

LOCKSTITCH SOLE SEWING MACHINE MODEL DN 2000

It is important to read these instructions carefully before using the stitcher.

MACHINE SPEED :-

Model DN 2000 is supplied set to run at 100 stitches per minute and it is suggested that the operator should become fully conversant with the machine before the drive is adjusted to the higher speed of 160 stitches per minute, if required.

This operation is carried out by changing belt DN 2050 onto the larger 'V' motor pulley DN 1665 and realigning the motor pulley to ensure that the belt is running vertical as shown on Plate 2.

STITCHING TRIALS :-

The machine's Lubricating Tank, DN 4113+ as shown on Plate 4 must be filled with a solution to lubricate the thread, i.e. a soluble oil mixed with water. The thread feeding from the machine base must always be wet when stitching. The shuttle thread must be waxed. The machine is supplied with a stitch sample attached. This should be removed cutting the thread close to the work piece. The Horn thread should be drawn through at the same time until freshly lubricated thread is clear of the horn and then fix under clip DN 1050, as shown on page 6, and cut off surplus thread. The shuttle thread should be left with approximately 8 - 10cm of loose thread. Scrap leather should be used in order to gain experience in the working of the machine. To examine the stitching principle, the machine may be operated by hand rotating the handwheel in a clockwise direction, i.e. the top of the handwheel away from the operator when standing at the front of the machine. Correct conditioning of the leather to be stitched will reduce the wear on the needle and other functioning parts.

STITCHING :-

Attach the thread under the spring clip, DN 1050 and position the bow of the horn to the left, as shown on page 6, rotate the handwheel until the presser foot is positioned close to the needle and using the Foot Treadle (L.H.) raise the presser foot to its upper position. Place the work between the horn cap and the presser foot and lower to clamp the workpiece. The stitching can then proceed by operating the (R.H.) Foot Treadle and guide the work as required. The stitch length may be varied by adjustment of the stitch length control knob, DN 825S as shown on Plate 1. The presser foot tension should be adjusted when working with very soft materials, i.e. felt or rubber etc., or with extreme thicknesses of material. This is carried out by adjustment of nuts at the top of machine, DN 832 and DN 833, as shown on Plate 10. To stop stitching release the foot treadle

and rotate the machine by hand until the needle is about to pierce the leather, turn the handwheel back one full turn and raise the presser foot. The shoe may then be removed from the machine at the same time assisting the thread passing through the horn.

SHUTTLE Fig 5 :-

To remove the shuttle rotate the machine by hand until the shuttle point, thread splitter, and needle point are coincidental, fig 5. Loosen the retaining screw DN 919. Rotate the shuttle retaining ring DN 918, and pull downwards. The shuttle DN 920 may then be removed. Remove the bobbin DN 927 from the shuttle using the special key DN 1114 supplied with the machine, fig 4.

TO FIT NEW BOBBIN INTO SHUTTLE Fig 6 :-

- A) Pass the free end thread through the wire loop of the threader, DN 463 and draw it from inside to outside through hole 'A' in the shuttle wall.
- B) Press the bobbin into the shuttle (the two holes in the bobbin wall to be outwards). It is advisable to place a few drops of machine oil in the housing before pressing in the bobbin. Check that the thread pulls through freely.
- C) Pass the threader through the hole 'B' and draw the thread end through the hole.
- D) * Position the thread behind the flat tension spring DN 930 and the thread may now be drawn through. The shuttle can now be replaced into the machine.
- E) * The shuttle thread tension can be varied by adjusting the screw DN 933.

* Only when parts are requested.

THREADING THE MACHINE Fig 1 :-

The thread path through the machine is as shown on page 6 , This is done by removing the door, DN 4075.

NEEDLE SETTING :-

When a new needle is fitted, the shank end must locate up to the stop pin DN 1011, situated inside the needle bar DN 1005, as shown on Plate 9. The hook of the needle must be directed to the right when viewed from the front of the machine and pointing slightly into the body of the machine. Ensure that the clamp screw DN 1014 is secure. When the needle is in its lowest position the top of the needle barb must be just below the thread hole in the whirl DN 1048, see fig 2.

WHIRL AND PINION :-

Rotate the handwheel until the shuttle tip, when travelling from left to right is in line with the needle, fig 4. Rotate the horn so that the horn tip is facing the machine column. Remove the horn cap DN 1043, as shown on Plate 6. The hole in the whirl should be positioned as shown in fig 3. It is important that if a new whirl or pinion is fitted the engagement of the teeth is correct, this is shown in fig 2. Adjustment is made by removing the horn tip and pinion DN 1042 and DN 1047 and adjust the small screw DN 1047a situated in the end of DN 15. Only small adjustments to this screw should be required.

BOBBIN WINDING :-

The bobbin winder is situated on top of the base on the right hand side, as shown on Plate 1.

The cop of pre-waxed thread is positioned on the right hand spool holder, DN 1530B, and the thread path to the bobbin winder is as shown on Fig 1, page 6.

Two bobbins should be positioned on to the driving spindle by removing Knob DN 4056, so that the driving pin engages into one of the two holes situated in the bobbin flange of the inner bobbin. Pass the free end of the thread from inside to outside through the hole in the outer flange of the second bobbin and trap it between the outer face and the knob DN 4056. Tighten knob finger tight. Rotate the bobbin by hand 2 - 3 turns running anti-clockwise, viewed from spindle end to engage the thread on the bobbin. The thread must be over the guide bar as shown on fig 1. Engage the drive by lifting the operating lever, DN 4055 as shown on Plate 11. The thread should be 'laid' during the winding process to ensure even take-off when stitching. When both bobbins are full, release the lever to disengage the drive, remove both bobbins and trim off threads. Note: The fixed end thread on both should be trimmed as close to the flange as possible.

MAINTENANCE :-

DAILY - Oil all working faces and oil holes.

WEEKLY - Apply grease to all grease nipples with grease gun.

MONTHLY - Grease main countershaft, by means of grease nipple in right hand bearing block.

RECOMMEND THREAD AND NEEDLE SIZES :-

The machine thread must be reverse (left) twist.

The machine thread should not be more than 2 sizes above the needle size i.e. No 5.

MOTOR VOLTAGE :-

Switches are supplied to suit the motor. If the motor is changed to a different voltage the switches must also be changed.

MACHINE SETTING AND FAULT FINDING :-

Before stitching by power a check should be made to ensure that the settings are correct to form the stitch. To do this the machine should be threaded up, Fig 1. Take the thread coming through the whirl and trap lightly with the thumb against the horn tip (the horn's bow should be to the left). Turn the handwheel by hand in the direction indicated to bring the needle down through the whirl which will rotate placing the thread in the needle barb. When the needle rises the thread is drawn through the horn, and when the loop so formed gets as high as the shuttle the thread splitter DN 928 will come across from the right and separate the threads just under the needle point. The needle will continue to rise and the shuttle will reverse so the shuttle point travelling from the left will go through the gap made by the thread splitter. Then the thread lifter DN 936 will move upwards taking the thread off the needle so that it passes around the shuttle and forms a loop around the shuttle thread. The thread lever DN 4006 , will then pull the machine thread down through the horn to form the 'lock'. Fig 5, Page 7 .

1. If the needle does not pick up the thread :- See whirl setting instructions. See needle setting instructions (the needle could be going down too far or not far enough, Fig 2.)
2. If the thread splitter does not divide the thread :- Check that the point of the thread splitter passes exactly under the point of the needle. The thread splitter can be bent into the correct position.
3. If the thread lifter does not lift the thread from the needle :- Bend slightly up or down or move in or outwards by means of screw DN 937, Fig 5, adjusting the thread lifter so that in its highest position the point of the thread lifter is approximately 1mm to the left of the needle. Check that there is sufficient gap between the needle and the thread lifter for the thread to pass.

Stitching by power can now take place. The 'lock' produced by the horn thread and the shuttle should pull into the middle of the material. This can be adjusted by balancing the tension of the horn thread by turning knob, DN 4104A, Fig 1, and shuttle thread by screw DN 933, Fig 6.

THREAD BREAKAGE :-

If the thread frays or breaks, check that there are no sharp edges on the horn tip, the thread splitter, the thread lifter, the shuttle or needle. Although the thread may break in the horn it can be caused by rough edges on parts above the whirl. 90% of thread breakage is due to rough edges developing on working parts which parts which fray the thread. This must be carefully checked before the cause of breakage is sought by altering machine settings. It is essential that the machine is allowed to feed the work and that the operator does not push. If the work is pushed while the needle is in the work the needle can bend and strike the horn cap damaging the needle and/or the horn cap in such a way that the thread will fray. The thread will also fray if it is dry. Check lubricant in the container and if the machine has been standing, pull through and remove the dry portion of the thread.

1. If the thread breaks in the machine base :- Check that the machine is threaded up correctly and that the thread is not trapped, Fig 1.

2. If the machine misses stitches :- Check whirl settings. Check needle settings.
3. If material does not feed :- Check that the pawl DN 809 at the back of the presser foot bar, Plate 10, is engaging correctly in the teeth of the presser foot bar. To do this remove the front cover of the machine head. Do not run the machine under power when the front cover is removed as the needle bar is then unsupported.

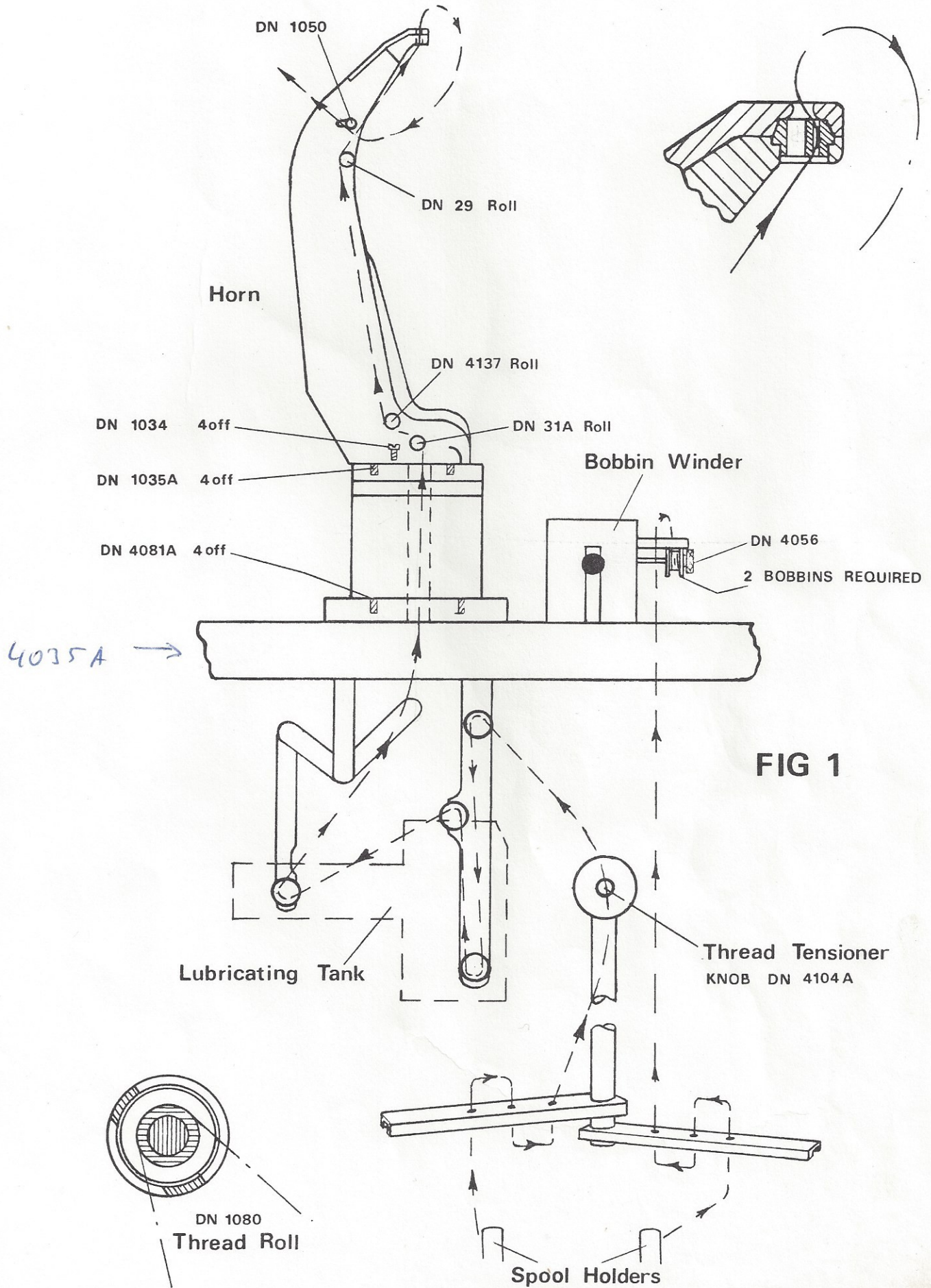
MACHINE ARE SUPPLIED WITH THE FOLLOWING SETTING CORRECT. THESE SHOULD BE CHECKED.

SHUTTLE - When the shuttle point and the thread splitter DN 928 are both at their farthest point left, the distance between the point of the thread splitter and the needle should be 13 - 15 mm.

THREAD LEVER DN 4006 -As the needle bar DN 1005 travels downwards and the groove on the top of the needle bar is level with the top of bush DN 714 in the head casting, the lever DN 4006 should be just starting its downwards movement.

PRESSER FOOT - The presser foot is fitted with screws DN 817 and DN 920, Plate 10, which can be adjusted to give correct alignment. A single point presser foot should be in line with the needle. When using a double point presser one point should be on each side of the needle. The presser foot must be set to clear and not touch the horn cap.

HORN - The needle must pass through the centre of the horn cap. Should this be in error check that the needle is not bent, if it is straight it may be corrected by adjustment of the 4 screws DN 4081A situated in the horn base, DN 4081. Should the whirl/horn be out of square with the needle the horn may be tipped by one or more grub screws, DN 1035A in the horn. The four slotted screws DN 1034 must be slackened before adjusting the horn. As shown on Fig 1.



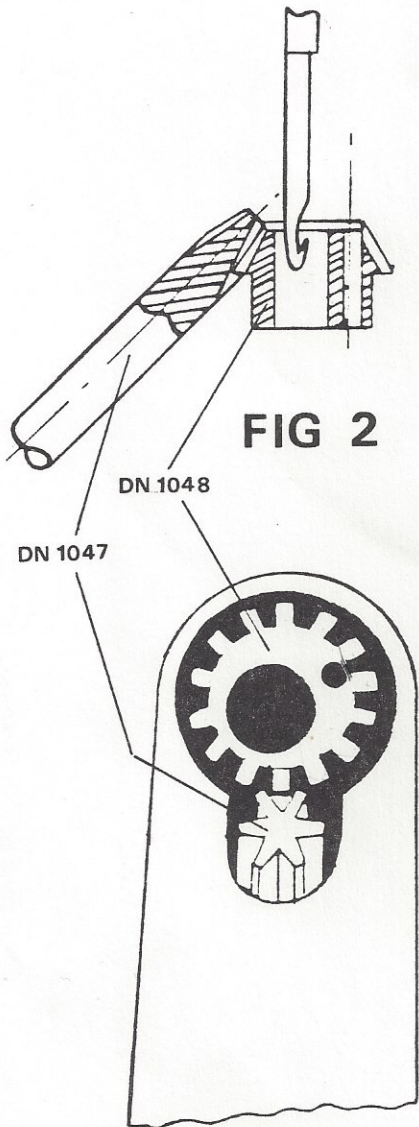


FIG 2

DN 1048

DN 1047

FIG 3

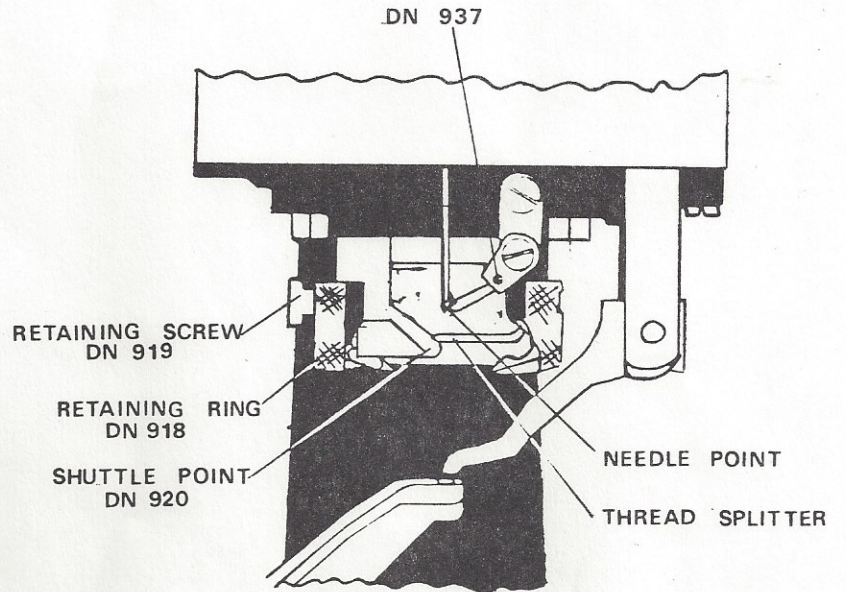


FIG 5

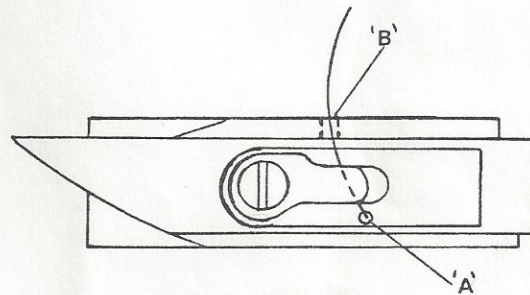


FIG 6

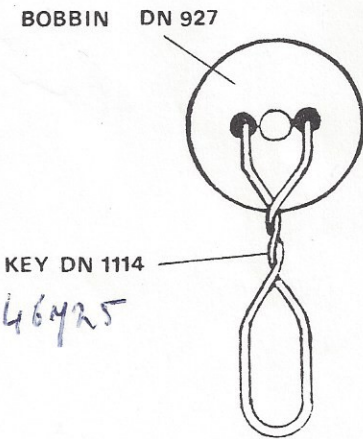


FIG 4

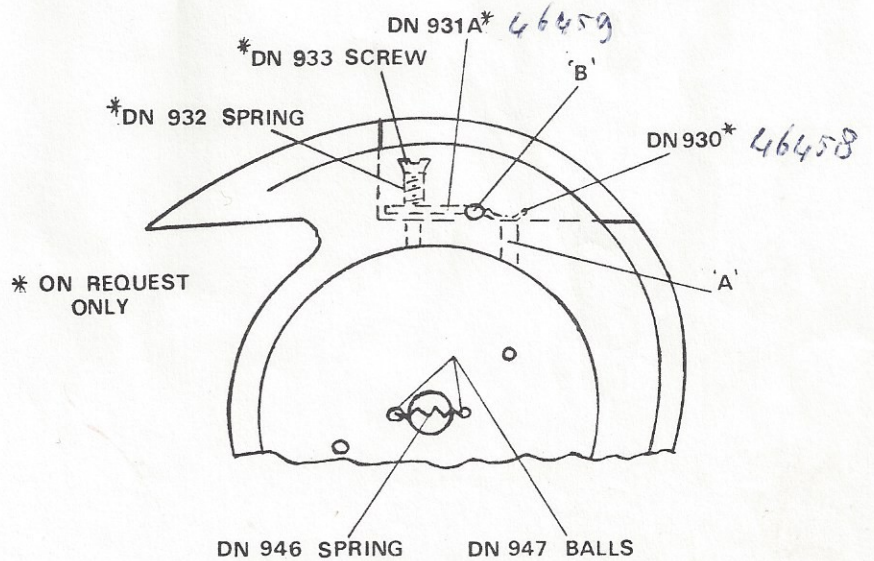


PLATE 1

4186
10485 + 10481
(476?)

PLATE 8
HEAD DN 702
HEAD COVER DN 2108
SIDE PLATE DN 2168A

PLATE 10

PLATE 9

DN 825S

PLATE 9

PLATE 10

PLATE 10

COLUMN DN 4036
TOP COVER DN 4107
BOTTOM COVER DN 4108

PLATE 6

PLATE 7

BELT GUARD DN 4131

PLATE 6

DN 4134

PLATE 11

BOBBIN WINDER COVER
DN 4115

4035
cut

DN 4075a

PLATE 4

DN 2069A

DN 2057

BASE DN 4060
BACK PANEL DN 4077

TREADLE GUARD
DN 4105A
DN 4105 UK ONLY

DOOR PANEL
DN 4075

PLATE 3

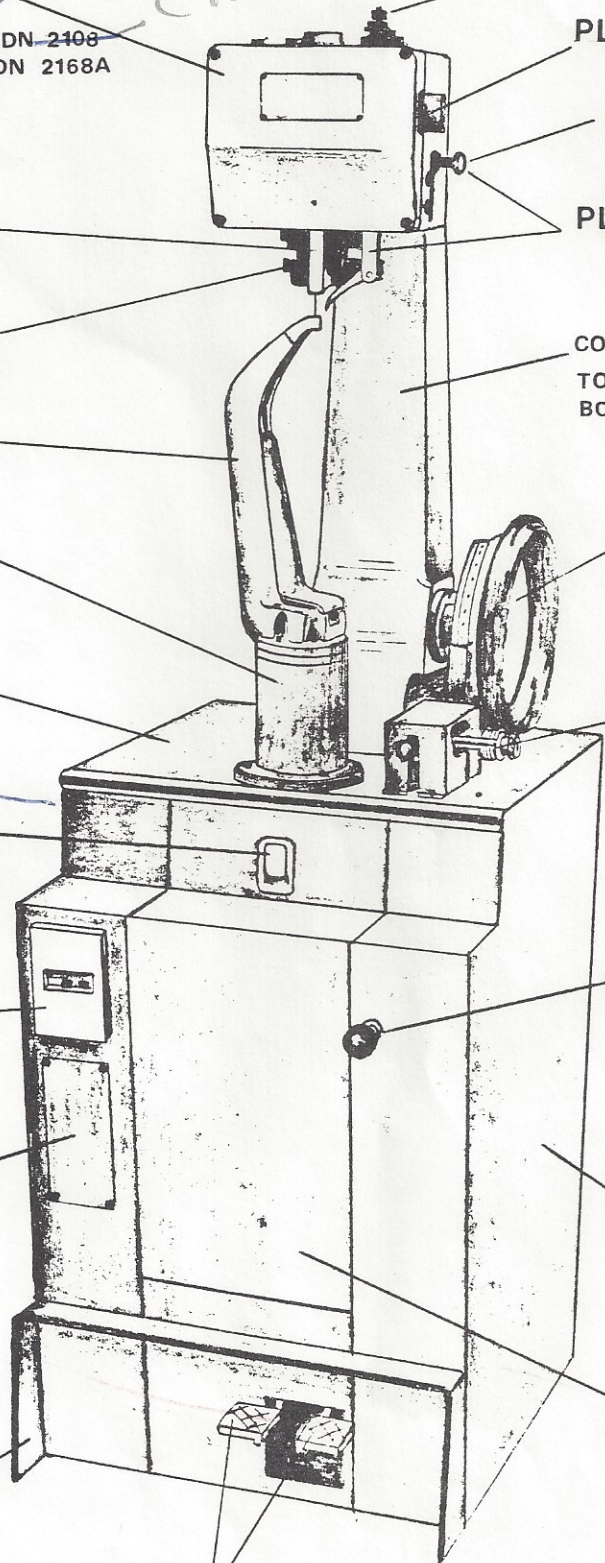


PLATE 2

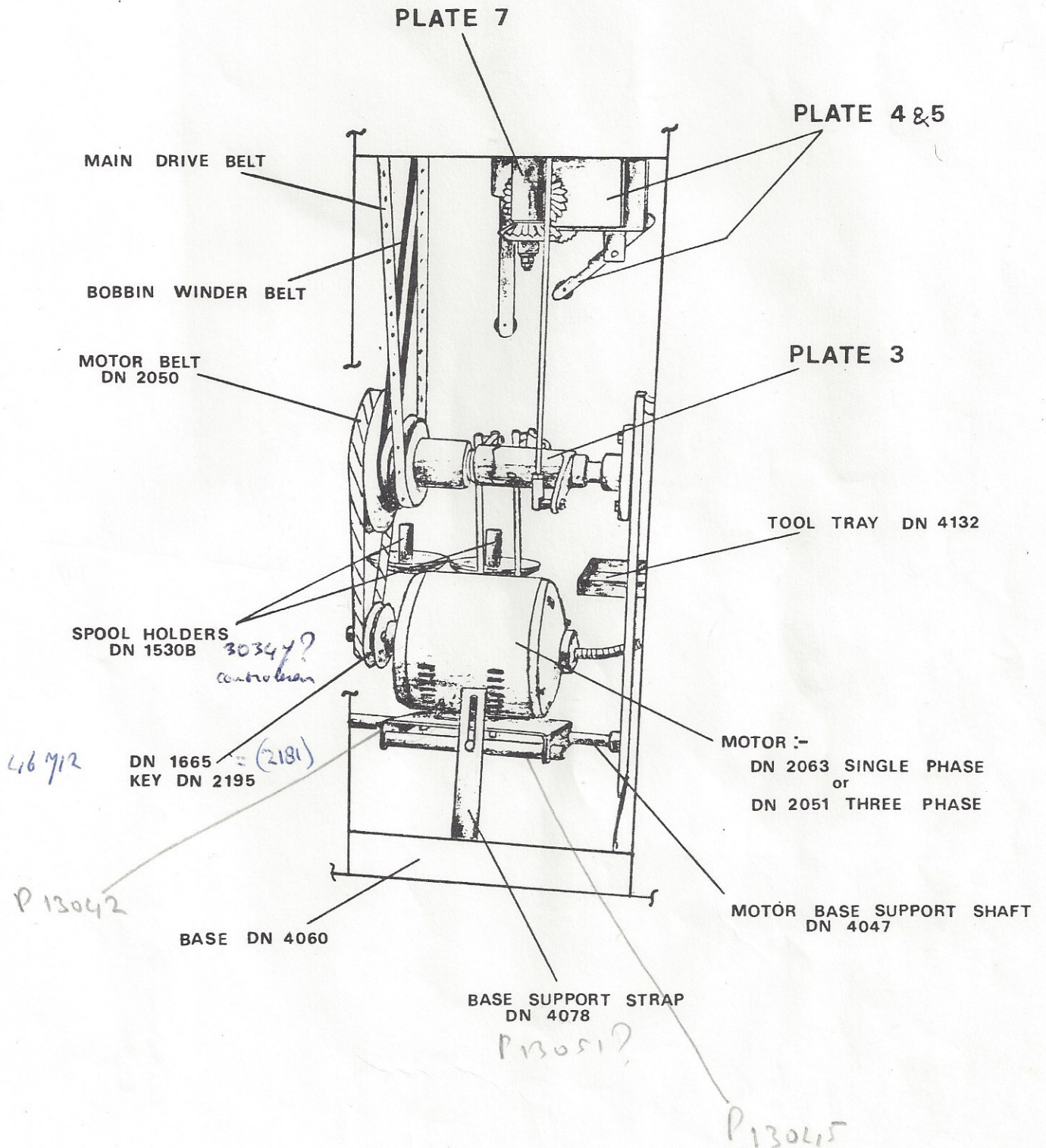
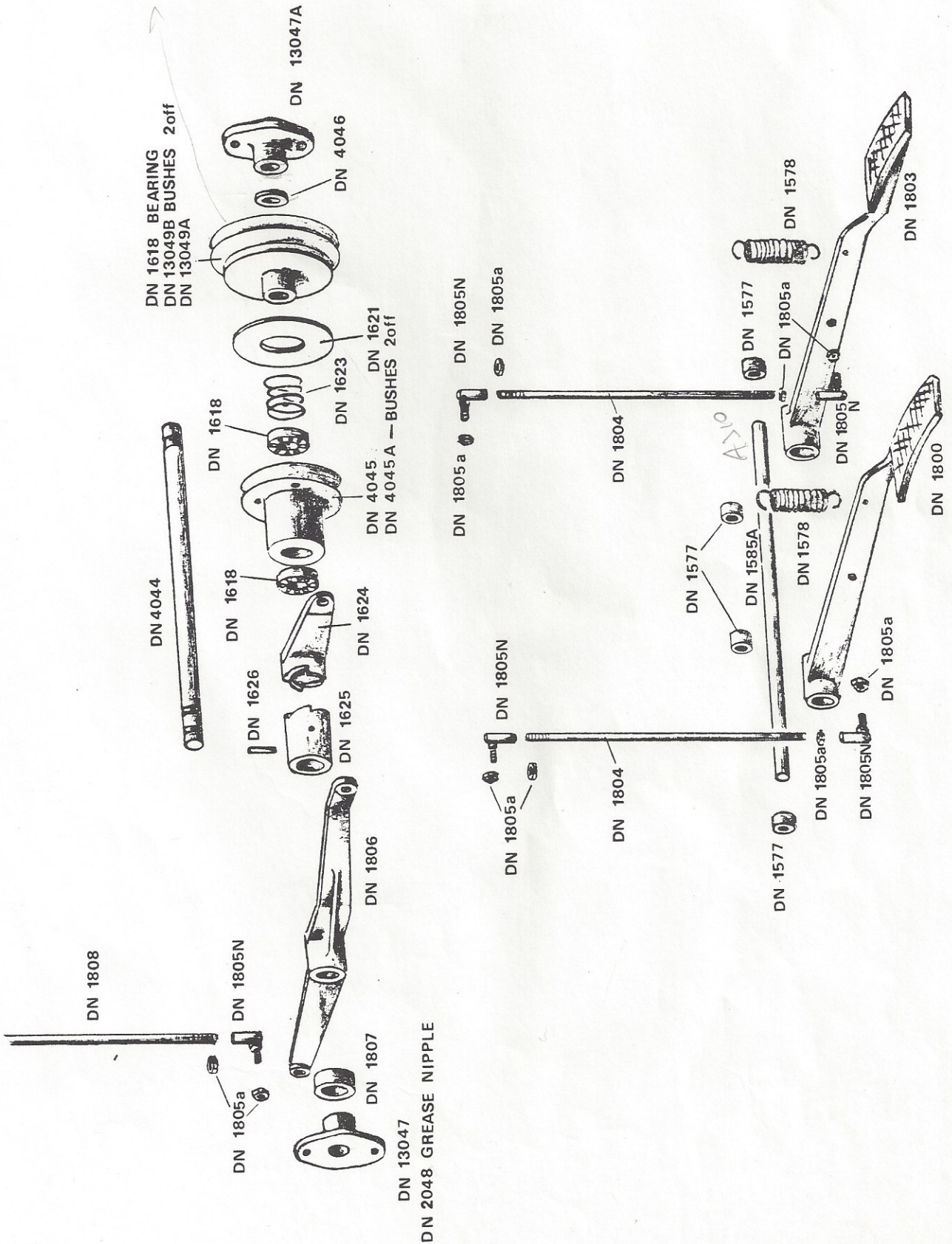


PLATE 3

Plate



DN 13047
DN 2048 GREASE NIPPLE

PLATE 3

- ✓ DN 4044 Clutch Shaft
- DN 1806 Treadle Lever — 47344
- DN 1807 Collar for DN 1806
- DN 1807a Grub Screw for DN 1807
- DN 1625 Clutch Dog
- DN 1626 Pin for DN 1625
- DN 1624 Clutch Lever 44660
- DN 1618 Thrust Bearings
- ✓ DN 4045 Main Drive Pulley
- DN 1621 Pulley Clutch Pad
- DN 1622 Screws for DN 1621
- DN 1623 Clutch Spring
- DN 13049A Clutch Shaft Pulley 13049A?
- DN 13049b Bushes for DN 13049A
- ✓ DN 4046 Clutch Shaft Spacing Collar
- DN 13047 Clutch Shaft Bracket (R.H.) 13047
- DN 13047A Clutch Shaft Bracket (L.H.)
- DN 13047b Screws for DN 13047 & DN 13047A to DN 4044
- DN 1616 Screws for DN 13047 & DN 13047A
- DN 2048 Grease Nipple in DN 13047
- DN 1808 Presser Foot Lever Rod
- DN 13048a Screw securing 4044 to Base DN 4060

✓ 4047

✓ 4048

✓ 4049

- DN 1585A Treadle Shaft
- DN 1800 Treadle L.H. (Presser Foot) 32614
- DN 1803 Treadle R.H. (Clutch) 32666
- DN 1577 Collar for DN 1800 & 1803
- DN 1577a Screw securing DN 1577 to 1585A
- DN 1804 Treadle Rod 47351
- DN 1805N Rod End Swivel Joint
- DN 1805a Nuts for DN 1805N
- DN 1578 Treadle Spring

✓ 4043 ~~Foot~~ shelf ?

✓ 4044

✓ 4075 voordeur

✓ 4035 Bovenplaat 94. r. nuud.

✓ 4036 Kolom

→ ✓ 4060 (h/m 79) en

gedelt. detail rch.

✓ 4105 kap over pedalen

✓ 4129 ?

✓ 4131 riem besch.

✓ 4132 gespreidsch. bankje

✓ 4065 h/m 62

✓ 4107 deksel boven en kolom

✓ 4108 " onder " "

PLATE 4

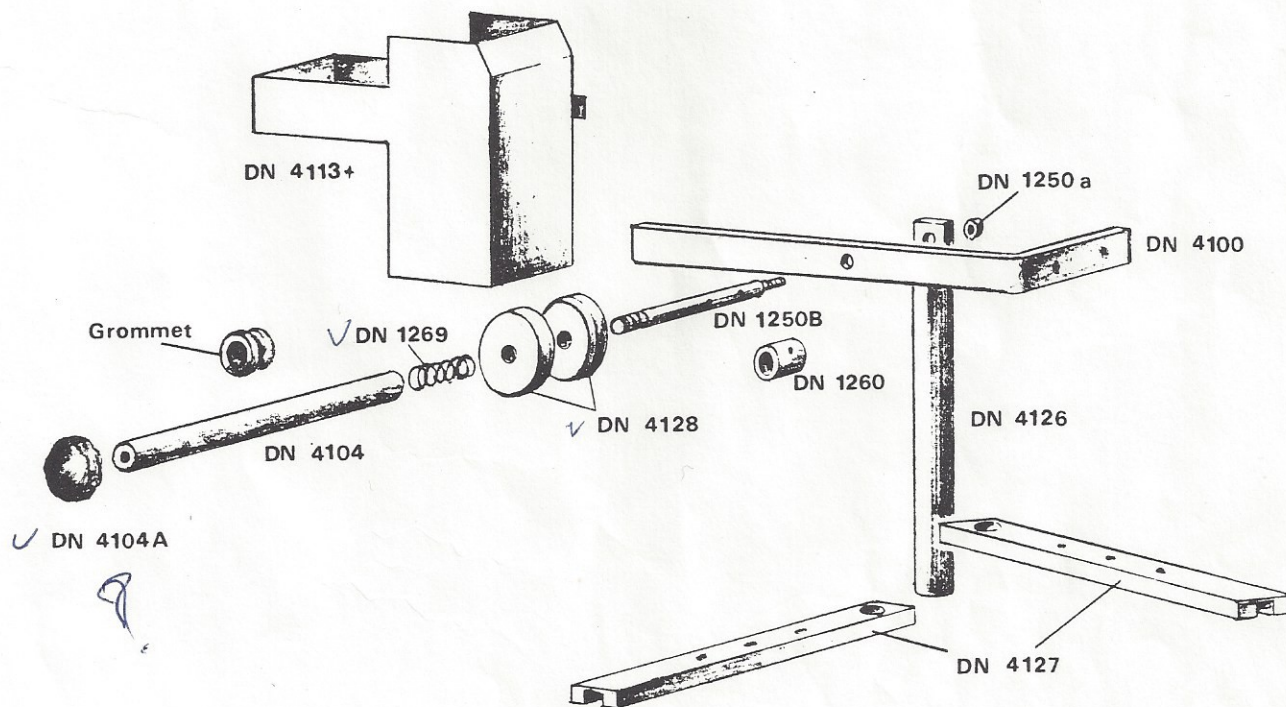
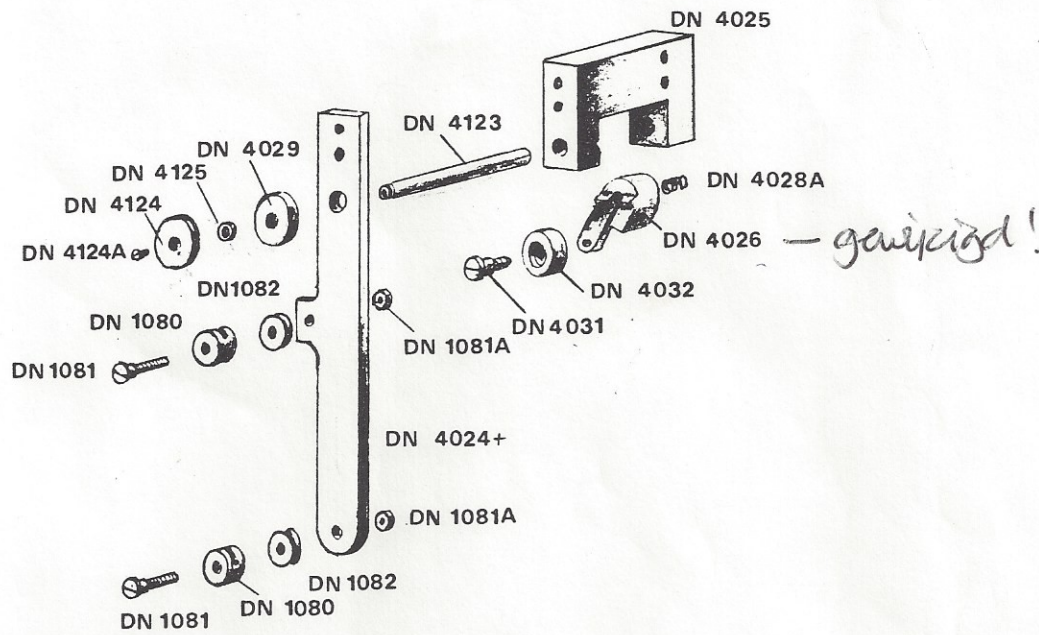


PLATE 4

✓	DN 4024+	Thread Lock Mechanism, Front Plate
✓	DN 4025	Thread Lock Mechanism Block
—	DN 4025A	Screws securing DN 4025 to DN 4026
—	DN 4025B	Screws securing DN 4025 to DN 4001
✓	DN 4026	Thread Lock Release Lever <i>aywaziqd.</i>
—	DN 4026A	Clamp Screw in DN 4026
✓	DN 4029	Clamp Spindle Spacer
—	DN 4028A	Clamp Spindle Spring
✓	DN 4031	Cam Roller Shoulder Screw
✓	DN 4032	Cam Roller
—	DN 1080	Thread Roll Cover
—	DN 1081	Thread Roll
—	DN 1081A	Nut for DN 1081
—	DN 1082	Thread Roll
✓	DN 4123	Thread Lock Shaft
✓	DN 4124	Thread Lock Front Disc.
✓	DN 4125	Thread Lock Roller
—	DN 4124A	Screw securing DN 4124 to DN 4123

✓	DN 4100	Thread Lubricating Tank Support
✓	DN 4100a	Screw for DN 4100
✓	DN 4113+	Thread Lubricating Tank
—	DN 1250B	Thread Tension Disc Shaft
—	DN 1250a	Nut for DN 1250
✓	DN 4128	Thread Tension Discs
—	DN 1269	Thread Tension Disc Spring
✓	DN 4104	Thread Tension Knob Shaft
—	DN 4104A	Tension Shaft Knob
—	DN 4104B	Screw securing DN 4104A
✓	DN 4126	Thread Feed Arm Shaft
✓	DN 4127	Thread Feed Arm
—	DN 4127a	Screws securing DN 4127
—	DN 1260	Disc Washer
—	DN 1261	Screw for DN 1260

Grommet

PLATE 5

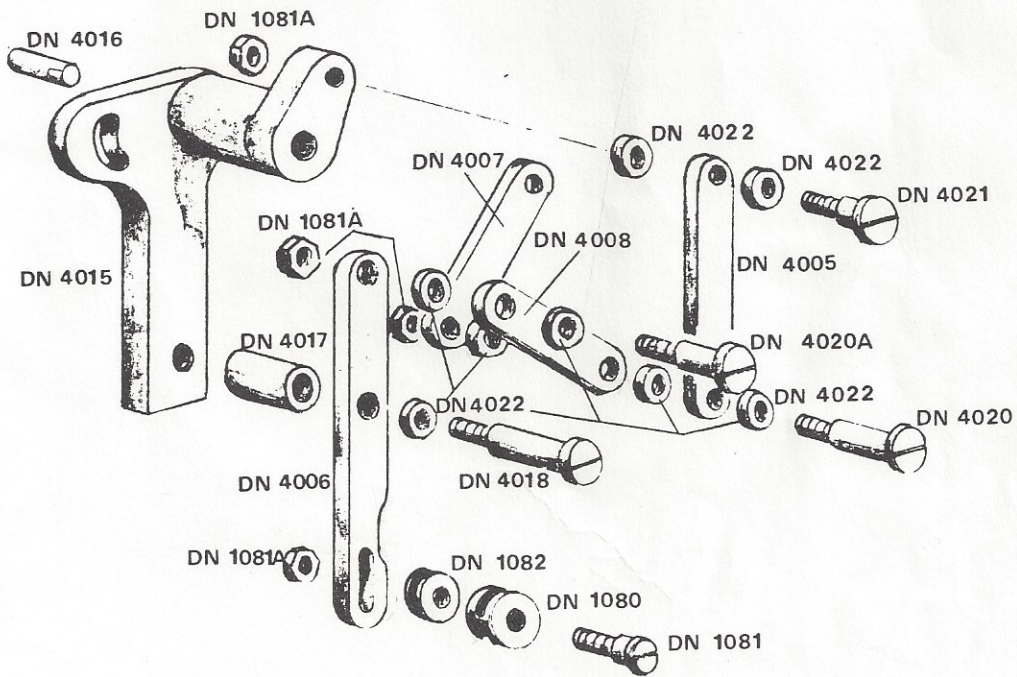
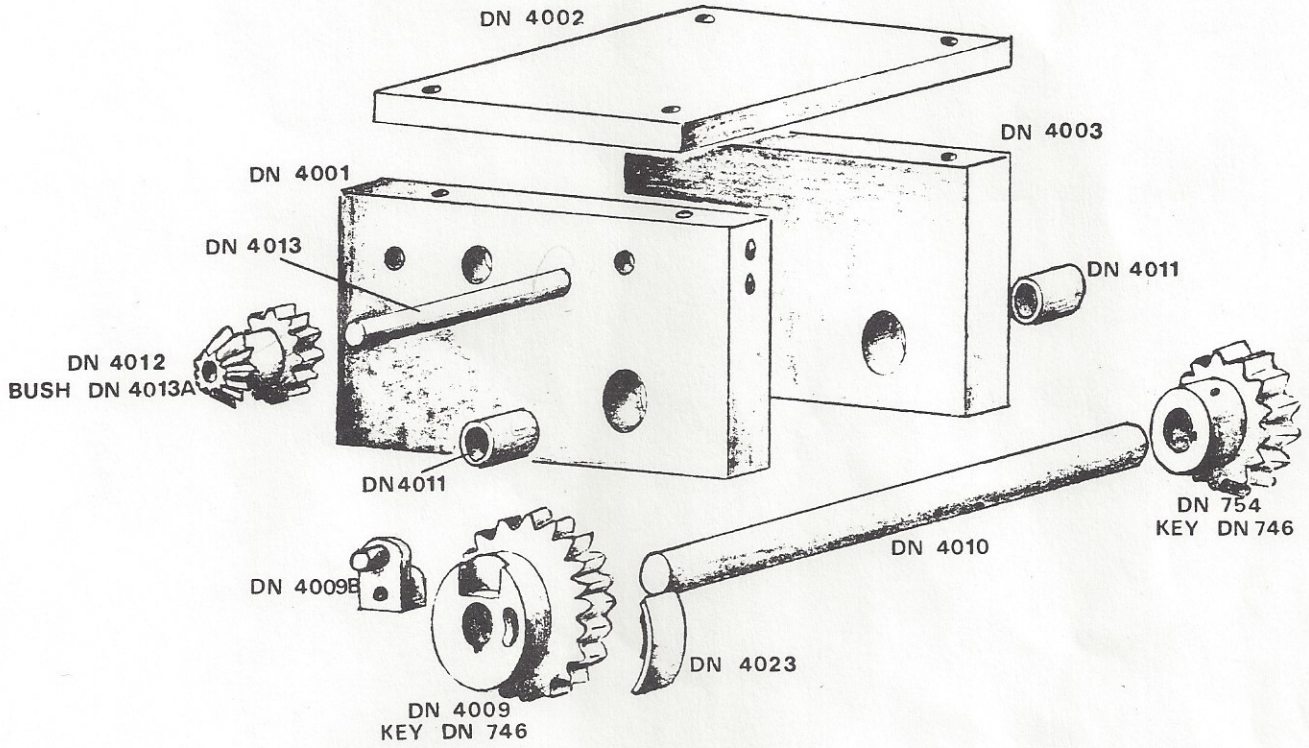


PLATE 5

- ✓ DN 4001 Front Support Plate
- ✓ DN 4002 Mid Mounting Plate
- DN 4002A Screws securing DN 4002 to DN 4001 & 4003
- DN 4002B Bolts securing DN 4002 to DN 4035
- DN 4002C Washers For DN 4002B
- ✓ DN 4003 Rear Support Plate
- ✓ DN 4005 Thread Take Up Link
- ✓ DN 4006 Thread Take Up Link
- ✓ DN 4007 Thread Take Up Link
- ✓ DN 4008 Thread Take Up Link
- ✓ DN 4009 Bottom Spur Gear
- DN 4009A Screw for DN 4009
- ✓ DN 4009B Link Drive Block
- DN 4009C Screw securing DN 4009B to DN 4009
- ✓ DN 4010 Drive Shaft
- DN 4011 Bushes in DN 4001 & DN 4003
- ✓ DN 4012 Horn Base Driver Gear
- ✓ DN 4013 Horn Base Driver Gear Stub Shaft
- DN 4013A Bush in DN 4012
- DN 4013B Screw securing DN 4013 to DN 4001

- ✓ DN 4015 Thread Take Up Adjusting Support Arm
- ✓ DN 4016 Thread Take Up Adjusting Pivot
- DN 4016A Screws securing DN 4016 to DN 4001
- ✓ DN 4017 Thread Take Up Bottom Spacer
- ✓ DN 4018 Thread Take Up Bottom Shoulder Screw
- ✓ DN 4020 Mid Link Shoulder Screw
- ✓ DN 4020A MidLink Shoulder Screw
- ✓ DN 4021 Top Link Shoulder Screw
- ✓ DN 4022 Link Spacers
- ✓ DN 4023 Thread Lock Cam
- DN 4023A Screw securing DN 4023 to DN 4009
- DN 4023B Nut for DN 4023A
- DN 730 Screw securing DN 754
- DN 746 Key for DN 754 & DN 4009
- DN 754 Bevel Gear on DN 4010
- DN 1080 Thread Roll Cover
- DN 1081 Thread Roll Stud
- DN 1081A Nut for DN 1081
- DN 1082 Thread Roll

✓ 4019 A

~~✓ 4024~~

PLATE 6

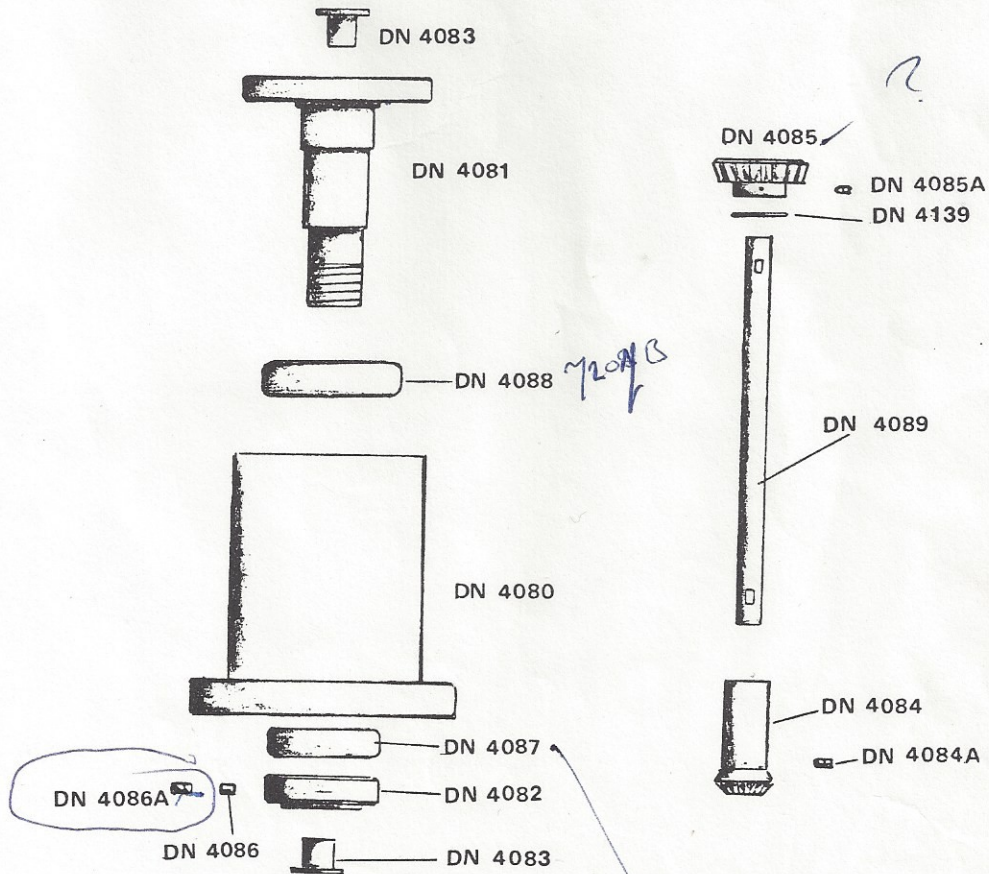
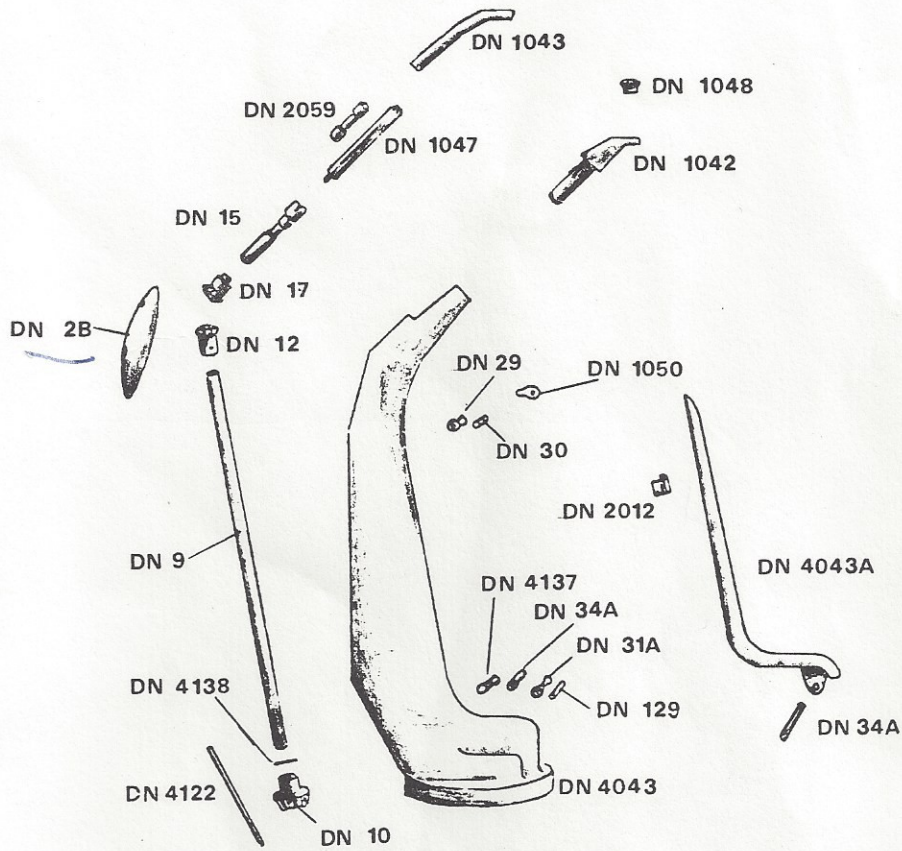


PLATE 6

✓ DN 4043	Horn, Slim Type	
DN 2059	Whirl Pinion Drive Bush.	
DN 1035A	Horn Setting Screw	
DN 1034	Horn Clamp Screw	
DN 1042	Horn Tip	45238
DN 1043	Horn Cap	45239 } 15 unterschieden angegeben
DN 22	Pin for DN 1043	
DN 28	Screw for DN 1043	
DN 1044	Screw for DN 1043	
✓ DN 4043A	Horn Front Cover	
DN 4122	Horn Back Cover	
DN 4122A	Screws for 4122	(49621?)
DN 2B	Horn Pinion Cover	
DN 2C	Dowel for DN 2B	
DN 3	Screw for DN 2B	
DN 29	Thread Roll (upper)	
DN 30	Thread Roll Stud (upper)	
DN 2012	Horn Cover Spring Clip	
DN 4137	Thread Roll (lower)	
DN 34A	Stud for DN 30 & DN 4043A	
DN 1050	Thread Clip	48371
DN 1051	Screw for DN 1050	
DN 1048	Thread Whirl	
DN 1047	Whirl Pinion	
DN 15	Whirl Pinion Drive	(1045?) wh. 54569
DN 1047A	Screw for DN 15	
DN 17	Gear for DN 15	49585
DN 1045A	Screw for DN 17	
DN 12	Whirl Drive Gear (upper)	49586
DN 10	Whirl Drive Gear (lower)	49584
DN 13	Screw for DN 12	
DN 1039	Pin for DN 10	
DN 9	Whirl Drive Gear Shaft	49615
DN 31A	Thread Roll	
DN 129	Thread Roll Stud	
DN 4138	Washer for DN 9	
✓ DN 4080	Horn Support	
✓ DN 4081	Horn Base	
DN 4081A	Jacking screws for DN 4081	
DN 4081B	Screws securing DN 4080 to DN 4035A	
✓ DN 4082	Locking Ring	
✓ DN 4083	Horn Base Bush	
✓ DN 4084	Horn Base Bottom Gear	
DN 4084A	Screws for DN 4084	

PLATE 6

- ✓ DN 4085 Whirl Gear Drive (upper)
- DN 4085A Screw for DN 4085
- ✓ DN 4086 Locking Screw Pad
- DN 4086A Screw for DN 4082
- DN 4087 Contact Bearing (lower)
- DN 4088 Contact Bearing (upper)
- ✓ DN 4089 Main Shaft
- DN 4139 Washer for DN 4089

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1498

PLATE 7

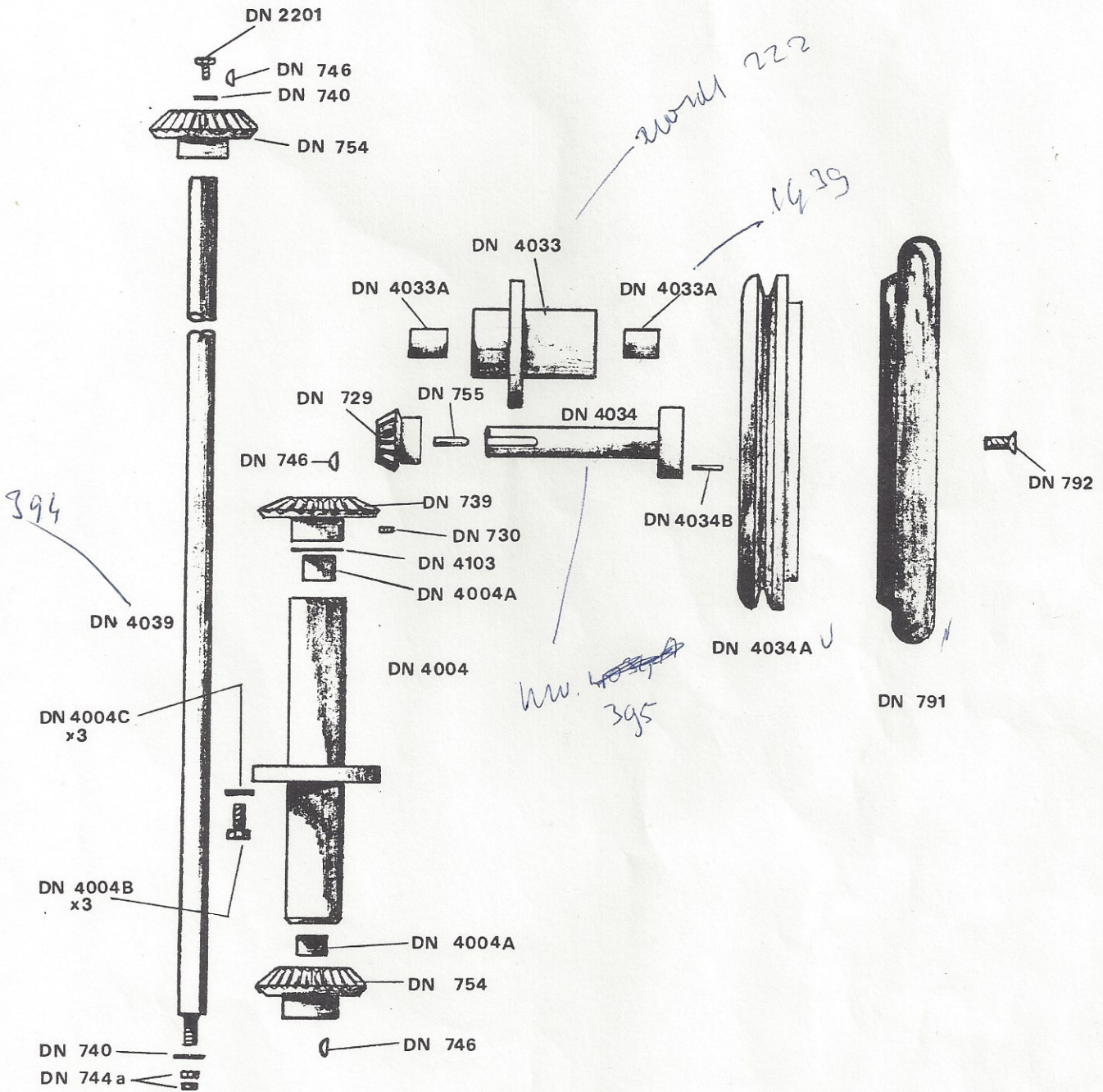


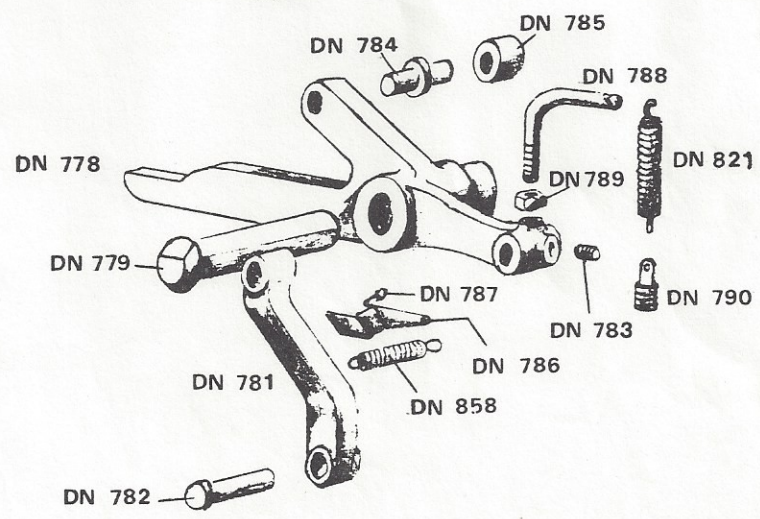
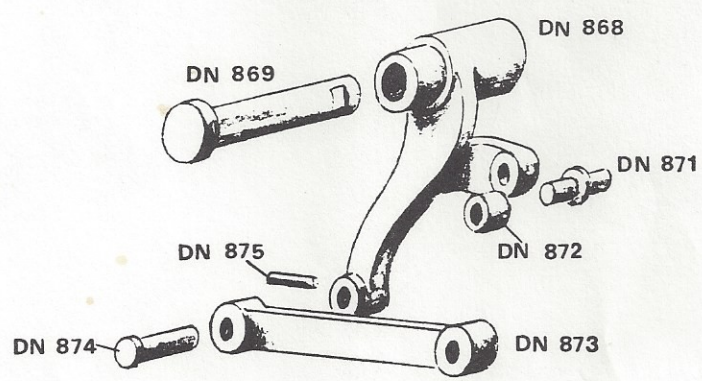
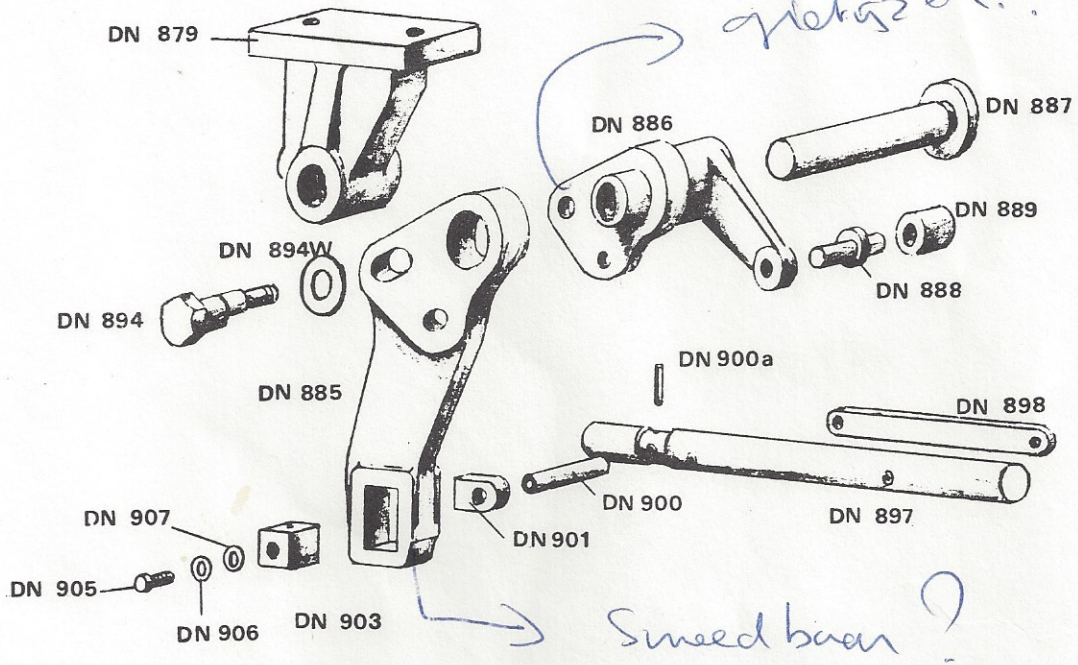
PLATE 7

- ✓ DN 4039 Main Drive Shaft
- DN 754 Main Drive Shaft Gear (lower)
- DN 746 Key for DN 754
- DN 730 Screw securing DN 754
- DN 740 Gear Washer 45951
- DN 744a Nuts for DN 4039
- DN 754 Main Drive Shaft Gear (upper)
- DN 746 Key for DN 754
- DN 754a Screw for DN 754
- DN 2201 Screw securing DN 754
- ✓ DN 4004 Main Shaft Support Housing
- DN 4004A Bushes for DN 4004
- DN 4004B Screws securing DN 4004 to 4035
- DN 4004C Washers for DN 4004B
- DN 739 Main Drive Shaft Gear 45230
- DN 746 Key For DN 739
- DN 730 Screws for DN 739 als de twee een vierkant schroef is dan rekening 46401
- ✓ DN 4103 Back shaft Spacer

✓ 41122 deksel 

- ✓ DN 4034A Handwheel
- DN 791 Handwheel Rim
- DN 792 Screws securing DN 791
- ✓ DN 4034 Handwheel Shaft
- DN 4034B Pin for DN 4034A
- DN 755 Key for DN 4034
- DN 729 Handwheel Gear 45229
- DN 729a Screw for DN 729
- ✓ DN 4033 Handwheel Support
- DN 4033A Bushes for DN 4033
- DN 4033B Screws securing DN 4033 to DN 4036

PLATE 8



836

PLATE 8

DN 898	Shuttle Drive Rack	43514	
DN 897	Shuttle Drive Shaft	44223	
DN 904	Screws securing DN 904 to DN 898		
DN 904a	Washer for DN 904		
DN 903	Shaft Slide Block		
DN 901	Slide Block Spacer	43451	
DN 900	Slide Block Fulcrum		
DN 900a	Pin securing DN 900 to DN 897		
DN 905	Slide Block Retaining Screw		
DN 906	Washer for DN 905		
DN 907	Star Washer for DN 905		
DN 879	Cam Lever Bracket	45184	
DN 879A	Dowel for DN 879		
DN 880	Screws for DN 879		
DN 881	Washer for DN 879		
DN 881A	Star Washer for DN 879		
DN 885	Shuttle Drive Cam Lever	45188	
DN 886	Cam Lever Carrier	45186	
DN 894	Carrier Eccentric	45662	
DN 894W	Washer for DN 894		
DN 893	Nut For DN 894		
DN 893a	Washer for DN 894		
DN 890	Screw for DN 885		
DN 890a	Washer for DN 885		
DN 887	Cam Lever Carrier Pin	45267	
DN 883	Screw for DN 887		
DN 889	Cam Roll		
DN 888	Cam Roll Stud		
DN 868	Presser Foot Cross Slide Cam	45184	
DN 869	Cam Lever Pin	45227	
DN 870	Screw for DN 869		
DN 872	Cam Roll		
DN 871	Cam Roll Stud		
DN 873	Cross-slide Lever	45193	
DN 874	Lever Pin	52607	
DN 875	Pin for DN 874		
DN 778	Presser Foot Rise & Fall Cam Lever	47367	(conroller)
DN 778a	Stop Screw for DN 778		
DN 778b	Nut for DN 778a		
DN 779	Cam Lever Pin	45204	
DN 780	Screw for DN 779		
DN 784	Cam Roll Stud		
DN 785	Cam Roll		

PLATE 8

DN 821	Cam Lever Spring	45555
DN 790	Spring Anchor in DN 702	45226
DN 788	Spring Anchor in DN 778	45206
DN 789	Nut for DN 788	
DN 781	Rise & Fall Lever	45192
DN 782	Lever Pin	52608
DN 783a	Screw for DN 782	
DN 858	Lever Spring	48807
DN 786	Spring Anchor	44902
DN 787	Screw for DN 786	
836	hook w persivet latching	45208

PLATE 9

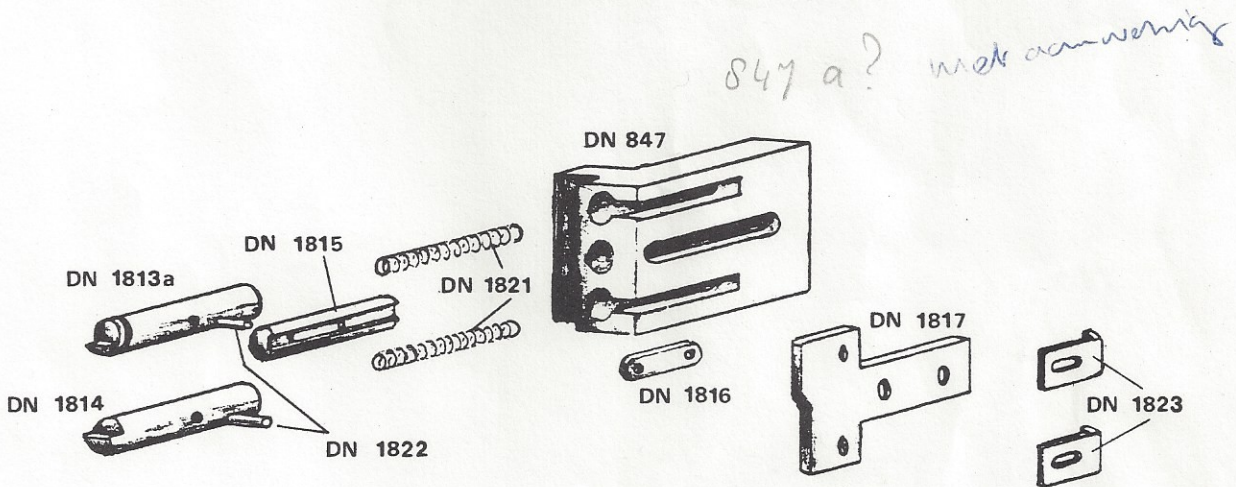
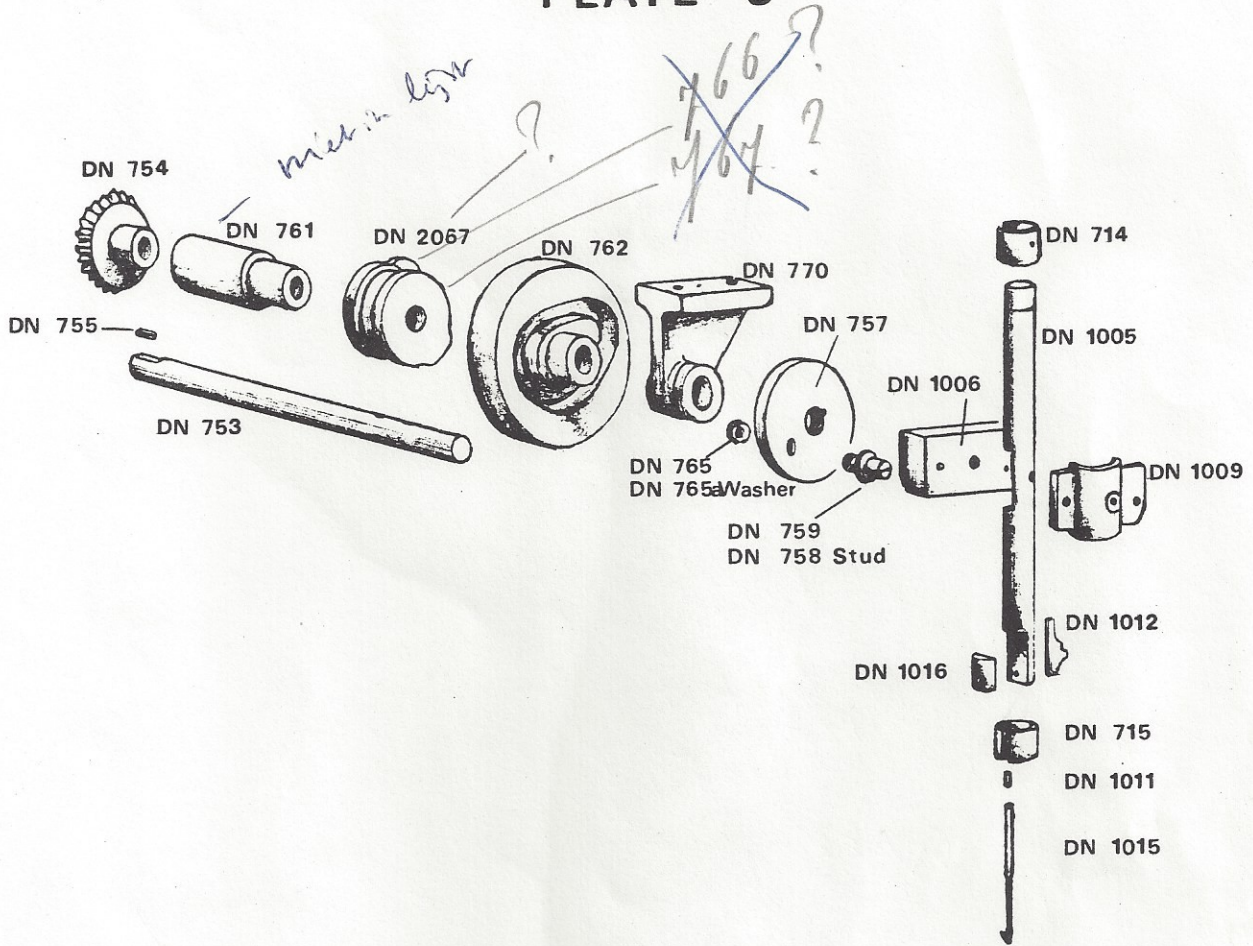
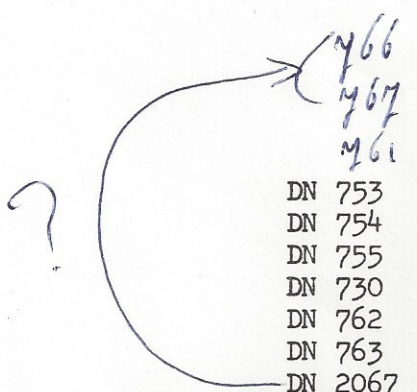


PLATE 9



	kurve	45245 + R 45245
	"	45244
	brus achtern kop	45222
DN 753	Mainshaft	45203
DN 754	Mainshaft Drive Gear	45224
DN 755	Key for DN 754	45983 (with controller)
DN 730	Screw securing DN 754 to DN 753	
DN 762	Shuttle Cam	32033
DN 763	Pin for DN 762	
DN 2067	Presser Foot Cam	
DN 2067a	Presser Foot Cam Washer	
DN 757	Needle Cam	45202
DN 760	Pin for DN 757	
DN 746	Main Shaft Cam Key	
DN 759	Needle Cam Roll	45214
DN 758	Cam Roll Stud	(? 466) (54565) 45215 ?
DN 765	Nut for DN 758	
DN 765a	Washer for DN 758	
DN 770	Mainshaft Bracket	45183
DN 773	Screw for DN 770	
DN 772	Washers for DN 770	
DN 1005	Needle Bar	33070
DN 714	Needle Bar Bush (upper)	
DN 715	Needle Bar Bush (lower)	
DN 1006	Needle Bar Cam Block	41610
DN 1009	Holding Plate	45216
DN 1010	Screws securing DN 1009 to DN 1006	
DN 1007	Screws securing DN 1009 to DN 1006	
DN 1008	Nut for DN 1007	
DN 1017	Washer for DN 1007	
DN 1016	Needle Calmp	44237
DN 1015	Needle No 6	
DN 1014	Screw securing DN 1016 to DN 1005	
DN 1011	Needle Stop	48173
DN 1019	Screw for DN 1011	
DN 1012	Needle Bar Cam Piece	60163
DN 1013	Pins for DN 1012	
DN 1813a	Pawl (upper)	48312
DN 1814	Pawl (lower)	48454
DN 847	Pawl Block	47086 (+ 47007)
DN 848	Screws for DN 847	
DN 1821	Pawl Spring	44408
DN 1815	Pawl Slide Piece	47367
DN 1816	Spacer	47366
DN 1817	Pawl Cam Piece	47249
DN 1818	Screws for 1817	
DN 1819	Washers for 1817	
DN 1825	Washers for DN 1817	
DN 1823	Pawl Setting Piece	48105
DN 1824	Screw for DN 1824	
DN 1825	Washer for 1824	
DN 1826	Star Washers for DN 1824	
DN 1822	Pawl Stud	

PLATE 10

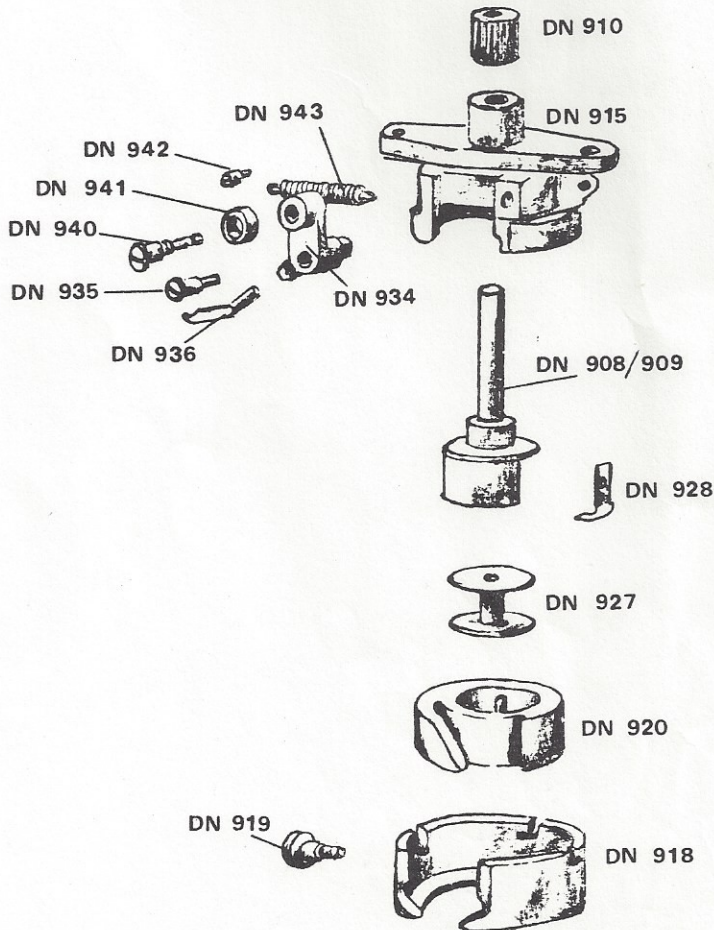
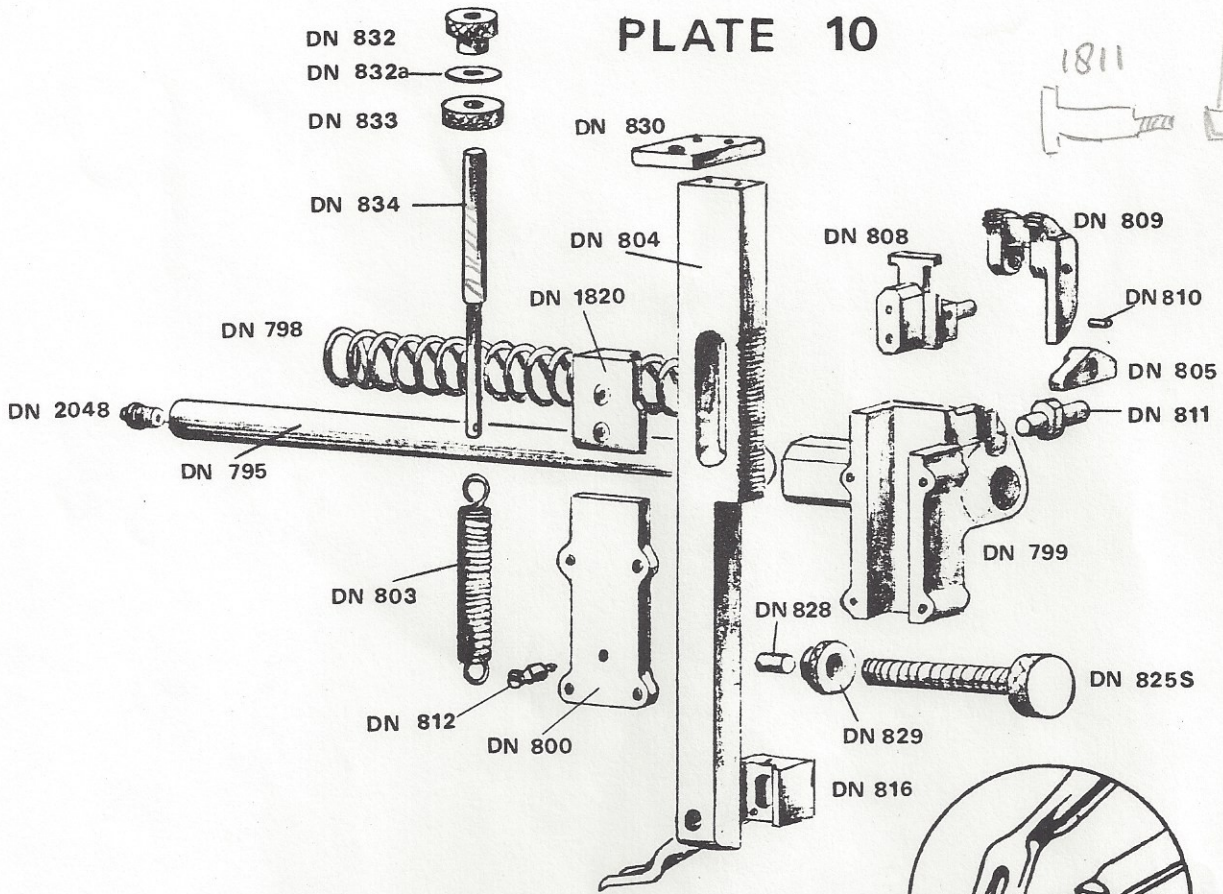


PLATE 10



433 *glysmick persvot stang* 45228

- | | | |
|----------|---|-------|
| 815 | <i>persvot</i> | 44229 |
| DN 816 | Presser Foot (serrated) | 41512 |
| DN 817 | Presser Foot Setting Screw (Horizontal) | |
| DN 820 | Presser Foot Setting Screw (Vertical) | |
| DN 819 | Screw for DN 816 | |
| DN 819a | Washer for DN 816 | |
| DN 804 | Presser Foot Bar | 32021 |
| DN 799 | Presser Foot Bar Carrier | 30831 |
| DN 801 | Screw securing DN 800 to DN 799 | |
| DN 802 | Washer for DN 801 | |
| DN 809 | Presser Foot Bar Pawl | 44209 |
| DN 822 | Pin for DN 809 | |
| DN 823 | Screw for DN 822 | |
| DN 808 | Pawl Block | 44205 |
| DN 1820 | Pawl Cam Piece | 47248 |
| DN 1820a | Washer for DN 1820 | |
| DN 814 | Screw for DN 1820 | |
| DN 805 | Pawl Release Cam | 48104 |
| DN 807 | Screws for DN 805 | |
| DN 807a | Washer for DN 805 | |
| DN 803 | Presser Foot Spring | 52703 |
| DN 812 | Presser Foot Spring Pin in DN 800 | 52718 |
| DN 810 | Presser Foot Spring Pin in DN 809 | 44702 |
| DN 834 | Presser Foot Spring Anchor | 45085 |
| DN 833 | Spring Anchor Nut. | |
| DN 832 | Locknut for DN 833 | 50674 |
| DN 832a | Washer for DN 833 | |
| DN 830 | Spring Anchor Plate | 45084 |
| DN 831 | Screws for DN 830 | |
| DN 811 | Pivot Pin | 52609 |
| DN 795 | Presser Foot Shaft | 45225 |
| DN 798 | Presser Foot Shaft Spring | 52704 |
| DN 2048 | Shaft Greaser | |
| 800 | <i>plant v persv stang</i> | 41928 |

- | | | |
|------------|--------------------------|-----------------|
| 945 | <i>arje in schmitje</i> | 47200 |
| DN 920 | Shuttle | 30829 |
| DN 908/909 | Shuttle Driver/Shaft | 54568 + 41511 |
| DN 910 | Shuttle Driver Gear | 44224 |
| DN 911 | Pins for DN 909 & DN 910 | |
| DN 915 | Shuttle Holder | 32968 (32020) ? |
| DN 916 | Screw securing DN 915 | |
| DN 918 | Shuttle Housing | 60208 (41510) |
| DN 917 | Pin in DN 918 | |
| DN 919 | Housing Clamp Screw | 44342 |
| DN 928 | Thread Splitter | |
| DN 929 | Screw for DN 928 | |
| - DN 936 | Thread Lifter | 53065 |

825 *stakvolschr.* 54569
 828 *aanvraag* 53186
 829 *inver* 52736 Con't

PLATE 10

DN 935 Thread Lifter Lever Stud 45237.
DN 934 Thread Lifter Lever 45223
DN 937 Screw for DN 936
✓ DN 940 Cam Roll Stud 52063
DN 941 Thread Lifter Lever Cam Roll 51247
DN 942 Spring Anchor 53187
DN 943 Thread Lifter Lever Spring 54560
DN 927 Bobbin

1810 hefboom v. penn. lichten 47345
1811 bout voor 1810 47346

PLATE 11

- ✓ DN 4050 Bobbin Winder Bracket
- DN 4050A Screws securing DN 4050 to DN 4035
- ✓ DN 4051 Bobbin Winder Lever
- DN 4051A Pin for 4051
- DN 4051B Grub Screw for DN 4051A
- ✓ DN 4052 Bobbin Winder Drive Pulley Spindle
- ✓ DN 4053 Bobbin Winder Shaft
- ~~✓~~ DN 4054+ Bobbin Drive Collar Pulley
- ✓ DN 4055 Bobbin Winder Engagement Lever
- DN 2046 Knob for DN 4055
- ✓ DN 4056 Bobbin Clamp Nut
- ✓ DN 4057 Drive Pulley
- DN 4057A Screw securing DN 4057 to 4050
- ✓ DN 4114 Spring Bracket
- DN 4116 Spring
- DN 4119 Screw securing DN 4050
- DN 4120 Washer for DN 4119
- DN 4121 Nut for DN 4119

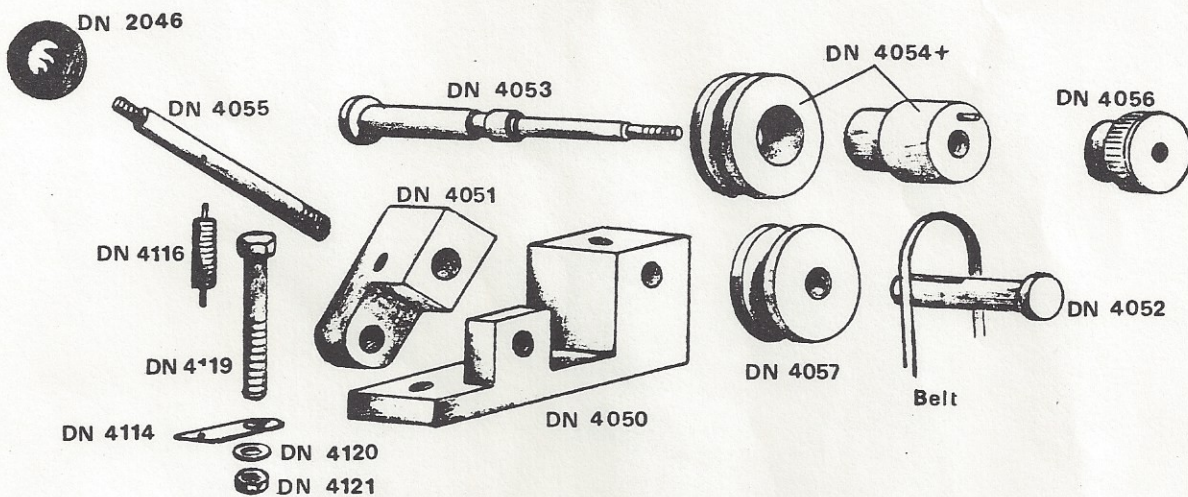
✓ 4115 Bobbin Winder Belt (Redthane)
↳ dehsel.

✓ 4053 A

✓ 4054

✓ 4054 A

PLATE 11



Rekibel ?