

The **GLOBAL** Selection

333 SK

HIGH SPEED LOCKSTITCH SEWING MACHINE WITH
EDGE CUTTER

Service manual
Parts catalog

ATTENTION:

To avoid wrong performance of sewing machine or potential damage towards it , make sure of the following items before operation:

- Wipe and clean the machine before initial operation.
- Oil the machine after cleaning it.
- The voltage is correct.
- Plug is properly connected.
- Running under improper voltage is strictly forbidden.
- Motor pulley rotates in right direction.

1. MAIN SPECIFICATIONS

- | | |
|--------------------------|---------------------------------------|
| 1) Max sewing speed: | 4500rpm |
| 2) Stitch length: | 0-5mm |
| 3) Presser foot lift: | 5mm (by hand)
13mm (by knee) |
| 4) Needle bar stroke: | 31.8mm |
| 5) Take-up lever stroke: | 58mm |
| 6) Knife stroke: | 5mm |
| 7) Needle: | DBx5 # 14 |
| 8) Application: | light to medium heavy weight material |
| 9) Reverse feed device: | available |

2. MACHINE INSTALLATION

- 1) Put the rubber cushions to the four corners of the oil reservoir, then set the oil reservoir to the table.
- 2) Insert the hinge① to the hole for the hinge on the machine head, then set the machine head onto the rubber cushions and the hinge sockets② on the table.
- 3) Align Motor Pully Groove (B) and Balance Wheel Groove (A) by moving the motor(C) leftward or rightward.

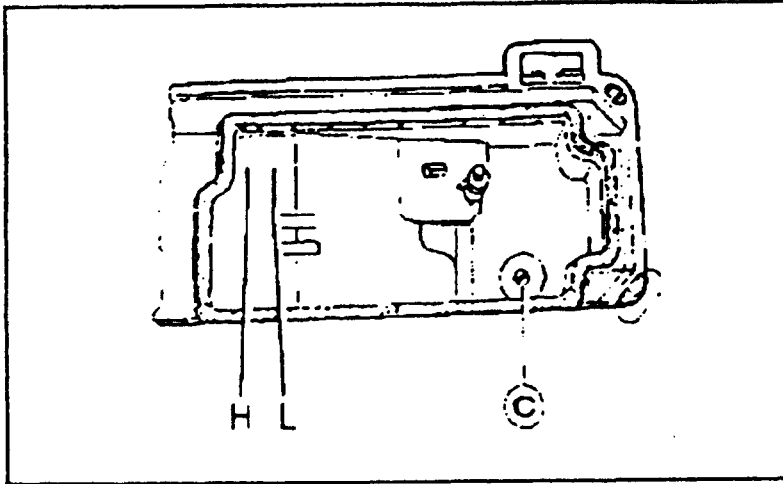
- 1) The forepart of the oil guide chute mustn't stretch leftwards too far from the lengthened line of Plane (A).
- 2) Part (B) of the chip funnel won't touch the oil guide chute when turning up or down the machine head.

The diagram illustrates the correct and incorrect ways to use a pulley system for lifting a load. The left diagram shows the correct setup, with a 15-degree angle and a 10-20 mm gap. The right diagram shows the incorrect setup, marked with an 'X'.

- 1) The optimum tilt angle of Pedal is approximately 15 deg.
- 2) Adjust Clutch Cover so that Clutch-lever and Draw bar run in line.
- 3) The balance wheel should rotate counter-clock wise when viewed from the outside of Balance wheel. The direction of motor pulley rotation can be reversed by reversing (turning over 180 deg) the power plug of the motor.

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6.OILING



- 1) Required amount of oil

Line (H) on the oil
reservoir:

Max. oil level

Line (L) on the oil
reservoir:

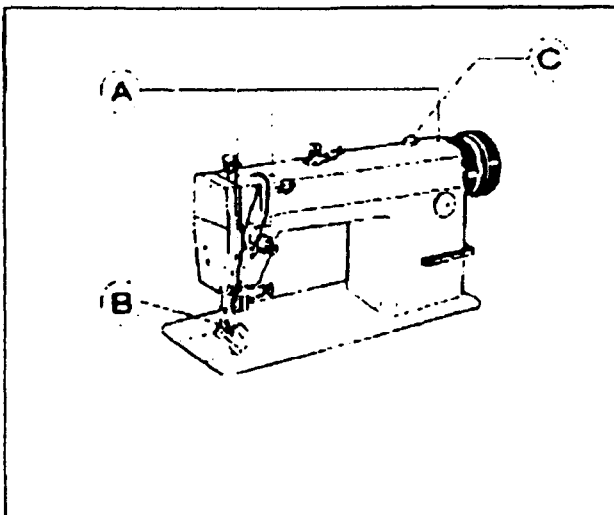
Min. oil level

If oil level goes down under Line(L), oil can not be distributed to each part of the machine, thus causing the parts a seizure.

- 2) Always use 18# special machine oil for high speed sewing machine only. Be sure to replenish oil to Line (H) before operation.
- 3) To replace oil, loosen Screw(C) to drain used oil. After completely draining off oil, clean the oil reservoir and securely tighten Screw(C), then fill the reservoir with fresh oil.

7. RUN-IN OPERATION

Run-in operation is required for a new sewing machine, or a sewing machine left out of operation for a considerable length of time.



- 1) Remove Rubber Plugs(A) on the top of the arm and replenish sufficient amount of oil.**

- ## 2) Lift Presser Foot(B)

- 3) Run the machine at a low speed (2000-2500spm) to check oil distributing condition through Oil Check Window(C).

- 4) Perform run-in operation at 2000-2500spm for 30 minutes. After a lapse of one month of service during which the working speed is increased gradually, the machine runs sufficiently well, and the high speed 4500spm can be adopted according to the nature of the work.

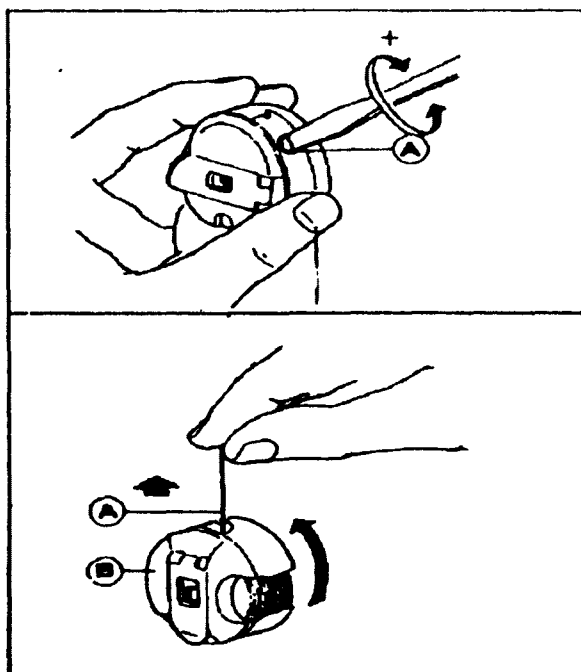
9. ADJUST PRESSURE AND HEIGHT OF PRESSER FOOT

Pressure of presser foot is to be adjusted according to the thickness of materials to be sewn.

- 1) Remove Rubber plug (C) from Face plate (B).
- 2) Loosen screw of presser bar guide bracket and adjust the height of Presser Bar.
- 3) Tighten screw again and put in Rubber Plug(C).

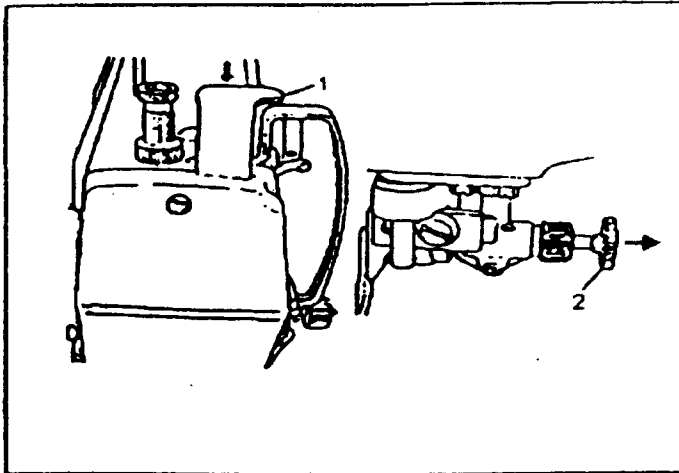
A detailed line drawing of a vintage sewing machine, viewed from a side-front perspective. The machine features a large hand wheel on the right side and a complex internal mechanism. Eleven numbered callouts are used to identify specific parts: 1 points to the needle; 2 points to the needle bar; 3 points to the needle thread guide; 4 points to the needle thread; 5 points to the needle thread tension control; 6 points to the needle thread guide; 7 points to the needle thread guide; 8 points to the needle thread guide; 9 points to the needle thread guide; 10 points to the needle thread guide; 11 points to the needle thread guide.

- ## 11. ADJUST THREAD TENSION



- 1) To adjust bobbin thread tension, turn Tension Spring Regulating Screw (A) of Bobbin case clockwise for more tension, or turn the screw counter – clockwise for less tension.
- 2) The needle thread tension should be adjusted with reference to the bobbin thread tension and it can be adjusted by setting the thread take-up spring tension, the thread take-up spring stroke and the position of thread tension discs or thread guide.

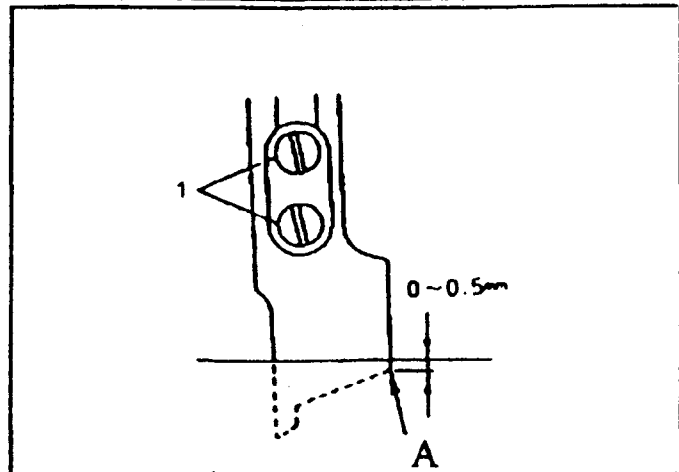
12. INSTALLATION AND OPERATION OF THE KNIFE



Knife operation:

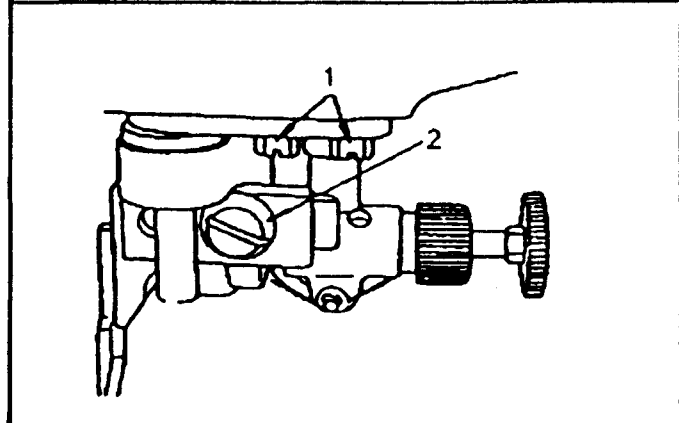
(1) To actuate the cutting knife, press down Knife operating plate (1) to lower the knife while running the sewing machine.

(2) To stop cutting of the knife for sewing only, pull out Knob(2) as indicated by the arrow.



Knife installation:

Install the cutting knife as shown in the figure. When bringing the knife to the lowest position, move it up and down to make sure the part A of the knife is 0-0.5mm lower than the surface of the needle plate.



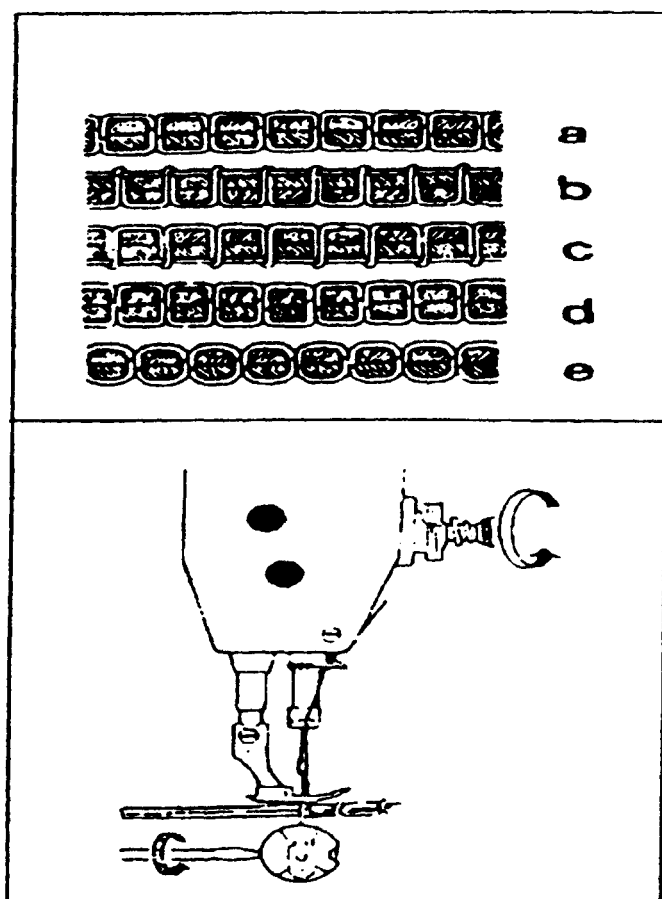
Cutting width change:

(1) The cutting width can be varied by changing needle plate assy. When changing, loosen Set Screw(1) and pull out cutting knife parallelly to ensure a good cutting quality.

(2) Due to the change in the size of needle plate assy. you must change the position of the cutting knife accordingly. Loosen Screw(2) to make the edge of cutting knife touch the edge of needle plate assy, then tighten the screw again.

(3) 3.2mm is the standard specification of this needle plate assy.

13. ADJUST TENSION OF NEEDLE & BOBBIN THREAD



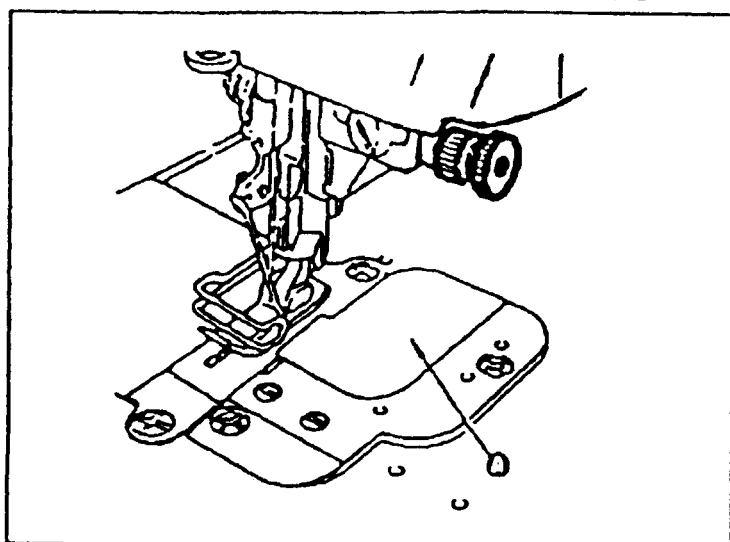
The position of the thread guide affects stitch tightness and therefore must be adjusted according to sewing material and sewing conditions. Fig. (a) shows the correct stitch. Abnormal stitches cause puckering and thread breakage. In such a case the tension of needle thread and bobbin thread must be adjusted accordingly.

1) In case of needle thread tension is too strong or bobbin thread tension is too weak, turn the thumb nut counterclockwise to decrease the needle thread tension, or tighten the tension spring regulating screw of bobbin case to increase the bobbin thread tension.

2) In case of needle thread tension is too weak or bobbin thread tension is too strong, turn the thumb nut clockwise to increase the needle thread tension, or loosen the tension spring regulating screw of bobbin case to decrease the bobbin thread tension.

3) In case of the stitch forms of “d” and “e”, adjustments can be made with reference to the above means.

14. REPLACE OTHER PARTS



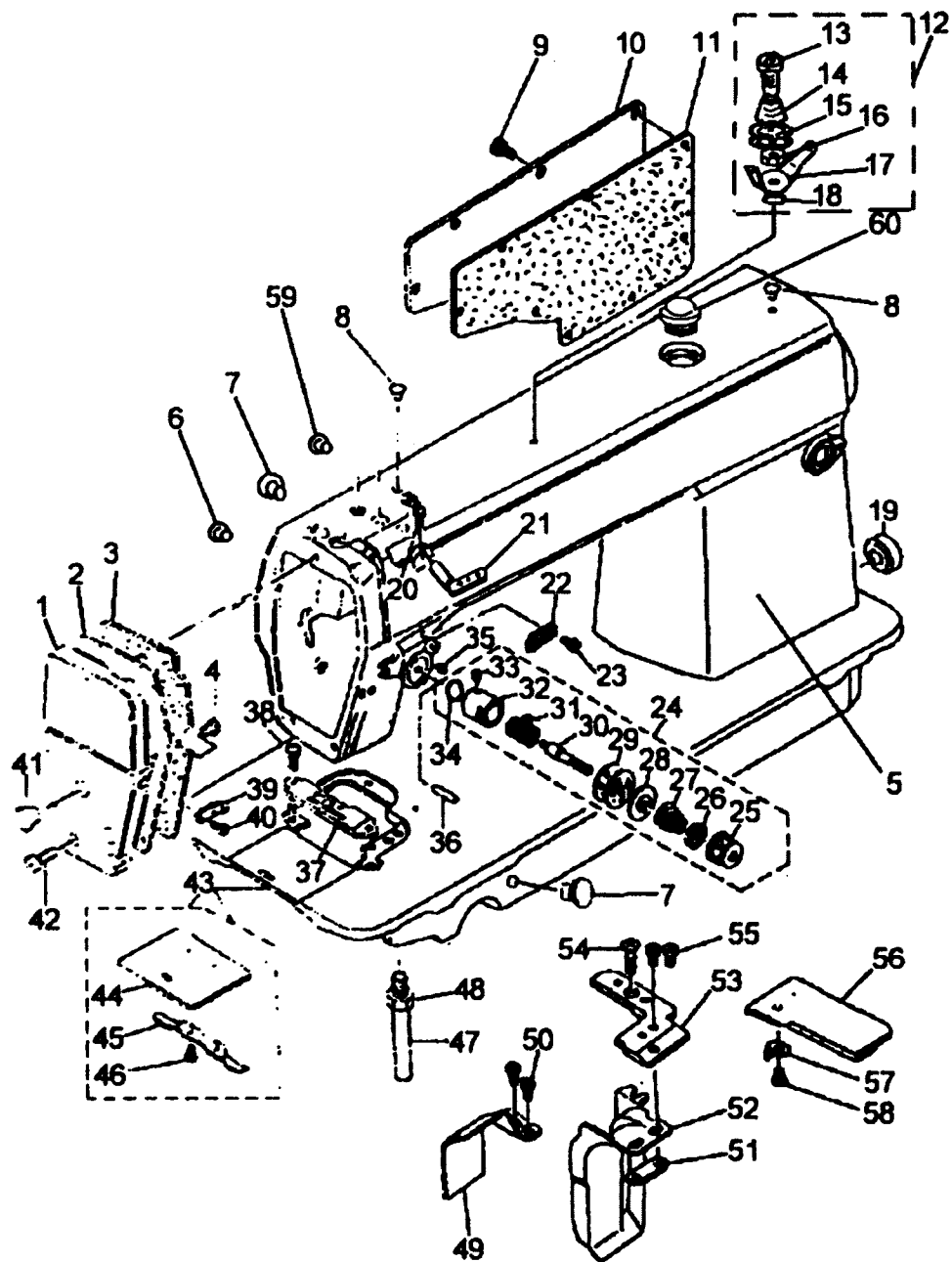
1) When not using the cutting knife, place the cover onto the opening A of the chip funnel.

2) After putting on the cover, the machine can sew only.

15. RELATED PARTS FOR CHANGING CUTTING WIDTH

NAME SPE WIDTH	NEEDLE PLATE	FEED DOG	PRESSER FOOT	KNIFE	CHIP FUNNEL	CHIP GUIDING PLATE	CHIP FUNNEL PLATE
3/32" (2.4mm)	3/32"	3/32"	1/8"	1/8"	1/8"	1/8"	1/8"
1/8" (3.2mm)	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
(4mm)	5/32"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
(4.8mm)	3/16"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
(6.4mm)	1/4"	1/4"	1/4"	1/8"	1/4"	1/4"	1/8"
(9.5mm)	3/8"	3/8"	3/8"	1/8"	3/8"	3/8"	1/8"

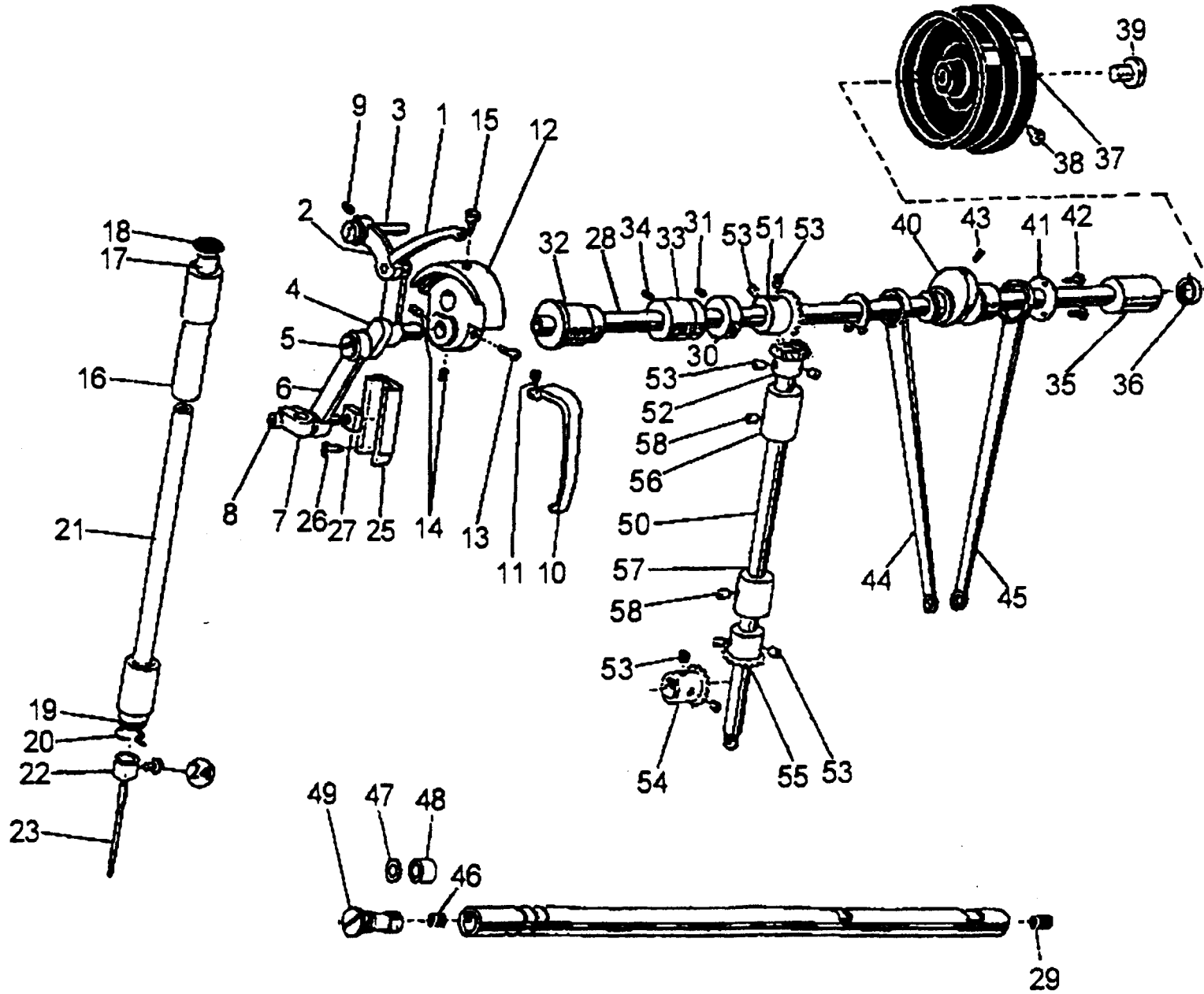
A: ARM BED AND ITS ACCESSORIES



A: ARM BED AND ITS ACCESSORIES

No.	Ref. No.	Name	Quantity
1	H57A001	Face plate	1
2	H57A002	Gasket for face plate	1
3	H57A003	Rubber spacer	1
4	H57A004	Screw	3
5	H57A005	Arm bed assy.	1
6	H57A006	Rubber plug(Φ 19)	1
7	H57A007	Rubber plug(Φ 11.8)	1
8	H57A008	Rubber plug(Φ 5.7)	1
9	H57A009	Screw	8
10	H57A010	Arm side cover	1
11	H57A011	Gasket for arm side cover	1
12	H57A012	Pre-tension assy.	1
13	H57A013	Pre-tension stud	1
14	H57A014	Spring for pre-tension	1
15	H57A015	Disc for pre-tension	2
16	H57A016	Spacer for pre-tension thread guide	1
17	H57A017	Stop ring	1
18	H57A018	Pre-tension thread guide	1
19	H57A019	Rubber plug(Φ 27)	1
20	H57A020	Three-hole thread guide	1
21	H57A021	Set screw	1
22	H57A022	Thread guide	1
23	H57A023	Screw	1
24	H57A024	Thread tension assy.	1
25	H57A025	Thumb nut	1
26	H57A026	Stop disc	1
27	H57A027	Thread tension spring	1
28	H57A028	Thread tension releasing disc	1
29	H57A029	Thread tension disc	1
30	H57A030	Thread tension stud	1
31	H57A031	Thread take-up spring	1
32	H57A032	Thread tension regulating bushing	1
33	H57A033	Set screw	1
34	H57A034	O-ring	1
35	H57A035	Set screw	1
36	H57A036	Thread tension releasing pin	1
37	H57A037	Needle plate	1
38	H57A038	Screw	2
39	H57A039	Thread guide on face plate	1

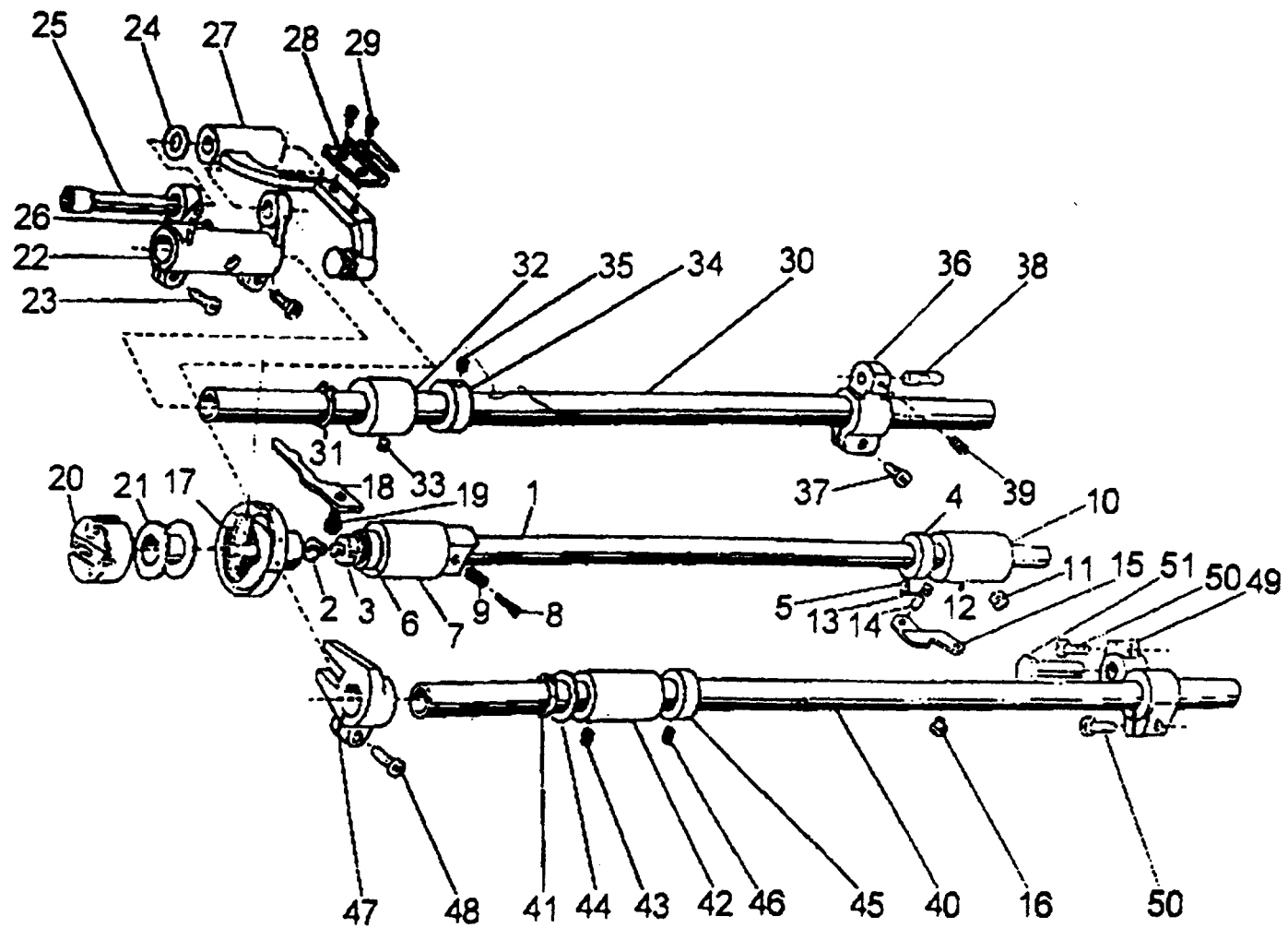
B: ARM SHAFT, VERTICAL SHAFT AND THREAD TAKE-UP MECHANISM



B: ARM SHAFT ,VERTICAL SHAFT AND THREAD TAKE-UP MECHANISM.

No.	Ref. No.	Name	Quantity
1	H57B001	Thread take-up lever	1
2	H57B002	Thread take-up lever link	1
3	H57B003	Hinge pin	1
4	H57B004	Crank	1
5	H57B005	Needle bearing	2
6	H57B006	Set screw(counter-clockwised)	1
7	H57B007	Needle bar link	1
8	H57B008	Needle bar adaptor	1
9	H57B009	Set screw	1
10	H57B010	Set screw	1
11	H57B011	Thread take-up guard	1
12	H57B012	Screw	1
13	H57B013	Needle bar crank	1
14	H57B014	Set screw	1
15	H57B015	Set screw	2
16	H57B016	Set screw	1
17	H57B017	Needle bar bushing(upper)	1
18	H57B018	Rubber plug	1
19	H57B019	Needle bar bushing(lower)	1
20	H57B020	Thread guide for needle bar bushing	1
21	H57B021	Needle bar	1
22	H57B022	Thread guide for needle bar	1
23	H57B023	Needle	1
24	H57B024	Needle clamp screw	1
25	H57B025	Guide for slide block	1
26	H57B026	Set screw	2
27	H57B027	Slide block	1
28	H57B028	Arm shaft	1
29	H57B029	Rubber plug($\Phi 7.4 \times 10$)	2
30	H57B030	Collar for arm shaft	1
31	H57B031	Set screw	2
32	H57B032	Arm shaft bushing(left)	1
33	H57B033	Arm shaft bushing(middle)	1
34	H57B034	Set screw	1
35	H57B035	Arm shaft bushing(right)	1
36	H57B036	Oil seal	1
37	H57B037	balance wheel	1

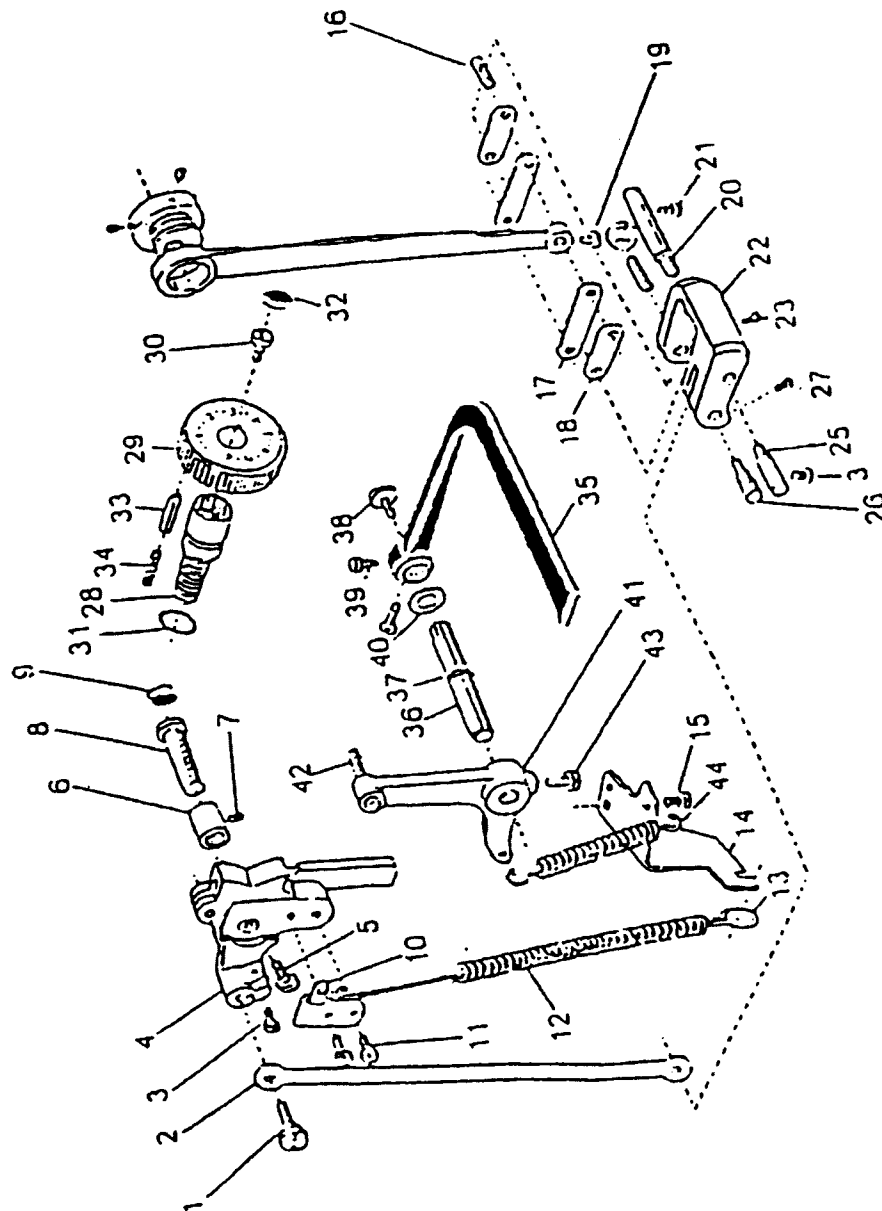
C: FEED, FEED LIFTING AND ROTATING HOOK MECHANISM



C: FEED,FEED LIFTING AND ROTATING HOOK MECHANISM

No.	Ref. No.	Name	Quantity
1	H57C001	Hook shaft	1
2	H57C002	Filter screw	1
3	H57C003	Filter	1
4	H57C004	Collar for hook shaft	1
5	H57C005	Set screw	2
6	H57C006	Oil seal for rotating hook shaft	1
7	H57C007	Hook shaft bushing(left)	1
8	H57C008	Oil adjusting screw	1
9	H57C009	Spring for oil adjuster	1
10	H57C010	Hook shaft bushing(right)	1
11	H57C011	Screw for hook shaft bushing(right)	1
12	H57C012	Oil pipe for hook shaft bushing	1
13	H57C013	Plunger	1
14	H57C014	Plunger spring	1
15	H57C015	Guide plate	1
16	H57C016	Screw	1
17	H57C017	Rotating hook complete	1
18	H57C018	Rotating hook positioner	1
19	H57C019	Screw	1
20	H57C020	Bobbin case	1
21	H57C021	Bobbin	1
22	H57C022	Crank for feed bar	1
23	H57C023	Screw	2
24	H57C024	Washer	1
25	H57C025	Eccentric shaft for feed bar crank	1
26	H57C026	Screw	1
27	H57C027	Feed bar	1
28	H57C028	Feed dog	1
29	H57C029	Screw	2
30	H57C030	Feed rock shaft	1
31	H57C031	C-type stop ring	1
32	H57C032	Bushing for feed rock shaft	1
33	H57C033	Set screw	1
34	H57C034	Collar	1
35	H57C035	Set screw	2
36	H57C036	Feed rock shaft crank(right)	1
37	H57C037	Screw	1

D: STITCH LENGTH REGULATING MECHANISM



D: STITCH LENGTH REGULATING MECHANISM

No.	Ref. No.	Name	Quantity
1	H57D001	E-type stop ring	1
2	H57D002	Stitch regulating link	1
3	H57D003	Feed regulating rocker pin	1
4	H57D004	Feed regulating rocker	1
5	H57D005	Screw	1

This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or valve. The components are numbered 1 through 47. The assembly is organized into several functional groups:

- Top Left (Parts 1-6):** A long, curved lever (1) is connected to a vertical rod (2) via a pin (3) and a spring (4). A nut (5) secures the rod to the lever.
- Top Right (Parts 35-43):** A circular component (35) is connected to a rod (36) which passes through a series of bushings (37, 38) and a pin (39).
- Center (Parts 30-46):** A central assembly featuring a vertical rod (30) with a pin (31) and a nut (32). A spring (33) is attached to the rod. A lever (34) is connected to the rod via a pin (35).
- Bottom Left (Parts 7-24):** A complex assembly including a spring (7), a pin (8), a nut (9), a pin (10), a nut (11), a pin (12), a pin (13), a pin (14), a pin (15), a pin (16), a pin (17), a pin (18), a pin (19), a pin (20), a pin (21), a pin (22), a pin (23), a pin (24), a pin (25), a pin (26), a pin (27), a pin (28), a pin (29), a pin (30), a pin (31), a pin (32), a pin (33), a pin (34), a pin (35), a pin (36), a pin (37), a pin (38), a pin (39), a pin (40), a pin (41), a pin (42), a pin (43), a pin (44), a pin (45), a pin (46), a pin (47).
- Bottom Right (Parts 25-47):** A complex assembly including a spring (25), a pin (26), a pin (27), a pin (28), a pin (29), a pin (30), a pin (31), a pin (32), a pin (33), a pin (34), a pin (35), a pin (36), a pin (37), a pin (38), a pin (39), a pin (40), a pin (41), a pin (42), a pin (43), a pin (44), a pin (45), a pin (46), a pin (47).

No.	Ref. No.	Name	Quantity
1	H57E001	Operating lever for knife	1
2	H57E002	Felt	1
3	H57E003	Screw	2

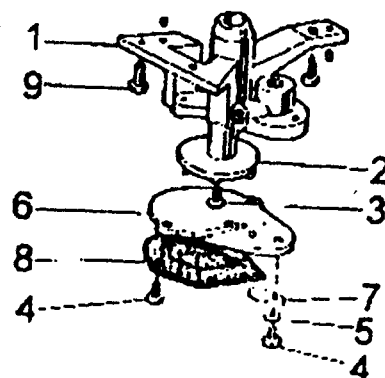
This diagram is an exploded view of a mechanical assembly, likely a vehicle's suspension or steering component. It features the following numbered parts:

- 1**: A small pin or bolt.
- 2**: A small circular component, possibly a washer or bush.
- 3**: A bracket or housing part.
- 4**: A small pin or bolt.
- 5**: A bracket or housing part.
- 6**: A small pin or bolt.
- 7**: A small circular component, possibly a washer or bush.
- 8**: A small circular component, possibly a washer or bush.
- 9**: A long, thin rod or shaft.
- 10**: A small pin or bolt.
- 11**: A small pin or bolt.
- 12**: A bracket or housing part.
- 13**: A small pin or bolt.
- 14**: A bracket or housing part.
- 15**: A long, thin rod or shaft.
- 16**: A small pin or bolt.
- 17**: A small circular component, possibly a washer or bush.
- 18**: A small pin or bolt.
- 21**: A small circular component, possibly a washer or bush.
- 22**: A small circular component, possibly a washer or bush.
- 23**: A small circular component, possibly a washer or bush.
- 24**: A small circular component, possibly a washer or bush.
- 25**: A bracket or housing part.
- 26**: A bracket or housing part.
- 27**: A bracket or housing part.
- 28**: A small circular component, possibly a washer or bush.

F: KNIFE CONTROL MECHANISM

No.	Ref. No.	Name	Quantity
1	H57F001	Presser bar lifter	1
2	H57F002	Set screw	1
3	H57F003	Presser bar lifting cam	1
4	H57F004	O-ring	1
5	H57F005	Knee lifter lever(left)	1
6	H57F006	Tension releasing cam	1
7	H57F007	Screw	1
8	H57F008	Screw	1
9	H57F009	Knee lifter rod	1
10	H57F010	Screw	1
11	H57F011	Tension releasing pin	1
12	H57F012	Knee lifter lever(right)	1
13	H57F013	Spring	2
14	H57F014	Bolt for knee lifter lever	1
15	H57F015	Knee lifter connecting rod	1
16	H57F016	Pin for spring	1
17	H57F017	Presser bar bushing	1
18	H57F018	Presser bar	1
19	H57F019	Presser bar lifting bracket	1
21	H57F021	Presser bar guide	1
22	H57F022	Spring for presser bar	1
23	H57F023	Lock nut	1
24	H57F024	Pressure regulating thumb screw	1
25	H57F025	Upper thread guide	1
26	H57F026	Screw	1
28	H57F028	Screw	1
29	H57F029	Presser foot assy.	1

A technical line drawing of a mechanical device, possibly a pump or a specialized motor. The device features a main body with a large cylindrical component on the right side. Various parts are labeled with numbers: 10 points to the base; 11 and 12 indicate a control or adjustment mechanism on the left; 13 points to a vertical support or pipe; 14 and 15 point to a curved, flexible component; 16 points to a small circular feature. The drawing is a perspective view showing the internal structure and components.



G: LUBRICATION MECHANISM

No.	Ref. No.	Name	Quantity
1	H57G001	Oil pump body	1
2	H57G002	Oil pump impeller	1
3	H57G003	Screw	1
4	H57G004	Screw	3
5	H57G005	Spring washer	1
6	H57G006	Oil pump fitting plate	1
7	H57G007	Oil adjusting plate	1
8	H57G008	Oil pump screen assy.	1
9	H57G009	Screw	3
10	H57G010	Oil pipe for hook shaft	1
11	H57G011	Oil braid fitting plate	1
12	H57G012	Screw	2
13	H57G013	Oil pipe for arm shaft	1
14	H57G014	Oil return pipe	1
15	H57G015	Felt pouch	1
16	H57G016	Pipe holder	1

This exploded view diagram illustrates the assembly of a mechanical device, likely a portable power source or a specialized tool. The components are numbered 1 through 42. The main housing (1) is shown with internal components like the motor or pump (2, 3) and various fasteners (4, 5, 13, 23, 24, 25, 26). A control lever (12) is attached to the side. The device is powered by a battery (30) and a fuel tank (31). The fuel system includes a pump (32, 33) and a valve (34, 35, 36, 37, 38, 39, 40, 41, 42). A handle (28) and a trigger (29) are also shown. The diagram is a technical illustration in black and white, showing the relative positions and assembly sequence of the parts.

No.	Ref. No.	Name	Quantity
1	H57H001	Oil reservoir assy.	1
2	H57H002	Oil drain screw	1
3	H57H003	Washer	1
4	H57H004	-Oil guide	1
5	H57H005	Set screw	2
6	H57H006	Bracket for chip chute	1
7	H57H007	Wood screw	3
8	H57H008	Chip chute(big)	1
11	H57H011	Chip chute(small)	1
12	H57H012	Screw	4
13	H57H013	Knee lifter lifting rod	1
14	H57H014	Vinyl cover	1
15	H57H015	Hinge assy.	2
16	H57H016	Oiler	1
17	H57H017	Needle	1
18	H57H018	Screw driver(short)	1
19	H57H019	Screw'driver(medium	1
20	H57H020	Rubber cushion(small)	2
21	H57H021	Rubber cushion(big)	2
22	H57H022	Thread spool stand	1
25	H57H025	Washer	2
26	H57H026	Wood screw	2
27	H57H027	Screw driver(long)	1
28	H57H028	Knee lifter bell assy.	1
29	H57H029	Bobbin winder assy.	1
30	H57H030	Oil container	1
32	H57H032	Belt cover assy.	1
33	H57H033	Screw	2
34	H57H034	Belt cover assy.	1
35	H57H035	Screw	1
36	H57H036	Screw	2
37	H57H037	Belt cover	1
38	H57H038	Washer	2
39	H57H039	Wood screw	2