This instruction manual applies to machines from the following serial numbers onwards:

# 020390219
This Instruction Manual is valid for all models and subclasses listed in the chapter "Specifications".

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1 Safety

1.01 Directives

This machine is constructed in accordance with the European regulations contained in the conformity and manufacturer’s declarations.

In addition to this Instruction Manual, also observe all generally accepted, statutory and other regulations and legal requirements and all valid environmental protection regulations!

The regionally valid regulations of the social insurance society for occupational accidents or other supervisory organizations are to be strictly adhered to!

1.02 General notes on safety

● This machine may only be operated by adequately trained operators and only after having completely read and understood the Instruction Manual!

● All Notes on Safety and Instruction Manuals of the motor manufacturer are to be read before operating the machine!

● The danger and safety instructions on the machine itself are to be followed!

● This machine may only be used for the purpose for which it is intended and may not be operated without its safety devices. All safety regulations relevant to its operation are to be adhered to.

● When exchanging sewing tools (e.g. needle, roller presser, needle plate and bobbin), when threading the machine, when leaving the machine unattended and during maintenance work, the machine is to be separated from the power supply by switching off the On/Off switch or by removing the plug from the mains!

● Everyday maintenance work is only to be carried out by appropriately trained personnel!

● Repairs and special maintenance work may only be carried out by qualified service staff or appropriately trained personnel!

● Work on electrical equipment may only be carried out by appropriately trained personnel!

● Work is not permitted on parts and equipment which are connected to the power supply! The only exceptions to this rule are found in the regulations EN 50110.

● Modifications and alterations to the machine may only be carried out under observance of all the relevant safety regulations!
Safety

● Only spare parts which have been approved by us are to be used for repairs! We expressly point out that any replacement parts or accessories which are not supplied by us have not been tested and approved by us. The installation and/or use of any such products can lead to negative changes in the structural characteristics of the machine. We are not liable for any damage which may be caused by non-original parts.

1.03 Safety symbols

Danger!
Points to be observed.

Danger of injury for operating and specialist personnel!

Caution
Do not operate without finger guard and safety devices. Before threading, changing bobbin and needle, cleaning etc. switch off main switch.

1.04 Important points for the user

● This Instruction Manual is an integral part of the machine and must be available to the operating personnel at all times.

● The Instruction Manual must be read before operating the machine for the first time.

● The operating and specialist personnel is to be instructed as to the safety equipment of the machine and regarding safe work methods.

● It is the duty of the user to only operate the machine in perfect running order.

● It is the obligation of the user to ensure that none of the safety mechanisms are removed or deactivated.

● It is the obligation of the user to ensure that only authorized persons operate and work on the machine.

Further information can be obtained from your PFAFF agent.
1.05 Operating and specialist personnel

1.05.01 Operating personnel

Operating personnel are persons responsible for the equipping, operating and cleaning of the machine as well as for taking care of problems arising in the sewing area.

The operating personnel is required to observe the following points and must:

- always observe the Notes on Safety in the Instruction Manual!
- never use any working methods which could adversely affect the safety of the machine!
- not wear loose-fitting clothing or jewelry such as chains or rings!
- also ensure that only authorized persons have access to the potentially dangerous area around the machine!
- always immediately report to the person responsible any changes in the machine which may limit its safety!

1.05.02 Specialist personnel

Specialist personnel are persons with a specialist education in the fields of electrics, electronics and mechanics. They are responsible for the lubrication, maintenance, repair and adjustment of the machine.

The specialist personnel is obliged to observe the following points and must:

- always observe the Notes on Safety in the Instruction Manual!
- switch off the On/Off switch before carrying out adjustments or repairs, and ensure that it cannot be switched on again unintentionally!
- wait until the luminous diode on the control box is no longer blinking or on before beginning adjustment or repair work.
- never work on parts which are still connected to the power supply! Exceptions are explained in the regulations EN 50110.
- replace the protective coverings and close the electrical control box after all repairs or maintenance work!
Safety

1.06 Danger

A working area of 1 meter is to be kept free both in front of and behind the machine while it is in operation so that it is always easily accessible.

Never reach into the sewing area while sewing! Danger of injury by the needle!

Never leave objects on the table while adjusting the machine settings! Objects can become trapped or be slung away! Danger of injury!

Do not operate the machine without its take-up lever guard 1!
Danger of injury due to the motion of the take-up lever!

Do not operate the machine without the finger guard 2!
Danger of injury by the needle!

If an external motor is used, do not operate the machine without the belt guards 3 and 4!
Danger of injury by the drive belt!
2 Proper use

The **PFAFF 9063** is a single-needle, high-speed sewing machine with bottom feed. The machine is used to manufacture lockstitch seams in the textile industry.

Any and all uses of this machine which have not been approved of by the manufacturer are considered to be inappropriate! The manufacturer cannot be held liable for any damage caused by the inappropriate use of the machine! The appropriate use of the machine includes the observance of all operational, adjustment, maintenance and repair measures required by the manufacturer!
Specifications

3 Specifications

3.01 PFAFF 9063 ▲

Stitch type: .................................................................................................. 301 (lockstitch)
Needle system: .............................................................................................. DBx1
Needle size (Nm) in 1/100 mm: ........................................................................ 80 - 100
Handwheel eff. dia.: ......................................................................................... 65 mm
Clearance under roller presser: ...................................................................... 6 - 13 mm
Clearance width: ............................................................................................ 262 mm
Clearance height: ........................................................................................... 132 mm
Bedplate dimensions: .................................................................................... 476 x 178 mm

Sewing head dimensions:
Length: ......................................................................................................... approx. 520 mm
Width: ........................................................................................................... approx. 180 mm
Height (above table): ..................................................................................... approx. 250 mm
Max. stitch length: ........................................................................................... 5,0 mm
Max. speed: ................................................................................................... 5000 spm ●

Connection data:
Operating voltage: ...................................................................................... 190 - 240 V 50/60 Hz, 1 phase
Max. power consumption: ................................................................................ 400 VA
Fuse protection: .............................................................................................. 1 x 16 A, inert

Working noise level:
Emission level at workplace at a speed of 4000 spm: ..................................... L<sub>pa</sub> < 77 dB(A) ■
(Noise measurement in accordance with DIN 45 635-48-A-1, ISO 11204, ISO 3744, ISO 4871)

Net weight of sewing head: ........................................................................... approx. 24 kg
Gross weight of sewing head: ......................................................................... approx. 32 kg

▲ Subject to alteration
● Dependent on material, work operation and stitch length
■ L<sub>pa</sub> = 2,5 dB

3.02 Models and subclasses

Model B: .................................................. for work on medium-weight materials (standard parts set)

Work aids:
Sub-class -900/93 ............................................................................................ Thread trimmer
Sub-class -909/93 ............................................................................................ Thread wiper
Sub-class -910/93 ......................................................................................... Automatic presser foot lift
Sub-class -911/93 ........................................................................................... Backtacking mechanism
Disposal of machine

- The proper disposal of the machine is the responsibility of the customer.

- The materials used in the machines are steel, aluminium, brass and various plastics. The electrical equipment consists of plastics and copper.

- The machine is to be disposed of in accordance with the locally valid environmental protection regulations. If necessary, a specialist is to be commissioned.

⚠️ Special care is to be taken that parts soiled with lubricants are separately disposed of in accordance with the locally valid pollution control regulations!
Transport, packaging and storage

5 Transport, packaging and storage

5.01 Transport to the customer’s premises
Within Germany, machines with a table are delivered without packaging. Machines without a table (sewing head only) and machines which are to be exported are packaged.

5.02 Transport within the customer’s premises
The manufacturer bears no liability for transport within the customer’s premises or to the individual locations of use. Make sure that the machines are always transported upright.

5.03 Disposal of the packaging
The packaging of these machines consists of paper, cardboard and VCE fiber. The proper disposal of the packaging is the responsibility of the customer.

5.04 Storage
The machine can be stored for up to 6 months if not in use. During this time it should be protected from dust and moisture.
For longer storage the individual parts of the machine, especially the moving parts, must be protected from corrosion, e.g. by a film of oil.
In the following section of this Instruction Manual, certain tasks or important pieces of information are accentuated by symbols. The symbols used have the following meanings:

- **Note, information**
- **Cleaning, care**
- **Lubrication, greasing**
- **Servicing, repairing, adjustment, maintenance (only to be carried out by specialist personnel)**
**Controls**

7 Controls

7.01 On/Off switch

- Turn the machine on/off by pressing the On/Off switch 1.
- With the buttons 2 the parameters, such as back-tacking function, raising the presser foot, needle position at sewing stop etc., can be pre-selected (also see the Motor Instruction Manual).

7.02 Pedal

0 = Neutral position
1 = Sewing
2 = Raise presser foot (on machines with automatic presser foot lift –910/93)
3 = Trim thread (on machines with thread trimmer –900/93)
7.03 Lever for raising the presser foot

- Raise the presser foot by turning lever 1 in the direction of the arrow.

7.04 Knee lever

- By pressing the knee lever 1 in the direction of the arrow, the presser foot is raised.
**Controls**

7.05 **Stitch length adjustment wheel**

- Turn adjustment wheel 1 to set the required stitch length.

7.06 **Reverse stitch key**

- For sewing in the reverse direction, key 1 must be pressed during sewing.
7.07 Key on machine head

- By operating key 1 during sewing, the machine switches to reverse sewing (only on machines with backtacking mechanism –911/93).

7.08 Switch for thread wiper –909/93

- The thread wiper can be switched on or off by pressing switch 1.

  Position **1**: unit is switched on
  Position **0**: unit is switched off
Mounting and commissioning the machine

The machine must only be mounted and commissioned by qualified personnel!
All relevant safety regulations are to be observed!

If the machine is delivered without a table, be sure that the frame and the table top which you intend to use can hold the weight of the machine and the motor. It must be ensured that the supporting structure is sufficiently sturdy, even during sewing operations.

8.01 Mounting

The necessary electricity supply must be available at the machine’s location. Also, a stable and horizontal surface as well as adequate lighting are required at the location.

Depending on the type of table, the method of packaging used may require that the table top be lowered for transport. The following is a description of how to adjust the height of the table top.

8.01.01 Adjusting the table-top height

- Loosen screws 1 and 2 and set the desired table-top height
- Tighten screws 1 well.
- Adjust the pedal to the desired position and tighten screw 2.

Fig. 8 - 01
Mounting and commissioning the machine

8.01.02 Fitting the oil pan

- Insert rubber pads 1 and 2 and fasten them with nails.
- Attach rubber pad 3 with a suitable adhesive.

- Insert oil pan 4 in the table top cutout.
- Place magnet 5 in the corresponding recess of the oil pan.
Mounting and commissioning the machine

8.01.03 Mounting the sewing head

- Insert both hinges 1 in the corresponding holes in the bedplate of the sewing head.
- Insert the sewing head with hinges 1 into the rear rubber pads.

Fig. 8 - 04

8.01.04 Mounting the balance wheel

- Fit balance wheel 1 and fasten it with 2 screws 2.

The balance wheel must only be mounted on machines without a synchronizer.

Fig. 8 - 06
8.01.05 Tightening the V-belt

- Loosen nut 1 and tighten the V-belt by turning motor mounting 2.
- Tighten nuts 1.
Mounting and commissioning the machine

8.01.06 Mounting the thread winder

- Fasten thread winder 1 to the table top with screws 2, so that when the thread winder is switched on, friction wheel 3 is driven reliably by V-belt 4.
Mounting the top V-belt guard

- Fasten part 1 of the V-belt guard to the table top with 2 screws without touching the V-belt.
- Attach part 2 of the V-belt guard to the machine housing with 3 screws.
- Fit cover 3.
8.01.08 Mounting the bottom V-belt guard

- Align V-belt guard 1 so that the motor pulley and V-belt are run freely.
- Tighten screw 2.

8.01.09 Fitting the thread guide

- Fit the tapered thread guide pin 1 into the corresponding hole in the machine housing.
8.01.10 Mounting the spool holder

- Mount the spool holder as shown in Fig. 8-11.
- Insert the spool holder into the hole in the table top and fasten it with the nuts enclosed.

8.01.11 Connecting the plug connections and earth cable

- Insert all the plugs coming from the machine to the control box as described in the Motor Service Manual (Fig. 8-12 shows the Quick-Motor control box)
- Screw the earth cable from the sewing machine, motor and, if necessary, the control box to the stand.
Mounting and commissioning the machine

8.02 Commissioning

⚠️ Before commissioning the machine, clean it thoroughly, fill the oil pan with oil and adjust the oil level, see Chapter 10 Care and Maintenance!

- Examine the machine, in particular the electric cables, for any damage.

⚠️ Have qualified personnel check whether the machine can be operated with the available voltage and whether it is connected properly. If there are any irregularities do not operate the machine!

⚠️ The machine may only be connected to an earthed socket!

⚠️ When commissioning the machine or after a long period of non-operation, operate the machine with max. 2000 spm for the first 10 minutes! Danger of damage to the machine!

- When the machine is running, the balance wheel must turn towards the operator. If this is not the case, have the motor adjusted by qualified personnel, see Motor Service Manual.

8.03 Switching the machine on/off

- Switch the machine on or off in accordance with Chapter 7.01 Main switch.
Mounting and commissioning the machine

8.04 Table top cutout
Preparation

All regulations and instructions in this Instruction Manual are to be observed!
Special attention is to be paid to the safety regulations!

All preparation work is only to be carried out by appropriately trained personnel.
Before all preparation work, the machine is to be separated from the electricity supply by removing the plug from the mains or switching off the On/Off switch!

9.01 Inserting the needle

Switch off the machine!
Danger of injury due to unintentional starting of the machine!

Only use needles of system DBx1.

- Raise needle bar.
- Loosen screw 1 and insert needle 2 until you feel it stop.
- Tighten screw 1.

Fig. 9 - 01
9.02 Winding the bobbin thread / adjusting the preliminary thread tension

- Place empty bobbin 1 on the bobbin winder spindle 2.
- Thread the thread as shown in Fig. 9 - 02 and wind it around the bobbin 1 a few times in a clockwise direction.
- Switch on the winder by pushing lever 3 in the direction of the arrow, until the friction wheel is touching the V-belt.

Bobbin 1 is filled during sewing.

- The tension of the thread on bobbin 1 can be adjusted with milled screw 4.
- The bobbin winder stops automatically, when bobbin 1 is sufficiently full.
- The quantity can be adjusted by turning screw 5.
9.03  Removing/Inserting the bobbin case

Switch off the machine!
Danger of injury due to unintentional starting of the machine!

Removing the bobbin case:
- Tilt back the machine.
- Raise latch 1 and remove bobbin case 2.

Inserting the bobbin case:
- Press bobbin case 2 until you feel it snap into the bobbin case base.

Return the machine to its upright position using both hands!
Danger of injury by crushing between the machine and the table top!

9.04  Inserting the bobbin case / Adjusting the bobbin thread tension

- Insert the bobbin into the bobbin case.
- Pass the thread through the slot under the spring according to Fig. 9-04.
- Adjust the thread tension by turning screw 1.

When the thread is pulled, the bobbin must rotate in the direction of the arrow.
9.05 Threading the needle thread / adjusting the needle thread tension

Switch off the machine.
Danger of injury if the machine is started accidentally!

- Thread the needle thread as shown in Fig. 9 - 05.
- Adjust the needle thread tension by turning adjustment wheel 1.
10 Care and maintenance

Cleaning .............................................................. daily, several times if in continuous use
Checking the oil level ................................................................. once a month▲

▲ These maintenance intervals are calculated for the average running time of a single shift operation. If the machine is operated more than this, shorter intervals are recommended.

10.01 Cleaning the machine

Switch off the machine!
Danger of injury due to unintentional starting of the machine!

● Tilt back the machine.
● Clean the hook and hook compartment daily, more often if in continuous operation.

Return the machine to its upright position using both hands!
Danger of injury by crushing between the edge of the machine and the table top!
10.02 Checking the oil level / filling in oil

The oil level must always be between the markings "High" and "Low".

- Switch off the machine.
- Tilt the machine back and check the oil level.
- If necessary fill in oil up to the marking "High".

When commissioning the machine or after a long period of non-operation, operate the machine with **max. 2000 spm** for the first 10 minutes! Danger of damage to the machine!

Set the machine upright with **both** hands!
Danger of crushing between machine head and table top.

Only use oil with a mean viscosity of 10.0 mm²/s at 40°C and a density of 0.847 g/cm³ at 15°C.

We recommend PFAFF sewing machine oil, part no. 280-1-120 105.
10.03 Adjusting the lubrication

10.03.01 Lubricating the needle head parts

- The needle head parts should be adequately lubricated without oil dripping out of the head part.
- The amount of oil for lubricating the head parts is adjusted by turning screw 1.

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10.03.02 Hook lubrication

- The following adjustments may only be carried out by appropriately trained personnel.
- Remove the needle.
- Dismount the needle plate and bottom feed dog.
- Place a sheet of paper over the needle plate cutout and start the machine running.
- If a thin streak of oil is visible on the paper after a running time of approx. 10 seconds at top speed, the hook lubrication is set correctly.
- To adjust the amount of oil, turn adjustment screw 1.
11 Adjustment

11.01 Notes on adjustment
All following adjustments are based on a fully assembled machine and may only be carried out by expert staff trained for this purpose. Machine covers, which have to be removed and replaced to carry out checks and adjustments, are not mentioned in the text. The order of the following chapters corresponds to the most logical work sequence for machines which have to be completely adjusted. If only specific individual work steps are carried out, both the preceding and following chapters must be observed. Screws, nuts indicated in brackets ( ) are fastenings for machine parts, which must be loosened before adjustment and tightened again afterwards.

11.02 Tools, gauges and other accessories
- 1 set of screwdrivers with blade widths from 2 to 10 mm
- 1 set of wrenches with jaw widths from 7 to 14 mm
- 1 set of Allan keys from 1.5 to 6 mm
- 1 metal ruler, part no. 08-880 218-00

11.03 Abbreviations
- t.d.c. = top dead centre
- b.d.c. = bottom dead centre
11.04 Adjusting the basic machine

11.04.01 Pre-adjusting the needle height

**Requirement**
With the needle bar at b.d.c., the top marking on needle bar 1 should be level with the bottom edge of bushing 3.

- By turning the balance wheel, bring the needle bar to its b.d.c.
- Without twisting it, adjust needle bar 1 (screw 2) in accordance with the requirement.
11.04.02 Setting the bottom feed dog at its neutral position

**Requirement**
With the stitch length set at "0", cranks 1 and 3 should be in alignment, and there should be no feeding motion of the bottom feed dog when the balance wheel is turned.

- Raise the presser foot and set the stitch length at "0".
- Adjust crank 1 (screw 2) in accordance with the requirement.
Adjustment

11.04.03 Bottom feed dog motion

Requirement
1. When the needle bar is at its t.d.c., the bottom feed dog should be in its top point of reversal when the stitch length is set at "0".
2. When the needle bar is positioned 0.6 after t.d.c. and the largest stitch length is set, the bottom feed dog should not move when the reverse feed switch 3 is operated.

Without moving it sideways, adjust eccentric 1 (screws 2) in accordance with the requirements.
11.04.04  Bottom feed dog position

**Requirement**
When the stitch length is set at '0' and the bottom feed dog 5 is at t.d.c., it should
1. Be positioned in the centre of the needle plate cutout in the feeding direction.
2. Its teeth should be **0.75 – 0.85 mm parallel** over the needle plate.

![Diagram showing bottom feed dog position with labels 1, 2, 3, 4, 5, and arrows indicating adjustments.](image-url)

- Shift or turn crank 1 (screw 2) in accordance with **requirement 1**.
- Turn crank 3 (screw 4) in accordance with **requirement 2**.
11.04.05 Needle rise, hook clearance, needle height and bobbin case position finger

**Requirement**
When the bottom marking on needle bar 3 is level with the bottom edge of bushing 5
1. The point of hook 1 should be centred to the needle and at a distance of 0.04 – 0.10 mm from the groove of the needle, and
2. The top edge of the needle eye should be 0.8 mm below the hook point.

- Adjust the hook 1 (screws 2) in accordance with requirement 1.
- Without twisting needle bar 3 (screw 4), adjust it according to requirement 2.
Thread check spring and thread regulator

**Requirement**

1. The movement of the thread check spring should be completed, when the needle point penetrates the material (spring stroke approx. 7 mm).
2. When the thread is being looped round the hook and the loop is at its largest, the thread check spring should have moved approx. 1 mm.

![Diagram showing thread check spring and thread regulator](Fig. 11-06)

- Adjust thread tension 1 (screw 2) in accordance with **requirement 1**.
- Adjust thread regulator 3 (screw 4) in accordance with **requirement 2**.

For technical reasons it may be necessary to alter the specified spring stroke: Turn thread regulator 1 (screw 2) towards "+" (= more thread) or towards "-" (= less thread).
Adjustment

11.04.07 Knee lever stop

Requirement
When knee lever 3 has been moved as far as possible, the presser foot should rise approx. 9 mm above the needle plate.

- Adjust screw 1 (nut 2) in accordance with the requirement.
Presser foot pressure

Requirement
The material should be fed without difficulty at all times and there should be no sign of pressure marks on the material.

- Adjust milled screw 1 (milled nut 2) in accordance with the requirement.
11.05 Adjusting the thread trimmer – 900/93

11.05.01 Adjusting the synchronizer

**Requirement**
1. When the machine has stopped it should be positioned in b.d.c. needle bar.
2. After thread trimming the machine should be positioned in t.d.c. take-up lever.

- Slightly loosen screw 1 and adjust it in accordance with **requirement 1**.
- Slightly loosen screw 2 and adjust it in accordance with **requirement 2**.

⚠️ Only loosen screws 1 and 2, do not remove them completely!
11.05.02 Adjusting the control cam

**Requirement**
When the take-up lever is at its t.d.c., the cutting operation should have been concluded (roller lever is pushed out of the control cam).

- Adjust control cam 1 (screws 2) in accordance with the requirement.

- Make sure that the control cam 1 is touching retaining collar 3, when the screws 2 are tightened!
11.05.03 Position of the stationary knife

**Requirement**
The stationary knife 1 should be at a distance of **3.5 mm** from the centre of the needle.

- Adjust stationary knife 1 (screws 2) in accordance with the requirement.

For technical reasons it may be necessary to alter the specified basic position:
Move stationary knife 1 towards "+" (= more thread) or towards "-" (= less thread).
11.05.04 Needle thread tension release

Requirement
When magnets 3 are attracted, there should be a distance between the tension disks 4 of at least 0.5 mm.

Fig. 11 - 12

- Adjust tension cable 1 (nuts 2) in accordance with the requirement.
11.06 Adjusting the thread wiper –909/93

Requirement
1. During its movement thread wiper 1 should not have any contact.
2. When the take-up lever is at its t.d.c., and the thread wiping device is switched on, the thread wiper 1 should pass behind the needle point with a clearance of approx. 1 mm and under it with a clearance of approx. 2 mm.

Adjust the thread wiper 1 (screw 2) in accordance with the requirements.
11.07 Adjusting the automatic presser foot lift –910/93

Requirement
When the automatic presser foot lift is operated, the presser foot should be 9 mm above the needle plate.

- Adjust shaft 1 (screw 2) in accordance with the requirement.
11.08 Adjusting the backtacking mechanism –911/93

Requirement
When the reverse feed switch 3 (reverse sewing) is operated, the stitch length should be the same as during sewing.

- Adjust solenoid 1 (screws 2) in accordance with the requirement.
Wearing parts

This list indicates the most important wearing parts. You can request a detailed parts list for the complete machine under parts number 296-12-18 691.
Wearing parts

- F GS 527-8 (2x)
- F GR 1046-8
- F GS 528-8
- F GR 1049/2-8
Notice