

Part 2: Installation Cl. 8967

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1. General Information



Attention!

The mains voltage and the nominal voltage listed on the motor identification plate must be the same.

All work on the electronics is to be conducted only by authorized personnel and with the mains plug disconnected. Please observe all safety instructions!

Installation is to be conducted according to the following instructions. All necessary parts are to be found in the enclosed package.

1.1 Machine Operation without Material



Attention!

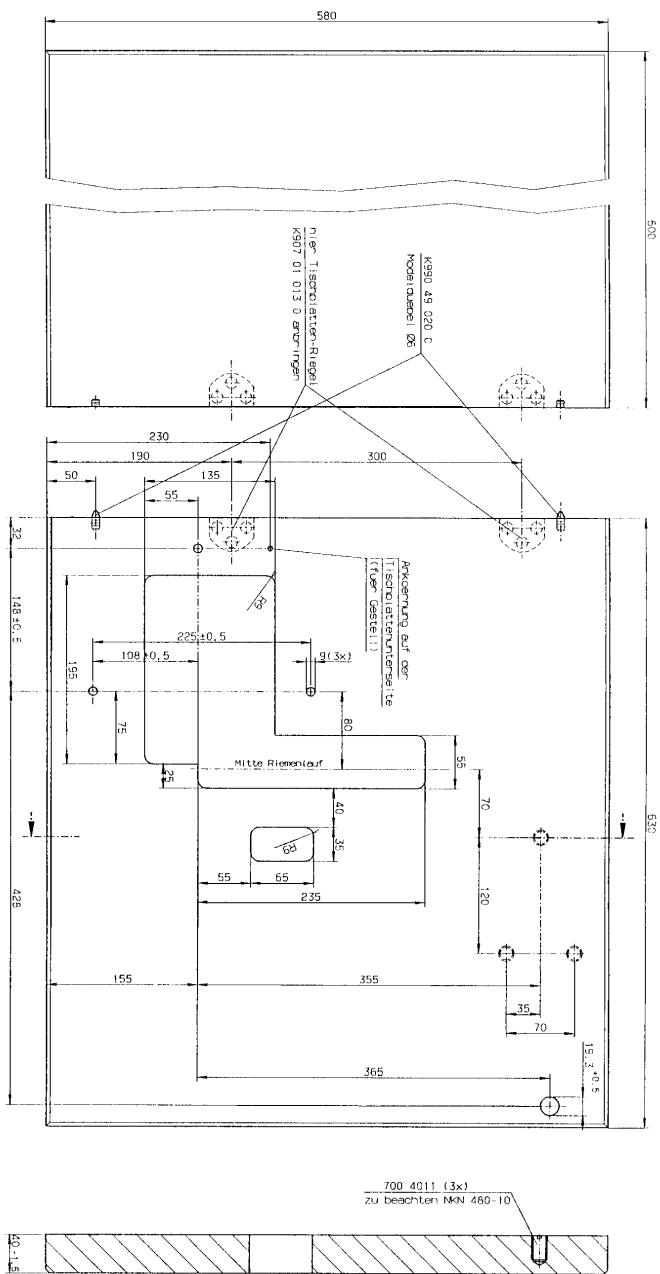
First arrest the pressure feet in the raised position and set the shortest pressure foot stroke.

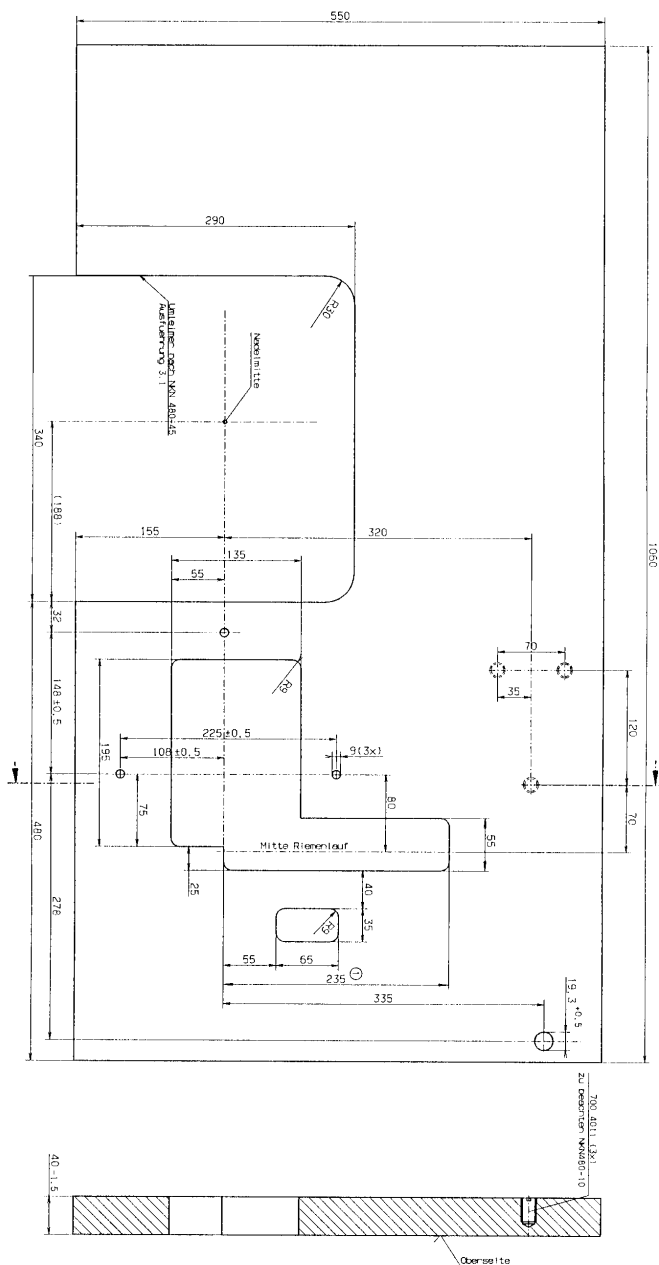
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1.2 Table Tops

The cutouts in self-made table tops must have the dimensions shown in the sketches on pages 4 and 5.

The table tops must have the necessary load capacity and firmness.

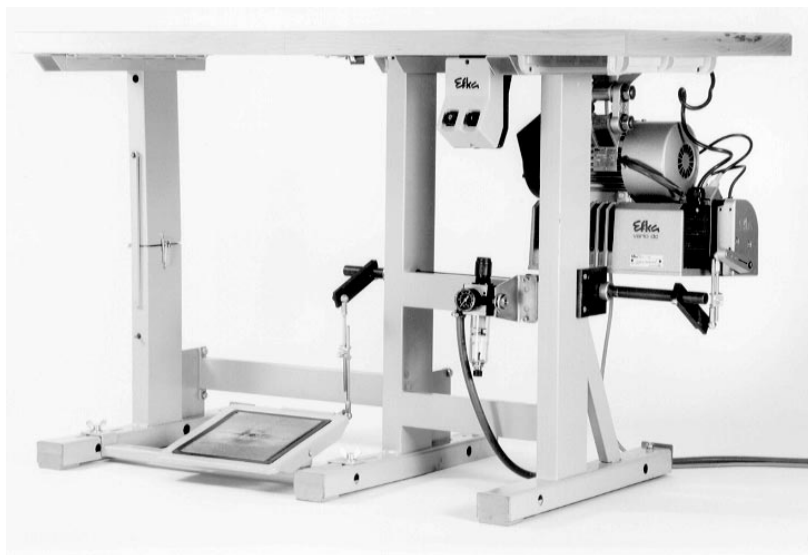




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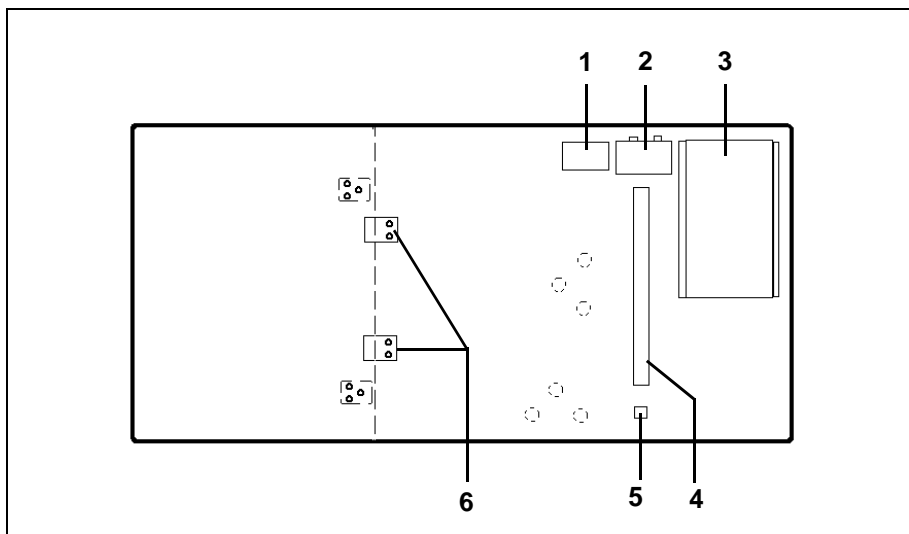
2. Frame Assembly



- Assemble the frame parts as shown and take care that all feet touch the floor.
- Adjust the screws on the frame foot at the right back accordingly for this.



3. Table Top, Completing and Screwing on



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Underside of the Table Top:

- Screw on the cable duct 4 and the holder 5 for strain reliever
- Screw on main switch 2
- Screw on the sewing light transformer 1, if supplied
- Lay the electric wiring in the cable duct and to the motor
- Screw on the drawer 3 with mounting
- Screw on table top support plate 6 by frame MG56-2
- Screw the table top onto the frame with B8 x 35 wood screws.



4. Connecting the Sewing Drive to the Table Top

4.1 General

Different drive and connections packages are available for the machine.

The drive package consists of:

Motor, motor protection switch with wiring, belt, belt pulley.

The connection package contains all wiring between the motor and the sewing head.

The direct current drive available for this machine is operated by a "monophase alternating voltage". Therefore, with multiple machines, the connections must be uniformly distributed to the individual phases of the mains supply (3 phase). Otherwise, this could lead to an overload of the individual phases.



Attention!

If the electronics are not supplied by Dürkopp Adler, then manufacture and testing is to be conducted to EN 60204-3-1/JEC 204-3-1.

4.2 Drive Mounting

- Screw the drive with its base to the table top. Hereby screw the 3 hex head M8 x 35 screws with washers into the nuts in the table top.
- Fasten the V-belt pulley to the motor shaft
- Check the connections on the motor terminal board and correct if necessary.
The arrangement must be appropriate to the mains voltage.

4.3 Voltage Compensation Motor/ Machine Head

- Screw the green-yellow connecting cable found in the enclosed package onto the motor base. It serves to conduct the machine head static charge to ground via the motor.



4.4 Attaching the Pedal and Rod.

For ergonomic reasons the lateral direction of the pedal is to be aligned centered to the needle. Set the rod so that the pedal has an incline of 10°.

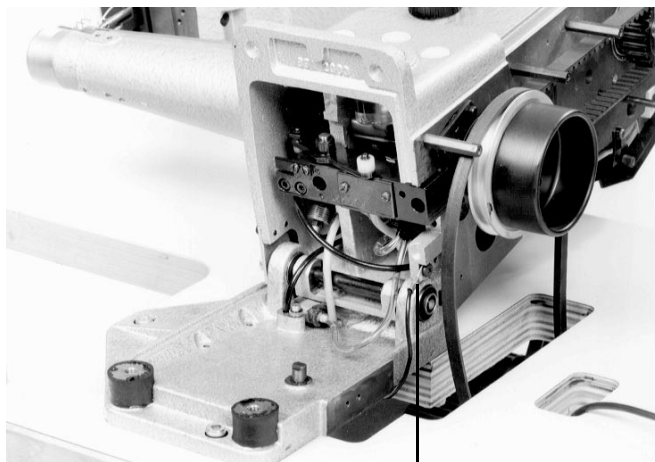
4.5 Electrical Connections of the Motors

Please see the wiring diagrams enclosed in the drive package for the necessary technical connections data.



5. Attaching the Machine Head

5.1 Mounting the Sewing Head, Establishing the Voltage Compensation, Positioning the V-belt



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- Mount the sewing head and fasten with three M8 x 95 Allan screws with washers and nuts.
- Establish the voltage compensation.
Screw the enclosed single-wire cable 1 to the sewing head.
- Positioning the V-belt.
- Set the V-belt tension.
By swinging the motor, tension the V-belt so that it can be pressed in at its center by about 10 mm without great effort.
- Screw on the motor belt guard.
Set the cams so that the belt cannot slide out of the V-belt pulley when the sewing machine is swung to the back.



5.2. Attaching the Belt Guard, Mounting and Setting the Synchronizer



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- Fasten the belt guard with 7 screws.
When tilting, the belt guard must go into the table top cutout unimpaired.
- Screw on the synchronizer.
- Set the timing for "1st Position" and "2nd Position".

1st Position = Needle position slightly behind the looping stroke.

2nd Position = Thread lever slightly before the upper dead center.

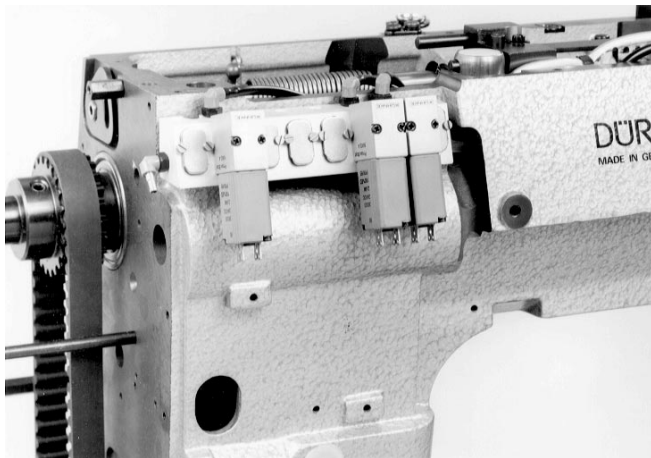


Attention!

It is essential to set the timing for the 1st and 2nd position as described above. The motor manufacturer's instruction give other values.



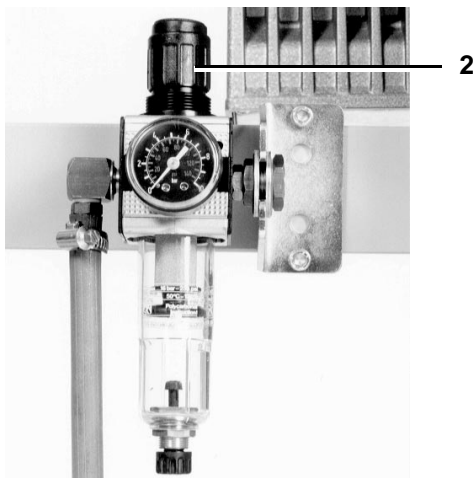
5.3 Connecting the Solenoid Valve Strip



- Plug the connection cable contact strip onto the solenoid valves and fasten to the valves with two M 2,5 screws.



6. Connecting the Compressed Air Maintenance Unit



A supply of water-free compressed air is necessary for the operation of the pressure foot stroke, stitch condensing and thread trimming.

- Screw the maintenance unit onto the frame.
- Establish the PU3-hose connection between the maintenance unit and the machine head.
- Connect the maintenance unit connecting hose for the maintenance unit to the compressed air supply.
- Pull up the handle 2 and set an operating pressure of 6 bar by turning.

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7. Filling Oil and Readyng the Machine for Operation.

- Mount the yarn stand.
- Fill "Esso SP NK 10" oil into both sewing head reservoirs up to the "MAX" marking.
- Connect the mains plug to the mains.

8. Conducting a Sewing Test.

With the maschine switched off thread the needle thread and insert the bobbin.
(see Operating Instructions)

- Conduct a sewing test with material and set the needle and bobbin thread tension.
- First let the maschine run at low speed before sewing at higher speed.