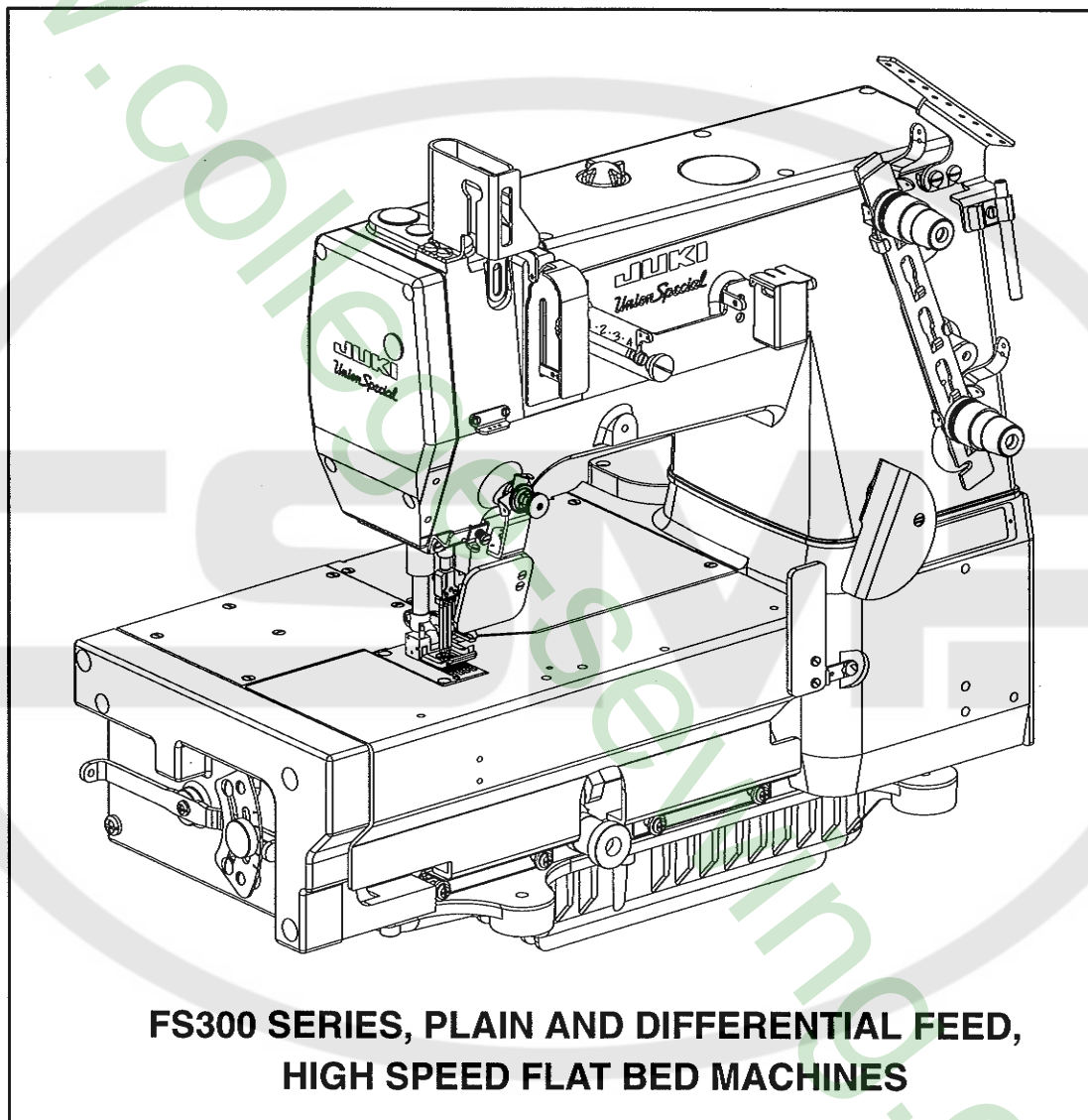




Union Special

INDUSTRIAL SEWING EQUIPMENT

OPERATOR / ILLUSTRATED PARTS MANUAL



MANUAL NO. PT9605
FOR STYLES

FS311S01	FS311S13
FS311S02	FS311S14
FS311S11	FS311S21
FS311S12	

Manual No. PT9605 Illustrated Parts List for FS300 Series Machines

Second Edition Copyright 1998

By

Union Special Corporation Rights Reserved In All Countries

Printed in U.S.A. Sept. 1998

PREFACE

This parts manual has been prepared to assist you in locating individual parts or assemblies on FS300 Series machines. It can be used in conjunction with Union Special Engineer's Manual EN9424.

It is the desire of Union Special that each machine run at its optimum performance. Parts listed in this manual are designed specifically for your machine and are manufactured with utmost precision to assure long lasting service.

This manual has been comprised on the basis of available information. Changes in design and/or improvements may incorporate a slight modification of configuration in illustrations or part numbers.

On the following pages are illustrations and terminology used in describing the parts used on FS300 Series machines.



CONTENTS

PREFACE	2
IDENTIFICATION OF MACHINES	4
CLASS DESCRIPTION	4
STYLE OF MACHINES	4
ILLUSTRATIONS	5
IDENTIFYING PARTS	5
NEEDLES	5
SAFETY RULES	6
CAUTION AREAS:	8
OPERATOR'S DAILY CHECK LIST:	9
OPERATING CAUTIONS:	9
OPERATING CAUTIONS (CONT.):	10
OPERATING THE PEDALS:	10
LUBRICATION:	11
THREADING THE MACHINE:	12
THREADING THE MACHINE (CONT.):	13
THREADING THE MACHINE (CONT.):	14
THREADING MEDTHODS	14
ADJUSTING THE STITCH LENGTH:	15
PRESSER FOOT PRESSURE AND LIFTER:	15
BUSHINGS	17
NEEDLE BAR	19
UPPER MAIN SHAFT	21
THREAD GUIDE	23
TENSION RELEASE & THREAD TENSION	25
PRESSER FOOT LIFT	27
COVERS, UPPER ARM	29
LOWER MAIN SHAFT	31
LUBRICATION, OIL TUBING & OIL PUMP	33
LOOPER DRIVE	35
NEEDLE GUARD	37
LOOPER THREAD TAKE-UP	39
FEED DRIVE MECHANISM FOR PLAIN FEED	41
FEED DRIVE MECHANISM FOR DIFFERENTIAL FEED	43
FEED DRIVE MECHANISM FOR PLAIN FEED	45
FEED DRIVE MECHANISM FOR DIFFERENTIAL FEED	47
COVERS, LOWER BED	49
COVERS, LOWER BED FOR PLAIN FEED	51
COVERS, LOWER BED FOR DIFFERENTIAL FEED	53
SEWING PARTS	55
TABLING AND NEEDLE DIPPER ASSEMBLY (EXTRA SEND CHARGE)	57
ACCESSORIES	59
NUMERICAL INDEX OF PARTS	60
NUMERICAL INDEX OF PARTS	61
NOTES	62
NOTES	63



IDENTIFICATION OF MACHINES

Each UNION SPECIAL machine is identified by a style number, which is stamped into the style plate affixed to the middle of the machine under the tension assembly. The serial number is stamped into the serial number plate affixed to the right rear base of the machine.

CLASS DESCRIPTION

Precision high speed, single needle, plain or differential feed flat bed machines. Totally enclosed feed and looper drive mechanism, automatic forced feed lubrication system with easily replaceable filter. Main feed has thumbscrew adjustment and differential feed has lever adjustment and independently driven rear needle guard.

STYLE OF MACHINES

FS311S01-1M	SEAMER. One needle, plain feed, medium capacity. Needle thread ratio index furnished. - Typical Application - For seaming side and inseams on work and dress pants. Seam Specifications 401SSa-1. Recommended needle 128 GBS sizes 075/029 - 090/036. Stitch range 7-10 S.P.I.. Maximum recommended speed 6500 R.P.M..
FS311S01-1MCC2	SEAMER. Same as style FS311S01-1M, except with Power "Air Klipp" Chain Cutter.
FS311S02-1M	SEAMER. Same as style FS311S01-1M, except foot with left yielding section. - Typical Application - For side-seaming trousers when crossing front pockets.
FS311S02-1MCC2	SEAMER. Same as style FS311S02-1M, except with Power "Air Klipp" Chain Cutter.
FS311S11-1M	"FEEDING FOOT" SEAMER. Same as style FS311S01-1M, except with "Feeding Foot". - Typical Application - For seaming trousers, coats etc..
FS311S11-1MCC2	"FEEDING FOOT" SEAMER. Same as style FS311S11-1M, except with Power "Air Klipp" Chain Cutter.
FS311S12-1M	"FEEDING FOOT" SEAMER. Same as style FS311S11-1M, except foot with left yielding section. - Typical Application - For side-seaming trousers when crossing front pockets.
FS311S12-1MCC2	"FEEDING FOOT" SEAMER. Same as style FS311S12-1M, except with Power "Air Klipp" Chain Cutter.
FS311S13-1M	"FEEDING FOOT" SEAMER. Same as style FS311S11-1M, except with NARROW "FEEDING FOOT". - Typical Application - For seaming trousers, coats, panels for baseball caps and similar operations. Recommended needle 128 GBS sizes 070/027 - 080/032.
FS311S13-1MCC2	"FEEDING FOOT" SEAMER. Same as style FS311S13-1M, except with Power "Air Klipp" Chain Cutter.
FS311S14-1M	"LOW INERTIA FOOT" SEAMER. Same as style FS311S01-1M, except "Low Inertia" presser foot. - Typical Application - For seaming side and inseam trousers.
FS311S14-1MCC2	"LOW INERTIA FOOT" SEAMER. Same as style FS311S14-1M, except with Power "Air Klipp" Chain Cutter.
FS312S21-1M	DIFFERENTIAL FEED "LOW INERTIA FOOT" SEAMER. Same as style FS311S14-1M, except tandem differential feed.
FS312S21-1MCC2	DIFFERENTIAL FEED "LOW INERTIA FOOT" SEAMER. Same as style FS312S21-1M, except with Power "Air Klipp" Chain Cutter.



ILLUSTRATIONS

This manual has been arranged to simplify ordering repair parts. Exploded views of various sections of the mechanism are shown so that the parts may be seen in their actual position in the machine. On the page opposite the illustration will be found a listing of the parts with their part numbers, description and the number of pieces required in the particular view being shown.

Numbers in the first column are reference numbers only, and merely indicate the position of the part in the illustration. The reference number should never be used in ordering parts. Always use the part number listed in the second column.

Component parts of sub-assemblies which can be furnished for repairs are indicated by indenting their descriptions under the description of the main sub-assembly. As an example refer to the following text.

5.	50366B	Needle Thread Strike-Off Assembly	1
6.	50358V	Needle Thread Strike-Off	1
7.	50370F	Thread Strike-Off Component	1
8.	SS7060310SP	Screw, for plate strike-off	1

When a part is common to all machines covered in this manual, no specific usage will be mentioned in the description. However, when the parts for the various machines are not the same, the specific usage will be mentioned in the description and, if necessary, the difference will be shown in the illustration.

*Ref. No. showing no Part No. is for location only. Part is not for sale separately.

A numerical index of all the parts shown in this manual is located at the back. This will facilitate locating the illustration and description when only a part number is known.

IDENTIFYING PARTS

Where construction permits, each part is stamped with its part number. On some of the smaller parts and on those where construction does not permit, an identification letter is stamped in to distinguish the part from similar ones.

PLEASE NOTE: Part numbers represent the same part, regardless of which manual they appear. On all orders please include part number, name and style of machine for which the part was ordered.

For optimum performance use only genuine Union Special replacement parts.

NEEDLES

Each needle has both a type and size number. The type number denotes the kind of shank, point, length, groove, finish and other details. The size number, stamped on the needle shank, denotes the largest diameter of the blade measured between the shank and the eye. Collectively, the type number and size number represent the complete symbol which is given on the label of all needles packed and sold by Union Special.

TYPE

DESCRIPTION

128 GBS	Short, double groove, struck groove, ball eye, spotted, ball point, chromium plated- Sizes available 070/027, 075/029, 080/032, 090/036.
---------	--

When changing the needle, make sure it is fully inserted in the needle holder before the screw is tightened.

When ordering needles, please use the complete type and size numbers as printed on the package to ensure prompt and accurate processing of your order. A complete order should read as follows: "100 needles, type 128 GBS, size 075/029".



SAFETY RULES

1. Before putting the machines described in this manual into service, carefully read the instructions. The starting of each machine is only permitted after taking notice of the instructions and by qualified operators.

IMPORTANT! Before putting the machine into service, also read the safety rules and instructions from the motor supplier.

2. Observe the national safety rules valid for your country.
3. The sewing machines described in this instruction manual are prohibited from being put into service until it has been ascertained that the sewing units which these sewing machines will be built into, have conformed with the EC Council Directives (89/392/EEC, Annex II B).

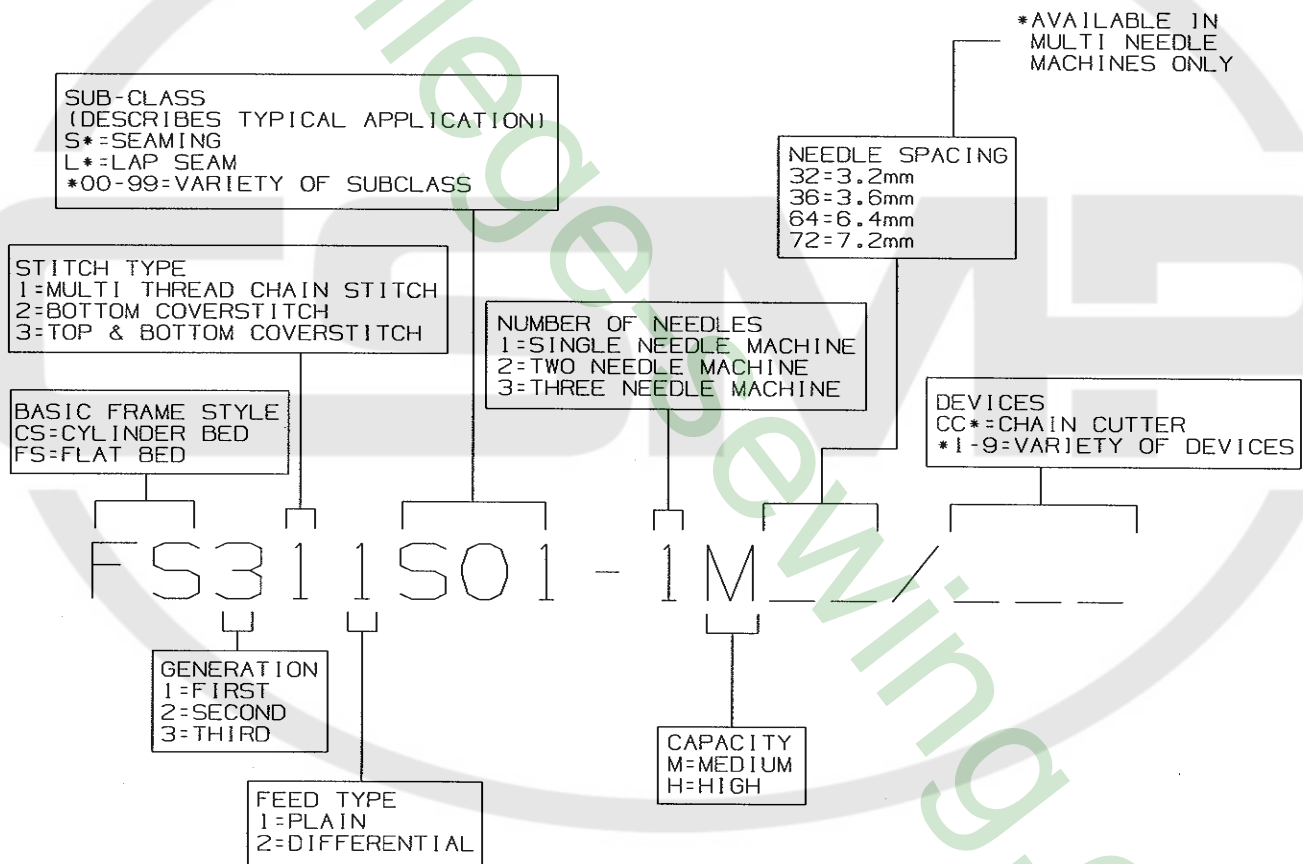
Each machine is only allowed to be used as foreseen. The foreseen use of the particular machine is described in paragraph "STYLES OF MACHINES" of this instruction manual. Another use, going beyond the description, is not as foreseen.

4. All safety devices must be in position when the machine is ready for work or in operation. Operation of the machine without the appertaining safety devices is prohibited.
5. Wear safety glasses.
6. In case of machine conversions and changes all valid safety rules must be considered. Conversions and changes are made at your own risk.
7. The warning hints in the instructions are marked with one of these two symbols:

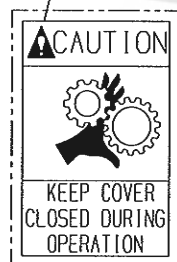
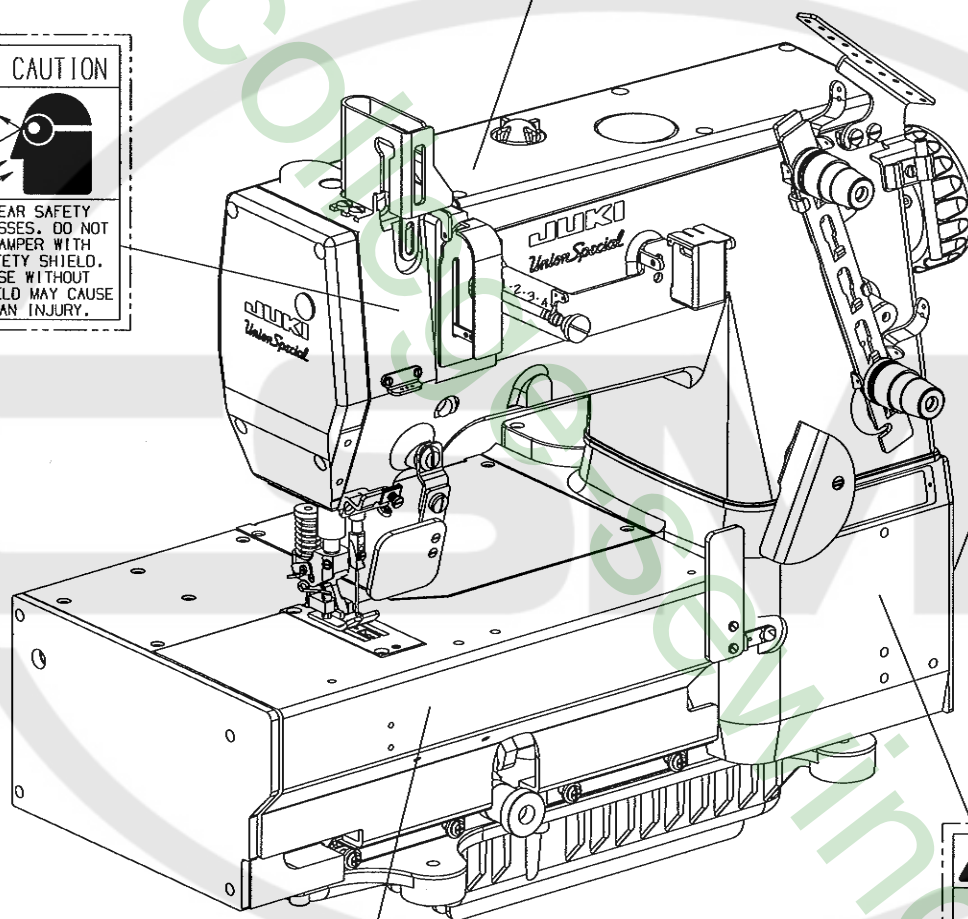
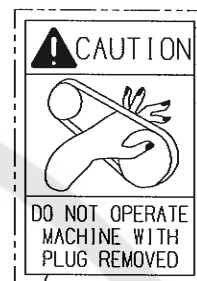


8. When doing the following the machine has to be disconnected from the power supply by turning off the main switch or by pulling out the main plug:
 - 8.1 When threading needle(s), looper, spreader etc.
 - 8.2 When replacing any parts such as needle(s), presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, fabric guide etc.
 - 8.3 When leaving the workplace and when the workplace is unattended.
 - 8.4 When doing maintenance work.
 - 8.5 When using clutch motors without actuation lock, wait until the motor is stopped totally.
9. Maintenance, repair and conversion work (see item 8) must be done only by trained technicians or special skilled personnel under consideration of the instructions.
10. Any work on the electrical equipment must be done by an electrician or under direction and supervision of special skilled personnel.
11. Work on parts and equipment under electrical power is not permitted. Permissible exceptions are described in the applicable sections of standard sheet DIN VDE 0105.
12. Before doing maintenance and repair work on the pneumatic equipment, the machine has to be disconnected from the compressed air supply. In case of existing residual air pressure, after disconnecting from compressed air supply (i.e. pneumatic equipment with air tank), the pressure has to be removed by bleeding.

FS300 SERIES BUILDING BLOCK STYLE DESIGNATION SYSTEM



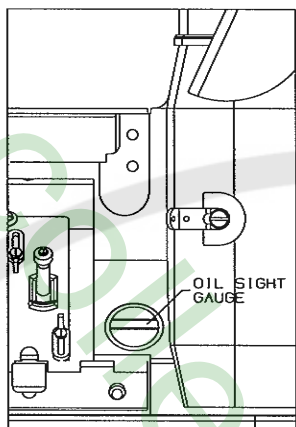
CAUTION AREAS:



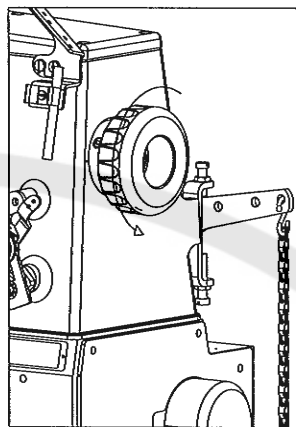
OPERATOR'S DAILY CHECK LIST:

The following should be checked daily and cleaned as required when it applies to your Union Special machine:

- Oil flow
- Oil level
- Lint area (clean with compressed air or brush)
- Needle bar bushings
- Under feed dogs & throat plates
- In knives
- In thread control eyelets
- Cooling airways
- In the machine
- In the motor
- In the cooling package
(package is an extra send charge)

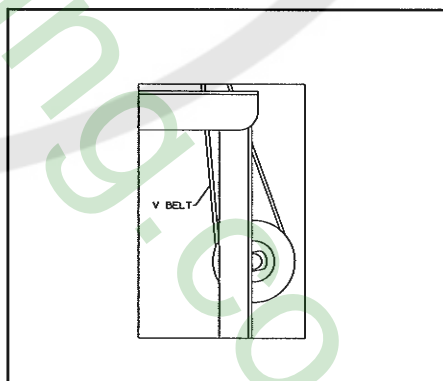
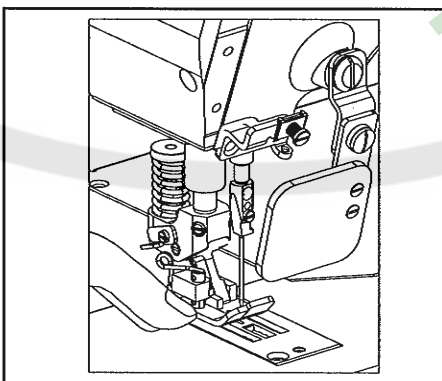
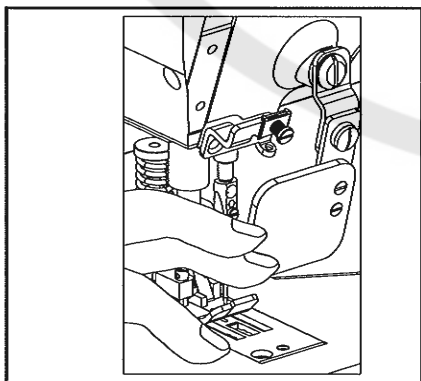


1. The oil level in the sight gauge should be between the two red lines when the machine is at rest. If not, fill with Union Special Specification 175 oil, (Union Special Part No. 28604R).



2. The correct rotating direction of the handwheel is counterclockwise, as viewed from the handwheel's side. NEVER run the machine in reverse direction.

OPERATING CAUTIONS:



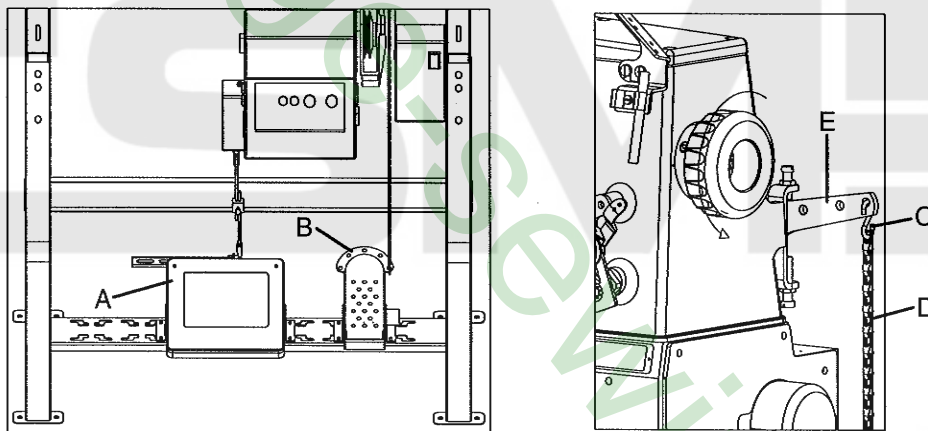
1. Do not put your hand under the needles when turning on the power switch or at any time.
2. Do not put your hand into the sewing area while the machine is running.
3. Turn off the power switch and make sure the clutch motor is at rest before removing the V belt.

OPERATING CAUTIONS (CONT.):



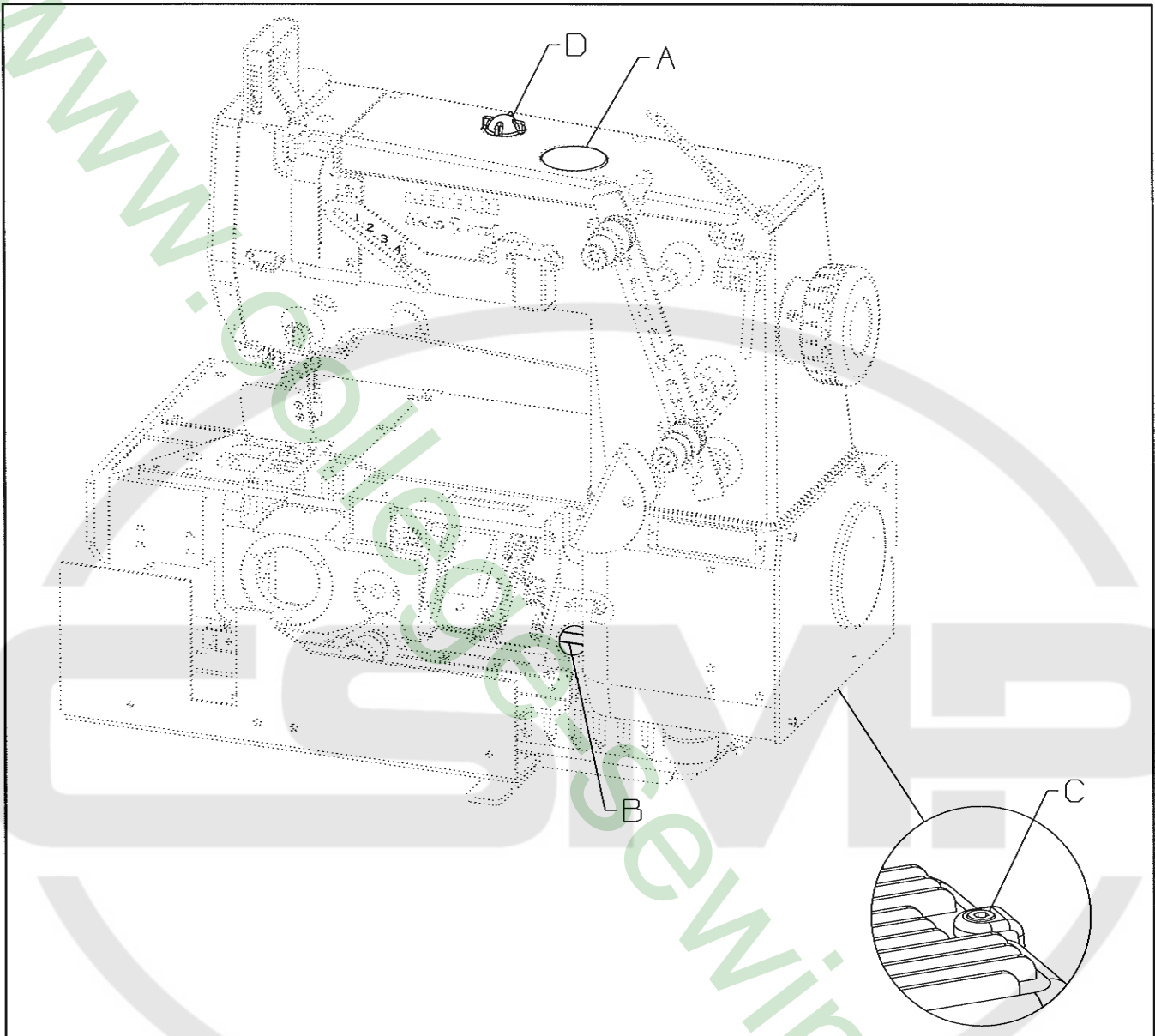
4. During operation, do not allow head, hands or any instrument, tool etc. near handwheel, V belt and motor.
5. Do not operate your machine without the proper belt guard, sewing guards or any other protectors that have been provided. Doing so is very dangerous.
6. Before inspecting, adjusting, cleaning, threading the head or replacing needles, turn OFF the power switch. Make sure the flywheel on the motor has stopped, it will be kept running by inertia after turning OFF the power switch. DO NOT depress the foot pedal while the machine is running or it will cause the machine to rotate abruptly.
7. Turn OFF the power switch when you leave your machine or in case of a power failure.
8. Do not wipe the machine surface with lacquer thinner.

OPERATING THE PEDALS:



1. Locate the center of drive treadle (A) to be in line with the needles.
2. Locate presser lifter pedal (B) for operator comfort.
3. Use S-shaped hook (C) to connect presser lifter pedal chain (D) to presser lifting lever (E).

LUBRICATION:



The oil should be between the two red lines in sight gauge (B) when the machine is at rest.

1. If oil is required remove oil cap (A).
2. Fill between lines (B) with Union Special Specification 175 oil (Union Special Part No. 28604R).



CAUTION! Do not exceed the upper red marker line. Excessive oil in the machine will result in oil leakage and possible overheating.

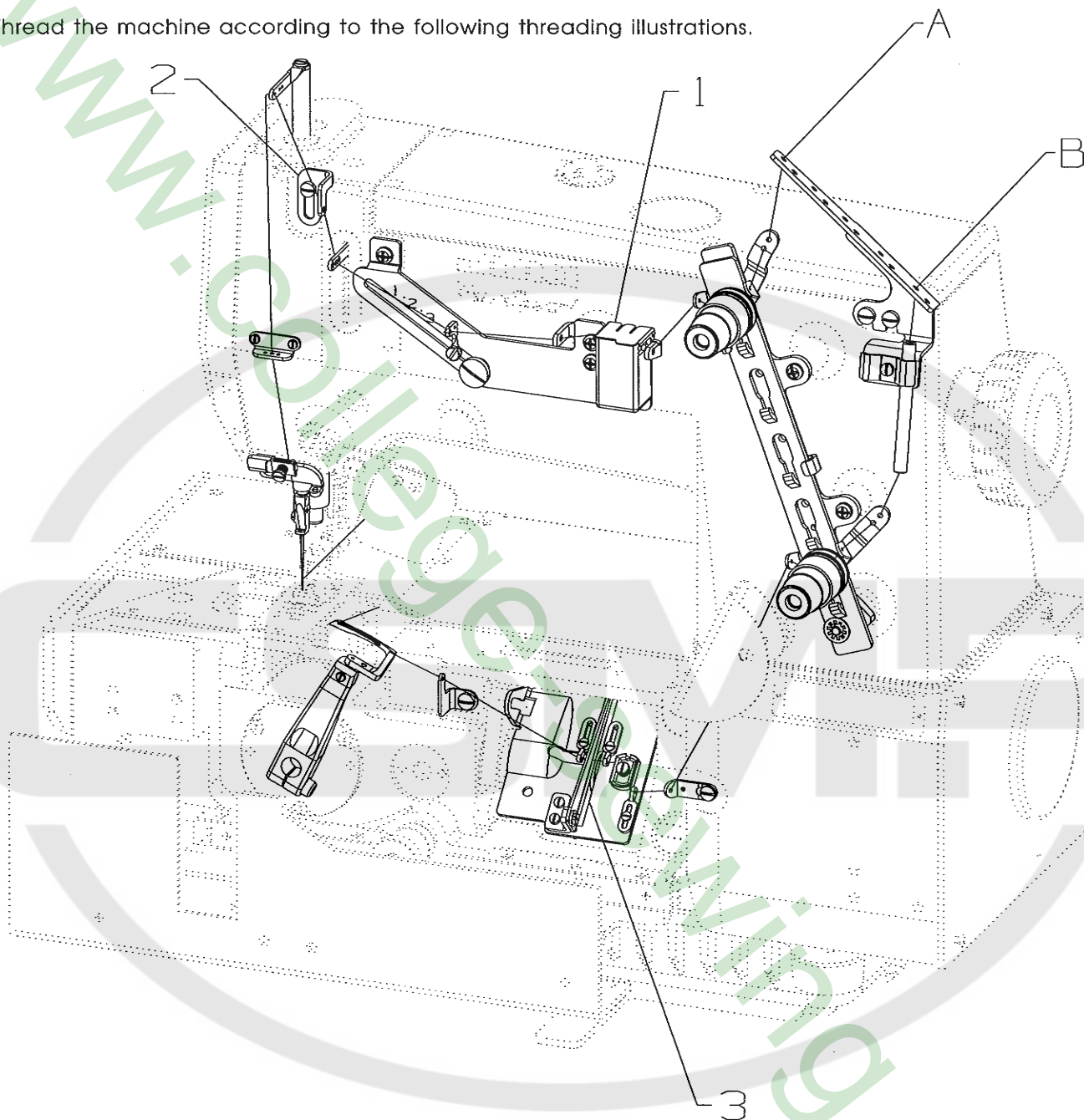
3. To drain oil reservoir, remove oil drain cap (C) on the underside of the machine.
4. To ensure oil flow through machine, check oil flow window (D).

THREADING THE MACHINE:



Turn off main power switch before threading! When using clutch motors without actuation lock wait until the motor has completely stopped.

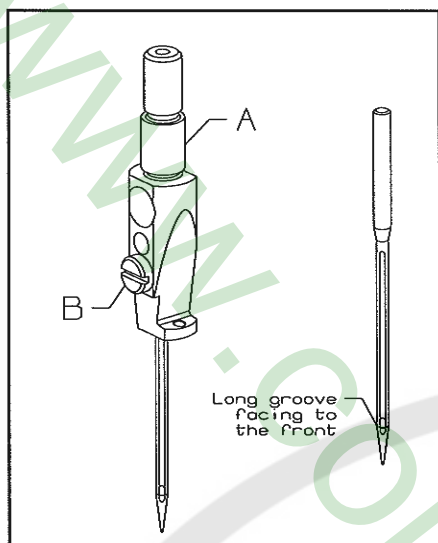
Thread the machine according to the following threading illustrations.



A Left Needle Thread
B Looper Thread

1 Thread Lubricator Area
2 Needle Bar Area
3 Thread Take-Up Area

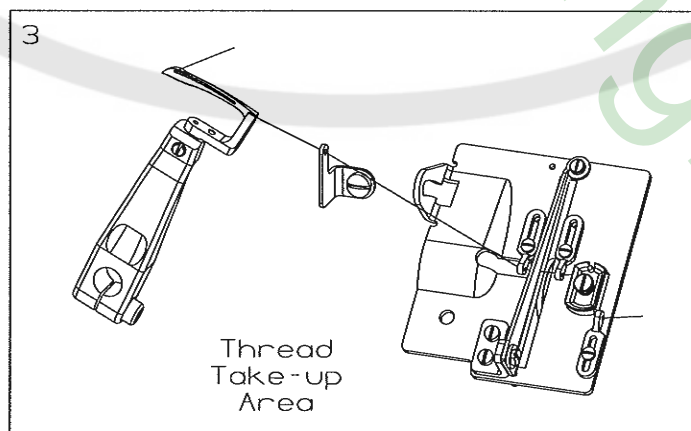
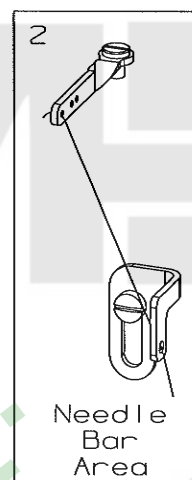
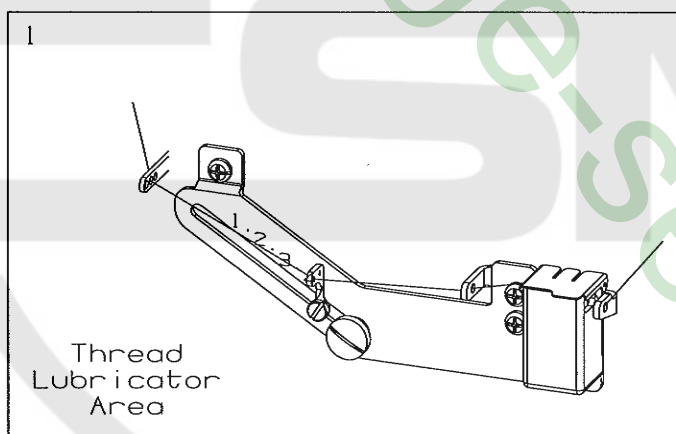
THREADING THE MACHINE (CONT.):



The standard needle is 128 GBS, needle range sizes "070/027 - 090/036."

Insert needle according to the following procedure:

1. Bring needle head (A) to the highest position.
2. Loosen screw (B), insert needle into holes. The needle scarf should face rearwards as viewed from the operator's side.
3. Retighten screw (B).



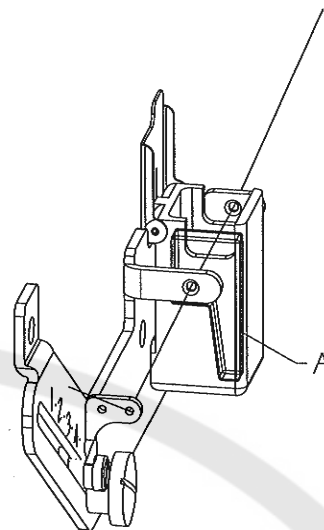
THREADING THE MACHINE (CONT.):

When the needle thread lubricator is used:

1. Saturate felt (A).
2. Pass thread over felt.

When the needle thread lubricator is not used:

1. Remove felt (A).



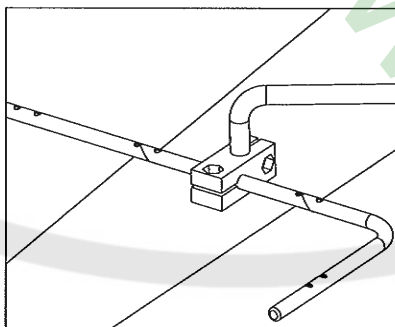
THREADING MEDTHODS



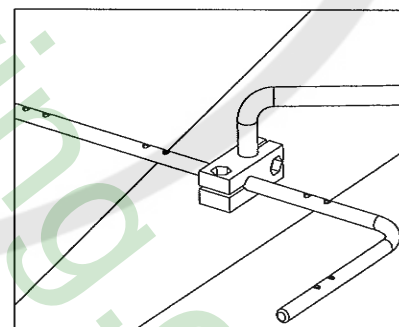
CAUTION!

When using an untwisted thread such as wooly nylon or weak thread, do not wind it around the intermediate thread guide.

Twisted Thread

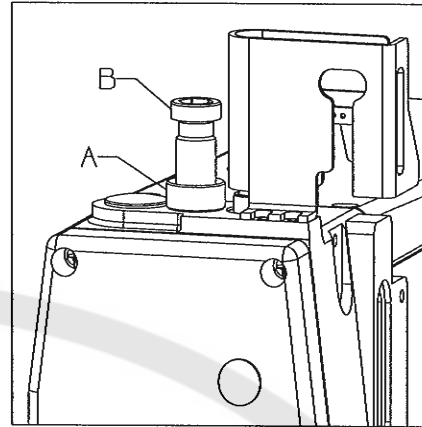


Non-Twist Thread



PRESSER FOOT PRESSURE AND LIFTER:

1. Adjust presser foot pressure by loosening nut (A) and turning presser foot adjust screw (B) clockwise to increase the pressure, counterclockwise to decrease the pressure.
2. Retighten nut (A).

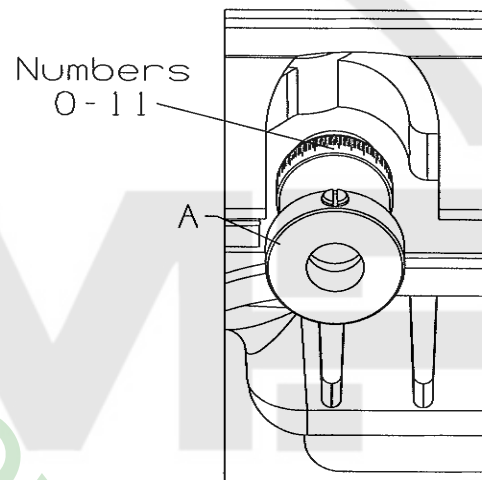


ADJUSTING THE STITCH LENGTH:



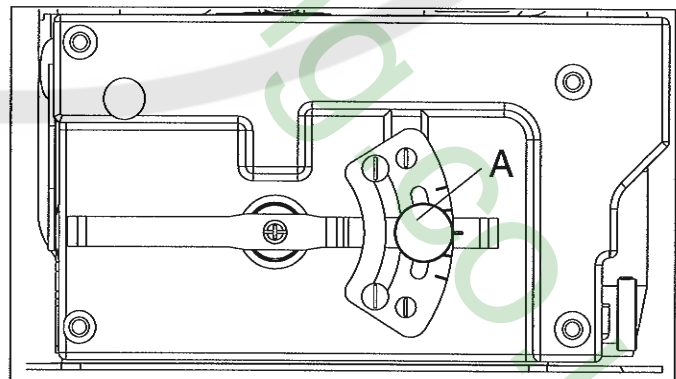
Turn off main power switch before setting the stitch length! When using clutch motors without actuation lock wait until the motor has completely stopped.

1. To change stitch length turn stitch regulating screw (A).
Clockwise to increase the stitches per inch/shorten the length of one stitch.
Counterclockwise to decrease stitches per inch/increase the length of one stitch.
2. Numbers 0-11 on stitch regulating screw are for operator's reference only.

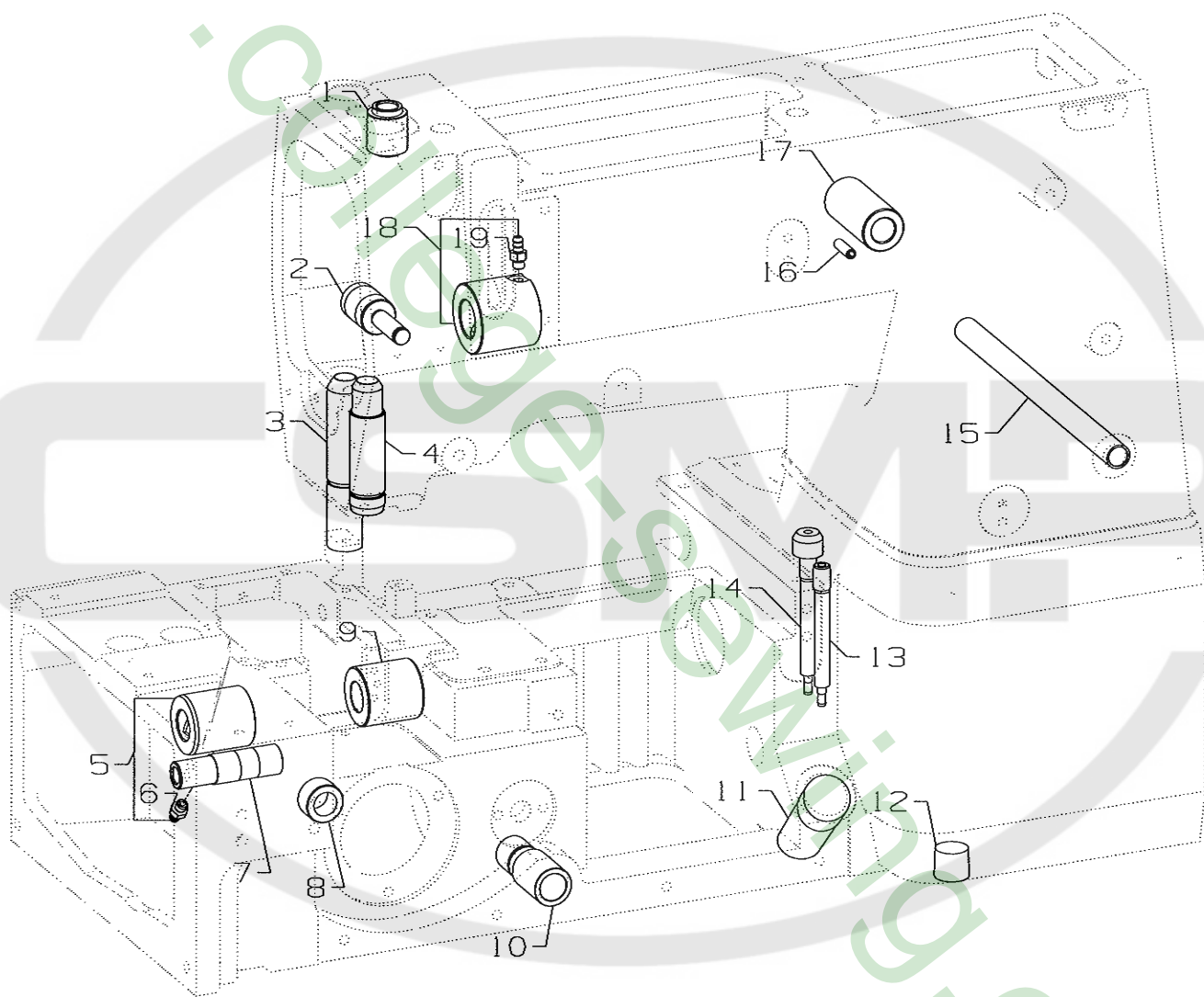


DIFFERENTIAL FEED MECHANISM:

1. Loosen screw (A) and move lever (B) up for gathering (+) and down (-) for stretch.
2. Retighten screw (A).
3. When the main stitch travel is set at .078" (2mm) the differential ratio for maximum gather is 1:1.5, maximum stretch is 1:0.6, depending on material.



www.km-technik.co.uk

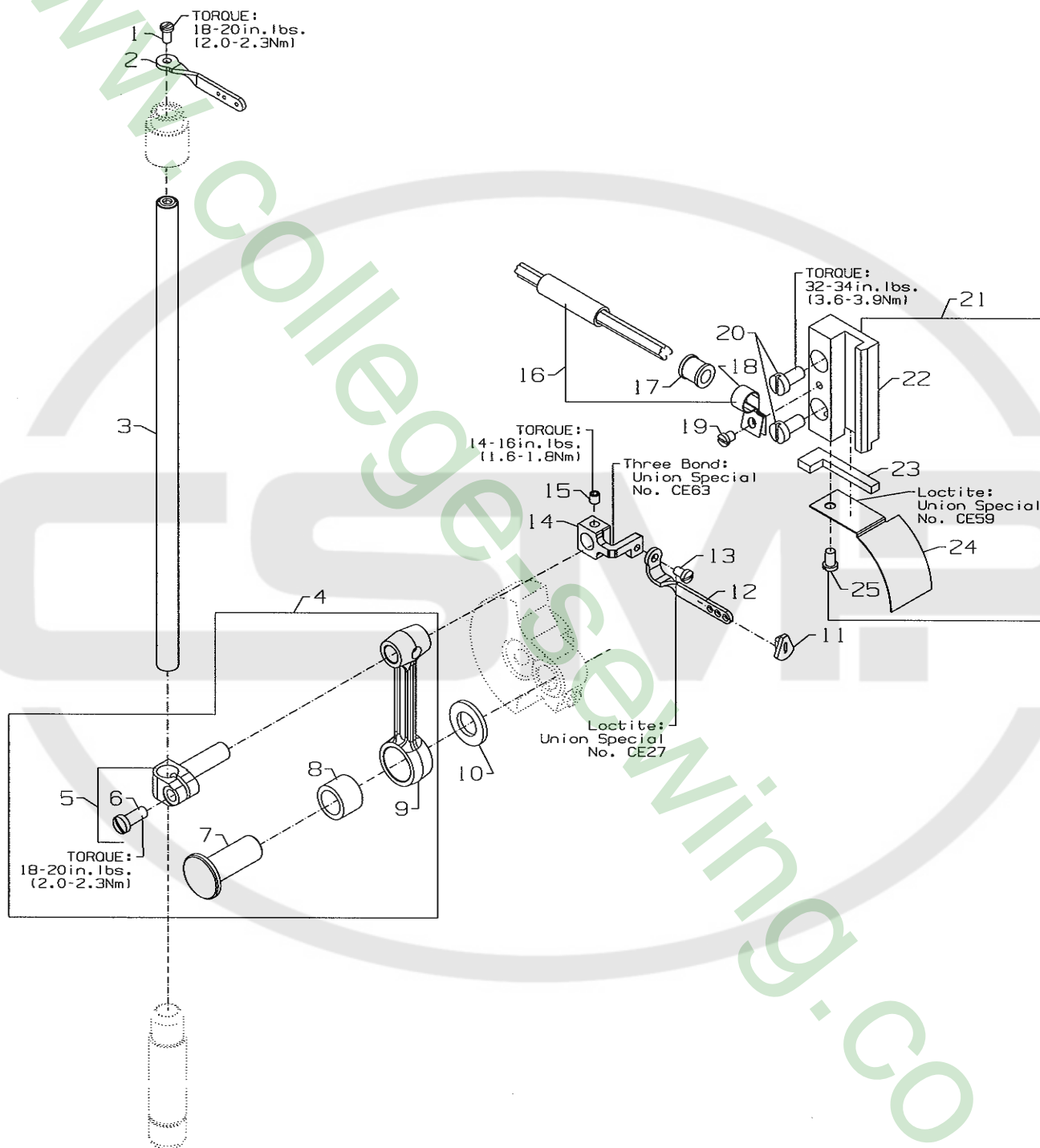


BUSHINGS

Ref. No.	Part No.	Description	Amt. Req.
1.	50654	Bushing, for needle bar, upper	1
2.	50332U	Pin, for front lifter lever	1
3.	50330CZ	Bushing, for presser bar	1
4.	50654A	Bushing, for needle bar, lower	1
5.	50344BE	Bushing, for lower mainshaft, left	1
6.	SQ1110401MZ	Fitting	1
7.	50344BC	Bushing, for needle lever	1
8.	50344E	Bushing	1
9.	50344BF	Bushing, for lower mainshaft, right	1
10.	35036BS	Stitch Regulator Bushing	1
11.	50393GE	Oil Sight Gauge	1
12.	22571L	Screw, for drain plug	1
13.	50393FU	Fitting, oil tube	1
14.	50393EY	Fitting, filter	1
15.	50392AB	Bushing, for tension release	1
16.	PS0400142KH	Pin	1
17.	50381E	Bushing, for lifter lever, back	1
18.	50344BU	Bushing, front	1
19.	SQ1110401MZ	Fitting	1



www.collegevinid.co.uk

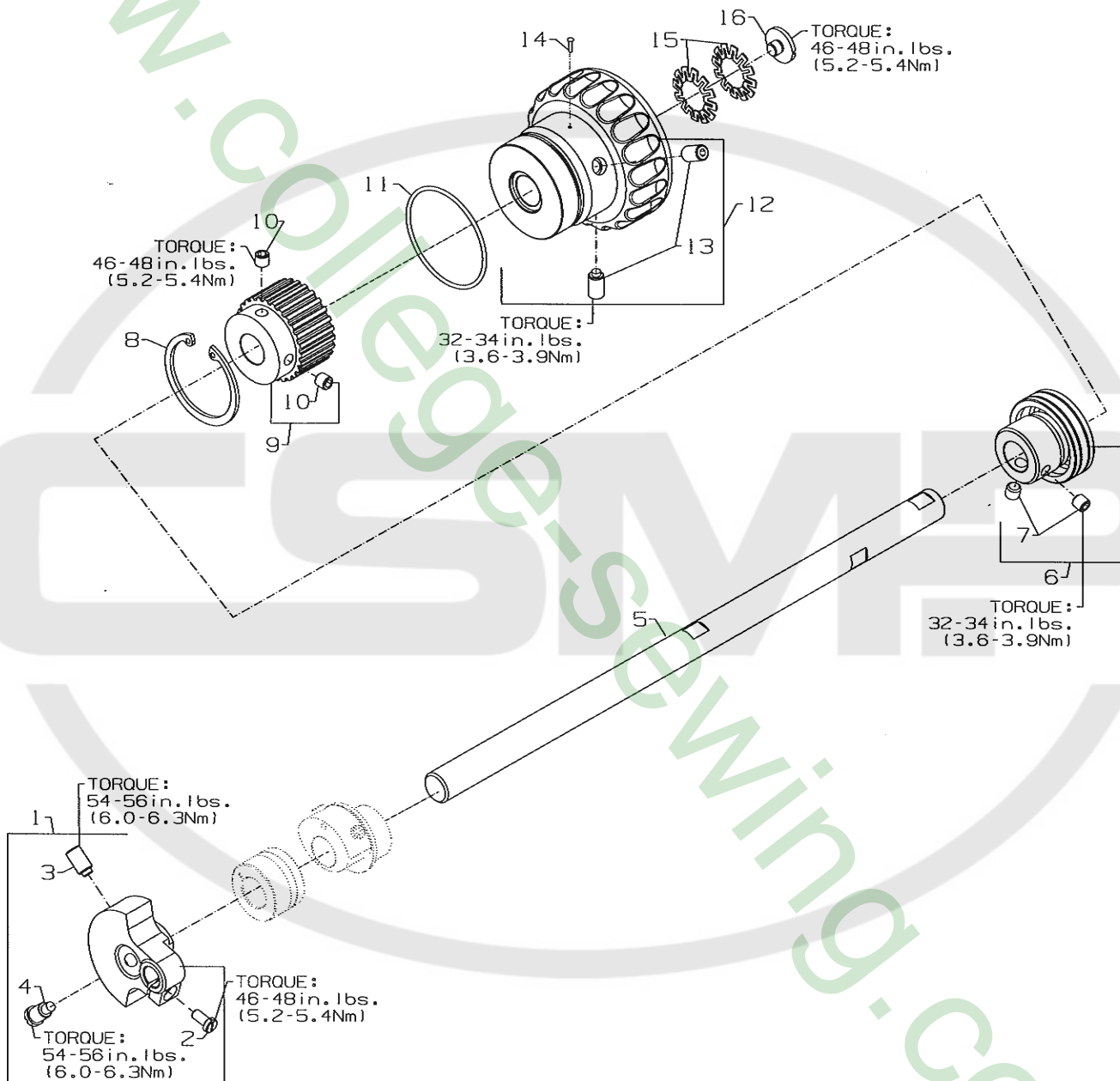


NEEDLE BAR

Ref. No.	Part No.	Description	Amt. Req.
1.	SS4080620TP	Screw	1
2.	50323P	Needle Bar Eyelet	1
3.	50317B	Needle Bar	1
4.	50345W	Connecting Rod Assembly	1
5.	50355AM	Needle Bar Clamp	1
6.	SS7111120TP	Screw	1
7.	50352	Pivot Pin	1
8.	661-259B	Needle Bearing Cage	1
9.	50355AN	Connecting Rod	1
10.	50351A	Washer	1
11.	50393JP	Eyelet Seal	1
12.	50358X	Needle Thread Eyelet	1
13.	SS7080520SP	Screw	1
-	CE27	Loctite Adhesive, (not shown), for screw	-
14.	50354F	Slide Block	1
-	CE63	Three Bond Adhesive, (not shown), for slide block	-
15.	SS8110422TP	Screw	1
16.	29476TC	Oil Tube Assembly	1
17.	50393JZ	Oil Tube	1
18.	50393JW	Hose Clamp	1
19.	SS6090440SP	Screw, for oil tube assembly	1
20.	SS6121010SP	Screw	2
21.	29476VN	Slide Block Guide and Cover Assembly	1
22.	50338	Guide, for slide block	1
23.	666-328	Felt, for slide block	1
-	CE59	Loctite Adhesive, (not shown), for felt	-
24.	50338A	Cover, for guide	1
25.	SS6090620SP	Screw	1



www.colts-sewing.co.uk

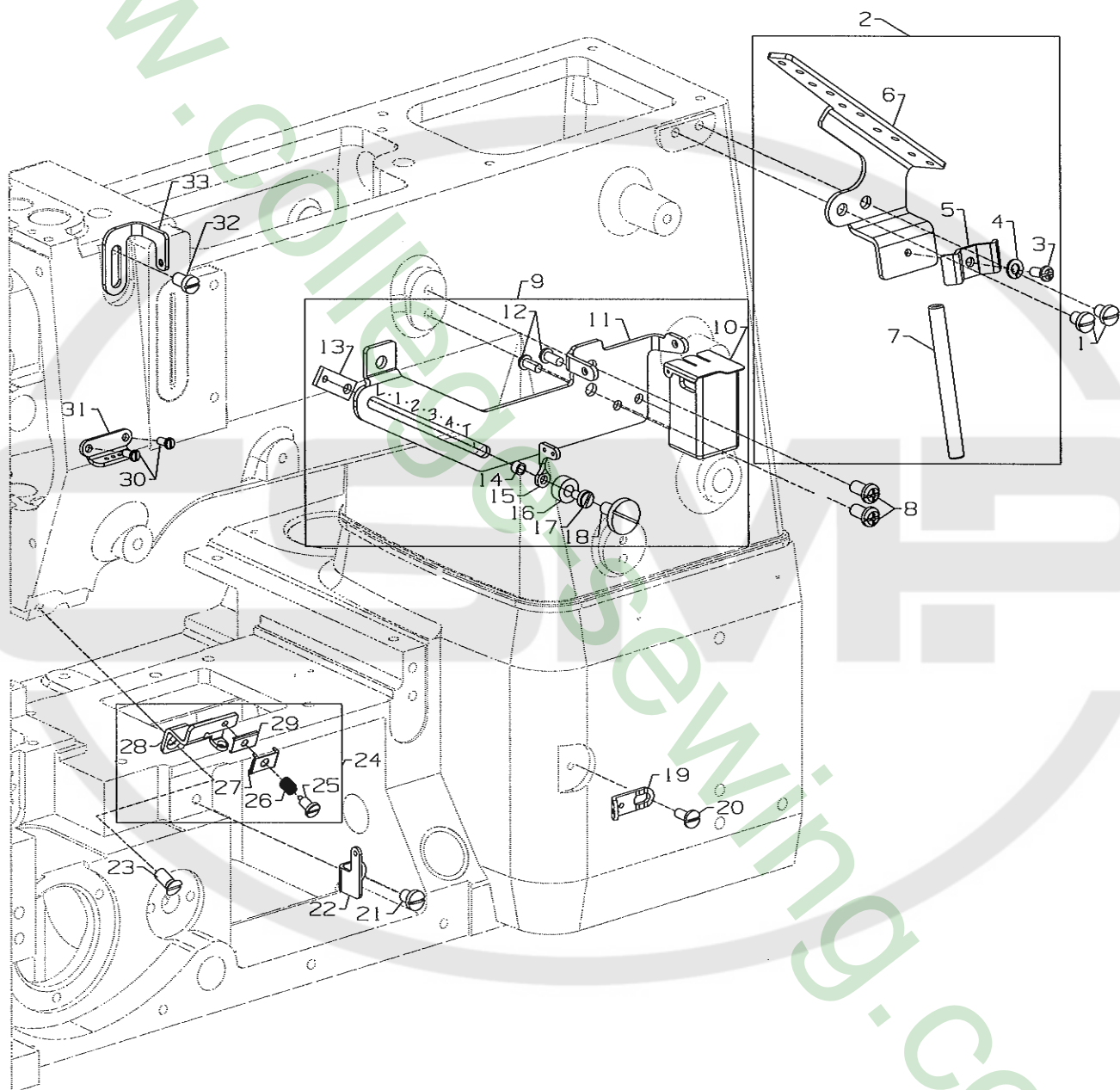


UPPER MAIN SHAFT

Ref. No.	Part No.	Description	Amt. Req.
1.	50391	Counter Weight	1
2.	SS7111120TP	Screw, for counter weight	1
3.	SS8681412TP	Screw, for counter weight	1
4.	SS7681410TP	Screw, for counter weight	1
5.	50322AF	Upper Main Shaft	1
6.	50335BD	Bearing Adapter Assembly	1
7.	SS8660612TP	Screw, for bearing adapter	2
8.	661-262	Retaining Ring	1
9.	50342BE	Sprocket, for upper main shaft	1
10.	SS8661012TP	Set Screw, for sprocket	2
11.	660-1087	"O" Ring.....	1
12.	50321F	Handwheel	1
13.	SS8681412TP	Set Screw, for handwheel	2
14.	660-1043	Tack Pin, for handwheel	1
15.	661-261	Load Ring, for lower main shaft	2
16.	SS7660520SP	Screw, for handwheel preload	1



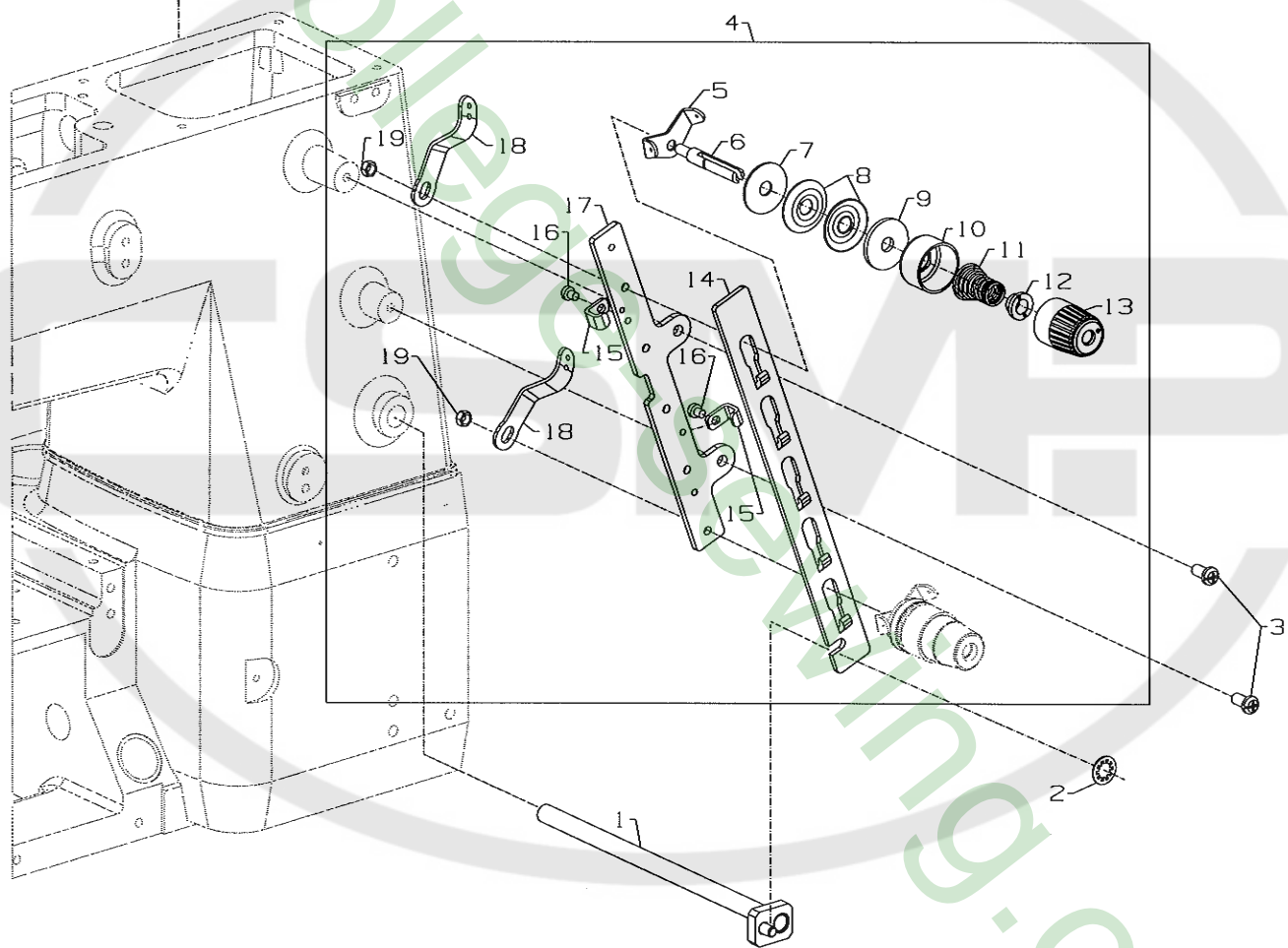
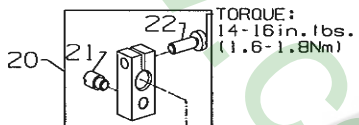
www.km-engineering.co.uk



THREAD GUIDE

Ref. No.	Part No.	Description	Amt. Req.
1.	SS7120640SP	Screw, for lead-in eyelet	2
2.	50692H	Thread Eyelet Assembly	1
3.	SS7090910TP	Screw	1
4.	WS0410002KP	Split Washer	1
5.	50366A	Thread Eyelet Tube Bracket	1
6.	50392S	Lead-In Tension Eyelet	1
7.	50366	Thread Eyelet Tube	1
8.	SS4120915SP	Screw, for spreader thread guide	2
9.	29476TG	Thread Ratio Control Assembly	1
10.	50393HH	Silicone Thread Lubricator	1
11.	50683A	Thread Control Bracket	1
12.	SS4090815SP	Screw, for silicone tank	2
13.	56358B	Guide Block	1
14.	56358C	Guide	1
15.	158B	Thread Eyelet	1
16.	56358D	Washer	1
17.	98A	Screw	1
18.	22837	Screw	1
19.	12124202	Looper Frame Eyelet	1
20.	SS70906105SP	Screw	1
21.	SS7120640SP	Screw	1
22.	50392AE	Looper Frame Eyelet	1
23.	SS1121010SP	Screw, for thread guide	1
24.	50357AR	Nipper Plate Assembly	1
25.	SD0380551SL	Screw	1
26.	50357AS	Nipper Spring	1
27.	50357Y	Nipper Spring Plate	1
28.	50366G	Thread Guide	1
29.	50357V	Nipper Plate	1
30.	605A	Screw, for needle thread guide	2
31.	C50044E	Needle Thread Guide	1
32.	SS7120710SP	Screw, for strike-off	1
33.	50663	Needle Thread Strike-Off Eyelet	1

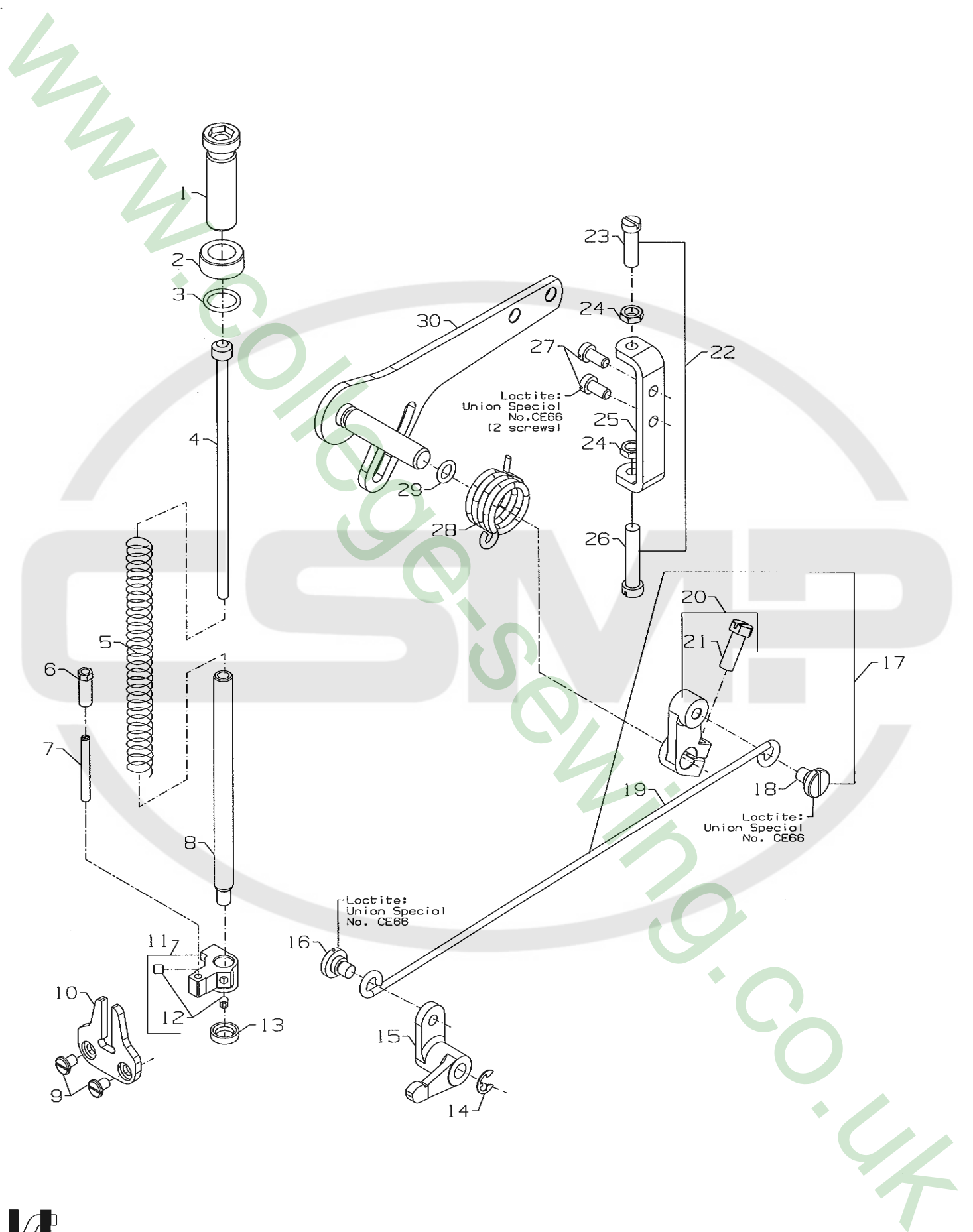




TENSION RELEASE & THREAD TENSION

Ref. No.	Part No.	Description	Amt. Req.
1.	50392Z	Tension Needle Lever Assembly	1
2.	660-283A	Retainer Washer	1
3.	SS4120915SP	Screw, for tension assembly	2
4.	50692B	Two Thread Tension Assembly	1
5.	57892K	Thread Tension Eyelet	2
6.	56392G	Tension Post	2
7.	B3120352000	Tension Disc Felt	2
-	666-330	Disc Felt	4
8.	B3126012000	Tension Disc	4
9.	B3120704000	Tension Disc Felt	2
10.	56392H	Spring Shield	2
11.	11550209	Spring, needle (green)	3
-	B3103804000	Spring, spreader (blue)	1
-	B3121804000	Spring, looper (plain)	1
12.	B3112704000	Ferrule, tension spring	2
13.	50692G	Knob, needle (green)	3
-	56392R	Knob, looper (plain)	1
14.	50392W	Tension Disc Separator	1
15.	50392AV	Guide, for tension disc separator	2
16.	SS7090520SP	Screw, for guide	2
17.	50392X	Tension Bracket	1
18.	57865	Lead-In Thread Guide	2
19.	NS6110420SP	Nut	2
20.	50392BC	Tension Release Lever Shaft Connection	1
21.	22875N	Stop Screw	1
22.	SS7121410TP	Binder Screw	1

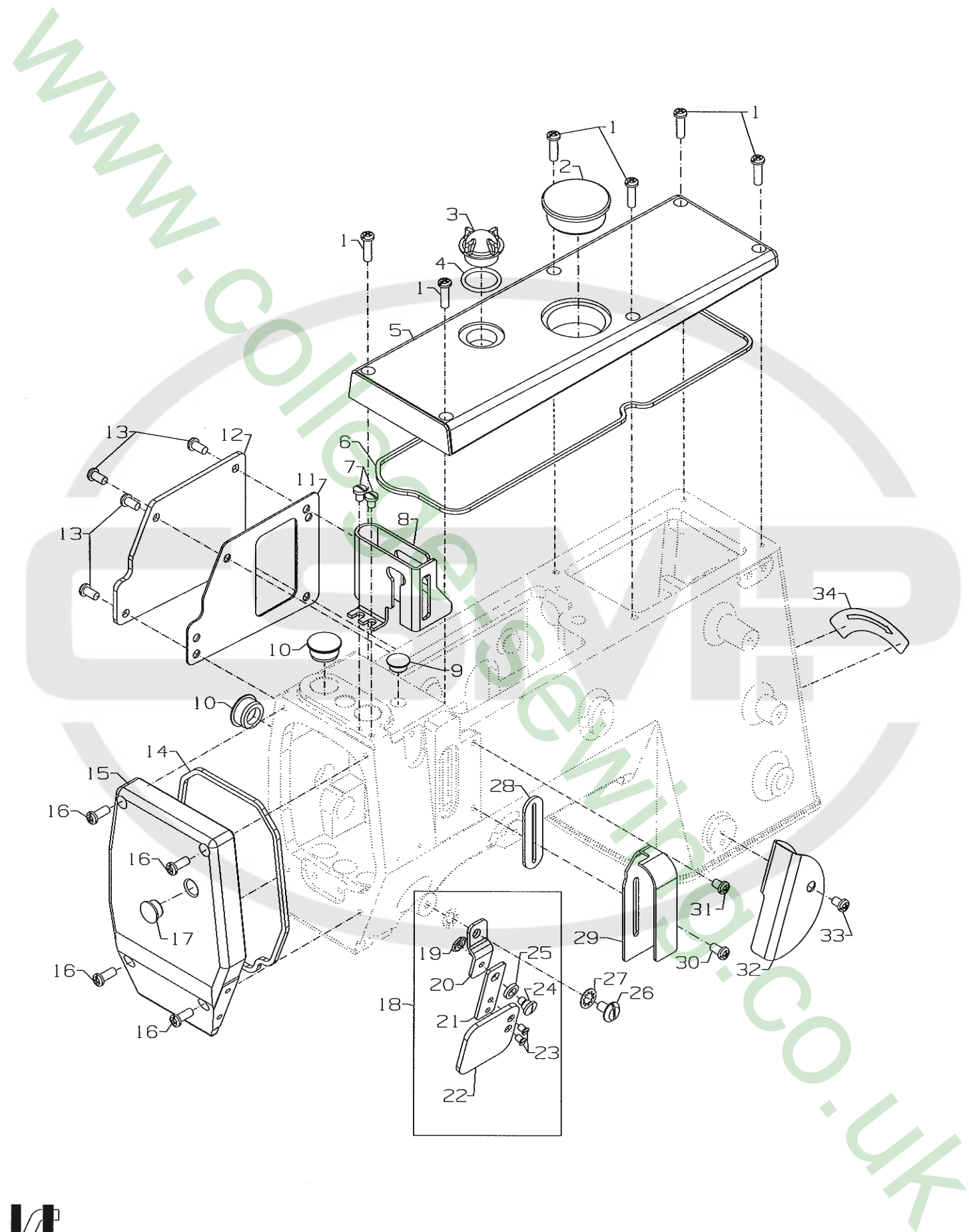




PRESSER FOOT LIFT

Ref. No.	Part No.	Description	Amt. Req.
1.	11071602	Adjusting Screw, for spring	1
2.	11071701	Locking Nut	1
3.	660-1014	"O" Ring	1
4.	C50056B	Spring Rod	1
5.	50357AA	Spring, for presser bar, for S01, S02 machine styles	1
-	50357AP	Spring, for presser bar, for differential feed machines	1
6.	C50056J	Lock Nut	1
7.	50643B	Screw	1
8.	50335AF	Presser Bar, for S01, S02 machine styles	1
-	50643A	Pressr Bar	1
9.	SS6110610TP	Screw, for guide plate	2
10.	50335AG	Guide Plate, for presser bar	1
11.	50335AH	Presser Bar Guide	1
12.	SS8110422TP	Set Screw	2
13.	660-739	Oil Seal	1
14.	RE0500000K0	E Ring, for pin	1
15.	50381F	Lever, for lifter, front	1
16.	SD0790303SP	Screw, for wire connector	1
-	CE49	Loctite Adhesive, (not shown), for screw	-
17.	29476TK	Rear Lifter Lever Assembly	1
18.	SD0790303SP	Screw, for lifter lever assembly	1
19.	50355AR	Wire Connector	1
20.	50381G	Lifter Lever, rear	1
21.	SS9151740CP	Hex Screw	1
22.	29476TT	Stop Assembly	1
23.	SS6151920SP	Screw, for adjusting stopper	1
24.	NS6150310SP	Hex Nut	2
25.	50332V	Stopper, for lifter lever	1
26.	SS6153040SP	Screw, for adjusting stopper	1
27.	SS4121215SP	Screw, for stopper	2
-	CE49	Loctite Adhesive, (not shown), for screw	-
28.	50381	Spring, for lifter lever	1
29.	RO068190100	"O" Ring	1
30.	50381B	Lifter Lever Assembly	1

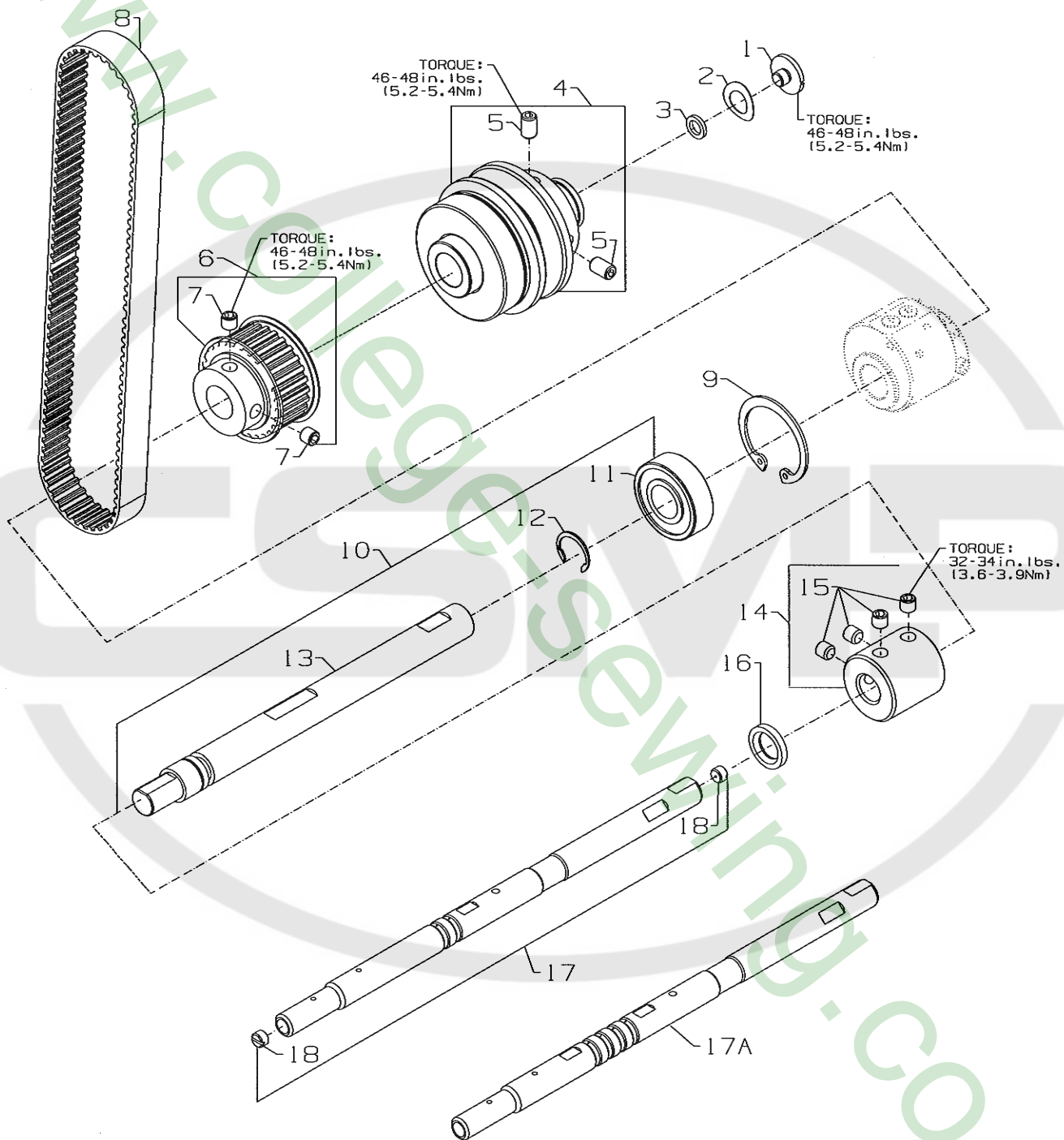




COVERS, UPPER ARM

Ref. No.	Part No.	Description	Amt. Req.
1.	SS4121615SP	Screw, for top cover	6
2.	50393EU	Plug, for top cover	1
3.	B3530555000	Oil Sight Gauge, top	1
4.	660-212	"O" Ring, for oil sight gauge	1
5.	50382FW	Top Cover	1
6.	50382FZ	Quad Ring, for top cover	1
7.	SS7120640SP	Screw, for needle bar guard	2
8.	50317C	Needle Bar Guard	1
9.	TA1050504RO	Plug, for bed	1
10.	50393HB	Plug, for bed	2
11.	50384L	Gasket, for puller drive cover	1
12.	50382GB	Puller Drive Cover	1
13.	SS4120915SP	Screw, for puller drive cover	4
14.	50382FY	Quad Ring, for head cover	1
15.	50382FX	Head Cover	1
16.	SS4121215SP	Screw, for head cover	4
17.	TA1100604RO	Plug, for head cover	1
18.	99682XCB	Protection Shield Assembly	1
19.	NS6620320SP	Nut	1
20.	50383AE	Bracket Holder	1
21.	50383AD	Bracket	1
22.	99682XC	Protection Shield	1
23.	SS1110640SL	Counter Sunk Head Screw	2
24.	SD0640323TP	Shoulder Screw	1
25.	WZ0641510KP	Spring Washer	1
26.	22517B	Screw	1
27.	652C16	Washer	1
28.	50393EW	Rubber Gasket, for needle lever	1
29.	50696	Cover, for thread take-up	1
30.	SS4120915SP	Screw, for thread take-up cover	1
31.	SS4120615SP	Screw, for thread cover	1
32.	50382GM	Thread Cover	1
33.	SS4120615SP	Screw, for thread take-up cover	1
34.	LA452	Label, direction of rotation	

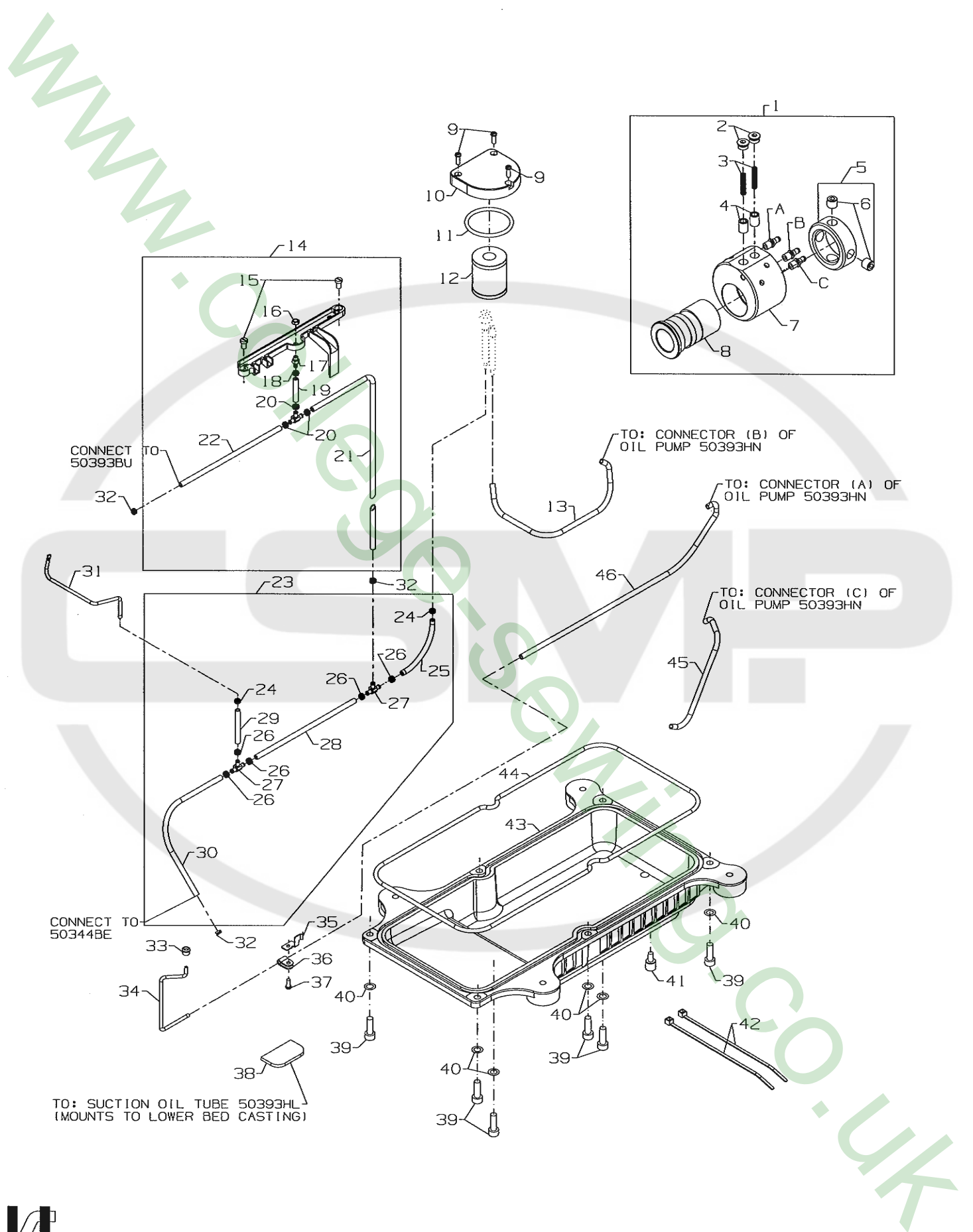




LOWER MAIN SHAFT

Ref. No.	Part No.	Description	Amt. Req.
1.	SS7660520SP	Shoulder Screw, for lower main shaft, right	1
2.	660-1062	Spring Washer	1
3.	50374	Spacer, for pulley assembly	1
4.	50321G	Pulley Assembly	1
5.	SS8661012TP	Set Screw	2
6.	50342AX	Sprocket, for lower main shaft	1
7.	SS8660612TP	Screw	2
8.	50342BS	Timing Belt	1
9.	50335AK	Retaining Ring, for ball bearing	1
10.	29476UH	Mainshaft Assembly, lower, right	1
11.	50322AL	Ball Bearing, for lower main shaft	1
12.	50335BB	Retaining Ring	1
13.	50322AG	Lower Main Shaft, right	1
14.	50333A	Coupling, for lower main shafts	1
15.	SS8660612TP	Screw	4
16.	660-934	Oil Seal	1
17.	50622D	Lower Main Shaft, left for plain feed.....	1
17A.	50622E	Lower Main Shaft, left for differential feed	1
18.	SS8660410SP	Screw	2



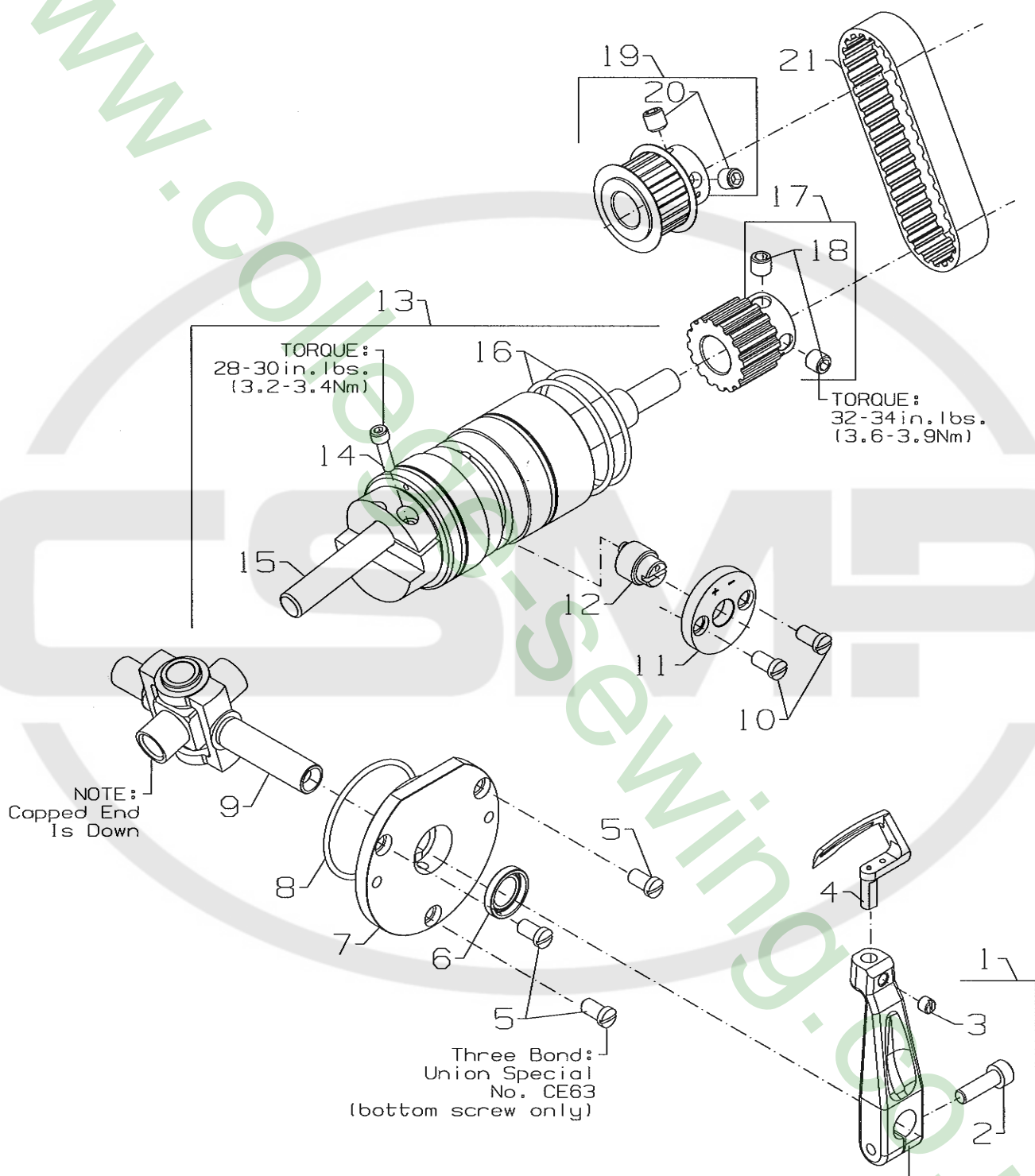


LUBRICATION, OIL TUBING & OIL PUMP

Ref. No.	Part No.	Description	Amt. Req.
1.	50393HN	Oil Pump Assembly, 2-stage	1
2.	SS8660612TP	Screw	2
3.	50332S	Spring, for plunger.....	2
4.	34393D	Plunger.....	2
5.	50393EX	Collar, for oil pump	1
6.	SS8660612TP	Screw	2
7.	50393GB	Oil Pump Housing, 2 Stage.....	1
8.	50393GD	Oil Pump Housing, 2 Stage.....	1
9.	SS4091015SP	Screw, for oil filter cover.....	3
10.	50393FR	Cover, for oil filter.....	1
11.	50384	"O" Ring, for oil filter cover.....	1
12.	11843208	Oil Filter.....	1
13.	50393FV	Oil Tube, for supply (1)	1
14.	29476US	Oil Supply Assembly, upper	1
15.	SS7120710SP	Screw, for front upper tube	2
16.	NS6110310SP	Nut	1
17.	SQ1110402MZ	Fitting	1
18.	50393KH	Tube Retaining, spring	1
19.	50393-27	Oil Tube	1
20.	50393KM	Tube Retaining, spring	3
21.	50393-447	Oil Tube	1
22.	50393-140	Oil Tube	1
23.	29476UT	Oil Supply Assembly, lower	1
24.	50393KH	Tube Retaining, spring	2
25.	50393-70	Oil Tube	1
26.	50393KM	Tube Retaining, spring	5
27.	13765607	"T" Connector	2
28.	50393-140	Oil Tube	1
29.	50393-40	Oil Tube	1
30.	50393-170	Oil Tube	1
31.	50393KF	Oil Tube	1
32.	50393KM	Tube Retaining, spring	3
33.	50393HR	Plug, for feed chamber	1
34.	50393HL	Oil Tube, for suction	1
35.	50393FS	Oil Tube Holder	1
36.	998-358F	Plastic Clip	1
37.	SS4090815SP	Screw, for oil tube holder	1
38.	50393HK	Felt	1
39.	SS6151812TP	Screw, for oil pan	6
40.	WS0631510KP	Spring Washer	6
41.	22571E	Screw, for oil drain plug	1
42.	RM2871B	Cable Tie	2
43.	50393EB	Oil Pan	1
44.	50384A	"O" Ring	1
45.	50393FT	Oil Tube, for suction	1
46.	50393HJ	Oil Tube, for suction	1

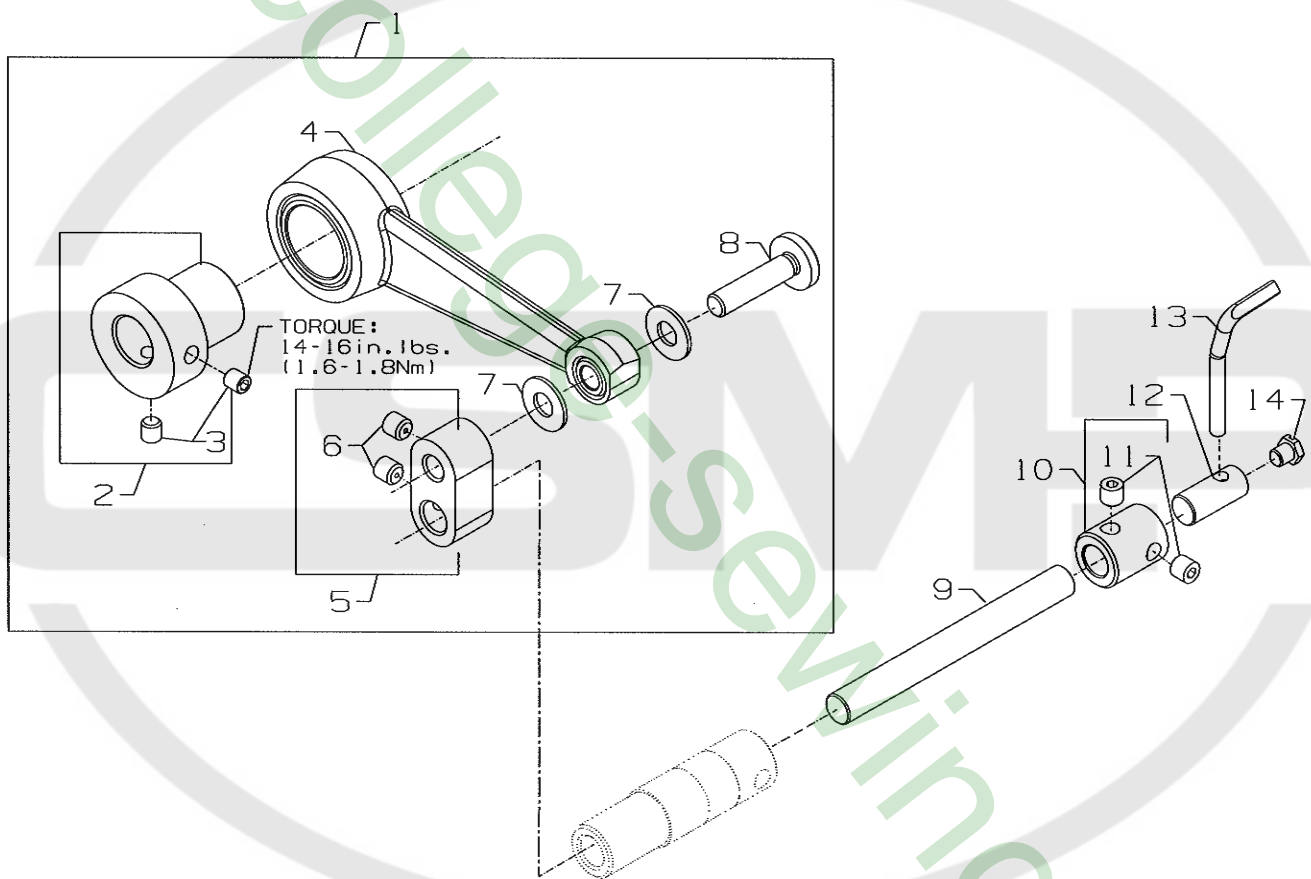


www.comsewing.com



LOOPER DRIVE

Ref. No.	Part No.	Description	Amt. Req.
1.	50313	Looper Holder	1
2.	22652B10	Screw, for looper holder	1
3.	22565	Screw, for looper holder	1
4.	50309F	Looper	1
5.	SS7120910SP	Screw, for bearing housing	3
-	CE63	Three Bond Adhesive, (not shown), for screw	-
6.	660-893	Oil Seal, looper	1
7.	50344AM	Bearing Housing Assembly, for looper drive	1
8.	660-455	"O" Ring, for bearing housing assembly	1
9.	50313J	Looper Rocker Assembly	1
10.	SS7120910SP	Screw, for retaining plate	2
11.	50314F	Eccentric Retaining Plate	1
12.	50314E	Looper Avoid Adjusting Eccentric	1
13.	50642	Looper Drive Assembly	1
14.	22653J8	Screw	1
15.	667J33	Crank Pin	1
16.	660-979	"O" Ring	2
17.	50342BJ	Sprocket, for looper driven	1
18.	SS8660612TP	Screw	2
19.	50342BK	Sprocket, for looper drive	1
20.	SS8660612TP	Screw	2
21.	50342BP	Looper Drive Belt	1

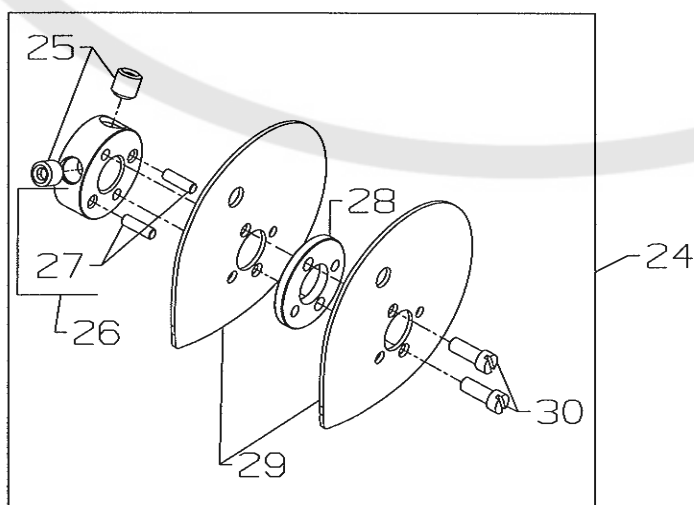
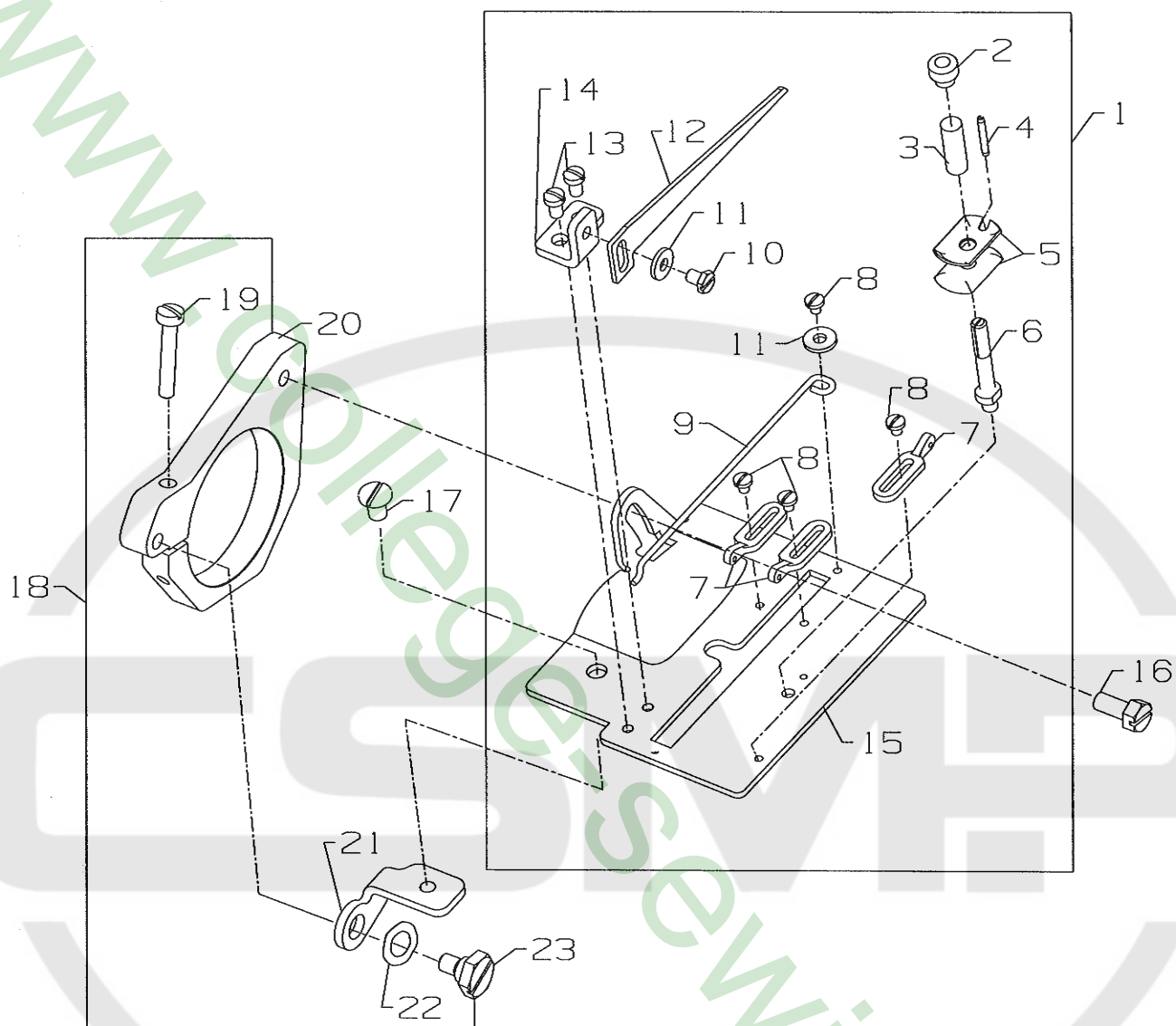


NEEDLE GUARD

Ref. No.	Part No.	Description	Amt. Req.
1.	29476UJ	Rear Needle Guard Drive Assembly	1
2.	50373DA	Needle Guard Eccentric	1
3.	SS8110422TP	Screw, for needle guard eccentric	2
4.	50368W	Connecting Rod Assembly, for needle guard	1
5.	50368T	Pivot Link	1
6.	SS8110422TP	Screw	2
7.	50368E	Washer	2
8.	50368A	Pivot Pin	1
9.	50368V	Shaft, for needle guard	1
10.	50354L	Coupling, for needle guard	1
11.	SS8110422TP	Screw	2
12.	50325AF	Holder, for needle guard	1
13.	50325AE	Needle Guard, rear	1
14.	SS9090420TP	Screw, for rear needle guard	1



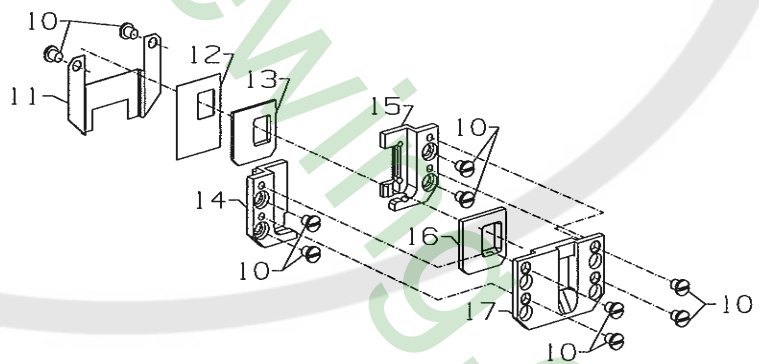
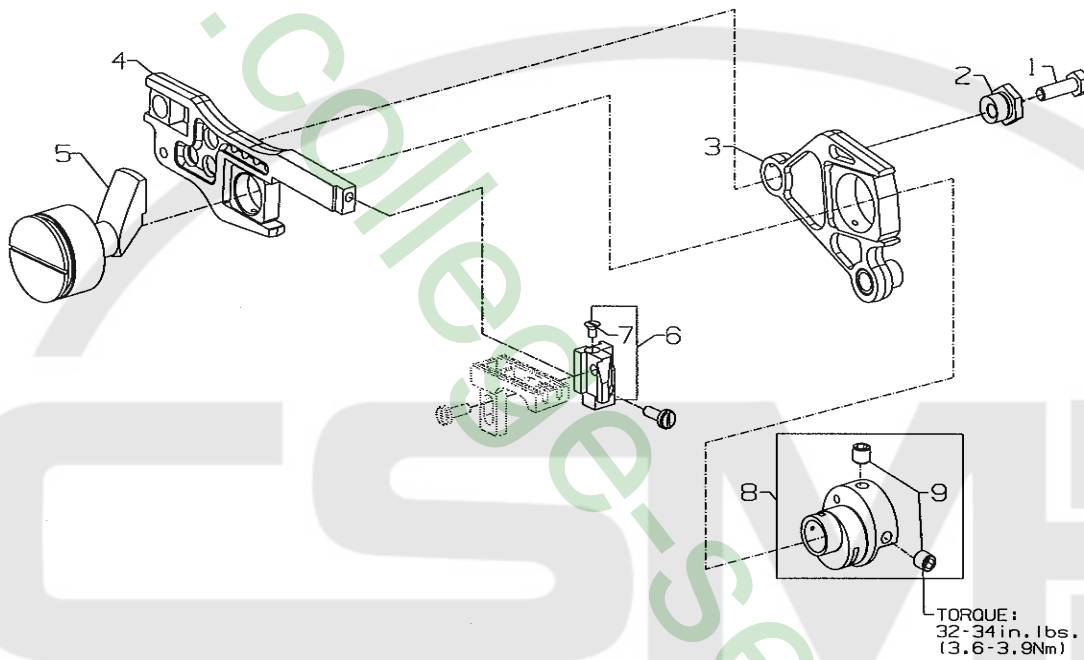
www.sewing.co.uk



LOOPER THREAD TAKE-UP

Ref. No.	Part No.	Description	Amt. Req.
1.	50657	Cast-Off Plate Assembly	1
2.	51959D	Knurled Nut	1
3.	51959K	Tension Spring	1
4.	51959L	Roll Pin	1
5.	51959B	Tension Disc	2
6.	51492	Tension Post	1
7.	52958D	Take-up Eyelet	3
8.	SS7060310SP	Screw	4
9.	50304H	Strike-Off Wire	1
10.	SS9080410SP	Screw	1
11.	41358	Washer	2
12.	50304L	Retaining Finger	1
13.	SS7080520SP	Screw	2
14.	50383E	Mounting Bracket	1
15.	50357W	Cast-Off Plate	1
16.	SS9111010SP	Screw, for collar bracket	1
17.	SS6110610TP	Screw, for cast-off holder	1
18.	29476UK	Cast-Off Plate Holder Assembly	1
19.	SS7092110TP	Screw, for collar bracket	1
20.	50383F	Take-up Collar Bracket	1
21.	50304K	Cast-Off Plate Holder	1
22.	WZ0640200KP	Washer	1
23.	SD0630275SP	Shoulder Screw, for cast-off plate holder	1
24.	50623	Take-up Assembly	1
25.	22894C	Set Screw	2
26.	50323B	Take-up Hub	1
27.	22-348	Pin	2
28.	50377R	Spacer	1
29.	50323H	Disc, for take-up	2
30.	77B	Screw, for take-up disc	2





FEED DRIVE MECHANISM

FOR PLAIN FEED

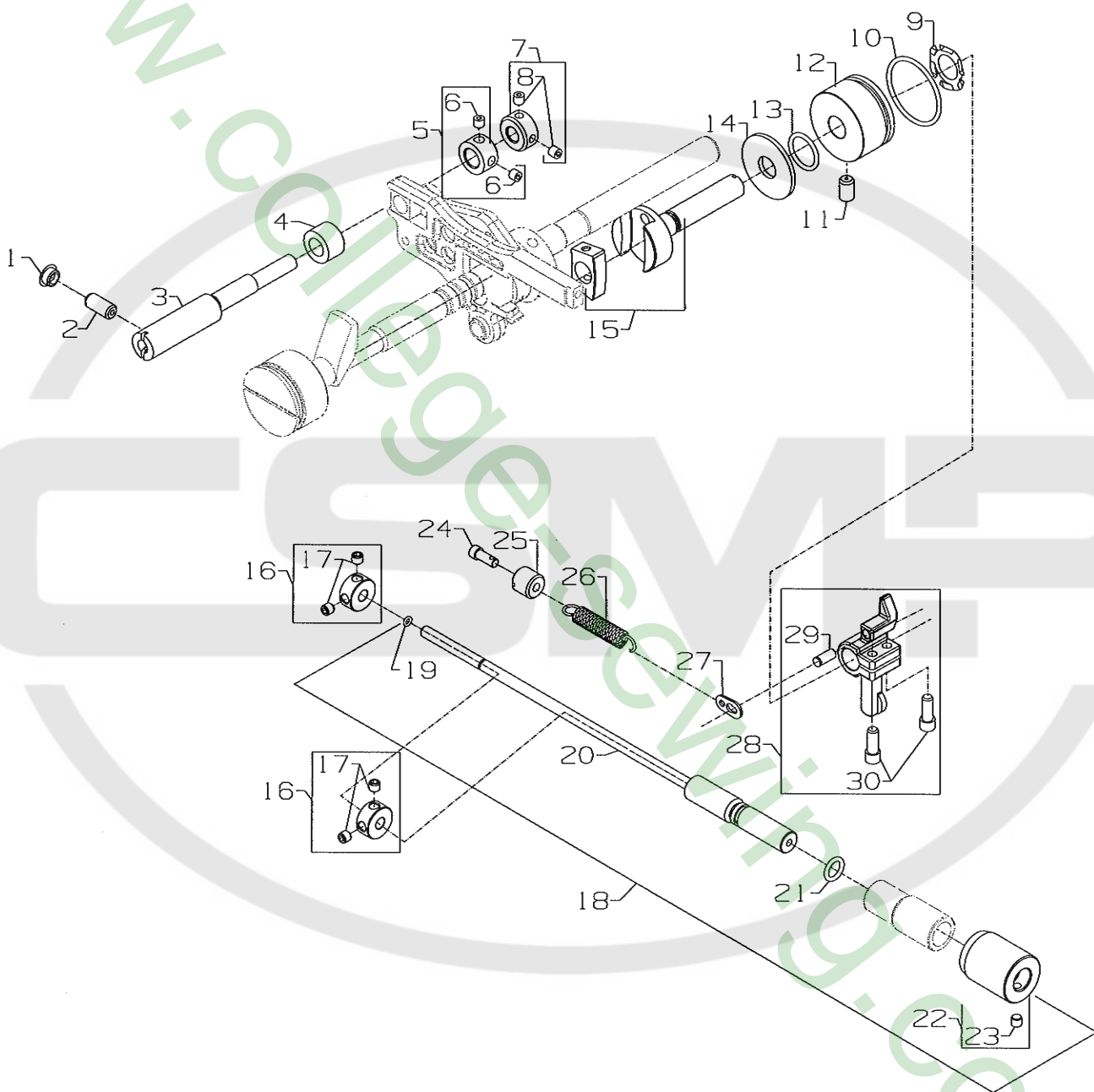
Ref. No.	Part No.	Description	Amt. Req.
1.	18-1432	Screw.....	1
2.	50334BD	Hex Eccentric Stud	1
3.	50334AX	Drive Fork Assembly, right	1
4.	50634	Feed Bar Assembly	1
5.	50334A	Plain Feed Bar Guide	1
6.	50634E	Feed Dog Holder	1
7.	22637P24	Screw	1
8.	50640-18	Feed Eccentric, main	1
9.	SS8660612TP	Screw	2
10.	SS7090530SP	Screw	10
11.	50334Y	Oil Shield	1
12.	50334W	Oil Scraper	1
13.	50634C	Feed Bar Seal	1
14.	50637A	Guide Plate, left, rear	1
15.	50335BA	Guide Plate, right, rear	1
16.	50634D	Feed Bar Seal	1
17.	50637	Guide Plate, front	1



FEED DRIVE MECHANISM FOR DIFFERENTIAL FEED

Ref. No.	Part No.	Description	Amt. Req.
1.	18-1432	Screw.....	2
2.	50334BD	Hex Eccentric Stud	2
3.	50334AW	Drive Fork Assembly	1
4.	50334BE	Feed Bar Assembly	1
5.	50334AX	Drive Fork Assembly, right	1
6.	50340D	Feed Eccentric, main	1
7.	SS8660612TP	Screw	2
8.	SS7090530SP	Screw	10
9.	50334Y	Oil Shield	1
10.	50334V	Oil Scraper	1
11.	50334BH	Feed Bar Seal	1
12.	50335AM	Guide Plate, left, rear	1
13.	50335BA	Guide Plate, right, rear	1
14.	50334J	Feed Bar Seal	1
15.	50335AN	Guide Plate, front	1
16.	RO681190100	"O" Ring	1
17.	50337J	Stem, for differential feed lever	1
18.	SS4121215SP	Screw, for stem	1
19.	29476UM	Differential Feed Lever Assembly	1
20.	50337H	Differential Feed Lever	1
21.	50337U	Stop	2
22.	50337K	Plate, for differential feed lever	1
23.	SS7090610SP	Screw	2
24.	B1647704000A	Knob, for differential feed lever	1
25.	50387	Screw	1
26.	SS7090610SP	Screw	2
27.	50337S	Collar	1
28.	SS8110422TP	Screw	2
29.	50337L	Coupling, for differential feed lever	1
30.	SS6110650TP	Screw	2
31.	50337R	Collar, for differential feed lever	1
32.	SS8090710SP	Screw	1
33.	SS6091022TP	Screw	1
34.	SP0550271TP	Screw, for spring	1
35.	50337M	Spring, for differential feed lever	1
36.	50340E	Feed Eccentric, differential	1
37.	SS8660612TP	Screw	2



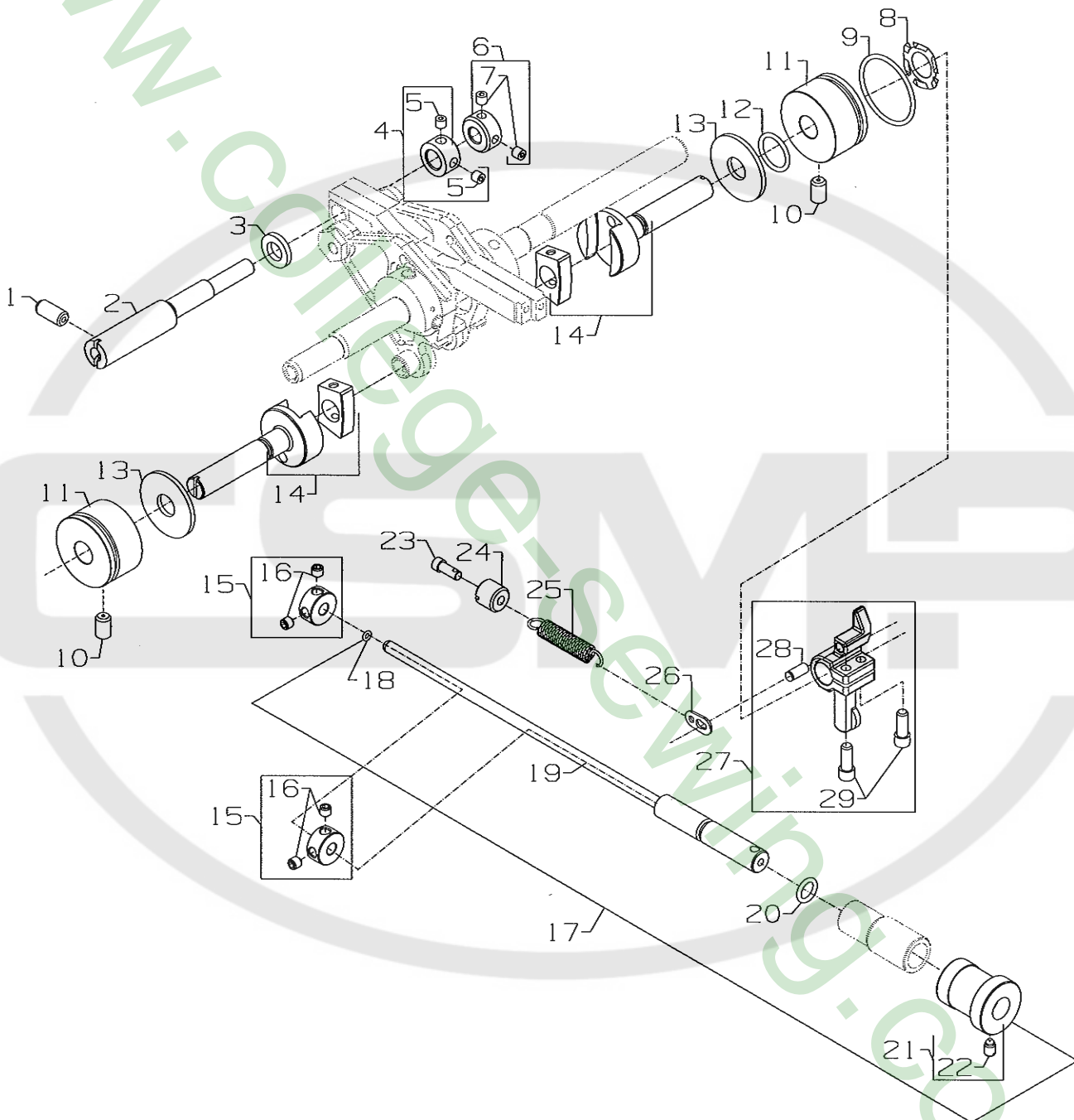


FEED DRIVE MECHANISM

FOR PLAIN FEED

Ref. No.	Part No.	Description	Amt. Req.
1.	TA075404RO	Plug, for eccentric shaft	1
2.	22591A	Screw, for eccentric shaft	1
3.	50334BC	Eccentric Shaft	1
4.	50674	Washer, for eccentric shaft	1
5.	50334BB	Collar, for eccentric shaft	1
6.	SS8110422TP	Screw, for collar	2
7.	50337T	Collar, for eccentric shaft	1
8.	SS8110422TP	Screw, for collar	2
9.	661-96	Spring Washer	1
10.	660-969	"O" Ring, for bushing	1
11.	SS8661012TP	Screw, for bushing	1
12.	35036F	Bushing, for stitch adjusting shaft	1
13.	660-220	"O" Ring, for stitch adjusting shaft	1
14.	35036AZ	Brake Pad	1
15.	50634G	Stitch Adjusting Shaft Assembly	1
16.	50335D	Collar	2
17.	22894P	Screw	4
18.	29476UF	Stitch Length Adjusting Rod Assembly	1
19.	660-980	"O" Ring, stitch control shaft	1
20.	50322AR	Shaft, for stitch control	1
21.	660-206	"O" Ring, for stitch control shaft	1
22.	50336Y	Stitch Knob, indicator	1
23.	SS8110422TP	Screw	1
24.	50335	Spring Retainer	1
25.	22714C	Screw, for spring retainer	1
26.	50355	Spring	1
27.	50335A	Spring Holder	1
28.	50336S	Stitch Control Lever	1
29.	661-35	Pin	1
30.	22596H	Screw	2

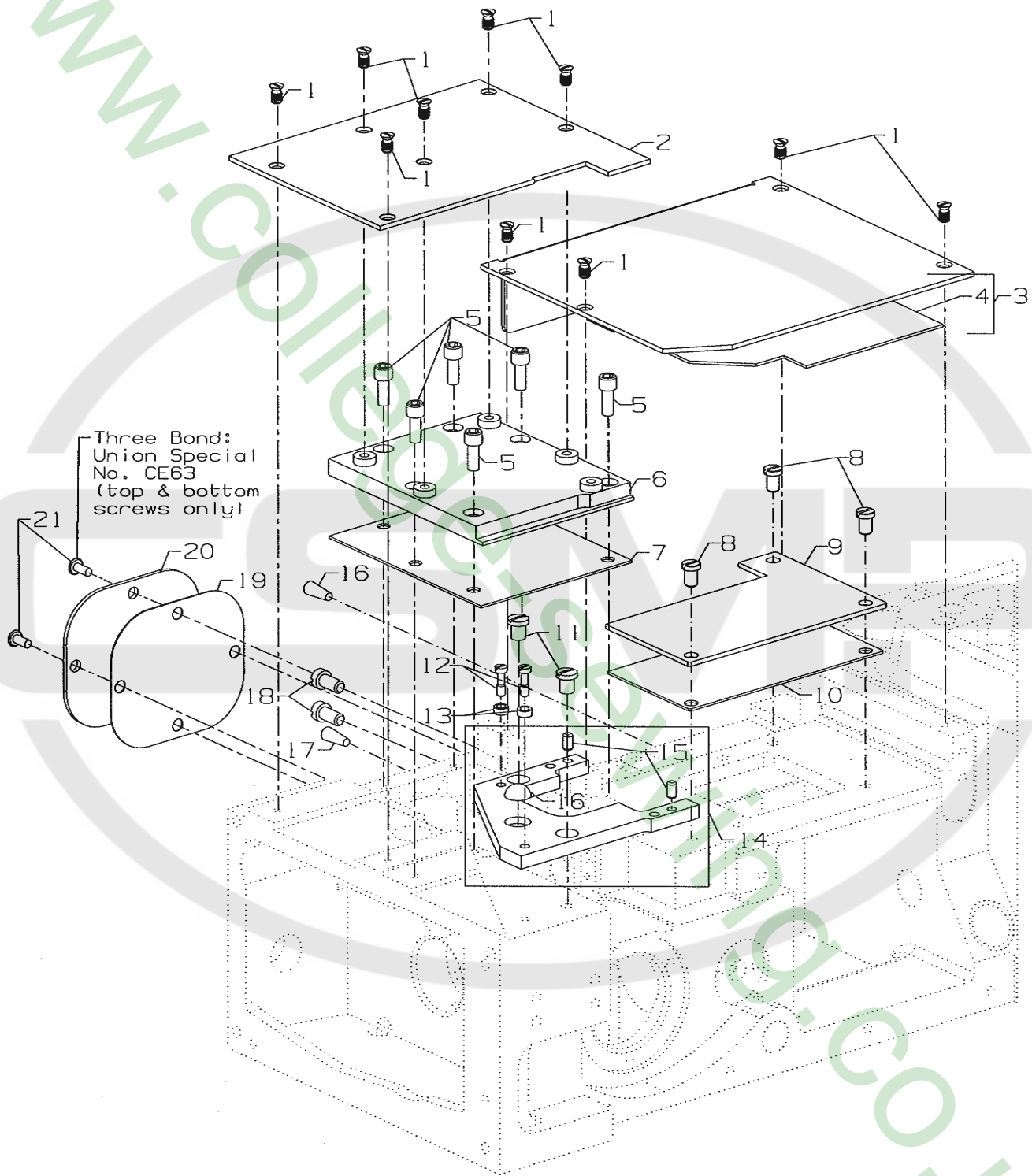




FEED DRIVE MECHANISM FOR DIFFERENTIAL FEED

Ref. No.	Part No.	Description	Amt. Req.
1.	22591A	Screw, for eccentric shaft	1
2.	50334BC	Eccentric Shaft	1
3.	50674	Washer, for eccentric shaft	1
4.	50334BB	Collar, for eccentric shaft	1
5.	SS8110422TP	Screw, for collar	2
6.	50337T	Collar, for eccentric shaft	1
7.	SS8110422TP	Screw, for collar	2
8.	661-96	Spring Washer	1
9.	660-969	"O" Ring, for bushing	1
10.	SS8661012TP	Screw, for bushing	2
11.	35036F	Bushing, for stitch adjusting shaft	2
12.	660-220	"O" Ring, for stitch adjusting shaft	1
13.	35036AZ	Brake Pad	2
14.	50634G	Stitch Adjusting Shaft Assembly	2
15.	50335D	Collar	2
16.	22894P	Screw	4
17.	29476UF	Stitch Length Adjusting Rod Assembly	1
18.	660-980	"O" Ring, stitch control shaft	1
19.	50322AR	Shaft, for stitch control	1
20.	660-206	"O" Ring, for stitch control shaft	1
21.	50336Y	Stitch Knob, Indicator	1
22.	SS8110422TP	Screw	1
23.	50335	Spring Retainer	1
24.	22714C	Screw, for spring retainer	1
25.	50355	Spring	1
26.	50335A	Spring Holder	1
27.	50336S	Stitch Control Lever	1
28.	661-35	Pin	1
29.	22596H	Screw	2

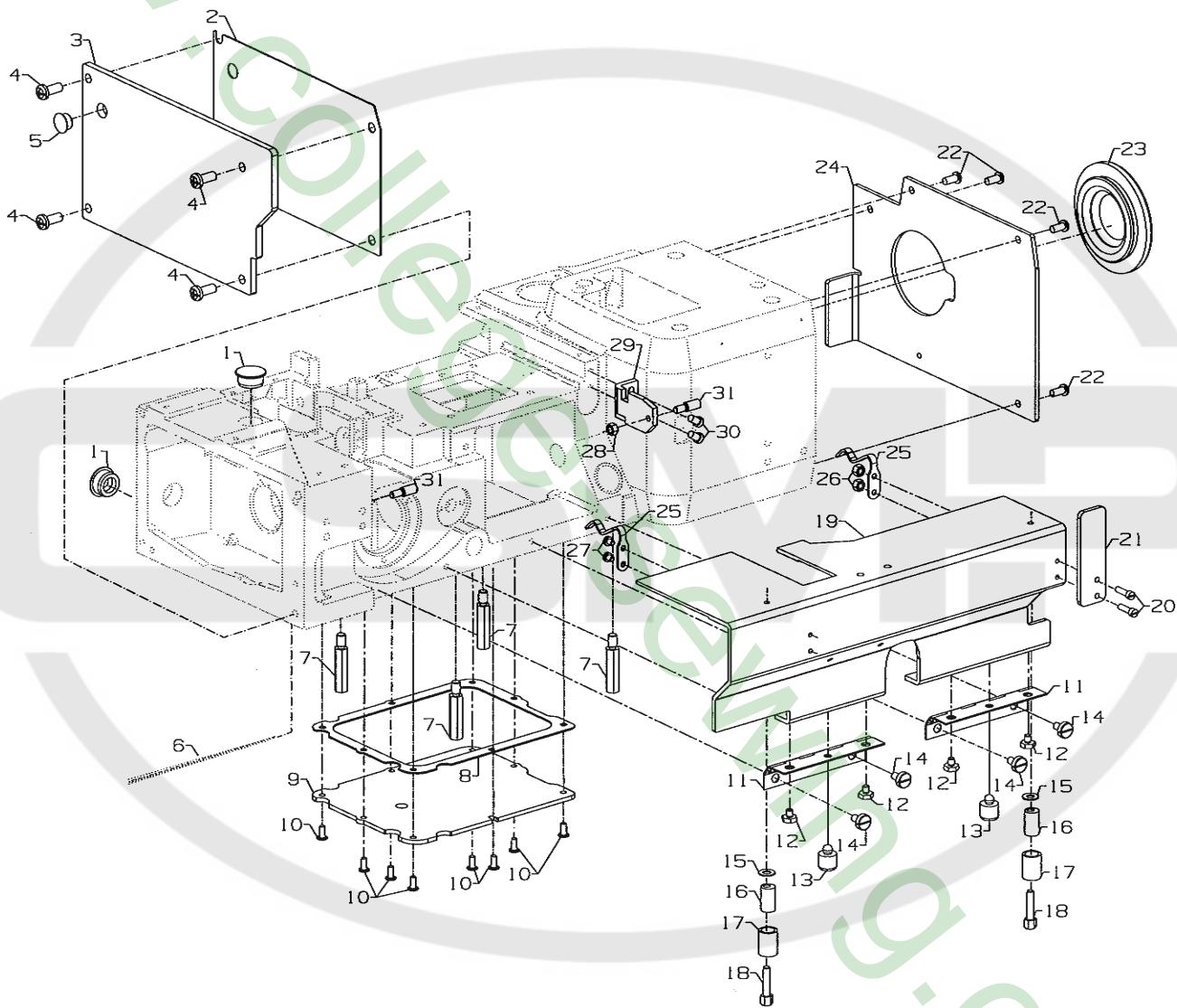
www.colson.co.uk



COVERS, LOWER BED

Ref. No.	Part No.	Description	Amt. Req.
1.	18-1448	Screw	11
2.	50601F	Cloth Plate, left	1
3.	50601E	Cloth Plate, right	1
4.	50303B	Acoustic Pad	1
5.	SS6121212TP	Screw, for cover	6
6.	50382CP	Cover, for feed chamber	1
7.	50382CS	Gasket	1
8.	22839C	Screw, for cover	3
9.	50382JR	Cover, for dry chamber	1
10.	50384K	Gasket, for dry chamber cover	1
11.	SS7150740SP	Screw	2
12.	22587N	Screw	2
13.	35036AE	Ferrule, Locating	2
14.	50380D	Throat Plate Support, complete	1
15.	51280K	Pin	1
16.	660-939	Rubber Bumper, for Throat Plate Support	1
17.	C067D	Cork	2
18.	22517	Screw, for bed	2
19.	50382CR	Gasket	1
20.	50382CL	Cover, rear, for feed chamber,	1
21.	SS4120615SP	Screw, for cover	2
-	CE63	Three Bond Adhesive, (not shown), for screw	-





COVERS, LOWER BED

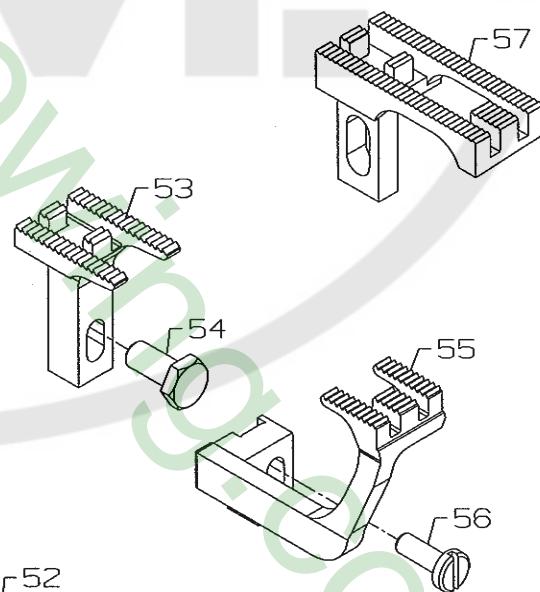
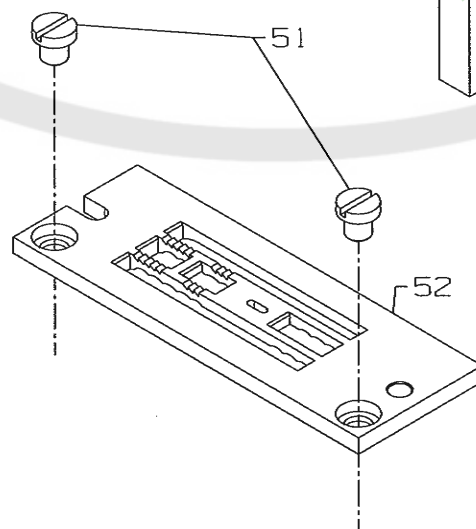
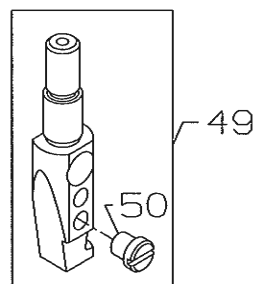
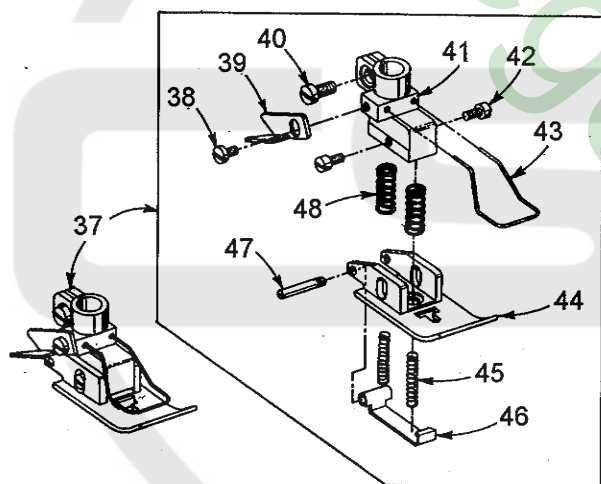
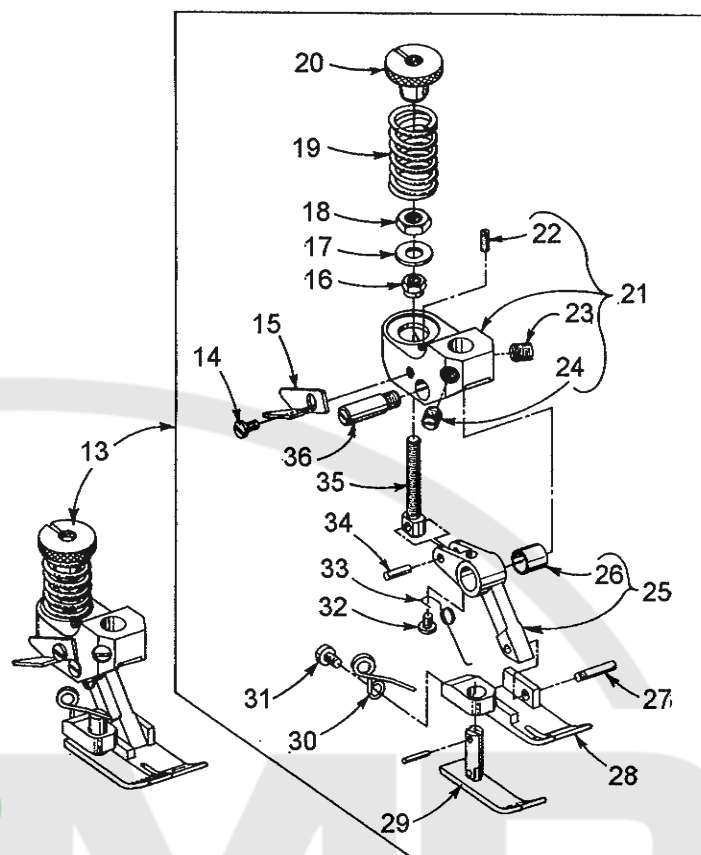
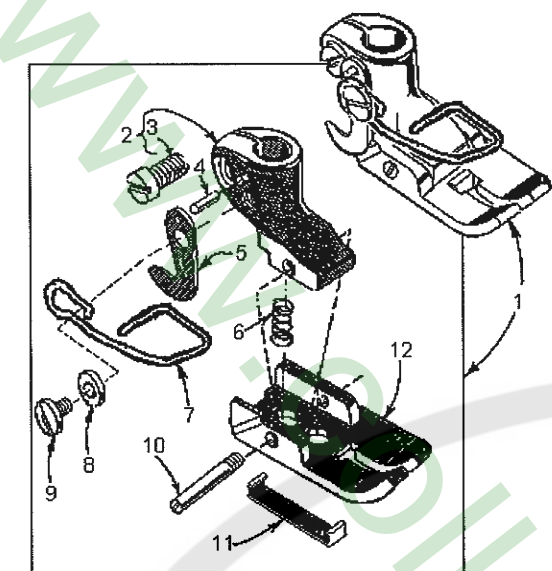
FOR PLAIN FEED

Ref. No.	Part No.	Description	Amt. Req.
1.	50393HB	Plug, for bed	2
2.	50684A	Quad Ring, for left end cover	1
3.	50682B	Left End Cover	1
4.	SS4151415SP	Screw	4
5.	50393HA	Plug	1
6.	WO3	Oil Wick, for needle guard	1
7.	22841U	Machine Support Stud	4
8.	50383G	Gasket, for chamber cover	1
9.	50382CG	Dry Chamber Cover	1
10.	SS7090850SP	Screw	8
11.	50378S	Hinge	2
12.	SS9110543CP	Screw	4
13.	660-1020	Rubber Bumper	2
14.	SS6120930TP	Screw	4
15.	20	Washer	2
16.	50382T	Stop, for front cover	2
17.	50393W	Rubber Bumper	2
18.	22519J	Screw	2
19.	50682D	Swing Down Cover	1
20.	22729D	Screw	2
21.	50363CH	Lever	1
22.	SS4121015SP	Screw	4
23.	50393HU	Plug, right end, non-synchronizer	1
24.	50382CJ	Cover, for drive belt	1
25.	50332A	Latch Spring	2
26.	39250J	Nut	2
27.	22513D	Screw	2
28.	35569J	Nut	1
29.	50332B	Support Block	1
30.	SS7120710SP	Screw	2
31.	22799AH	Spring Latch Stud	2

COVERS, LOWER BED

FOR DIFFERENTIAL FEED

Ref. No.	Part No.	Description	Amt. Req.
1.	50393HB	Plug, for bed	2
2.	50382CM	Quad Ring, for left end cover	1
3.	50382CH	Left End Cover	1
4.	SS4151415SP	Screw	4
5.	50393HA	Plug	1
6.	WO3	Oil Wick, for needle guard	1
7.	22841U	Machine Support Stud	4
8.	50383G	Gasket, for chamber cover	1
9.	50382CG	Dry Chamber Cover	1
10.	SS7090850SP	Screw	8
11.	50378S	Hinge	2
12.	SS9110543CP	Screw	4
13.	660-1020	Rubber Bumper	2
14.	SS6120930TP	Screw	4
15.	20	Washer	2
16.	50382T	Stop, for front cover	2
17.	50393W	Rubber Bumper	2
18.	22519J	Screw	2
19.	50682D	Swing Down Cover	1
20.	22729D	Screw	2
21.	50363CH	Lever	1
22.	SS4121015SP	Screw	4
23.	50393HU	Plug, right end, non-synchronizer	1
24.	50382CJ	Cover, for drive belt	1
25.	50332A	Latch Spring	2
26.	39250J	Nut	2
27.	22513D	Screw	2
28.	35569J	Nut	1
29.	50332B	Support Block	1
30.	SS7120710SP	Screw	2
31.	22799AH	Spring Latch Stud	2

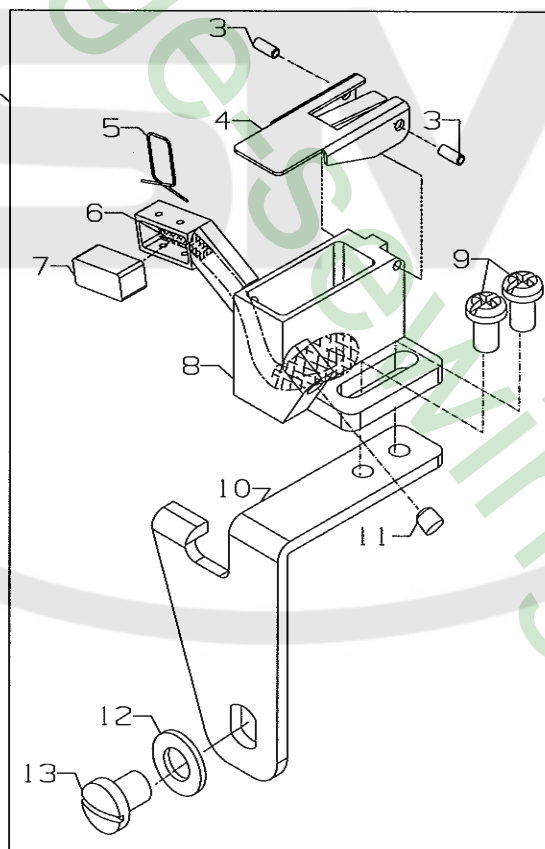
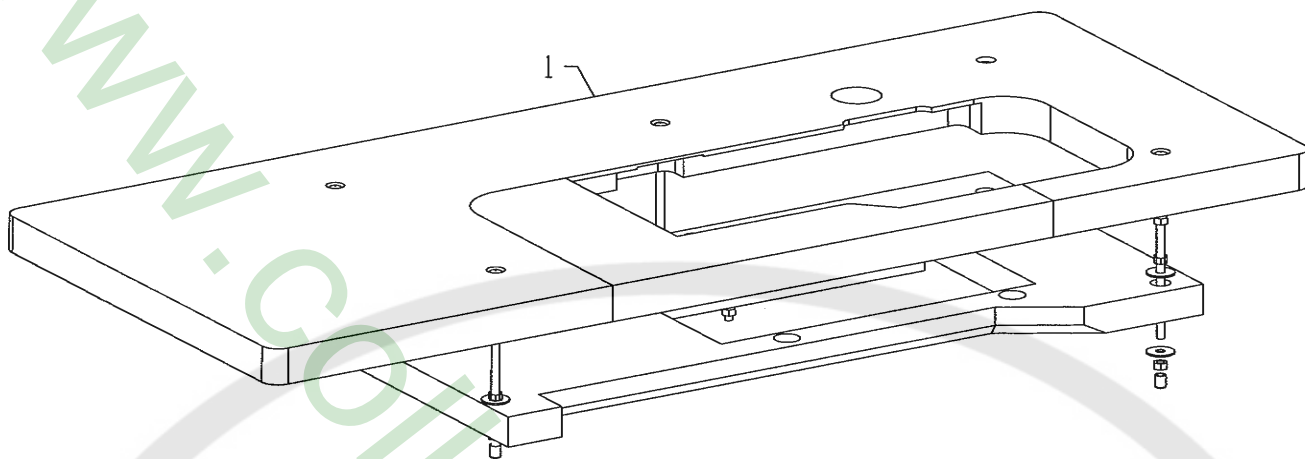


SEWING PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	G51320	Presser Foot Assembly, for sewing comb., (see chart)	1
2.	G51330C	Presser Foot Shank	1
3.	91	Screw	1
4.	1741A	Pin	1
5.	1741B	Knife	1
6.	51390	Spring	1
7.	G21695P	Finger Guard	1
8.	41358	Washer	1
9.	22768	Screw	1
10.	1025104	Pin	1
11.	G51330B	Chaining Section	1
12.	G51330A	Presser Foot Bottom	1
13.	56320H	Presser Foot Assembly, for sewing comb., (see chart)	1
14.	604	Screw	1
15.	52930AC	Chain Cutting Knife	1
16.	51430F	Nut	1
17.	56330AU	Washer	1
18.	41071G	Lock Nut	1
19.	56330AD	Spring	1
20.	56330AH	Nut	1
21.	56330AK	Presser Foot Yoke	1
22.	22785	Set Screw	1
23.	22560B	Screw	1
24.	88	Screw	1
25.	56330AN	Presser Foot Link	1
26.	56330AP	Bushing	1
27.	22799G	Screw	1
28.	56330AL	Presser Foot Bottom	1
29.	56330AM	Yielding Section	1
30.	56330AR	Spring, for yielding section	1
31.	604	Screw	1
32.	73A	Screw	1
33.	56330AX	Spring, tilting	1
34.	56330AJ	Pin	1
35.	56330AG	Screw	1
36.	56330AF	Screw	1
37.	C50020	Presser Foot Assembly, for sewing comb., (see chart)	1
38.	604	Screw	1
39.	52930AC	Knife, chain cutter	1
40.	22562	Screw	1
41.	C50030	Shank, presser foot	1
42.	22784M	Screw	1
43.	C50031C	Guard, finger	1
44.	C50030A	Presser Foot Bottom	1
45.	C50030D	Spring	2
46.	C50030AB	Yielding Section	1
47.	C50030C	Spring	2
48.	22799B	Screw, hinge	1
49.	50618	Needle Head	1
50.	SS6080360SP	Screw	1
51.	22570	Screw, for throat plate	2
52.	-----	Throat Plate, for sewing comb., (see chart)	1
53.	-----	Main Feed Dog, for differential feed, (see chart)	1
54.	18-677	Screw, for main feed dog	1
55.	-----	Differential Feed Dog, for sewing comb., (see chart)	1
56.	SS7091110TP	Screw, for differential feed dog	1
57.	-----	Main Feed Dog, for plain feed, (see chart)	1

SEWING COMB.	MODEL	NEEDLE HEAD	PRESSER FOOT ASSEMBLY	THROAT PLATE	FEED DOG MAIN	FEED DOG DIFFERENTIAL
FS01-1	FS311S01-1M	50618	G51320	50624A	C50005G	
FS02-2	FS311S02-1M		56320R			
FS11-1	FS311S11-1M		56320F	50624	C50005F	
FS12-1	FS311S12-1M		56320H			
FS13-1	FS311S13-1M		56320E	50624B	56305C	
FS14-1	FS311S14-1M		C50020			
FS21-1	FS312S21-1M		C50020	50624	C50005F	
					50605	50626

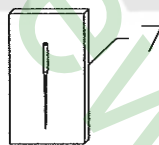
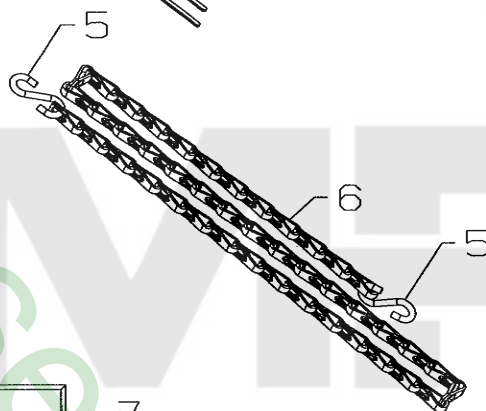
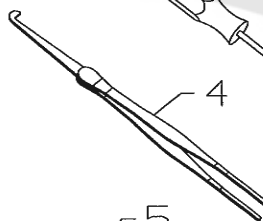
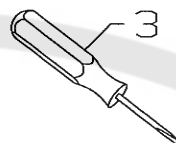
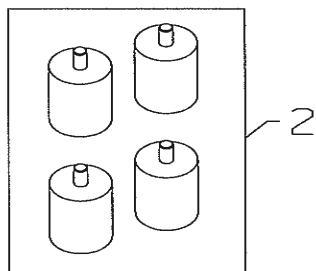
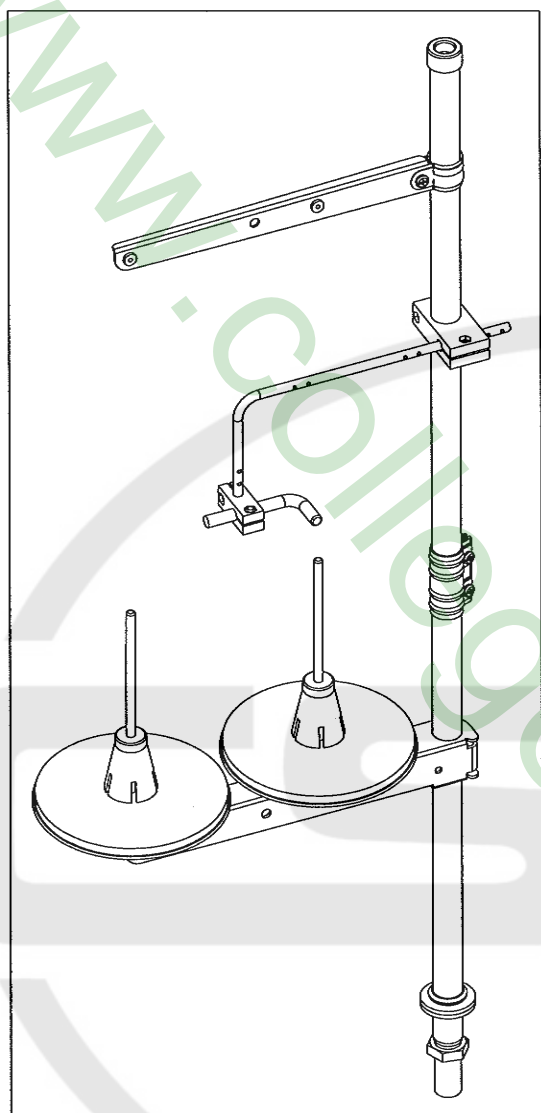




TABLING AND NEEDLE DIPPER ASSEMBLY
(EXTRA SEND CHARGE)

Ref. No.	Part No.	Description	Amt. Req.
1.	21371AAE48	Table Board, for differential feed machines	1
-	21317AAH48	Table Board, for plain feed machines	1
2.	29476RZ	Needle Dipper Assembly	1
3.	PS0160042KH	Roll Pin	2
4.	50393JD	Needle Dipper Cover	1
5.	50393GS	Wire, for needle dipper	1
6.	CQ202000000	Oil Wick, for needle dipper	1
7.	50393GK	Felt, for needle dipper	1
8.	50393JC	Needle Dipper	1
9.	SS4090615SP	Screw, for needle dipper	2
10.	50393GP	Silicone Oil Tank Holder	1
11.	50393GG	Plug	1
12.	WP0531000SD	Washer	1
13.	SS4120615SP	Screw, for needle dipper holder	1





ACCESSORIES

Ref. No.	Part No.	Description	Amt. Req.
1.	21101W2	Thread Stand	1
2.	35095B	Isolator	4
3.	G21201	Screw Driver, for needle head	1
4.	660-240	Thread Tweezer	1
5.	660-264	S-Hook	2
6.	421D34	Chain	1
7.	128GBS075/029	Needles, (package of 10)	1
8.	28604R	Oil, (1 pint)	2



NUMERICAL INDEX OF PARTS

Part No. Page No.	Part No. Page No.	Part No. Page No.	Part No. Page No.	Part No. Page No.
102510455	35036AE49	50336Y45, 47	50382CL49	50393JW19
1107160227	35036AZ45, 47	50337H43	50382CM53	50393JZ19
1107170127	35036BS17	50337J43	50382CP49	50393KF33
1155020925	35036F45, 47	50337K43	50382CR49	50393KH33
1184320833	35095B59	50337L43	50382CS49	50393KM33
1212420223	35569J51, 53	50337M43	50382FW29	50393W51, 53
128GBS075/02959	39250J51, 53	50337R43	50382FX29	50601E49
1376560733	40225	50337S43	50382FY29	50601F49
158B23	41071G55	50337T45, 47	50382FZ29	5061855
1741A55	4135839, 55	50337U43	50382GB29	50622D31
1741B55	421D3459	5033819	50382GM29	50622E31
18-143241, 43	50303B49	50338A19	50382JR49	5062339
18-144849	50304H39	50340D43	50382T51, 53	5063441
18-67755	50304K39	50340E43	50383AE29	50634C41
2051, 53	50304L39	50342AX31	50383E39	50634D41
21101W259	50309F35	50342BE21	50383F39	50634E41
21317AAH4857	5031335	50342BJ35	50383G51, 53	50634G45, 47
21371AAE4857	50313J35	50342BK35	50384A33	5063741
22-34839	50314E35	50342BP35	50384K49	50637A41
22513D51, 53	50314F35	50342BS31	50384L29	50640-1841
2251749	50317B19	50344AM35	5038743	5064235
22517B29	50317C29	50344BC17	5039121	50643A27
22519J51, 53	50321F21	50344BE17	50392AB17	50643B27
22560B55	50321G31	50344BF17	50392AE23	5065417
2256255	50322AF21	50344BU17	50392AV25	50654A17
2256535	50322AG31	50344E17	50392BC25	5065739
2257055	50322AL31	50345W19	50392S23	5066323
22571E33	50322AR45, 47	50351A19	50392W25	5067445, 47
22571L17	50323B39	5035219	50392X25	50682B51
22587N49	50323H39	50354F19	50392Z25	50682D51, 53
22591A45, 47	50323P19	50354L37	50393-14033	50683A23
22596H45, 47	50325AE37	5035545, 47	50393-17033	50684A51
22637P2441	50325AF37	50355AM19	50393-2733	50692B25
22652B1035	50330CZ17	50355AN19	50393-4033	50692G25
22653J835	50332A51, 53	50355AR27	50393-44733	50692H23
22714C45, 47	50332B51, 53	50357AA27	50393-7033	5069629
22729D51, 53	50332S33	50357AP27	50393EB33	51280K49
2276855	50332U17	50357AR23	50393EU29	5139055
22784M55	50332V27	50357AS23	50393EW29	51430F55
2278555	50333A31	50357V23	50393EX33	5149239
22799AH51, 53	50334A41	50357W39	50393EY17	51959B39
22799B55	50334AW43	50357Y23	50393FR33	51959D39
22799G55	50334AX41, 43	50358X19	50393FS33	51959K39
2283723	50334BB45, 47	50363CH51, 53	50393FT33	51959L39
22839C49	50334BC45, 47	5036623	50393FU17	52930AC55
22841U51, 53	50334BD41, 43	50366A23	50393FV33	52958D39
22875N25	50334BE43	50366G23	50393GB33	56320H55
22894C39	50334BH43	50368A37	50393GD33	56330AD55
22894P45, 47	50334J43	50368E37	50393GE17	56330AF55
258A33	50334V43	50368T37	50393GG57	56330AG55
28604R59	50334W41	50368V37	50393GK57	56330AH55
29476RZ57	50334Y41, 43	50368W37	50393GP57	56330AJ55
29476TC19	5033545, 47	50373DA37	50393GS57	56330AK55
29476TG23	50335A45, 47	5037431	50393HA51, 53	56330AL55
29476TK27	50335AF27	50377R39	50393HB29, 51, 53	56330AM55
29476TT27	50335AG27	50378S51, 53	50393HH23	56330AN55
29476UF45, 47	50335AH27	50380D49	50393HJ33	56330AP55
29476UH31	50335AK31	5038127	50393HK33	56330AR55
29476UJ37	50335AM43	50381B27	50393HL33	56330AU55
29476UK39	50335AN43	50381E17	50393HN33	56330AX55
29476UM43	50335BA41, 43	50381F27	50393HR33	56358B23
29476US33	50335BB31	50381G27	50393HU51, 53	56358C23
29476UT33	50335BD21	50382CG51, 53	50393JC57	56358D23
29476VN19	50335D45, 47	50382CH53	50393JD57	56392G25
34393D33	50336S45, 47	50382CJ51, 53	50393JP19	56392H25

NUMERICAL INDEX OF PARTS

<u>Part No.</u>	<u>Page No.</u>	<u>Part No.</u>	<u>Page No.</u>	<u>Part No.</u>	<u>Page No.</u>
56392R	25	G21201	59	SS7121410TP	25
57865	25	G21695P	55	SS7150740SP	49
57892K	25	G51320	55	SS7660520SP	21, 31
604	55	G51330A	55	SS7681410TP	21
605A	23	G51330B	55	SS8090710SP	43
652C16	29	G51330C	55	SS8110422TP	19, 27
660-1014	27	LA452	29	SS8110422TP	37, 43
660-1020	51, 53	NS6110310SP	33	SS8110422TP	45, 47
660-1043	21	NS6110420SP	25	SS8660410SP	31
660-1062	31	NS6150310SP	27	SS8660612TP	21, 31
660-1087	21	NS6620320SP	29	SS8660612TP	33, 35
660-206	45, 47	PS0160042KH	59	SS8660612TP	41, 43
660-220	45, 47	PS0400142KH	17	SS8661012TP	21, 31
660-240	59	RE0500000K0	27	SS8661012TP	45, 47
660-264	59	RM2871B	33	SS8681412TP	21
660-283A	25	RO068190100	27	SS9080410SP	39
660-455	35	RO681190100	43	SS9090420TP	37
660-739	27	SD0380551SL	23	SS9110543CP	51, 53
660-893	35	SD0630275SP	39	SS9111010SP	39
660-934	31	SD0640323TP	29	SS9151740CP	27
660-939	49	SD0790303SP	27	TA075404RO	45
660-969	45, 47	SP0550271TP	43	TA1050504RO	29
660-979	35	SQ1110401MZ	17	TA1100604RO	29
660-980	45, 47	SQ1110402MZ	33	WO3	51, 53
661-259B	19	SS1110640SL	29	WP0531000SD	57
661-261	21	SS1121010SP	23	WS0410002KP	23
661-262	21	SS4080620TP	19	WS0631510KP	33
661-35	45, 47	SS4090615SP	57	WZ0640200KP	39
661-96	45, 47	SS4090815SP	23, 33	WZ0641510KP	29
662-212	29	SS4091015SP	33		
666-328	19	SS4120615SP	29		
666-330	25	SS4120615SP	49, 57		
667J33	35	SS4120915SP	23		
73A	55	SS4120915SP	25, 29		
77B	39	SS4121015SP	51, 53		
88	55	SS4121215SP	27		
91	55	SS4121215SP	29, 43		
98A	23	SS4121615SP	29		
99682XC	29	SS4151415SP	51, 53		
99682XCB	29	SS6080360SP	55		
998-358F	33	SS6090440SP	19		
B1647704000A	43	SS6090620SP	19		
B3103804000	25	SS6091022TP	43		
B3112704000	25	SS6110610TP	27, 39		
B3120352000	25	SS6110650TP	43		
B3120704000	25	SS6120930TP	51, 53		
B3121804000	25	SS6121010SP	19		
B3126012000	25	SS6121212TP	49		
B3530555000	29	SS6151812TP	33		
C067D	49	SS6151920SP	27		
C50020	55	SS6153040SP	27		
C50030	55	SS7060310SP	39		
C50030A	55	SS7080520SP	19, 39		
C50030AB	55	SS7090520SP	25		
C50030C	55	SS7090530SP	41, 43		
C50030D	55	SS7090610SP	23, 43		
C50031C	55	SS7090850SP	51, 53		
C50044E	23	SS7090910TP	23		
C50056B	27	SS7091110TP	55		
C50056J	27	SS7092110TP	39		
CE27	19	SS7111120TP	19, 21		
CE49	27	SS7120640SP	23, 29		
CE59	19	SS7120710SP	23, 33		
CE63	19, 35, 49	SS7120710SP	51, 53		
CQ202000000	57	SS7120910SP	35		



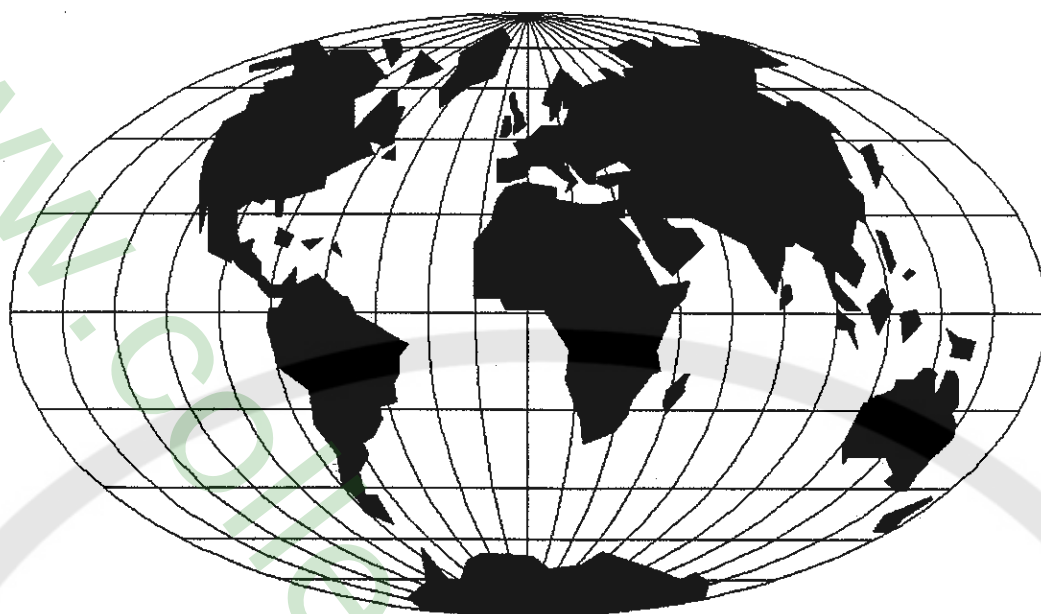
NOTES

www.collegeofsewing.co.uk

CSMP

NOTES





WORLDWIDE SALES AND SERVICE

Union Special Corporation maintains sales and service facilities throughout the world. These offices will aid you in the selection of the right sewing equipment for your particular operation. Union Special Corporation representatives and service technicians are factory trained and are able to serve your needs promptly and efficiently. Whatever your location, there is a qualified representative to serve you.

Brussels, Belgium
Charlotte, N.C.
El Paso, TX
Hong Kong, China
Huntley, IL
Leicester, England
Lille, France
Miami, FL
Milan, Italy
Möglingen, Germany
Montreal, Quebec
Osaka, Japan
Santa Fe Springs, CA

Other Representatives throughout
all parts of the world.



Union Special
INDUSTRIAL SEWING EQUIPMENT