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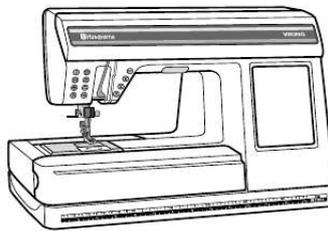
You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA VIKING. You'll find the answers to all your questions on the HUSQVARNA VIKING in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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 Husqvarna

VIKING

SERVICE MANUAL



Designer I
Designer II
Quilt Designer

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Manual abstract:

@@Belt tension, arm/lower shaft belt 4. Belt tension, motor belt 5. Setting the feeding unit sideways 6. Basic setting - the step motor of the needle 7. Setting of the needle in relation to the presser foot 8. The gap between the needle and the hook 9. The timing of the hook in relation to the needle 10. The needle height 11. @@@@14. The sideways setting of the stitch plate (the hook cover) in relation to the presser foot.

15. The height of the hook 16. Pre-setting of the step motor for the side feeding 17. Setting the feeding mechanism sideways 18. Feed dog height 19. Threading device 20. Stitch length balance basic setting 21. Pre-setting the step motor of the feed dog 22. Stitch length balance 23. @@Upper thread tension - Position "Embr/Dec" - Designer I 25.

@@@Upper thread guard sensor 27. Setting the thread take-up spring 28. Disconnection when winding the bobbin 29. @@Upper thread tension and Pivot position Functions of the Service Menu 4 - Designer II Log menu Calibration of the touch panel - Designer II Update of the memory - Designer II (Read & write unit) Service program for Quilt Designer Functions of the service menu 2 - Sensor check Function of the Service menu 1 Functions of the service menu 3 - Quilt Designer 2 4 4 5 6 7 8 9 9 10 11 13 14 15 16 17 17 18 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 40 41 42 43 44 47 47 48 48 48 49 50 51 54 54 55 104 72 53-26 Upper thread tension - Pivot position Functions of the Service Menu 4 - Log menu Calibration of the touch panel - Quilt Designer Update of the memory - Quilt Designer (Read & write unit) DEMOUNT AND MOUNTING Upper rear cover Lower rear cover Front cover - Designer I Parts of the front cover - Designer I Front cover - Designer II and Quilt Designer Parts of the front cover - Designer II and Quilt Designer Presentation Unit Presentation Unit - d-Card Connection board Presentation Unit - Display board Touch Panel Base Plate Transformer- Designer I, Designer II Transformer- Quilt Designer Circuit board - Circuit diagram - Designer I Circuit board - Circuit diagram - Designer II Circuit board - Circuit diagram - Quilt Designer Stop right circuit board Sewing head The step motor of the needle The step motor of the presserfoot lifter The thread tension compl. The hook cover compl, step motor house. Parts of the hook cover compl.- Designer I and Designer II Feeding unit Feed dog. The side feeding mechanism complete The side feeding mechanism step motor The feeding unit step motor Hook compl. Bobbin winding device Cover Y-slide Step motor cover Cover upper part Cover lower part Locker switch EMBROIDERY UNIT Embroidery unit - X-unit Belt tension Calibration of the end position, X-unit. Embroidery unit - Y-unit Belt tension Calibration of the end position, Y-unit.

Hoop holder The hoop sensor. Step motor, Y-unit Step motor, X-unit FAULT FINDING Fault finding diagram D I Fault finding diagram D II Fault finding diagram D I / DII Fault finding diagram D I / DII Fault finding diagram D I / DII 55 55 56 57 58 58 59 60 61 62 62 62 62 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 78 79 80 81 82 82 83 83 83 84 84 84 85 85 85 86 86 87 87 88 89 90 91 92 104 72 53-26 3 Directions for use These service instructions are intended to be used by service workshop personnel, or by salesmen who carry out servicing their own districts. They assume a thorough knowledge of the handling of precision appliances and accessibility to service tools. The manual is divided into two sections and covers all service operations and checks which should be carried out when making a complete overhaul of a sewing machine. The first section deals with the various settings which must be maintained to ensure that the machine functions satisfactorily. The second section covers dismantling and mounting instructions. The diagrams only give indication as to where the detail or mechanism is located in the machine. For more detailed information regarding the construction, etc., refer to the diagrams in the spare parts list. ESD ATTENTION! It is of the utmost importance that precautions are being taken in order to avoid damage of the electronics by electro static discharges ESD (=Electro Static Discharge).

To avoid that these errors arise it is important to handle loose circuit boards in a controlled way. Always use wrist band 412 23 02-01 when servicing. 4 104 72 53-26 Service tools A reasonable requirement in a domestic sewing machine is that it should be able to sew all types of fabrics used in the home. The settings made when assembling and sewing-in the machines are those most suited to give the best results in the majority of fabrics and fabric combinations. In doing so, consideration has been given to the requirements of different markets.

This does, however, mean that when sewing extreme fabrics, better results may be obtained in certain cases by altering the settings. It must be pointed out that these altered settings can cause poorer results on more normal fabrics. How the different standard ratings are set can be seen from the description under each setting instruction. The following list of setting gauges and service tools is intended as an instruction about the special service tools needed to servicing this machine. 1.

On several different occasions the needle is used as a setting gauge. The setting ratings are adapted to needle 90. Make sure to use an undamaged needle. 2. Gauge for setting the timing of the hook in relation to the needle . Ref. No 411 17 52-01. 3. Gauge for the feed dog lift. Ref.

No 411 49 93-01. 4. Gauge for the needle height . Ref. No 412 35 29-01. 5. Adam key - Shortened 2.5 mm Ref. No 412 27 65-01 6. Adam Key 2 mm Ref. No 411 86 00-01 7. Adam key 1.5 mm Ref. No 411 66 89-01 8. Distance gauge 0. 05-1,00 mm Ref: No. 412 38 85-01 9. Angel key Torx 6 Ref No 412 27 67-01 10. Angel key Torx 8 Ref No 412 68 04-01 11. Screwdriver Torx 10 Ref. No 412 36 48-01. 12. Screwdriver Torx 20 Ref. No 412 36 49-01. 13. Screwdriver Torx 25 Ref. No 412 36 50-01 14. Cable for service -Designer I Ref. 412 66 04-01 16. Service d-Card Designer II and Quilt Designer Ref.

412 66 96-01 104 72 53-26 5 15. Calibration of touch panel Ref. No 412 22 33-01 SETTINGS 23 6 104 72 53-26 Settings 1. The play of the hook gear It is impossible to obtain an equally large play in one rotation of the cog wheel, but it should be as small as possible at the tightest spot during the revolution. Check 1. Rotate the hook back and forth and check the play. 2. Do this check on at least 3 different spots during the revolution of the cog wheel. (Move the cog wheel with the hand wheel). Adjustment 1.

Loosen, screw (A) in the bearing clamp 2. The play can now be adjusted by turning the eccentric bearing (C). NOTE! The hole (B) in the bearing shall always be on the lower half. 104 72 53-26 7 Settings 2. Setting the hook in relation to the feeding eccentric (after feeding) Check 1. The needle shall be in its centre position, straight stitching. 2. Set the tip of hook (A) so is centred behind the needle, the tap of the worm gear should now be positioned according to fig.



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1. Note! The position of the upper pin shall be aligned with the frame opening.

Alt. Check 1. When the two taps of the worm gear are positioned according to fig. 1 the tip (A) of the hook should point straight backwards. Note! The position of the upper pin shall be aligned with the frame opening. Adjustment 1. Loosen screw (B). Remove the hook and set it into its correct position. Note! The position of the upper pin shall be aligned with the frame opening. 8 104 72 53-26 Settings 3.

Belt tension, arm/lower shaft belt 1. Dismount rear cover and front cover. 2. Dismount the bobbin winding device. 3. Loosen the two screws (A) of the bearing clamps. 4. The belt tension can now be adjusted by turning bearing (B) which is eccentric. NOTE! The hole (C) should always be on the front half. 4.

Belt tension, motor belt 1. Dismount rear cover . 2. Loosen the 2 screws (A) and adjust the belt tension by displacing the motor. NOTE! The adjustment of the arm/lower shaft belt affects this adjustment.

104 72 53-26 9 Settings 5. Setting the feeding unit sideways Check 1. The distance A and B shall be equal between the screw (C) and the edge of feeding device shaft (D). Adjustment 1. Loosen the 2 screws in the feeding device.

2. Move the feeding device sideways until the distance A and B is equal between the screws (C) and the edge of feeding device shaft (D) 3. Tighten the screws. 10 104 72 53-26 Settings 6. Basic setting - the step motor of the needle Check 1. Insert a new needle size 90 universal in the machine. 2. Set the needle in its upper turning position. 3. The needle should always get to the centre position, when the main switch is turned on repeatedly.

Check Go to the service program of the machine. The needle should be in its upper turning position. Needle point Touch Needle - The needle should now take its centre position in the presser foot. Touch Needle - The needle shall now take its left position. The gap between the segment (A) and the calibration stop (B) should now be zero (0 mm). Note! The position of the eccentric. 104 72 53-26 11 Settings Adjustment Go to the service program of the machine. The needle should be in its highest position. Touch Needle Loosen screw (E) in the cog wheel (D) on the step motor shaft. Turn the cog wheel until the needle is in the centre of the presser foot.

Touch Needle Loosen screw (F) in the calibration stop (G) and turn it until the gap is correct (0mm). Note! The position of the eccentric. Touch Needle - , row 1 . Turn the screw (H) until the gap is correct (0 mm). This setting is only a sideways limitation.

Touch Needle , row 1 The needle should now take its centre position into the needle hole of the presser foot. 12 104 72 53-26 Settings 7. Setting of the needle in relation to the presser foot Check Insert a new needle size 90 universal in the machine. When the machine is set at straight stitching centre position, the needle bar shall be set in such a way that a needle 90 passes through the centre of the needle hole in the presser foot. 1 = seen from the front 2 = seen from the side 1 2 Adjustment 1.

Turn on the main switch Keep the machine set at straight stitching centre position alt. service menu 1, touch Needle, Needle point 2. Loosen the two screws (A) and (B). Move the needle bar with the two eccentric screws (C) or (D) until the requirement is obtained. - The length movement is adjusted by moving the eccentric screw (C) - The side movement is adjusted by moving the eccentric screw (D) 3. Tighten the screws (A) and (B). 4. Check the setting by turning the main switch on and off a couple of times. NOTE! "The Setting of the needle in relation to the presser foot" affects the function of "6. Basic setting - the step motor of the needle".

104 72 53-26 13 Settings 8. The gap between the needle and the hook Check 1. Set the machine on straight stitching. 2. Insert a new needle size 90 universal in the machine. 3. Rotate hand wheel until the tip of the hook arrives behind the needle. Check the gap by pressing a small screw driver against the needle.

The gap should be as small as possible, but max 0.15 mm.

Adjustment If the gap is too large: 1. Loosen the screw (A). 2. Turn screw (B) clockwise until the needle touches the tip of the hook 3. Turn screw (A) until the gap is correct If the gap is too small: 1.

Loosen the screw (B) 2. Turn screw (A) to make the gap larger an 05 mm. The check is carried out at the tightest spot between the bobbin case and the case holder. Check at the two marked positions according to fig. 1.

Adjustment 1. Loosen screw (A). 2. The gap between the hook and its cover can now be adjusted by turning the stud (C) right or left. - To the right, the gap becomes larger. - To the left, the gap becomes smaller.. 3. When the adjustment is done. Remove stitch plate, bobbin case holder and bobwill be obtained.

Check 2 Get into the service program. Turn the hand wheel until the needle arrives at its lower turning position. Touch FeedThe gap between the segment (C) and the calibration stop (B) should now be Zero (0 mm). Adjustment 1. Touch Feed.Loosen the screw (A) of the cog wheel and turn it until the feed dog comes to a stand-still when the foot control is pressed. Turn the hand wheel until the needle arrives at its lower turning position Touch FeedLoosen screw (E). Turn the eccentric calibration stop (B) until the gap between segment (C) and the calibration stop (B) is 0 mm. Check by first turn the hand wheel until the needle arrives at its lower turning position. then touch Needle several times.

The motor should now run smoothly and the gap should remain 0 mm. 104 72 53-26 25 Settings 22. Stitch length balance Check A Both columns of the buttonhole should be of the same density. B The machine should sew a motif according to the symbol. C The mending stitch should look according to the illustration.

(Use the mending stitch in the service menu - touch , row 5) Fine adjustment Touch , row 5 in the service menu 1. Turn screw (A) until the machine sews a mending stitch according to the illustration. This adjustment may be done without dismantling the covers (see illustration.). 26 104 72 53-26 Settings 23.

Lower thread tension (thread tension of the bobbin case) Check 1. Insert a full bobbin into the bobbin case. 2. The thread tension spring of the bobbin case shall give a resistance of 12 - 20 g when pulling the thread slowly. Adjustment 1. Turn screw (A) until the correct thread tension is obtained. NOTE ! Before any adjustment is made remove any loose pieces of thread or fluff from the thread tension discs 104 72 53-26 27 Settings 24. Upper thread tension - Position "Norm" - Designer I Norm is for setting the higher upper thread tension Check A correct take-up should be obtained on straight stitch and zig-zag when the sewing advisor is set on woven medium. Comment 1 The sewing advisor adjusts the thread tension according to the selection of fabric and sewing technique.



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This is done by means of the computer and the thread tension step motor.

Comment 2 The thread tension that is set in the set menu is to be regarded as a general indication. This general indication can be raised and lowered by means of the thread tension buttons in the Set menu and remains until the machine is turned off. Adjustment 1. Get into the service program and select . 2. To adjust the HIGHER upper thread tension e.g on straight stitching or zick-zack sewing use "Norm" and adjust with or . 3. "Norm" adjustments can be done between -10 and +10 if embroidery thread tension (Embr/Dec) is set on 0 (zero). If "Embr/Dec" is not set on 0 (zero) there are limitations in the setting. The value of the setting could be higher or lower than -10 or +10. The adjustment is automatically saved. NOTE ! Before any adjustment is made, remove any loose pieces of thread or fluff from the thread tension discs. 28 104 72 53-26 Settings 24. Upper thread tension - Position "Norm" Designer II and Quilt Designer "Norm" is for setting the higher upper thread tension.

Check A correct take-up should be obtained on straight stitch and zig-zag when the sewing advisor is set on woven medium. Comment 1 The sewing advisor adjusts the thread tension according to the selection of fabric and sewing technique. This is done by means of the computer and the thread tension step motor. Comment 2 The thread tension that is set in the set menu is to be regarded as a general indication. This general indication can be risen and lowered by means of the thread tension buttons in the Set menu and remains until the machine is turned off.

Adjustment 1. Get into the service program and select . 2. To adjust the HIGHER upper thread tension e.g straight stitching or zick-zack sewing use "Norm" and adjust with or . 3. "Norm" adjustments can be done between -10 and +10 if embroidery thread tension (Embr) is set on 0 (zero). If "Embr/Dec" (Designer II), "Decor" (Quilt Designer) is not set on 0 (zero) there are limitations in the setting. The value of the setting could be higher or lower than -10 or +10. The adjustment is automatically saved.

NOTE ! Before any adjustment is made remove any loose pieces of thread or fluff from the thread tension discs 104 72 53-26 29 Settings 25. Upper thread tension - Position "Embr/Dec" - Designer I Embr/Dec is for setting the lower upper thread tension. Check A correct take-up should be obtained on at embroidery stitch (e.g.embroidery stitch No 1, menu 4 on Disk 100 Designer 1 Sampler). Comment The following embroidery threads shall be used: Upper thread :Thread thickness No 40 (e.g. Sulky No 40) Lower thread: Thread thickness No 70 (e.g. Sulky bobbin 100) Adjustment 1.

Go to the service program and select . 2. To adjust the LOWER upper thread tension on the embroidery or decorative sewing use "Embr/Dec" and adjust with or . 3. "Embr/Dec" adjustments can be done between -10 and +10 if normal thread tension - "Norm" is set on 0 (zero).

If "Norm" is not set on 0 (zero) (e.g +2) there are limitations in the setting. The value of the setting could be higher than +10. The adjustment is automatically saved. NOTE ! Before any adjustment is made, remove any loose pieces of thread or fluff from the thread tension discs 30 104 72 53-26 Settings 25.

Upper thread tension - Position "Embr/Dec" - Designer II Embr/Dec is for setting the lower upper thread tension. Check A correct take-up should be obtained on at embroidery stitch (e.g.embroidery stitch "Embr 1 " or Embr 2" on the service cassette). Comment The following embroidery threads shall be used: Upper thread :Thread thickness No 40 (e.g. Sulky No 40) Lower thread: Thread thickness No 70 (e.g. Sulky bobbin 100) Adjustment 1. Go to the service program and select .

. 2. To adjust the LOWER upper thread tension on the embroidery or decorative sewing use "Embr/Dec" and adjust with or . 3. "Embr/Dec" adjustments can be done between -10 and +10 if normal thread tension - "Norm" is set on 0 (zero). If "Norm" is not set on 0 (zero) (e.g +2) there are limitations in the setting. The value of the setting could be higher than +10. The adjustment is automatically saved. NOTE ! Before any adjustment is made, remove any loose pieces of thread or fluff from the thread tension discs 104 72 53-26 31 Settings 25.

Upper thread tension - Position "Decor" - Quilt Designer "Decor" is for setting the lower upper thread tension. Check A correct take-up should be obtained on a stitch that is sewn with the lower upper thread tension, e.g. a Application stitch or a Decorative stitch . Adjustment 1.

Go to the service program and select .. 2. To adjust the LOWER upper thread tension on a application or a decorative sewing use "Decor" - Quilt Designer and adjust with or . 3.

"Decor" adjustments can be done between -10 and +10 if normal thread tension - "Norm" is set on 0 (zero). If "Norm" is not set on 0 (zero) (e.g +2) there are limitations in the setting. The value of the setting could be higher than +10. The adjustment is automatically saved. NOTE ! Before any adjustment is made, remove any loose pieces of thread or fluff from the thread tension discs 32 104 72 53-26 Settings 26. Upper thread guard sensor Check When the upper thread is finished or breaks the machine will stop. This is done by means of a photo-diode (B) on the push button board which reads the movement on the screen (C) which moves simultaneously with the thread take-up spring (D). The machine must be threaded in order to activate the upper thread guard sensor. Upper thread guard sensor check.

Go to service program. For Designer I Select in order to check. For Designer II Select "Menues-Sensor" in order to check. The function of the upper thread guard sensor is indicated by a square. Check that the square alternates between filled and not filled when moving the thread take-up spring. Dismounting 1. Remove the thread tension cover by taking a firm grip on the top of the cover (A) and then carefully pulling it away from the front cover. 2. Remove the push button board by disconnecting it from the cable . NOTE ! The setting of the thread take-up spring affects the function of the upper thread sensor.

104 72 53-26 33 Settings 27. Setting the thread take-up spring Check The thread take-up spring should have completed its movement when the needle eye reaches the fabric. The check has to be carried out in straight stitching in cotton. Adjustment 1. Remove the thread tension cover by taking a firm grip on the top of the cover and then carefully pulling it away from the front cover.

2.Turn the thread tension peg (A) with a screw driver until a correct thread take-up is obtained. NOTE! The setting of the thread take-up spring affects the function of the upper thread guard sensor.



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34 104 72 53-26 Settings 28. Disconnection when winding the bobbin Check When winding up the lower thread onto the bobbin the machine should stop when there is a min.

of 1 mm between the edge of the bobbin and the thread. Adjustment Turn by means of a screwdriver torx the disconnection (A) until the correct amount of thread is obtained. 104 72 53-26 35 Settings 29. Pivot height Check When the embroidery presser foot "R" is in its "Pivot" position the distance between the lower side of Embroidery presser foot "R" and the stitch plate should be 1,25 mm +/-0,15 mm. Adjustment 1. Mount the embroidery presser foot "R" on the machine and lower the feed dog 2. Go to the service program 3. Touch so the presser bar takes its "pivot" position. or ,row 3. and use the "Pivot" buttons 4.

To adjust the distance on Designer I use the "Pivot" buttons To adjust the distance on Designer II and Quilt Designer Touch or . The adjustments can be done between -9 and +9. To check the adjustment, bring the presser bar first to it's highest position by Touch or button. . so the presser bar takes its "pivot" position again. Touch then 5. Check the distance between the lower side of Embroidery presser foot "R" and the stitch plate so it's 1,25 mm +/-0,15 mm. The adjustment is automatically saved when turning off and on the machine 1,25 mm +/-0,15 mm 36 104 72 53-26 Service Program - Designer I Service program - Designer I In order to facilitate the checking and setting of the different functions of the machine there is a service program. Press Handling Go to the service program of the machine by pressing the reverse feed button and the sensor foot pivot button while the main switch (A) is switched on. The display will now show the Designer I service menu 1.

See illustration below. 104 72 53-26 37 Service Program - Designer I Service program - Designer I Functions of the service menu 1. On the top of menu The revision of the program Service Menu 1 Row 1 Needle/Feed Toucharea Cal 0 Upper needle position - Checking the centre position of the needle step motor.

@@Lpos Is used for pre-setting the step motor of the needle. The step motor of the needle now takes its left calibration position.

Opos Is used when setting the centre position of the needle. The step motor of the needle is now in its centre position. Rpos Is used for pre-setting the stepmotor of the needle. @@0 pos C pos @@Is used when pre-setting the feeding step motor. The step motor now takes its calibration position.

Needle Needle Needle Feed Feed Service Menu 1 Row 2 Side motion Side motion Tension LCD Contrast LCD Contrast Touch 38 Toucharea L R Menu + Cal Left position. Right position. Setting of the thread tension. (The machine will enter Service Menu 3) The contrast of screen. The contrast of screen. Calibration of the touch display. 104 72 53-26 Service Program - Designer I Service Menu 1 Row 3 Pivot-sewing head Pivot- sewing head Embroidery Unit Embroidery Unit Toucharea Sewing heads Pivot minus function + Sewing heads Pivot plus function Cal Is used to check the sideways and lengthwise movement of the embroidery unit. Cent The embroidery hoop sensor arm takes its centre position. Disp Display test. A square pattern shall change between blue, red and green.

After the check is done the machine will automatically enter the service menu 1 again. Menu Sensor check. (The machine enters Service Menu 2). Sensors Service Menu 1 Row 4 Toucharea Servo Cal 2,5x0 4,0x0 6,0x0 4x4 6x6 Sewing head - Presser bar takes its highest position. The machine sews straight stitch 2,5 mm. The machine sews straight stitch 4 mm. The machine sews straight stitch 6 mm. The machine sews a zig zag stitch 4x4 mm. The machine sews a zig zag stitch 6x6 mm.

Service Menu 1 Row 5 1 2 3 4 5 Toucharea 1 = SM The machine sews a side motion stitch. 2= 3= Is used for fine-adjusting the stitch length balance. The machine now sews a pre-programed mending stitch. 4= 5 = BPRS The machine sews signs B,P,R,S. 6 = Embr 1 The machine sews the first embroidery on an inserted Embroidery disk.

6 Service Menu 1 Row 6 1 2 3 4 5 6 Toucharea 1 = 2x4 The machine sews a zig zag stitch 2x4 mm. 2 = 0,4x6 The machine sews a zig zag stitch 0,4x6 mm. 3= 4= 5 = Embr 2 The machine sews the second embroidery on an inserted Embroidery disk. 6 = Embr 3 The machine sews the first embroidery on an inserted Embroidery disk. 39 104 72 53-26 Service Program - Designer I Functions of the service menu 2 - Designer I -Sensor check Operation Get into the service program, touch Sensor- on Row 3 Active square is filled Check of armshaft's first sensor (stop right function) Check of armshaft's second sensor (stop right function) Check of needle Check of presserfoot's first sensor Check of presserfoot's second sensor Check of lower thread guard indicator Check of upper thread guard indicator Check if embroidery unit is connected Embroidery hoop sensor- Indicates when sensor is on calibration mark The bobbin winding sensor The bobbin winding sensor -Indicates when bobbin is wounded.

Button hole sensor check On-Time Sew-Time Embr-Time Indicates how many hours and minutes the machine has been switched on. Indicates how many hours and minutes the machine has been sewed on. Indicates how many hours and minutes the machine has been embroidered on. Clr- Used to erase everything programed in the programmable memories of the machine Back to service menu 1 40 104 72 53-26 Service Program - Designer I Functions of the service menu 3 - Designer I - Upper thread tension To facilitate the setting of the upper thread tension there is an electronic adjustment in the Service menu 3. Operation Get into the service program.Touch , row 2. The machine will enter Service Menu 3. Tension Norm -Blue Is used for adjustment of the HIGHER upper thread tension at normal sewing . The value is normally set between +10 and -10. @@Note! There are limitations in the setting.

The value of the setting could be higher then +10 or lower then -10 . Tension Embr/Dec- Red Is used for adjustment of the LOWER upper thread tension at embroidery and decorative sewing.The value is normally set between +10 and -10. @@There are limitations in the setting. The value of the setting could be higher +10. 104 72 53-26 41 Service Program - Designer I Calibration of the touch panel - Designer I How to synchronize the touch area of the touch panel with the symbols on the screen. Go to the service program of the machine. Press the needle stop button or touch Touch ,row 2 in the service menu 1. 1. Touch with a blunt object in the center of cross 1, indicated First calibration mark on the illustration.

When the colour changes from black to green the first calibration of the touch panel is set. 2. Touch with a blunt object in the center of cross 2, indicated Second calibration mark on the illustration.



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When the second and final calibration of the touch panel is set the machine will now automatically enter the service menu 1. First calibration mark Second calibration mark Set the calibration of the touch panel with gauge 412 22 33-01 NOTE! If a touch panel is replaced the new must always be re-calibrated. 42 104 72 53-26 Service Program - Designer I Update of the memory - Designer I The Designer I has a memory in which the characteristics and stitches of the machine are stored. In order to update the memory the machine has an update mode. The program memory on Designer I is updated through a floppy disc. Revision of the program The revision of the program can be seen in the lower right side of welcome screen or checked in the service program menu 1

How to update 1. Insert the disk with the new memory information in the floppy disk drive.

2. Go to the update mode of the machine by pressing the start/stop button and the stitch re-start button as the main switch (A) is turned on. Press 3. The memory will now automatically be updated. 4. When the memory of the machine is correctly updated RESTART is indicated on the screen. Then... -Turn off the machine.

-Remove the Floppy disk. 5. Re-start the machine and check the revision (see above). NOTE! @@104 72 53-26 43 Service Program- Designer II Service program Designer II In order to facilitate the checking and setting of the different functions of the machine there is a service program that is used together with the Designer II service cassette. Press Handling Insert the Designer II service card in the machine and go to the service program of the machine by pressing the reverse feed button and the sensor foot pivot button as the main switch (A) is switched on. The display will show the Designer II service menu 1, See illustration below. 44 104 72 53-26 Service Program - Designer II Service program - Designer II Functions of the service menu 1. Service cassette Row 1 Needle Toucharea Cal 0 Upper needle position - Checking the centre position of the needle step motor. @@Is used for pre-setting the needle stepmotor. @@Is used when setting the centre position of the needle.

The step motor of the needle is now in its centre position. Is used for pre-setting the needle stepmotor. @@@@Is used when pre-setting the feeding step motor. The step motor now takes its calibration position. Needle Lpos Needle Needle Opos Rpos Feed Feed 0 pos C pos Service cassette Row 2 SIDE-M Servo On/off Cal Menues Sens Tens/Pivot To Service menu 2 - Sensor check To Service menu 3 -Setting the upper thread tension -Setting the height of the Sewing heads pivot function.

To Service menu 4 - Time function of the machine Sewing head - Pivot function ON / OFF. Sewing head takes its calibration position. Toucharea L R Side motion - Left position Side motion - Right position Log broidered on. 104 72 53-26 L Left position. 45 de motion Service Program - Designer II Service cassette Row 3 X-Y X-Y Lcd-Contr Lcd-Contr Display test.

Toucharea Test Is used to check the sideways and lengthwise movement of the embroidery unit. Cent The embroidery hoop sensor arm takes its centre position. + Increases the light in the LCD Decreases the light in the LCD Disp The Display shall change between 4 different squared pattern, after the check is done the machine will go back to the latest choosen menu or Service menu. Mem / Rst is used to erase everything programed in the programmable memories of the machine Service cassette Row 4 1 2 3 4 5 6 7 8 9 2 3 4 5 6 7 8 9 Toucharea 0x0 @@2,5x0 The machine sews straight stitch 2,5 mm. 4.0x0 The machine sews straight stüch 4 mm. 6,0x0 The machine sews straight stüch 6 mm. 4x4 The machine sews a zig zag stüch 4x4 mm. 6x6 The machine sews a zig zag stüch 6x6 mm. @@Hem Mend Is used for fine-adjusting the stitch length balance.

The machine now sews a pre-programed mending stüch. MM Rep The machine sews signs B,P,R,S. @@@@Sect.frw Sect.rev Hoop Bob.w. Bob.w.s. Buttonhole s.

@@@@@Operation Get into the service program. Touch Menues row 2. @@The value is normally set between +10 and -10. @@Note! There are limitations in the setting. @@@@There are limitations in the setting.

@@@@The value is normally set between +9 and -9. @@@@Get into the service program of the machine. @@@@Indicated as the First calibration mark on the illustration. 2. @@@The second calibration mark is the red cross on the Service card.

3. @@@NOTE! @@In order to update the memory the machine has an update mode. @@@@NOTE! @@@@1. Insert a programmable d-Card in the d-Card reader/writer unit. 2. Go to the Husqvarna Viking update page on the Internet. Click on the Designer II update icon. 3. A update program will start. Follow the instructions in the program.

4. @@@@Then... -Turn off the machine. -Remove the d-card. 5. Re-start the machine and check the revision (see above). NOTE! @@@@@@@Is used for pre-setting the needle stepmotor. @@Is used when setting the centre position of the needle.

The step motor of the needle is now in its centre position. Is used for pre-setting the needle stepmotor. @@@@Is used when pre-setting the feeding step motor. @@Sewing head takes its calibration position. Toucharea L R Side motion - Left position Side motion - Right position broidered on.

L Left position. 104 72 53-26 52 de motion Service Program - Quilt Designer Service cassette Row 3 Toucharea Test Cent + Disp X-Y X-Y Lcd-Contr Lcd-Contr Display test. ---Increases the light in the LCD Decreases the light in the LCD The Display shall change between 4 different squared pattern, after the check is done the machine will go back to the latest choosen menu or Service menu. Mem / Rst is used to erase everything programed in the programmable memories of the machine Service cassette Row 4 1 2 3 4 5 6 7 8 Toucharea 0x0 @@2,5x0 The machine sews straight stitch 2,5 mm. 4.

0x0 The machine sews straight stitch 4 mm. 6,0x0 The machine sews straight stitch 6 mm. 4x4 The machine sews a zig zag stüch 4x4 mm. 6x6 The machine sews a zig zag stüch 6x6 mm. 0,4x6 The machine sews a zig zag stüch 0,4x6mm 2x4 The machine sews a zig zag 2x4 mm --9 1 2 3 4 5 6 7 8 9 Service cassette Row 5 Toucharea 1 2 3 4 5 6 7 8 9 SM Hem Mend MM Rep Embr 1 Embr 2 Embr 3 --- 1 2 3 4 5 6 7 8 9 The machine sews a side motion stüch. --Is used for fine-adjusting the stitch length balance. The machine now sews a pre-programed mending stüch. The machine sews signs B,P,R,S. ----- 104 72 53-26 53

Service Program - Quilt Designer Function of the Service menu 1 The revision of the program memory Functions of the service menu 2 - Sensor check Operation Get into the service program, touch Menues Sens on Row 2 Active square is filled Armshafi1 Armshafi2 Needlefeed P-foot 1 P-foot 2 Sect.frw Sect.

rev Bob.w. Bob.w.s. Buttonhole s. Back Check of armshafi's first sensor (stop right function) Check of armshafi's second sensor (stop right function) Check of needle Check of presserfoot's first sensor Check of presserfoot's second sensor The bobbin winding sensor The bobbin winding sensor -Indicates when bobbin is wounded.



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Button hole sensor check Back to service menu 1 54 104 72 53-26 Service Program - Quilt Designer Functions of the service menu 3 - Quilt Designer Upper thread tension - Pivot position To facilitate the setting of the upper thread tension there is an electronic adjustment in the Service menu 3. Operation Get into the service program. Touch Menues row 2.

The machine will enter Service Menu 3. Tension "Norm" Is used for adjustment of the HIGHER upper thread tension at normal sewing . The value is normally set between +10 and -10. @@Note! There are limitations in the setting. The value of the setting could be higher then +10 or lower then -10 .

Tension "Decor" Is used for adjustment of the LOWER upper thread tension at decorative sewing. The value is normally set between +10 and -10. @@There are limitations in the setting. @@The value is normally set between +10 and -10. @@the pressarbar must be re-calibrated before the setting has any affect.

Functions of the Service Menu 4 - Log menu On time Sew-Time Indicates how many hours and minutes the machine has been on Indicates how many hours and minutes the machine has been sewed on 104 72 53-26 55 Service Program - Quilt Designer Calibration of the touch panel - Quilt Designer How to synchronize the touch area of the touch panel with the symbols on the screen. Get into the service program of the machine. @@@@Indicated as the First calibration mark on the illustration. 2. @@The second calibration mark is the red cross on the Service card. 3. @@@NOTE! The Third calibration mark will only appear in the display when the second calibration mark is calibrated. First calibration mark Third calibration mark Second calibration mark Set the calibration of the touch panel with gauge 412 22 33-01 56 104 72 53-26 Service Program- Quilt Designer Update of the memory - Quilt Designer (Read & write unit) The Quilt Designer has a memory in which the characteristics and stitches of the machine are stored. In order to update the memory the machine has an update mode. The program memory on Quilt Designer is updated through the Programmable d-Card.

Revision of the program The revision of the program can be seen in the middle of the welcome screen or checked in the service program menu 1. How to transfer the Quilt Designer program memory to a programmable d-Card A d-Card reader/writer is needed to transfer the program memory to programable d-Card. The latest version of the Quilt Designer program memory can be found on Husqvarna Vikings Internet page. NOTE! All data that is stored on the programmable d-Card will be erased when the Quilt Designer program memory is transferred to the programmable d-Card. @@1. Insert a programmable d-Card in the d-Card reader/writer unit. 2. Go to the Husqvarna Viking update page on the Internet. Click on the Quilt Designer update icon. 3. A update program will start. Follow the instructions in the program. 4. @@Insert the programmable d-Card with the new memory information in the d-Card reader in the machine. 2.

Get into the update mode of the machine by pressing the presser foot down button and the stitch re-start button while the main switch (A) is turned on. 3. The memory will now automatically be updated. Press 4. When the memory of the machine is correctly updated RESTART is indicated on the screen. Then... -Turn off the machine. -Remove the d-Card. 5. Re-start the machine and check the revision (see above). NOTE! @@104 72 53-26 57 Covers Upper rear cover 1. Remove the five screws (A). 2.

Remove the two screws (B). 3. Remove the screw (C). Lower rear cover 1. Remove the screw (D). 2. Remove the lower rear cover pulling it backwards on the right-hand side and at the same time push the front covers upper and lower side of the free arm together. 3. Remove the socket of the embroidery unit by bending it away from the snap in the in the cover with a screwdriver on the corner behind the socket. 58 104 72 53-26 Covers Front cover - Designer I Dismounting 1.

Dismount the rear covers. 2. Remove the button for the bobbin winding sensor stop, by pulling it straight out. 3. Remove the two screws (B) from behind. 4. Remove the two screws (C) in the base plate. 5. Turn the hand wheel until the needle is in its lowest position, so the thread take up lever is out of the way. 6. @@NOTE! @@7. @@8. @@9. @@10. Remove the two cables (H) and (I) of the push button assembly . 11. Remove the cable (K) of the thread tension. 12 Remove the cable (M) of the lamp. 13. Remove the earth cable from the LCD frame.

@@Dismont the rear covers 2. Dismount the front cover. 3. @@4. Remove the LCD light cable (E) 5. Remove the LCD by dismounting the 4 screws (C). Mounting Mount in reverse order. Note! @@NOTE! @@Dismont the rear covers 2. Dismount the front cover. 3.

@@Remove the transformer box by dismounting the screw (B). 5. Remove the Floppy disk drive by dismount the 3 screws (D). 6. Remove the cable from the floppy disk drive.

Mounting Mount in reverse order. NOTE! @@Dismount the rear covers. 2. Remove the button for the bobbin winding sensor stop, by pulling it straight out. 3.

Remove the two screws (B) from behind. 4. Remove the two screws (C) in the base plate. 5. Turn the hand wheel until the needle is in its lowest position, so the thread take up lever is out of the way. 6. @@NOTE! @@7. Remove the cable (F) of the presentation unit. 8. Designer II : Remove the two cables (H) and (I) of the push button assembly .

Quilt Designer: Remove the cable (I) of the push button assembly . 9. Remove the cable (K) of the thread tension. 10. Remove the cable (M) of the lamp. 11. Remove the earth cable from the LCD frame. Mounting Mount in reverse order 104 72 53-26 61 Covers Parts of the front cover - Designer II and Quilt Designer Presentation Unit Dismounting 1. Dismont the rear covers 2. Dismount the front cover.

3. Remove the Touch screen cable (A) by pulling the cable down. 4. Dismount the 4 screws (B) and then remove the Spring (C) and the Presentation unit from the front cover. Mounting Mount in reverse order.

Note! The Touch Panels ESD-cable should be located under the spring (C). B Presentation Unit - d-Card Connection board 1. Remove the cable between the Display Board and d-Card connecting board 2. Remove screw (D) and the holder (E) and remove the memory connecting board. Mounting Mount in reverse order.

B H J F A G H E D Presentation Unit - Display board 1. Remove the cable between the Display Board and d-Card connecting board 2. Remove the LCD cables (F) and (G) by pulling the outer covering of the black switch outwards. 3. Remove three screws (H) and the holder (J) and remove the memory connecting board. Mounting Mount in reverse order. B C B Touch Panel Dismounting Touch Panel can be removed first after dismounting of the Presentation unit. Mounting Mount In reverse order When mounting the Touch Panel, please check so it's correctly inserted against the frontcover. Note! The cut corner of the Touch Panel must be placed on the upper left side in the frontcover.



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NOTE! When a Touch panel is changed the new one must be re-calibrated.

62 104 72 53-26 Dismantling and mounting Base Plate Dismounting 1. Dismount the upper and lower rear cover. 2. Dismount front cover. 4. Dismount the 2 screws (A) for the transformer. 3. Dismount the 3 screws (B). 104 72 53-26 63 Dismantling and mounting Transformer- Designer I, Designer II Dismounting

1. Dismount upper rear cover.
2. Loosen the two screws (A) of the transformer from below in the base plate. 3. Push the transformer to the right so that the mains switch part is exposed from the base plate and lift it upwards. 4.

Unhook the cable to the circuit boards from the transformer. Checking the transformer Connect the transformer to mains. Measure the tension and resistance between the contact pins. 1 shall be approx. + 5 Volt computer.

2-3 - Grounding 4-5 shall be approx. + 26 Volt Step motor, drive motor. 6-7 shall be approx. 100-0 k Ohm Foot control connected NOTE! The Transformer is a switched mode type power supply and can operate between 100-240 volt and 50-60 Hz. 64 104 72 53-26 Dismantling and mounting Transformer- Quilt Designer Dismounting 1. Dismount rear cover . 2. Loosen the two screws (A) of the transformer from below in the base plate. 3. Push the transformer to the right so that the mains switch part is exposed from the base plate and lift it upwards.

4. Unhook the cable to the circuit boards from the transformer. Checking the transformer Connect the transformer to mains. Measure the tension and resistance between the contact pins. 1-3 shall be approx. 13 Volt AC Lamp, computer. 4/5-6/7 shall be approx. 28 Volt AC Step motor, drive motor. 2-8 shall be approx. 100-0 k Ohm Foot control connected Fuses On the circuit board of the transformer there are two fuses.

They can be exchanged without disassemble the transformer. Fuse (B): for 120 V machines 3.5 A/250 V for 220 V machines 6.3 A/250 V 2 A/250 V Fuse (C): Dismounting the transformer and the circuit board 1. Remove the lower part of the transformer casing.

2. Remove the soldering from the 7 connections of the transformer to the circuit board. 3. Remove the circuit board. 104 72 53-26 65 Dismantling and mounting Circuit board - Circuit diagram - Designer I Dismounting 1.

Dismount rear cover . 2. Dismount front cover . 3. Loosen the 3 screws (A) holding the circuit board and the cooling plates and lift out the board from the machine. 4. Loosen the cables from the circuit board according to below: (1) Right push buttons assembly (2) Left push button assembly (3) Floppy disk drive (4) LC Display (5) LC display transformer box (6) Stop right board (7) Thread cutter assembly (8) Transformer (9) Motor. Red cable down (10) Thread tension (11) Side feedings step motor (12) Feeding step motor (13) Touch foil key board (14) Embroidery Unit (15) Connecting Sewing head board-circuit board (16) Lamp - front cover (17) Lamp - Sewing head (18) Step motor of the presser foot lifter (19) Step motor of the needle. (20) Sensor of the presserfoot lifter (21) Pressar foot sensor (22) Sewing head card (23) Switch jumper. Note the position The contacts can be loosened by cautiously bending away the outer covering with a thin screwdriver.

Note! If the Main PC board is changed 1. the memory must always be updated to the latest version. 2. the touch panel must be calibrated. 3. the upper tread tension must be set 4. the sewing heads pivot position must be set 66 104 72 53-26 Dismantling and mounting Circuit board - Circuit diagram - Designer II Dismounting 1. Dismount rear cover . 2. Dismount front cover .

3. Loosen the 3 screws (A) holding the circuit board and the cooling plates and lift out the board from the machine. 4. Loosen the cables from the circuit board according to below: (1) Right push buttons assembly (2) Left push button assembly (3) Presentation Unit connector (12) Feeding step motor (14) Embroidery Unit (15) Connecting Sewing head board-circuit board (16) Lamp - front cover (17) Lamp - Sewing head (18) Step motor of the presser foot lifter (19) Stepmotor of the needle. (20) Sensor of the pressarfoot lifter (21) Pressar foot sensor (22) Sewing head card (23) Switch jumper.

Note the position (6) Stop right board (7) Thread cutter assembly (8) Transformer (9) Motor. Red cable down (10) Thread tension (11) Side feeding step motor The contacts can be loosened by cautiously bending away the outer covering with a thin screwdriver. Note! If the Main PC board is changed 1. the memory must always be updated to the latest version. 2.

the touch panel must be calibrated. 3. the upper tread tension must be set 4. the sewing heads pivot position must be set. 104 72 53-26 67 Dismantling and mounting Circuit board - Circuit diagram - Quilt Designer Dismounting 1. Dismount rear cover . 2. Dismount front cover . 3. Loosen the 3 screws (A) holding the circuit board and the cooling plates and lift out the board from the machine.

4. Loosen the cables from the circuit board according to below: (12) Feeding step motor (2) Left push button assembly (3) Presentation Unit connector (15) Connecting Sewing head board-circuit board (16) Lamp - front cover (17) Lamp - Sewing head (18) Step motor of the pressar foot lifter (19) Stepmotor of the needle. (20) Sensor of the pressarfoot lifter (21) Pressar foot sensor (22) Sewing head card (6) Stop right board (8) Transformer (9) Motor. Red cable down (10) Thread tension (11) Side feeding step motor The contacts can be loosened by cautiously bending away the outer covering with a thin screwdriver. Note! If the Main PC board is changed 1. the memory must always be updated to the latest version. 2. the touch panel must be calibrated. 3. the upper tread tension must be set 4.

the sewing heads pivot position must be set 68 104 72 53-26 Dismantling and mounting Stop right circuit board Dismounting 1. Dismount rear cover . 2. Dismount front cover . 3.

Disconnect the stop right board cable from the circuit board 3. Dismount the screw (A) that holds the stop right circuit board. 4. Cautiously remove the circuit board from the support by bending its lower end outwards and thereafter pulling it downwards . A NOTE! Check that the lower shaft sensor is mounted at a distance of approx.

1 mm from the screen. (see illustration.) 104 72 53-26 69 Dismantling and mounting Sewing head Dismounting 1. Dismount rear covers and front cover. 2. Dismount the cable from the main circuit board to the sewing head connection board. 3. Loosen the screw (A) 4. Loosen screw (B) and remove the block (D) by pushing the screw (B) down. 5.

Remove screw (C). 6. Unhook the sewing head from the sewing machine arm. 7. Unhook the sewing head from the stud (E) of the thread take-up lever and the connecting rod (F). Mounting 1. Hook on the sewing head to the connecting rod (F) and the stud(E) of the thread take-up lever. 2. Place sewing head in the machine. 3.

Tighten the screw (C). 4. Mount the block (D) together with the screw (B) in the machine and tighten Set thereafter: 8.



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The gap between the needle and the hook 6. The centre position of the needle.

7. Setting of the needle in relation to the presserfoot. 10. Needle height 19. Threading device.

22. Stitch length balance 29. Pivot position 70 104 72 53-26 Dismantling and mounting The step motor of the needle Dismounting 1. Dismount rear covers . 2. Dismount front cover . 3. Dismount the step motor by removing the 2 screws (A) . 4. Dismount the step motor cable on the sewing head connection board.

Mounting 1. Attach the cable to the sewing head connection board. 2. Set the needle in it's center position. 3. Position the cogwheel (B) so that the screw (C) is pointing upwards. 4. Mount the callibration stop (D). Note the position. 5.

Mount the step motor. 6. Position the step motor and tighten the screws (A). Set thereafter: 6. The centre position of the needle.

104 72 53-26 71 Dismantling and mounting The step motor of the presserfoot lifter Dismounting 1. Dismount rear covers . 2. Dismount front cover . 3. Dismount the lamp of the sewing head by removing the screw (A) 4. Dismount the cable from the sewing head connection board. 5. Dismount the step motor by removing the 2 screws (B) . Mounting 1. Attach the cable to the sewing head connection board. 2. Mount the step motor. and tighten the screws (B) . 3.

Mount the lamp of the sewing head. 72 104 72 53-26 Dismantling and mounting The thread tension compl. Dismounting 1. Dismount rear covers. 2. Dismount the front cover. 3. Dismount the thread tension cover by taking a firm grip on the top of the cover and then carefully pulling it away from the front cover. 4. Dismount the push button board by disconnecting it from the cable .

5. Dismount the cable holder from the cable on the inside of the front cover. 6. Dismount the thread tension by removing the 2 screws (A) and (B). Note that the grounding cable is mounted on the screw (B) 7.

Dismount the cogwheel (C) by removing the screw (D). 8. Dismount the step motor by removing the 2 screws (E). Mount in reverse order Set thereafter 23. Lower thread tension.

24. Upper thread tension - "Norm" Position 25. Upper thread tension - "Emb/Dec" Position 27. Thread take-up spring. 26. Thread sensor guard. 104 72 53-26 73 Dismantling and mounting The hook cover compl, step motor house. Dismounting 1. Dismount the rear covers and the front cover . 2.

Move the presser bar to its highest position. 3. Remove the needle. 4. Dismount the presser foot holder. 5. Dismount the bobbin window, the stitch plate, the bobbin basket holder and the bobbin basket. 6. Snap away the thread cutter hatch by using a screwdriver at (A). 7.

Dismount the 4 screws (B) on the hook cover and disconnect the step motor / lower thread indicator cable from the main circuit board. 8. Dismount the hook cover by pulling it slightly backwards to the left. Mount in reverse order Set thereafter 13. Setting the stitchplate (hook cover)in relation to the needle in feeding direction.

14. The sideways setting of the stitchplate (hook cover) in relation to the presserfoot. 15. The height of the hook. 17.

Setting the feeding mechanism sideways. 74 104 72 53-26 Dismantling and mounting Parts of the hook cover compl. - Designer I and Designer II Changing the thread cutter knife Dismounting 1. Dismount the stitchplate. 2. Snap away the thread cutter cover. 3. Dismount the thread cutter knife arm (B). 4. Dismount the thread cutter holder (D) .

5. Dismount the knife (C). Mounting Mounting in reversed order. The pin (G) shall be in groove (H) NOTE! When mounting the thread cutter knife arm check that the thread brake lining isn't damaged. The lower thread indicator 1. Dismount the hook cover. 2. Dismount the thread cutter step motor. 3. Snap away the thread cutter cover.

4. Dismount the thread cutter gearbox by removing the 2 screws (E). 5. Dismount the thread sensor complete. (F).

Mount in reverse order. Note! Both diods on the thread sensor should be pushed into the hook cover. The thread cutter step motor Dismounting 1. Dismount rear covers and front cover 2. Dismount the hook cover complete.

3. Dismount the thread cutter step motor by emoving the 2 screws (A). 4. Disconnect the cable from the step motor. Mount in reverse order. 104 72 53-26 75 Dismantling and mounting Feeding unit Dismounting 1.Dismount rear and front covers. 2.Dismount the hook cover. 3.

Dismount the needle and the presser foot holder and set the feeding eccentric straight backwards (Needle in the highest position). 4.Unhook spring (A) from the feed carriage and disconnect the draw bar from the feed dog frame. 5.Dismount the 2 screws (B). 6 Disconnect the cross joint by pushing the feeding shaft to the right. 7.Lift out the complete feeding unit. Mounting 1.Set feeding eccentric straight backwards.

2.Set the guide in the correct position see illustration. 3.Insert feeding unit and connect the cross joint. 4.

Tighten screws (B). 5.Connect the draw bar and spring (A). 6.Mount hook cover, presser foot holder and needle.

Set there after 5.The setting of the feed unit sideways. 13.The setting of the stitch plate (hook cover) in relation to the needle in the feeding direction 14.The sideways setting of the stitch plate (hook cover) in relation to the presserfoot. 15.The height of the hook. 17.Setting the feeding mechanism sideways. 18.

Feed dog height 20.Stitch length balance, basic setting 21.Pre-setting the feed dog step motor. 22.Stitch length balance, fine adjustment 76 104 72 53-26 Dismantling and mounting Feed dog. Dismounting 1.Dismount the feeding unit. 2.Dismount the feed dog frame from the feed unit . 3.

Dismount the feed dog by removing the 2 screws (A). Mounting 1.Press the feed dog and the feed dog frame against a straight surface. See Fig 1. 2.

Tighten the 2 screws (A). 3.Mount the feed dog frame on the feed unit 4.Mount the feed unit. Set thereafter 5.

The setting of the feed unit sideways. 13.The setting of the stitch plate (hook cover) in relation to the needle in the feeding direction 14.The sideways setting of the stitch plate (hook cover) in relation to the presserfoot. 18.Feed dog height 20.Stitch length balance, basic setting 21.Pre-setting the feed dog step motor.

22.Stitch length balance, fine adjustment 104 72 53-26 77 Dismantling and mounting The side feeding mechanism complete Dismounting 1.

Dismount rear cover and front cover 2. Dismount the main circuit board 3. Disconnect the draw bar (C) from the side feeding mechanism by removing the screw (A) and the clip (B). 4. Remove the 3 screws (D) and remove the side feeding mechanism. Mount in the reverse order. Set thereafter. 17. Setting the feeding mechanism sideways 22. The stitch length balance, fine adjustment.

The side feeding mechanism step motor Dismounting 1. Dismount the side feeding mechanism . 2. Dismount the cogwheel by removing the screw (A) 3.

Dismount the step motor by removing the 2 screws (B) The step motor is connected to the circuit board according to the wiring plan.

Mount in the reverse order. Note! The screw (A) on the cog wheel shall be positioned so it doesn't hit into the cog segment.



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78 104 72 53-26 Dismantling and mounting The feeding unit step motor Dismounting 1. Dismount rear cover and front cover. 2. Dismount the circuit board. 3. Dismount the base plate. 4. Unhook spring (A) at the end of the segment shaft. 5. Disconnect the draw bar from the side feeding mechanism. 5. Remove the screws (B) of the step motor frame, expose the cross joint (C) between the step motor feeding shaft and the feeding unit by pushing the shaft to the right. 6.

Lift the step motor compl. out of the machine and remove its contact from the circuit board. Mounting 1. Position the step motor compl. 2. Connect the connection (C) between the segment shaft of the step motor and the feeding unit. Note! Location of the guide (see Fig 1). Do not turn 180 degrees wrong!. 3. Tighten screws (B) and connect contact to the circuit board.

4. Mount the spring holder and spring (A). 5. Mount the drawbar to the side feeding mechanism. 6. Mount the Base cover, main circuit board, front and rear covers Set thereafter. 17. Setting the feeding mechanism sideways 20. Stitch length balance, basic setting 21. Pre-setting the feed dog step motor 22.

Stitch length balance, fine adjustment A C B Fig 1 104 72 53-26 79 Dismantling and mounting Hook compl. Dismounting 1. Dismount rear cover and front cover . 2. Dismount the feeding unit . 3. Loosen the screw (A) and lift hook compl. (B). Note! The hook can be dismantled without removing the feeding unit. Mounting 1.

Turn the hand wheel until the needle comes to its highest position. 2. Position washer, adjustment stud and dust shield onto the arm. With the adjustment stud forward. 3. Place the hook so that the tip (C) points straight backwards. 4. Press the hook shaft downwards so that it is without play and tighten screw (A). 5. Mount the feeding unit.

Note! The position of the hook in relation to the lower shaft mustn't be changed. Set thereafter: 2.Setting of the hook in relation to the feeding eccentric. 1.Play of the hook gear.

5.Setting of the feeding unit sideways. 8.Gap between the needle and the hook. 9.

Timing of the hook in relation to the needle. 10.Needle height. 13.The setting of the stitch plate (hook cover) in relation to the needle in the feeding direction. 14.The sideways setting of the stitch plate (hook cover) in relation to the presserfoot. 15.The height of the hook. 18.

Feed dog height. 22.Stitch length balance. 80 104 72 53-26 Dismantling and mounting Bobbin winding device Needle- and feeding movement should be disengaged when the "bobbin shaft with its rubber ring" is pushed against the ring (B), and engaged when it is pushed back. Dismounting 1. Dismount rear covers and front cover . 2. Dismount the screw (A). Mounting 1. Keep the bobbin device in extended position.

2. Push ring (B) against the hand wheel. 3. Push the rubber ring (C) of the bobbin device against ring (B). 4.

Tighten the screw. 5. Check. Note! With the bobbin device in the extended position there should be a small play when pushing the ring (B) against the hand wheel. 104 72 53-26 81 Embroidery Unit Cover Y-slide Dismounting Cautiously bend the cover so that the 5 snaps (A) are exposed and lift the cover upwards. Mounting Place the cover over the plate and press the snaps. Step motor cover Snap off the step motor cover by pushing in the snap (A) in the direction of the arrow. 82 104 72 53-26 Embroidery Unit Cover upper part Dismounting Move the Y-unit to its leftmost position Remove the 3 screw's (A) underneath the lower cover. Push the cover in the direction of the arrow to unhook the guides (B) from the embroidery unit. Mounting in reversed order. NOTE! Make sure that all guides (B) on the inside of the cover are correctly inserted. Cover lower part Dismounting Remove the 3 screws (A) and grounding cable (B). Lift out the embroidery and unhook the Y-unit from the guide rail. Disconnect the cable to the step motor. Detach the connecting board and disconnect the cable.

Mounting in reversed order. Locker switch The locker switch contains a micro switch that shuts off the embroidery unit when it is attached/detached from the machine. Dismounting Remove the upper cover Push up the locker switch button and remove the micro switch. 104 72 53-26 83 Embroidery Unit Embroidery unit Belt tension - X-unit Check The belt should be adjusted in such a way that it should be possible to push in the belt approx. 4,5 mm with a force of 0,2 kg. Adjustment Adjust by loosening the screw (A) and move the plate (B) until a good belt tension is obtained. Calibration of the end position, X-unit. Check Move the X-unit to that the calibration stop (E) is against the frame (F). The distance between (A) and (B) should now be 2 mm. Adjustment 1.

Remove the holder (C) by removing the screws (D). 2. Move the Y-unit so that the distance between (A) and (B) is 2 mm. 3. Turn the cog wheel so that the calibration stop (E) is against the frame (F).

4. Mount the holder (C) with one leg on each side of the belt. 5 Check 84 104 72 53-26 Embroidery Unit Embroidery unit Belt tension - Y-unit Check The belt should be adjusted in such a way that it should be possible to push in the belt approx. 5 mm with a force of 0,2 kg. Adjustment Adjust by loosening the screw's (A) and move the plate (B) until a good belt tension is obtained.

Calibration of the end position, Y -unit. Check Move the Y-unit so that the calibration stop (A) is against the hoop holder frame (B). The distance between the hoop holder frame (C) and frame stop (D) should be 2 mm. Adjustment 1. Remove the holder (E) by removing the 2 screws (F). 2. Move the Y-unit so that the distance between (C) and (D) is 2 mm. 3. Turn the cogwheel so that the calibration stop (A) is against the frame(B). 4.

Mount the holder (E) with one leg on each side of the belt. 104 72 53-26 85 Embroidery Unit Hoop holder Dismounting Remove locking washer (A), pull out the shaft (B) and remove the hoop holder. Remove the two screws (C), pull out the spring (D) and remove the plate. To remove the button, push out the pin (E) from the backside. To remove the hoop sensor snap off the spring (F). Mounting Mount in reverse order. NOTE ! After mounting set calibration of the end position The hoop sensor. The embroidery unit has a sensor that indicates which hoop size that is inserted. This is done by means of a photo-diode on the y-frame and a screen on the hoop holder. Check 1.

Mount the embroidery unit on the machine 2. Go to the service program, menu 1 3. Calibrate the embroidery unit by touching XY 4. Touch XY5. Touch Sensor, row 3.

, row 3, the hoop now takes its center position. , row 3, the machine will now enter service menu 2 - sensor check. 6. The Hoop sensor square should now be activated=black, row 11. Adjustment.

1. Go to the service program, menu 1 2. Calibrate the embroidery unit by touch XY 3. Touch XY4. Touch Sensor, row 3. , row 3, the hoop now takes its center position. , row 3, the machine will now enter service menu 2 - sensor check.



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