Chapter 2: MACHINE SETUP & ORIENTATION

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Proper Machine Setup: Environment

Temperature and Humidity-Controlled Environment
Set up/store your machine in a temperature and humidity-controlled environment to prevent long-term corrosion and to protect the electronics. Don’t keep your machine anywhere you wouldn’t keep a laptop or desktop computer!

Clean, Protected Electrical Power

*grounded outlets:* Your machine uses standard 110v household current. Be sure you connect it to a grounded 3-prong outlet like the one shown here. This is standard in most homes and businesses today, but some older buildings may only have 2-prong outlets.

*surge protection:* Protect your machine against occasional power spikes (from electrical storms or electrical wiring problems) with at least a basic surge protector. The electronics on your machine can be very expensive to replace. Higher-end surge protectors and UPS units are able to protect against higher energy strikes, and often come with a guarantee.

Steady Table / Mounting Surface
Your machine will perform better (especially at higher speeds) when operated on a strong, level and steady mounting surface. Although on wheels, the optional stand provides plenty of stability, and even more when the wheel brakes are applied at all 4 corners.
Proper Machine Setup: Upper Thread

- Proper Thread Routing: All threads must be routed correctly at all points along the path through the sewing head.

Layout of Cone/Needle Sequence
Needle numbers are arranged right to left, lowest number to highest.

General Thread Route
Thread must pass up from cones through guide holes in thread tree and through every specific point along the face of the sewing head. Thread must be “docked” at the thread holder spring.
Proper Machine Setup: Upper Thread

**Proper Thread Routing:** All threads must be routed correctly at all points along the path through the sewing head.

**Practice good thread “Discipline”:** After threading all needles, ensure there is no slack anywhere along the thread path. Make sure to:

- **Pull all threads** – to ensure thread feeds smoothly and turns the break sensor, and all slack is removed from around thread cones.

- **“Dock” all thread ends** from each needle onto the thread-holding spring. Prevents thread from coming loose and catching where not desired.
Proper Machine Setup: Bobbin loading and Tension check/adjustment

RE-LOADING THE BOBBIN CORRECTLY
The bobbin will need to be replaced frequently, allowing only 30,000 to 60,000 stitches per spool. This has to be done correctly every time.

1. Ensure bobbin turns clockwise. Pull thread through this slit.
2. Feed thread through eye at the end of the tension flap.
3. Check tension with the “drop” test (explained lower left).
4. Pass thread through the wire loop at the top front of the bobbin case. Do this after you’re satisfied with tension, and before inserting into the machine.

CHECKING TENSION WITH THE “DROP” TEST.
1. Hold the bobbin case as shown in step 3, after feeding the thread through the eye at the end of the tension flap.
2. “Cast” the bobbin case downward gently, very much like throwing a yo-yo.
3. Good tension: Upon stopping your hand, the slight downward momentum of the bobbin case should cause it to unspool and continue downwards slightly and stop. (If downward motion of your hand causes the bobbin to jump out of the case, try again but more gently).
4. Wrong tension: If the bobbin doesn’t unspool at all, tension is too tight. If the bobbin unspools on its own when held like in step 3, tension is too loose. Make adjustments if needed as shown on the right.

With a working bobbin case and a properly loaded bobbin, this test reliably tests to 25g on a bobbin tension gauge, precise within 1g. Perform this quick check each time you re-load the bobbin until you are comfortable with tension.

5. Take Care to Re-insert the Reloaded Bobbin Case Fully after re-loading or the machine will not function correctly.
Sewing Controls

Basic Sewing Controls
On this page, learn the function of the important sewing controls.

• Sewing Controls
Understand the functions of these key sewing controls.

- **P.FOOT** lowers the presser foot on command
- **TRACE** only traces when design is at Origin. Does slow trace when held continuously.
- **FWD** advances sewing position forward while machine is stopped.
- **CUT** cuts current thread and tucks end into thread holder.
- **START** starts sewing. Bypasses trace. Sews in "creep" mode when held down.
- **STOP** stops sewing. Also when stopped moves sewing position backwards. Useful after thread breaks.
- **Needle Select Keys** change the currently-selected needle while machine is stopped.

**Color Code**
- **Items in black** – function only when machine is stopped.
- **Items in red** – function when machine is running or stopped.

- **Sewing arm movement** move pantograph arm with the 4 blue arrow keys, hold FF at same time for quick movement
- **Speed control** – adjusts max sewing speed.
Main Screen Information

Information Display on the main Drive screen

This screen shows information about the design, its position and fit, and current sewing status.

- **Total # of color blocks** in the design
- **Current block #**
- **next 4 colors in sequence**

- **Max allowed speed** – set this with the + and – keys up to 1000 spm.

- **Actual sewing speed** – machine sews at speeds up to max allowed speed, but varies according to stitch length. Longer stitches take more time, requiring a slower speed.

- **# of Stitches** in design
- **current stitch** position in design

- **Origin indicator** – indicates that sewing position is at the design origin, before the trace.

- **Current Hoop:** shows what type of hoop is currently in use on the machine.

- **Active needle:** shows the currently selected needle #

- **Indicator lights:** serve as reminders for any edits that may have been done to the design from the control panel (in order from left to right, scale, rotate, satin pull compensation, repeat, auto origin return, offset

- **Show design position & fit in hoop:** pressing FAST or the arrow keys lets you check and/or adjust position against the selected hoop. See next page.
Main Screen Information

Information Display on the main Drive screen

Design Position and Fit: From the main screen, you can check design position and fit instantly.

**NOTE 1:** If blue design outline crosses or falls outside the red area, the design will hit the edges of the hoop while sewing.

**Note 2:** Use the Trace feature if needed to verify results found here.

Show position and fit by pressing FAST or the arrow keys to show position and fit.

Adjust position by pressing and holding the arrow keys (plus FAST). Outline moves live with the hoop. Do not cross red line to keep design inside the sewable area.
General Tips in Navigating Main Menu Screens

In many of the screens accessed from the main menu, there are additional options that can be accessed in the same way. In the sample screen shown below, we’ve illustrated a few simple rules:

- **View Design:** This option displays the design full-screen with any current changes you’ve made to it.
- **Sub-menu:** Contains additional options for a given screen.
- **Press MENU** to access the sub-menu. You’ll see the uppermost icon highlight in blue.
- **Press ESC** to exit the sub-menus and return the cursor to the rest of the Needle screen (example shown here).
The Function Screen
The FUNC menu allows quick access for key machine functions directly in the main drive screen.

- **FRAME TYPE** lets you choose which hoop you’re using, allowing the machine to display the correct sewing position/sewing area.
- **O SET** sets the design origin point to the current hoop position.
- **TOP** positions the hoop at the top of the pattern. Repeating returns hoop to previous position.
- **ORIGIN**: resets sewing position to the start. Does not change position in hoop.
- **LOG-IN**: Set this to log the machine on to a Happy machine network.
- **TURN-OFF**: Always try to power down the machine from this option, not at the power switch.

**FRAME POSITION** displays the submenu menu shown. Functions are shown below.

- **CENTER** centers the hoop.
- **CENTER DESIGN** centers the hoop and centers the design in the hoop.
- **FRAME OUT**
- **POSITION** moves hoop to current stitch position.

Access this menu by pressing the FUNC key.

Next page: selecting a hoop from the “Frame Type” sub-menu
Function Screen Con’t:
Using “Frame Type” to Select the Hoop to be Sewn

From the FUNC menu, select “Frame Type” to tell the machine which hoop will be used. This lets the machine correctly show design position and fit on the screen, improving your confidence in sewing a design in the desired position without striking the hoop. To select a hoop, first choose 1 of the 5 types in the sub-screen that appears below.

Pressing FUNC –then Frame Position causes this sub-screen to appear.

Select optional sock frame
Select from round hoops
Select from rectangular hoops
Select 3rd party hoops
Choose to not indicate hoop type & size to the machine (cancels the normal centering movement/check at startup) – use this for Hooptech clamping system.

Next page: selecting the actual hoop.
Function Screen Con’t:
Using “Frame Type” to Select the Hoop to be Sewn

Once a hoop category has been selected, the sub-screen of available hoops appears.

This sub-screen shows available HAPPY brand round hoops.

This column shows the HAPPY designation for a given hoop.

Hoop size in mm. Rectangular hoops show 2 dimensions (LxW).

Note: For the Custom hoop category, hoops can be set up using the Frame screen. See pages 26-30 for more info.
Important Main Menu Sub-Screens

Important Main Menu Features, page 1 of 2

Shown on this page & the next are functions of the main menu sub-screens.

**Needle Screen** is most important – for assigning thread colors to the design.

**Read Screen** is for read designs from a compact flash card or USB jump drive.

**Setting Menu** allows you to make useful adjustments to the design.

**Pattern Menu**:
- select, organize, delete designs, or save back to flash memory device.

**Position Screen** lets you jump to different parts of the current design.

**Option Screen** accesses settings adjustments for the way the machine sews or the way designs are loaded and read through cable connections.
Important Main Menu Sub-Screens

Important Main Menu Features, page 2 of 2

Shown on this page & the previous are functions of the main menu sub-screens.

- **Report Screen** reports recent sewing production progress in stitches, and time/date of each session.

- **Other Screen** contains the following important functions:
  - **System** – quick firmware re-set
  - **Speed** – re-set of sewing speed control
  - **Version** – displays the version#s of the installed firmware.

- **Guide** - this screen lets accesses on-board help topics.
Important Main Menu Screens: Needle Screen

Designs sew in a sequence of color blocks. In order that your machine sews each color block with the correct color in the correct order, you can set that color sequence in the Needle screen, shown here.

First match the thread color palette to the actual thread colors installed on the machine. You’ll only need to do this once for all colors, then only for any time you replace thread cones with other cone colors.

To set the color palette, press MENU to access the sub-functions on the right side, then arrow down to the Palette icon.

Thread color palette: lets you tell the machine which thread color is assigned to a given needle. When properly matched, it allows a color-accurate preview of the design colors that will actually sew.

NEXT: THE COLOR PALETTE
**Important Main Menu Screens: Needle Screen**

Designs sew in a sequence of *color blocks*. In order that your machine sews each color block with the correct color in the correct order, you can set that color sequence in the Needle screen, shown here.

**First match the thread color palette to the actual thread colors installed on the machine.** You'll only need to do this once for all colors, then only for any time you replace thread cones with other cone colors.

**How to Change the color assigned to each needle:**
Use the blue arrow keys to move the pointer to the needle whose color you wish to change. Then, press SET, calling up a color palette. Use the arrow keys to choose a different color and finally press SET.

**Next:** HOW TO SET THE COLOR SEQUENCE
Important Main Menu Screens: Needle Screen

Designs sew in a sequence of *color blocks*. In order that your machine sews each color block with the correct color in the correct order, you can set that color sequence in the Needle screen, shown here.

How to Set the Color Block Sequence for A Design:
Follow steps 1-4 on the right to set the color sequence for a design. When finished, press ESC to return to the main menu, and/or ESC again to return to the main sewing screen.

Note: if a color block isn’t assigned a needle #, that block will show a needle # of zero. When reaching that color block number during sewing, the machine will stop and prompt the operator to select a color.

1. Select the color block # you wish to edit using the left or right arrow keys.

2. The selected color block will highlight to help confirm the part of the design you’re setting the color for.

3. Change the needle number by using the up/down arrow keys. Up increases, down decreases the value.

4. Arrow to the next color and continue until a needle# is selected for all the color blocks in the design.
Important Main Menu Screens: Pattern Screen

The control panel can store a maximum of 250,000 stitches of designs, or 99 designs total. The Pattern screen lets you choose from these designs if you wish to sew a design other than the current active design, as well as perform other design management functions such as deleting, re-naming, duplicating and locking designs.

How to choose a design in the Pattern menu:

1. Use the blue arrow keys to select a pattern.
2. Press the SET key to make that pattern the active pattern.
3. Press ESC to return to the main menu.

Design Information – shows:
- Design name & number
- Stitch count
- # of color changes
- Height in mm
- Width in mm
- Distances from origin point to top & bottom edges
- Distances from origin point to left & right edges

This pattern is locked, preventing accidental deletion or modification.

Additional Options (access these by pressing MENU)
- View pattern full-screen
- Lock selected pattern
- Delete 1 or more patterns
- Select trace types (slower outline trace or faster but less accurate area trace)
- Re-name selected pattern
- Duplicate selected pattern

NEXT: 2nd page of right side menu options
Pattern Screen, right side options page 2

Shown here are the options on the second page of the right side menu.
Important Main Menu Screens: Setting Screen

The Setting screen allows you to perform some useful modifications to the current pattern. Any changes made to a design in the Setting screen will be saved with that design and will be remembered as long as the design stays in the control panel memory.

Left side of the Setting screen shows:
- Design information
- Outline of the design to display what's being done to the design i.e. rotation, new size, etc.

The SETTING screen is divided into 4 tabbed sub-screens. The functions on each tab are described on the next 4 pages.
Important Main Menu Screens: Setting Screen

The Setting screen allows you to perform some useful modifications to the current pattern. Any changes made to a design in the Setting screen will be saved with that design and will be remembered as long as the design stays in the control panel memory.

1st Tab: useful design editing functions
The functions found on the default first tab perform the most common edits: re-scale, satin pull compensation, and design rotation.

Next: Setting Screen 2nd Tab
Important Main Menu Screens: Setting Screen

The Setting screen allows you to perform some useful modifications to the current pattern. Any changes made to a design in the Setting screen will be saved with that design and will be remembered as long as the design stays in the control panel memory.

2nd Tab: Repeat Function:
This can be useful if you wish to sew the same design repeatedly on a large hoop i.e. to create a series of patches.

Set number of rows and columns

Spacing (left-right)
Spacing (up-down)

Toggle between “sew by row” or “sew by column”

Note on Spacing:
Spacing values should be set to the design size plus the desired value. For example, if wanting to repeat a 100mm wide design 20mm apart, the left-right spacing should be set to 120mm.
Important Main Menu Screens: Setting Screen

The Setting screen allows you to perform some useful modifications to the current pattern. Any changes made to a design in the Setting screen will be saved with that design and will be remembered as long as the design stays in the control panel memory.

3rd Tab: Offset: This function allows you to program a design to sew a design offset from center by a given distance in mm in the X and Y directions. Note that –Y values move the design lower in the hoop and vice-versa. -X values move the design to the left in the hoop and vice-versa.

NEXT: SETTING SCREEN 4th TAB
Important Main Menu Screens: Setting Screen

The Setting screen allows you to perform some useful modifications to the current pattern. Any changes made to a design in the Setting screen will be saved with that design and will be remembered as long as the design stays in the control panel memory.

4th Tab: Frame-out for applique

"Frame-Out" lets you command the machine to stop after sewing a specific color block number and then move the sewing arm towards you by a specific, pre-programmed distance. As an example, this is useful when sewing appliqué, where sewing needs to pause after the marker stitch has been laid. However, it can also be done more simply in the Needle screen (see page 12 in this chapter).

Choose color block # where the frame-out occurs.
Set frame-out by moving sewing arm
Set frame-out movement numerically by entering exact X and Y values in mm

NEXT: THE READ SCREEN
**Important Main Menu Screens: Read Screen**

The Read screen is used to read designs from a compact flash card or USB jump drive.

**Choose CF card or USB Jump drive** from the selections shown on the right when first selecting “READ”.

**Right side: design list from the card**: shows 8 designs at a time – to view the rest, arrow down below the list bottom or up to go higher.

**Left side: “read settings”** for the design: allows you to adjust the way the machine reads in a design. Some useful features are illustrated here.

- **combine jump** – net effect reduces the number of trims in a design
- **stitch sweeper** – always turn on, removes problematic short stitches.
- **sweep length** – lets you set the max size of the stitches it deletes in tenths of a mm. 4 is the recommended value.

**NEXT: THE POSITION FUNCTION**
Important Main Menu Screens: Position

Use the Position function if you wish to start sewing a design at any point other than the beginning. Note that this is not used to return to position after a power fail recovery or sewing interruption: in those cases, use the Position option accessed from the FUNC key (when in the main “drive” screen).

Set sewing position by repeat # (if repeat function is used)

Set sewing position by color block # - This is used most commonly.

Set sewing position by stitch# - Useful if you remember the exact stitch # where the machine left off sewing.

NEXT: THE FRAME FUNCTION
Main Menu Screens: Frame Screen

The Frame function performs the same function as FUNC -> Frame Type (to select a hoop and check fit and position), but also allows for further setup of custom hoops.

HOW TO USE THE “FRAME” FUNCTION
Follow the steps on this page and the next to use the Frame function.

1. Choose Frame from the main menu.

2. Choose OK and press SET at “Check the top of pattern data”.

3. Choose frame type from this menu. 
   Round, Square, Sock, Custom and Non-registered categories are available. When finished press SET.

Continued on next page
Important Main Menu Screens: Frame Screen

The Frame function performs the same function as the FAST button in the Main/Drive screen, (but with a few more options). It allows you to choose a hoop, then see/adjust position and fit.

HOW TO USE THE “FRAME” FUNCTION

Follow the steps on this page to use the Frame function. (continued from previous page)

4. A screen appears showing the available hoops for that category. In the example on the right, the Round hoop category was chosen, so a list of available round Happy hoops are shown. Sizes are indicated in mm in the right column (ignore the left column of 2-digit numbers). For example, if you wish to choose a 12cm hoop, choose “120”.

5. Press SET to select the hoop. Design outline appears in blue. Red line is the safety margin for the hoop. Black outline is outline of hoop itself.

Choose a hoop and press SET: the right side numbers indicate hoop size in mm. (The left side number is an internal reference # and not useful)
Important Main Menu Screens: Frame Screen

The Frame function performs the same function as the FAST button in the Main/Drive screen, (but with a few more options). It allows you to choose a hoop, then see/adjust position and fit.

HOW TO USE THE “FRAME” FUNCTION

Follow the steps on this page to use the Frame function. (continued from previous page)

6. Check position and fit, use the controls to adjust if needed or desired. For HAPPY hoops, the red outline is an accurate indicator of the safe, usable area and position in the hoop. Use the arrow keys to move the design position (blue outline) within the usable area. If the blue outline is too big for the red area, it means the design is too large for the selected hoop.

To auto-center the design in the hoop, you can press FUNC, as indicated by the control map on the right side of the screen.

7. Press SET to confirm and trace when finished before exiting back to the main menu and Drive screen.

NEXT: HOW TO SET UP FOR CUSTOM HOOP SIZES IN THE FRAME SCREEN
Important Main Menu Screens: Frame Screen

Working with Custom Hoops: The “Custom” category allows the setup of up to 5 non-standard hoops, allowing custom dimensions for either round or rectangular hoop, plus the ability to add a precise custom “map” of the hoop’s true, usable sewing area.

**STEPS FOR WORKING WITH CUSTOM SIZED HOOPS**

1. Choose “CUSTOM” for frame type using the left/right arrow keys.
2. Select 1 of the 5 available slots and press SET to select a user-defined frame.
3. To edit/set up a selected user-defined frame, press MENU after selecting it. This allows you to choose the Data Entry mode for that hoop. (shown top right).

Set up general dimensions of selected custom hoop slot
Input precise custom map of hoop’s usable sewing area
You can program an offset for the selected custom hoop (as you would for the HoopTech clamp i.e. ~60.3mm for the Y value for ITCS1, -75.5 mm for the Y value for ITCS2.)

Continued on next page
Important Main Menu Screens: Frame Screen

Working with Custom Hoops: The “Custom” category allows the setup of up to 5 non-standard hoops, allowing custom dimensions for either round or rectangular hoop, plus the ability to add a precise custom “map” of the hoop’s true, usable sewing area.

STEPS FOR WORKING WITH CUSTOM SIZED HOOPS (con’t)

4. Set the hoop class – choose round or rectangular then press SET.

5. Set the hoop size – For a round hoop, enter 1 number: the diameter in mm. For a rectangular hoop, enter 2 numbers: the height (Y) and width (X) in mm.

6. The new hoop size will appear next to the custom slot you’ve set up.

NOTE: On 3rd-party hoops, actual sewing area may differ from hoop’s stated size, based on hoop shape presser foot clearance and other factors. Always test sewing area after entering hoop dimensions. This is especially true of square/rectangular hoops. Entering map data of the hoop’s usable area (previous page) lets you see the fit more exactly.

Next: Transferring Designs
Transferring Designs into Your Machine

In this section, we provide detailed steps about the 2 most common ways to transfer a design into your machine to be sewn:

– **USB connection** or

– **Flash media (CF card or USB Jump drive)**

On the following pages, we’ll go over the steps for both methods in detail. Next: USB connection

**Compact Flash Card** – (shown inserted into PCMCIA adapter sleeve) inserts into this slot on the side of the control panel.

**USB “Jump” drive** – connects in to this port just behind the control panel on later-model Voyagers. Accepts different brand thumb drives. 1Gb max capacity officially supported, but up to 16Gb drives have been found to work. (Note: if unreadable, re- formatting the drive in Windows in FAT32 often helps.)

**USB port** is found on side wall of machine with other ports. You can connect a Windows PC to the machine with a USB cable so you can transfer designs and perform other functions.
Transfer via USB Connection

One-Time Set-up of the USB Connection (continued from last page)
Follow the steps on these pages to set up your PC for a USB connection. You’ll only need to do this once.

1. Run the CD that came with your machine before connecting your HAPPY machine to your computer.

2. Wait for the CD install screen to appear.

3. Install HAPPYLINK.
Install 3.07 or newer for Vista 64 or Windows 7 64 bit.

4. Click to install the appropriate USB driver for your Windows Operating system.

5. Launch the HAPPYLINK program you installed in Step 3.

6. Click on File…Options until the dialog box shown below appears. Ensure that the dialog box is set as shown below, then click OK.

For 64-bit versions of Windows Vista and all versions of Windows 7, choose USB-COM. You’ll have to find the port# after connecting your Happy machine via USB cable and letting the driver set up, as in the next page. Return to this screen here on the left after finding the virtual COM port# assigned to your HAPPY machine by Windows.
Transfer via USB Connection

One-Time Set-up of the USB Connection (continued from last page)
Follow the steps on these pages to set up your PC for a USB connection.

5. Ensure that your HAPPY machine is turned off, and connect a USB cable between your PC and the machine. You may use the cable that came with your machine or purchase a longer one at any computer supply store. Ensure that any USB cable you purchase is high-quality and under 16 feet.

6. Power on your HAPPY machine and watch your PC screen. Windows should detect the machine, starting the Hardware Installation Wizard, similar to what is shown below.

7. Continue through the prompts, ensuring that at some point, Windows identifies the new hardware as “02 Happy Embroidery Machine” for Windows XP / Vista 32, or, in Vista 64/Windows 7, lists it in the Device Manager under Ports. Be sure to note the port#.

8. Continue until the message “Your new hardware is installed and ready to use” or a similar message appears.
Transfer via USB Connection

One-Time Set-up of the USB Connection (continued from last page)
Follow the 11 steps on these pages and the next to set up your PC for a USB connection.

11. Launch the HAPPYLINK program again. If you’ve done everything correctly, the USB connection indicator should appear as a solid grey icon in the top-left corner of the program bar as shown below.

USB connection indicator if Windows XP.
No indicator for Windows 7 /64 bit even with an active USB connection.

NEXT: Actual Steps to Transfer a Design by USB Cable
Transfer via USB Connection

Actual Steps to Transfer a Design by USB

Once you’ve properly set up HAPPYLINK and the USB drivers on your PC, you’ll only need to follow the 5 steps on this page to actually transfer designs.

1. Ensure that the machine is powered on and at the main (drive) screen. Your PC will only be able to transfer designs from this screen.

2. Connect the USB cable between machine and PC if you haven’t already done so.

3. Launch the HAPPYLINK program and check to ensure the USB icon is lit.

4. Open your design by clicking on File...Pattern Open. The above dialog box appears. Follow the directions indicated above, and your design should open (in grey tones) into HAPPYLINK.

5. Click the Send Pattern Icon. The design will transfer from your PC to the machine.
Transfer by CF card or Jump Drive

Which Compact Flash cards to buy

The slot located on the side of the machine’s control panel accepts flash memory cards, to allow you to transfer designs into memory from a computer. To do this, you’ll need to buy the 3 items shown on this page from most stores that sell computer or digital camera supplies.

1. **PCMCIA Adapter** – Allows the card to fit into the machine’s flash card slot. For PC’s (some laptops) that also accept PCMCIA cards, there is no need for (3) the USB to compact flash adapter.

2. **Compact Flash card** – This is the memory card itself. Your machine accepts compact flash cards up to 1 Gigabyte in size. NECESSARY.

3. **USB to compact flash card reader** – needed if your PC does not have a PCMCIA slot. (most don’t, though some laptops have one). Allows you to connect your card to a computer and save designs to it.

**USB “Jump” Drives** are a little easier to work with they require no adapter and plug directly into the USB port behind the control panel. They are not as brand-specific. Larger capacity jump drives are more likely to work. Be sure the drive is formatted in FAT32 for capacities larger than 1Gb.

Note: If your machine is unable to read a particular USB jump drive, (error code 133-bad disk), you can temporarily copy the files off the jump drive (i.e. to a folder on your PC), re-format the drive to FAT32, then copy the files back.

NEXT: ALTERNATE FORMS OF FLASH MEDIA
Transfer by CF card or Jump Drive

Other Types of Flash memory (What not to Buy)

Your HAPPY machine was designed to accept other types of Flash cards, but none have worked as successfully as Sandisk-brand compact flash cards. For your assistance, we’ve identified other types of flash memory cards available below. We have attempted to show the cards approximately to scale with each other. Note that compatibility with these types may improve as revisions of the machine’s on-board firmware and hardware are released.

GOOD

SanDisk brand Compact Flash card:
This has worked with the greatest success with HAPPY machines, and is widely available.

Jump Drive Brands: To date, most brands of USB jump drives have worked. Most larger capacity drives are even readable (4Gb, 8Gb, etc)

Other brands of compact Flash card:
Some other types work, although not all.

Memory Stick: This has been the least successful of the other Flash media types

SD Card: Few brands of this type have been found to work.

SmartMedia Card:
Few brands of this type have been found to work.

Other Types of Adapter Sleeves: All-in-1 adapter sleeves have had limited success, even Sandisk brand.

NEXT: HOW TO USE YOUR COMPACT FLASH CARD or JUMP DRIVE
Transfer by Flash card or Jump Drive

How to Use CF Cards or USB Jump Drives to Transfer Designs

Follow the steps on these pages to transfer designs from a PC into your HAPPY machine with a Compact Flash card.

1. **Connect the Compact Flash card or USB Jump drive to your computer.** For compact Flash, insert the card into a PCMCIA adapter first (if your laptop has this type of slot) or otherwise insert it into the USB reader.

2. **Start HAPPYLINK and open the design you wish to transfer from File… Pattern Open.** You’ll see the dialog box below appear. Follow the directions.

3. Your design will appear here. Click once to highlight it and click OK.

For USB jump drives, just plug the drive into any available USB port on your PC.
Transfer by CF card or Jump Drive

How to Use CF Cards or USB Jump Drives to Transfer Designs

Follow the 9 steps on these pages to transfer designs from a PC into your HAPPY machine with a Compact Flash card.

3. (optional step) Set the color sequence. Click on the icon shown below to do so. Or if you choose, you can set colors in your machine.

4. Save the file to the Flash card or Jump Drive. Click on File…Save As. The dialog box shown below appears. Look for “removable disk” in “Save in” give it a name and click Save. Then, close HAPPYLINK.

5. Click on Safely Remove Hardware Icon to shut off the card. You’ll find this icon at the lower-right edge of the screen near the clock. Continue until the message “It is now safe to remove” appears.
Transfer by CF card or USB Jump Drive

How to Use CF Cards or USB Jump Drives to Transfer Designs

Follow the 9 steps on these pages to transfer designs from a PC into your HAPPY machine with a CF card or USB jump drive.

6. Insert the Flash card or USB jump drive into the machine. For a CF card, you’ll need to insert the card into the PCMCIA adapter sleeve.

7. Go to the Read screen in the control panel to read the card. From the main (drive) screen press MENU and click the blue arrow keys to go to the READ and press SET. In the window that appears, choose Flash card or jump drive and press SET.

8. Find your design in the list. Any DST & TAP designs will show automatically in a list on the right. Choose your design with the blue arrow keys and press SET.

9. Press ESC to return to the main (drive) screen. Once the design is imported from the READ screen, press the ESC button until you’ve returned to the main Drive screen, where image of your design should now appear. (The next step will be to set the colors in the Needle screen.)

NEXT: CHAPTER 3: SEWING CHECKLIST, UPPER TENSION TEST