



**WHITTAKER
PACKAGING
SOLUTIONS**

PALLET STRETCH WRAPPING

MACHINE MODEL: WP-555-AA

OPERATION MANUAL

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1. GENERAL INFORMATION

1.1 NOTE OF INSTALLATION

To make sure a safe and correct operation, please check below conditions before install the machine:

- 1) Power source capacity must be equal of the machine need.
- 2) Machine standard power is 110v/220v (+- 10%)
- 3) Machine standard power Hertz is 50/60 Hz. (+- 2%)
- 4) Machine is workable under the temperature between 0°C - 45°C
- 5) Make sure the wire is tidy on the ground.
- 6) There should not have vibration beside the machine during the installation, and make sure the ground is flat.
- 7) Read and follow the instruction of the installation.

1.2 NOTICE OF OPERATION

To have good protection for the operator, please make sure the following conditions:

- 1) Before operating, please read the machine operational manual carefully.
- 2) Make sure there is no object put on the power cable.
- 3) Make sure there is no object put on the upper carriage unit.
- 4) Avoid any damp object or water around the electric parts.
- 5) Avoid film winded into the turntable.
- 6) Do not stand on or across the machine during operation.
- 7) When problem occurs, please check the section of 5 Trouble shooting

2. SPECIFICATION

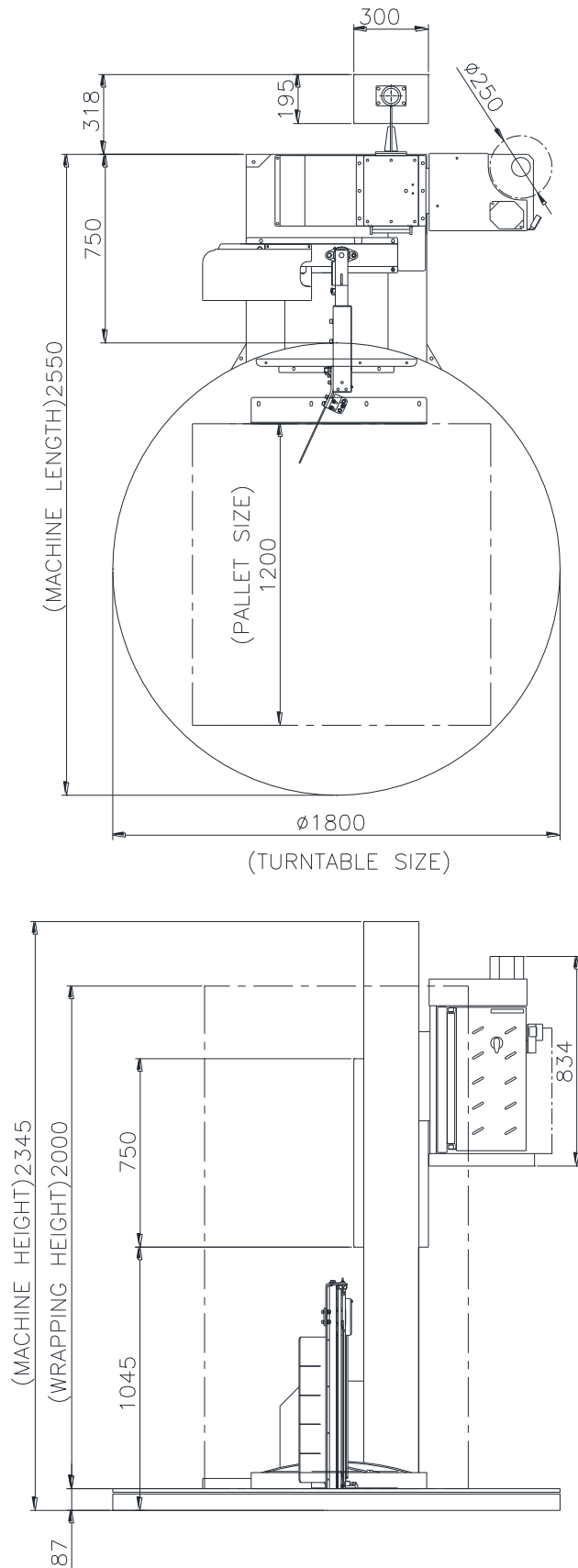
2.1 SPEC. TABLE

Model	WP-555-AA
Turntable Speed	0 –12 RPM
Turntable diameter	1800mm
Max wrapping height	2000mm
Pallet size	1200x1200mm
Pallet diagonal	Max. 1800mm
Max loading weight	2000kgs
Film stretch (%)	300% & 230% toggle switch by handle (250% and 200% option)
Film tension	Adjustable
Carriage Unit speed	Adjustable
Max. film spec.	§ 250x500mm
Turntable height	87mm
Machine size	2550x1800x2345mm
Machine net weight	664kg

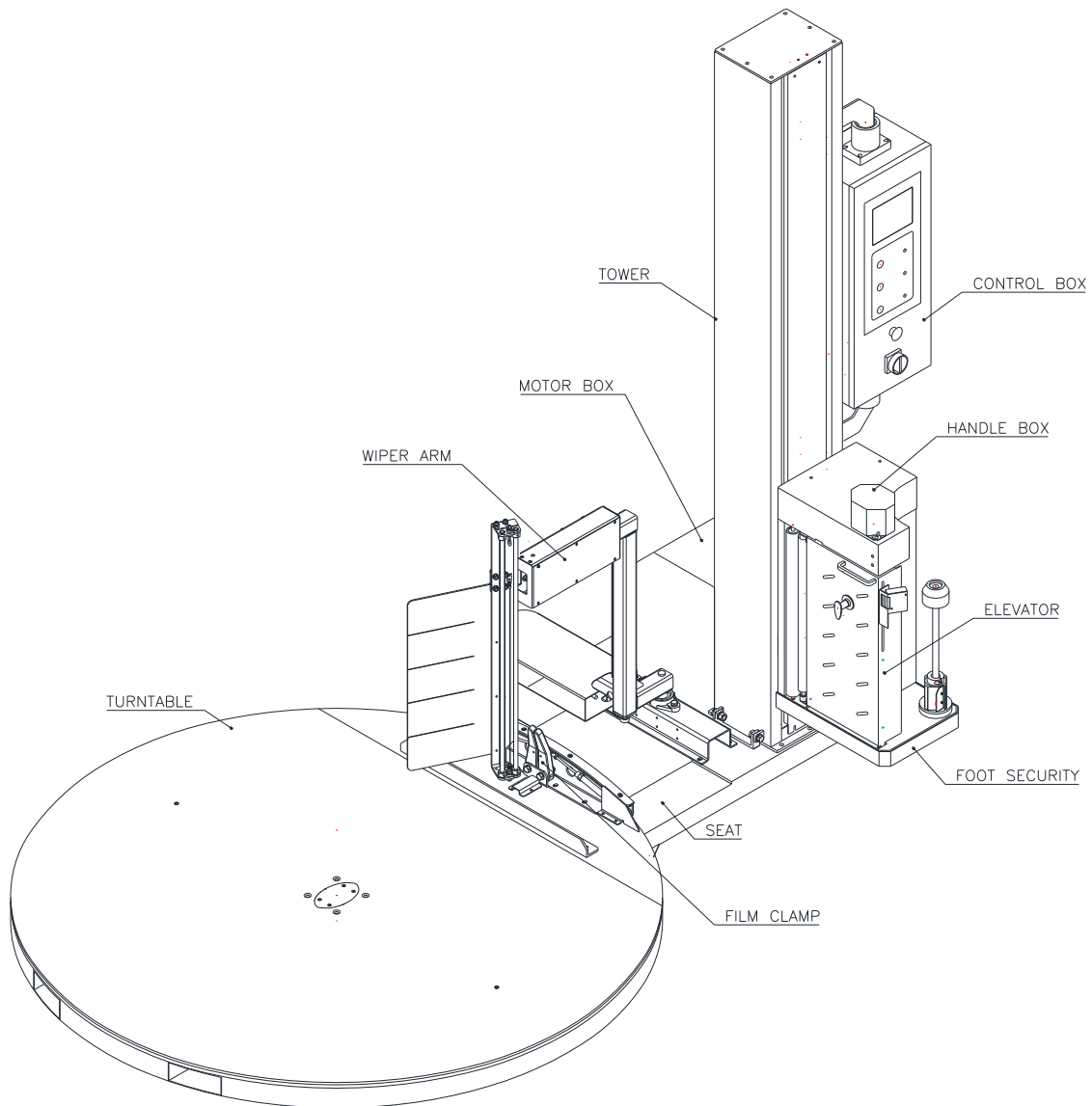
Standard option:

- ❖ 2.5 & 3.0 meters wrapping height
- ❖ Top pressure plate driven by motor
- ❖ Ramp

2.2 MACHINE DIMENSION



2.3 MACHINE DESCRIPTION



3. OPERATION DESCRIPTION

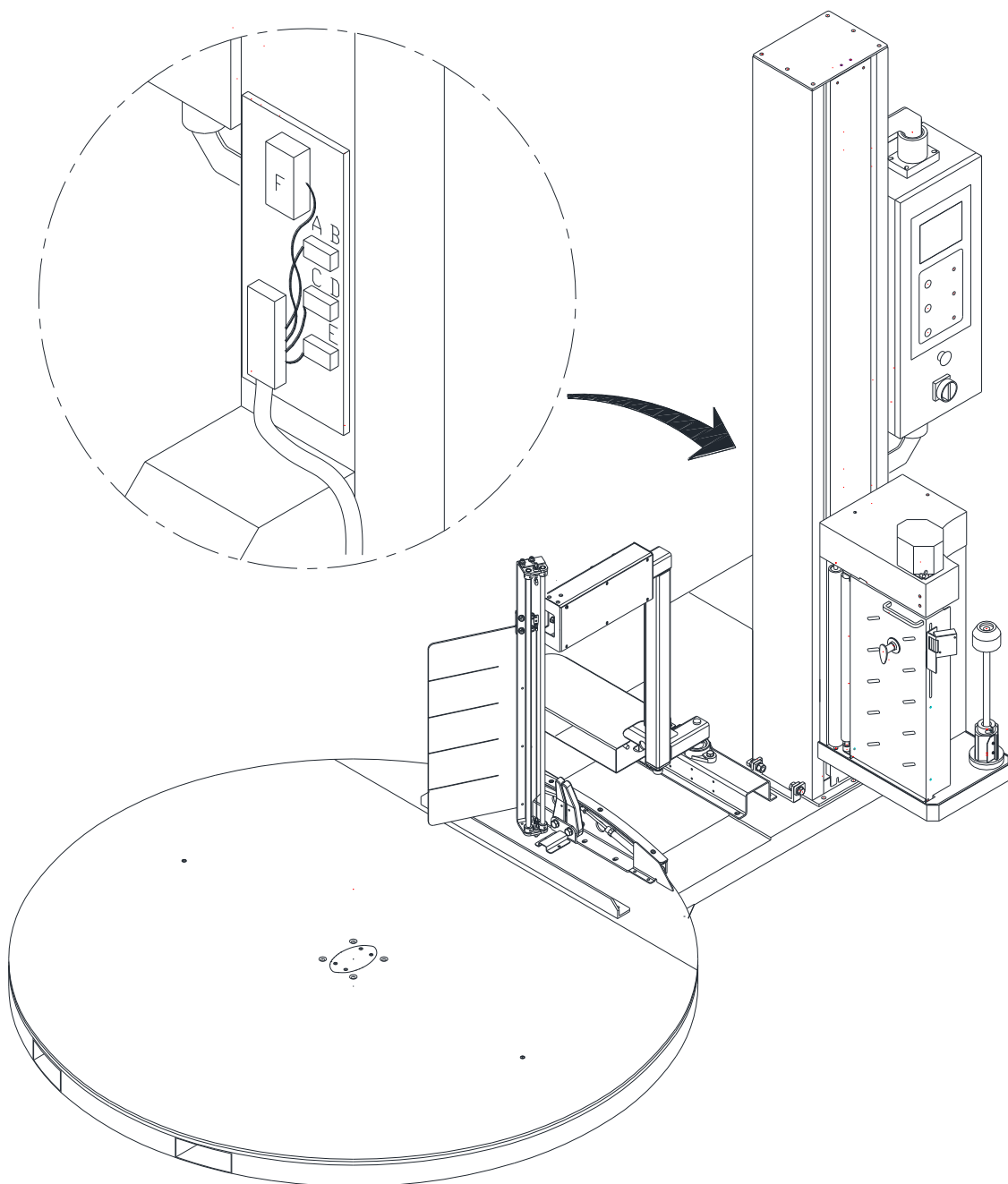
3.1 INSTALLATION

Upon arrival, visually inspect machine for damage caused in transport. If any damages occurred, it must be reported to the freight carrier IMMEDIATELY. If no damages, carefully remove all packaging material.

It is very important that all machines should be placed on as level a surface as possible.

To ensure the machine is correctly set-up, please refer to the illustration and follow the procedures.

1. Install the control box.
2. fix the lower parts of supporting tubes
3. install control box
4. fix the upper parts of supporting tubes
5. Lift up the tower. Fix and tighten the left bottom side of the tower with 3 * M10 screws.
6. Connect wires as shown on the drawings.
7. Install the wiper arm.
8. Connect to pneumatics supply system
9. After all the above procedures are done correctly, you may switch on the machine.



3.2 REMINDER OF INSTALLATION

There are some issues operators need to pay attention on:

Tower Installation

Engineers must ensure all six screws are properly installed underneath the tower, and evenly lay out.

Control Panel Installation

Engineers must make sure the bottom-supporting arm is installed properly to the tower with four screws and carefully fitted the tower on to the bottom-supporting arm then installed the top-supporting arm, on top of the Control Panel. After the installation is done, make sure, the Control Panel is 180 degree turnable.

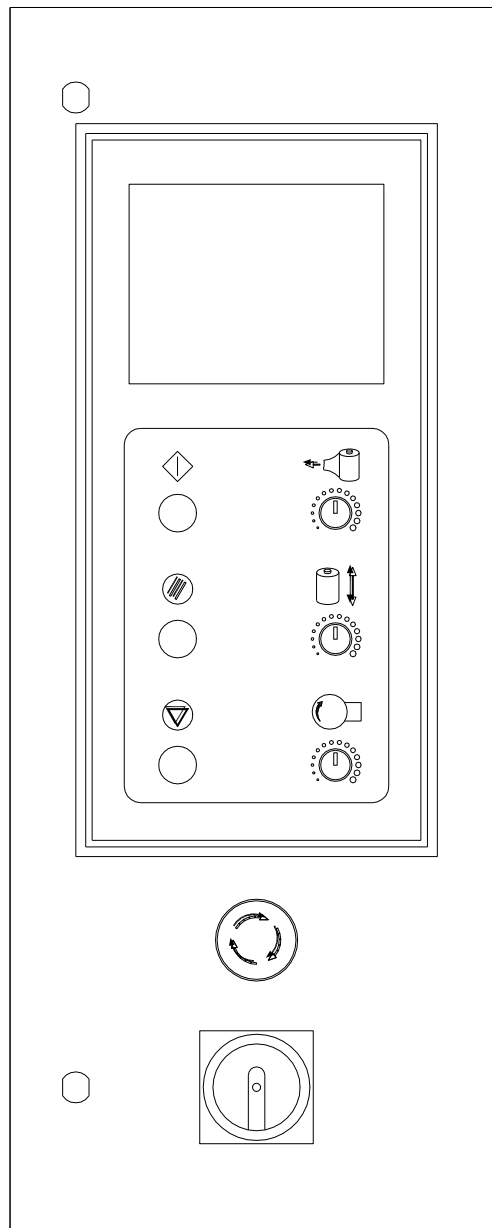
Control Wires and Connections

On the bottom side of the Control Panel, there is one black tube, with wires inside; carefully clipped the tube to clips on the tower and follow all the way down to the machine base.

Motor Cover

After all the connections are complete, please carefully install the motor cover to cover up all the wire connections and the motor on the base of the machines.

3.3 OPERATION OF CONTROL PANEL



3.4 OPERATION DESCRIPTION



START BUTTON

Press this button to start operation.

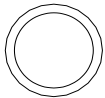


Note: After all of function been setting press this button to re start the program



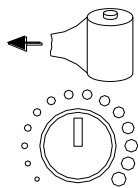
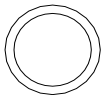
RESET BUTTON

Pressing the button, all operation is released and the machine returns to natural status.



PAUSE BUTTON

Press the button; the machine will be stop whether it is under automatic or manual mode. Press the START button to complete the rest program.



FILM TENSION ADJUSTMENT

It is the control knob for wrapping tension.

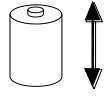
Turn the knob clockwise to increase the tension.

Turn the knob anticlockwise to decrease the tension.

NOTE: 1) Turntable speed and wrap tension can be adjusted individually.

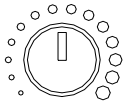
2) Wrapping tension on the package edge and side are the same

3) After setting the wrapping tension, it is suitable for any package and no need to make adjustment.



CARRIAGE SPEED ADJUSTMENT

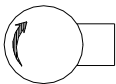
Turn the knob clockwise to increase the speed of carriage.



Turn the knob anticlockwise to decrease the speed of carriage.

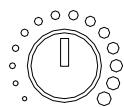
The speed adjust knob is available for both “AUTO” and “MANU” program.

If there is no particular requirement, please set the knob on standard position.



TURNTABLE SPEED ADJUSTMENT

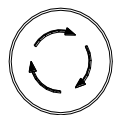
Turn the knob clockwise to increase the speed of turntable.



Turn the knob anticlockwise to decrease the speed of turntable.

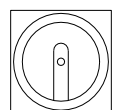
The speed adjust knob is available for both “AUTO” and “MANU” program.

If there is no particular requirement, please set the knob on standard position. The turntable speed is 12 RPM.



EMG. STOP

Pressing this button to make emergency stop.



MAIN POWER

This is the main power cut switch.

TIMER HELP SCREEN

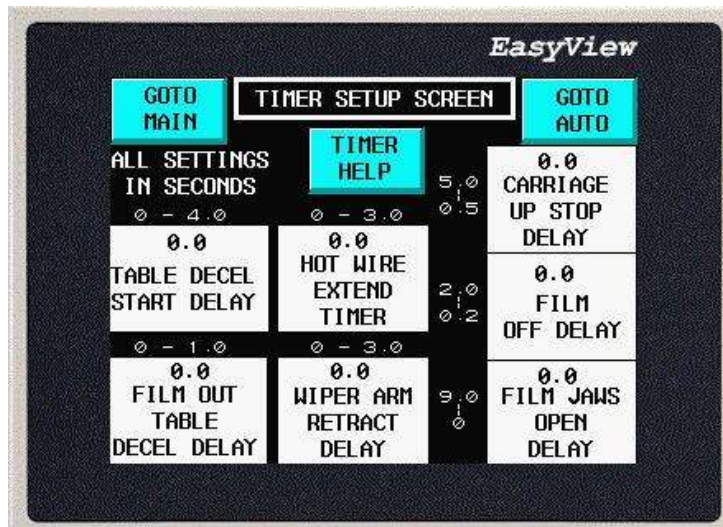


TABLE DECEL START DELAY

Sets the point of arm rotation where the arm will start to decelerate.

HOT BAR ENGAGE TIME

Sets the time duration for the hot bar when cutting the film.

WIPER ARM RETRACT DELAY

Sets the time delay after the package clears the center sensor where the wiper will retract.

CARRIAGE UP STOP DELAY

Time delay to stop carriage after reaching top of product height.

FILM OFF DELAY

When set the time delay for film stop when dispensing film from carriage.

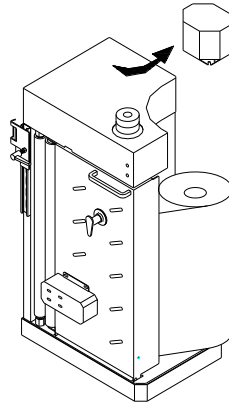
FILM JAWS OPEN DELAY

Delay for film release after wrap.

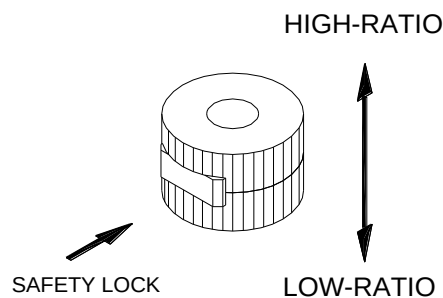
3.5 CARRIAGE UNIT

PRE-STRETCH RATIO CHANGE

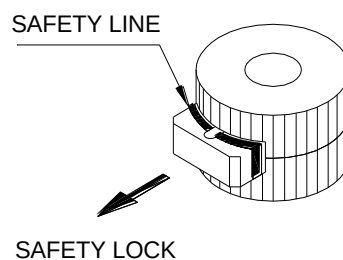
- 1) Switch the power off and apart the handle cover



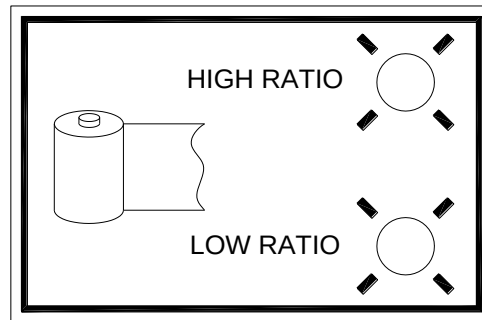
- 2) Push the safety lock inner, and then use the handle to adjust the pre-stretch percentage. Take up the handle to get the high pre – stretch percentage or put down to get the low pre – stretch.



- 3) To make sure a safe and correct operation, please check the below items:
 - a. The mark line is back to its home position.

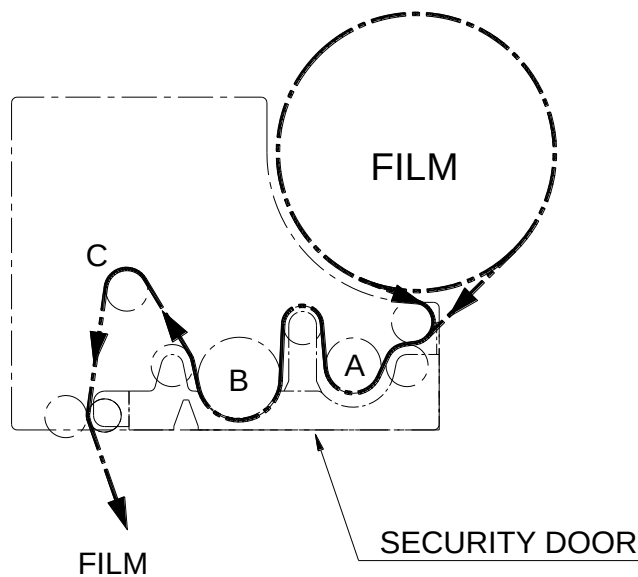


b. The lamp indicates the current pre-stretch ratio setting



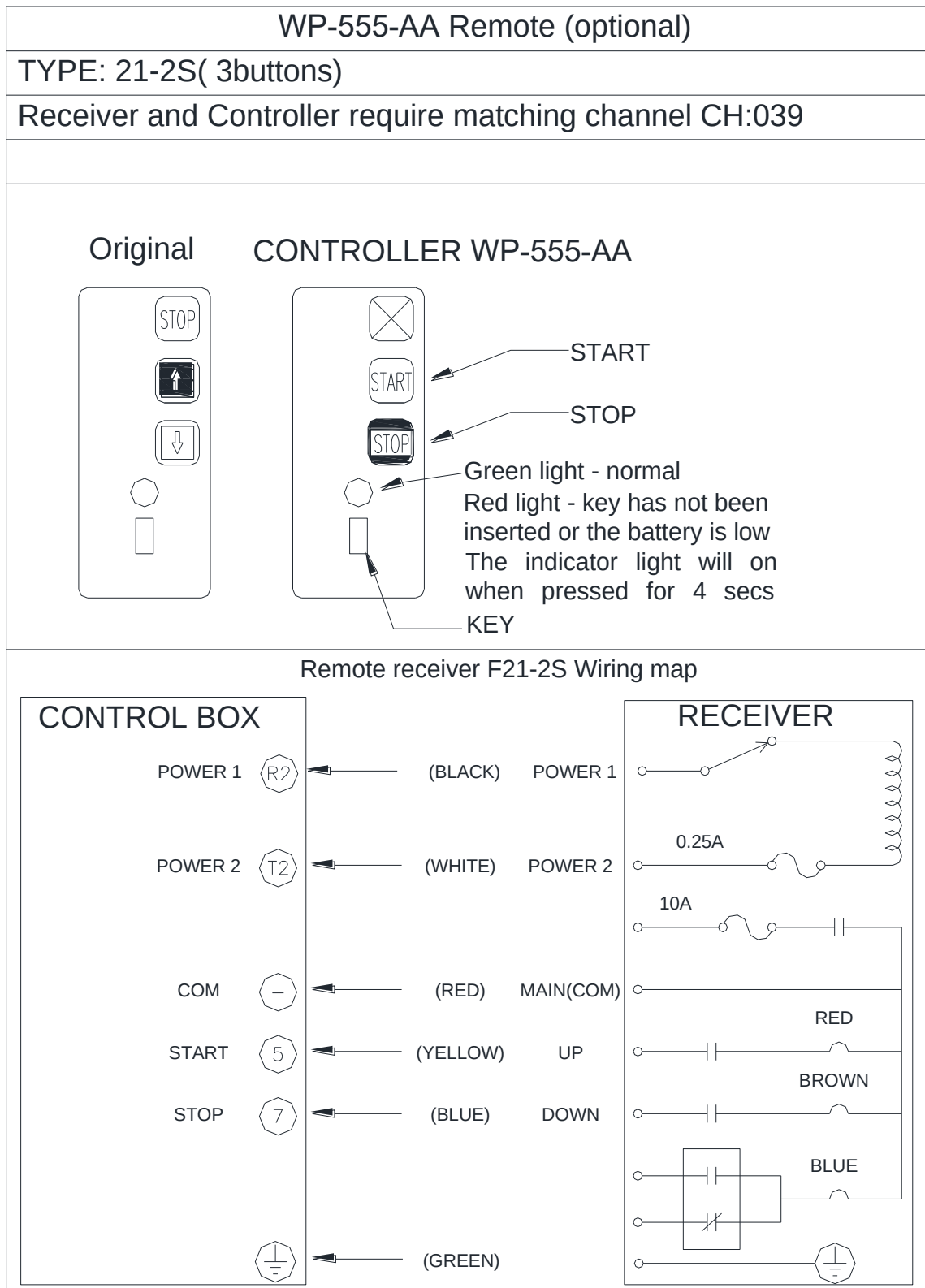
NOTE:) There are two sets of pre- stretch percentage available by option, one is 300% & 230%, the other is 250% & 200%.

INSTRUCTION FOR FILM THREADING



1. OPEN THE SECURITY DOOR.
2. MAKE SURE THE FILM WRAP AROUND C ROLLER
3. FIRMLY CLOSE THE SECURITY DOOR

INSTRUCTION FOR REMOTE CONTROL (OPTIONAL)



4. ELECTRICAL

4.1 ELECTRICAL CAPACITY

1) Power Consumption

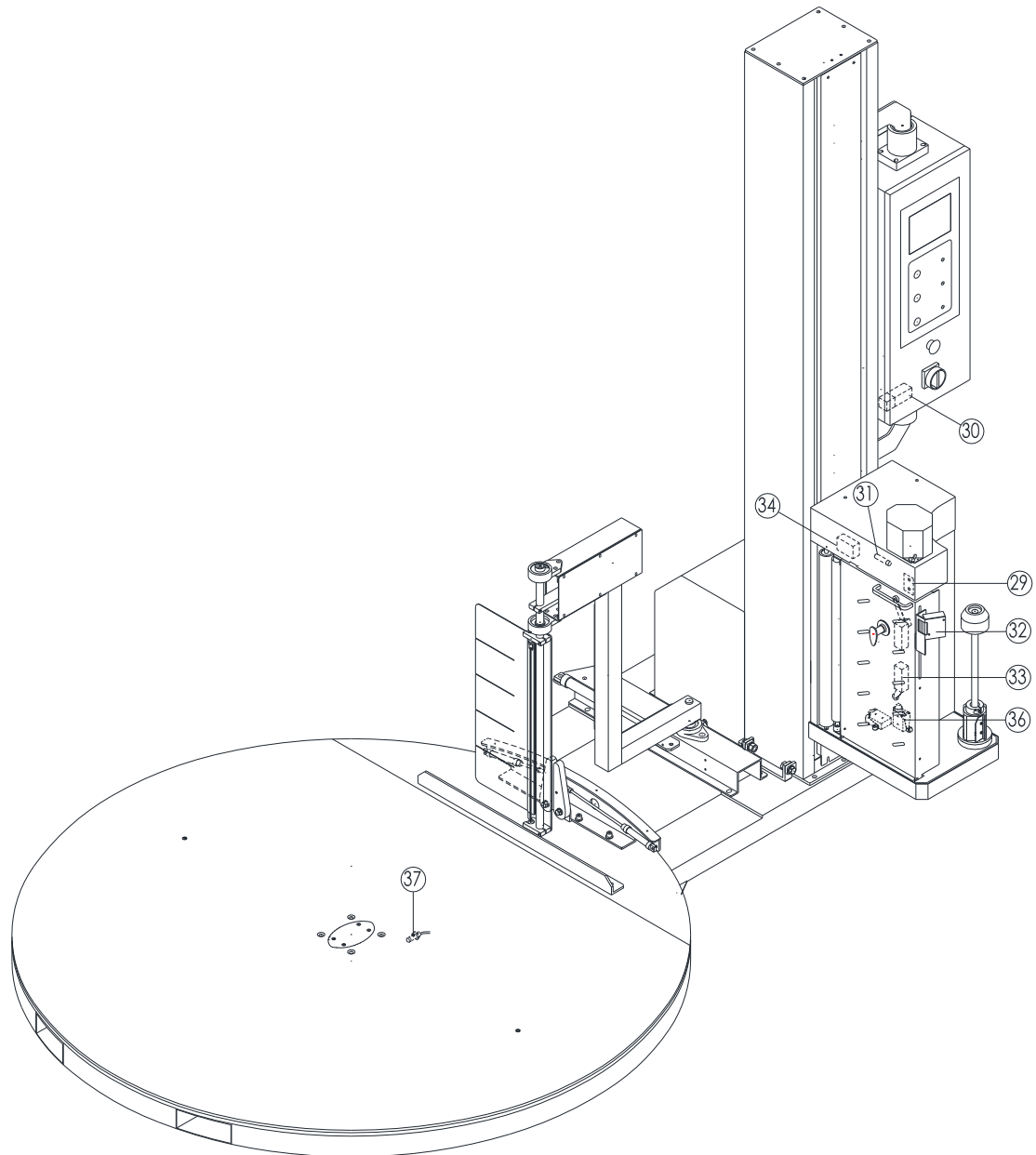
Pre-stretch motor	0.2 KW
Turntable motor	0.75 KW
Carriage Motor	0.4KW
Control & wiring box	DC 24V 50W
Machine Power Use	1.4 KW
Power Socket need	1.7 KW

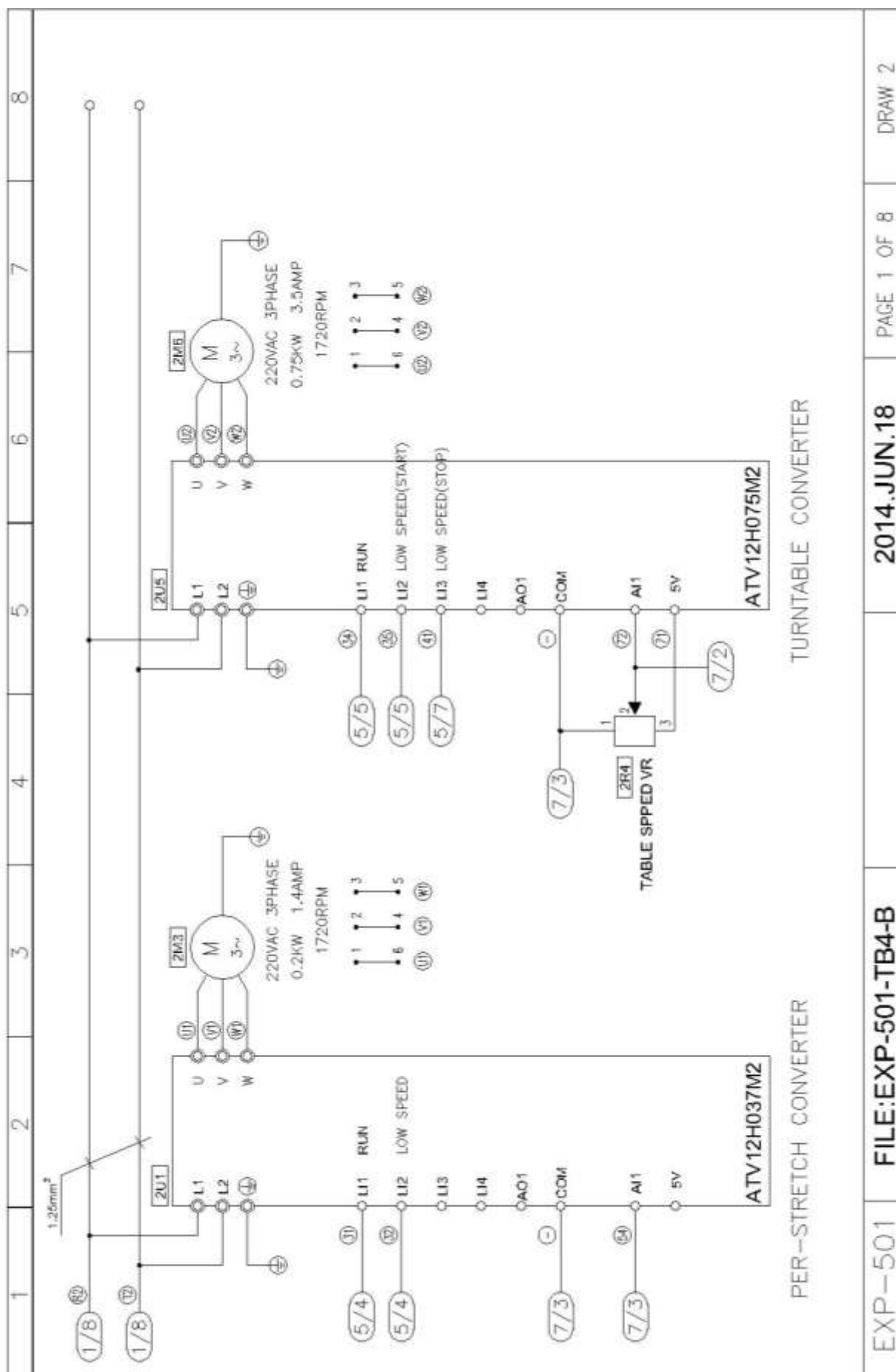
2) Power Cable ----- 1.25 mm²

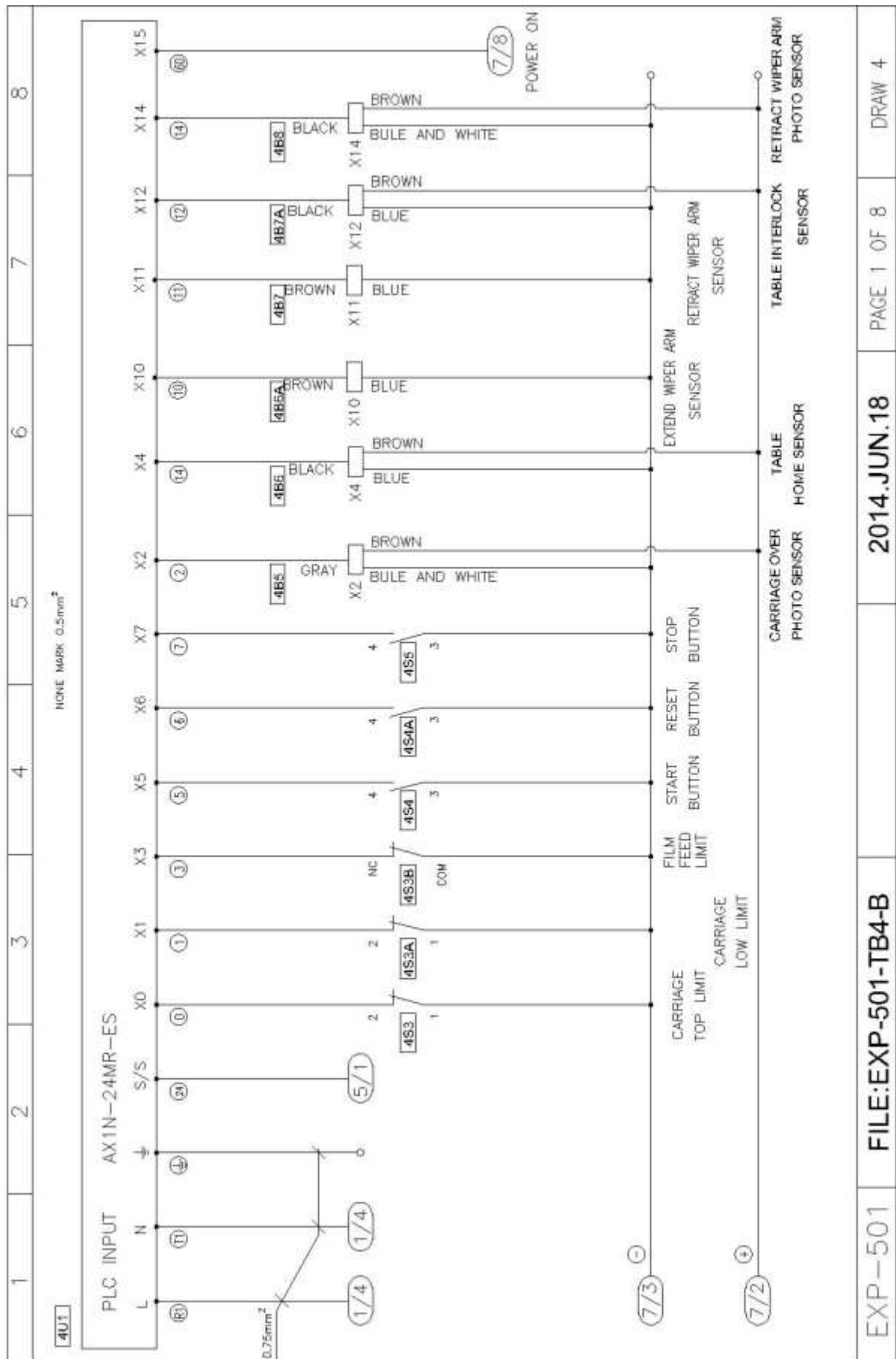
3) Machine input ----- 110V / 220V 1-PHASE

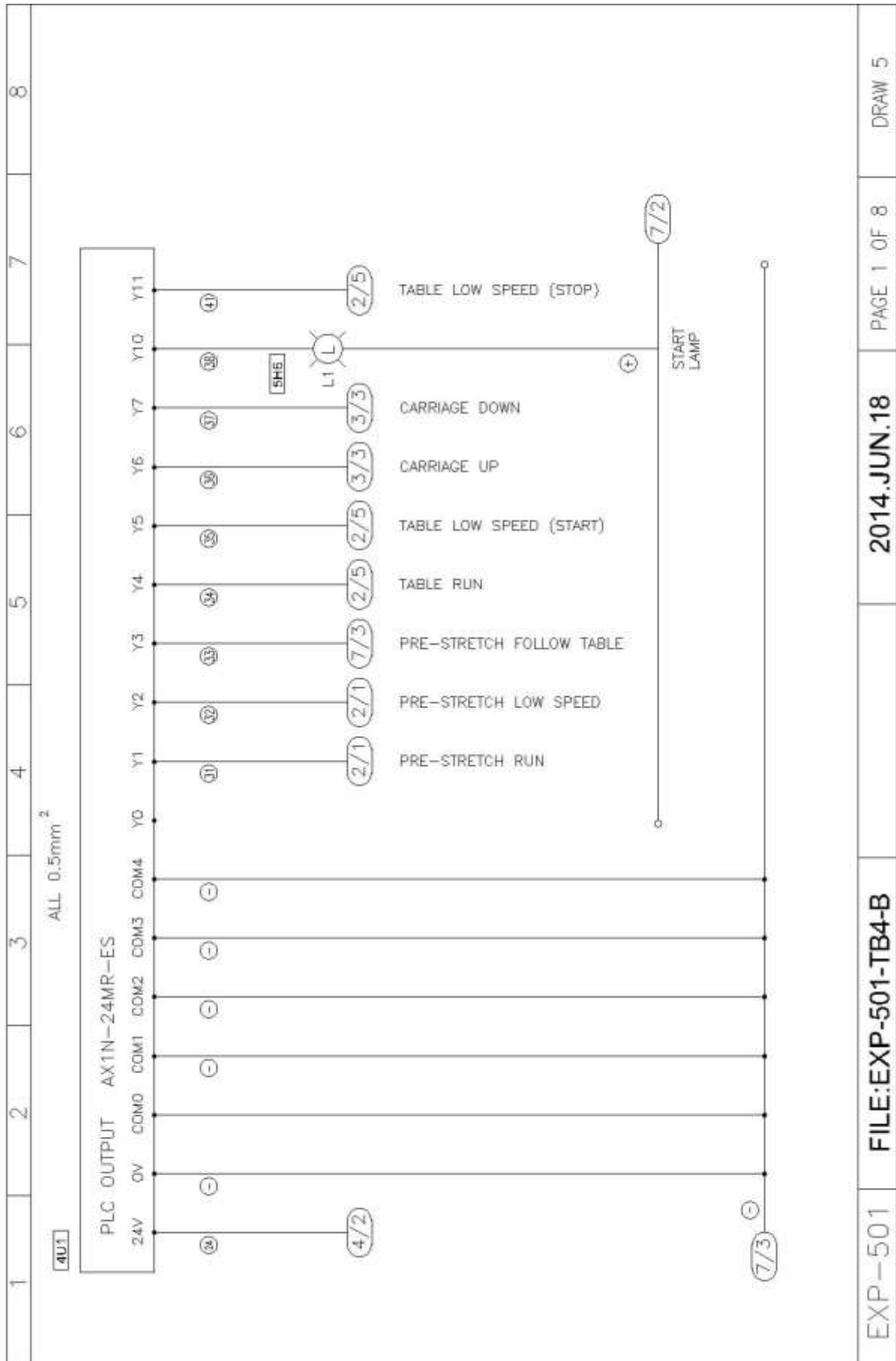
4.2 ELECTRICAL DIAGRAM

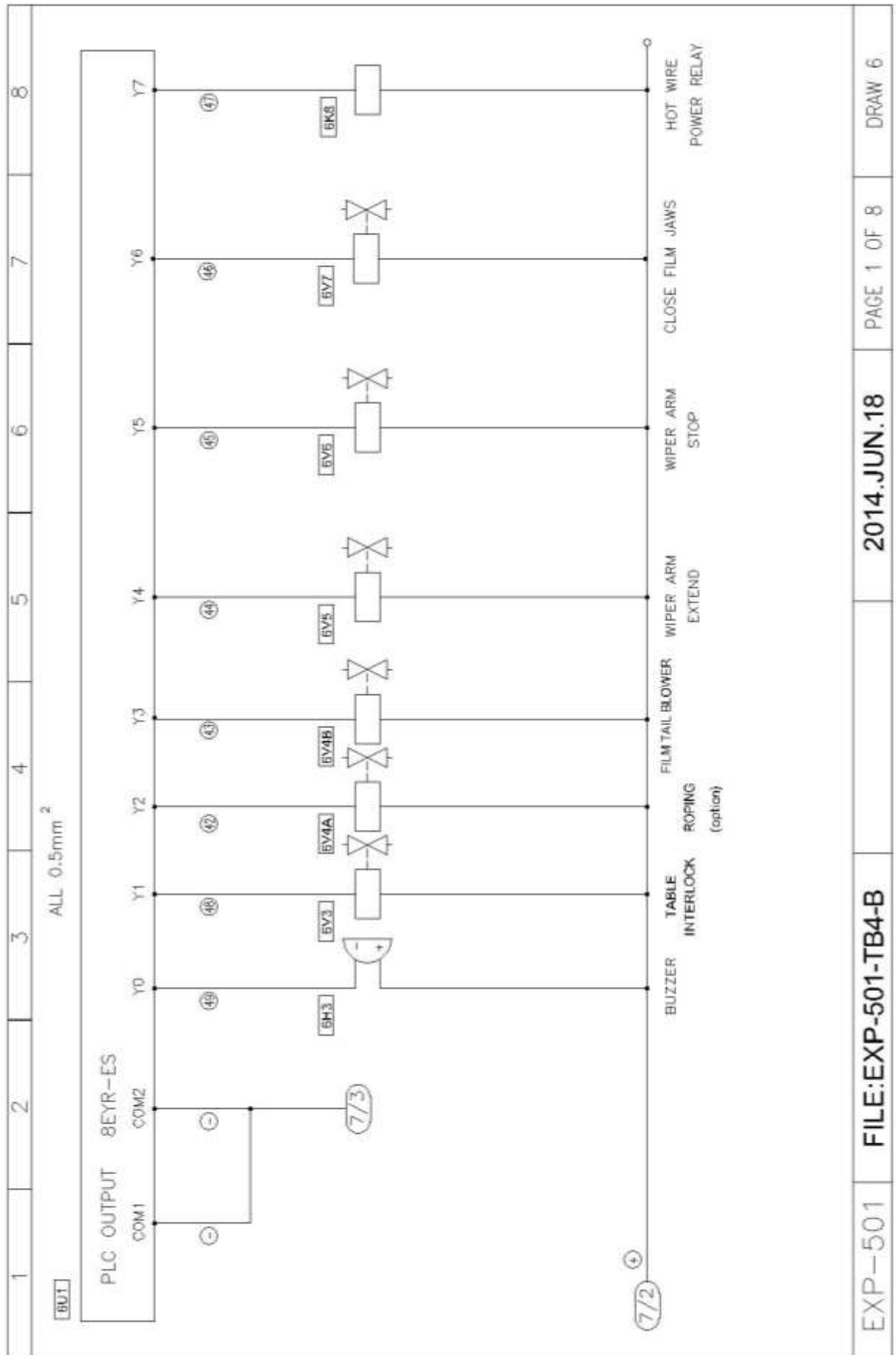
Sensor / limit switch location

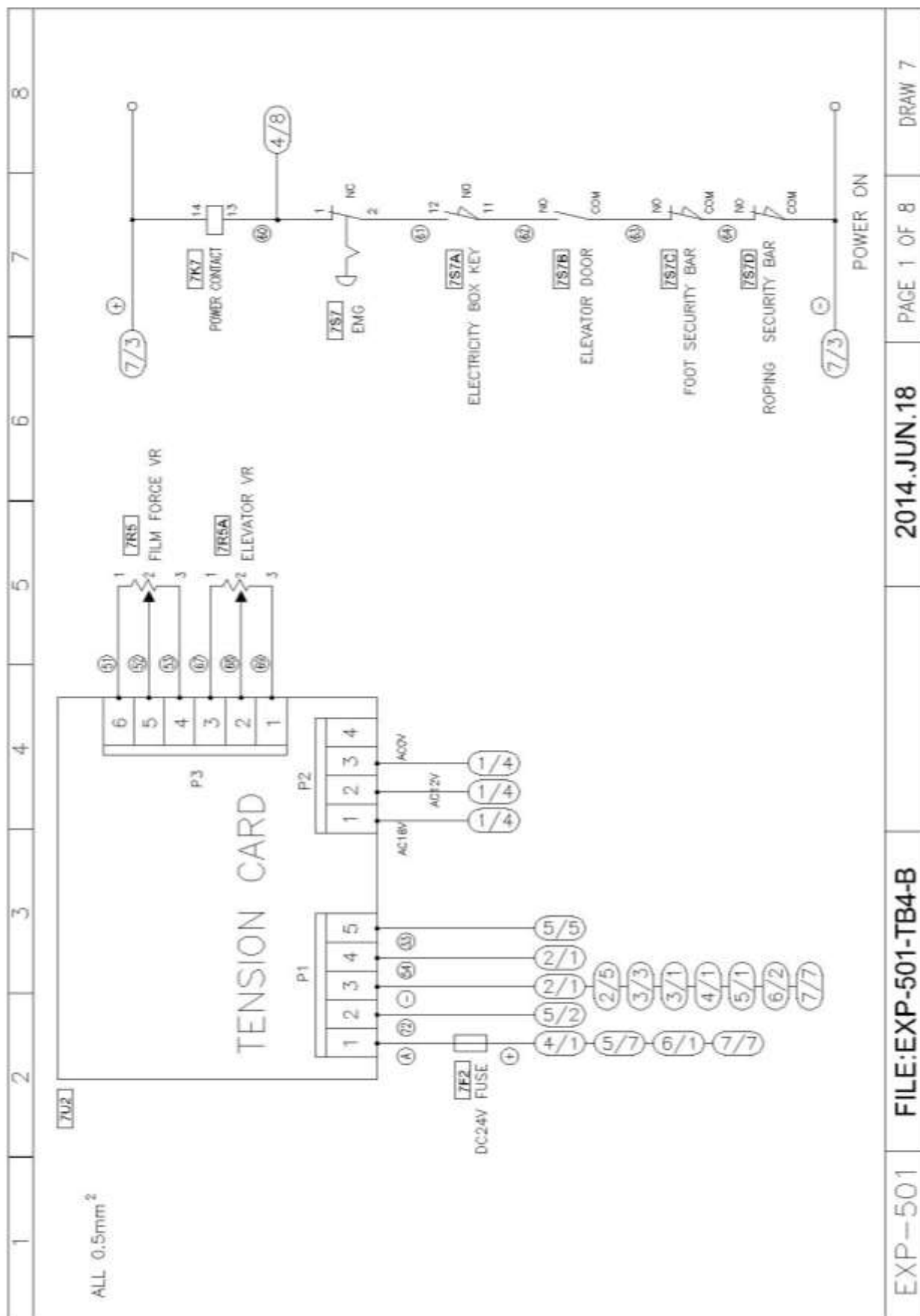


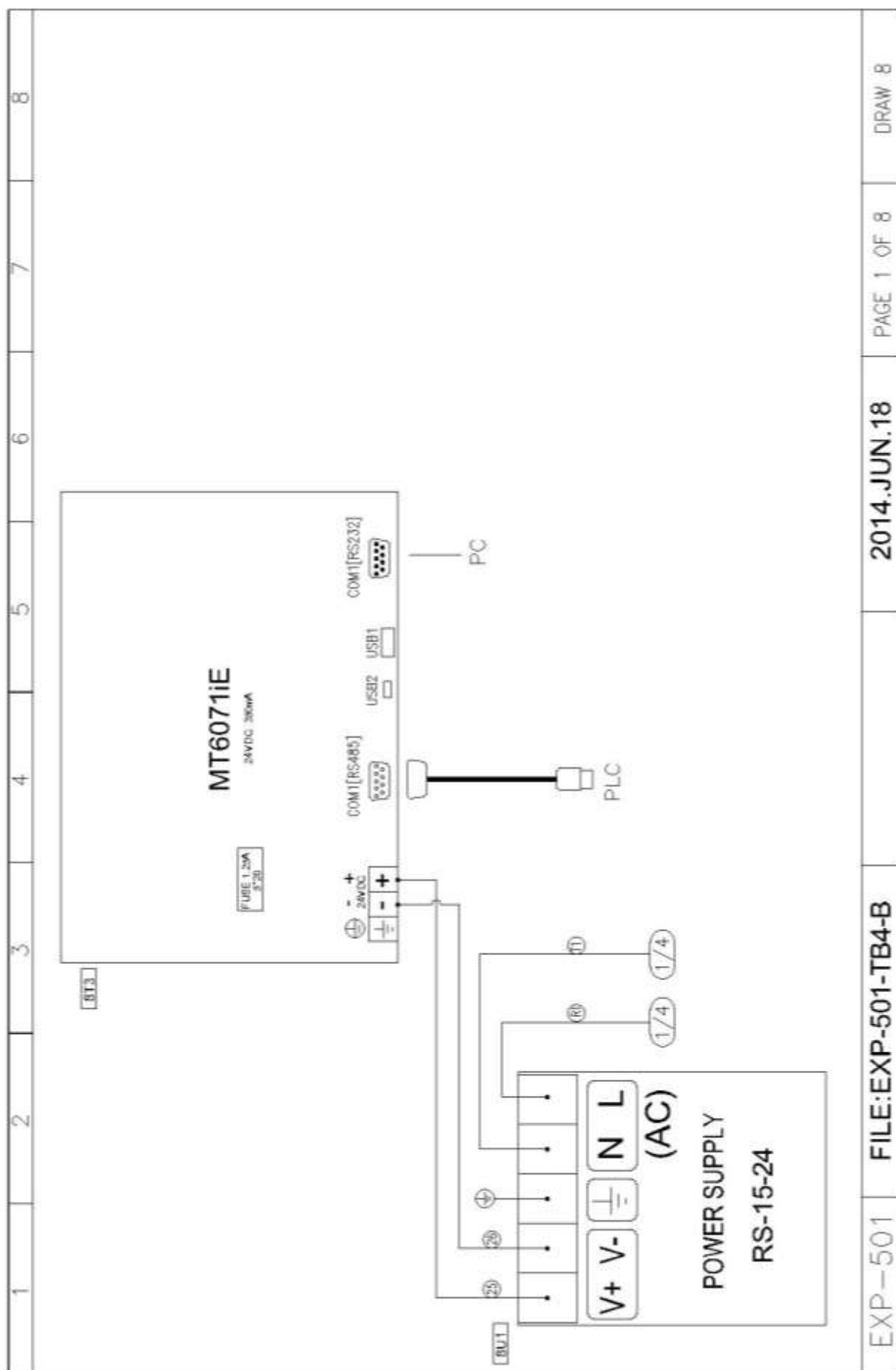


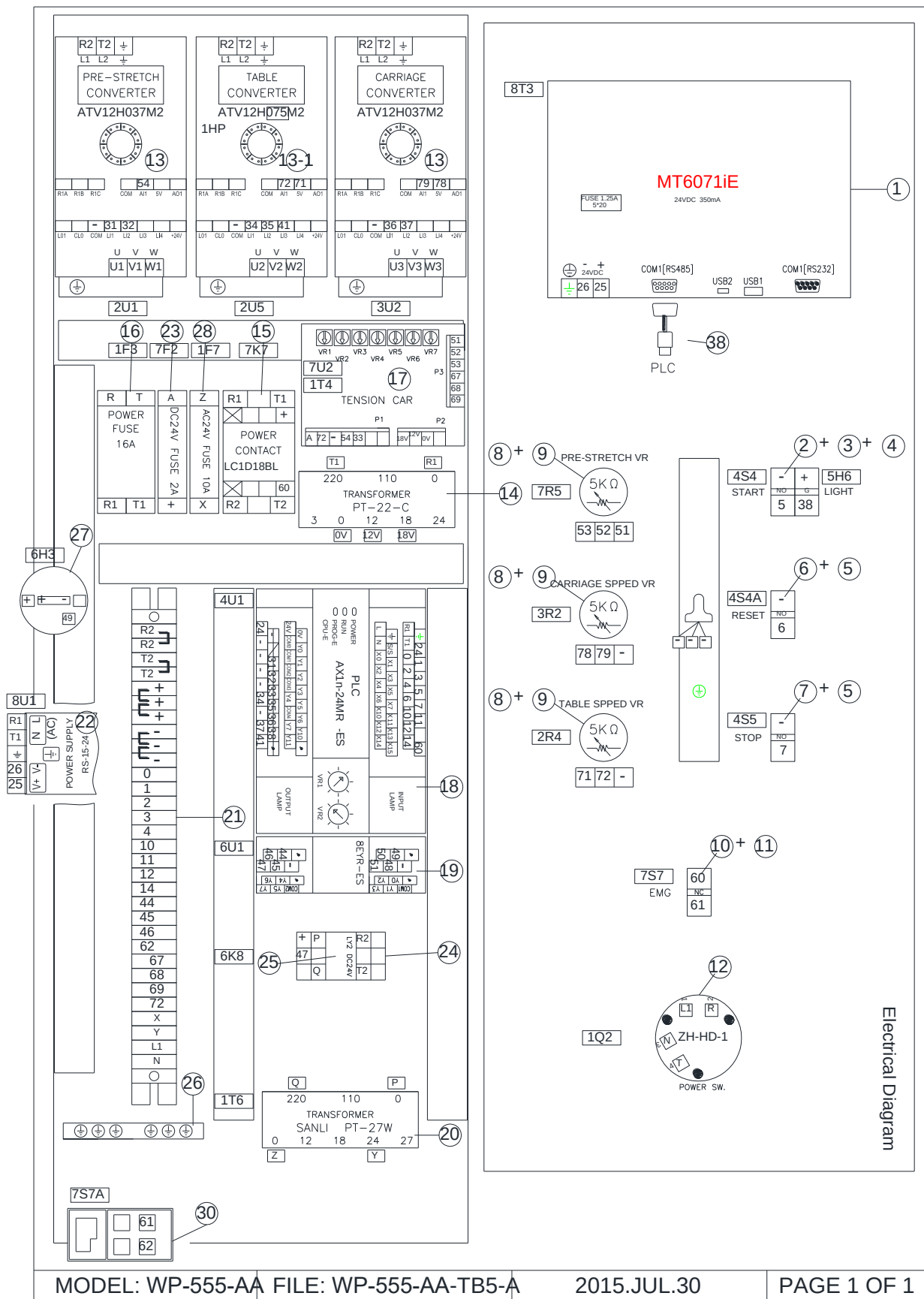


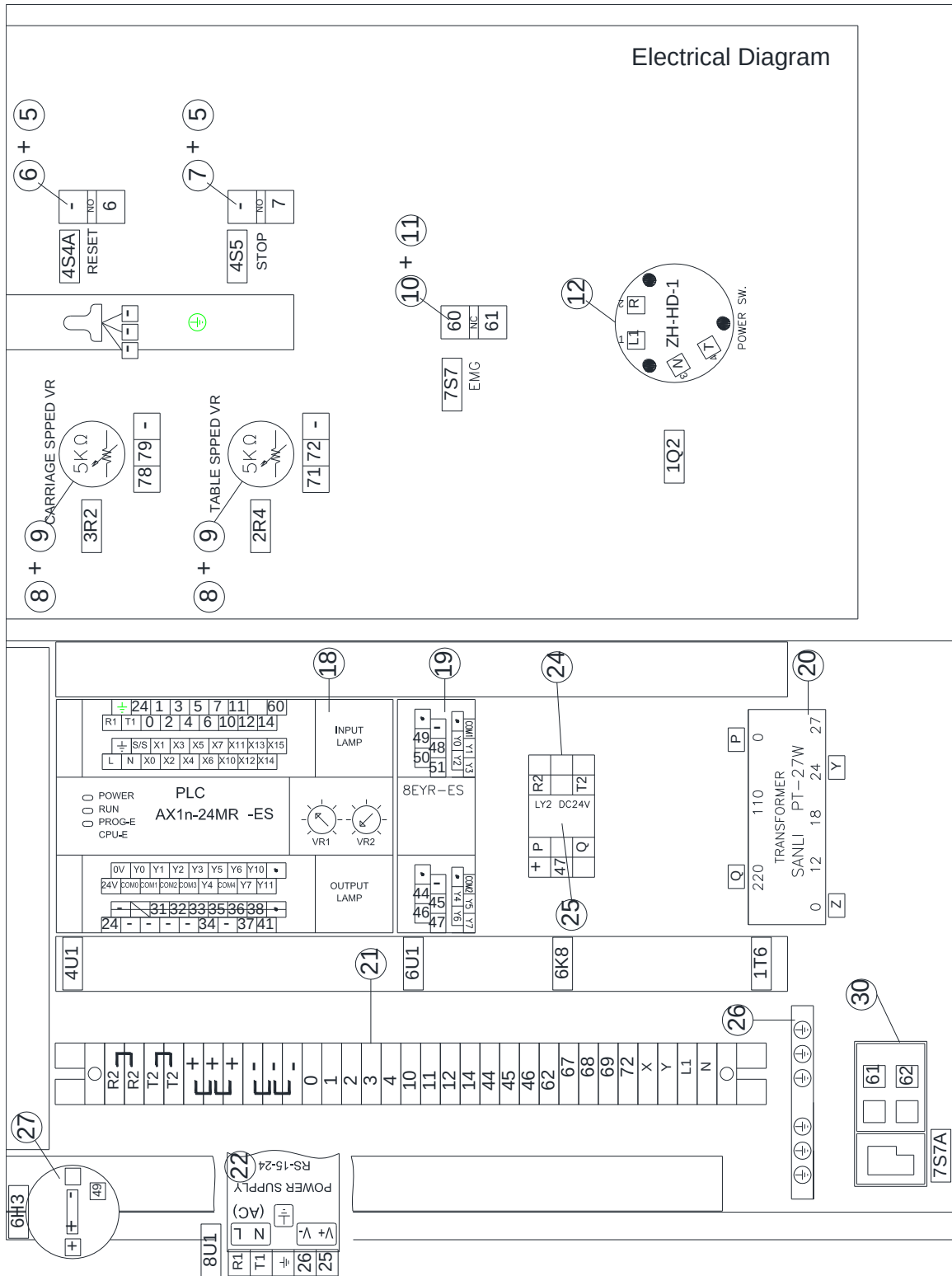












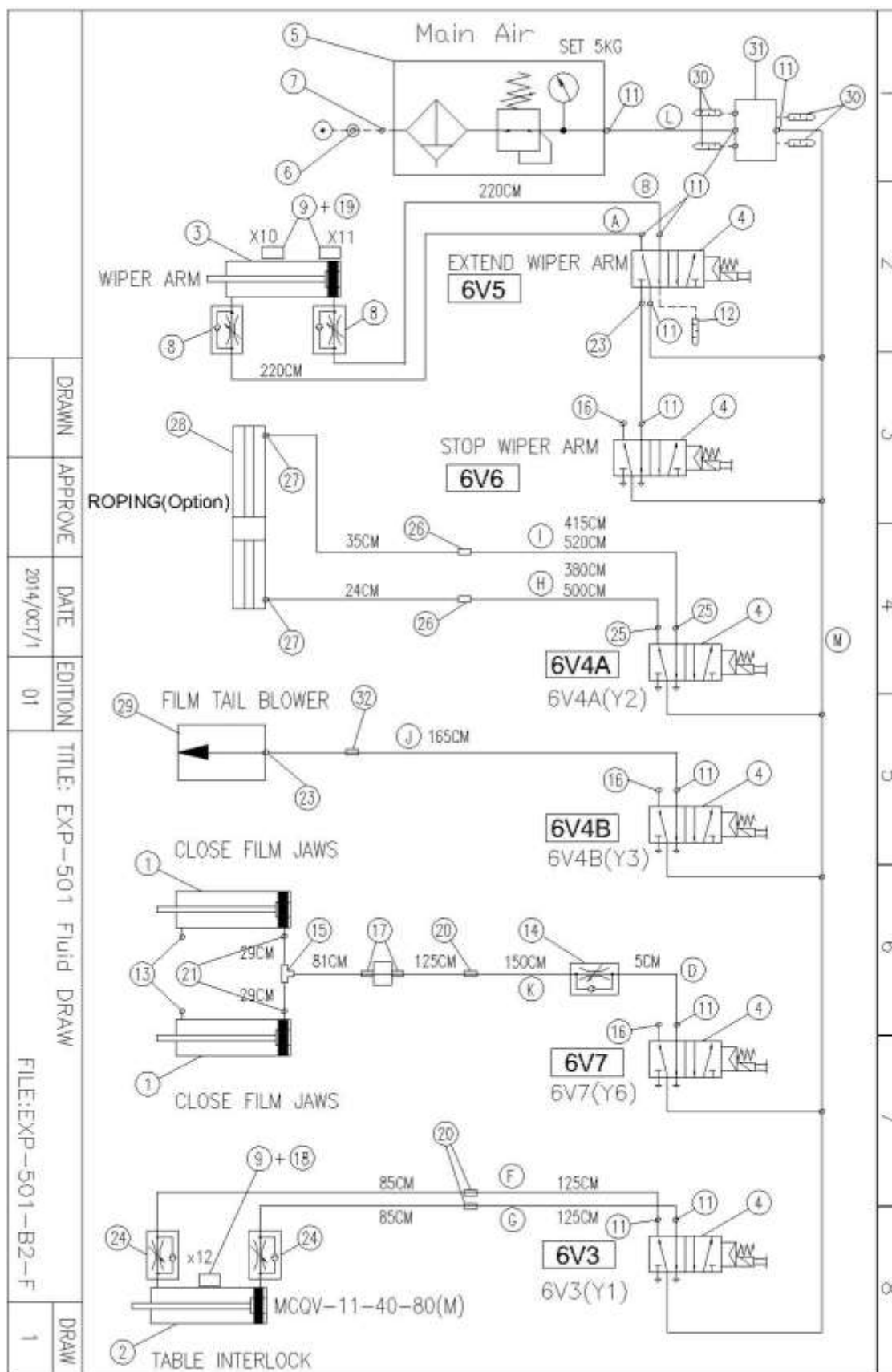
ELECTRIC PARTS LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
1	P0327-010000600	TOUCH SCREEN MT8071iH	1
	P0327-020000400	TOUCH SCREEN CABLE	1
2	P0313-010006400	BUTTON –GREEN XA2EW33B1	1
3			
4			
5			
6	P0313-010005600	BUTTON – WHITE XA2EA11	1
7	P0313-010006900	BUTTON – RED XA2EA41	1
8	P1113-000100A	KNOB RN-99F	3
9	P0318-010000500	VARIABLE RESISTOR 5K	3
10	P0313-010006300	EMERGENCY STOP BUTTON XA2ES542	1
11			1
12	P0311-010002800	MAIN SWITCH ZH-HD-1-48-BY	1
13	P0315-010000200	INVERTER ATV12H037F1 1/2HP,110V	3
13	P0315-010000300	INVERTER ATV12H037M2 1/2HP,220V	2
13-1	P0315-010000100	INVERTER ATV12H075M2 1HP,220V	1
14	P0321-000090A	TRANSFORMER PT-22-C	1
15	P0306-010000400	CONTACTOR LC1D18BL	1
16	P0305-010001200	NON-FUSE SWITCH IK60N2PC16A	1
17	P0309-010000700	CIRCUIT BOARD	1
18	P0308-010000500	PLC AX1N-24MR-ES	1
19	P0308-010004300	PLC AX2N-8EYR-ES	1
20	P0321-0000800	TRANSFORMER PT-27W	1
21	P0304-010001800	TERMINAL TBC-10N30P	1
22	P0307-010001200	POWER SUPPLY RS-15-24	1
23	P0305-010001500	NON-FUSE SWITCH IC60N1PC2A	1
24	P0306-020000200	RELAY LY2, DC24V	1
25	P0306-030000100	RELAY SEAT PTF-08A	1
26	P0304-010000100	TERMINAL TB6P	1
27	P0310-0000100	BUZZER	1
28	P0305-010001400	NON-FUSE SWITCH IC60N1PC10A	1
29	P0312-010000800	GREEN INDICATOR LIGHT 916L	2
	P0306-020000400	RELAY	1
	P0309-010001100	STRETCH PERCENTAGE BOARD	1

ELECTRIC PARTS LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
30	P0311-020000200	SAFETY SWITCH XCSPA791	1
31	P0302-010001100	PROX. SWITCH PM12-04N	1
32	P0302-020000200	PHOTOEYE SENSOR A3R-2MX	1
33	P0311-060001110	LIMIT SWITCH TZ-8108	1
	P0311-060000910	LIMIT SWITCH TZ-8108	1
34	P0311-06000060A	LIMIT SWITCH TZ-7110	1
36	P0311-06000100A	LIMIT SWITCH ML-7141	2
37	P0302-010001200	PROX. SWITCH PM12-04N-3M	1

4.3 PNEUMATIC DIAGRAM



PNEUMATIC PARTS LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
1	P0402-0001800	CYLINDER MCMA-15-16*75	2
2	P0402-0002400	ISO CYLINDER MCQV2-11-40-65M	1
3	P0402-0002900	CYLINDER MCMA-11-32*25A	1
4	P0404-010000200	SOLENOID VALVE MVSC-220-4E1-DC24V	6
5	P0405-0000110	AIR F.R.L. UNITS	1
6	P0401-0000800	SPEEDINESS CONNECTOR MPP-20	1
7	P0401-0001200	CONNECTOR PL8-02	1
8	P0401-0003500	SQUARE BEND CONNECTOR JSC6-01A	2
9	P0302-010001700	MAGNETIC SWITCH RCA (3M)	3
10			
11	P0401-0002400	CONNECTOR PL6-02	11
12	P0401-0002100	BRASS SLIENCER MSL-S-01	1
13	P0401-0006700	BRASS SLIENCER MSL-S-M5	2
14	P0401-0005800	SQUARE BEND ADJUSTMENT CONNECTOR	1
15	P0401-0003200	CONNECTOR PE-6	1
16	P0406-0000100	SLEEVE 1/4" (PT)	3
17	P0401-0009100	ROTATING CONNECTOR RL6-M6	2
18	P0302-040000100	SENSOR FIXED PLATE MCQV-B32/40	1
19	P0403-040000200	SENSOR FIXED PLATE MCMA-B32	2
20	P0401-0007700	CONNECTOR PU6	2
21	P0401-0007600	CONNECTOR PL6-M5	2
22			
23	P0401-0005300	CONNECTOR PC10-04	1
24	P0401-0008800	SQUARE BEND ADJUSTMENT CONNECTOR	2
25	P0401-0008500	CONNECTOR PL4-02	2
26	P0401-0012800	CONNECTOR PU4	2
27	P0401-0002600	CONNECTOR PL4-M5	2
28	P0402-0004000	CYLINDER MCRPLF-90V-16-600 +PL 24/1	1
29	P06-0047200	FILM TAIL BLOWER	1
30	P0401-0001600	BRASS SLIENCER 1/4", MSL-S-02	4
31	P0404-030001000	VALVES MANIFOLD 5B MVSC-220-5B	1
32	P0401-0012700	CONNECTOR PG10-6	1

5. TROUBLE SHOOTING

5.1 GENERAL ADJUSTMENT

1) Turntable belt adjustment

Please see the illustration 5-1, and then loosen the motor seat M10 screw 4 pcs.

Turn the (M10) on the seat until get enough tension. Turn and tight the motor seat screw 4 pcs again.

2) Carriage unit driving chain adjustment

Adjust the carriage to proper position and take off the cover tower

Adjust the M10 screw (Up and down) to proper tension

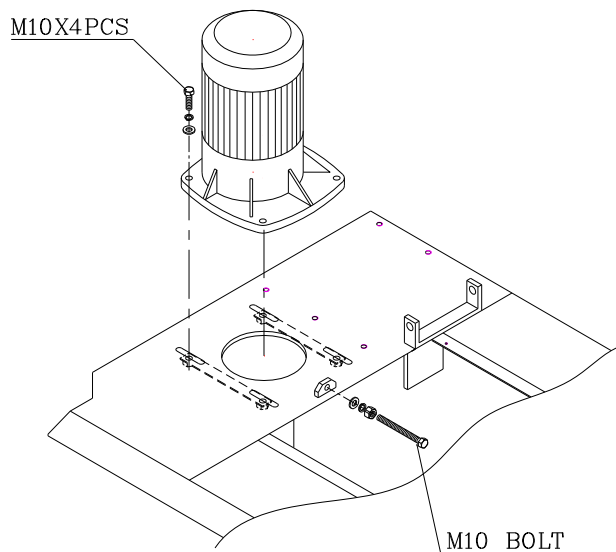


FIG.5-1

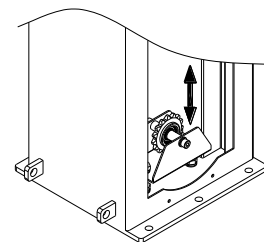


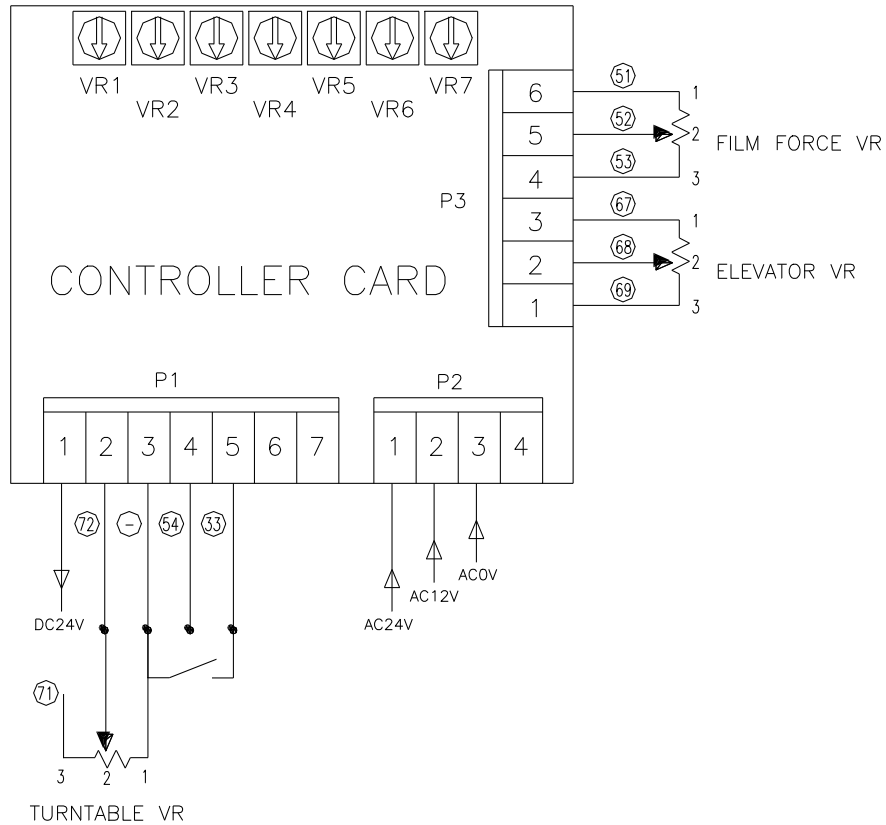
FIG.5-2

5.2 TROUBLE SHOOTING WITH WP-555-AA MACHINE

Machine trouble	Cause	Solution
Machine can not work	Power supply for motor tripped Screen lamp not ON. Foot security is broken. Motor is overload	Active the power switch Check micro- processor board. Release the security s/w. Check error message from inverter and refer to Inverter manual
Turntable can not turn	Microprocessor board broken Motor stops turning	Change microprocessor board Check error message from inverter and refer to Inverter manual
Turntable turn slowly and speed cannot be adjusted.	Turntable max. speed controller is broken (VR2). Wires are not connected properly	1.Check the controller connection 2.Check wire connections
Turntable can not Stop at home position.	Turntable proximity S/W is not working.	Check the proximity S/W detection. If it is no problem adjust the detection plate.
Carriage unit cannot move.	Microprocessor board broken Motor stops turning.	Change microprocessor board Check error message from inverter and refer to Inverter manual
As doing AUTO RUN the carriage unit goes up and over the package height	Photo sensor gets false reading from material other than packaging item. Photo sensor gets interference from other beam source.	Move away other objects Avoid the beam source.
As doing AUTO RUN but carriage does not goes up.	Photo sensor broken Photo sensor cannot detect black color object.	Change photo sensor. Avoid a black color package or use manual operation.

Machine trouble	Cause	Solution
Pre-stretch motor can not work	Voltage overload, power supply is not stable Transformer card is broken IC card is broken	Switch off the machine for 10 seconds then switch on the machine Check the lamp L4, L5 and L6 of transformer card is on or not. Check the message from Inverter manual
Pre stretch percentage is not enough	Film is too thick	Operators should make decision to use different film
Film easy break	Contaminated or damaged surface on the pre-stretch roller Pre stretch percentage is not ideal The quality of film is defective	Wipe the rollers gently Adjust the pre stretch ratio Change the film

Controller Card Explanation and Operation



DIAL	Function
VR1, VR2, VR3	N/A
VR4	Pre-stretch motor max speed
VR5	Manual feeding film speed (set speed)
VR6	Film tension tight adjustment (Clock wise)
VR7	Film tension loose adjustment(Clock wise)

LED	Warning sign
L1, L3 (yellow light)	Warning sign for VR6, VR7 Light will be brighter (reference only)
L2	Pre-stretch motor (red light) cycle faster light will be brighter
L4	N/A
L5	(Green light): Input AC 12V
L6	Green light): Input AC 12V

P1

1. Output DC 24V
2. Turntable Speed Testing
3. Output DC 0V
4. Output 0-5V control inverter output (pre-stretch motor)
5. Pre-stretch tension according to T/T speed
6. N/A
7. N/A

P2

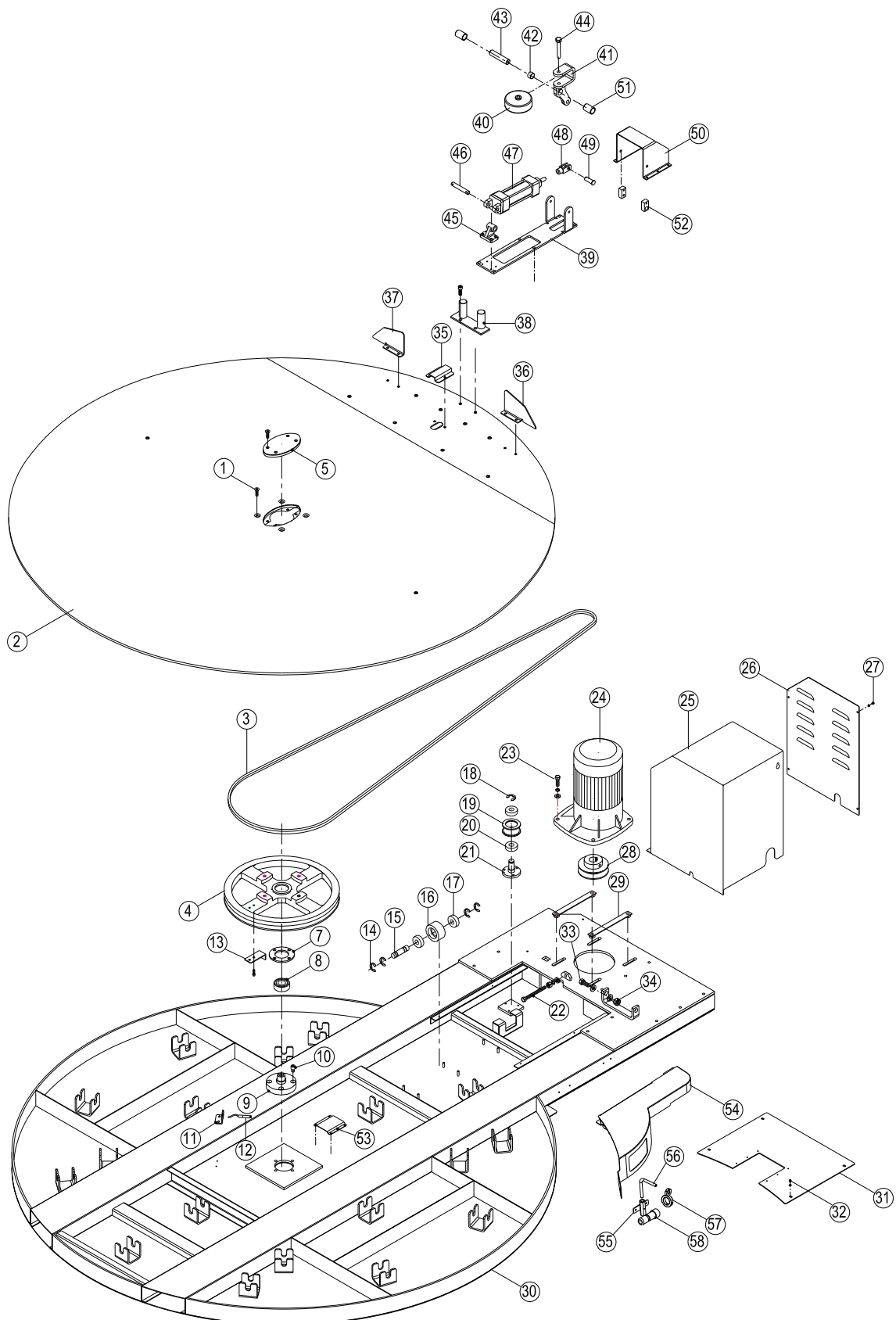
1. Input AC 18V
2. Input AC 12V
3. Input AC 0V
4. Empty

P3

1. Idler bar VR #3
2. Idler bar VR #2
3. Idler bar VR #1
4. Film tension knob # 3
5. Film tension knob #2
6. Film tension knob #1

6. PART LIST

6.1 SEAT



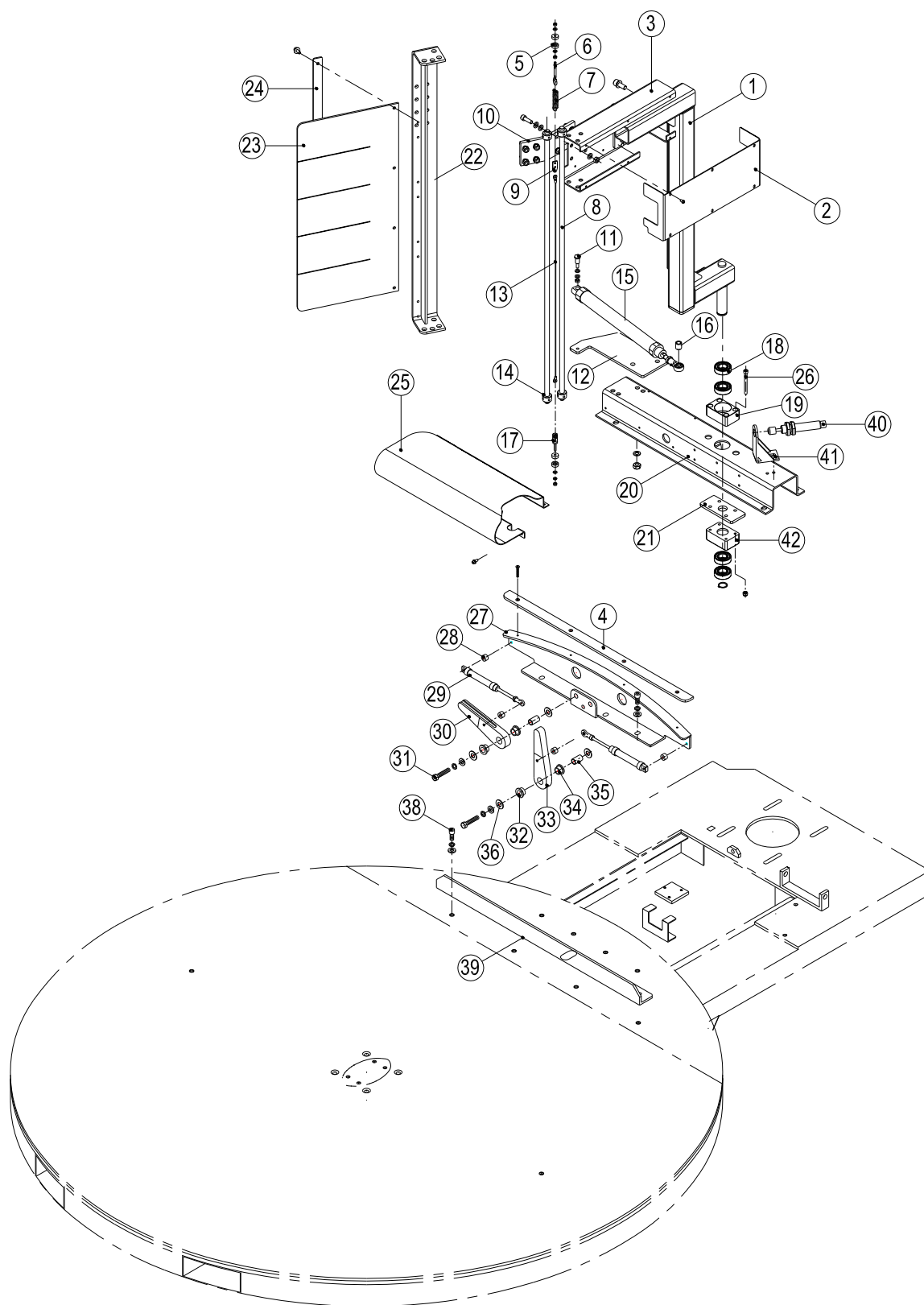
PART LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
1	P1101-0410020AN	SCREW M10 X 20L	4
2	P01-0001100	TURNTABLE 1.8M DIA.	1
3	P0902-0002700	BELT BX-145(LI)	1
4	P0703-000030A	PULLEY	1
5	P01-0001400	BELT PULLEY SEAT RING	1
7	P01-000130A	BELT PULLEY SHAFT	1
8	P1104-125205ZZ0	BEARING 5202ZZ	1
9	P02-0000400	BELT PULLEY BEARING SEAT	1
10	P1101-0510016AN	SCREW	4
11	P01-0000300	SENSOR SEAT	1
12	P0302-010001200	PROXIMITY SENSOR (PM12- 04N-3M)	1
13	P01-000040A	SENSOR PLATE	1
14	P1105-0117B	RING STW-17	72
15	P02-000700A	SUPPORTING PLASTIC WHEEL SHAFT	18
16	P06-0003410	SUPPORTING PLASTIC WHEEL	18
17	P1104-026203ZZ0	BEARING 6203ZZ	36
18	P1105-0117B	RING STW-17	1
19	P06-0028800	BELT PULLEY BEARING SEAT	1
20	P1104-026203ZZ0	BEARING 6203ZZ	2
21	P02-0000100	BELT PULLEY BEARING SHAFT	1
22	P1101-1010060CHZ	SCREW M10 X 60L	1
23	P1101-1010035AZ	SCREW M10 X 25L	4
24	P0502-0000600	GEAR REDUCER MOTOR	1
25	P01-0000600	MOTOR BOX	1
26	P01-0000700	MOTOR BOX COVER	1
27	P1101-0104006AZ	SCREW	4
28	P0703-0000100	MOTOR BELT PULLEY	1
29	P01-0000500	FIXED PLATE	2
30	P01-000100B	TURNTABLE SEAT	1
31	P01-000260A	COVERING PLATE	1
32	P1101-0104006AZ	SCREW M4 X 6L	4
33	P1101-1012035AZ	SCREW M12 X 35L	2

PART LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
34	P1102-0112BZ	SCREW M12	2
35	P01-0116500	COVER	1
36	P01-0115900	GUIDE PLATE	1
37	P01-0116000	GUIDE PLATE	1
38	P01-012100A	LIMIT FRAME BASE	1
39	P01-012120A	LOCKING BASE	1
40	P06-000180A	WHEEL	1
41	P01-012110B	TURNING BASE	1
42	P1104-0318120	BUSHING LFB-1812	1
43	P02-0071700	SHAFT	1
44	P1101-1010070AZ	SCREW M10x70L	1
45	P0403-010000300	CBB CYLINDER BASE	1
46	P0403-010000400	PIN (CB TYPE 40)	1
47	P0402-0002400	ISO CYLINDER MCQV2-11-40-65M	1
	P0403-010000100	CB CYLINDER BASE CQV CB-B40	1
48	P0403-020000400	Y CONNECTOR § 40	1
49	P0403-020000500	Y PIN	1
50	P01-012130B	BRAKE COVER	1
51	P02-0071800	RING	2
52	P02-0071900	FIXED LUMP	2
53	P01-0086600	TUBE COVER	1
54	P01-0430900	AIR BLOWER COVER	1
55	P01-0431000	AIR BLOWER BASE	1
56	P01-0431100	AIR BLOWER FIXING BAR	1
57	P01-0432300	AIR BLOWER FIXING RING	1
58	P06-0047200	AIR BLOWER TUBE	1

6.2 FILM CLAMP & WIPER DEVICE



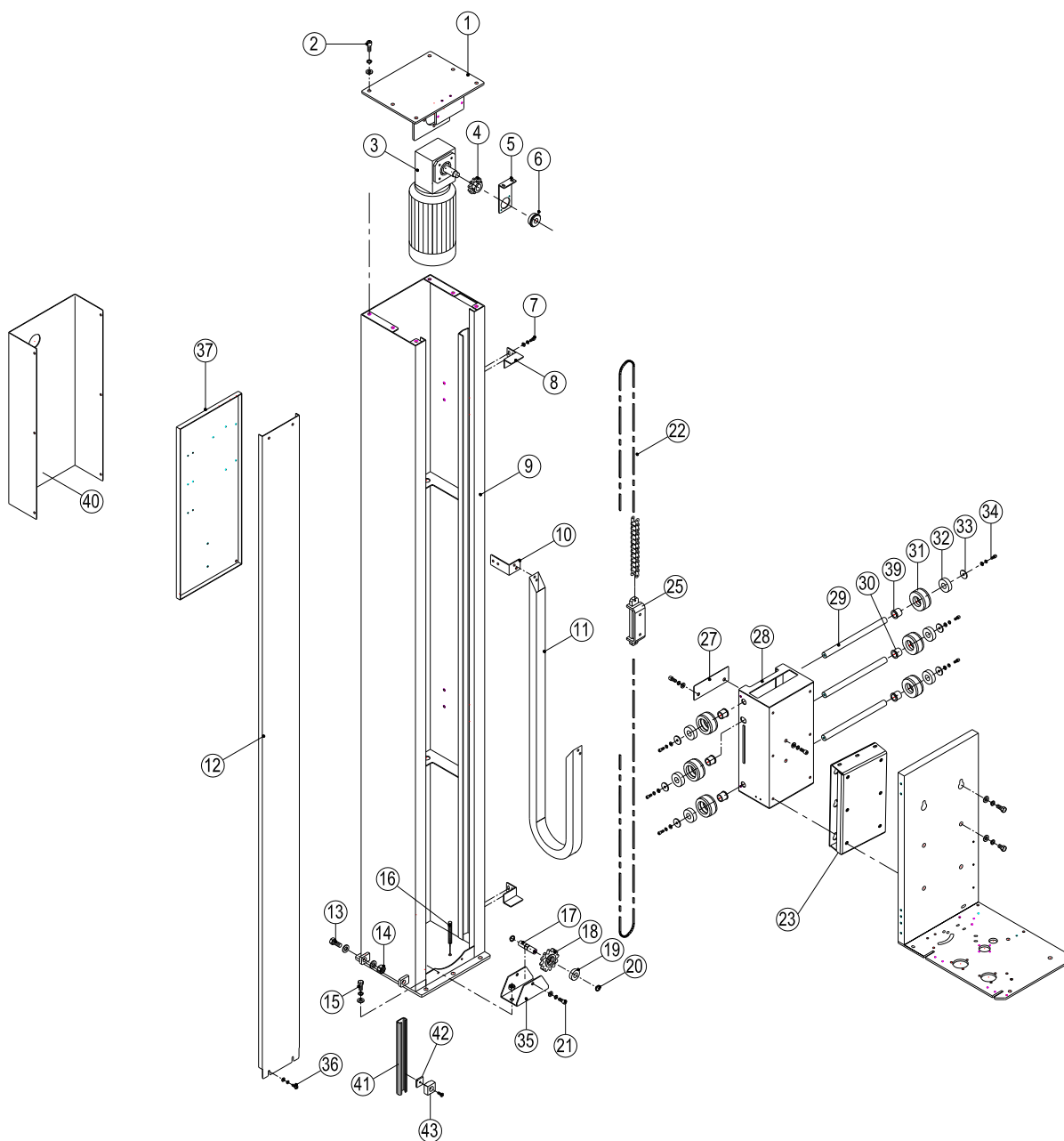
PART LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
1	P01-011620C	WIPER ARM	1
2	P01-0116300	UPPER BRACKET COVER, WIPER ARM	1
3	P01-0002100	UPPER BRACKET, WIPER ARM	1
4	P06-0000100	SLIDING PLATE	1
5	P06-0020300	RING	4
6	P1101-13050	SCREW	1
7	P1202-0004200	SPRING	1
8	P02-0069900	HOLDER SHAFT	2
9	P01-011580A	BOOM PLATE	1
10	P01-011640A	WIPER ARM PLATE	1
11	P02-0001100	SHAFT	1
12	P01-0116900	CYLINDER SEAT	1
13	P0314-030000320	HEATING WIRE	1
14	P02-0070000	FIXEDRING	4
15	P0402-0002900	CYLINDER MCMA-11-32*250A	1
	P1104-060000400	CYLINDER JOINT PHS10	1
16	P02-000100A	RING	1
17	P02-007010A	SCREW	1
18	P1104-026205ZZ0	BEARING 6205ZZ	4
19	P02-0294400	WIPER ARM FIXING BRACKET (UPPER)	1
20	P01-000150A	FIXED SEAT	1
21	P01-000180B	BEARING FIXED PLATE	1
22	P01-011660A	WIPER ARM	1
23	P06-0002200	BLACK NYLON	1
24	P01-0001900	FIXED PLATE, BLACK NYLON	1
25	P01-011700B	CYLINDER COVER	1
26			
27	P01-0001200	CLAMP FIXED SEAT	1
28	P02-0000900	RING	2
29	P0402-0001800	CYLINDER MCMA-15-16*75	2
	P1104-060000700	CYLINDER JOINT PHS6	2
30	P02-0091100	JAW HALF	1
	P1601-0000300	SILICA GEL TUBE	1

PART LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
31	P1101-1012050AZ	SCREW M12*50L	2
32	P02-0000800	ROTATING RING	2
33	P02-0091000	JAW HALF	1
34	P02-0000800	ROTATING RING	2
35	P02-0000700	FIXED SHAFT	2
36	P01-0121500	WASHER	4
37			
38	P1101-0910025AN	SCREW M10*25L	4
39	P01-0116100	POSITION BLOCK	1
40	P02-0281000	HYDRAULC STOPPER (C-2016)	1
41	P01-0420100	HYDRAULC STOPPER BRACKET	1
42	P02-029450A	WIPER ARM FIXING BRACKET (LOWER)	1

6.3 TOWER



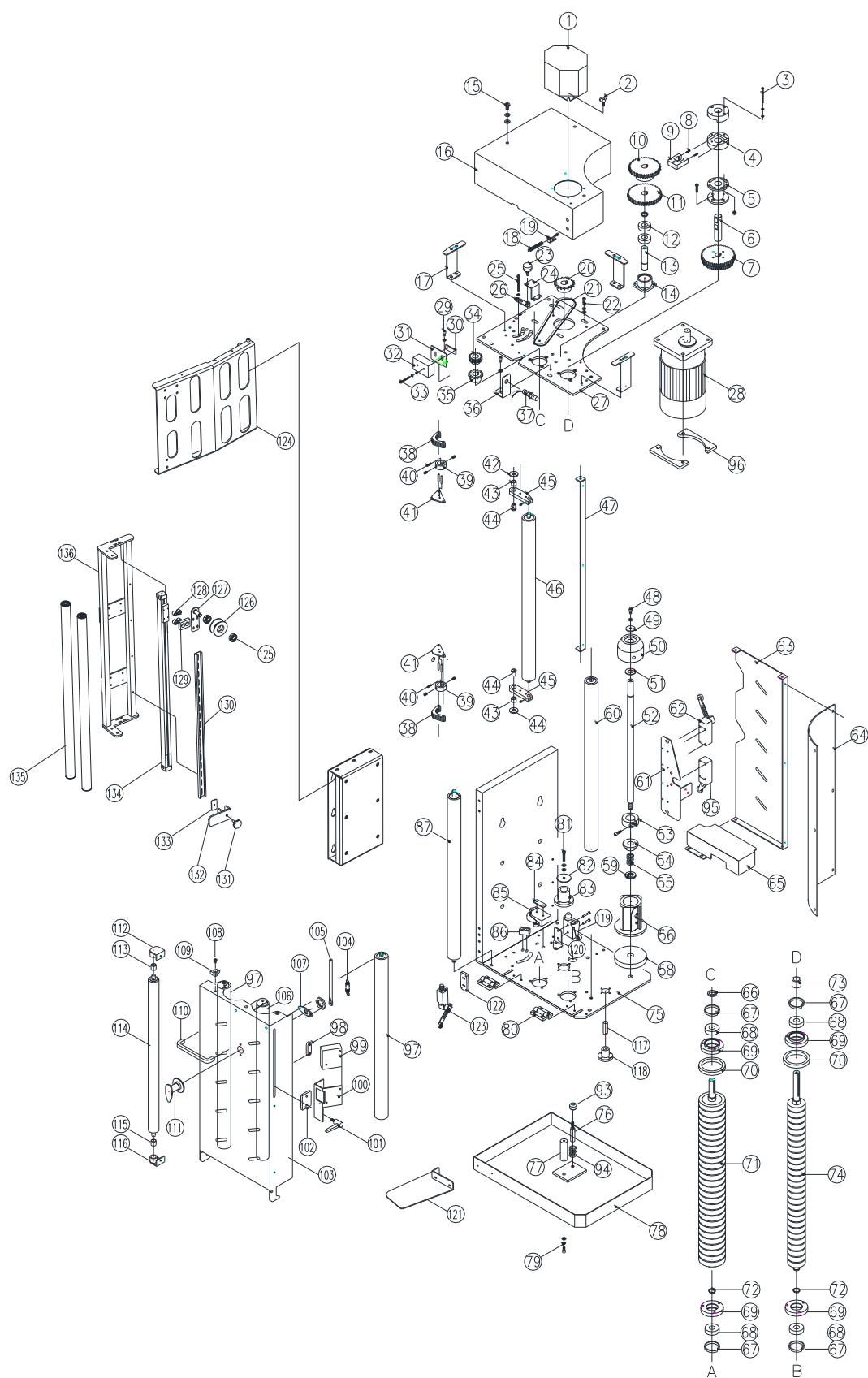
PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
1	P01-000320A	TOWER COVER (TOP)	1
2	P1101-0910025AN	SCREW M10 X 25L	4
3	P0501-0002600	CARRIAGE UNIT SPEED REDUCER	1
4	P0702-0000100	GEAR	1
5	P01-0003800	SPEED REDUCER BEARING SEAT	1
6	P1104-076202ZZ0	BEARING 6202-2NR	1
7	P1101-0605008AN	SCREW M5 X 8L	4
8	P01-0003400	SENSING PLATE	2
9	P01-000290C	TOWER→ 2 M	1
	P01-000291E	TOWER→ 2.5 M	1
	P01-000292B	TOWER →3 M	1
10	P01-0006900	SNAKE WIRING COVER SEAT	1
11	P0316-070000200	SNAKE WIRING COVER	1
12	P01-0003100	COVER PLATE→ 2 M	1
	P01-0003110	COVER PLATE→ 2.5 M	1
	P01-0003120	COVER PLATE→ 3 M	1
13	P1101-1012035AZ	SCREW M12 X 35L	2
14	P1102-0112BZ	NUT M12	2
15	P1101-0910025AN	SCREW M10 X 25L	6
16	P1101-0710080AB	SCREW M10 X 80L	2
17	P02-0001800	GEAR SHAFT	1
18	P0702-0000200	GEAR	1
19	P1104-026002ZZ0	BEARING 6002ZZ (CWB)	1
20	P1105-0115B	RING STW-15	2
21	P1101-0908020AN	SCREW M8 X 20L	1
22	P0901-0002400	CHAIN→ 2 M	1
	P0901-0002200	CHAIN→ 2.5 M	1
	P0901-0001800	CHAIN→ 3M	1
23	P01-0452400	ROPING BASE	
24			
25	P01-0003900	CHAIN ADJUST SEAT	1
26			

PART LIST FOR WP-555-AA

KEY NO.	PARTS NO	DESCRIPTION	Q'TY
27	P01-000350A	FIXED PIECE	1
28	P01-000330A	SPINDLE SUPPORT	1
29	P02-0001600	SHAFT	3
30	P02-0001700	RING	2
31	P06-0028900	CHAIN WHEEL	6
32	P1104-026203ZZ0	BEARING 6203ZZ (CWB)	6
33	P01-0003700	RING	9
34	P1101-0906016AN	SCREW M6X 16L	6
35	P01-0003600	UPPER CHAIN WHEEL SEAT	1
36	P1101-0806010AN	SCREW M6 X 10L	4
37	P01-0002410	AIR COMPESSION TERMINAL	1
38			
39	P06-0000800	RING	4
40	P01-0002800	AIR COMPESSION TERMINAL COVER	1

6.4 CARRIAGE



PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
1	P01-0006100	SUPPORTING COVER	1
2	P1101-1105012AZ	WING NUT M5 X 12L	2
3	P1101-0304050AZ	SCREW	4
4	P06-0005500	HANDLE	2
5	P06-0005300	GEAR PULL WHEEL	1
6	P02-0011400	POSITION SHAFT	1
7	P0701-0000400	SLIP GEAR 200% & 250%	1
	P0701-0000200	SLIP GEAR 230% & 300%	1
	P0701-0000410	SLIP GEAR 150% & 250%	1
8	P1201-0000600	SPRING	2
9	P06-0005400	SAFETY BOTTON	1
10	P0701-0003700	FIXED GEAR 41T→250%	1
	P0701-0003500	FIXED GEAR 42T→300%	1
	P0701-0003710	FIXED GEAR 36T→250%	1
11	P0701-0003600	FIXED GEAR 44T→200%	1
	P0701-0003400	FIXED GEAR 46T→230%	1
	P0701-0003610	FIXED GEAR 42T→150%	1
12	P1104-026003ZZ0	BEARING 6003ZZ (CWB)	2
13	P02-0004100	FIXED GEAR SHAFT	1
14	P02-0004000	BEARING SEAT	1
15	P1101-0806010AN	SCREW M6 X 10L	3
16	P01-0004210	TOP COVER	1
17	P01-0005800	TOP COVER SHAFT	3
18	P1202-0001700	SPRING	2
19	P01-0006600	SPRING SEAT	2
20	P0702-0001000	CHAIN GEAR 17T	1
21	P0901-0000600	CHAIN	1
22	P1101-1008030AHZ	SCREW M8 X 30L	4
23	P0318-010000500	VARIOUS RESISTOR 5K	1
24	P01-0004900	RESISTANCE FIXED SEAT	1
25	P1101-0305045AZ	SCREW M5 X 45L	1
26	P01-0004800	MOVING SHAFT SEAT	1

PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
27	P0501-0002800	CARRIAGE UNIT UPPER SEAT	1
28	P1101-0906016AN	MOTOR SV-A10	1
29	P01-0006700	SCREW M6 X 16L	2
30	P01-0004700	FIX PIECE	1
31	P0311-060000600	LIMIT FIXED SEAT	1
32	P1101-0304035AZ	LIMIT SWITCH TZ-7110	1
33	P0501-0002800	SCREW	2
34	P0701-0000300	GEAR →200% &250%	1
	P0701-0000100	GEAR →230% &300%	1
	P0701-0000310	GEAR →150% &250%	1
35	P0702-0000500	12T CHAIN WHEEL	1
36	P01-0026300	PROXIMITY SWITCH SEAT	1
37	P0302-010001100	PROXIMITY SENSOR PM12-04N	1
38	P01-0013900	BLOCK	10
39	P06-0003100	RING	2
40	P1201-0000200	SPRING	2
41	P01-0014000	PLATE	2
42	P02-0003200	RING	2
43	P1104-05HK10100	BEARING HK 1010	2
44	P02-0005000	SWINGING BAR SHAFT	2
45	P02-0003900	MOVING SHAFT SEAT	2
46	P08-0000700	ROLLER SEAT	1
47	P01-0006500	SUPPORTING SHAFT	1
48	P1101-0906016AN	SCREW M6 X 16L	1
49	P01-0003700	RING	1
50	P06-0000900	RING (UPPER)	1
51	P01-0005500	RING	1
52	P02-0002800	FILM SEAT ROLLER	1
53	P02-0015700	ADJUSTING RING	1
54	P06-0006100	RING (LOWER)	1
55	P1201-0000710	SPRING	1
56	P06-000600A	FILM FIX SEAT	1

PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
57	P02-0014800	BRAKE DISC	1
58	P02-0003000	FRICTION SEAT	1
59	P1104-19AS17301	BEARING NTB 1730	1
60	P08-0001000	ROLLER SET	1
61	P01-043140A	LIMIT SEAT	1
62	P0311-060001110	LIMIT SWITCH TZ-8108	1
63	P01-0004500	SIDE PLATE	1
64	P06-0001600	ACRYLIC DOOR	1
65	P01-0006300	TERMINAL COVER	1
66	P02-0002000	ISOLATING RING	2
67	P1105-0242B	C-RING R-42	2
68	P1104-026203ZZ0	BEARING	4
69	P02-0001900	BEARING SEAT	4
70	P06-0001200	PROTECTION RING	2
71	P08-000021A	PRE-STRETCH ROLLER	1
72	P1105-0117B	C-RING S-17	1
73	P02-0003800	ISOLATING RING	1
74	P08-0000310	PRE-STRETCH ROLLER	1
75	P01-000400E	CARRIAGE UNIT SEAT	1
76	P02-0003400	SENSOR SHAFT	1
77	P02-000280B	PEDAL SHAFT	1
78	P01-000430C	PEDAL	1
79	P1101-0908020AN	SCREW M8 X 20L	1
80	P06-0001100	HINGE	2
81	P1101-0906016AN	SCREW M6 X 16L	1
82	P01-0006400	SAFETY PLATE	1
83	P1104-092001A	LINEAR BUSHING	1
84	P01-0006700	FIX PIECE	2
85	P0311-060001000	LIMIT SWITCH ML-7141	1
86	P06-0002800	BLOCK	2
87	P08-0000400	ROLLER SET	1
93	P02-0003500	RING	1

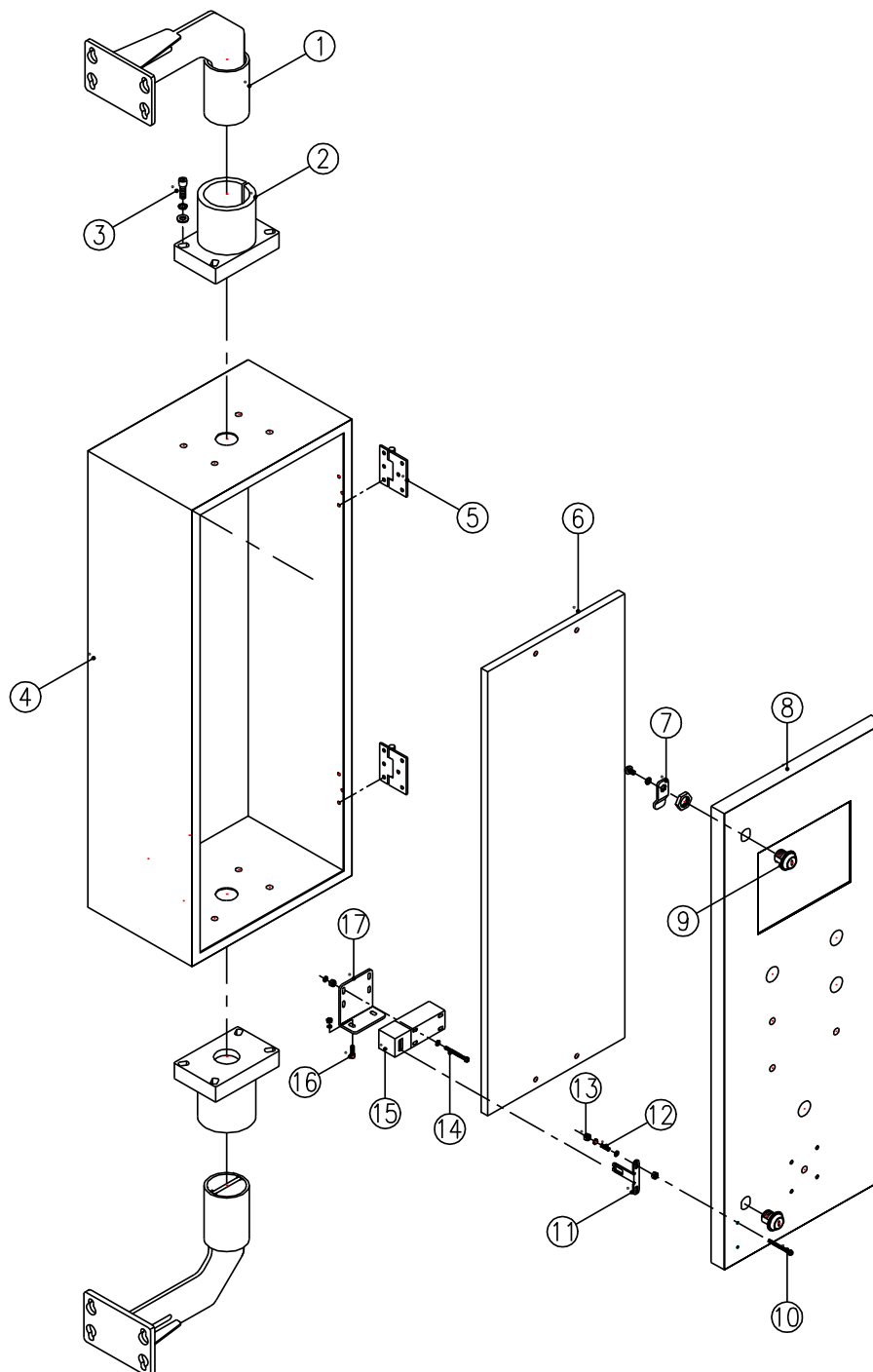
PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
94	P1201-0000710	SPRING	1
95	P0311-060000910	LIMIT SWITCH TZ-8108	1
96	P01-0007200	PLATE	2
97	P08-0000600	ROLLER ASSEMBLY	2
98	P01-0005100	SENSOR FIX PIECE	1
99	P0302-020000200	PHOTO SENSOR A3R-2MX	1
100	P01-0005000	PHOTO SENSOR SEAT	1
101	P1112-0001500	HANDLE BAR	1
102	P06-0001000	PHOTO SENSOR PLATE	1
103	P01-0004600	SAFETY DOOR	1
104	P1202-0000100	SPRING	1
105	P02-0003700	DOOR BOLT	1
106	P08-0000800	ROLLER ASSEMBLY	1
107	P01-0006800	PLATE	1
108	P1101-0406010AN	SCREW	1
109	P02-0005400	SECURITY KEY	1
110	P1112-0000700	DOOR KNOB	1
111	P1112-0001200	HANDLE BAR	1
112	P01-0005300	ONE WAY ROLLER SEAT (UPPER)	1
113	P1104-05HK10100	BEARING HK1010	1
114	P08-000090A	ONE WAY ROLLER ASSEMBLY	1
115	P1104-17HF10120	BEARING HK1012	1
116	P01-0005400	ONE WAY ROLLER SEAT (LOWER)	1
117	P02-0004300	PEDAL SHAFT	1
118	P1104-0912010	LINEAR BUSHING	1
119	P0311-060001000	LIMIT SWITCH ML-7141	1
120	P01-0007300	LIMIT SEAT	1
121	P01-043180B	SAFETY PEDEAL EXTENSION	1
122	P01-0431900	LIMIT SWITCH SEAT	1
123	P0311-060001110	LIMIT SWITCH TZ-8108	1
124	P01-0431200	ROPING CONNECTING FRAME	1
125	P1104-026001ZZ0	BEARING 6001ZZ	2
126	P02-000830A	ROLLER	1

PART LIST FOR WP-555-AA

KEY NO	PARTS NO	DESCRIPTION	Q'TY
127	P01-0431700	ROLLER FIXING BASE	1
128	P02-0279800	SPACER	4
129	P06-0051200	PU STOPPER	1
130	P0304-040000600	ROPING TRACK	1
131	P1113-0000400	KNOW M6*16L	1
132	P01-0453900	ROPING POSITION STOPPER	1
133	P01-0454000	STOPPER FIXING BASE	1
134	P0402-0004000	CYLINDER MCRPLF-90V-16-0600-24/1	1
135	P08-0007400	ROLLER	2
136	P01-043130B	ROPING – MAIN BODY FRAME	1

6.5 CONTROL BOX



PART LIST FOR WP-555-A

KEY NO	PARTS NO	DESCRIPTION	Q'TY
1	P01-000930B	SUPPORTING TUBES	2
2	P06-0002400	SUPPORTING SEATS	2
3	P1101-0508040AN	SCREW M8 X 40	8
4	P01-000960A	ELECTRICAL BOX	1
5	P01-0021600	HINGE	2
6	P01-0009500	WIRING PLATE	1
7	P1118-030000100	PLATE	2
8	P01-000940B	ELECTRICAL BOX DOOR	1
9	P1118-010000100	LOCK	2
10	P1101-0104025AZ	FLAT PHILIP SCREW M4 X 25L	1
11	P01-0016400	CIRCUIT BREAKER KEY	1
12	P1201-0001300	SPRING	2
13	P1102-0104BZ	LOCK NUT	2
14	P1101-0304035AZ	ROUND PHILIP SCREW M4 X 35L	4
15	P0311-020000200	CIRCUIT BREAKER KEY	1
16	P1101-0304012AZ	ROUND PHILIP SCREW M4 X 12L	2
17	P01-0021500	SECURITY SWITCH SEAT	1