive any remedy under this Limited Warranty, Customer must follow CLO's RMA Procedures (See Fabric Kit Return and Exchange Policy).

EXCEPT AS STATED ABOVE IN THIS LIMITED WARRANTY, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLO DISCLAIMS ALL EXPRESS, IMPLIED, AND STATUTORY WARRANTIES AND CONDITIONS WITH RESPECT TO THE FABRIC KIT AND ANY COVERED COMPONENT, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLO ALSO LIMITS THE DURATION OF ANY APPLICABLE IMPLIED WARRANTIES OR CONDITIONS TO THE DURATION OF THIS LIMITED WARRANTY.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL CLO, NOR ANY OF ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS (COLLECTIVELY, THE "CLO PARTIES") BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF OR INABILITY TO USE THE FABRIC KIT OR ANY COVERED COMPONENT, HOWEVER CAUSED, OR THIS LIMITED WARRANTY, AND UNDER ANY THEORY OF LIABILITY EVEN IF CLO WAS PREVIOUSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL CUMULATIVE ACTUAL DAMAGES TO WHICH YOU MAY BE ENTITLED ARISING FROM OR RELATED TO THIS LIMITED WARRANTY, THE FABRIC KIT OR ANY COVERED COMPONENT SHALL BE LIMITED TO THE AMOUNTS PAID BY YOU, IF ANY, TO PURCHASE THE PRODUCT AT ISSUE FROM CLO. THIS LIMITATION IS CUMULATIVE AND WILL NOT BE INCREASED BY THE EXISTENCE OF MORE THAN ONE INCIDENT OR CLAIM.

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF STATUTORY OR IMPLIED WARRANTIES, OR THE EXCLUSION OR LIMITATION OF LIABILITY FOR CERTAIN TYPES OF DAMAGES. IN SUCH JURISDICTIONS THE LIMITATIONS AND EXCLUSIONS SET FORTH HEREIN MAY NOT APPLY TO YOU. CONSEQUENTLY, IN SUCH JURISDICTIONS, THE LIABILITY OF THE CLO PARTIES IS LIMITED TO THE EXTENT PERMITTED BY LAW, THEREBY MINIMIZING THE LIABILITY OF SUCH CLO PARTIES TO YOU TO THE LOWEST AMOUNT PERMITTED BY APPLICABLE LAW. THIS LIMITATION IS INDEPENDENT OF ANY OTHER LIMITATION SET FORTH HEREIN.

IF YOU ARE A CALIFORNIA RESIDENT, YOU WAIVE CALIFORNIA CIVIL CODE §1542, WHICH SAYS: A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR.

CONSUMERS WITHIN THE EUROPEAN UNION/EUROPEAN ECONOMIC AREA

This Limited Equipment Warranty may not apply to consumers within the European Union/European Economic Area. Where inapplicable by applicable law, Consumers within the European Union/European Economic Area are covered by national consumer protection laws or regulations. Thus, the rights of Consumers within the European Union/ European Economic Area with regard to purchase of the Fabric Kit will be governed by applicable national legislation governing the sale of consumer goods.

For information on EU-wide consumer laws, please visit the European Consumer Centre website at http://ec.europa.eu/consumers/ecc/contact_en.htm.

If no specific information is provided for your country, or if you have any questions about consumer laws in your country, please contact your local European Consumer Centre at http://ec.europa.eu/consumers/ecc/contact_en.htm.

(end of Fabric Kit Limited Equipment Warranty)

FABRIC KIT RETURN AND EXCHANGE POLICY

CLO Virtual Fashion, Inc. (CLO) accepts returns and exchanges only in accordance with our Limited Warranty.

This Policy applies only to the CLO Fabric Kit and the Covered Components described in the Limited Warranty, and not to any other products or services offered by CLO.

Only returns that meet the following criteria will be accepted under the Limited Warranty:

1. The Fabric Kit and all its Covered Components must have been purchased directly from CLO.
2. You must obtain a valid Return Merchandise Authorization Number (RMA) by following the procedures specified below.
3. In your RMA request, you must specify in detail the reason for your request.
4. Your return must be accompanied by a copy of the RMA.
5. Your Fabric Kit was delivered to you within 12 months of your request.
6. A copy of the original order confirmation must be included.
7. All original packaging must be included.
8. All original accessories must be included.
9. The Fabric Kit and all accompanying accessories being returned must be returned in the same condition as originally provided to you (for example, free from liquid contamination or other physical damage).

If your request does not meet all of the above criteria but you still wish to make a request, please contact us at support@clo3d.com. Under certain circumstances, and in our discretion, we may still be able to process your request.

Missing, Damaged or Incorrect Orders. Please inspect your order as soon as you receive it. While we do our best to deliver your order in complete and undamaged condition, in the unlikely event your order is incomplete or damaged, please contact us immediately at support@clo3d.com. We will not accept return or refund requests for damaged or incomplete shipments unless you contact us within 3 days of order receipt.

Requesting an RMA. Returns are accepted only in accordance with our Limited Warranty or applicable consumer protection laws (for non-US customers).

Please follow the procedures below to obtain an RMA (Return Merchandise Authorization) number. Any missing or inaccurate information may result in a delay or denial of your request.

1. Compose an e-mail with the following information:
 - Your name
 - Your Company (if applicable)
 - Address
 - Phone number
 - Email address
 - A description of the reason for your return
2. Email the information to support@clo3d.com. If your request is approved, you will receive a RMA number and shipping information within 48 hours of your request. Approved returns must be received by CLO within 21 days of the issuance of an RMA.

3. Items you return must be securely packaged to prevent loss or damage in transit. A valid RMA number and your return address should be clearly visible on the outside packaging. Postage must be pre-paid, and you must be able to track and confirm delivery to us. You bear all in-transit risk of loss or damage to items you return. If you send items without a valid RMA number prominently displayed on the outside mail packaging, it may be returned to you unopened.

Subject to availability and where applicable, repaired or replacement items will be shipped on the next business day following our receipt of your return. CLO will be responsible for the cost of shipping repaired or replacement item back to you under the Limited Warranty.

Shipping and Handling Costs. Shipping and handling charges are non-refundable. You are also responsible for any shipping and handling charges associated with shipping items to CLO. No reimbursements will be made to you for such costs.

Processing Refunds. Refunds will be issued in the currency of your original order. We are not liable for any transaction costs you incur associated with your refund. Refunds will be credited to your original form of payment. Please allow up to thirty (30) days after we receive your return to process your refund.

Please Note

CLO reserves the right to, at our discretion, modify, suspend or terminate this Policy. Any change to this Policy applies to orders made after modifications are posted.

Contacting Us

If you have any questions, please contact us at support@clo3d.com.

(end of Fabric Kit Return and Exchange Policy)

Customs, Duties and Taxes for International Shipments

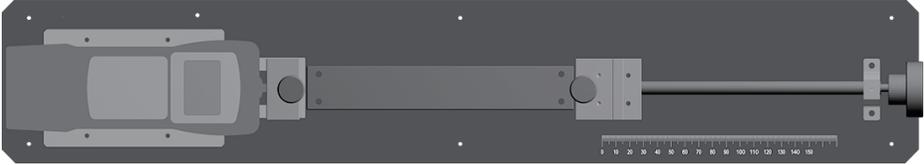
You, the purchaser, are the importer of record and you must comply with all laws and regulations of the order destination. Orders shipped outside of the United States or South Korea may be subject to import taxes, customs duties and fees levied by the destination country, which are levied once a shipment reaches the destination country. Additional charges for customs clearance must be fulfilled by you, the recipient. CLO has no control over these charges, nor can we predict what they may be. Customs policies vary widely. Please contact your local customs office for more information. When customs clearance procedures are required, it can cause delays beyond our original delivery estimates.

Customs offices in some countries or regions require the importer of record (i.e. you) to provide a particular form of identification before releasing a shipment. You may be required to provide an identification number such as a Unique Identification Number, CPF, or Tax ID.

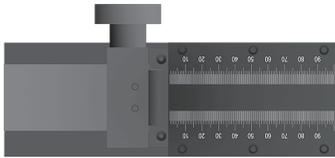
(end of Customs, Duties and Taxes for International Shipments Notice)

1. COMPONENTS

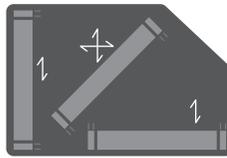
Please identify and confirm the following components.



i STRETCH TEST DEVICE



i BENDING TEST DEVICE



i STENCIL



i THICKNESS GAUGE

i SCALE

i UTILITY KNIFE

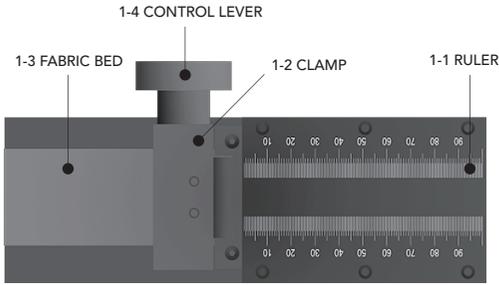
i SCREWDRIVER

i CHARGING ADAPTER

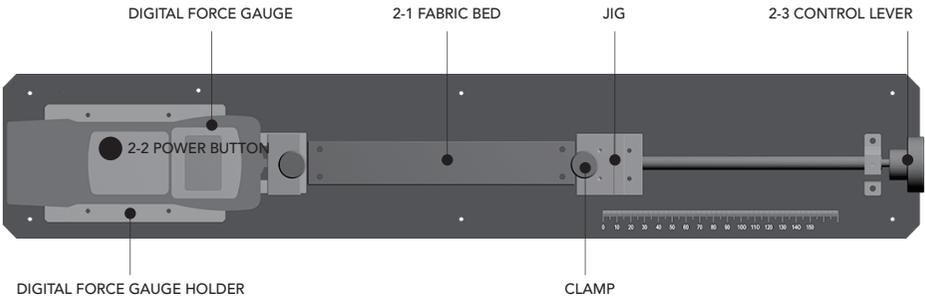
i USER MANUAL

2. TOOL LEGEND

i BENDING TEST DEVICE



i STRETCH TEST DEVICE



3. SPECIFICATION

STRETCH TEST DEVICE	680mm x 120mm x 87mm
BENDING TEST DEVICE	202mm x 92mm x 76mm
DIGITAL FORCE GAUGE SIZE	188mm x 69.5mm x 41mm
DIGITAL FORCE GAUGE BATTERY	NICKEL BATTERY 6V / 1500Ah
SCALE SIZE	120mm x 60mm x 20mm
THICKNESS GAUGE SIZE	90mm x 55mm x 17mm
STENCIL SIZE	330mm x 240mm x 4mm

4. HOW TO ATTACH THE DIGITAL FORCE GAUGE TO THE FABRIC KIT

Use total of eight screws to assemble. Remaining two screws are extra.

- 1 Screw the Jig into the Digital Force Gauge. Turn about 3-4 times and do not tighten all the way. However screw the Jig until the Control Lever faces up, aligning with the Digital Force Gauge.



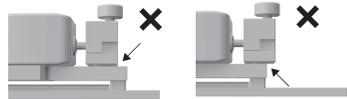
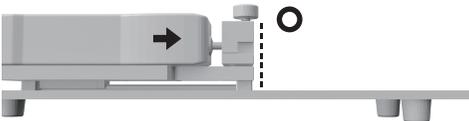
- 2 Align the Holder underneath the Digital Force Gauge.
- 3 Fasten the Holder to the Digital Force Gauge with Screws (x4).



- 4 Loosely tighten the Screws (x4) to affix the Digital Force Gauge to the Fabric Kit, enough so that Digital Force Gauge can be moved.



- 5 Shift the Digital Force Gauge to vertically align the Jig as the image below.



- 6 Tighten Screw B to affix the Digital Force Gauge Holder to the Fabric Kit.
If the Digital Force Gauge is not affixed properly, the measured Force values may not be accurate.

5. OVERVIEW

Prepare swatch ▶ Measure the swatch weight and thickness ▶ Measure the bending strength ▶ Measure the stretch ▶ Calculate entered measurements ▶ Apply a texture

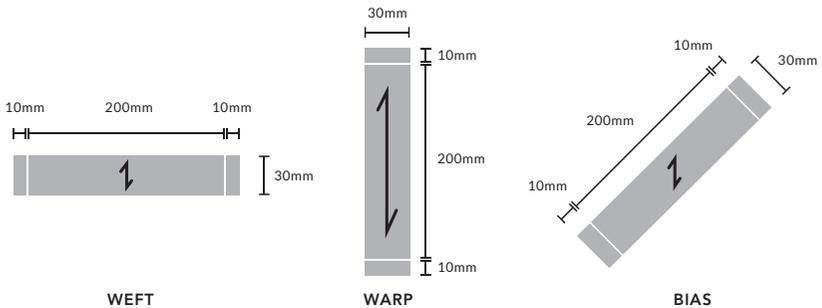
6. HOW TO MAKE FABRIC

Launch CLO Enterprise, then switch to Emulator mode using the top-right drop-down menu to enter the values measured from the Fabric Kit.

A. SWATCH PREPARATION

✦ Before cutting out the swatches, please ironing the swatch gently without causing any shrinkage.

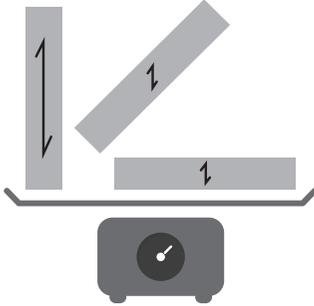
- 1 Confirm the grainline of the swatch.
- 2 Prepare a total of three swatches with the provided stencil.
 - Each swatch will represent a different grain, cut in the (1) weft, (2) warp, and (3) bias directions, measuring 220mm x 30mm in size.
 - These will be used to measure the weight, bending, thickness and stretch properties of the swatch.



- 3 Cut the swatches along the drawn guidelines, being as precise as possible for accurate measurements.

B. FABRIC WEIGHT

- 1 Turn on the scale.
- 2 Place all three swatches on the scale.
- 3 Enter the displayed weight in the Emulator.



C. FABRIC THICKNESS

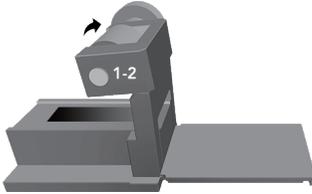
- 1 Press the lever of the thickness gauge to create a gap and place the swatch.
- 2 Place the 220mm x 30mm swatch in between the gap.
- 3 Release the lever and enter the measured thickness to the Emulator.
- 4 Click Next to continue.



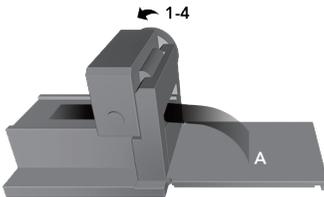
D. BENDING TEST

The Bending Test is performed 3 times : first for the weft swatch, and next the warp swatch, then the last for the bias swatch.

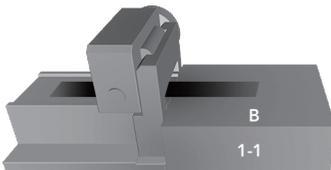
- 1 Slide open the 1-1 Ruler of the Bending Test device.
- 2 Turn the 1-2 Clamp back, then insert the end of the swatch, lining it up to the dotted line.
- 3 Pull down the 1-2 Clamp to affix the swatch.



- 4 Wind the 1-4 Control Lever clockwise, then stop when the swatch hits the ground.



- 5 Measure and enter this point of contact as the Contact Distance (A).
- 6 Place the 1-1 Ruler beneath the swatch, then enter the measured length (B) in the Emulator.



E. STRETCH TEST

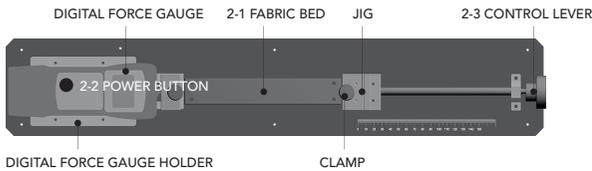
The stretch test will allow you to measure the stretchability and threshold at which a fabric will no longer stretch.

To do this you will explore the relationship between length of stretch and force applied to the swatch, then record and input your findings into the Emulator Mode of CLO.

The reading from the Length Ruler and Digital Force Gauge combined will be one set of measurements.

You will need a minimum of 3 sets and a maximum of 5 sets for each swatch.

When testing, you will need to determine, which unit of length will be your constant.



- 1 Wind the Control Lever until the needle aligns with 0 on the Length Ruler.
- 2 Loosen the Clamps at each end of the Fabric Bed.
- 3 Insert both ends of the swatch between the Jig openings, aligning the 10mm line marks.
- 4 Tighten the Clamps at each end to secure the swatch ends.
- 5 Turn on the Digital Force Gauge.
- 6 Determine Length constant:
 - ✦ We recommend you to fill out all five sections as possible because when you have more measurements, data is more accurate.
 - When the swatch is pulled by 1mm and the force is less than 0.01kgf
 - 1) Pull the fabric swatch until the force value is 0.01kgf.
 - 2) Starting with the length reached at step 1, check the length and force of each 10mm increment.
 - 3) Record 10 sections.(In the case of not being able to record 10 sections, record all the measurable sections.)
 - 4) Use a value only when the force difference of each section is at least 0.02kgf.(If the force difference for each interval is less than 0.02kgf, do not use that value.)
 - 5) Finally, select and use values resulted in at least 3 sections and up to 5 sections.(We recommend that you fill out all five sections as much as possible because the more measurements you have, the more accurate the data is.)
 - When the swatch is pulled by 1 mm and the force value is over 0.01kgf
 - 1) Check the value of the force when swatch is pulled to 1mm.
 - 2) Starting with the length reached at step 1, check the length and force of each 1mm increments.
 - 3) At this time, measure 3 to 5 sections.(We recommend that you fill out all five sections as much as possible because the more measurements you have, the more accurate the data is)

- 7 Once the test has been completed for a swatch, reset the Control Lever so the needle aligns with 0 on the Length Ruler. Then unscrew the clamp at each end and remove the swatch. If you are finished testing you can turn the Digital Force Gauge off. In between each swatch test you should turn the digital force gauge off and then back on after the needle has been returned to the 0 mark.
- 8 Click Next to Continue.

7. HOW TO USE THE DIGITAL FORCE GAUGE

The Digital Force Gauge uses the default settings as the image below. If a button was mistakenly pushed, power the Digital Force Gauge off, then on, to reset the device to its default settings. However, if the default unit of measurement was changed, press button B to reset the device to Kgf.



i FREQUENTLY USED BUTTONS

- A. POWER** - turn the Digital Force Gauge on/off
- C. LED** - turn the LED display on/off
- D. UNIT** - change the unit of measurement; Kgf is used to measure the stretch

i UNUSED BUTTONS

The following buttons are not used in the Stretch Test.
If one of these buttons are mistakenly pushed, reset the Digital Force Gauge with the Power button.

- B. RESET**
- E. MODE**
- F. REVIEW**
- G. SETTINGS**
- I. SAVE**

i CHARGING

Use the provided adapter to charge the Digital Force Gauge.