

AUTO LABEL APPLICATING MACHINE

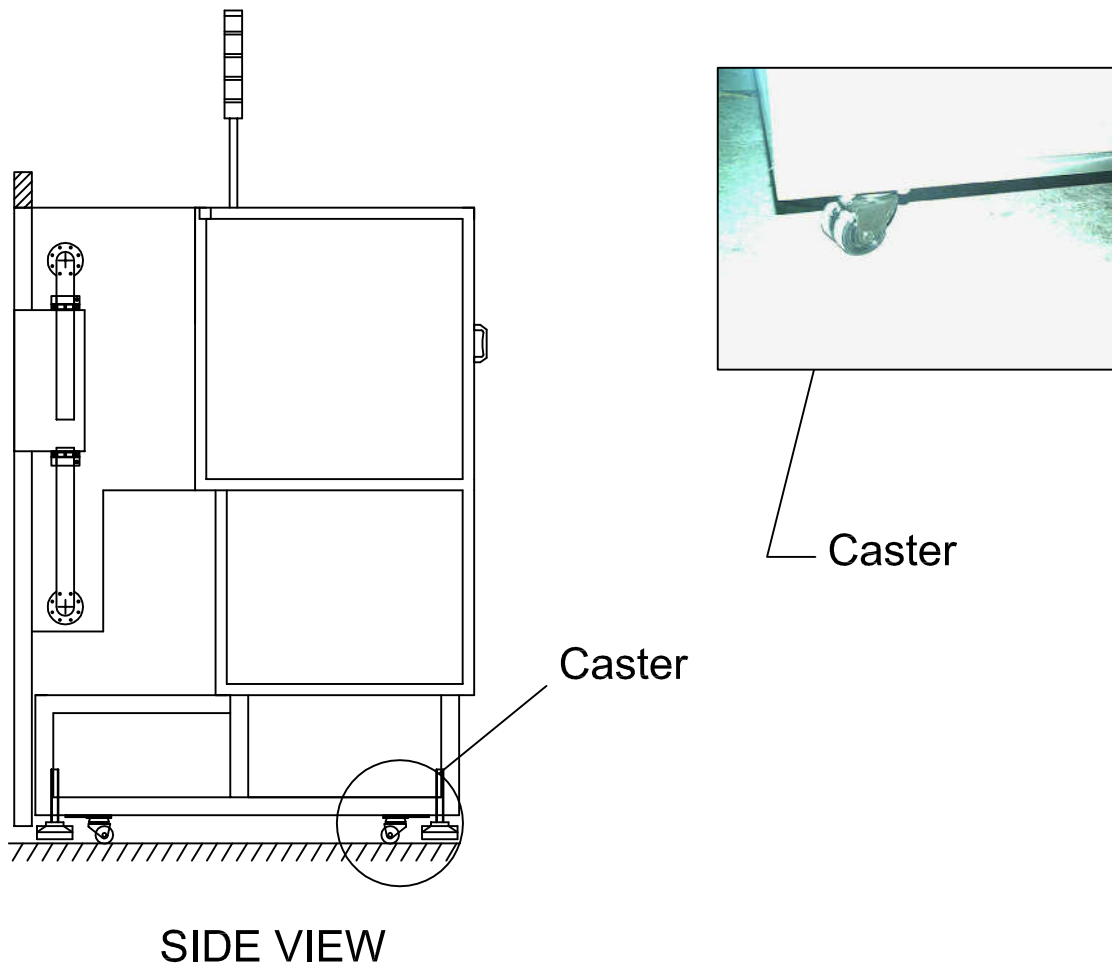
MODEL NO : SL-LX350XL-V2B



1. INSTALLATION

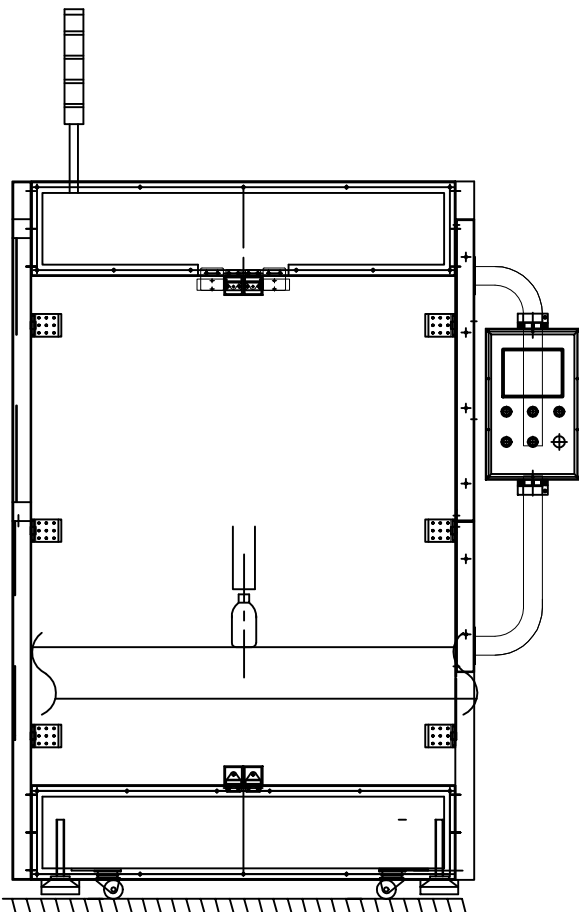
1.1 The preparation for machine installation

- 1.The auto label applying machine model No. LX-350N is 1500 kg weight. There are 4 casters under the machine. It can be moved easily.
- 2.It is required at least 3 persons for machine moving.
- 3.The workers should wear protecting clothing such as safety helmet, protecting shoes and gloves etc.
- 4.The machine can be only moved on the smooth place. It is possible to fall down if move on the rough or massy surface.
- 5.If it needs to use lifter, it will be required for 1.25 tons capacity. Also a licenced operator is requested.

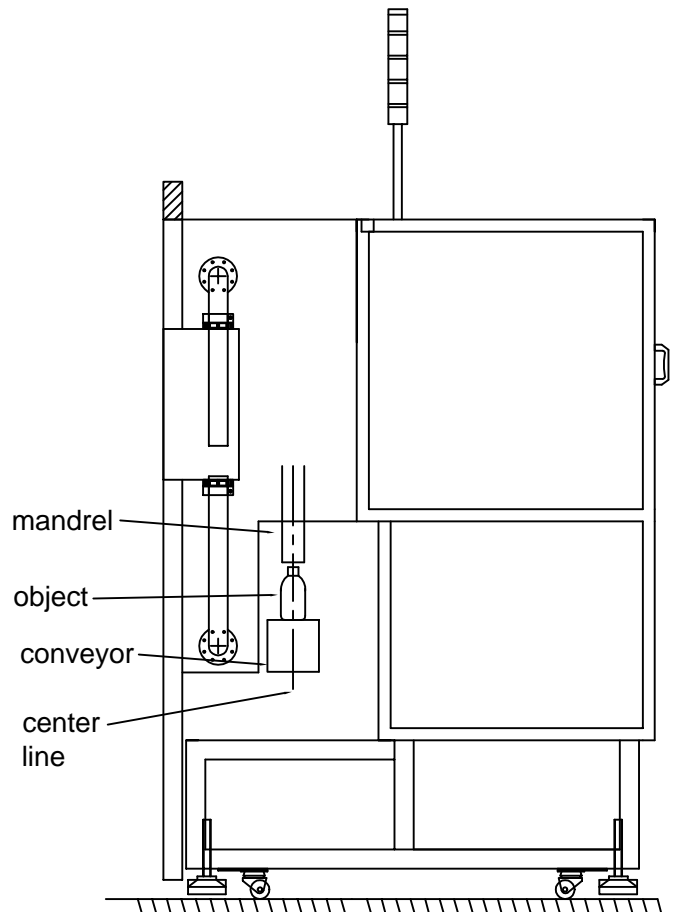


1.2 The position of installation

1. When the machine is set on the required location, please take off the covering plastic film.
2. To adjust correctly for the applying position and must line-up the former on the center line of conveyor.

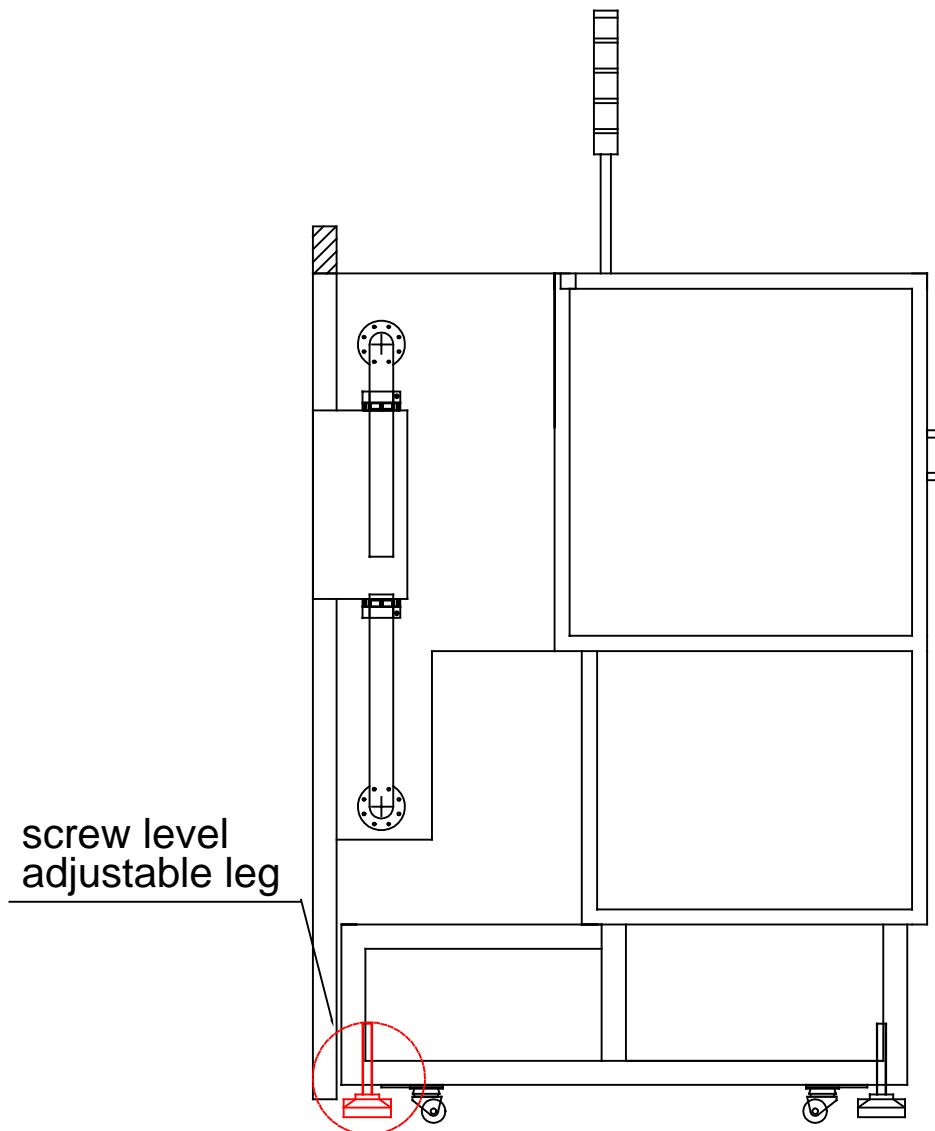


FRONT VIEW



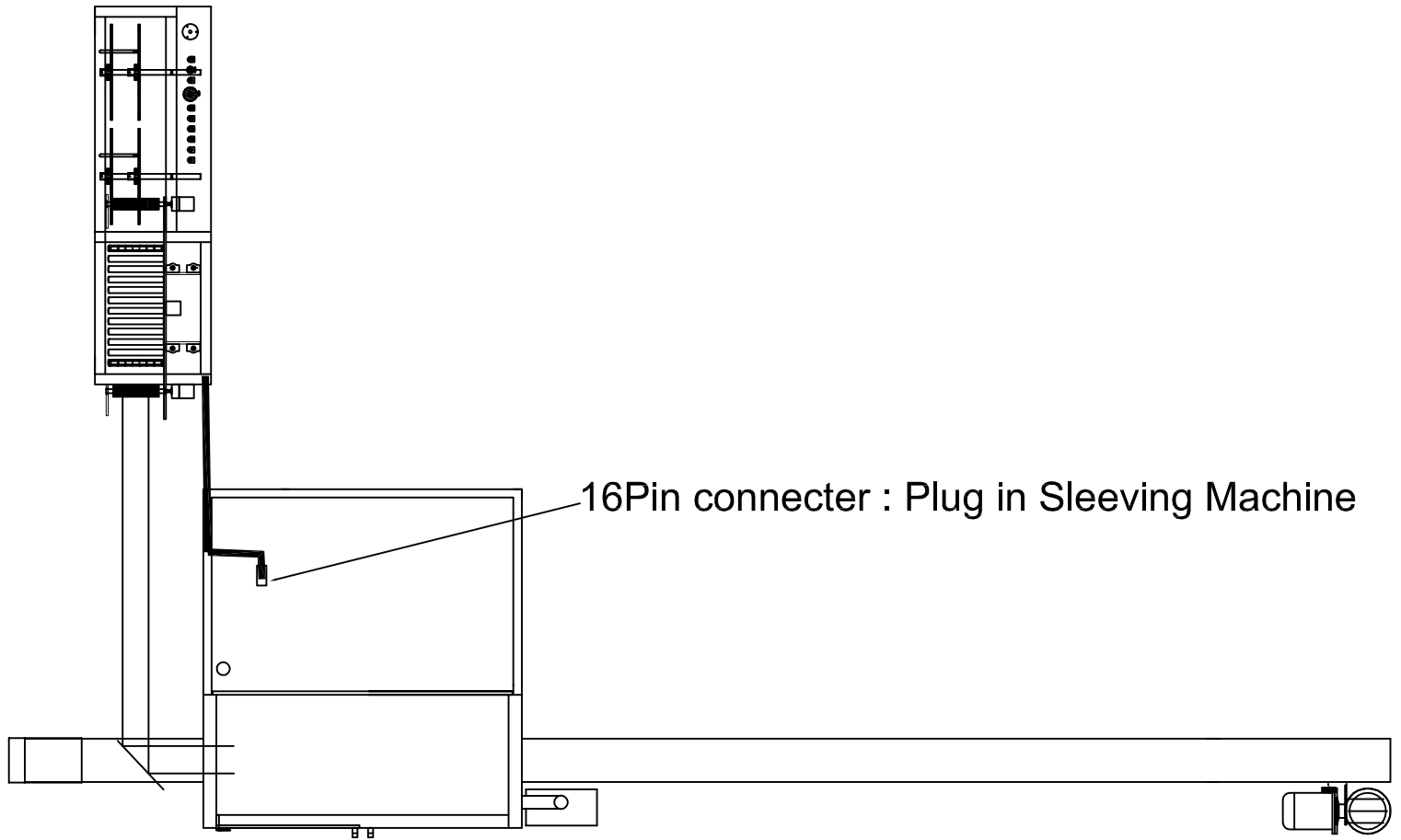
SIDE VIEW

3. Using the wrench to adjust the screw at the legs to level the machine reach to demanding height.
4. If it is necessary, the expanding screws may be adopted to fix the machine.

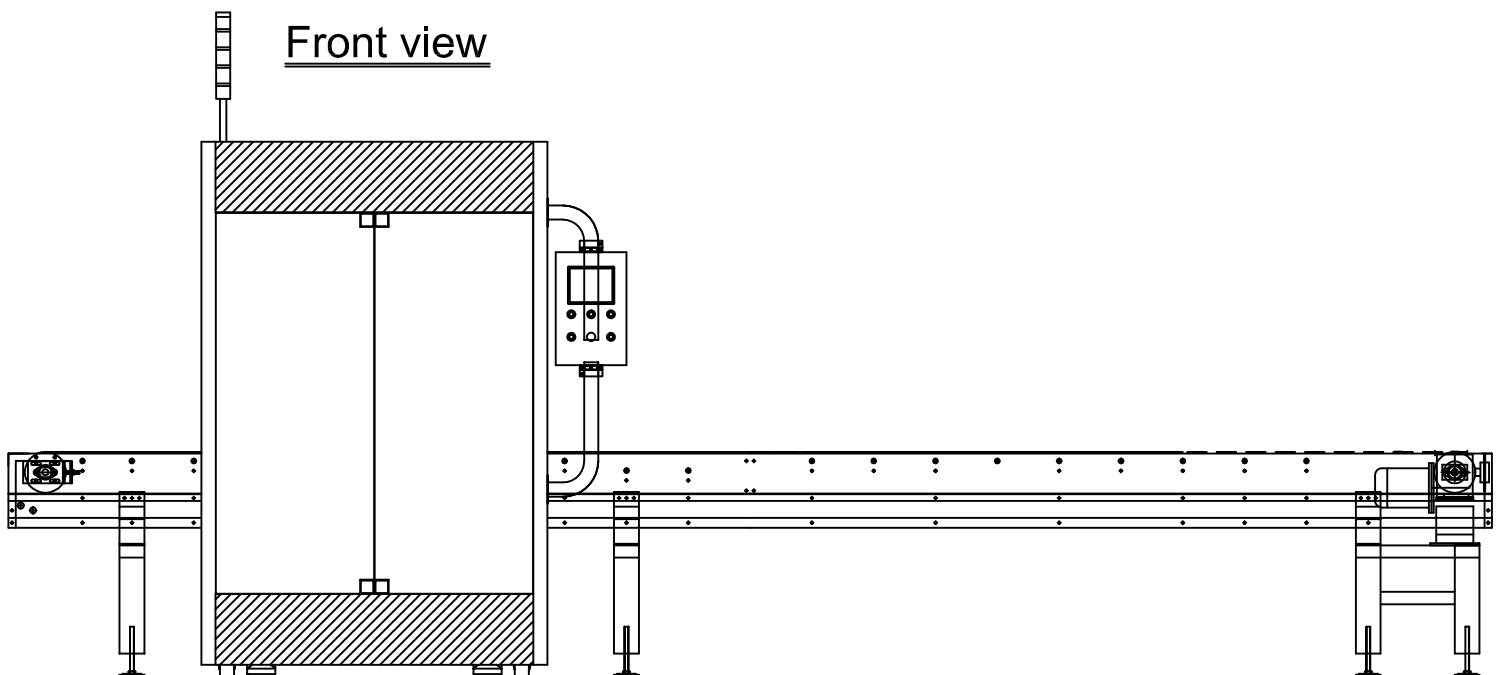


6. Completing the installation.

Top view



Front view



1.3 The requirement of electricity & air compression

1. The power supply is required for 3 phase 480V 50/60 HZ.
2. The air compression is necessary. The 5.5kg/square cm (80 psi) pressure is required if any attached accessories demanding the air compression.
3. The ground wire must be wired.

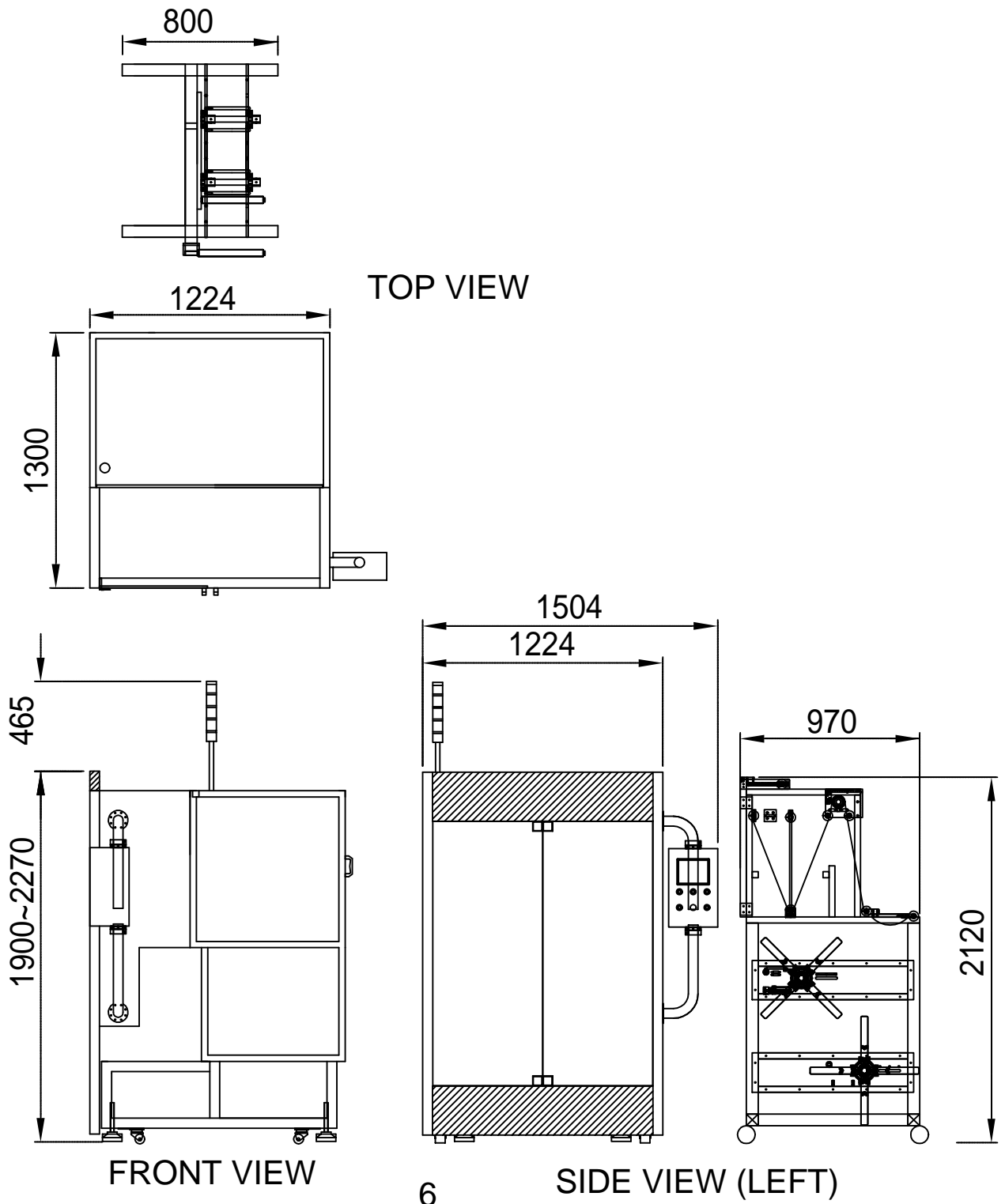
2. THE COMPONENTS OF MACHINE

2.1 GENERAL INSTRUCTIONS

1. Preface

Thank you to purchase our product. By this manual, we would like to provide you the standard operating procedures and the maintenance.

2. Dimensions UNIT:mm



3. Specification & Capacity

POWER : AC 3 phase 220V, 50/60HZ

MOTOR : 25W X2, 40W X1, 400W X2, 2000W X2, 750W X1

LAY FLAT WIDTH : 70-220 m/m

LENGTH : 45-200 m/m

THICKNESS : 0.035-0.07 m/m

APPLIED MATERIAL : OPS, PVC, PET

SPEED : MAX .500 BOTTLE/MIN.

** Speed will be varied with shape of bottles, types, thickness and length of shinkable films, the accurate speed has to be measured in actual situation.

** Reference formula : $(\text{object's circumference}) / 2 + (3-5\text{m/m})$.

2.2 THE NOTICES FOR MACHINE TURNING ON/OFF

1. All the operators who should study this manual thoroughly before operating the machine.
If those operators do not follow the rules to run the machine leading to injury, NAFM won't be responsible for the wounded.
2. Please check following items before turning on the machine.
 - 2.1 To check the attaching accessories on the machine.
 - 2.2 To make sure the conveyor table is clean.
 - 2.3 To roll the feeding & applicating rollers by hand, making sure all parts run smooth.
 - 2.4 To check the plastic tube, which has no jam.
 - 2.5 Do not place the tools on the machine to avoid the danger of rolling in.
 - 2.6 To check the emergency button on standing by position in anytime.
3. To ensure safety, do not open the machine cover when the machine is running.
4. There is a safety device which is set on machine.
When the machine is running, it will stop immediately and start alarm if open the door.
5. The machine must be stopped running for adjustment and maintenance.
6. The operator should pay attention for the caution marks and follow the rules for safe operating.
7. The machine should be operated or maintained by the experlenced operator or technician.
8. It would be dangerous to operate the machine by a tyro.
9. To prevent from danger, in any case, never pull out & turn off the safety switch when the machine is electrified. Also, keep off your hands & any tools in the scope of cutting zone.
10. All operators must strictly observe the above guild line and keep the machine clean & well-run.

WARNING SIGNS



Caution sign, be alert.



Grounded sign, Notice here is the grounded location.
Please ground the earth cable to Class-3 (lower than 100 Ω).
Incomplete grounding connection may lead to electric shock.



Electrical hazard, electrical danger if touched.
Only the trained electrician can uncover the electric panel or box.



Cut warning.
In any case, do not place your hands or any object on the sealing or cutting zone. Shut down the machine before doing the maintenance, parts replacing or trouble shooting in these zones.



Pinch warning.
Do not put your hands or any object on the moving mechanism. Shut down the machine before doing the maintenance, repair or adjustment.



Crush hazard.
Do not put your hands or any object on the moving mechanism. Shut down the machine before doing the maintenance, repair or adjustment.

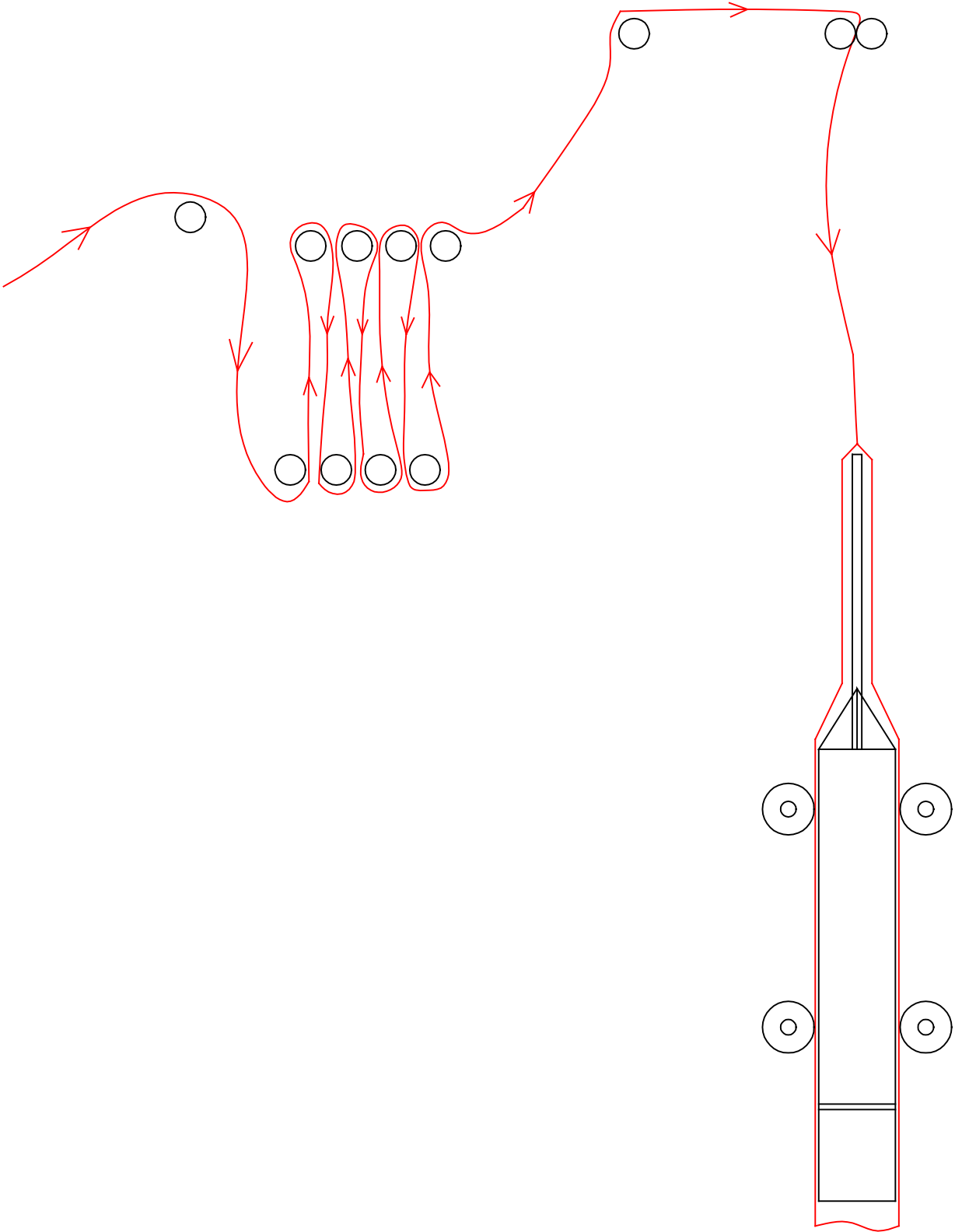


High temperature warning.
Do not touch or close to the heating source to prevent from getting burn. Proceed any maintenance only when the temperature of heater or heating source cool down to room temperature.



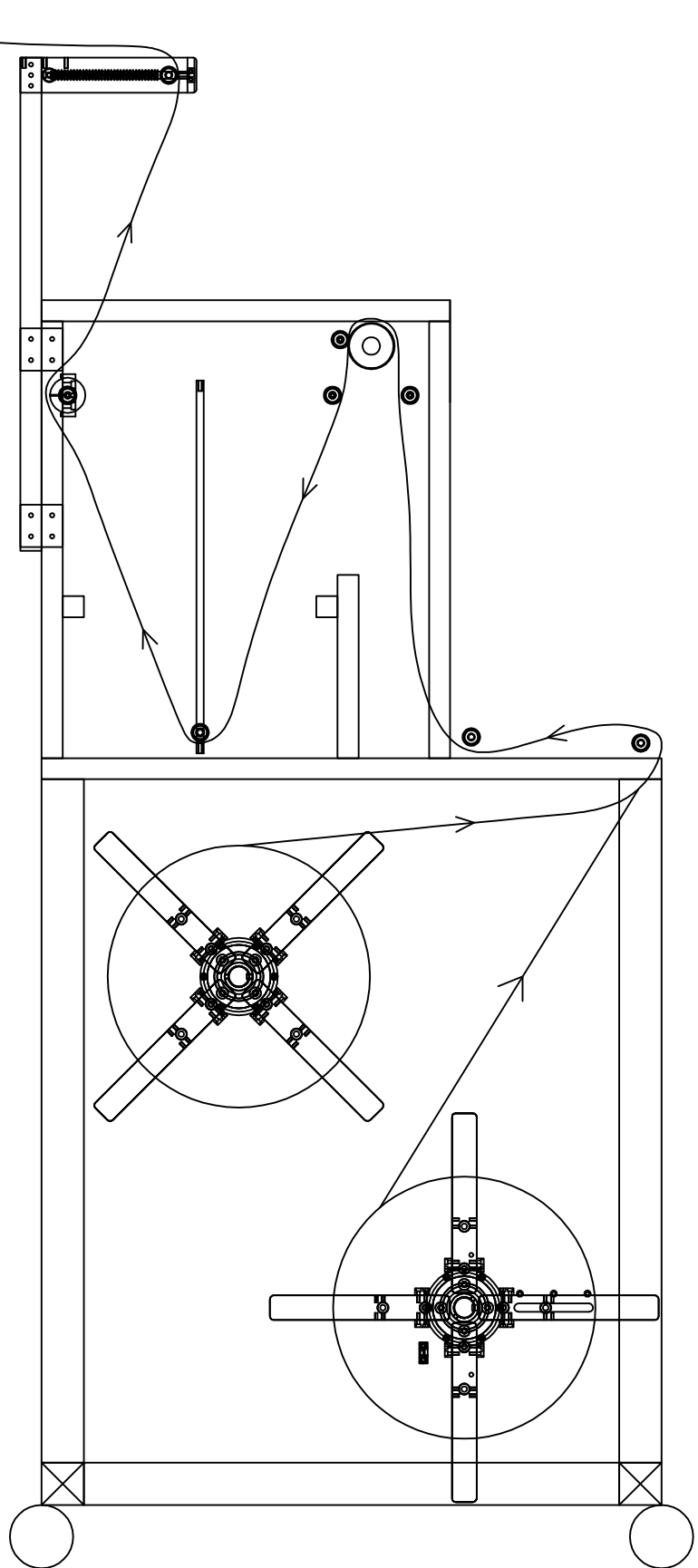
Moisture warning, keep dry.

3. Film fitting



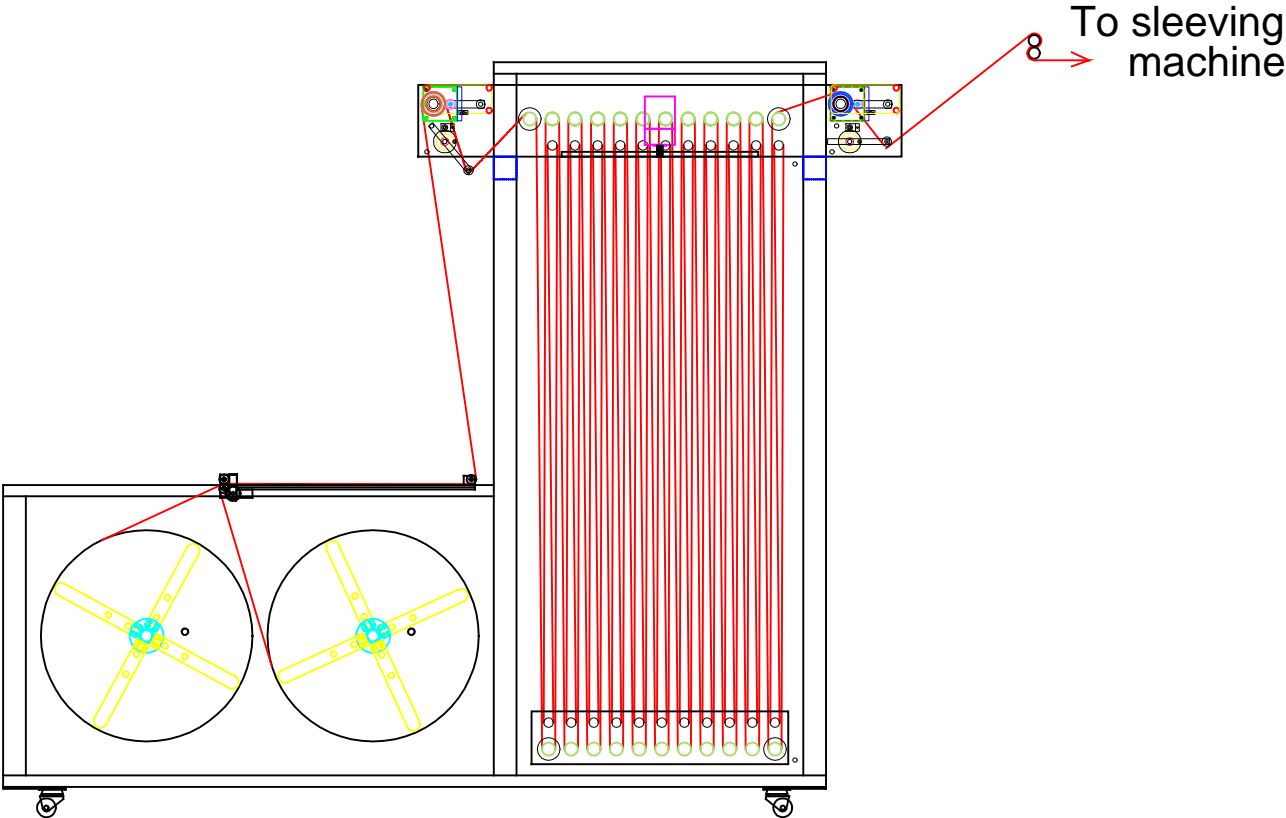
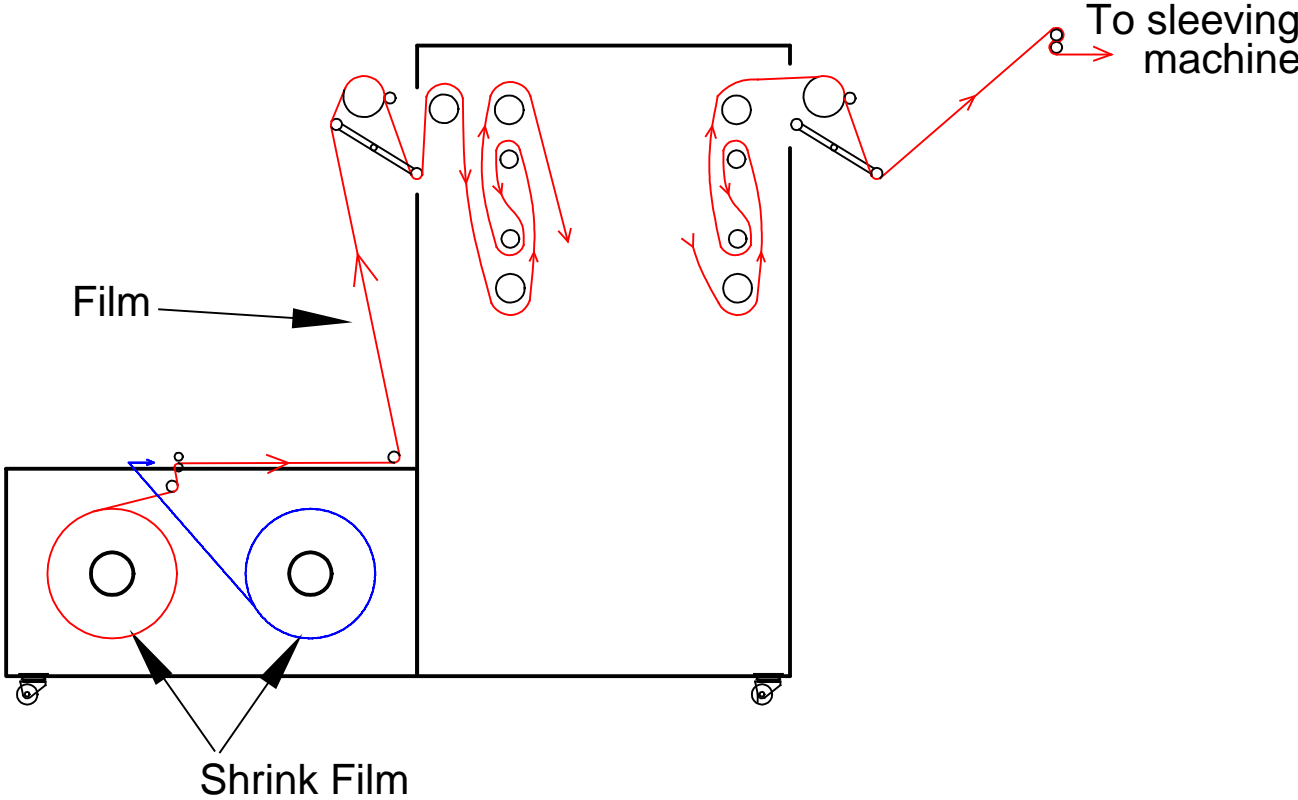
Film supply device (option)

To sleever
LX350N



Option device

Film accumulator model : AUS-300



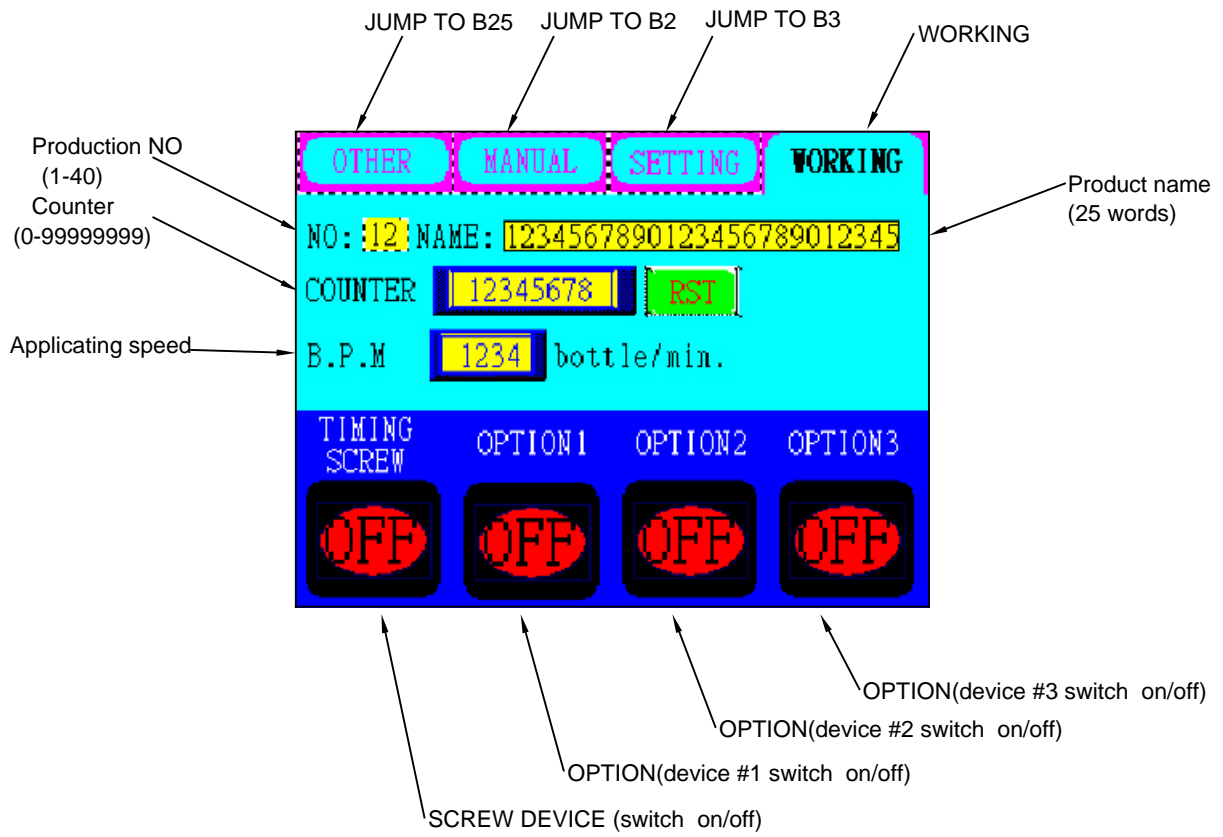
4. The touch panel

Machine startup - first page (B6)



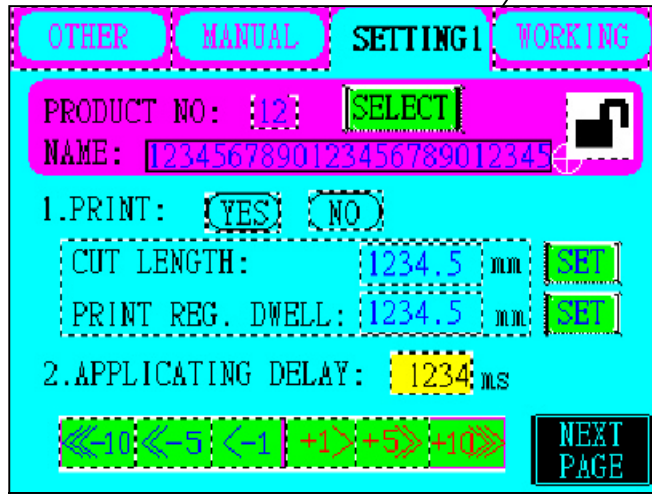
After machine startup, it will display this page .
Press "FAULT RESET" button, cutter will positioning

DRAWING:B1 (WORKING SCREEN)



DROWING:B3 (SETTING SCREEN)

Press the "SELECT" key, will go into drawing B113 with group option.



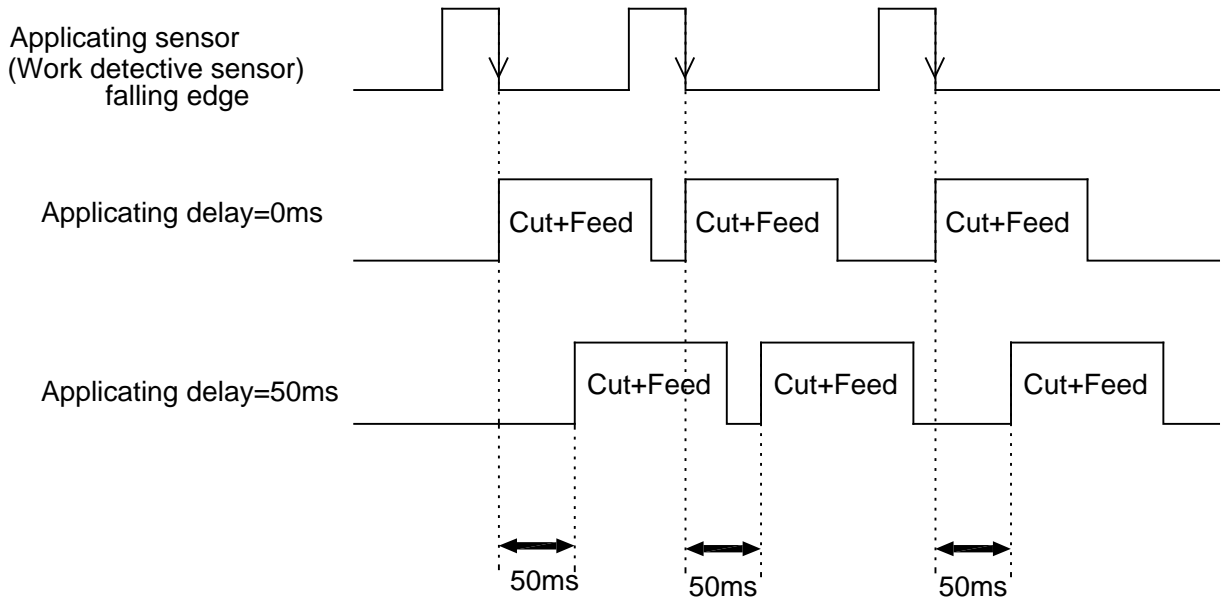
Only press on to this sign for 3 seconds. You can change lock/unlock positions. Details can not be corrected at the locked position.

PRINT FUNCTION

Press this switch for set up figures for cut length of film.

Press this switch for set up figures for print reg. dwell.

Jump to B50



1. Without using the print reading sensor

a. Press "SETTING" to go to the setting screen

b. PRINT set "NO".

c. Setting the cut length.

Press "SET", the keypad will appear.

Input the digits.

EX. 100.0

d. Press "MANUAL" to go to the manual screen

e. Press "CYCLE" , test run the machine to check is it working according with the set up was planned or not ?

(Must test run at lease 3 time to check the label is it being cut ok ?)

f. Press "START" button.

g. Test run with the actual object being packed, adjust the work detective sensor's position to aim the label to insert to the objects perfectly.

2. With using the print reading sensor

a. Press "SETTING" to go to the setting screen

b. PRINT set "YES"

c. Setting the cut length.

Measurement the frame length by ruler, then key in the data.

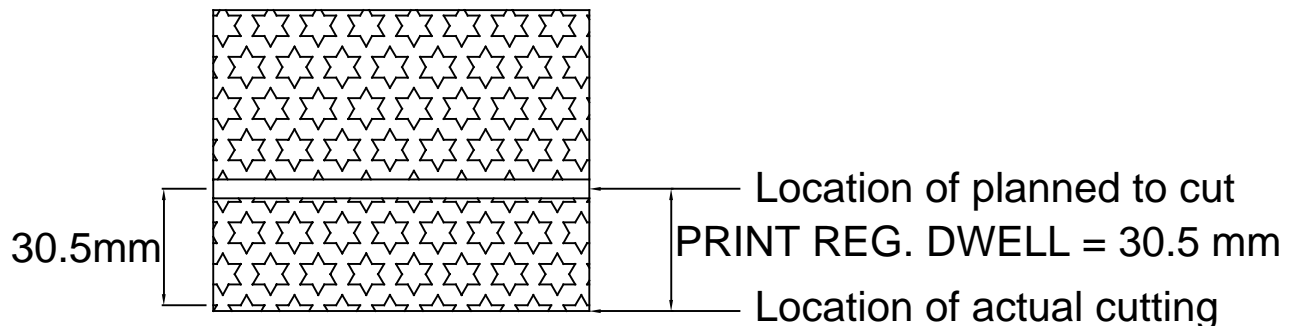
Press "SET", the keypad will appear.

d. Set the PRINT REG. DWELL TO "0".

e. Press "MANUAL" to go to the manual screen.

f. Press "CYCLE", test run the machine to check is it working according with the set up was planned or not ?

(Must test run at least 3 times to check the label is it being cut ok ?)



g. Press "SETTING" to go to the setting screen

h. Modify the PRINT REG. DWELL setting.

PRINT REG. DWELL = 30.5 mm

i. Press "START" button.

j. Test run with the actual object being packed, adjust the work detective sensor's position to aim the label to insert to the objects perfectly.

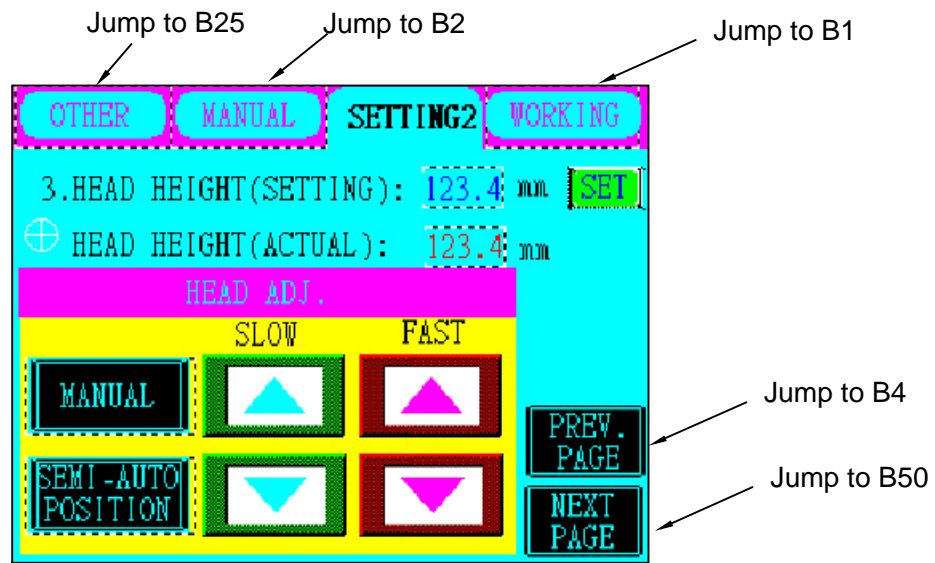
DRAWING : B133 (PRODUCT SELECTION SCREEN)



Only press on to this sign for 3 seconds.
You can change lock/unlock positions.Details can not be corrected at the locked position.

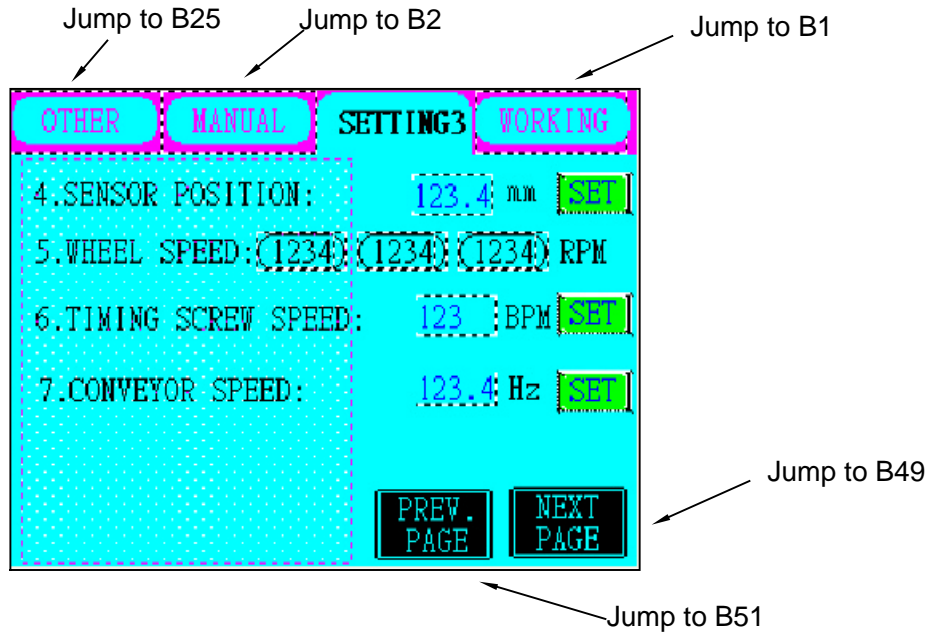
- 1.Press P1 key for the first to fifth group.
Press P2 key for the sixth to tenth group.
As shown above,we can store 40 group.
- 2.Press SELECT key,you can more these material to the working area.
- 3.Press RENAME key will automatically show key pad.You can then make changes to names for the group.
- 4.Press EXIT key ,verity the choices and return to the B3 setup page.

DRAWING : B49



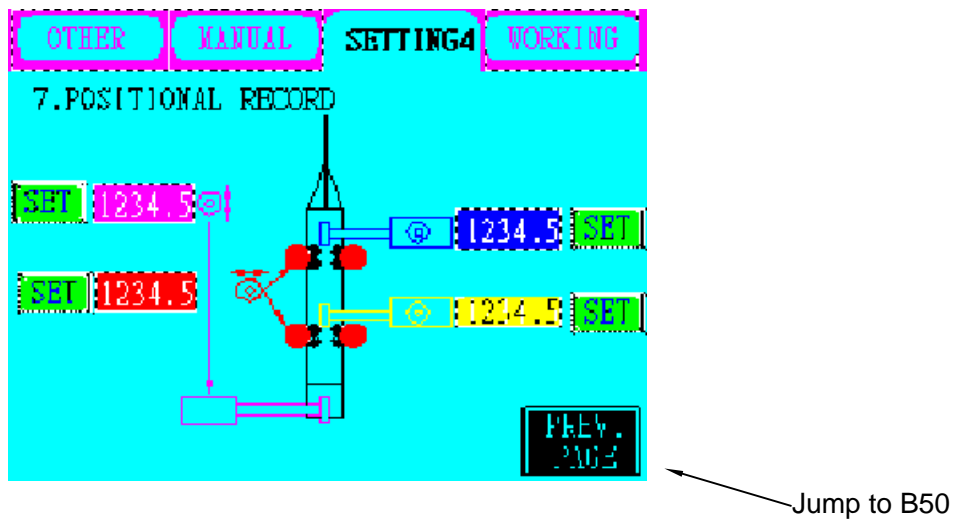
- 1.Press the SET key ,you can setup the hight of the machine head.
- 2.Press the MANUAL key.Then press the ▲ ▼ key,you can adjust the machine head with no restrictions.
- 3.Press SEMI-AUTO POSITION key.Then press the ▲ ▼ key.
The machine head automatically adjusts the machine head and stops.

DRAWING : B50



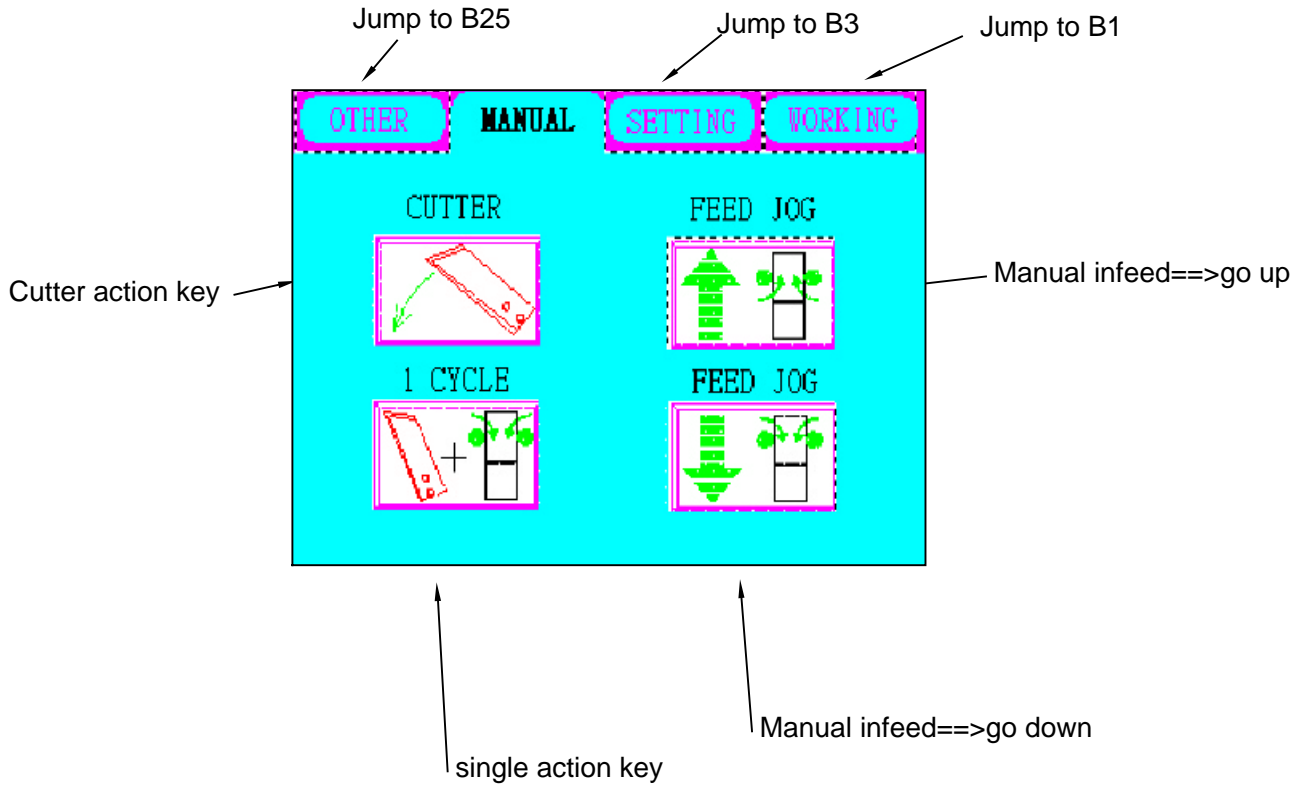
- NO.4 : Only make records and display functions.
- NO.5 : Can choose speed with applying wheel.
- NO.6 :Can adjust speed of timing screw motor.
- NO.7 :Only make records and display functions.

DRAWING : B51

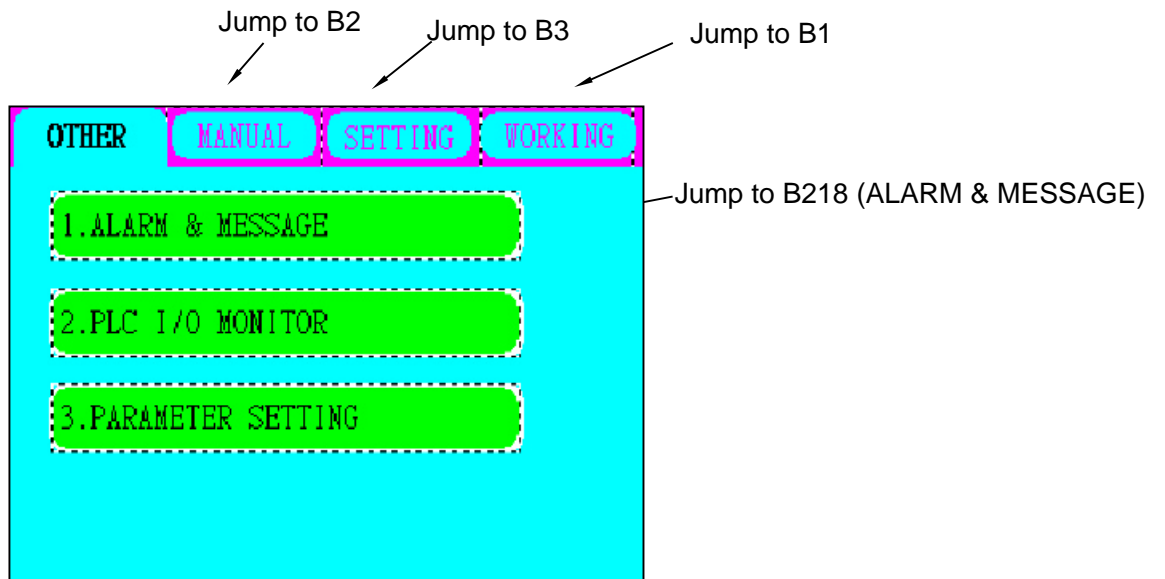


- NO.7 :Only make records and display functions.

DRAWING : B2 (MANUAL)



DRAWING : B25 (OTHERS)



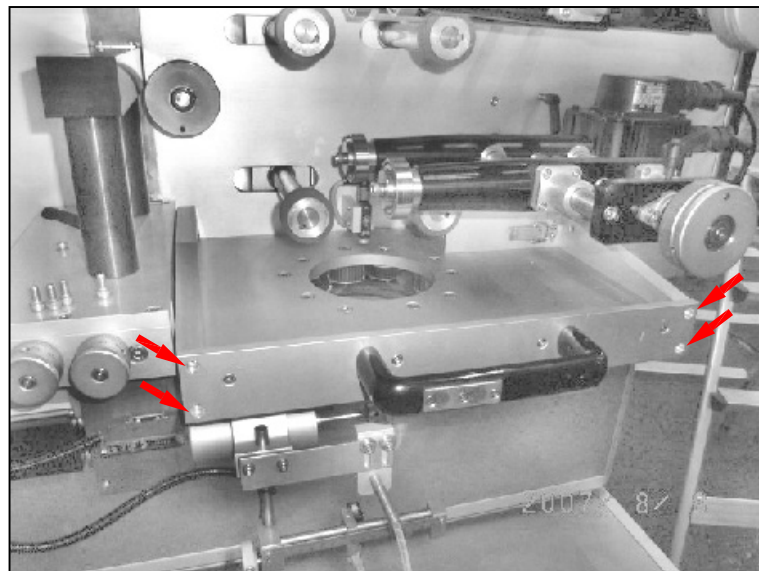
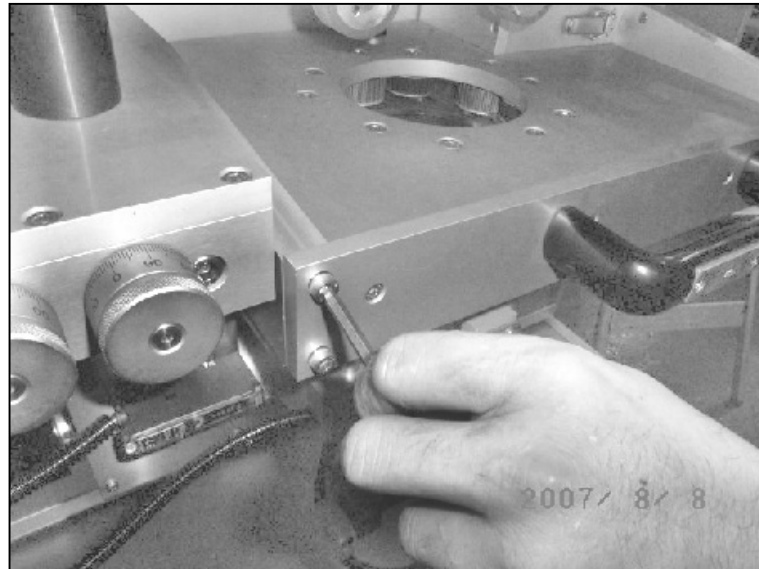
DRAWING : B218 (ALARM & MESSAGE)



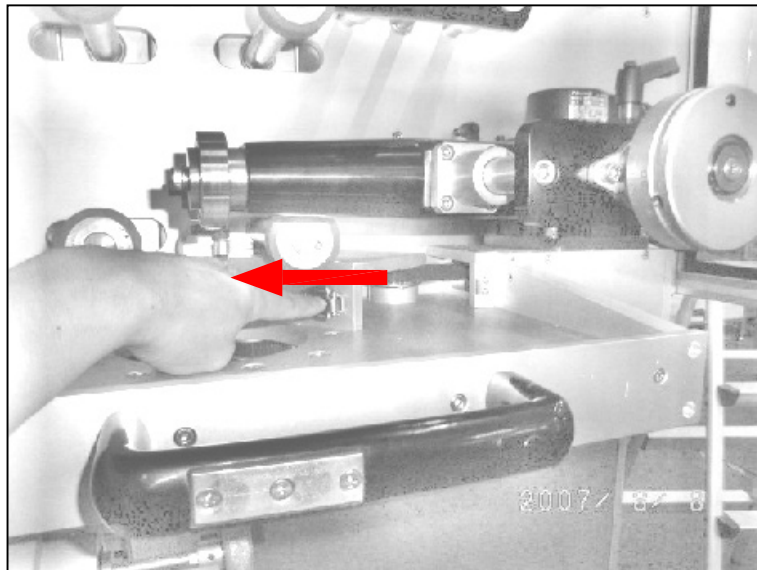
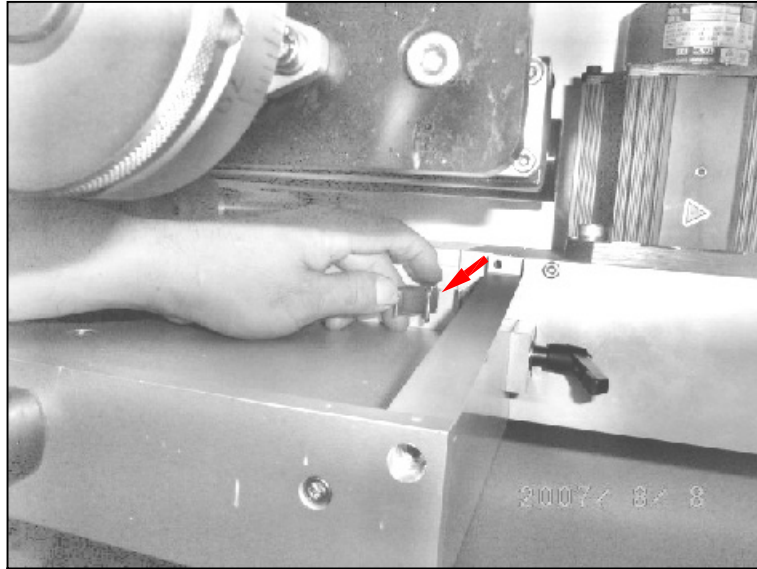
If "Low film" appears on display, please press clear key.
The message will then be removed.

5.1 Change the cutter

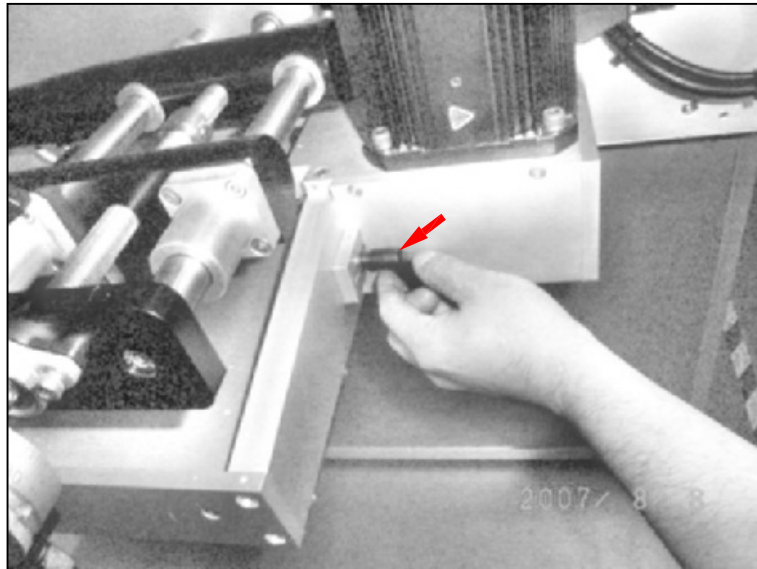
5.1.1 Remove 4 screws



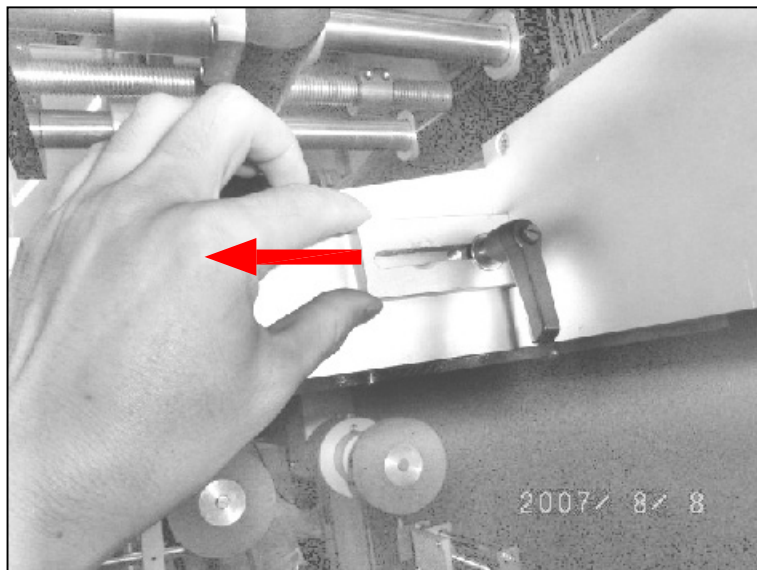
5.1.2 Unbar the loop



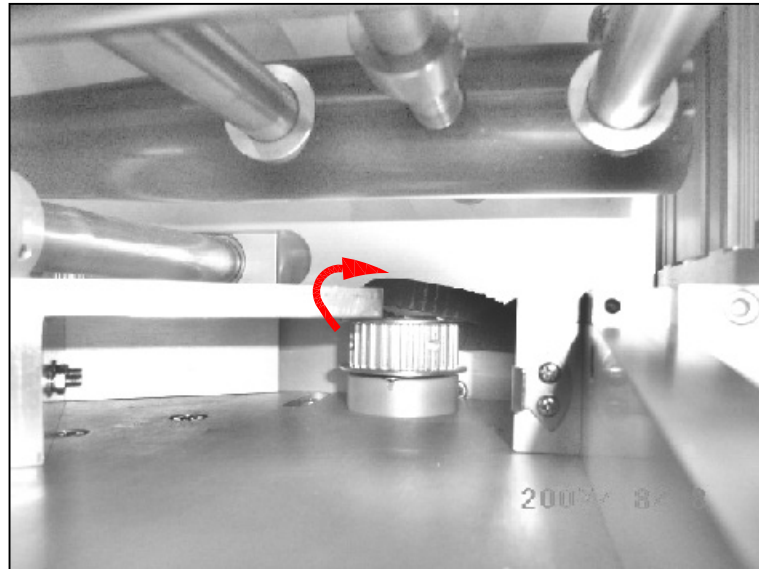
5.1.3 Loose the handle by rotating the handle counter to clockwise direction, just loose it, don't have to remove the handle.



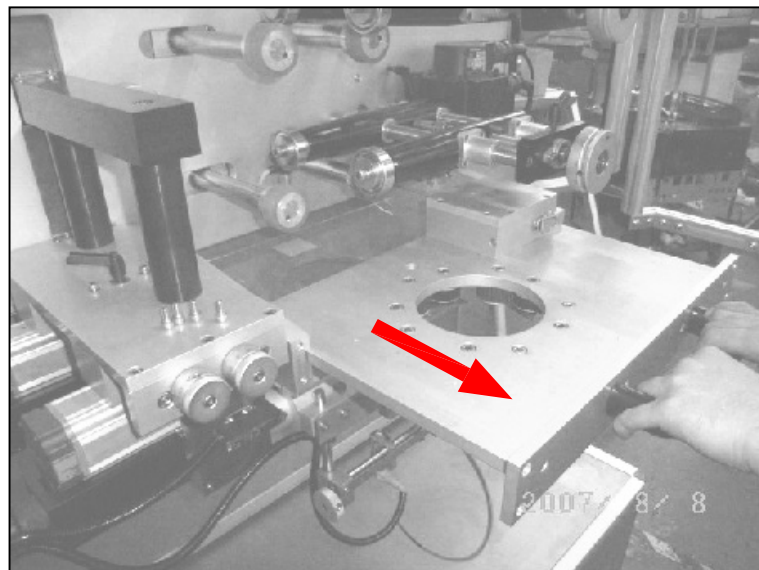
5.1.4 Pull out the aluminum cube.



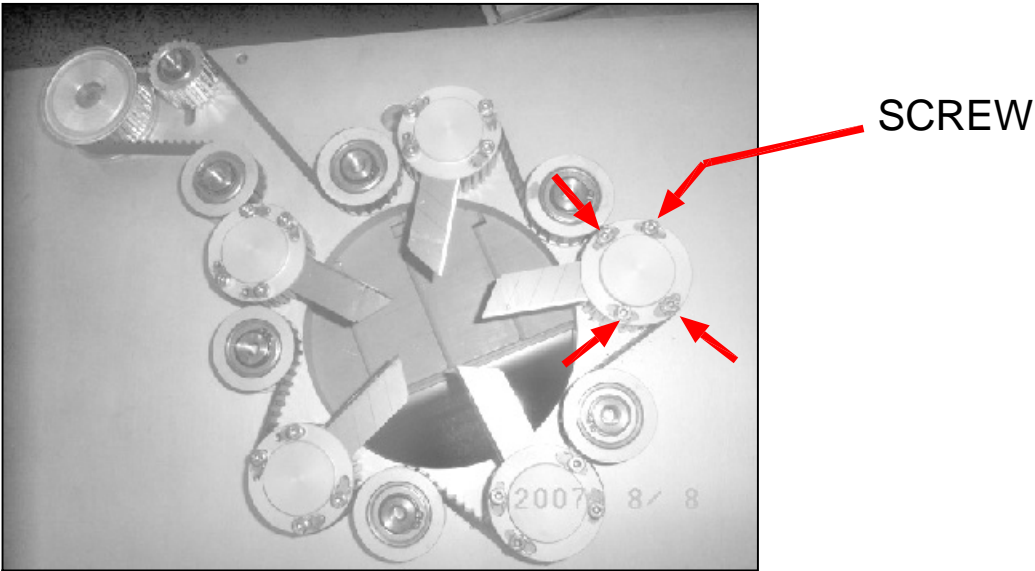
5.1.5 Take off the belt.



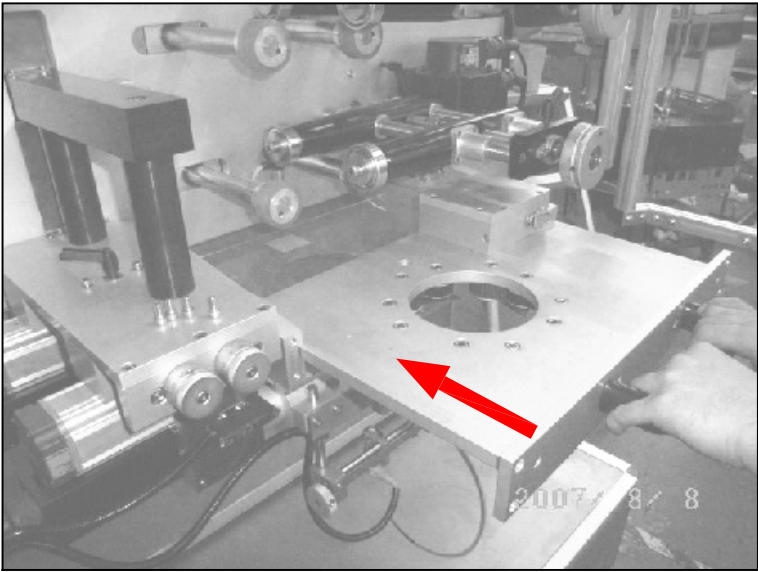
5.1.6 Pull out the cutter plate



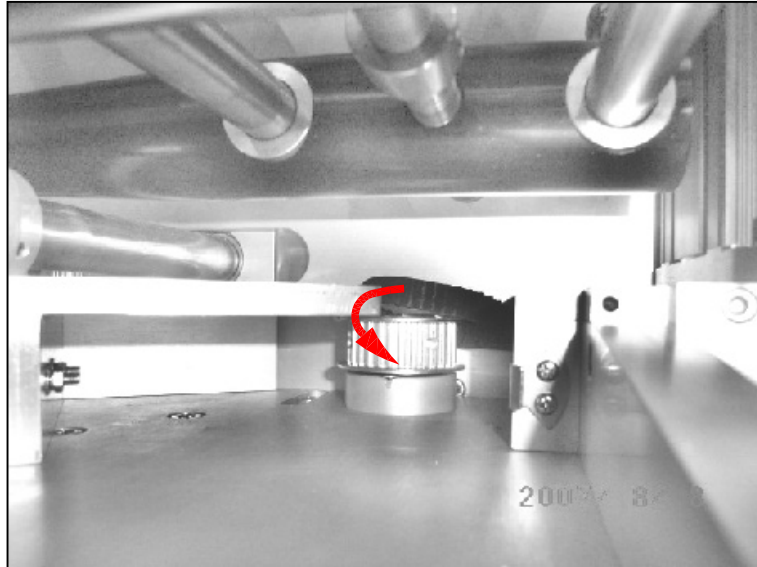
5.1.7 Loosen the screws, and remove the old cutter, replace the new cutter and rotate the screws tightly.



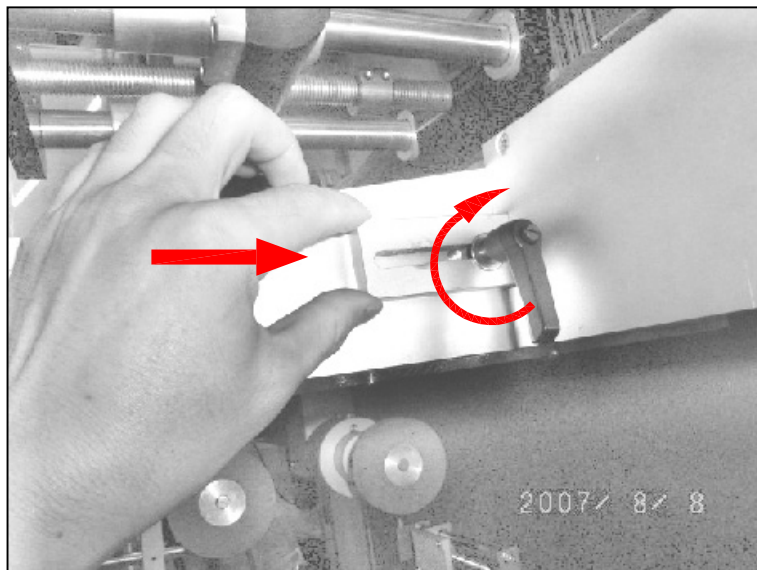
5.1.8 After the cutter amending, plug in the cutter plate.



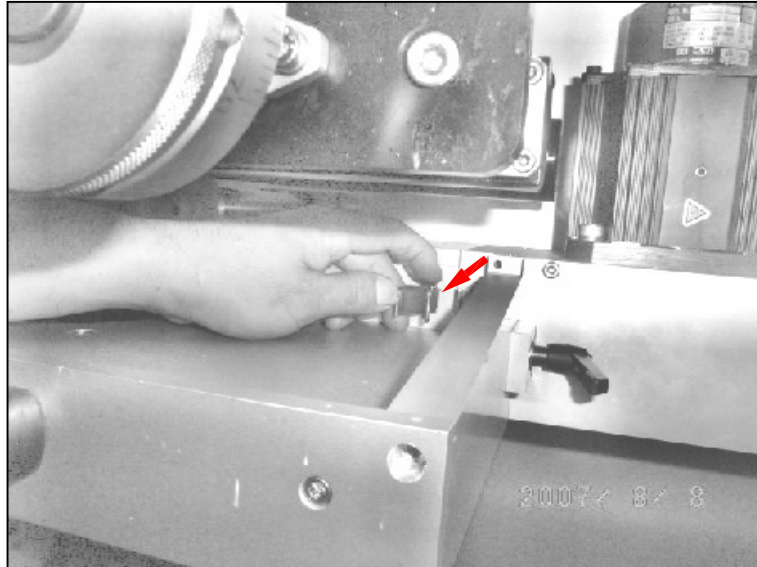
5.1.9 Put the belt into the timing pulley



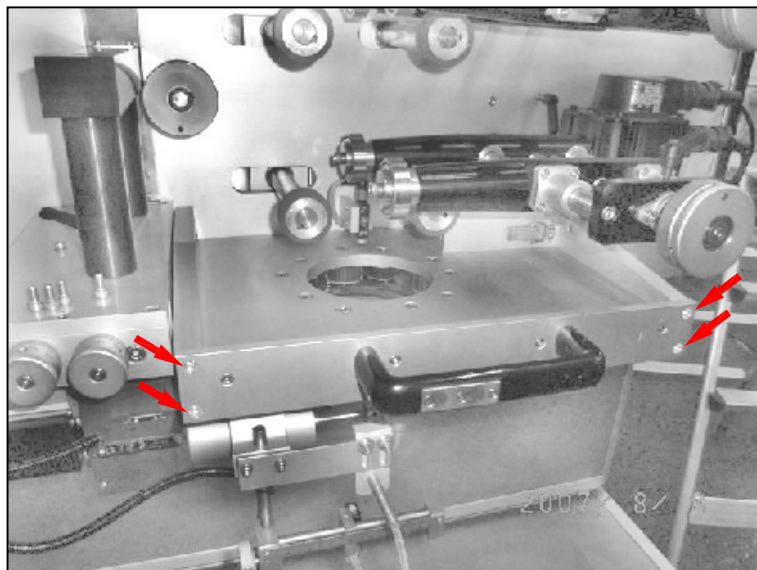
5.1.9 Pull in the aluminum cube and rotate the handle tightly to counter clockwise direction.



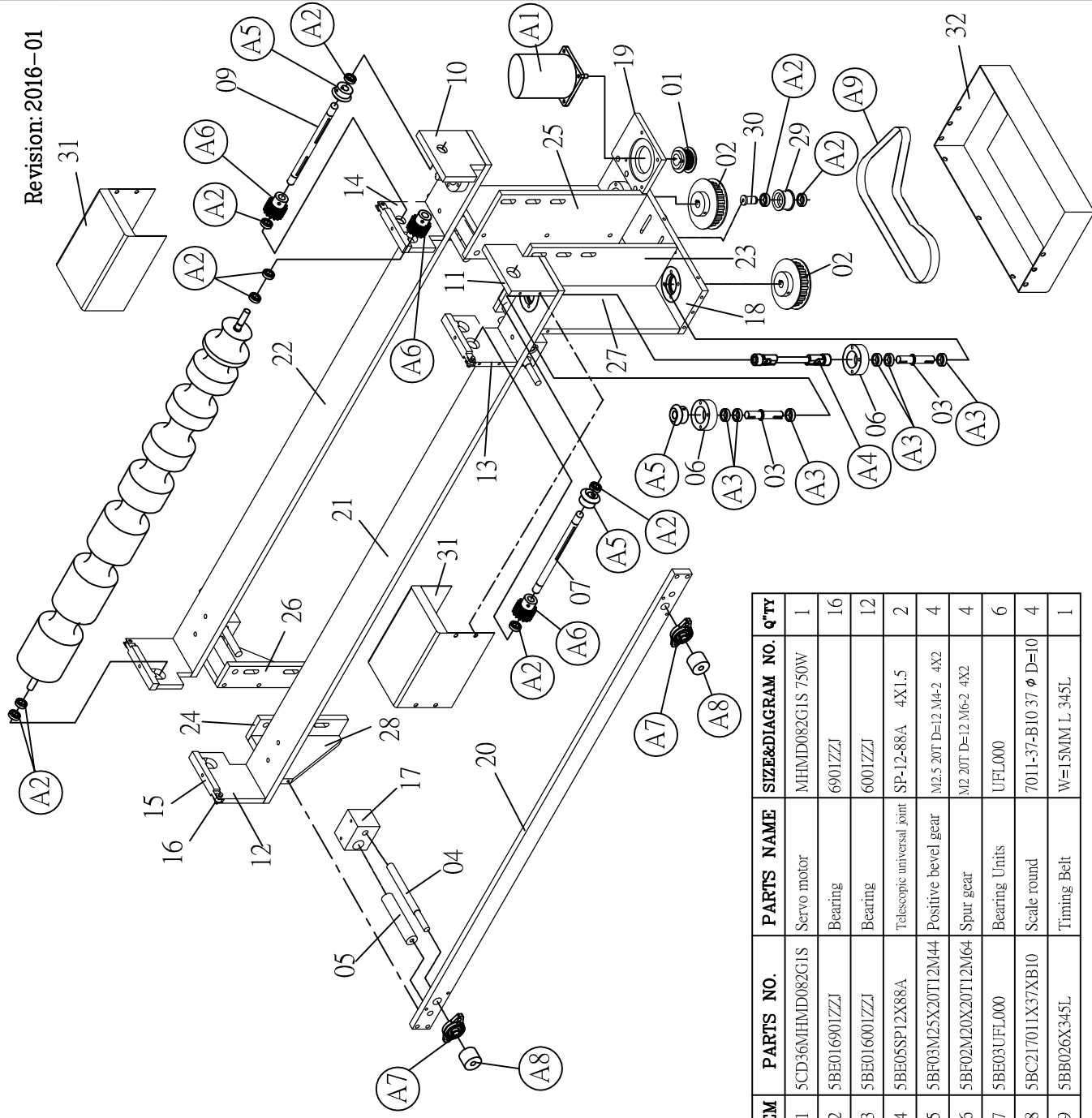
5.1.10 To bar the loop



5.1.11 Turn the 4 screws tightly Complete the cutter amending.



Revision: 2016-01



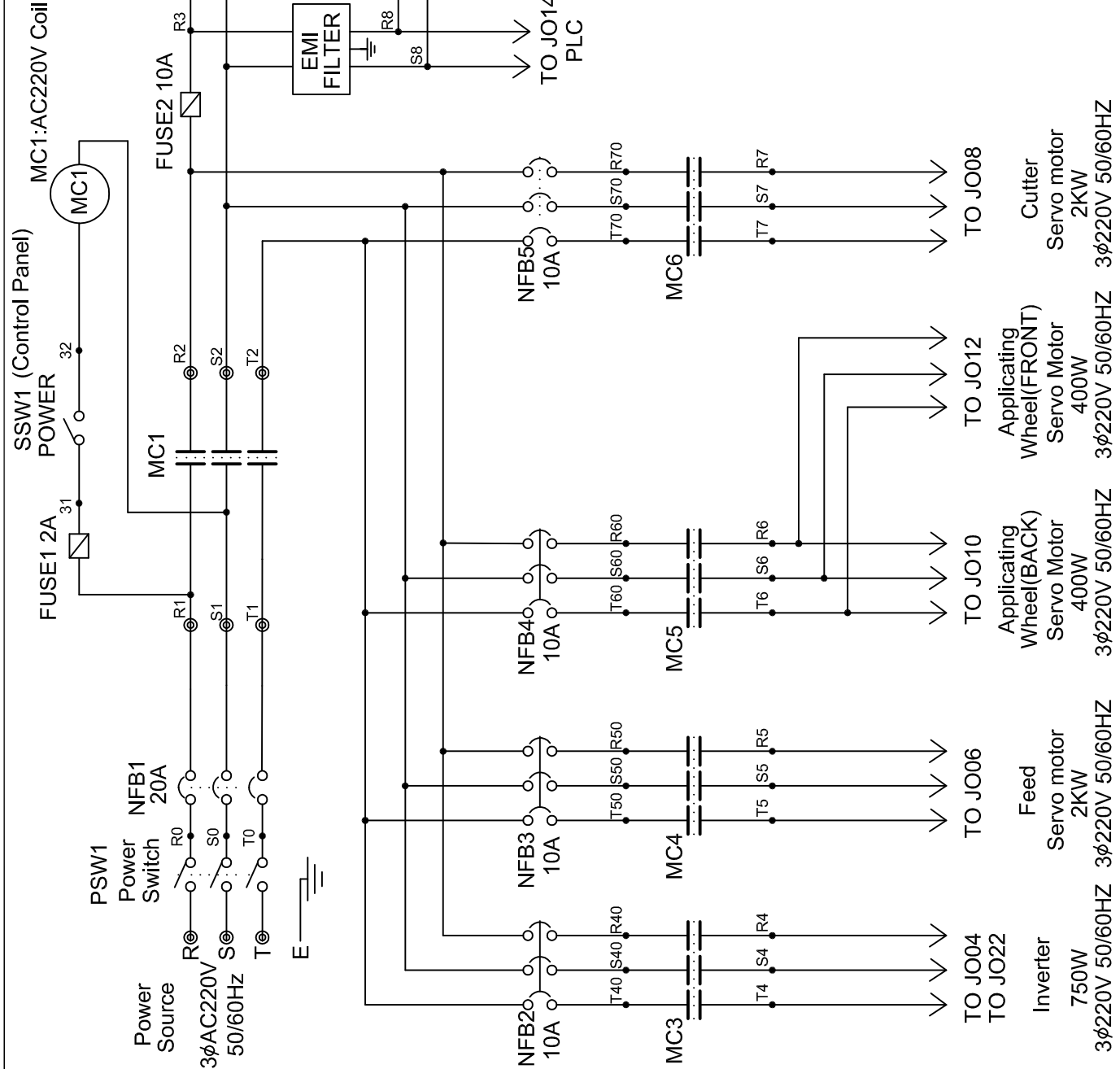
ITEM	PARTS NO.	PARTS NAME	SIZE&DIAGRAM NO.	Q'TY
01	5BF0517L12T19M56	Timing wheel	LA150XL2-LC01	1
02	5BF0517L24T12M54	Timing wheel	LA150XL2-LC02	2
03		Heart shaft	LA150XL2-LM01	4
04		Width adjustment lever	LA150XL2-LM02	4
05		Guide rod	LA150XL2-LM03	4
06		Axial holder	LA150XL2-LM04	4
07		Heart shaft-1	LA150XL2-LM05	1
08				
09		Heart shaft-2	LA150XL2-LM07	1
10		Fixing plate	LA150XL2-LM08	1
11		Fixing plate-1	LA150XL2-LM09	1
12		Fixing plate-2	LA150XL2-LM10	2
13		Fixing plate-3	LA150XL2-LM11	1
14		Fixing plate-4	LA150XL2-LM12	1
15		Fixed block	LA150XL2-LM13	4
16		Axial	LA150XL2-LM14	4
17		Screw adjustment block	LA150XL2-LM15	4
18		Timing pulley retainer	LA150XL2-LM16	1
19		Motor fixing plate	LA150XL2-LM17	1
20		Handwheel fixing plate	LA150XL2-LM18	2
21		Adjusting plate-1	LA150XL2-LM19	1
22		Adjusting plate-2	LA150XL2-LM20	1
23		Adjust fixed plate	LA150XL2-LM21	1
24		Adjust fixed plate-1	LA150XL2-LM22	1
25		Adjust fixed plate-3	LA150XL2-LM23	1
26		Adjust fixed plate-4	LA150XL2-LM24	1
27		Fixing plate-1	LA150XL2-LM25	2
28		Fixing plate-2	LA150XL2-LM26	2
29		Packing wheel	LA150XL2-LM27	2
30		Axial	LA150XL2-LM28	2
31		Shield	LA150XL2-LP01	2
32		Shield-3	LA150XL2-LP02	1

ITEM	PARTS NO.	PARTS NAME	SIZE&DIAGRAM NO.	Q'TY
A1	5CD36VHMID082GIS	Servo motor	MHMD082GIS 750W	1
A2	5BE016901ZZJ	Bearing	6901ZZJ	16
A3	5BE016001ZZJ	Bearing	6001ZZJ	12
A4	5BE0SP12X88A	Telescopic universal joint	SP-12-88A 4X1.5	2
A5	5BF03M25X20T12M44	Positive bevel gear	M2.5 20T D=12 M4-2 4X2	4
A6	5BF02N20X20T12M64	Spur gear	M2 20T D=12 M6-2 4X2	4
A7	5BE03UFL000	Bearing Units	UFL000	6
A8	5BC217011X37XB10	Scale round	7011-37-B10 37 φ D=10	4
A9	5BB026X345L	Timing Belt	W=15MM L 345L	1

Drawing name	SCREW	Units	Scale	Date	Check	Design	Draw
Drawing No		MM		2016.09.22			Sunny

Design change note			
Mark	Description	Modifier	Date
①			-
②			-

Revision: 2012-01
 AC Operating Power
 220V 50/60HZ



Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J001	LX350N	07.21.2017			ODAN

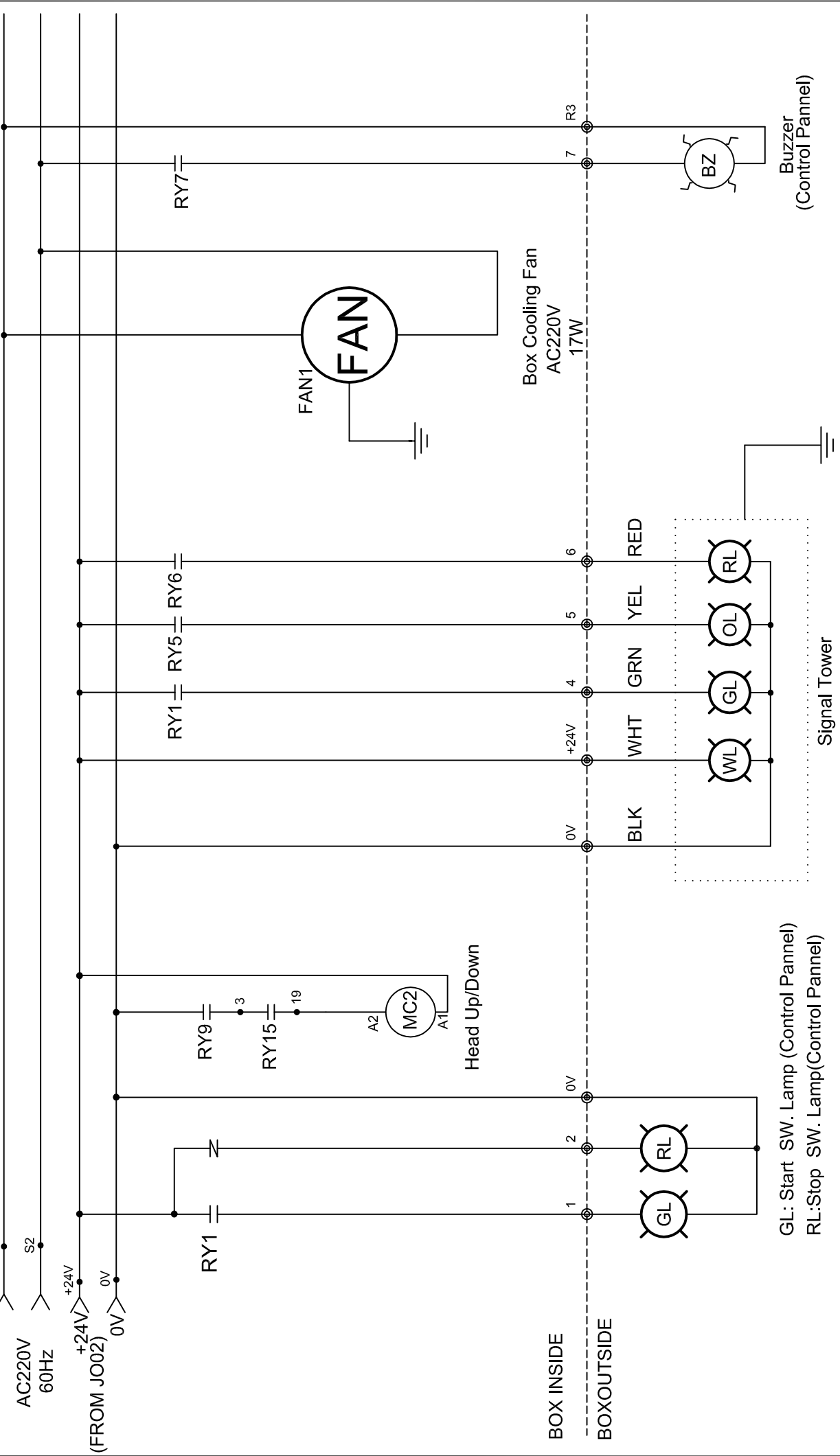
Design change note			
Mark	Description	Modifier	Check
△	-	-	-

AC Operation power

AC220V 60Hz

(FROM JO02)

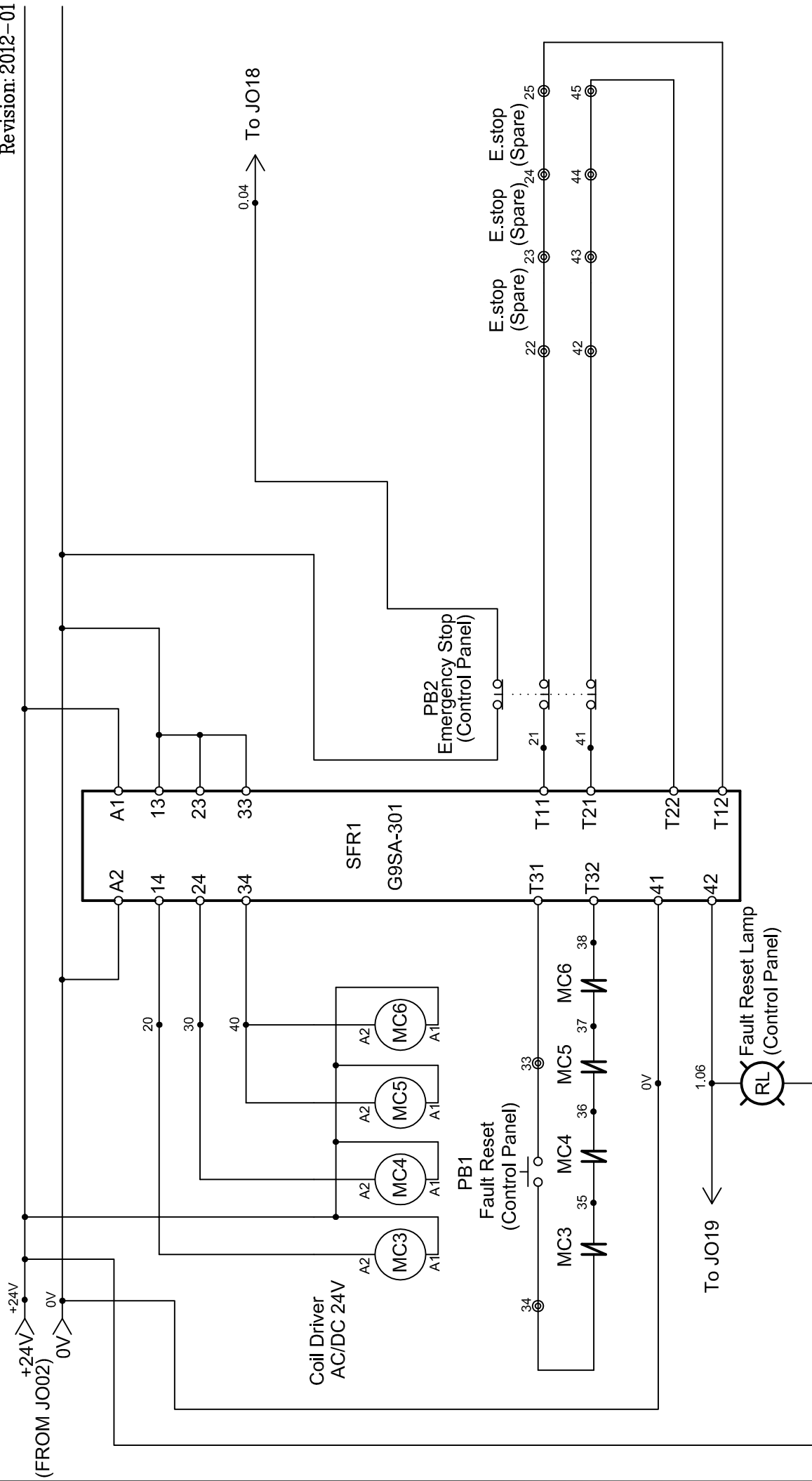
Revision: 2012-01



Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J002	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
△	-	-	-

Revision: 2012-01



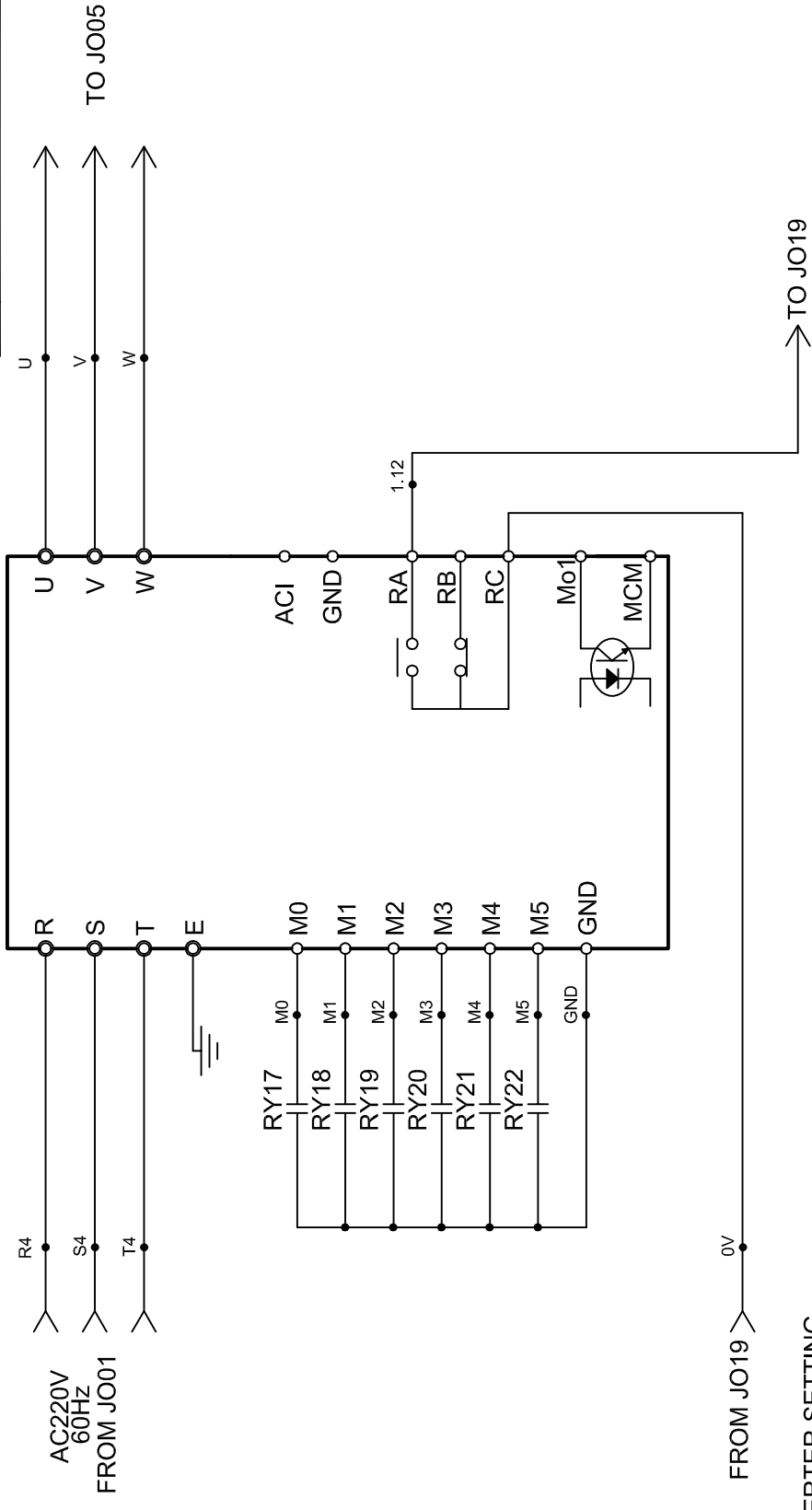
OMRON G9SA-301 Safety Relay Unit

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J003	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Check
△	-	-	-
△	-	-	-

Revision: 2012-01

INV1
INVERTER 750W
VFD007M23A



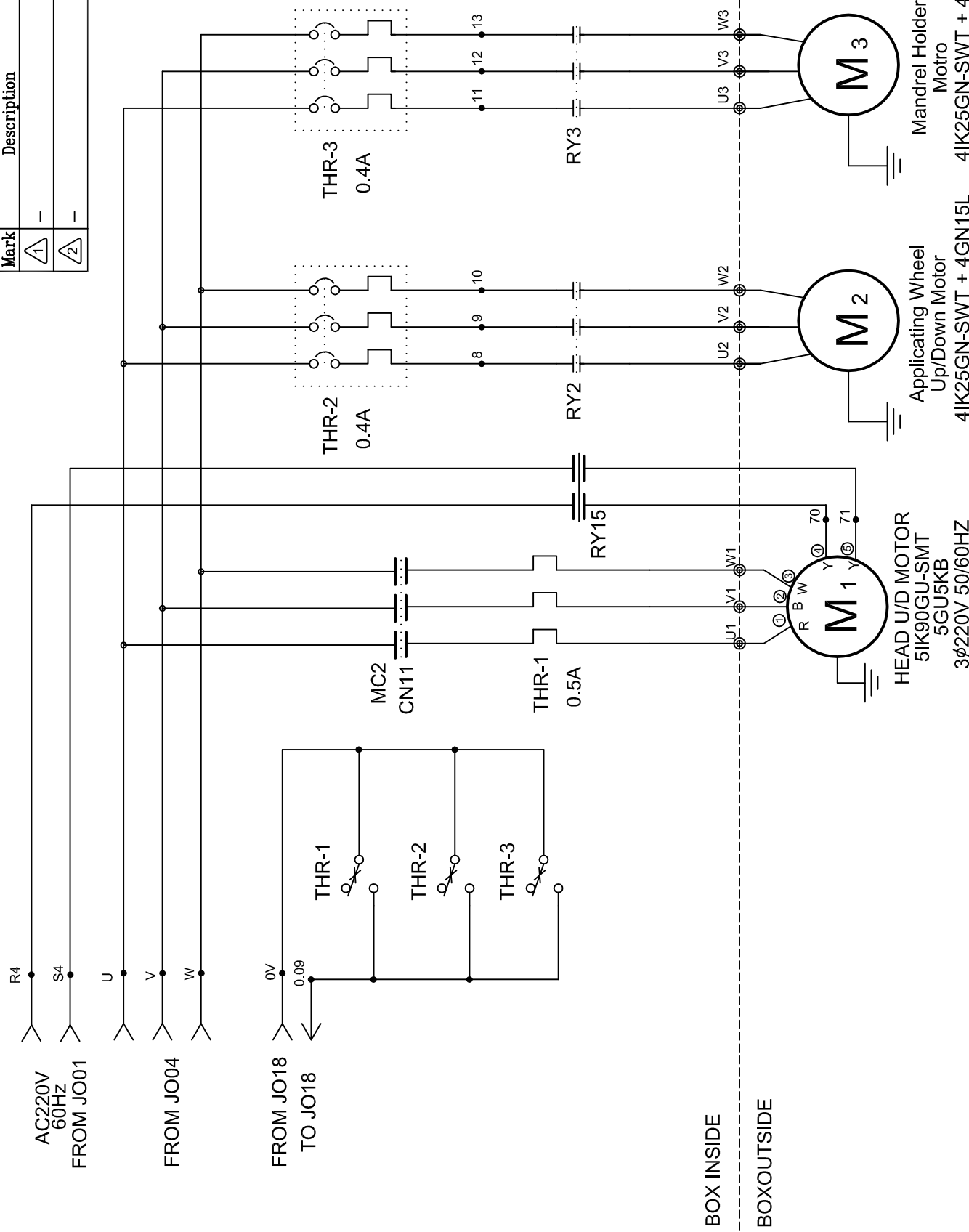
INVERTER SETTING

MASTER FREQUENCY: 30 FILM SUPPLY LO-SPEED (Inner)
P01: 02 OPERATING INSTRUCTIONS DETERMINED BY THE EXTERNAL CONTROL TERMINALS.
P03:120 MAX. FREQUENCY
P17:80 APPLICATING WHEEL U/D SPEED
P18:40 FORMER HOLDER O/C SPEED
P19:60 HEAD ADJ. FAST SPEED
P20:30 HEAD ADJ. SLOW SPEED
P21:25 HEAD ADJ. MICRO SPEED
P22:120 FILM SUPPLY HI-SPEED (Inner)
P00: 01 MASTER FREQUENCY DETERMINED BY 0 TO +10V INTPUT ON AVI TERMINAL WITH JUMPERS.
P10: 0.1 ACCELERATION TIME 1
P11: 0.1 DECELERATION TIME 1
P12: 0.5 ACCELERATION TIME 2 (FILM SUPPLY MOTOR USE)
P13: 0.5 DECELERATION TIME 2 (FILM SUPPLY MOTOR USE)
P38: 00 MULTI-FUNCTION INPUT TERMINAL (M0,M1) : M0:FWD/STOP, M1:REV/STOP
P39: 11 MULTI-FUNCTION INPUT TERMAL (M2) : 1st OR 2nd ACCEL/DECEL TIME SELECTION
P45: 01PHOTOCOUPLER OUTPUT : OUTPUT FREQUENCY ATTAINED
P76: 01"00" :ALL PARAMETERS CAN BE SET/READ ; "01":ALL PARAMETERS ARE READ-ONLY

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J004	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
①	-	-	-
②	-	-	-

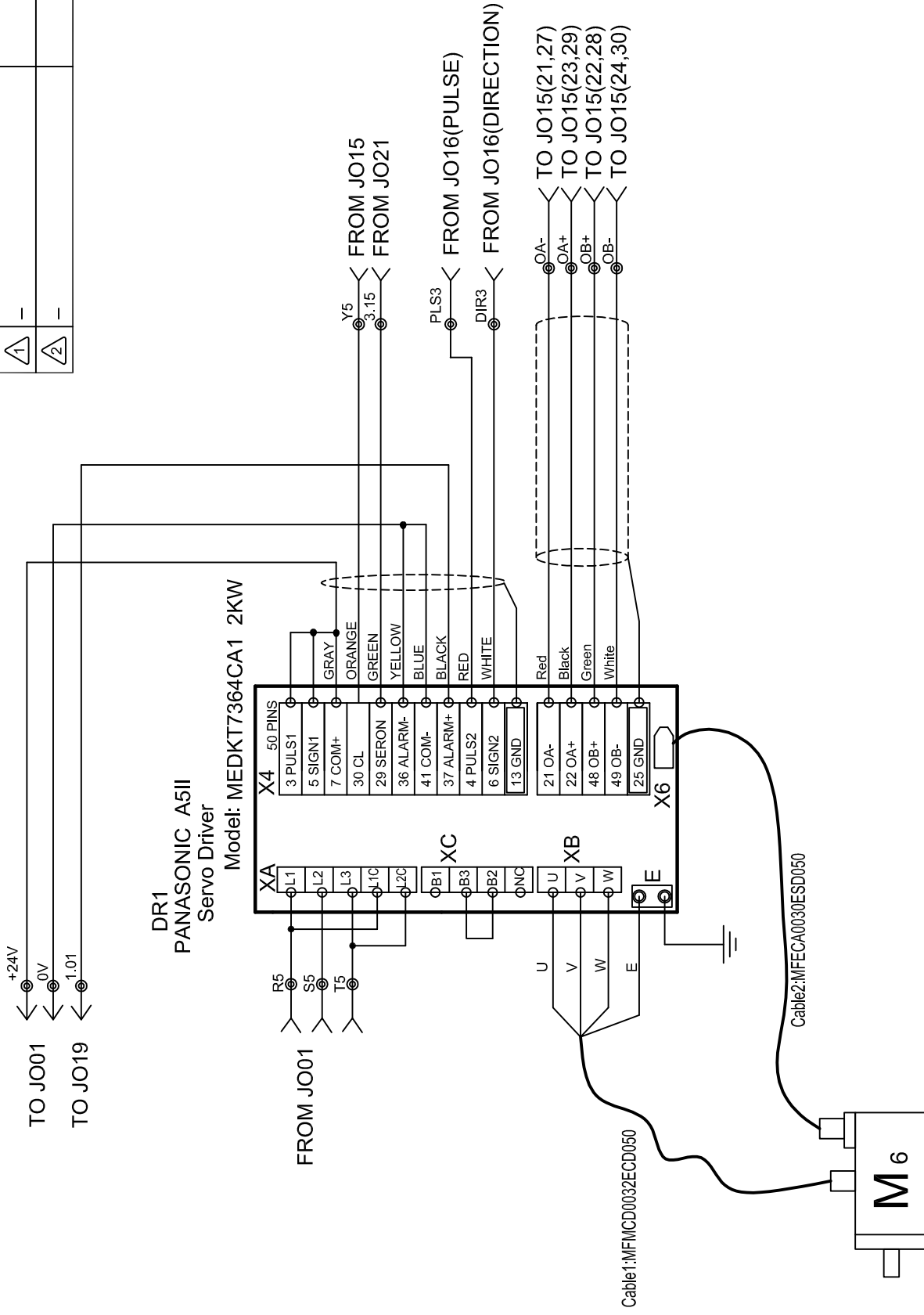
Revision: 2012-01



Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J005	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
①	-	-	-
②	-	-	-

Revision: 2012-01



PANASONIC A5II MDME202GCGM 2KW

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J006	LX350N	06.01.2012			ALAN

Feed Servo Motor Driver

Model#MEDKT7364CA1 2KW A5II

50PINS Connector:SCSI2-50P

26	28	30	32	34	36	38	40	42	44	46	48	50
VS-SEL	DIV	CL	C-	S-	ALM-	COIN-	TLC	IM	PULSH1	SIGNH1	OB+	FG
MODE	RDY-											
27	29	31	33	35	37	39	41	43	45	47	49	
GAIN	SRV	A-	INH	S-	ALM+	COIN+	COM-	SP	PULSH2	SIGNH2	OB-	
-ON	CLR				RDY+							
1	3	5	7	9	11	13	15	17	19	21	23	25
NC	PULS1	SIGN1	COM+	CCWL	BRK-	GND	GND	GND	CZ	OA+	OZ+	GND
					OFF+							
2	4	6	8	10	12	14	16	18	20	22	24	
NC	PULS2	SIGN2	CWL	BRK-	ZSP	SPR	CCWTL	CWTL	NC	OA-	OZ-	
				OFF-		TRQR	TRQR					

Wire Color	50Pin NO#	Function	Wire NO#
Gray	7	COM+	+24V
Green	29	SERON	3.15
Gray	3	PULS1	+24V
Red	4	PULS2	PLS3
Gray	5	SIGN1	+24V
White	6	SIGN2	DIR3
Blue	41	COM-	0V
Yellow	36	ALARM-	0V
Black	37	ALARM+	1.01
Orange	30	CL	Y5
	13	shield	
Red	21	OA-	OA-
Black	22	OA+	OA+
Green	48	OB+	OB+
White	49	OB-	OB-
	25	shield	

Design change note

Mark	Description	Modifier	Date	Check
①	-		-	
②	-		-	

Revision: 2012-01

Setting Method

DISPLAY : r0

PRESS "SET"

DISPLAY : dp-Spd

PRESS "MODE"

DISPLAY : PA-00

PRESS \odot TWICE

PRESS \odot

PRESS \odot 4 TIMES

DISPLAY : PA-42

PRESS "SET"

PRESS \odot TO MODIFY ,FACTORY SETTING :3

PRESS "SET"

DISPLAY: PA-42

PRESS "MODE"

DISPLAY: EE-SET (SAVE TO EEPROM)

PRESS "SET"

DISPLAY : EEP-

PRESS \odot AND HOLD IT, TILL SHOW "Finish"

A5 SETTING

Pr-0.00 : 0

Pr-0.01 : 0

Pr-0.02 : 1

Pr-0.03 : 20

Pr-0.02 : 0

Pr-0.07 : 3

Pr-0.08 : 7200

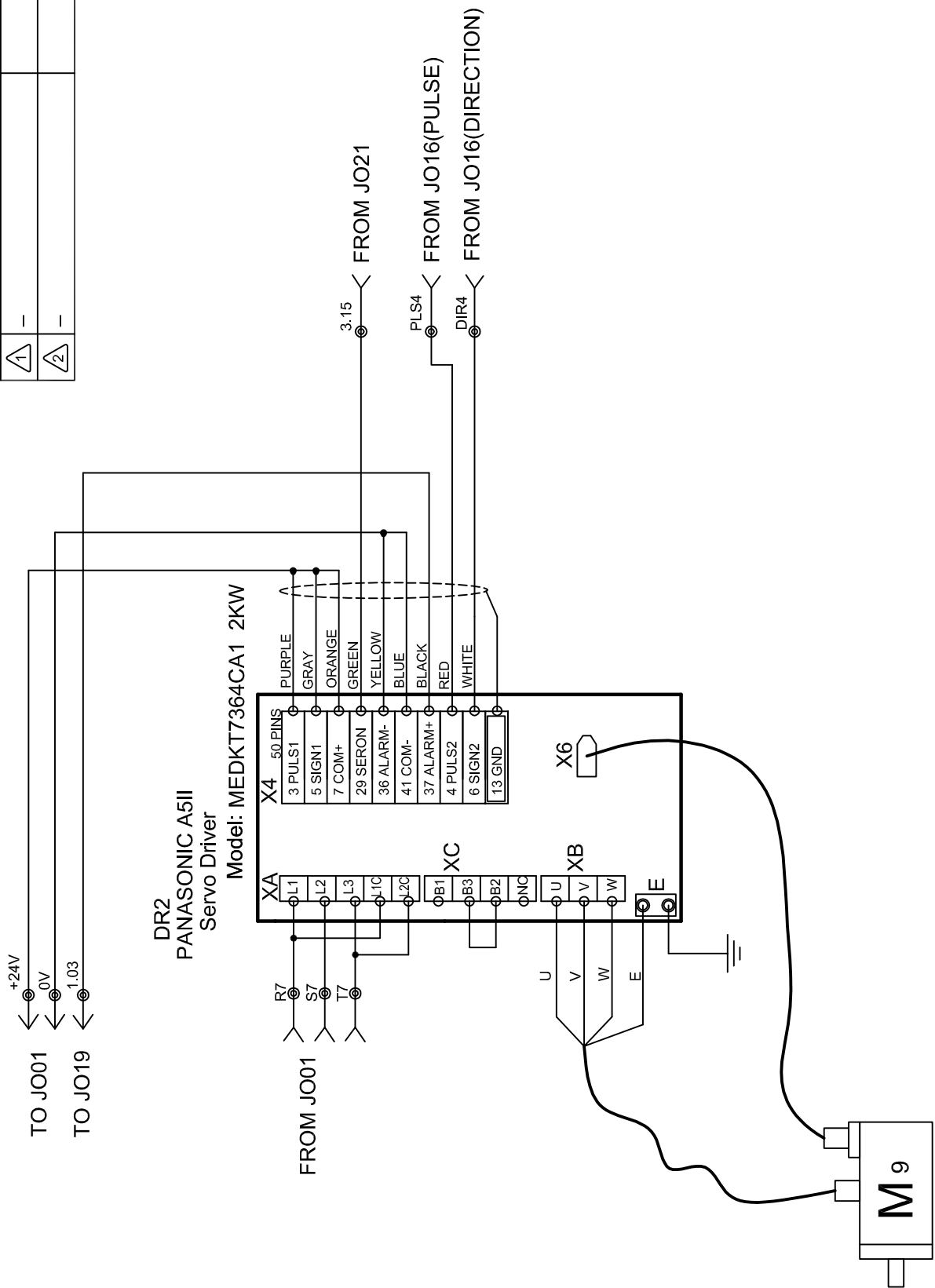
Pr-0.11 : 500

Pr-5.17 : 3

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J007	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
①	-	-	-
②	-	-	-

Revision: 2012-01



DR2
PANASONIC A5II
 Servo Driver
 Model: MEDKT7364CA1 2KW

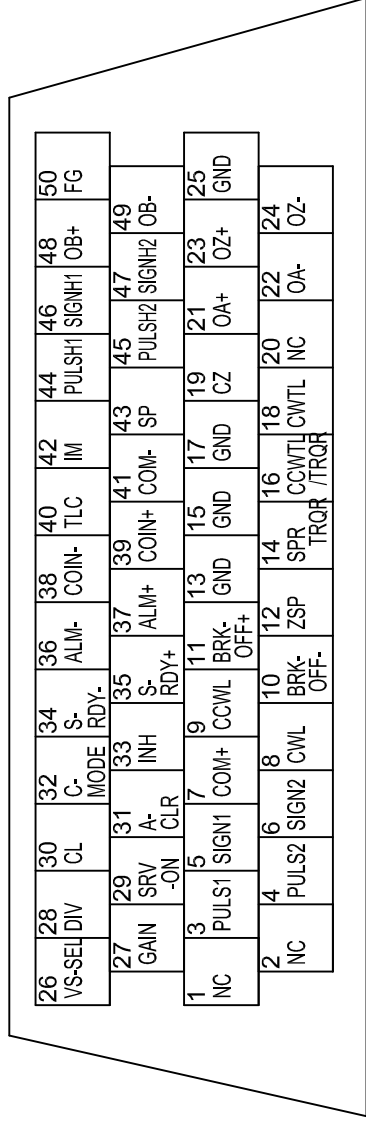
Cutter Servo Motor
PANASONIC A5II MDME202GCCGM 2KW

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J008	LX350N	08.08.2016			ODAN

Cutter Servo Motor Driver

Model: MEDKT7364CA1 2KW A5II

50PINS Connector:SCSI2-50P



Wire Color	50Pin NO#	Function	Wire NO#
Orange	7	COM+	+24V
Green	29	SERON	3.15
Purple	3	PULS1	+24V
Red	4	PULS2	PLS4
Gray	5	SIGN1	+24V
White	6	SIGN2	DIR4
Blue	41	COM-	0V
Yellow	36	ALARM-	0V
Black	37	ALARM+	1.03
	13	shield	

Setting Method
 DISPLAY : r0
 PRESS "SET"
 DISPLAY : dp-Spd
 PRESS "MODE"
 DISPLAY : PA-00
 PRESS TWICE
 PRESS
 PRESS 4 TIMES
 DISPLAY : PA-42
 PRESS "SET"
 PRESS TO MODIFY ,FACTORY SETTING :3
 PRESS "SET"
 DISPLAY: PA-42
 PRESS "MODE"
 DISPLAY: EE-SET (SAVE TO EEPROM)
 PRESS "SET"
 DISPLAY : EEP-
 PRESS AND HOLD IT ,TILL SHOW "Finish"
 A5 SETTING
 Pr-0.00 : 0
 Pr-0.01 : 0
 Pr-0.02 : 1
 Pr-0.03 : 20
 Pr-0.02 : 0
 Pr-0.07 : 3
 Pr-0.08 : 7200

Revision: 2012-01

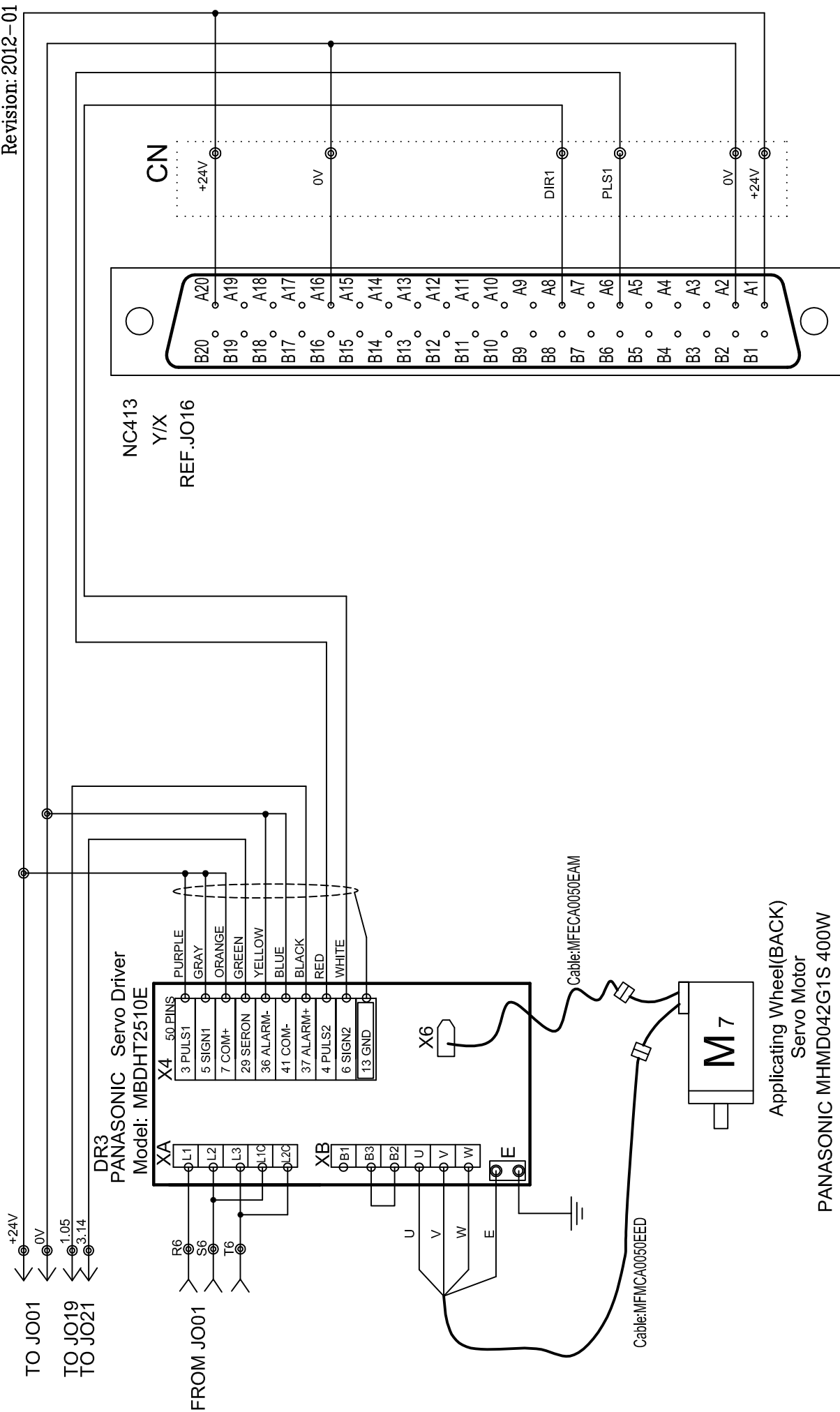
Design change note			
Mark	Description	Modifier	Date
	-		-
	-		-

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J009	LX350N	06.01.2012			ALAN

Design change note

Mark	Description	Modifier	Date	Check
△1	-		-	
△2	-		-	

Revision: 2012-01



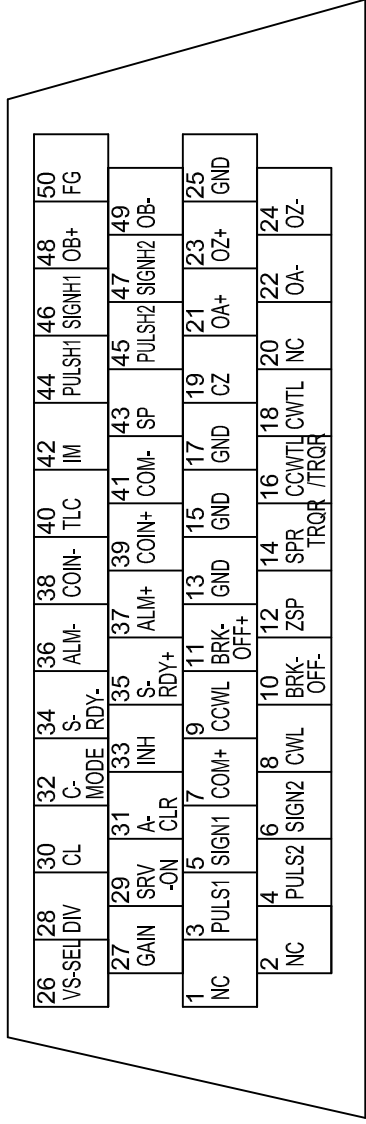
Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J010	LX350N	06.01.2012			ALAN

Applicating Wheel(BACK)
Servo Motor

PANASONIC MHMD042G1S 400W

Applicating Wheel
 DR3 Servo Motor Driver
 Model: MBDHT2510E

50Pins Connector:SCS12-50P



Wire Color	50Pin NO#	Function	Wire NO#
Orange	7	COM+	+24V
Green	29	SERON	3.14
Purple	3	PULS1	+24V
Red	4	PULS2	PLS1
Gray	5	SIGN1	+24V
White	6	SIGN2	DIR1
Blue	41	COM-	0V
Yellow	36	ALARM-	0V
Black	37	ALARM+	1.05
	13	shield	

Setting Method
 DISPLAY : r0
 PRESS "SET"
 DISPLAY : dp-Spd
 PRESS "MODE"
 DISPLAY : PA-00
 PRESS ⬆ TWICE
 PRESS ⬇
 PRESS ⬆ 4 TIMES
 DISPLAY : PA-42
 PRESS "SET"
 PRESS ⬇⬇ TO MODIFY ,FACTORY SETTING :3
 PRESS "SET"
 DISPLAY: PA-42
 PRESS "MODE"
 DISPLAY : EE-SET (SAVE TO EEPROM)
 PRESS "SET"
 DISPLAY : EEP-
 PRESS ⬇ AND HOLD IT,TILL SHOW "Finish"
 A5 SETTING
 Pr-0.00 : 1 (0:CW ; 1:CCW)
 Pr-0.01 : 0
 Pr-0.07 : 3
 Pr-0.08 : 1000 (1000 P/R)

Revision: 2012-01

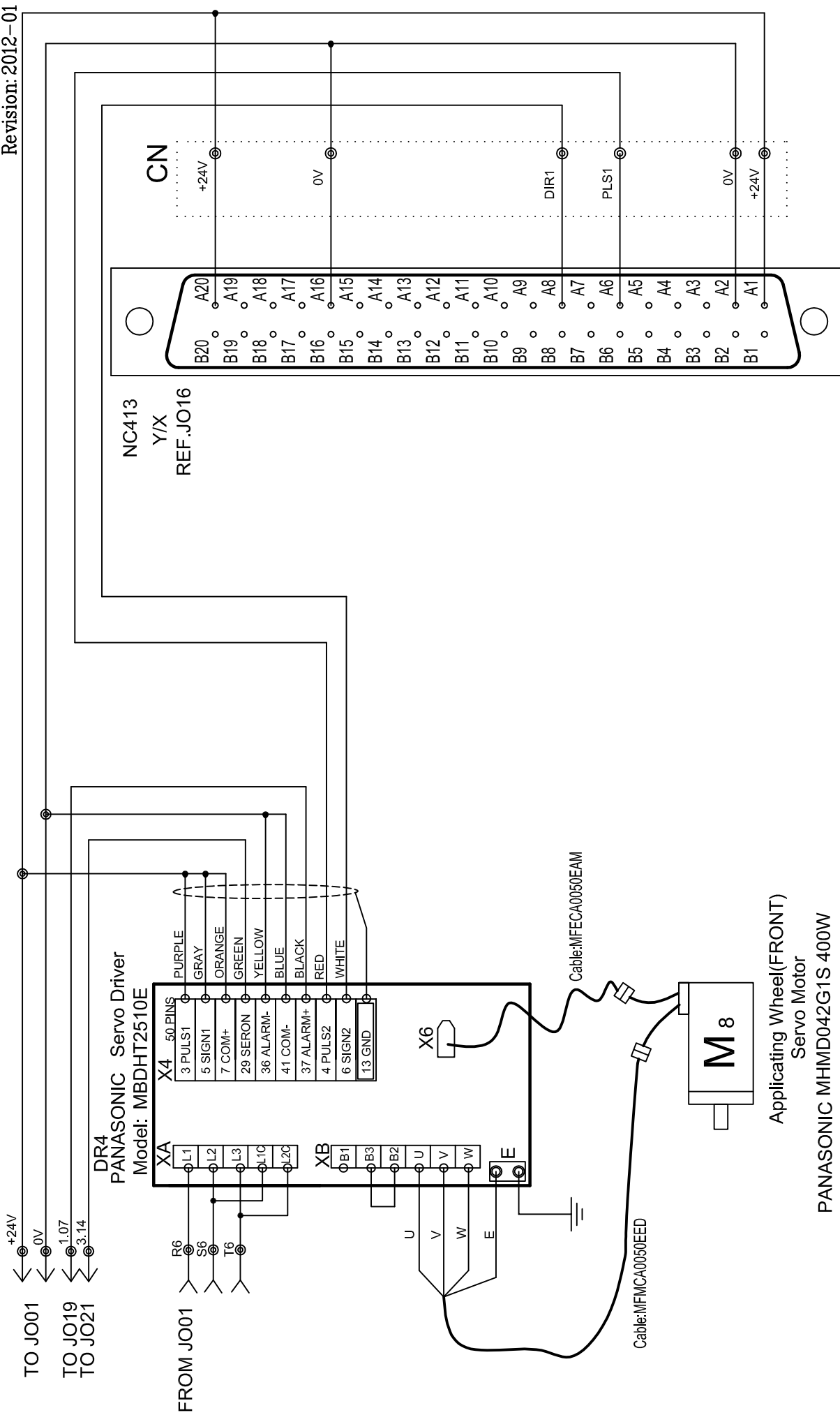
Design change note			
Mark	Description	Modifier	Date
①	-		-
②	-		-

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J011	LX350N	06.01.2012			ALAN

Design change note

Mark	Description	Modifier	Date	Check
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△2	-		-	

Revision: 2012-01

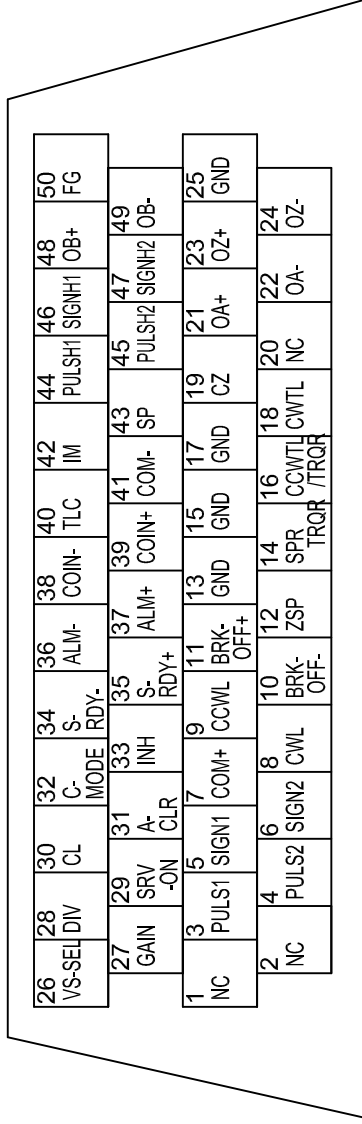


Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J012	LX350N	06.01.2012			ALAN

Applying Wheel(FRONT)
Servo Motor
PANASONIC MHMD042G1S 400W

Applicating Wheel
 DR4 SERVO MOTOR DRIVER
 Model: MBDHT2510E

50Pins Connector:SCS12-50P



Wire Color	50Pin NO#	Function	Wire NO#
Orange	7	COM+	+24V
Green	29	SERON	3.14
Purple	3	PULS1	+24V
Red	4	PULS2	PLS1
Gray	5	SIGN1	+24V
White	6	SIGN2	DIR1
Blue	41	COM-	0V
Yellow	36	ALARM-	0V
Black	37	ALARM+	1.07

13

Design change note			
Mark	Description	Modifier	Date
△1	-		-
△2	-		-

Revision: 2012-01

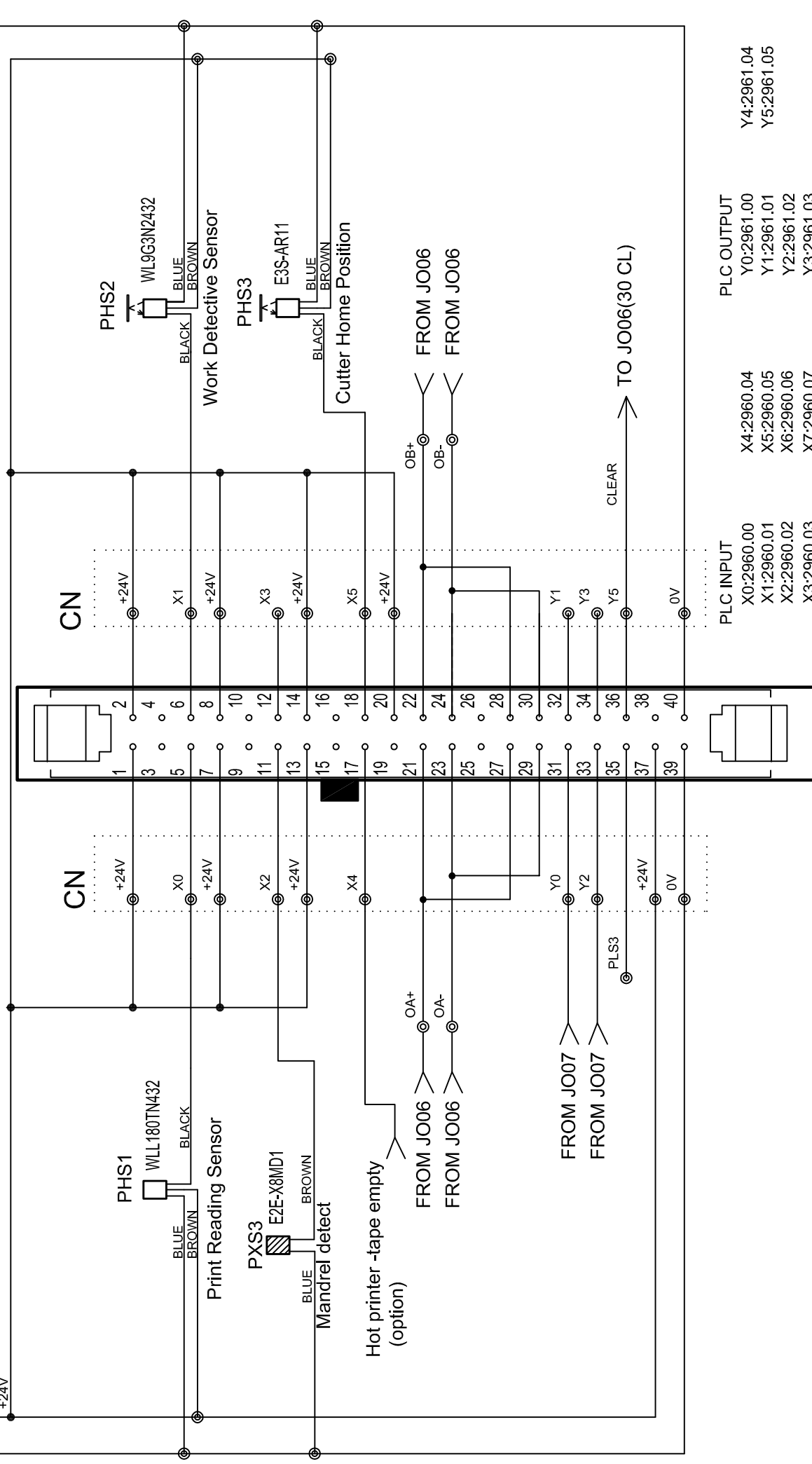
Setting Method
 DISPLAY : r0
 PRESS "SET"
 DISPLAY : dp-Spd
 PRESS "MODE"
 DISPLAY : PA-00
 PRESS ⬆ TWICE
 PRESS ⬆
 PRESS ⬆ 4 TIMES
 DISPLAY : PA-42
 PRESS "SET"
 PRESS ⬆⬆ TO MODIFY ,FACTORY SETTING :3
 PRESS "SET"
 DISPLAY: PA-42
 PRESS "MODE"
 DISPLAY : EE-SET (SAVE TO EEPROM)
 PRESS "SET"
 DISPLAY : EEP-
 PRESS⬆ AND HOLD IT,TILL SHOW "Finish"
 A5 SETTING
 Pf-0.00 : 0 (0:CCW ; 1:CCW)
 Pf-0.01 : 0
 Pf-0.07 : 3
 Pf-0.08 : 1000 (1000 P/R)

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J013	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
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②	-	-	-

Revision: 2012-01

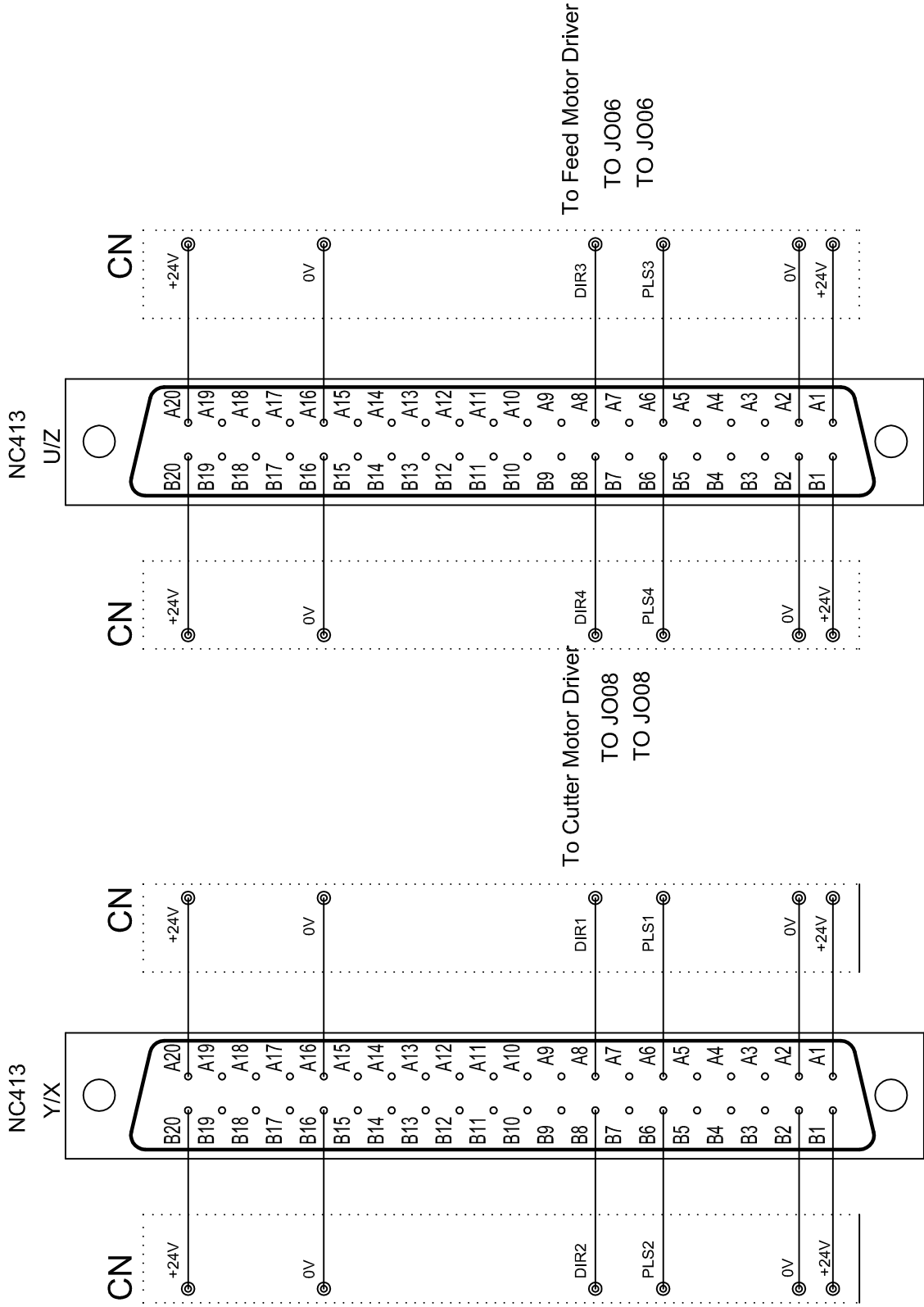
CJ2M-MD211



Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J015	LX350N	08.08.2016			ODAN

Design change note			
Mark	Description	Modifier	Check
△1	-	-	-
△2	-	-	-

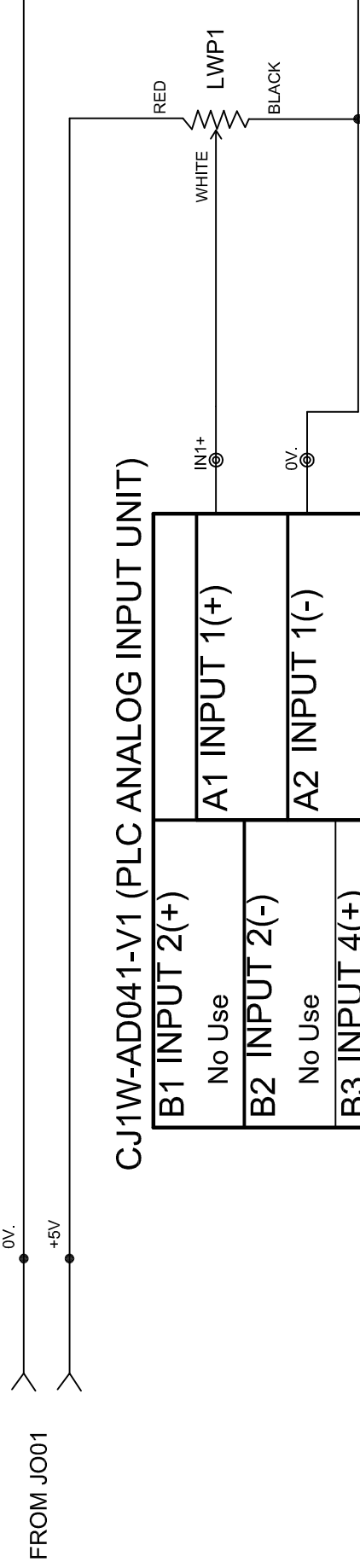
Revision: 2012-01



Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J016	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Check
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②	-	-	-

Revision: 2012-01



CJ1W-AD041-V1 (PLC ANALOG INPUT UNIT)

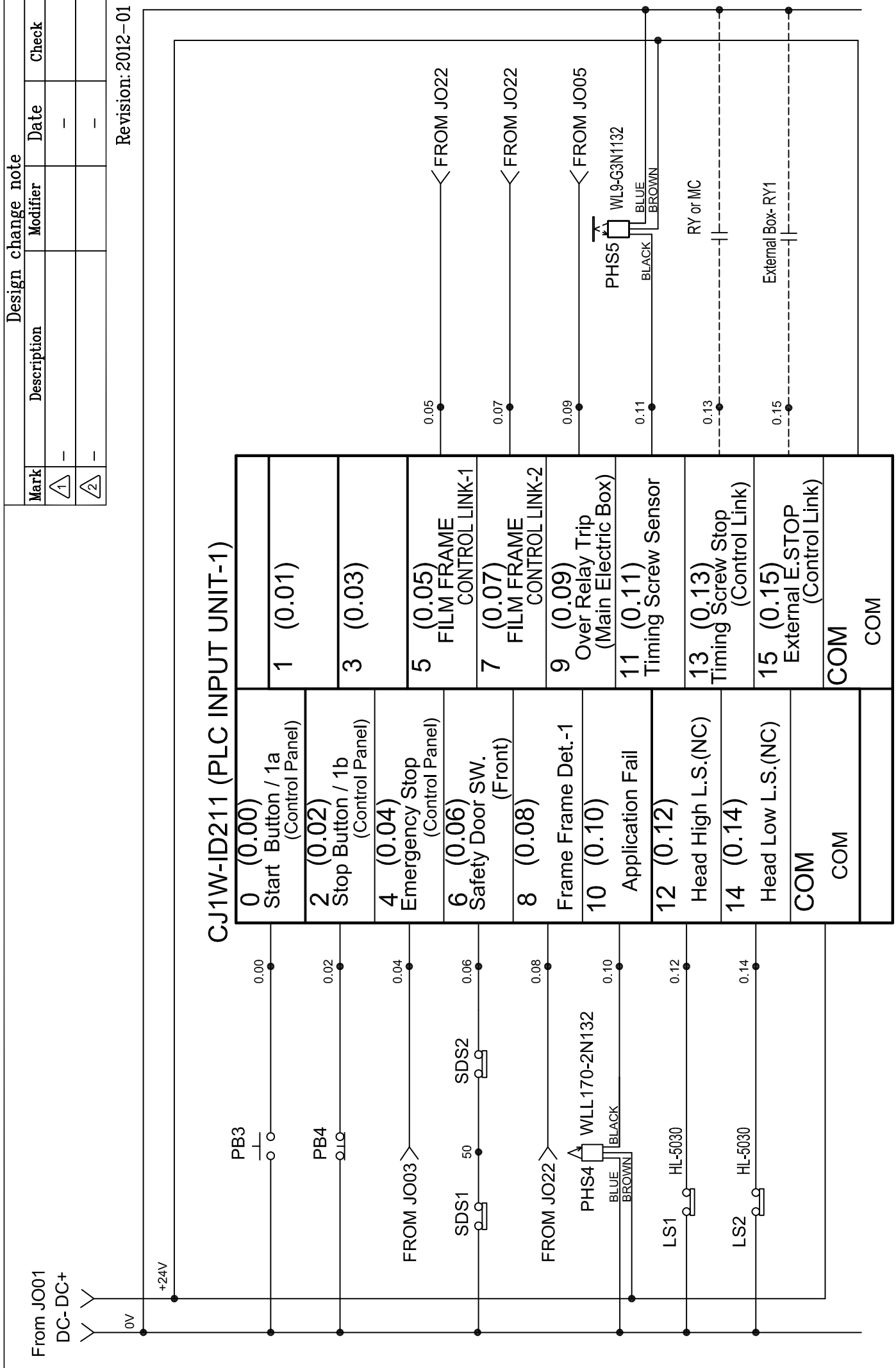
B1 INPUT 2(+)	A1 INPUT 1(+)
No Use	
B2 INPUT 2(-)	A2 INPUT 1(-)
No Use	
B3 INPUT 4(+)	A3 INPUT 3(+)
No Use	No Use
B4 INPUT 4(-)	A4 INPUT 3(-)
No Use	No Use
B5 AG	A5 AG
B6	A6
B7	A7
B8	A8
B9	A9

Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J017	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Check
①	-		-
②	-		-

Revision: 2012-01

CJ1W-ID211 (PLC INPUT UNIT-1)

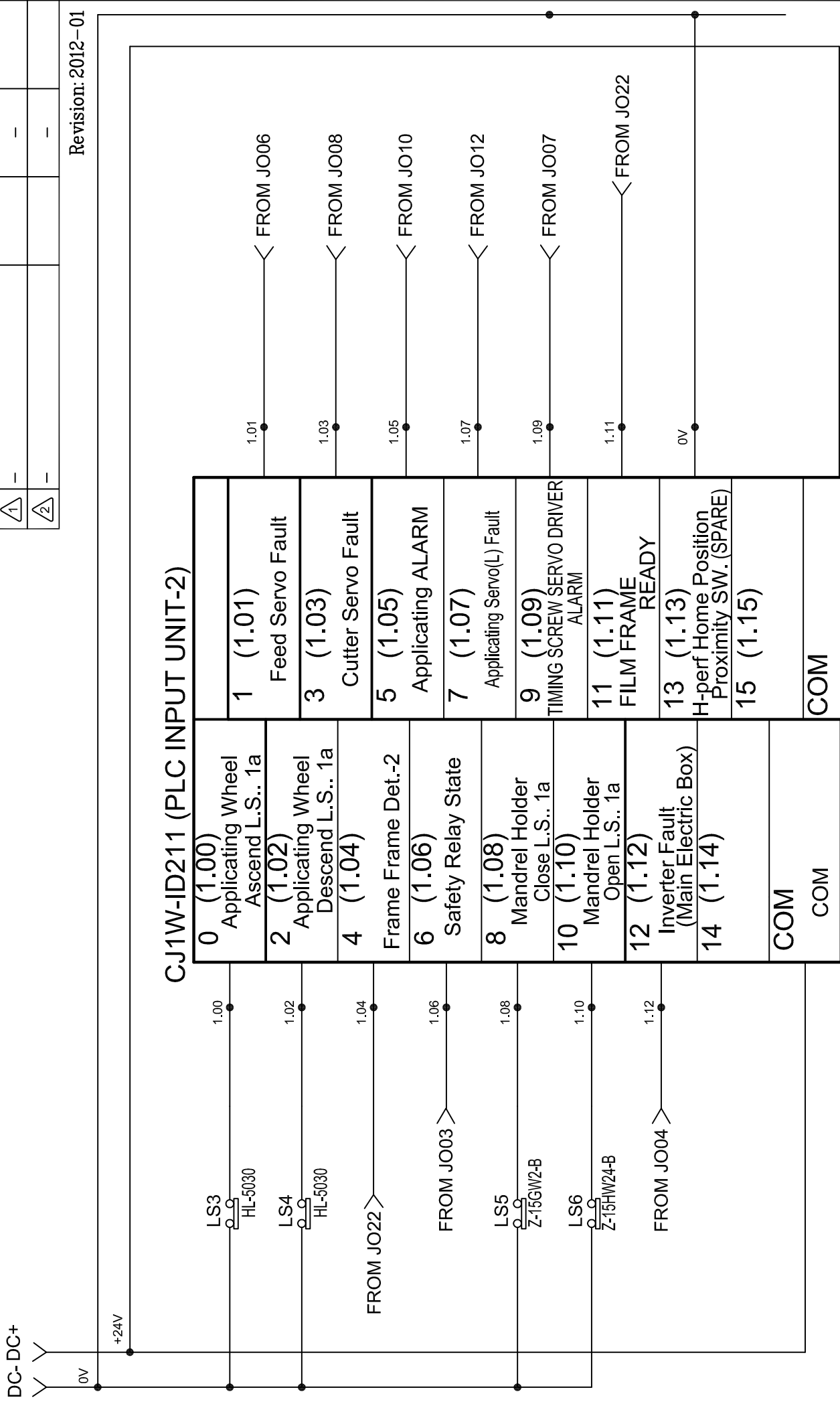


Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J018	LX350N	08.08.2016			ODAN

Design change note			
Mark	Description	Modifier	Date
△1	-	-	-
△2	-	-	-

Revision: 2012-01

CJ1W-ID211 (PLC INPUT UNIT-2)

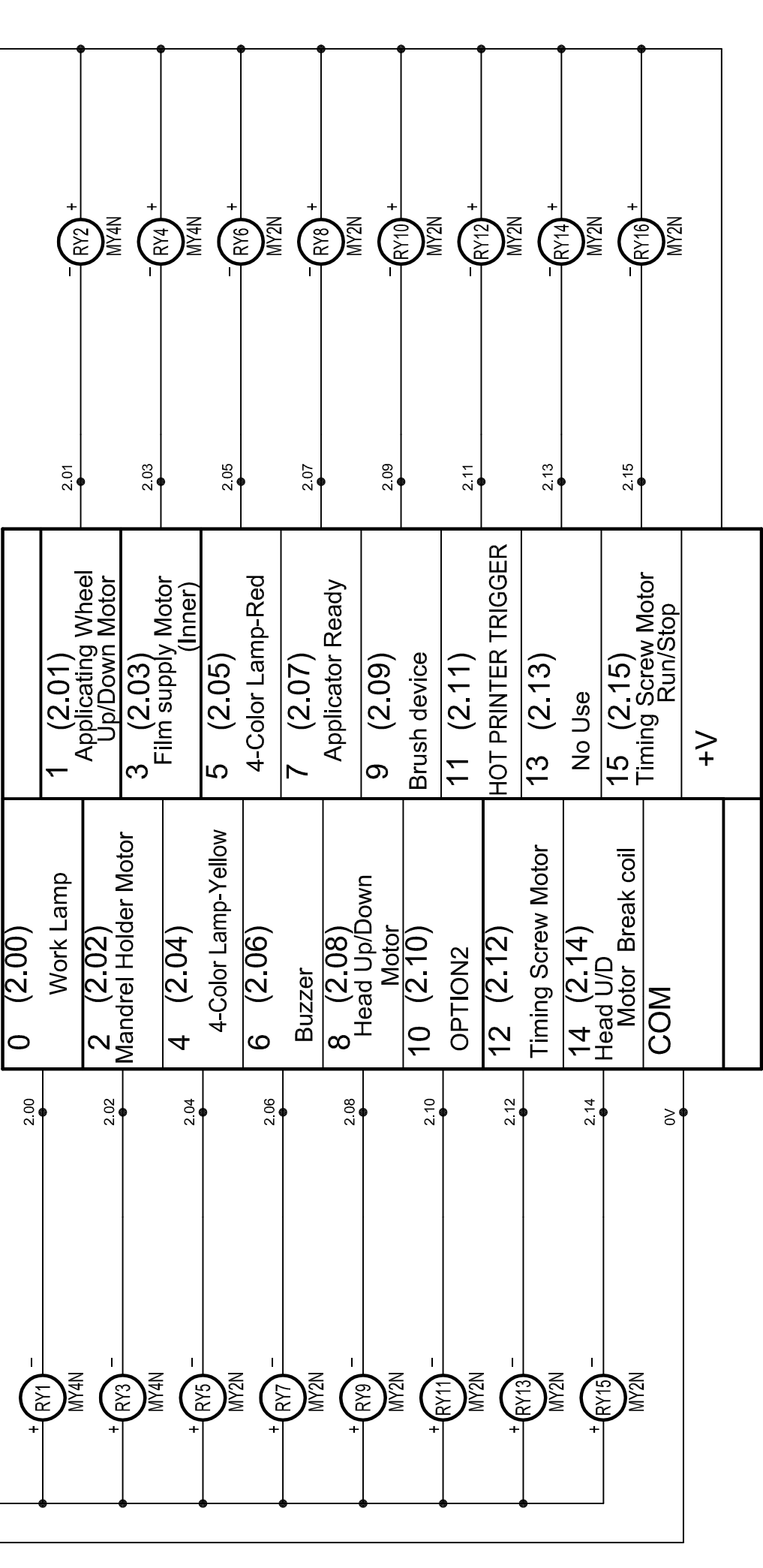


Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J019	LX350N	08.08.2016			ODAN

Design change note			
Mark	Description	Modifier	Date
△1	-	-	-
△2	-	-	-

Revision: 2012-01

CJ1W-OD211 (PLC OUTPUT UNIT-1)



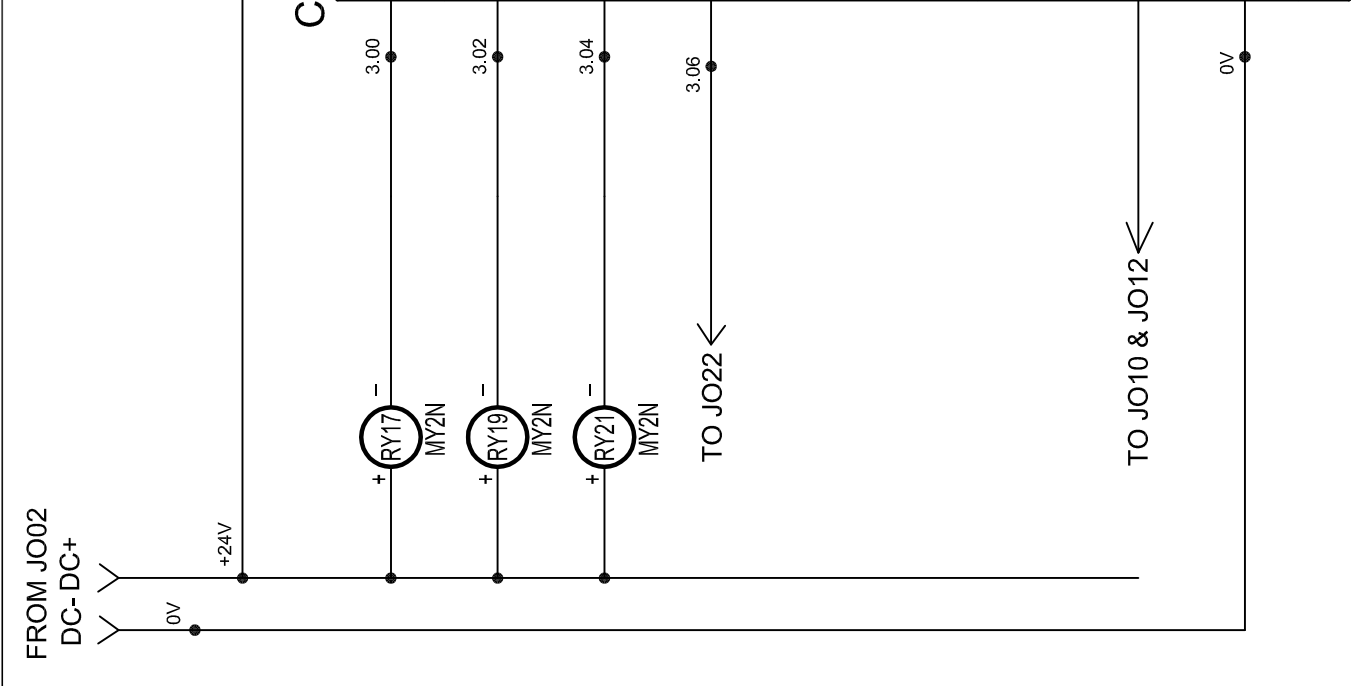
Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J020	LX350N	06.01.2012			ALAN

Design change note			
Mark	Description	Modifier	Date
①	-	-	-
②	-	-	-

Revision: 2012-01

CJ1W-OD211 (PLC OUTPUT UNIT-2)

0 (3.00) Inverter(INV1) Fwd/Stop	1 (3.01) Inverter(INV1) Rev/Stop
2 (3.02) 1st or 2nd Acceleration Time selection	3 (3.03) Multi-Step Speed Command-1
4 (3.04) Multi-Step Speed Command-2	5 (3.05) Multi-Step Speed Command-3
6 (3.06) Film Supply Allow	7 (3.07) No Use
8 (3.08) No Use	9 (3.09) No Use
10 (3.10) No Use	11 (3.11) No Use
12 (3.12) No Use	13 (3.13) HOT PRINTER TRIGGER
14 (3.14) SERVO ON Applicating	15 (3.15) SERVO ON Feed and cutter
COM	+V

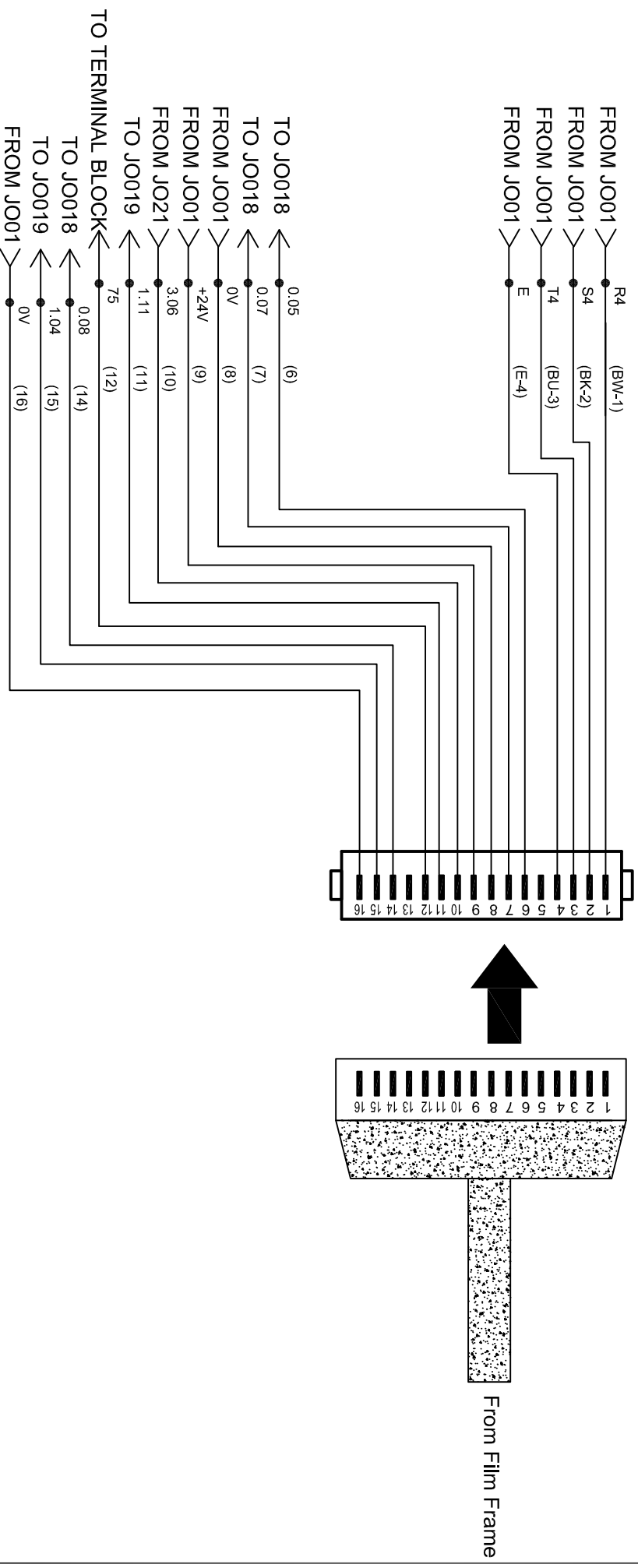


Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J021	LX350N	06.01.2012			ALAN

Design change note				
Mark	Description	Modifier	Date	Check
①	-		-	
②	-		-	

16P CONNECTOR

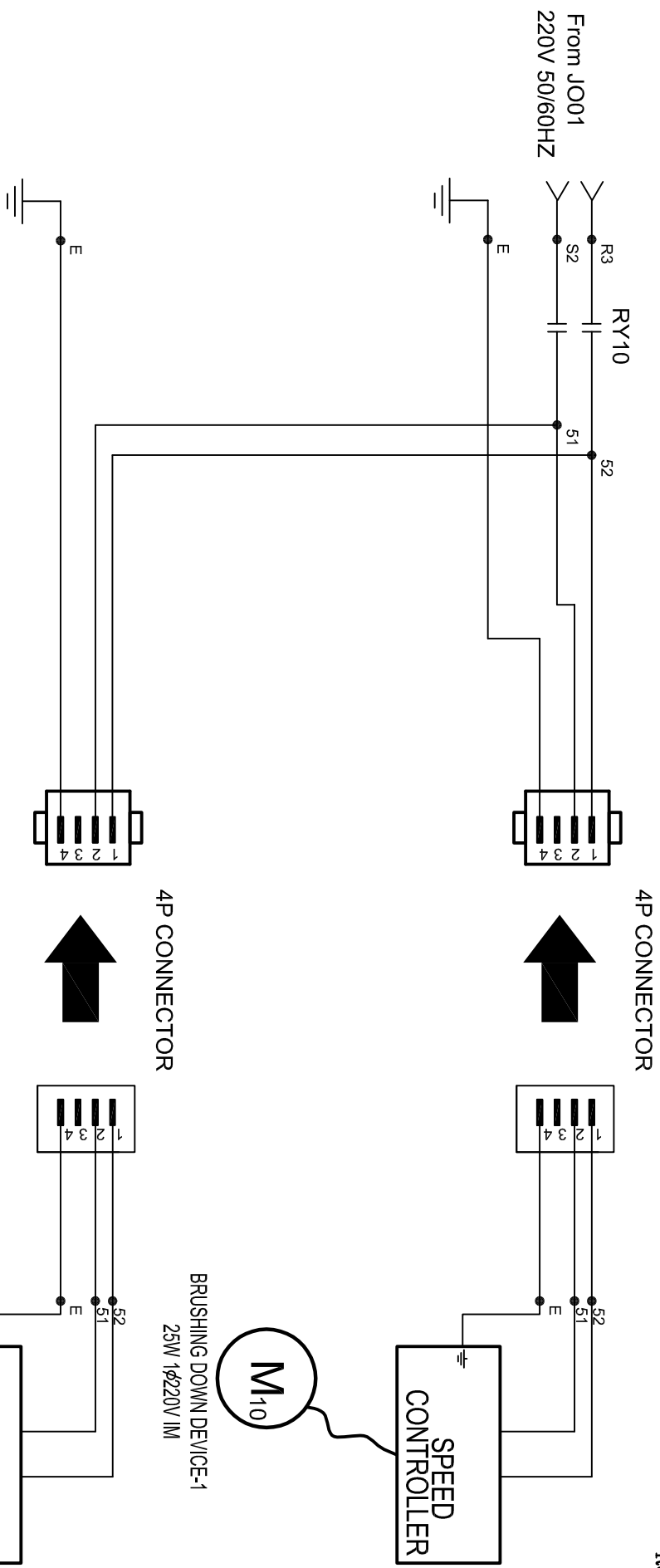
Revision: 2012-01



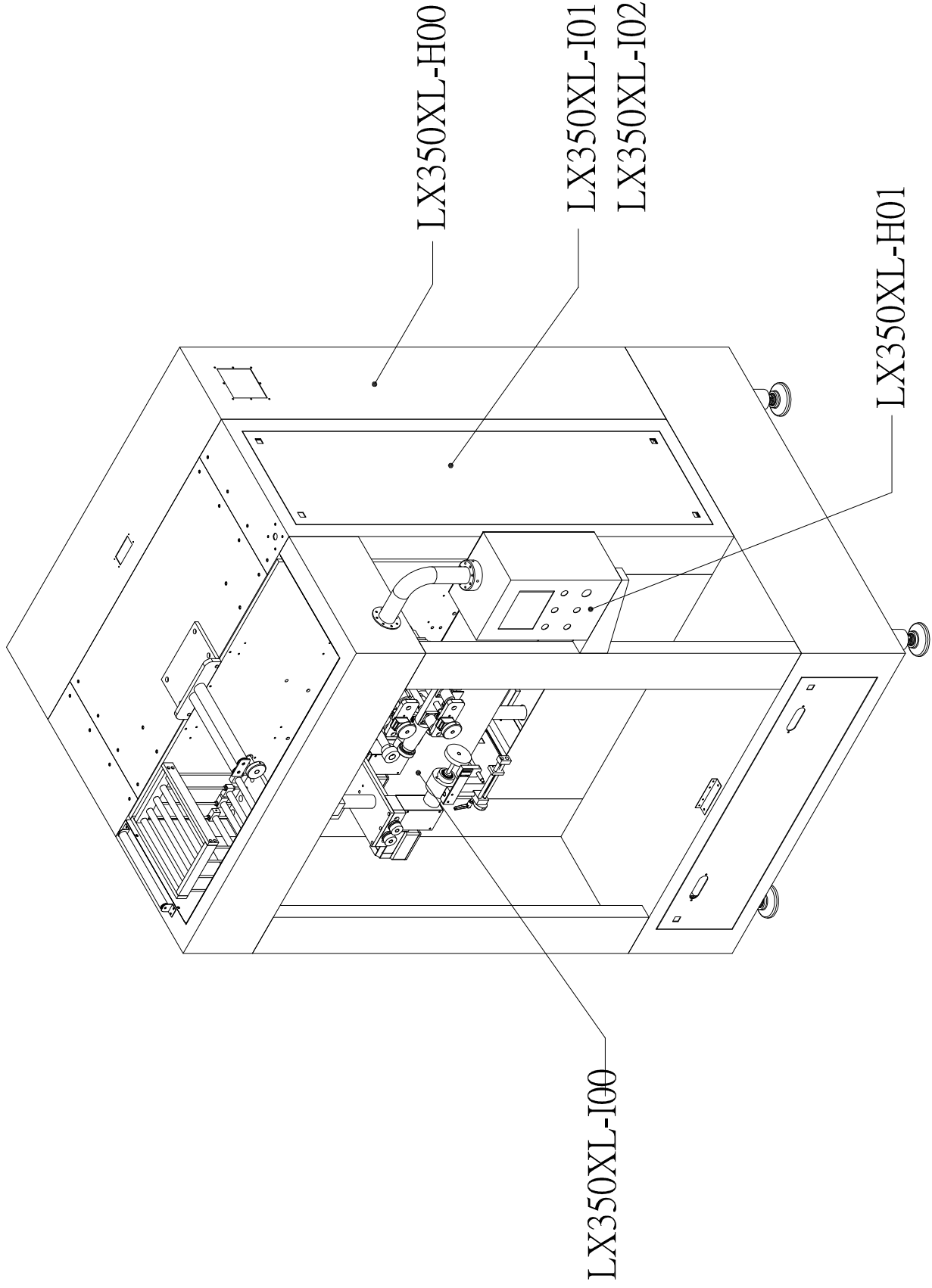
Drawing name	Electric circuit diagram	Machine codename	Date	Approved	Check	Draw
Drawing No	LX350N-J022	LX350N	08.08.2016			ODAN

Design change note				
Mark	Description	Modifier	Date	Check
△1	-		-	
△2	-		-	

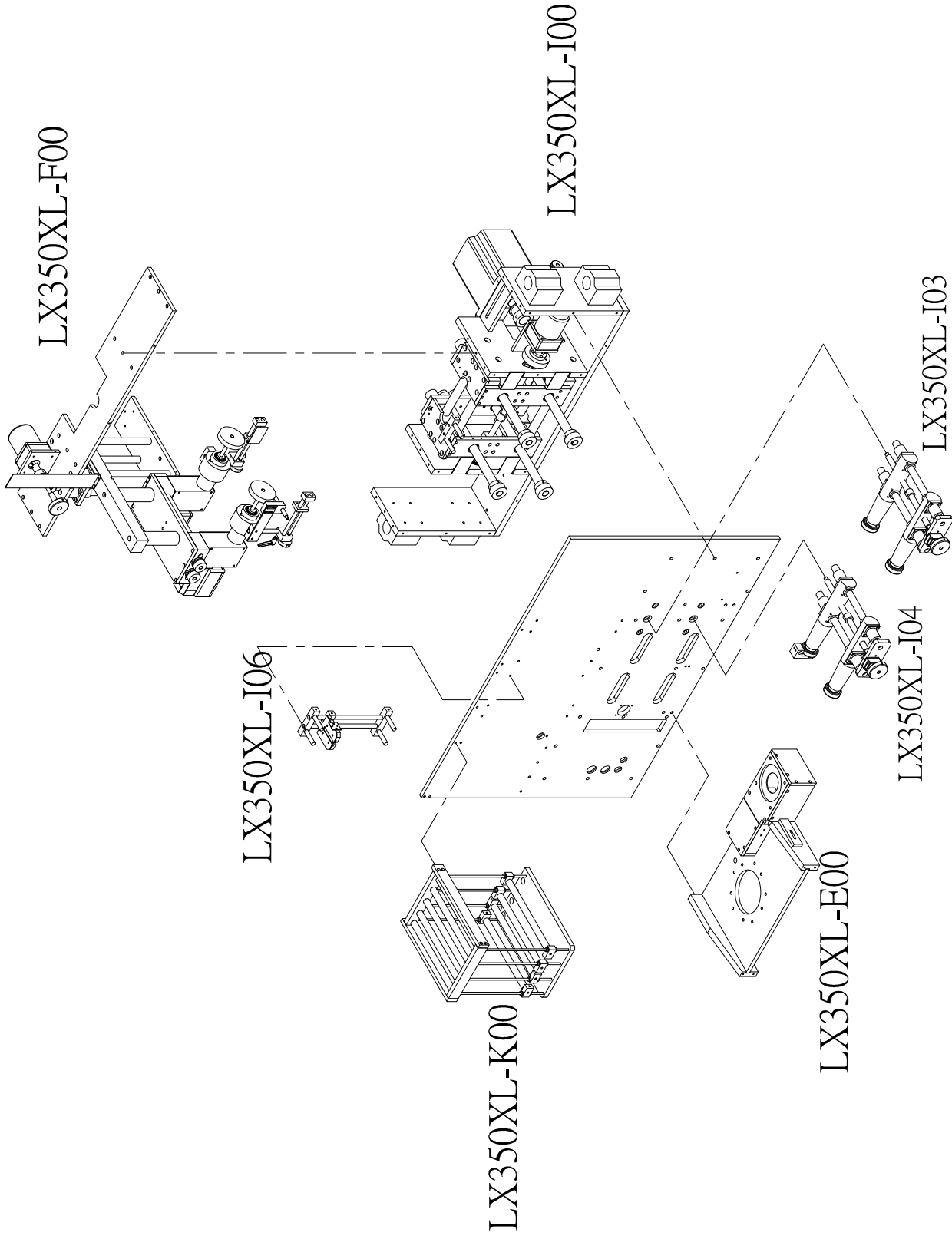
Revision: 2012-01



Drawing name	Electric circuit diagram	Machine codename	LX350N	Date	08.08.2016	Approved	Check	Draw	ODAN
Drawing No	LX350N-J023								



Drawing name	Units	Scale	Date	Check	Design	Draw
LX350XL-A00	MM		2014.06.26			CLAYTON
Drawing No						
LX350XL-A00						

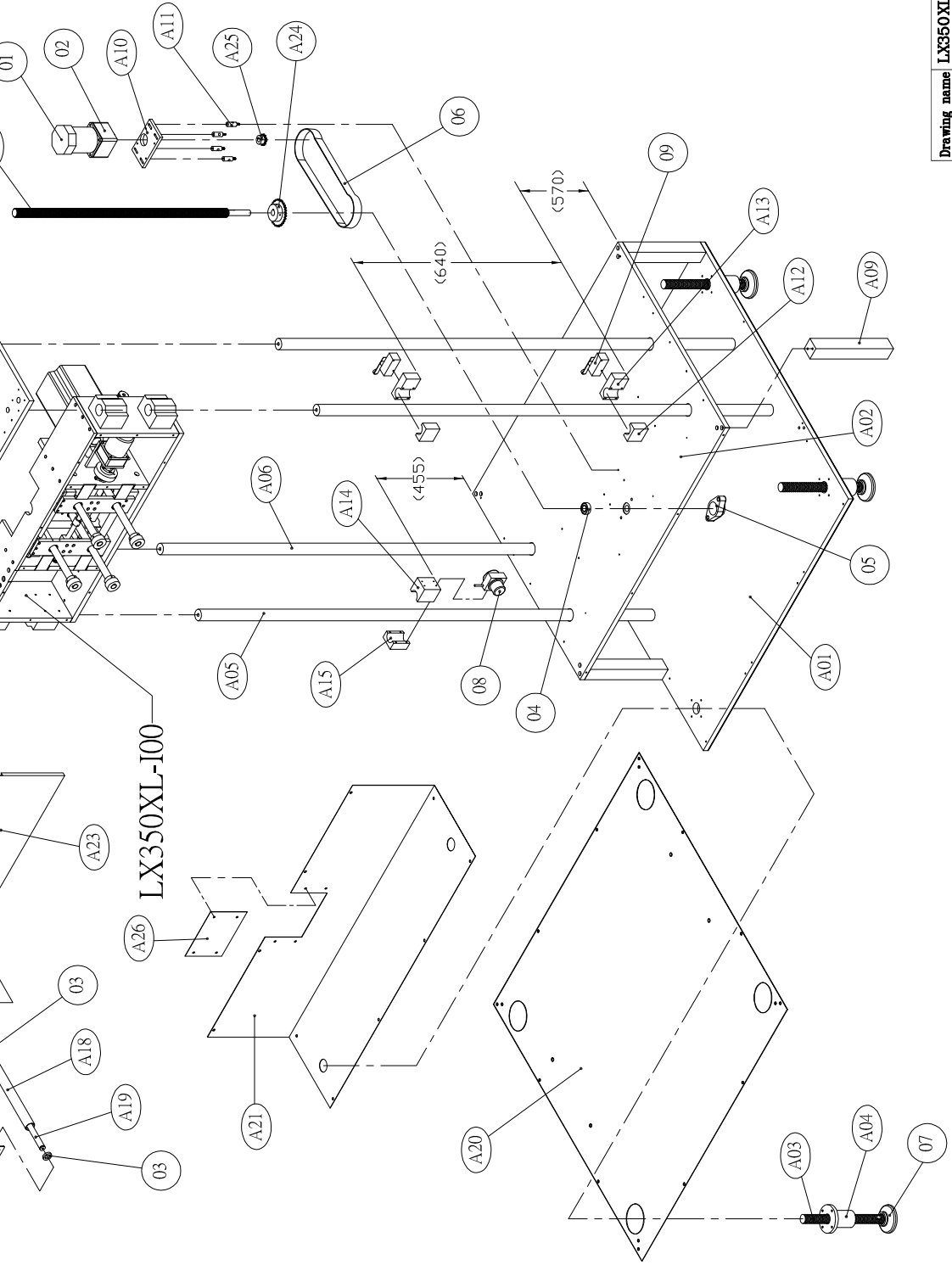


Drawing name	Units	Scale	Date	Check	Design	Draw
LX350XL-A01	MM		2014.06.26			CLAYTON
Drawing No						
LX350XL-A01						

Revision:: 2014-01

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
08	5AA93HPSS10R	Pull - type resistance	HPS-S-10R	1
09	5AB07HL5030	Limit switch	HL-5030 (TZ-8108)	2

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5CH015IK90GUSMT	Induction motor	H-5IK90GU-SMT	1
02	5CH615GU5KB	Gearbox	H-5GU5KB	1
03	5BE016804ZZJ	Bearings	6804ZZJ	4
04	5BE0151204	Thrust bearings	51204 KOYO	1
05	5BE03UCFL20420	With bearings	UCFL204-20	1
06	5BA0113X048	Roller chain	RS35 48	1
07	5BD31FBDS90	mat three-piece set	FBDS90 φ100 SUS	4



ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
A26			LX350-AP24	1
A25	5JLS120AC02	RS35-12gear	LX350XL-AC02	1
A24	5JLS120AC01	RS35-30gear	LX350XL-AC01	1
A23			LX350-AP22	1
A22			LX350-API5	1
A21			LX350-API0	1
A20			LX350-AP03	1
A19			LX350-AM21	2
A18			LX350-AM20	2
A17			LX350-AM19	1
A16			LX350-AM18	1
A15			LX350-AM15	1
A14			LX350-AM14	1
A13			LX350-AM13	2
A12			LX350-AM12	2
A11			LX350-AM11	4
A10			LX350-AM10	1
A09			LX350-AM09	4
A08			LX350-AM08	1
A07			LX350-AM07	1
A06			LX350-AM06	2
A05			LX350-AM05	2
A04			LX350-AM04	4
A03			LX350-AM03	4
A02			LX350-AM02	1
A01			LX350-AM01	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

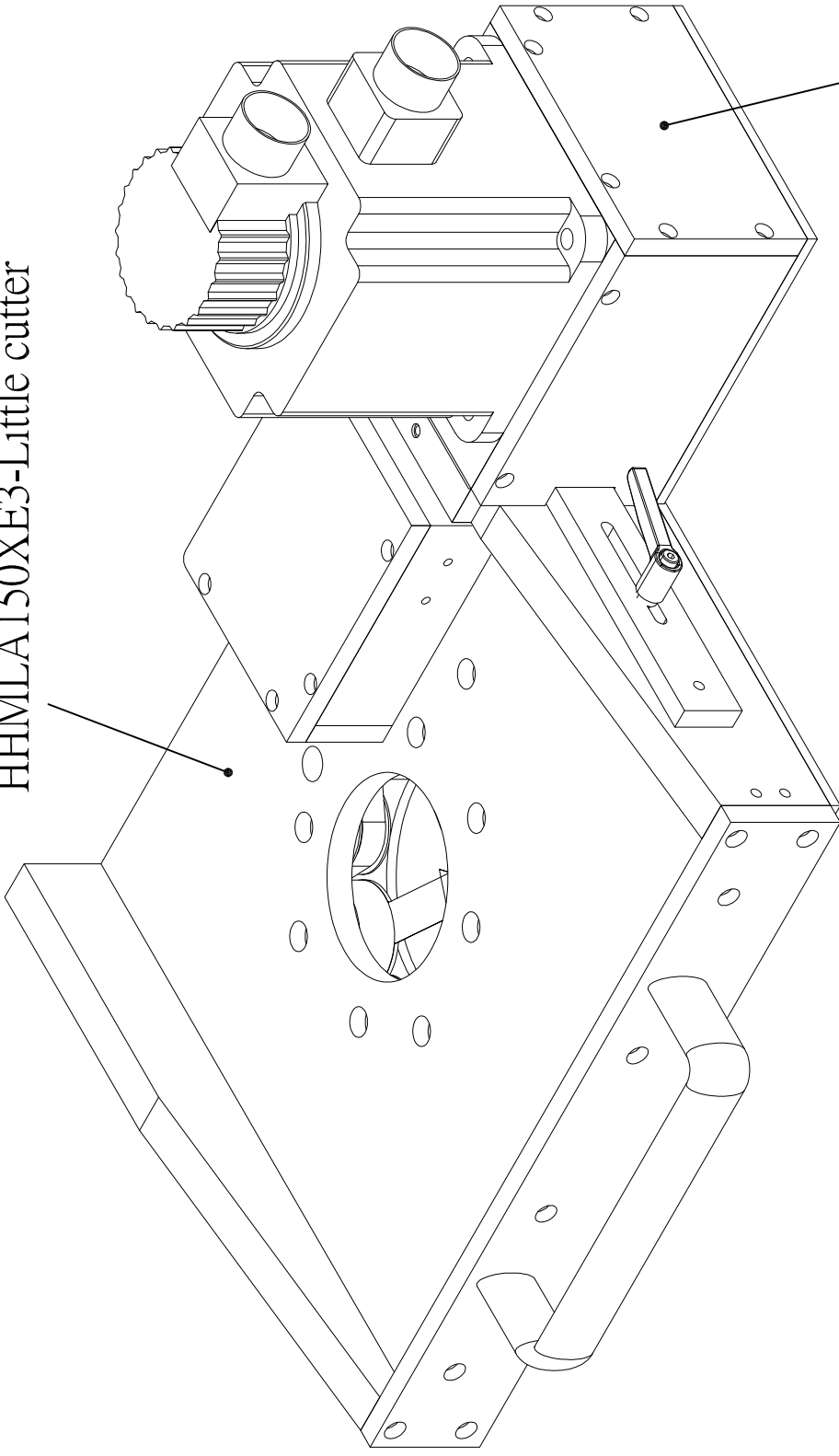
Drawing name	LX350XL-A02
Drawing No	LX350XL-A02

Units	Scale	Date	Check	Design	Draw
MM		2014.06.26			CLAYTON

HHMLA150XE1-Large cutter

HHMLA150XE2-Cutter

HHMLA150XE3-Little cutter

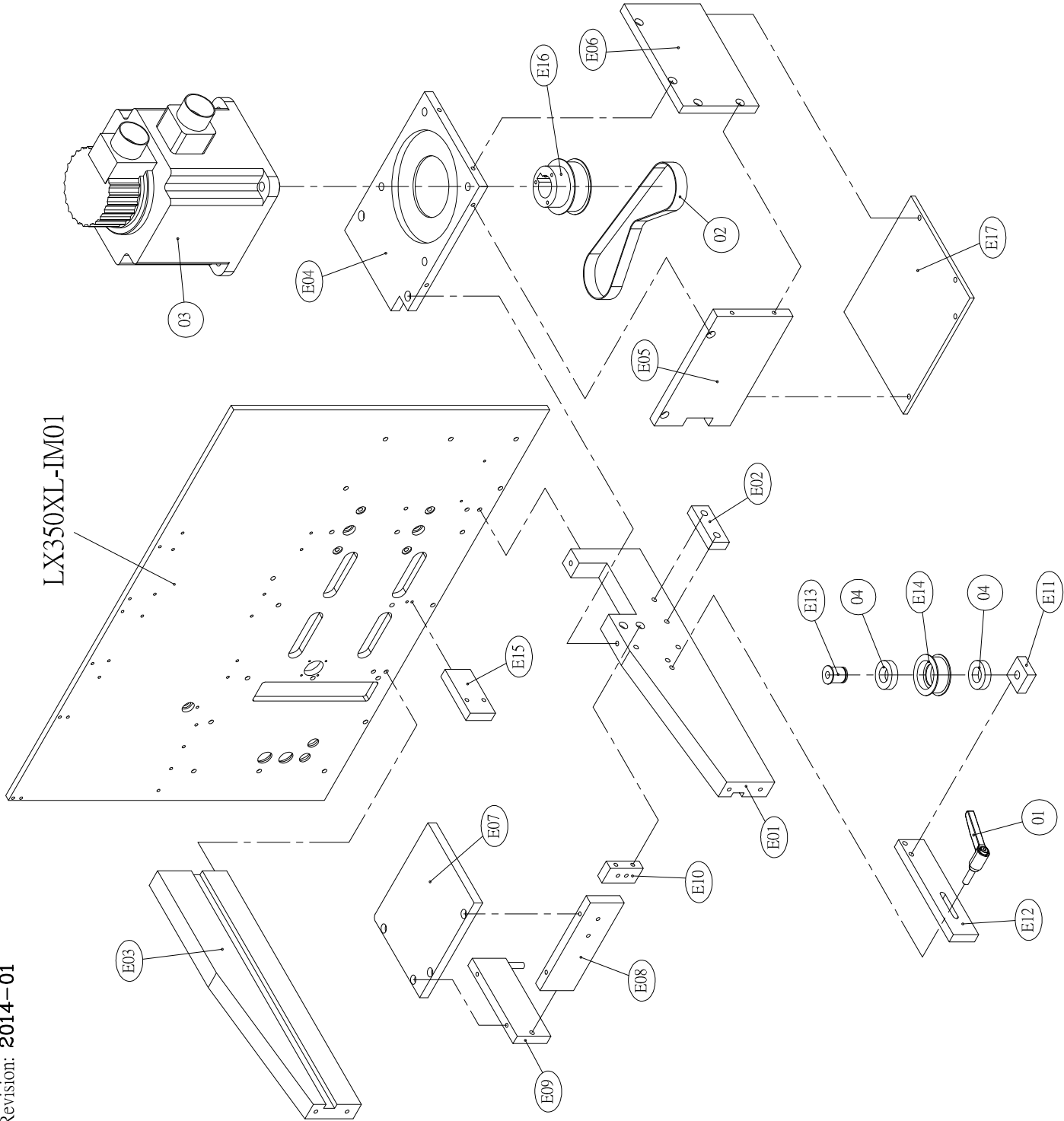


LX350XL-E01

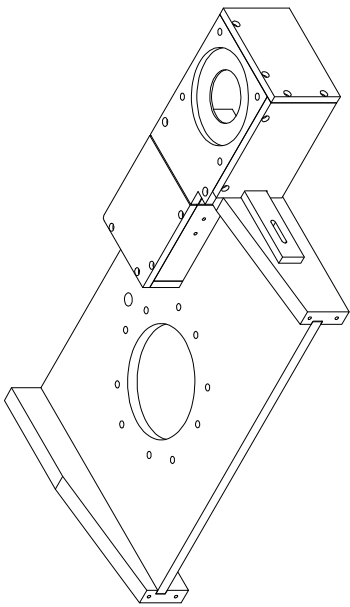
Drawing name	LX350XL-E00	Units	Scale	Date	Check	Design	Draw
Drawing No	LX350XL-E00	MM		2014.06.26			CLAYTON

Revision: 2014-01

LX350XL-IM01

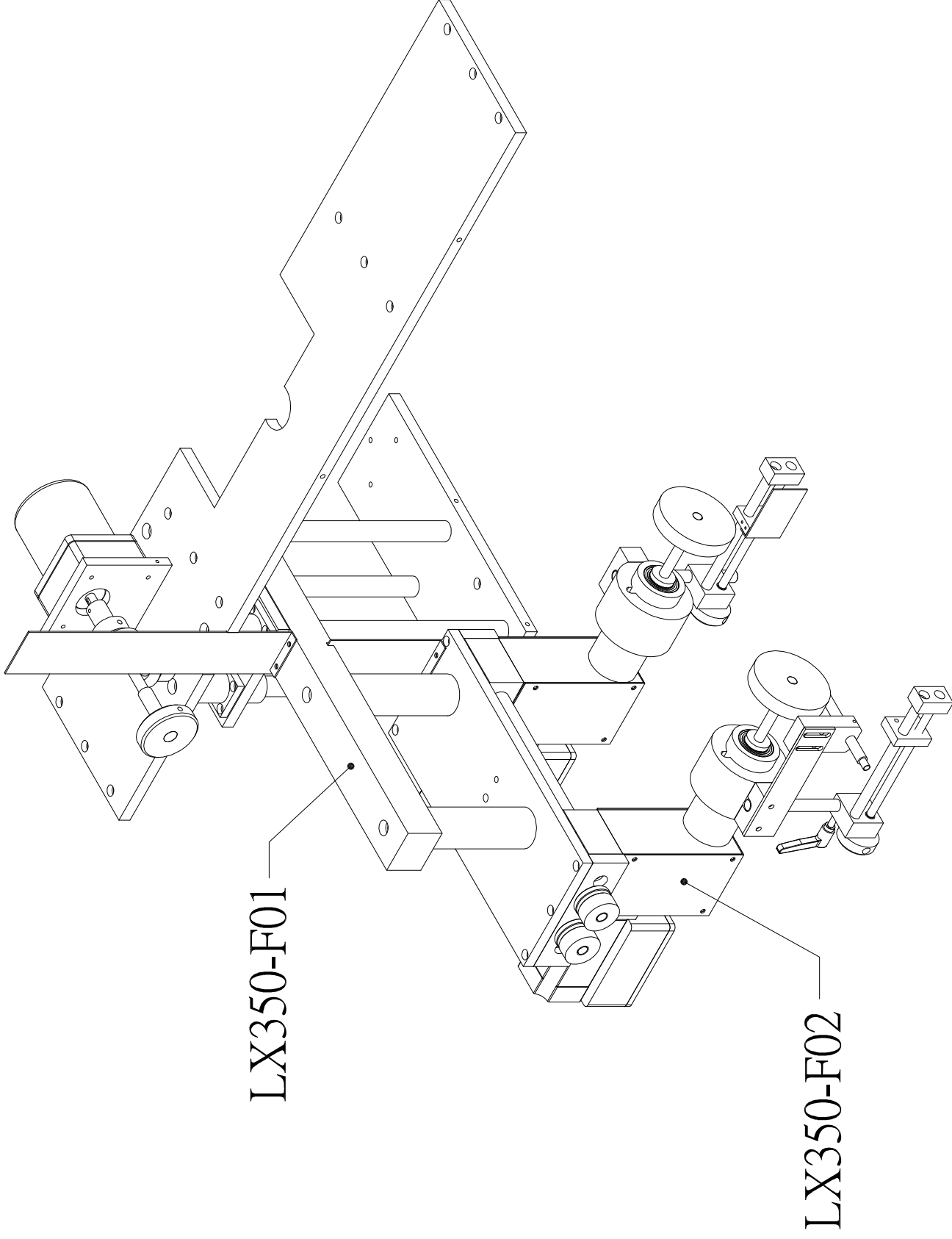


ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5BC02TRT40M6X20	Turn the handle	TRT40 M6X20	1
02	5BB0213X206XL	Timing belt	W=13mm XL, L=206	1
03	5CD36MIDME202GCGM	Servo motor	MDME202CGGM 2KW	1
04	5BE016902ZZ1	Bearings	6902ZZ1 EZO	2



E17	5FD01LA150EC02	Cutter drive wheel cover	LX350XL-EC02	1
E16	5BF05LA150EC01	Cutter motor drive wheel	LX350XL-EC01	1
E15			LX350-EM15	1
E14			LX350-EM14	1
E13			LX350-EM13	1
E12			LX350-EM12	1
E11			LX350-EM11	1
E10			LX350-EM10	1
E09			LX350-EM09	1
E08			LX350-EM08	1
E07			LX350-EM07	1
E06			LX350-EM06	1
E05			LX350-EM05	1
E04			LX350-EM04	1
E03			LX350-EM03	1
E02			LX350-EM02	1
E01			LX350-EM01	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

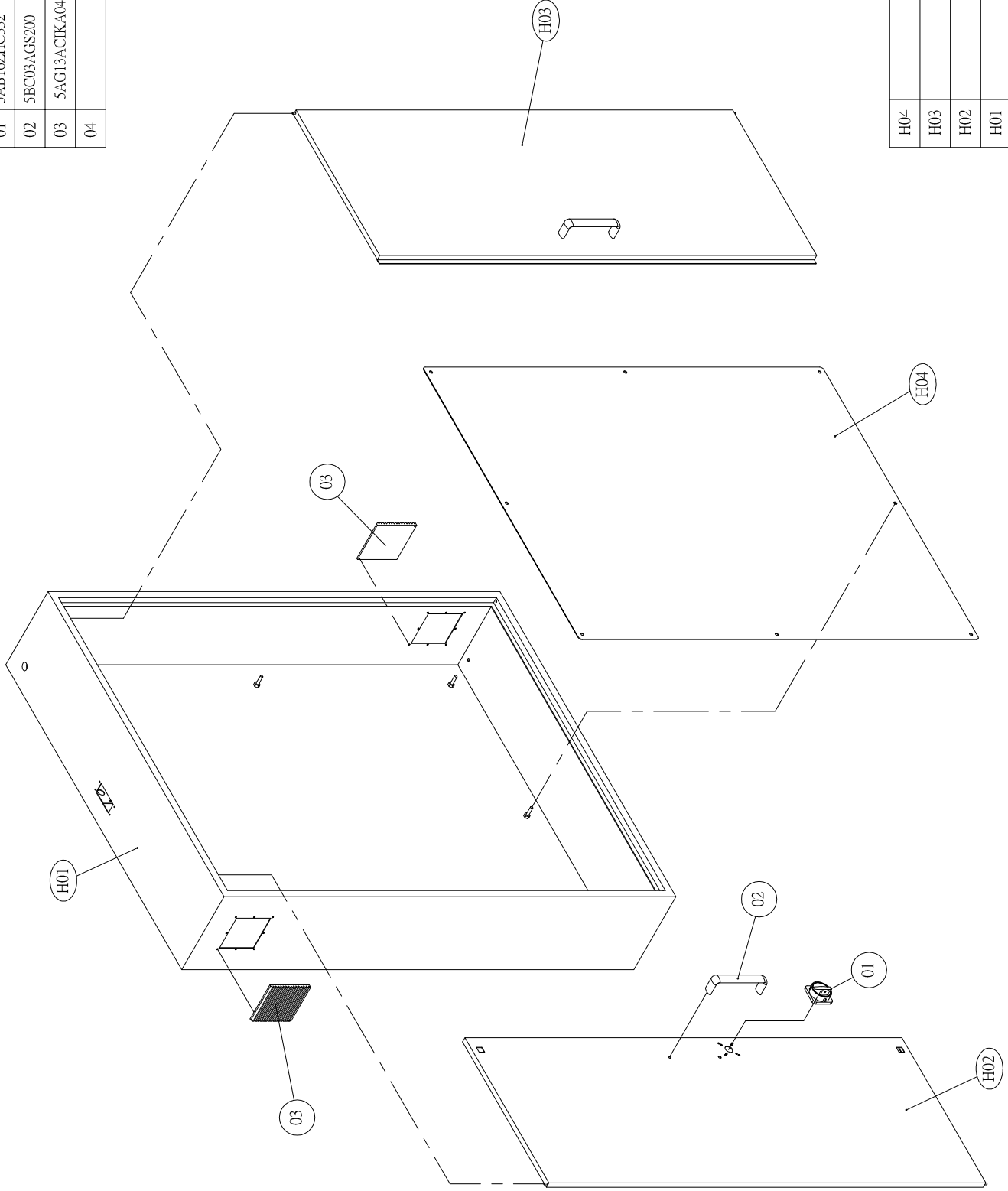
Drawing name	Units	Scale	Date	Check	Design	Draw
LX350XL-A03	MM		2014.06.26			CLAYTON
Drawing No						



Drawing name	Units	Scale	Date	Check	Design	Draw
LX350XL-F00	MM		2014.06.26			CLAYTON
Drawing No						
LX350XL-F00						

Revision: 2014-01

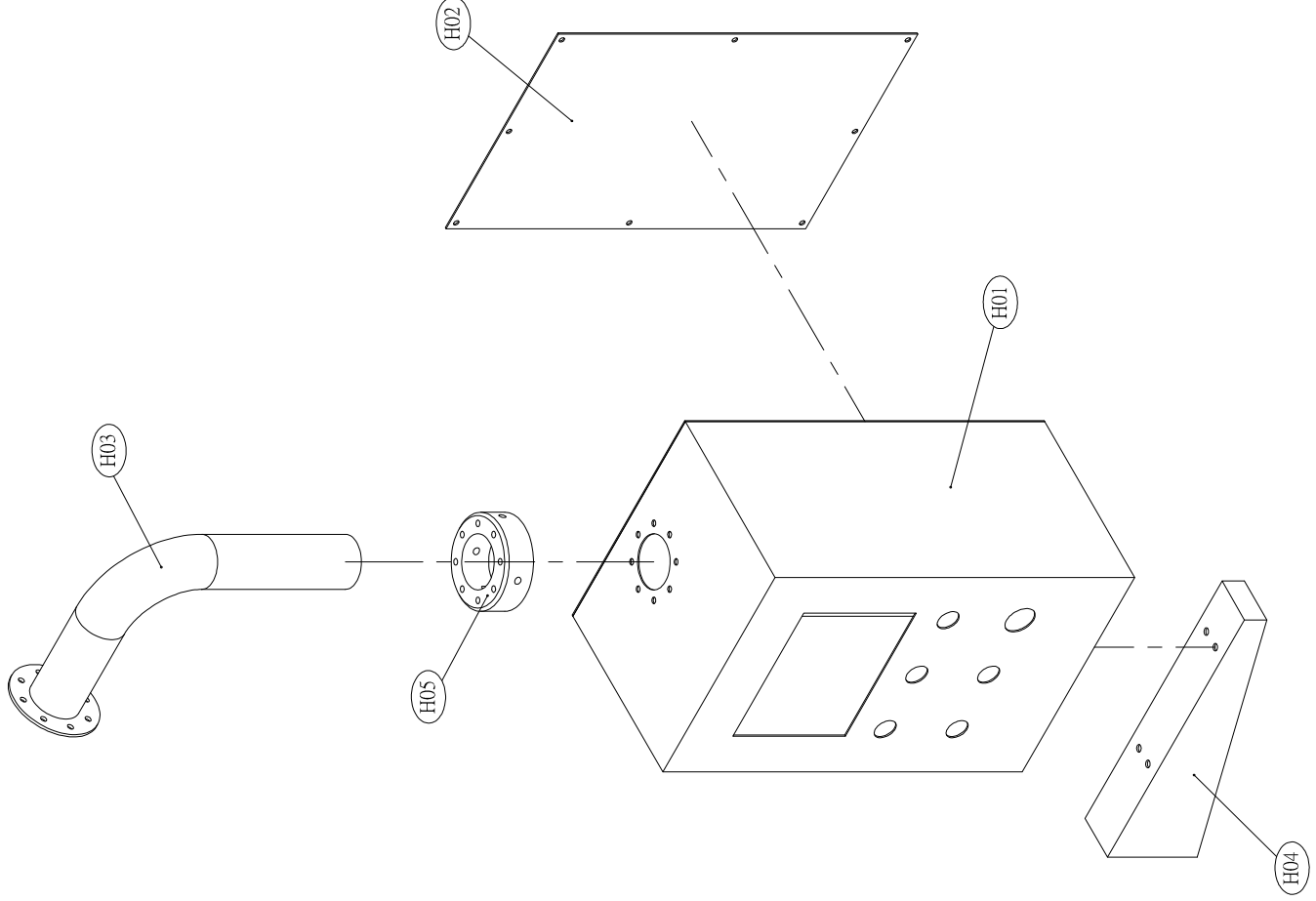
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5AB16ZHC332	Power switch	FCH-ZH-C332 3P32A	1
02	5BC03AGS200	Bow handle	AGS200	2
03	5AG13ACIKA04	Cooling Fan Filter	ACIKA04 4" IP44	2
04				



H04			LX350-HP08	1
H03			LX350-HP07	1
H02			LX350-HP06	1
H01			LX350-HP05	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	LX350XL-H00	Scale		Date		Check		Design		Draw	
Drawing No	LX350XL-H00	Units	MM	Date	2014.06.26	Check		Design		Draw	CLAYTON

Revision: 2014-01

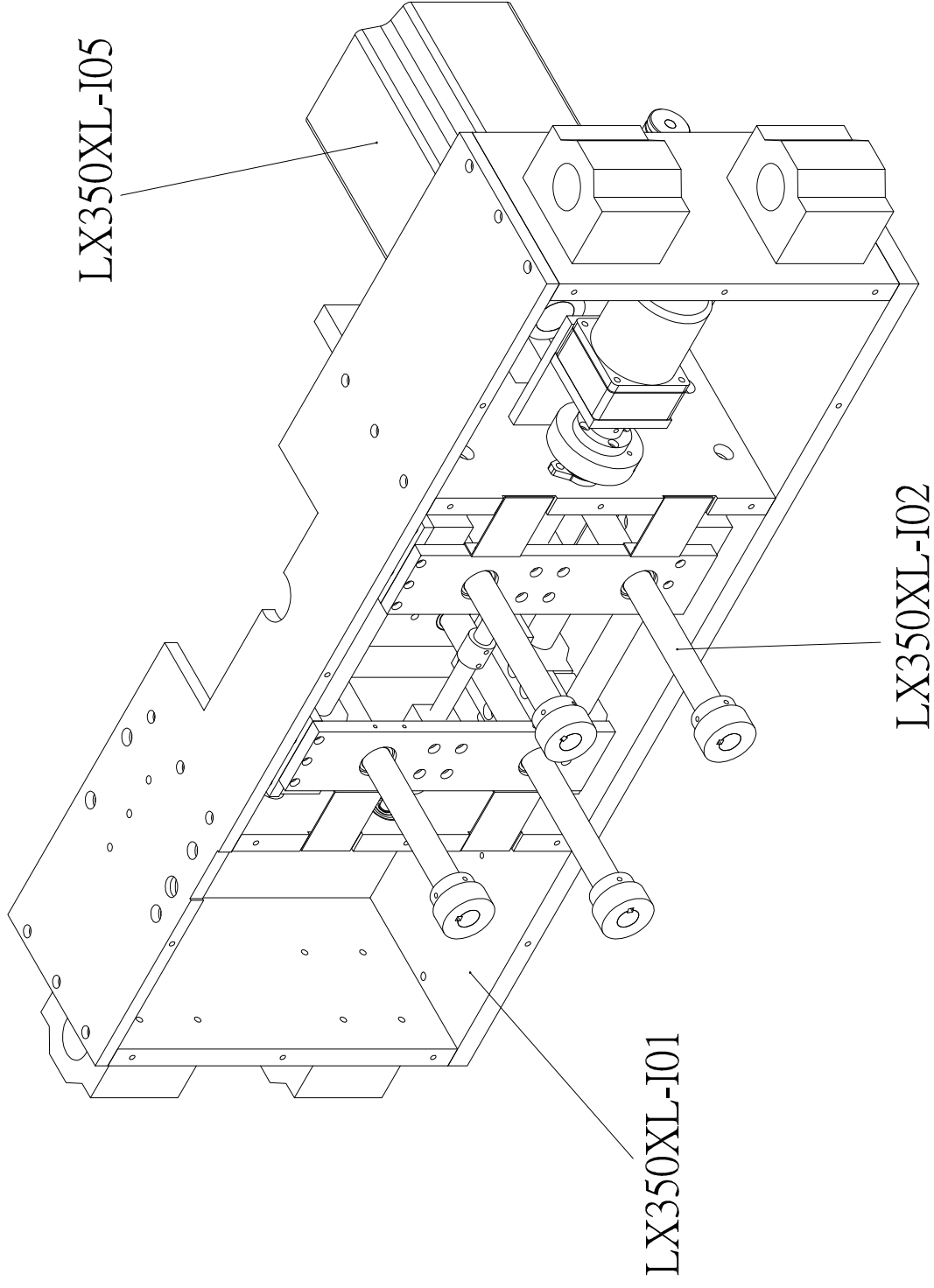


ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01				
02				

H05			LX350-HM01	1
H04			LX350-HP04	1
H03			LX350-HP03	1
H02			LX350-HP02	1
H01			LX350-HP01	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	LX350XL-H01
Drawing No	LX350XL-H01

Units	Scale	Date	Check	Design	Draw
MM		2014.06.26			CLAYTON



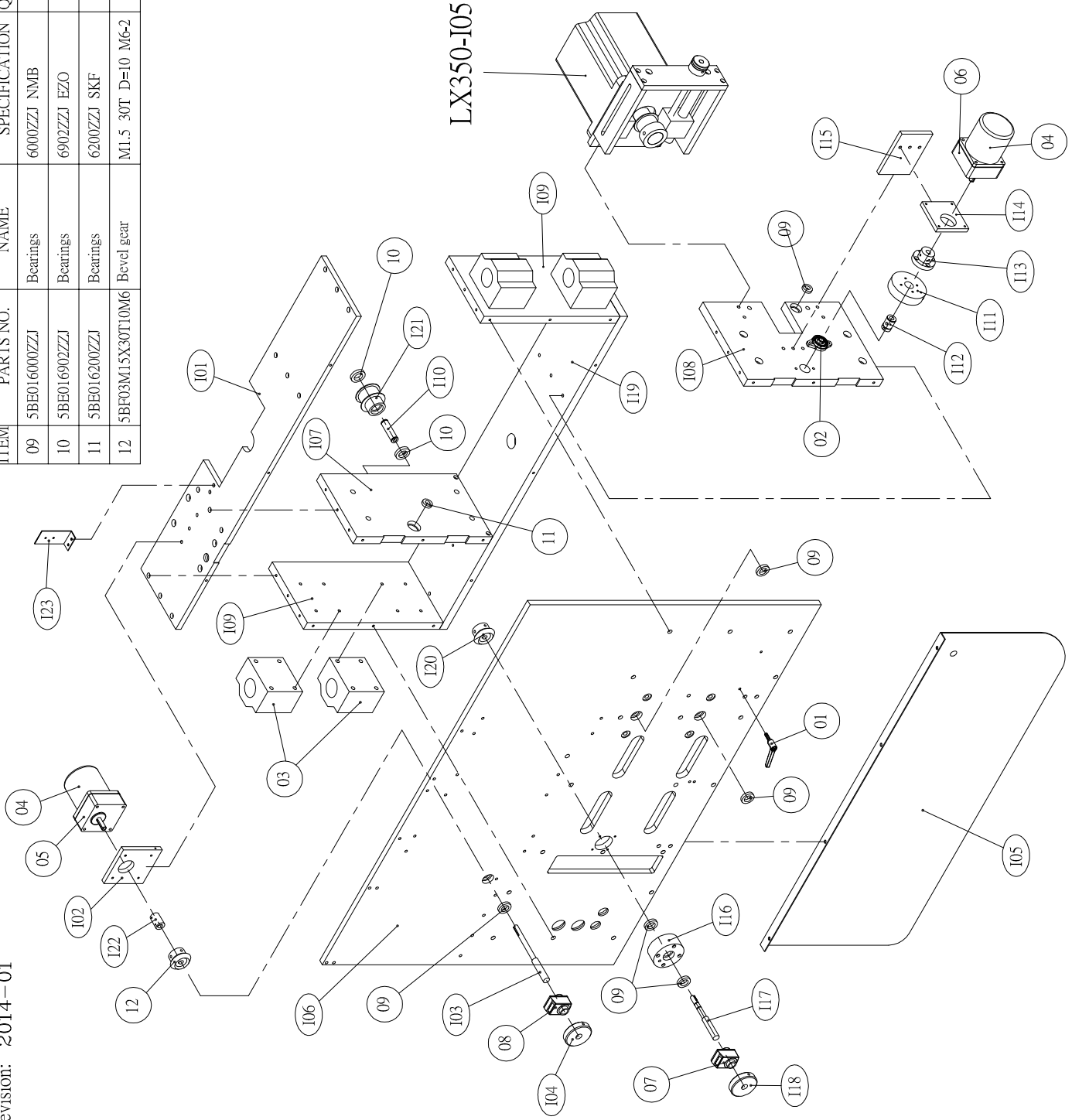
Drawing name	LX350XL-I00	Units	Scale	Date	Check	Design	Draw
Drawing No	LX350XL-I00	MM		2014.06.26			CLAYTON

Revision: 2014-01

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
09	5BE016000ZZJ	Bearings	6000ZZJ NMB	6
10	5BE016900ZZJ	Bearings	690ZZJ EZO	2
11	5BE016200ZZJ	Bearings	6200ZZJ SKF	1
12	5BF03M15X30T10M6	Bevel gear	M1.5 30T D=10 M6-2	1

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5BC02TRT40M8X40	Turn the handle	TRT40 M8X40	1
02	5BE03UFLO00	Bearings	UFLO00	1
03	5BE06SC40UU	Linear ball bearings	SC40UU	4
04	5CB014IK25GNSW2T	Induction motor	4IK25GN-SW2T	2
05	5CB614GN15L	Gearbox	4GN15L	1
06	5CB614GN9KF	Gearbox	4GN9KF	1
07	5BE30DA041210010	Position display	DA0402-100-0-1-RH04-10	1
08	5BE30DA041710010	Position display	DA0404-100-0-1-RH04-10	1

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
123			LX350-FP07	1
122			LX350-FM11	1
121	5BF051L15T20X28		LX350XL-IC05	1
120	5BF03LA150IC01		LX350XL-IC01	1
119			LX350-IM53	1
118			LX350-IM50	1
117			LX350-IM49	1
116			LX350-IM48	1
115			LX350-IM47	1
114			LX350-IM46	1
113			LX350-IM45	1
112			LX350-IM44	1
111			LX350-IM43	1
110			LX350-IM16	1
109			LX350-IM04	2
108			LX350-IM03	1
107			LX350-IM02	1
106			LX350-IM01	1
105			LX350-AP21	1
104			LX350-FM45	1
103			LX350-FM13	1
102			LX350-FM12	1
101			LX350-FM01	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY



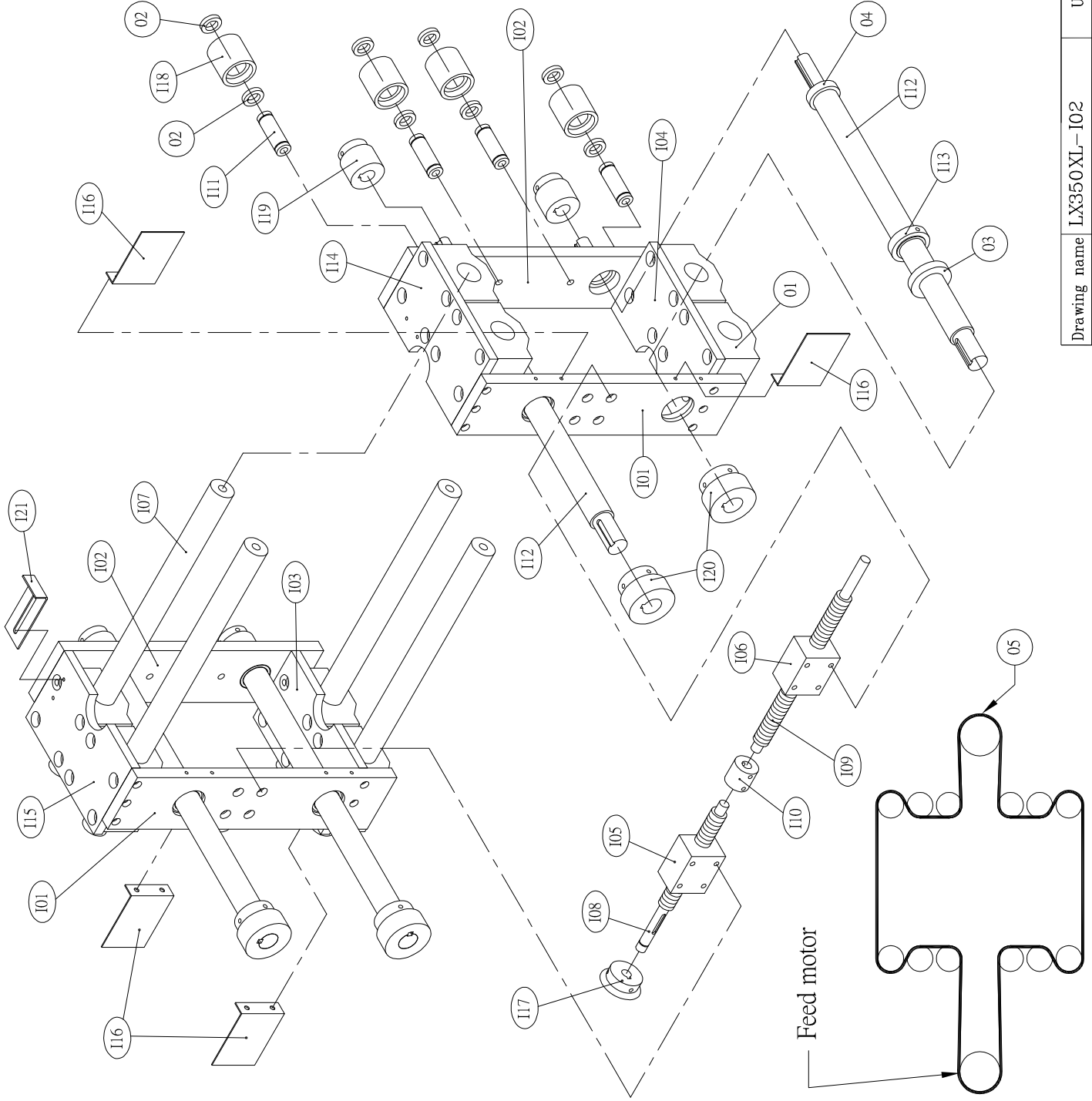
Drawing name LX350XL-I01
Drawing No LX350XL-I01

Units MM
Scale

Date 2014.06.26

Design
Check
Draw
CLAYTON

Revision: 2014-01



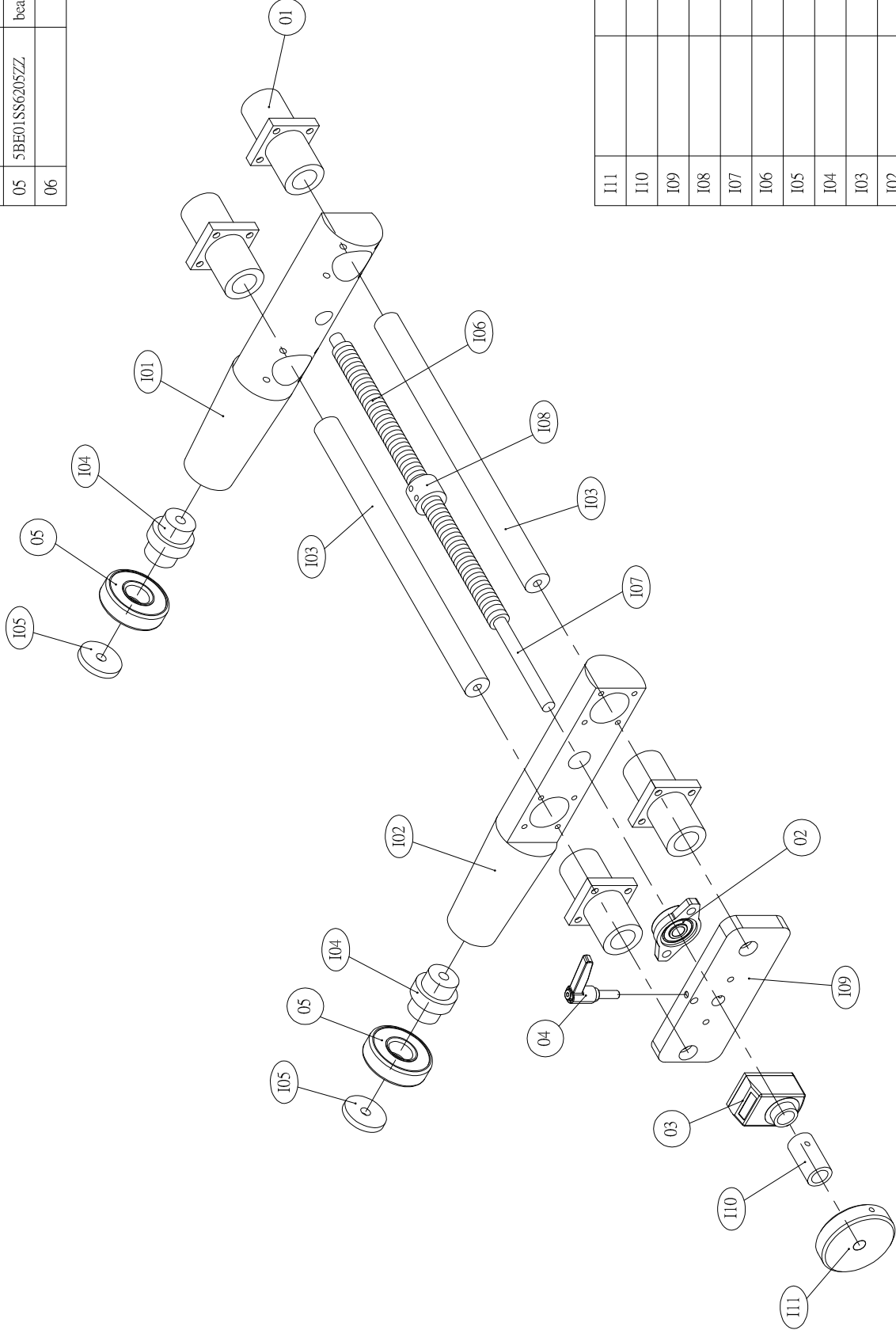
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5BE06SC25UU	Linear ball bearings	SC25UU	8
02	5BE016902ZZJ	Bearings	6902ZZJ EZO	16
03	5BE016905ZZJ	Bearings	6905ZZJ SMT	4
04	5BE016002ZZJ	Bearings	6002ZZJ IBK	4
05	5BB028X697DL	Timing belt	697DL100 L=69.75	1

121			LX350-IP01	1
120	5HFQLA100IC01X1		LX350XL-IC06	4
119	5BF051L12T15M55		LX350XL-IC04	4
118	5BF05LA150IC03		LX350XL-IC03	8
117	5BF03LA150TC01		LX350XL-IC01	1
116			LX350-IP02	4
115			LX350-IM52	1
114			LX350-IM51	1
113			LX350-IM18	4
112			LX350-IM17	4
111			LX350-IM15	8
110			LX350-IM14	1
109			LX350-IM13	1
108			LX350-IM12	1
107			LX350-IM11	4
106			LX350-IM10	1
105			LX350-IM09	1
104			LX350-IM08	1
103			LX350-IM07	1
102			LX350-IM06	2
101			LX350-IM05	2
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	Units				
LX350XL-102	MM				
Drawing No	Scale	Date	Check	Design	Draw
LX350XL-102		2014.06.26			CLAYTON

Revisoin:2014-01

ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5BE06CFP120	Linear bearings	CFP120	4
02	5BE03UFL000	bearings	UFL000	1
03	5BE30DA041210010	Position display	DA0402-100-0-I-RH04-10	1
04	5BC02TRT40M6X20	Turn the handle	TRT40 M6X20	1
05	5BE01SS6205ZZ	bearings	SS-6205ZZ	2
06				

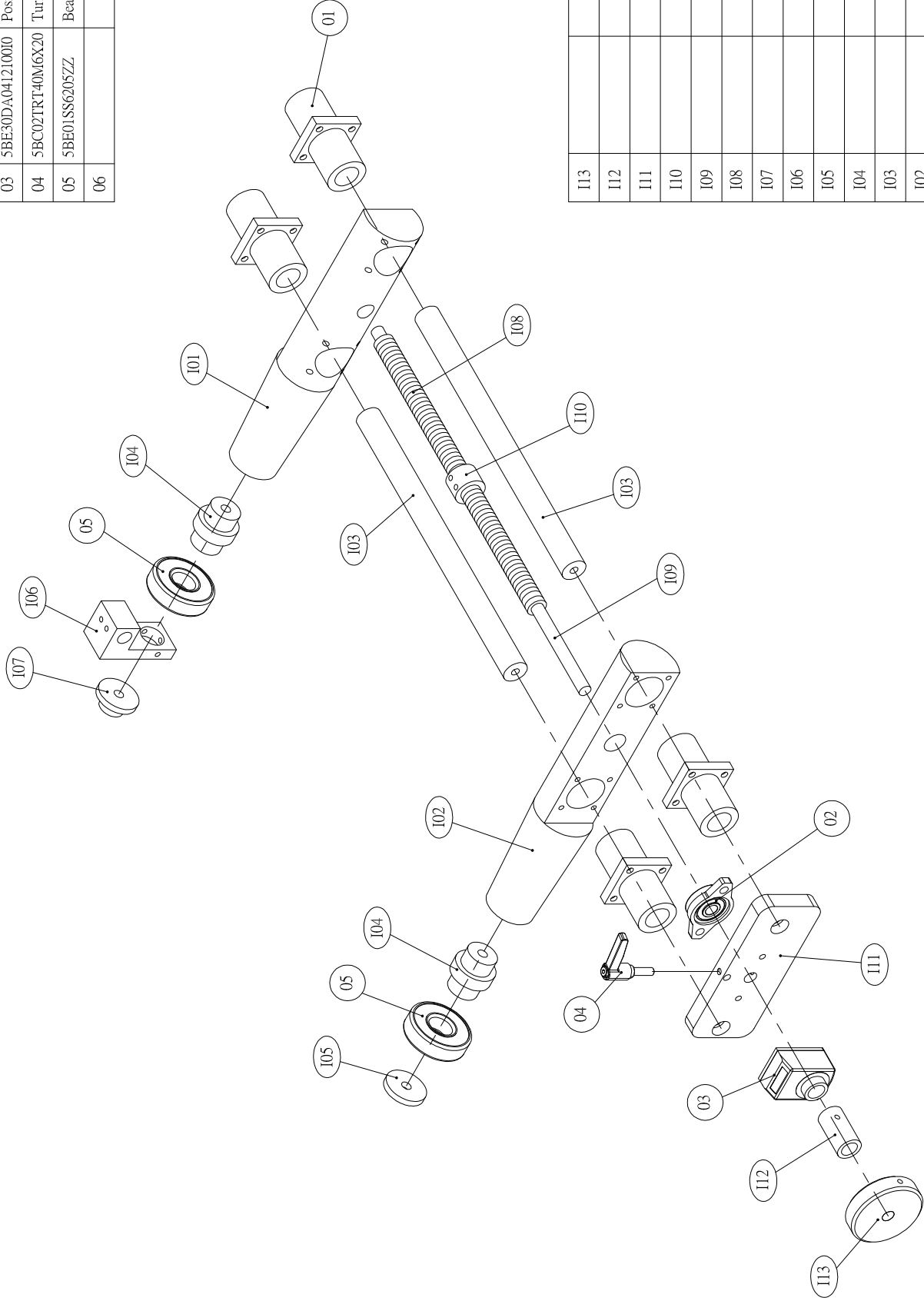


111			LX350-IM31	1	
110			LX350-IM30	1	
109			LX350-IM29	1	
108			LX350-IM28	1	
107			LX350-IM27	1	
106			LX350-IM26	1	
105			LX350-IM23	2	
104			LX350-IM22	2	
103			LX350-IM21	2	
102			LX350-IM20	1	
101			LX350-IM19	1	
ITEM		PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	LX350XL-103	Units	MM	Date	2014.06.26	Design	CLAYTON	Draw	CLAYTON
Drawing No	LX350XL-103	Scale		Check					

Revision: 2014-01

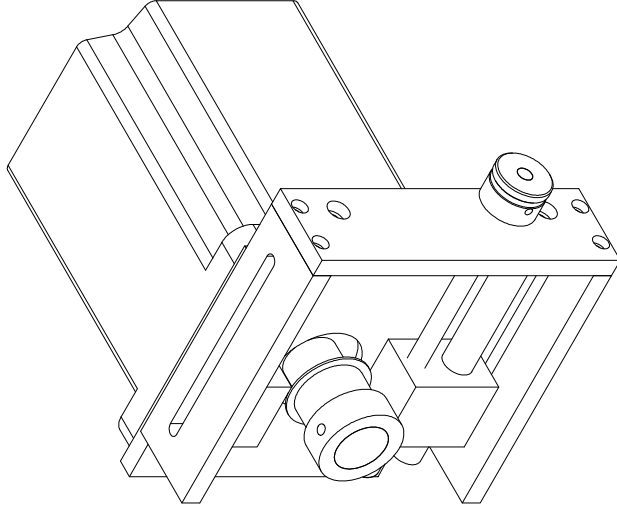
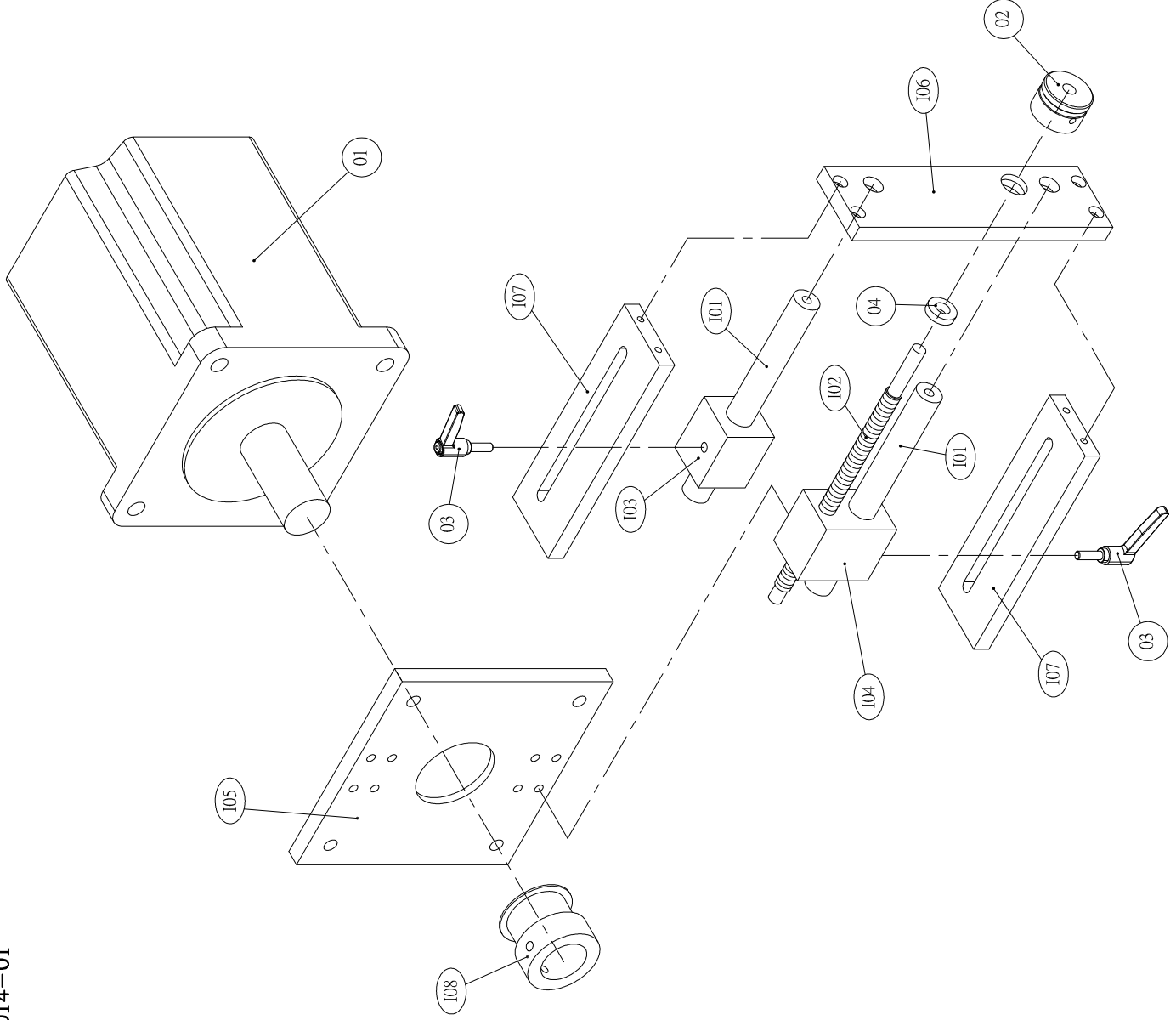
01	5BE06CFP120	Linear bearings	CFP120	4
02	5BE03UFL000	Bearings	UFL000	1
03	5BE30DA041210010	Position display	DA0402-100-0-I-RH04-10	1
04	5BC02TRT40M6X20	Turn the handle	TRT40 M6X20	1
05	5BE01SS6205ZZ	Bearings	SS-6205ZZ	2
06				



I13	LX350-IM31	1
I12	LX350-IM30	1
I11	LX350-IM29	1
I10	LX350-IM28	1
I09	LX350-IM27	1
I08	LX350-IM26	1
I07	LX350-IM25	1
I06	LX350-IM24	1
I05	LX350-IM23	1
I04	LX350-IM22	2
I03	LX350-IM21	2
I02	LX350-IM20	1
I01	LX350-IM19	1
ITEM	PARTS NO.	NAME
		SPECIFICATION QTY

Drawing name	LX350XL-104	Scale		Date	2014.06.26	Design		Draw	
Drawing No	LX350XL-104	Units	MM						CLAYTON

Revision:2014-01

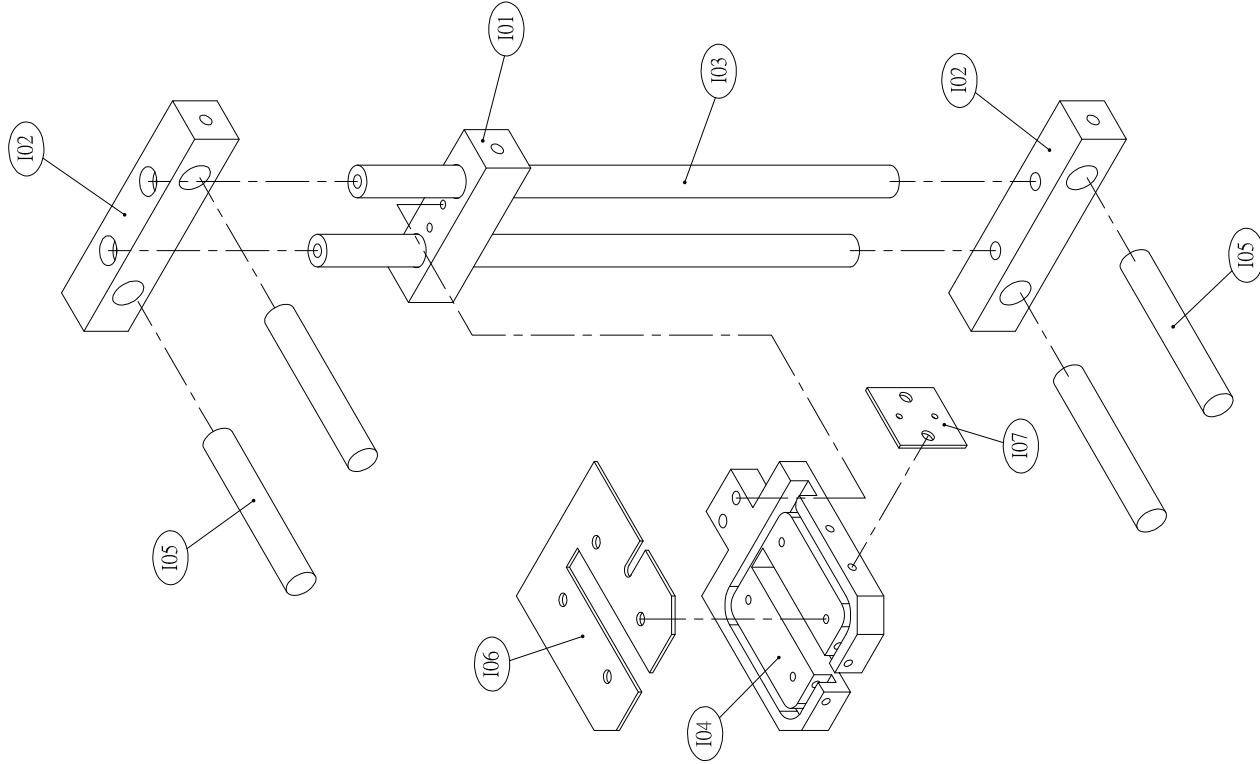


ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5CD36MDME202GCGM	Servo motor (food)	MDME202GCGM 2KW	1
02	5BC217011X37XB10	Scale ring	7011-37-B10 ϕ 37 D=10	1
03	5BC02TRT40M8X40	Turn the handle	TRT40 M8X40	2
04	5BE016000ZZ1	Bearings	6000ZZ1 NMB	1
05				

108	5BF05LX350IC02		LX350XL-IC02	1
107			LX350-IM54	2
106			LX350-IM37	1
105			LX350-IM36	1
104			LX350-IM35	1
103			LX350-IM34	1
102			LX350-IM33	1
101			LX350-IM32	2
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	LX350XL-105	Scale		Date	2014.06.26	Check	Design	Draw
Drawing No	LX350XL-105	Units	MM					CLAYTON

Revision: 2014-01



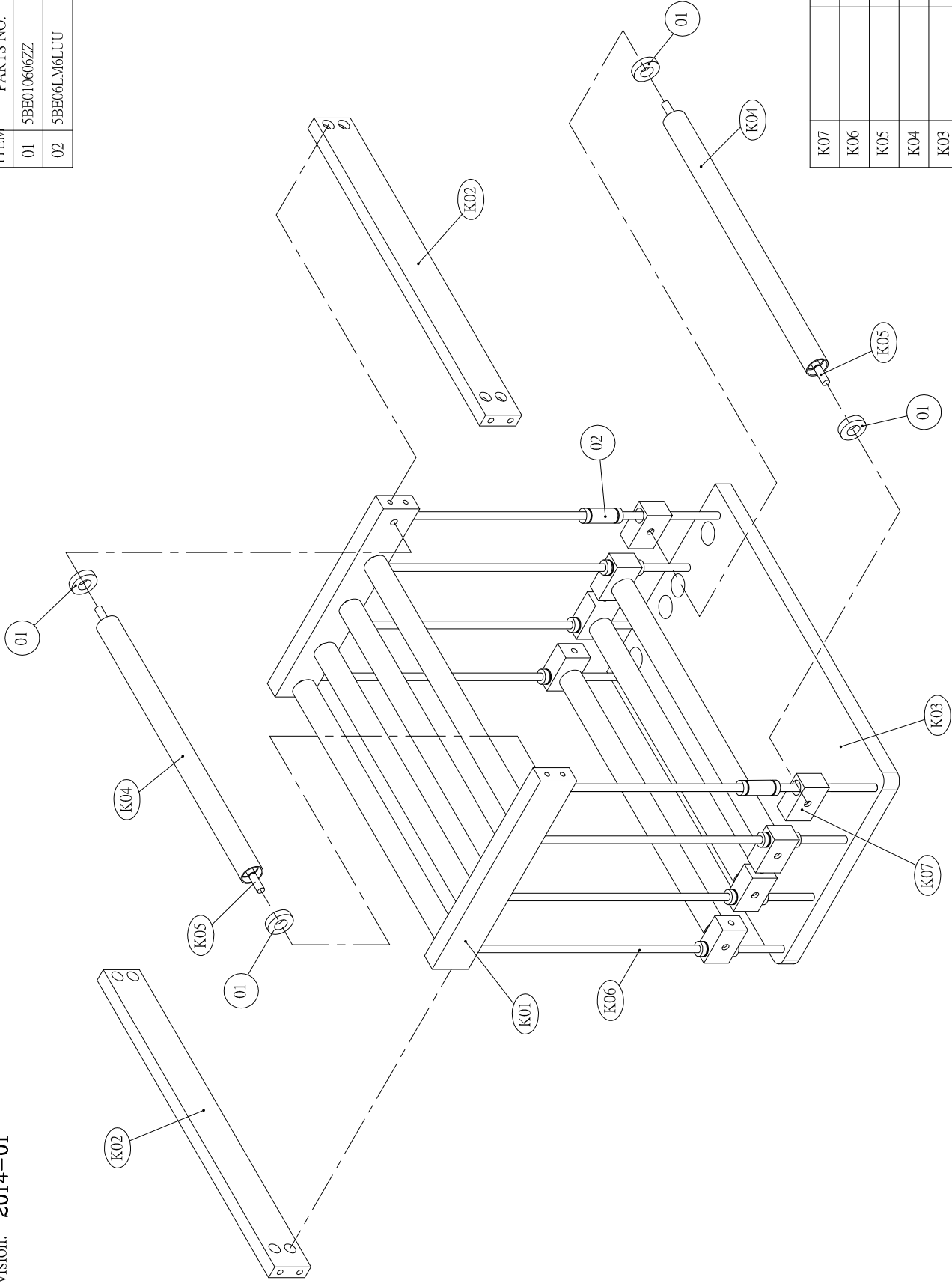
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01				
02				
03				

I07			LX350-IP04	1
I06			LX350-IP03	1
I05			LX350-IM42	4
I04			LX350-IM41	1
I03			LX350-IM40	2
I02			LX350-IM39	2
I01			LX350-IM38	1
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	Scale	Units	Date	Check	Design	Draw
LX350XL-I06		MM	2014.06.26			CLAYTON
Drawing No						

Revision: 2014-01

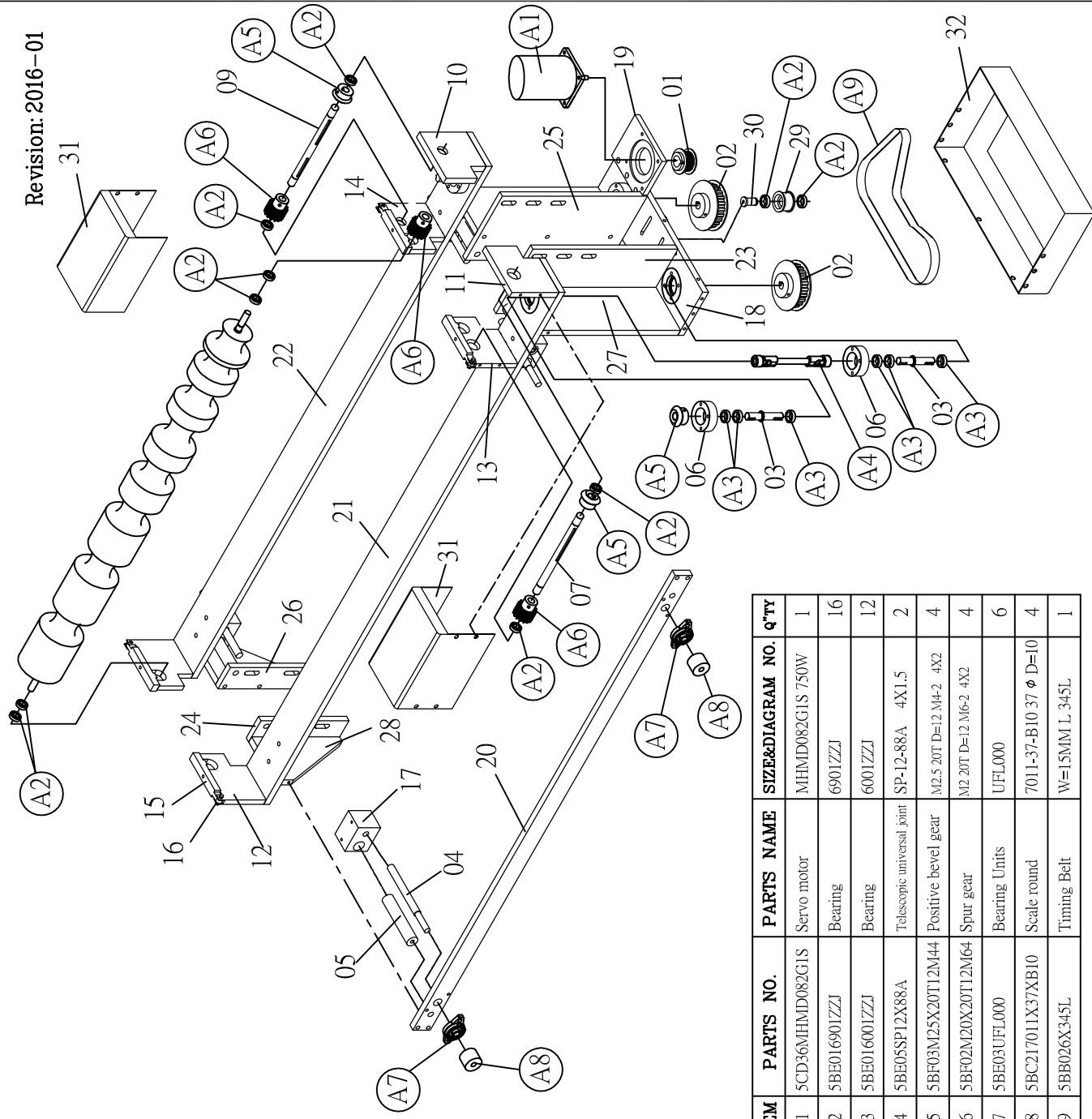
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY
01	5BE010606ZZ	Bearings	606ZZ	18
02	5BE06LM6LUU	Linear bearings	LM6LUU	8



K07	LX350-KM07	8		
K06	LX350-KM06	8		
K05	LX350-KM05	9		
K04	LX350-KM04	9		
K03	LX350-KM03	1		
K02	LX350-KM02	2		
K01	LX350-KM01	2		
ITEM	PARTS NO.	NAME	SPECIFICATION	QTY

Drawing name	Scale	Date	Check	Design	Draw
LX350XL-K00		2014.06.26			
Drawing No	Units				
LX350XL-K00	MM				CLAYTON

Revision: 2016-01



ITEM	PARTS NO.	PARTS NAME	SIZE&DIAGRAM NO.	Q'TY
01	5BF0517L12T19M56	Timing wheel	LA150XL2-LC01	1
02	5BF0517L24T12M54	Timing wheel	LA150XL2-LC02	2
03		Heart shaft	LA150XL2-LM01	4
04		Width adjustment lever	LA150XL2-LM02	4
05		Guide rod	LA150XL2-LM03	4
06		Axial holder	LA150XL2-LM04	4
07		Heart shaft-1	LA150XL2-LM05	1
08				
09		Heart shaft-2	LA150XL2-LM07	1
10		Fixing plate	LA150XL2-LM08	1
11		Fixing plate-1	LA150XL2-LM09	1
12		Fixing plate-2	LA150XL2-LM10	2
13		Fixing plate-3	LA150XL2-LM11	1
14		Fixing plate-4	LA150XL2-LM12	1
15		Fixed block	LA150XL2-LM13	4
16		Axial	LA150XL2-LM14	4
17		Screw adjustment block	LA150XL2-LM15	4
18		Timing pulley retainer	LA150XL2-LM16	1
19		Motor fixing plate	LA150XL2-LM17	1
20		Handwheel fixing plate	LA150XL2-LM18	2
21		Adjusting plate-1	LA150XL2-LM19	1
22		Adjusting plate-2	LA150XL2-LM20	1
23		Adjust fixed plate	LA150XL2-LM21	1
24		Adjust fixed plate-1	LA150XL2-LM22	1
25		Adjust fixed plate-3	LA150XL2-LM23	1
26		Adjust fixed plate-4	LA150XL2-LM24	1
27		Fixing plate-1	LA150XL2-LM25	2
28		Fixing plate-2	LA150XL2-LM26	2
29		Packing wheel	LA150XL2-LM27	2
30		Axial	LA150XL2-LM28	2
31		Shield	LA150XL2-LP01	2
32		Shield-3	LA150XL2-LP02	1

ITEM	PARTS NO.	PARTS NAME	SIZE&DIAGRAM NO.	Q'TY
A1	5CD36VHMID082GIS	Servo motor	MHMD082GIS 750W	1
A2	5BE016901ZZJ	Bearing	6901ZZJ	16
A3	5BE0160001ZZJ	Bearing	6001ZZJ	12
A4	5BE0SP12X88A	Telescopic universal joint	SP-12-88A 4X1.5	2
A5	5BF03M25X20T12M44	Positive bevel gear	M2.5 20T D=12 M4-2 4X2	4
A6	5BF02N20X20T12M64	Spur gear	M2 20T D=12 M6-2 4X2	4
A7	5BE03UFL000	Bearing Units	UFL000	6
A8	5BC217011X37XB10	Scale round	7011-37-B10 37 φ D=10	4
A9	5BB026X345L	Timing Belt	W=15MM L 345L	1

Drawing name	SCREW	Units	Scale	Date	Check	Design	Draw
Drawing No		MM		2016.09.22			Sunny