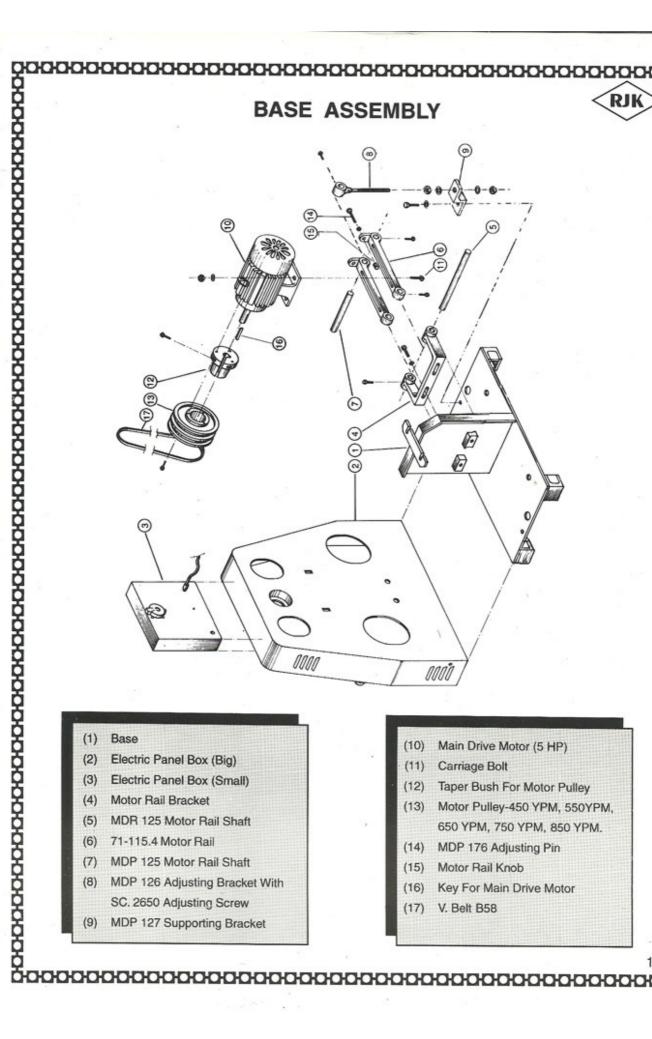
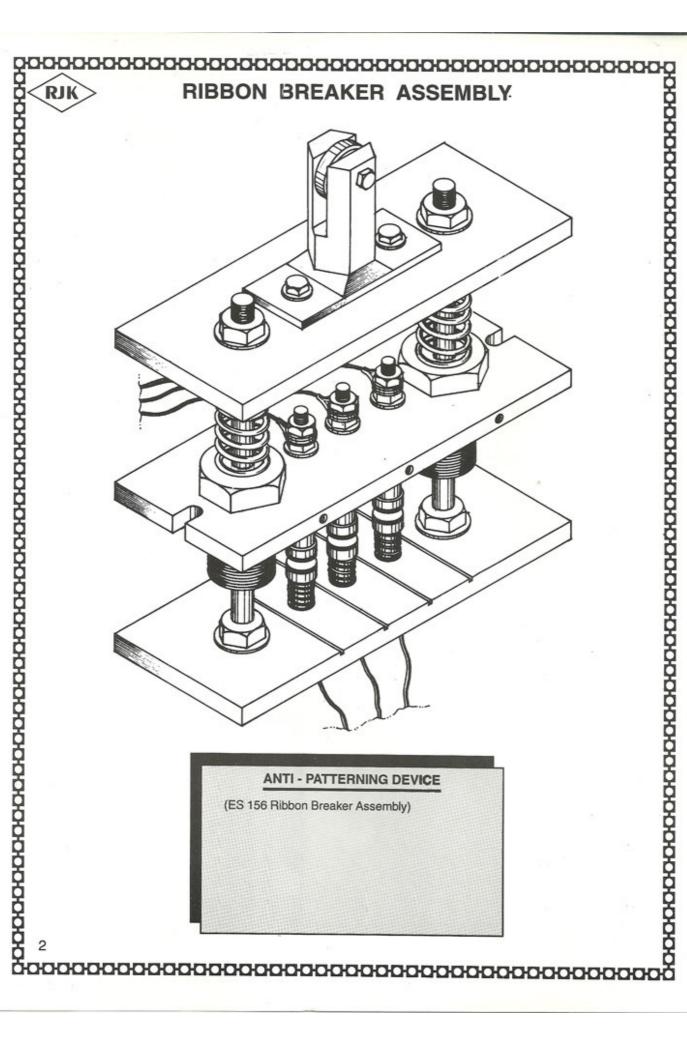


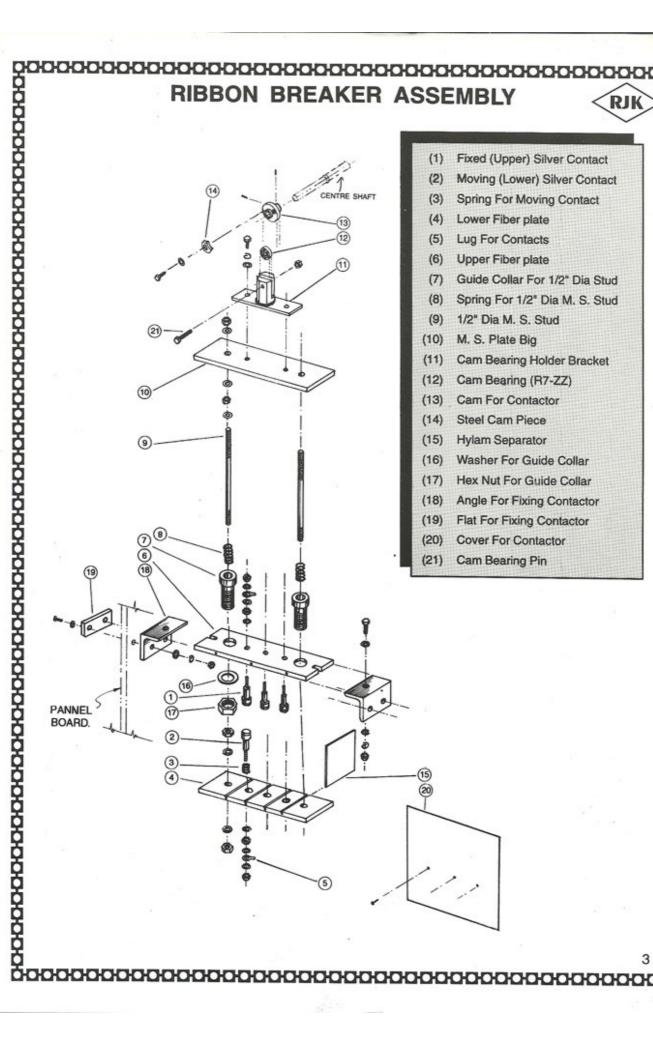
CATALOGUE FOR RJK CONE WINDING MACHINE PARTS

INSTRUCTION FOR INSTALLATION & MAINTENANCE

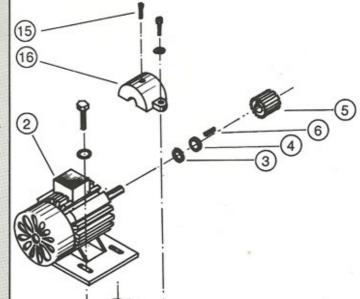


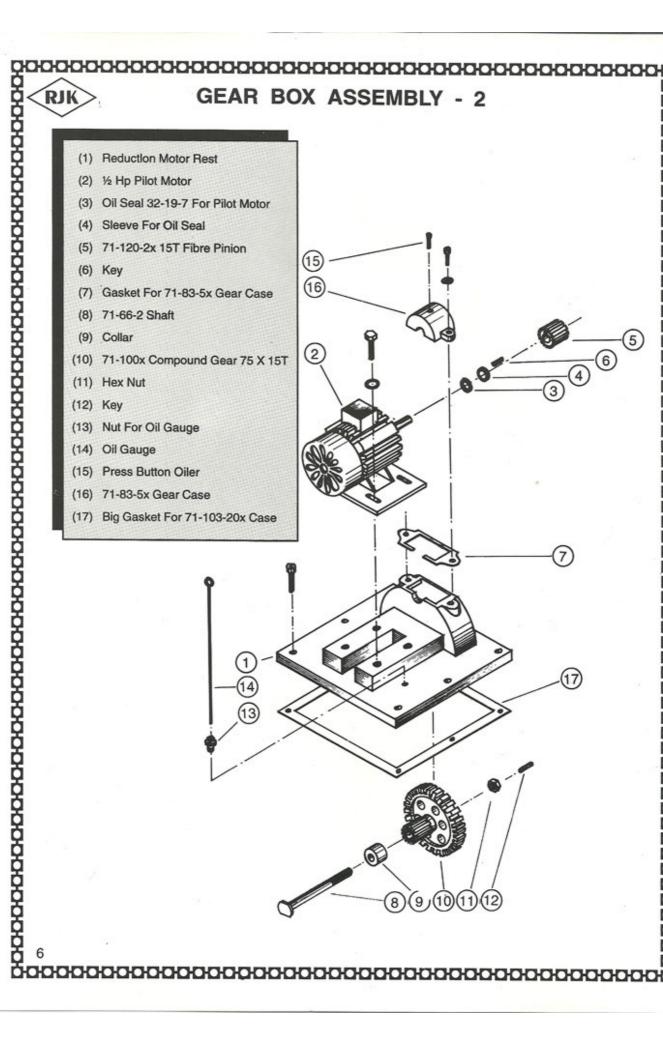


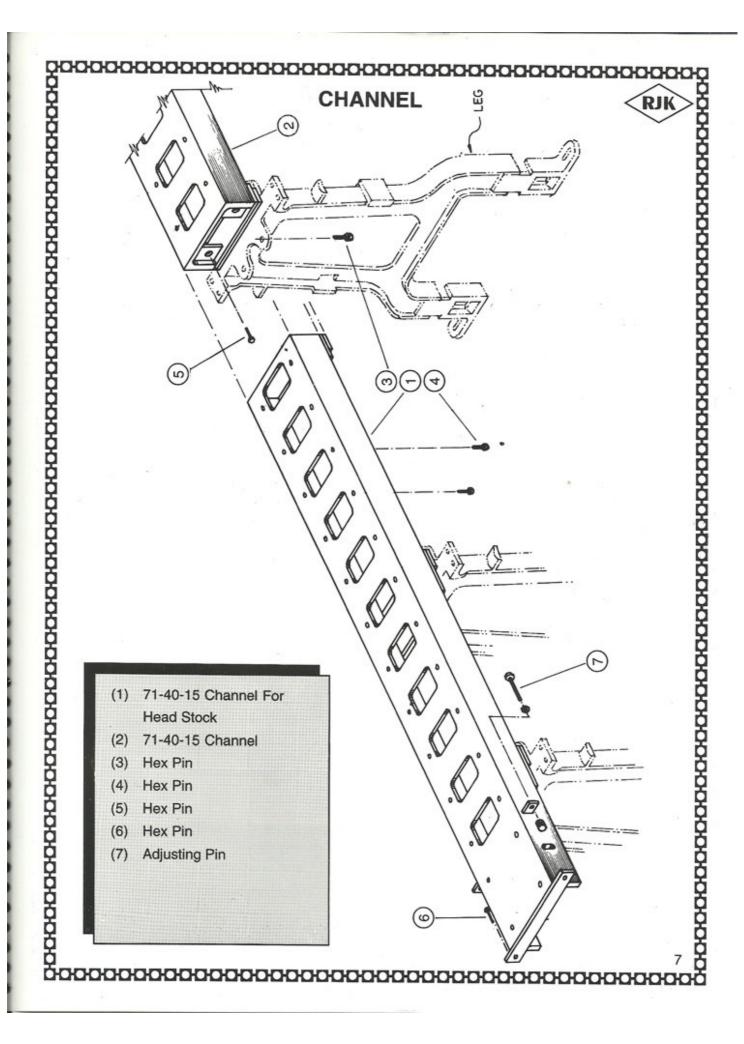


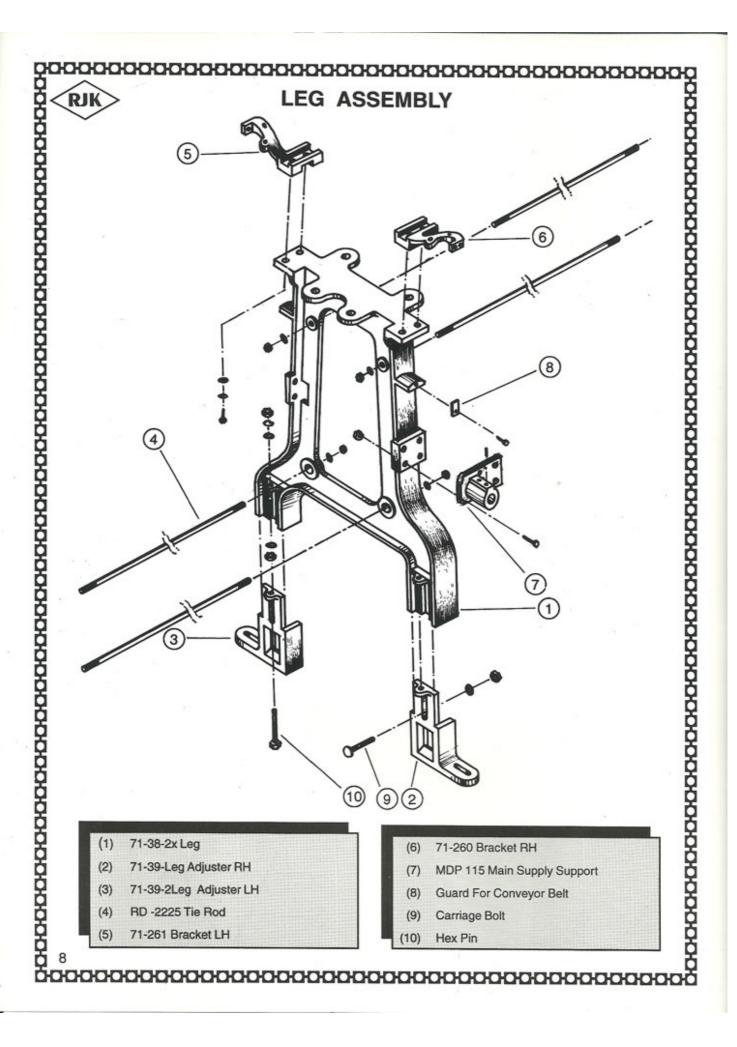


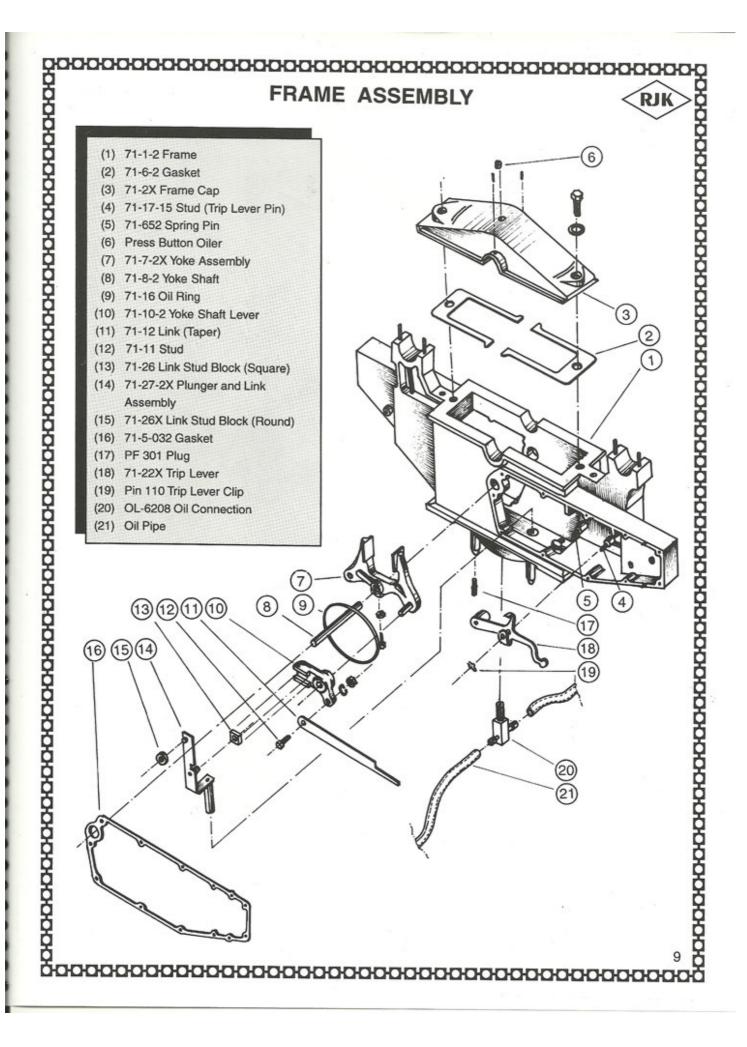
(1) 71-103-20X Case
(2) 71-67-3 Shaft
(3) 71-310 Spacer
(4) Key
(5) 71-101-2 Gear 90T
(6) Small Spacer
(7) Gil Ring
(8) 71-109-3X Spiral Gear 18T
(9) Key
(10) Spacer
(11) 38* Dia Stud
(12) 71-252-4 Shaft (For Conveyor)
(13) 71-109-3X Spiral Gear 18T
(14) Key
(15) Spacer
(16) Key
(17) Spacer
(18) Ball Bearing -LS10
(19) G-Box Oil Seal (Big) For Conveyor
(20) 71-60-4X Cap
(21) 71-65-3 (Gear Box Drum Shaft)
(22) Ball Bearing 2C57 ZZ
(23) 1302 Star Washer (Small)
(24) Nut for Gear Box Drum Shaft (Small)
(25) 71-61-6 Inner Cap
(26.27) Ball Bearing Sc07 ZZ
(27) 1304 Star Washer (Big)
(29) Nut for Gear Box Drum Shaft (Big)
(30) 71-61-6 Bearing Cap
(31) Traverse Pulley 'B'
(32) Key
(33) Ball Bearing LS10
(34) Oil Seal (Big)
(35) Bearing Cover (for Conveyor Shaft)
(36) Oil Indicator
(37) 'O' Ring For Small Sleeve
(38) 71-53XX Sleeve Small
(39) Rubber Ring

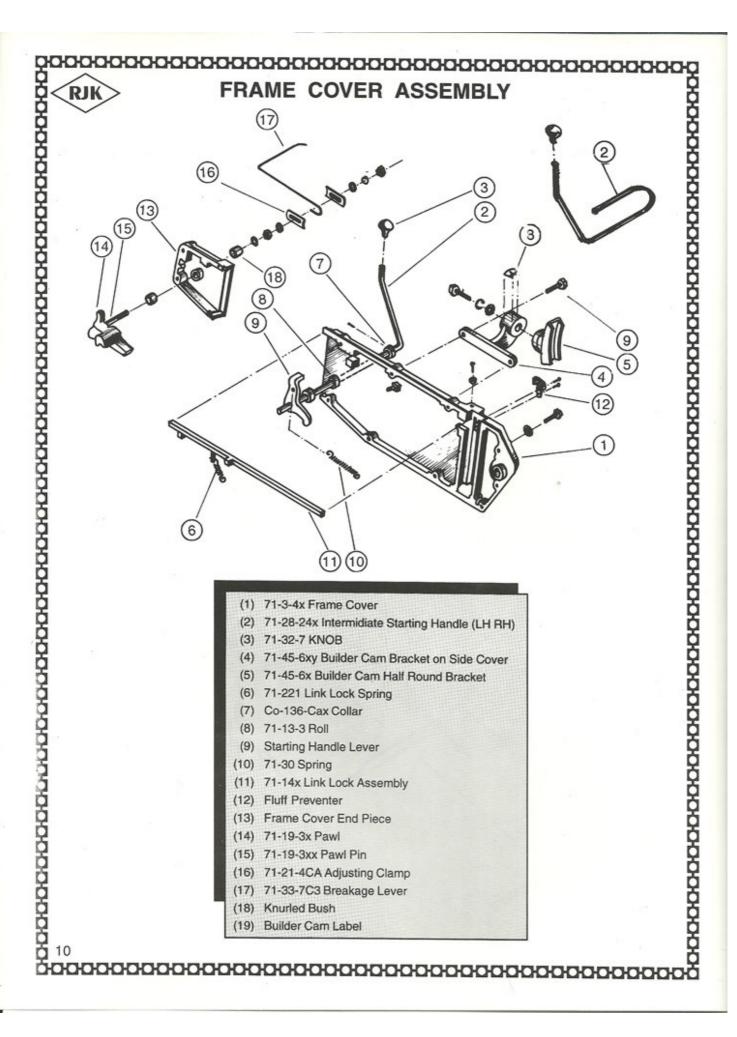


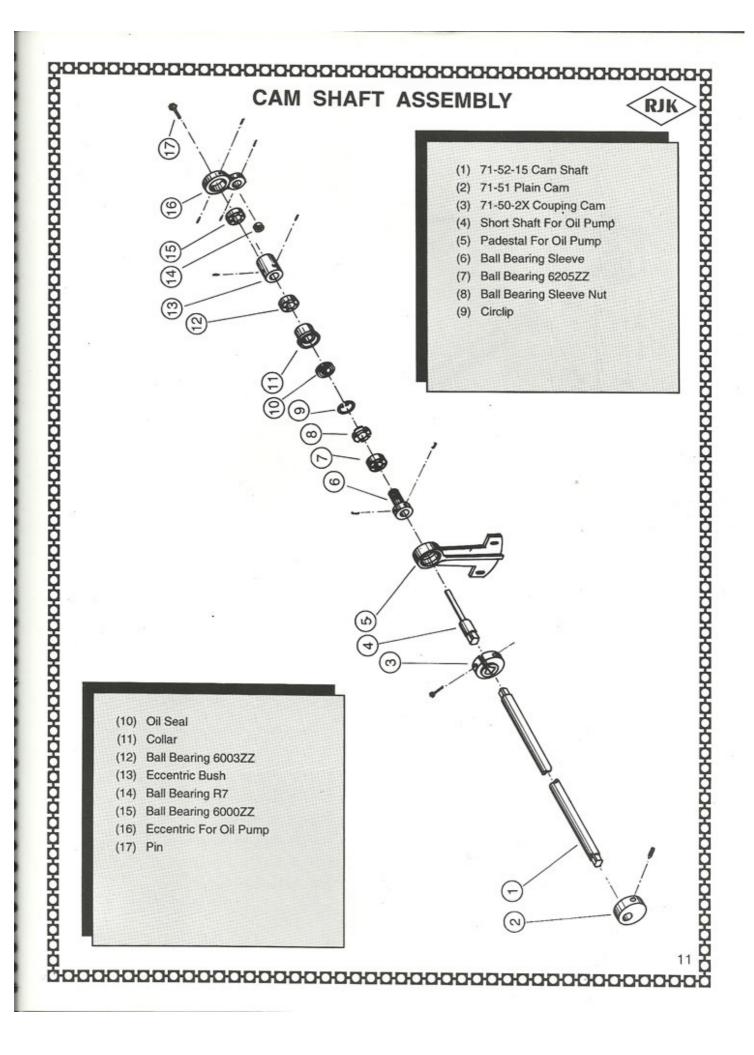


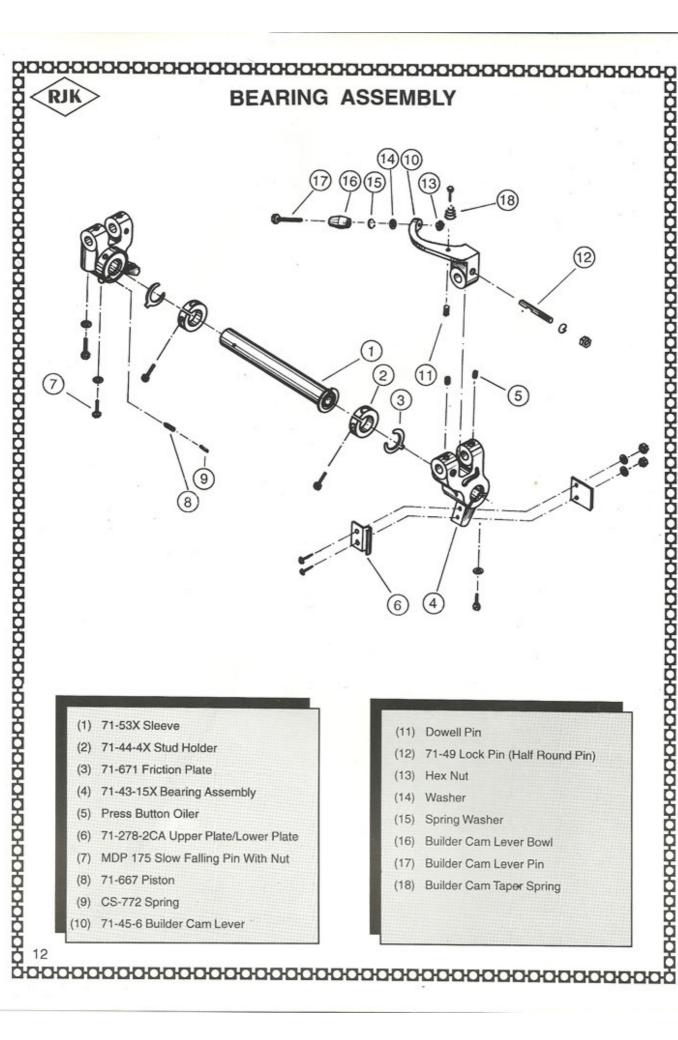




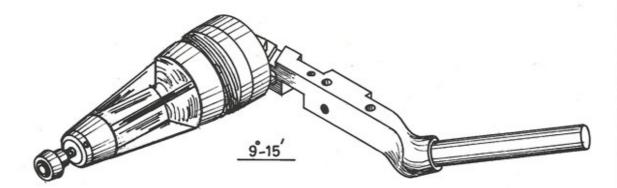


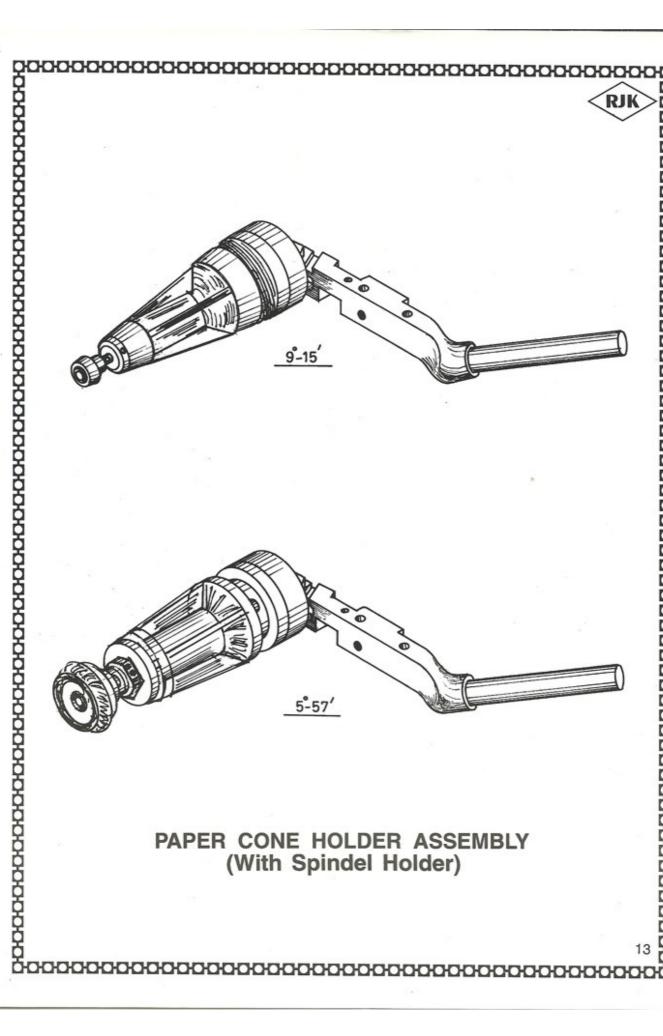


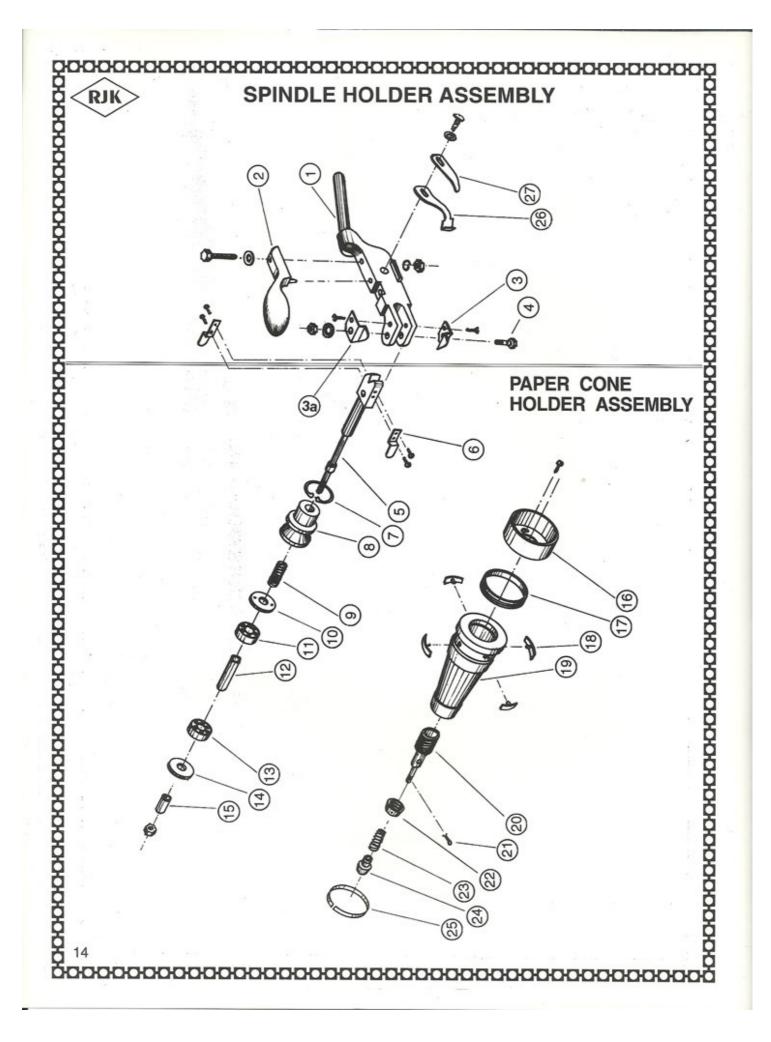






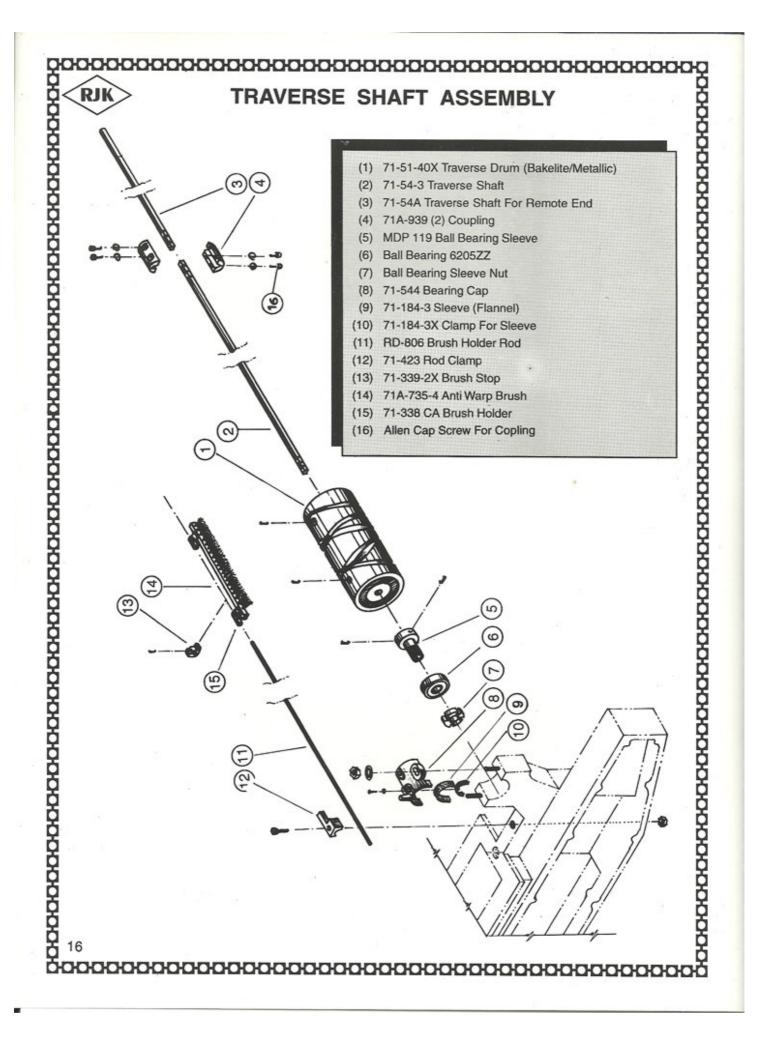


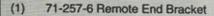


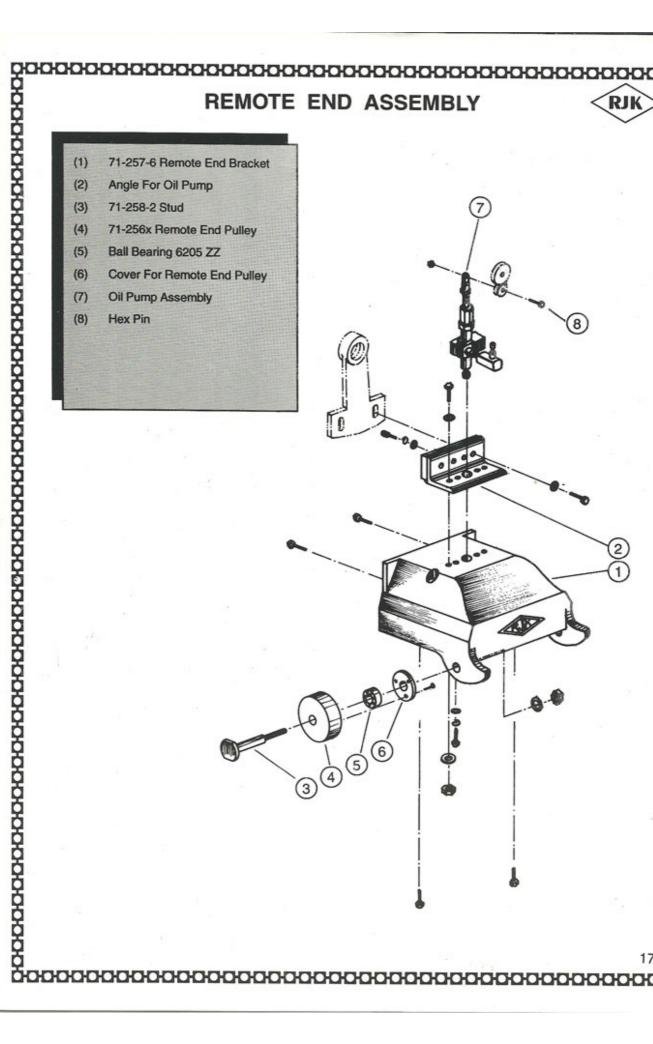


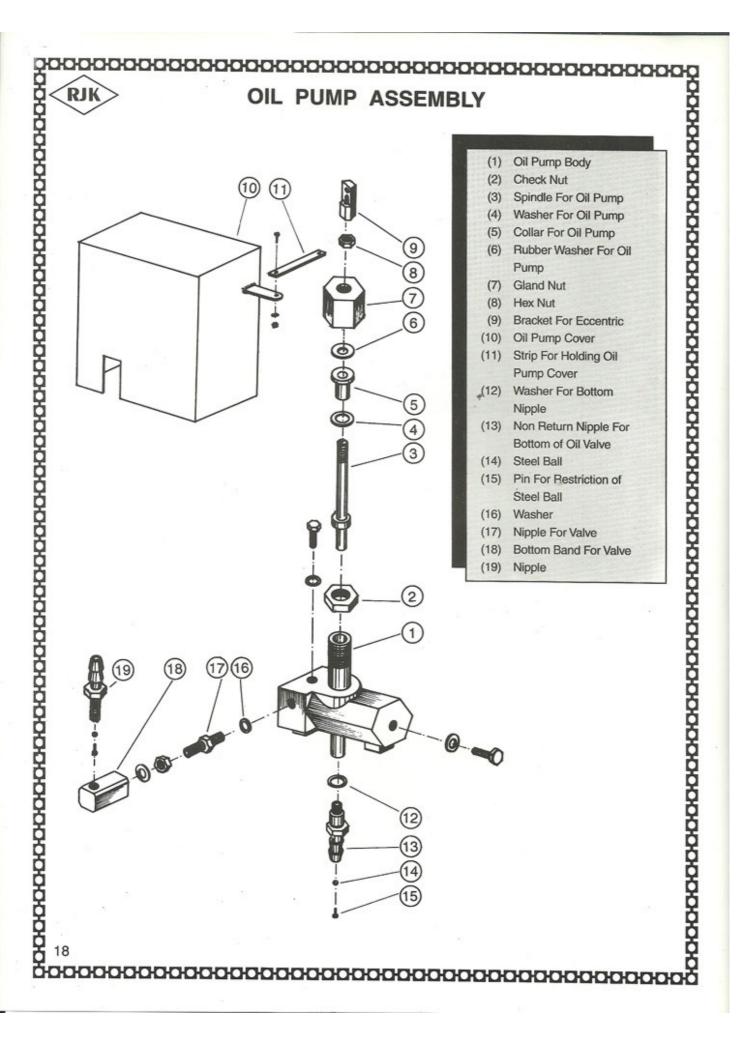
(1) 71-41-18 Spindle Holder (2) 71-89-13X Weight (3) 71-398 Lower End (4) 71-822 Stud (Spindle Holder Oil Pin) (5) Spindle For Paper Cone (6) M. S. Guard For Spindle (7) Circlip (8) Steel Collar (Specify Degree) (9) Sping (10) Check Nit Big (11) Ball Bearing 6000ZZ (12) Spacer Big (13) Ball Bearing 6000ZZ (14) Check Nut Small (15) Spacer Small (16) Plastic Guard (17) Rubber Band (18) Paper Cone Dog (Specify Degree) (19) Paper Cone Adaptor (Specify Degree) (20) Pin For Plastic Top (21) Cotter Pin (22) Check Nut Taper (23) Spring For Plastic Top (24) Plastic Top (25) Ball Band (Steel) (26) 71-42-2 Spindle Holder Spring Big (27) 71-42-2X Spindle Holder Spring Small

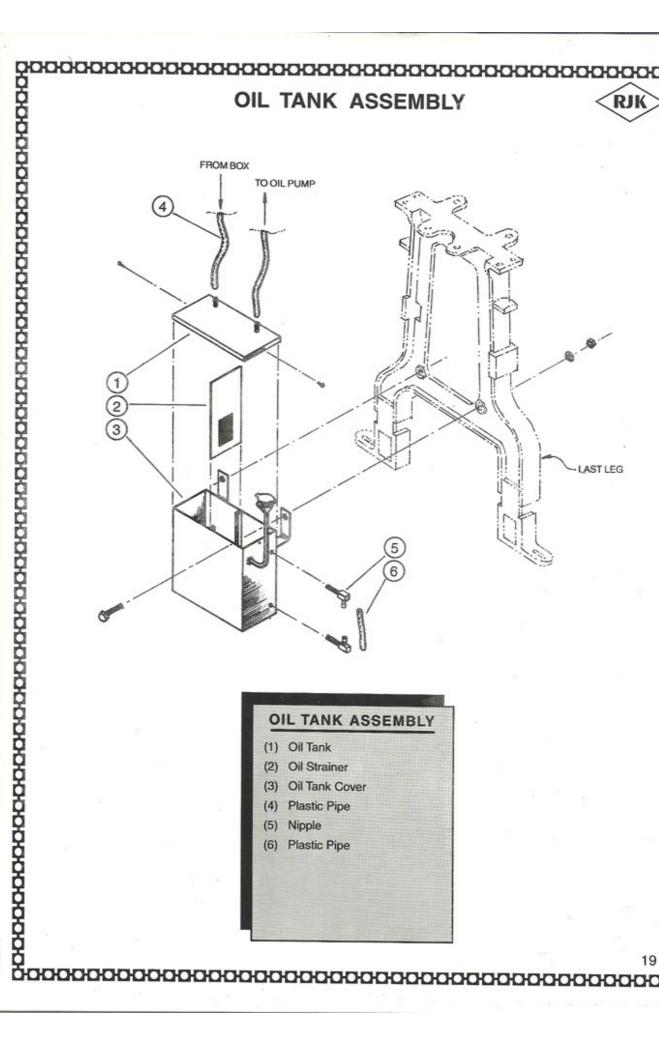


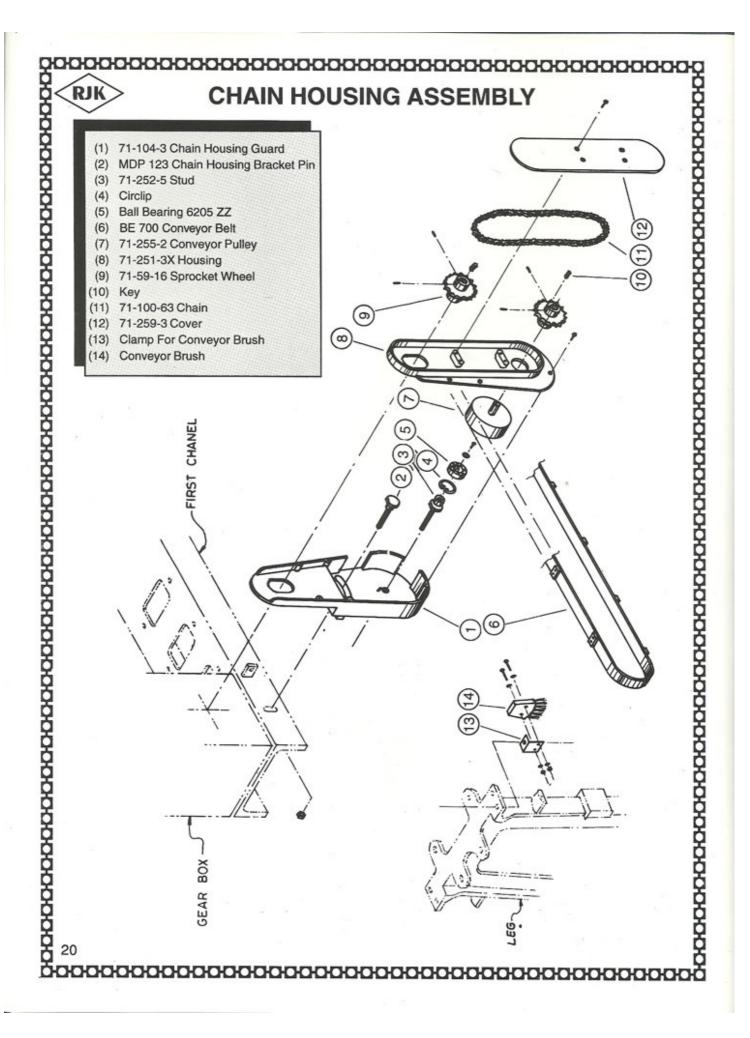


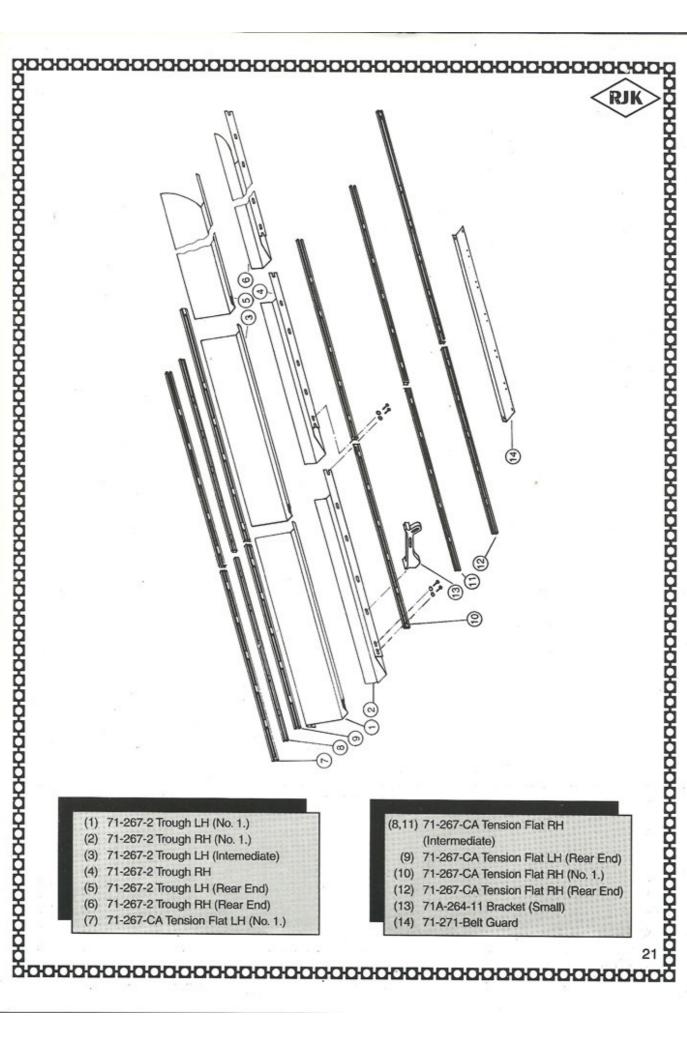


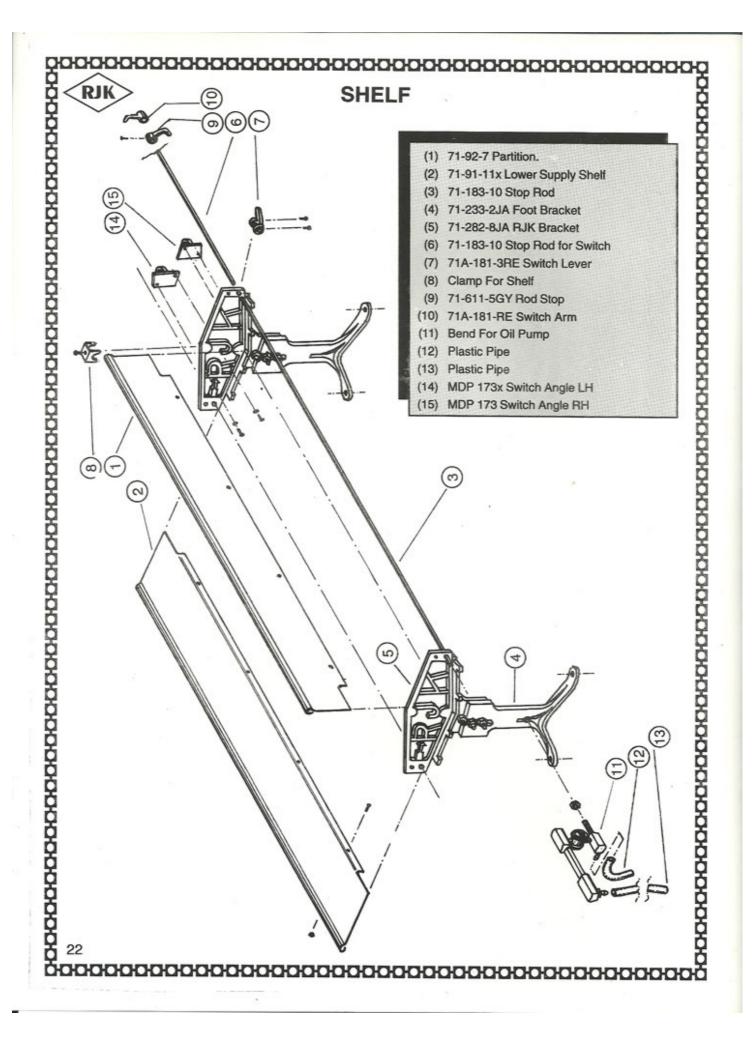




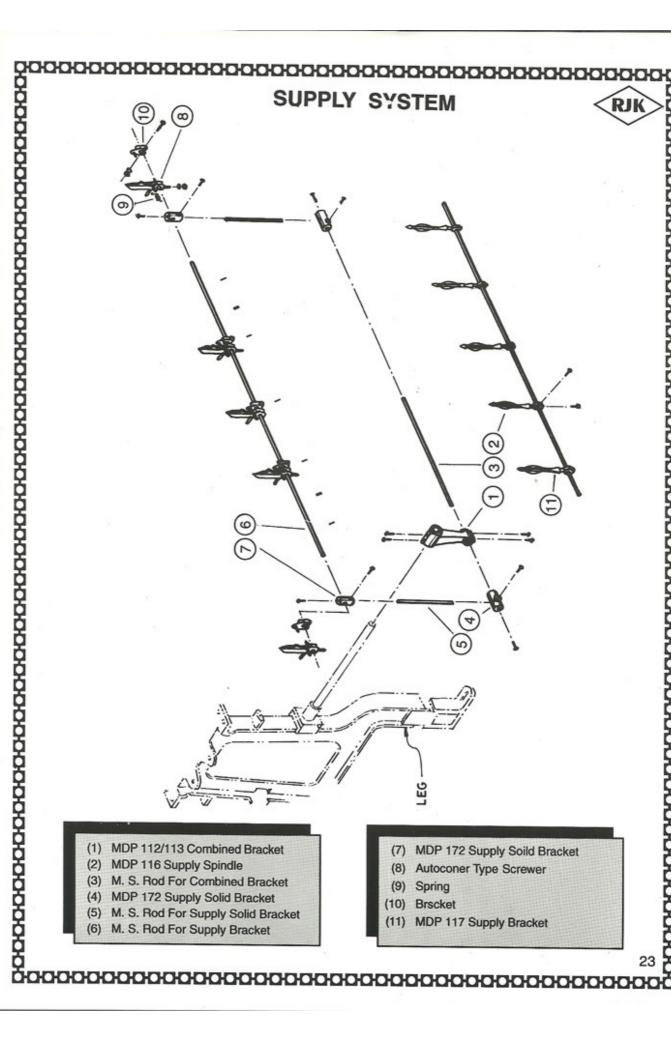


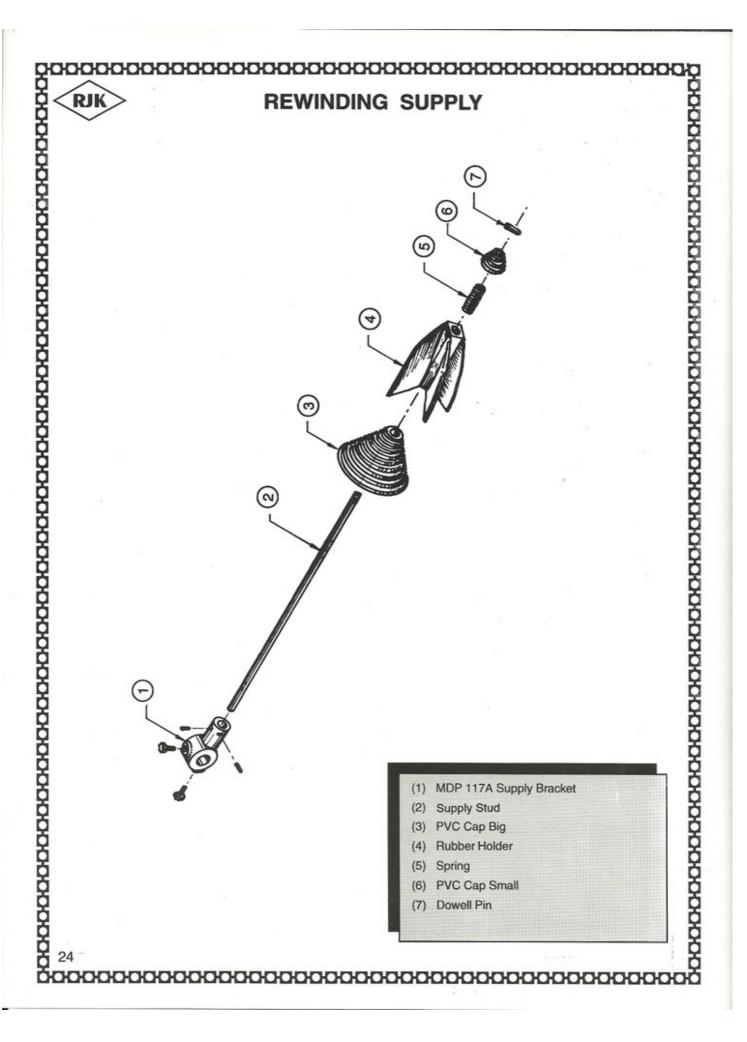


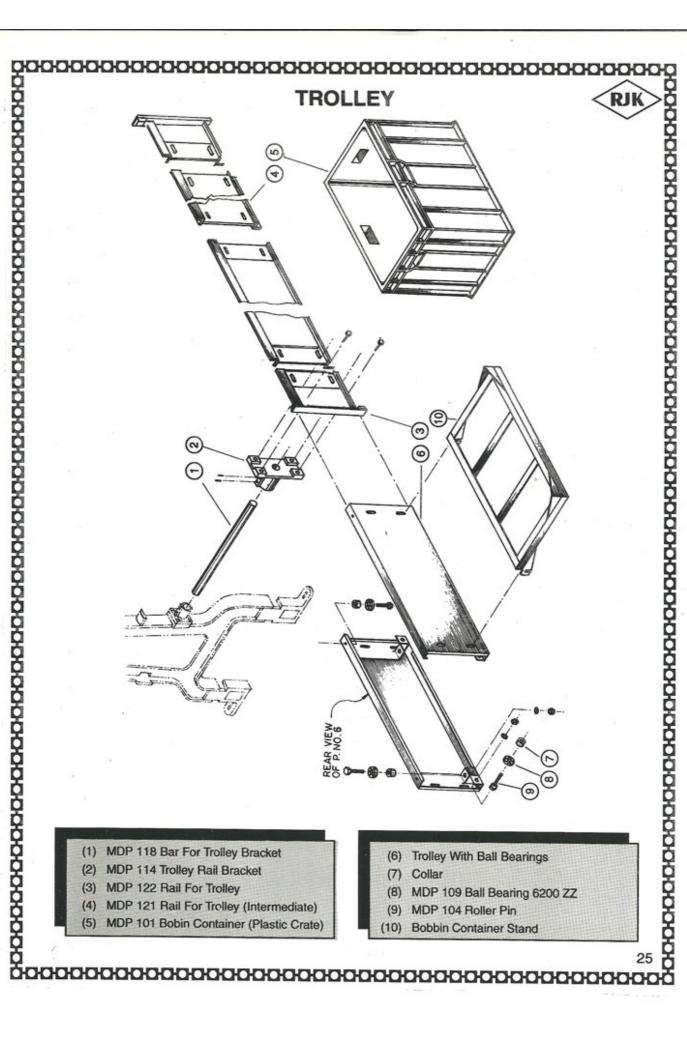


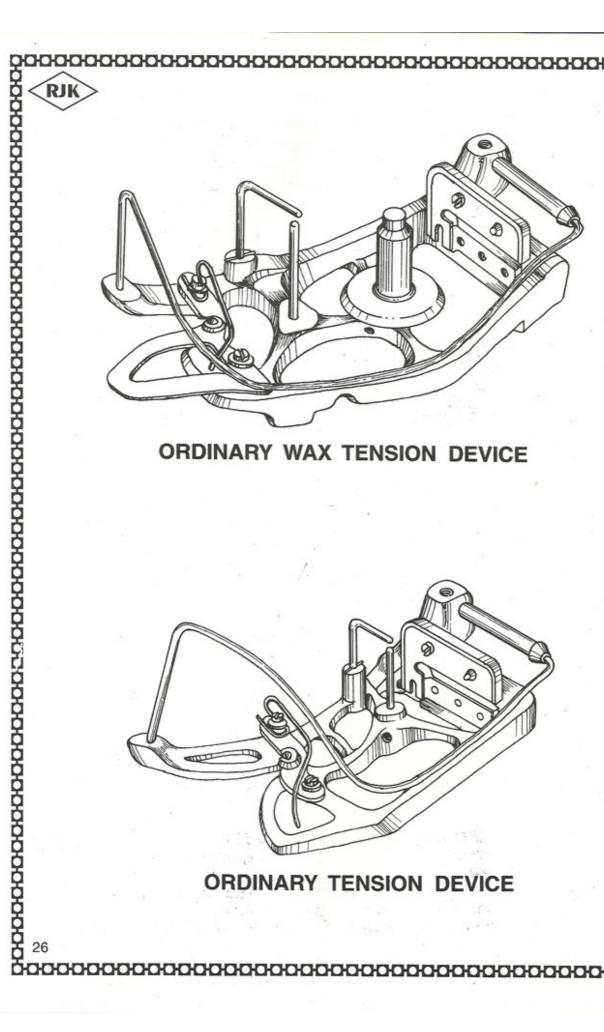


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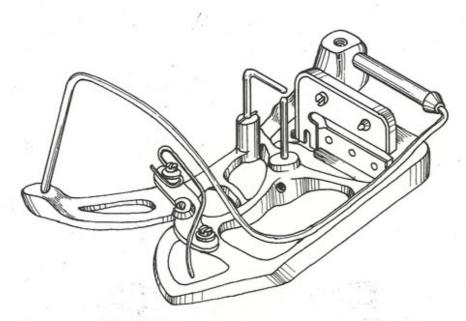


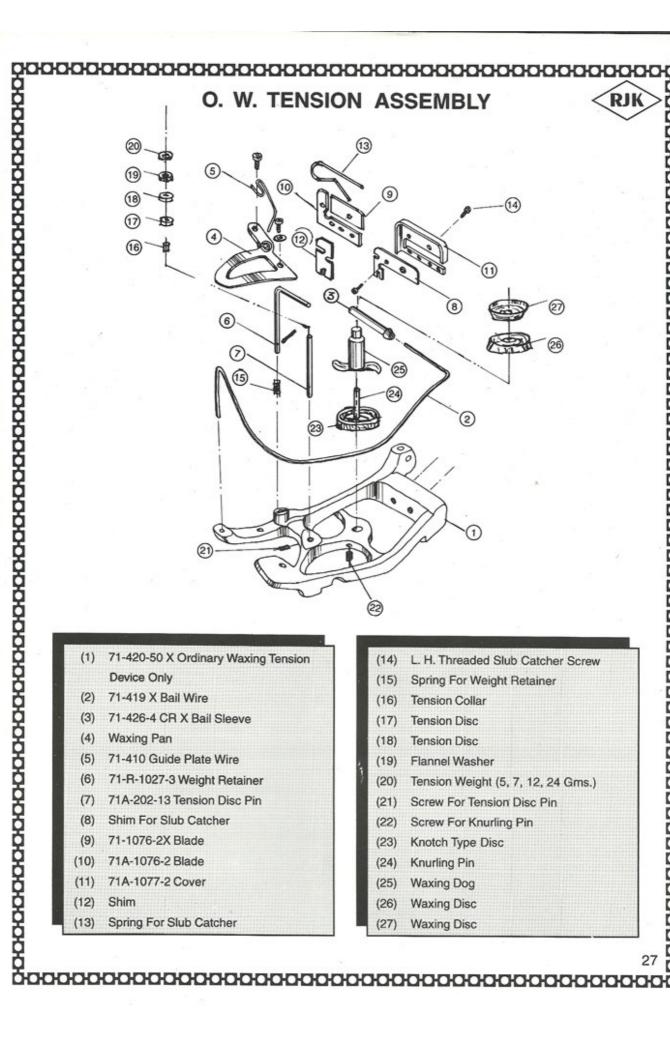




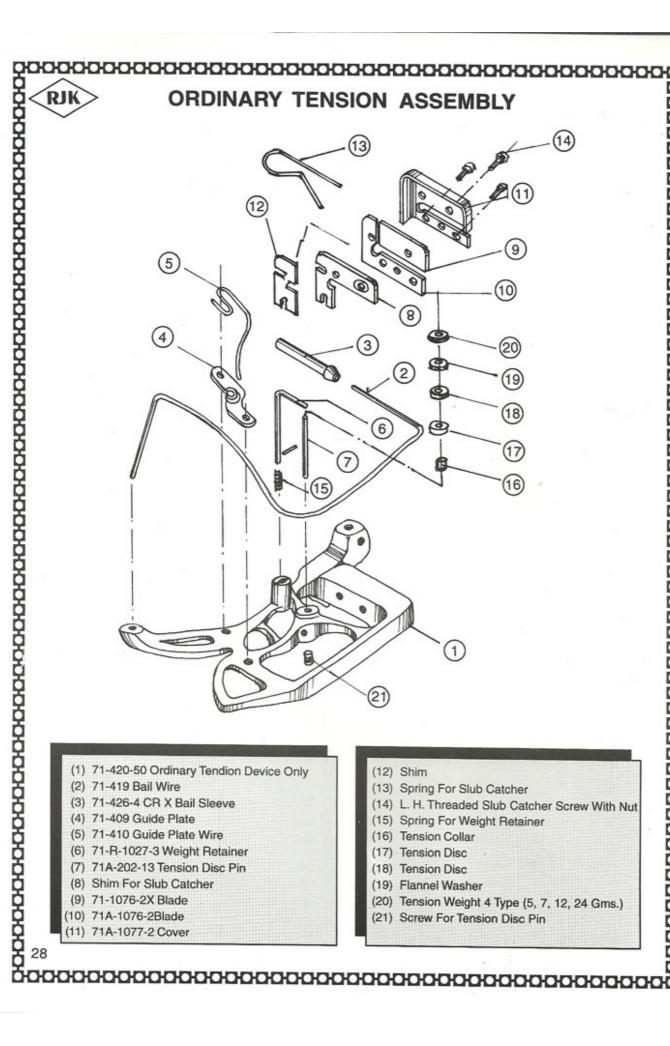


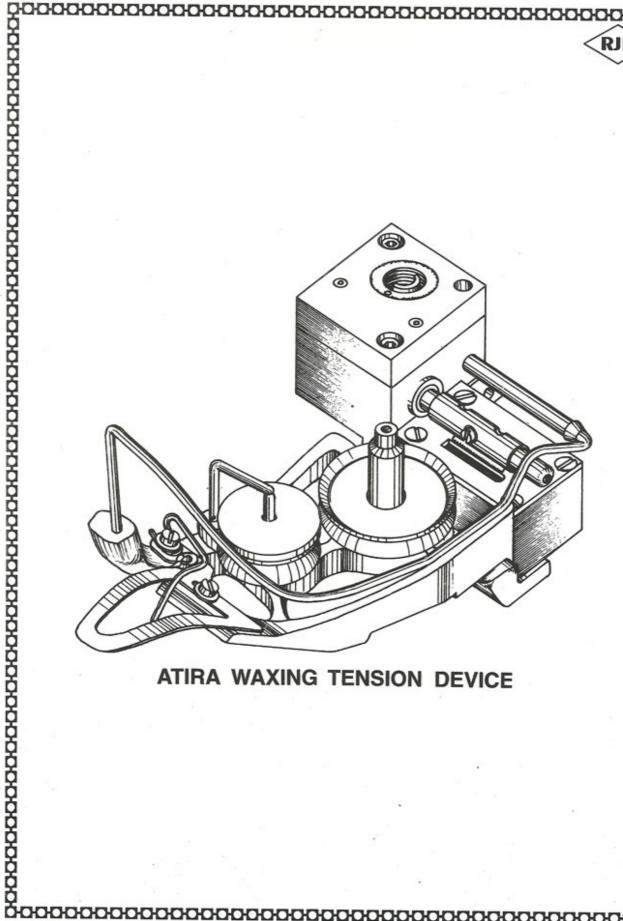
ORDINARY WAX TENSION DEVICE



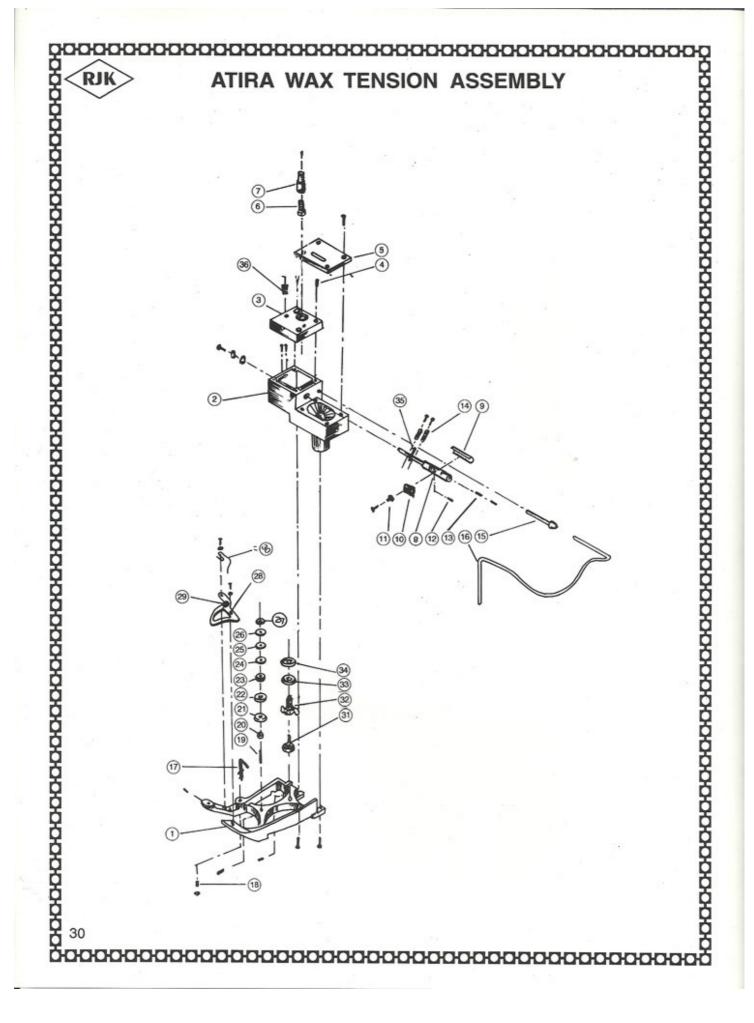






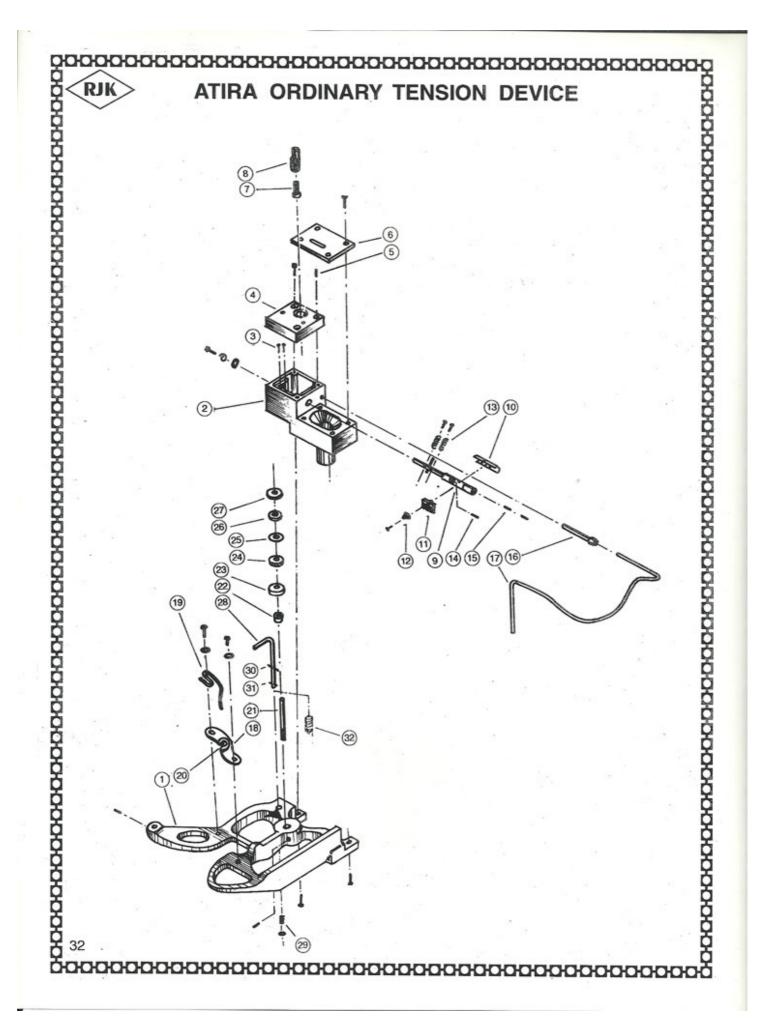


ATIRA WAXING TENSION DEVICE



(1) ATIRA Wax Tension (Only)
(2) ATIRA Slub Catcher Body
(3) Square Cover With Nut
(4) Allen for Ball Wire
(5) Platform
(6) Setting Allen With Slot
(7) Worm
(8) Spindle for ATIRA Slub Catcher
(9) Serrated Blade Cover
(10) Serrated Blade Cover
(10) Serrated Blade Spring
(12) Pivot Small
(13) Pivot Lock Screw
(14) Tension Spring For Spindle
(15) 71/429-4-CFIX Ball Sileeve
(16) 71-419 Ball Wire
(17) 71-R-1027-3 Weight Retainer
(19) 97-1-202-1-3 Tension Disc
(20) 71-A-175-2 Collar
(21) 71-A-153-17 Tension Disc
(22) Filension Disc
(23) Filension Disc
(24) Wa-801 CA Tension Weight Write (7 gm)
(25) Wa-801 CA Tension Weight Write (7 gm)
(26) Wa-801 CA Tension Weight Write (7 gm)
(27) Was One Catension Weight Write (7 gm)
(28) Wa-801 CA Tension Weight Write (7 gm)
(29) Was One Catension Weight Write (7 gm)
(20) Was One Catension Weight Wr





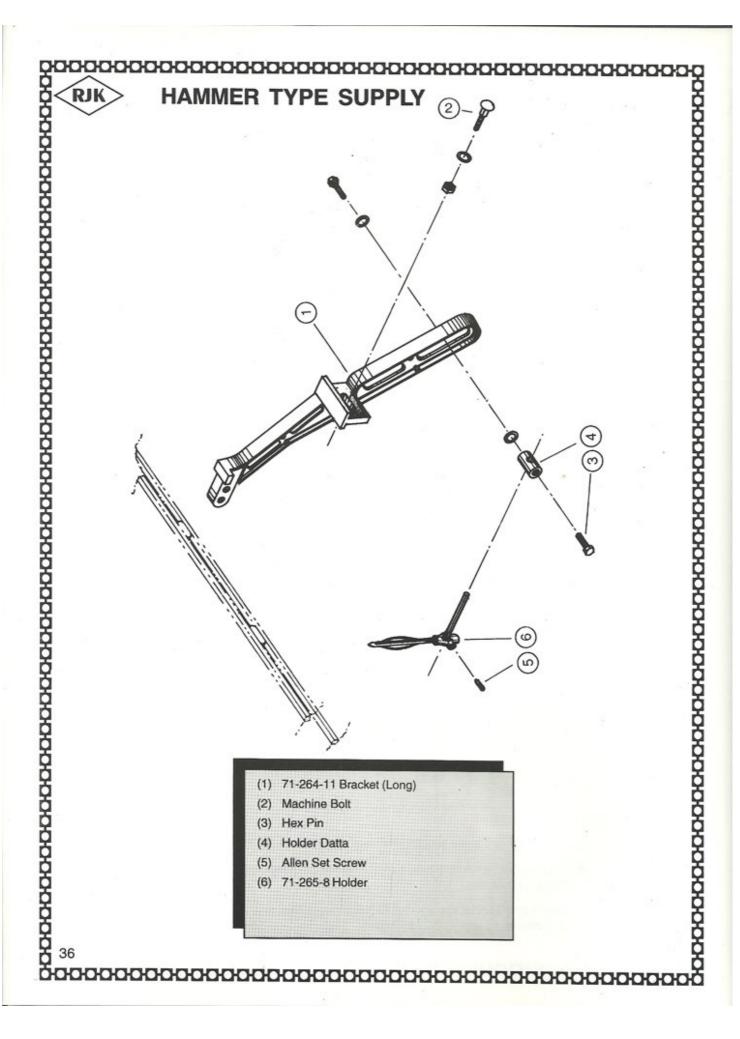
(1) ATIRA Ordinary Tension
(2) ATIRA Slub Catcher Body
(3) Screw for Tension Spring
(4) Square Cover with Nut
(5) Allen For Bail Wire
(6) Platform
(7) Setting Allen With Stot
(8) Worm
(9) Spindle For ATIRA Slub Catcher
(10) Serrated Blade Cover
(11) Serrated Blade
(12) Serrated Blade Spring
(13) Tension Spring For Spindle
(14) Phot Small
(15) Phot Lock Screw
(16) 71/A26-4CRX Bail Sleeve
(17) 71-419 Bail Wire For (Alira Ordinary)
(18) Waxing Pan
(19) 71-409 Guide Plate Wire
(20) Yarn Guide
(21) 171-475-2 Collar
(23) 71A-153-17 Tension Disc
(24) 71A-153-17 Tension Disc
(25) Flannel Washer (Banat)
(26) WA-801 CA Tension Weight Red (5 gm)
(27) Wa-801 CA Tension Weight Retainer
(30) Locking Pin
(31) Locking Pin
(31) Locking Pin
(31) Lock Screw For Wax Knurling Pin
(32) Spring For L Wire

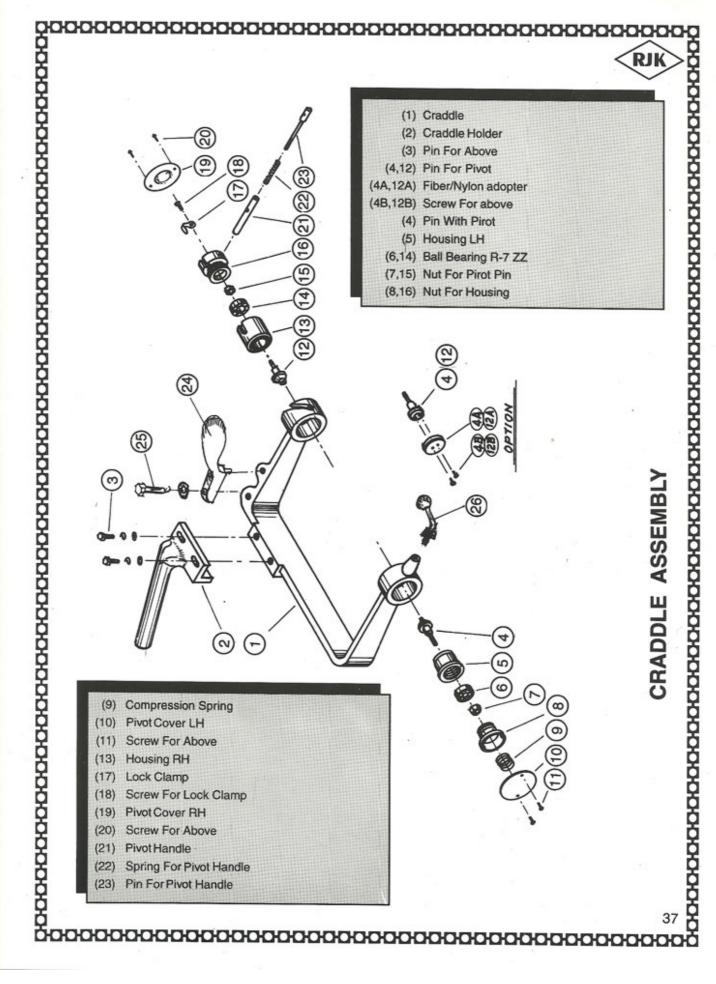


	TED TENSION WEIGHTS AT HIGH SPEED WINDING (WINDING SPEED UPTO 650 MPM)				
Count (Ne)	Tension Weight (including disc and flannel) Grams				
9-14	32.5-35.5				
18-22	19.5-22.5				
24-28	16.0-18.0				
30-32	15.0-16.0				
34-36	14.0-15.5				
40-44	13.0-15.0				
50-60	10.0-12.0				
70-80	8.0-10.0				
100-120	6.0-6.5				

SUGG				O 650 MPM)		IDING		
	Count (Ne)			Tension Weight (including disc and flannel) Grams				
9-	14			5,000	-35.5			
18-22		19.5-22.5						
24-	-28	16.0-18.0						
30-	-32		15.0-16.0					
34-	-36			14.0	-15.5			
40-	-44			13.0	-15.0			
	-60			10.0	-12.0			
	-80	8.0-10.0						
100-	-120			6.0	-6.5			
- 10	SL	UB CATC	HER SETT	TING (THO	U)			
Yarn	Yarn	Fixed	Fixed Blade Serrated Oscillating Blade					
Count (Ne)	Dia (Thou)	Carded	Combed	Combed	Carded	Light Combed		
10	11.38	26.30	21-25	40-48	36-44	57-65		
12	10.39	24-28	19-23	36-44	32-40	52-60		
14	9.62	22-26	17-21	34-42	30-38	48-56		
16	9.00	20-24	16-20	32-40	28-36	45-53		
18	8.48	19-23	15-19	30-38	26-34	42-50		
20	8.05	18-22	14-18	28-36	24-32	40-48		
24	7.35	17-20	13-16	26-32	23-29	36-44		
28 30	6.80	16-19	12-15	24-30	21-27	33-41		
32	6.57 6.36	15-18	12-14	23-29	20-26	32-40		
34	6.17	15-17 14-17	11-14 11-13	22-28	19-25	32-38		
36	6.00	14-17	10-13	22-28	19-25	31-37		
38	5.84	13-16	10-13	21-27 21-26	18-24	30-36		
40	5.69	13-15	10-13	20-25	18-23 17-22	29-35 28-34		
44	5.43	12-15	10-12	19-24	16-21	27-33		
50	5.09	11-14	9-11	18-23	15-20	25-31		
60	4.65	10-13	8-11	16-21	14-19	23-29		
70	4.30	10-12	8-10	15-19	13-17	22-26		
80	4.02	9-11	7-9	14-18	12-16	20-24		
90	3.79	8-11	7-9	13-17	12-15	19-23		
100	3.60	8-10	6-8	13-16	11-15	18-22		
110	3.43	-	6-8		11-14	-		
120	3.29	-	6-7	-	10-13	_		

S	STEEL JAWS GAP SETTING YARN COUNT JAWS GAP SETTING IN 1/100 mm. No. Carded Cotton Rayon, Synthetic Staple Staple							
YARN	COUNT	JAWS GAP SETTING IN 1/100 mm.						
No.	Carded Cotton Yarn	Combed Cotton, Rayon, Synthetic Staple	Artificial Silk	Wool & Woo Blended Yarr				
4s	81	70	58	81				
6s	66	57	47	66				
8s	57	49	41	57				
10s	51	44	36	51				
12s	47	40	33	47				
14s	43	37	31	43				
16s	41	35	29	41				
18s	38	33	27	38				
20s	36	31	26	36				
24s	33	28	24	33				
26s	32	27	23	32				
28s	31	26	22	31				
30s	30	25	21	30				
32s	29	24	20	29				
34s	28	24	20	28				
36s	27	23	19	27				
40s	26	22	18	26				
44s	24	21	17	24				
48s	23	20	17	23				
50s	23	20	16	23				
60s	21	18	15	-21				
70s	19	17	14	19				
80s	-	15	13	18				
90s	-	15	12	17				
100s	-	14	12	_				
120s	-	13	11					
150s		11	9	-				
HOW TO O	DEDATE							
1. Open th	e knoh cover u	nlock the locknut b	w aposial kaw	only half ray				
0 4-11	ie knob cover, u		by special key	only nair roun				
chart for	ws gap by rotating count setting.	the counter knob as	per yarn count	requirement. Se				
Lock the clearing	nut by special key device.	and fix the knob cov	er. Now you are	ready to use ya				

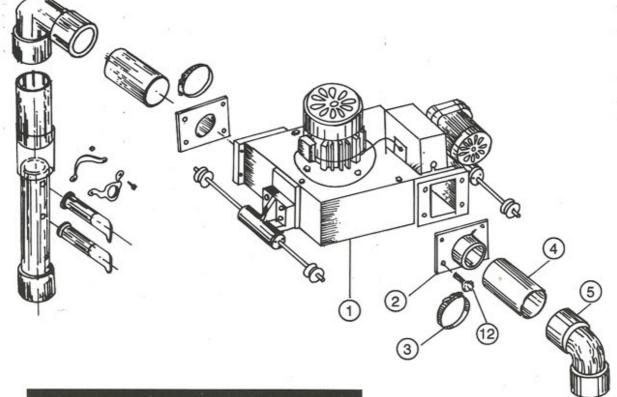




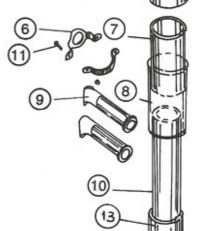
CRADLE ASSEMBLY WITH COUNTER WEIGHT (1) Cradle (2) Bearing Assembly (3) Voight Assembly (4) Lock Pin (5) Bracket With Spring And Wire (6) Starting Handle

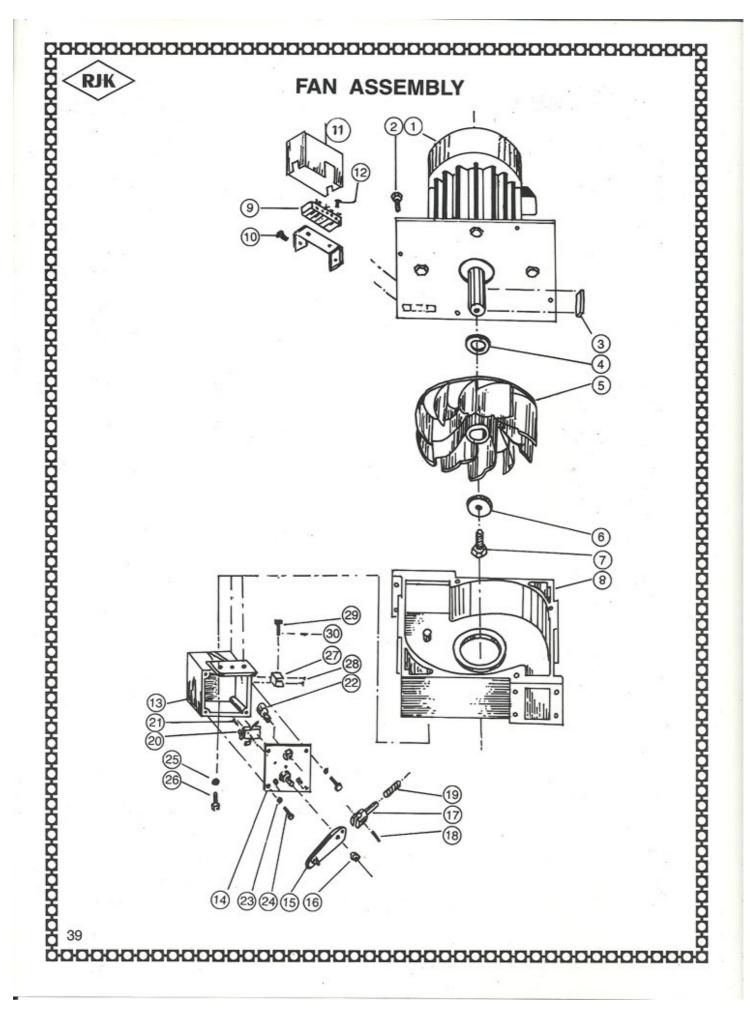
BLOWER BODY





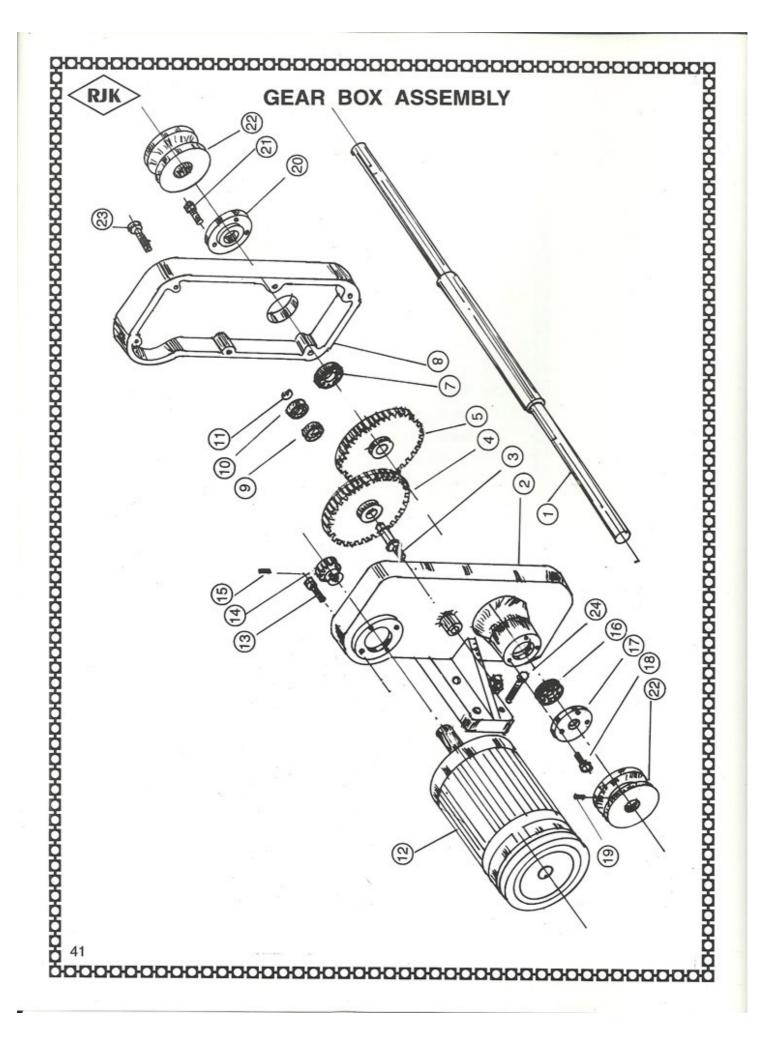
- Pew-0002 Blower Body
- (2) Pew-0201 Flange
- Pew-0204 Clamp (3)
- Pew-0207 Pipe Pice
- (5)Pew-0210 Elbow
- Pew-0212 Nozzle Clamp (6)
- Pew-0215 Pope Piece
- Pew-0218 Flexible Hose (8)
- Pew-0220 Nozzle (9)
- (10) Pew-0222 Pipe Piece
- (11) Pew-0224 Hex Pin with Plain Washer ans Nut
- Pew-0226 Hex Pin with Washer
- Pew-0230 End Cap (13)



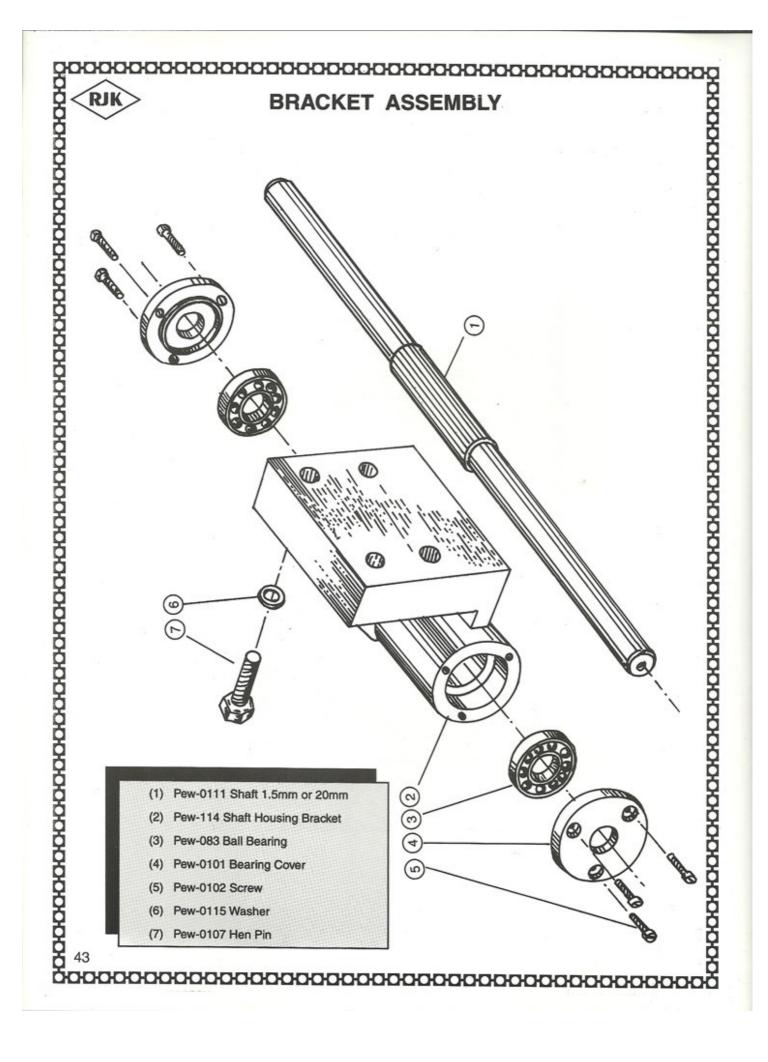


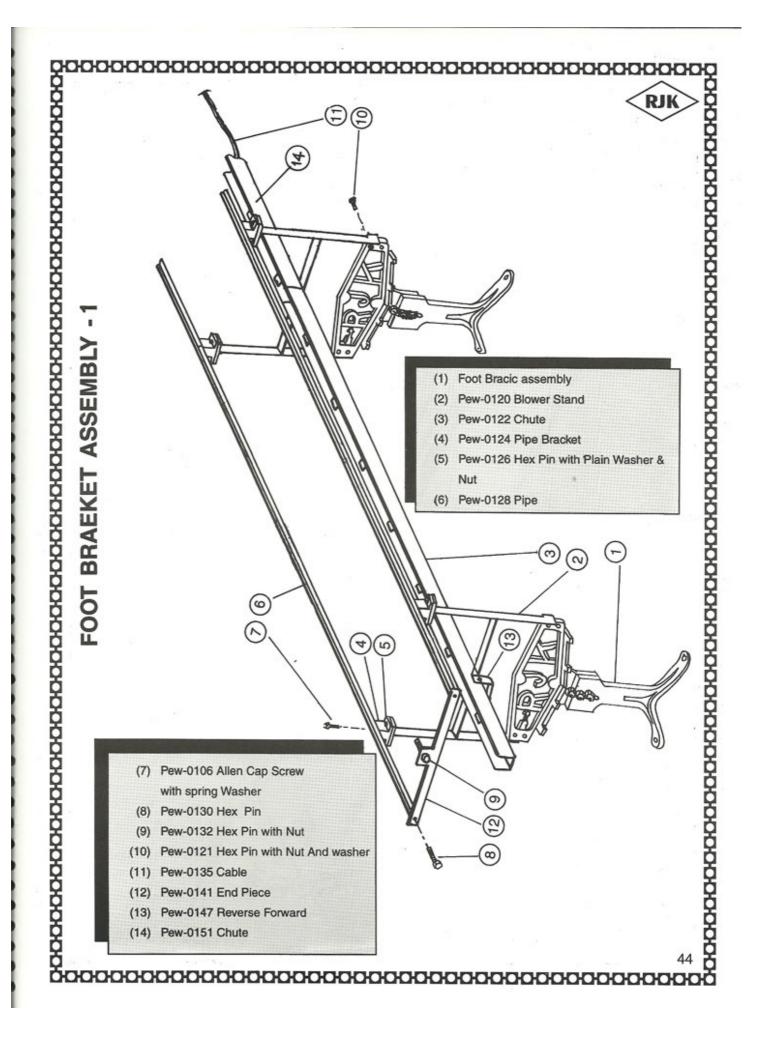
(1) Pew-014 Blower Motor 110V
(2) Pew-016 Key
(4) Pew-017 Spacer
(5) Pew-0021 Fan
(6) Pew-0019 Wesher
(7) Pew-023 Hox Pin
(8) Pew-0022 Blower Body
(9) Pew-024 Commection Strip
(10) Pew-027 Screw
(11) Pew-028 Relay Cover
(12) Pew-031 Screw
(13) Pew-033 Switch Box
(14) Pew-033 Switch Box
(14) Pew-037 PUF Switch Plate
(15) Pew-044 Slotted Pin
(16) Pew-045 Spring
(20) Pew-047 Micro Switch
(21) Pew-049 Screw with Plain Washer & Nut
(22) Pew-049 Micro Switch
(21) Pew-049 Screw with Plain Washer & Nut
(22) Pew-047 Micro Switch
(21) Pew-049 Screw with Plain Washer & Nut
(22) Pew-049 Screw with Plain Washer & Nut
(23) Pew-057 Spring Washer
(24) Pew-054 Allen cap Screw
(25) Pew-057 Spring Washer
(26) Pew-0163 Screw with Spring Washer
(27) Pew-0164 Pin
(30) Pew-0165 Cotter Pin

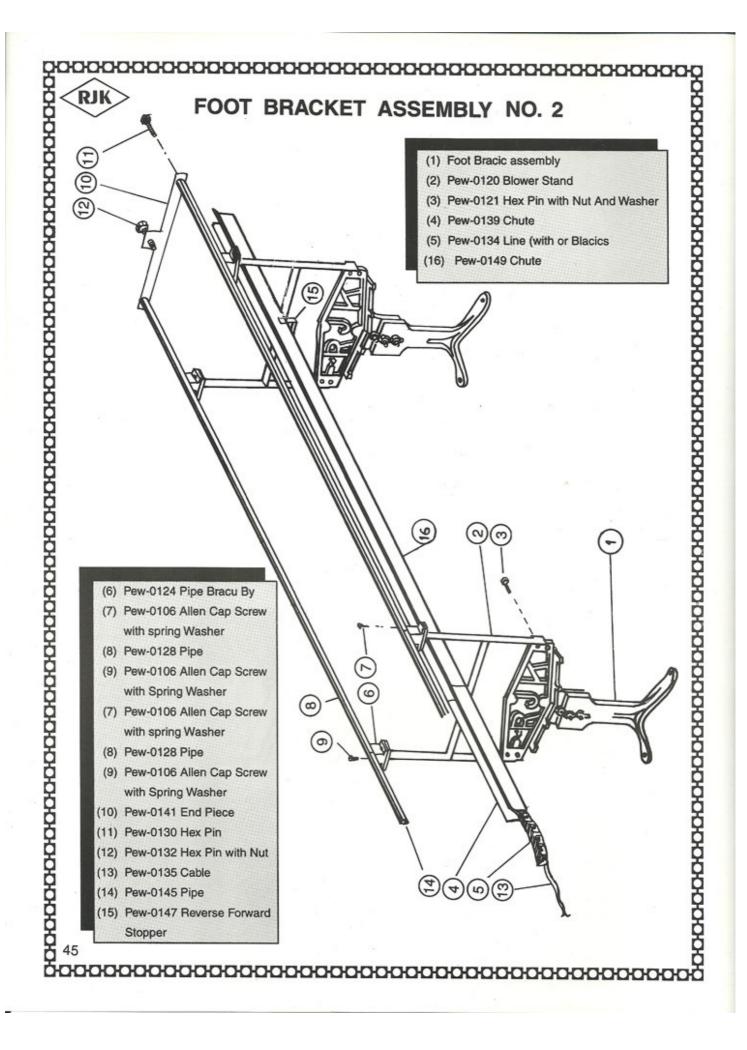


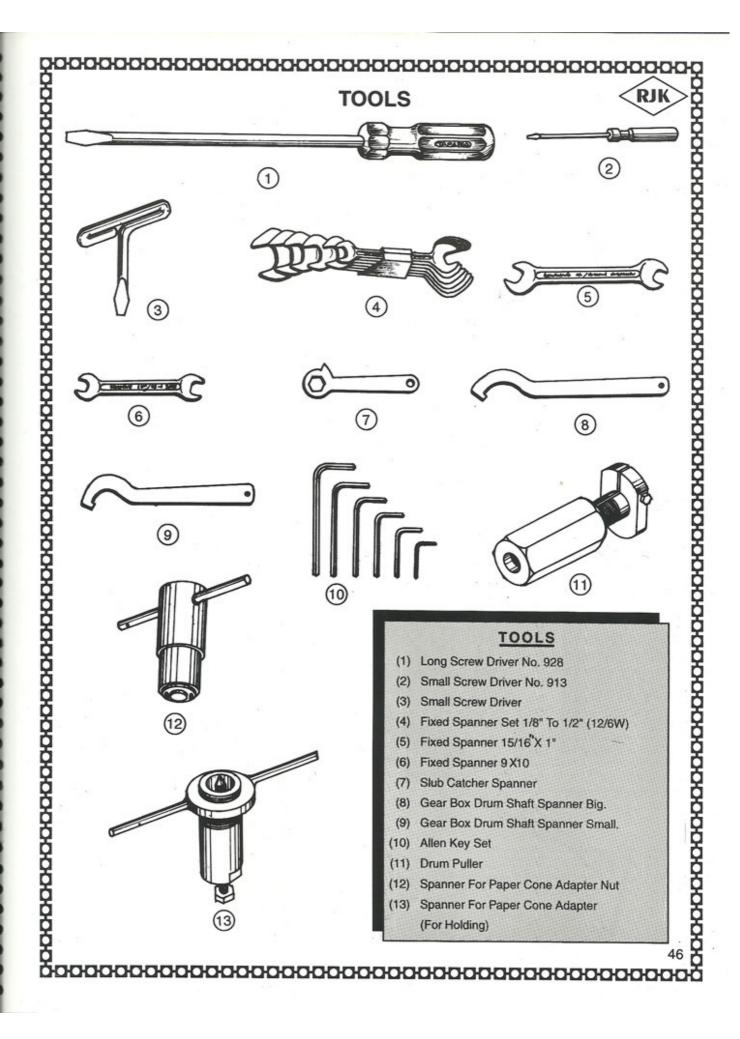


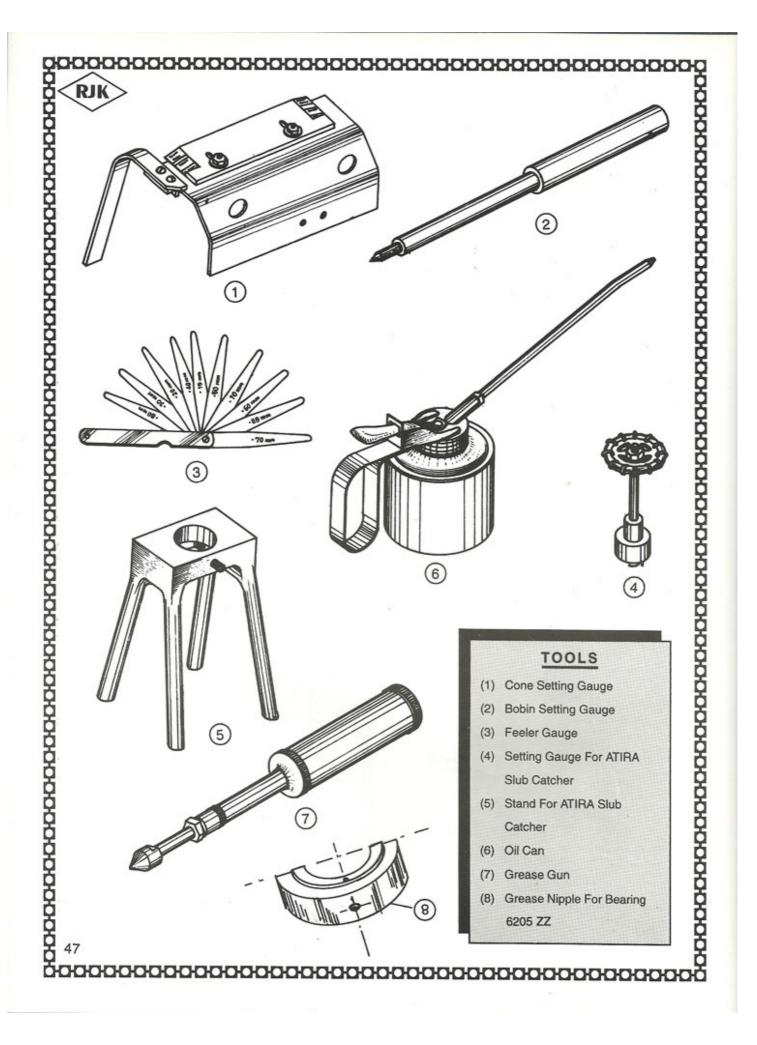
(1) Pew-072 Gear Shaft (2) Pew-074 Gear Box Body (3) Pew-075 Bearing Pin (4) Pew-077 Gear with Collar (7) Pew-083 Bearing 6004 ZZ (8) Pew-086 Gear Box Cover (9) Pew-088 Bearing NK 8112 (10) Pew-088 Bearing NK 8112 (11) Pew-089 Gear Box Motor 110V (13) Pew-094 Allen Cap Screw (14) Pew-096 M.S. Gear (15) Pew-096 Down (16) Pew-096 Down (17) Pew-097 Gear With Collar (19) Pew-098 Down (19) Pew-098 Down (19) Pew-098 Down (19) Pew-098 Down (19) Pew-0101 Bearing Cover (19) Pew-0101 Bearing Cover (19) Pew-0101 Bearing Cover (19) Pew-0103 Whoel (20) Pew-0104 Screw (21) Pew-0105 Screw (22) Pew-0105 Whoel (23) Pew-0106 Allen Cap Screw with Spring Washer (24) Pew-0107 Hex Pin with Spring & Plain Washer

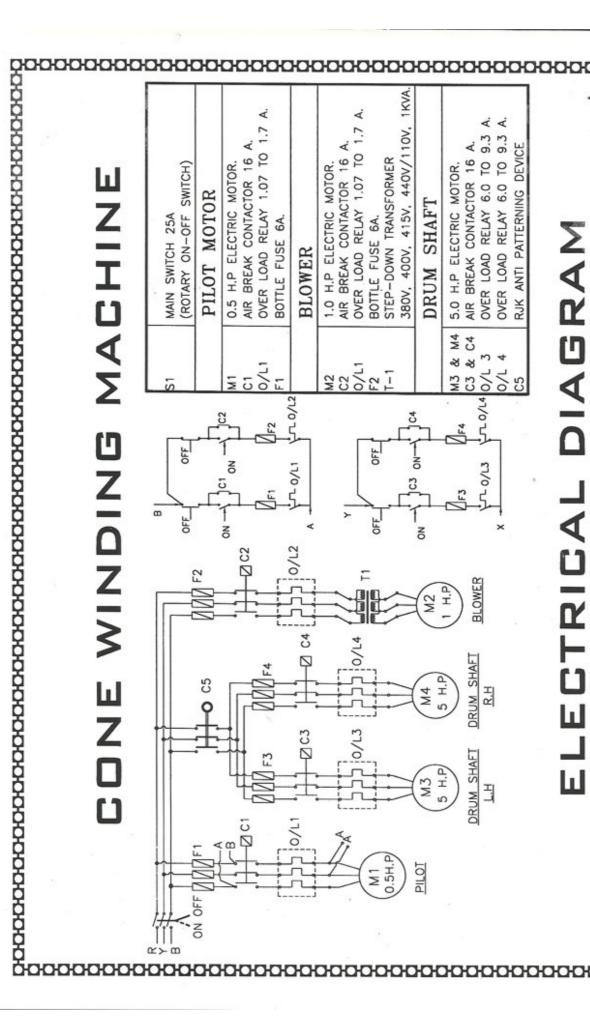






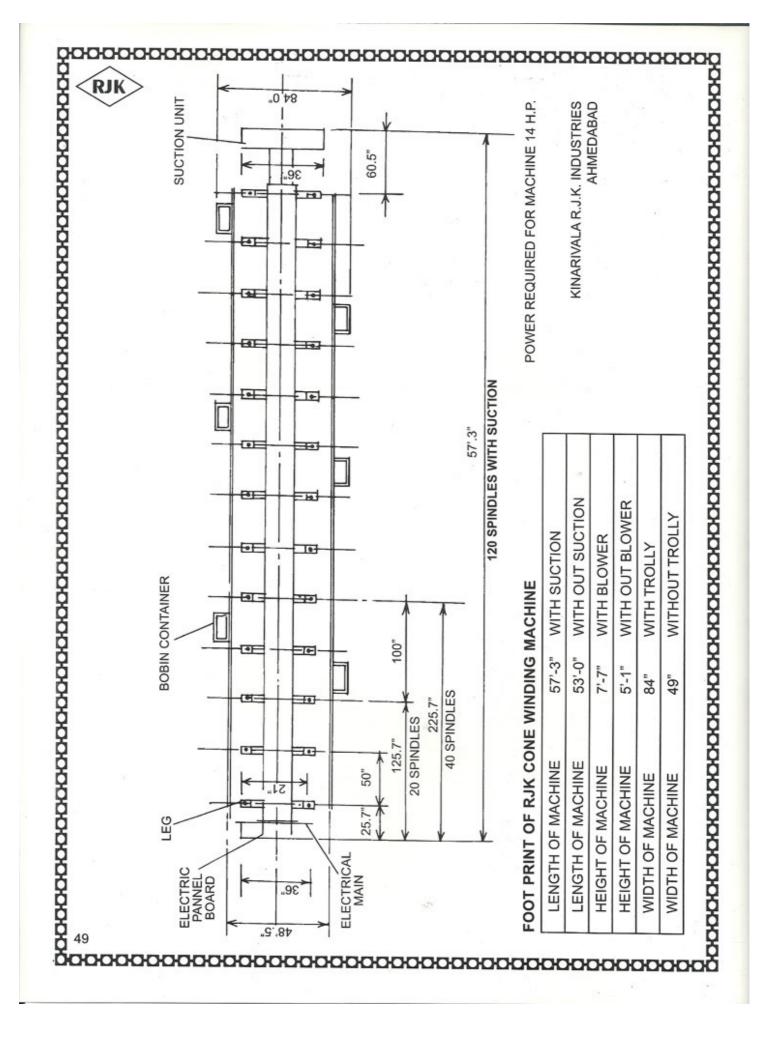






RJK

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- INSTALLATION AND COMMISSIONING OF RJK HIGH SPEED CONE WINDING MACHINE

 1. Place all the wooden cases alongside the line of installation in such a way that case no. / 1 is at the end of from where you wish to provide the drive to the Machine. C/S No. 1 contains electric panel, drive shalt motors. Please ensure that he arrows on all the cases point to this drive end.

 2. Open C/S No. 1 and place the panel & Gaer box assembly on the centre line.

 3. Open C/S No. 2 and place LEG No. 1 & 3 as per the foundation drawing, leaving out LEG No. 2 for time being (Use hex botts 1/2" Dia 1.1/2" long with washers)

 4. Put cut places of flannel 1/4" thick (ompressed felt) between the LEG and the flooring if foundation has not been done. These have been sent alongwith the Machine. Also put Flannel PCS. below base.

 5. Put the Channel of C/S No.2 on the two legs ensuring that the drive end of the channel rests on the base (71-110-28), part No. 8 on page No. 4 & 5.

 6. Open C/S No. 3 and place LEG No. 5 as per the foundation Drawing.

 7. Place channel No. 2 resting it on LEG No. 3 at one end & LEG No. 5 at the other end. Again tightening LEG. No. 3 with channel No. 2, as before.

 8. Continue this way until all the six channels are placed on the odd numbered legs.

 9. Now place all the even numbered legs in their respective position and fix them onto the channels by botting.

 10. Note and check that all the even numbers legs are so far fixed only to the channels and not to the floor.

 11. Tie a good quality nor streeh string between the 2 ends of the machine on the centre line of the foundation. This string is very important as it is going to help in checking and getting the in line of the anachine.

 12. Novo observe adjust and match the marking line on the leg with that on the bottom of the channel and than tighten the Leg No. 1.

 13. Adjust 1st leg in such way that washers at both the side between base plate and channel plate become tight. Ensure that LEG is also touched to the floor and not lose and cross leveling of machine i

RJK

ASSEMBLY OF MACHINE

- 20. After the completion of levelling, fix 2 pins (3/8" X 1.1/2") with panel board and channel,
- 21. Open frame cap of all joints. Tighten all square cam.
- 22. Tighten all drum shaft couplings No. 2, 3, 4, 5, 6 on right side of machine by matching the markings and similarly coupling Nos. 22, 33, 44, 55, 66 on left side of machine.
- 23. Fix link stud block round and friction plate and tighten stud holder on every joints.
- 24. Check that all oil pipes are connected with oil connection under the frame.
- Fix RJK foot bracket numberwise on frame of each LEG of machine.
- 26. Assemble partition, lower supply shelf R.H. & lower supply shelf L.H. (Numberwise as described in drawing).
- 27. Fix it on RJK foot bracket one by one with stopping rod and switch lever all togather. Be sure that No. 1, 2, 3, 4 etc. should be on R.H. side and No. 1 bar, 3 bar etc.

SETTING OF RIBBON BREAKER ASSEMBLY

- 28. Fix hylem round circle with screw on threads provided on hylem sheet in ribbon breaker compartment of panel board. Make hole big if hole does not match.
- 29. Check the gap between silver tipped contacts. Open contacts fully by rotating cam by hand. Keep 0.080" gap between two contact. Make sure that contactor is free while pressing contactor in, up and down direction.

PNEUMAFIL UNDER CLEARERS

- 30. Put Aluminum ducting between the legs with each other numberwise.
- Connect last ducting with pneumafil filter box.
- 32. Keep sufficient gap between last leg and filter box for keeping empty bobbin collection box. Ensure that one side of first ducting, at panel board end, is covered.
- 33. Fix 3 pcs. tie rods between every LEG, do not overtight tie rod. Overtight may disturb levelling of machine.

FIXING OF OIL PUMP ASSEMBLY

- Fix remote end with LEG No. 13 and with last channel.
- 35. Loose eccentric collar. Fix pin on eccentric collar through ball bearing of '8' shaped bracket.
- Rotate eccentric collar by hand for alignment. Tighten eccentric collar.
- Fix oil pump tank inside of last leg of machine.
- 38. Connect plastic pipe with inlet and outlet connection of the oil tank.

BLOWER

- 39. Fix blower stand number wise on each RJK foot bracket.
- 40. Fix longer chute having welded bracket on 1st and 2nd blower stand and balance chutes having welded brackets upto spindle No. 30.
- 41. Fix plain chute from spindle No. 30 to 55 and longer one at last.
- 42. Fix longer blower pipes (PCS. 4) at both end of machine and balance pipes between big pipes on blower
- 43. Put blower on blower pipe. Make connection of blower cable with blower terminal box and in panel board as per wiring diagram.
- 44. Ensure that nylon bracket chain should be towards remote end side of machine and cable is not twisted, otherwise there are chances of puncture of cable.
- 45. Fix end flat of blower on both ends of long pipes.
- 46. Check the direction of blower fan.

51

- ASSEMBLY OF TROLLEY, CHAIN HOUSING, TENSION BRACKET

 47. Remove conveyor housing cover. Remove key from gear box shaft. Fix conveyor housing.

 48. Match the key hole with sprocket wheel. Fix key in gear box shaft.

 49. Tighten the conveyor bot with channel.

 50. For proper alignment of two sprocket wheels, after starting of pilot motor for a short while, tighten alien screw provided on sprocket wheel of conveyor's shaft.

 51. Fix conveyor sheaf number wise 1, 2, 3, 4, ... on R.H. side & No. 1 bar, 2 bar, 3 bar ... on L.H. side of bracket fixed on legs.

 52. Fix conveyor belt guard.

 53. Take conveyor belt guard.

 53. Take conveyor belt from chain housing. Joint conveyor belt with belt joining clip. Pull coveyor belt with help of rod on remote end side and overlag in to nemote end guiley.

 54. Fix tension file for R.H. bracket and L.H. bracket fixed on LEG. Assemble tension bracket with slub catchers. Fix it on tension files.

 55. Connect flexible pipe with slub catchers and rubber knobs fixed on ducting. Through clamp of conveyor guard.

 56. Fix dead weight on spindle holder. (For hard package machine.)

 57. Assemble MDP 112/113 combined bracket in 1** dia. shaft (Numberwise)

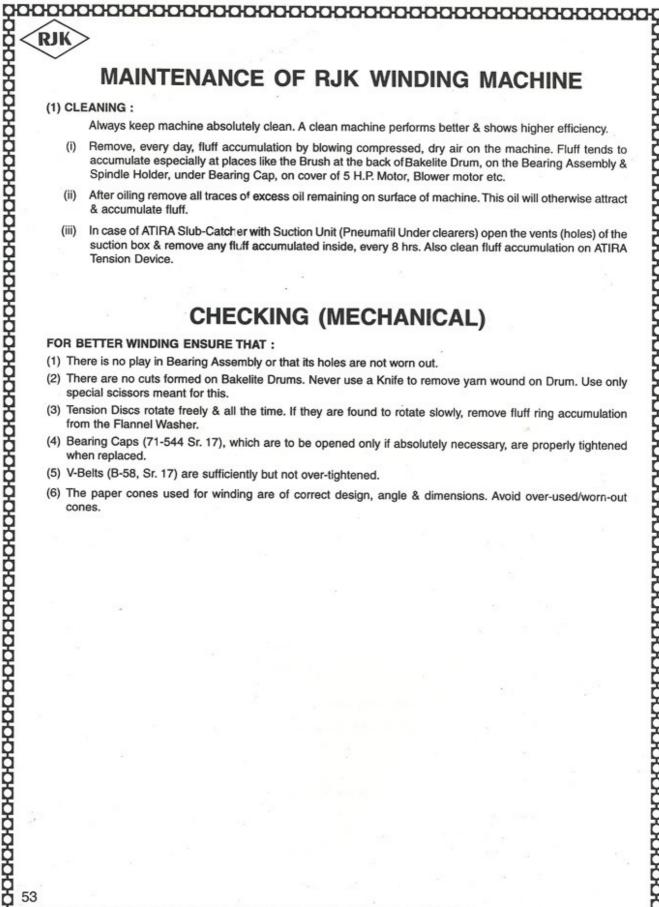
 58. Fix above assembly (Number wise 1, 2, 3, ... on R.H. side and 1 bar, 2 bar, 3 bar ..., on L.H. side of machine) on legs.

 59. Fix supply shaft of 15 MM dia. with robbin holder (Numberwise) 1, 2, 3, ... on R.H. side and 1 bar, 2 bar, 3 bar ..., on L.H. side of machine) on supply bracket. Match the joint of trolley sheet for smooth running of trolley.

 61. Fix follow place (furnamenters 1, 2, 3, ... on R.H. side and 1 bar, 2 bar, 3 bar ..., on L.H. side of machine) on supply bracket. Match the joint of trolley sheet for smooth running of trolley.

 62. Insert trolley pcs. 3 on each side after opening trolley sheet on each both side. Put box on trolley.

 63. Put 0.5 iter oil in alternative frame of machine. Fill oil tank thid tild oil. Fill till the bull oil oil. Fill oil past but to the side of machine) on supply bracket. Match the joint





MAINTENANCE OF RJK WINDING MACHINE

(1) CLEANING:

Always keep machine absolutely clean. A clean machine performs better & shows higher efficiency.

- Remove, every day, fluff accumulation by blowing compressed, dry air on the machine. Fluff tends to accumulate especially at places like the Brush at the back of Bakelite Drum, on the Bearing Assembly & Spindle Holder, under Bearing Cap, on cover of 5 H.P. Motor, Blower motor etc.
- After oiling remove all traces of excess oil remaining on surface of machine. This oil will otherwise attract & accumulate fluff.
- (iii) In case of ATIRA Slub-Catcher with Suction Unit (Pneumafil Under clearers) open the vents (holes) of the suction box & remove any fluff accumulated inside, every 8 hrs. Also clean fluff accumulation on ATIRA Tension Device.

CHECKING (MECHANICAL)

FOR BETTER WINDING ENSURE THAT:

- (1) There is no play in Bearing Assembly or that its holes are not worn out.
- (2) There are no cuts formed on Bakelite Drums. Never use a Knife to remove yarn wound on Drum. Use only special scissors meant for this.
- (3) Tension Discs rotate freely & all the time. If they are found to rotate slowly, remove fluff ring accumulation from the Flannel Washer.
- (4) Bearing Caps (71-544 Sr. 17), which are to be opened only if absolutely necessary, are properly tightened when replaced.

- (5) V-Belts (B-58, Sr. 17) are sufficiently but not over-tightened.
- (6) The paper cones used for winding are of correct design, angle & dimensions. Avoid over-used/worn-out cones.



ELECTRICAL CHECKING

THIS MAY BE CARRIED OUT EVERY WEEK AS UNDER:

It should be between 400 to 440 volts. Low input voltage will damage the motors.

(2) REMOVE THE CAM:

That operates Ribbon Breaker Contactor (Make & Break). This will leave both the 5 HP Motors running directly on the mains supply. Check the output current in all 3 phases.

(3) IF THE 3 PHASES ARE BALANCED:

And show a normal current reading of 5 to 6 amperes then measure the starting torque on each motor with a diplon meter. This torque should be 17 to 20 Amp (at 699 ypm) or 25 to 30 Amp (@ 800 ypm). If the torque is normal, the electrical system is in order.

(4) IF THE 3 PHASES ARE BALANCED:

O' If any phase is weak, check whether:

(6) The fuse connections are loose.

(7) The gap between Upper & Lower (Fixed & Móving) Silver Tipped Contacts of the Ribbon Breaker assembly needs resetting. This gaps should be maintained at 0.80°. Resetting can be done using Feeler Gauge supplied along with machine.

(8) IF THE 3 PHASES ARE BALANCED BUT:

Show a current reading higher than normal, disconnect the motors from the Traverse (Drum) Shaft by Removing the V-Belt & recheck the current in all 3 phases.

If the current reading is now normal it implies that the high current reading may have have been due to overload on Drum Shaft.>> Go to step (7).

(6) FOR OVERLOAD ON DRUM SHAFT CHECK IF:

(7) Yam is wound on Drum Shaft. Remove it.

(8) Bearing Caps have been over tightened.

(9) Paper Cone Holders are not freely rotating.

(7) FOR SUSTAINED HIGH CURRENT READING:

Remove V-Belt to unload the motor & check more Ball-Bearings. Replace if necessary, Check the input voltage on the motor connection but. In case of 1/2 HP Gear Box motor check also the Gear Box Ball-Bearings. If the torque reading is still high check the gap between the Fixed & Moving Silver contacts, which should be 0.080°. In case of 1/2 HP Gear Box motor check also the Gear Box Ball-Bearings. If the torque reading is still high check the gap between the Fixed & Moving Silver contact



OILING

(1) GEAR-BOX ASSEMBLY:

Maintain oil level at the maximum indication mark provided on the glass dial. Change oil after the first 3 months & then every for months. No greasing necessary on Ball-bearings 6207 ZZ & 6206 ZZ. The Gear-Box oiling system is independent from that of the Main Boxes (Frames). Pour oil through the oil plug provided.

(2) CONVEYOR:

Open the Chain Wheel Cover (71-259-3, Sr. 12) & grease the Sprocket Wheels (Sr. 9) every 3 months.

(3) BALL-BEARINGS:

Ball-bearings (6205 ZZ) on Drum Shaft (71-54-3 Traverse Shaft, Sr. 2 & 3) are double sealed. Hence, ordinarily no oiling or greasing required. If necessary greasing may be done using the special Grease Nipple provided along with the machine.

(4) BEARING ASSEMBLY (71-43-18X, Sr. 4):

Oil dially through the tole on the Spindle Holder Oil pin (71-682 Stud, Sr. 4).

(6) PAPER CONE HOLDER (71-41-18, Sr. 1):

Oil through the hole on the Spindle Holder Oil pin (71-682 Stud, Sr. 4).

(7) MAIN BOX (FRAME):

Oil daily the three Press-Buttons on the Frame Cap and the Frame Cover.

(8) MOTORS:

Grease as recommended by motor manufacturers.

(9) M & B Constactor:

Oil and Grease using special lubricant, once a month, all the moving parts such as Studs where oil holes are provided.

(10) Oil Tank:

Pour oil whenever the oil level falls.

(11) Oil Circulating pump:

This unique pump is being supplied as a standard equipment with all the machines from 1979.

MISCELLENEOUS NOTES:

(ii) Make & Break Contactor (Ribbon Breaker Assembly):

This unique, PLIK designed Contactor with silver tipped contacrs stops the 5 H.P. Motors (& thereby the drumshalts) 30 to 32 times in a minute for a fraction of a second. This prevents formation of ribbon in winding.

Never use a file or a sand-paper to clean the silver tipped contacrs stops the 5 H.P. Motors (& thereby the drumshalts) 30 to 32 times in a minute for a fraction of a second. This prevents formation of ribbon in winding.

Never use a file or a sand-paper to clean the silver tipped contacrs stops the 5 H.P.



LUBRICATION CHART

(1) WHEN INSTALLING MACHINE:
Imitially, when installing / commissioning the machine remove / open the second, the sixth & Frame Cap (i.e. 2nd, 6th, 11th, 16th, 21st......)
Now pour about 1.25 tr. of oil into the Gear Box Assembly by opening the Oil Plug provided of Motor Rest.

THE OIL TO BE USED: SAE 40 OR EQUIVALENT GOOD QUALITY OIL
(2) FRAME (BIG BOX):
Oil daily the Press Button Oiler provided on Frame Cover.

3) ELECTRIC MOTORS:
Grease as recommended by motor manufactures.

(4) RIBBON BREAKER ASSEMBLY (MAKE & BREAK CONTACTOR):
Put a little grease on top of Cam Bearing (Sr. 12) Also put some grease on top of Guide Collar Stud (Sr. 7)

(5) OIL TANK:
Fill up with oil whenever the level falls as this oil is slowly transferred to the Frames by th Pump Assembly.

(6) OIL CIRCULATING PUMP:
This unique pump is being supplied as a standard equipment with all machines. Peridiocally it is not been continuous flow of oil. Imitially, when installing / commissioning the machine remove / open the second, the sixth & then every fifth

Now pour about 1.25 ltr. of oil into the Gear Box Assembly by opening the Oil Plug provided on top of the Pilot

Put a little grease on top of Cam Bearing (Sr. 12) Also put some grease on top of Guide Collar for 1/2" dia M.S.

Fill up with oil whenever the level falls as this oil is slowly transferred to the Frames by the Oil Circulating

This unique pump is being supplied as a standard equipment with all machines. Peridiocally it may be checked.

WHAT T	O CHECK FIRST IN (POSSIBLE CAUSES.	CASE OF TROUBLE.
STICHES	(1) Cone Holder incorrecly set.	Use Cone Setting Gauge 71-245 CAX. Reset.
	(2) Yarn jumping from groove near end of traverse.	Move Tension Bracket (71A-11, Sr. 13) towards end where stiches occur.
	(3) Yarn Wast wrapped around base	Remove yarn waste so cone Holder will rotate freely.
	(4) Tension Discs held open By lint or slubs.	Clean between Discs.
	(5) Fluff in Builder Cam Half Round Bracket	Remove fluff
	(6) Breakage Lever Vibration.	Reset with help of Adjusting Clamps.
BULGING	(1) Too much pressure on base of Cone causing nose to lift up.	Check Cone Holder setting with Cone Setting Gauge 71-245 CAX Reset If necessary.
	(2) Loss of tension on yarn.	Look for & remove lint buttons between Tension Discs or glazed discs.
BELL-SHAPED PACKAGE	(1) Too much tension on yarn.	Reduce tension weight.
	(2) Cone Holder incorrectly	Reset with Cone Setting Gauge
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EXCESSIVE END BREAKAGE RIBBON FORMATION CONTROL OF THE PROPERTY OF THE PROPE	(1) Too many Tension Weights.	Reduce Tension Weights and if necessary balance Breakage Lever.
	(2) Supply Spindle out of line.	Line up Supply Spindle with eye of Tension Bracket (71-264-11, Sr, 13) Using Bobbii Setting Rod.
	(3) Yarn delivered from supply package drags over surface of supply package.	Move Supply Bobbin closer to Tension Bracket to widen ballooning of yarn.
	(4) Slub Catcher setting wrong.	Check for proper setting.
RIBBON FORMATION	(1) Cone Holder incorrectly set.	Use Gauge for proper setting.
	(2) Contactor Cam Steel pieces setting wrong	Open or Close Steel CAM Pices (Sr. 14) of Ribbon Breaker Asse
	(3) Cone Holder not rotating treely	Remove waste and lubricate