

Operation Manual

Thank you very much for purchasing **AC** series printer



- In order to use LA series printer correctly and safely and understand this product's capability, please read this manual carefully.
- Copying this manual completely or partly are forbidden, the offenders will investigate its legal liability.
- This manual is subjected to change without notice.
- Contents here in contained are believed to be correct, however, please contact us if you find any mistakes.

21, July, 2016

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1.1 Important Safety Measures

Please read the following instructions before using the printer. Follow cautions and instructions which are labeled on the printer:

- 1) Do NOT block the opening on the top of the printer.
- 2) Do NOT insert any object into the printing platform. Prevent spilling liquid onto the printer.
- 3) ONLY 220V can be applied.
- 4) Connect all the power cord to a single socket extension. Avoid sharing the socket with the devices which will be on and off frequently.
- 5) Avoid using the socket with self-timer control and with the switch on the wall.
- 6) Keep your computer away from any device which will release electro-magnetic field, such as wireless phone.
- 7) Do NOT use damaged power cord.
- 8) If using an extra power cord, keep in mind that the total ampere of this device does not exceed the assigned ampere of the power. Also, the total ampere of all the device which connect to single socket cannot exceed the assigned ampere.
- 9) Do NOT try to repair the printer.

When encounter the following circumstance, disconnect the power and contact your local distributor for support:

- 1) Power cord or plug is damaged;
- 2) Liquid is spilled onto the printer;
- 3) The printer falls down or the surface is broken;
- 4) Printer does not run normally.

1.2 Handling Printer Caution

- 1) Do NOT move the carriage when the power is on.
- 2) Always use the power switch to turn on or off the printer. Do NOT try to remove the data cable or the power cord when the machine is on.
- 3) Make sure the carriage is stabilized in the origin position during transport.

1.3 Handling Ink Tank Caution

- 1) Please store ink tanks at the place where children cannot reach. Do NOT let children touch the ink tank.
- 2) If ink is spilled into eyes, immediately wash with water and see your doctor.
- 3) Do NOT shake the ink tank, this may cause leakage.
- 4) Please often check the ink content in main ink tank, avoid unnecessary loss due to lack of ink.
- 5) Please often check the waste ink tank and replace it in time when it becomes full.

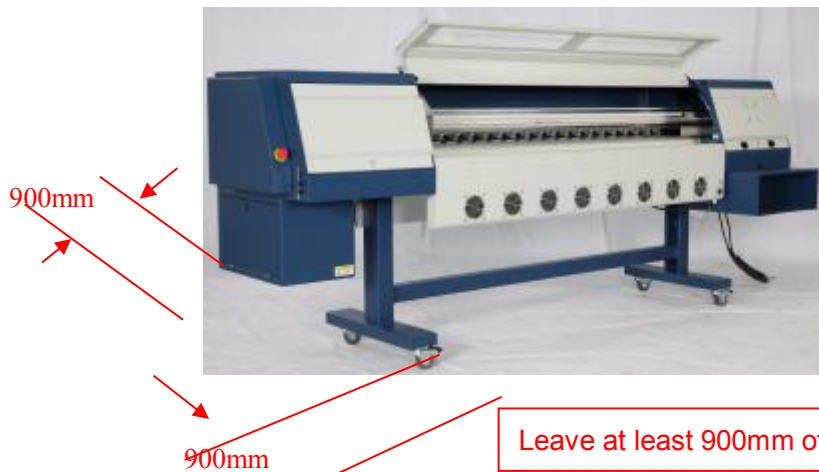
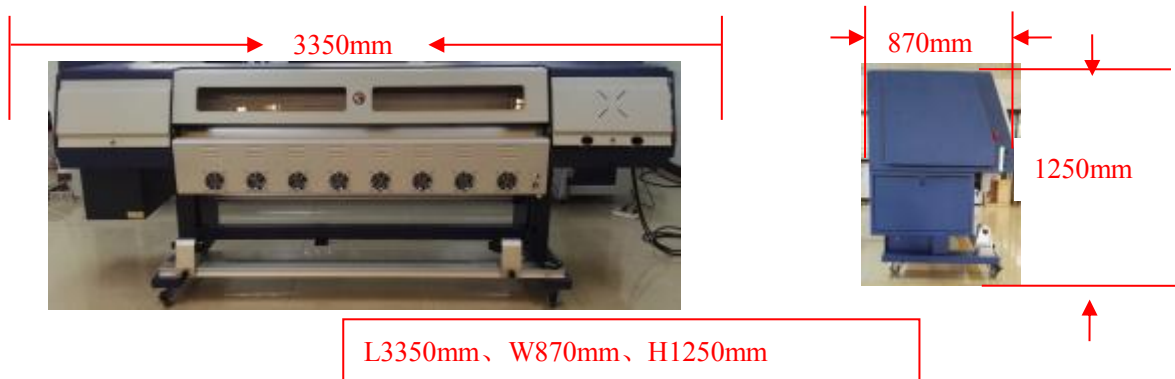
1.4 Printer Installation Site

- 1) Place the printer on a level floor otherwise it will not operate normally.
- 2) Avoid placing the printer in the area with huge change of temperature and humidity. Do NOT expose the printer to direct sunlight or heat. Avoid placing the printer in any possible shaking or vibrating area.
- 3) Leave enough space around the printer to ensure normal ventilation.
- 4) Place the printer close to the power socket so that power cord can be removed and plugged easily.

2.1 Environment Requirement

Keep the room temperature between 20—30℃, and the humidity between 40—60%. Air conditioner and humidifier may require. Keep a distance from strong radiation field. The floor must be level.

Site Requirement:



2.2 Electrical requirement

The printer only supports AC 220V. A transformer is needed if the area is using AC110V.

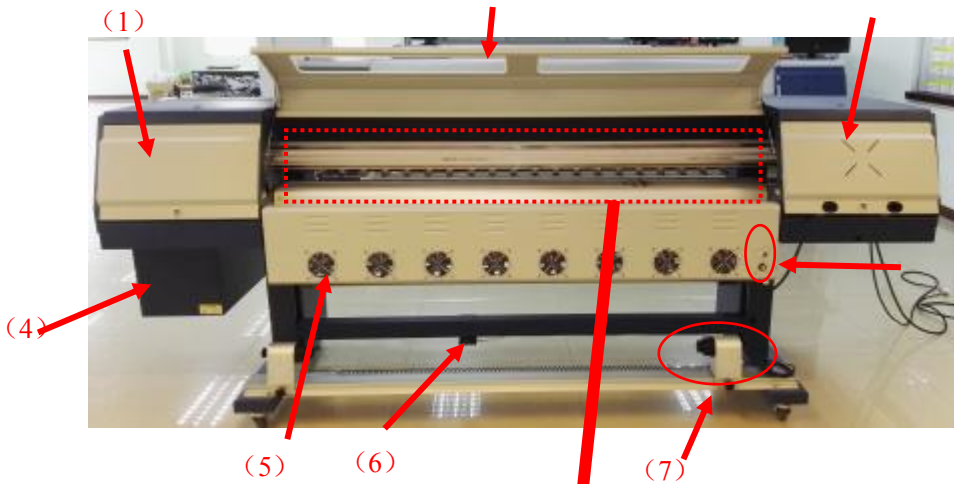
! The printer must be well grounded (the grounded voltage should be less than 0.3V, and the grounded resistance should be less than 3Ω).

! UPS and voltage stabilizer is highly recommended.

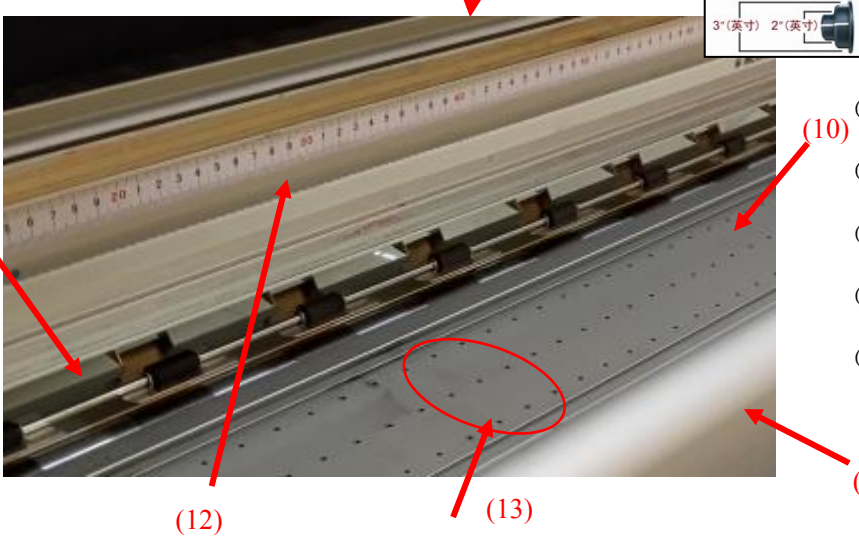
! **Note: .AC\AE Heater: 3300W (15A)、Printer: 1650W (7.5A)**

Note: The total power consumption of the machine cannot be higher than the assigned power on the socket.

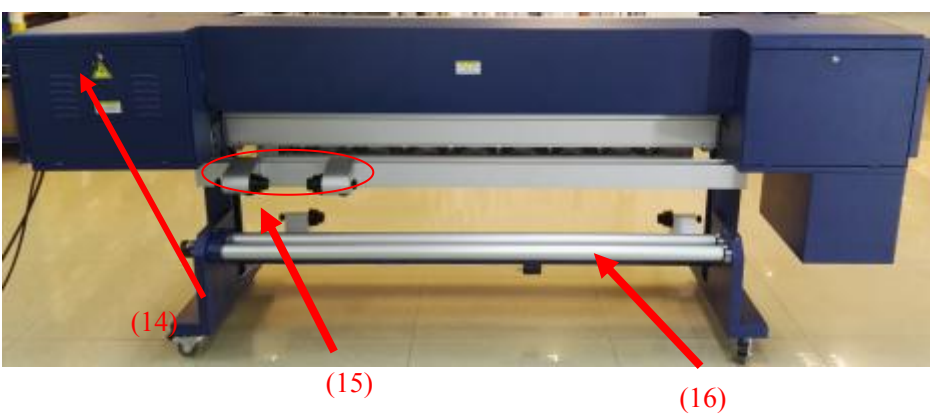
3.1 Machine Structure:



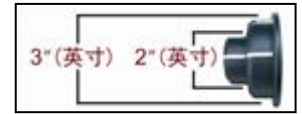
- (1) Left machine box
- (2) Cover
- (3) Right machine box
- (4) Lower left machine box (place main ink bottle)
- (5) Fan+IR dryer
- (6) Feeding sensor
- (7) Automatic Take-up system
- (8) Infrared drying switch+adjusting knob



- (9) Rear heater
- (10) Middle heater
- (11) Front heater
- (12) Alloy-aluminum crossbeam
- (13) Alloy-aluminum Platen



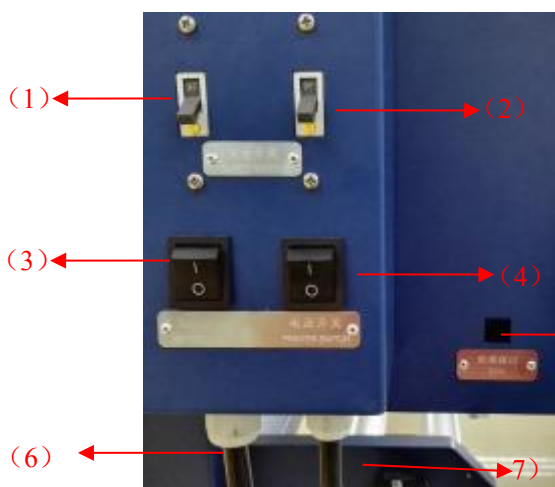
- (14) Electric cabinet
- (15) Rear pull cloth system
- (16) Take-up rod (matching)



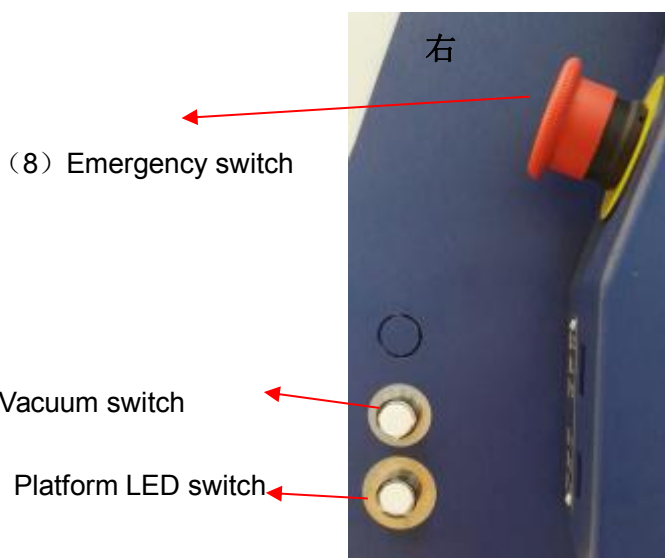
Chapter 3

Machine Structure and Accessories

3.2 Name and Function of the Controlling Parts:



- (1) Heater safety switch
- (2) Main power safety switch
- (3) Heater switch
- (4) Printer main switch
- (5) USB data port
- (6) Heater power line(50/60Hz 4 m²)
- (7) Main power line(AC220V 50/60Hz 2 m²)



(8) Emergency switch

(9) Vacuum switch

(10) Platform LED switch



Notice:

Make the flush tube and printhead butt-joint and press 12button at the same time,ensure using the right way to clean the printhead with flush.

(11) Clean lighting switch

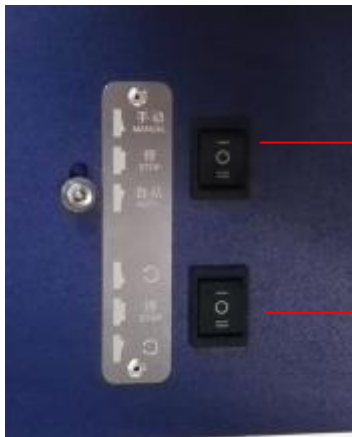
(12) Cleaning switch



(13) Front heater temperature controller

(14) Middle heater temperature controller

(15) Rear heater temperature controller



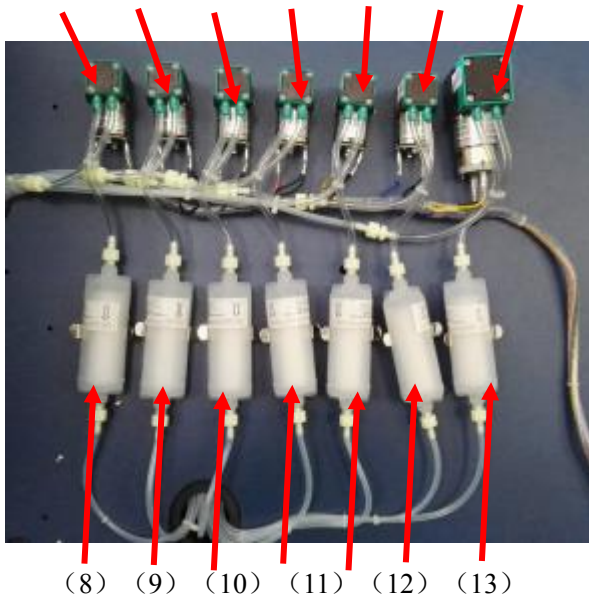
- (16) Take-up manual automatic switch button
- (17) Feeding forward reverse switch



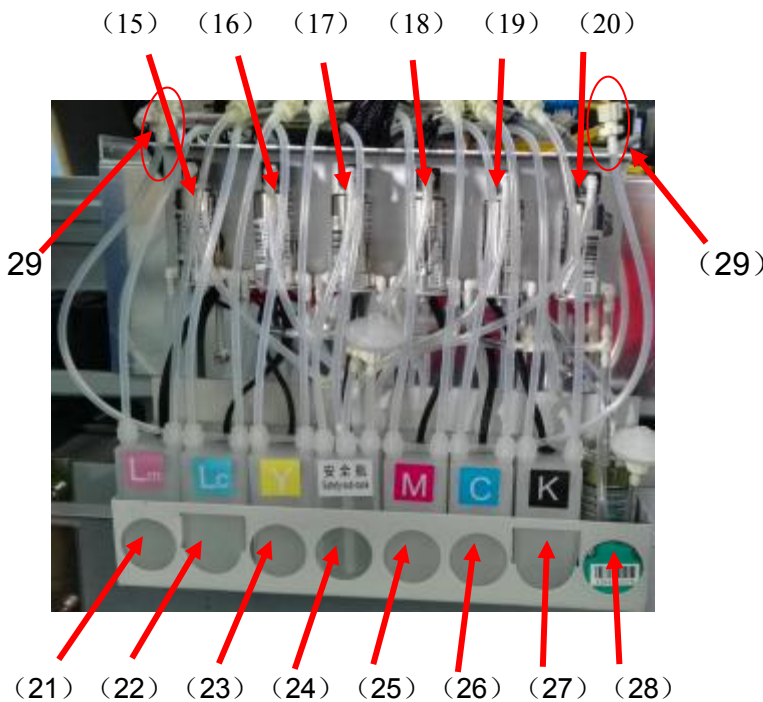
- (18) K single ink pressure button
- (19) C single ink pressure button
- (20) M single ink pressure button
- (21) Y single ink pressure button
- (22) LC single ink pressure button (4C without LC)
- (23) LM single ink pressure button (4C without LM)

Notice: 4C without LC, LM!

3.3 Ink Supply System:



- (1) K ink pump
- (2) C ink pump
- (3) M ink pump
- (4) Y ink pump
- (5) Lc ink pump (4C without LC)
- (6) Lm ink pump (4C without LM)
- (7) Cleaning pump
- (8) K filter
- (9) C filter
- (10) M filter
- (11) Y filter
- (12) Lc filter (4C without LC)
- (13) Lm filter (4C without LM)
- (14) Flush filter



- (15) Lm electric valve (4C without LM)
- (16) Lc electric valve (4C without LC)
- (17) Y electric valve
- (18) M electric valve
- (19) C electric valve
- (20) K electric valve
- (21) Lm subtank (4C without LM)
- (22) Lc subtank (4C without LC)
- (23) Y subtank
- (24) Safety bottle
- (25) M subtank
- (26) C subtank
- (27) K subtank
- (28) Air pump
- (29) Flush tube

Notice: Make sure the flush tube (29) and printhead ink tube have butt-joint before starting the flush cleaning system.

Please wash out all the flush after cleaning, and seal the entrance with quick connector to avoid pipeline pollution by impurity.

Specification			
Model	AC Model		
Max. printing width	1900mm	1800mm	
Max. media width	1900mm	1800mm	
Printhead	19C6AC	18C8AC	
	Toshiba CE4M	Toshiba CE4M	
	4pcs/6pcs	4pcs/8pcs	
Ink	Type	ECO Solvent Ink	
	Color	4 colors (C,M,Y,K) , 6 colors (C,M,Y,K,Lc,Lm)	
	Volume	1 Liter for each cartridge	
	Ink supply system	Low ink detector, auto or manual ink supply system	
Media	Width	1900mm	1800mm
	Type	Flex, Vinyl, Film, Polyester, pp gum, etc.	
Auto Feeding System	Equipped (Max. weight: 25kg)		
Ph. Cleaning System	Individual cleaning		
Pre-heating & DrvinaSvstem	Front heater,middle heater,rear heater		
Clamp	Equipped		
Printhead Height	Adjustable distance from 1.5mm~3mm		
Input Voltage	AC 220V/230V, 50Hz/60Hz		
Printer Dimension/Weight	L3310xW970xH1260mm /302kg		
Package Dimension/Weight	L3490xW1100xH845mm /528kg		

Galaxy Series AC Model Spare Parts

Printhead: Toshiba CE4M (Model: AC, AE)

Notice: “√” indicates applicable model, otherwise indicates both

Code		Parts Name	Specification	Unit	19C6	32C8
Printhead	P30439	Nozzle Connector		Piece		
	E41221	Printhead Cable	1.0*20pin*350mm	Piece		
	P30359	Ink tube snap ring	φ 5 (White)	Piece		
	M20072	Printhead Stabilizing Screw	M3*8mm	Piece		
	P30453	CE4M printhead cable cover		Set		
	M20892	Screw	2.5*10mm	Piece		
Data	E40574	HQ Headboard (6/12)		Piece	√	
	E40578	HQ Headboard (8/16)		Piece		√
	E40556	USB3.0 Mainboard		Piece		
	E40557	USB I/O Board		Piece		
	E40581	CE4 Convert Board		Piece		
	E40576	Encoder & Magnetic Sensor	150dpi HEDS9720	Piece		
	E41202	USB 3.0 Cable(Millionwell)	3.0 1.8m	Piece		
	E41185	16pin Long Flat Cable	4.5m	Piece	√	
	E41176	16pin Long Flat Cable	6m	Piece		√
	E41184	18pin Long Flat Cable	4.5m	Piece	√	
	E41175	18pin Long Flat Cable	6m	Piece		√
	E41112	Optical Fiber	4.5m	Piece	√	
	E41130	Optical Fiber	5.6m	Piece		√
	E40591	Encoder Stripe	150(15*3400)	Piece	√	
E40577	Encoder Stripe	150(15*4500)	Piece		√	
Ink Supply	T60339	coolant	500ml(transparent)	Bottle		
	P30172	Thermostatic water pipe(DZ)	Single ube2.8*5	Meter		
	P30018	φ 3x5mm soft tube	-	Meter		
	E40027	Ink Pump(150ml)	24V 3W	Piece		

E40060	Air pump	Negative pressure vacuum pump	Piece		
E40425	Electric valve	24VDC, power (5.5W) Max. weight: 3kg	Piece		
P30012	Ink Filter (White)	White	Piece		
P30304	Ink Filter (Dish & White)	White	Piece		
P30340	Ink Supply 7 Tubes	4.2*2.8 (High density PE transparent)	Meter	√	
P30325	Ink Supply 5 Tubes	4.2*2.8 (High density PE transparent)	Meter		√
P30367	Ink Subtank 6c	Plastic with spurnwater, float switch	Piece	√	
P30368	Ink Subtank 8c	Plastic with spurnwater, float switch	Piece		√
E40590	DZ-TH 1000W(650W 6A 220V)	DZ-TH 1000W (650W 6A 220V)	Piece		
E40330	Individual cleaning key component	Whole set with button (6)	Set		
E40329	Individual cleaning key component	Whole set with button (4)	Set		
P30381	Tube Connector (Inner Turning)	φ 4	Piece		
P30383	Tube Connector (Inner Turning)	φ 6	Piece		
P30388	T Shape Tube Connector	φ 4	Piece		
P30391	Y Shape Tube Connector	φ 6	Piece		
P30380	Tube Connector (Outer Turning)	φ 4	Piece		
P30385	Tube Plug Connector	Inner Turning	Piece		

Sheet metal

Sheet metal	A10350	Motor Gear	S2M-32Teeth	Piece		
	M20009	Driving Gear	-	Piece		
	M20223	Small Gear (Tower Shape)	-	Piece		
	A10441	Printhead Holder	Toshiba 6 heads	Piece	√	
	A10442	Printhead Holder	Toshiba 8 heads	Piece		√
	M20225	Carriage Bearing	NMB 676ZZ(6*19*6)	Piece		
	M20837	Feeding Gear(CE4M)18		Piece	√	
	M20834	Feeding Gear(CE4M)32	20*3897	Piece		√
	P30412	High-speed mute towline EPS1.8	Length 1.58 + towline head, inner (25*38) , external(35*55)	Piece	√	
	P30409	High-speed mute towline EPS3.2	Length 2.23 + towline head, inner (25*38) , external(35*55)	Piece		√

Electromechanical	E40203	Power Supply Board	WS200-3EAC-247	Piece		
	E40185	AC Servo Motor(silvery)	AMT602V36-1000	Piece		
	E40186	AC Servo Driver (E40185)	AMT806	Piece		
	E41101	Ac Servo Driver (Signal Cable)	X direction line (1H/DB-15P L=1200	Piece		
	E41152	Ac Servo Driver (Power Cable)	2H/E2*2PL=1200(UVW line)	Piece		
	E41151	Ac Servo Driver (Encoder Cable)	2H/DEH-15PL=1200	Piece		
	E40083	Solid voltage regulator	SSVR,220VAC,25A	Piece		
	E40016	Safety Switch	NL5E-32 230V32A	Piece		
	E40074	Temp.Controller	TC-48BD	Piece		
	E40002	Mains filter	FN2010-10-6	Piece		
	E40200	Feeding Take-up Sensor	-	Piece		
	E40528	Feeding Take-up motor	3GN200K (15w)	Piece		
	E40204	LED Lamp (RS-A14B)	DC24V 1W	Piece		
Others	E40537	OMRON X Limit Switch	-	Piece		
	P30165	Lock cloth button	-	Pair		
	M20029	Spring (Encoder Strip)	Stretching	Piece		
	M20659	4x8mm Screw (6angle)		Piece		
	P30085	Synchronous Belt X	S2M-354-15mm	Piece		
	P30047	Synchronous Belt Y	S2M-452-15mm	Piece		

~End~