

YCM-40
MECHANICAL MANUAL

SUPERMAX®

IMPORTANT

Attention is drawn to the requirement of the Health and Safety at Work Act, should always be operated to conform with the appropriate regulations.

Other safety precautions are discussed in the American National Standards Institute Standard entitled Safety Requirements for the Construction, Care, and Use of Drilling, Milling, and Boring Machines (ANSI B11.8-1974).

To assist machine users in designing point of operation safeguarding for their specific machine applications, the Occupational Safety and Health Administration has published a booklet entitled Concepts and Techniques of Machine Safeguarding (O.S.H.A. Publication Number 1910. 212).

General precautions for safe operation.

The general precautions to safety operate this machine are described below to supplement the operation technique and safety precautions explained by our engineer or dealer when the machine is installed. Our products are well designed to ensure the safety of all machine sections.

If the machine is used improperly, however, a serious accident may occur. The basic safety precautions are described below.

- (1) Safeguarding for protection at the point of operation can only be designed and constructed when the parameters of the particular operation have been determined. As a result, ANSI B11.8-1974.
 - (2) The machine should be operated by a trained operator familiar with the machine. Operators not familiar with the machine should be trained before operating the machine.
 - (3) The operator should not come close to, touch, or bring an object close to any rotation or moving part.
- * Carefully read the manuals listed below to fully understand their contents.
- * FOR SAFETY AND CORRECTION OPERATION, TO READ THIS MANUAL BEFORE OPERATING THIS MACHINE IS STRONGLY REQUESTED!

DO NOT OPERATE
WITHOUT
EYE PROTECTION

DO NOT OPERATE
WITHOUT GUARDS

YCM-40
MECHANICAL MANUAL

OEM KNEE TYPE CNC
MILLING MACHINE

POWER BEFORE
SERVICING

OP40M01
R001

**DO NOT OPERATE
WITHOUT
EYE PROTECTION**

**DO NOT OPERATE
WITHOUT GUARDS**

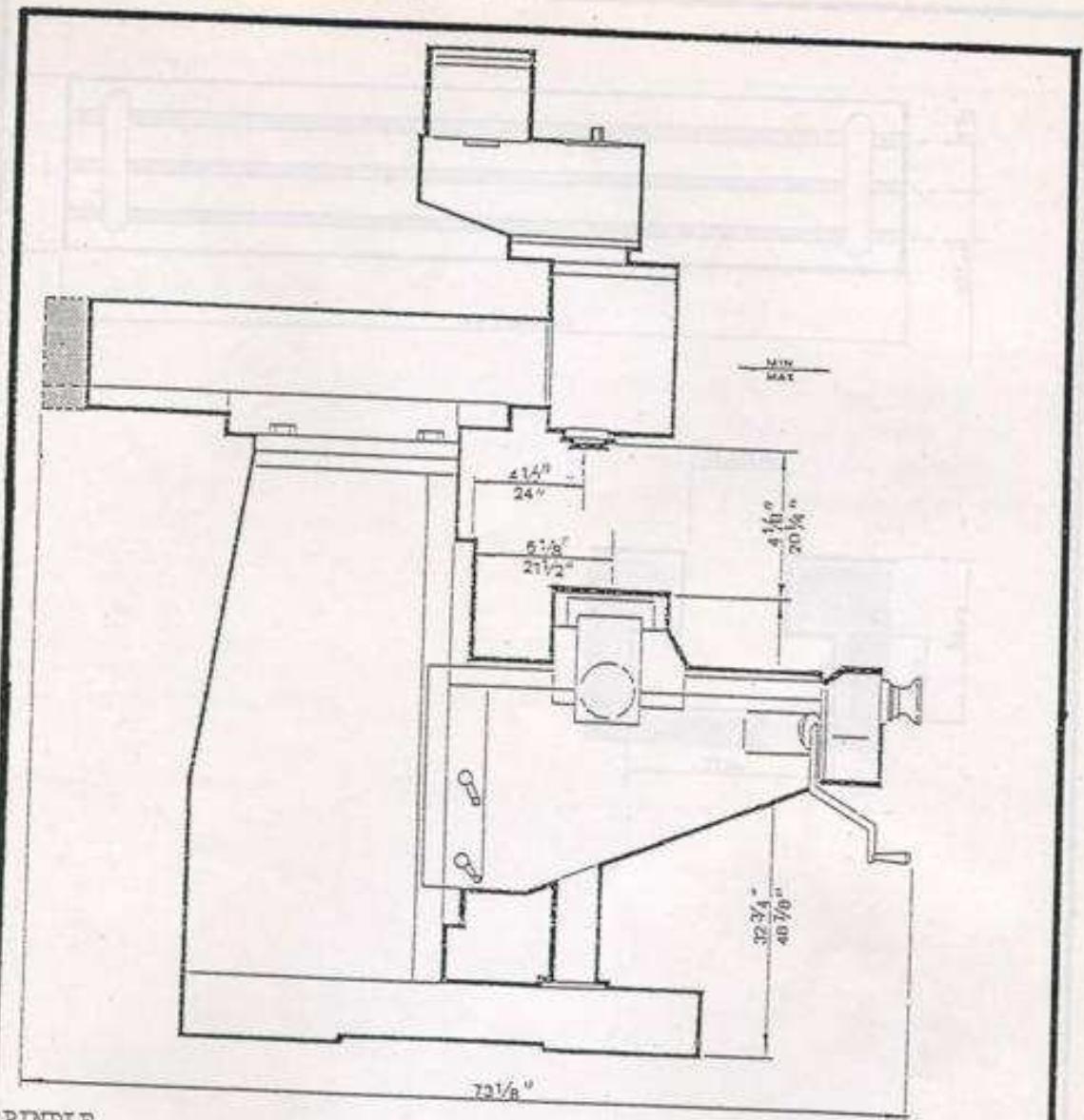
CAUTION

KEEP HANDS OUT
OF MACHINE

CAUTION

**DISCONNECT
POWER BEFORE
SERVICING**

FOR SAFETY AND CORRECTIVE OPERATION, TO READ THIS MANUAL
BEFORE OPERATING THIS MACHINE IS STRONGLY RECOMMENDED.



SPINDLE

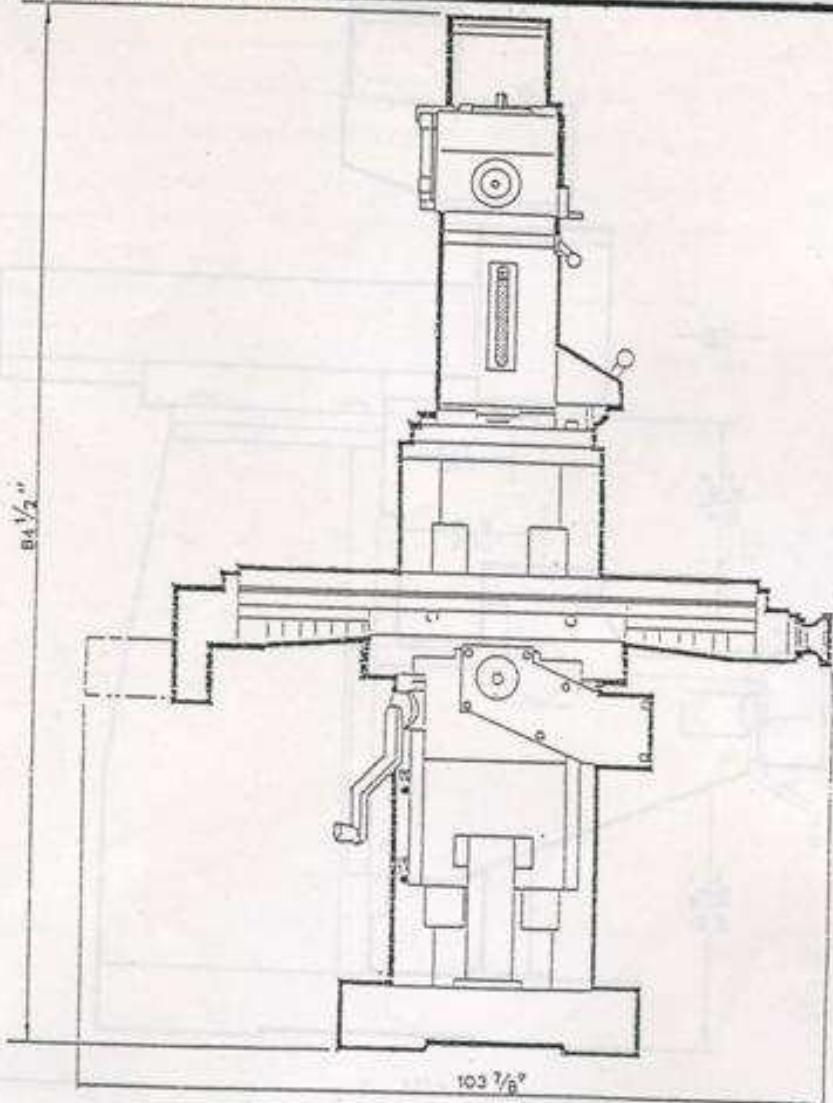
Spindle taper.....	NST#30
Spindle speed (infinitely variable).....	NST#40(optional) low range 80-500RPM
	high range 500-4200RPM
Spindle motor.....	A.C. 2 HP
Quill diameter.....	A.C. 3 HP(optional) 3.94 (100)
Lubrication oil pump.....	A.C. 3W
Coolant pump.....	A.C. 1/6HP

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MACHINE SPECIFICATIONS

1-1. Outline dimension,



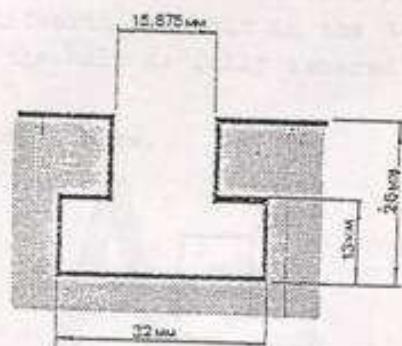
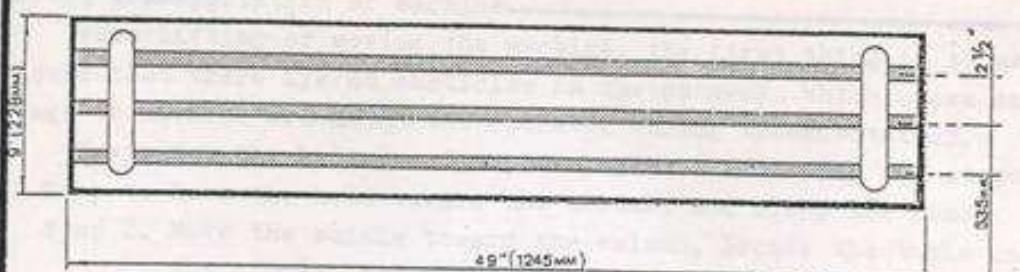
TABLE

	IN	(mm)
Table length.....	49	(1245)
Table width.....	9	(228.5)
"T" slot number and size.....	3-5/8(15.875)	
"T" slot center distance.....	2.5	(63.5)
Max. work piece weight.....	550lb(250Kg)	

TRAVEL

Table longitudinal (X-axis).....	28	(711)
Table cross travel (Y-axis).....	15.5	(395)
Spindle vertical (Z-axis).....	5	(127)
Knee vertical.....	16	(406)

1-2. Table and "T" slots dimension.



In lifting assembly, must be used care not to give shocks or vibration and avoid hitting the machine.

TRANSPORTATION AND INSTALLATION OF MACHINE

2-1. Transportation of machine

When lifting or moving the machine, the first thing is to make sure that there are no obstacles in the pathway. Which cause damage to machine or damage the operator during transportation.

Next, for the balance of machine, please following the steps.

Step 1. Move the head toward the column, and clamp the ram.

Step 2. Move the saddle toward the column, locate the table in the middle, and clamp both.

Step 3. Keep the balance of machine during moving, the weight of machine is 1200 Kg, please select the suitable wire rope, or insert a 5/8" -11 UNC Whitworth eye bolt in the tapped hole of ram, make sure the bolt is fully secured before lifting.

Please ref. the following fig. shown below.

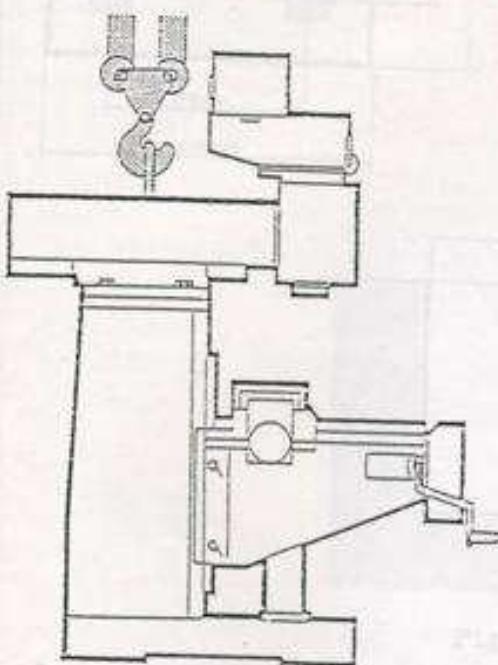


Fig. 2-1-1

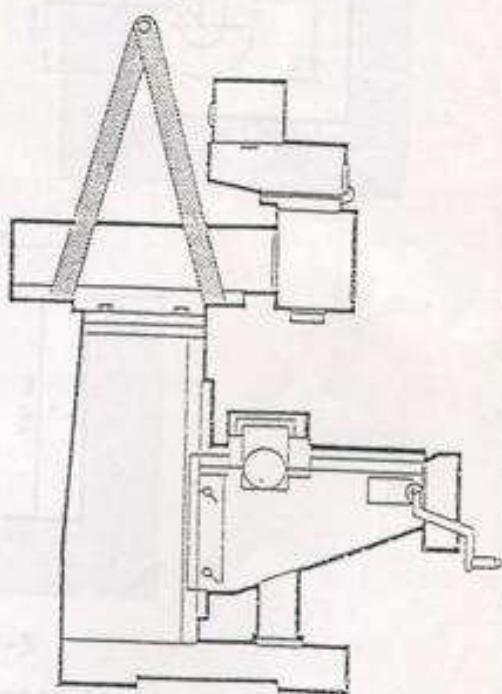


Fig. 2-1-2

In lifting the machine, must be most careful not to give shocks or vibration and avoid tilting the machine.

2-2. Foundation and installation.

Foundation

For optimum performance, the machine should be mounted on a solid vibration free foundation and accurately levelled. The best way is showing below:

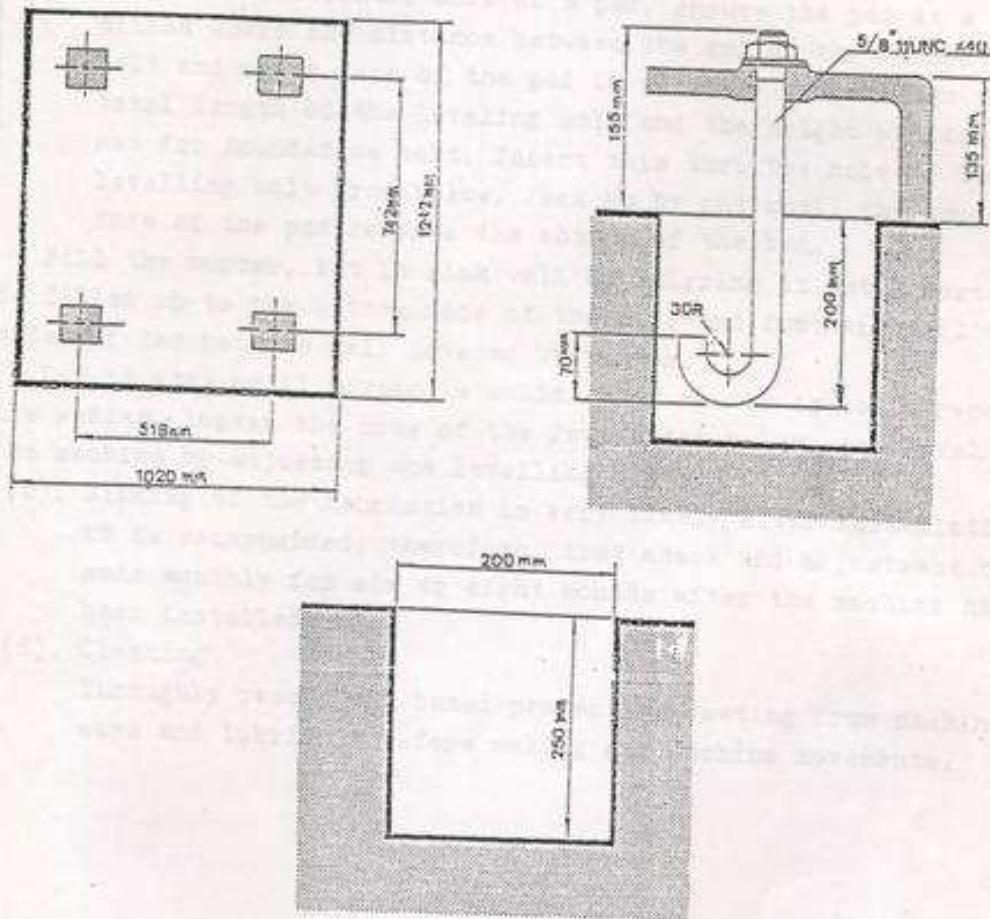


Fig. 2-2-3

Or any conventional method is acceptable, ie. steel shim, rubber vibration isolators, felt pads, etc.

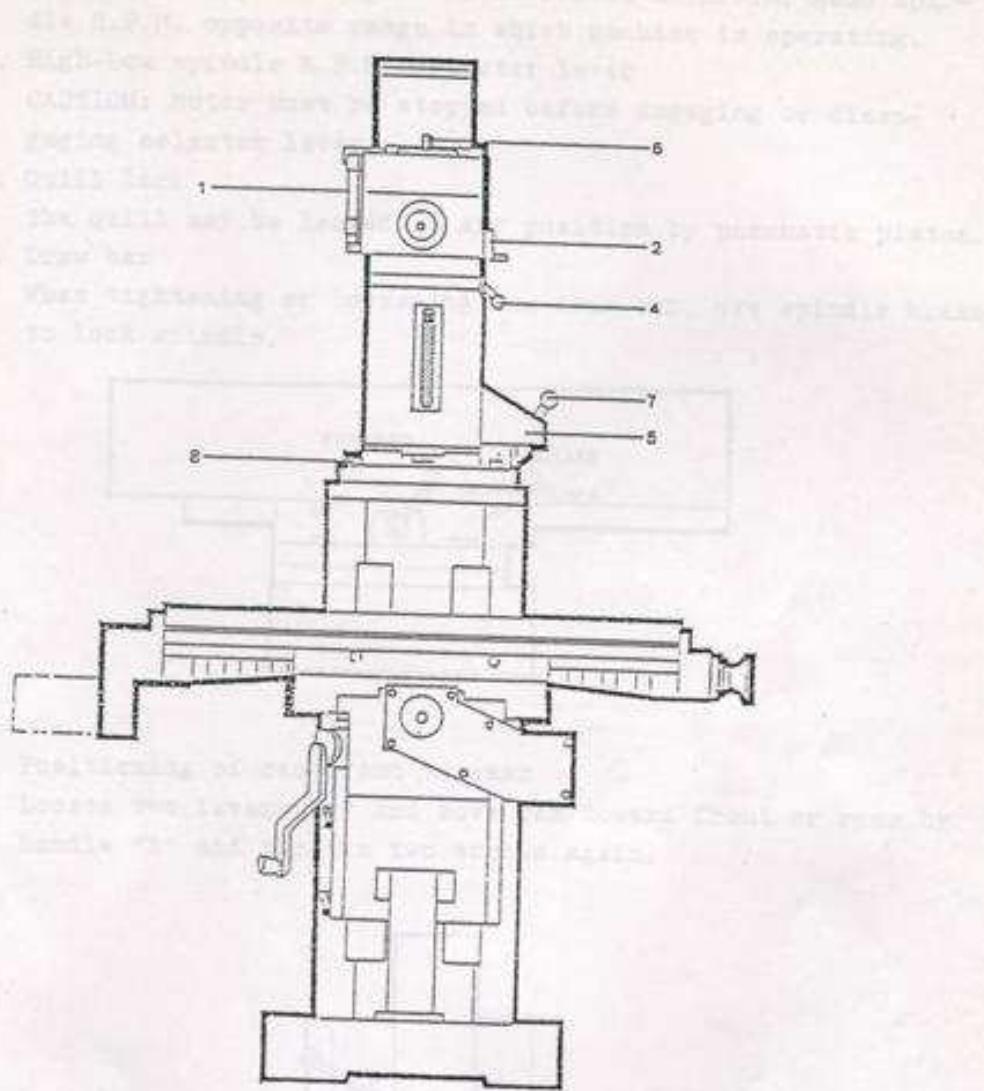
Installation

First, after the machine has been laid down on specified floor area, clean the machine, remove the clamping fixtures, install the detached parts.

(a). Installation without using foundation

Place the pad on the foundation area of the machine, the bottoms of the pads must be clean of grease or oil. Place

5-2. Operating instructions.



1. Spindle brake & lock

Pneumatic brake piston on left side of belt housing. To lock spindle when changing tools, move lever up to horizontal position. CAUTION: The motor can be damaged if it is turned on while the brake lever is in the horizontal (lock) position.

2. Spindle speed selector

Dialing spindle speed must be performed only while motor is running. Infinite spindle speed is obtained by dialing speed selector clockwise for faster speeds, and counter clockwise for slower speeds, and reading desired spindle speed on the direct reading speed dial. In high range, any speed from 500 R.P.M. to 4200 R.P.M. or in low range any speed from 80 to 500 R.P.M.

the machine on these pads. Level the machine by adjusting levelling bolts provided at the bottom of the machine bed.

(b). Installation using the foundation bolts

Place the machine on the foundation floor, insert wedges under the machine, keeping clear of the pads locations, and level the machine by wedges only. Insert a foundation (J) bolt thru the center hole of a pad, ensure the pad at a position where the distance between the end of the foundation bolt and upper face of the pad is slightly longer then the total length of the leveling bolt and the height of locking nut for foundation bolt. Insert this thru the hole of the levelling bolt from below. Jack up by nut until the upper face of the pad reaches the bottom of the bed.

Fill the mortar, let it sink well by stirring it until mortar is filled up to the bottom face of the pad, and further until the sides of the pad are well covered by mortar.

Let it stay until mortar is solid. When mortar is solid remove the wedges, loosen the nuts of the foundation bolts, and level the machine by adjusting the levelling bolts.

(c). Sinking of the foundation is very likely after installation it is recommended, therefore, that check and adjustment be made monthly for six or eight months after the machine has been installed.

(d). Cleaning

Throughly remove oil based protective coating from machine ways and lubricate before making any machine movements.

DAILY MAINTENANCE

3-1. Following check points must be observed very strictly to keep the machine running, failure to observe them is most likely to cause unnecessary and costly machine breakdowns, if any failure is spotted with the machine during routine check-ups, please fixed it before the machine is started.

CHECK ITEM

1. Lubrication system

Check the level of lubrication oil located at the left of kness, when the oil is half empty, please fill it up.

2. Before operation start, make sure all slide guideways are lubricated sufficiently. Because lack of lubrication oil most certainly burn and freeze the guideways.

3. Air pressure:

If the machine with the power draw bar, the air pressure must be at 80 - 160 psi and it must be confirmed by pressure gage.

4. Coolant tank

Coolant tank is at the bottom of column, it must be filled whenever the coolant is short.

5. Spindle nose

Inside taper of the spindle must be cleaned everyday before start to work. Likewise, protect the spindle taper from dusts and chips by stuffing it with soft, clean cloth etc. When the machine is shut down for the day.

6. Tool shanks

Tool shanks must be clean to protect

CHECK INTERVAL

1. Periodically,
tank capacity 2
liters.

2. Everyday

3. Everyday

4. Periodically,
tank capacity
18 liters.

5. Clean everyday.

6. Everyday and
whenever necc-
ssary.

3. Spindle speed dial

Approximate spindle speed is indicated in R.P.M. Read spindle R.P.M. opposite range in which machine is operating.

4. High-Low spindle R.P.M. selector lever

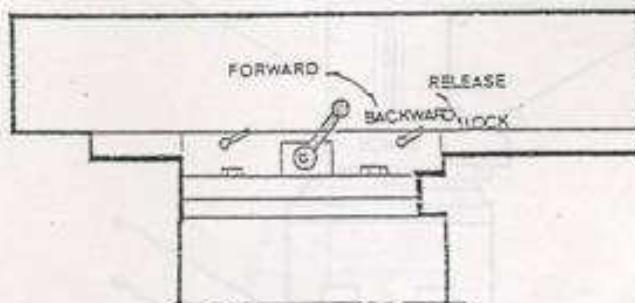
CAUTION: Motor must be stopped before engaging or disengaging selector lever.

5. Quill lock

The quill may be locked in any position by pneumatic piston.

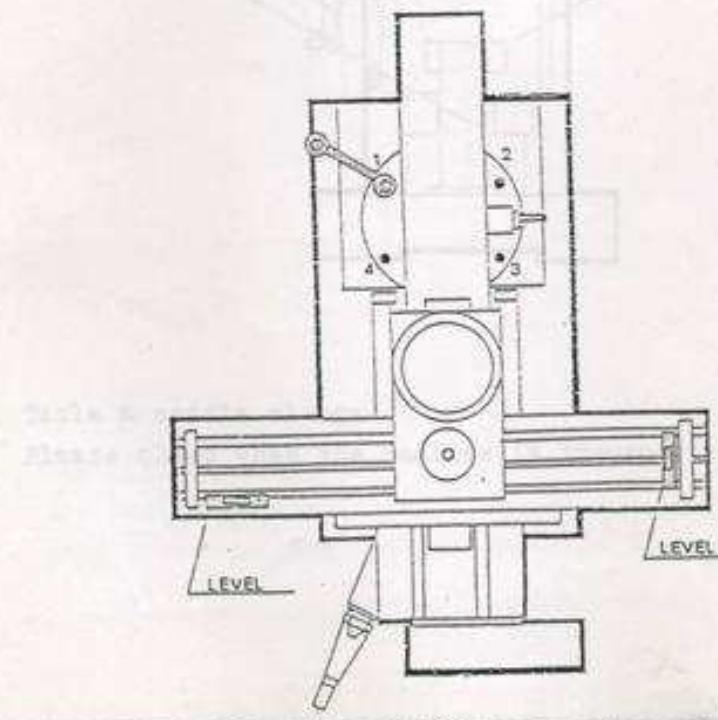
6. Draw bar

When tightening or loosening the draw bar, use spindle brake to lock spindle.



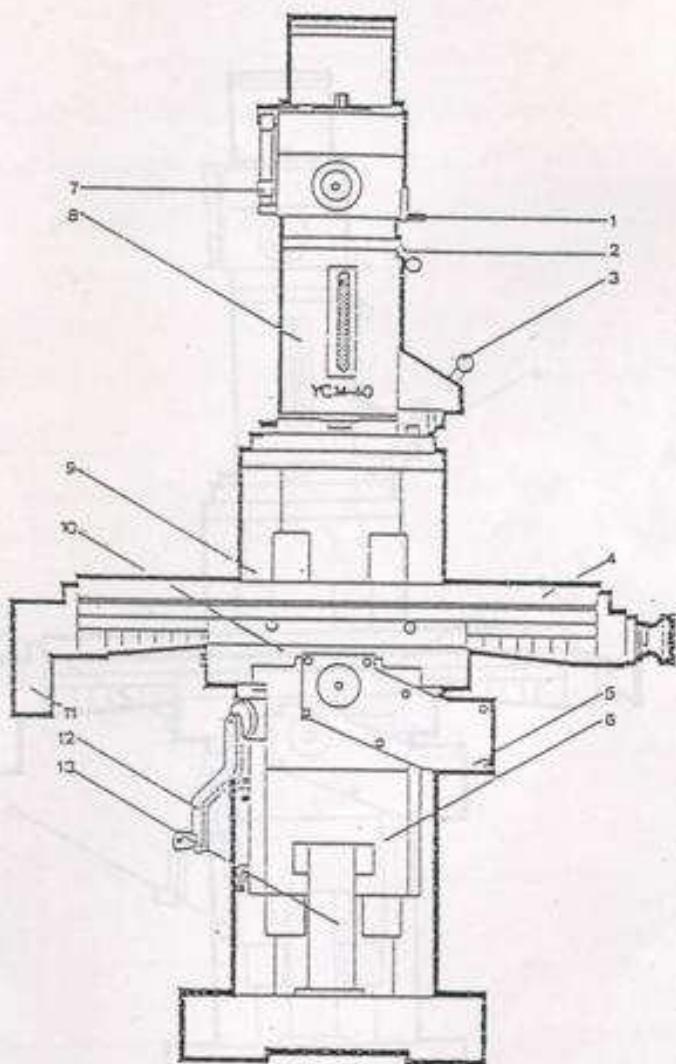
7. Positioning of ram-front to rear

Loosen two levers "A" and move ram toward front or rear by handle "B" and tighten two screws again.



8. Turret rotation

To rotate turret, loosen four bolts with wrench index to the required setting and tighten four bolts.



9. Table & saddle clamps

Please clamp when the machine is transported.

4-2. Disassembly of the drive belt section

1. Remove the motor.
2. Remove the three screws "A", insert into the adjacent tapped holes and withdraw bearing housing "B".
3. Remove four screws "D".
4. Remove screws "E".
5. Remove lock nut "G" and turn speed change plate pivot stud "H" clockwise to remove.
6. Remove top housing "F", tap to clear the dowels.
7. Replace the belt.

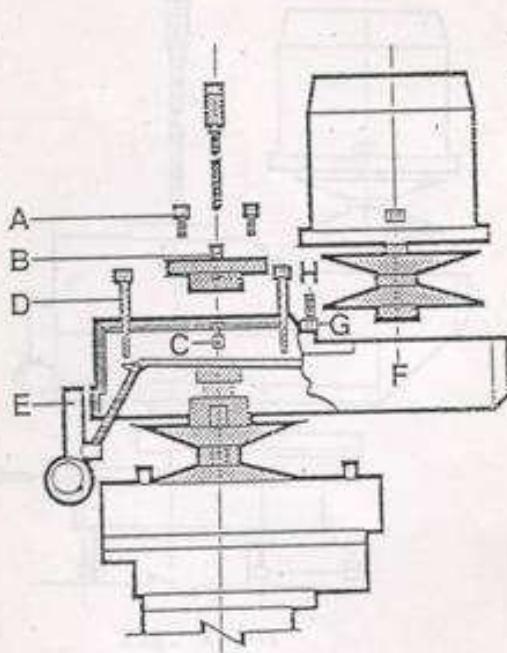


Fig. 4-2-1

DISASSEMBLY AND ASSEMBLY OF HEAD MAINSECTION

4-1. Disassembly of the motor section

1. Run head to adjust to the lowest speed.
2. Disconnect form power source.
3. Remove two screws "A" and remove cover "B".
4. Using two M5-0.8P screws "F", compress spring "C".
5. Rotate the speed changer to the highest speed.
6. Remove the reversing switch from the belt housing.
7. Remove the two bolts "D".
8. Lift the motor and rest the case on stud "E".
9. Ease the belt over the lower drive disc and remove the motor.

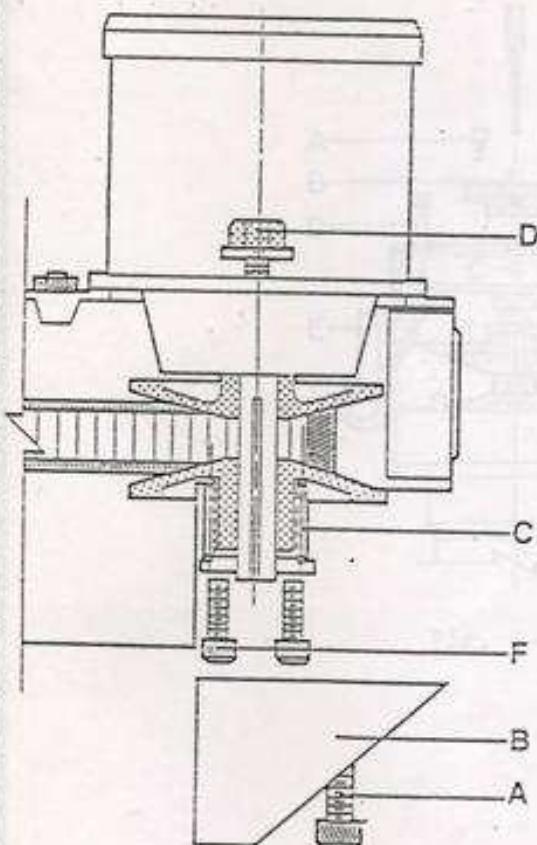


Fig. 4-1-1

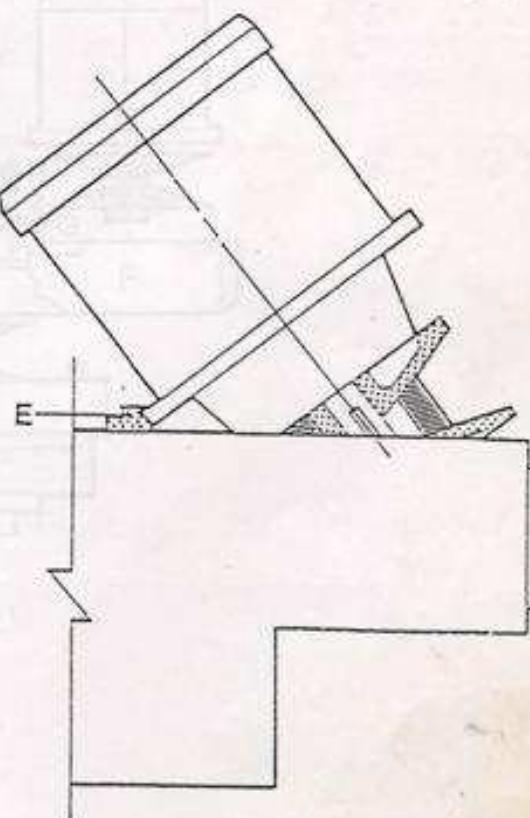


Fig. 4-1-2

4-3. Disassembly of the timing belt section,

1. Remove the motor.
2. Lower the quill to full extent.
3. Remove the two screws "A" from the lower speed changer housing.
4. Remove the four screws "B".
5. Remove the top assembly "C" and tap to clear dowels.
6. Replace the belt.

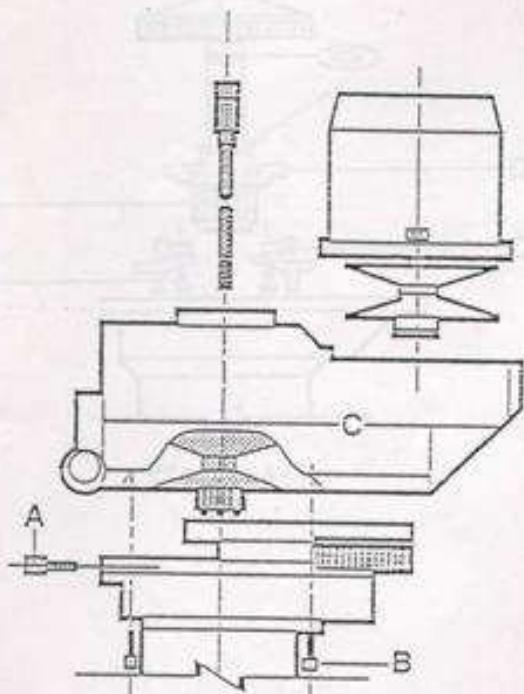


Fig. 4-3-1

4-4. Disassembly of the brake shoe section.

1. Remove the top section.
2. Remove the two screws "A".
3. Remove the clutch hub assembly "B" and "D".
4. Replace the brake shoes "C".

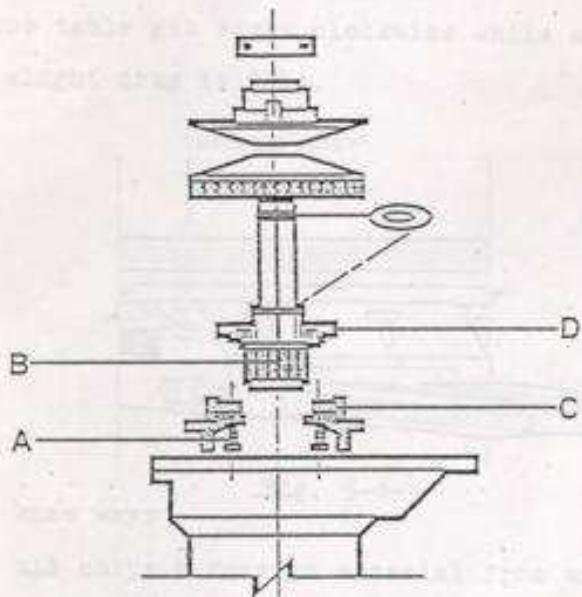


Fig. 4-4-1

POWER DRAW BAR (OPTIONAL)

INSTALLATION

- . Prior to installation, be sure that:
 1. the air pressure is at least 70 psi
 2. there is no water in the air line
- . Make sure the socket fits over the drawbar. If necessary, sand the drawbar down until it fits.
- . Mount the Automatic Power Drawbar over the bearing plate. Use the existing jack holes in the bearing plate to tighten the Automatic Power Drawbar to the milling machine.
- . The pushbutton main valve is to be installed on the left-hand side over the quill feed selector with screws provided.
- . Connect the air hose to the manifold device.
Note: The manifold device is for Automatic Power Drawbar air, air mist, and shop air. Plug up any unused inlets.
- . Safety feature: The Automatic Power Drawbar is provided with a solenoid valve for maximum safety. When the milling machine is on, the unit is inoperable. (See enclosed installation instruction)

OPERATION

- . Press the "IN" button to install a tool.
- . Press the "OUT" button to remove a tool.

MAINTENANCE

- . Install air line lubricator on the air line (provided.)
- . If no air line lubricator is installed, lubricate the unit manually every day. (Remove cover. Squirt a couple of drops of lubricant oil into the 2 side holes of the Automatic Power Drawbar.)

* This unit has been tested at the rate of 150 cycles/min X 8 hr X 20 days.

ATTENTION!

Model 2j v

Your new power drawbar is provided with splined drawbar.

When installing:

- A. Insert anew splined drawbar, make sure to use a spacer from the old one.
- B. Remove cover from the unit.
- C. Place unit on top of the bearing plate, align 3 holes in the base of the unit with tapped $\frac{1}{4}$ -20 holes in the bearing plate of the machine, push unit down by applying pressure. Unit will engage on spline. Hold in down position and tighten 3 soc. hd. cap screw (provided).

ADJUSTMENT OF GIBS

To take up wear of slide guide ways, which will be inevitable after the machine has been used for a long time. Whenever necessary adjust these gibs in the following manner.

5-1. Table saddle ways

1. Remove all chips & foreign material from area.
2. Turn the table gib screw clockwise while moving the table until slight drag is felt.

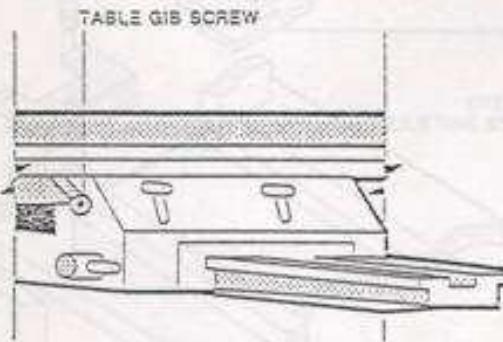


Fig. 5-1-1

5-2. Saddle knee ways

1. Remove all chips & foreign material from area.
2. Remove chip wiper guard and wiper.
3. Turn gib adjusting screw clockwise while moving the saddle until slight drag is felt.
4. Be sure that chip wiper guard and wiper are replaced.

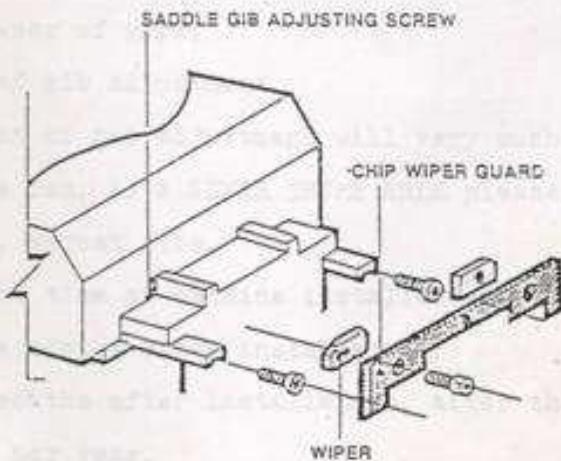


Fig. 5-2-1

5-3. Knee column ways

1. Remove all chips & foreign material from area.
2. Remove chip wiper guard and wiper.
3. Turn gib adjusting screw clockwise while moving knee until slight drag is felt.
4. Be sure that chip wiper guard and wiper are replaced.

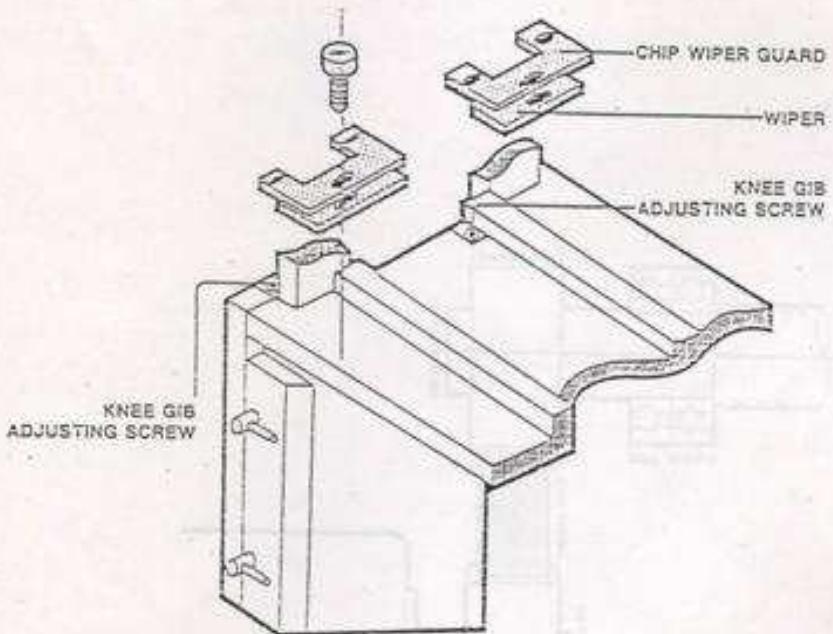


Fig. 5-3-1

CAUTION: If the tapered gibs is tightened too strong, it will cause lost lub-oil film and as a result in burring and quick wear of ways.

NOTE: Interval of gib adjustment

Requirement of gib adjustment will vary much with how the machine is run. As a GENERAL THUMB RULE please check, and if necessary, adjust gibs.

- (1). At the time of machine installation.
- (2). Three months after installation.
- (3). Six months after installation, after that,
- (4). Once per year.

TENSION ADJUSTMENT OF THE X,Y,Z AXIS DRIVE BELT

The X,Y,Z axis is driven as shown in the Fig. 6-1-1 by the timing belt directly connected to the DC servo-motor shaft. the tension adjustment of the timing belt is done in the factory.

NOTE : For further detailes of driven mechanism, please refer to layout of this manual.

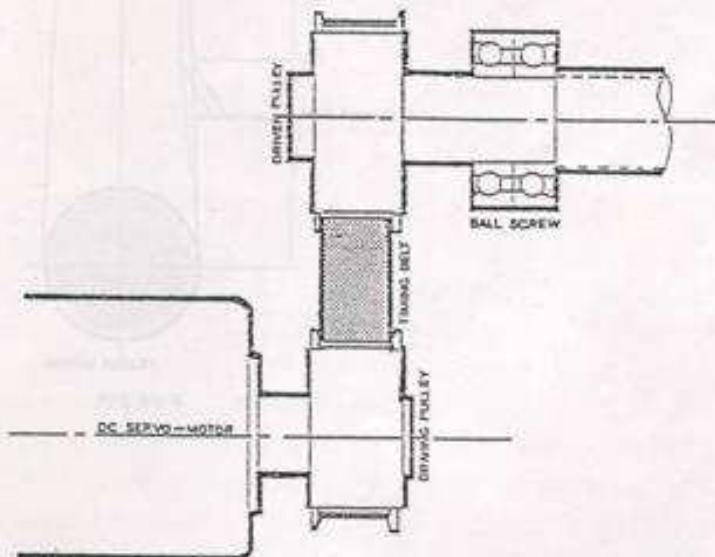


FIG. 6-1-1

Timing belt adjustment

When the belt becomes loosened up or when the belt is changed, tension adjustment of the belt is necessary.

Tension adjustment is made, by the tension load to the belt in the middle of the centers of the two pulleys and by the deflection amount of the timing belt.

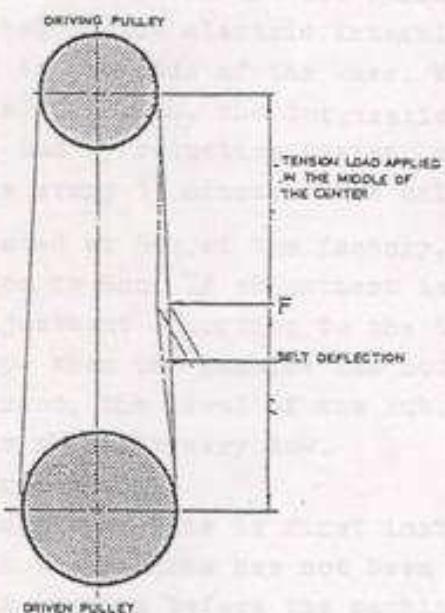


FIG 61-2

	Tension load (Kgs)	Belt deflection
X axis	0.9	1.3
Y axis	0.9	3.4
Z axis	0.95	3.1

LUBRICATION

The machine must be lubricated before it is started, the use of the proper lubricant at the designated places is necessary to obtain the best operating performance and to insure the maximum service life of the machine.

7-1. Lubrication pump and all slideways lubrication chart.

Slide guideways for the table (X), the saddle (Y), the vertical knee travel and the ballscrews of X,Y axis are lubricated by the electric intermittent pump which is located at the side of the knee. When the power of machine is turned on, the lubrication pump automatically starts, and by reduction system, pumps out the oil by 5cc once every 15 minutes. The oil amount per one cycle is adjusted at 5cc at the factory, but is adjustable between 3cc to 6cc. If adjustment is necessary, please make adjustment according to the instruction attached on the pump. When the machine has not been operated for a long period, the level of the lub. oil in the hydraulic pipes is normally very low.

Therefore:

- 1)When the machine is first installed, or
- 2)When the machine has not been operated long time, and
- 3)Each morning before the machine is started,
Hand-operate the plunger lever (Fig. 7-1) to check and make sure that lubrication oil is fully circulated to all guideways sufficiently. Pull up the plunger lever slowly and release it. Repeat this until the lubrication oil seeps out from the guideway.

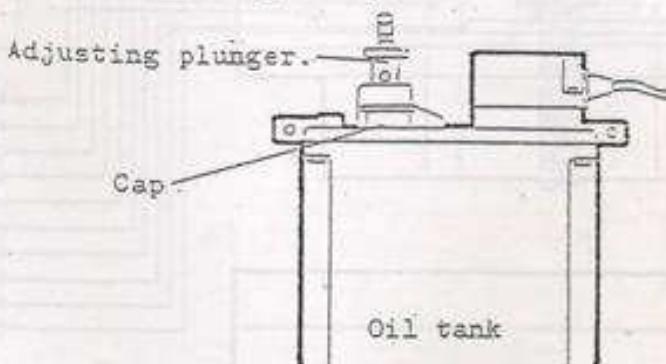


Fig. 7-1

Lubrication tank

Caution: Do not pull up or push down the lever violently to pump out the oil.

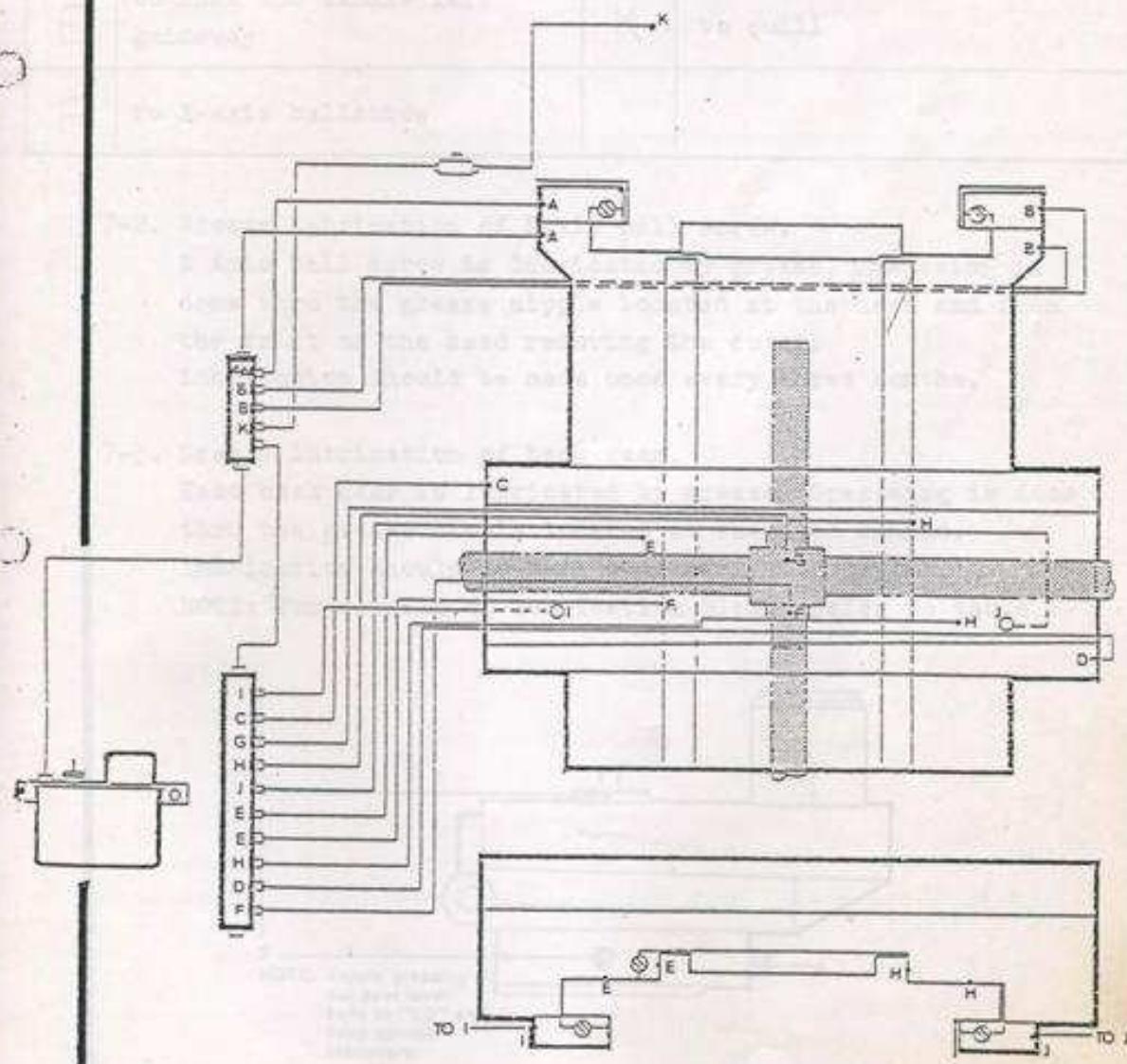
Such handing of the lever will suck air into oil, or may even damage the equipment.

Oil tank capacity is 2 liter.

Note: *When the lubricant goes below the specified level, replenish lubricant at once.

The following lubrication chart shows the layout of pipe, distributor, and the lubricated position.

For example, the i outlet at the distributor is connected to saddle of I inlet, and symbol i means to lubricate the gib of saddle guide.(left)



symbol	Lubrication position		
A	to elevating left guideway	G	to Y-axis ballscrew
B	to elevating right guideway	H	to knee and saddle right guideway
C	to table and saddle rear guideway	I	to saddle left guide gib
D	to table and saddle front guideway	J	to saddle right guide gib
E	to knee and saddle left guideway	K	to quill
F	to X-axis ballscrew		

7-2. Grease lubrication of Zaxis ball screw.

Z Axis ball screw is lubricated by grease. Greasing is done thru the grease nipple located at the head and from the front of the head removing the cover.

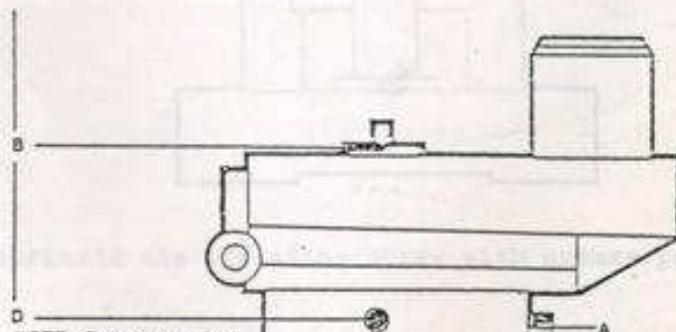
Lubrication should be made once every three months.

7-3. Grease lubrication of back gear.

Head back gear is lubricated by grease. Greasing is done thru the grease nipple located at the head behind.

Lubrication should be made once every two months.

NOTE: For details of lubrication please refer to table 7-1



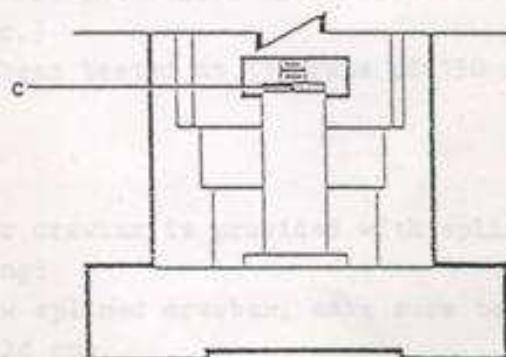
NOTE: Before greasing
put gear lever
back to "LO" and
keep spindle
stationary.

TABLE 7-1
YCM - 40. LUBRICATION CHART

Lubrication Item	Column, Saddle, Table Guide ways, Quill, X/Y Axis Ball Screws.	Z Axis Ball Screws	Back Gear
Frequency of Inspection/Oil change	Once every week	Once every 3 months	Once every 2 months ..
Sheel	Tonna T-68	Alvania Grease NO:2	Alvania Grease NO:2
Mobil	Vactra NO:2	Mobilux NO:2	Mobilux NO:2
Esso	Febis K-68	Andok B	Andok B
Quantity	2 Liter *	Adequate	Adequate

Note: When the lubricant goes below the specified level, replenish
lubricant at once. (* mark)

Before greasing put gear lever back to " LO " & keep spindle
stationary. (** mark)



Please lubricate the elevating screw with grease per 2 weeks.

Service instructions

When ordering replacement parts the following information should be forwarded.

1. Part number
2. Name of part
3. Quantity

If to order a replacement not found in any of the following lists, a complete description, and if necessary a sketch, should be forwarded with quantity and serial number of machine.

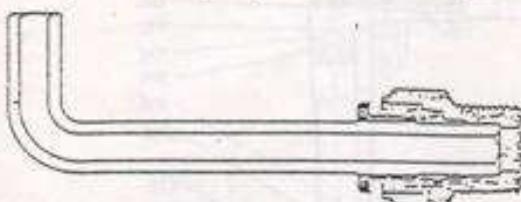
Normal temperature rise at 4000 R.P.M. is 25° C (77 F) above ambient. If substantially higher head temperatures are encountered check adjustment of brake.

0029	831930600	BEARING(9306)	1.000
0030	600050200	HSH CAP SCREW(M5X20)	4.000
0031	FM-008A	HOUSING	1.000
0032	403131020	NAME PLATE	1.000
0033	606040060	PAN HEAD SCREW(M4X6)	2.000
0034	601040100	HSH CAP SCREW(M4X10)	8.000
0035	FM-118	SCALE	1.000
0036	FM-035C	Z-AXIS BALL-SCREW(5.08)	1.000
0037	600080400	HSH CAP SCREW(MBX40)	1.000
0038	FM-131A	SLEEVE CONNECTER	1.000
0039	600050120	HSH CAP SCREW(M5X12)	1.000
0040	FM-034	BASE PLATE	1.000
0041	600050160	HSH CAP SCREW(M5X16)	3.000
0042	701062030	BEARING(6203)	1.000
0043	600060180	HSH CAP SCREW(M6X18)	3.000
0044	FM-117	CLUTCH SEAT	1.000
0045	FM-147	SPACER	1.000
0046	FM-148	SPACER	1.000
0047	FM-138	SPINDLE SLEEVE	1.000
0048	FM-149	NUT	1.000
0049	600050160	HSH CAP SCREW(M5X16)	4.000
0050	FM-016	FLANGE	1.000
0051	600080300	HSH CAP SCREW(MBX30)	4.000
0052	713720711	BEARING	1.000
0053	617035000	LOCK NUT(M35X1.5P)	2.000
0054	FM-145	COVER	1.000
0055	605360381	ROUND HEAD SCREWS(3/16X3/8)	2.000
0056	600050160	HSH CAP SCREW(M6X16)	5.000

"J" Model (pulley type)

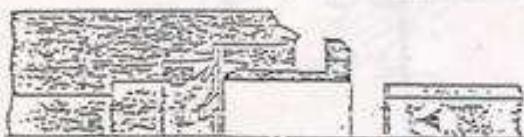
Follow same instructions as 2j (variable) except, when unit is aligned mark placement, drill and tap for $\frac{1}{4}$ -20.

ASSEMBLY IN CONFINED AND REMOTE SPACES



All straight male connectors have an internal hex for the use of an Allen Key to allow the fitting to be mounted in any position. This also permits close porting not possible with a standard wrench.

ASSEMBLY INSTRUCTIONS



fitting before assembly

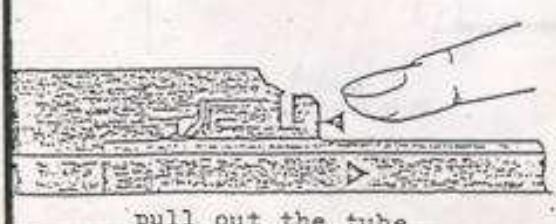
- Insert the tube until it bottoms
1. Radial claws of the grab ring open themselves.
 2. The special shape of the claw avoids any longitudinal draw marks on the tube.



tube in the fitting

Sealing is provided by O-ring seal

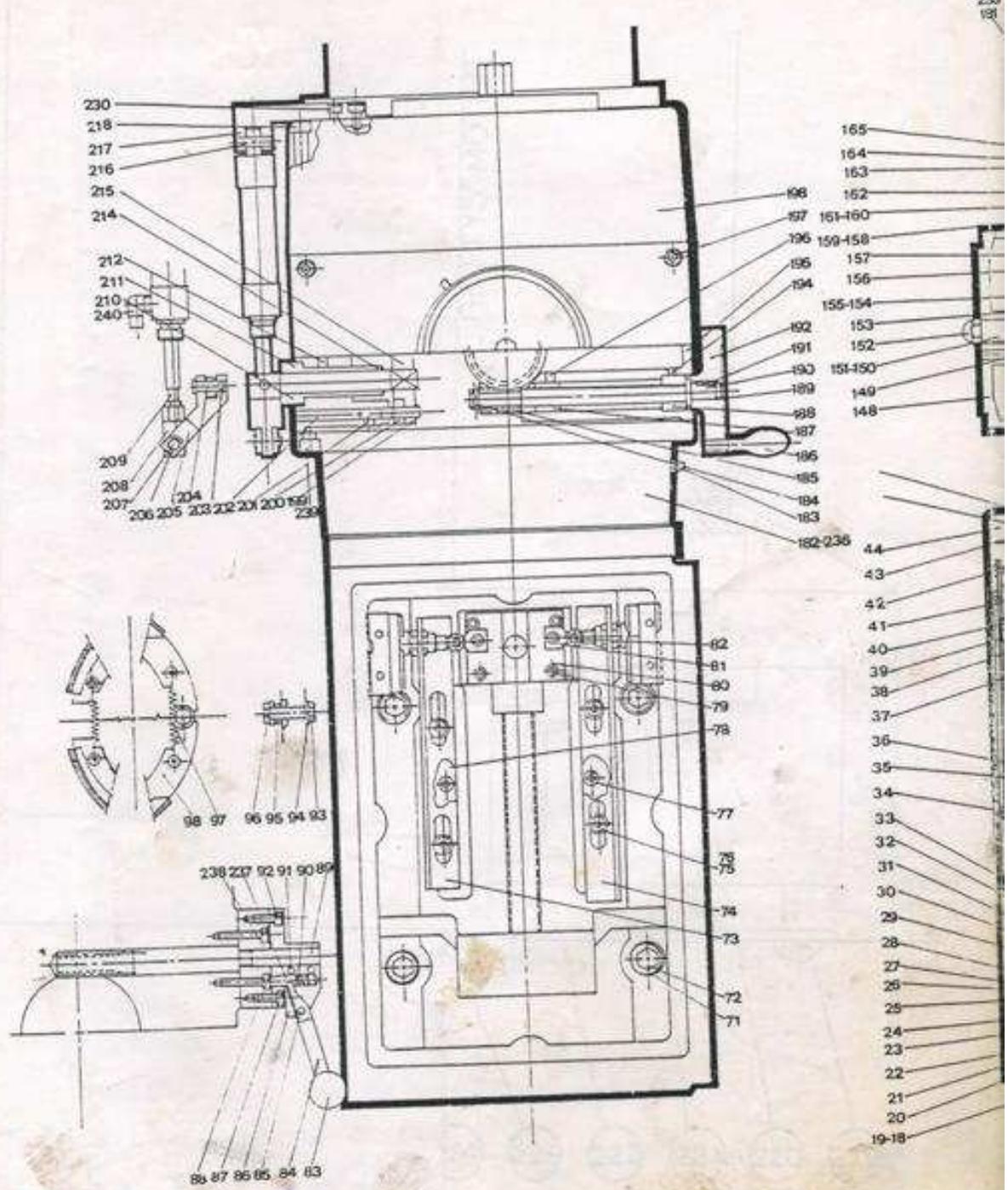
1. Due to the special design of the fitting, the grab ring cannot be deformed.
2. Once in the fitting, the tube can rotate freely even under pressure.

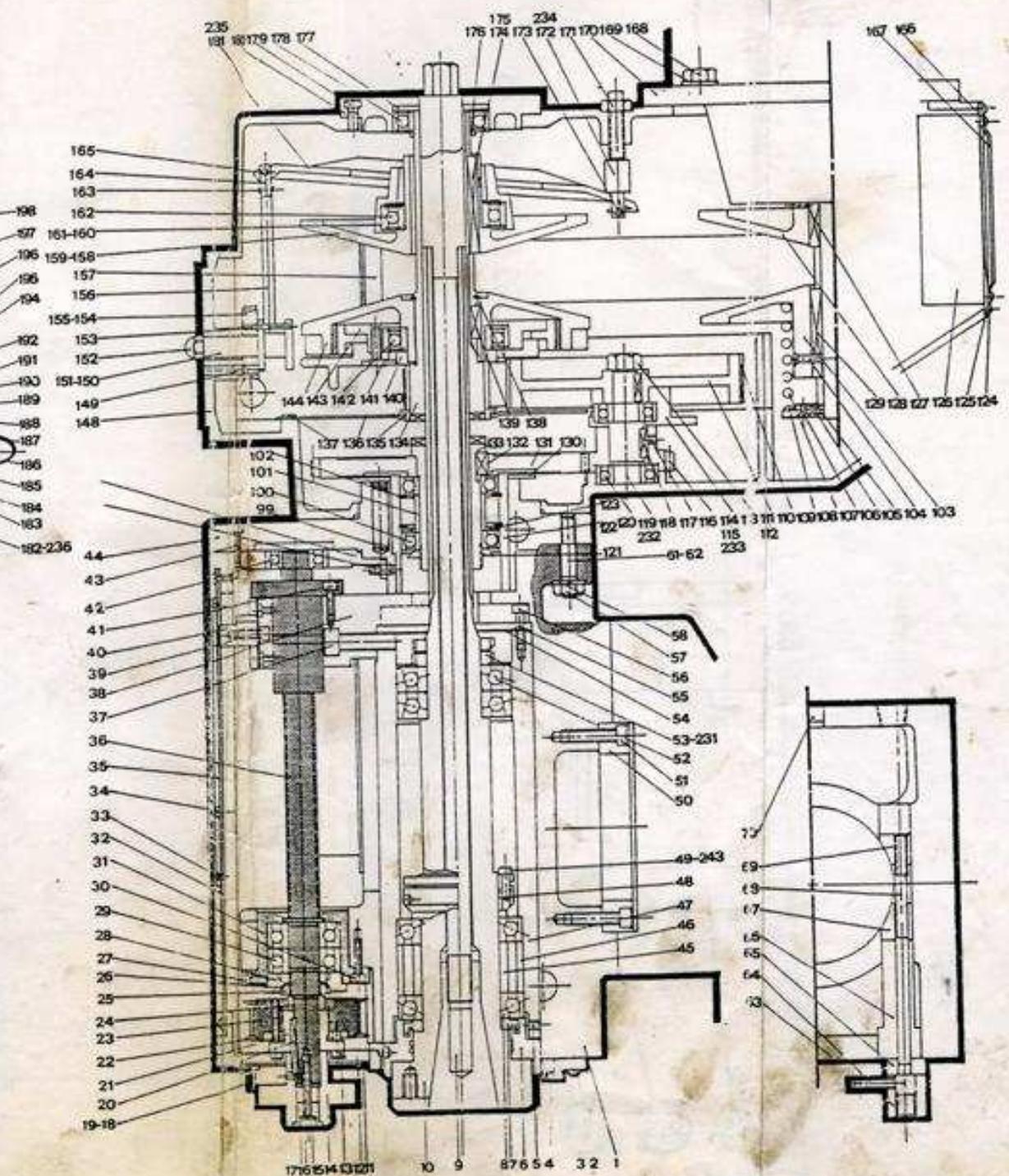


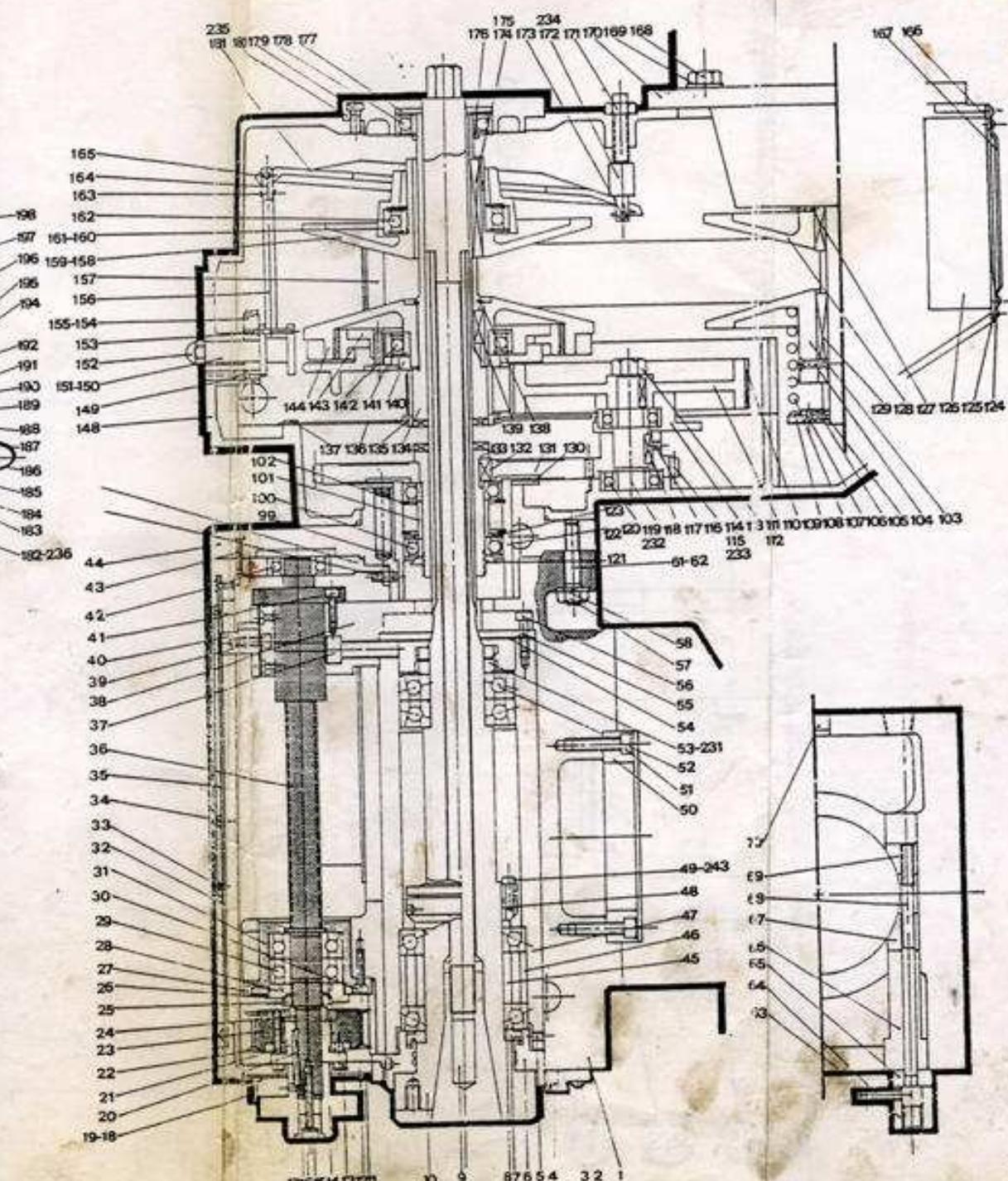
pull out the tube

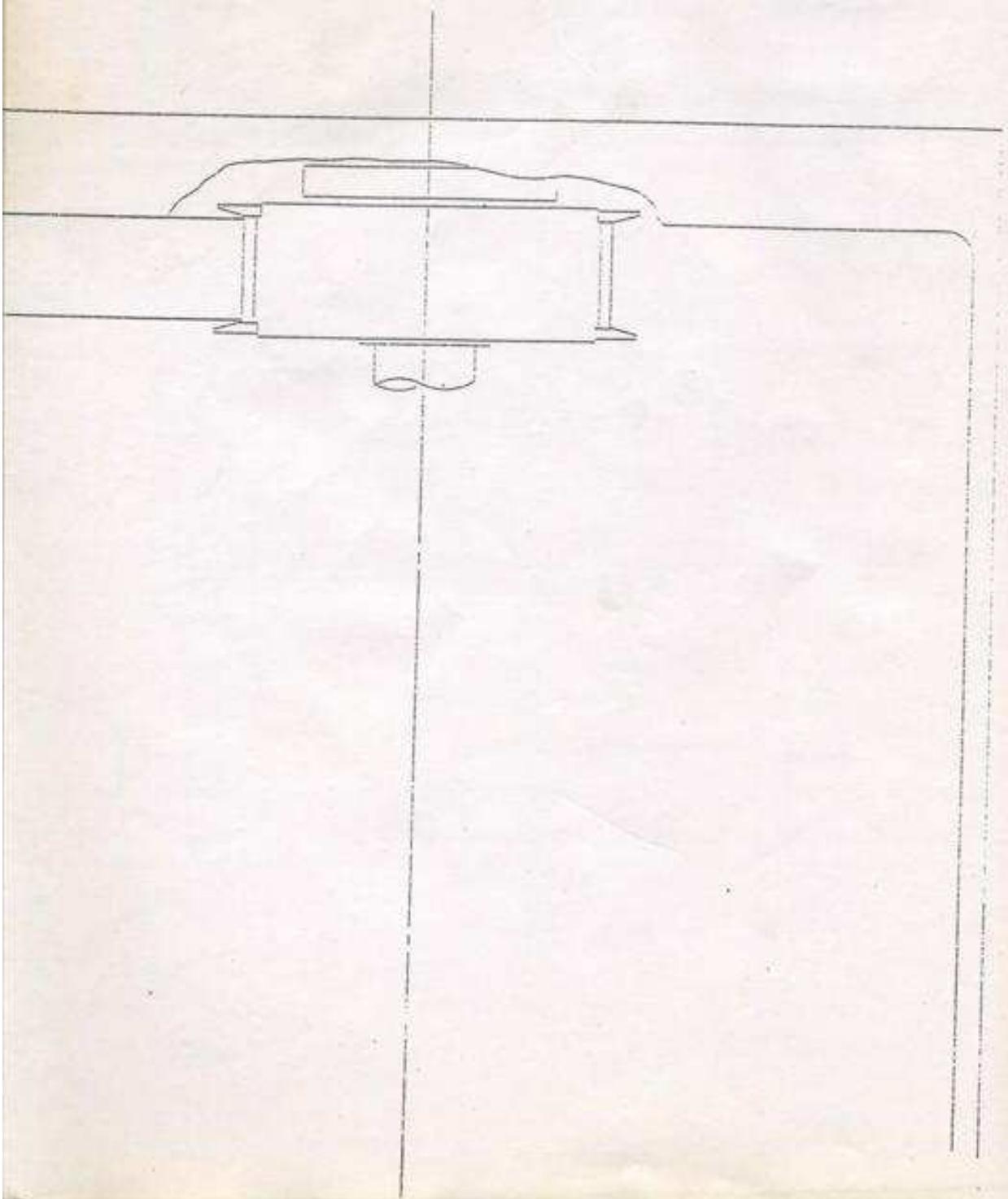
Prestolok needs no special tools to remove the tube

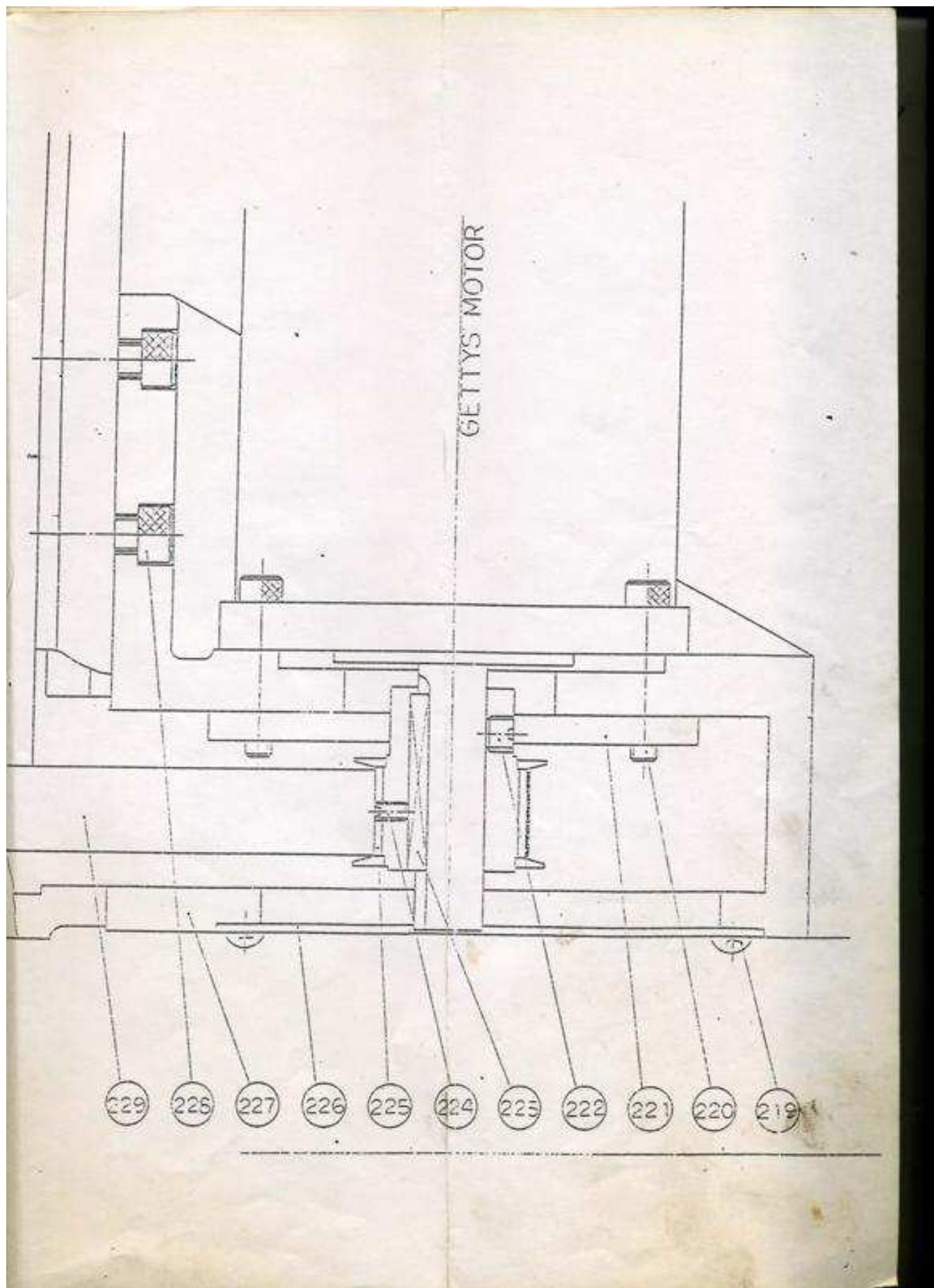
1. Just a simple manual pressure on the pushsleeve allows the grab ring to open itself, so freeing the tube.





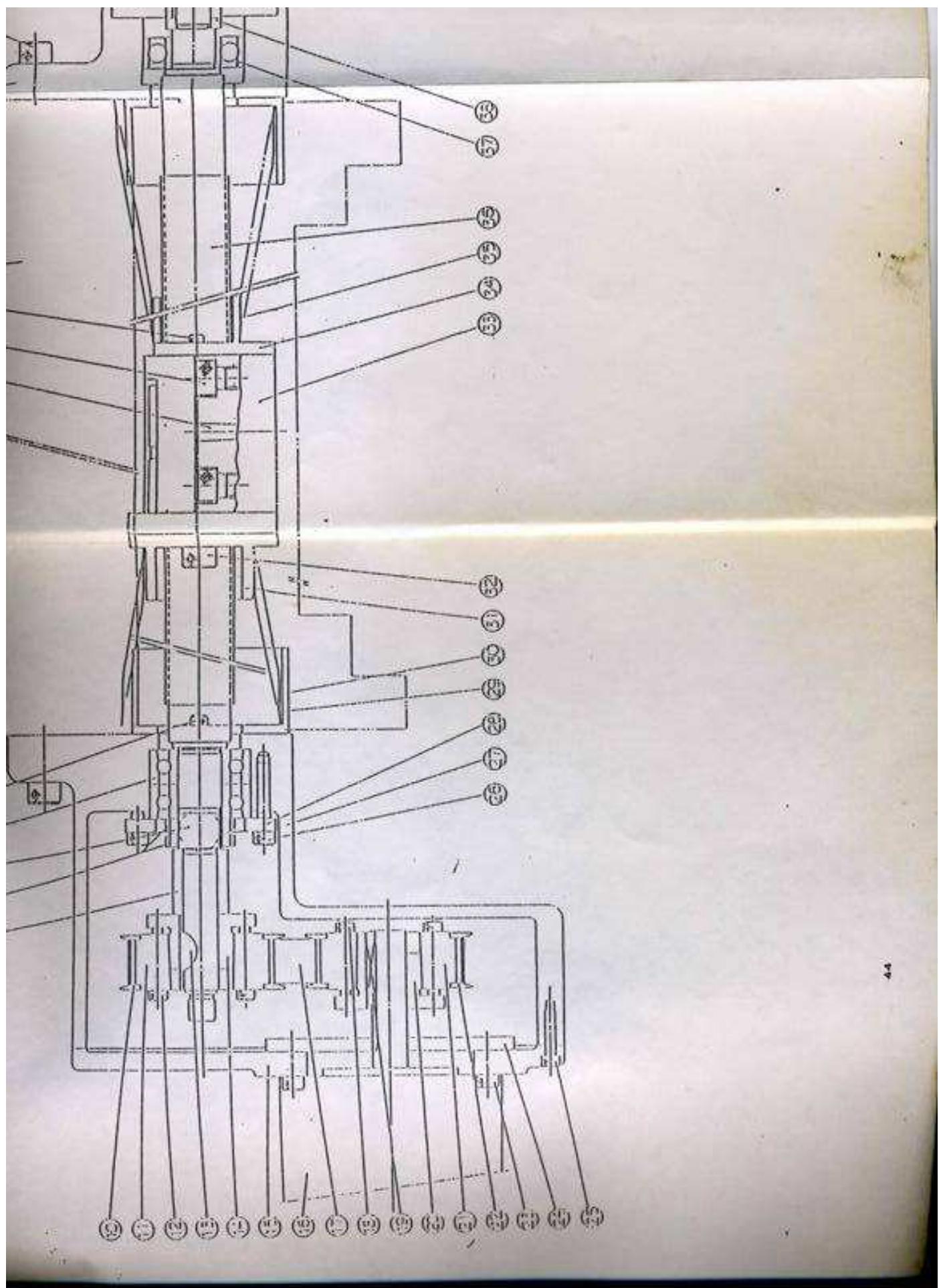






0001	FM-120	HEAD	1.000
0002	601040100	HSH CAP SCREW(M4X10)	4.000
0003	FM-125A	SEAL PLATE	1.000
0004	678100020	DUST SEAL(DR100)	1.000
0005	604050050	SET SCREW(M5X5)	1.000
0006	FM-137	HOSE-PIECE	1.000
0007	FM-146	SPINDLE DIRT SHIELD	1.000
0008	714701021	BEARING	1.000
0009	FM-152	DRAW BAR	1.000
0010	FM-136	SPINDLE	1.000
0011	FM-135	COVER	1.000
0012	601040100	HSH CAP SCREW(M4X10)	4.000
0013	600050200	HSH CAP SCREW(M5X20)	2.000
0014	FM-112	KNOB	1.000
0015	600050400	HSH CAP SCREW(M5X40)	1.000
0016	652036001	SPRING WASHERS(3/16")	1.000
0017	FM-113	WASHER	1.000
0018	FM-060	INDEX(Z DIAL POINTER)	1.000
0019	601040100	HSH CAP SCREW(M4X10)	2.000
0020	630040350	PARALLEL KEY	1.000
0021	FM-114	Z-AXIS PULLEY ADAPTER	1.000
0022	FM-017A	PULLEY COVER	2.000
0023	FM-111	Z-AXIS PULLEY	1.000
0024	FM-110	SLEEVE	1.000
0025	617020000	LOCK NUT(M20X1P)	2.000
0026	653020000	LOCKING WASHER(AW-04)	1.000
0027	604040050	SET SCREW(M4X5)	2.000
0028	FM-009	LOCK NUT	1.000

0057	615038001	NUTS(3/8")	4.000
0058	652008000	SPRING WASHERS(SWB)	4.000
0061	FM-153	STUD	2.000
0062	FB-077	STUDS	2.000
0063	FM-031	ADJUSTING SEAT	1.000
0064	FM-041	LINK AGE	1.000
0065	FM-012	SLEEVE	1.000
0066	FM-029	SPACER	1.000
0067	FM-133M	QUILL LOCK SLEEVE	1.000
0068	FM-030	FIXED LEVER	1.000
0070	FE-030	KNEE BINDER PLUG(PLASTIC)	2.000
0071	652014000	SPRING WASHER(M14)	4.000
0072	600140600	HSH CAP SCREW(M14X60)	4.000
0073	FM-036	PLATE	1.000
0074	FM-037	SWITCH	1.000
0075	600080160	HSH CAP SCREW(M8X16)	4.000
0076	FB-084	WASHER	4.000
0077	600060500	HSH CAP SCREW(M6X50)	6.000
0078	FM-122	PLATE	2.000
0079	600040100	HSH CAP SCREW(M4X10)	4.000
0080	FM-123	BASE PLATE	1.000
0081	FM-038	CARRY PLATE	2.000
0082	600050160	HSH CAP SCREW(M5X16)	2.000
0083	FA-006	BLACK PLASTIC BALL,1&1/8"X1/	1.000
0084	FB-070	HI-LOW SHIFT CRANK	1.000
0085	622030015	SPRING PINS(3X15)	1.000
0086	FB-075	HI-LOW PINION BLOCK	1.000
0087	600050100	HSH CAP SCREW(M5X10)	2.000



0088	600050250	HSH CAP SCREW(M5X25)	2.000
0089	FB-314	BULL GEAR SHIFT	1.000
0090	FB-072	SPRING	1.000
0091	600040160	HSH CAP SCREW(M4X16)	2.000
0092	FB-324	CLUTCH BASE	1.000
0093	615004001	NUTS(1/4")	1.000
0094	652004001	SPRING WASHERS(1/4")	1.000
0095	FB-069	BRAKE SHOE PIVOT SLEEVE	1.000
0096	602041001	HEXAGON HEAD BOLTS(1/4"X1")	1.000
0097	FB-063	BRAKE SPRING	2.000
0098	FB-062	BRAKE SHOES	1.000
0099	FM-156	SPRING	3.000
0100	701069084	BEARING(6908-2RS)	2.000
0101	FB-027	BULL GEAR BEARING SPACER	1.000
0102	666062000	INNER RETAINING RINGS(B-62)	2.000
0103	FB-029	ADJUSTABLE MOTOR VARIDISC	1.000
0104	606050150	PAN HEAD SCREW(M5X15)	1.000
0105	FB-036A	KEY FOR FB-036	1.000
0106	665024000	OUTER RETAINING RINGS(A-24)	1.000
0107	606080381	PAN HEAD SCREW(1/8"X3/8")	1.000
0108	FB-035	SPRING-VARIDISC MOTOR SHAFT	1.000
0109	FB-036	ADJUST VARIDISC SPRING COLLAR	1.000
0110	066225110	TIMING BELT(225L110)	1.000
0111	FB-041	TIMING BELT PULLEY	1.000
0112	630050180	PARALLEL KEY(5X5X18)	1.000
0113	615058001	NUTS(5/8")	1.000
0114	FB-031	PINION BEARING CAP	1.000
0115	600050140	HSH CAP SCREW(M5X14)	2.000

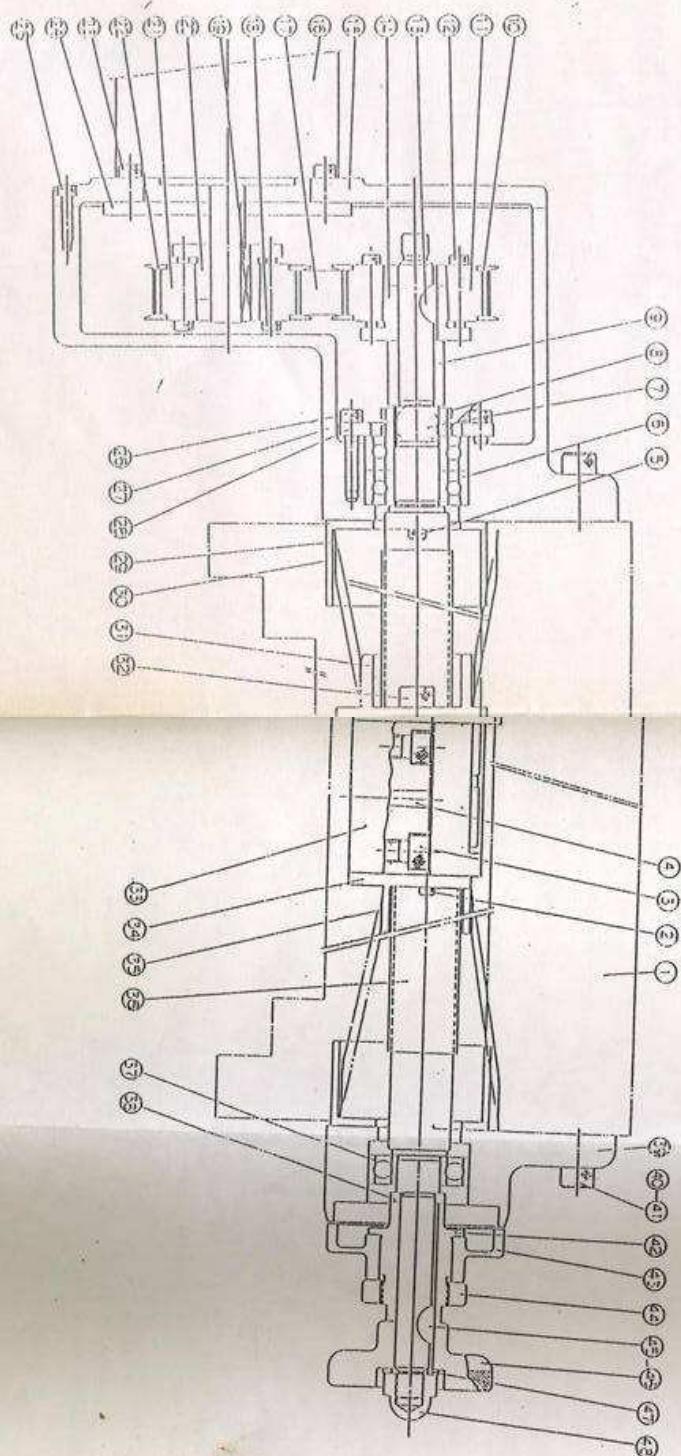
0116	FB-040A	PINION(A)	1.000
0117	604060060	SET SCREW(M6X6)	1.000
0118	630050180	PARALLEL KEY(5X5X18)	1.000
0119	FB-039	PINION SHAFT	1.000
0120	701062034	BEARING(6203-2RS)	2.000
0121	FB-019	BEARING LOCKNUT	1.000
0122	FM-154	SLEEVE	1.000
0123	FB-028	WAVE SPRING(6206)	1.000
0124	605050100	ROUND HEAD SCREWS(M5X10)	4.000
0125	FB-091	FAN PLATE	1.000
0126	FB-089	FAN(220V)	1.000
0127	604060100	SET SCREW(M6X10)	1.000
0128	FB-030	STATIONARY MOTOR VARIDISC	1.000
0129	FB-034	KEY-ADJ VARIDISC MOTOR SHAFT	1.000
0130	FB-025	WASHER	1.000
0131	FB-021A	SPINDLE BULL GEAR(A)	1.000
0132	FM-142	KEY	1.000
0133	FM-139	OUTPUT CLUTCH	1.000
0134	FM-140	SPINDLE PULLEY HUB	1.000
0135	FB-017	TIMING PULLEY CLUTCH SLEEVE	1.000
0136	FB-325	GEAR HOUSING COVER	1.000
0137	6063603B1	PAN HEAD SCREW(3/16"X3/8")	3.000
0138	665040000	OUTER RETAINING RINGS(A-40)	1.000
0139	FM-143	KEY	1.000
0140	FB-016	SPINDLE PULLEY SPACER	1.000
0141	701060104	BEARING(6010-2RS)	1.000
0142	600060200	SH CAP SCREW(M6X20)	2.000
0143	FB-307	BEARING HOUSING COVER	1.000

0144	FB-012	STATIONARY DRIVEN VARIDISC	1.000
0148	FB-303	SPEED CHANGER HOUSING	1.000
0149	FB-085	FULL DOG	1.000
0150	FB-311	SPEED CHANGE CHAIN DRUM	1.000
0151	FB-317	BUSH	1.000
0152	FB-056	HEX CAP NUT(5/16")	1.000
0153	622030030	SPRING PINS(3X30)	1.000
0154	FB-310	SPEED CHANGER GEAR	1.000
0155	622050010	SPRING PINS(5X10)	1.000
0156	FB-315	ROLLER CHAIN	1.000
0157	FB-082	BELT(875VC,3830)	1.000
0158	FM-159	PULLY	1.000
0159	FM-157	SLEEVE	1.000
0160	FB-014	SPINDLE PULLEY BEAR SLIDE HO	1.000
0161	600050250	HSK CAP SCREW(M5X25)	2.000
0162	701060104	BEARING(6010-2RS)	1.000
0163	132038000	CONNECT LINK(35#,3/8")	1.000
0164	FB-059	SPEED CHANGE CHAIN STUD	1.000
0165	622040030	SPRING PINS(4X30)	1.000
0166	605080581	ROUND HEAD SCREWS(1/8X5/8)	4.000
0167	FB-088	IRON WIRE	1.000
0168	602381041	HEXAGON HEAD BOLTS,3/8"X1&1/	2.000
0169	652038001	SPRING WASHERS(SW3/8)	2.000
0170	413062156	16MOTOR 3HP 4P3PH 220/440V60	1.000
0171	615058001	NUTS(5/8")	1.000
0172	FB-318	SCREW	1.000
0173	633061001	SPLIT PINS(1/16"X1")	1.000
0174	FB-010	KEY FOR FB-008	1.000

0175	606530041	PAN HEAD SCREW(5/32"X1/4")	1.000
0176	FM-158	SPACER	1.000
0177	FB-028	WAVE SPRING(6206)	1.000
0178	701060072	BRARING(6007-2Z)	1.000
0179	600060200	HSH CAP SCREW(M6X20)	3.000
0180	FB-006	TOP BEARING CAP	1.000
0181	FB-057	SPEED CHANGE PLATE	1.000
0182	FB-302	GEAR	1.000
0183	076008000	GREASY CUP(PT-1/8")	1.000
0184	622030012	SPRING PINS(3X12)	1.000
0185	FA-139	WORM OPERATING FINGER	1.000
0186	FB-326	HANDLE	1.000
0187	FB-322	BUSH	1.000
0188	FB-316	BUSH	1.000
0189	665010000	OUTER RETAINING RINGS(A-10)	1.000
0190	FB-309	WORM SHAFT	1.000
0191	630030100	PARALLEL KEY(3X3X10)	1.000
0192	FB-308	SPEED CHANGE HANDLE	1.000
0194	604060060	SET SCREW(M6X6)	1.000
0195	FB-301	BELT HOUSING SEAT	1.000
0196	604060060	SET SCREW(M6X6)	1.000
0197	600060300	HSH CAP SCREW(M6X30)	4.000
0198	FB-300	BELT HOUSING	1.000
0199	665005010	OUTER RETAINING RINGS(E-5)	2.000
0200	FB-067	BRAKE FINGER PIVOT STUD	2.000
0201	604060060	SET SCREW(M6X6)	1.000
0202	FB-068	BRAKE OPERATING FINGER	1.000
0203	604040060	SET SCREW(M4X6)	1.000

0204	FA-038	BRAKE LOCK PIN	1.000
0205	FM-047	BRAKE PLATE	1.000
0206	665005010	OUTER RETAINING RINGS(E-5)	2.000
0207	FM-042	PIN	1.000
0208	FM-025	JOINT	1.000
0209	FM-026H	CYLINDER(SET)	1.000
0210	FB-065	SLEEVE FOR BRAKE LOCK SHAFT	1.000
0211	FB-066A	BRAKE LOCK SHAFT	1.000
0212	604060060	SET SCREW(M6X6)	1.000
0214	665012000	OUTER RETAINING RINGS(A-12)	1.000
0215	FB-067A	BRAKE OPERATING FINGER	2.000
0216	FM-057	PIN	1.000
0217	FM-046	CYLINDER SEAT	1.000
0218	600081500	HSH CAP SCREW(MBX150)	4.000
0219	601040080	HSH CAP SCREW(M4X8)	4.000
0226	FM-005	MOTOR SEAT COVER(SUMMIT)	1.000
0227	FM-003	D.C MOTOR SEAT(SUMMIT)	1.000
0228	600080200	HSH CAP SCREW(M8X20)	4.000
0229	066225075	TIMING BELT(225L075)	1.000
0230	600050100	HSH CAP SCREW(M5X10)	2.000
0231	653035000	LOCKING WASHER(AW-07)	1.000
0232	FB-090	WASHER	1.000
0233	FB-038	WARE SPRING WASHER(6203)	1.000
0234	FB-084	WASHER	1.000
0235	FB-058	PIVOT SLEEVE	2.000
0236	600080650	HSH CAP SCREW(M8X65)	4.000
0237	FB-071	HI-LOW DETENT PLUNGER	1.000
0238	FB-323	CLUTCH BASE	1.000

0239	600080200	HSH CAP SCREW(M8X20)	4.000
0240	053004081	COPPER CONNECTOR(LIN1/4PT1/8	2.000
0241	615006000	NUTS(M6)	1.000
0242	FM-155	SELTING SCREW	1.000
0243	FM-144	SPACER	1.000



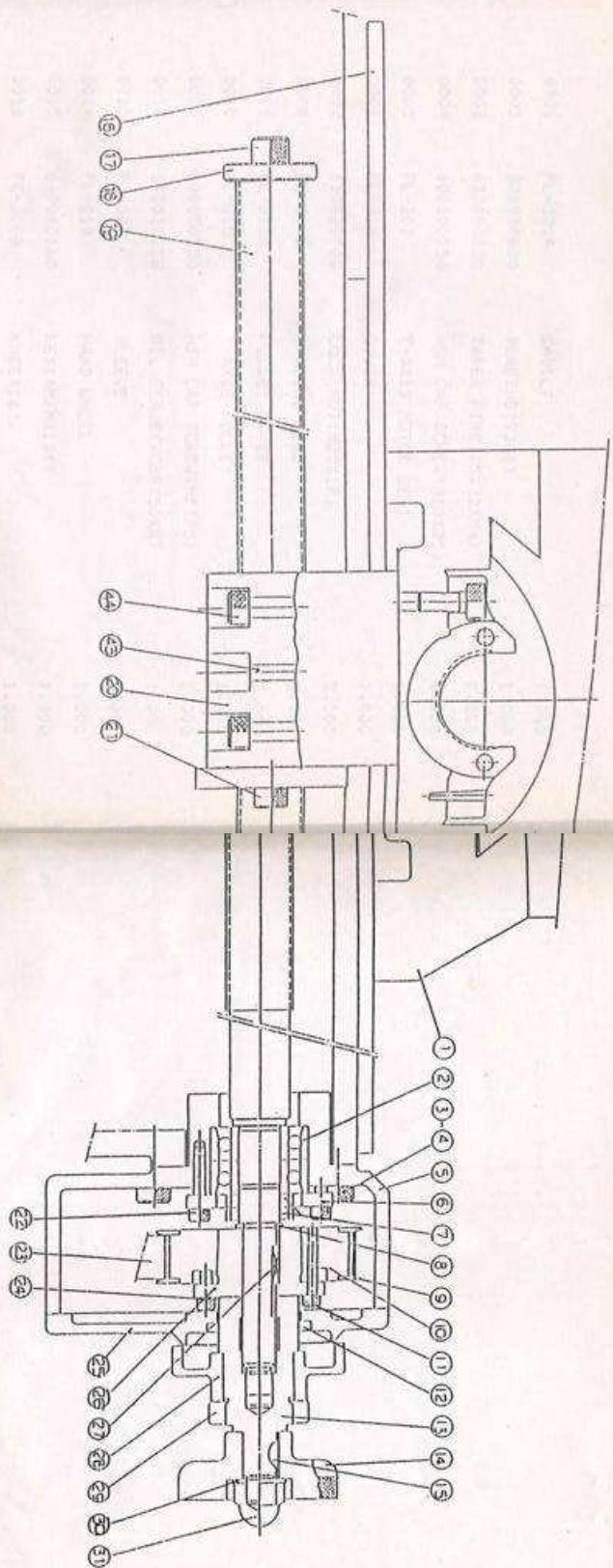
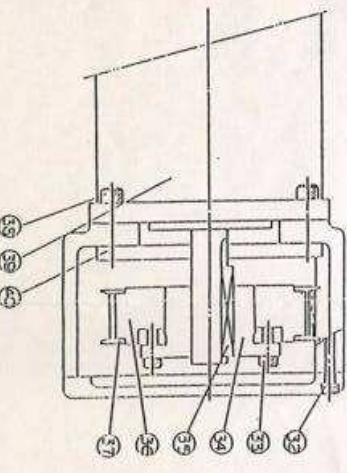
YCM-40
X-AXIS ASSEMBLY
HEONG SHIN MACH. IND CO., LTD.

0001	FC-009B	TABLE(49")	1.000
0002	600050160	HSH CAP SCREW(M5X16)	2.000
0003	600100250	HSH CAP SCREW(M10X25)	4.000
0004	623060320	TAPER PINS(46X32XMS)	2.000
0005	600050140	HSH CAP SCREW(M5X14)	4.000
0006	831930600	BEARING(9306)	1.000
0007	FE-030	KNEE BINDER PLUG(PLASTIC)	1.000
0008	617020000	LOCK NUT(M20X1P)	2.000
0009	FL-319	SLEEVE	1.000
0010	FL-014A	PULLEY COVER	2.000
0011	FL-014	X-AXIS PULLEY	1.000
0012	600050350	HSH CAP SCREW(M5X35)	2.000
0013	640040190	KEY(4X19)	1.000
0014	FL-016	X-AXIS PULLEY ADAPTER	1.000
0015	FL-337	X-AXIS MOTOR SEAT COVER,SUMM	1.000
0017	066150075	TIMING BELT(150L075)	1.000
0018	600050350	HSH CAP SCREW(M5X35)	2.000
0019	630050500	PARALLEL KEY(5X5X50)	1.000
0020	FL-016A	X-AXIS MOTOR PULLEY ADAPTER	1.000
0021	FL-014	X-AXIS PULLEY	1.000
0022	FL-014A	PULLEY COVER	2.000
0023	600060250	HSH CAP SCREW(M6X25)	4.000
0024	FL-003	FIXED NUT(SUMMIT)	2.000
0025	600050160	HSH CAP SCREW(M5X16)	6.000
0026	600060250	HSH CAP SCREW(M6X25)	4.000
0027	FL-336	X-AXIS MOTOR SEAT	1.000
0028	FL-018	COVER	1.000
0029	FL-327	HOLDER	2.000

0001	FD-004B	HOOK	1.000
0002	605050120	ROUND HEAD SCREWS(M5X12)	6.000
0003	FL-326	COVER	1.000
0004	FD-300B	COLUMN	1.000
0005	FD-021	RAM LOCK STUD	1.000
0006	FE-034	CAP SCREW	1.000
0007	FD-312	PLATE	1.000
0008	FD-312A	WIPER PLATE	1.000
0009	FD-318	WIPER	1.000
0010	FD-319	WIPER	1.000
0011	FE-034	CAP SCREW	1.000
0012	FL-328	CHIP GUARD(16")	1.000
0013	FL-330 FL-329	CHIP GUARD(16")	1.000
0014	FL-331	CHIP GUARD(16")	1.000
0015	FC-010	STOP PIECE T-BOLT	2.000
0016	FC-011	TABLE STOP PIECE	2.000
0017	FC-011A	WASHER	2.000
0018	615038001	NUTS(3/8")	2.000
0019	600100200	HSH CAP SCREW(M10X20)	2.000
0020	FL-035	X-AXIS LIMITED SWITCH SEAT	1.000
0021	07600B000	GREASY CUP(PT-1/8")	1.000
0022	600060250	HSH CAP SCREW(M6X25)	3.000
0023	FE-028B	ELEVATING SCREW NUT(IN.)	1.000
0024	FE-027B	ELEVATING SCREW(IN.)	1.000
0025	FE-301	SCREW HOUSING	1.000
0026	600100350	HSH CAP SCREW(M10X35)	2.000
0027	FD-304	TURRET	1.000
0028	FD-022	LOCKING BOLT	4.000

0030	FL-020	SPRING TUBE (Φ25X6)	1.000
0031	FL-019B	SUPPORT SLEEVE	1.000
0032	600100300	HSH CAP SCREW(M10X30)	2.000
0033	FL-322	X-BALL SCREW SEAT	1.000
0034	FL-019A		1.000
0035	FL-020	SPRING TUBE (Φ25X6)	1.000
0036	FL-021E	X-AXIS BALL-SCREW(S.08)(1499	1.000
0037	701062044	BEARING(6204-2RS)	1.000
0038	FL-009C	SPACER	1.000
0039	FC-006B	SCREW BRACKET(R)	1.000
0040	623050320	TAPER PINS(Φ5X32XH4)	4.000
0041	600100350	HSH CAP SCREW(M10X35)	8.000
0042	FC-004	DIAL HOLDER	1.000
0043	FC-003B	DIAL-200 GRADUATION(IN.)	1.000
0044	FC-002	DIAL LOCK NUT.	1.000
0045	640040190	KEY(4X19)	1.000
0046	FL-010	HAND WHEEL	1.000
0047	652002001	SPRING WASHERS(1/2")	1.000
0048	616002001	LUCK NUT(1/2")	1.000
0049	FD-040	PLUG	1.000
0050	653020000	LOCKING WASHER(AW-04)	1.000

TOH-DO
T-AXIS ASSEMBLY
YOUNGJIN MACH IND CO.

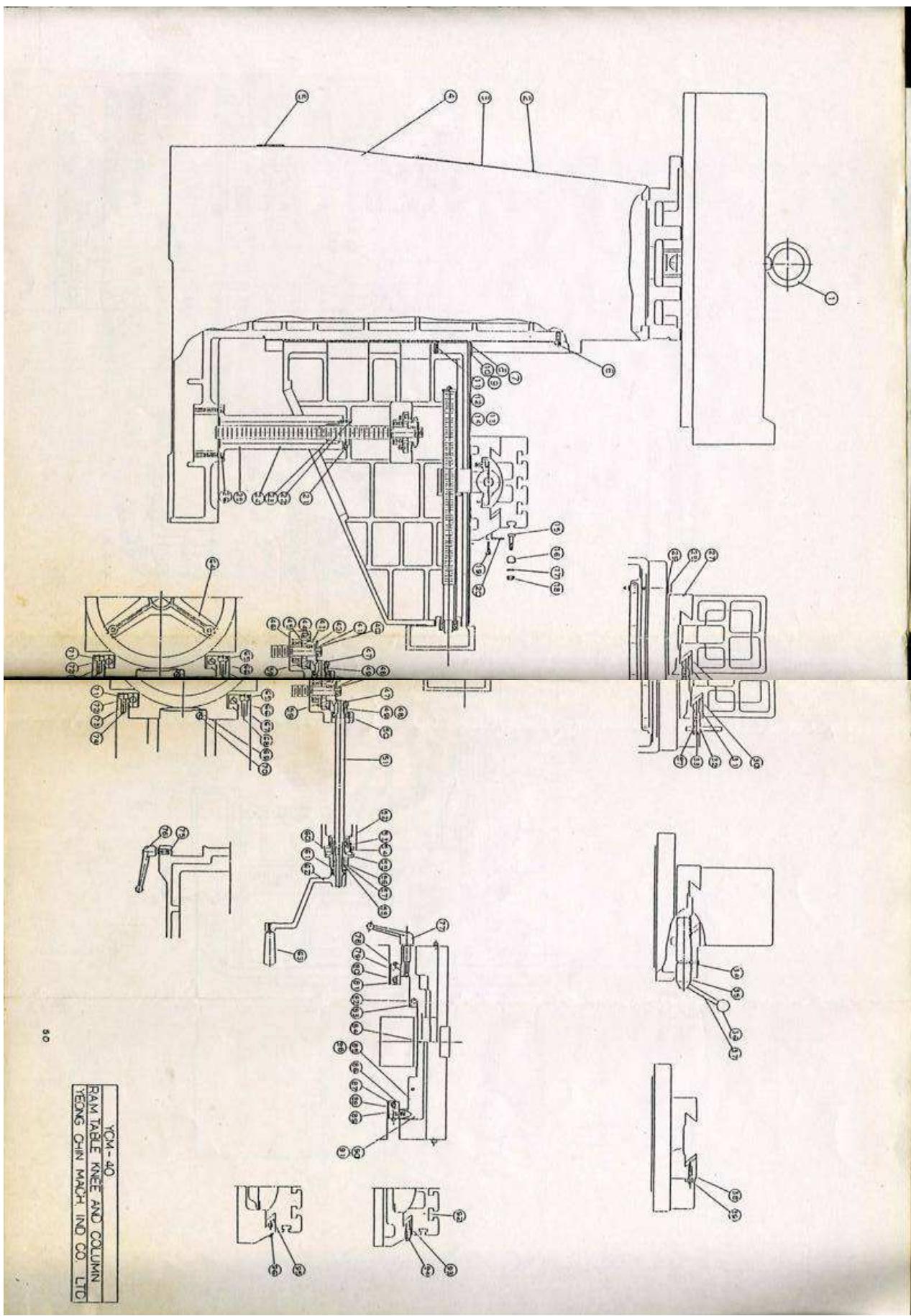


YCM-40
 Y-AXIS ASSEMBLY
 YEONG CHIN MACH. IND.CO.

0001	FL-300A	SADDLE	1.000
0002	831930600	BEARING(9306)	1.000
0003	623050320	TAPER PINS(Φ5X32XM4)	2.000
0004	600100250	HSH CAP SCREW(M10X25)	4.000
0005	FL-301	Y-AXIS MOTOR SEAT	1.000
0006	FL-018	COVER	1.000
0007	617020000	LOCK NUT(M20X1P)	2.000
0008	FL-017B	SPACING RING	1.000
0009	FL-015A	PULLEY COVER	2.000
0010	FL-015	Y-AXIS PULLEY	1.000
0011	600050250	HSH CAP SCREW(M5X25)	2.000
0012	645038358	OIL SEALS(VC38X50X8)	1.000
0013	FL-007	SLEEVE	1.000
0014	FL-010	HAND WHEEL	1.000
0015	640040160	KEY(4M/MX16t)	1.000
0016	FE-300B	KNEE(16")	1.000
0017	600100250	HSH CAP SCREW(M10X25)	1.000
0018	503-03-009	WASHER	1.000
0019	FL-022E	Y-AXIS BALL-SCREW(5.00)	1.000
0021	600100250	HSH CAP SCREW(M10X25)	2.000
0022	600060250	HSH CAP SCREW(M6X25)	4.000
0023	066300075	TIMING BELT(300L075)	1.000
0024	FL-013	FIXER	1.000
0025	FL-302	Y-AXIS MOTOR SEAT COVER	1.000
0026	FL-017	Y-AXIS MOTOR PULLEY ADAPTER	1.000
0027	630040180	PARALLEL KEY(4X4X18)	1.000
0028	FC-003B	DIAL-200 GRADUATION(IN.)	1.000
0029	FC-002	DIAL LOCK NUT	1.000

0030	652002001	SPRING WASHERS(1/2")	1.000
0031	616002001	LUCK NUT(1/2")	1.000
0032	600050160	HSH CAP SCREW(M5X16)	7.000
0033	600050300	HSH CAP SCREW(M5X30)	2.000
0034	FL-017A	Y-AXIS MOTOR PULLEY ADAPTER	1.000
0035	630050500	PARALLEL KEY(5X5X50)	1.000
0036	FL-015	Y-AXIS PULLEY	1.000
0037	FL-015A	PULLEY COVER	2.000
0038	600060250	HSH CAP SCREW(M6X25)	4.000
0040	FL-003	FIXED NUT(SUMMIT)	2.000
0041	FI-040	PLUG	1.000
0042	653020000	LOCKING WASHER(AW-04)	1.000
0043	623050320	TAPER PINS(Φ5X32XH4)	2.000
0044	600100750	HSH CAP SCREW(M10X75)	4.000
0020	FL-325	Y BALL SCREW SEAT	1.000

ITEM-50
DATA TABLET(FREE AND EASY)
TECHNICAL MACH INDUSTRY



0001	FD-004B	HOOK	1.000
0002	605050120	ROUND HEAD SCREWS(M5X12)	6.000
0003	FL-326	COVER	1.000
0004	FD-300B	COLUMN	1.000
0005	FD-021	RAM LOCK STUD	1.000
0006	FE-034	CAP SCREW	1.000
0007	FD-312	PLATE	1.000
0008	FD-312A	WIPER PLATE	1.000
0009	FD-318	WIPER	1.000
0010	FD-319	WIPER	1.000
0011	FE-034	CAP SCREW	1.000
0012	FL-328	CHIP GUARD(16")	1.000
0013	FL-330	CHIP GUARD(16")	1.000
0014	FL-329	CHIP GUARD(16")	1.000
0015	FC-010	STOP PIECE T-BOLT	2.000
0016	FC-011	TABLE STOP PIECE	2.000
0017	FC-011A	WASHER	2.000
0018	615038001	NUTS(3/8")	2.000
0019	600100200	HSH CAP SCREW(M10X20)	2.000
0020	FL-035	X-AXIS LIMITED SWITCH SEAT	1.000
0021	076008000	GREASY CUP(PT-1/8")	1.000
0022	600060250	HSH CAP SCREW(M6X25)	3.000
0023	FE-028B	ELEVATING SCREW NUT(IN.)	1.000
0024	FE-027B	ELEVATING SCREW(IN.)	1.000
0025	FE-301	SCREW HOUSING	1.000
0026	600100350	HSH CAP SCREW(M10X35)	2.000
0027	FD-304	TURRET	1.000
0028	FD-022	LOCKING BOLT	4.000

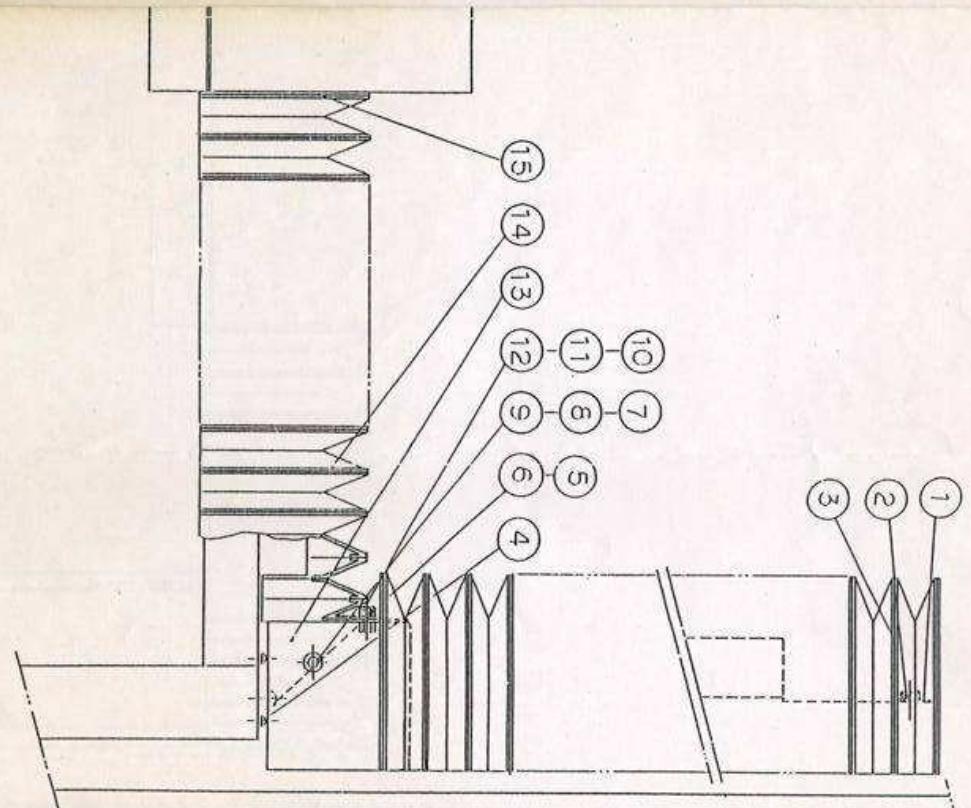
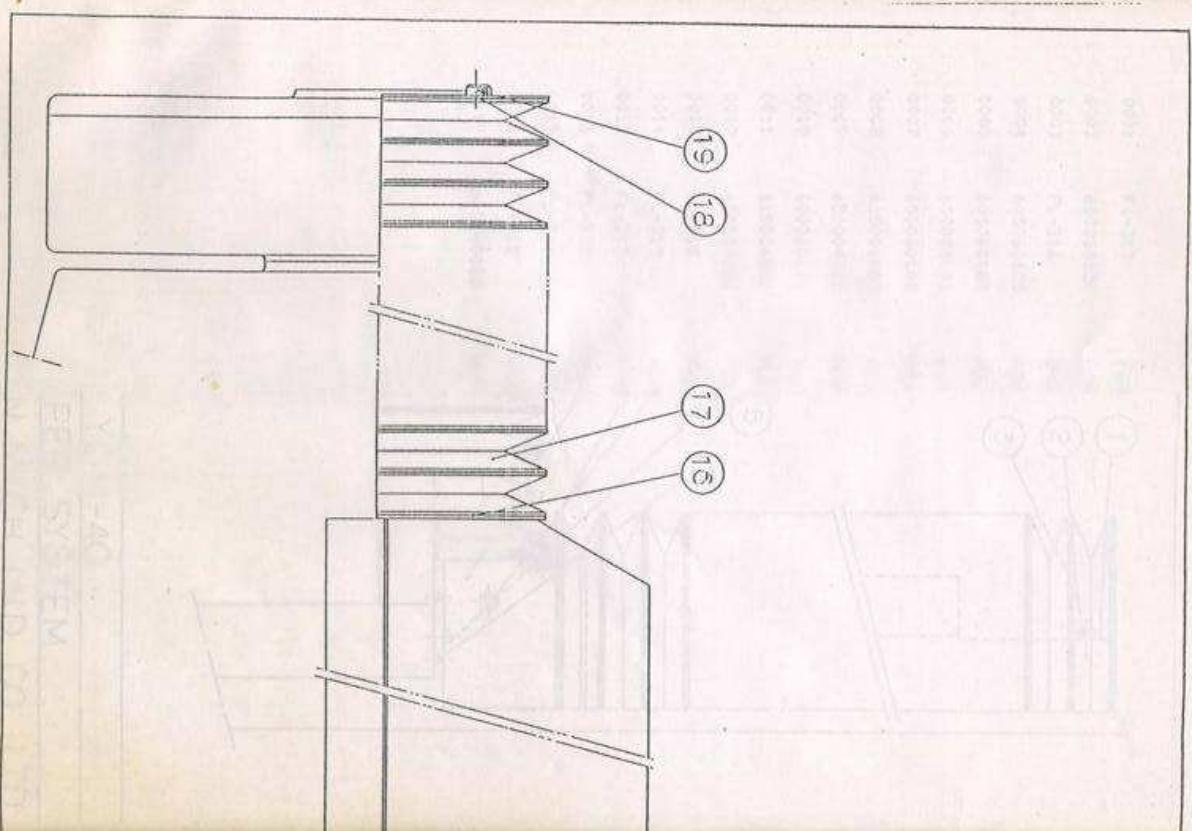
0029	FD-008	SPRING WASHER	4.000
0030	FD-307	RAM GUIDE	1.000
0031	FD-309A	LOCK PLUNGER	2.000
0032	FD-320	FIXED SCREW HANDLE	2.000
0033	604060060	SET SCREW(M6X6)	2.000
0034	FD-014	RAM PINION SET SCREW	1.000
0035	FD-017	RAM PINION	1.000
0036	AA-039	BALL GRIP(1&1/8"X3/8")	1.000
0037	FD-016	RAM PINION HANDLE	1.000
0038	FD-310	FIXED SCREW(M10X60)	2.000
0039	615010000	NUTS(M10)	2.000
0040	615002003	NUTS(1/2")	1.000
0041	FE-023	WASHER(4.5H/M)	1.000
0042	630050200	PARALLEL KEY(5X5X20)	1.000
0043	FE-024	BEVEL GEAR	1.000
0044	600100250	HSH CAP SCREW(M10X25)	4.000
0045	FE-025A	SLEEVE	1.000
0046	711033058	BEARING(3305)	1.000
0047	FE-015	BEVEL PINION	1.000
0048	604060060	SET SCREW(M6X6)	1.000
0049	630040160	PARALLEL KEY(4X4X18)	1.000
0050	701062042	BEARING(6204-2Z)	1.000
0051	FE-305B	LEAD SCREW(16")	1.000
0052	FE-302	BEARING HOUSING	1.000
0053	701062042	BEARING(6204-2Z)	1.000
0054	600060160	HSH CAP SCREW(M6X16)	3.000
0055	FE-019B	DIAL WITH 100 GRADUATION(IN.)	1.000
0056	FC-002	DIAL LOCK NUT	1.000

0017	062040000	ALUMINUM PIPE(Φ4X315CM)	1.000
0018	030014000	CLAMP(PZ-14)	1.000
0018	600050200	HSH CAP SCREW(M5X20)	2.000
0018	600060200	HSH CAP SCREW(M6X20)	6.000
0018	601040080	HSH CAP SCREW(M4X8)	1.000

YCM-40
ING SYSTEM
L MACH IND CO LTD

0057	630040180	PARALLEL KEY(4X4X18)	1.000
0058	FE-018	DIAL HOLDER	1.000
0059	FE-026	BEARING COVER	1.000
0060	FE-303B	BEARING RETAINR RING(IN.)	1.000
0061	FE-020	GEAR SHAFT CLUTCH INSERT	1.000
0062	FE-310	HANDLE	1.000
0063	FC-316	HANDLE	1.000
0064	FD-023	SPIDER	1.000
0065	600140250	HSH CAP SCREW(M14X25)	5.000
0066	FD-306	COLUMN GUIDE(R.)	1.000
0067	AC-090	GIB ADJUSTING SCREW	2.000
0068	FD-302	COLUMN GIB	1.000
0069	FE-307	KNEE GIB	1.000
0070	AC-090	GIB ADJUSTING SCREW	2.000
0071	600140250	HSH CAP SCREW(M14X25)	5.000
0072	FD-305	COLUMN GUIDE(L.)	1.000
0073	AC-090	GIB ADJUSTING SCREW	2.000
0074	FD-302	COLUMN GIB	1.000
0075	FE-315A	PLUNGER	2.000
0076	FE-311	FIXED HANDLE	2.000
0077	FC-314	HANDLE	1.000
0078	FE-315A	PLUNGER	1.000
0079	FL-306	SADDLE GUIDE(L.)	1.000
0080	AC-090	GIB ADJUSTING SCREW	2.000
0081	FL-303	SADDLE GIB	1.000
0082	AC-090	GIB ADJUSTING SCREW	2.000
0083	FL-307	SADDLE KNEE GIB	1.000
0084	605360581	ROUND HEAD SCREWS(3/16X5/8)	6.000

0085	FC-309	KNEE WIPER	2.000
0086	FL-303	SADDLE GIB	1.000
0087	AC-090	GIB ADJUSTING SCREW	2.000
0088	FL-305	SADDLE GUIDE(R.)	1.000
0089	600120250	HSH CAP SCREW(M12X25)	6.000
0090	FC-315A	PLATE(FRONT)	1.000
0091	FC-315B	PLATE(BACK)	1.000
0092	FC-028	T-SLOT PLUG	6.000
0093	FC-019	TAB LOCK PLUNGER	2.000
0094	FL-004	FIXED BOLT	2.000
0095	FL-304	SADDLE TABLE GIB(TABLE)	1.000
0096	AC-090	GIB ADJUSTING SCREW	2.000
0097	FD-309	TABLE FIXED SCREW	2.000
0098	FC-308	KNEE WIPER	2.000
0099	085100001	OIL PLUG(1"PT)	1.000
0100	605360381	ROUND HEAD SCREWS(3/16X3/8)	6.000
0101	FD-031	STRAINER CAN	2.000
0102	FD-030	STRAINER	2.000
0103	085002001	OIL PLUG(1/2"-14PT)	2.000
0104	653020000	LOCKING WASHER(AW-04)	1.000



YCM-40
WIPER SYSTEM
YEONG CHIN MACH. IND. CO. LTD.

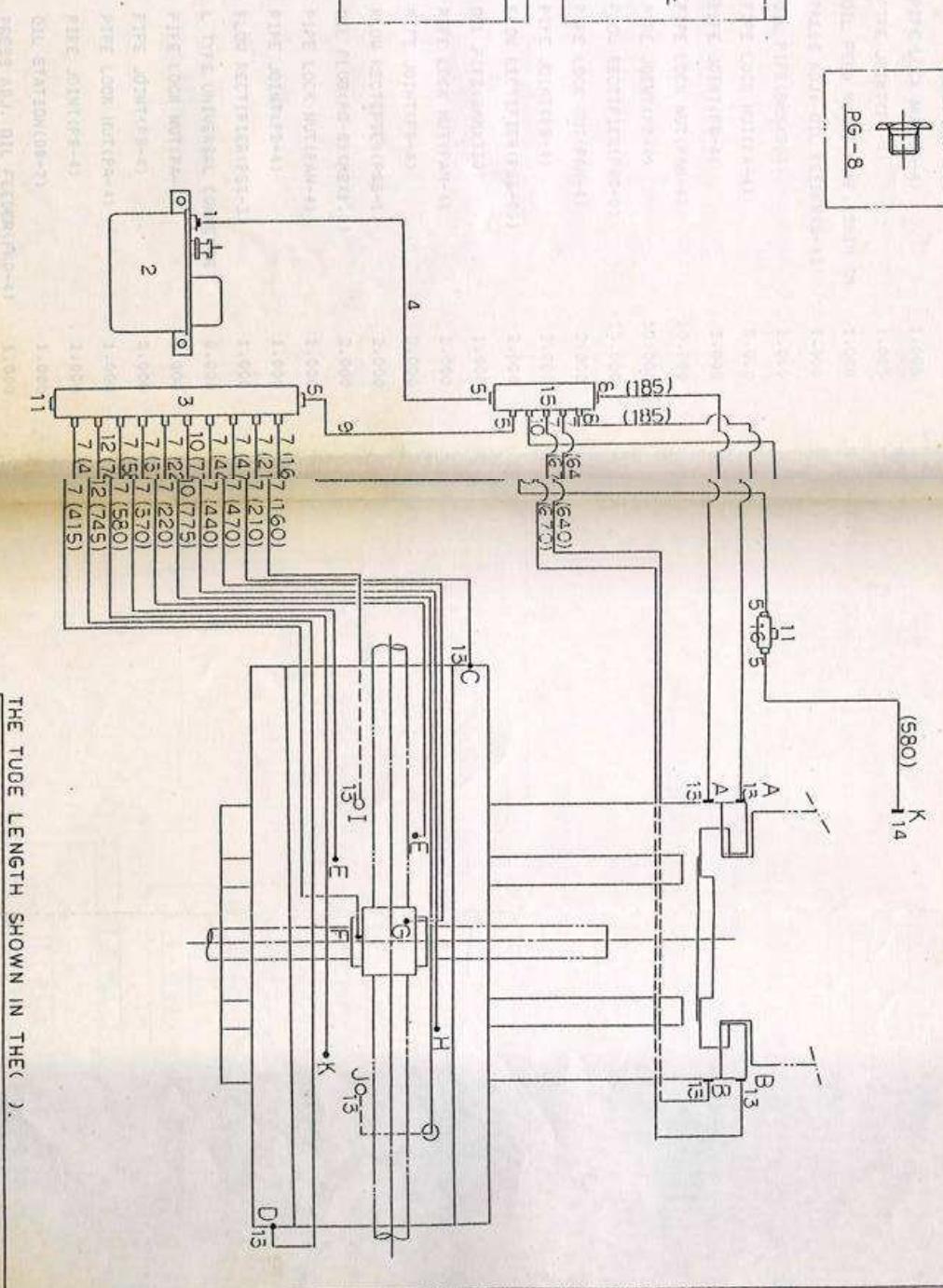
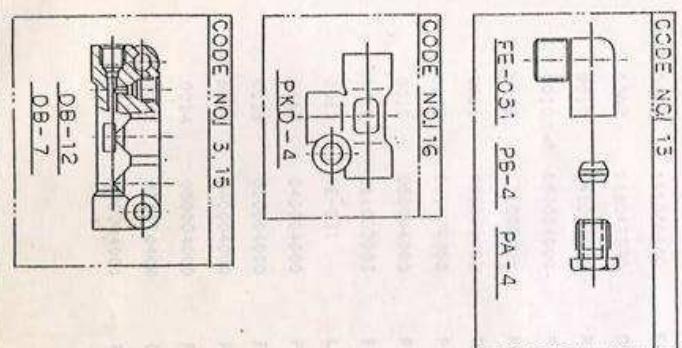
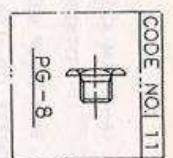
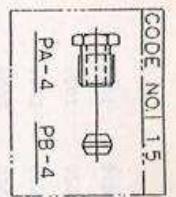
0001	FL-317	FRAME	1.000
0002	600060120	HSH CAP SCREW(M6X12)	3.000
0003	FL-316	SNALE TUBE	1.000
0004	605060120	ROUND HEAD SCREWS(M6X12)	2.000
0005	605060160	ROUND HEAD SCREWS(M6X16)	2.000
0006	650004001	PLAIN WASHERS(1/4")	6.000
0007	600060100	HSH CAP SCREW(M6X10)	2.000
0008	615006000	NUTS(M6)	2.000
0009	650004001	PLAIN WASHERS(1/4")	4.000
0010	600060100	HSH CAP SCREW(M6X10)	2.000
0011	615006000	NUTS(M6)	2.000
0012	650004001	PLAIN WASHERS(1/4")	4.000
0013	FL-318	FRAME	1.000
0014	FL-315	SNALE TUBE	1.000
0015	FL-313	FRAME	1.000
0016	FL-313	FRAME	1.000
0017	FL-314	SNALE TUBE	1.000
0018	FL-312	FRAME	1.000
0019	600060080	HSH CAP SCREW(M6X8)	2.000

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YCM-40

CATION SYSTEM

MACH IND CO LTD

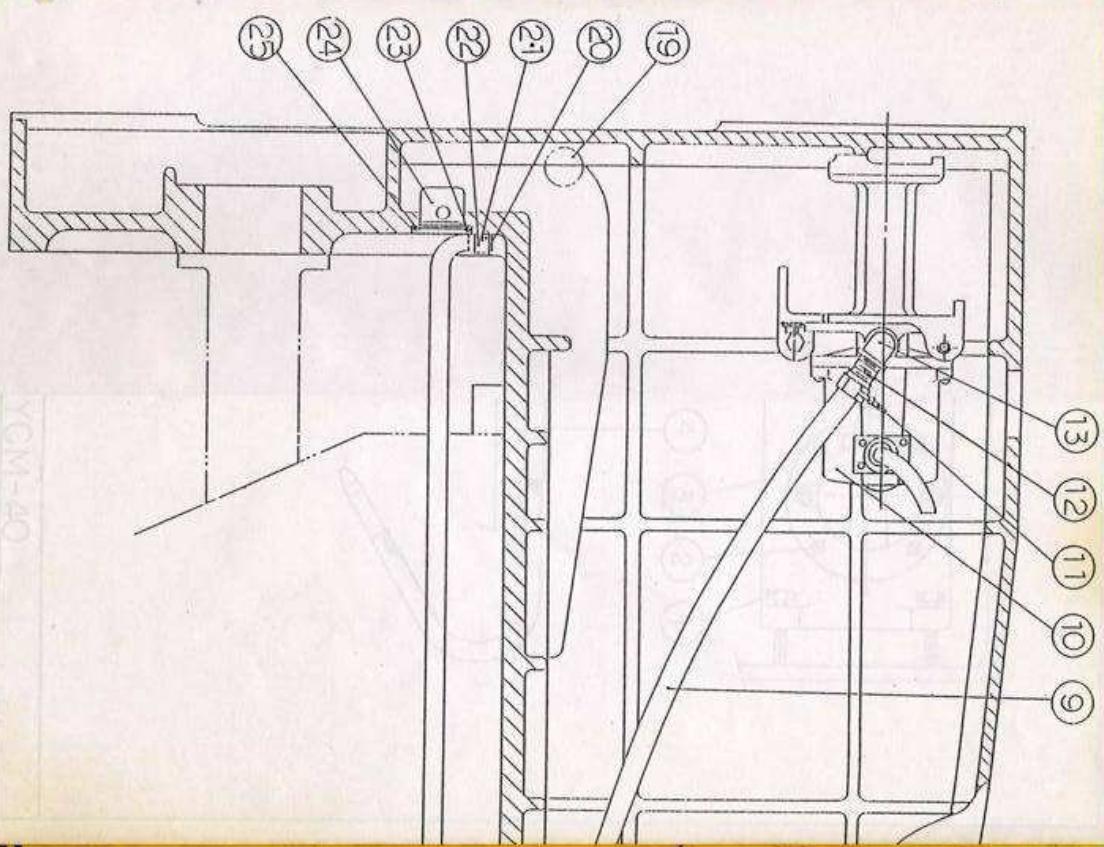


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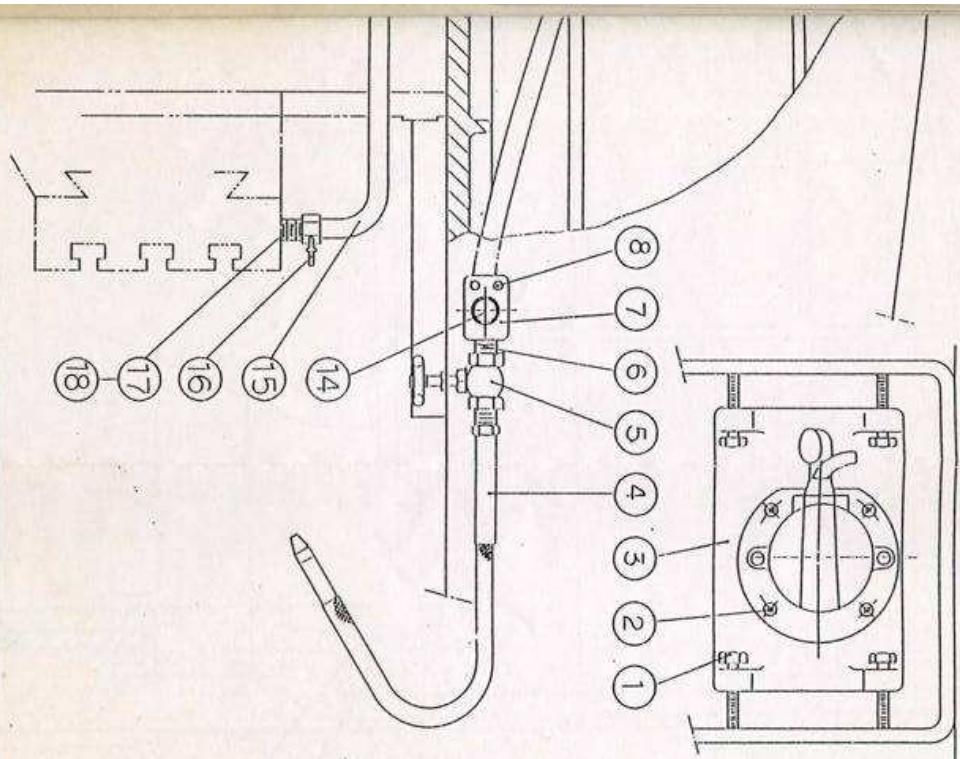
YCM-40

EDUCATION SYSTEM
YEONG CHIN MACH. IND.CO. LTD.

0001	040004000	PIPE LOCK NUT(PA-4)	1.000
0001	050004000	PIPE JOINT(PB-4)	1.000
0002	012060150	OIL FEED MOTOR PUMP,15MIN SM	1.000
0003	070012002	PRESS ADJ. OIL FEEDER(D-12)	1.000
0004	045040200	OIL PIPE(8MMX200)	1.000
0005	040004000	PIPE LOCK NUT(PA-4)	5.000
0005	050004000	PIPE JOINT(PB-4)	5.000
0007	041004000	PIPE LOCK NUT(PAN-4)	10.000
0007	050004000	PIPE JOINT(PB-4)	10.000
0007	111001000	FLOW RECTIFIER(PSS-0)	10.000
0008	041004000	PIPE LOCK NUT(PAN-4)	2.000
0008	050004000	PIPE JOINT(PB-4)	2.000
0008	111000000	FLOW RECTIFIER(PSS-00)	2.000
0009	045040330	OIL PIPE(8MMX330)	1.000
0010	041004000	PIPE LOCK NUT(PAN-4)	2.000
0010	050004000	PIPE JOINT(PB-4)	2.000
0010	111002000	FLOW RECTIFIER(PSS-1)	2.000
0011	085000082	OIL PLUG(PG-8)(M8X1.0)	2.000
0012	041004000	PIPE LOCK NUT(PAN-4)	1.000
0012	050004000	PIPE JOINT(PB-4)	1.000
0012	111002003	FLOW RECTIFIER(PSS-3)	1.000
0013	FE-031	L TYPE UNIVERSAL CONNECTOR	8.000
0013	040004000	PIPE LOCK NUT(PA-4)	8.000
0013	050004000	PIPE JOINT(PB-4)	8.000
0014	040004000	PIPE LOCK NUT(PA-4)	1.000
0014	050004000	PIPE JOINT(PB-4)	1.000
0015	071070408	OIL STATION(DB-7)	1.000
0016	070004001	PRESS ADJ. OIL FEEDER(PKD-4)	1.000



YCM-40
MAGNETIC SYSTEM
MANUFACTURING CO., LTD.



YCM-40

COOLING SYSTEM

YEONG CHIN MACH. IND. CO. LTD.

