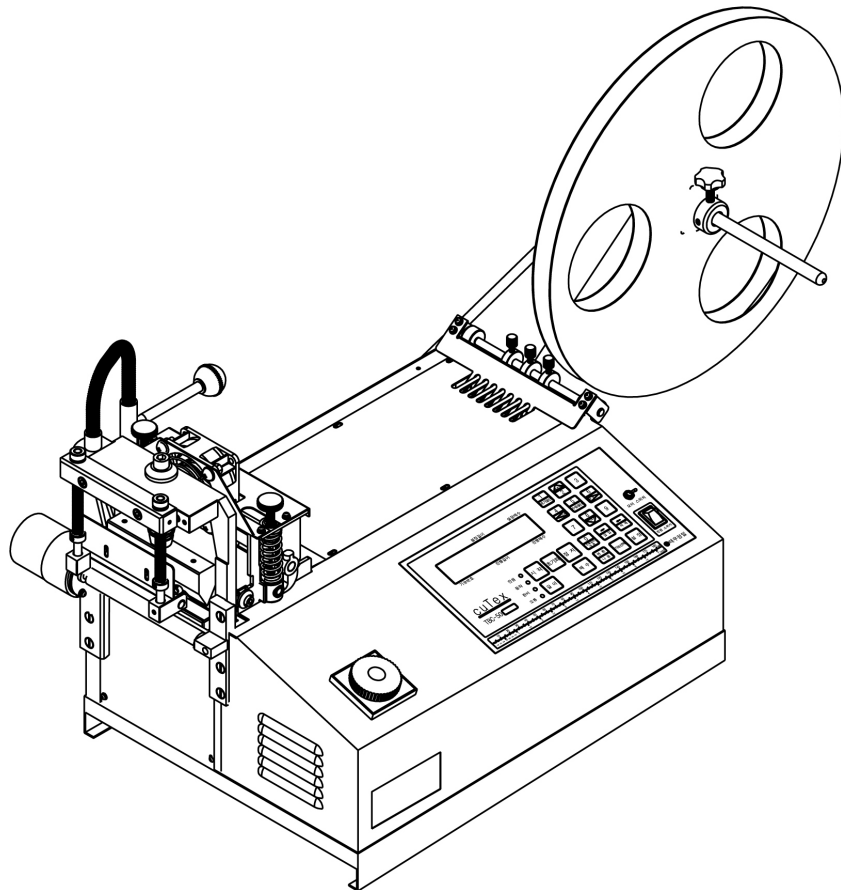


cuTex

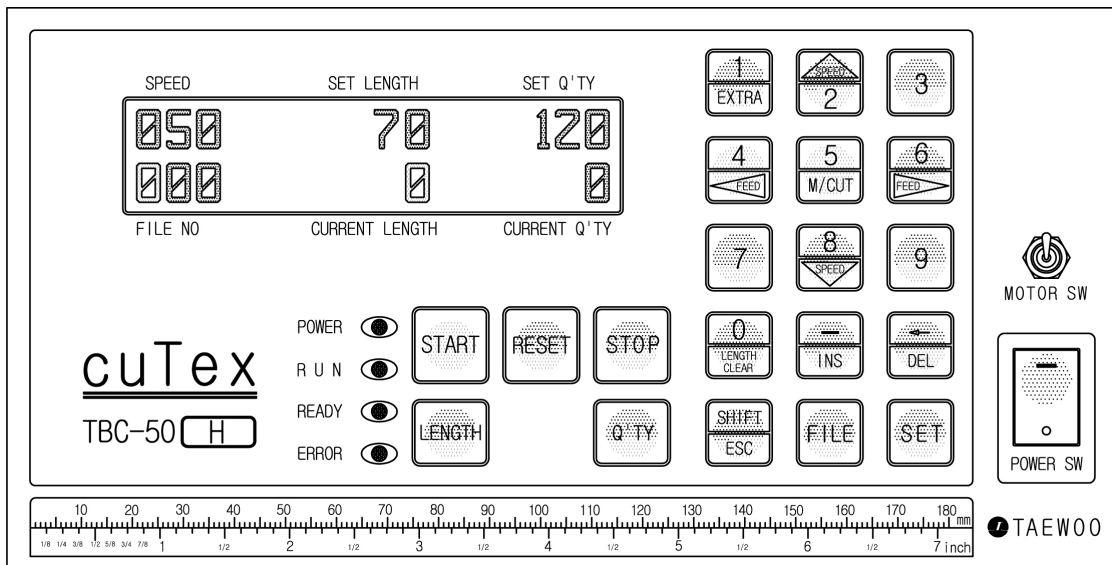
How to operate Automatic Ribbon Tape & Small Webbing Cutter

(Model No. : TBC-50H)



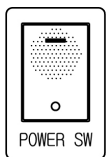
TAEWOO CO., LTD.

How to operate TBC-50H



1. An example (Cutting length : 70mm, Cutting quantity : 120 pcs)

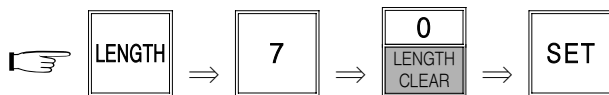
▷ Turn on the POWER SW.



▷ Set the temperature. (It is normally used at 250°~350°C. About 5 minutes after turn-on & set it, it will be reached to set-temperature. (For more detail, refer to the appended "How to use temperature Controller DX4")

※ Caution : When a work is over, set the temperature at zero and turn the cooling fan 10 minutes or so and power off.

▷ Set cutting length. (Press the following buttons in order.)



▷ Set cutting quantity.



▷ Running of knife-front roller

Turn on MOTOR SW to prevent cutted materials from clinging to the knife blade.

▷ Press START button.



2. Key functions



: Current length on display will be back to "0" at a stop.



: All of current length and current q'ty on display will be back to "0".



: Moving knife only.

- ① to cut the material for test.
- ② to take out the material jammed between knife blades.
- ③ for balancing of knife blades in exchange.



: Cutting additional one.



: Restoring to normal condition in ERROR(red LED) and inputting parameter or program.



: to move the roller manually for mounting the material on the machine or for feeding it forwards or backwards.



— Speed up (The current speed appears on the left-upside of LCD display with "%". Normal speed : 50%, Maximum speed : 100%)



— Speed up (The current speed appears on the left-upside of LCD display with "%". Normal speed : 50%, Maximum speed : 0%)

* Speed up & down is possible in any time(operation or stop) and set-speed will not be changed even though you press RESET button or power off & on.



: to correct rong data.



: Function for label cutting (applicable models : TBC-50S, TBC-50SH)

: to prevent the cutted material from clinging to the knife blade.

(This switch is installed to Model TBC-50H, TBC-50SH, TBC-50HX only.)

3. Specification

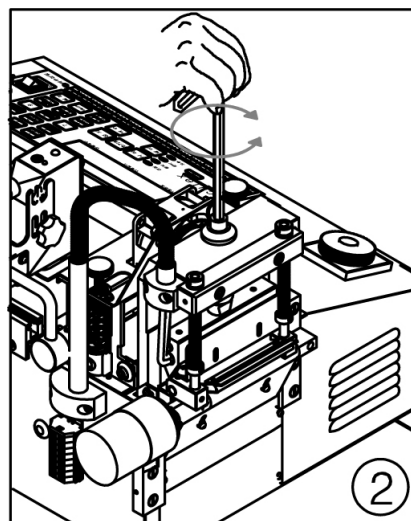
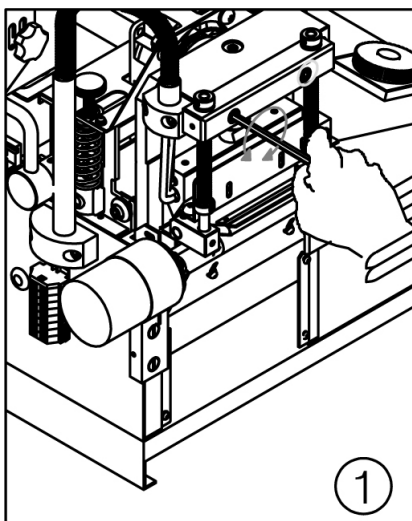
Model Name	Main Cutting Materials	Cutting Knife	Power Supply	Max. Cutting Width	Range of Cutting Length	Cutting Q'ty/min. (Length: 50mm)	Machine Size (Net Weight)	Packing Size (Gross weight)
TBC-50H (Ribbon Tape cutter)	Ribbon tape, Small webbing	Hot	AC110/220V 50/60Hz	90mm	15mm~99,999mm	120~140 cuts	820×370×380 (20.5kgs)	630×475×450 (24.4kgs)

4. Caution for use

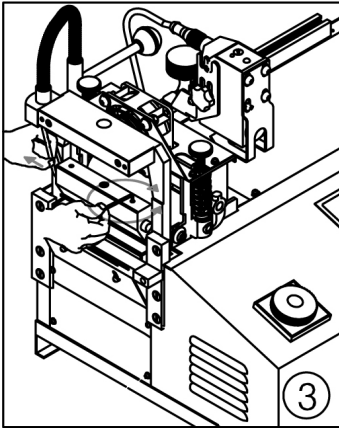
- Before use, please confirm the voltage and make ground(earth) connection.
- Do not access hands or any object close to the working knife. (for safety)
- When the knife blade becomes dull, please use it after grinding with the grinding machine. (Please do not let the unskilled person grind manually or install the knife blade.)

EXCHANGE OF KNIFE

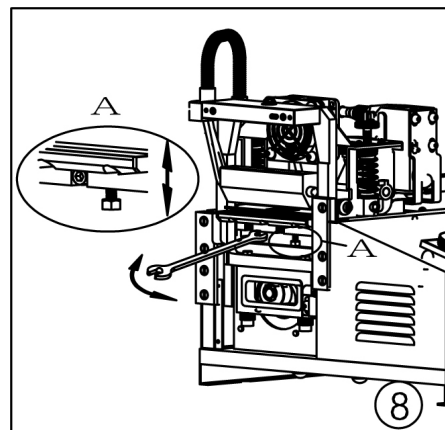
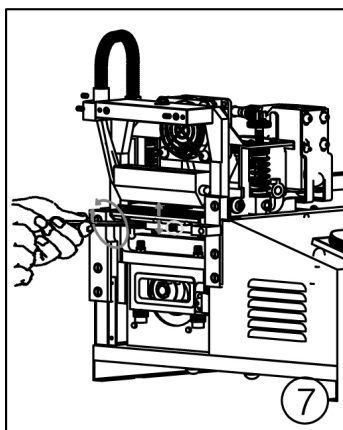
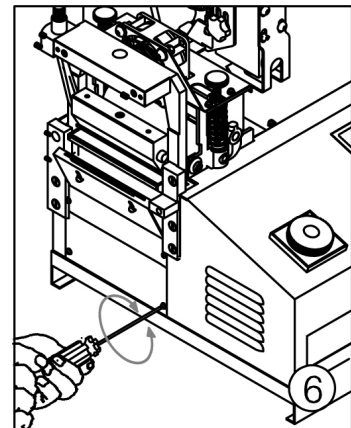
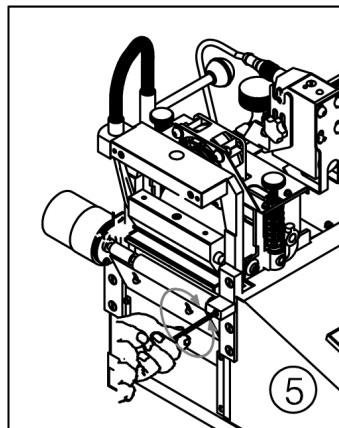
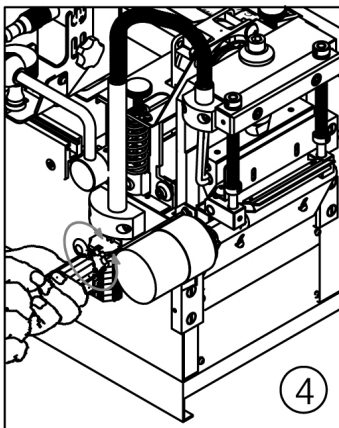
- ① **First of all, move up the upper knife to top level and power off and take off the presser of upper knife after unscrewing 2 bolts by 4mm-wrench.**
- ② **Take off the upper knife frame by 6mm-wrench.**



- ③ Take off the heater after unscrewing the fixing bolt by 2.5mm-wrench.
(Install new upper knife and assemble it again vice versa.)

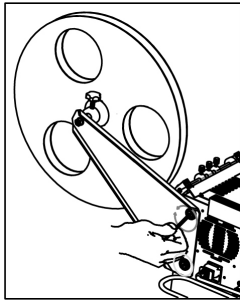


- ④ If necessary to exchange the lower knife plate, unscrew bolts of the front feeding motor.
⑤ Unscrew bolts of the front feeding roller and take off the motor & the roller.
⑥ Take off the cap by unscrewing bolts.
⑦ Unscrew 3 fixing bolts by 7mm-wrench and take off the lower knife plate.
⑧ If no cutting or one sided cutting, make the upper knife contacted to the lower knife plate and check the level between upper knife & lower knife plate and power off & adjust gap or pressure by 7mm-spanner. (Clockwise turn of spanner makes the lower knife plate up, anti-clockwise turn makes it down.)



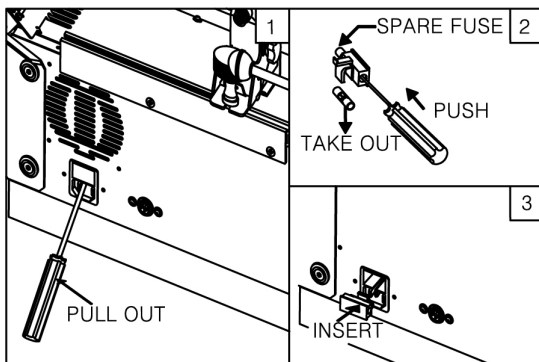
Mount of roll

Fix the roll triangle by 4mm-wrench.



Exchange of fuse

Take off the power plug and exchange as picture.



- Please contact following address for further information.

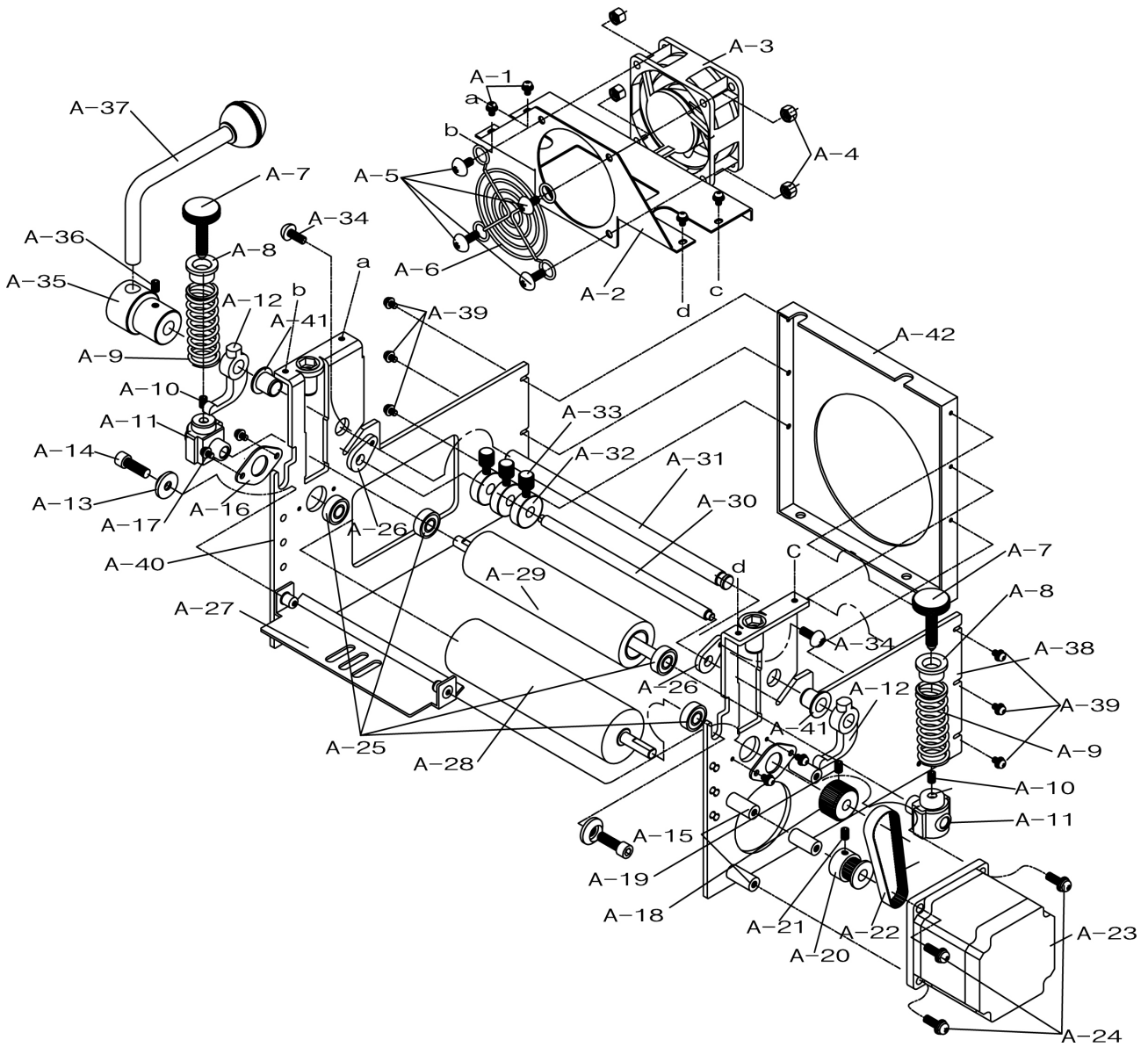


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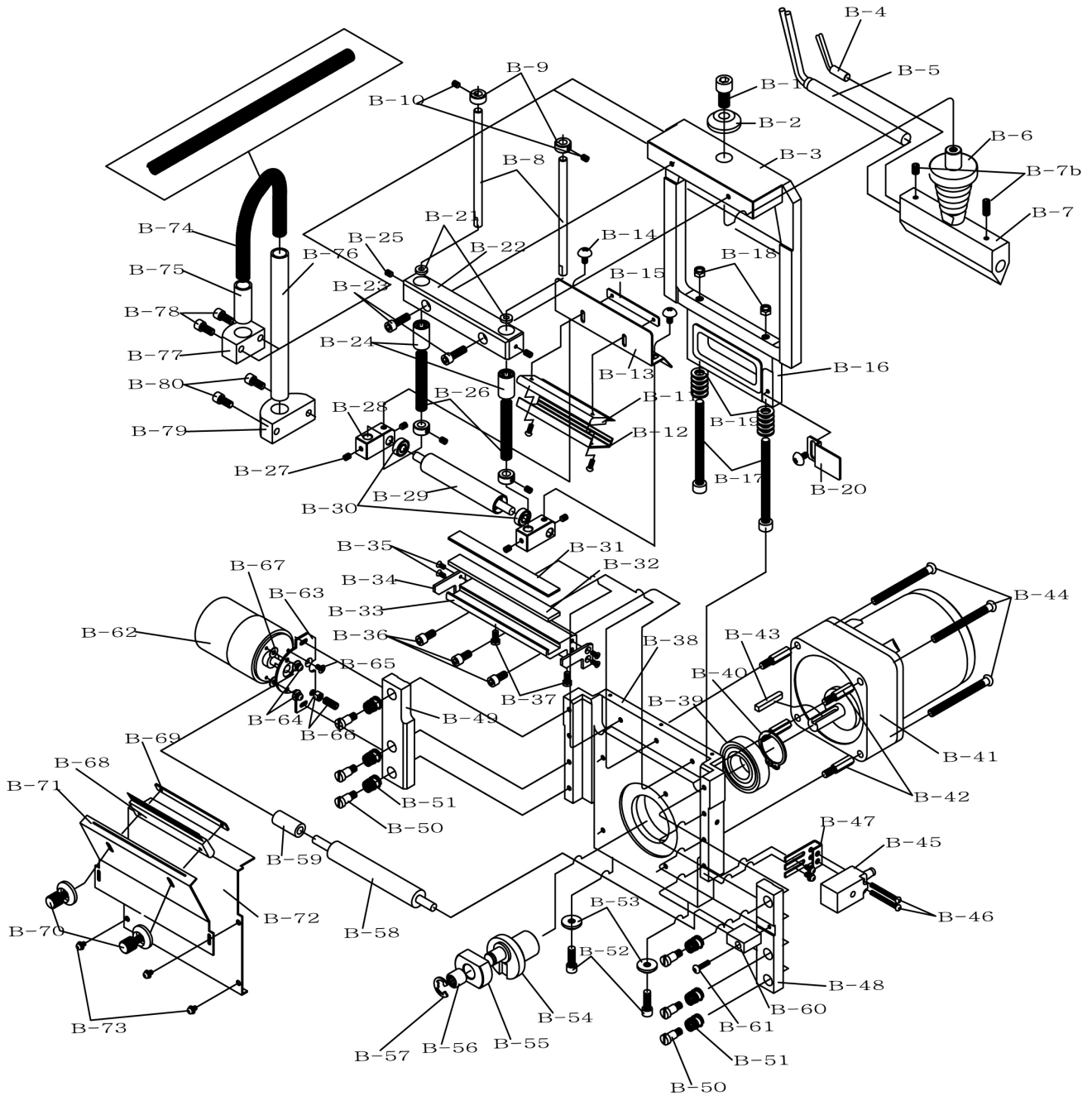
Part Drawing A of TBC-50H (Feeding part)



Part List A of TBC-50H (Feeding part)

Part No.	Description	Part No.	Description
A-1	Clamping Bolt(M3×5L)	A-23	Stepping Motor
A-2	Upper Cap of Cooling Fan	A-24	Clamping Bolt(M4×13L)
A-3	Cooling Fan(Small)	A-25	Ball Bearing(#696)
A-4	Check Nut(M4)	A-26	Guide-clamping Bracket
A-5	Clamping Bolt(M4×10L)	A-27	Stopper
A-6	Safety-grill of Cooling Fan	A-28	Lower Roller
A-7	Pressure-control Bolt	A-29	Upper Roller
A-8	Pressure-control Spring Cover	A-30	Front-guide Pin
A-9	Pressure-control Spring	A-31	Lever Shaft
A-10	Detent Screw(M4×6L)	A-32	Guide Ring
A-11	Slide Block of Upper Roller	A-33	Knob Bolt of Guide Ring
A-12	Slide Lever	A-34	Round Screw(M4×5L)
A-13	Clamping Washer	A-35	Lever Bracket
A-14	Wrench Bolt(M4×14L)	A-36	Clamping Bolt(M5×5L)
A-15	Tie Bar of Stepping Motor	A-37	Lever
A-16	Bearing Cover	A-38	Right Roller Bracket
A-17	Clamping Bolt(M3×5L)	A-39	Clamping Bolt(M3×5L)
A-18	Feed-timing Gear(MXL30T)	A-40	Left Roller Bracket
A-19	Detent Screw(M4×6L)	A-41	Oilless
A-20	Drive-timing Gear(MXL20T)	A-42	Space Plate of Roller Bracket
A-21	Detent Screw(M3×6L)		
A-22	Timing Belt(MXL75)		

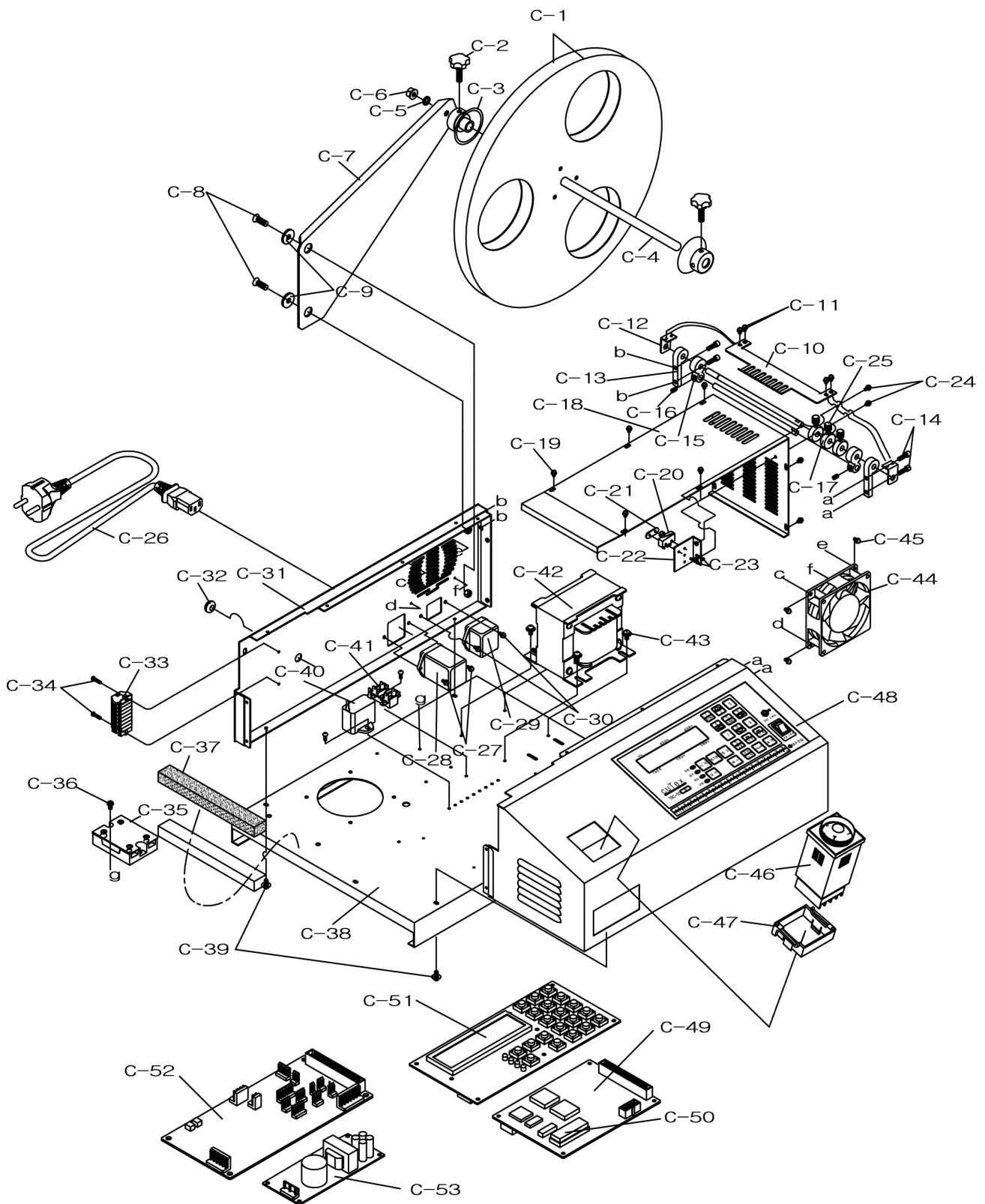
Part Drawing B of TBC-50H (Cutting part)



Part List B of TBC-50H (Cutting part)

Part No.	Description	Part No.	Description
B-1	Clamping Bolt(M8×15L)	B-38	Lower Knife Case
B-2	Neck Washer of Hot-knife Bracket	B-39	Ball Bearing(#6004)
B-3	Upper Knife Case	B-40	Snap Ring
B-4	Heat Sensor	B-41	Motor + Reduction Gear
B-5	Heater	B-42	Motor Supporter
B-6	Hot-Knife Bracket	B-43	Motor Key
B-7	Hot-Knife	B-44	Clamping Bolt(M5×42L)
B-7b	Detent Screw(M5×5L)	B-45	Counting Sensor
B-8	Vertical Axle	B-46	Clamping Bolt(M3×18L)
B-9	Shaft Ring	B-47	Clamping Bracket
B-10	Detent Screw(M4×4L)	B-48	Right Pressure Plate
B-11	Pressing Plate Cover	B-49	Left Pressure Plate
B-12	Clamping Bolt(M4×6L)	B-50	Clamping Bolt of Pressure Plate
B-13	Front Cover	B-51	Pressure Spring
B-14	Clamping Bolt(M3×5L)	B-52	Wrench Bolt(M5×15L)
B-15	Slide Ram	B-53	Neck Washer
B-16	Clamping Bolt(M6×80L)	B-54	Crank Bundle
B-17	Check Nut(M6)	B-55	Cam
B-18	Flat-head Washer Spring	B-56	Niddle Bearing
B-19	Counting-sensor Bracket	B-57	E-Ring
B-20	Shaft Rubber-bushing	B-58	Front Feeding Roller
B-21	LM Guide	B-59	Front Feeding Sub-roller
B-22	Wrench Bolt(M5×20L)	B-60	Roller Shaft Bracket
B-23	LM Bearing	B-61	Clamping Bolt(M3×12L)
B-24	Detent Screw(M4×6L)	B-62	DC Motor
B-25	Verical Axle Ring	B-63	DC Motor Bracket
B-26	Detent Screw(M4×6L)	B-64	Clamping Bolt(M3×4L)
B-27	Roller-clamping Bracket	B-65	Flat-head Bolt(M3×4L)
B-28	Pressing Roller	B-66	Vertical Control Nut
B-29	Roller Shaft	B-67	Flat Washer
B-30	Ball Bearing(#686)	B-68	Heater Wiring Spring
B-31	Heating Plate	B-69	Heater Wiring Pipe(1)
B-32	Silicon Plate	B-70	Heater Wiring Pipe(2)
B-33	Heating Plate Bracket	B-71	Upper Pipe Bracket
B-34	Bracket Side Cover	B-72	Wrench Bolt(M4×15L)
B-35	Flat-head Bolt(M3×8L)	B-73	Lower Pipe Bracket
B-36	Wrench Bolt(M5×15L)	B-74	Wrench Bolt(M4×15L)
B-37	Hexagon-head Bolt(M4×8L)		

Part Drawing C of TBC-50H (Other parts)



Part List C of TBC-50H (Other parts)

Part No.	Description	Part No.	Description
C-1	Roll-hanger Wheel	C-28	AC Connector(IN-PUT)
C-2	Clamping Bolt of Holder	C-29	AC Connector(OUT-PUT)
C-3	Holder	C-30	Clamping Bolt(M3×5L)
C-4	Roll-hanger Shaft	C-31	Left Cover
C-5	Roll-hanger Shaft Washer	C-32	Rubber Bushing
C-6	Check Nut(M6)	C-33	Separated Terminal
C-7	Roll Hanger	C-34	Clamping Bolt(M3×6L)
C-8	Flat-head Bolt(M6×16L)	C-35	SSR(Solid State Relay)
C-9	Neck Washer of Roll-hanger	C-36	Clamping Bolt(M4×8L)
C-10	Existence Detector	C-37	Sponge
C-11	Clamping Bolt(M3×5L)	C-38	Base
C-12	Clamping Bolt	C-39	Clamping Bolt(M4×8L)
C-13	Rear Guide-pin Bracket	C-40	Condenser
C-14	Wrench Bolt(M4×15L)	C-41	Terminal
C-15	Rear Tension-guide Block	C-42	Transformer
C-16	Detent Screw(M4×6L)	C-43	Clamping Bolt(M4)
C-17	Guide Ring	C-44	Cooling Fan(Large)
C-18	Upper Guide Plate	C-45	Clamping Bolt(M3×6L)
C-19	Clamping Bolt(M3×5L)	C-46	Temperature-controller
C-20	Micro Limit Switch	C-47	Temperature-controller Socket
C-21	Plate Nut	C-48	Control Cover
C-22	Limit Switch Bracket	C-49	Control Circuit Board(MB)
C-23	Clamping Bolt(M2×10L)	C-50	ROM
C-24	Clamping Bolt(M3×5L)	C-51	Operation Circuit Board(OP)
C-25	Knob Bolt	C-52	Drive Circuit Board(DR)
C-26	Power Cord	C-53	SMPS(Power Supply,SP)
C-27	Clamping Bolt(M3×5L)		

Trouble-shooting of TBC-50 series

No	Troubles		Applicable model	Causes & Measures
1	No power supply		All models	<ul style="list-style-type: none"> - Check if electric cord is connected well. - Check if the fuse blows out or not.
2	Power is on, but no work	Feeding roller doesn't work.	All models	<ul style="list-style-type: none"> - Check if there is inserted any alien substance in roller. - If current length on display is changed, exchange drive board. - If current length on display is not changed, exchange Control board(MB).
		Knife doesn't work.	All models	<ul style="list-style-type: none"> - Check if pressure plates of upper knife are too much fastened or not.
		LCD display doesn't work.	All models	<ul style="list-style-type: none"> - After opening the cover, check the connetion. (especially between Operation & MB board)
		All functions don't work	All models	<ul style="list-style-type: none"> - Check if auto-stop device lies down. If any, raise it up.
3	Material is not cut.		Hot cutter (H, LH, SH, HX)	<ul style="list-style-type: none"> - Check if temperature goes up to set-degree. - Check if knife blades are even(parallel).
4	Material is cut onesidedly.		All models	<ul style="list-style-type: none"> - Check if blades are damaged or worned. - After making both knives close each other by M/CUT button and check if they are even or not. (If they are not even, adjust them by bolts)
5	Cut-length is different from set-length.		All models	<ul style="list-style-type: none"> - Test cutting after loosening material from the reel by hand or attaching feeding device.
6	It cuts before the cutting line of labels.		Label cutter (S, SH)	<ul style="list-style-type: none"> - Move the sensor towards knife side as long as the difference by pushing.
7	It cuts after the cutting line of labels.		Label cutter (S, SH)	<ul style="list-style-type: none"> - Move the sensor towards counter-knife side as long as the difference by pushing.
8	ERROR on LCD & LED	ERROR CODE [064] >Sensor check Er	Label cutter (S, SH)	<ul style="list-style-type: none"> - Trouble in Mark sensor → · Check if the sensor is connected well or not. · Check if the sensor is adjusted well or not. (FILE NO 001) · Check if it is label problem or not.
		ERROR CODE [065] >CUT I/O Error!	All models	<ul style="list-style-type: none"> - Trouble in cutting motor or cutting sensor → · Upper knife moves 1~3 sec. and ERROR on display. Check the connection of cutting sensor. If not, exchange the cutting sensor. · Upper knife doesn't move and ERROR on display. Exchange the cutting motor or drive board.
		STOP INPUT !! CHECK STOP INP!	All models	<ul style="list-style-type: none"> - Auto stop device is pressed down or shortage. → raise up the device and check shortage.
		(C)ACORD CTRL-OP AMC-T3KA VER1.7D	All models	<ul style="list-style-type: none"> - Bad connected ROM → Press ROM by hand or connect it again. (If not, change MB board)
		ERROR CODE[065] >CHECK CODE[003]	All models	<ul style="list-style-type: none"> - Change of FILE 003 in program by noise or mis-operation → Initialize the controller. ※ How to Initialize(programs to be initial) : press SET + SHIFT/ESC buttons and RESET button at the same time. (Press RESET later than other two keys.)
9	Operator feels electric current in touch of machine.		All models	<ul style="list-style-type: none"> - Connect the earth cord(green) to any bolt of backside of machine.

※ A/S center : TEL +82 31 521 6904~7, FAX +82 31 521 6908