



Adler class 269
Operating instructions

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1. In general

1.1 References and illustration

A functional element mentioned in the text gets a reference, e.g. "A" if it is illustrated in the appendix. The supplement of the reference, consisting of a fraction stroke and of a figure, e.g. A/8, indicates the respective illustration 8 in the appendix. In case of several illustrations, the respective figures with fraction strokes are added.

An electrical or pneumatic functional element bears in all technical documentation (e.g. plan of electrical or pneumatics system) the same reference (e.g. "s1" or "24.2") as that in the text, preceding the fraction stroke.

In the attached illustration this reference stands in a circle.

Switch off the machine, if you have to operate in the motion area of function-elements (Sewing head, feeding-device, clamping table etc.).
Otherwise there could be danger of an accident!

1.2 Technical data

Class 269- with subclasses:

Subclass	:	73	363	373
- Needle system	:	134-35	134-35	134-35
- Needle size	Nm:	130	130	130
- Needle clearance	mm:	-	-	-
- Foot stroke, max.	mm:	13	13	13
- Stitch length, max.	mm:	6	6	6

Subclass	:	262	273
- Needle system	:	134-35	134-35
- Needle size	Nm:	100	130
- Needle clearance	mm:	4,8-24	4,8-24
- Foot stroke, max.	mm:	7	7
- Stitch length, max.	mm:	6	6

For all classes with:

pneumatic foot lifting (FLP)
pneumatic thread cutter (FAP)
pneumatic reverse stitching (RSP)
Thread pulling device (FE)
Instant stroke adjustment (HP)
Needle positioner (NP)
Back tacking (RAP)

- Air supply	bar:	7-10
- Operating pressure	bar:	6



2. Operating and functional components

2.1 On the sewing machine

- A/1 Stitch regulating lever
- B/1 Needle thread main tensioner
- C/1 Needle thread pre-tension
- D/1 Thread pulling spring
- E/1 Thread guides
- F/1 Pressure regulating screw for the presser foot
- G/1 Reel
- H/1 Reel thread pre-tension
- J/2 Lever for lifting presser foot
- K/2 Lifting lever
- U/2 Cylinder for pneumatic presser foot lifting
(Machines with FLP)
- L/3 Cylinder for pneumatic back-tacking
(Machines with RAP)

2.2 On the stand

- a1/3 Main switch
- S/3 Motor control box
- W/3 Servicing unit
- K/3 Knee lever
- M/3 Motor pedal
- O/3 Pneumatic knee-switch (machines with HP 11-1)
- P/3 Left-hand pedal (Machines with HP-2)
- R/3 Pneumatic valve (Machines with FLP 14-3)
- T/3 Garn reel holder
- N/2 Sewing head support

3. Installation

3.1 Mounting sewing machine

- Attach the sewing machine with the four wood-screws supplied to the table-top, (the holes are pre-drilled)
- Insert sewing head support N/2
- Attach garn reel holder T/3 and complete
- Attach chain between knee-lever K/3 and lifting lever K/2
- Mount V-belt, and if necessary, tension by swinging down the motor



3.2 Attaching belt guard

- Screw in bolt d/6
- Screw in screws f/6 with washers approx. 2 turns
- Slide both halves of belt guide behind the washers and tighten screws (Use the access holes in the belt guard), fig. 7.

3.3 Attaching position maker

- Screw the position maker onto the handwheel flange so that the pin on the belt guard engages in the grooves of the position, and the red marks on the flange and position maker align
- Connect plug to socket on motor control box S/3.

3.4 Pneumatic connection

Machines with pneumatic presser foot lifting;

- Connect air-line from valve u/2 to FLP-cylinder U/2

Machines with pneumatic back-tacking:

- Connect RAP-cylinder L/3 to valve 1/3
- Unscrew the bowl of the oil-vaporizer Z/3 and fill with oil up to the marking, oil type, see 6. **Maintenance**
- Connect air-hose to air supply and regulate working pressure with knob w/3 to 6 bar.

3.5 Electrical connection

- Connect power-plug (Mains supply must correspond with the requirements quoted on the identification plate on the motor)
- Switch on machine and check the direction of rotation of the handwheel:

If rotation is incorrect, reverse polarity of plug.

All electrical work must be carried out only by qualified personal.



4. Operating the sewing machine

4.1 Wind-on garn on the reel

- Place reel on the winder shaft
- Thread garn through the guides and the reel thread pre-tensioner H/1/4 as shown in fig. 4 and then several turns around the reel anti-clockwise
- The thread pre-tensioner should be so adjusted that the thread is evenly wound-on with the least possible tension
- Press lever g/4 against the reel
- Run machine with the presser foot raised
- The winder switches off automatically when the reel is full

4.2 Insert reel in the capsule

- Insert the reel in the capsule so that when the thread is pulled, the reel turns in the opposite direction to the direction of pull, fig. 5
- Pull the thread through the slot under the spring D/5 and through the hole a/5.

4.3 Regulating the reel thread tension

The reel thread tension can be regulated by the screw d/5.

4.4 Place capsule in the hook

- Swing up the gate E/8 on the hook centre piece and place the capsule with the reel onto the pin of the centre piece.
- Swing back down the centre piece gate.

4.5 Attaching needle(s)

- Advance needle-bar to highest point of stroke
- Insert the needle(s) as far as possible and with the groove towards the hook.

4.6 Threading the needle

- Thread the needle as shown in fig. 9/10.



4.7 Regulating thread tension

The thread tension can be regulated by the needle thread pre-tensioner C/1 and the main tensioner B/1

Note: Thread looping on the under side of the sewing material can be avoided by re-positioning the eyelet n/9/10 downwards.

4.8 Lifting presser foot

- By hand with the lever

By machines with coupled motors and pneumatic presser foot lifting, FLP 14-3, by depressing the motor pedal backwards.

- By machines with positioning system and pneumatic presser foot lifting, FLP 14-4, by depressing the motor pedal backwards hereto, see point 5.1 Pneumatic presser foot lifting

Note: When running the machine without sewing material, the presser foot must always be raised.

4.9 Regulating the presser foot pressure

The presser foot pressure can be regulated by the screw F/1 via the spring W/1.

4.10 Regulating the stitch length

The stitch length can be adjusted by turning the knob on the stitch regulating lever A/1:

- Knob turned to the right - shorter stitch length
- Knob turned to the left - longer stitch length
- Backwards stitch - push lever upwards

4.11 Adjusting the stroke of alternating upper feed

The stroke height of the feet can be adjusted by re-setting the pullrod Z/2 in the guide track V/2.

The stroke should be adjusted to the greatest thickness of material being sewn:

Pullrod up - maximum stroke
Pullrod down - minimum stroke

Note: To avoid excessive noise, the machine should not be run at max. speed when maximum stroke is required.



5. Additional equipment

5.1 Pneumatic presser foot lifting, FLP

For machines with pneumatic presser foot lifting, FLP 14-3, FLP 14-4, or pneumatic back-tacking, RAP 14-2, the presser foot is lifted by depressing the pedal backwards via the cylinder U/2.

Note: By machines with positioning system, the positions of needle and presser foot can be adjusted on the motor control box S/2 when the pedal is released.

To adjust the positions. see motor manufacturer's instructions.

5.2 Pneumatic back-tacking automatic, RAP

Single and double initial and final back tacks are adjustable on the motor control box.

The initial back tack is activated by depressing the pedal forwards.

The final back tack, by depressing backwards.

To make adjustments, see motor manufacturer's instructions.

5.3 Quick stroke adjustment, HP

By machines with alternating upper feed and pneumatic quick stroke adjustment, HP, to accommodate for sewing over cross seams, the stroke height of the feet can be increased during the sewing process. By machines with HP 11-1 this is achieved with the pneumatic knee switch o/3, by machines with HP 11-2, with the left-hand pedal P/3.

The stroke height should be set to the max thickness at material during a sewing run, see point 4.10 **Adjusting stroke height of alternating upper feed.**

Note: Sewing speed should be reduced at max. stroke setting to avoid excessive noise.



6.1 Service

After intensive daily use, the throatplate, hook, needle thread tension and feed-dog should be cleaned and oil applied to the lubricating points.

Lubricating points see fig. 11

Lubricating oil

Use only branded oils e.g. ESSO MILLCOT K 68 or similar products with the following specifications:

Viscosity at 40° C : 65 mm²/s

Flashpoint : 212° C

ESSO MILLCOT K 68 can be ordered from Kochs Adler:

1 ltr.: Part-No. 990 47 012 8

5 ltr.: Part-No. 990 47 012 9

Pneumatic oil

Use only branded oils, e.g. ESSO NUTO H 68 or similar products with the following specifications:

Viscosity at 40° C : 66 mm²/s

Flashpoint : 236° C

ESSO NUTO H 68 can be ordered from Kochs Adler:

250 cm³: Part-No. 990 81 006 7

1 ltr.: Part-No. 990 47 010 5





