

# FISCHBEIN MODEL "F-12V "

CE



Serial Number:.....

Weight:.....5.6Kg

Noise Level:.....79dB

Edition:.....02/2015

## USER MANUAL

Manufactured and Assembled by:  
Fischbein LLC  
151 Walker Road – Statesville, NC 28687  
USA

Imported and serviced by:  
Fischbein sa  
Paepsem Business Park  
Boulevard Paepsem,8 – 1070 Brussels  
[www.fischbein.com](http://www.fischbein.com)

**REF: 14861F-GB**



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# **FISCHBEIN**

## **Model F-12V**

### **PORTABLE BAG CLOSER**

### **USERS MANUAL**

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## **1. FOREWORD.**

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### **ATTENTION!!!!**

**OPERATORS AND MAINTAINING THIS EQUIPMENT SHOULD READ THIS ENTIRE DOCUMENT BEFORE ATTEMPTING TO HANDLE OR OPERATE THE MODEL F SERIES PORTABLE BAG CLOSER.**



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## 2. MACHINE SPECIFICATIONS.

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Model:                              | F-12V                                      |
| Stitch length:                      | approximately 7 mm                         |
| Maximum thickness of sewn material: | 6,5 mm                                     |
| Sewing speed:                       | approximately 13,6 m / min (charge)        |
| Weight:                             | 5,6 kg ,with electric cord and 200gr cone. |
| Vibration level:                    | ..... m / sec <sup>2</sup>                 |
| Noise level:                        | 79 dB.                                     |
| Motor voltage:                      | 12 VDC                                     |
| Power options:                      | electric 230v or air motor options.        |
| Seam:                               | single thread chain stitch.                |
| Needle:                             | D5, REF: 13050                             |
| Thread:                             | 20/4 Polyester, 200 gr cone                |

### **VIBRATIONS!!!!**

Daily exposure values must not exceed 180 bags/h over a period of 8 h (1 work shift)

Bag width: 55cm Internal doc: A003-0237PD

## 3. GENERAL GUIDELINES FOR TORQUE APPLIED TO F HARDWARE.

|                                              |                   |
|----------------------------------------------|-------------------|
| Cover screws:                                | 2,5 - 2,9 Nm      |
| Needle bar guard and other covers:           | 2,5 - 2,9 Nm      |
| Retaining collars ( internal or external ):  | 2,5 - 2,9 Nm      |
| Looper holder and cam follower clamp screws: | 2,5 - 2,9 Nm      |
| All other set screws:                        | 2,5 - 2,9 Nm      |
| All other hardware fasteners not specified:  | 2,5 - 2,9 Nm      |
| Needle bar clamp:                            | 2,9 - 3,5 Nm      |
| Looper Cam set screws:                       | not exceed 0,14Nm |
| Eccentric set screws:                        | 2,9 - 3,5 Nm      |
| Slide bar button head screws (4):            | 2,1 - 2,3 Nm      |



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## **5. SERVICE.**

Should your machine require factory service or maintenance, please contact any of the Fischbein authorized distributors or Fischbein Brussels. Return the warranty card with details concerning your problems for warranty justification.

They can also give you the best advice on utilization, oil, thread and spare parts.

## **6. RECOMMENDATIONS FOR MAX. PERFORMANCE .**

### **6.1. Work area.**

The MODEL F machine should be operated in an area that allows freedom of motion for the operator and the unit. The machine's input end at the feed dog works quickly and the output end near the thread knife is very sharp. Other operators should keep out of arm's reach from the area in which the machine works. Operators should always wear proper eye protection when operating the machine and not wear loose clothing or jewelry. Long hair should be pulled back and tied to avoid getting caught in the machine.

### **6.2. Before you start the machine.**

1. Make sure your machine is well connected to an adequate power supply as indicated on the motor. The motor is double insulated, so there is no grounding required.
2. Verify that all guards are in place.
3. No special installation is required, but we may recommend you to place something on the ground to set the machine on when not in use.
4. The machine is shipped to you with some examples of sewn test trips. Examine these carefully to see how proper chain form should look.
5. Use of the Fischbein model 1550PLUS suspension and balancing unit is recommended. This will allow the machine to be suspended at any convenient height, ready for use.
6. You may want to try the machine on some empty bags or pieces of paper to get a feel of how to use it, before you start with filled bags.

### **6.3. As you sew with the Fischbein model F .**

1. Do not use the machine in very humid or explosive environments.
2. Machine mechanism will carry the bag automatically through; therefore do not pull, push, or turn the machine.
3. Keep hands and fingers away from the bag moving mechanisms.(feed dog, presser foot)
4. Only use the machine to close bags of specific thickness. It is not designed for clothing or very thin plastic bags, (see page 3, machine specifications).
5. A minimum of paper bag strength is required. For plastic bags, a minimal thickness of 120  $\mu$  ( microns ) is necessary, depending on quality of PE used.



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#### **6.4. Maintenance.**

1. Always use genuine Fischbein parts.
2. Do not use screws other than those indicated in the parts list. Hardware items on the Fischbein model F systems are not metric.
3. Always use original Fischbein D5 needles.
4. Use a 20 / 4 Fischbein 100 % polyester thread to get the best results.
5. Fischbein Premium Thread (Ref: 25010) is an excellent product, and available in various colors. With a full 200 gr cone you will sew around 250 bags (depending of bag widthness).
6. We also recommend that you use other Fischbein products such as: cleaning agents and crepe paper (tape); these products were selected to avoid problems and allow maximum efficiency of the machine.
7. Proper settings for all internal components are made at the factory, any change to these settings could cause damage to the machine mechanism.

### **7. HOW TO USE THE FISCHBEIN PORTABLE BAG CLOSER?**

1. Take the machine in your right hand and place your finger over the start switch placed on the underside of the handle.
2. The switch engages and disengages with a positive “click“. Pressing and holding it in will start the machine running, releasing it will stop the machine.
3. It is recommended that bag top “gussets“ be formed before sewing the bag. This will make a stronger and more durable closure. See fig: 1-3.
4. Take the top of the bag in your left hand at the right side of the bag.
5. Feed the top of the bag between the presser foot and the throat plate.
6. Press on the switch so that the machine starts running. During the closing operation, the bag will be carried through the sewing gap correctly by the action of the feeding mechanism. There is no need to push the machine or pull the bag.
7. When the bag is in the machine, it may be useful to shift your left hand to the other end of the bag top to support the bag and achieve a straight seam.
8. When you reach the end of the bag, let the machine run for a little to form a short “chain“ and then gently turn the machine to the left, enabling the knives to cut the thread.

### **WARNING !!!!**

**Keep always your hand away from the presser foot to avoid the danger that your hand could be caught by the feed dog.**

#### **NOTE.**

Important to check is the free space available between the top of the bagged product and the sewing line. The free space must be sufficient the whole width of the bag to allow enough material to sew.

When closing net bags or jute bags, a free space between the top of the product and the sewing line of 10 cm is recommended. For paper bags, not less than 5 cm is suitable.

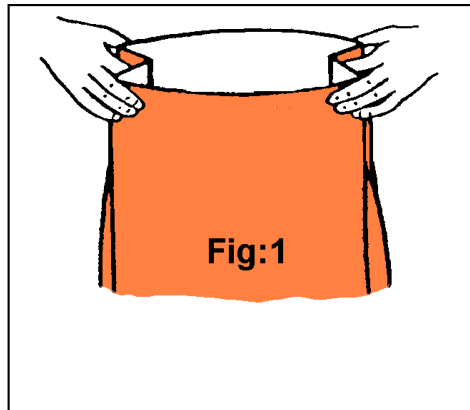
Experiment with each type of product and bag material to see how much space needs to be left, to avoid tearing of the bag.



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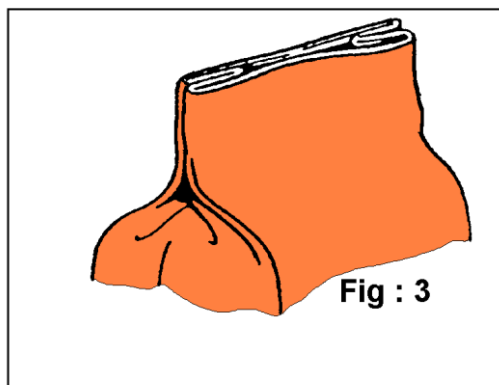
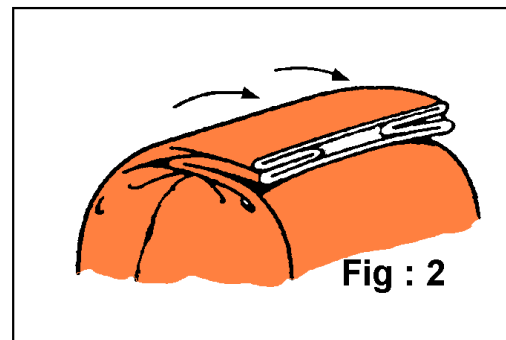
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## 8. HOW TO HANDLE A BAG BEFORE CLOSING IT?



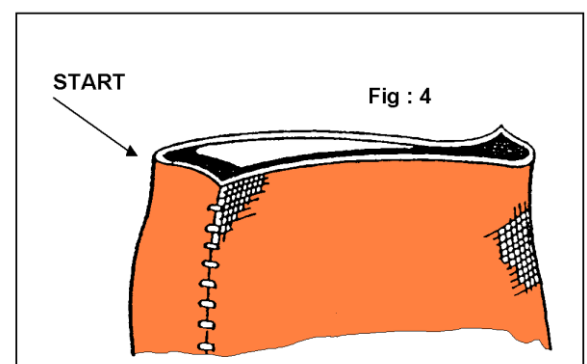
**Fig 1:** When the bag is filled and ready to be closed, you must manually reform the bag top including the recommended gussets.

**Fig 2:** After reforming operation, fold the bag top as close as possible to the product and bring the bag in its original vertical position as shown on Fig : 2 and 3.



**Fig 3:** You can now start the closing operation remembering to leave sufficient free space between the top of the product and the sewing line.

**Fig 4:** When handling a jute bag with thick bag edges, do not introduce this edge directly into the mechanism but shift the edge gently before introduction and starting the closing operation.





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## 9. METHOD OF THREADING, ADJUSTMENT AND TENSION.

### **WARNING !!!**

**Always disconnect the machine from it's power source before threading or adjustment .**

#### 9.1. Threading.

To thread the machine follow the thread path indicated in Fig:5.1 & 5.2 .

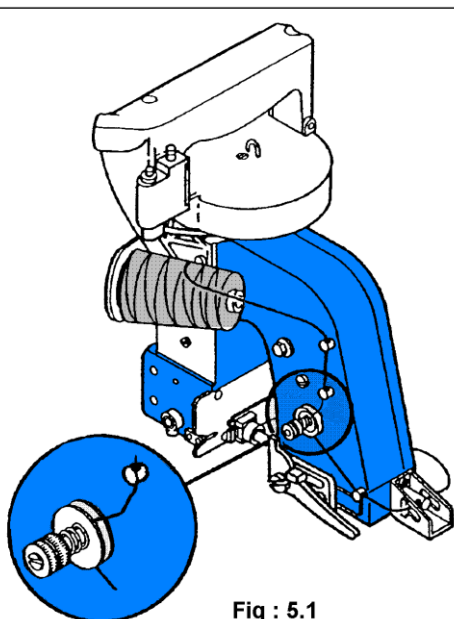


Fig : 5.1

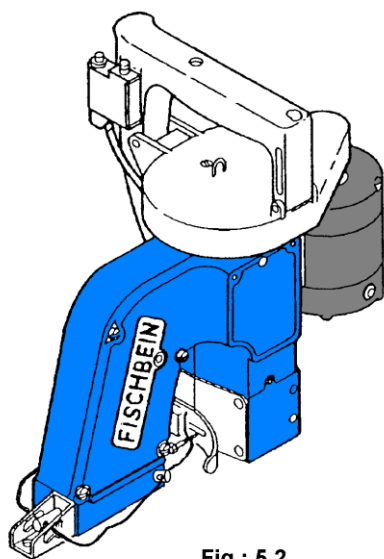


Fig : 5.2

1. Pass the thread through the first and second eyelet (11109).
2. Take the thread around the tension stud, inserting between the two tension discs (11114).
3. Pass it through the third eyelet (11109) close to the needle bar guarding (11101).
4. It should then be passed through the slotted opening in the needle bar guard.
5. Then through the needle bar (11500) and finally through the opposite side of the needle bar guard.
6. Push the thread through the thread guide (11321), to reach the needle front side.
7. Push the thread through the needle eye from the front side and pull it through for about 8 cm .
8. Take a bag or small test piece and introduce it between the throat plate and the presser foot, making sure that the needle is up. Start the machine and sew it through. This will provide a "thread chain ".
9. The machine is now ready to be used.

#### 9.2. Thread cone replacement.

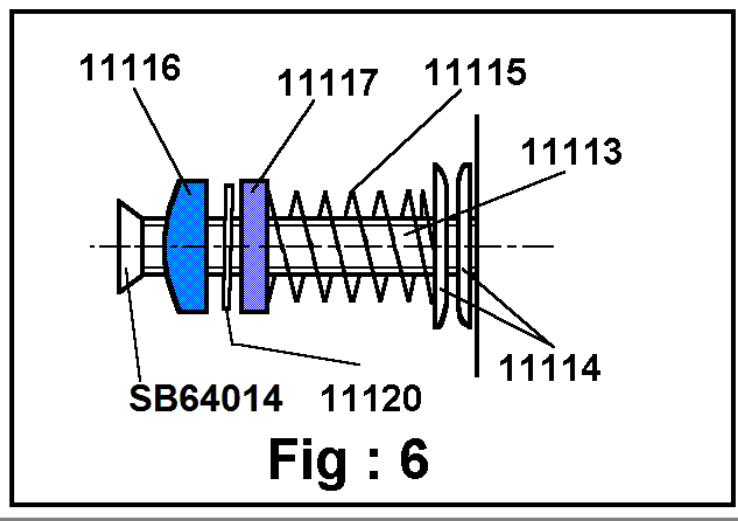
To install a new cone of thread:

1. Unscrew the wing nut (11805) at the base of the thread stand.
2. Remove the thread clamping bolt (11804).
3. Take a new cone of thread; place it on the thread clamping bolt and put it on the thread stand (11815) .
4. Re - attaching the wing nut and tightening it sufficiently. The cone must not be able to rotate or wobble on the thread stand



### 9.3. Tension adjustment.

- ✦ It should not typically be necessary to change the thread tension unless you change to a much different thread or are sewing a special type of material. Consult your dealer or a Fischbein service representative for questions concerning special thread applications.



- ✦ The spring (11115) determines the tension on the thread when pulled through the two discs (11114).
- ✦ By turning the nuts of the tension discs clockwise, you will get more thread tension, by turning in the opposite

direction you will reduce that tension.

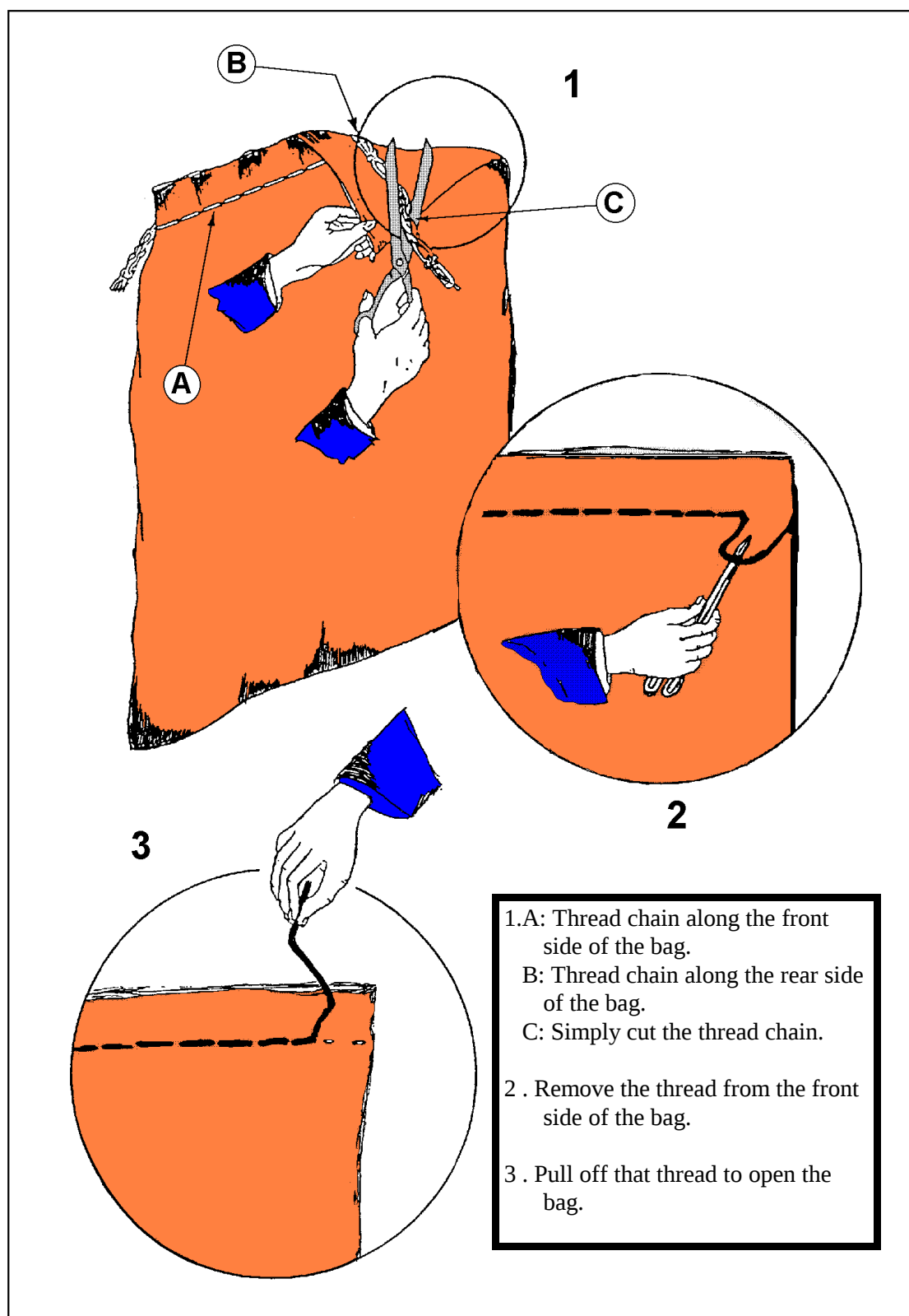
- ✦ The first nut (11117), close to the spring (11115) is there to adjust the tension, the second nut (11116) and the washer lock (11120), serve to lock the adjustment.
- ✦ The screw (SB64014) prevents eventual loss of the nuts (11116&11117) and has no adjustment purpose.
- ✦ Start with minimum tension initially and examine the stitch. If it appears too loose, gradually tighten the tensioning nut until a proper stitch is achieved. Be sure to tighten the locking nut when the proper setting is reached.



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## 10.HOW TO OPEN A SEWN BAG?





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## 11.MAINTENANCE AND SMALL REPAIRS.

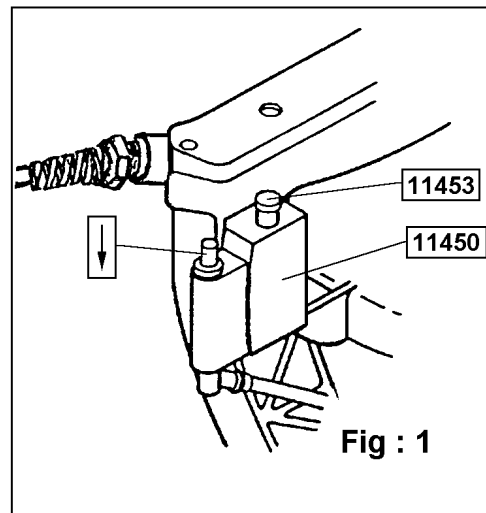
### **WARNING !!!!**

**Always unplug the machine before starting maintenance or repair.**

#### **11.1. DAILY MAINTENANCE.**

##### 11.1.1. Lubricating the machine in operation.

1. Before closing your first bag, be certain to see that the lubrication mechanism is functioning properly.
2. To speed oil through the machine mechanism you must simply press the oil pump button 2 or 3 times in succession. You will see the oil flowing through the feeder tube as you do. This should be performed every 2 hours of machine usage. The wicking inside the housing carries the dispensed oil to other moving parts near the looper and needle bar. Do not remove the wicking from the MODEL F. If the wicking (11508) becomes worn and thin, replace it immediately.
3. Check the level of the oil pump regularly. Always fill with genuine Fischbein machine oil (12801).
4. Always replace the oil reservoir cap to avoid contaminating the lubricant. This could cause the oil lines to plug and prevent lubrication of the machine parts.
5. We recommend pushing the oil pump while the machine is running to give better oil distribution inside the machine.



##### 11.1.2. Cleaning of the machine.

Each day, clean the machine of any dust or accumulated debris. This can easily be done by blowing out the machine cavities with compressed air or by using a dry bristle brush.

Sticking particles must be removed by using a small brush.

Do not forget to clean around the bottom of the machine, especially around the looper and the knives.

If you are working in a very dusty environment, we recommend this cleaning operation twice a day. To do that, simply slide open the looper cover (11102). Blow out the inside with compressed air. Close the looper cover and tighten the cover pivot screw (11108) if necessary.

**By doing these operations daily, you will increase the life of your machine.**



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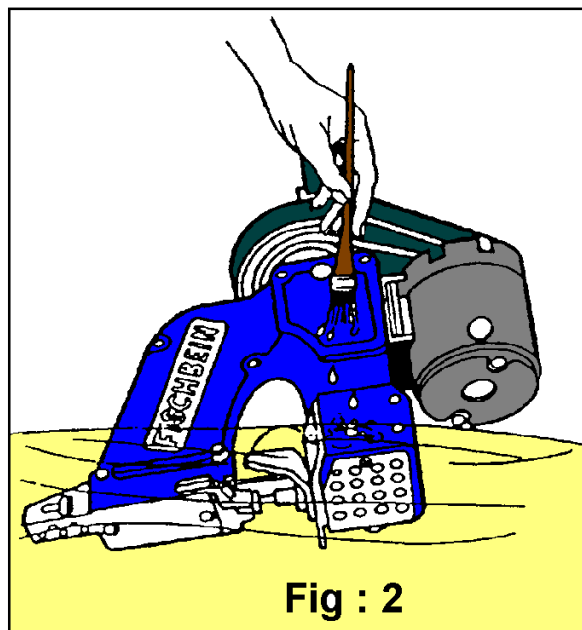
## 11.2. WEEKLY MAINTENANCE.

### **WARNING!!!!**

**Always disconnect the machine from the electrical power source before performing any maintenance or adjustment**

Clean the machine weekly, for a few minutes in a cleaning oil bath.  
How to proceed?

1. Fill in a small tank with cleaning oil up to 6 cm maximum.
2. Remove looper cover located at the bottom of the machine and the belt pulley cover and handle.
3. Plunge the machine vertically into the oil so that it is immersed to the level of the throat plate.
4. Turn the machine manually at the pulley so the moving parts are cleaned in the cleaning oil bath.
5. Remove the machine from the bath and drain any excess of oil from the mechanism.
6. Your machine is now free of dirt and parts are cleaned up.
7. If necessary you may want to loosen any stubborn dirt or grit with a small brush and rinse the machine again.
8. Afterwards you may want to clean the outside parts by using a small oiled brush. Wipe the machine off with a soft, absorbent cloth.
9. Check the motor brushes each week to be sure that they are of sufficient length. When the brushes become too short they may damage the motor. They should be 6 mm in length at minimum.



**Fig : 2**

### **CAUTION !!!!**

For a good job, always use Fischbein cleaning oil (12802).

**Never use benzene or similar aggressive or volatile products.** Such products could dry the oil from critical moving parts and cause extensive damage to the machine or melt some of the plastic components.  
Volatile solvent fumes could present a fire hazard if the machine is run where such vapors exist.

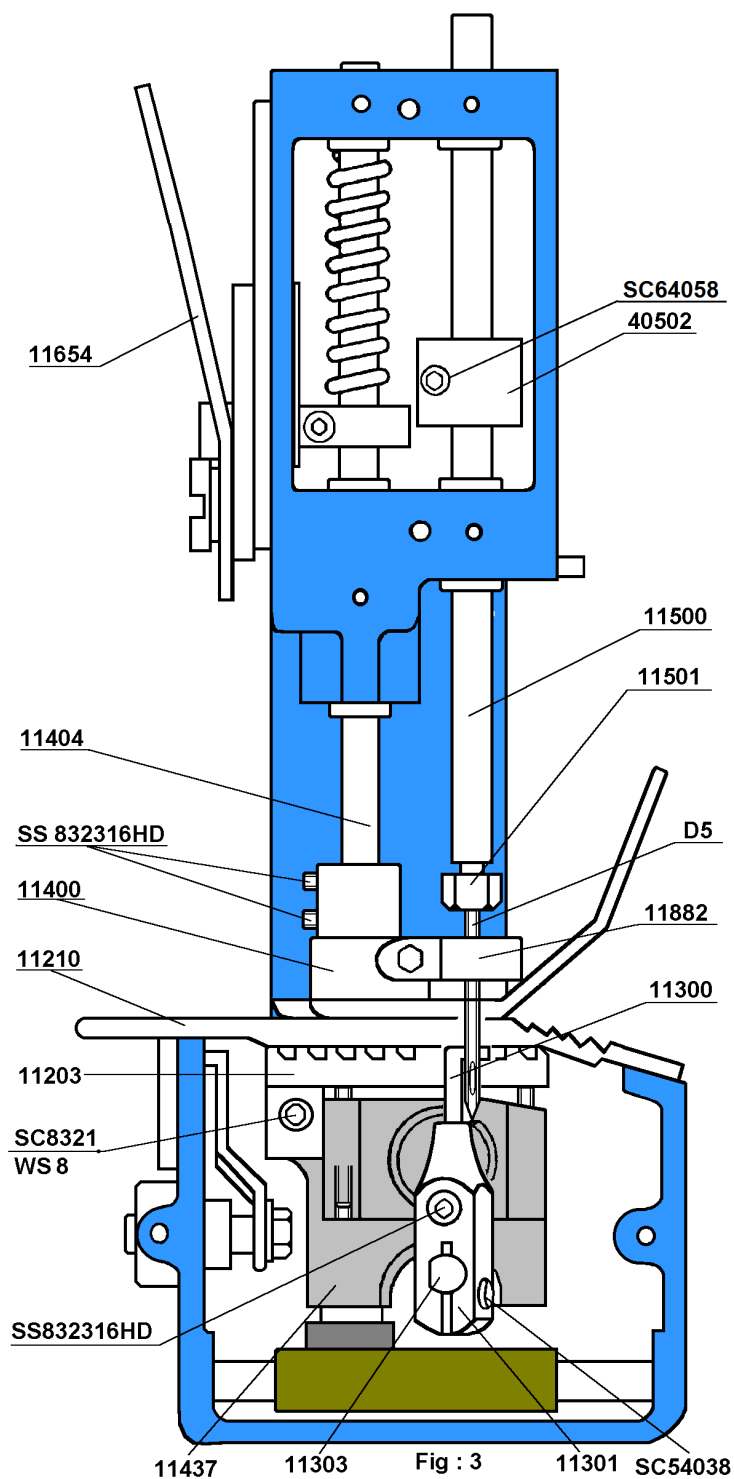


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## 12. BOTTOM SIDE VIEW OF THE F PORTABLE BAG CLOSER.

After removing needle bar guard (11101), looper cover (11102) and knife guard (11125).

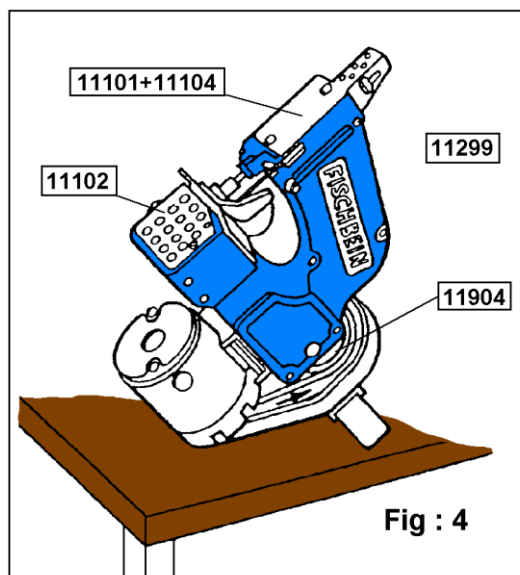


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## 13. REPLACEMENT OF PARTS: HOW TO PROCEED?

### 13.1. Placement of the machine for parts replacement.

Place the machine so that it rests on the motor and the machine handle is flat against the table. It should be sitting so that you are looking into the looper cavity and at the needle bar guard.

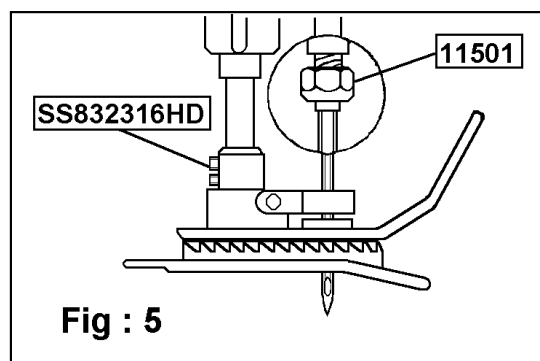
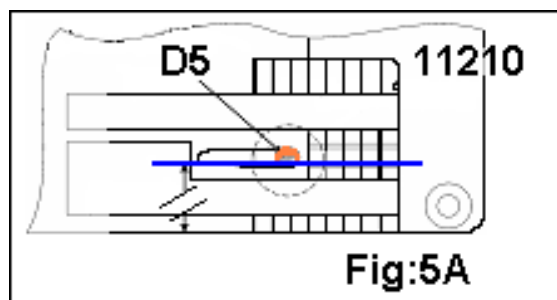
**Fig : 4**

### 13.2. How to replace a needle?

The needle is held in the needle bar by using the special nut (11501).

The nut should be adjusted with a 3/8 open end wrench or suitable adjustable tool (11645). Be careful not to strip the threads or the hex surface. **Do not use pliers.**

1. Unplug the machine.
2. Remove the pulley guard (11801).
3. Raise the presser foot to its detent position and rotate the machine manually until the needle bar is at its highest position.
4. Loosen the needle bar clamping screw (11501) with the wrench provided with the machine (11645).
5. Remove the needle. (D5)
6. Place the new needle in the needle bar making sure that it is fully inserted and that the long groove faces you and the needle scarf is to the back. The groove lips should match the base of the machine as close as possible and the eye should be facing you.
7. Tighten the screw to clamp the needle in place. The nut is designed so that it does not require excessive force to tighten, a firm torque will be sufficient.
8. Lower the presser foot.
9. Check to see if the needle is parallel with the throat plate (11210) See also Fig: 5A.
10. Replace the pulley guard.
11. Re - thread the machine.
12. Use always genuine Fischbein D5 needles.

**Fig : 5****Fig:5A****CAUTION !!!****Keep always your fingers away from under the needle.**



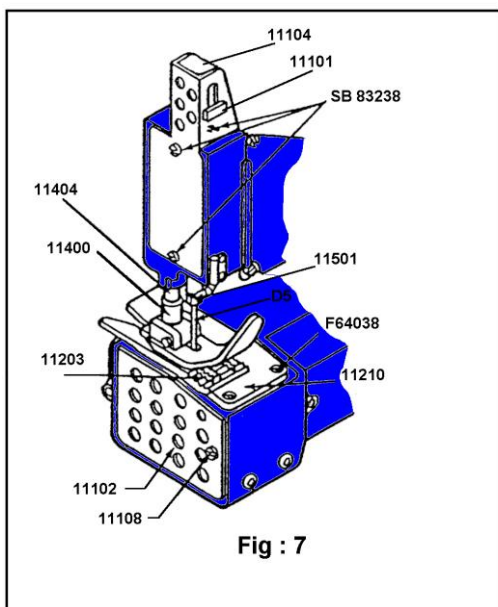
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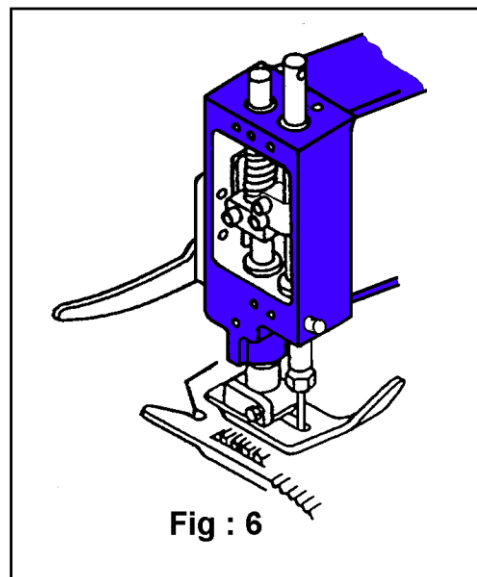
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### ***13.3. How to replace the looper, 11300.***

1. Unplug the machine.
2. Place the machine in the position described above.
3. Raise the presser foot to its detent position. See Fig: 6.
4. Remove the pulley guard (11801) and rotate the machine manually until the feed dog is at it's lowest position.
5. It's advisable to remove the needle (D5) for safety purposes.
6. Remove the looper cover (11102) by unscrewing screw (11108).



**Fig : 7**



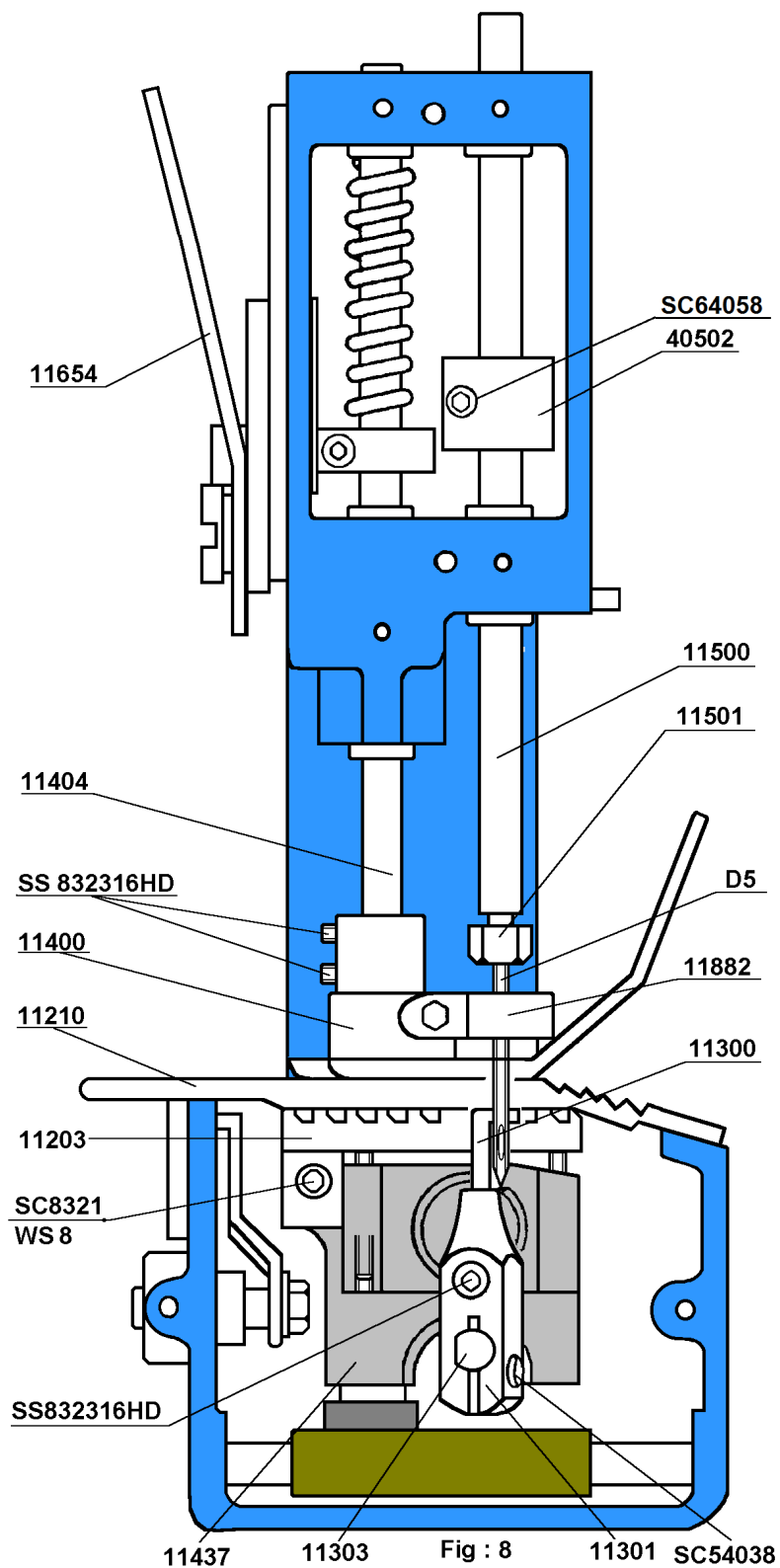
**Fig : 6**

7. Remove the throat plate (11210) by unscrewing the 3 screws (F64038).
8. Remove the feed dog (11203) by removing screw (SC8321) and the washer (WS8).
9. Remove the looper (11300) from the looper holder (11301) by loosening the set screw (SS832316HD).
10. Install the new looper (11300) into the looper holder (11301). Make sure that: the flat side of the looper is faces the set screw (SS832316HD) The looper is inserted completely to the bottom of the looper holder (11301) .This is very important for the adjustment of the machine.
11. Tighten the looper set screw (SS832316HD).
12. Replace the needle as per the previous procedure.
13. Now is a good time to check the machine timing (see timing procedure).
14. Replace the feed dog making sure that it is set correctly on the height adjustment screws.
15. Replace the throat plate.
16. Replace the looper cover and check to see that all screws are tight.
17. Replace the pulley guard.



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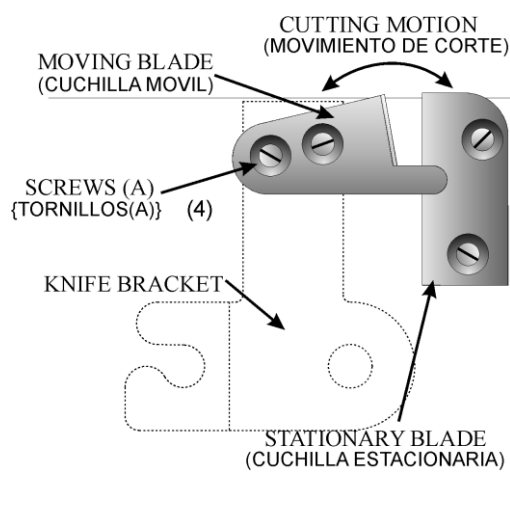
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### **13.4. HOW TO REPLACE THE FEED DOG 11203?**

1. Unplug the machine.
2. Place the machine in position described at the beginning of this chapter.
3. Get the presser foot up by getting the lever lifter presser foot (11654) down.
4. Remove the throat plate (11210).
5. Remove the looper cover (11102).
6. Remove the pulley guard (11801) and turn the machine until the needle reaches the highest point.
7. Unscrew both (SC8321) screw and (WS8) washer from carrier block (11437) to get feed dog (11203) out.
8. Set up a new (11203) feed dog on and set (SC8321+WS8) back again by secured screwing.
9. Reassemble other parts back.
10. Your machine is ready again for new jobs.

### **13.5. HOW TO REPLACE THE KNIVES?**

1. Unplug the machine.
2. Remove knife guard (11125).
3. Remove the pulley guard (11801).
4. Rotate the machine until the knives are in closed position. This will prevent damage when you replace the blades.
5. Remove the moving knife (11702) from his holder (11007) by unscrewing the 2 screws (F348316).
6. Now remove the stationary knife (11703) from the housing.
7. Replace the stationary knife (11703) on the housing orienting it so that the blade edge faces the moving knife bracket. For best results use only genuine Fischbein repair hardware, screw (F348516).
8. Mount the moving knife (11702) onto its holder (11007).
9. Check to see that the knives are flat to each other.
10. Replace the knives guard (11125) and pulley guard (11801).
11. Your machine is ready again.



### **13.6. SCREWS AND HARDWARE.**

All fasteners and hardware are assembled to Fischbein factory torque specifications, but because of the vibration inherent in any machine operation we recommend that periodic inspection and adjustment of the following hardware items be performed to ward off potential damage to the machine.



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**To proceed:**

1. Unplug the machine.
2. Remove the needle guard (11101) and the looper cover (11102).
3. Check the set screws on the needle bar clamp (40502), and tighten if necessary.
4. Check the set screw on the presser foot lifter (11652), and tighten if necessary.
5. Replace the needle guard (11101).
6. Remove the looper cover (11102).
7. Check the set screw and the clamp screw on the looper holder (11301), and tighten if necessary.
8. Check the socket cap screw holding the presser feet dog (11203) and tighten if necessary.
9. Check the hex head screw on the knife bracket (11007), and tighten if necessary.
10. Replace the looper cover (11102).
11. Remove the housing cover.
12. Check the set screws on the cam assembly (40310), and tighten if necessary.
13. Check the set screws on the connecting rod assembly (11079), and tighten if necessary.

**WARNING!!!**

**Never remove these screws or change the orientation of either of these components. Never try to remove a broken screw or attempt to drill it out. Consult your repair center.**

**Note:**

**If this assembly moves the machine must be re - timed, tighten it if necessary.**

14. Check the clamp screw on the cam follower assembly (40317).
15. Check the hex head screw attaching the connecting rod assembly (11079) to the needle arm assembly (40099), tighten it if necessary.
16. Replace the housing cover.
17. Finish by checking the throat plate screws and checking and adjusting the belt tension.
18. Reassemble the machine and it is ready to sew.

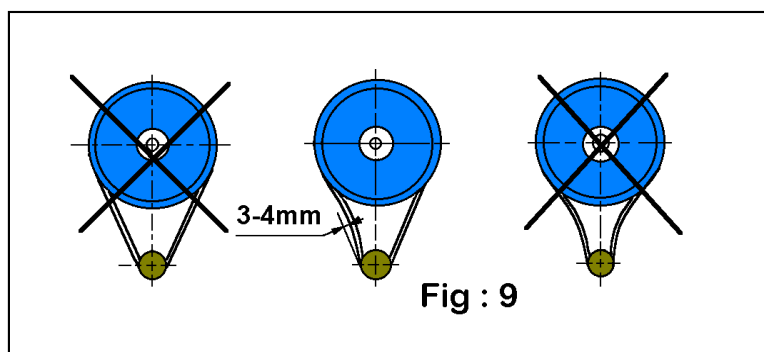


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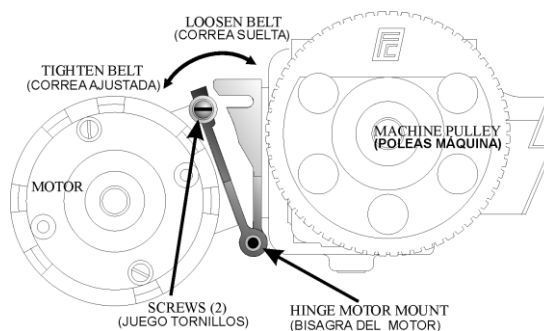
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### 13.7. REPLACING THE BELT.

1. Unplug the machine.
2. Remove the thread cone from the thread cone holder (11815).
3. Remove the handle assembly by unscrewing two screws (SC142034)
4. Loosen the two set screws (11908) on the hinged motor mount 11906



5. Press the motor mount completely closed to allow slack for removal of the used belt and to allow the new belt to be installed.
6. Install a new belt (11909) around both pulleys.
7. Apply tension to the belt by opening the motor mount hinge and tightening the two set screws. The belt must remain slightly flexible.
8. Reattach the handle assembly, and the thread cone holder + thread cone back on the machine.
9. Your machine is now ready to use.



### 14.MACHINE ADJUSTMENTS.

In order for your machine to perform to its fullest capabilities it is important to maintain the machine timing and to be sure that the key components in the sewing operation are in good repair.

Basic components important to the sewing operation are the:

- ⇒ Needle - it should be sharp and correctly oriented.
- ⇒ Feed Dog - the teeth should be sharp and the height should be correct.
- ⇒ Looper - it should be smooth and correctly adjusted.
- ⇒ Before any adjustment to the machine, it is important that you respect following basic rules.

1. Unplug the machine.
2. Always rotate the pulley in the direction of machine operation.
3. Install a new needle.
4. Adjust the machine in a 3-step procedure, followed by a running test.
5. It is important to follow these steps in order.

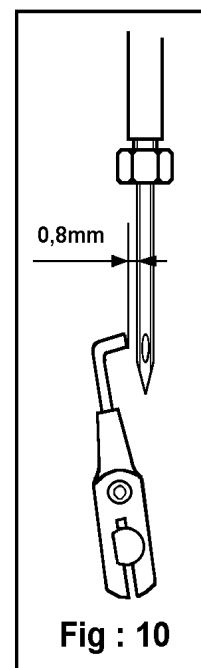


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#### **14.1. LOOPER STROKE ADJUSTMENTS.**

1. Put the machine on a flat surface, with the looper cover (11102) facing you.
2. The needle bar guard will be pointing up and the motor will be underneath, Fig: 4.
3. Raise the presser foot (11400) with the lifting lever (11654) until the presser foot is no longer touching the throat plate (11210), see Fig: 6.
4. Remove the looper cover (11102).
5. Remove the pulley guard (11801).
6. Remove the throat plate (11210), Fig: 7.
7. Remove the feed dog (11203), Fig: 3.
8. Turn the machine pulley (11904) until the looper (11300) is at maximum back stroke position to left of needle.
9. At this moment, the distance between the point of the looper and the left side of the needle must be of 0,8 mm. Use gage, 11302, to check that distance, Fig: 10.
10. If that distance is not correct, take off the housing cover (11299) and 6 screws (SC83212).
11. Loosen screws (SC63258) of the arm, follower cam (40317) and turn the looper shaft (11303) up to reaching the distance of 0,8 mm Tighten the screw SC63258.

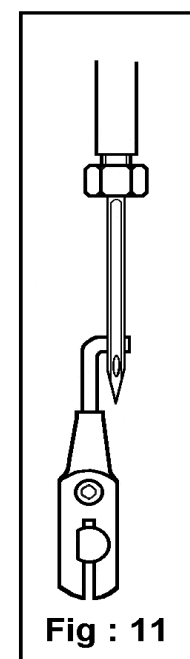


#### **14.2. ADJUSTMENT OF THE NEEDLE HEIGHT VERSUS THE LOOPER.**

1. Always adjust the needle height after the looper stroke adjustment has been made. See previous procedure.
2. Remove the needle bar guard (11101).
3. Turn the machine pulley (11904) in the direction of machine operation until the looper begins to come forward, toward the needle.
4. As the looper passes behind the needle the point of the looper should be visible past the right edge of the needle (0,8 mm max .) just before the bottom edge of the looper hook is seen in the eye of the needle, see Fig:11.

If adjustment is necessary.

1. Slightly loose the screw (SC64058) on the needle bar clamp assembly (40502).
2. Move the needle bar (11500) up or down until you reach an adjustment as per step 3.
3. Be sure that you do not rotate the needle bar or the machine pulley as you are performing this step.
4. When the proper setting is reached, tighten the screw (SC64058).
5. Rotate the machine trough one cycle to verify your adjustment.





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**NOTE!!**

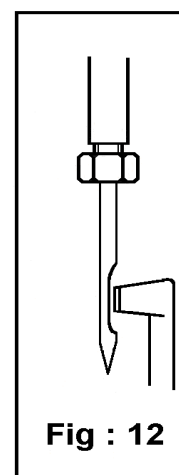
As you rotate the machine for timing purposes, always move forward. If you pass the setting point, simply turn the machine through the cycle, back to the point you require.

**14.3. LOOPER CLEARANCE ADJUSTMENT.**

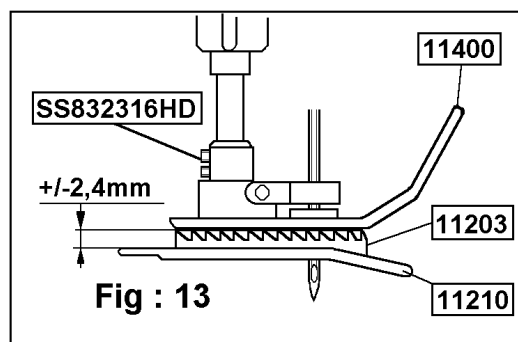
To verify this adjustment, you have to look at the machine from the side. The aim of this adjustment is that the point of the looper passes behind the needle, as close to the “needle scarf” as possible, without touching it. The needle scarf is the hollowed-out section of the needle on the un-grooved side just above the hole, see Fig: 12.

If an adjustment is necessary, please proceed as follows:

1. Rotate the machine until the looper is directly behind the needle. Do not forget; always rotate the pulley of the machine as the arrow indicates.
2. Loosen the socket cap screw (SC54038) on the looper holder.
3. Move the looper holder (11301) on the looper shaft (11303) until the looper is positioned as closely as possible to the needle without actually touching it. You should be able to pass a sheet of paper between the back of the needle and the looper edge.
4. When this is complete, tighten the socket cap screw on the looper holder.
5. Rotate the machine through a complete cycle to be sure that the looper clears the needle both on the up stroke and the back stroke of the cycle. When you have made or verified all of the adjustments, you can replace the guards, covers, and parts removed when you began.
6. Replace the needle bar guard (11101).
7. Replace the feed dog (11203) on the feed dog carrier block (11437).
8. Replace the throat plate (11210).
9. Replace the looper cover (11102).
10. Rotate the lifter lever back to its initial position. This will place the presser foot on the throat plate.
11. Cycle the machine until the feed dog is at the top of its stroke to verify the feed dog height. This should be approximately 2,4 mm. The trailing edge of the feed dog should be 0,25 mm higher than the leading edge. This adjustment is made at the factory and should not need changing, even when replacing the feed dog.
12. Your bag closer is now ready to use!!!



**Fig : 12**



**Fig : 13**

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#### **14.4. MOTOR INSTRUCTIONS.**

The motors used on Fischbein bag closers are not designed for long-run periods without stops.

They are produced specially for numerous starts and stops as is the case for bag closing operations.

Little maintenance will be required but periodic inspection of the motor brushes will assure that your machine continues to operate at maximum efficiency. The brushes should be at least 6 mm in length in order for the motor to run properly.

We recommend that the brush be checked after every 100 hours of use.

To check and replace the brushes if necessary use the following procedure:

1. Unplug the machine.
2. Unscrew brush holders from the motor and take out the used brushes.
3. Check the length, if they are still useable, replace them and continue to use the machine.
4. If they are close to being expended, it may be time to order replacements.
5. If you are replacing your brushes, do so now.
6. Replace the brush holder caps.
7. The machine is now ready to use.

#### **15.TROUBLE - SHOOTING LIST.**

|                                              |                                                                                                                                                                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Stitch is too loose.                      | 1. Recheck thread tension.<br>2. Adjust thread between the tension discs, 11114.                                                                                                                                                 |
| 2. Stitch is too short.                      | 1. Eventually replace feed dog, 11203.                                                                                                                                                                                           |
| 3. The bag is tearing up at the sewing line. | 1.Do not hold the machine during the sewing operation of the bag.<br>2. Is there still good transportation of the bag?<br>3. Is there enough pressure on the presser foot, 11400?<br>4. Has the bag quality been changed?        |
| 4. Machine is no longer running!             | 1. Is the plug secure in position?<br>2. Is the power cord broken or still, ok?<br>3. Pull on switch, and if you hear a "click" do not change switch, 12500.<br>4. Check motor brushes for adequate length.                      |
| 5. Thread breakage.                          | 1. Is thread unrolling properly?<br>2. Check threads tension.<br>3. Is thread blocking thread guides?<br>4. The needle is too hot!<br>5. Use oiled thread. (pay attention to oil quality )<br>6. Call your Fischbein specialist. |



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|                                                                                          |                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. Machine is not providing a thread chain at the end of the bag or is missing stitches. | 1. Check thread path.<br>2. Check threads tension.<br>3. Is the presser foot 11400 still passing along the plate 11210?<br>4. Is the feed dog 11203 worn out?<br>5. Is needle well fixed on the machine?<br>6. Is looper 11300 affected or worn out?<br>7. Look at the adjustment of the machine. |
| 7. Needle keeps breaking.                                                                | 1. Check the looper alignment.<br>2. Check the needle alignment to the throat plate and presser foot needle guide                                                                                                                                                                                 |

**If problems still occur call your Fischbein specialist or Fischbein Brussels.**

## 16.SPARE PARTS.

| MODEL F SPARE PARTS AND ACCESSORIES |                                                  |            |                                        |
|-------------------------------------|--------------------------------------------------|------------|----------------------------------------|
| Item                                | Quantity                                         | Part No.   | Description                            |
| 1                                   | 2                                                | D5 (13050) | Needles (25/package)                   |
| 2                                   | 2                                                | 11300      | Looper                                 |
| 3                                   | 2                                                | 11203      | Feed Dog                               |
| 4                                   | 1                                                | 11400      | Assy Presser Foot                      |
| 5                                   | 2                                                | 11702      | Moving Knife                           |
| 6                                   | 2                                                | 11703      | Stationary Knife                       |
| 7                                   | 1                                                | 11704      | Knife Tension Spring                   |
| 8                                   | 2                                                | 11909      | Drive Belt                             |
| 9                                   | 1                                                | 11210      | Throat Plate                           |
| 10                                  | 1                                                | 67342      | 12VDC Motor                            |
| 11                                  | 4                                                | 67342-BCAP | Screw, cap Brush Holder 12 Volt Motor  |
| 12                                  | 2                                                | 67277      | Motor Brush                            |
| 13                                  | 1                                                | 11302      | Looper Gauge                           |
| 14                                  | 1                                                | 13069      | Lubricating Oil (NOT FOOD APPROVED) ** |
| 15                                  |                                                  | 1550PLUS   | Model F Suspension Unit                |
| 16                                  |                                                  | 11147      | Model F Tool Kit                       |
|                                     |                                                  |            |                                        |
| **                                  | For Food Approved Oil contact Fischbein Brussels |            |                                        |



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# **FISCHBEIN BAG CLOSER**

## **MODEL F**

**TYPE : F-12VDC**

## **DRAWINGS**

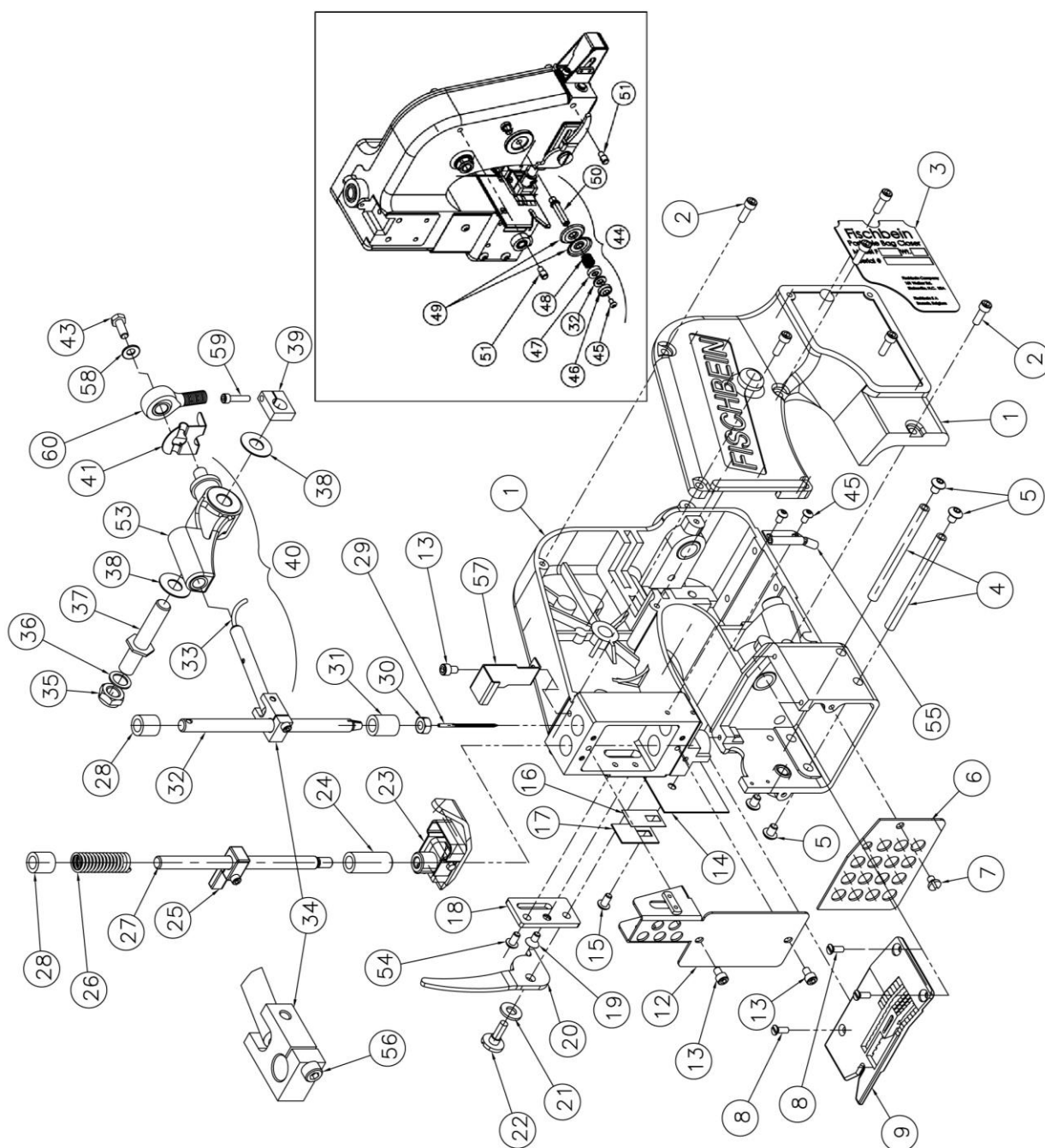
## **AND PARTS LIST**



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## 17.PLATE A: HOUSING, NEEDLE LEVER, AND PRESSER FOOT.



**WARNING:** Inscription "HIJ" on part 60 must face part 41



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**PLATE A: HOUSING - NEEDLE, LEVER and PRESSER FOOT.  
PARTS LIST.**

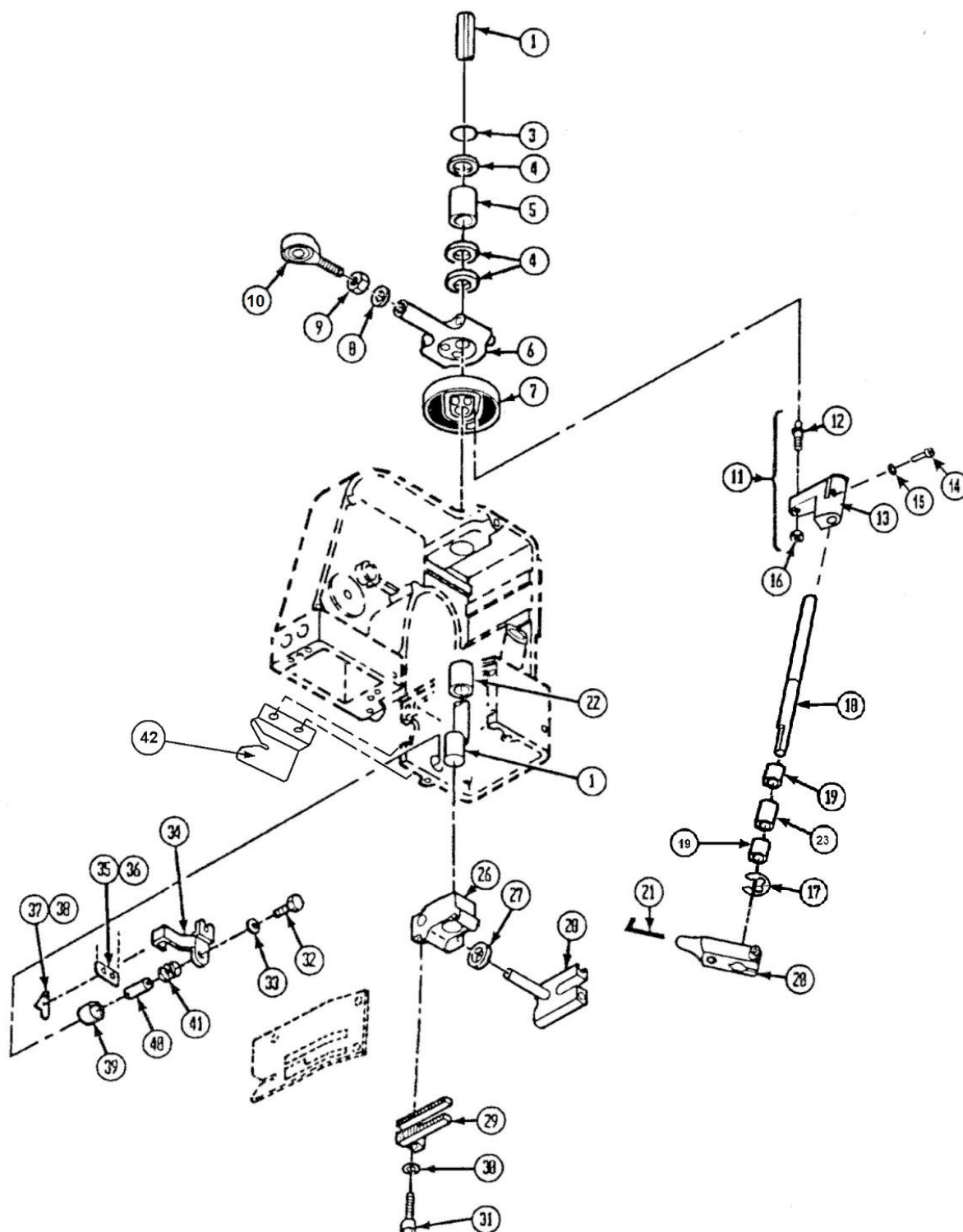
| Item . | Qty . | Part number | Description :                           |
|--------|-------|-------------|-----------------------------------------|
| 1      | 1     | 11448       | Housing assembly                        |
|        | 5     | SS 832316HD | Screw , bushings Soc , set # 8-32 x3/16 |
| 2      | 6     | SC83212     | Screw # 8-32 x 5/8                      |
| 3      | 1     | 40004       | Name plate                              |
| 4      | 2     | 11010       | Stud , feed dog , carrier slide .       |
| 5      | 4     | SB 103214   | Soc button screw # 10-32 x1/4           |
| 6      | 1     | 11102       | Cover , looper                          |
| 7      | 1     | 11108       | Stud looper cover                       |
| 8      | 3     | F 64038     | Flat sunk screw # 6-40 x 3/8            |
| 9      | 1     | 11210       | Throat plate                            |
| 12     | 1     | 11101       | Guard needle bar .                      |
| 13     | 4     | SC 83214    | Screw, Soc CAP # 8-32 x 1/4             |
| 14     | 1     | 11009       | Plate , cover                           |
| 15     | 1     | B103214     | Binding Screw #10-32x1/4                |
| 16     | 1     | 11657       | Cover slide pad                         |
| 17     | 1     | 11656       | Pad , slide                             |
| 18     | 1     | 11651       | Plate lever                             |
| 19     | 2     | SF 832516   | Screw Soc Flat # 8-32 x 5/16            |
| 20     | 1     | 11654       | Lever lifter , presser foot             |
| 21     | 2     | 11655       | Washer spring                           |
| 22     | 1     | 11653       | Screw , pivot                           |
| 23     | 1     | 11400       | Assy. presser foot                      |
|        | 1     | 11402       | Bolt , hinging                          |
|        | 1     | 11711       | Nut                                     |
|        | 2     | SS 832316HD | Screw , bushings Soc , set # 8-32 x3/16 |
|        | 1     | 11882       | Guard needle                            |
| 24     | 1     | 11444       | Bushing , lower                         |
| 25     | 1     | 11652       | Lifter presser foot                     |
| 26     | 1     | 11414       | Spring presser bar                      |
| 27     | 1     | 11404       | Presser bar                             |
| 28     | 2     | 11442       | Bushing , upper presser bar             |
| 29     | 1     | 13050       | Needle D5 , round point                 |
| 30     | 1     | 11501       | Nut needle bar                          |
| 31     | 1     | 11443       | Bushing needle bar , lower              |
| 32     | 1     | 11500       | Needle bar                              |
| 33     | 1     | 11508       | Wicking                                 |
| 34     | 1     | 40502       | Assy. Clamp needle bar                  |
| 35     | 1     | 11268       | Nut , lock (Nylock) 3/8-24NC            |
| 36     | 1     | A 3934      | Washer flat # Idler                     |
| 37     | 1     | 11287       | Pin pivot                               |
| 38     | 2     | WT 38132    | Washer thrust needle lever              |
| 39     | 1     | 11008       | Clamp, pivot – needle                   |
| 40     | 1     | 40099       | Assy , clamp needle bar and lever       |
| 41     | 1     | 11510       | Spring                                  |
| 42     | 1     | WF 10       | Flat washer # 10                        |
| 43     | 1     | H 103212    | Hex screw # 10-32 x 1/2                 |
| 44     | 1     | 11112       | Assy , thread tension                   |
| 45     | 1     | SB 64014    | Screw Soc Btnn # 6-40 x 3/8             |
| 46     | 1     | 11116       | Nut , tension - upper                   |
| 47     | 1     | 11117       | Nut , tension - lower                   |
| 48     | 1     | 11115       | Spring , tension                        |
| 49     | 2     | 11114       | Disc , tension                          |
| 50     | 1     | 11113       | Stud , tension                          |
| 51     | 4     | 11109       | Eyelet , thread pull off                |
| 52     | 1     | 11120       | Washer lock 1/4" LT tension             |
| 53     | 1     | 11025       | Lever, Needle                           |
| 54     | 2     | SB832516    | Screw Soc Btnn # 8-32x5/16              |
| 55     | 1     | 11321       | Tube Thread Guide, front                |
| 56     | 1     | SC64012     | Screw, Soc Cap #6-40x1/2"               |
| 57     | 1     | 11104       | Guard Needle Bar, Back                  |
| 58     | 1     | WS10        | Washer, Spring #10                      |
| 59     | 1     | SC64058     | Screw, Soc Cap #6-40x5/8"               |
| 60     | 1     | 11607       | Bearing, Rod End                        |



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## 18.PLATE B: MAIN SHAFT AND LOOPER ASSEMBLY.





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## PLATE B : MAIN SHAFT AND LOOPER ASSEMBLY .

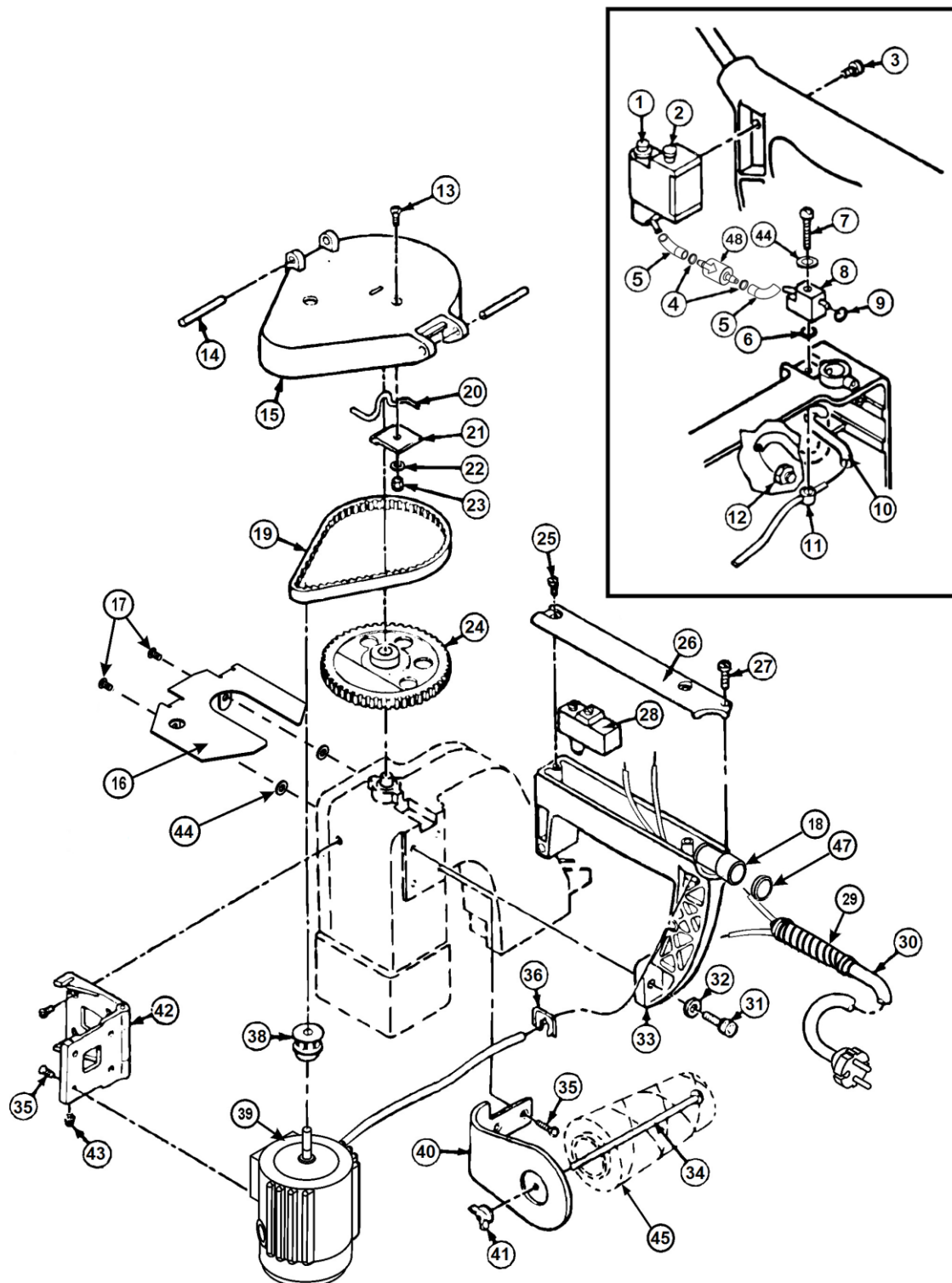
| Item . | Qty. | Part number . | Description :                                               |
|--------|------|---------------|-------------------------------------------------------------|
| 1      | 1    | 11600         | Main shaft                                                  |
|        | 1    | 11616         | Collar , main shaft (only for model FB)                     |
|        | 1    | SC 54038      | Soc. cap screw # 5-40 x 3/8                                 |
| 3      | 1    | 10420         | Ring "O"                                                    |
| 4      | 3    | 11006         | Washer trust                                                |
| 5      | 1    | 11441         | Bushing , main shaft rear                                   |
| 6      | 1    | 11079         | Assembly connecting rod & eccentric (replacement)           |
| 7      | 1    | 40310         | Assy. cam looper                                            |
|        | 1    | SS 83212CP ** | Soc.set screw # 8-32 x 1/2 cone point ** Max Torque: 0,14Nm |
|        | 1    | SS 83212 **   | Soc.set screw # 8-32 x 1/2 ** Max Torque: 0,14Nm            |
| 8      | 1    | WIT 516       | Washer , internal tooth                                     |
| 9      | 1    | 11608         | Nut , hex special                                           |
| 10     | 1    | 11607         | Bearing , rod end                                           |
| 11     | 1    | 40317         | Assy , arm & stud cam follower                              |
| 12     | 1    | 11308         | Stud Cam follower                                           |
| 13     | 1    | 40307         | Arm cam follower                                            |
| 14     | 2    | SC 63258      | Soc. cap screw # 6-32 x 5/8                                 |
| 15     | 2    | 40313         | Washer flat                                                 |
| 16     | 1    | 11309         | Nut , hex special                                           |
| 17     | 1    | 67693         | E-clips (1/4" shaft)                                        |
| 18     | 1    | 11303         | Shaft looper                                                |
| 19     | 2    | 11449         | Bushing , looper shaft 1/2" Long                            |
| 20     | 1    | 11301         | Holder looper                                               |
|        | 1    | 12025         | Soc.set screw # 8-32 x 3/16 HD                              |
|        | 1    | SC 54038      | Soc.cap screw " 5-40 x 3/8                                  |
| 21     | 1    | 11300         | Looper                                                      |
| 22     | 1    | 11447         | Bushing main shaft , front                                  |
| 23     | 1    | 11454         | Spacer                                                      |
| 26     | 1    | 11437         | Carrier block , feed dog                                    |
|        | 4    | SS 64038FP    | Soc.set screw # 6-40 x 3/8 FP                               |
|        | 1    | WIT 8         | Washer # 8 , internal tooth                                 |
|        | 1    | 11003         | Clip angle                                                  |
| 27     | 1    | 11410         | Washer felt                                                 |
| 28     | 1    | 11446         | Slide                                                       |
| 29     | 1    | 11203         | Feed dog                                                    |
| 30     | 1    | WS 8          | Washer spring # 8                                           |
| 31     | 1    | SC 8321       | Soc. cap screw # 8-32 x 1                                   |
| 32     | 1    | H 103238      | Hex.screw # 10-32 x 3/8                                     |
| 33     | 1    | WIT 10        | Washer # 10 , internal tooth                                |
| 34     | 1    | 11007         | Bracket knife                                               |
| 35     | 1    | 11703         | Knife , stationary                                          |
| 36     | 2    | F 348516      | Flat sunk screw # 3-48 x 5/16                               |
| 37     | 1    | 11702         | Knife , moving                                              |
| 38     | 2    | F 348316      | Flat sunk screw # 3-48 x 3/16                               |
| 39     | 1    | 11016         | Bushing , knife shaft                                       |
| 40     | 1    | 11707         | Shaft knife                                                 |
| 41     | 1    | 11704         | Spring , knife tension                                      |
| 42     | 1    | 11125         | Guard knife                                                 |
| 43     | 1    | SB 103214     | Soc.button screw # 10-32 x 1/4                              |
| 44     | 1    | SB 83214      | Soc. button screw # 8-32 x 1/4                              |



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## 19.PLATE C: HANDLE AND ELECTRIC DRIVE.



**The arrow flow direction in the 11412 check valve must be as shown in the picture**



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## PLATE C: HANDLE AND ELECTRIC DRIVE

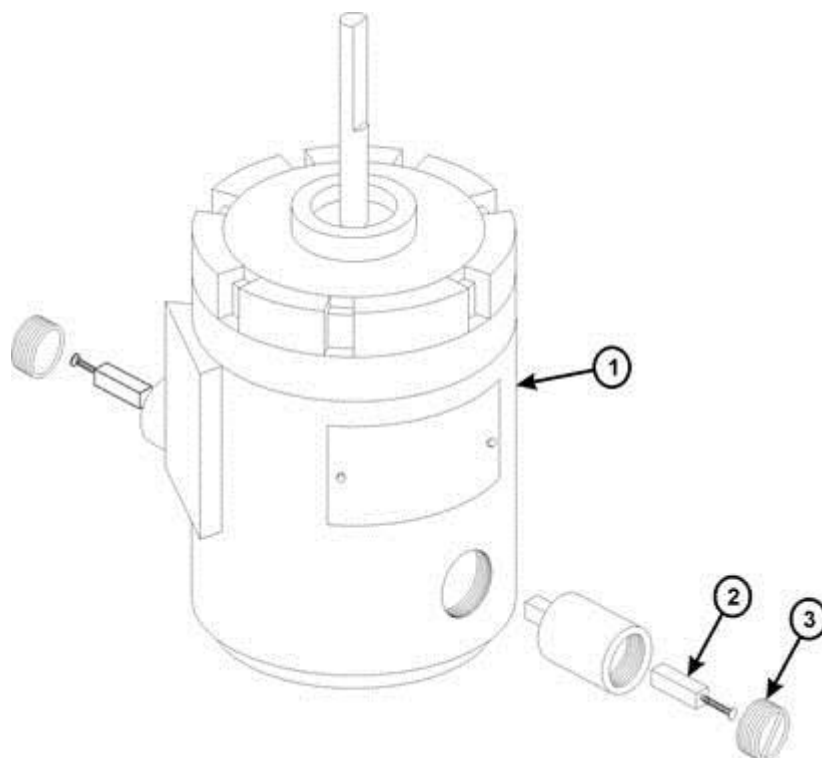
| Item | Qty. | Part number | Description .                                                  |
|------|------|-------------|----------------------------------------------------------------|
| 1    | 1    | 11450       | Assy. oil pump                                                 |
| 2    | 1    | 11453       | Plug , pump oil                                                |
| 3    | 1    | SB 83212    | Screw soc. Btn # 8-32 x 1/2                                    |
| 4    | 4    | 11472       | Clamp , spring tubing                                          |
| 5    | 1    | 85128       | Tubing oil pump Tygon 1/4" OD (90mm long)                      |
| 6    | 1    | 11479       | Ring " O "                                                     |
| 7    | 1    | SB 832114   | Screw soc. Btn # 8-32 x 11/4                                   |
| 8    | 1    | 11475       | Assy , valve block manifold                                    |
| 9    | 1    | 11478       | Ring " O "                                                     |
| 10   | 1    | 85128       | Tubing oil pump Tygon 1/4" OD (153mm long)                     |
| 11   | 1    | 11485       | Weldment , manifold inside                                     |
| 12   | 1    | 11490       | Fitting                                                        |
| 13   | 1    | SF 832516   | Screw Soc.Flat # 8-32 x 5/16                                   |
| 14   | 2    | PS 6.6x40   | Spring Pin 1/4" Ø x 1.5"                                       |
| 15   | 1    | 11018       | Guard Belt (top) Assy , guard                                  |
| 16   | 1    | 11801       | Guard pulley drive                                             |
| 17   | 2    | SB102438    | Screw Soc Btn # 10-24x3/8BO                                    |
| 18   | 1    | 11784       | Adapter                                                        |
| 19   | 1    | 11909       | Belt Nut # 8-32                                                |
| 20   | 1    | 11012       | Hanger Pulley , assy                                           |
| 21   | 2    | 11017       | Clip , hanger                                                  |
| 22   | 2    | WIT8        | Washer , internal tooth # 8                                    |
| 23   | 1    | NH832       | Nut, Hex 8-32                                                  |
| 24   | 1    | 11904       | Pulley Machine                                                 |
| 25   | 2    | SB 103212   | Soc.button screw # 10-32 x 1/2"                                |
| 26   | 1    | 11011       | Cover , handle                                                 |
| 27   | 1    | SC 44034    | Screw Soc. Cap # 4-40 x 3/4                                    |
| 28   | 1    | 12500       | Switch                                                         |
| 29   | 1    | 12428       | Cord set reinforcement                                         |
| 30   | 1    | 40058       | Cord set                                                       |
| 31   | 2    | SC 142034   | Soc.cap screw # 1/4-20 x 3/4                                   |
| 32   | 2    | WS 14       | Washer spring # 1/4                                            |
| 33   | 1    | 11028       | Handle                                                         |
| 34   | 1    | 11804       | Bolt , thread clamping                                         |
| 35   | 10   | SF 103238   | Flat soc.screw # 10-32 x 3/8                                   |
| 36   | 1    | 11073       | Strain relief                                                  |
| 38   | 1    | 11902       | Pulley motor                                                   |
| 39   | 1    | 67753       | Motor 230 volt                                                 |
| 39.1 |      | 67753-110V  | Motor 110 volt                                                 |
| 39.2 |      | 67753-24V   | Motor 24 volt                                                  |
| 39.3 |      | 67342       | Motor 12 volt DC                                               |
| 40   | 1    | 11815       | Stand , thread                                                 |
| 41   | 1    | 11805       | Wing nut                                                       |
| 42   | 1    | 11906       | Assy , hinge motor mount                                       |
| 43   | 2    | 11908       | Screw , hinge                                                  |
| 44   | 3    | WN8         | Washer Nylon #8                                                |
| 45   | 1    | 25010..     | Thread cone                                                    |
| 46   |      | 11084       | Assy , belt guard and handle (items ,13..15,17...20,22..24,29) |
| 47   | 1    | 67877       | Washer Nylon in part 11784                                     |
| 48   | 1    | 11412       | Check Valve, Portable Oil Line                                 |



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**20.PLATE: D – MOTOR – 12Volt DC Ref: 67342**



**PLATE D : MOTOR –230 Volt Ref: 67753**

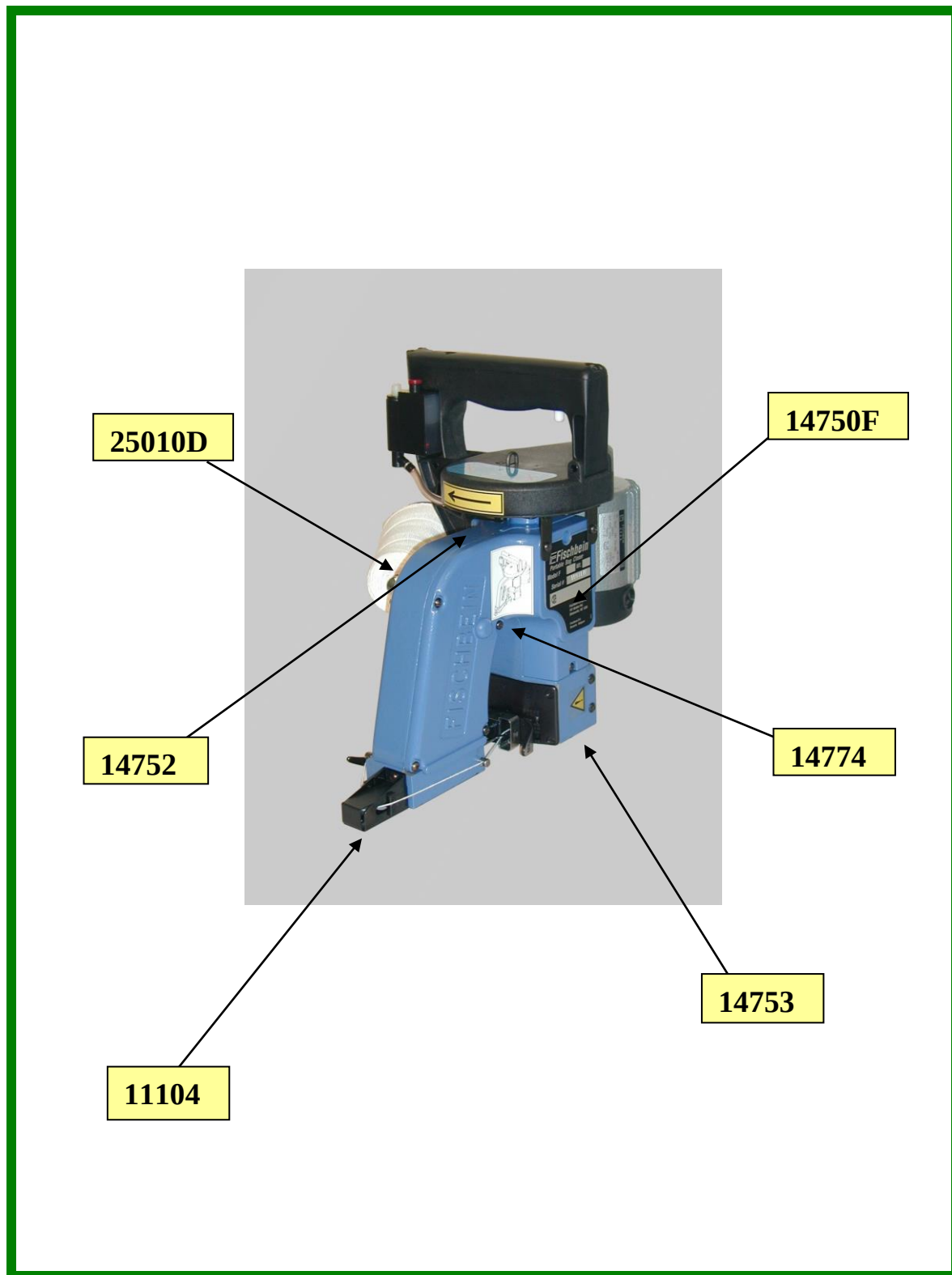
| Item. | Qty . | Part number | Description           |
|-------|-------|-------------|-----------------------|
| 1     | 1     | 67342       | Motor 12VDC           |
| 2     | 2     | 67277-2     | Carbon Brush 6x8x15   |
| 3     | 2     | 67278       | Brush Cap 12VDC motor |
|       | 2     | 69339       | screw                 |
|       |       |             |                       |
|       |       |             |                       |
|       |       |             |                       |



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## 21.PLACEMENT STICKERS AND ADD GUARDS.

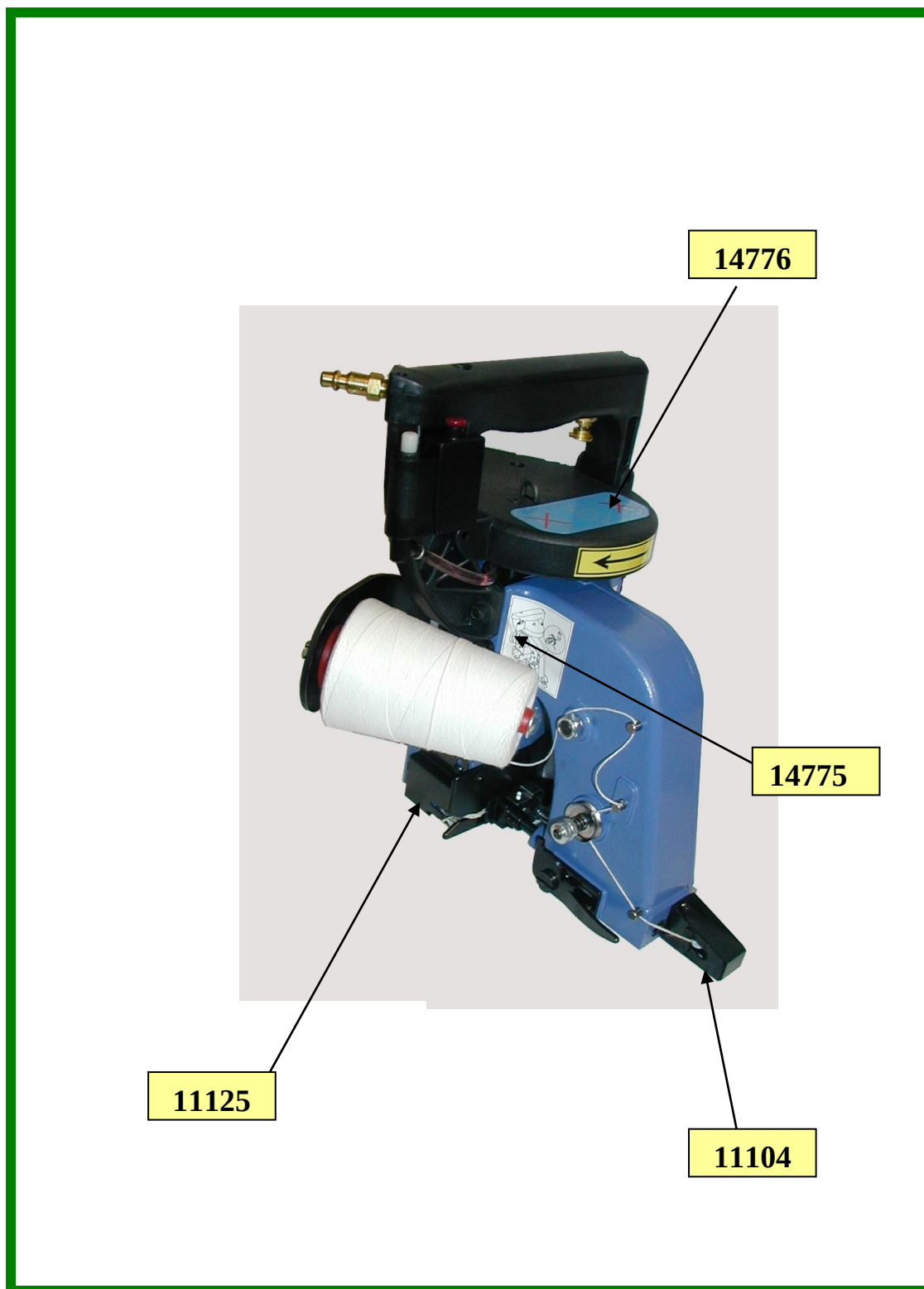




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## PLACEMENT STICKERS AND ADD GUARDS.





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## **22.SAFELY DISPOSING OF A MODEL F.**

If a MODEL F sewing machine becomes damaged beyond repair or simply worn to a nonfunctional state after years of service, it should be put out of service only after it is safe to dispose of it.

First, drain all the oil according to your appropriate local environmental regulations. After the oil is drained and disposed of, bring the sewing head to a recycling center or metal scrap facility.

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## 23.SPARE PARTS WITH FISCHBEIN LOGO

| <b>PARTS WITH FISCHBEIN LOGO - UPDATED FEBRUARY 24, 2009</b> |                                                   |
|--------------------------------------------------------------|---------------------------------------------------|
| <b>PART NO</b>                                               | <b>DESCRIPTION</b>                                |
| 10017                                                        | PLATE, THROAT (STD) LO-SP                         |
| 10018                                                        | PLATE, THROAT (LONG STITCH) LO-SP                 |
| 10048                                                        | RESTRAINER, ROD - CONNECTION                      |
| 10059                                                        | HOLDER, LOOPER                                    |
| 10060                                                        | LOOPER, TWO THREAD                                |
| 10078                                                        | DOG, FEED - STANDARD                              |
| 10079                                                        | DOG, FEED - LONG STITCH                           |
| 10155                                                        | SHANK, PRESSER FOOT                               |
| 10156                                                        | BLOCK, HINGE - PRESSER FOOT                       |
| 10157                                                        | ASSY, PRESSER FOOT                                |
| 10164                                                        | EYELET, THREAD GUIDE                              |
| 10165                                                        | GUIDE, THREAD                                     |
| 10171                                                        | PULL-OFF, NEEDLE THREAD                           |
| 10174                                                        | GUARD, NEEDLE                                     |
| 10177                                                        | HOLDER, GUARD - NEEDLE                            |
| 10185                                                        | FOOT, PRESSER - CURVED                            |
| 10199                                                        | ASSY, PULLEY - VARIABLE                           |
| 10227                                                        | GAGE, OIL PRESSURE                                |
| 10230                                                        | GAGE, SEWING HEAD TIMING                          |
| 10285                                                        | FOOT, PRESSER (RIB CORD)                          |
| 10302                                                        | PLATE, RAMP CUTTER THROAT (LG STCH)               |
| 10303                                                        | PLATE, RAMP CUTTER THROAT (STD)                   |
| 10306                                                        | KNIFE, BED                                        |
| 10307                                                        | KNIFE, MOVING                                     |
| 10434                                                        | POST, OFFSET                                      |
| 10443                                                        | KNIFE, MOVING - WIDE                              |
| 10479                                                        | FOOT, PRESSER (TAPE/CHAIN)                        |
| 10481                                                        | ASSY, PRESSER FOOT - TAPE                         |
| 10484                                                        | FOOT, PRESSER (TAPE)                              |
| 10486                                                        | DOG, FEED - STANDARD MV                           |
| 10494                                                        | FOOT, PRESSER (1 1/4 TAPE)                        |
| 10496                                                        | DOG, FEED - STANDARD (1 1/4 TAPE)                 |
| 10555                                                        | FOOT, TAPE PRESSER (3/8 WIDE)                     |
| 10558                                                        | FOOT, TAPE PRESSER (WIDE)                         |
| 10565                                                        | DOG, FEED - PULL TAPE                             |
| 10017B                                                       | PLATE, THROAT (SHORT-STITCH-SPECIAL)              |
| 10017SR                                                      | PLATE, THROAT SPARK RESISTANT                     |
| 10017-U                                                      | PLATE, THROAT - FOR 26445 ROT. KNIFE, STD. STITCH |
| 10018SR                                                      | PLATE, THROAT SPARK RESISTANT                     |
| 10018-U                                                      | PLATE, THROAT - FOR 26445 ROT. KNIFE, LONG STITCH |
| 10230B                                                       | GAGE, TIMING (BELG)                               |
| 11003                                                        | CLIP, ANGLE - MODEL E, F                          |
| 11007                                                        | BRACKET, KNIFE (MODEL E,F)                        |



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|           |                                                  |
|-----------|--------------------------------------------------|
| 11008     | CLAMP, PIVOT - NEEDLE (MODEL E,F)                |
| 11025     | LEVER, NEEDLE                                    |
| 11101     | GUARD, NEEDLE BAR                                |
| 11104     | GUARD, NEEDLE BAR (BACK)                         |
| 11114     | DISC, TENSION                                    |
| 11203     | DOG, FEED                                        |
| 11210     | PLATE, THROAT                                    |
| 11212     | PLATE, THROAT - TAPE                             |
| 11213     | PLATE, THROAT (SPECIAL)                          |
| 11299     | COVER, HOUSING W/BUSHING (COMPLETE)              |
| 11396     | ASSY, PRESSER FOOT - TAPING                      |
| 11399     | ASSY, PR FOOT-TAPING&PLASTIC                     |
| 11400     | ASSY, PRESSER FOOT                               |
| 11485     | WELDMENT, MANIFOLD - INSIDE                      |
| 11600     | MAINSHAFT                                        |
| 11652     | LIFTER, PRESSER FOOT                             |
| 11654     | LEVER, LIFTER - PRESSER FOOT                     |
| 11801     | GUARD, PULLEY DRIVE                              |
| 11882     | GUARD, NEEDLE                                    |
| 11902     | ASSY, PULLEY - MOTOR TIMING                      |
| 11904     | PULLEY, MACHINE                                  |
| 11906     | ASSY, HINGE - MOTOR MOUNT                        |
| 11210B    | PLATE, THROAT (SPECIAL)                          |
| 11212B    | PLATE, THROAT (SPECIAL)                          |
| 11213B    | PLATE, THROAT (SPECIAL)                          |
| 11396-U   | PRESSER FOOT TREATED                             |
| 15053     | GAUGE, OIL 0-60 LB (STAINLESS STEEL HOUSING)     |
| 15056     | MANIFOLD, FILTER-OIL (ASSY)                      |
| 15115     | FOOT, PRESSURE JUTE (BELGIUM)                    |
| 15053-1   | GAUGE, OIL 0-60 LB (BOTTOM MOUNT)                |
| 15053-B   | GAUGE, OIL 0-60 LB (PLASTIC HOUSING)             |
| 31007     | LEVER, SLOTTED-FEED ROCKER                       |
| 31008     | CLAMP, ROD-FEED DOG CARRIER                      |
| 31014     | SEAL, LEVERS                                     |
| 31029     | KNIFE, MOVING (STD)                              |
| 31032     | KNIFE, STATIONARY (STD)                          |
| 31034     | LEVER, LIFTER PRESSER FOOT                       |
| 31037     | PLATE, THROAT ROT/KNIFE (STD) LO-SP              |
| 31208     | LOOPER, SINGLE THREAD                            |
| 40099     | ASSY, CLAMP NDLE BAR LEVER (MODEL F)             |
| 40307     | ARM, CAM FOLLOWER (MODEL F)                      |
| 40317     | ASSY, ARM&STUD CAM FOLLOWER (MOD F)              |
| 67275     | MOTOR, ECR/MODEL F 1/6HP 115/1/60 V              |
| 67276     | MOTOR, ECR/MODEL F 1/6HP 220/1/60 V              |
| 67342     | MOTOR, ECR 12VDC W/LABEL                         |
| 67753     | MOTOR, MODEL F 1/6 HP, 220 V (DI)                |
| 67753-110 | MOTOR, 1/6 HP FOR PORTABLE, DOUBLE INSULATED, CE |
| 4022      | CRANK                                            |
| 4294      | LEVER, SPRING                                    |