Barudan

BEAT-UF

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

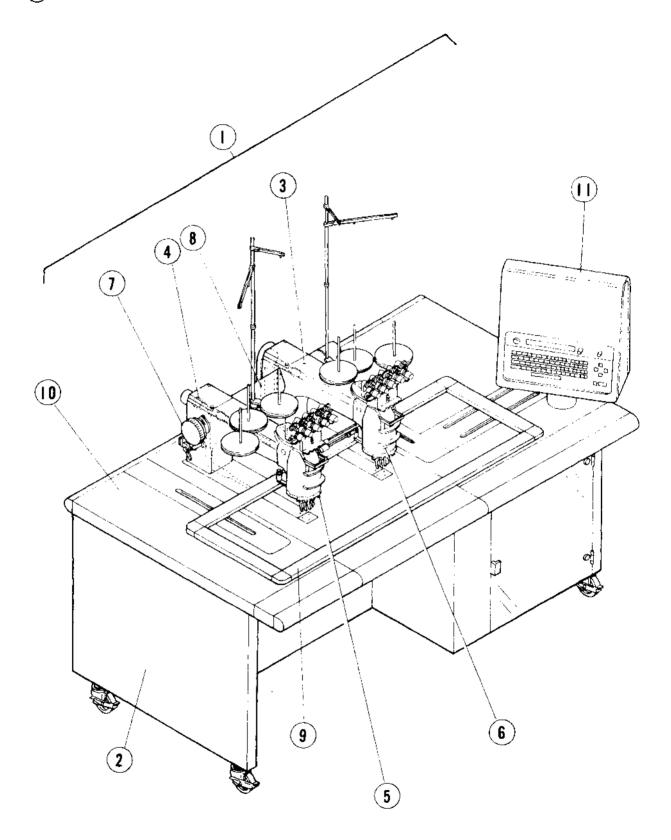
PARTS BOOK

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3 I B 5 A	9	3 0	4767C	12	18	4851A	10	4
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3215A	8	16	4779H	12	25	5 1 1 8 C	7	2
3218A	8	۱6	4781A	11	5	5 I 2 O A	4	14
3219A	8	16	4782A	1 +	15	5121 A	8	3 1
3 2 2 5 F	8	7	4783A	12	1 7	5 1 2 4 C	8	30
3226F	8	10	4 7 E 4 A	1.1	15	5 I 4 I A	7	ı
32310	8	1	4 7E 5 A	1 1	13	5 9 A	۱4	9
3251F	8	[1]	4 7 E 6 A] }	15	5 1 9 2 C	8	26
3252F	8	15	4811A	1.1	24	5 I 9 9 A	8	2
3 2 5 9 A	8	6	4811A	1.1	3 3	5210A	14	1
3338F	6	3 5	4812A	12	2 0	5 2 2 0 A	14	21
3339F	5	25	4814A	10		5 3 4 I A	6	4 6
3 3 4 1 A	5	2 3	4815A	10	12	5 3 4 2 A	6	4 3
3411A	9	10	4816A	10	13	5 3 4 3 A	6	4 5
3415A	9	8	4818A	10	! 3	5 3 4 4 A	6	4 2

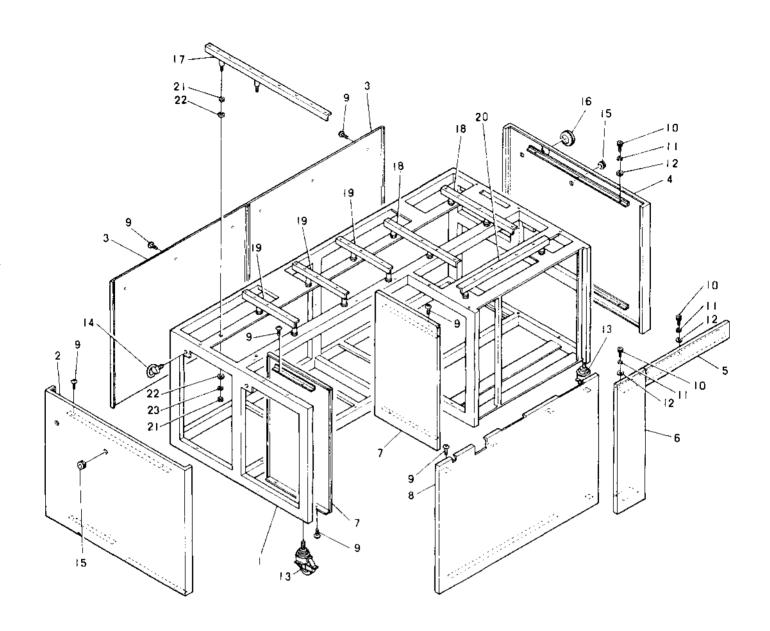
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7 1 4 5 A	13	10						
7 4 8 A	13	12						
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9 0 0	12	24						
91002	8	8						
9 0 0 3	9	20						
9 1 0 0 6	1.1	1						
91006	12	į 1						
91007	8	25						
91011	6	22						
91121	6	24						
91122	6	2 5						
91123	6	23						
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9 1 2 2 5	13	4						
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MACHINE LAYOUT



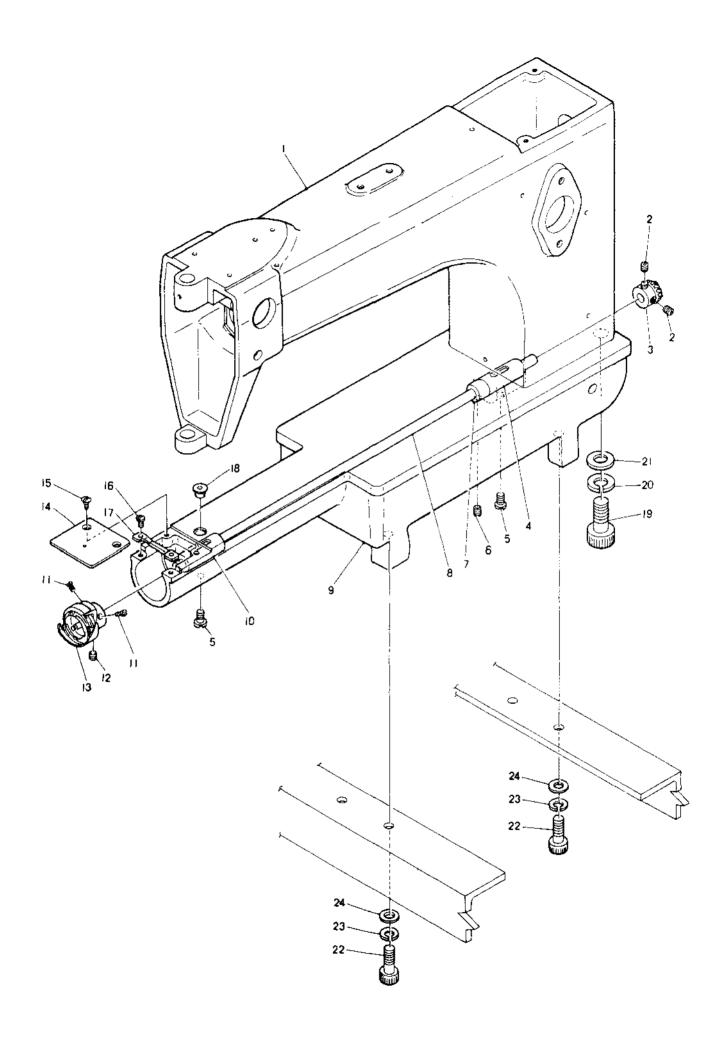
BEAT-UF MACHINE LAYOUT

PAGE No.	No. NA	TEM
AYOUT ······ 1	Фмасн	
STAND FRAME2	②MACH	
AD BASE3	3SEWIN	
ERTICAL SHAFT OF SEWING HEAD4	TOP A	
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SYSTEM14	⊕CONTE	



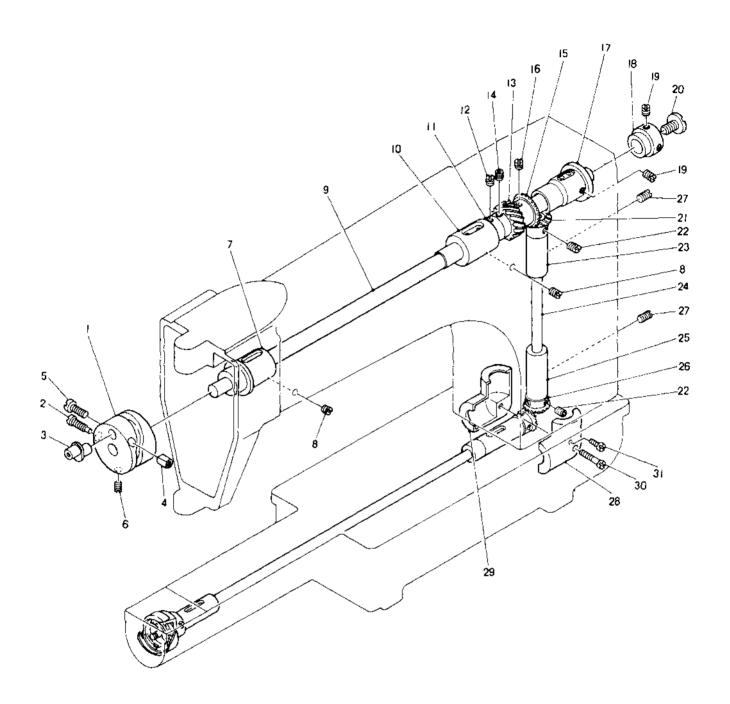
2 MACHINE STAND FRAME

No.	Parts No.	Description
1	1125A···································	·STAND FRAME ASSY (BEAT-102, 300 × 450) ·STAND FRAME ASSY (BEAT-102, 300 × 300) ·STAND FRAME ASSY (BEAT-101, 300 × 450) STAND FRAME ASSY (BEAT-101, 300 × 300)
2	1163A	STAND FRAME SIDE COVER NO. 3
3		STAND FRAME SIDE COVER NO.2
		STAND FRAME SIDE COVER NO.8
4		STAND FRAME SIDE COVER NO.1
5		STAND FRAME SIDE COVER NO.4
6		STAND FRAME SIDE COVER NO.5
7		STAND FRAME SIDE COVER NO.6
8		STAND FRAME SIDE COVER NO.7
9		·SCREW (M6×1)
10		·BOLT (M6×1)
11 12 13 13 14 15 16 17 18 19	91298 91297 1285A 1282A	PLUG HOLE (\$\phi 30) PLUG HOLE (\$\phi 42) TABLE BASE (650L) TABLE BASE (405L) TABLE BASE (315L)
21 22 23		NUT (W3/8) PLATE WASHER SPRING WASHER



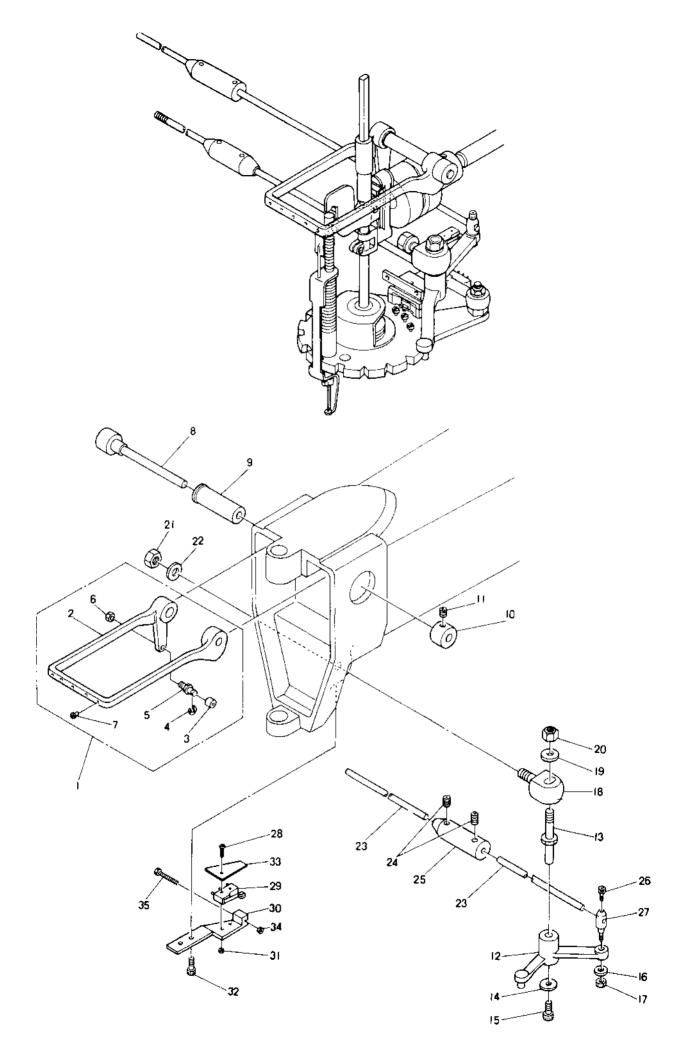
3 SEWING HEAD BASE

No.	Parts No.	Description
1	2111C	SEWING HEAD
2		GRUB SCREW (SM1/4 40)
3	2248F	BEVEL GEAR (HOOK SHAFT)
4	2222F	·HOOK SHAFT BUSH (REAR)
5		-SCREW (SM15/64 28)
6	*************	GRUB SCREW (SM15/64 28)
7	2229F	
8	2221 A	
9		-SEWING HEAD BASE PLATE
10	2223F	BUSH (HOOK SHAFT)
11		··SCREW
12		-GRUB SCREW
13		SEWING HOOK AND BASE
14	2513A	·NEEDLE PLATE
15		NEEDLE PLATE SCREW (SM11/64 40)
16		SCREW FOR HOOK BASE RETAINING FINGER
17		HOOK BASE RETAINING FINGER
18		DUST PROOF OILER
19		·BOLT (M12×1.75)
20	1,1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SPRING WASHER
21		PLATE WASHER
22		·BOLT (M8 × 1.25)
23		SPRING WASHER
24		·PLATE WASHER



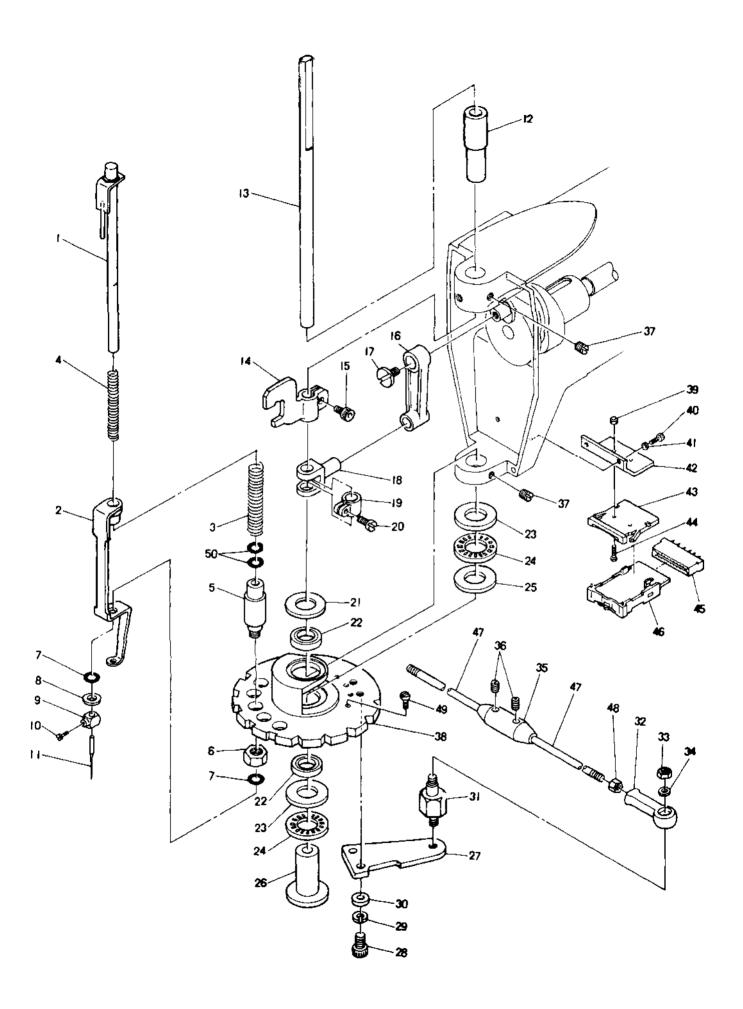
TOP AND VERTICAL SHAFT OF SEWING HEAD

No.	Parts No.	Description
1	2341F	··TAKE UP LEVER CAM
2	2342F	-LOCATING SCREW
3	2343F	··CRANK PIN
4	2344F	RETAINING PIN
5	***************************************	SCREW FOR RETAINING PIN (SM3/16 32)
6	************	∵GRUB SCREW (M6×1)
7	22!4F	FRONT ARM SHAFT BUSH
8	************	GRUB SCREW (SM15/64 28)
9	2211F	
10	2216F	ARM SHAFT CENTRE BUSH
11	2218F	·COLLAR
12		GRUB SCREW (SM15/64 28)
13	2212F	
14		GRUB SCREW (M6×1)
15		·BEVEL GEAR (LARGE)
16		GRUB SCREW (SM1/4 40)
17	2215F	
18	2219F	
19		GRUB SCREW (SM15/64 28)
20	2245F	REAR LOCKING SCREW
21	2246F	·BEVEL GEAR (SMALL)
22		GRUB SCREW (SM1/4 40)
23	2224F	·VERTICAL SHAFT BUSH (UPPER)
24	2225F	·VERTICAL SHAFT
25	2223F	
26		BEVEL GEAR (VERTICAL SHAFT)
27		-GRUB SCREW (SM15/64 28)
28		·GREASE COVER (RHS)
29		GREASE COVER (LHS)
30	***************************************	SCREW (SM9/32-28)
31		·SCREW (SM15/64 28)



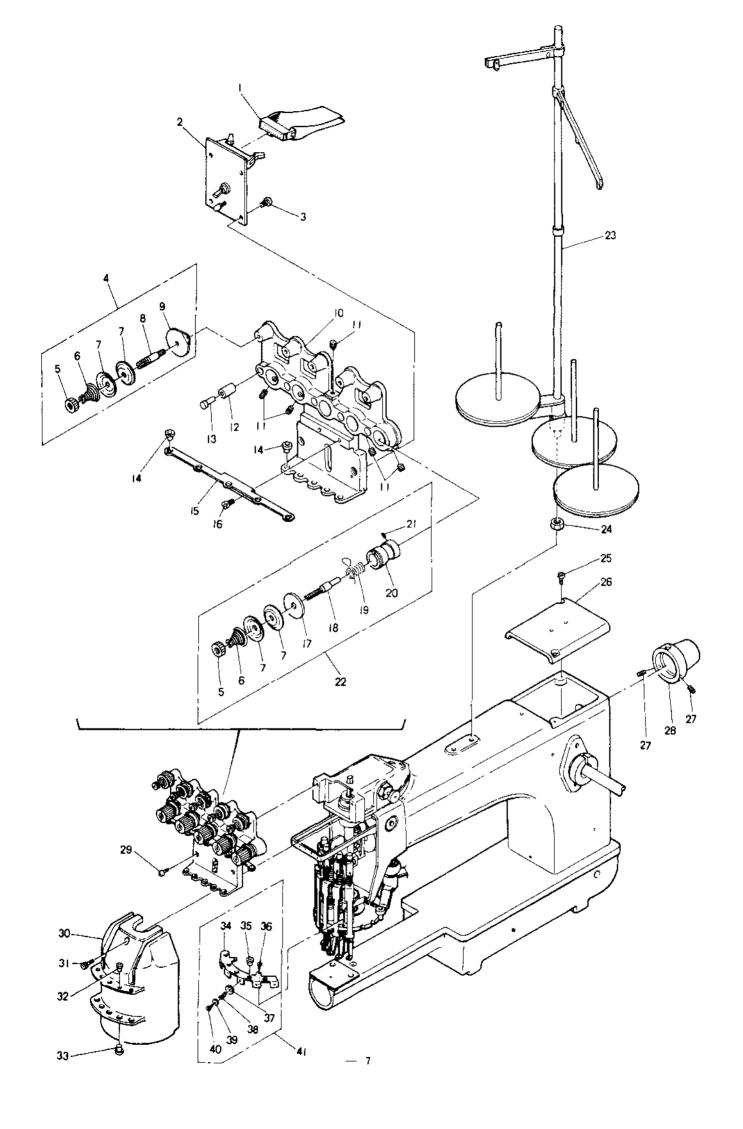
(5)-1) NEEDLE BAR/TAKE UP LEVER MECHANISM

No.	Parts No.	Description
1 2 3	2349F 2353F	··ROLLER
4 5 6 7	2358F	··STUD··NUT (SM7/32 32)··CERAMIC THREAD GUIDE
8 9		TAKE UP LEVER SHAFT TAKE UP SPINDLE BUSH
10 11	2355F	··COLLAR ··GRUB SCREW(SM1/4 40)
12 13 14		··THREADED STUD ··PLATE WASHER
15 16 17	,	··SOCKET SCREW (M5×0.8) ··PLATE WASHER ··NUT (M4×0.7)
18 19 20	,,	··LOCK LEVER BRACKET ··PLATE WASHER ··NUT (M8×1.25)
21 22		··NUT (M10×1.5) ··WASHER
23 24		GRUB SCREW (M5×0.8)
25 26 27	***************************************	LOCK BAR HAND GRIPBOLT (M4×0.7)LOCK BAR POSITIONING CLAMP
28 29		··SCREW (M2×0.4)
30	5346A	··LIMIT SWITCH BASE
31 32 33 34	5347A ······	··NUT (M2×0.4) ··BOLT (M4×0.7) ··LIMIT SWITCH PLATE ··NUT (M4×0.7)
35	***************************************	BOLT (M4 × 0.7)



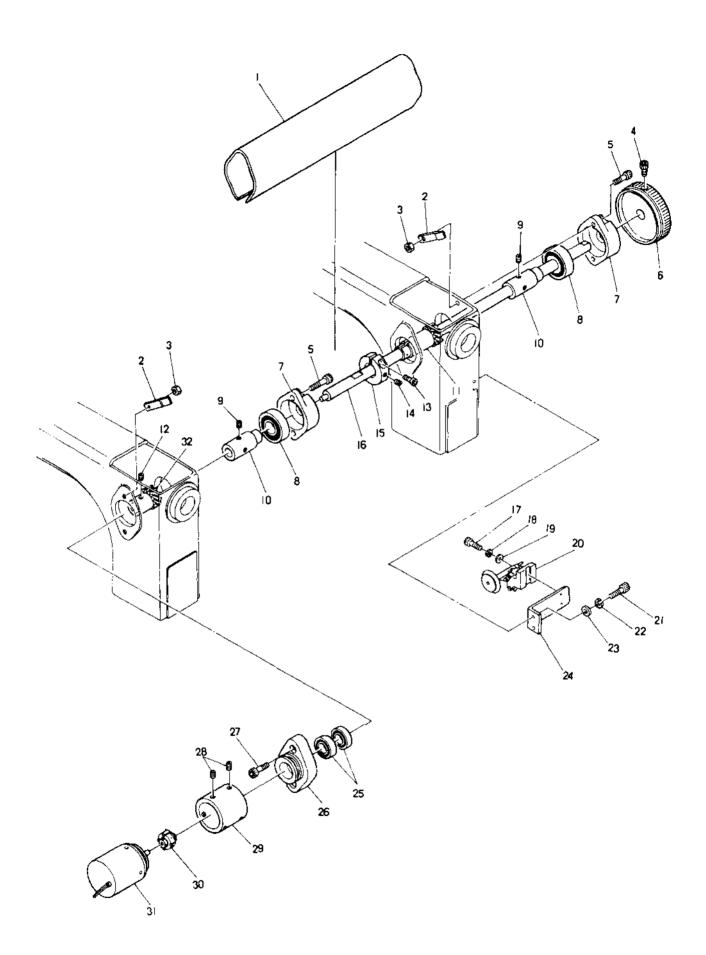
⑤-②NEEDLE BAR/TAKE UP LEVER MECHANISM

No. 1 2 3 4 5 6 7 8 9 10	Parts No. Description 2301F NEEDLE BAR ASSY 2302F PRESSER FOOT 2321F NEEDLE BAR SPRING (NARROW) 2318F NEEDLE BAR SPRING (WIDE) 2313F THREADED BUSH (TURRET ASSY) 2397F HEXAGONAL NUT (M10×1.5) 2391F NYLON WASHER (THIN) 2393F NYLON BUSH (RUBBER O-RING) 2323F NEEDLE CLAMP 2324F NEEDLE CLAMP SCREW (SM9/64 40)
11 12 13 14 15 16 17 18 19 20	2325F
21 22 23 24 25 26 27 28 29 30	2312F THRUST RACE WASHER 91011 BEARING SPACER SSA-2015F 91123 THRUST RACE WASHER GS-1528 91121 THRUST RACE NTB-1528 91122 THRUST RACE WASHER AS-1528 2333F BEARING SHAFT 2335F TURRET POSITION BRACKET ALAN SCREW FOR TURRET POSITION BRACKET SPRING WASHER PLATE WASHER
31 32 33 34 35 36 37 38 39 40	2336F PIVOT CONNECTING STUD 91203 PIVOT COUPLING (RD 4-020-R/L)NUT (M4×0.7)PLATE WASHER 3338F COLOUR CHANGE ROD HAND GRIPGRUB SCREW (M5×0.8)GRUB SCREW (M15/64 28) 2311A NEEDLE BAR TURRET PLATENUT (M3×0.5)BOLT (M4×0.7)
41 42 43 44 45 46 47 48 49 50	



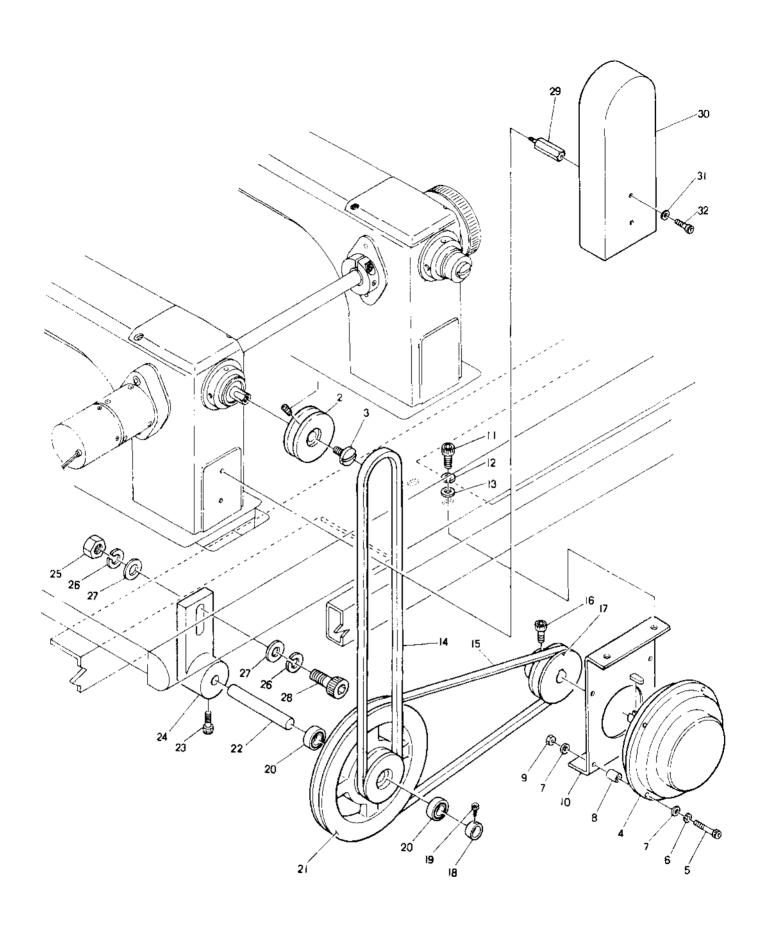
THREAD GUIDE MECHANISM

No.	Parts No.	Description
1 2 3	5118C	··HEAD PCB CABLE ··HEAD BREAK PCB ··SCREW FOR THREAD BREAK PCB (M3×0.5)
4 5	2471F	UPPER TENSION UNIT COMPLETE ADJUSTING NUT UPPER AND LOWER
6 7	2425F	THREAD TENSION SPRING THREAD TENSION DISCS
8 9	2422F	··THREAD TENSION POST (UPPER) ··TENSION DISC PLASTIC INSULATOR (UPPER)
10		THREAD TENSION ASSY BRACKET
11 12	2432F	∵GRUB SCREW (M5×0.8) ∵INSULATOR
13		STOP MOTION CONTACT
14		THREAD GUIDE (CERAMIC)
15		TOP THREAD GUIDE BAR
16 17		··SCREW (SM9/64-40) ··TENSION DISC PLASTIC INSULATOR (LOWER)
18		THREAD TENSION POST (LOWER)
19	2481F	
20	2477F	TENSION SPRING HOLDER
21		GRUB SCREW (SM9/64 40)
22		LOWER TENSION UNIT COMPLETE
23	7101A·····	··IRREAD STAND ··SENTER ROD
		SINGLE THREAD GUIDE
		TWIN THREAD GUIDE
		-SINGLE CONE STAND
		TWIN CONE STAND
24 25		·NUT (M8×1.25) ·SCREW (SM3/16-28)
26		ARM SHAFT GEAR COVER
27		GRUB SCREW (M6×1)
28		REAR BEARING COVER
29		SCREW (M4×0.7)
30		SEWING HEAD COVER
31		·ALAN SCREW (M5×0.8)
32 33		-CERAMIC GUIDE (UPPER) -CERAMIC GUIDE (LOWER)
34		THREAD END TRAP BASE PLATE
35		·THREAD GUIDE (CERAMIC)
36	• • • • • • • • • • • • • • • • • • • •	SCREW FOR TRAP DISC (M3×0.5)
37		·THREAD TRAP DISC
38 39	2524F···································	
40	2525F······	
41		THREAD END TRAP UNIT ASSY



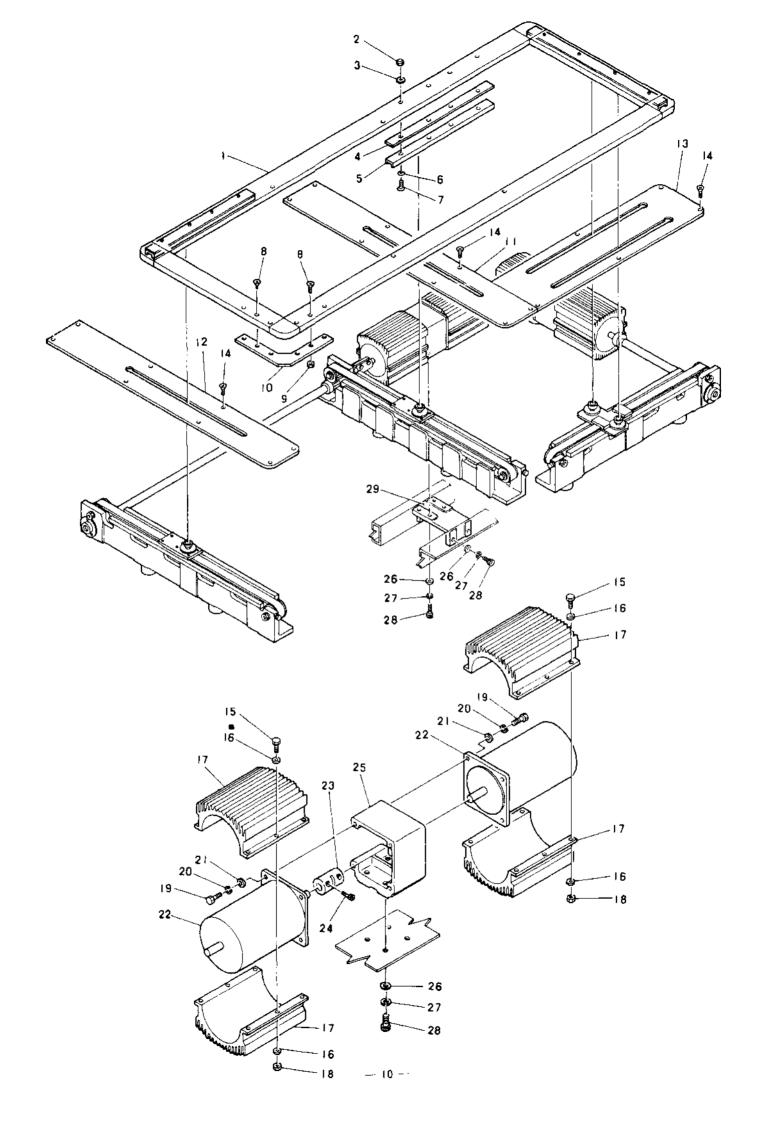
TGANG SHAFT MECHANISM

No.	Parts No.	Description
1 2 3 4 5	***************************************	
6	3259A	
7	3225F	
8	91002	
9		GRUB SCREW (M6×1)
10	3226F	SHAFT COLLAR
11 12		GRUB SCREW (M6×1)
13		BOLT (M6×1)
14 15		·GRUB SCREW (M6×1) ·HELICAL GEAR CLAMP
16		CONNECTING SHAFT (BEAT-102, 300×300)
16'		CONNECTING SHAFT (BEAT-101)
16"		CONNECTING SHAFT (BEAT-102, 300×450)
17		BOLT (M6×1)
18		SPRING WASHER
19		PLATE WASHER
20	7136A······	BOBBIN WINDER ASSY
21		BOLT (M5×0.8)
22		SPRING WASHER
23		PLATE WASHER
24		BOBBIN WINDER BRACKET
25	91007	
26 27		POSITION CODER HOLDER BOLT (M6×1)
28		GRUB SCREW (M4×0.7)
29		POSITION CODER COLLAR
30	5124C	
31	5121A······	



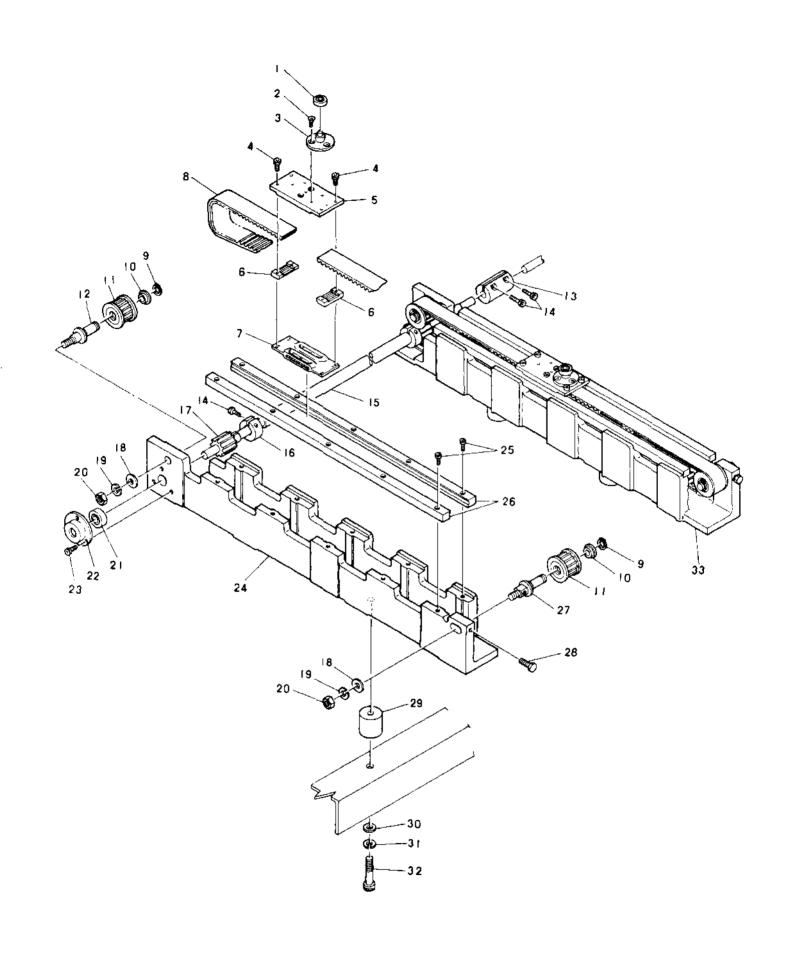
8 DRIVE MECHANISM

No.	Parts No.	Description
1 2 3 4 5 6 7 8 9	2244A 2245F 3113A 3415A	REAR LOCKING SCREW DC MOTOR BOLT (M5 × 0.8) SPRING WASHER PLATE WASHER SPACER NUT (M5 × 0.8)
11 12 13 14 15 16 17 18 19 20	92012 92011	·V BELT (M37) ·BOLT (M6×1) ·MOTOR PULLY (A 2 ¹ ½) ·COLLAR ·BOLT (M6×1)
21 22 23 24 25 26 27 28 29 30	3122A······	NUT (M12×1.75) SPRING WASHER PLATE WASHER BOLT (M12×1.75) BELT COVER STAY
31 32		·PLATE WASHER ·BOLT (M5×0.8)



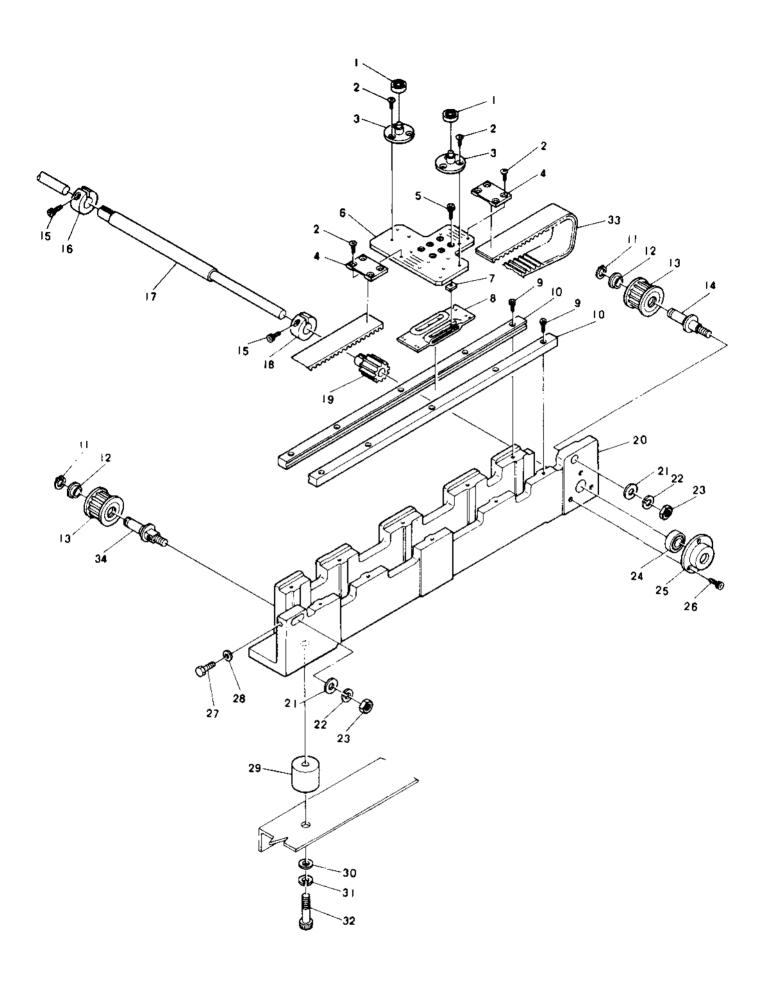
9-1 PANTOGRAPH DRIVE MECHANISM

No.	Parts No.	Description
1	4510A····································	-PANTOGRAPH ASSY (BEAT-102, 300×450) -PANTOGRAPH ASSY (BEAT-101, 300×300) -PANTOGRAPH ASSY (BEAT-102, 300×300) -PANTOGRAPH ASSY (BEAT-101, 300×450)
2	************	\cdot NUT (M4 \times 0.7)
3		PLATE WASHER
4	4851 A	·SPACER
5	4835A	•
	4836A	·RAIL (V)
6	****************	
7		SCREW (M4×0.7)
8		SCREW (M4×0.7)
9		NUT (M4×0.7)
10	4592A	·CORNER PLATE
11 12 13	4814A···································	• •
		·V RAIL COVER (450L)
14	***********	SCREW (M4×0.7)
15	***************************************	BOLT (M3×0.5)
16		PLATE WASHER
17		PULSE MOTOR COVER
18		·NUT (M3×0.5)
19		BOLT (M5×0.8)
20		SPRING WASHER
21		PLATE WASHER
22	4711H	PULSE MOTOR
23	4717H	COUPLING
24		·BOLT (M5×0.8)
25		PULSE MOTOR BRACKET
26		PLATE WASHER
27		SPRING WASHER
28		BOLT (M6×1)
29	4714A·····	PULSE MOTOR BASE



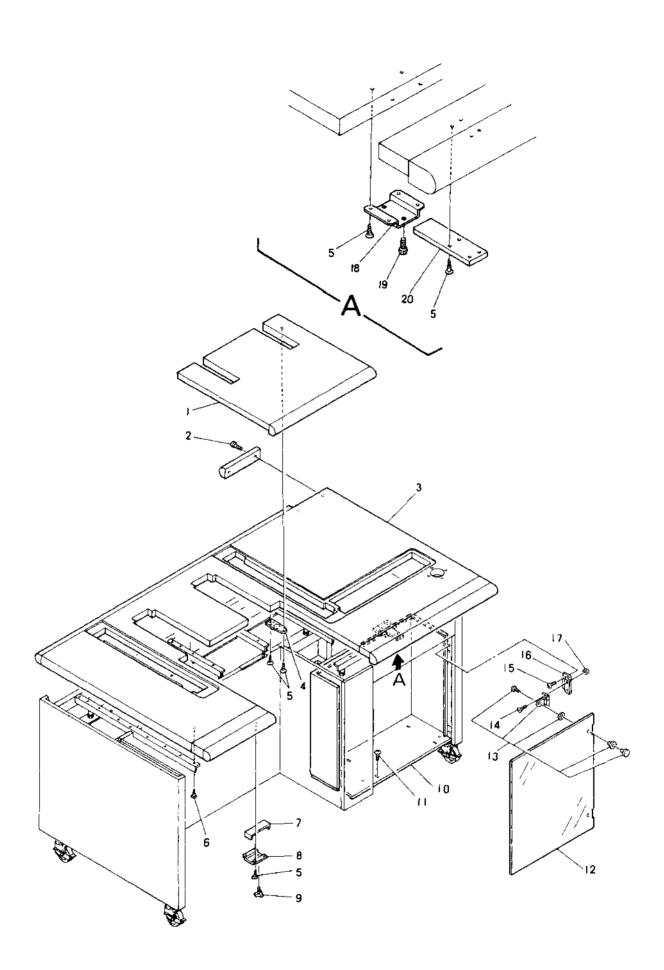
9-2 PANTOGRAPH DRIVE MECHANISM (H DIRECTION)

No.	Parts No.	Description
1	91006	
2		··SCREW (M4×0.7)
3	4826C	
4		··BOLT (M3×0.5)
5		H SLIDE PACK BASE
6		TIMING BELT RACK
7		SLIDE PACK (FBW3590)
8	4735A	
9 10		··RING ··TIMING PULLY SHAFT BUSH
10		
11		TIMING BELT PULLY
12		TIMING PULLY SHAFT (REAR)
13	4717H	
		CONNECTING SHAFT (H PULSE MOTOR)
14		··BOLT (M5×0.8) ··CONNECTING SHAFT (BEAT·101, 300×300)
15		•CONNECTING SHAFT (BEAT-101, 300×300)
		•CONNECTING SHAFT (BEAT-101, 300×450)
		CONNECTING SHAFT (BEAT-102, 300×450)
16		-CLAMPING COLLAR
17		·TIMING BELT PULLY
18		-PLATE WASHER
19		SPRING WASHER
20		·NUT (M8×1.25)
21	91001	BEARING 600077
22	4779H	
23		BOLT (M4×0.7)
24		·H GUIDE RAIL BASE (L)
25		·BOLT (M4×0.7)
26	4833C	·GUIDE RAIL
27	4827C	·TIMING PULLY SHAFT (FRONT)
28		·BOLT (M4 \times 0.7)
29	4849 A·····	-SPACER
30	***********	·PLATE WASHER
31		SPRING WASHER
32		·BOLT (M8×1.25)
33	4811A·····	H GUIDE RAIL BASE (R)



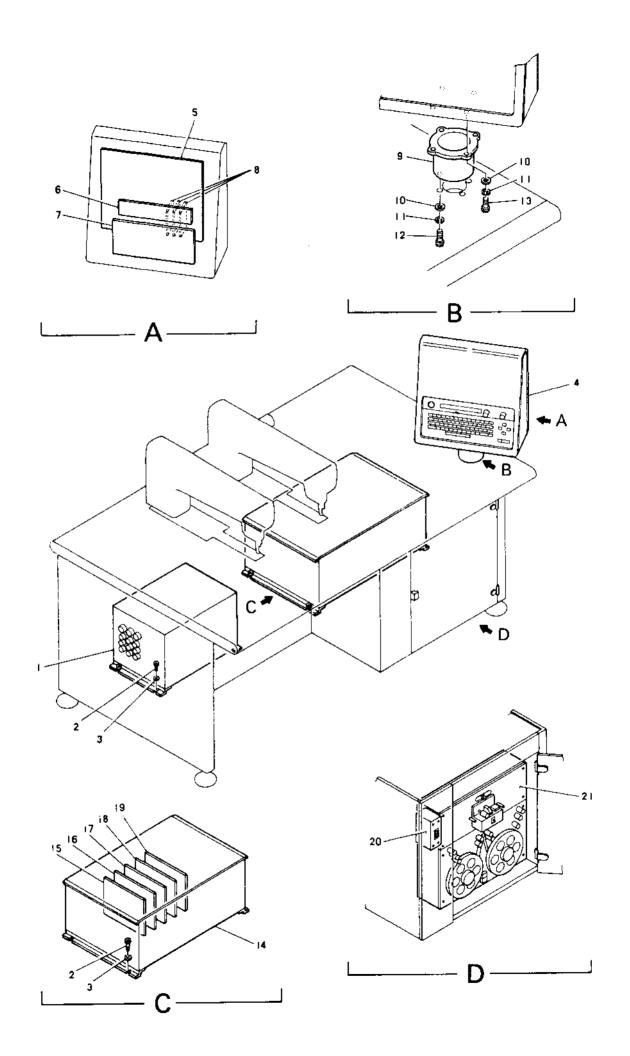
9-3 PANTOGRAPH DRIVE MECHANISM (V DIRECTION)

1 91006 BEARING 625ZZ SCREW (M4 × 0.7) 3 4826C BEARING SHAFT 4 4825C BUCKLE (TIMING BELT) 5	No.	Parts No.	Description
3 4826C BEARING SHAFT 4 4825C BUCKLE (TIMING BELT) 5 BOLT (M3×0.5) 6 4823C V SLIDE PACK BASE 7 4838C SPACER FOR FBW3590 8 4831H SLIDE PACK (FBW3590) 9 BOLT (M4×0.7) 10 4833C GUIDE RAIL 11 RING 12 4841H TIMING PULLY SHAFT BUSH 13 4754C TIMING BELT PULLY 14 4844A TIMING PULLY SHAFT (REAR) 15 BOLT (M5×0.8) 16 4718H CLAMPING COLLAR 17 4783A CONNECTING SHAFT (V PULSE MOTOR) 18 4767C CLAMPING COLLAR 19 4752H TIMING BELT PULLY 20 4812A V GUIDE RAIL BASE (300L) 4822A V GUIDE RAIL BASE (450L) 21 PLATE WASHER 23 NUT (M8×1.25) 24 91001 BEARING COVER 25 BOLT (M4×0.7) 26 BOLT (M4×0.7) 27 BOLT (M4×0.7) <td></td> <td></td> <td></td>			
4 4825C BUCKLE (TIMING BELT) 5 BOLT (M3×0.5) 6 4823C V SLIDE PACK BASE 7 4838C SPACER FOR FBW3590 8 4831H SLIDE PACK (FBW3590) 9 BOLT (M4×0.7) 10 4833C GUIDE RAIL 11 RING 12 4841H TIMING PULLY SHAFT BUSH 13 4754C TIMING BELT PULLY 14 4844A TIMING PULLY SHAFT (REAR) 15 BOLT (M5×0.8) 16 4718H CLAMPING COLLAR 17 4783A CONNECTING SHAFT (V PULSE MOTOR) 18 4767C CLAMPING COLLAR 19 4752H TIMING BELT PULLY 20 4812A V GUIDE RAIL BASE (300L) 4822A V GUIDE RAIL BASE (450L) 21 PLATE WASHER 22 SPRING WASHER 23 NUT (M8×1.25) 24 91001 BEARING COVER 25 4779H BEARING COVER 26 BOLT (M4×0.7) 27 BOLT (M4×0.7) 28 PLATE WASHER 29 4849A SPACER 30 PLATE WASHER 31 SPRING WASHER 32 BOLT (M8×1.25) 33 4736A TIMING BELT			
5			
6 4823C			
7 4838C			·
8			
9			
10	8		
11	9	************	·BOLT (M4×0.7)
12	10	4833C·····	··GUIDE RAIL
13	11		
14	12		
15	13		
16	14	4844A	TIMING PULLY SHAFT (REAR)
17 4783A			•
18	16		
19 4752H TIMING BELT PULLY 20 4812A V GUIDE RAIL BASE (300L) 4822A V GUIDE RAIL BASE (450L) 21 PLATE WASHER 22 SPRING WASHER 23 NUT (M8×1.25) 24 91001 BEARING 6000ZZ 25 4779H BEARING COVER 26 BOLT (M4×0.7) 27 BOLT (M4×0.7) 28 PLATE WASHER 29 4849A SPACER 30 PLATE WASHER 31 SPRING WASHER 32 BOLT (M8×1.25) 33 4736A TIMING BELT	17		
20	18		
4822A V GUIDE RAIL BASE (450L) 21	19		
21	20		·
22 SPRING WASHER 23		4822A·····	·V GUIDE RAIL BASE (450L)
23	21	**********	PLATE WASHER
24 91001 BEARING 6000ZZ 25 4779H BEARING COVER 26 BOLT (M4×0.7) 27 BOLT (M4×0.7) 28 PLATE WASHER 29 4849A SPACER 30 PLATE WASHER 31 SPRING WASHER 32 BOLT (M8×1.25) 33 4736A TIMING BELT	22		SPRING WASHER
25 4779H BEARING COVER 26 BOLT (M4×0.7) 27 BOLT (M4×0.7) 28 PLATE WASHER 29 4849A SPACER 30 PLATE WASHER 31 SPRING WASHER 32 BOLT (M8×1.25) 33 4736A TIMING BELT	23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-NUT (M8×1.25)
26	24	91001	BEARING 6000ZZ
27	25	4779H	BEARING COVER
28	26	************	·BOLT (M4×0.7)
29	27		BOLT (M4 \times 0.7)
30	28		PLATE WASHER
30	29	4849 A	·SPACER
32BOLT (M8×1.25) 33 4736ATIMING BELT	30		
33 4736A·····TIMING BELT	31	*********	SPRING WASHER
33 4736A·····TIMING BELT	32		·BOLT (M8×1.25)
	33		
	34		



10 TABLE AND TAPE HANDLER BOX

No.	Parts No.	Description
1	1217A	·CENTER TABLE (BEAT-102, 300×300) ·CENTER TABLE (BEAT-101, 300×300)
		·CENTER TABLE (BEAT-102, 300×450)
	1219A	-CENTER TABLE (BEAT-101, 300×450)
2		·SCREW (M6×1)
3		-TABLE (BEAT-102, 300×300)
		-TABLE (BEAT-101, 300×300)
	1218A·····	·TABLE (BEAT-102, 300×450)
	1219A·····	·TABLE (BEAT-101, 300×450)
4	91225	·HINGE (B-31)
5	***********	·SCREW
6		
7		SUPPORT PLATE (CENTER TABLE)
8		SUPPORT PLATE BRACKET
9	91232	·BOLT (M8×1.25)
10	7145A	BOX FOR TAPE HANDLER
11	,	-SCREW (M6×1)
12	7148A······	BOX COVER 56.5 × 48 (BEAT 300 × 300)
	7148A	BOX COVER 52×48 (BEAT 300×450)
13	7143A	·HINGE
14		-SCREW (M3×0.5)
15		·SCREW (M4×0.7)
16	7149A·····	BRACKET
17		·NUT (M3×0.5)
18	1438A	SUPPORT PLATE BRACKET
19		·BOLT (M6 $ imes$ 1)
20	1462A	SUPPORT PLATE



(I) CONTROL SYSTEM

No.	Parts No.	Description
1	5210A	··TRANSFORMER
2		··BOLT (M5×0.8)
3	***************************************	··PLATE WASHER
4	5110A·····	··CONTROLLER (AUTOMAT)
5	****************	··CONTROLLER BOARD (87001201)
6	***************************************	-CRYSTAL LIQUID INDICATOR
7		··KEY BOARD (87001301)
8	***************************************	MEMORY BOARD (87001401)
9	5191A	·BASE (CONTROLLER)
10	***************************************	·PLATE WASHER
11	****************	SPRING WASHER
12	1+41++++++1141++	·BOLT (M8×1.25)
13		-BOLT (M8×1.25)
14	5120A	DRIVER BOX
15	***************************************	POWER SUPPLY BOARD (86862201)
16		DRIVER INTERFACE BOARD (86862301)
17	***************************************	DRIVER BOARD (V/H) (86862501)
18	,,,	DRIVER BOARD (V/H) (86862501)
19	***************************************	POWER INTERFACE BOARD (86862401)
20	***************************************	MAIN SWITCH (BRAKER)
21	5220A	·TAPE HANDLER