Mastering Your

BERNINA®
Embroidery
Module/Machine

Owner's Workbook

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Embroidery Beginnings

Introduction

Congratulations on your purchase of a BERNINA® embroidery machine or module!

This workbook is designed to be used in conjunction with the Owners Classes you will take at your BERNINA® dealership, and contains a series of exercises intended to familiarize you with the features of your new BERNINA®. In addition, you will learn about needles, threads, stabilizers, interfacing, embroidery hoops and accessories, all of which will increase your knowledge of sewing and assist you in achieving success in all of your sewing endeavors.

Once you have completed the exercises designated for your BERNINA® machine, attach the sewn samples to the indicated pages and insert the pages into plastic page protectors and store them in a 3-ring binder. They can then be used a reference tool in the future as you use your machine and explore the creative possibilities it affords you.

BERNINA® of America, Inc. strives to provide its customers not just with quality sewing machines, but with informative publications and classes. Along with providing Owners Classes, your local BERNINA® dealer stocks BERNINA® books and magazines, such as *ABC's of Embroidery* and *Through the Needle*. Plus, BERNINA® of America, Inc. has a website - www.berninausa.com - offering free projects and embroidery designs, inspirational stories, and interviews with creative stitchers.

Learn to use your BERNINA® machine to its full extent and enjoy being creative with fabric and thread!

This class is formatted for owners of the following models of BERNINA® embroidery systems:
- *Deco* 330
- *aurora* 430E
- *aurora* 440E
- *artista* 165E
- *artista* 185E
- *artista* 200E

My BERNINA® embroidery machine/module model is:

_____

I purchased it on: _____

at _____

_____

_____

General Information:
Your Embroidery Machine/Module

Module/Machine Details
See Owners Manual for details.
- Card Slot
- Hoop Clamp
- Selection Menu
- Layout/Edit Screen(s)
- Embroidery/Stitch Screen
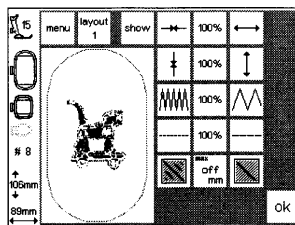
aurora 430E & 440E: insert page 5a

	Deco 330	*artista* 165E	*artista* 185E	*artista* 200E
Selection Menus				
Embroidery Screens				
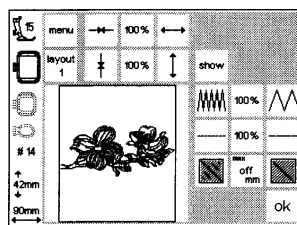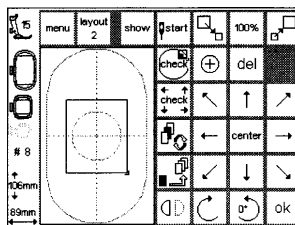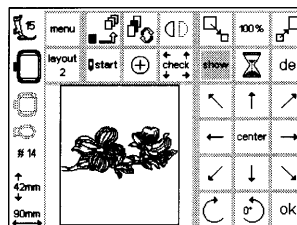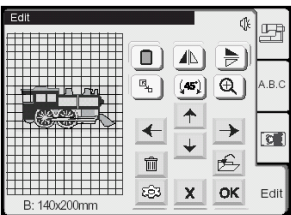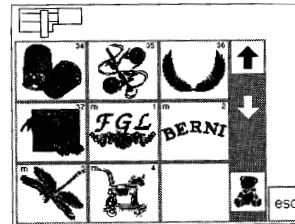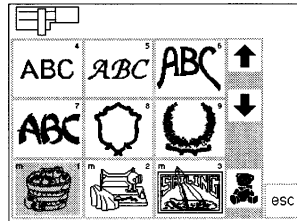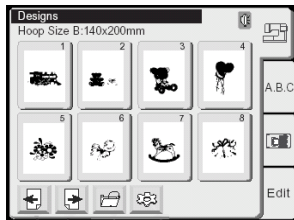
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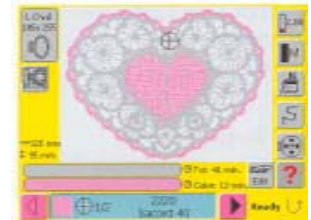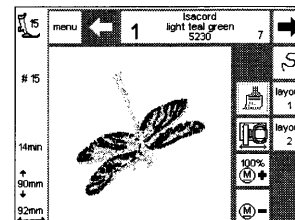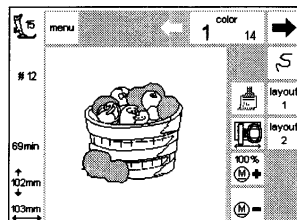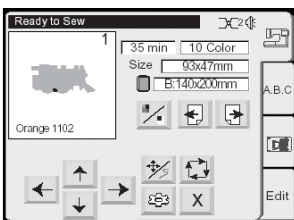
Embroidery Hoops

- *Deco* 330 Hoops
  Small Free-Arm Hoop - optional accessory
  Medium Hoop - standard accessory
  Large Hoop - standard accessory
  Round Hoop - optional accessory

- *aurora* & *artista* Hoops
  Small
    - standard for *artista* 185E & 200E
    - optional for *artista* 165E
    - unavailable for *aurora* 430E &440E at this time
  Medium
    - standard for *artista* 165E & 200E
    - optional for *artista* 185E
    - optional for *aurora* 430E &440E
  Large
    - standard for *artista* 165E
  Large Oval
    - standard for *artista* 185E & 200E
    - standard for *aurora* 430E & 440E
    - Hoop'N'Buddyz Hat Hoop Insert (fits Large Oval only)
  Mega
    - optional; available for *artista* 200 only

- Hoop-It-All™ Hoops (not all hoops are available for all models)
    - Quilters Square Double Wide
    - Giant Double Wide
    - Giant Hoop
    - Big Hoop
    - Hoop-It-All™ (cap hoop)

Additional Accessories
- Hoop Templates (included with hoops)
- Spool Caps
- Thread Net - helps control slippery embroidery threads
- Supplemental/Silky Thread Guide (*artista* & *aurora* only)
- Multi-Spool Thread Stand
- Multi-Spool Thread Stand Extender
    - holds three additional spools
    - Thread Stand accommodates two Extenders
- Straight Stitch Plate (optional, *artista* & *aurora* only)
- Gold Latch Bobbin Case (*artista* 185E & 200E only)
- Dust Cover (*Deco* only)
- Red, Zippered Bag for Module (*artista* 165E & 185E only)
- Red Cover for Module (*artista* 200E only) (zips to cover)
- Suitcase System (optional for all machines and modules)

Studio BERNINA Embroidery Collections
- .art formatted cards for *Deco* and *artista* systems
    (*aurora* systems: access cards via Magic Box Plus)
- non-encrypted, multi-format CDs
    (include true .art files for *artista* 200E)
- Embroidery Take-Out design CDs available through dealers
- www.embroideryonline.com – downloadable design files

Needles
Types/Sizes/Parts
Matching needle and thread

Embroidery & Bobbin Thread
Good quality vs. poor quality
Fibers and weight

Notes

Software and Peripherals
- **BERNINA** embroidery software
  Editor Lite (*aurora* embroidery system only)
  Editor
  Auto-Designer
  Designer Plus

- USB Cable (standard with *aurora* 430E/440E & *artista* 200E)
  to connect embroidery module to computer

- BERNINA CD Drive (*artista* 200E only)

- BERNINA Modem (optional accessory for *artista* 200E only)

- BERNINA Customized Pattern Software (CPS)
  (optional for *artista* 165E; included with 185E)
  additional embroidery designs and stitch patterns

- Magic Box Plus & Mini Magic Box Plus
  Used to transfer designs to 330
  Used to convert non-.art design cards
  Used by the *aurora* embroidery system to access design
     card files

- Swap Box
  Used to convert *Deco* 500/600/650 cards to *Deco* 330

- Card Reader/Writer Box (165E-185E; 200E)
  Used to transfer designs from PC to Personal Design Card

Notes

4 Levels of BERNINA® v4.0 Embroidery Software

There are 4 levels of BERNINA® v4.0 embroidery software: Editor Lite (available only with the *aurora* embroidery system), Editor, Auto-Designer, & Designer Plus. For a complete comparison chart, visit www.berninausa.com.

Notes

Editor Lite v4.0
Basic customizing software for quickly & easily combining designs & text.
*Also functions as "editing screen" for **aurora** embroidery system.*
- For the user that wishes to combine and re-color designs
- For the user that wishes to add text and manipulate lettering
- For the user that wishes to work with design CDs or designs downloaded from www.embroideryonline.com
- Can use the Magic Box Plus and Magic Cards
- Integral part of (& only available with) the *aurora* embroidery system

Editor v4.0
Powerful but easy-to-use software for making changes to existing designs.
- For the user that wishes to customize and edit designs and lettering
- For the user that wishes to work with designs from cards, disks, CDs, and downloaded from the Internet
- Includes the Cross Stitch Program
- Includes the BERNINA Quilter Program
- Can use the Magic Box Plus and Magic Cards

Auto-Designer v4.0
Create professional-looking embroidery designs in seconds.
- For the user that wishes to customize and edit designs and lettering
- For the user that wishes to work with designs from cards, disks, CDs, and downloaded from the Internet
- For the user that wishes to create designs automatically
- Includes the Cross Stitch Program
- Includes the BERNINA Quilter Program
- Includes the PhotoSnap Program
- Can use the Reader/Writer Box and Personal Design Cards
- Can use the Magic Box Plus and Magic Cards

Auto-Designer v4.0
Explore the complete world of embroidery software including hand-look
Craft Stitches, Auto-Applique, Auto-Digitizing & Manual Digitizing tools
- For the user that wishes to create original embroidery designs
- For the user that wishes to customize and edit designs and lettering
- For the user that wishes to work with designs from cards, disks, CDs, and downloaded from the Internet
- For the user that wishes to create designs automatically
- For the user that wants complete control and digitizing flexibility
- Includes the Cross Stitch, PhotoSnap, and BERNINA Quilter Programs
- Can use the Reader/Writer Box and Personal Design Cards
- Can use the Magic Box Plus and Magic Cards

Getting Started

artista & *aurora* **Embroidery Module Set Up**
- Turn machine OFF
    *(Note: **artista** 200E ONLY may start with machine ON)*
- Module Connection Cable
    - Stored on the bottom back edge of the module
    - Make sure the FLAT side of the cable is to the FRONT
- Attaching the Module
    - Place the module on the machine behind the free arm
    - Slide module on from left until lugs engage in base plate
- Removing Module
    - Turn machine OFF
        *(Note: **artista** 200E ONLY may leave machine ON)*
    - Remove cable plug from sewing/embroidery computer
    - Lift slightly and slide the module to the left

Prepare for Embroidery
- Presser Foot
    - Attach Embroidery Foot #15 or #26 to the machine (***artista***
      & ***aurora*** only)
- Needles
    - Use the proper needle for the thread and fabric being used
    - Insert a new needle at the beginning of each project
    - Needle should be in the highest position when attaching
      the hoop to prevent snagging fabric and/or bending needle
- Straight Stitch Plate (optional accessory for ***artista*** & ***aurora***)
    - Prevents flagging of fabric, resulting in improved stitching
- Bobbin
    - Use the Gold Latch Bobbin Case (***artista*** 185E & 200E),
      threading the "pigtail" for increased bobbin thread tension
    - Thread the "finger" of the bobbincase (***artista*** 165E &
      aurora 430E and 440E) if needed for increased bobbin

Notes

aurora 430E & 440E:
insert pages 10a-g,
*Editor Lite Quick Start,
Lettering Basics, and
Lettering Editing*

thread tension

Threading
- Thread machine wtih the presser foot up (this releases tension)
- Thread using either the horizontal or vertical spool pin
   - Horizontal spool pin is for use with cross-wound threads
      - match disc size to end of spool
      - smallest disc fits into the end of large cones/spools such as Isacord embroidery thread
   - Vertical spool pin is for use with stacked threads
      - also for some decorative threads (metallic threads)
      - use supplemental thread guide as needed to control problematic threads
- Multiple Spool Holder (optional; available for *Deco, artista* & *aurora*)
   - attaches to the back of the machine
   - holds up to 13 thread spools

Hooping Fabric
- Find the center of the fabric
- Separate the embroidery hoop sections
   - Loosen the screw. It should be loose enough that fabric and stabilizer both will EASILY fit into the hoop
- Embroidery Templates
   - Use to ensure that the motif is centered in the hoop
   - Each hoop has a corresponding template
   - When inserted correctly, "BERNINA" reads left to right, right side up
   - Template surface is marked in 1cm squares
   - Each template has cut-outs to facilitate transfer of markings to fabric
   - There are finger holes to facilitate easy removal of the small and medium hoop templates

Notes

- With the large oval and Mega hoop templates, special attachment clips facilitate easy removal
• Secure fabric/stabilizer in the hoop
    - Lay the outer hoop on a HARD, FLAT surface
    - (*Deco* 330 only: Place so the clamp lies off the edge of the surface and the hoop lies flat.)
    - Secure stabilizer to the back of the fabric by lightly spraying stabilizer with 505 temporary adhesive
    - Place fabric and stabilizer on a firm surface
    - Position template inside the inner hoop
    - Position inner hoop on fabric, aligning any markings
    - Grasping both inner hoop and fabric/stabilizer, insert them into the outer hoop, making sure that the arrows align at the edges of both the inner and outer hoops
    - DO NOT DISTORT THE FABRIC when tightening the screw on the hoop
    - Hooped fabric should be taut, but not stretched or distorted
    - Remove template before stitching

Attaching and Removing Hoop
    • When attaching hoops, be sure to seat the frame securely.
    • Release the clamp completely before removing the frame from

Notes

the machine

Adjusting Embroidery Hoop (*artista* only)
- This process calibrates the needle to the center of the hoop

- Only necessary once, as applies to all hoop sizes

artista **165E & 185E**
Make sure the module is properly attached to machine.

Touch the external Setup button.

Select the Service option; select Adjustment of Hoop.

Insert embroidery template into the large hoop and attach hoop to module.

Touch "Check"; the hoop position will be read and the hoop will stop with needle positioned over center marking of hoop template.

If needle is not positioned directly over the center, use positioning arrows to make adjustments.

Touch OK to close screen; the hoop setting is now saved .

Touch Esc to leave Setup menu.

artista **200E**
Make sure the module is properly attached to machine.

Touch external Setup button.

Select the Embroidery Settings option.

Insert embroidery template into the large hoop and attach hoop to module.

Touch "Check"; hoop position will be read and the hoop will stop with needle positioned over center marking of hoop template.

If the needle is not positioned directly over the center, use the positioning arrows to make adjustments.

Touch OK; the hoop setting is now saved and you may touch Esc to leave this menu as well as the Setup menu.

Notes

Sewing Machine Needles

Along with thread, needles are very important to stitch formation. Many "mechanical" problems and damage to fabrics can be traced to a bent, damaged, or incorrect size or type needle. Approximately 60% of all needles made are discarded at some stage of production. When selecting the correct needle for any sewing project, consider the following:

Needle system – 130/705H
Needle point – to assure proper stitch formation and avoid fabric damage
Needle size – smaller for lightweight fabrics; larger for heavier fabrics

If the needle is:
Too Small – the thread can't stay in the groove to form a loop to be picked up by the hook point
Bent – thread loop forms too far away from hook point; hook can't enter loop to form stitch
Blunt – needle will not pierce fabric;no thread loop forms to make a stitch

Which Needle?

Not all needles are appropriate for use in embroidery machines. As with all sewing projects, needle choice is detemined by the fabric, thread, and application. For most embroidery, an Organ needle or Embroidery needle is the best choice.

Occasionally, other needles may be recommended for specially digitized techniques, such as a Wing needle heirloom embroidery.

Need To Know

• Needle should be changed every 4-6 hours of regular sewing, or *after every 1-2 hours of embroidery stitching*. The needle is the most inexpensive part in your embroidery machine but is one of the most crucial for getting good results and keeping your machine running well. Don't let false economy keep you from doing what is best for your embroidery projects and your machine.

• European needles are chrome-plated through fabric easily.

• The selected thread should fit in the groove on the front of the needle. If it isn't protected by the groove, a needle with a larger groove should be used.

• Always make sure needles are fully inserted as high as possible, with the flat side to the back.

shank
(flat side to the back)

Parts of a Needle

groove
(on the front)

scarf
(on the back)

eye

point

Needle Size Conversion Chart

European vs. Domestic

European = Domestic	European = Domestic	
60 = 8	90 = 14	Regardless of the system,
70 = 10	100 = 16	the greater the number,
75 = 11	110 = 18	the larger the diameter
80 = 12	120 = 19	of the needle.

Needle	Size	Description
Ball Point	70-90	Has a rounded point. 70 for lingerie, nylon, jersey; 80 for T-shirt; 90 for sweatshirt fleece.
Stretch	70-90	A stretch needle has a more rounded point and a blue anti-cling coating which helps to prevent skipped stitches in knits and elastic. Sometimes used on Ultrasuede®, vinyl, and plastic.
Stretch Double	2.5/75 4.0/75	Two ballpoint needles on one shank; each needle has a large scarf. Used for hemming and for stitching on knit fabric.
Universal	60-110	A compromise between a sharp and a ballpoint needle; can be used on both wovens and knits. 60 – very fine batiste 70 – broadcloth 80 – trigger and gabardine 90 – denim and twill 100 & 110 – canvas
Double Universal	1.6/70- 8.0/100	Two needles attached to one shank. Used for pintucks, hems, and decorative work.
Triple (Drilling)	3.0/90	Three needles attached to one shank. Used to create mock smocking and other decorative effects.
Jeans	70-90	Has a sharp point and a shaft that is less prone to flex. The sharpness of the needles makes it better for use on denim and woven fabrics where a clean stitch is desired.
Jeans Double	4.0/100	Two Jeans needles attached to one shank. For topstitching on denim with heavy thread; can also be used for decorative stitching with metallic thread.
Microtex Sharp (Schmetz) Microfiber (Lammertz)	60-90	A sharp point with a thin shaft. 60-90 corresponds to the weight of the fabric; as the fabric gets heavier or denser, the number is higher. Specially designed for microfiber fabrics.
Quilting	assort'd (75 & 90)	The thin, tapered point of this needle causes less damage to fabric when seaming and cross seaming.
Topstitch	80-100	A sharp point with a large eye and deep groove. For use with heavier fabrics – the large groove cradles heavier threads.
Embroidery (Schmetz) Metafil (Lammertz)	75-90	Sharp needle with a large eye and groove; also has a coating and a larger scarf. For use with embroidery thread – prevents shredding of rayon or metallic threads. Two threads may be used through the eye of an 80 or 90 needle.
Metafil Double	3.0/75	Two Metafil needles attached to one shaft; for double needle work with embroidery threads.
Wing	100-120	Sharp pointed needle with a non-cutting wedge of metal on each side. Needle makes a hole in the fabric without cutting the threads of the fabric. Used for decorative and heirloom work, such as hemstitching. Works best on natural fibers or on the bias.
Double Wing	100	One regular needle and one wing needle attached to a single shaft. Use the same as a Wing; makes one large and one regular hole.
Leather	80-90	Point is a sharp cutting wedge. Used for leather only. Not for vinyl or simulated leathers.

Thread

Poor quality or the wrong type of thread can cause poor stitches on any machine. Thread passes through the eye of the needle approximately 37 times in a "seesaw" action before it forms a single stitch. Poor quality thread results in crooked and looped stitches, uneven fills, misaligned outlines, frayed thread, and/or needle breakage. To achieve quality stitches, an embroidery machine needs five things: correct thread, correct stabilizer, correct hooping, correct needle, and properly adjusted thread tensions.

Several factors such as the fiber, twist, ply, finish, and size of thread must be considered for use with today's fabrics for fine stitches.

Staple – refers to the length of fibers used to twist together to form a single ply. Domestic thread fiber lengths are usually 1½" to 2½" long while European threads use 5½" to 6½" lengths.

Ply – number of strands twisted together to make a single thread.

Roll – the tendency of thread to roll to the right or left during stitching, causing the stitch to appear slightly crooked. Poor quality threads are more likely to roll.

Twist – the crimping of fibers which causes them to interlock firmly into a single ply. Thread should not untwist during stitching. This will cause skipped stitches, thread breakage, crooked stitches, and weak spots in seams.
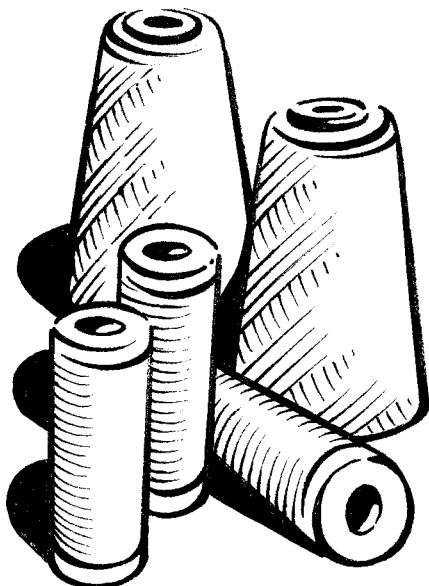
Right twist – most American threads are twisted to the right, causing some rolling. This gives average stitch quality.

Left twist – Most commercial and imported threads are twisted to the left, giving better than average stitch quality. Left twist resists rolling and makes a larger loop for the hook point to enter, reducing skipped stitches.

Notes

Embroidery Thread

The popularity of embroidery and wearable art embellishments has necessitated the creation and marketing of many new thread types, such as shiny polyesters, rayons and metallics. High quality threads made in West Germany generally have a left twist; Mettler and Isacord threads are also left twist. To test the twist of a thread: while holding the spool in the left hand, roll the strand of thread towards you with one thumb. Left twist will tighten, right twist will loosen.

Fiber – refers to the type of material used to produce the thread. Some commonly used embroidery and embellishment threads:

- *Polyester 2 ply embroidery thread* – Isacord and Polysheen embroidery thread – excellent for embroidery, very abrasion resistant.
- *Acrylic embroidery thread* – excellent for embroidery, abrasion resistant, available in variegated colors.
- *Cotton 2 ply embroidery thread* – such as Mettler 60/2 – excellent for French Machine Sewing, delicate machine embroidery, piecing and darning. Has a matte finish with a slight sheen.
- *Cotton 2 ply embroidery thread* – such as Mettler 30/2 – loose twist for a soft, shiny look in machine embroidery, applique, and buttonholes. Thicker than most embroidery threads, 30 wt cotton may require that the stitch density be decreased slightly. Available in variegated colors.
- *Rayon* – available in 30 and 40 weight – a lustrous embroidery thread. Weaker than cotton, it is used for decorative work only. Available in variegated colors.

Thread Storage

Thread does wear out and should be stored with care to keep it usable as long as possible. Extreme moisture may cause thread to swell while very dry conditions can leave it dry and brittle as it ages. Store thread in a covered place (thread box with a lid, cabinet with doors, or drawers that close) if possible to keep it dust-free.

Be wary of old spools of thread recovered from Grandma's sewing box. The fibers may be so weak and brittle that even if it sews without breaking, it may be so unstable that the garment or project will not hold together and the life of the project may be considerably shortened.

Notes

Stabilizers & Interfacings

Tear-Away Stabilizer: The most commonly used type of stabilizer, designed to provide *temporary* support of stitching. Placed on the wrong side of the project and carefully pulled away once stitching is complete. Available in three weights – heavy, medium, and light. Multiple lightweight layers may be preferable to one heavy layer, as they are easier to remove. The Hydro-Stick version, available in lightweight and heavy-weight tear-away, has adhesive on one side and is applied with water for a secure bond and a high degree of stabilization for very dense and/or intricate designs. Also available: Smooth Touch Tear-Away and Ultra Clean & Tear.

Cut-Away Stabilizer: The most widely used stabilizer in the commercial market. Does not break down under dense stitching, due to the high fiber – rather than paper – content. Excess stabilizer is trimmed away after stitching (leave approximately ¼" of stabilizer around the edges). A Hydro-Stick version of heavyweight cut-away is also available.

Web/Poly-Mesh Type Stabilizer: A specially formulated cut-away stabilizer developed for use behind lightweight or light-colored fabrics. Available in fusible or non-fusible versions.

Water-Soluble Stabilizer: Used for backing and topping, in single or multiple layers. Available in several weights: Aqua Film Universal Weight, Aqua Film Extra Weight, Badgemaster (very heavy), and Aqua Mesh Wash Away. Excellent for decorative stitching and cutwork as there are no remnants of stabilizer left after removal (it dissolves). As a topping, it keeps stitches from being lost in heavily napped fabrics such as velvet and corduroy.

Iron-On Tear-Away Stabilizer: A non-woven product similar to paper. Perfect for knits, this tear-away stabilizer is temporarily bonded to the fabric, inhibiting the tendency of the material to stretch.

Heat Removable Stabilizer: Woven from strands of fiber that are burned away at a low temperature, heat removable stabilizers are perfect for heirloom stitchery.

Liquid/Spray Stabilizers: Wonderful for sheer fabrics from which all stabilizer must be removed after stitching, these products are painted or sprayed onto the fabric. Several light applications are preferable to one heavy layer.

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Knit Fusible Interfacing: A very lightweight, flexible interfacing sometimes used in addition to or instead of a stabilizer, it gives permanent support (as an underlining) to a fabric. Perfect for plackets, garment edges, under buttonholes, and anywhere extra body and stability are needed. Can also be used to stabilize decorative stitch work.

Woven Fusible Interfacing: This interfacing is sometimes used in addition to or instead of a stabilizer, it gives permanent support (as an underlining) to a fabric. Generally cut on the bias to provide better drape. Gives a firmer hand or finish than knit or non-woven interfacings. Used for lapels, facings, and anywhere a great deal of extra body and stability are needed.

Sewing & Craft Sprays

202 Spray and Fix: This temporary adhesive is a "light version of 505 temporary spray adhesive. Good for holding tissue paper pattern pieces in place, letting you reposition them as needed. 202 can be used on paper patterns or templates of any kind and will adhere to most surfaces including wood.

404 Spray and Fix*: A repositionable craft adhesive, this spray turns fabric or papers into "sticky notes". The adhesive will not transfer onto other surfaces. Acid-free, it can be applied to the back of photographs and is great for scrap-bookers and crafters.

505 Temporary Spray Adhesive: Great for basting or holding two layers of fabric and/or batting together, this adhesive will bond for up to 6 months. The "stickiness" will dissipate when exposed to air and will be completely gone within 24-48 hours. Works well for securing "hard-to-hoop" items such as collars and cuffs to hooped stabilizer for embroidering.

606 Fusible Spray: A permanent spray, 606 is used to make any fabric or stabilizer a fusible. Apply to the wrong side of the fabric to be fused, using several light coats, rather than one heavy coating. The more coats used, the stronger the bond will be.

Fabric Shield: Used to protect fabrics from dust, dirt, grease, and oil, this spray is water repellent and can be laundered and dry-cleaned.

Stitching A Motif

Deco 330
Select indicated motif.

Stitch. *Note: At the end of color one, the thread is automatically cut and a message appears reminding you to thread the next color.*

When the motif is complete, a message will appear indicating that the stitching is finished.

Press the carriage return key after finishing the last section to return the carriage to the stored position.

artista 165E
Select the Module symbol to access designs in the module.

Select indicated design.

Stitch. *Note: At the end of color one, the machine automatically stops and a message appears reminding you to cut the thread and rethread for the next color.*

When the motif is complete, a message will appear indicating that the stitching is finished.

artista 185E
Select the Module symbol to access designs in the module.

Select design #16 (blue floral spray).

Stitch. *Note: At the end of color one, the thread is automatically cut and a message appears reminding you to thread the next color.*

When the motif is complete, a message will appear indicating that the stitching is finished.

artista 200E
Select the Module symbol to access designs in the module.

Select Spring>floral wreath. Touch OK to go to the Embroidery Ready screen.

Stitch. *Note: At the end of color one, the thread is automatically cut and a message appears reminding you to thread the next color.*

When the motif is complete, a message will appear indicating that the stitching is finished.

Notes

aurora 430E & 440E: insert page 20a-21a, *Stitching a Motif*

Embroidery Motif
Deco **330**
#36 - floral swag

artista **165E**
#13 - floral spray

artista **185E**
#16 - blue floral spray

artista **200E**
#5 - floral wreath

Fabric & Stabilizer
8" x 10" rectangle

Stitching A Motif Sample

Deco 330

artista 165E

artista 185E

artista 200E

Monochrome Embroidery

Deco 330
n/a

artista 165E
Select indicated motif again.

Select the Single/Multi color motif symbol (paintbrush icon). With this function engaged, the entire motif will be completed in one color with no stops or thread cuts.

Stitch.

Notes

aurora 430E & 440E:
insert page 22a-23a,
Monochrome Embroidery

artista 185E
Select indicated motif again.

Select the Single/Multi color motif symbol (paintbrush icon). With this function engaged, the entire motif will be completed in one color with no stops or thread cuts.

Stitch.

artista 200E
Select indicated motif again.

Touch OK to go to the Embroidery Ready screen.

Select the Single/Multi color motif symbol (paintbrush icon). With this function engaged, the entire motif will be completed in one color with no stops or thread cuts.

Stitch.

Embroidery Motif
Deco 330
n/a

artista 165E
#13 - floral spray

artista 185E
#16 - blue floral spray

artista 200E
#5 - floral wreath

Fabric & Stabilizer
8" x 10" rectangle

Monochrome Embroidery Sample

Deco 330

n/a

*Note: To achieve the same effect
on the Deco 330, use the same thread
color for all color changes.*

artista 165E

artista 185E

artista 200E

Customizing Thread Color (*aurora & artista* 200E only)

Notes

artista **200E**
Using the Medium hoop, hoop the fabric and stabilizer.

Select the floral motif again. The motif opens up in the Edit 1 screen. Touch the Color Number symbol in the lower left corner of the screen; the Color Motif display appears.

Touch the Color Information bar. A dialog box opens with Change thread color/brand information. In this box, the current thread color and/or brand of thread can be changed.

Select a brand of thread, selecting from Isacord, Madeira, Mettler Silky Sheen, Sulky, and Mettler Poly Sheen.

Assign a new shade of green to the design and touch OK.

The Edit 1 screen reappears. Use the right hand scroll arrow to move to the second color and repeat the process changing the color of the flowers.

Repeat a third time and change the color of the flower centers.

Embroider your newly colored design. If you wanted, this customized motif could be saved with your new color settings for later use. (Saving of Motifs will be covered on page 42, Saving & Deleting Embroidery Motifs.)

Trim and mount the sample.

aurora 430E & 440E:
insert page 24a-25a,
Customizing Thread Color

Embroidery Motif
Deco **330**
n/a

artista **165E**
n/a

artista **185E**
n/a

artista **200E**
#5 - floral wreath

Fabric & Stabilizer
8" x 10" rectangle

Customizing Thread Color Sample

Deco 330

artista 165E

n/a

n/a

artista 185E

artista 200E

n/a

Duplicating & Rescaling Motifs (*artista* only)

Notes

artista 165E & 185E:
Hoop fabric and stabilzier using the Large Hoop (165E) or Large Oval Hoop (185E).

Select the indicated motif. Select Layout 1. Duplicate the motif by touching the Temporary Save icon and then one of the positioning arrows. There are now two copies of the motif on the screen. The first one is "grayed out" and the top one is highlighted. The highlighted motif is the active one.

Select the Layout 2 symbol. Touch the Move Motif symbol and move the active motif toward the top of the hoop.

Using the Retrieve function, activate the second motif and move it toward the lower end of the hoop.

Touch the Rescale Motif symbol; increase the size of the lower motif to 180%. Touch OK.

Embroider the motif. When the motif is complete, trim and mount the sample. Note the stitch count of the design for later reference.

artista 200E:
Hoop fabric and stabilzier in the Large Oval Hoop.

Select indicated motif; it opens in the Edit 1 screen. Select the Duplicate Motif symbol. There are now two copies of the motif on the screen. The first one is gray and the top one is in color. The color motif is the active one.

Touch the To Next Page - Edit 2 symbol. Touch the Move Motif symbol and move the active motif toward the top of the hoop.

Using the Retrieve function, activate the 2nd motif and move it toward the lower end of the hoop.

Touch the Rescale Motif Proportionally icon; increase the lower motif size to 180%. Touch OK.

A dialog box asks if you wish to recalculate the stitch count or simply resize the motif without recalculating the stitch density. Select the "recalculate" option. *Note: The "resize" option simply takes the existing design and spreads the stitches out to fit the new size parameters of a design.*

Embroider the motif. When the motif is complete, trim and mount the sample. Note the stitch count of the design for later reference.

Embroidery Motif
Deco **330**
n/a

artista **165E**
#10 - floral spray

artista **185E**
#20 - floral spray

artista **200E**
#4 - daisy

Fabric & Stabilizer
8" x 10" rectangle

Duplicating & Rescaling Motifs Sample

Deco 330

n/a

artista 165E

artista 185E
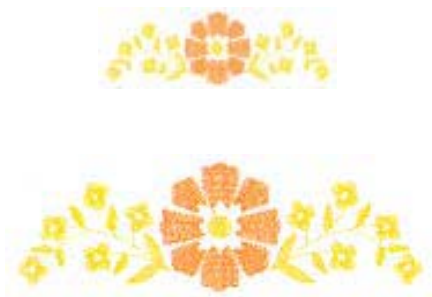
artista 200E

Proportional Resizing of Motifs (*artista* 200 only)

Notes

***artista* 200E only**
The design from the previous exercise should still be on the screen.

Touch OK. The dialog box opens asking if you wish to recalculate the stitch count or simply resize the motif. This time, select the "resize" option.

Embroider the resized motif. When the motif is complete, trim and mount the sample. Note the stitch count of the design for later reference.

Notice the dramatic difference between the "resized" sample and the "recalculated" sample from the previous exercise. Your ***artista* 200E** added stitches the "recalculated" motif to make the larger Little Pansies motif look as nice as the original.

Embroidery Motif
Deco **330**
n/a

artista **165E**
n/a

artista **185E**
n/a

artista **200E**
#4 - daisy

Fabric & Stabilizer
8" x 10" rectangle

Proportional Resizing of Motifs Sample

Deco 330

n/a

artista 165E

n/a

artista 185E

n/a

artista 200E

Rotating Designs

***Deco* 330**
The Deco 330 rotates designs in clockwise increments of 45º (1x = 45º, 2x = 90º, 3x = 135º....)

Select indicated motif. Select Editing tab. Use the positioning arrows or the touch screen to move the motif up and to the right.

Select the Pattern selection tab. Select the motif again. Touch Rotate 45º. Move design to right.

Select Pattern selection tab. Select motif again. Touch Rotate 45º two times. Move design to left and down.

Embroider. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Trim sample, then mount it on the following page.

***artista* 185E**
*The **artista** 185E rotates designs in clockwise and counterclockwise increments of 5º.*

Select motif. Select Layout 1; move design to upper right corner of hoop. Touch Temporary Save.

Touch Center; a duplicate of the motif appears in center of screen. Move motif up and slightly to the right; rotate 25º clockwise. Touch Temporary Save.

Continue to duplicate the motif, repositioning and rotating to 45º, 70º, and 90º. Using Retrieve and Show functions, use arrows to arrange as shown. *Note: Corners of boxes will overlap.* Touch OK to process design.

Embroider and trim sample, then mount it on the following page.

***artista* 165E**
*The **artista** 165E rotates designs in clockwise and counterclockwise increments of 5º.*

Select motif. Select Layout 1; move design to upper right corner of hoop. Touch Temporary Save.

Touch Center; a duplicate of the motif appears in center of screen. Move motif up and slightly to the right; rotate 25º clockwise. Touch Temporary Save.

Continue to duplicate the motif, repositioning and rotating to 45º, 70º, and 90º. Using Retrieve and Show functions, use arrows to arrange as shown. *Note: Corners of boxes will overlap.* Touch OK to process design.

Embroider and trim sample, then mount it on the following page.

***artista* 200E**
*The **artista** 200E rotates designs in clockwise and counterclock-wise increments of 1º.*

Select motif. Select Edit 2>Rotate. Using Stitch Length & Width knobs, move design to upper right corner.

Go to Edit 1. With motif selected, touch Duplicate. Rotate 22º, then move up & slightly to right.

Continue to duplicate and rotate motifs to 45º, 77º, and 90º. Using Retrieve and Show functions, arrange as shown. Touch OK.

Embroider and trim sample, then mount it on the following page.

Notes

aurora 430E & 440E: insert page 30a-31a, *Rotating Designs*

Embroidery Motif
***Deco* 330**
#35 - floral border

***artista* 165E**
#10 - floral spray

***artista* 185E**
#16 - blue floral spray

***artista* 200E**
#14 - little wild rose

Fabric & Stabilizer
8" x 10" rectangle

Rotating Designs Sample

Deco 330

artista 165E

artista 185E

artista 200E

Proportional Resizing/Rescaling & Rotation

Deco **330**
Deco 330 designs can be resized in increments of 10%, from 90% to 120%).

Select indicated motif. Selet Editing tab. Select Resize key. Touch the minus (-) key one time. Touch OK. Touch Rotate 45º one time. Use the positioning arrows or the touch screen to move design up and to the right.

Select Pattern selection tab. Select the motif again. Move to lower left. Touch Resize key. Touch the plus (+) key two times. Touch OK; touch OK.

Embroidery. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Notes

aurora 430E & 440E: insert page 32a-33a, *Proportional Rescaling & Rotation*

artista **165E & 185E**
Select the indicated motif. Select Layout 1. Touch Temporary Save and one of the positioning arrows. There are now two copies of the motif on the screen. Remember, highlighted motif is the active one.

Touch the Rescale Motif symbol and decrease the size of the active motif to 70%. Touch the Move Motif symbol and move the motif toward the top of the hoop.

Touch the Retrieve function until only the larger motif is active. Move the larger motif toward the bottom of the hoop. Select the Rotate Motif symbol. Rotation can be accomplished five degrees at a time or in 45° increments.

Rotate the large motif counter-clockwise until the symbol reads 325°. Retrieve only the smaller motif; rotate clockwise to 15°. Using the position arrows, move the arrangement to a pleasing central location within the hoop. Touch OK.

When processing is complete, embroider. Trim and mount the sample.

artista **200E**
Select the indicated motif. The motif opens in the Edit 1 screen. Select the Large Oval Hoop.

Select the Duplicate Motif symbol. There are now two copies of the motif on the screen. Remember, the color motif is the active one.

Go to Edit 2. Touch the Rescale Motif Proportionally symbol and decrease the size of the "active" motif to 70%. Touch the Move Motif symbol and move the motif toward the top of the hoop.

Touch the Retrieve function until only the larger motif is "active". Touch the Move Motif symbol and move the larger motif toward the bottom of the hoop. Select the Rotate Motif symbol. Rotation can be accomplished one degree at a time or in 45° increments.

Rotate the large motif counter-clockwise until the symbol reads -32°. Retrieve only the smaller motif; rotate clockwise to +16° . Using the Move Motif option, move the arrangement to a pleasing central location within the hoop. Touch OK.

Choose the Recalculation option. When processing is complete, embroider. Trim and mount the sample.

Embroidery Motif
Deco **330**
#15 - butterfly

artista **165E**
#16 - jingle bells

artista **185E**
#15 - dragonfly

artista **200E**
#2 - butterfly

Fabric & Stabilizer
8" x 10" rectangle

Proportional Resizing/Rescaling & Rotation Sample

Deco 330

artista 165E

artista 185E

artista 200E

Stretching Designs
(*aurora* & *artista* only)

artista **165E**
Select indicated motif. Select Layout 1, then Temporary Save.

Touch one of the layout arrows; a duplicate of the motif is placed exactly on top of original. Touch Layout 2; increase height of motif to 140%. Touch Layout 1; move motif to the upper right corner. Touch Temporary Save.

Touch a layout arrow to duplicate the motif. Touch Layout 2; return height of design to 100%, then increase width to 140%. *Note: It may be necessary to move motif away from edge of embroidery field before enlarging.* Touch Layout 1; move motif to lower left corner. Touch Temporary Save. Touch OK to process design.

Embroider and trim sample, then mount it on the following page.

artista **185E**
Select indicated motif. Select Layout 1, then Temporary Save.

Touch one of the layout arrows; a duplicate of the motif is placed exactly on top of original. Touch Layout 2; increase height of motif to 140%. Touch Layout 1; move motif to the upper right corner. Touch Temporary Save.

Touch a layout arrow to duplicate the motif. Touch Layout 2; return height of design to 100%, then increase width to 140%. Touch Layout 1; move motif to lower left corner. Touch Temporary Save. Touch OK to process design.

Embroider and trim sample, then mount it on the following page.

artista **200E**
Select indicated motif. Select Edit 1, then Temporary Save.

Touch the Duplicate icon to copy the design. Touch Edit 2; select the Adjust Height/Width icon. Increase height of motif to 140%. Move motif to the upper right corner. Return to Edit 1; touch Temporary Save.

Duplicate the design again. Touch Edit 2; return height of design to 100%, then increase width to 140%. Move motif to lower left corner. Return to Edit 1; touch Temporary Save. Touch OK to process design.

Embroider and trim sample, then

Notes

aurora 430E & 440E: insert page 34a-35a, *Stretching/Skewing Designs*

Embroidery Motif
Deco **330**
n/a

artista **165E**
#16 - acorn & oak leaves

artista **185E**
#15 - dragonfly

artista **200E**
#2 - butterfly

Fabric & Stabilizer
8" x 10" rectangle
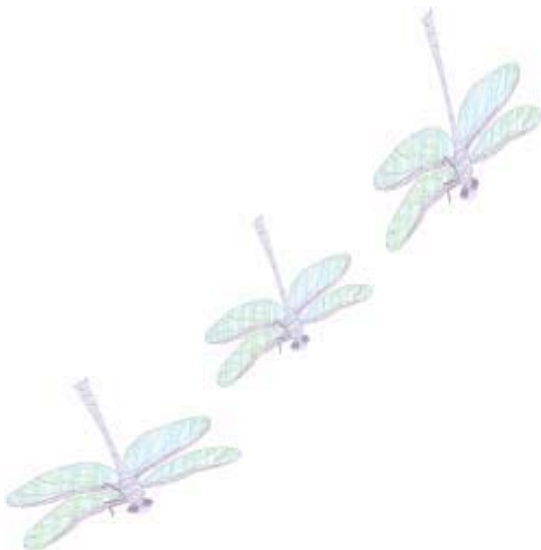
Stretching Designs Sample
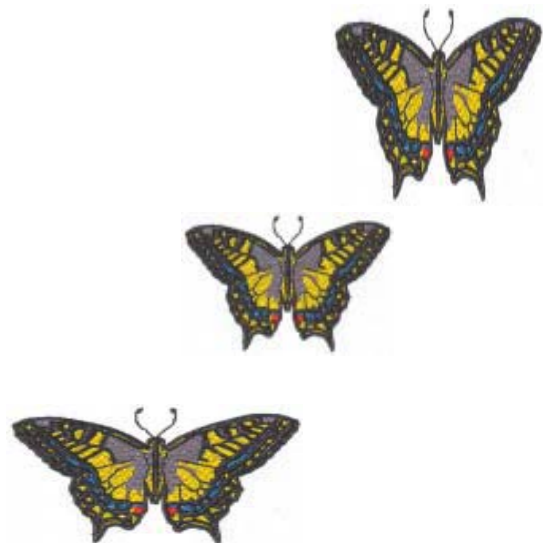
Deco 330

n/a

artista 165E

artista 185E

artista 200E

Vertical Mirror Image

Deco 330

Select the indicated motif. Select the Editing tab. Use the positioning arrows to move the motif to the left.

Select Pattern selection tab. Select motif again. Touch Vertical Mirror Image. Use the positioning arrows to move the motif to the right.

Embroider. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Trim; mount the sample on the following page.

artista 185E

Select the indicated motif. Select Layout 1. Touch Temporary Save and a positioning arrow. There are now two copies of the motif on the screen. The active motif is high-lighted.

Touch the Vertical Mirror Image (left/right) symbol. The active motif flips. Move it to the left side of the hoop.

Retrieve the other motif and move it to the right side of the hoop. Touch OK.

Stitch, trim and mount the sample.

artista 165E

Select the indicated motif. Select Layout 1. Touch Temporary Save and a positioning arrow. There are now two copies of the motif on the screen. The active motif is high-lighted.

Touch the Vertical Mirror Image (left/right) symbol. The active motif flips. Move it to the left side of the hoop.

Retrieve the other motif and move it to the right side of the hoop. Touch OK.

Stitch, trim and mount the sample.

artista 200E

Select the indicated motif. In Edit 1, select the Medium hoop. Select the Rescale function and decrease the size to 75%. Select the Select the Duplicate Motif symbol. There are now two motifs on the screen.

Go to Edit 2. Touch the Vertical Mirror Image (left/right) symbol. The active motif is flipped. Move it to the left side of the hoop.

Retrieve the other motif and move it to the right side of the hoop. Touch OK.

Stitch, trim and mount the sample.

Notes

aurora 430E & 440E: insert page 36a-37a, *Horizontal Mirror Image*

Note: Horizontal Mirror Image on the **aurora** *= Vertical Mirror Image on the* **artista** *and Deco.*

Embroidery Motif
Deco 330
#14 - seahorse

artista 165E
#19 - snowman

artista 185E
#33 - flowers

artista 200E
#8 - grape leaf

Fabric & Stabilizer
8" x 10" rectangle

Vertical Mirror Image Sample

Deco 330

artista 165E

artista 185E

artista 200E

Horizontal Mirror Image
(*Deco* 330, *aurora* & *artista* 200E only)

Deco 330
Select indicated motif. Select Editing tab. Use the positioning arrows to move the motif down.

Select Pattern selection tab. Select motif again. Touch Horizontal Mirror Image. Use the positioning arrows to move the motif up.

Embroider. Press the carriage return after finishing the last section to return the carriage to the stored position.

Trim; mount on following page.

artista 165E
n/a

artista 185E
n/a

artista 200E
Select the indicated motif.

In Edit 1, select the Medium hoop.

Select Duplicate Motif symbol. There are now two copies of the motif on the screen.

Go to Edit 2. Touch Horizontal Mirror Image (up/down) symbol. The active motif is flipped. Move it to the upper end of the hoop.

Retrieve the other motif and move it to the lower end of the hoop. Touch OK.

Stitch, trim and mount sample.

Notes

aurora 430E & 440E: insert page 36a-37a, *Vertical Mirror Image*

Note: Vertical Mirror Image on the **aurora** *= Horizontal Mirror Image on the* **artista** *and Deco.*

Embroidery Motif
Deco 330
#19 - fancy border

artista 165E
n/a

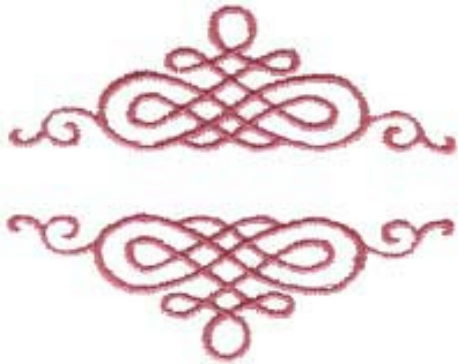**artista 185E**
n/a

artista 200E
#14 - little wild rose

Fabric & Stabilizer
8" x 10" rectangle

Horizontal Mirror Image Sample

Deco 330

artista 165E

n/a

artista 185E

n/a

artista 200E

Using Embroidery Cards

Deco 330
Insert desired embroidery card into slot on right side of embroidery machine. Select Design Card tab. Scroll through desings and select desired motif.

Embroider and trim sample. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Trim and mount sample.

artista 165E
Insert desired embroidery card into slot on left side of embroidery module.

Touch embroidery card icon (teddy bear). Scroll through designs and select desired motif.

In Layout 1, touch OK to digitize design.

Stitch, trim, and mount sample.

artista 185E
Insert desired embroidery card into slot on left side of embroidery module.

Touch embroidery card icon (teddy bear) motif. Select desired motif.

In Layout 1, touch OK to digitize design.

Stitch, trim, and mount sample.

artista 200E
Insert desired embroidery card into slot on right side of sewing machine. *Note: This slot is also used for the artista 200 modem.*

Touch embroidery card icon (teddy bear) motif. Select desired motif.

Touch OK to digitize design.

Stitch, trim, and mount sample.

Notes

aurora 430E & 440E: Embroidery collections on cards may be accessed using the Mini Magic Box.

Embroidery Motif
Deco 330
any card design
(sample: Studio BERNINA® Fun with Bears by Mary Ann June Collection)

artista 165E
any card design
(sample: Studio BERNINA® Winter Holiday with Stephanie Stouffer Collection)

artista 185E
any card design
(sample: Studio BERNINA® Cutwork & Crewel by Iris Lee Collection)

artista 200E
any card design
(sample: Studio BERNINA® Fantastic Felines by Laurel Burch Collection)

Using Embroidery Cards Sample

Deco 330

artista 165E

artista 185E

artista 200E

Using an Embroidery CD
(*artista* 200E only)

***artista* 200E only**
Connect the BERNINA Mini CD to the *artista* 200E.

Insert design CD into the CD Reader. Select the Additional Designs icon. Scroll through the designs and select #42 - Violets. Touch the Add Motif button.

Select the Additional Designs tab. Select #41 - Lily.

Select Edit 2. Select the Move Motif symbol and move the Lily to the left of the Violets.

Select Edit 1; select the Duplicate symbol. Select Edit 2: touch the Vertical Mirror Image symbol to reverse the duplicated Lily. Move the second Lily to the right of the Violets.

Touch the Retrieve icon until all three flowers are selected. Rotate the grouping 90º by touching the Rotation symbol two times. Touch OK.

Embroidery, trim and mount the sample.

Notes

aurora 430E & 440E: Embroidery collections on CDs may be accessed through the Editor Lite Embroidery Software; simply select the CD drive instead of the My Designs folder.

***artista* 200 CD Reader**
Microsoft® CE.NET gives the artista 200 the ability to have both a USB client port and a USB host port.

Client Port
Enables your *artista* to receive instructions from your PC and BERNINA embroidery software.

Host Port
Allows the *artista* 200 to give direction to a peripheral such as the BERNINA® CE-R drive and retrieve .ART files from BERNINA® design CDs and OESD "Enhanced for *artista*" design CDs.

CD Sample

Deco 330

n/a

artista 165E

n/a

artista 185E

n/a

artista 200E

Saving & Deleting Embroidery Motifs

After customizing an embroidery motif or creating a combination that you want to be able to quickly access and use again, follow these steps. (For these exercises, use the combination from the previous exercise.)

Notes

Deco 330
Saving a Motif to Machine
Select Editing tab. Touch Save File Key. Touch File Name key to assign file name. Key in file name. Touch OK; touch OK.

Saving a Motif to a Personal Design Card
Select Editing tab. Touch Save File Key. Touch Built in/Card key to toggle to the Personal Design Card. Touch File Name key to assign file name. Key in file name. Touch OK; touch OK.

Deleting a Motif
Select Editing tab. Touch Delete key symbol (trash can).

Retrieving a Saved Motif
Select Pattern selection tob. Select Open File key. Touch Built in/Card key to toggle between Built in motifs and motifs on the PDC. Use arrow keys to select desired motif. Touch OK.

artista 165E & 185E
Saving a Motif
Touch OK to return to the Ready menu.

Select the purple "mem" button *on the sewing machine*. A screen appears that allows you to save your motif to the sewing/embroidery computer or to an *artista* Personal Design card.

Select the Embroidery Computer symbol. Select one of the empty boxes on the screen; select "store". Touch OK to exit.

Deleting a Motif
Select the purple "mem" button *on the sewing machine*. Touch the embroidery motif you wish to delete. Touch the Delete icon (trash can).

artista 200E
Saving a Motif
Go to Edit 1. Select the Save icon (floppy disc). A screen appears that allows you to save your motif to the sewing/embroidery computer or to an *artista* 200E Personal Design card.

Select the Embroidery computer symbol. Your motif combination is shown as Untitled on the screen. Touch the picture of your motif.

A "keyboard" screen appears; input a name for your creation. *Note: Upper and lower case letters are available as well as a variety of numbers and symbols.* After naming your motif, touch OK. The new combination opens up in the Edit screen.

Deleting a Motif
In the Edit 1 screen, select New Motif. Select the My Designs folder. Select the Help symbol. Touch the embroidery motif you wish to delete. An information screen appears, listing Design Information.

Touch the Delete symbol (trash can). A Delete Design screen appears that gives the option to ONLY delete the selected design OR delete the entire contents of the selected folder.

Select the Delete design ONLY option. One more dialog box appears, asking if you are sure you want to delete the selected motif. Confirm by selecting "yes". The previously saved motif is now deleted.

Formatting the Personal Design Card (Deco 300 only)
Formatting the Personal Design Card (PDC) allows designs to be saved and transferred from the PC to the Deco 330. Note: The Deco 330 will read only expanded (.exp) format designs.

Insert the PDC into the slot on the side of the Deco 330. Select the Mode key. Select Set Up and page forward until "Format Card" appears. Touch "Format Card". *Note: All designs previously saved to PDC* **will be erased**.

If using BERNINA embroidery software, the card will automatically be formatted when a design is written to the PDC, and the design will automatically be converted to .exp format. *Note: All designs previously saved to PDC* **will remain on the card**.

Embroidery Beginnings Shopping List

❑ Embroidery Collections
     ❑ _____
     ❑ _____
     ❑ _____
     ❑ _____
     ❑ _____

Stabilizers
Cut-Away
     ❑ Heavyweight Cut-Away
     ❑ Hydro-Stick Cut-Away
     ❑ Cut-Away Poly-Mesh
     ❑ Fusible Poly-Mesh
Tear-Away
     ❑ Lightweight Tear-Away
     ❑ Smooth Touch Tear-Away
     ❑ Medium Weight Tear-Away
     ❑ Hydro-Stick Tear-Away
     ❑ Ultra Clean & Tear
Water-Soluble
     ❑ Aqua Film Topping & Backing
     ❑ Badge Master
     ❑ Aqua Mesh
     ❑ Stabil Stick
Other
     ❑ Spray Starch
     ❑ Brush/Paint-On products
     ❑ Fusible Interfacing products
     ❑ 505 Temporary Spray Adhesive

❑ Embroidery Needles - mixed #75/90
❑ Organ Embroidery Needles
     ❑ #70/10 Sharps
     ❑ #80/12 Sharps
     ❑ #90/14 Sharps
     ❑ #70/10 Ballpoint
     ❑ #80/12 Ballpoint
     ❑ #90/14 Ballpoint

❑ *ABCs of Embroidery*
❑ *A Touch of Artistry I*
❑ ***artista*** *Sampler*
❑ *Seasons of Artistry*
❑ *Through the Needle magazine*

❑ Isacord Embroidery Threads
     ❑ color _____
     ❑ color _____
     ❑ color _____
     ❑ color _____

❑ Yenmet Metallic Embroidery Threads
     ❑ color _____
     ❑ color _____

❑ Other Embroidery Threads
     ❑ color _____
     ❑ color _____

❑ Supplemental Thread guide
❑ Multiple Spool Holder
❑ Bobbin Thread
❑ BERNINA® Thread Box

Embroidery Hoops
     ❑ Free Arm Hoop (*Deco* 330)
     ❑ Round Hoop (*Deco* 330)
     ❑ Small Embroidery Hoop (*artista*)
     ❑ Medium Embroidery Hoop
     ❑ Large Embroidery Hoop
     ❑ Large Oval Hoop (185E/200E)
     ❑ Mega Hoop (200E)

Mastering Your
BERNINA®
Embroidery
Module/Machine

Owner's Workbook

Section B

Beyond the Basics

General Information:
Working with Alphabets & Text

Working with Alphabets
> *Deco* 330
> > 3 sizes
> > > Large - 30mm
> > > Medium - 20mm
> > > Small - 10mm
> > 2-letter and 3-letter monograms

> *artista* 165E/185E/200E - see chart
> > alphabets can be resized using on-screen editing functions

Notes

Alphabet	*Deco* 330	*aurora*	*artista* 165E	*artista* 185E	*artista* 200E
Alice	--	--	--	yes	yes
Anniversary	--	yes	--	--	--
Bamboo	--	--	--	yes	--
Blackboard	--	--	yes	yes	yes
Cheltenham	yes	--	--	--	--
Child's Play	--	--	--	--	yes
Cursive	--	--	--	--	yes
Drifter	--	--	yes	yes	yes
Gothic	yes	--	--	--	--
Guenivere	--	yes	--	--	--
King Charles	--	yes	--	--	yes
Lisa	--	--	yes	yes	yes
London	--	yes	--	--	yes
Script	yes	--	--	--	--
Swiss Block	yes	yes	yes	yes	yes
Varsity Block	--	--	--	--	yes
Zurich	--	--	yes	yes	--

Selecting, Adding, & Deleting Letters

Deco 330
*Selecting Character*s
Select Alphabet tab. Touch the Font key. Select font style. Touch the desired letters on the "keyboard" screen. Use the **A/a** icon to toggle between upper and lower case letters.

Deleting & Adding Characters
- to delete, move cursor under the letter/character; select the Delete icon (trash can)
- to add, move cursor to the right of the desired position; select the character and touch OK

artista 185E
Selecting Characters
Touch the desired letter on the "keyboard" screen; it will appear at the bottom of the screen. Use the arrows to cycle through upper and lower case letters, numbers, and punctuation selections.

Deleting & Adding Characters
- to delete, move the cursor to the right of the letter; select Del
- to add, move cursor to the right of the letter; select desired letter

artista 165E
Selecting Characters
Touch the desired letter on the "keyboard" screen; it will appear at the of the screen. Use the arrows to cycle through upper and lower case letters, numbers, and punctuation selections.

Deleting & Adding Characters
- to delete, move the cursor to the right of the letter; select Del
- to add, move cursor to the right of the letter; select desired letter

artista 200E
Selecting Characters
Touch the desired letter on the "keyboard" screen; it will appear at the top of the screen. Select the **ABC** icon for upper case letters; **abc1,2,3** for lower case letters and numbers; **@#** for other characters.

Deleting Characters
Select the <- arrow at the top right corner to delete characters in the text bar.

Touch the text bar to delete all the text in the bar.

Notes

aurora 430E & 440E: insert page 49a-b, *Selecting, Adding & Deleting Letters*

Saving Text Designs

Deco 330
Select Alphabet key. Touch the Font key. Select font style. Touch the desired letters on the "keyboard" screen. Use the A/a icon to toggle between upper and lower case letters. Touch OK.

Select the Editing tab. Touch the Save File key. Touch File Name key to assign file name. Key in file name. Touch OK; touch OK.

artista 165E
Saving to Machine Memory
Touch the external MEM (memory) button on the sewing machine. On screen, touch the Embroidery Module icon. Touch Store; the design is now saved in the **artista** memory. Touch OK.

Touch Menu; scroll through the designs until you find the one just stored. Select this design.

Saving to a Personal Design Card
Insert a Personal Design Card into the left side of the embroidery module.

Touch the external MEM button on the sewing machine. Touch the Teddy Bear (card) icon. Touch Store; the design is now stored on the Personal Design Card.

artista 185E
Saving to Machine Memory
Touch the external MEM (memory) button on the sewing machine. On screen, touch the Embroidery Module icon. Touch Store; the design is now saved in the **artista** memory. Touch OK.

Touch Menu; scroll through the designs until you find the one just stored. Select this design.

Saving to a Personal Design Card
Insert a Personal Design Card into the left side of the embroidery module.

Touch the external MEM button on the sewing machine. Touch the Teddy Bear (card) icon. Touch Store; the design is now stored on the Personal Design Card.

artista 200E
Saving to Machine Memory
Go to Edit 1. Touch Save; design appears as "Untitled".

Touch the **artista** computer button, then select a folder. (If no folder is selected, the design will be saved in My Designs.)

Select motif; keyboard appears. Enter name of design; touch OK.

Saving to a Personal Design Card
Go to Edit 1. Touch Save; design appears as "Untitled".

Insert Personal Design Card into slot in right side of machine. Select design card button.

Select design; enter the name of design; touch OK.

Notes

Notes

Alphabet Sampler

Deco 330
Select Alphabet tab. Select the first alphabet and program its name. Select the Editing tab. Move the word to the top of the hoop and center. Add the hames of the remaining alphabet styles. *Note: Cheltenham may need to be entered in small font size.*

Add the two-letter monogram without a crest, and the three-letter monogram with a crest.

Embroidery. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Trim and mount the sample.

artista 185E
Select the first alphabet and program its name. Touch OK. Go to Layout 1. Move the word to the top of the hoop. Use on-screen editing techniques to temporarily save this design.

Add the names of the remaining alphabet styles. *Note: Some of the alphabet styles may need to be reduced slightly to fit within the hoop; use the Show function to determine this.*

Touch OK to process the final design combination. Stitch, trim and mount the sample.

artista 165E
Select the first alphabet and program its name. Touch OK. Go to Layout 1. Move the word to the top of the hoop. Use on-screen editing techniques to temporarily save this design.

Add the names of the remaining alphabet styles. *Note: Some of the alphabet styles may need to be reduced slightly to fit within the hoop; use the Show function to do this.*

Touch OK to process the final design combination. Stitch, trim and mount the sample.

artista 200E
Select the first alphabet and program its name. Touch OK.

Select Large hoop. Go to Edit 2. Move the word to the top of the hoop.

Go to Edit 1. Use the Add Motif function to add the remaining alphabet styles. *Note: Some alphabets may need to be reduced to fit within the hoop.*

Touch OK to process the final design combination. Stitch, trim and mount the sample.

Notes

aurora 430E & 440E: insert pages 52a-53a, *Alphabet Sampler*

Monograms (Deco 330 only)
Monograms Without Crest: Select Alphabet tab. Touch the Font key. Select 2-letter or 3-letter Monogram. Select desired characters. Touch OK.

Monograms With Crest: Select Alphabet tab. Touch the Font key. Select 2-letter or 3-letter Monogram. Select Crest style. Select desired characters. Touch OK.

Embroidery Fonts
Deco 330
all alphabets, all sizes

artista 165E
all alphabets

artista 185E
all alphabets

artista 200E
all alphabets

Fabric & Stabilizer
8" x 10" rectangle

Alphabet Sampler

Deco 330

Gothic

Script

Cheltenham

AB ABC

artista 165E

Blackboard
Drifter
Lisa
Swiss Block
Zurich

artista 185E

Alice
Bamboo
Blackboard
Drifter
Lisa
Swiss Block
Zurich

artista 200E

Alice
Blackboard
Childs Play
Cursive
Drifter
King Charles
Lisa
London
Swiss Block
VARSITY

Manipulating Alphabets

Deco 330
Select indicated alphabet. Select medium size font. Select vertical lettering. Program the word **BERNINA**. Move the word to the right. Select the Alphabet tab. Program **Embroidery**. Touch OK.

Embroider sample. Press the carriage return key after finishing the last section to return the carriage to the stored position.

Trim and mount sample.

artista 165E/185E
Select indicated alphabet; program the word **BERNINA**, touch OK.

Select Layout 1; move lettering so the lower edge of the text box rests on the center of the grid line. Touch Temporary Save to store design.

A message appears indicating that selected text does not fit in the hoop, directing you to shrink the lettering or rotate the design.

Touch Layout 1; shrink letters to 90%, then touch Show. Watch carefully to see if all the letters are now visible on the screen; if not, reduce to 74%. Touch Show again to make sure that all the desired letters appear on the screen.

When all letters appear on the screen, rotate them 90º. Then enlarge letters to desired finished size. Touch Show again to make sure all letters appear on screen. Touch Temporary Save.

Select indicated alphabet again; program **Embroidery**; touch OK. Use the same process as above to rotate 90º. Move **Embroidery** directly under **BERNINA**.

Touch OK only when editing is complete. Embroider, trim, and mount the sample.

artista 200E
Select indicated alphabet; program the word **BERNINA**, touch OK.

Select the Large Oval Hoop. Select Edit 1; move the lettering so that the lower edge of the text box rests on the center of the grid line.

Go to Edit 1; duplicate the design and rotate lettering 90º. Touch the Show Grid icon two times to activate the grid.

Move the text outline box so the top of the box rests on the center grid line.

Select the Add Motif icon; program **Embroidery**; touch OK. Use the same process as above to rotate the word 90º. Move the word **Embroidery** directly under the word **BERNINA**.

Touch OK only when editing is complete. Embroider, trim, and mount the sample.

Notes

aurora 430E & 440E: This topic was covered on pages 10d-g, *Lettering Basics* and *Lettering Editing*

Embroidery Font
Deco 330
Cheltenham

artista 165E
Drifter

artista 185E
Drifter

artista 200E
Bamboo

Fabric & Stabilizer
8" x 10" rectangle

Manipulating Alphabets Sample

Deco 330

artista 165E

artista 185E

artista 200E

Stitch Density (*artista* only)

Deco **650**
n/a

artista **165E**
Select alphabet; enter the letter **B**. Select Layout 1; enlarge letter 200%.Touch Temporary Save.

Duplicate **B** 2x for a total of 3 **B**s. Using Retrieve and positioning arrows, move one **B** to left, leave one in center, and move one to right. Tough Temporary Save.

Retrieve **B** on right; select Layout 2. Alter Stitch Density to 160%. Touch Temporary Save.

Retrieve **B** on left; select Layout 2. Alter Stitch Density to 40%. Touch Temporary Save. Touch OK to process the design. Embroider,

Trim and mount sample.

Notes

aurora 430E & 440E:
n/a

artista **185E**
Select alphabet; enter the letter **B**. Select Layout 1; enlarge letter 200%.Touch Temporary Save.

Duplicate **B** 2x for a total of 3 **B**s. Using Retrieve and positioning arrows, move one **B** to left, leave one in center, and move one to right. Tough Temporary Save.

Retrieve **B** on right; select Layout 2. Alter Stitch Density to 160%. Touch Temporary Save.

Retrieve **B** on left; select Layout 2. Alter Stitch Density to 40%. Touch Temporary Save. Touch OK to process the design. Embroider.

Trim and mount sample.

artista **200E**
Select indicated motif. Select Edit 1; touch Duplicate icon to make a copy of the design. Touch Edit 2; select Adjust Height/Width icon. Increase *height* of motif to 140%. Move motif to upper right corner.

Return to Edit 1; duplicate design again. Touch Edit 2; return height of design to 100%, then increase *width* to 140%. Move motif to lower left corner. Return to Edit 1; touch OK to process design.

Embroider and trim sample, then mount it on the following page.

Embroidery Font
Deco **330**
n/a

artista **165E**
Swiss Block

artista **185E**
Drifter

artista **200E**
Drifter

Fabric & Stabilizer
8" x 10" rectangle

Stitch Density Sample

Deco 330

n/a

artista 165E

artista 185E

artista 200E

Combining Motifs (On-Screen Editing)

***Deco* 330**
Select indicated motif. Select the Editing tab. Touch Rotate 45° one time.

Select Pattern selection tab. Select indicated motif. Move motif up. Select Pattern selection tab. Select same motif. Touch Mirror Image Horizontal. Move motif down. Touch OK.

Embroider. Return carriage to stored position. Trim and mount sample.

***artista* 165D & 185D**
Select the indicated motif. Go to Layout 1. Touch the Rescale symbol; decrease the size to 80%. Touch the Rotate symbol two times; the motif is automatically rotated 90°. Touch Temporary Save.

Select the Menu icon. Select the second indicated motif. Go to Layout 1.

Touch Temporary Save, then one of the positioning arrows. There should now be two copies of the second motif on the screen with the first motif underneath them.

The top motif is active. Select the Rotate symbol and turn the motif 180°. Use the Retrieve icon and the positioning arrows to "frame" the original motif with the duplicated U-shaped motifs.

When pleased with the arrangement of the motifs, touch OK.

While the embroidery combination is processing, hoop the fabric and stabilizer in the Large Hoop (165E) or the Large Oval Hoop (185E). When processing is complete, stitch design. Trim and mount sample.

***artista* 200D**
Select the indicated motif; select the Large Oval Hoop.

Go to Edit 2. Touch the Rescale Motif symbol; decrease the size of the motif to 80%. Touch the Rotate Motif symbol 2 times to automatically rotate the motif 90°.

Go to Edit 1. Select Temporary Save. Touch the Select Motif icon to return to the motif menu. Select the second indicated motif. Select Edit 1. Touch the Duplicate Motif symbol. There are now 2 motifs on the screen with the first motif under them.

Return to Edit 2. The top motif is active. Select Move Motif and touch the Multifunction symbols on screen to return them to "0". Mirror Image the motif both vertically and horizontally. Use the positioning arrows to arrange the motifs as desired.

When pleased with the arrangement of the motifs, touch OK. Choose the Recalculation option.

While embroidery combination is processing, hoop fabric and stabilizer in Large Oval hoop. When processing is complete, embroider the design. Trim and mount the sample.

Notes

aurora 430E & 440E: insert page 58a-59a, *Combining Motifs*

Embroidery Motif
***Deco* 330**
#50 - needle & thread
#30 - sewing border

***artista* 165E**
#10 - floral spray
#11 - floral spray

***artista* 185E**
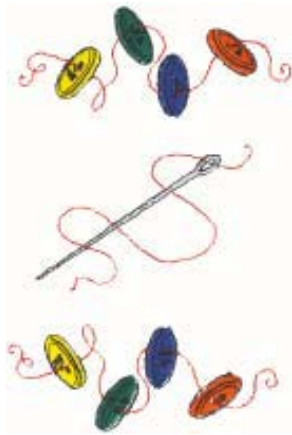#13 - urn
#36 - laurel wreath

***artista* 200E**
#14 - little wild rose
#16 - little pansies

Fabric & Stabilizer
8" x 10" rectangle

Combining Motifs Sample

Deco 330

artista 165E

artista 185E

artista 200E

Combining Lettering & Motifs (On-Screen Editing)

Deco 330
Select indicated motif. Move down. Select Pattern selection tab. Select same motif. Touch Horizontal Mirror Image. Move motif up. Select Alphabet tab. Select Gothic, medium size font. Using upper and lower case letters, program **Bernina**; touch OK. Move up slightly. Touch Alphabet tab. Program **deco 330**; touch OK. Move down slightly; touch OK.

Embroider. Return carriage to stored position. Trim and mount sample.

artista 165E & 185E
Select the indicated motif; Select Layout 1. Enlarge to 130%. Move to upper edge of hoop. Touch Temporary Save to store design.

Touch Center to duplicate design. Rotate 180º, or activate Vertical Mirror Image. Move design to lower edge of hoop. Touch Temporary Save.

Touch Menu icon to access alphabets in embroidery module. Select Zurich alphabet; program the word **Bernina**; touch OK.

Select Layout 1; reduce lettering to fit, then move it so that the lower edge of text box rests on the horizontal grid line. Touch Temporary Save.

Select Zurich alphabet again; program **artista 165E** or **artista 185E**; touch OK. Reduce the lettering to a pleasing size, then move it so upper edge of text box rests on the horizontal grid line. Touch Temporary Save.

Use Retrieve to select each part of combination; use Show and Move Motif arrows to fine-tune placement. Touch Temporary Save after each one.

Touch OK to process the multiple elements into a single design.

Embroider, trim, and mount sample.

artista 200E
Select the indicated motif. The motif opens in the Edit 1 screen.

Select Large Oval Hoop. Go to Edit 2. Reduce design to 80%; rotate 65º. Move to lower edge of hoop. Touch Temporary Save to store design.

Select Duplicate icon to copy the design. Touch the Show Grid icon two times to activate the placement grid. Rotate design 245º or activate the Horizontal Mirror Image function. Move design to the upper edge of hoop.

Touch the Add Motif icon; select Alice alphabet; input **Bernina**; touch OK.

Select Edit 1; reduce lettering to fit, then move it so the lower edge of the text box rests on the horizontal grid line.

Select Alice alphabet again; input **artista 200E**; touch OK. Reduce lettering and move it so the upper edge of text box rests on horizontal grid line.

Use the Move Motif function to fine-tune the design arrangement.

Touch OK to process the multiple elements into a single design.

Embroider, trim, and mount sample.

Notes

aurora 430E & 440E:
insert page 60a-61a,
Combining Lettering & Motifs

Embroidery Motif
Deco 330
#19 - fancy border
Gothic alphabet

artista **165E**
#21 - swirl
Zurich alphabet

artista **185E**
#20 - floral spray
Zurich alphabet

artista **200E**
#8 - grape leaf
Alice alphabet

Fabric & Stabilizer
8" x 10" rectangle

Combining Lettering & Motifs Sample

Deco 330

artista 165E

artista 185E

artista 200E

Mastering Your **BERNINA®**

Rehooping

Deco 330
Draw a baseline. Hoop fabric at one end; use template to keep line vertical.

Select Gothic alphabet. Select vertical lettering. Program **BERNINA**; touch OK. Position needle starting point over baseline. Embroider.

Rehoop fabric with **BERNINA** at top, keeping baseline straight. Select Alphabet tab. Program **deco 330**. Position needle starting point over baseline at an appropriate distance from **BERNINA**. Embroider.

Return carriage to stored position. Trim and mount sample.

artista 185E
Draw a baseline. Hoop fabric; use template to keep vertical.

Select Swiss Block alphabet; enter **BERNINA**. Go to Layout 1; reduce to 80%, rotate 90º, then return size to 100%. Touch OK. After processing, touch Start; position needle over baseline. Touch OK. Only **BERNIN** appears on screen, with message to shrink or rotate design; ignore message. Stitch.

Rehoop fabric with BERNIN at the top of the hoop, keeping baseline straight. Select alphabet again; enter **A 185E**. Rotate 90º; touch OK. Touch Start; position needle over baseline at an appropriate distance from **BERNIN**. Embroider, trim, and mount sample.

artista 185E
Draw a baseline. Hoop fabric; use template to keep line vertical.

Select Swiss Block alphabet; enter **BERNINA**. Go to Layout 1; reduce to 64%, rotate 90º, then enlarge to 88%. Touch OK. After processing, touch Start; position needle over baseline. Touch OK. Embroider.

Rehoop fabric with **BERNINA** at top of hoop, keeping baseline straight. Select alphabet again; enter **165E**. Rotate 90º; resize to 88%; touch OK. Touch Start; position needle over baseline at an appropriate distance from **BERNINA**. Embroider, trim, and mount sample.

artista 200E
Draw a line to represent the design baseline. Hoop fabric in Medium hoop; use template to keep line straight and vertical.

Select the London alphabet; enter **BERNINA**. Go to Edit 2; rotate 90º. Touch OK. Select Move Hoop; position needle over marked baseline. Embroider BERNINA.

Rehoop fabric. Select London again; enter **200E**. Go to Edit 2; rotate 90º. Touch OK. Select Move Hoop; position needle over baseline an appropriate distance from **BERNINA**. Embroider, trim, and mount sample.

Notes

aurora 430E & 440E: insert page 62a-63a, *Rehooping*

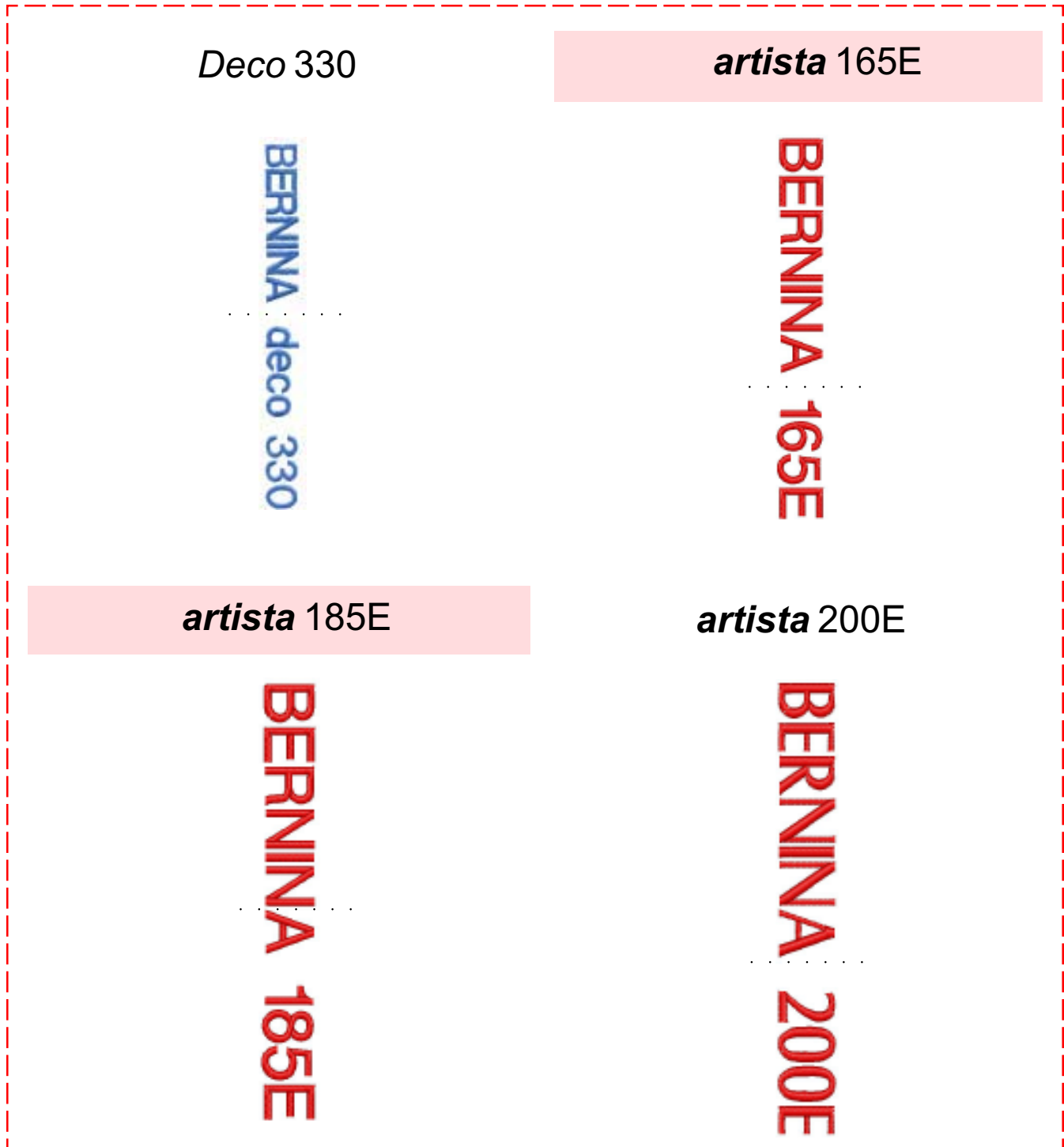**Embroidery Motif**
Deco **330**
Gothic

artista **165E**
Swiss Block

artista **185E**
Swiss Block

artista **200E**
London

Fabric & Stabilizer
8" x 10" rectangle

Rehooping Sample

Deco 330

artista 165E

artista 185E

artista 200E

Free-Arm Embroidery

Deco 330

select indicated motif. Select Editing tab. Select Hoop selection icon. Select A(F): 126 x 110mm. Touch OK.

Embroider sample.

Return carriage to stored position.

Trim and mount sample.

artista 185E

Attach adapter and module; DO NOT ATTACH SMALL HOOP YET!

Select indicated motif. The *artista* will check the hoop size and recommend a larger one; touch ESC. Select Layout 1; reduce motif to fit.

Touch CHECK to move embroidery arm into proper alignment for free-arm stitching. Touch OK.

When stitch processing is complete and embroidery arm is in position, attach the Small Hoop.

Stitch, trim, and mount sample.

artista 165E

Note: Spacer and Small Hoop are optional accessories.

Attach adapter and module; DO NOT ATTACH SMALL HOOP YET!

Select indicated motif. The *artista* will check hoop size and recommend a larger one; touch ESC. Select Layout 1; reduce motif to fit.

Touch CHECK to move embroidery arm into proper alignment for free-arm stitching. Touch OK.

When stitch processing is complete and embroidery arm is in position, attach the Small Hoop.

Stitch, trim, and mount sample.

artista 165E

Attach adapter and module to free-arm. Attach Small Hoop to module.

Select indicated motif. Reduce size as needed in Edit 2 (stitching field = 72mm x 50mm). *Note: Adapter/Small Hoop recognition occurs during change from Edit 1 to Edit 2.*

Touch OK to process the embroidery design.

Stitch, trim, and mount sample.

Notes

Attaching Spacer
Important Note: Use only the Small Hoop for free-arm embroidery.

• Remove slide-on table.
• Place spacer on sewing machine arm. Push toward sewing machine to engage the lugs.
• Attach embroidery module.

Removing Spacer
• Remove module.
• Grasp right rear corner of spacer; remove from sewing machine.

Embroidery Motif
Deco 330
#37 - flower frill

artista 165E
#21 - swirl

artista 185E
#32 - blackwork teapot

artista 200E
#17 - quilt outline

Fabric & Stabilizer
8" x 10" rectangle
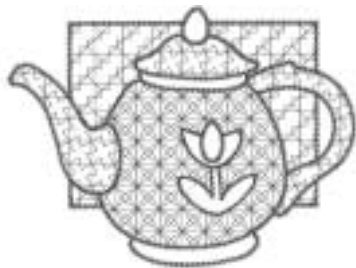
Free-Arm Embroidery Sample

Deco 330

artista 165E

artista 185E

artista 200E

Baseline Sampler

Deco 330

Select Alphabet tab. Select medium font size. Program **BERNINA**; touch OK. Move word up.

Select Alphabet tab; vertical lettering. Program **BERNINA**; OK. Move right.

Select Alphabet tab. Select Script font. Select Horizontal lettering. Program **Bernina** ; touch OK. Rotate 45º. Move into position.

Embroider. Return carriage to stored position. Trim and mount sample.

artista **165E/185E**
To create arched lettering, select, rotate, and place each letter individually, temporarily saving each one. For greatest accuracy, use placement boxes (rather than Show function) to arrange letters.

Use indicated font to write **Bernina**; place in upper right corner of hoop. Select Temporary Save.

Select Menu; select indicated alphabet. Select **B**; place to left of vertical placement line, rotating to fit circle template. Touch Temporary Save. Touch Menu. Select **e**; place to right of **B** so lower corners of placement boxes touch. Rotate **e** to fit circle template. Touch Temporary Save. Continue in this manner, adding letters to complete **Bernina**. After placing each letter, touch Temporary Save. Select Retrieve; fine tune letter placement using Show function. Touch Temporary Save after each adjustment.

Repeat this process to form additional baselines shown in illustration.

Embroider, trim, and mount the sample.

artista **200E**
To create arched lettering, use the Letter Manipulation dialog box.

Use indicated alphabet to input **Bernina**; select OK. Select Medium Hoop. Select Duplicate symbol.

Go to Edit 2. Select Letter Manipulation symbol; choose Vertical Baseline option and touch OK. Select Move Motif symbol; use Stitch Length (-300) and Width (+100) knobs to move vertical **Bernina** to left side of hoop.

Retrieve the other **Bernina**. Use default baseline (Horizontal), and move lettering to Stitch Length knob = +100 and Stitch Width knob = +350. Go to Edit 1. Select Duplicate option. Go to Edit 2. Select Letter Manipulation, then choose Curved Baseline option ABOVE the smallest green circle; OK. Move **Bernina** to Stitch Length knob = +150 and Stitch Width knob = +100.

Go to Edit 1; select Duplicate option. Go to Edit 2; select Letter Manipulation symbol. Choose Curved Baseline BELOW the smallest green circle option. Position the word at Stitch Length knob = +150 and Stitch Width knob = -400. Touch OK.

Embroider, trim, and mount the sample.

Notes

aurora 430E & 440E: insert page 66a-67a, *Baselines & Lettering Adjustments*

Embroidery Motif
Deco 330

Gothic & Script

artista **165E**
Drifter

artista **185E**
Drifter

artista **200E**
Alice

Fabric & Stabilizer
8" x 10" rectangle

Baseline Sampler

Deco 330

artista 165E

artista 185E

artista 200E

Changing Lettering Height
(*Deco* 330, *aurora* & *artista* 200E only)

***Deco* 330**
Select Alphabet tab. Select small font size. Program **BERNINA**; touch OK. Move word up.

Select Alphabet tab. Select medium font size. Program **BERNINA**: touch OK. Move up.

Select Alphabet tab. Select large font size. Program **BERNINA**; touch OK. Position as needed.

Embroider. Return carriage to stored position. Trim and mount sample.

***artista* 200E**
Open the alphabet folders; select the Drifter alphabet. Enter the word BERNINA; touch OK. Select the Medium Hoop.

Duplicate BERNINA to create a total of five copies. Use the Move Motif and Retrieve functions to arrange the words as shown in the illustration.

Select the BERNINA at the top of the hoop. Touch the Letter Manipulation symbol and change the Letter Height to 6mm. Touch OK. Use the positioning functions to move the word to Stitch Length knob = +500, Stitch Width knob = 0.

Repeat this process for each BERNINA as indicated below:
Note: Stitch Width knob position = 0 for all words.

1st BERNINA	Height = 6mm	Stitch Length knob = +500
2nd BERNINA	Height = 10mm	Stitch Length knob = +350
3rd BERNINA	Height = 14mm	Stitch Length knob = +150
4th BERNINA	Height = 18mm	Stitch Length knob = -100
5th BERNINA	Height = 20mm	Stitch Length knob = -400

When the lettering combination is complete, touch OK.

Stitch. Trim and mount sample on following page.

Notes

aurora 430E & 440E:
insert page 68a-69a,
Changing Lettering Height & Spacing

Embroidery Motif
***Deco* 330**
Gothic

***artista* 165E**
n/a

***artista* 185E**
n/a

***artista* 200E**
Drifter

Fabric & Stabilizer
8" x 10" rectangle

Changing Lettering Height Sample

Deco 330

artista 165E

n/a

artista 185E

n/a

artista 200E

Changing Letter Spacing
(*aurora* & *artista* 200E only)

Notes

artista 200E only
Open the alphabet folder; select the King Charles alphabet. Enter the word **artista**; touch OK. Select the Medium Hoop.

Duplicate **artista** to create a total of five copies. Use the Move Motif and Retrieve functions to arrange the words as shown in the illustration. *Note: Stitch Width knob position = 0 for all words.*

1st **artista**	Height = 6mm	Stitch Length knob = +300
2nd **artista**	Height = 10mm	Stitch Length knob = 0
3rd **artista**	Height = 14mm	Stitch Length knob = -300

The top **artista** has no spacing changes.

Retrieve the middle **artista** . Touch the Letter Manipulation symbol and change the Letter Spacing to 3mm. Touch OK.

Retrieve the last **artista** . Change the spacing to 5mm. Touch OK.

Embroider the combination in the Medium Hoop. Trim and mount the sample on the following page.

aurora 430E & 440E:
insert page 68a-69a,
*Changing Lettering
Height & Spacing*

Embroidery Motif
Deco **330**
n/a

artista **165E**
n/a

artista **185E**
n/a

artista **200E**
King Charles

Fabric & Stabilizer
8" x 10" rectangle

Changing Letter Spacing Sample

Deco 330

n/a

artista 165E

n/a

artista 185E

n/a

artista 200E

artista

artista

artista

Mega Hoop
(*artista* 200E only)

***artista* 200E only**
Hoop fabric and stabilizer in the Mega Hoop. Put clamps into the designated notches and attach hoop to the ***artista*** 200E.

Select the Blackboard alphabet. Enter the words:
Nothing Sews Like A BERNINA. Nothing!
Touch OK.

Select Edit 2. Touch the Rotation Arrows twice to automatically rotate the design 90º. Enlarge text to the length of the Mega Hoop. Touch OK.

The artista will instruct you to reposition the Mega Hoop. Press the front clip only and gently push or pull the hoop until the attachment mechanism clicks into place in the desired position. The artista will instruct you to check that the notch is firmly in position. Press OK to confirm.

Stitch. The artista will prompt you to reposition the hoop when needed. Follow the screen directions to complete stitching the design.

Trim and mount the sample on the following page.

Notes

Embroidery Motif
***Deco* 330**
n/a

***artista* 165E**
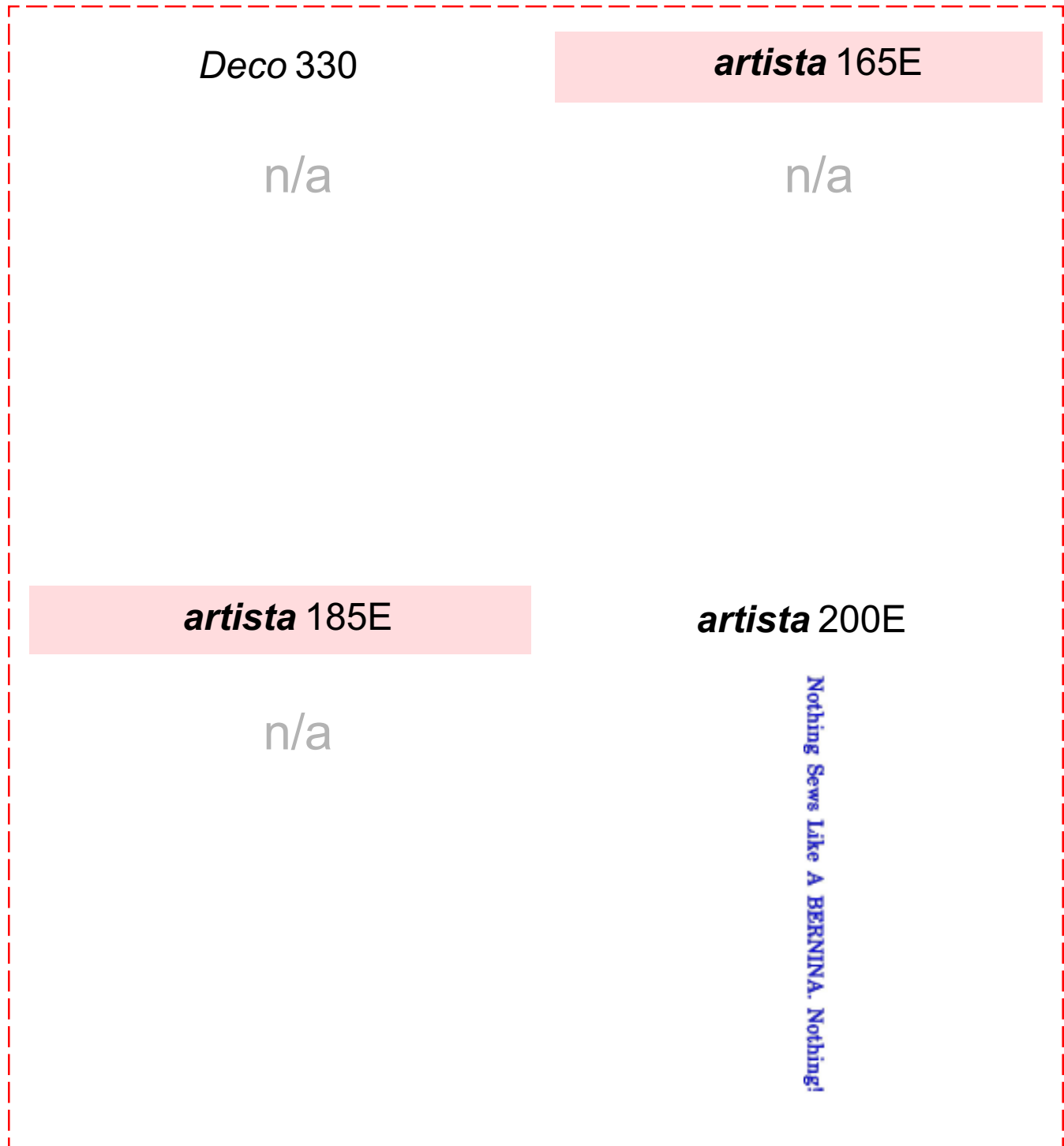n/a

***artista* 185E**
n/a

***artista* 200E**
Drifter

Fabric & Stabilizer
8" x 10" rectangle

Mega Hoop Sample

Deco 330

artista 165E

n/a

n/a

artista 185E

artista 200E

n/a

Nothing Sews Like A BERNINA. Nothing!

my*artista* Portal
(*artista* 200E only)

artista 200E only
Connect the *artista* 200 modem (optional accessory) to a dial-up phone line and to the *artista* 200.

Select the Portal icon. This message appears: **A modem connection is required. Do you want to connect to: _____.** Touch Yes.

A **Connecting...** message appears at lower edge of the touch screen.

When **The modem is connected successfully to: _____.** appears, touch OK.

Select Large Oval from the available choices.

This message appears: **A modem connection is active. Do you want to disconnect?** Touch No.

Select the Save icon. Select the Untitled design; enter a name for the design, which you will stitch out later.

The *artista* 200 will again ask if you want to disconnect. Touch No.

Return to the Portal icon to retrieve additional designs.

When finished, disconnect at the prompt. Unplug the cable from the *artista* 200.

Retrieve one of the Portal designs from your My Designs folder.

Embroider and trim sample, then mount on the following page.

Notes

my*artista* Portal
A special Internet gateway available only to artista 200 owners, accessible via the optional artista 200 modem.

News Flashes: Advance notice of upcoming products and events of interest to *artista* 200 owners.

Stitch Memos: Informative articles to help *artista* 200 owners maximize the use of unique *artista* 200 features.

Foot Notes: Details on the use of various presser feet and accessories for you *artista* 200E sewing and embroidery projects.

Embroidery Designs: Select the portal from an Embroidery Menu or Tutorial to download .ART designs. Designs on the **my*artista*** Portal are selected from www.embroideryonline.com and will be updated monthly.

my*artista* Portal Sample

Deco 330

n/a

artista 165E

n/a

artista 185E

n/a

artista 200E

Use any embroidery design
from the **my*artista*** Portal

Beyond the Basics Shopping List

❑ Embroidery Design Collections
       ❑ _____
       ❑ _____
       ❑ _____
       ❑ _____
       ❑ _____

Stabilizers
Cut-Away
       ❑ Heavyweight Cut-Away
       ❑ Hydro-Stick Cut-Away
       ❑ Cut-Away Poly-Mesh
       ❑ Fusible Poly-Mesh
Tear-Away
       ❑ Lightweight Tear-Away
       ❑ Smooth Touch Tear-Away
       ❑ Medium Weight Tear-Away
       ❑ Hydro-Stick Tear-Away
       ❑ Ultra Clean & Tear
Water-Soluble
       ❑ Aqua Film Topping & Backing
       ❑ Badge Master
       ❑ Aqua Mesh
       ❑ Stabil-Stick
Other
       ❑ Spray Starch
       ❑ Brush/Paint-On products
       ❑ Fusible Interfacing products
       ❑ 505 Temporary Spray Adhesive

❑ Embroidery Needles - mixed #75/90
❑ Organ Embroidery Needles
       ❑ #70/10 Sharps
       ❑ #80/12 Sharps
       ❑ #90/14 Sharps
       ❑ #70/10 Ballpoint
       ❑ #80/12 Ballpoint
       ❑ #90/14 Ballpoint

❑ *ABCs of Embroidery*
❑ *A Touch of Artistry I*
❑ ***artista** Sampler*
❑ *Seasons of Artistry*
❑ *Through the Needle* magazine

❑ Embroidery Threads
       ❑ color _____
       ❑ color _____
       ❑ color _____
       ❑ color _____
       ❑ color _____
       ❑ color _____

❑ Supplemental Thread guide
❑ Multiple Spool Holder
❑ Bobbin Thread
❑ BERNINA® Thread Box

Embroidery Hoops
       ❑ Free-Arm Hoop (*Deco* 330)
       ❑ Small Embroidery Hoop
       ❑ Medium Embroidery Hoop
       ❑ Large Embroidery Hoop
       ❑ Large Oval Embroidery Hoop (185E/200E)
       ❑ Mega Hoop (200E)
       ❑ Round Hoop (*Deco* 330)

❑ BERNINA® embroidery software
❑ Reader/Writer Box
❑ Personal Design Card
❑ Magic Box
❑ Magic Cards