

SEW STAR[®] Mini 2000

INSTRUCTION MANUAL & PARTS LIST



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OPERATING INSTRUCTIONS

We strongly advise you be aware of the useful features of this machine before operation.

The MINIKET 2000 uses the overlock stitch system, it's also features a digital throughput meter to register the volume of work carried out by the machine.

Along with all these new features the MINIKET 2000 remains an easily movable machine that is easy to use and can be just as readily taken along to the job as same as Miniket 2 machine that has already proved so popular.

In order to get the best out of your machines you must observe the operating instructions contained herein :

Check over the machines and its accessories to see whether any damage has been sustained during transport and ascertain that all accessories are present.

STANDARD ACCESSORIES

1. Carry case
2. Handgrip with controller built in
3. Pair of scissors
4. Spare Needles
5. Oiler
6. Belt
7. Allen key 2.5 / 3mm / 4mm / 5mm
8. Yarn threader
9. Operating instruction & parts list booklet

OPTIONAL ACCESSORIES

- Foot Operator
- Extension handle
- Working Table & Stand
- Yarn thread
- Sewing thread
- Whipping Tape 16-26mm
- Strip whipping guide
- Locating block for bench mounting

PREPARING THE MACHINE

Refer to Figure 1.

Take the machine out of the carrying case, pull the yarn platform locking lever upwards and unfold the yarn platform downwards until it locks in the lowered position.

Take the handgrip out the accessories compartment in the carrying case and fit it onto the slotted receiving plate on the side of the machines housing next to the switch panel.

Insert the DIN plug into the socket in the switch panel.

Please ensure the correct orientation of the plug.

If using the handgrip extension handle, fit this to the receiving plate first and then attach the handgrip to the top end of the extension handle.

(Refer to Figure 2)

Note : The handgrip must lock into position

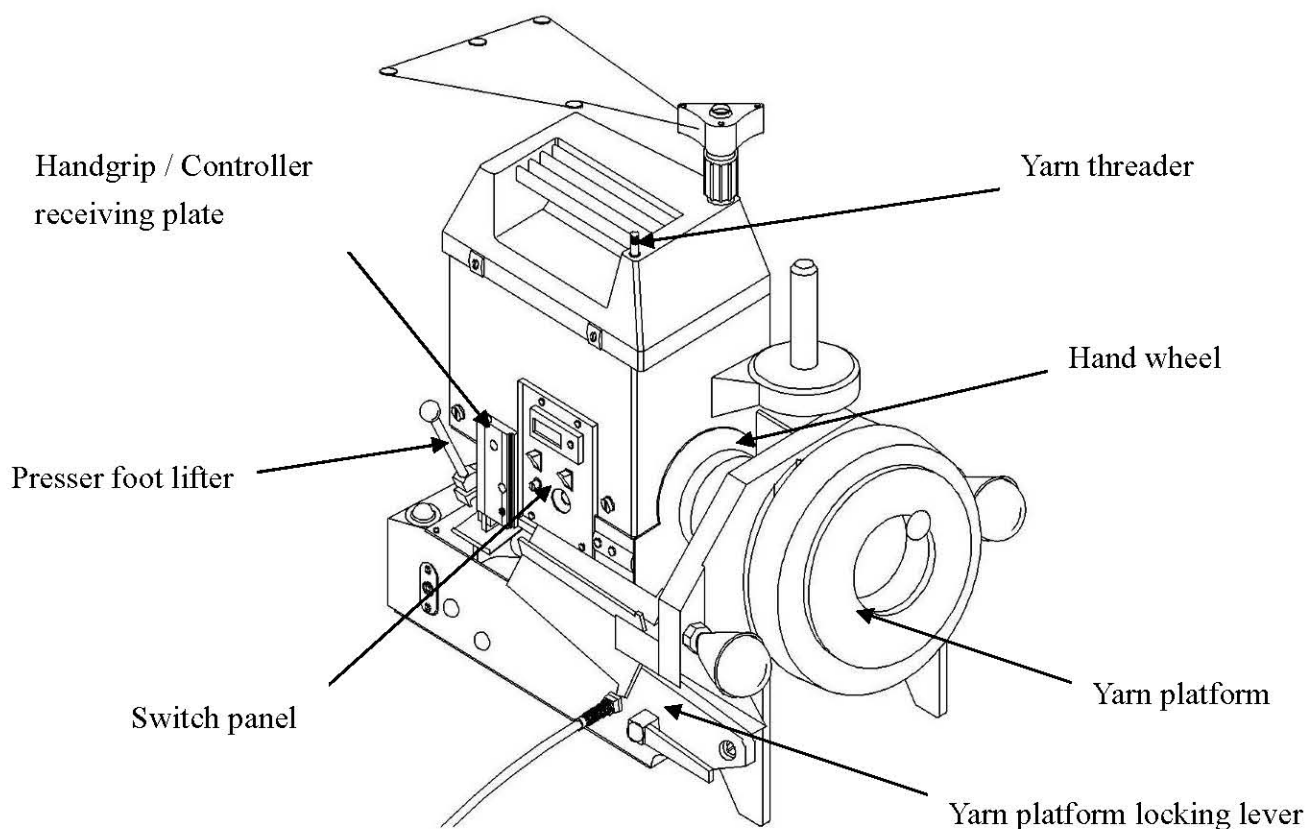
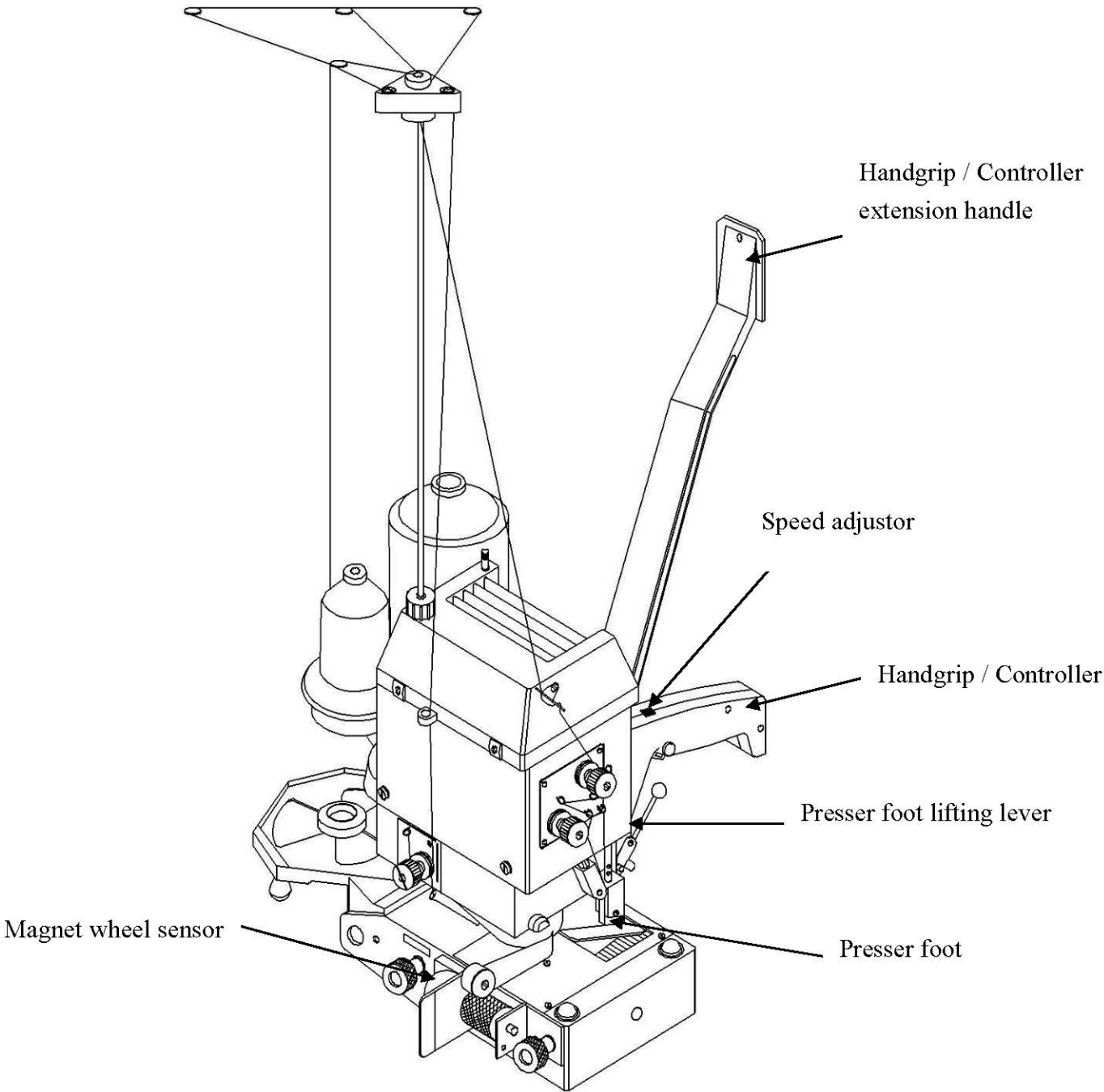
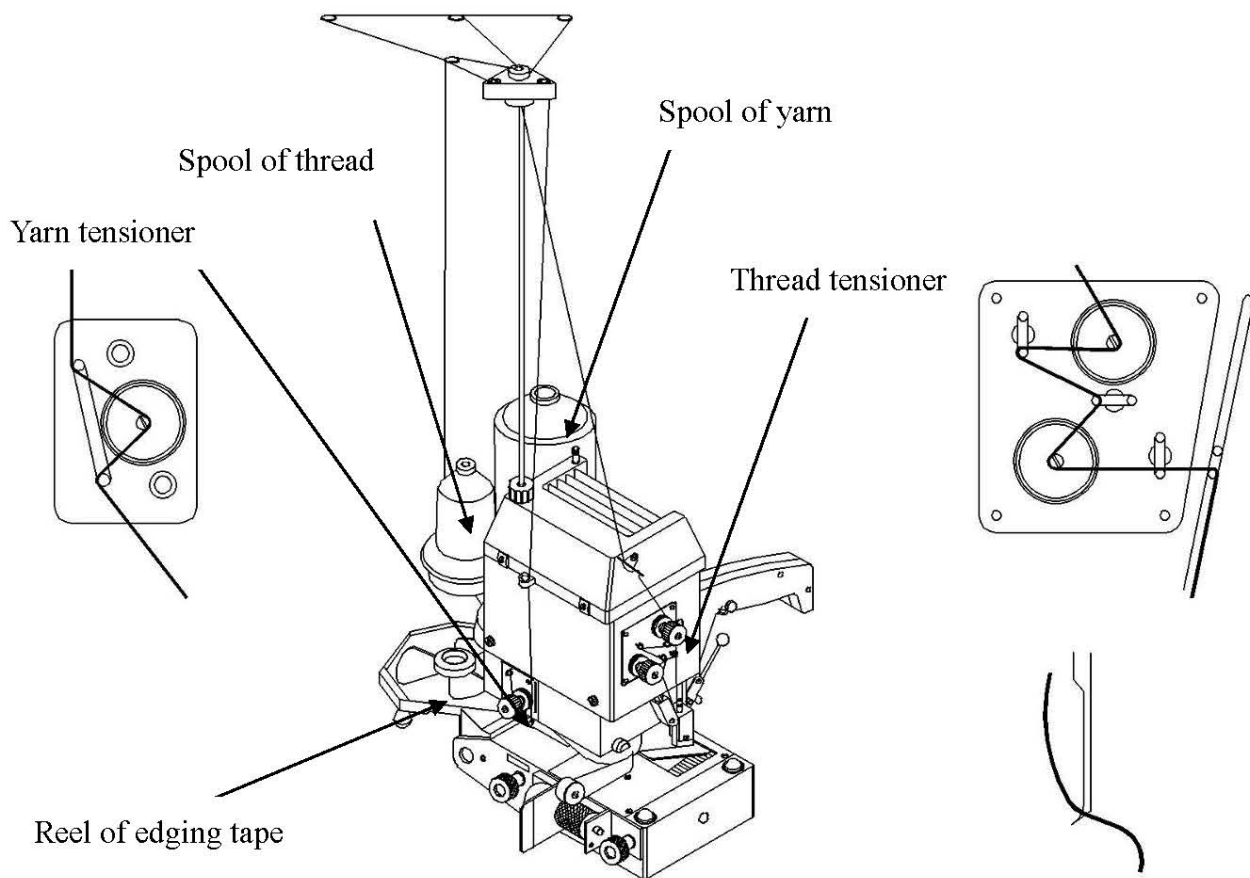


Figure 2.



THREADING THE THREAD

The thread path is as shown in Figure 3. Finish by threading the needle.



THREAD THE YARN

Refer to Figure 3 for guidance in threading until through the exit eye hooks of the tensioner.

Draw approx. 15'(40cm) of yarn through the tensioner.

In order to thread the yarn through the mechanism in the base of the machine, the handwheel must be turned in the direction of the arrow until,

a.) the looper finger with the forked end (the upper looper) is in the upper position.

See Figure 4.

b.) the eye hook on the front side of the housing is adjacent to the red arrowhead.

Insert the threader into the lower end of the threading tube where it emerges from the base of the machine on the same side as the handgrip/controller.

Push the threader up into the threading tube until it emerges from the upper end on the opposite side of the machine near the yarn tensioner.

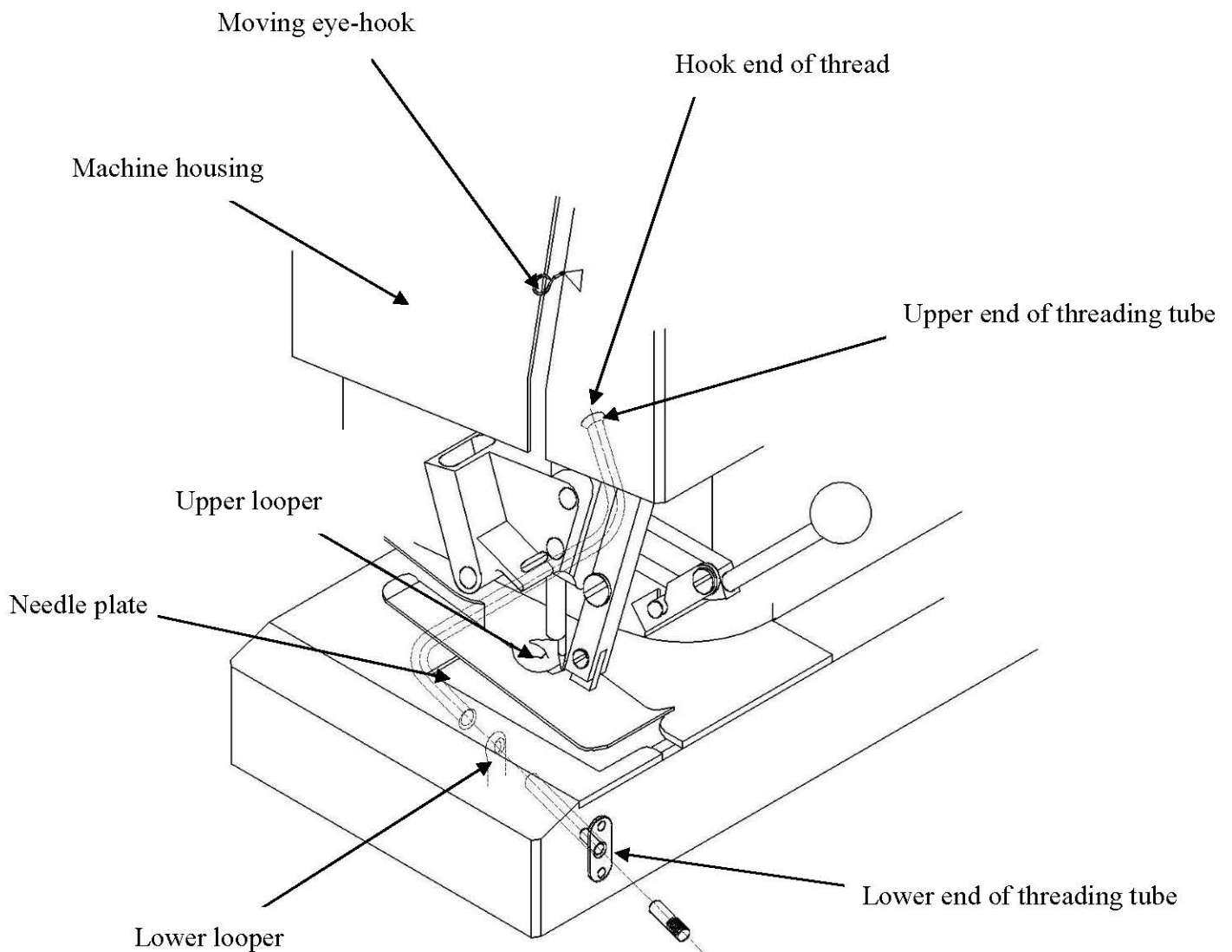
(If the threader does not freely pass through, especially, if the threader has been bent, it may be necessary to look through the opening in the stitching plate into the base of the machine and manipulate the hand wheel to ensure that the threader passes through the eye in the end of the lower looper.)

Hook the threader onto the yarn about 3"(8cm) from the free end of the yarn and pull the

threader back out of the base of the machine, rotation the thread in the process.

Warning : Never leave the threader inserted
In the base of the machine.
Always return it to the holding chamber
In the top of the machine housing

Figure 4.



THREADING THE EDGING TAPE

The edging tape passed first through the hedgehog-tensioner and then through the guide/layer. There are 2-way by which the tape can be fed through the guide/layer.

- a.) For thin carpet and carpet skirtings best results are usually obtained when the tape is fed through the sleeve of the guide and passes directly out from the mouth of the guide onto the edge of the carpet . (see Figure 5-1)
- b.) For thicker carpet the result is usually best when the tape is passed along outside the guide sleeve and threaded through the diagonal slot at the end of the tape guide from where it is layed onto the edge of the carpet form a higher position. (see Figure 5-2)

Back tension on the edging tape can be effected to different degrees depending on how the tape is threaded through the nails of the hedgehog-tensioner.

This will influence whether the tape is layed higher (with low back –tension) or lower (with high back-tension) on the edge of the carpet.

But also note that greater back-tension will result in a narrowing of the tape. This narrowing should not be allowed to exceed 2mm. If the tape tension is too high the carpet may slew on the stitching plate or become bunched up . The following pictures show suggested tensioning patterns.

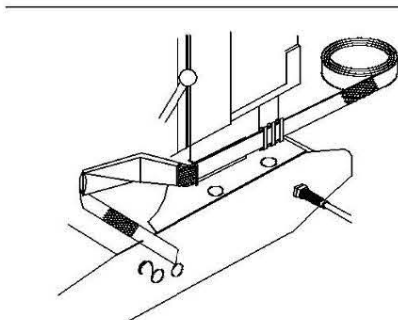


Figure 5-1

For low back-tension

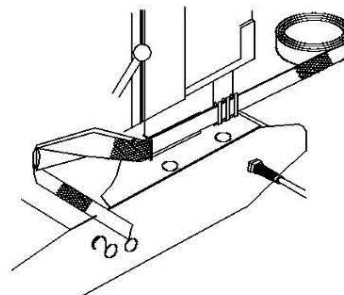


Figure 5-2

For intermediate back–tension



For high back-tension

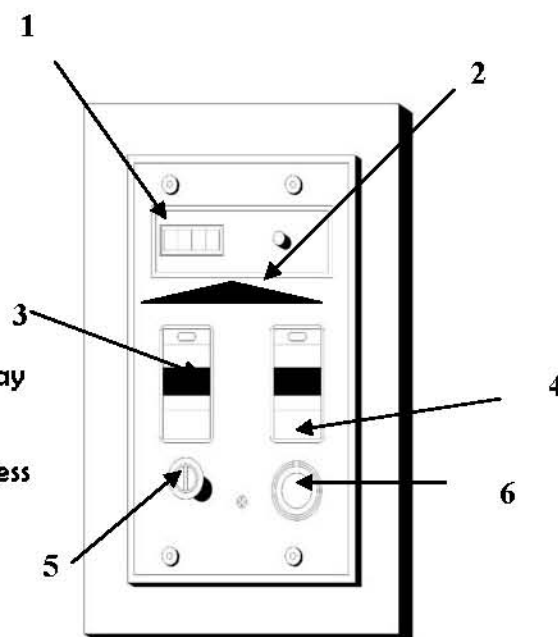


SWITCH PANEL

Refer to Figure 6

1. Throughput meter (operates only when the strip overlocking guide is in position)
2. Zeroing button for digital counting meter
3. Main switch
4. Switch for Mini camera & monitor
5. Fuse
6. Socket for handgrip controller or for foot controller

Figure 6.



PREPARING FOR WORK

Switch the main switch on. The light built into the switch will illuminate the switch. Take hold of the ends of the thread, yarn and edging tape together in one hand (the left hand may be more convenient) and apply a slight tension .

On the other hand, take hold of the handgrip controller, depress the trigger with your index finger and turn the speed adjustor with your thumb to position 2 or 3. The machine will begin to stitch a tailing. After about 5 stitches you can release the trigger(stop the machine) and let go your hold of the thread, yarn ,and edging tape.

PROCEEDING TO OVERLOCK THE CARPET

With the pressure foot in the elevated position, take the carpet to be overlocked and insert the edge of the carpet under the pressure foot so that the back edge of the carpet bears against the end of the tape guide.

By using of the pressure foot lifting lever, lower the pressure foot onto the carpet and set the machine in motion.

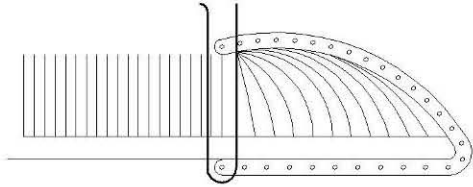
Assist the transport of the carpet until the start of the stitching emerges behind the pressure foot.

CHECKING OF THE STITCH QUALITY

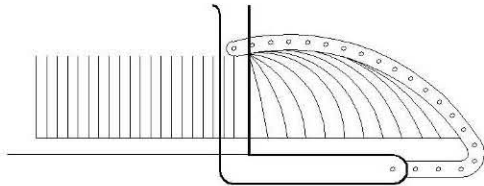
Refer to Figure 7.

When necessary, adjust the yarn tensioner and thread tensioner by turning the respective knobs until the stitch quality is to your satisfaction.

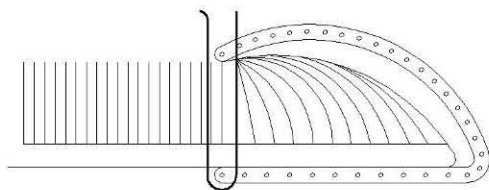
CORRECT STITCHING



YARN TOO TIGHT OR THREAD TOO LOOSE



YARN TOO LOOSE OR THREAD TOO TIGHT

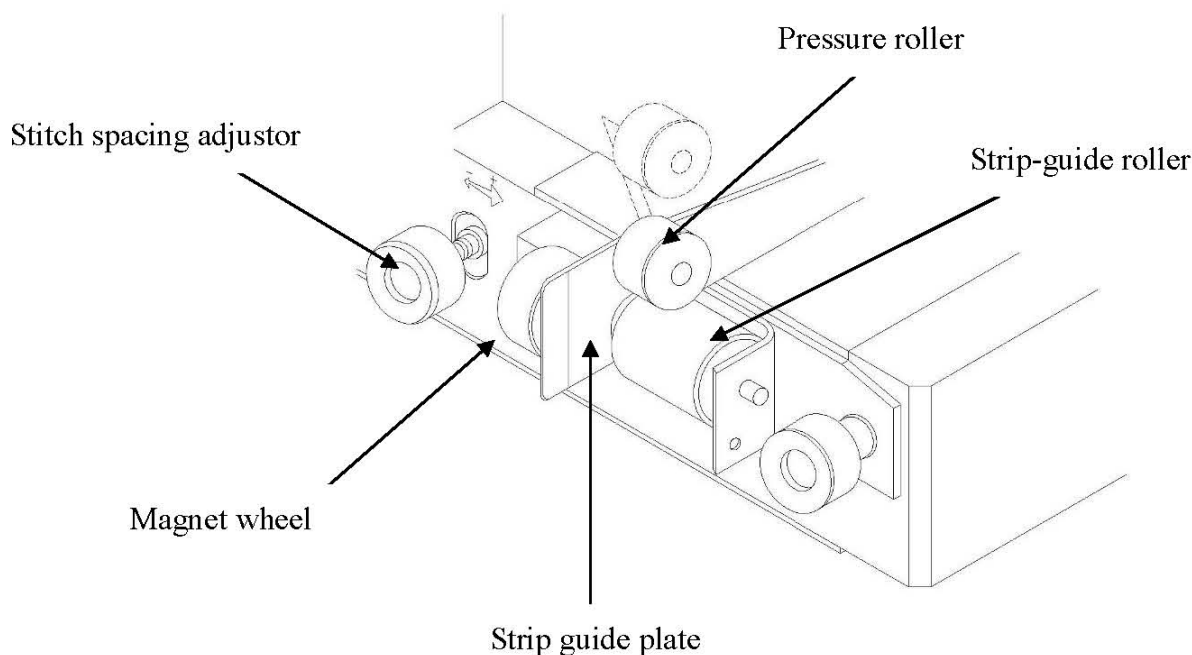


STITCH SPACING

Refer to Figure 8.

Depending on the tape of backing on the carpet, the stitch spacing may need adjustment. This is done by means of the knob on the LH side of the base of the machine. Turning the knob clockwise will increase the spacing between the stitches and turning the knob anticlockwise will decrease the spacing.

Figure 8.



OVERLOCKING OF CARPET STRIPS

Refer to Figure 8.

The digital counting meter in combination with the strip overlocking guide measures the length of strip overlocked. The guide roller, to which the counter magnet wheel is attached, is slightly angled to keep the edge of the carpet strip lightly bearing against the guide plate.

When the carpet strip is in position, lower the pressure roller onto the carpet surface to ensure positive traction on the guide/measuring roller.

The Measure: Each revolution of the guide/measuring roller represents one unit on the counter and 10cm of carpet throughput.

Ex. If meter count 245 ; throughput= 1 unit *10cm = 2450cm or 24.5m (1m~ 3.28 feet or 1.1 yards)

CHANGING THE SEWING NEEDLE

Turn the hand wheel on the rear side of the machine in the direction of the arrow until the needle is at its lowest position.

Loosen the two Allen screws in the bottom end of the needle driving shaft. Do not remove the screw completely.

Take hold of the needle and rotate it to loosen it in the socket of the driving shaft. Turn the hand wheel a quarter turn further, remove the old needle and insert the new one into the socket as fast it will go.

Tighten the lower locking screw lightly. Turn the hand wheel a quarter turn back, tighten the upper locking screw fully and then tighten the lower screw again if necessary.

RECOMMENDATIONS

Thick carpets 2.5cm (ie.1”) thick or greater should only be overlapped with a speed setting of 4.

The sewing needle should be replaced after 5,000 running meters of overlapping (approx. 16,500 feet)

The machine should be generally cleaned once per week.

Have the machine fully checked over once per year.

PROBLEM SOLVING

PROBLEM	CAUSE	SOLUTION
Missing stitcher	Bad carpet quality	Change needle
Machine jammed	Readjust stitch spacing adjustor	
Speed adjustor not working	Phase regulator defective	Renew electronic control board
Machine will only run on setting 6	Potentionmeter in handgrip defective	Renew potentiometer
Carpet not being transported	Stitch spacing adjusted too closely	Helper looper caught in yarn. Set stitch spacing a little coarser
Poor stitch profile	Needle worn yarn	Change needle
	Yarn/ Thread tension incorrect	Readjust yarn/thread tension
Throughput meter not working	Magnet on roller not aligning with reed contact in base of machine	Adjust magnet alignment
	Break in wiring	
	Battery exhausted	Check wiring

NOTE

To prolong the life of your MINIKET 2000, the machine should be lubricated at intervals using the spray lubricant provided.

RECOMMENDATIONS

Refer to illustration 9.

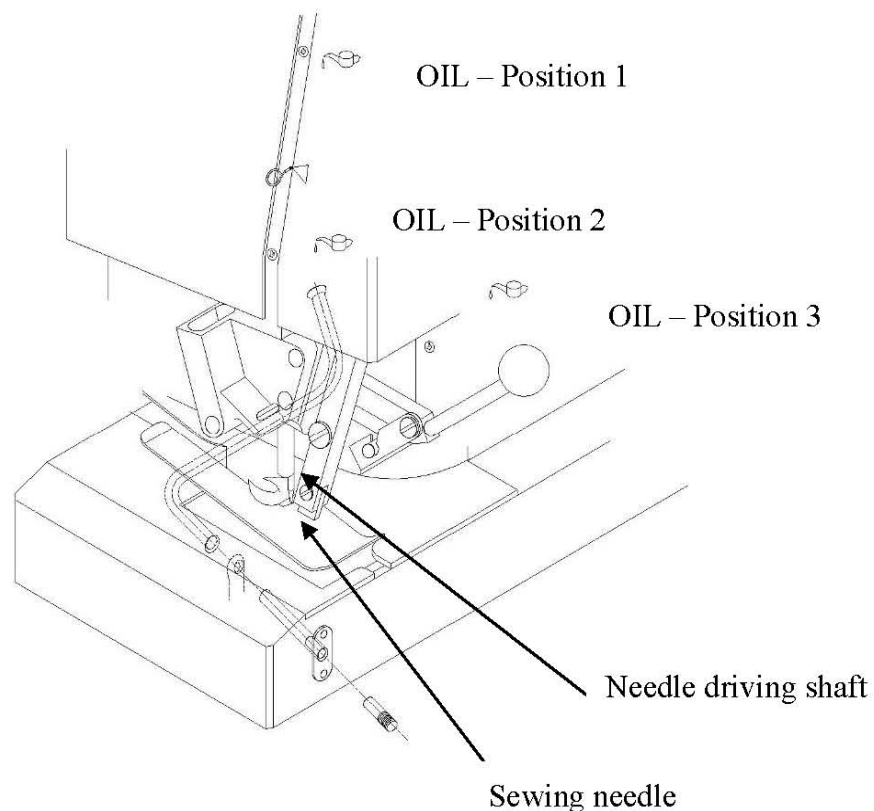
Oil-Position 1 : Turn the hand wheel of the machine in the direction of the arrow until the needle is at its lowest position. Spray the lubricant directly through the lubrication hole.

Oil-Position 2 : Turn the hand wheel, as above, until the needle is at its highest position. Spray the lubricant through the lubrication hole indicated in the illustration.

Oil-Position 3 : This lubrication hole is located in the handgrip receiving plate. Remove the handgrip and spray the lubricant into the small hole in the plate.

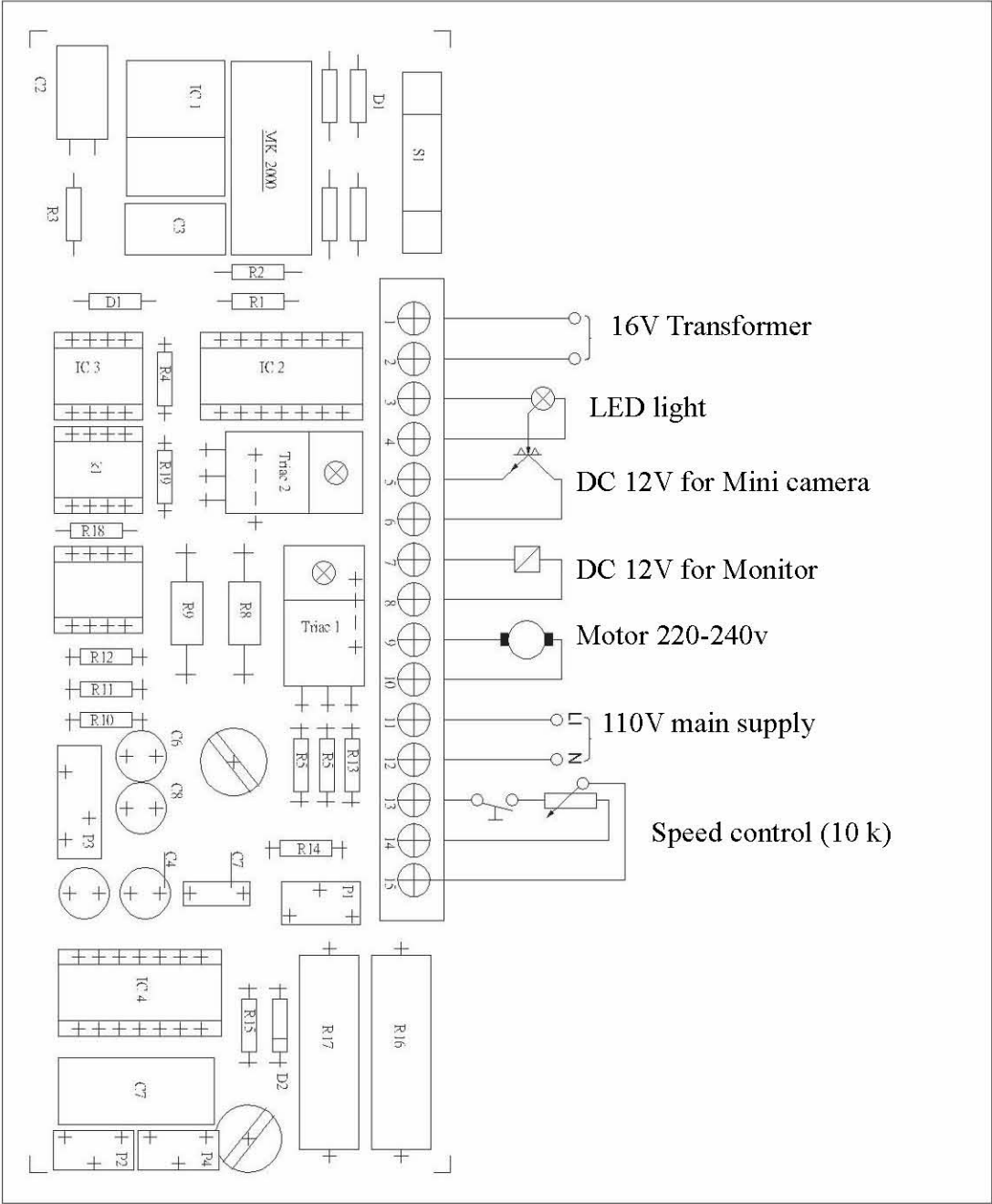
In each case the lubricant should be applied with no more than a 2 second squirt. Lubrication should be repeated after each 6 to 8 hours of running time.

Figure 9.



ELECTRONIC CIRCUIT BOARD

Refer to Figure 10



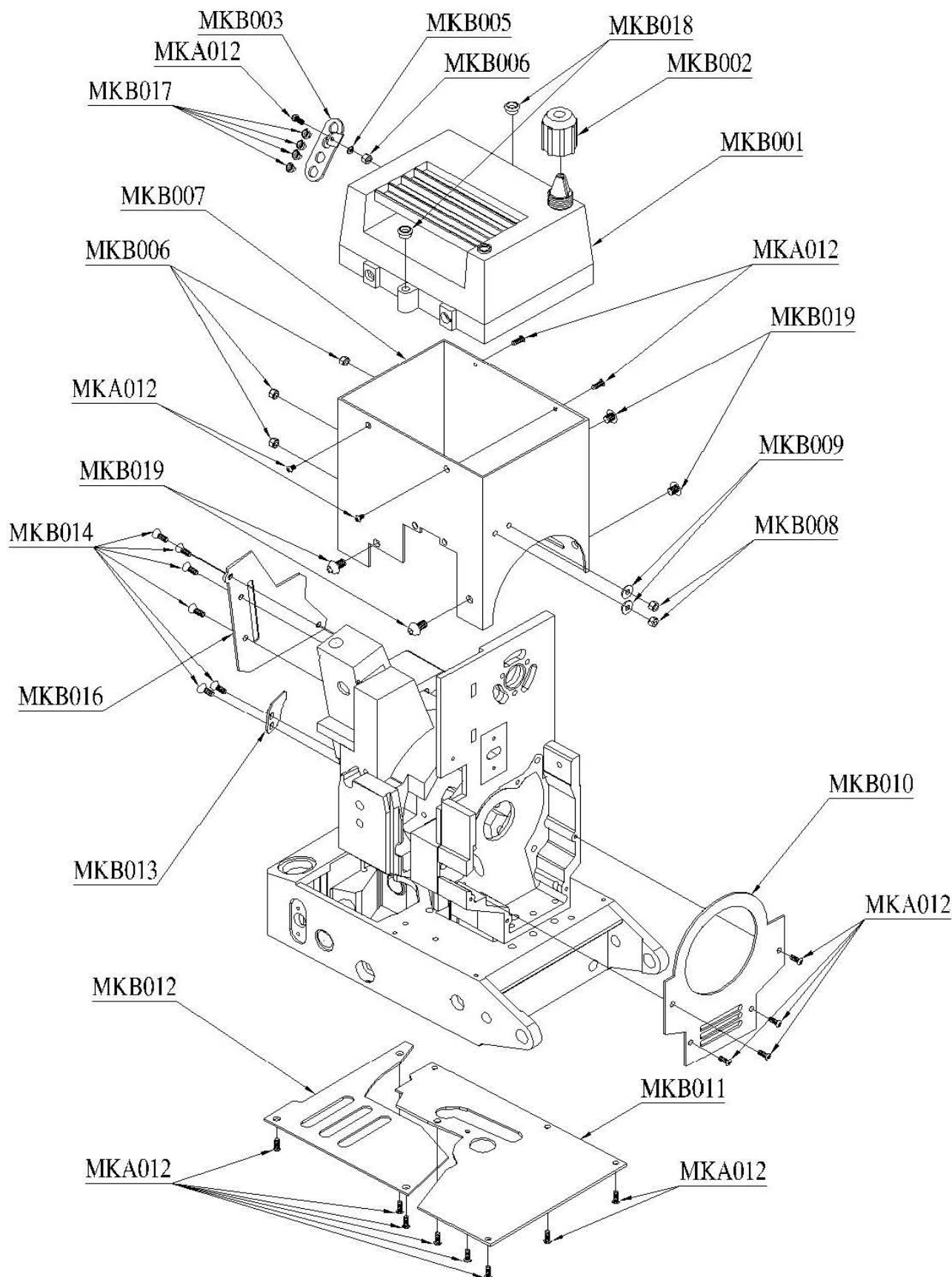
I – Mechanical Casting



I – Mechanical Casting

No.	Ref. No.	Description
1	MKA001	Bottom body casting
2	MKA002	Yarn plate complete
3	MKA003	Upper body casting A
4	MKA004	Upper body casting B
5	MKA005	Ball transfer
6	MKA006	Chair wheel
7	MKA007	M8x40 socket set screw
8	MKA008	Adjusting belt plate
9	MKA009	M4x5.5-8.4 set screw
10	MKA010	Yarn wall tube- short
11	MKA011	6.5x10.7x2t spring disc
12	MKA012	M4x8-10,9 Oval flat head screw
13	MKA013	Angle blasket -long
14	MKA014	M5*10.5 long blasket screw
15	MKA015	5.8*8.8*1.5t washer
16	MKA016	Handle axle for yarn plate
17	MKA017	Adapter sleeve
18	MKA018	Leg spring for reel
19	MKA019	Knurled head nut
20	MKA020	M4*16 screw
21	MKA021	Handle axle block
22	MKA022	M6 stove allen set screw
23	MKA023	Wheel housing connecting pin
24	MKA025	Wheel
25	MKA025-2	Wheel bushing
26	MKA035	Plastic round cover
27	MKA036	M6 set screw
28	MKA039	M8*10 yarn plate screw
29	MKA041	5*30 connecting solid tube
30	MKA042	6kt 8x35 wood screw
31	MKA043	Yarn take-up
32	MKA044	Foam
33	MKA045	RTW-15 C ring
34	MKA046	M6*9x22 wheel screw

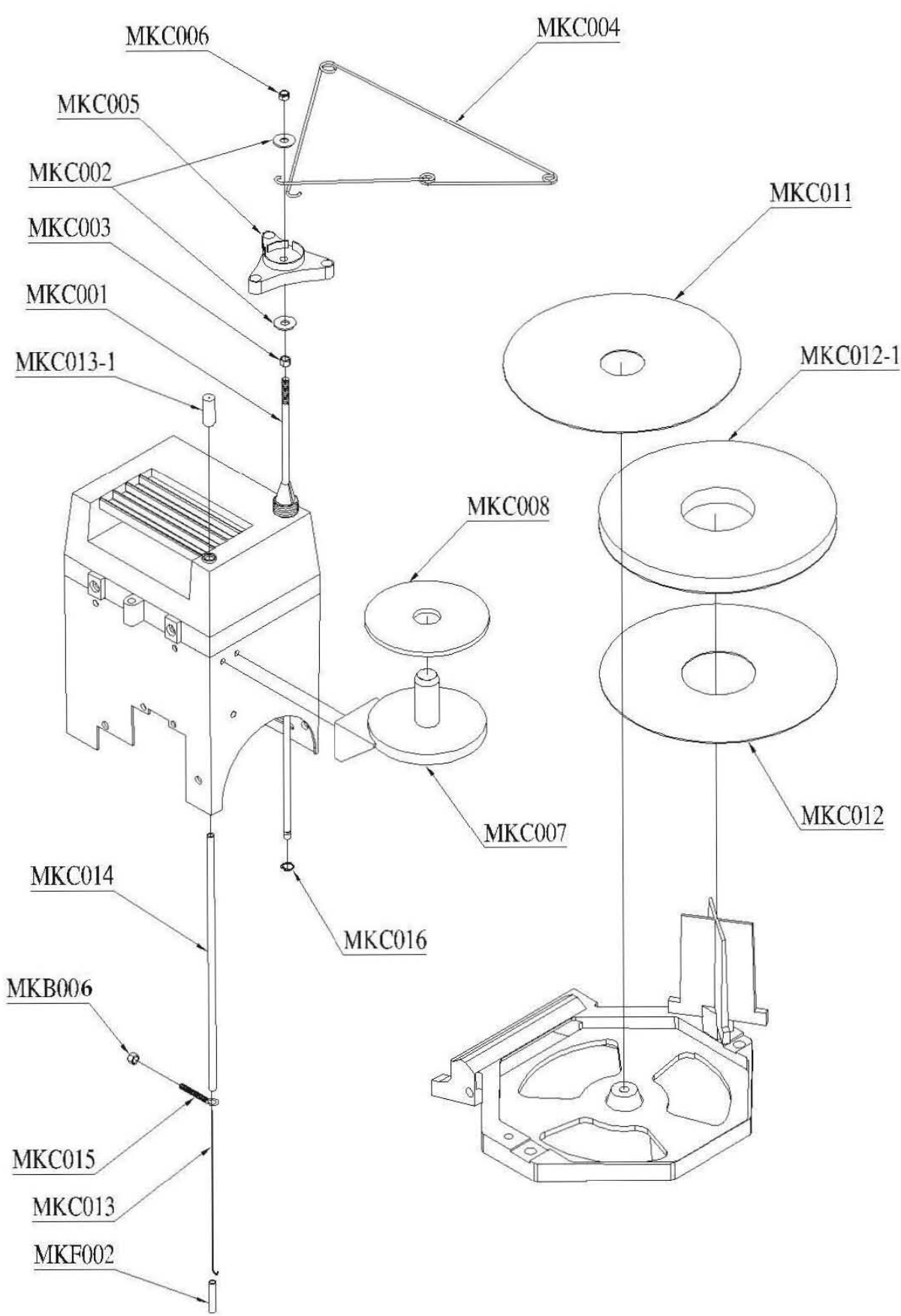
II – Cover & Housing



II - Cover & Housing

No.	Ref. No.	Description
1	MKA012	M4x8-10,9 Oval flat head screw
2	MKB001	Hood
3	MKB002	Yarn guide rod plastic screw
4	MKB003	Clamping device
5	MKB005	4.8*7*1t washer
6	MKB006	M4*3t nut
7	MKB007	Cover complete
8	MKB008	M4*5t nut
9	MKB009	Yarn take-up washer
10	MKB010	Slide cover -B
11	MKB011	Cover for bottom casting A
12	MKB012	Cover for bottom casting B
13	MKB013	Protection thread plate
14	MKB014	M4x8 oval head screw
15	MKB016	Needle bar plastic cover
16	MKB017	Thread eyelet 3*5.1*7
17	MKB018	Thread eyelet 4.8*8.7*12
18	MKB019	Hood screw

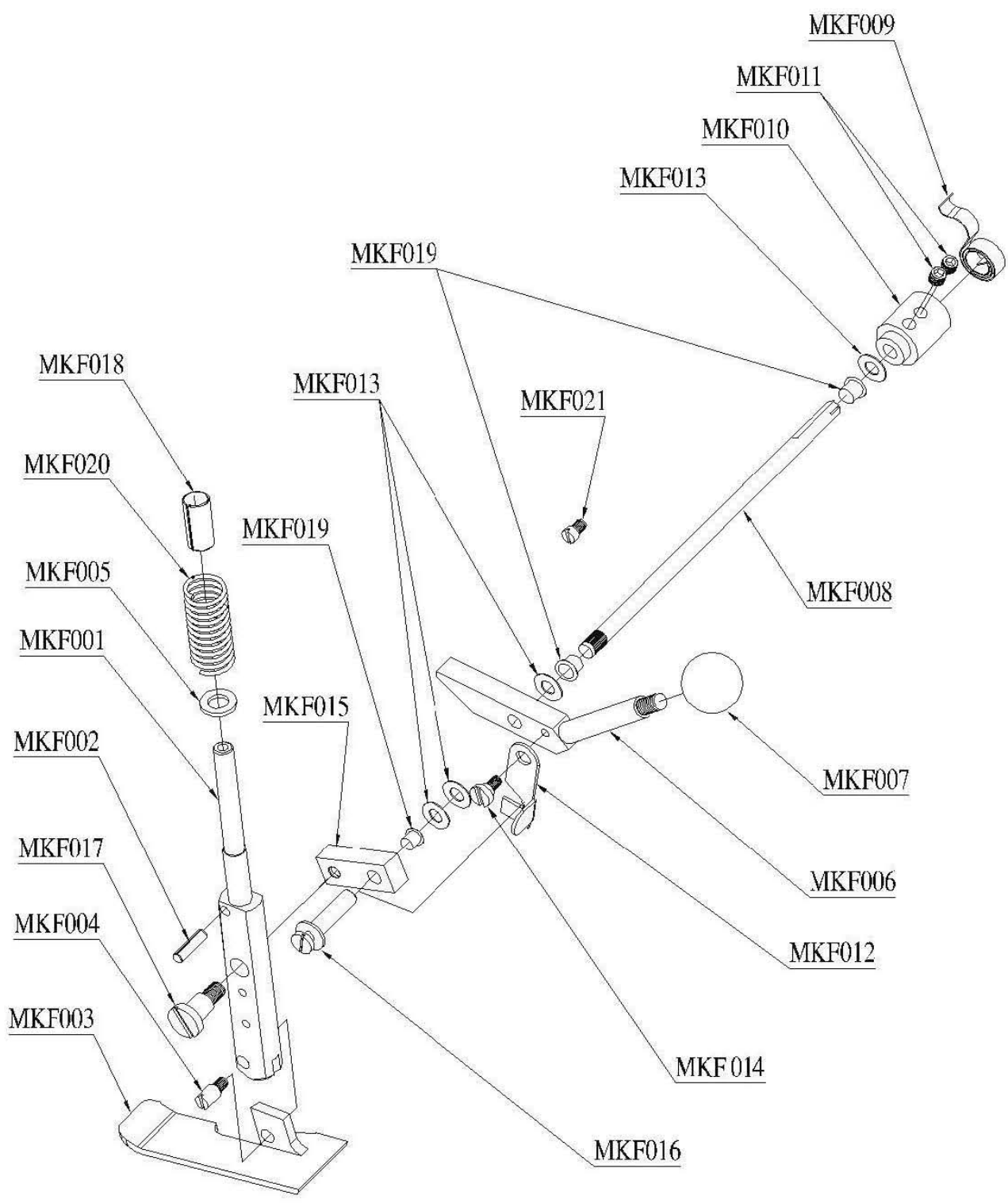
III – Thread guide & Take-up



III – Thread guide & Take-up

No.	Ref. No.	Description
1	MKB006	M4*3t nut
2	MKC001	Support post for yarn guide 6*453
3	MKC002	6.5*18*1.2t Yarn guide vertical rod washer
4	MKC003	M6*5t Yarn guide vertical rod nut
5	MKC004	Wire frame for yarn guide
6	MKC005	Yarn guide horizontal arms holder
7	MKC006	M6*5t Hexag. nut
8	MKC007	Foam mat for yarn take up
9	MKC008	Foam mat for yarn plate
10	MKC011	Yarn rest
11	MKC012	Yarn rest plate
12	MKC012-1	Foam of yarn rest plate
13	MKC013	Yarn threader
14	MKC013-1	Yarn threader head
15	MKC014	PU tube holder for yarn threader
16	MKC015	Eye bolt holder for PU tube
17	MKC016	ETW-5 c ring
18	MKF002	Tube holder pin

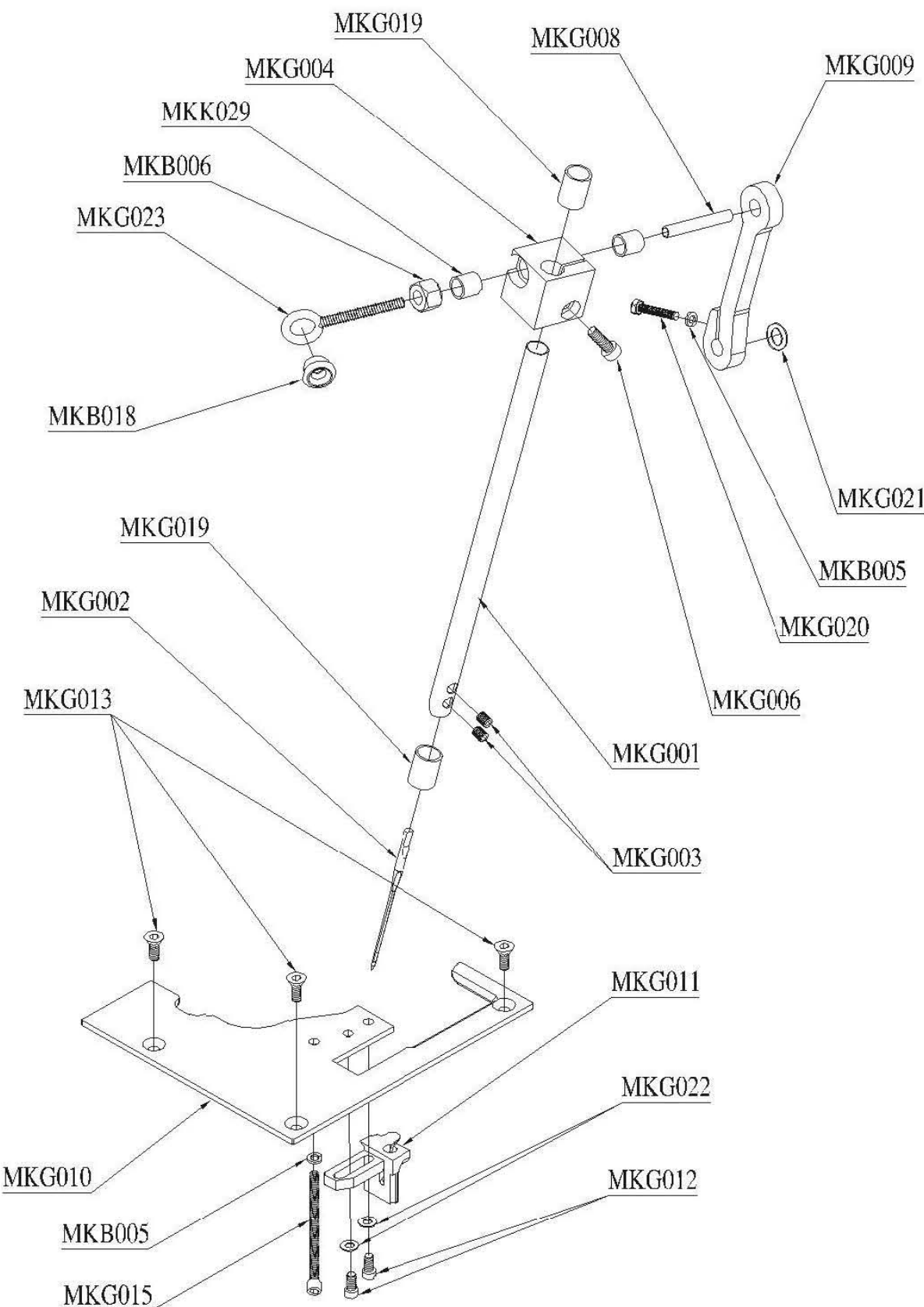
IV – Pressure Foot Mechanism



IV - Pressure Foot Mechanism

No.	Ref. No.	Description
1	MKF001	Pressure rod
2	MKF002	SPP4*15 pin
3	MKF003	Pressure foot
4	MKF004	M4*5.5 set screw
5	MKF005	7.4*13*1.5t washer
6	MKF006	Pressure foot gear
7	MKF007	Ball head
8	MKF008	Gear rod
9	MKF009	Spiral spring
10	MKF010	AL bushing
11	MKF011	M6*6 screw
12	MKF012	Presser foot raster
13	MKF013	6.4*11*0.5t washer
14	MKF014	M4*5.5 raster screw
15	MKF015	Pin holder
16	MKF016	Pin
17	MKF017	M6x8.5 screw
18	MKF018	Bushing
19	MKF019	6*8*12 pin bushing
20	MKF020	Presser rod spring
21	MKF021	M5*6*10 screw

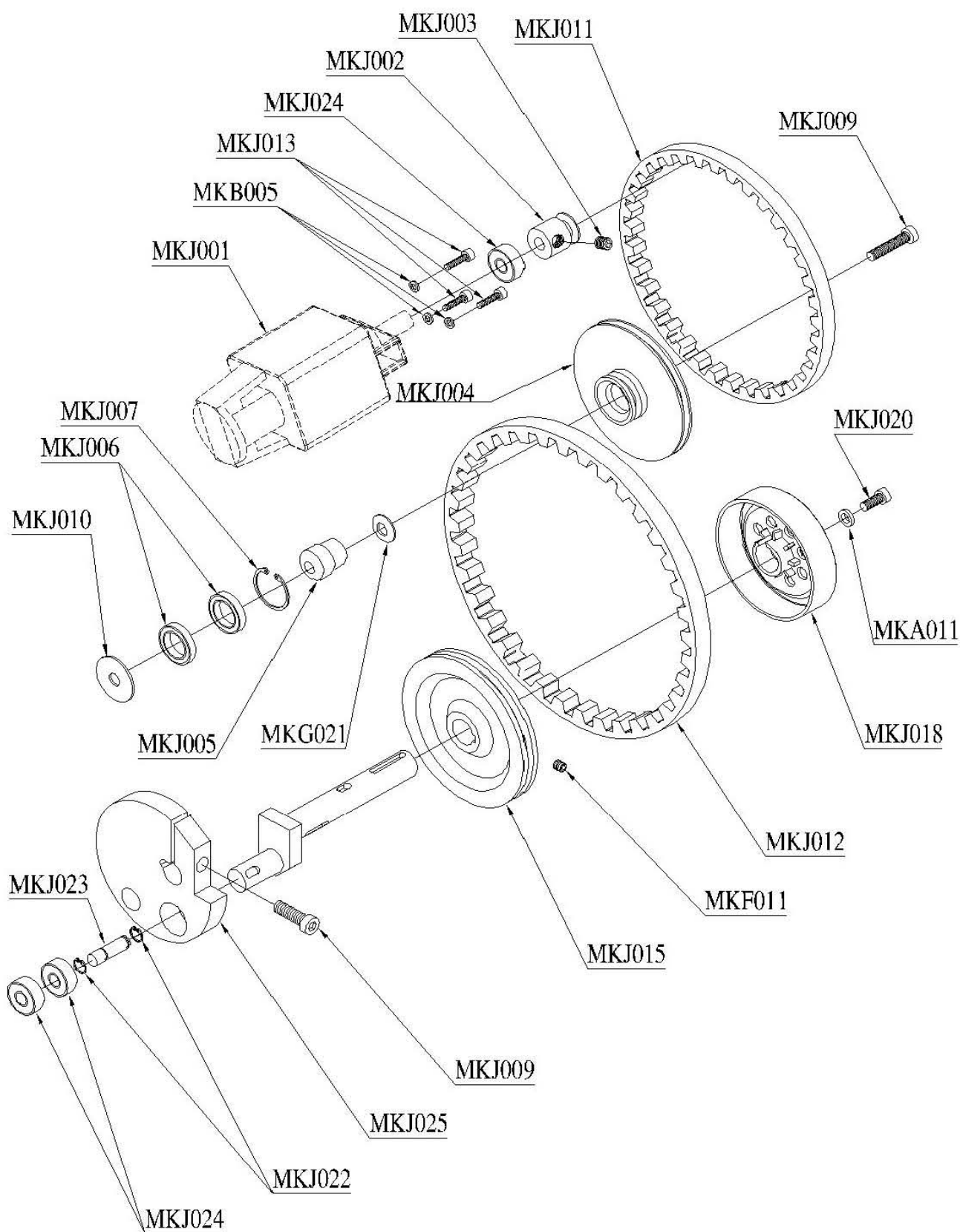
V –Needle Bar & Plate Mechanism



V – Needle Bar & Plate Mechanism

No.	Ref. No.	Description
1	MKB005	4.3*7*1t washer
2	MKB006	M4*3t nut
3	MKB018	Thread eyelet
4	MKG001	Needle bar
5	MKG002	Needle
6	MKG003	M5*4 needle screw
7	MKG004	AL Needle bar crank block
8	MKG006	M5*15.8 screw
9	MKG008	8.01*35.5 connecting gear
10	MKG009	AL needle bar crank rod
11	MKG010	Needle plate
12	MKG011	Needle plate tongue
13	MKG012	M4*8 needle plate tongue screw
14	MKG013	M4*8 needle plate screw
15	MKG015	M4*60 screw
16	MKG019	10*12*16 needle bar bushing
17	MKG020	M4*20 crank rod screw
18	MKG021	8.2*14*0.1t washer
19	MKG022	4*8*0.5t washer
20	MKG023	Eyelet bolt
21	MKG029	Bushing for crank block

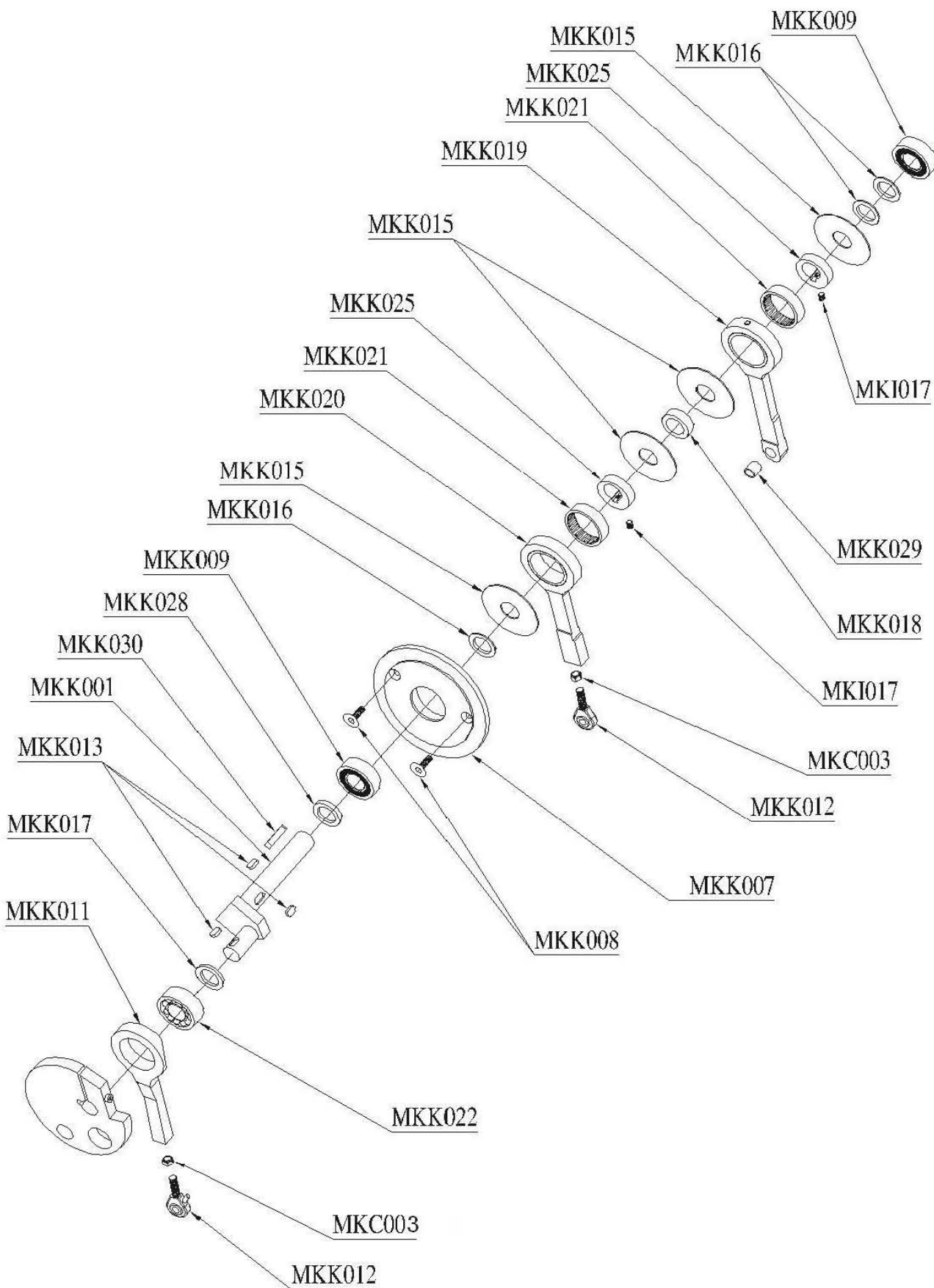
VI – Driving Mechanism



VI – Driving Mechanism

No.	Ref. No.	Description
1	MKA011	6.5*10.7*2t washer
2	MKB005	4.3*7*1t washer
3	MKF011	M6*6 set screw
4	MKG021	8.2*14*0.1t washer
5	MKJ001	Motor 220 –240V
6	MKJ002	Motor pulley
7	MKJ003	M8x8.2 socket screw
8	MKJ004	Upper crank pulley
9	MKJ005	2mm Eccentric wheel
10	MKJ006	Ball bearing for lower hand wheel –6803RS
11	MKJ007	RTW-26 C ring
12	MKJ009	M8x35-0.5 socket screw
13	MKJ010	8.5*30*1.5t washer
14	MKJ011-335	Lower timing belt
15	MKJ012-352	Upper timing belt
16	MKJ013	M4x15.8 socket screw for motor
17	MKJ015	Lower crank pulley
18	MKJ018	Hand wheel cover
19	MKJ020	M6x14 Hand wheel screw
20	MKJ022	STW-8 C ring
21	MKJ023	Connecting link
22	MKJ024	Ball bearing 608RS
23	MKJ025	Crank wheel

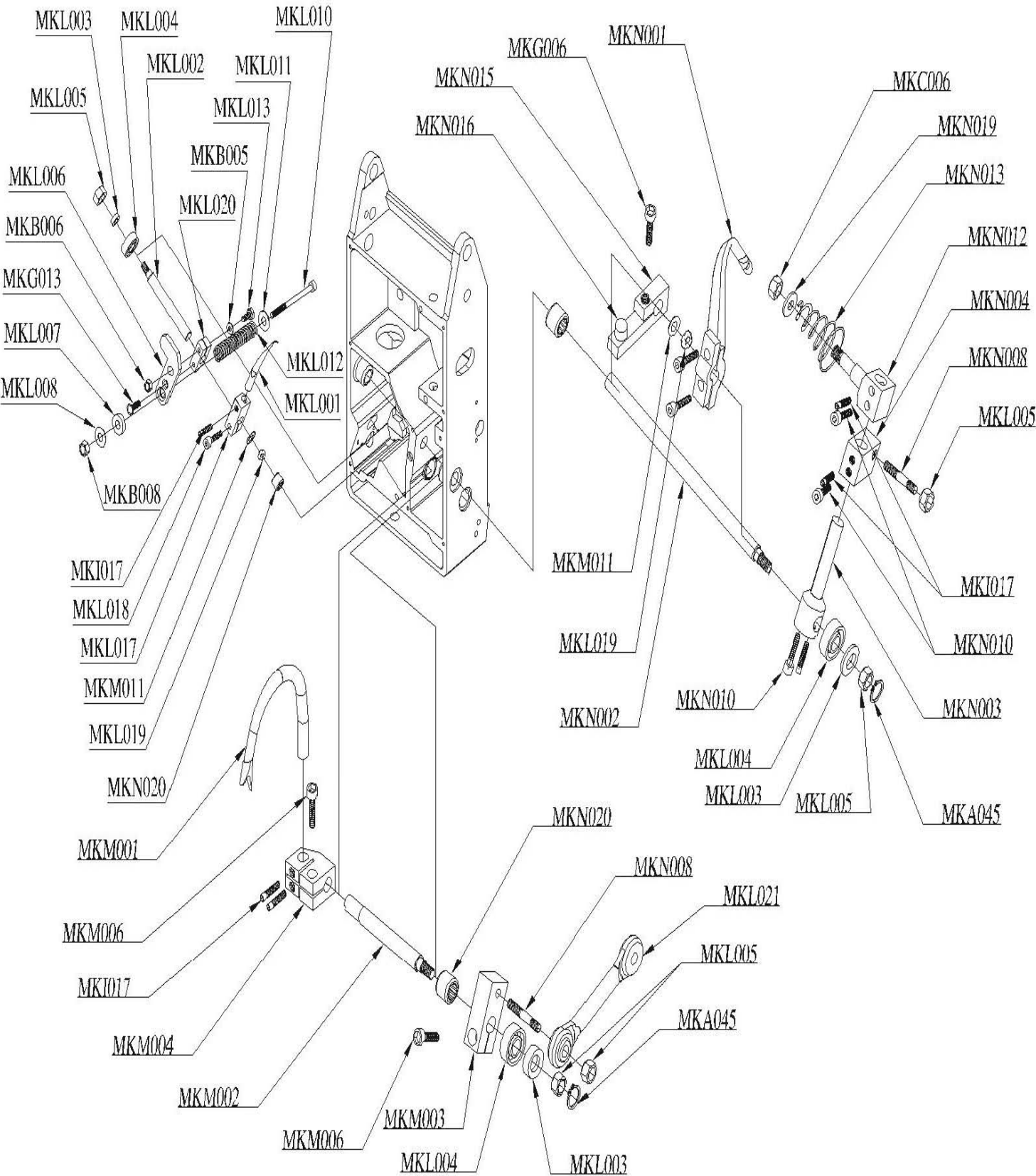
VII – Eccentric Crank Mechanism



VII – Eccentric Crank Mechanism

No.	Ref. No.	Description
1	MKC003	M6*5t nut
2	MKI017	M5*6 set screw
3	MKK001	Arm shaft
4	MKK007	Feeder wheel for shaft
5	MKK008	M5*14 flat screw
6	MKK009	Ball bearing 6203RSR
7	MKK011	Eccentric rod for looper
8	MKK012	Rod end bearing
9	MKK013	Short pin for shaft
10	MKK015	17x50-1t crank washer
11	MKK016	18*25*0.3t washer
12	MKK017	15*20*1t washer
13	MKK018	17x25-8t collar
14	MKK019	Eccentric rod for stitch width
15	MKK020	Eccentric rod for feed dog
16	MKK021	Bearing for eccentric rod HK3012
17	MKK022	Eccentric rod bearing 2202
18	MKK025	Thrust collar 3.5mm
19	MKK028	17x25-2.5t washer
20	MKK029	8*10*10 eccentric rod bushing
21	MKK030	Long pin for shaft

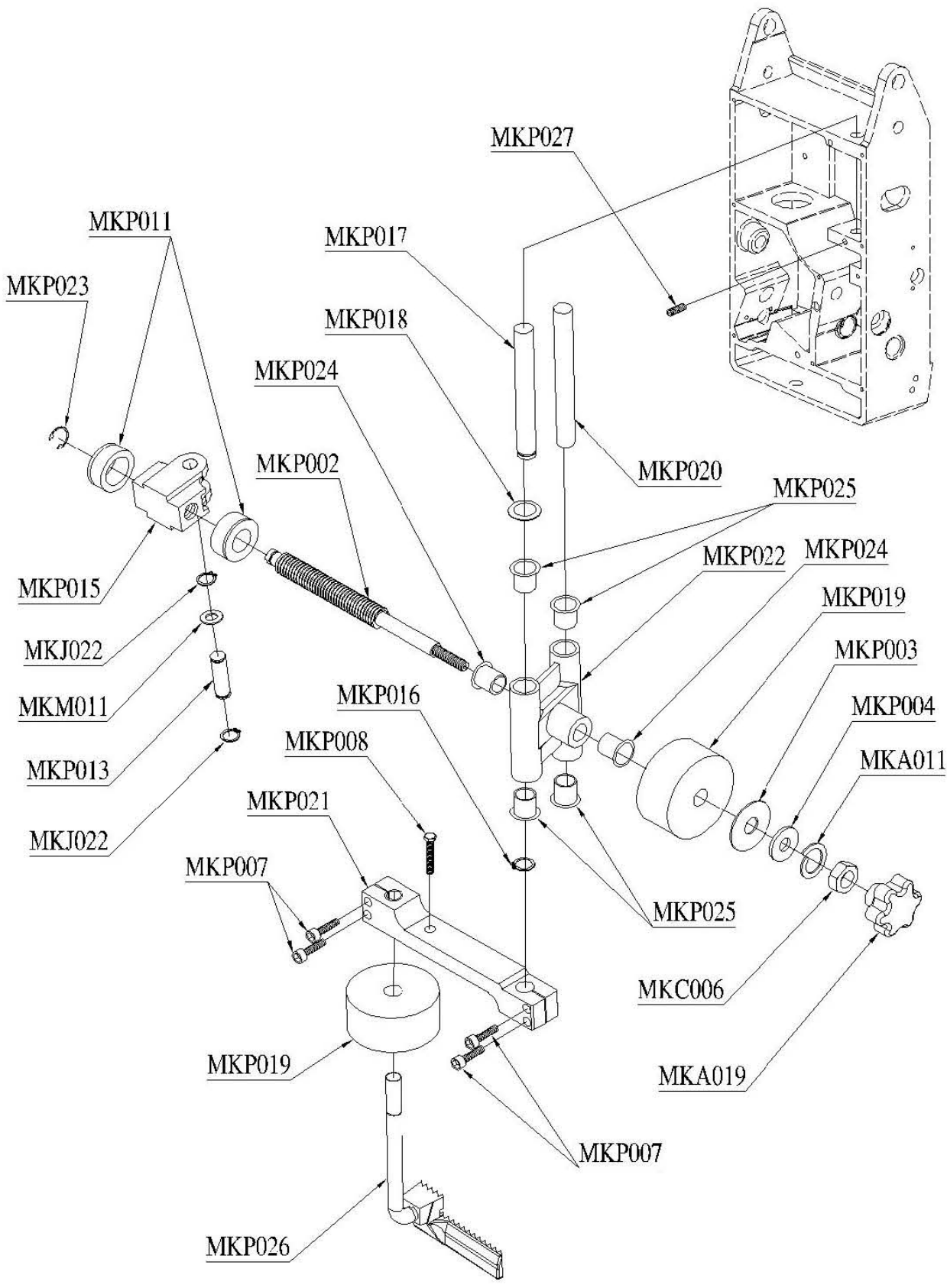
VIII – Looper Mechanism



VIII – Looper Mechanism

No.	Ref. No.	Description	No.	Ref. No.	Description
1	MKA045	RTW-15 C ring	23	MKL019	External tooth lock- ww-8
2	MKB005	4.3*7*1t washer	24	MKL020	Clam for auxiliary looper shaft
3	MKB006	M4*3t insert lock nut	25	MKL021	Self lubricating rod end bearing
4	MKB008	M4*5t insert lock nut	26	MKM001	Upper looper
5	MKC006	M6*5t insert lock nut	27	MKM002	Upper gripper clamp shaft
6	MKG006	M5*15.8 screw	28	MKM003	Clamp complete
7	MKG013	M4*8 phillips flat screw	29	MKM004	Upper looper clamp
8	MKI017	M5*6 socket screw	30	MKM006	M6x16 cyclinder head screw
9	MKL001	Auxiliary looper	31	MKM011	8.5*13.0.8t washer
10	MKL002	Short gripper shaft	32	MKN001	Lower looper
11	MKL003	5.1*7*2t Head rod washer	33	MKN002	Lower looper shaft
12	MKL004	Bearing	34	MKN003	Headless rod connecting link
13	MKL005	M5 insert lock nut	35	MKN004	Mounting block
14	MKL006	L sheet iron	36	MKN008	Dowel set screw
15	MKL007	5*15 washer	37	MKN010	M5x8 socket cap screw
16	MKL008	4.4*12.1.5t washer	38	MKN012	Countersunk linking block
17	MKL010	M4x60 socket screw	39	MKN013	Spring
18	MKL011	4.3*8*0.8t washer	40	MKN015	Operating lever complete
19	MKL012	L sheet iron spring	41	MKN016	PU rubber
20	MKL013	M4*20 hexagon screw	42	MKN019	6*8*2t washer
21	MKL017	Auxiliary looper clamp	43	MKN020	Shaft bearing
22	MKL018	M4*16 socket cap screw			

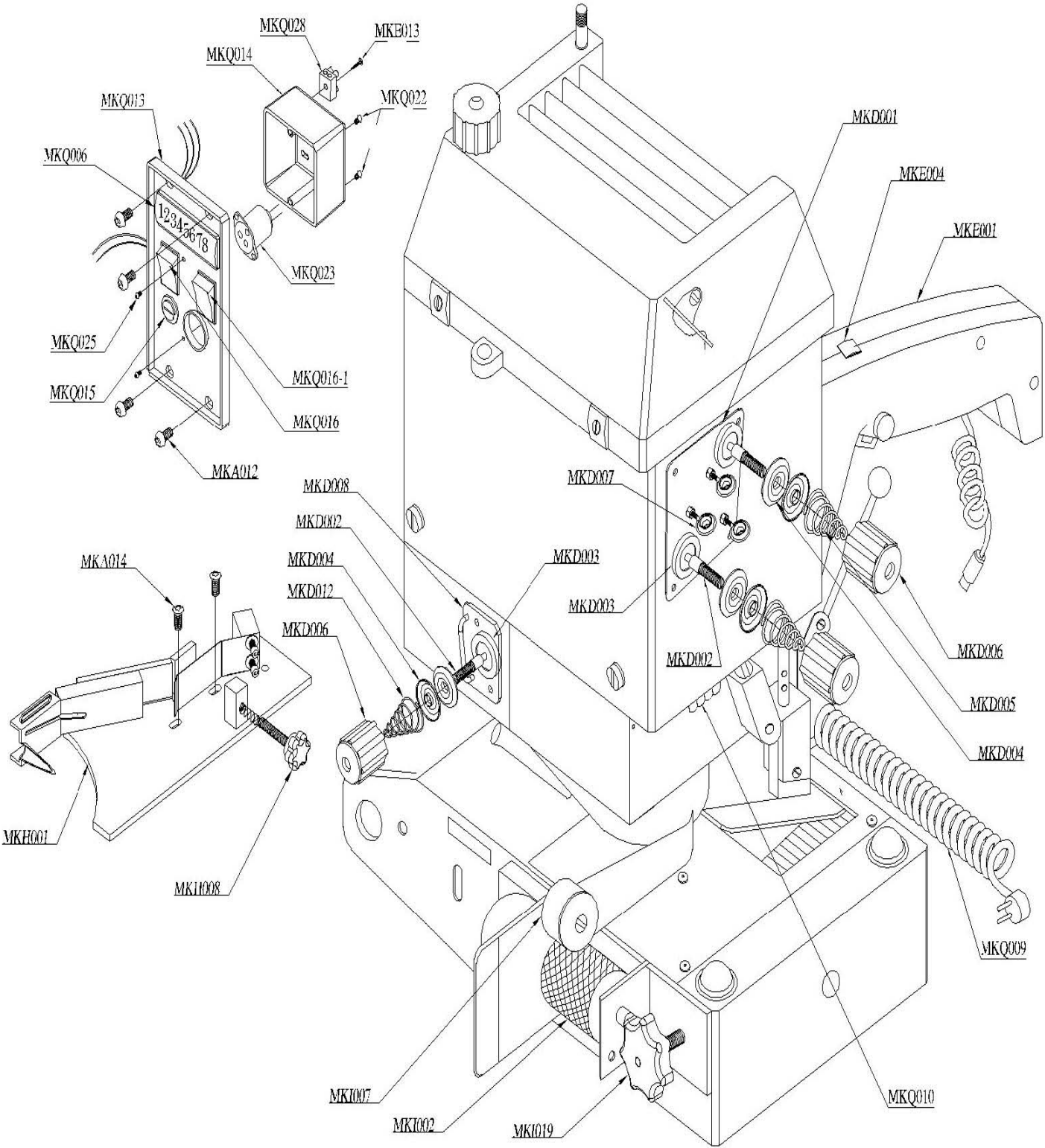
IX – Stitch & Feed Mechanism



IX – Stitch & Feed Mechanism

No.	Ref. No.	Description
1	MKA011	6.8*11*2t washer
2	MKA019	Knurled head nut
3	MKC006	M6*5t nut
4	MKJ022	STW-8 C locking ring
5	MKM011	8.5*13.0.8t washer
6	MKP002	Adjusting shaft
7	MKP003	8.5*18.1.5t Washer
8	MKP004	6.2x18x1.4t washer
9	MKP007	M5x20 lever screw
10	MKP008	M6*20 screw
11	MKP011	White plastic collar
12	MKP013	Stitch nut pin
13	MKP015	Stitch width plastic shaft holder
14	MKP016	STW-10 Locking C ring
15	MKP017	10x82 cylindrical pin
16	MKP018	10.1*16*0.3t washer
17	MKP019	Foam sealing
18	MKP020	10x93.4 cylindrical pin
19	MKP021	Transport lever for feed dog
20	MKP022	Swirel part complete
21	MKP023	ETW-7BK C ring
22	MKP024	8*10*15 side bushing
23	MKP025	10*15*18 upper and lower bushing
24	MKP026	Feed dog
25	MKP027	M4*6 set screw

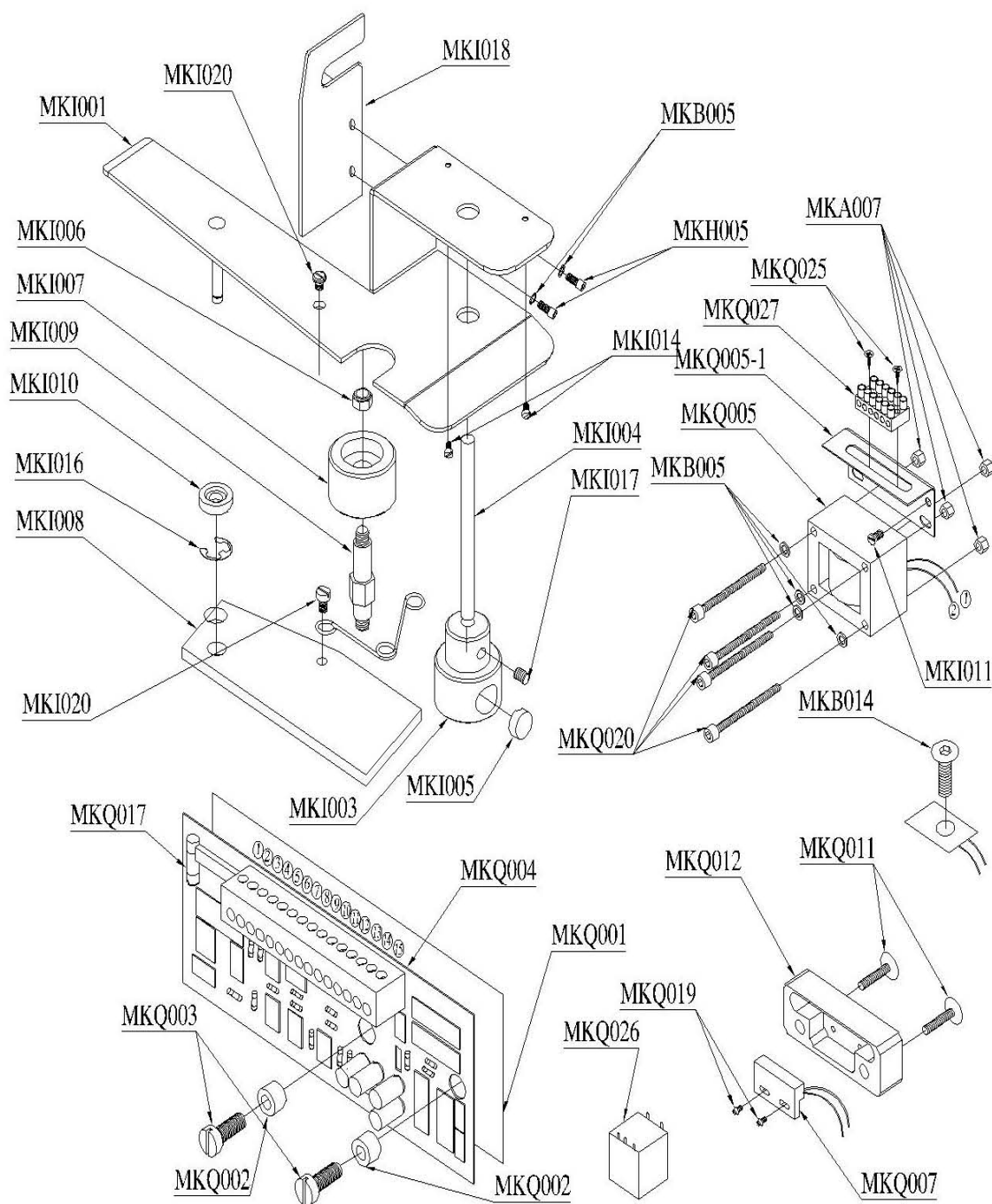
X-Tape guide, Tension & Switch Panel



X –Tape guide, Tension & Switch Panel

No.	Ref. No.	Description
1	MKA012	M4*10 switch panel screw
2	MKA014	M5*8 tape guide screw
3	MKD001	Yarn tension base plate
4	MKD002	Yarn tension stud
5	MKD003	Plastic washer
6	MKD004	Yarn tension disc
7	MKD005	Spring for yarn tension
8	MKD006	Head nut for yarn tension
9	MKD007	Eye bolt
10	MKD008	Cone thrust tensioner plate
11	MKD012	Yarn tension spring
12	MKE001	Handlegrip complete
13	MKE002	Switch
14	MKE004	Speed control wheel
15	MKE013	4 pin housing screw
16	MKH001	Tape guide compl.
17	MKH008	Knurled head nut
18	MKI002	Roller for carpet guide
19	MKI007	Plastic roller for carpet
20	MKI019	M6 knurled head nut
21	MKQ006	Digital counter
22	MKQ009	8m power cable
23	MKQ010	LED light
24	MKQ013	Switch panel plastic frame
25	MKQ014	Switch panel back cover
26	MKQ015	Fuse
27	MKQ016	Power switch
28	MKQ016-1	Power switch for camera & monitor
29	MKQ022	Switch panel back cover screw
30	MKQ023	Power connector
31	MKQ025	Power connector screw
32	MKQ028	4 pin housing

XI - Puller, PCB, Sensor & Transformer

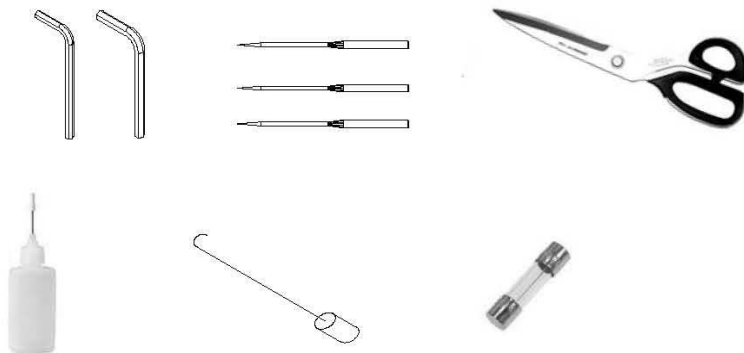


XI - Puller, PCB, Sensor & Transformer

No.	Ref. No.	Description
1	MKA007	M8*40 nut
2	MKB005	4.3*7*1t washer
3	MKB014	M4*8 torx screw
4	MKH005	M4*6 socket head cap screw
5	MKI001	Puller base
6	MKI003	Sensor roller
7	MKI004	Axle shaft
8	MKI005	Magnet 10*5
9	MKI006	M6*5t nut
10	MKI007	White roller
11	MKI008	Roller holder plate
12	MKI009	Roller shaft
13	MKI010	White plastic collar
14	MKI011	M3*4 flat head screw
15	MKI014	M4*6 round head screw
16	MKI016	C-ring for white roller plate
17	MKI017	M5*6 socket set screw
18	MKI018	Puller side plate
19	MKI020	M3*4 round head screw
20	MKQ001	Insulation sheet 0.4t
21	MKQ002	Counter sensor
22	MKQ003	PCB flat screw
23	MKQ004	PCB electric circuit board
24	MKQ005	Transformer 220V, 1.3A
25	MKQ005-1	Transformer holder plate
26	MKQ007	Read counter
27	MKQ011	Read counter cover screw
28	MKQ012	Read counter cover
29	MKQ017	PCB fuse
30	MKQ019	Read counter fix screw
31	MKQ020	M3-0.5*35 socket head screw
32	MKQ025	Housing screw
33	MKQ026	AC capacitor 250V 0.15uf
34	MKQ027	Housing

Standard Accessories

- ✦ Carry case
- ✦ Fuses
- ✦ Oiler
- ✦ Scissors
- ✦ Spare needle -MKG002
- ✦ Spare yarn threader -MKC013
- ✦ Allen key 2.5 / 3.0 / 4.0 / 5.0 mm
- ✦ Operating Instruction & Parts list booklet



Optional Accessories

- Extension Handle - Ref. No. : MKE006
- Foot Operator - Ref. No. : MKR014A
- Strip whipping guide - Ref. No. : MKR003A
- Locating block for bench mounting - Ref no. : MKR002

