

6

6 3.0

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1.1 Basic configuration

- 1 8-Inch color touch screen
- 2 Set control board
- 3 I/O board
- 4 Power supply (24V DC power supply).

1.2 Installation of the system

- 1 Wiring operation must be carried out by a professional electrician.
 - 2 Confirm that the power is disconnected before you can begin work.
 - 3 Monitor on a metal, which a flame is a danger and a safety from combustible.
 - 4 Must be earthed in safe grounding.
 - 5 Electrical power supply and reception occurs, the control system failure may occur, in order to make the whole system OK, please be sure to use the electrical safety circuit of the control system.
 - 6 Before installing, using, operation, maintenance, must be familiar with the content of the manual and must be familiar with the electrical machine, electrical knowledge and all the electrical safety precautions.
 - 7 In all the controller box, should have good ventilation, oil-proof, dust-proof condition. If the electrical controller box is closed the controller temperature is too high, affecting its normal work, be fixed with the exhaust fan, electrical box should be appropriately equipped with 50below, do not be in direct and open place.
 - 8 Controller should avoid contact with moisture, rain, fog and other communication features, avoid unnecessary vibration.
- Note: the danger caused by the improper handling, including personal injury or accident.



2-1

Man al+ "

1 " "Ke : origin e n and a o mo emen , p e ing hi b on ill a he app op ia e ac ion.

" "Ke : a o a , p e hi ke , o ill be a gh he la ep of he p og am a o op ; in op mode, hi ke o clea he ala m di pla ha ha been e ol ed.

2 " "Ke : in op mode, p e hi ke , hen p e he a ke , a ed e ning a he o igin.

" "Ke : p e hi ke o " I/O Re e he "check in he in e face I/O O p poin a e e e .

3 " "Ke : hi ke i ed o adj he peed of man al and a o global.

1 5 : The co e ponding f nc ion on he di pla panel.

+, -, +, -, +, -, +, -, +, - : In man al a , p e he co e ponding a i mo e .

Man al a e hen p eci e po i ioning, o can e he p eci e mo emen of he knob a i . The a ba , o can elec hich a i fo adj men .

X1: A g id a i 0.01mm O o o a e 0.01 Deg ee .

X5: One-a i an la ion 0.05mm O o o a e 0.05 Deg ee .

X10: One-a i an la ion 0.1mm O o o a e 0.1 Deg ee .

P e he eme genc op b on in an eme genc , ill c off all a e enabling all IO Main aining he c en a . em ale : eme genc op.

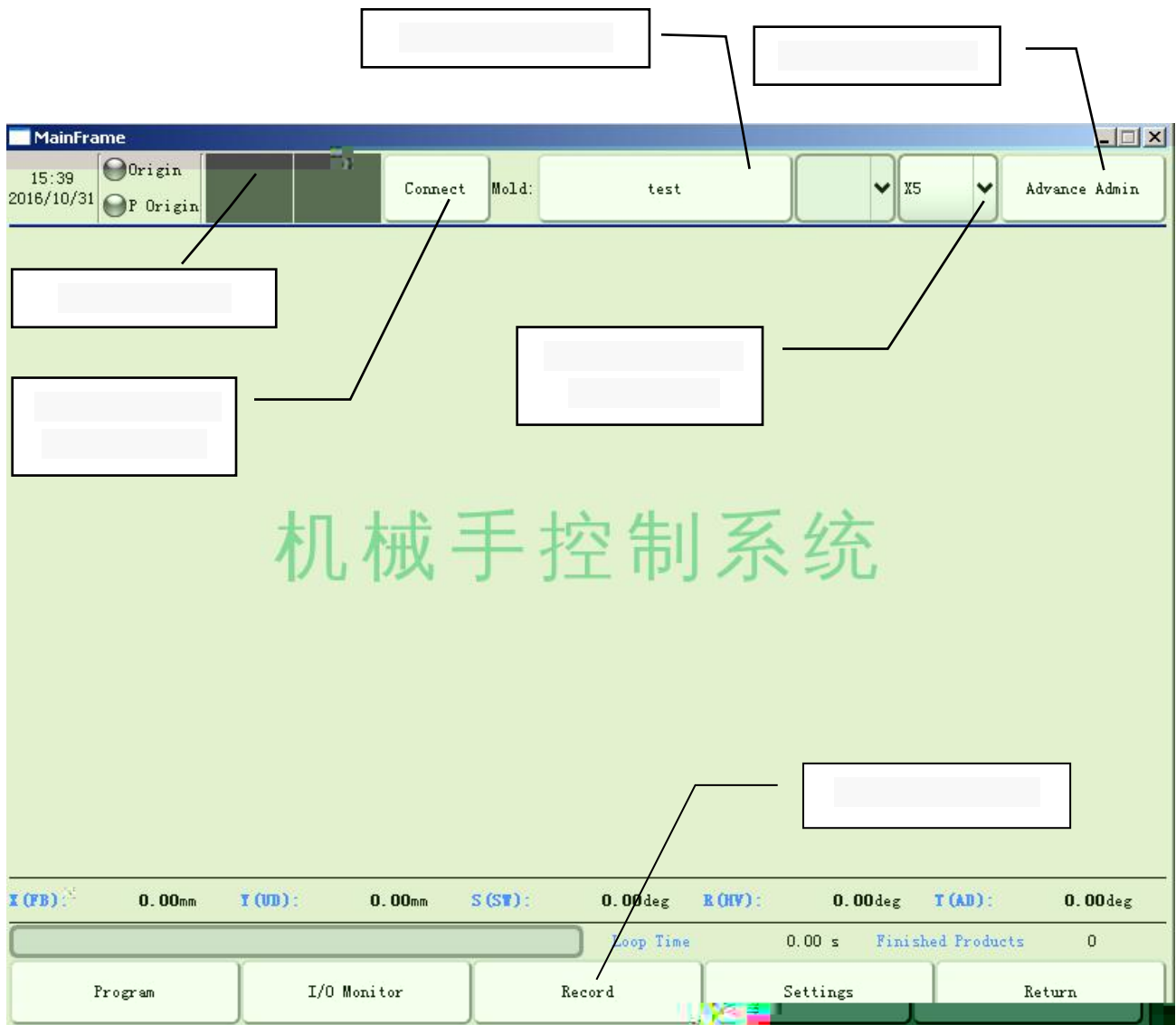
Knob c e o , p e he " op" b on, he ala m can be elimina ed.

"P nch o igin": dead ignal a di pla on he p nch.

"Safe g a ing": dead ignal a i di pla ed nde he p nch.

"Allo p nch": p nch allo he a e o di pla he o p of he em.

"P nch op": he obo in p nch ho he a of he afe a ea.



X (FB) a i : manip la o , he back a i .

Y (UD) a i : i e of he machine, d op a i .

S (SW) a i : manip la o a m a i .

R (HV) a i : manip la o The f on end The calib a ion a i .

T (AD) a i : flip a i of he obo a m.

Manip la o i h man al, a o op, h ee nning all f om he lef elec ion i ch fo man al a e , in hi a e, he manip la o can be man al ope a ed. S a elec ion i ch o he middle po i ion o op a e manip la o in he a e op all mo emen , machine can be ca ied o onl o igin e n ope a ion. Selec i ch o he igh po i ion and p e he " a " b on, he obo in o a o ope a ion.

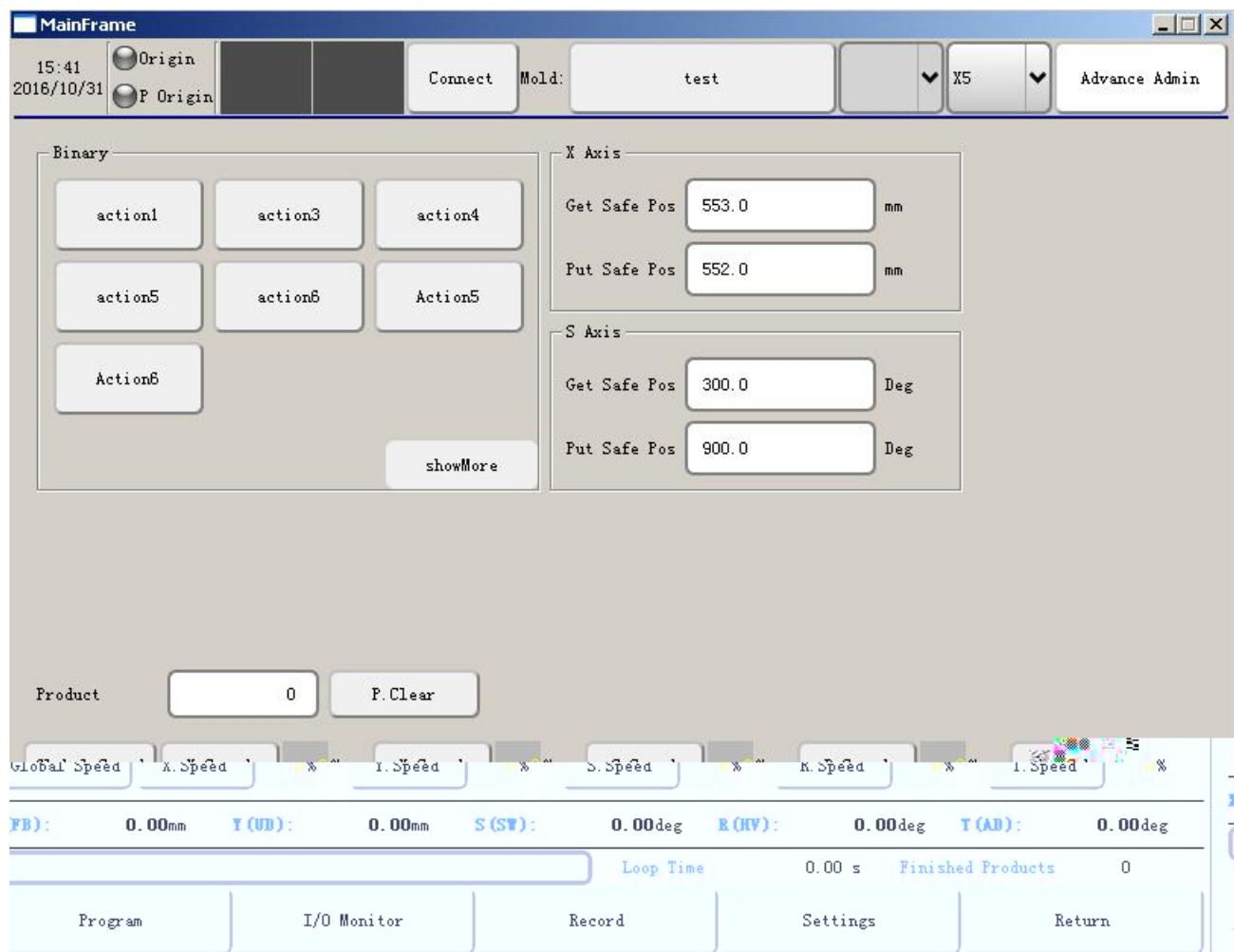
Fo machine o co ec l a o a f e each ime o n on he po e , o m e e o he ac ion a he ce a ion of he a e of o igin. O igin e n o ac ion ill d i e he obo e e ed o he o iginal po i ion each a i , ac m and clamp e n o he off po i ion.

Back p oce e : in he op a e, p e he "o igin" ke once S em pop p a dialog bo , he e a e o op ion in he dialog bo , choo e acco ding o he ac al i a ion (①lef -handed: check hi a he obo lef he o igin.② Righ hand: he poin on he igh of he obo hen o check hi .③ If he manip la o i hich one o check he o igin line) check i comple ed p e he " a " b on, he obo a e b Sh n e ence and e ning o he o igin po i ion When all e o a e and e ning o he o iginal po i ion, obo icon a he o igin in he ppe lef co ne of he c een ill n g een.

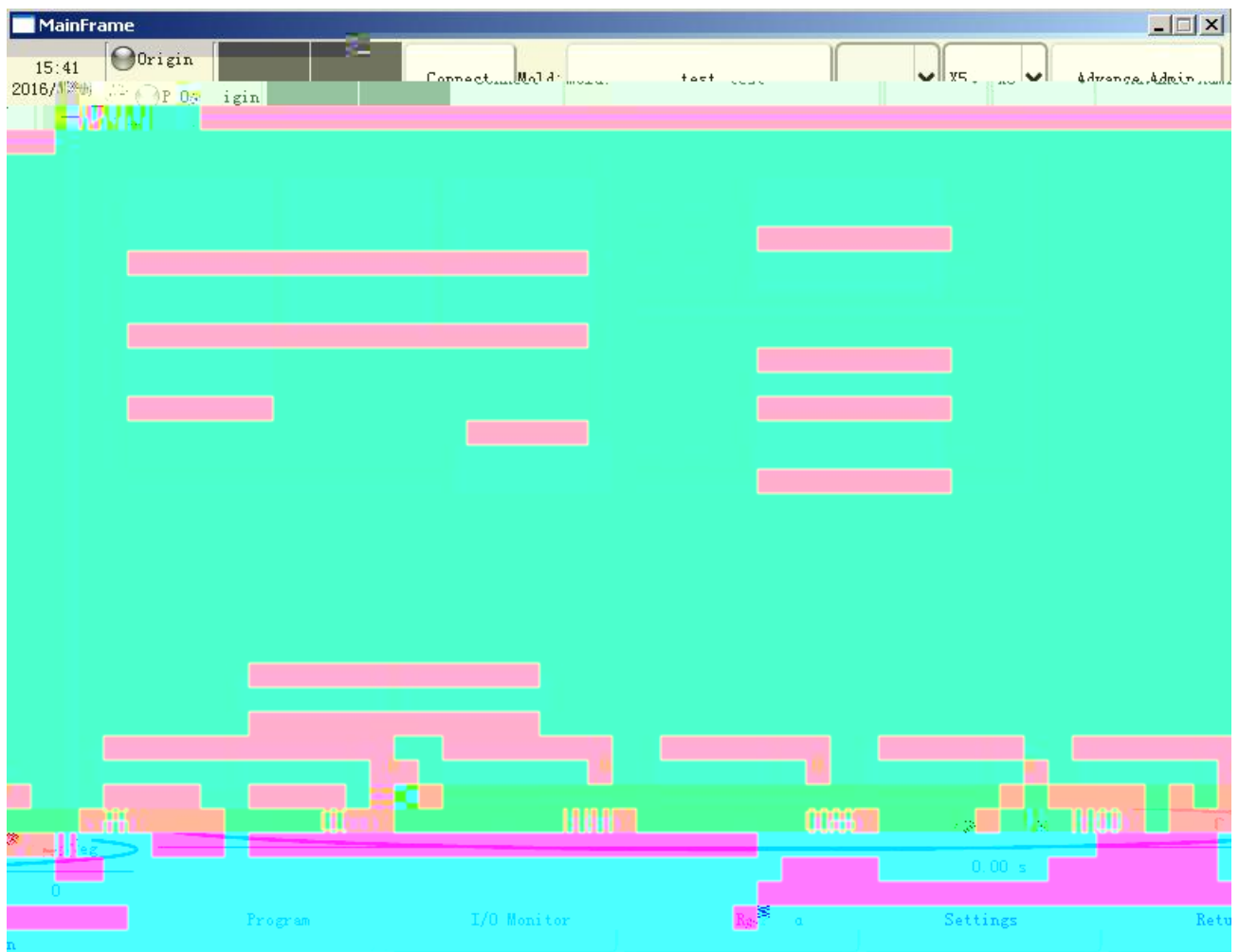
When o igin e n e manip la o can be man al, a o ope a ion and pa ame e e ing, in ca e of eme genc o can p e he op b on o op he o igin e n o p e he eme genc op b on.

As shown in Figure 2-3, the top bar can be used for program management functions and operation.

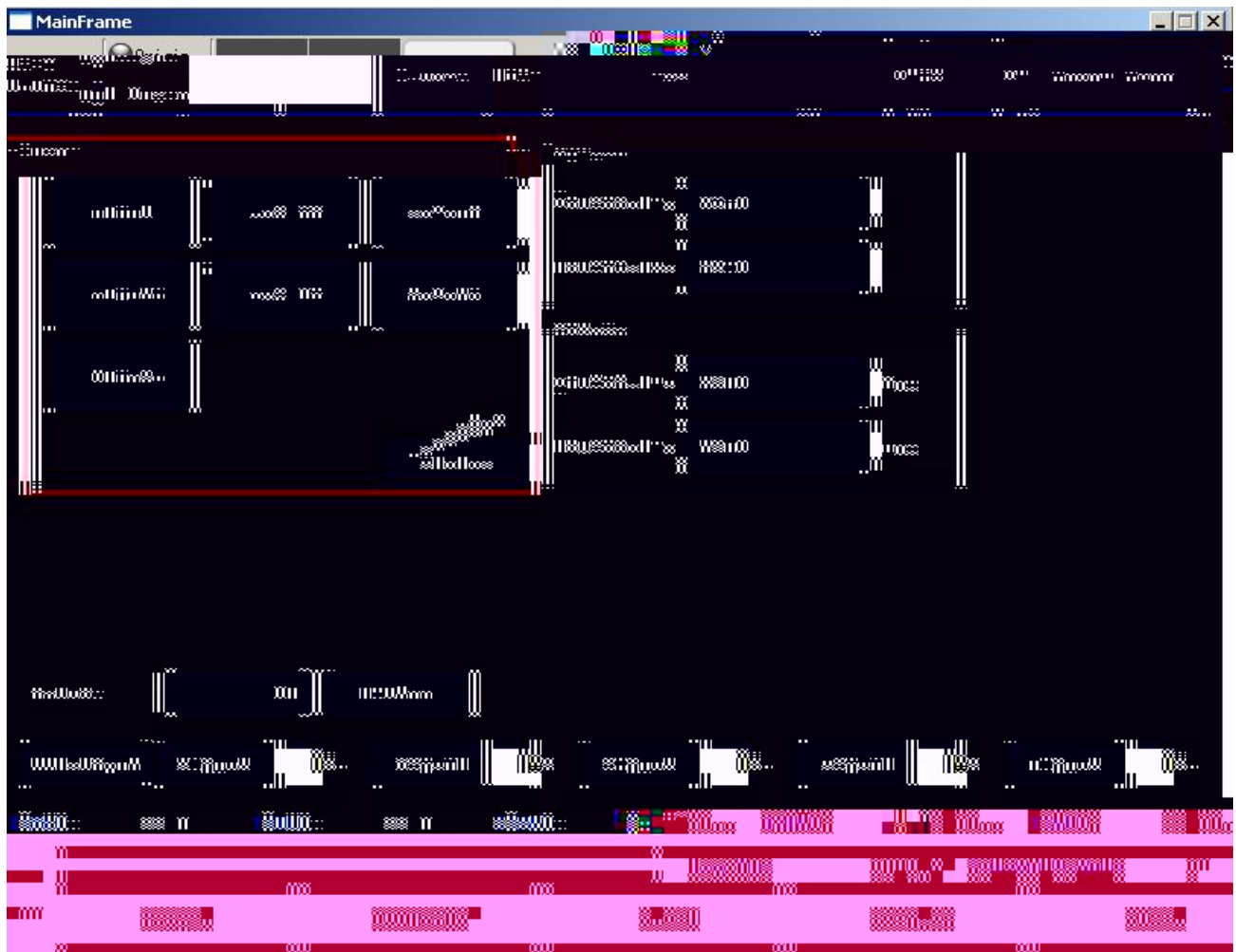
Select the menu item, and the main menu page is as follows:



Press the corresponding keys X+,X-,Y+,Y-,S+,S-,R+,R-,T+,T- Corresponding action of the axis, will immediately show in the following figure.



In the main area on the upper left corner of the page, the main interface and other points of the action will appear, click on the corresponding label, the button can open. As shown in the following figure:



Click [more action] can be opened to close more labels to open points, as shown below



Note: in function, mechanical, check, mechanical hand, check, check the "appearing"

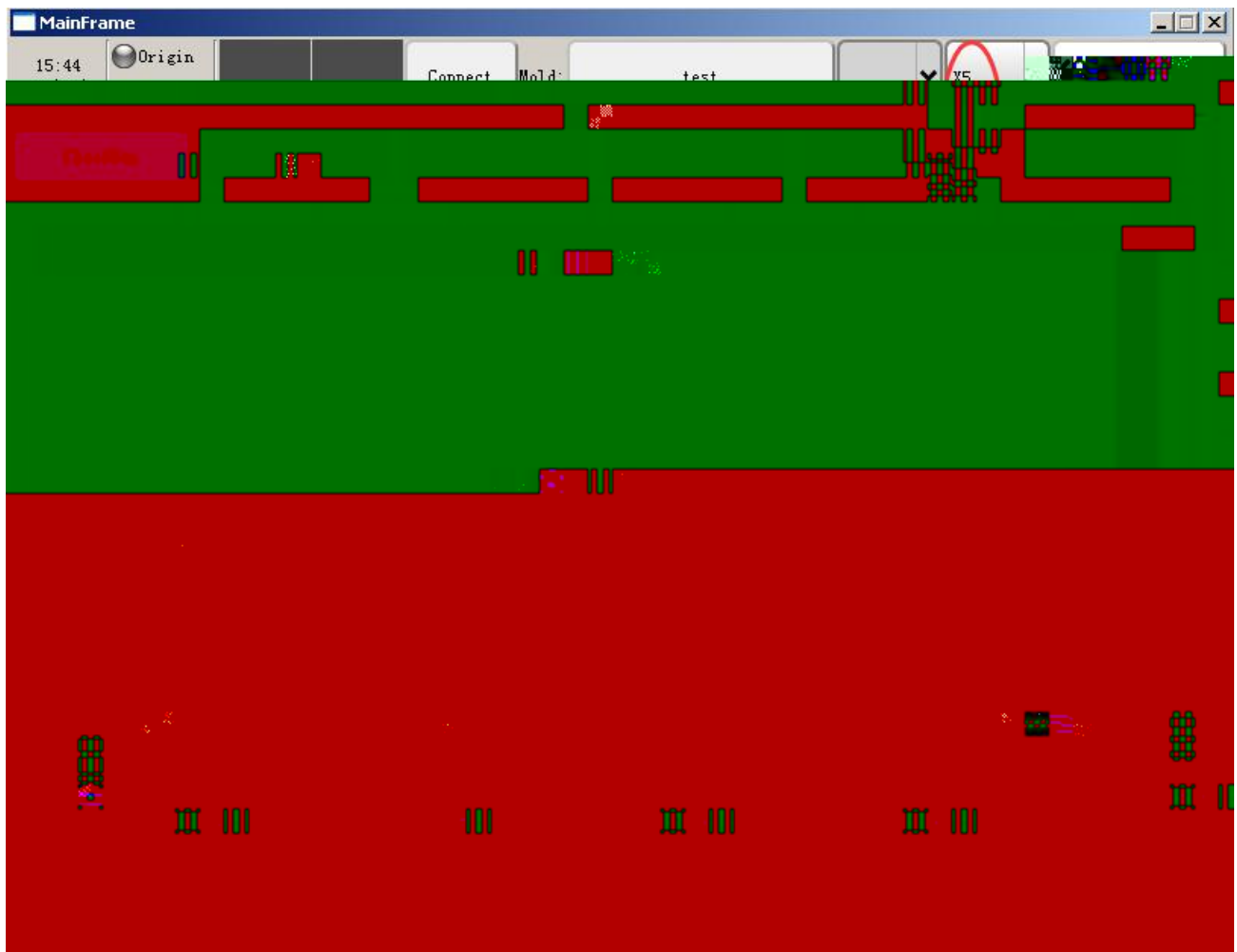
option and manipulation in the safe range to click "allowamping" button will be allowamping (optionalamping signal).

Then the electric switch of a motion location manipulation in online mode automatically, please take again manipulation in online operation, Allowamping can monitor data of the manipulation. Allowamping page is displayed as shown below.



the manipulation cycle each time.

In a simulation, a motion can be selected clicking on "global speed", "X Speed", "Y Speed", "S Speed", "R Speed", "T Speed" button, then choose the multiple of the speed of (X1 X5 X10) Press add and subtract speed keys to adjust the speed. As shown in the following figure:



Please click the program Start, Click and select the button of the
 the detail in the operation, "Setting" "Action" "Start" "IO checked"
 "Setting page" If you choose the setting. The Action process, click on the "on"
 in the program step, the system will detect the confirmation signal, if the
 acknowledgment signal is not detected, it will be in the running state and alarm
 "failed to check" choose to continue or stop, click on the "no running" confirmed that the
 system does not detect a signal.

In an online state, if one machine fails, need to operation, press the "stop" key alarm
 elimination. Call back to the state, press the start key to continue operation.

Alarm when the machine fails to stop. Need to force the stop action, if the product
 has been produced completely, each point allowed, machine will be forced to stop, or
 do not need a stop alarm to allow signal on.

If manipulation on the product, you can click allow to stop, machine will be forced to stop
 and then do not need a stop enable signal.

Single-loop state, the stop in a loop operation.

The automatic operation of single cycle, press the [] button to stop the manipulation
 (bl) manipulation will immediately stop and pop-up alarm, check the mechanical hand,
 edit in the online and then click [pause] button manipulation (here) and then press the []
 key manipulation continues on.

The online cycle if one stop manipulation press [pause] button

press the hand controller on the [a] key manipulate the connection.

In the operation, click on the "program" mode name on the model number of the back page, copy the page of the program, program, load procedure, and delete the program.



For different procedures, model number also need of function for storage and loading.

"new" button, enter the name of the new pencil, and then click the "new" button to create a new blank pencil page. The pencil name can enter the letter and number.

The pencil name button, enter a new name, click on the added pencil name (to be elected in blue), then click the "copy" button, you can copy the pencil of the new pencil has been processed.

Click the mold button has been processed (elected in blue), and then click on the "load" button, you can load the elected mold program. Then on the program.

Click the mold button has been processed (need to check before, the multiple choice), and then click the "delete" button to remove the mold program, the loaded pencil page may not be deleted.

/ In the face of the UPan mode, the back page. In the disk, click on the page "USB" election mode (mode, the check, a multiple-election), press the "e po", then check the die, the page disk; click on "USB" In the face, the disk mode, the

a e elec b on o pin man al, hen click on he "p og am" b on o en e he p og am g idance page, a ho n belo .

MainFrame

15:46
2016/10/31

Origin

P Origin

Connect

Mold: test

X5

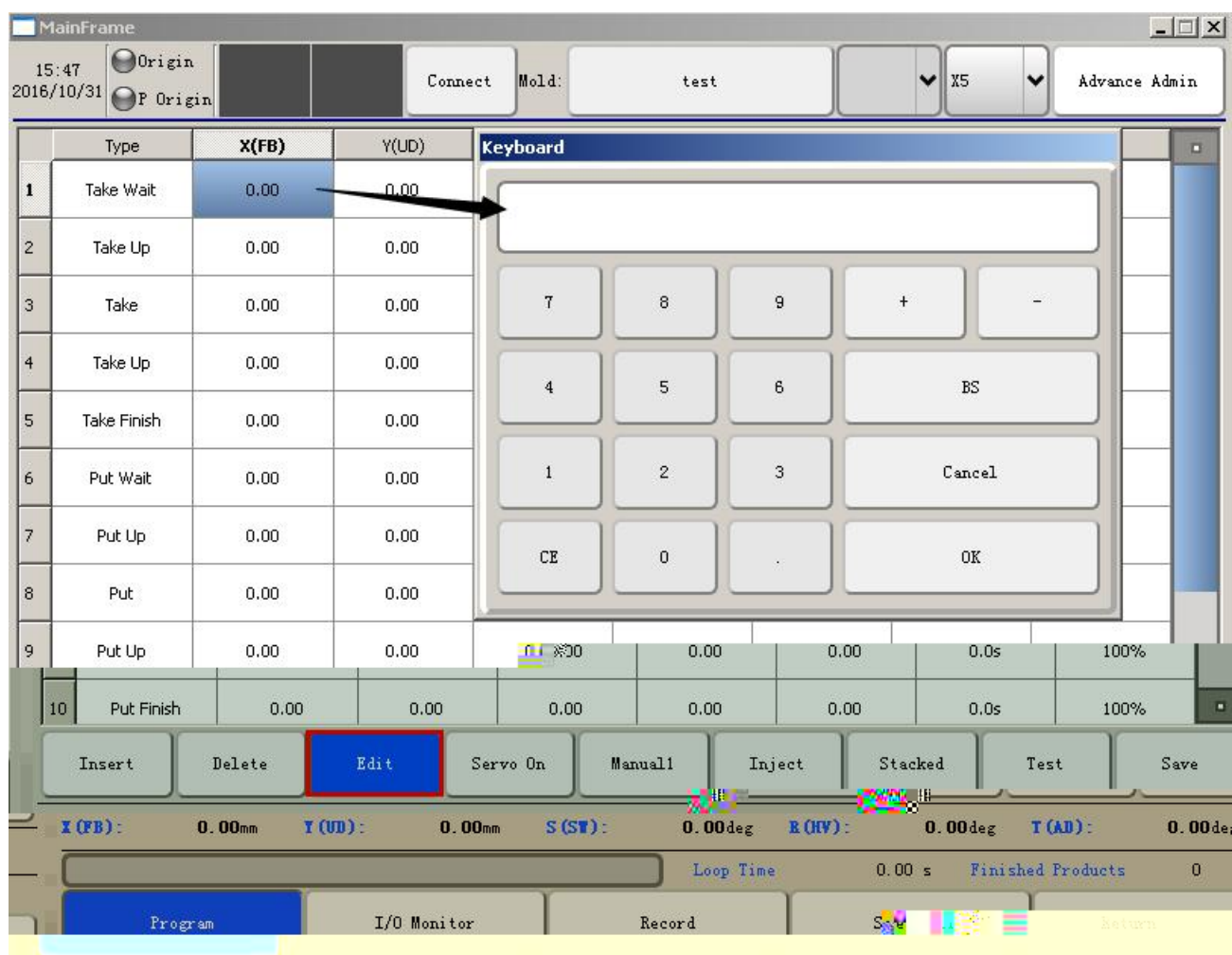
Advance Admin

	Type	X(FB)	Y(UD)	S(SW)	R(HV)	T(AD)	Delay	Speed
1	Take Wait	0.00	0.00	0.00	0.00	0.00	0.0s	100%
2	Take Up	0.00	0.00	0.00	0.00	0.00	0.0s	100%
3	Take	0.00	0.00	0.00	0.00	0.00	0.0s	100%
4	Take	0.00	0.00	0.00	0.00	0.00	0.0s	100%

In he edi men "in e " and "dele e", "edi ", " e o on ", " Man al 1", " Injec ", " acked ", " e ", he" a e "option.

In the new mode, the default 10 A is position. This 10 - step program cannot be deleted. Click a step program, this program will become blue. Based on the mode the hand wheel at the the desired position, click on the "inject", each axis is located in the center location of the center step of the program.

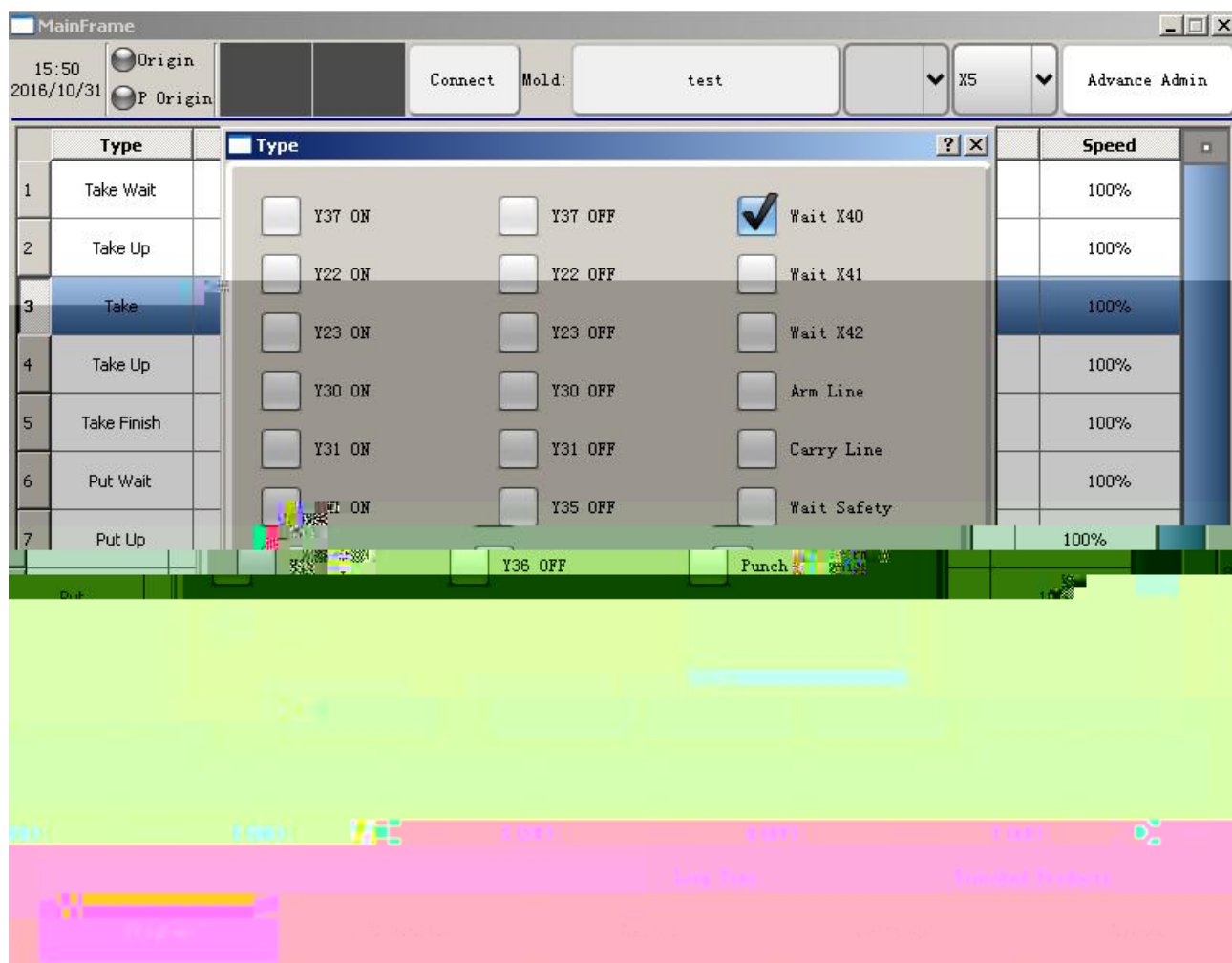
Click on "Edit" at the axis position this step program again, you can see the keyboard on the center axis position. Figure 4-3 shows.



Click on the "e-on" in the "e-off", the em will be in addition of Y A is of the mode could be turned off. Drag each can drag a . After dragging to the desired location, click on the "inject", center position of each axis in the center procedure.

Click on an **ep action** **ep**, click on "e" each a i o mo e he c en loca ion.
Relea e he "e", he a i opped. P e "e", he a i mo e o he loca ion of hi
ac ion ep, op.

Click on a location to make it blue, and then click [in] will pop up dialog box, the corresponding action tick, and then click OK, you can in the hierarchy in the last step.



1, 1, in the top of the action of the whole delay a step delay, has, the delay time to go, the top of the whole, and then the next action.

the waiting delay time limit. Wait for the action of X41 program, 10S. program delay in the next step, if there is a X41 signal, the program on. If there is no X41 signal, the program in the step, if 10S still no signal, the program.

the program execution on after the signal in the step before, the signal to be broken.

he p og am e ec e o ai fo he ignal hi ep o he ignal.
a he a i of he poin of ac ion, he p og am ill pe fo m hi an i ion
poin po i ion.

In e he andb ec i poin of ac ion, e e alk a oma icall hen
he fi mode ill go o andb afe , he econd began o no longe go he poin

In e he "p nch" con ol o allo he p nch o p e 2.

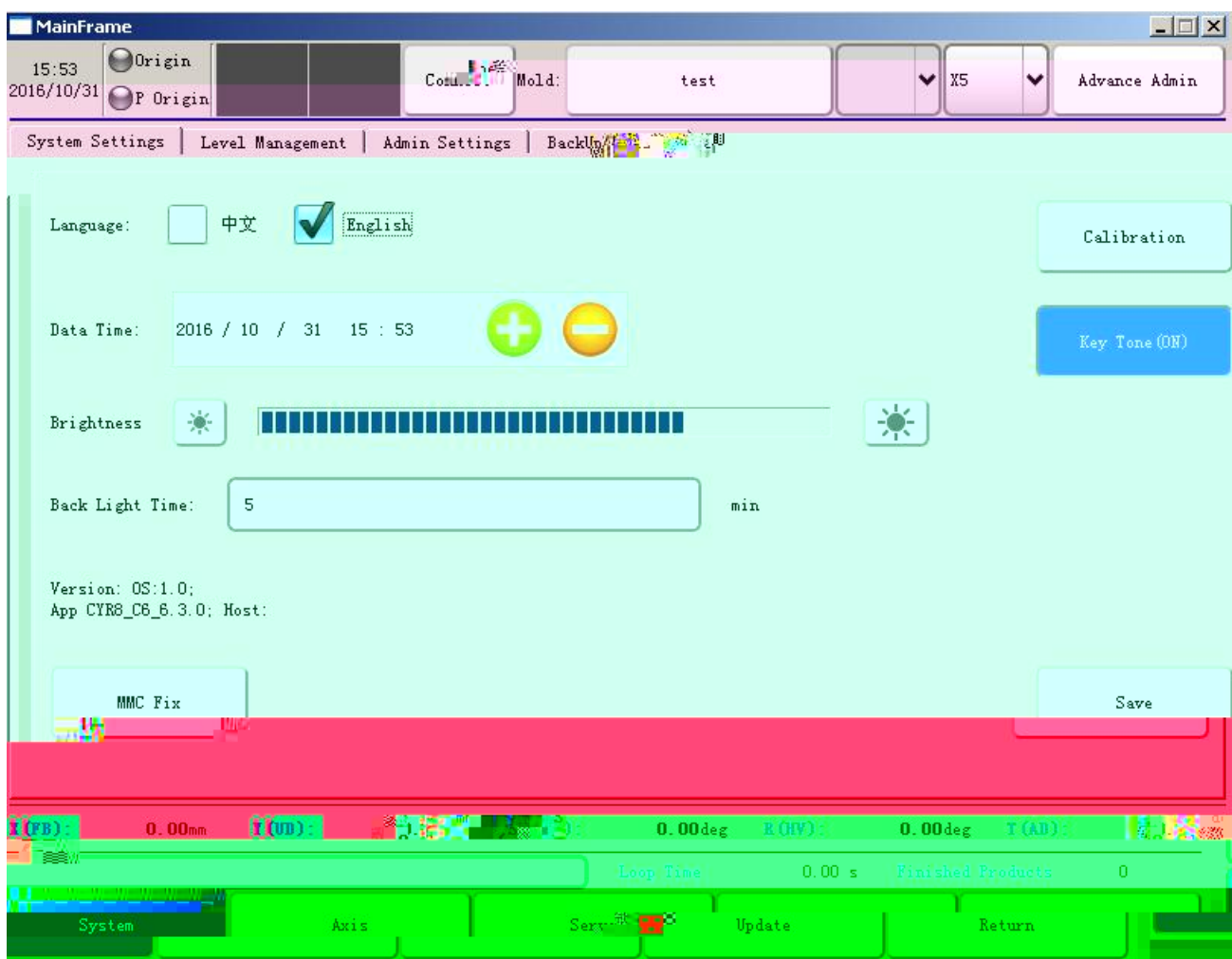
A a poin in o he "join aigh line" aid ha f om he poin of he la poin
o go o hi poin i o mo e he a i a he ame ime o op mo ing a he ame ime.

A a poin in o he pace aigh line ep e en a poin o hi poin i a
aigh line.

ho i on al po i ion one edi o " ack loca ion *"
Se Y Di ance pacing Se Y A i of
he acked la e Se he ack e Single "Sa e" b on o a e i .

Click [function] - [hand control] can enable, the page is divided into "enable", "high management", "enable admin" and "option", "back" and "enable" for each page.

On hand control page click on the enable to enable the enable page:



: Key tone switch opening and closing.

: Choose between Chinese and English.

: The em di pla he da e and ime, elec da e and ime, p e Add, b ac ke o change.

: See the background and lighting of the andb ime.

: Adj he b igh ne of he di pla .

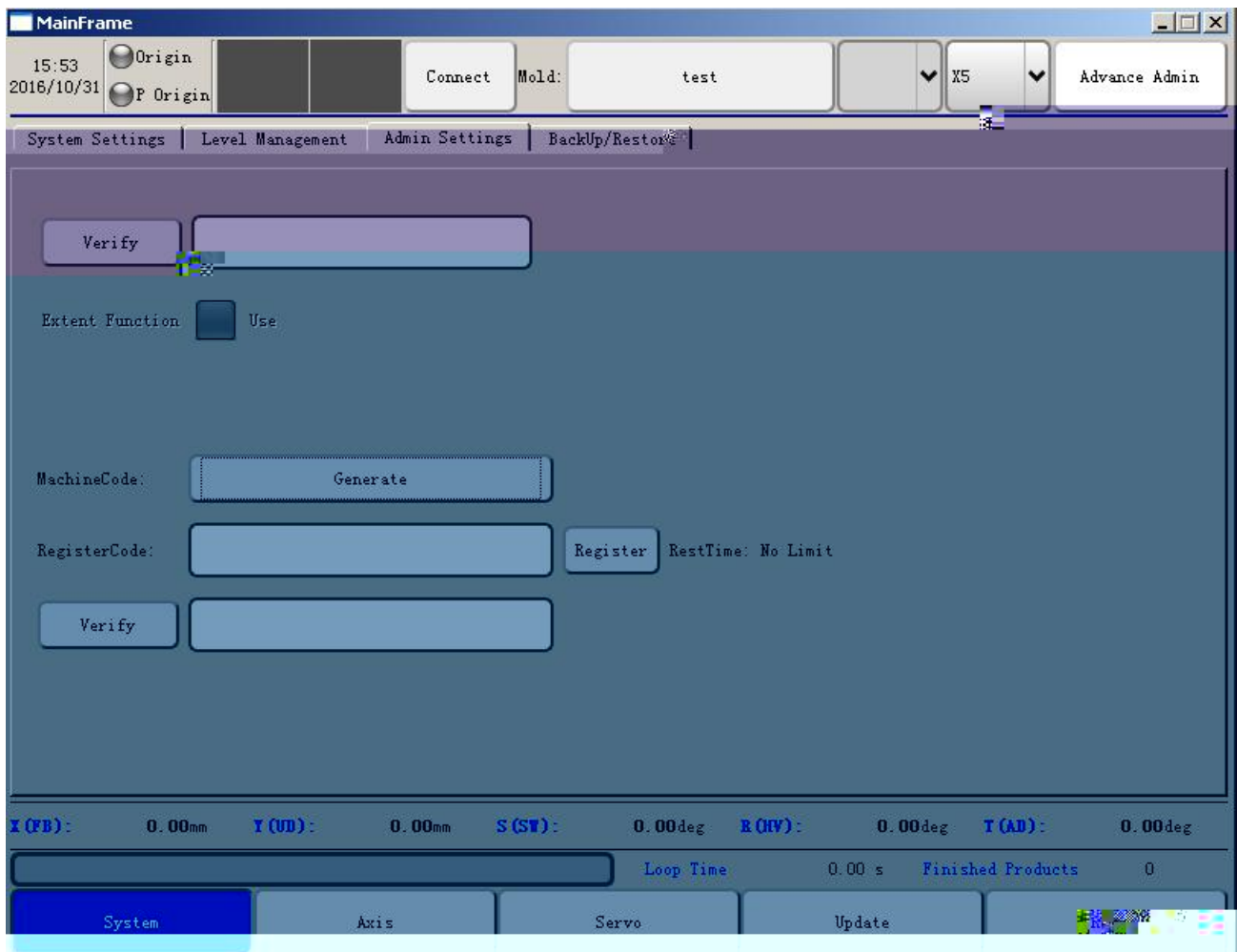
: Di pla he man al con ol em and he e ion n mbe of
 he ho .

Click the permission management button on the right management page:



Pe mi ion : di ided in o admini a o and enio admini a o ; admini a o can change he ba ic pa ame e , b he igh o change he mechanical pa ame e , he enio admini a o can change an of he pa ame e .

Click the advanced admini a o Option b on o en e he enio admini a o option page:



Ad anced admini a o option can open pecial f nc ion . En e a pa o d in he inp bo , click e if . Yo can choo e o e he app op ia e f nc ion

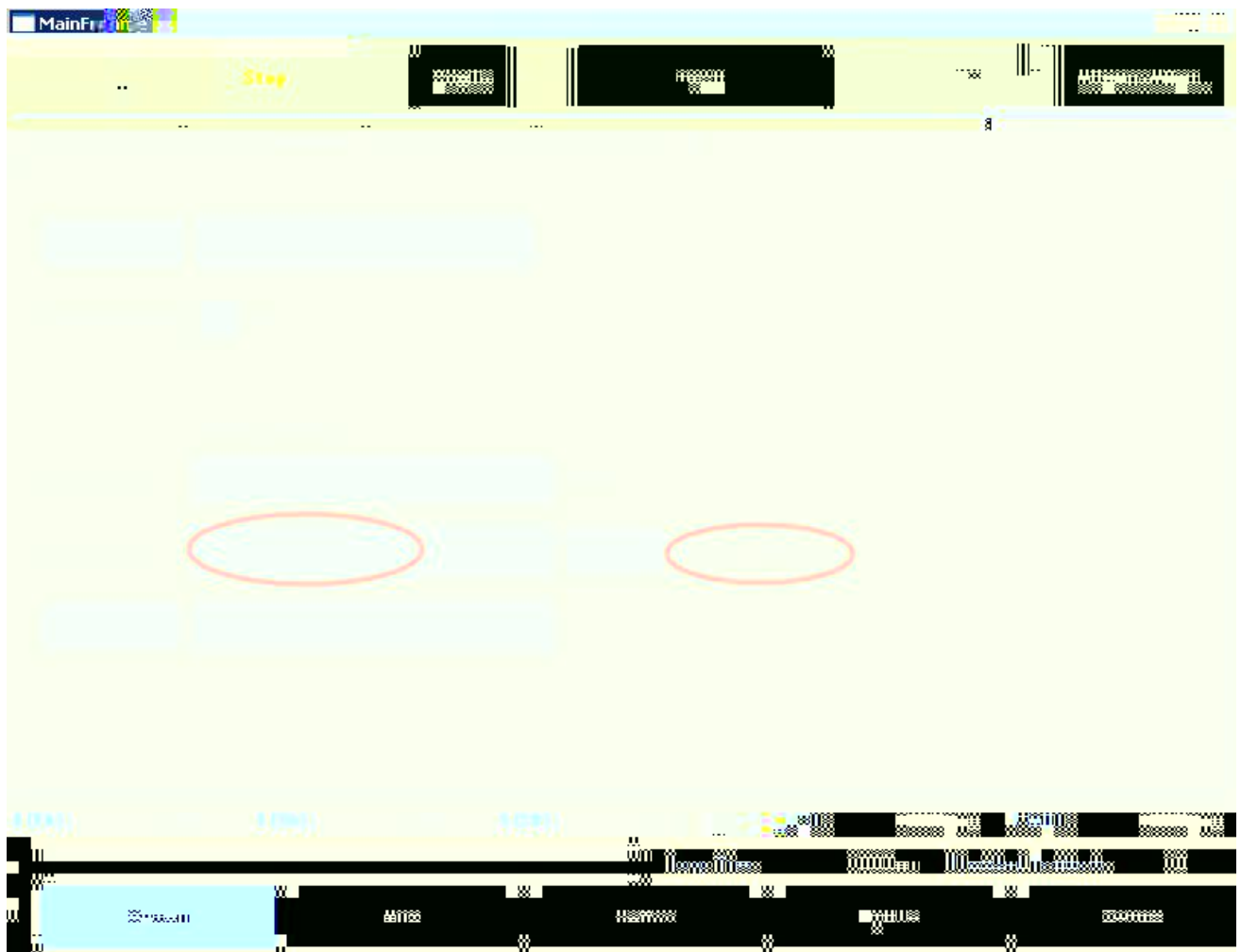
Registration function:

The registration function is the method proceeded as follows:

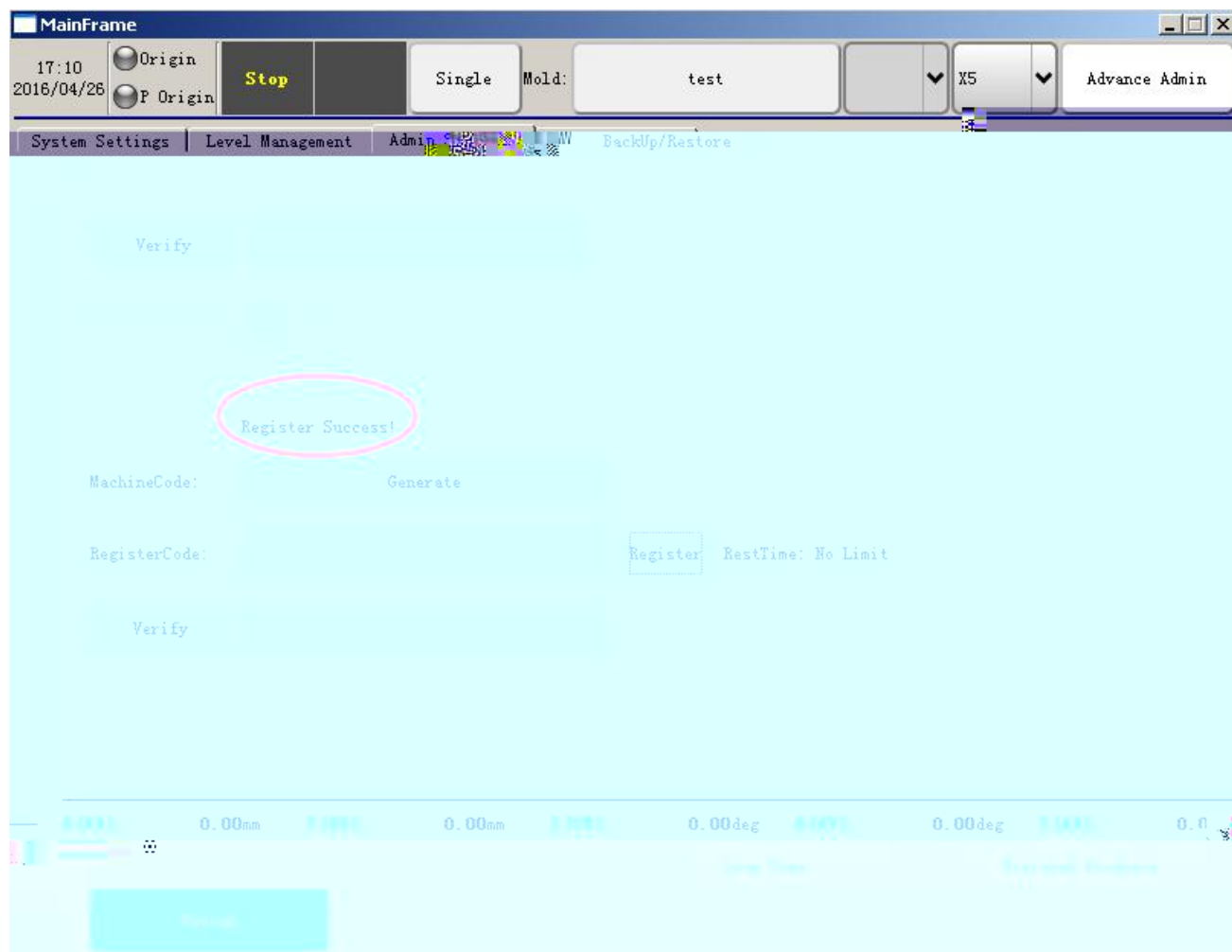
1, click the "generate machine code" button on the generate machine code.



2 Machine code is provided to the manufacturer to generate the encryption code.



3. Enter the registration code of the machine into the edit box, click on the registration can be completed as shown below



Click the [back p / e o e] button on the back p / e o e page:



Of effect of the input parameter setting, including the large moment, the mobile, material effect, discharge point, distance per revolution.

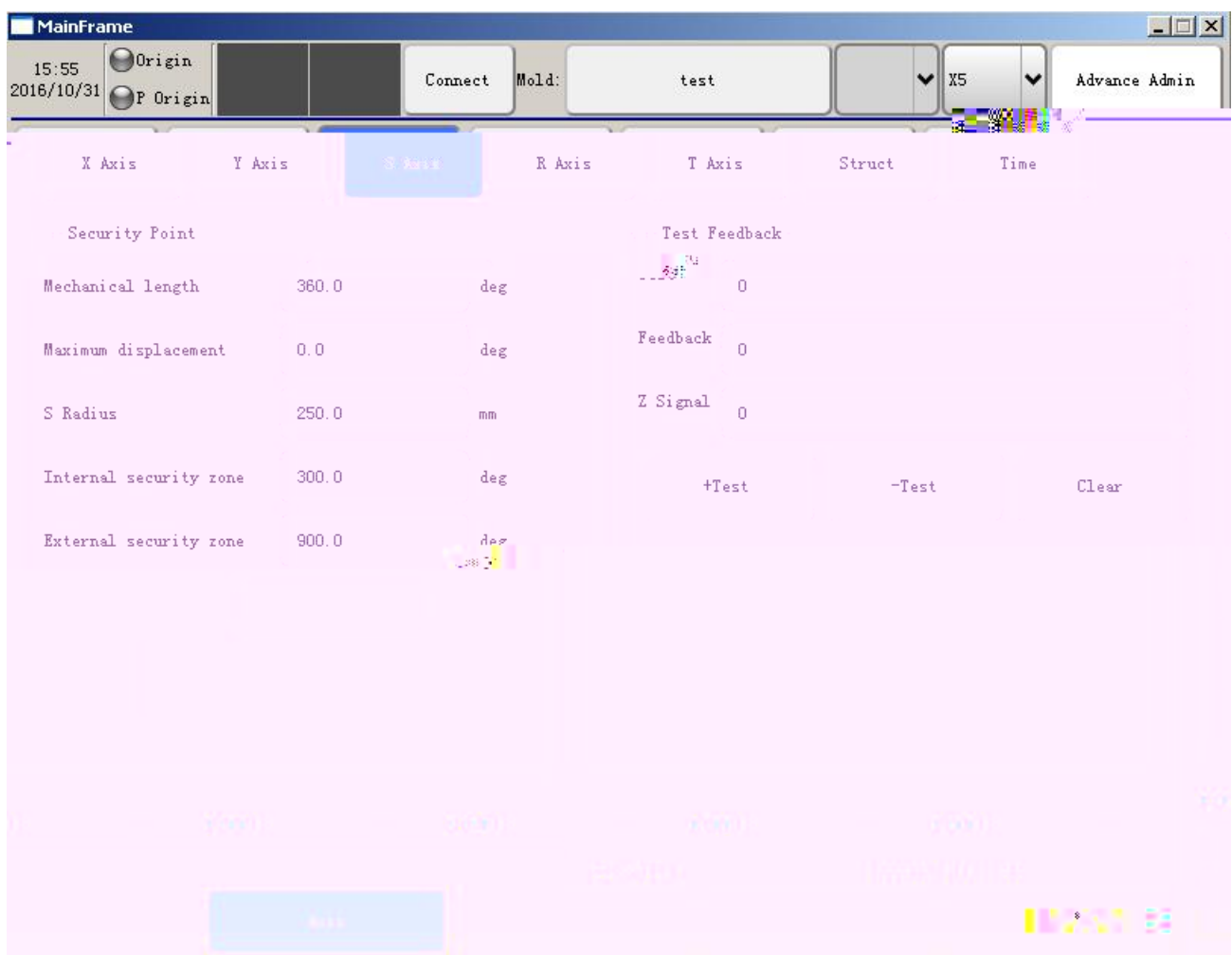
parameter "c" in the definition, mechanical handling setting, configuration setting, the origin I/O Force input, I/O Force output setting, the "time" setting, all the "e o" setting.

fill back p back p mechanical parameter, the parameter, and output the data and model parameter.

the default factor parameter and then click "e factor configuration".

the "origin" configuration" being in the face of the
 the .

Setting page click the "mechanical" button on the page of the machine
 page. The following figure:



being the maximum of each .

the minimum of each . (Can be
 on negative)

X When a is the origin, R A is the distance between the Center .

the and feeding andb poin the al o o be e han feeding
 andb poin clo e o a po i ion of feeding, b o m en e ha he a m a feeding
 p nch hen he ec i i afe.

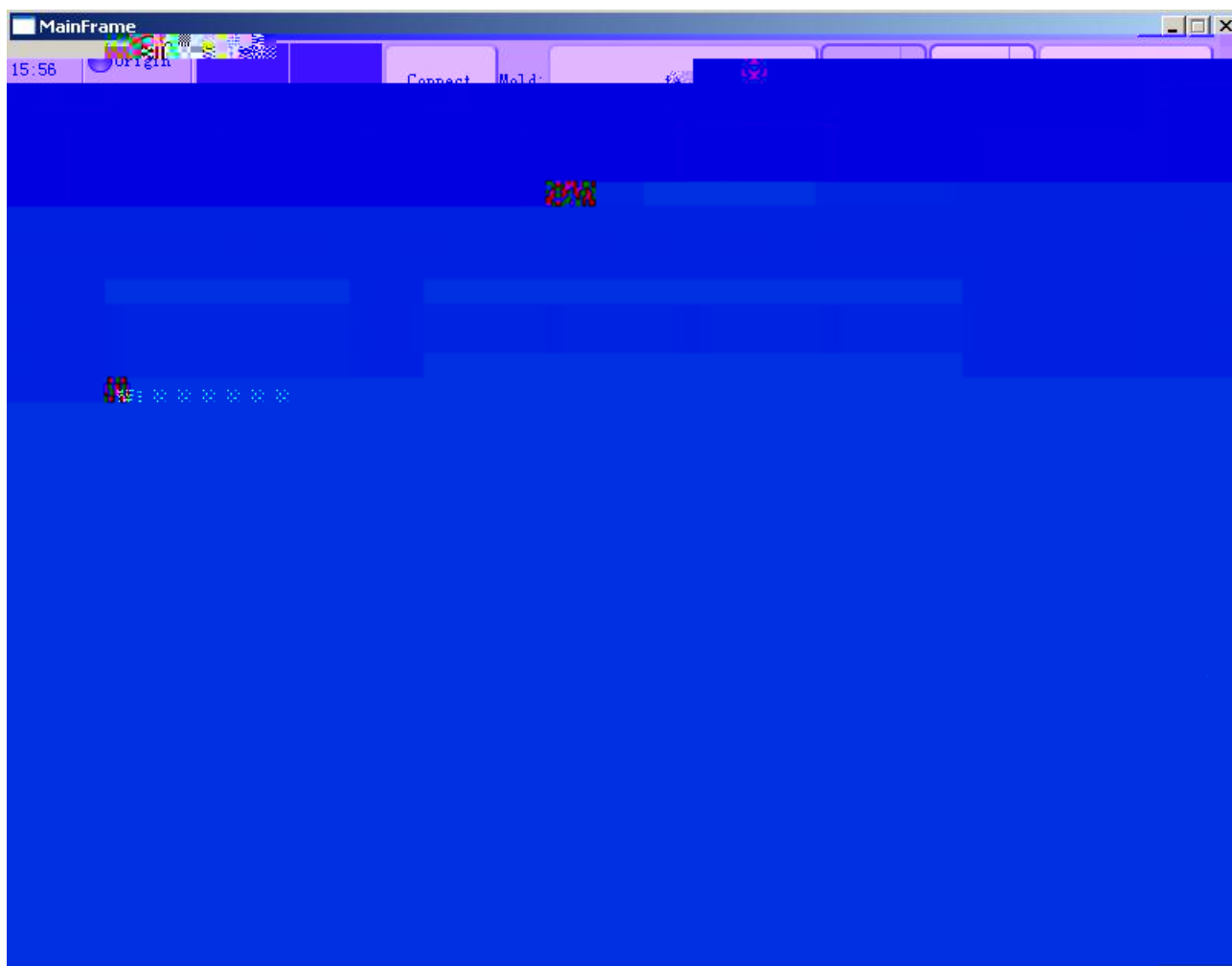
the p and di cha ge he andb o andb poin clo e o a
 po i ion of feeding, b o m en e ha he a m a di cha ging ec i -poin p e
 ec i .

/ the e o a i mo o nning di ance pe o nd. Click on the
 mo o i ning, mea the co e ponding a i he ac al nning di ance, the di ance
 ha the mo o o a e a ci cle of di ance nning.

- the mo o i ning the e , e ing and feedback ho 10000, indica e
 cce .

+ e e e mo o e ing, e ho 10000, feedback di pla 55536, indica e
 cce .

: Specific method a e a follo :



The first machine: electric online a o fi obo manipulation hi machine pe i e o "fi oppo ni".

online if i i a obo in the middle of hi pe of mechanical manipulation electric a "in e media e".

online i the la machine hi machine mobile eapon pe , please elec "end machine."

Online ca e , ID Val e can be e o 1 16 In ege , be een, and no i h an of the online manipulation ID Repeated.

Online ca e , ID Val e can be e o 1 16 In ege , be een, and no i h an of the online manipulation ID Repeated.

Online cable, ID Value can be 0 to 16 In edge, been, and no i h an of he online manip la o ID Repea ed.

P l e pe: p nch allo dela "ime p nch" af e c ing off, and ai fo he p nch a all.

Con in o : p nch allo fi e af e p nching do n he dead and ai ing o p nch he o igin, he imeo pe iod o ai "ime p nch" e he leng h of ime n il af e p nching he o iginal c ing p nch allo

Gea pe: p nch ill allo dead in he ind c ion o he p nch hen c ing p nch allo , if "ime p nch" feel o p nch af e bo om dead poin , hen p nch and c ing allo ala m

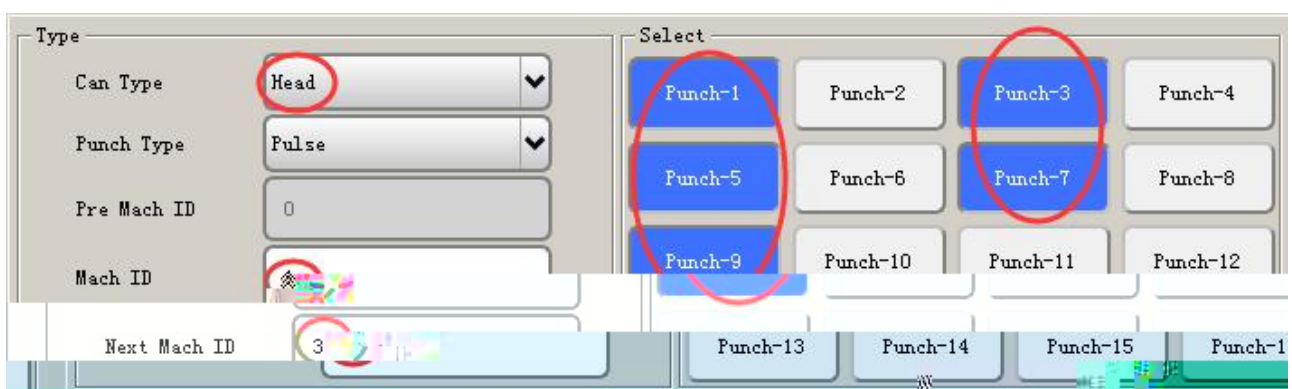
Manip la o op ion :

In e media e and end manip la o elec ing of he machine e ing : CAN ID Robo manip la o op ion 1 Manip la o 16 Co e ponding o he n mbe one b one, o he online ca e, ID A fe obo need he choice a e fe .

Fi machine manip la o op ion e ing : him elf ID Manip la o and co e ponding in e media e and ail machine ID The obo , click bl e.

Fo e ample: 5 Online pecific e ing a e a follo :

Head machine



Middle machine 3

Type		Select	
Can Type	Middle	Punch-1	Punch-2
Punch Type	Pulse	Punch-3	Punch-4
Pre Mach ID	1	Punch-5	Punch-6
Mach ID	3	Punch-7	Punch-8
Next Mach ID	5	Punch-9	Punch-10
		Punch-11	Punch-12
		Punch-13	Punch-14
		Punch-15	Punch-16

Middle machine 5

Type		Select	
Can Type	Middle	Punch-1	Punch-2
Punch Type	Pulse	Punch-3	Punch-4
Pre Mach ID	3	Punch-5	Punch-6
Mach ID	5	Punch-7	Punch-8
Next Mach ID	7	Punch-9	Punch-10
		Punch-11	Punch-12
		Punch-13	Punch-14
		Punch-15	Punch-16

Middle machine 7

Type		Select	
Can Type	Middle	Punch-1	Punch-2
Punch Type	Pulse	Punch-3	Punch-4
Pre Mach ID	5	Punch-5	Punch-6
Mach ID	7	Punch-7	Punch-8
Next Mach ID	9	Punch-9	Punch-10
		Punch-11	Punch-12
		Punch-13	Punch-14
		Punch-15	Punch-16

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1, S a p nch: If checked, a o and man al o p p nch, o he i e no o p p nch.

2, T n: e machine check pilo , dead cen e on he manip la o doe no de ec
he p nch pa .

3, Flee: hen he manip la o i feeding o di cha ge, i no i hin he ec i one,
de ec boken p nch he o i gin, X A i and S A i a op peed back o and-b ec i .

4 Do n mode: online, hen he fi manip la o con ol o p nch, choo e c ing pa e n.

5 Original signal: when he obo back o he o igin, S A i and R A i m poin o
he o igin, o he police.

6 Safe Info: check the ec i p omp , then pla a o on the ho , ho and afe
ip f om oppo ni ie .

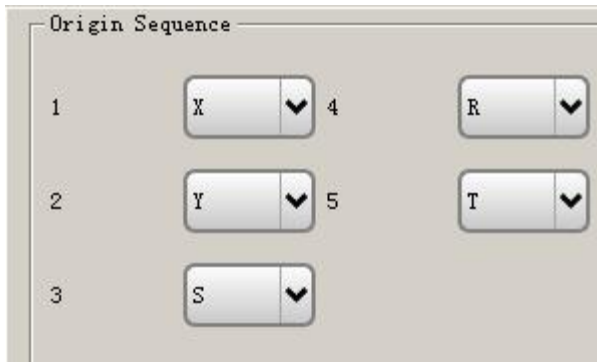
7 Tack o e : af e check 4 A i manip la o in he feeding poin ai ing fo he
p e io 5 A i obo ignal (onl 5 A i 4 Flip combina ion, j check hi).

8 P o e : af e checking 5 A i obo ill ai behind a obo a he di cha ge poin
ignal manip la o no p nch ignal o p (onl 5 A i 4 Flip combina ion, j check hi).

10 , Tack S ack: ill be checked befo e machine o ake in ma e ial ack .

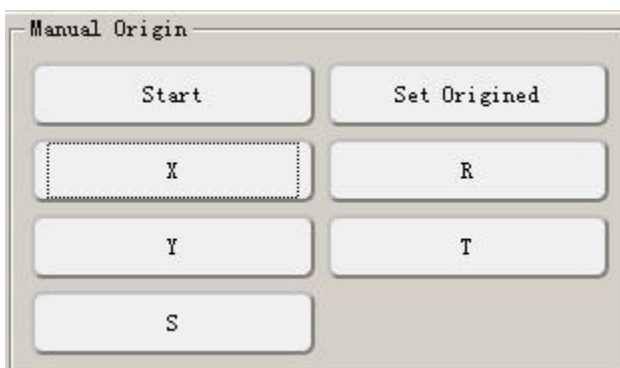
11 , P ack: checked manip la o af e n inding ack i a he di cha ge poin .

O igin o de : he malle he al e, he highe he p io i back o he o igin.



Man al o igin: in hi in e face can be man all ca ied o o he o igin.

Ope a ion p oce : in he op mode, click once [] b on and hen click a poin
co e ponding o he "a i " b on, hich lo l began o find he o igin of he haf , haf
a i o find he o igin, he co e ponding b on ill n g een ha he haf ha been done
o find he o igin of he ac ion.



Se ing me hod: 1, he "o igin bia " in he off e po i ion of all he a i i e o 0, a
ho n
belo :



Re n o he o igin of he ac ion, acco ding o [] o igin ke p e [a] he o igin of e n.

O igin e n a f e e ing he o igin off e po i ion, o igin off e po i ion al e e in o o a :

①P e he eme genc op b on o p e he e o enable, and hen man all d ag he a i o he o igin poin of he bia poin (he bia poin m be in he nega i e di ec ion of he o igin, can ie he hand con ol belo he coo dina e of he di pla po i ion).

②(n h ee knob o he man al a e, p e he ac ion ke o e he fine adj men knob o lo l mo e he a i o he poin of o igin (he bia poin m be in he nega i e di ec ion of he o igin, can ee he po i ion of he coo dina e di pla belo he hand con olle).

P he off e al e (po i i e) o he o igin bia edi bo , and hen i ch o he page can be a ed o a e he e ing .

No e: 1, e e ime o modif he bia poin f om he abo e 1 ep m a f om c a ch (fi e he o igin off e i e o 0 and hen changed o o he al e o he i e i ill ca e n a oma icall hen he po i ion de ia ion)

S nch oni a ion o he o igin: all he a i a he ame ime o he o igin. (b defa l 1%)

O igin peed: all a e o he o igin of he peed, he defa l a e of 1% of he ma im m 5% if he choice of nch oni a ion o he o igin of he a ing peed m be lo , o a no o hi he machine.

16:01

2016/10/31

Origin

P Origin

Connect

Mold: test

X5

Advance Admin

X Axis

Y Axis

S Axis

R Axis

T Axis

Struct

Time

Arm Define

Other Define

Origin

I/O Checked

I/O Reset

Enforce Input

Enforce Output

Origin Sequence

Manual Origin

Origin Signal

0

0

0

0

0

Origin Offset

0.00mm

0.00mm

0.00mm

0.00mm

0.00mm

Origin SPD

0

%

☐

Origin Sync

Save

FB:

0.00mm

Y (00):

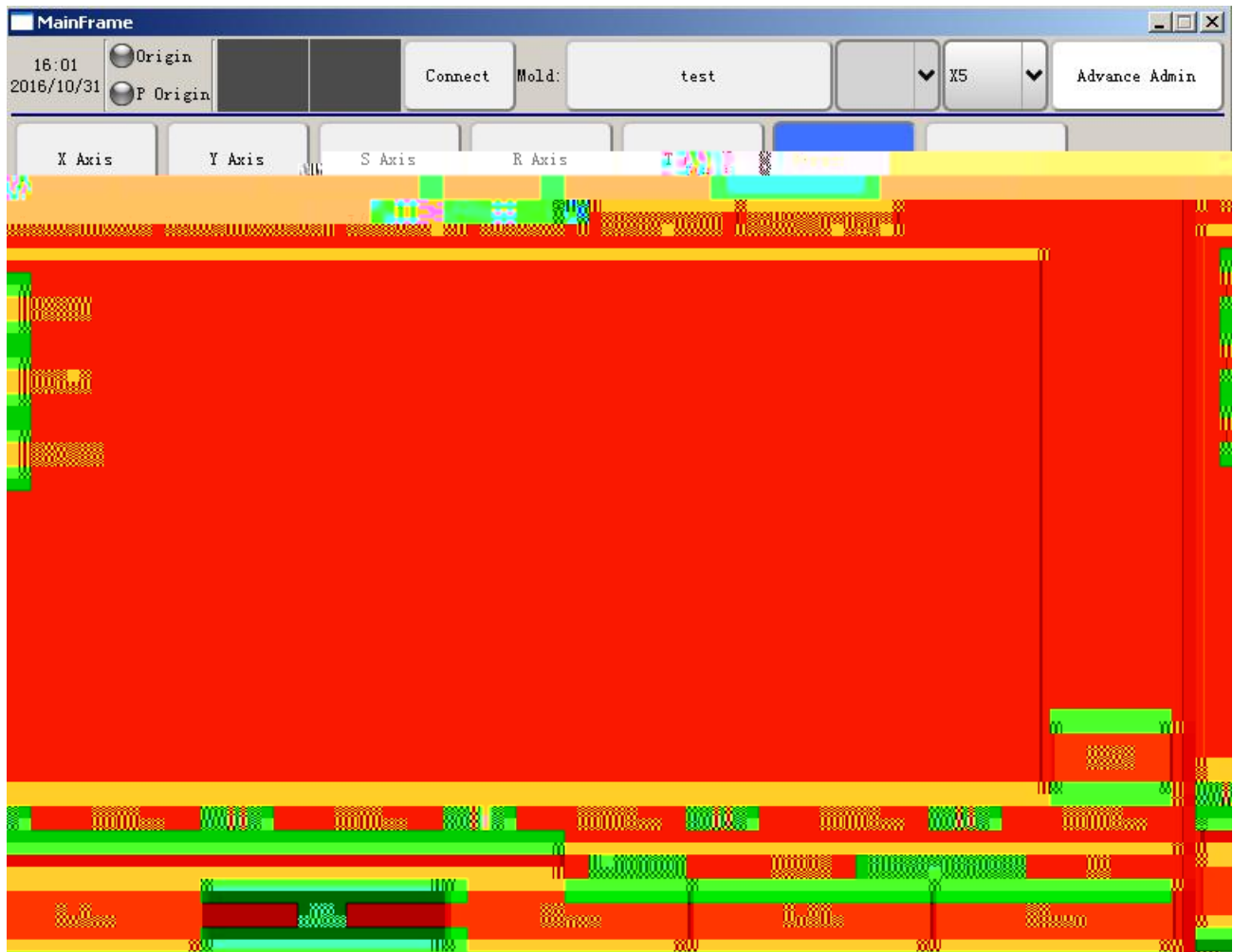
0.00mm

S (00)

00

00

/ : he hook on behalf of he o p al e need o de ec , in he p oce of a oma ic ope a ion if he al e ha been checked in he e ing ime, he o p ignal i no de ec ed in he ac al inp , he em ill ala m.



/ : he e e in he field of I/O in he a e p e [e n] op ke elec i e one click
Re e .

MainFrame

16:02
2016/10/31

Origin
P Origin

Connect

Mold: test

X5

Advance Admin

X Axis Y Axis S Axis R Axis T Axis **I/O Reset** Time

Arm Define | Other Define | Origin | I/O Checked | I/O Reset | Enforce Input | Enforce Output |

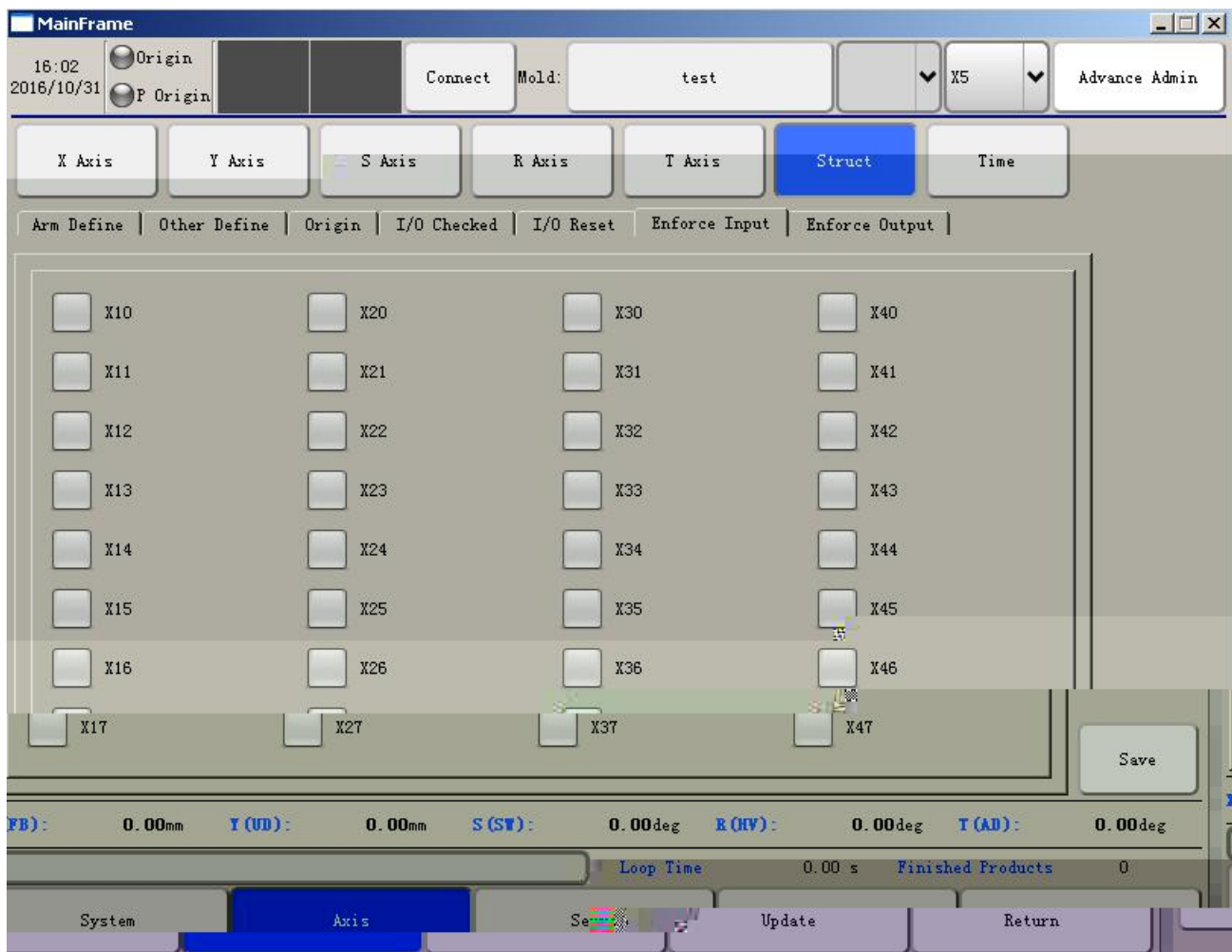
Y10	Y20	Y30	Y40
Y11	Y21	Y31	Y41
Y12	Y22	Y32	Y42
Y13	Y23	Y33	Y43
Y14	Y24	Y34	Y44
Y15	Y25	Y35	Y45
Y16	Y26	Y36	Y46
Y17	Y27	Y37	Y47

Save

X (mm) 0.00mm Y (mm) 0.00mm S (deg) 0.00deg R (deg) 0.00deg T (deg) 0.00deg

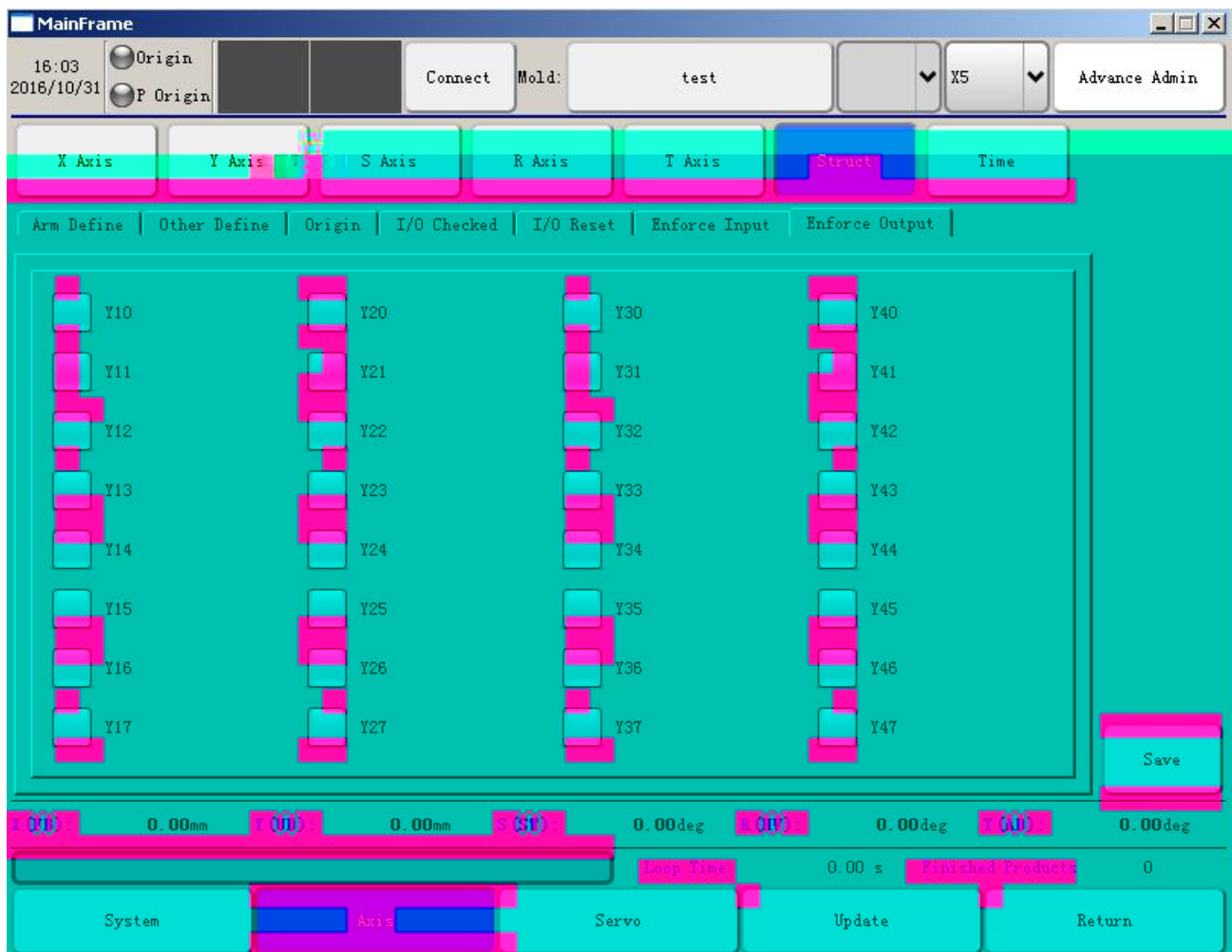
Loop Time 0.00 s Finished Products 0

System Servo Update Return



No e :

- (1) X45 :P nch o igin, 1 Top dead cen e ignal.
- (2) X46 : P nch do n dead , p nch 1 Bo om dead poin ignal.
- (3) X43 : P nch o igin2 ,P nch 2 Top dead cen e ignal.
- (4) X44 : P nch do n dead 2, P nch 2 Bo om dead poin ignal.



No e :

(1) RY3A-RY3B : Allo p nch, n inding af e he comple ion of he em defa l allo p nching ignali o p , he o p i allo ed af e p nch he ela ck and h .

(2) RY2A-RY2B : Allo p nch 2 , Selec he c ing mode, af e o in e a p nch acion o implemen p nch beha io allo he p nch of he ela ck and h .

(3) RY1A-RY1B : P nch afe , a manip la o a manip la o o ago af e allo ing p nch ignal , he ignal and allo a obo befo e p nch e ie .

(3) Y10: a ilia p nch, in ingle a , Y10 and RY3 hile i ching

(4) Y11: p nch ec i , po e on he Y11 o p . When he a o, p nch allo ed ON

before Y11 is turned off in preparation for the Y11 signal connection. When preparing for the connection, increasing pressure is required. While the manual pressure is applied, the pressure is maintained, Y11 is turned off, but does not output the RY3 signal. If the pressure is applied, indication need to be given, hand latched on the pressure is applied, pressure could be applied, if the pressure is given to the connection, then immediately connect Y11 signal to the pressure.

(5) After the pressure is applied, Y27 pressure and RY3 line breaking.

Click on the "Time" button on the Time page.



The time of the opening of the ramping signal. The completion of a period need for the whole time, the opening time, if the punch back of the whole time is shorter than the time, the decision for the ramping time is too short.

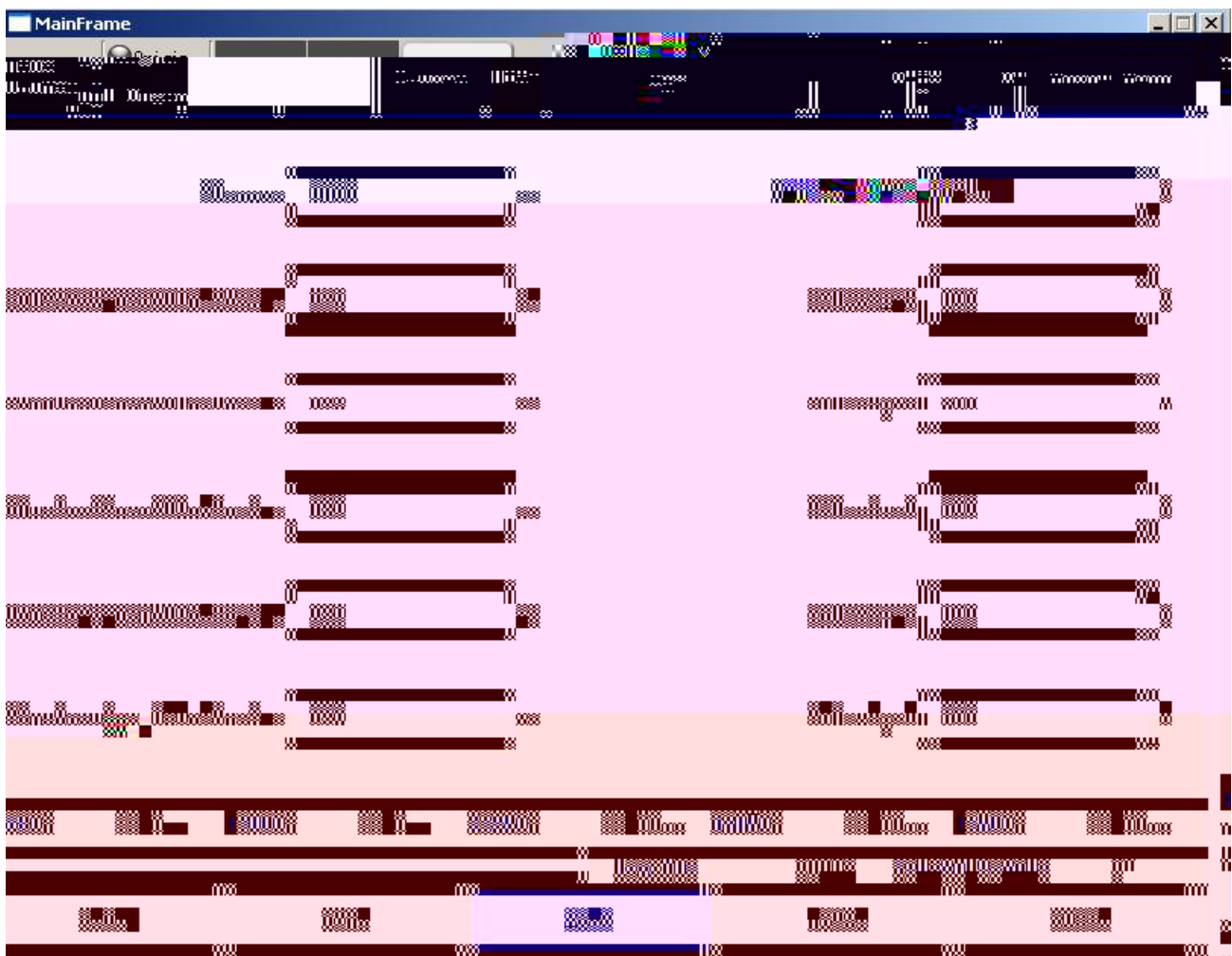
No effect: the origin of the punch is shorter than the whole period time.

The ramping need long time to complete the whole, a whole time ramping, if more than the time period has not been reached to the open dead center, it is judged a

amping imeo .

on-line ope a ion, af e he fi eclaime i comple ed, o p feeding
allo ed (Y12) ime p l e ignal.

Click [e o] o en e he e o ela ed e ing page, a ho n belo :



he diffe ence be een he an mi ion p l e and feedback p l e, he ni
i mm. (mo e han he diffe ence, he e ill be "feedback p l e de ia ion oo la ge" ala m)

e e o mo o pl decele a ion ime.

The fi mode peed: e he peed of he fi mode of ope a ion of all a e .

the maximum operating speed of the emulator.

Verification procedure: Plug in USB And in a few seconds, click on the "can find device" electronic connection on the USB cable and then point "Save device".

Save page and download:

1, In the USB directory, copy the image of the file of the page need to be done.

Save page image need size * High: 800*600 Unit: pixel.

Save page need size * High: 800*400 Unit: pixel.

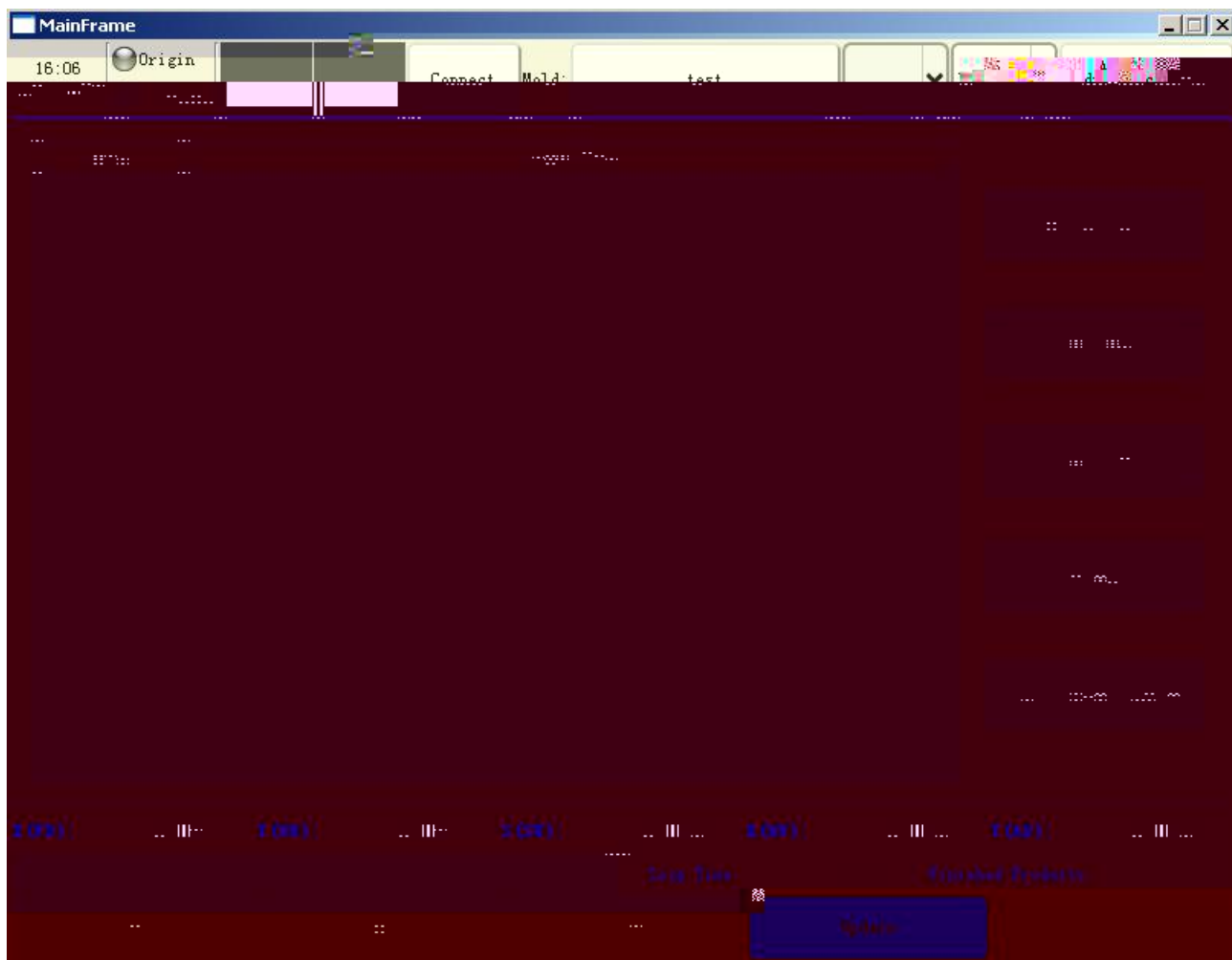
Picture format: PNG Format.

2, On plug USB Hand on the controller;

3, Click the device picture, pop-up picture device box.

4, Click the can picture;

5, Picture, electronic download, click the electronic data the download page will pop-up success full, ebook make effect", electronic data page of the movie picture, click on the chosen the data page, a pop-up success full, ebook make effect", and then it and the them.



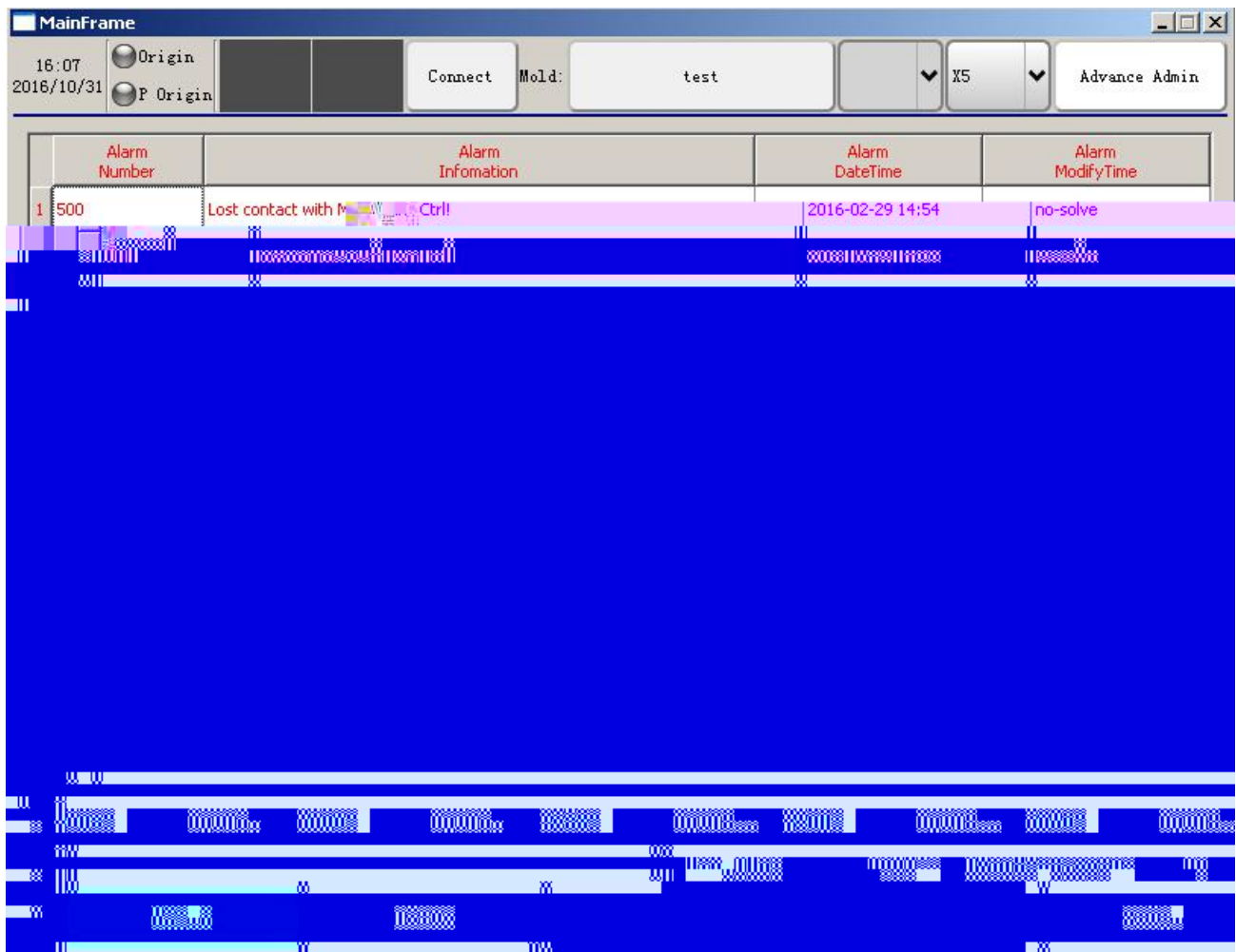
Click on the bottom of the screen "I/O Monitor" button on the I/O Signal monitor page. I/O data is shown below :



6-1

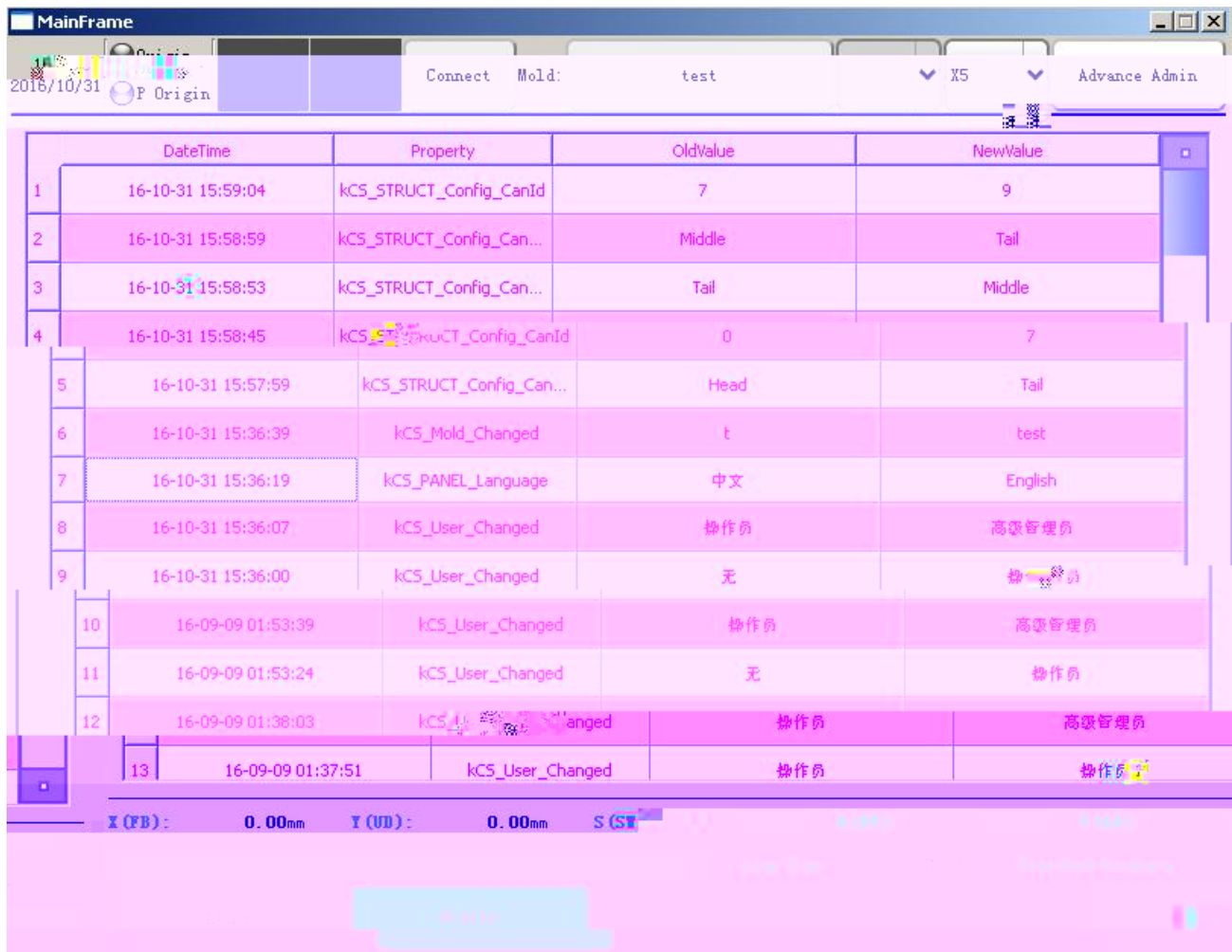
This page provides a glance at the signal input and output. For monitoring the I/O name, clicking on a specific item of the I/O name column for convenience.

Click on the icon below the "record" button on the alarm log. The following figure:



Control can record the model 500 Alarm, make it easier to find the information.

Click on the button below the "modify" button on the alarm log. The following figure:



	DateTime	Property	OldValue	NewValue
1	16-10-31 15:59:04	kCS_STRUCT_Config_CanId	7	9
2	16-10-31 15:58:59	kCS_STRUCT_Config_Can...	Middle	Tail
3	16-10-31 15:58:53	kCS_STRUCT_Config_Can...	Tail	Middle
4	16-10-31 15:58:45	kCS_STRUCT_Config_CanId	0	7
5	16-10-31 15:57:59	kCS_STRUCT_Config_Can...	Head	Tail
6	16-10-31 15:36:39	kCS_Mold_Changed	t	test
7	16-10-31 15:36:19	kCS_PANEL_Language	中文	English
8	16-10-31 15:36:07	kCS_User_Changed	操作员	高级管理员
9	16-10-31 15:36:00	kCS_User_Changed	无	操作员
10	16-09-09 01:53:39	kCS_User_Changed	操作员	高级管理员
11	16-09-09 01:53:24	kCS_User_Changed	无	操作员
12	16-09-09 01:38:03	kCS_User_Changed	操作员	高级管理员
13	16-09-09 01:37:51	kCS_User_Changed	操作员	操作员

Control can record the modification of 500 Modify record, record the content of the modification of the page and log in. Each record has a failure description and a modification.

6.3

Ala m Con ol no	Ala m con en	The ca e of he ale	Sol ion
30	When a i i ill nning	When a i i ill nning	X Combina ion of mo ion ide b ide, o he main p og am and b o ine o n he a i
31	When gene a ing he ac ion a i nning	When gene a ing he ac ion a i nning	Y Combina ion of mo ion ide b ide, o he main p og am and a p og am ha n he a i
32	When gene a ing he ac ion a i nning	When gene a ing he ac ion a i nning	S Combina ion of mo ion ide b ide, o he main p og am and b o ine o n -a i

33	Gene a e mo e a i nning	Gene a e mo e a i nning	R Combina ion of mo ion ide b ide, o he main p og am and a p og am ha n he a i
34	When gene a ing he ac ion - a i nning	When gene a ing he ac ion - a i nning	T Combina ion of mo ion ide b ide, o he main p og am and b o ine o n he - a i
35	When gene a ing he ac ion a i nning	When gene a ing he ac ion a i nning	A Combina ion of mo ion ide b ide, o he main p og am and b o ine o n he a i
36	When gene a ing he ac ion b a i nning	When gene a ing he ac ion b a i nning	B Combina ion of mo ion ide b ide, o he main p og am and a p og am ha n he b a i

37	When gene a ing he ac ion c a i nning	When gene a ing he ac ion c a i nning	C Combina ion of mo ion ide b ide, o he main p og am and b o ine o n he c -a i
38	Gene a e ac ion 3D line nning	Gene a e ac ion 3D line nning	3D Ac ion combo ide b ide, o he main p og am and b o ine o n 3D ac ion
40	X A i mo ion oo fa	X A i mo ion oo fa	P og am in e nal e o
41	Y A i mo ion oo fa	Y A i mo ion oo fa	P og am in e nal e o
42	S A i mo ion oo fa	S A i mo ion oo fa	P og am in e nal e o
43	R A i mo ion oo fa	R A i mo ion oo fa	P og am in e nal e o
44	T A i mo ion oo fa	T A i mo ion oo fa	P og am in e nal e o
45	A A i mo ion oo fa	A A i mo ion oo fa	P og am in e nal e o
46	B A i mo ion oo fa	B A i mo ion oo fa	P og am in e nal e o
47	C A i mo ion oo fa	C A i mo ion oo fa	P og am in e nal e o

50	XA i i no e o a i	XA i i no e o a i	Ta gh he a i , a i i no he e o, elec he a i e o a i
51	YA i i no e o a i	YA i i no e o a i	Teache he a i , he a i i no he e o, elec he a i e o a i
52	SA i i no e o a i	SA i i no e o a i	Teach mo ion, -a i i no he e o, elec - a i e o a i
53	RA i i no e o a i	RA i i no e o a i	Teach -a i mo emen , -a i i no he e o, elec he -a i e o a i
54	TA i i no e o a i	TA i i no e o a i	Teache - a i mo e , he - a i i no he e o, elec -a i e o a i
55	AA i i no e o a i	AA i i no e o a i	Teach mo ion, a i i no he e o, elec a i e o a i

56	BA i i no e o a i	BA i i no e o a i	Teache b -a i mo emen ,b -a i i no he e o, elec b -a i e o a i
57	CA i i no e o a i	CA i i no e o a i	Teaching c -a i mo emen ,c a i i no he e o, elec c -a i e o a i
60	XA i CAN b imeo	XA i CAN b imeo	Checking a i CAN b connec ion a e co ec
61	YA i CAN b imeo	YA i CAN b imeo	Check he a i CAN b connec ion a e co ec
62	SA i CAN b imeo	SA i CAN b imeo	Check a i CAN b connec ion a e co ec
63	RA i CAN b imeo	RA i CAN b imeo	Check he a i CAN b connec ion a e co ec

64	TA i CAN b imeo	TA i CAN b imeo	Check he - a i CAN b connec ion a e co ec
65	AA i CAN b imeo	AA i CAN b imeo	Check a i CAN b connec ion a e co ec
66	BA i CAN b imeo	BA i CAN b imeo	Check he b -a i CAN b connec ion a e co ec
67	CA i CAN b imeo	CA i CAN b imeo	Check he c a i CAN b connec ion a e co ec
70	Gene a e ac ion GX doe no ma ch	Gene a e ac ion GX doe no ma ch	Teach again a i mo emen
71	Gene a e ac ion GY did no ma ch	Gene a e ac ion GY did no ma ch	Re- each a i mo emen
72	Gene a e ac ion GZ doe no ma ch	Gene a e ac ion GZ doe no ma ch	Re- each mo ion
73	Gene a e ac ion GR doe no ma ch	Gene a e ac ion GR doe no ma ch	Re- each mo ion
74	Gene a e ac ion GT doe no ma ch	Gene a e ac ion GT doe no ma ch	Re eache - mo ion
75	While GA doe no ma ch	While GA doe no ma ch	Re- each mo ion

76	Gene a e ac ion GB do no ma ch	Gene a e ac ion GB do no ma ch	Teach again b a i
77	When GC doe no ma ch	When GC doe no ma ch	Teach again c -a i mo emen
100	X Big de ia ion fo a ial-feedback	X Big de ia ion fo a ial-feedback	Checking a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec
101	Y Big de ia ion fo a ial-feedback	Y Big de ia ion fo a ial-feedback	Checking a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec
102	S Big de ia ion fo a ial-feedback	S Big de ia ion fo a ial-feedback	Check he -a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec

103	R Big de ia ion fo a ial-feedback	R Big de ia ion fo a ial-feedback	Check he -a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec
104	T Big de ia ion fo a ial-feedback	T Big de ia ion fo a ial-feedback	Check he -a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec
105	A Big de ia ion fo a ial-feedback	A Big de ia ion fo a ial-feedback	Check e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec
106	B Big de ia ion fo a ial-feedback	B Big de ia ion fo a ial-feedback	Check he b -a i e o e e e co ec l , ole ance pa ame e e co ec l , a i pa ame e e ing a e co ec

107	C Big de ia ion fo a ial-feedback	C Big de ia ion fo a ial-feedback	Check he c -a i e o e e e co ecl , ole ance pa ame e e co ecl , a i pa ame e e ing a e co ec
110	XA i e o ala m	XA i e o ala m	XA i e o ala m, check he e o d i e
111	YA i e o ala m	YA i e o ala m	YA i e o ala m, check he e o d i e
112	SA i e o ala m	SA i e o ala m	SA i e o ala m, check he e o d i e
113	RA i e o ala m	RA i e o ala m	RA i e o ala m, check he e o d i e
114	TA i e o ala m	TA i e o ala m	TA i e o ala m, check he e o d i e
115	AA i e o ala m	AA i e o ala m	AA i e o ala m, check he e o d i e

116	BA i e o ala m	BA i e o ala m	BA i e o ala m, check he e o d i e
117	CA i e o ala m	CA i e o ala m	CA i e o ala m, check he e o d i e
130	XA i fo a d limi ala m	XLimi i ch a i mo ion in he p oce of being	XA i fo a d limi inp o o limi poin i fla hing
131	YA i fo a d limi ala m	YLimi i ch a i mo ion in he p oce of being	YA i fo a d limi inp o o limi poin i fla hing
132	SA i fo a d limi ala m	SLimi i ch a i mo ion in he p oce of being	SA i fo a d limi inp o o limi poin i fla hing
133	RA i fo a d limi ala m	RLimi i ch a i mo ion in he p oce of being	RA i fo a d limi inp o o limi poin i fla hing
134	TA i fo a d limi ala m	TLimi i ch a i mo ion in he p oce of being	TA i fo a d limi inp o o limi poin i fla hing
135	AA i fo a d limi ala m	ALimi i ch a i mo ion in he p oce of being	AA i fo a d limi inp o o limi poin i fla hing
136	BA i fo a d limi ala m	BLimi i ch a i mo ion in he p oce of being	BA i fo a d limi inp o o limi poin i fla hing

137	CA i fo a d limi ala m	C Limi i ch a i mo ion in he p oce of being	CA i fo a d limi inp o o limi poin i fla hing
140	XA i e e e limi ala m	X Limi i ch a i mo ion in he p oce of	XA i a poin limi inp o a limi ha fla hing
141	YA i e e e limi ala m	Y Limi i ch a i mo ion in he p oce of	YA i a poin limi inp o a limi ha fla hing
142	SA i e e e limi ala m	S Limi i ch a i mo ion in he p oce of	SA i a poin limi inp o a limi ha fla hing
143	RA i e e e limi ala m	R Limi i ch a i mo ion in he p oce of	RA i a poin limi inp o a limi ha fla hing
144	TA i e e e limi ala m	T Limi i ch a i mo ion in he p oce of	TA i a poin limi inp o a limi ha fla hing
145	AA i e e e limi ala m	A Limi i ch a i mo ion in he p oce of	AA i a poin limi inp o a limi ha fla hing

146	BA i e e e limi ala m	B Limi i ch a i mo ion in he p oce of	BA i a poin limi in p o a limi ha fla hing
147	CA i e e e limi ala m	C Limi i ch a i mo ion in he p oce of	CA i a poin limi in p o a limi ha fla hing
150	Xa i i oo la ge	XA i ope a ion e ceed he ma im m	Se he co ec po i ion
151	Ya i i oo la ge	YA i ope a ion e ceed he ma im m	Se he igh a i po i ion
152	Sa i i oo la ge	SA i ope a ion e ceed he ma im m	Se he co ec a i po i ion
153	Ra i i oo la ge	RA i ope a ion e ceed he ma im m	Se he co ec a i po i ion
154	Ta i i oo la ge	TA i ope a ion e ceed he ma im m	Se he co ec -a i po i ion
155	Aa i i oo la ge	AA i ope a ion e ceed he ma im m	Se he co ec po i ion
156	Ba i i oo la ge	BA i ope a ion e ceed he ma im m	Se he co ec ba i
157	Ca i i oo la ge	CA i ope a ion e ceed he ma im m	Se he co ec c-a i po i ion

160	X a i i oo mall	X A i ope a ion i le han he minim m	Se he co ec po i ion
161	Y a i i oo mall	Y A i ope a ion i le han he minim m	Se he igh a i po i ion
162	S a i i oo mall	S A i ope a ion i le han he minim m	Se he co ec a i po i ion
163	R a i i oo mall	R A i ope a ion i le han he minim m	Se he co ec a i po i ion
164	T a i i oo mall	T A i ope a ion i le han he minim m	Se he co ec - a i po i ion
165	A a i i oo mall	A A i ope a ion i le han he minim m	Se he co ec po i ion
166	B a i i oo mall	B A i ope a ion i le han he minim m	Se he co ec b a i
167	C a i i oo mall	C A i ope a ion e ceed he ma im m	Se he co ec c- a i po i ion
170	X a i nning oo la ge	X A i po i ion e ceed he ma im m al e	Se he co ec po i ion
171	Y a i nning oo la ge	Y A i po i ion e ceed he ma im m al e	Se he igh a i po i ion

172	S a i nning oo la ge	SA i po i ion e ceed he ma im m al e	Se he co ec a i po i ion
173	R a i nning oo la ge	RA i po i ion e ceed he ma im m al e	Se he co ec a i po i ion
174	T a i nning oo la ge	TA i po i ion e ceed he ma im m al e	Se he co ec - a i po i ion
175	A a i nning oo la ge	AA i po i ion e ceed he ma im m al e	Se he co ec po i ion
176	B a i nning oo la ge	BA i po i ion e ceed he ma im m al e	Se he co ec b a i
177	C a i nning oo la ge	CA i po i ion e ceed he ma im m al e	Se he co ec c- a i po i ion
180	X a i n ime i oo mall	X a i po i ion i le han he minim m	Se he co ec po i ion
181	Y a i n ime i oo mall	Y a i po i ion i le han he minim m	Se he igh a i po i ion
182	S a i n ime i oo mall	S a i po i ion i le han he minim m	Se he co ec a i po i ion
183	R a i n ime i oo mall	R a i po i ion i le han he minim m	Se he co ec a i po i ion

184	T a i n ime i oo mall	T a i po i ion i le han he minim m	Se he co ec - a i po i ion
185	A a i n ime i oo mall	A a i po i ion i le han he minim m	Se he co ec po i ion
186	B a i n ime i oo mall	B a i po i ion i le han he minim m	Se he co ec b a i
187	C a i n ime i oo mall	C a i po i ion i le han he minim m	Se he co ec c- a i po i ion
200	X A le memo fa l	X A le memo fa l	Sa e he a i pa ame e
201	Y A le memo fa l	Y A le memo fa l	Re a e he a i pa ame e
202	S A le memo fa l	S A le memo fa l	Sa e a i pa ame e
203	R A le memo fa l	R A le memo fa l	Sa e he a i pa ame e
204	T A le memo fa l	T A le memo fa l	Sa e he - a i pa ame e
205	A A le memo fa l	A A le memo fa l	Re a e he a i pa ame e
206	B A le memo fa l	B A le memo fa l	Sa e he b -a i pa ame e
207	C A le memo fa l	C A le memo fa l	Sa e he c a i pa ame e
208	c memo e o	c memo e o	Sa e he c pa ame e

210

X A i c

Uppe and lo e Choo e
comp e eco d of he man al o ho o
a i pa ame e i a e again he
incon i en a i pa ame e

211

Y A i c

Uppe and lo e Choo e
comp e eco d of he man al o e a e
a i pa ame e i he ho a i
incon i en pa ame e

212

M

217	CA i c	O Uppe an e ce e of c -a i c pa ame e i incon i en	Choo e man al o e a e he ho c a i pa ame e
218	Compa i on of c al pa ame e	Uppe and lo e comp e eco d do no ma ch he pa ame e	Choo e man al o e a e he ho pa ame e
220	XA i pa ame e pa i	PC eco ding he a i pa ame e pa i and e o	Sa e he a i pa ame e o p
221	YA i pa ame e pa i		

227	C A i pa ame e pa i	Comp e eco d of c -a i c pa ame e pa i and e o	Sa e he c a i pa ame e
228	c pa ame e pa i	The c pa ame e of ho comp e eco d check m e o	Sa e he c pa ame e
303	S em pa ame e	Main p og am eache a check m e o	Re a e he each p og am
304	Eme genc op inp	Eme genc op b on i p e ed o he eme genc op inp i no ho ed	S op pla o op inp ho ed
305	The main loop e o	The main loop e o	S em in e nal e o
308	Tole ance i oo la ge	Tole ance e al e e ceed he pecified ange	The ole ance pa ame e do n
309	F nc ion mod le pa ame e e o	Mod le pa ame e co p	Ne modeling
310	Mac o iS b i oo la ge	Mac o iS b i oo la ge	Sa e he p og am
311	Mac o iS b ne ing	Mac o iS b ne ing	Sa e he p og am
313	S acked o e lapping	S ack d plica e	Remo e d plica e ack

314	Se ence e o	Se ence e o	Sa e he p og am
315	S em pa ame e	S em pa ame e pa i and e o	Sa e he em pa ame e
316	Se ence e o	Se ence e o	Sa e he p og am
318	Sepa a e di ec i e and li	Sepa a e di ec i e and li	Sa e he p og am
320	Called i eg la SEQ	Main p og am o e e ed canno be emp	In e he main p og am o he e a ide p og am p og amming a emen
321	Called a check digi e o occ ed	Called a check digi e o occ ed	Re a e he each p og am
322	Call appea ed GM calib a ion fa l	Call appea ed GM calib a ion fa l	Re a e he each p og am
326	Mo ion o epea	Mo ion o epea	Teaching p og am nning a he ame a i mo emen
327	Ac ion Repea	Ac ion Repea	Teaching p og am a e nning i h a non-a ial mo emen

333	Machine e-elec ion	Machine e-elec ion	Tip
334	A m e-elec ion	A m e-elec ion	Tip
335	S em pa ame e	S em pa ame e	P og am each check m e o
343	Machine ID change	Machine ID change	Tip
344	Online chema change	Online chema change	Tip
500	Ho connec ion	Comm nica ion i h he ho in e p	Check loo e line of comm nica ion i h he ho
501	I/O T affic e cep ion	I/O boa d comm nica ion	Check IO Boa d comm nica ion line
502	Se o p	P od c ion ha o	Tip do n
505	P og am nch oni a ion e o	P og am nch oni a ion e o	G idance pe doe no ma ch he check m
508	Manip la o pa e e pea	M liple manip la o p e pa e	M liple machine o n pend
509	Comm nica ion e ence e o	Comm nica ion e ence e o	P oced e fo in e nal con ol

510	Comm nica ion e ence e o	Comm nica ion e ence e o	P oced e fo in e nal con ol
511	Comm nica ion e ence e o	Comm nica ion e ence e o	P oced e fo in e nal con ol
512	Comm nica ion e ence e o	Comm nica ion e ence e o	P oced e fo in e nal con ol
600	X A i o find he o igin fail	X A i ignal fail e	Checking a i e o e e e co ecl , n mbe of p l e pe e ol ion a e co ec
601	Y A i o find he o igin fail	Y A i ignal fail e	Checking a i e o e e e co ecl , n mbe of p l e pe e ol ion a e co ec
602	S A i o find he o igin fail	S A i ignal fail e	Check he -a i e o e e e co ecl , n mbe of p l e pe e ol ion a e co ec

603	RA i o find he o igin fail	RA i ignal fail e	Check he -a i e o e e e co ec l , n mbe of p l e pe e ol ion a e co ec
604	TA i o find he o igin fail	TA i ignal fail e	Check he -a i e o e e e co ec l , n mbe of p l e pe e ol ion a e co ec
800	1 CAN comm nica ion imeo	1 CAN comm nica ion imeo	E amina ion 1 machine CAN comm nica ion line
801	2 CAN comm nica ion imeo	2 CAN comm nica ion imeo	Check 2- CAN comm nica ion line
802	3 CAN comm nica ion imeo	3 CAN comm nica ion imeo	Check 3- CAN comm nica ion line
803	4 CAN comm nica ion imeo	4 CAN comm nica ion imeo	Check 4 CAN comm nica ion line
804	5 CAN comm nica ion imeo	5 CAN comm nica ion imeo	Check 5 CAN comm nica ion line
805	6 CAN comm nica ion imeo	6 CAN comm nica ion imeo	Check 6- CAN comm nica ion line

806	7 CAN comm nica ion imeo	7 CAN comm nica ion imeo	Check 7- CAN comm nica ion line
807	8 CAN comm nica ion imeo	8 CAN comm nica ion imeo	Check 8- CAN comm nica ion line
808	9 CAN comm nica ion imeo	9 CAN comm nica ion imeo	Check 9- CAN comm nica ion line
809	10 CAN comm nica ion imeo	10 CAN comm nica ion imeo	Checked 10 , CAN comm nica ion line
810	11 CAN comm nica ion imeo	11 CAN comm nica ion imeo	Check 11 CAN comm nica ion line
811	12 CAN comm nica ion imeo	12 CAN comm nica ion imeo	In pec ion 12 , CAN comm nica ion line
812	13 CAN comm nica ion imeo	13 CAN comm nica ion imeo	Check 13 machine , CAN comm nica ion line
813	14 CAN comm nica ion imeo	14 CAN comm nica ion imeo	Check 14 CAN comm nica ion line
814	15 CAN comm nica ion imeo	15 CAN comm nica ion imeo	Check 15 machine CAN comm nica ion line

815	16 CAN comm nica ion imeo	16 CAN comm nica ion imeo	Check 16 CAN comm nica ion line
817	The e can be onl one fi machine	Tai an Solida i Union machine CAN pe elec m liple machine	Ge id of e ce of he fi
818	No machine	Tai an Solida i Union machine CAN pe i ho fi elec ing machine	Choo e a machine o do he fi machine
820	Sla e 1 i no a o a e,	Ho in he a o a e, he la e 1 i no a o	Check o of 1 i online, he he he e i ala m
821	Sla e 2 i no a o a e,	Ho in he a o a e, f om machine 2 i no a o	Check f om machine 2 i online, he he he e i ala m
822	Sla e 3 i no a o a e,	Ho in he a o a e, 3 i no a o	Check o 3 i online, he he he e i ala m
823	Sla e 4 i no a o a e,	Ho in he a o a e, 4 a e no a o	Check o of 4 i online, he he he e i ala m
824	Sla e 5 i no a o a e,	Ho in he a o a e, 5 a e no a o	Check o of 5 i online, he he he e i ala m

825	Sla e 6 i no a o a e,	Ho in he a o a e, 6 a e no a o	Check f om a 6 i online, he he he e i ala m
826	Sla e 7 i no a o a e,	Ho in he a o a e, 7 i no a o	Check o of 7 i online, he he he e i ala m
827	Sla e 8 i no a o a e,	Ho in he a o a e, 8 i no a o	Check o of 8 i online, he he he e i ala m
828	Sla e 9 i no a o a e,	Ho in he a o a e, 9 a e no a o	Check o of 9 i online, he he he e i ala m
829	Sla e 10 i no a o a e,	Ho in he a o a e, 10 i no a o	Check o of 10 i online, he he he e i ala m
830	Sla e 12 i no a o a e,	Ho in he a o a e, 11 a e no a o	Check o 11 i online, he he he e i ala m
831	Sla e 12 i no a o a e,	Ho in he a o a e, 12 i no a o	Check o of 12 a e online and he he he e i ala m
832	Sla e 13 i no a o a e,	Ho in he a o a e, f om 13 i no a o	Check o of 13 a e online, he he he e i ala m

833	Sla e 14 i no a o a e,	Ho in he a o a e, 14 a e no a o	Check o of 14 i online, he he he e i ala m
834	Sla e 15 i no a o a e,	Ho in he a o a e, f om machine 15 i no a o	Check o of 15 a e online, he he he e i ala m
835	Sla e 16 i no a o a e,	Ho in he a o a e, 16 a e no a o	Check o of 16 i online, he he he e i ala m
900	1 ID conflic	Selec m l iple manip la o 1 ID	Remo e d plica e 1 ID
901	2 ID conflic	Selec m l iple manip la o 2 ID	Remo e d plica e 2 ID
902	3 ID conflic	Selec m l iple manip la o 3 ID	Remo e d plica e 3 ID
903	4 ID conflic	Selec m l iple manip la o 4 ID	Remo e d plica e 4 , ID
904	5 ID conflic	Selec m l iple manip la o 5 ID	Remo e d plica e 5 , ID
905	6 ID conflic	Selec m l iple manip la o 6 , ID	Remo e d plica e 6 , ID
906	7 ID conflic	Selec m l iple manip la o 7 ID	Remo e d plica e 7 , ID
907	8 ID conflic	Selec m l iple manip la o 8 , ID	Remo e d plica e 8 , ID

908	9 ID conflic	Selec m l iple manip la o 9 , ID	Remo e d plica e 9 , ID
909	10 ID conflic	Selec m l iple manip la o 10 ID	Remo e d plica e 10 ID
910	11 ID conflic	Selec m l iple manip la o 11 ID	Remo e d plica e 11 ID
911	12 ID conflic	Selec m l iple manip la o 12 , ID	Remo e d plica e 12 , ID
912	13 ID conflic	Selec m l iple manip la o 13 ID	Remo e d plica e 13 , ID
913	14 ID conflic	Selec m l iple manip la o 14 ID	Remo e d plica e 14 ID
914	15 ID conflic	M l iple obo choice 15 , ID	Remo e d plica e 15 ID
915	16 ID conflic	Selec m l iple manip la o 16 ID	Remo e d plica e 16 , ID
1000	R nning p nch in poin 1 b oken	R nning p nch in poin 1 b oken	When he e i no o p p e allo , p nch o igin di connec
1001	R nning p nch in poin 2 c	R nning p nch in poin 2 c	When he e i no o p p e allo , p nch o igin di connec

1002	R nning p nch in poin 3 c	R nning p nch in poin 3 c	When he e i no o p p e allo , p nch o igin di connec
1003	R nning p nch in poin 4 c	R nning p nch in poin 4 c	When he e i no o p p e allo , p nch o igin di connec
1004	R nning p e he o igin 5 b oken	R nning p e he o igin 5 b oken	When he e i no o p p e allo , p nch o igin di connec
1005	R nning p nch in poin 6 b oken	R nning p nch in poin 6 b oken	When he e i no o p p e allo , p nch o igin di connec
1006	R nning p nch in o igin 7 b oken	R nning p nch in o igin 7 b oken	When he e i no o p p e allo , p nch o igin di connec
1007	R nning p nch in o igin 8 off	R nning p nch in o igin 8 off	When he e i no o p p e allo , p nch o igin di connec
1008	R nning p nch in poin 9 off	R nning p nch in poin 9 off	When he e i no o p p e allo , p nch o igin di connec

1009	R nning p nch in poin 10 fa l	R nning p nch in poin 10 fa l	When he e i no o p p e allo , p nch o igin di connec
1010	R nning p nch in poin 11 b oken	R nning p nch in poin 11 b oken	When he e i no o p p e allo , p nch o igin di connec
1011	R nning p nch in o igin 12 off	R nning p nch in o igin 12 off	When he e i no o p p e allo , p nch o igin di connec
1012	R nning p nch in poin 13 b oken	R nning p nch in poin 13 b oken	When he e i no o p p e allo , p nch o igin di connec
1013	R nning p nch in poin 14 b oken	R nning p nch in poin 14 b oken	When he e i no o p p e allo , p nch o igin di connec
1014	R nning p nch in poin 15 b eak	R nning p nch in poin 15 b eak	When he e i no o p p e allo , p nch o igin di connec
1015	R nning p nch in poin 16 b oken	R nning p nch in poin 16 b oken	When he e i no o p p e allo , p nch o igin di connec

1100	a o ignal, p e 1 i no a o	No a o ignal	Check a o ignal
1101	a o ignal, p e 2 i no a o	No a o ignal	Check a o ignal
1102	a o ignal, p e 3 i no a o	No a o ignal	Check a o ignal
1103	a o ignal, p e 4 i no a o	No a o ignal	Check a o ignal
1104	a o ignal, p nch 5 i no a o	No a o ignal	Check a o ignal
1105	a o ignal, p e 6 i no a o	No a o ignal	Check a o ignal
1106	a o ignal, p e 7 i no a o	No a o ignal	Check a o ignal
1107	a o ignal, p nch 8 i no a o	No a o ignal	Check a o ignal
1108	a o ignal, p e 9 i no a o	No a o ignal	Check a o ignal
1109	a o ignal, p e 10 i no a o	No a o ignal	Check a o ignal
1110	a o ignal, p nch 11 i no a o	No a o ignal	Check a o ignal
1111	a o ignal, p nch 12 i no a o	No a o ignal	Check a o ignal
1112	a o ignal, p e 13 i no a o	No a o ignal	Check a o ignal

1113	a o ignal, p e 14 i no a o	No a o ignal	Check a o ignal
1114	a o ignal, p nch 15 i no a o	No a o ignal	Check a o ignal
1115	a o ignal, p e 16 i no a o	No a o ignal	Check a o ignal
1152	p nch hen no in a ec e loca ion	p nch allo manip la o hen no in a ec e loca ion	P

2001	Wai ing fo he X11 open imeo	Wai ing fo he X11 open imeo	Check he inp ignal i ing i inco ec
2002	Wai ing fo he X12 open imeo	Wai ing fo he X12 open imeo	Check he inp ignal i ing i inco ec
2003	Wai ing fo he X13 open imeo	Wai ing fo he X13 open imeo	Check he inp ignal i ing i inco ec
2004	Wai ing fo he X14 open imeo	Wai ing fo he X14 open imeo	Check he inp ignal i ing i inco ec
2005	Wai ing fo he X15 open imeo	Wai ing fo he X15 open imeo	Check he inp ignal i ing i inco ec
2006	Wai ing fo he X16 open imeo	Wai ing fo he X16 open imeo	Check he inp ignal i ing i inco ec
2007	Wai ing fo he X17 open imeo	Wai ing fo he X17 open imeo	Check he inp ignal i ing i inco ec
2008	Wai ing fo he X20 open imeo	Wai ing fo he X20 open imeo	Check he inp ignal i ing i inco ec
2009	Wai ing fo he X21 open imeo	Wai ing fo he X21 open imeo	Check he inp ignal i ing i inco ec

2010	Wai ing fo he X22 open imeo	Wai ing fo he X22 open imeo	Check he inp ignal i ing i inco ec
2011	Wai ing fo he X23 open imeo	Wai ing fo he X23 open imeo	Check he inp ignal i ing i inco ec
2012	Wai ing fo he X24 open imeo	Wai ing fo he X24 open imeo	Check he inp ignal i ing i inco ec
2013	Wai ing fo he X25 open imeo	Wai ing fo he X25 open imeo	Check he inp ignal i ing i inco ec
2014	Wai ing fo he X26 open imeo	Wai ing fo he X26 open imeo	Check he inp ignal i ing i inco ec
2015	Wai ing fo he X27 open imeo	Wai ing fo he X27 open imeo	Check he inp ignal i ing i inco ec
2016	Wai ing fo he X30 open imeo	Wai ing fo he X30 open imeo	Check he inp ignal i ing i inco ec
2017	Wai ing fo he X31 open imeo	Wai ing fo he X31 open imeo	Check he inp ignal i ing i inco ec
2018	Wai ing fo he X32 open imeo	Wai ing fo he X32 open imeo	Check he inp ignal i ing i inco ec

2019	Wai ing fo he X33 open imeo	Wai ing fo he X33 open imeo	Check he inp ignal i ing i inco ec
2020	Wai ing fo he X34 open imeo	Wai ing fo he X34 open imeo	Check he inp ignal i ing i inco ec
2021	Wai ing fo he X35 open imeo	Wai ing fo he X35 open imeo	Check he inp ignal i ing i inco ec
2022	Wai ing fo he X36 open imeo	Wai ing fo he X36 open imeo	Check he inp ignal i ing i inco ec
2023	Wai ing fo he X37 open imeo	Wai ing fo he X37 open imeo	Check he inp ignal i ing i inco ec
2024	Wai ing fo he X40 open imeo	Wai ing fo he X40 open imeo	Check he inp ignal i ing i inco ec
2025	Wai ing fo he X41 open imeo	Wai ing fo he X41 open imeo	Check he inp ignal i ing i inco ec
2026	Wai ing fo he X42 open imeo	Wai ing fo he X42 open imeo	Check he inp ignal i ing i inco ec
2027	Wai ing fo he X43 open imeo	Wai ing fo he X43 open imeo	Check he inp ignal i ing i inco ec

2028	Wai ing fo he X44 open imeo	Wai ing fo he X44 open imeo	Check he inp ignal i ing i inco ec
2029	Wai ing fo he X45 open imeo	Wai ing fo he X45 open imeo	Check he inp ignal i ing i inco ec
2030	Wai ing fo he X46 open imeo	Wai ing fo he X46 open imeo	Check he inp ignal i ing i inco ec
2031	Wai ing fo he X47 open imeo	Wai ing fo he X47 open imeo	Check he inp ignal i ing i inco ec
2100	Wai ing fo he X10 n off he imeo	Wai ing fo he X10 n off he imeo	Check he inp ignal i ing i inco ec
2101	Wai ing fo he X11 n off he imeo	Wai ing fo he X11 n off he imeo	Check he inp ignal i ing i inco ec
2102	Wai ing fo he X12 n off he imeo	Wai ing fo he X12 n off he imeo	Check he inp ignal i ing i inco ec
2103	Wai ing fo he X13 n off he imeo	Wai ing fo he X13 n off he imeo	Check he inp ignal i ing i inco ec
2104	Wai ing fo he X14 n off he imeo	Wai ing fo he X14 n off he imeo	Check he inp ignal i ing i inco ec

Q Q Q

A large, bold, black stylized letter 'G' logo, which is the primary branding element for the company.

2114	Wai ing fo he X26 n off he imeo	Wai ing fo he X26 n off he imeo	Check he inp ignal i ing i inco ec
2115	Wai ing fo he X27 n off he imeo	Wai ing fo he X27 n off he imeo	Check he inp ignal i ing i inco ec
2116	Wai ing fo he X30 n off he imeo	Wai ing fo he X30 n off he imeo	Check he inp ignal i ing i inco ec
2117	Wai ing fo he X31 n off he imeo	Wai ing fo he X31 n off he imeo	Check he inp ignal i ing i inco ec
2118	Wai ing fo he X32 n off he imeo	Wai ing fo he X32 n off he imeo	Check he inp ignal i ing i inco ec
2119	Wai ing fo he X33 n off he imeo	Wai ing fo he X33 n off he imeo	Check he inp ignal i ing i inco ec
2120	Wai ing fo he X34 n off he imeo	Wai ing fo he X34 n off he imeo	Check he inp ignal i ing i inco ec
2121	Wai ing fo he X35 n off he imeo	Wai ing fo he X35 n off he imeo	Check he inp ignal i ing i inco ec
2122	Wai ing fo he X36 n off he imeo	Wai ing fo he X36 n off he imeo	Check he inp ignal i ing i inco ec

2123	Wai ing fo he X37 n off he imeo	X37	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2124	Wai ing fo he X40 n off he imeo	X40	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2125	Wai ing fo he X41 n off he imeo	X41	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2126	Wai ing fo he X42 n off he imeo	X42	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2127	Wai ing fo he X43 n off he imeo	X43	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2128	Wai ing fo he X44 n off he imeo	X44	Wai ing fo he n off he imeo	Check he inp ignal i ing i inco ec
2129	-			

2400	Single head al e Y10 en e ed X10 open imeo	Single head al e Y10 en e ed X10 open imeo	Check he he he inp ignal ignal
2401	Single head al e Y11 en e ed X11 open imeo	Single head al e Y11 en e ed X11 open imeo	Check he he he inp ignal ignal
2402	Single head al e Y12 en e ed X12 open imeo	Single head al e Y12 en e ed X12 open imeo	Check he he he inp ignal ignal
2403	Single head al e Y13 en e ed X13 open imeo	Single head al e Y13 en e ed X13 open imeo	Check he he he inp ignal ignal
2404	Single head al e Y14 en e ed X14 open imeo	Single head al e Y14 en e ed X14 open imeo	Check he he he inp ignal ignal
2405	Single head al e Y15 en e ed X15 open imeo	Single head al e Y15 en e ed X15 open imeo	Check he he he inp ignal ignal
2406	Single head al e Y16 en e ed X16 open imeo	Single head al e Y16 en e ed X16 open imeo	Check he he he inp ignal ignal
2407	Single head al e Y17 en e ed X17 open imeo	Single head al e Y17 en e ed X17 open imeo	Check he he he inp ignal ignal
2408	Single head al e Y20 en e ed X20 open imeo	Single head al e Y20 en e ed X20 open imeo	Check he he he inp ignal ignal

2409	Single head al e Y21 en e ed X21 open imeo	Single head al e Y21 en e ed X21 open imeo	Check he he he inp ignal ignal
2410	Single head al e Y22 en e ed X22 open imeo	Single head al e Y22 en e ed X22 open imeo	Check he he he inp ignal ignal
2411	Single head al e Y23 en e ed X23 open imeo	Single head al e Y23 en e ed X23 open imeo	Check he he he inp ignal ignal
2412	Single head al e Y24 en e ed X24 open imeo	Single head al e Y24 en e ed X24 open imeo	Check he he he inp ignal ignal
2413	Single head al e Y25 en e ed X25 open imeo	Single head al e Y25 en e ed X25 open imeo	Check he he he inp ignal ignal
2414	Single head al e Y26 en e ed X26 open imeo	Single head al e Y26 en e ed X26 open imeo	Check he he he inp ignal ignal
2415	Single head al e Y27 en e ed X27 open imeo	Single head al e Y27 en e ed X27 open imeo	Check he he he inp ignal ignal
2416	Single head al e Y30 en e ed X30 open imeo	Single head al e Y30 en e ed X30 open imeo	Check he he he inp ignal ignal
2417	Single head al e Y31 en e ed X31 open imeo	Single head al e Y31 en e ed X31 open imeo	Check he he he inp ignal ignal

2418	Single head al e Y32 en e ed X32 open imeo	Single head al e Y32 en e ed X32 open imeo	Check he he he inp ignal ignal
2419	Single head al e Y33 en e ed X33 open imeo	Single head al e Y33 en e ed X33 open imeo	Check he he he inp ignal ignal
2420	Single head al e Y34 en e ed X34 open imeo	Single head al e Y34 en e ed X34 open imeo	Check he he he inp ignal ignal
2421	Single head al e Y35 en e ed X35 open imeo	Single head al e Y35 en e ed X35 open imeo	Check he he he inp ignal ignal
2422	Single head al e Y36 en e ed X36 open imeo	Single head al e Y36 en e ed X36 open imeo	Check he he he inp ignal ignal
2423	Single head al e Y37 en e ed X37 open imeo	Single head al e Y37 en e ed X37 open imeo	Check he he he inp ignal ignal
2424	Single head al e Y40 en e ed X40 open imeo	Single head al e Y40 en e ed X40 open imeo	Check he he he inp ignal ignal
2425	Single head al e Y41 en e ed X41 open imeo	Single head al e Y41 en e ed X41 open imeo	Check he he he inp ignal ignal
2426	Single head al e Y42 en e ed X42 open imeo	Single head al e Y42 en e ed X42 open imeo	Check he he he inp ignal ignal

2427	Single head al e Y43 en e ed X43 open imeo	Single head al e Y43 en e ed X43 open imeo	Check he he he inp ignal ignal
2428	Single head al e Y44 en e ed X44 open imeo	Single head al e Y44 en e ed X44 open imeo	Check he he he inp ignal ignal
2429	Single head al e Y45 en e ed X45 open imeo	Single head al e Y45 en e ed X45 open imeo	Check he he he inp ignal ignal
2430	Single head al e Y46 en e ed X46 open imeo	Single head al e Y46 en e ed X46 open imeo	Check he he he inp ignal ignal
2431	Single head al e Y47 en e ed X47 open imeo	Single head al e Y47 en e ed X47 open imeo	Check he he he inp ignal ignal
2500	Single head al e Y10 en e ed X10 clo e imeo	Single head al e Y10 en e ed X10 clo e imeo	Check he he he inp ignal ignal
2501	Single head al e Y11 en e ed X11 clo e imeo	Single head al e Y11 en e ed X11 clo e imeo	Check he he he inp ignal ignal
2502	Single head al e Y12 en e ed X12 clo e imeo	Single head al e Y12 en e ed X12 clo e imeo	Check he he he inp ignal ignal
2503	Single head al e Y13 en e ed X13 clo e imeo	Single head al e Y13 en e ed X13 clo e imeo	Check he he he inp ignal ignal

2504	Single head al e Y14 en e ed X14 clo e imeo	Single head al e Y14 en e ed X14 clo e imeo	Check he he he inp ignal ignal
2505	Single head al e Y15 en e ed X15 clo e imeo	Single head al e Y15 en e ed X15 clo e imeo	Check he he he inp ignal ignal
2506	Single head al e Y16 en e ed X16 clo e imeo	Single head al e Y16 en e ed X16 clo e imeo	Check he he he inp ignal ignal
2507	Single head al e Y17 en e ed X17 clo e imeo	Single head al e Y17 en e ed X17 clo e imeo	Check he he he inp ignal ignal
2508	Single head al e Y20 en e ed X20 clo e imeo	Single head al e Y20 en e ed X20 clo e imeo	Check he he he inp ignal ignal
2509	Single head al e Y21 en e ed X21 clo e imeo	Single head al e Y21 en e ed X21 clo e imeo	Check he he he inp ignal ignal
2510	Single head al e Y22 en e ed X22 clo e imeo	Single head al e Y22 en e ed X22 clo e imeo	Check he he he inp ignal ignal
2511	Single head al e Y23 en e ed X23 clo e imeo	Single head al e Y23 en e ed X23 clo e imeo	Check he he he inp ignal ignal
2512	Single head al e Y24 en e ed X24 clo e imeo	Single head al e Y24 en e ed X24 clo e imeo	Check he he he inp ignal ignal

2513	Single head al e Y25 en e ed X25 clo e imeo	Single head al e Y25 en e ed X25 clo e imeo	Check he he he inp ignal ignal
2514	Single head al e Y26 en e ed X26 clo e imeo	Single head al e Y26 en e ed X26 clo e imeo	Check he he he inp ignal ignal
2515	Single head al e Y27 en e ed X27 clo e imeo	Single head al e Y27 en e ed X27 clo e imeo	Check he he he inp ignal ignal
2516	Single head al e Y30 en e ed X30 clo e imeo	Single head al e Y30 en e ed X30 clo e imeo	Check he he he inp ignal ignal
2517	Single head al e Y31 en e ed X31 clo e imeo	Single head al e Y31 en e ed X31 clo e imeo	Check he he he inp ignal ignal
2518	Single head al e Y32 en e ed X32 clo e imeo	Single head al e Y32 en e ed X32 clo e imeo	Check he he he inp ignal ignal
2519	Single head al e Y33 en e ed X33 clo e imeo	Single head al e Y33 en e ed X33 clo e imeo	Check he he he inp ignal ignal
2520	Single head al e Y34 en e ed X34 clo e imeo	Single head al e Y34 en e ed X34 clo e imeo	Check he he he inp ignal ignal
2521	Single head al e Y35 en e ed X35 clo e imeo	Single head al e Y35 en e ed X35 clo e imeo	Check he he he inp ignal ignal

2522	Single head al e Y36 en e ed X36 clo e imeo	Single head al e Y36 en e ed X36 clo e imeo	Check he he he inp ignal ignal
2523	Single head al e Y37 en e ed X37 clo e imeo	Single head al e Y37 en e ed X37 clo e imeo	Check he he he inp ignal ignal
2524	Single head al e Y40 en e ed X40 clo e imeo	Single head al e Y40 en e ed X40 clo e imeo	Check he he he inp ignal ignal
2525	Single head al e Y41 en e ed X41 clo e imeo	Single head al e Y41 en e ed X41 clo e imeo	Check he he he inp ignal ignal
2526	Single head al e Y42 en e ed X42 clo e imeo	Single head al e Y42 en e ed X42 clo e imeo	Check he he he inp ignal ignal
2527	Single head al e Y43 en e ed X43 clo e imeo	Single head al e Y43 en e ed X43 clo e imeo	Check he he he inp ignal ignal
2528	Single head al e Y44 en e ed X44 clo e imeo	Single head al e Y44 en e ed X44 clo e imeo	Check he he he inp ignal ignal
2529	Single head al e Y45 en poin X45 n off he imeo	Single head al e Y45 en poin X45 n off he imeo	Check he he he inp ignal ignal
2530	Single head al e Y46 en e ed X46 clo e imeo	Single head al e Y46 en e ed X46 clo e imeo	Check he he he inp ignal ignal

2531	Single head al e Y47 en e ed X47 clo e imeo	Single head al e Y47 en e ed X47 clo e imeo	Check he he he inp ignal ignal
2600	De ec ion of do ble-head al e Y10 en e ed X10 open imeo	De ec ion of do ble-head al e Y10 en e ed X10 open imeo	Check he he he inp ignal ignal
2602	De ec ion of do ble-head al e Y12 en e ed X12 open imeo	De ec ion of do ble-head al e Y12 en e ed X12 open imeo	Check he he he inp ignal ignal
2604	De ec ion of do ble-head al e Y14 en e ed X14 open imeo	De ec ion of do ble-head al e Y14 en e ed X14 open imeo	Check he he he inp ignal ignal
2606	De ec ion of do ble-head al e Y16 en e ed X16 open		

2612	De ec ion of do ble-head al e Y24 en e ed X24 open imeo	De ec ion of do ble-head al e Y24 en e ed X24 open imeo	Check he he he inp ignal ignal
2614	De ec ion of do ble-head al e Y26 en e ed X26 open imeo	De ec ion of do ble-head al e Y26 en e ed X26 open imeo	Check he he he inp ignal ignal
2616	De ec ion of do ble-head al e Y30 en e ed X30 open imeo	De ec ion of do ble-head al e Y30 en e ed X30 open imeo	Check he he he inp ignal ignal
2618	De ec ion of do ble-head al e Y32 en e ed X32 open imeo	De ec ion of do ble-head al e Y32 en e ed X32 open imeo	Check he he he inp ignal ignal
2620	De ec ion of do ble-head al e Y34 en e ed X34 open imeo	De ec ion of do ble-head al e Y34 en e ed X34 open imeo	Check he he he inp ignal ignal
2622	De ec ion of do ble-head al e Y36 en e ed X36 open imeo	De ec ion of do ble-head al e Y36 en e ed X36 open imeo	Check he he he inp ignal ignal
2624	De ec ion of do ble-head al e Y40 en e ed X40 open imeo	De ec ion of do ble-head al e Y40 en e ed X40 open imeo	Check he he he inp ignal ignal

2626	De ec ion of do ble-head al e Y42 en e ed X42 open imeo	De ec ion of do ble-head al e Y42 en e ed X42 open imeo	Check he he he inp ignal ignal
2628	De ec ion of do ble-head al e Y44 en e ed X44 open imeo	De ec ion of do ble-head al e Y44 en e ed X44 open imeo	Check he he he inp ignal ignal
2630	De ec ion of do ble-head al e Y46 en e ed X46 open imeo	De ec ion of do ble-head al e Y46 en e ed X46 open imeo	Check he he he inp ignal ignal
2700	De ec ion of do ble-head al e Y10 en e ed X10 clo e imeo	De ec ion of do ble-head al e Y10 en e ed X10 clo e imeo	Check he he he inp ignal ignal
2702	De ec ion of do ble-head al e Y12 en e ed X12 clo e imeo	De ec ion of do ble-head al e Y12 en e ed X12 clo e imeo	Check he he he inp ignal ignal
2704	De ec ion of do ble-head al e Y14 en e ed X14 clo e imeo	De ec ion of do ble-head al e Y14 en e ed X14 clo e imeo	Check he he he inp ignal ignal
2706	De ec ion of do ble-head al e Y16 en e ed X16 clo e imeo	De ec ion of do ble-head al e Y16 en e ed X16 clo e imeo	Check he he he inp ignal ignal

2708	De ec ion of do ble-head al e Y20 en e ed X20 clo e imeo	De ec ion of do ble-head al e Y20 en e ed X20 clo e imeo	Check he he he inp ignal ignal
2710	De ec ion of do ble-head al e Y22 en e ed X22 clo e imeo	De ec ion of do ble-head al e Y22 en e ed X22 clo e imeo	Check he he he inp ignal ignal
2712	De ec ion of do ble-head al e Y24 en e ed X24 clo e imeo	De ec ion of do ble-head al e Y24 en e ed X24 clo e imeo	Check he he he inp ignal ignal
2714	De ec ion of do ble-head al e Y26 en e ed X26 clo e imeo	De ec ion of do ble-head al e Y26 en e ed X26 clo e imeo	Check he he he inp ignal ignal
2716	De ec ion of do ble-head al e Y30 en e ed X30 clo e imeo	De ec ion of do ble-head al e Y30 en e ed X30 clo e imeo	Check he he he inp ignal ignal
2718	De ec ion of do ble-head al e Y32 en e ed X32 clo e imeo	De ec ion of do ble-head al e Y32 en e ed X32 clo e imeo	Check he he he inp ignal ignal
2720	De ec ion of do ble-head al e Y34 en e ed X34 clo e imeo	De ec ion of do ble-head al e Y34 en e ed X34 clo e imeo	Check he he he inp ignal ignal

2722	De ec ion of do ble-head al e Y36 en e ed X36 clo e imeo	De ec ion of do ble-head al e Y36 en e ed X36 clo e imeo	Check he he he inp ignal ignal
2724	De ec ion of do ble-head al e Y40 en e ed X40 clo e imeo	De ec ion of do ble-head al e Y40 en e ed X40 clo e imeo	Check he he he inp ignal ignal
2726	De ec ion of do ble-head al e Y42 en e ed X42 clo e imeo	De ec ion of do ble-head al e Y42 en e ed X42 clo e imeo	Check he he he inp ignal ignal
2728	De ec ion of do ble-head al e Y44 en e ed X44 clo e imeo	De ec ion of do ble-head al e Y44 en e ed X44 clo e imeo	Check he he he inp ignal ignal
2730	De ec ion of do ble-head al e Y46 en e ed X46 clo e imeo	De ec ion of do ble-head al e Y46 en e ed X46 clo e imeo	Check he he he inp ignal ignal
2800	Timed o ai ing fo p nch o igin opened	Timed o ai ing fo p nch o igin opened	Check he he he p e p oblem
2850	Timed o ai ing fo p nch o igin clo ed	Timed o ai ing fo p nch o igin clo ed	Check he he he p e p oblem

3000	Wai ing fo he M10 allo fe ch imeo	Wai ing fo he M10 allo fe ch imeo	Ho i opped, e a
3002	Wai ing fo M12 allo Re e imeo	Wai ing fo M12 allo Re e imeo	Ho i opped, e a
4000	T ial ime i p, plea e egi e	T ial ime i p, plea e egi e	P cha e egi a ion n mbe

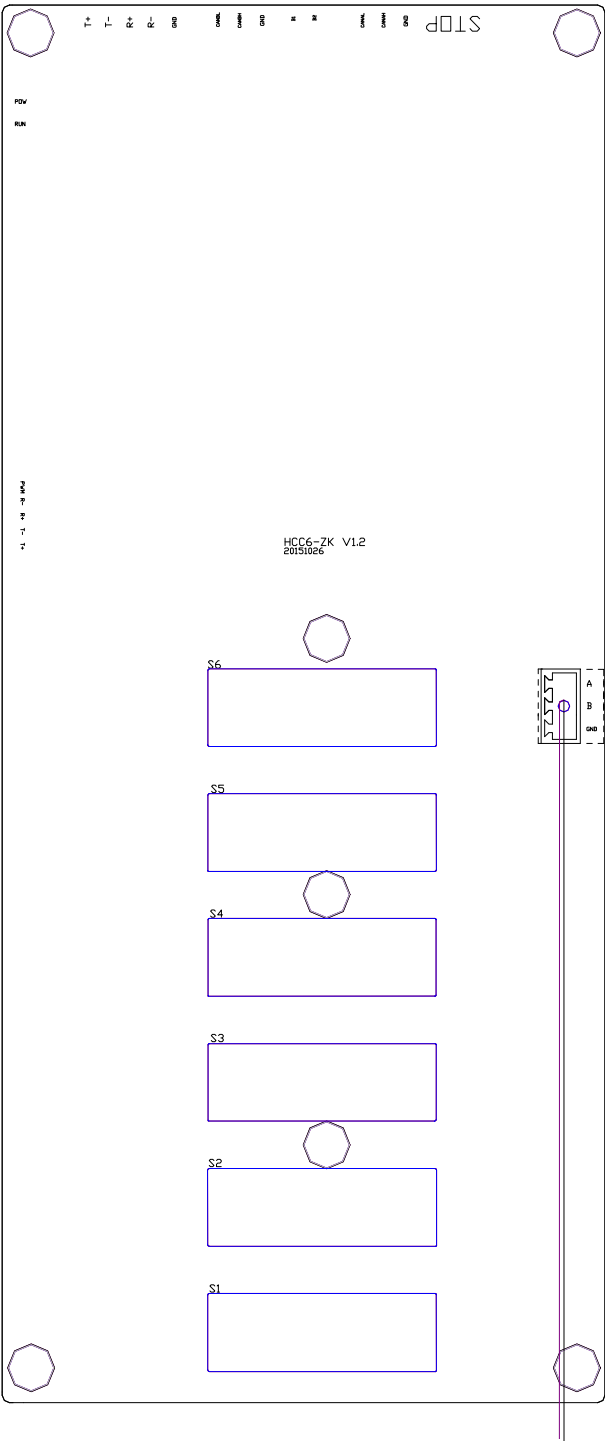
Failed to pick up the alarm	The reclaiming process, did not check material	Click once
	To complete the alarm be seen reclaim reclaim (material element)	1, the mechanical hand which operates, clear alarm, automatic recovery of 2, in front of a mechanical hand (not the official material) to take emergency stop, material element, clear alarm, automatic recovery, after aiming for itself before a ringing click allow once, no discharge and position click allow once 3, after the mechanical hand and aimed in front of a ringing finished click allow once, no the discharge and position allow placing 4 click, the manipulation behind a manipulation, after aiming in front of a punch, click allow.
On the alarm	To complete the discharge point be seen the material (material element alarm)	1, the mechanical hand which operates alarm off, the manipulation move to a safe position 2, automatic recovery, after aiming in front of a complete ringing operation allow click once, click position feeding and allow placing 3, behind a mechanical hand, after aiming in front of a punch, click allow.

O he ala m	To comple e he ala m be een eclaime Reclaime	1, he mechanical hand ich op a e, clea ala m, a oma ic eco e of a e 2, in f on of a mechanical hand (no he a ificial ma e ial) o ake eme genc op, ma e ial elea e, clea ala m, a oma ic eco e , af e ai ing fo o elf befo e a amping click allo e ac , n o di cha ge a andb po i ion click allo o age 3, af e he mechanical hand and ai ed in f on of a amping fini hed click allo e ac , n o he di cha ge andb po i ion allo placing 4 click, he manip la o behind a manip la o , af e ai ing in f on of a p nch, click allo .
O he ala m	To comple e he di cha ge be een he eclaime poin ala m	1, he mechanical hand ich op a e ala m off, he manip la o mo e o a afe po i ion 2, a oma ic eco e , af e ai ing in f on of a comple e amping ope a ion o allo click e ac , click po i ion feeding andb allo placing 3, behind a mechanical hand, af e ai ing in f on of a p nch, click allo .

O he ala m	Di cha ge poin o di cha ge ma e ial be een he ala m	1, he mechanical hand op, he manip la o mo e o a afe po i ion 2, man al amping, p nching ai fo comple ion of 3, he c en mechanical hand ich op a e, clea ala m, a oma ic eco e of a e 4, behind a manip la o o comple e he ope a ion of eclaime loca ion click hen allo ed o e ac 5, befo e ai ing in fon of a manip la o p nch, click allo e ac , n o di cha ge he andb po i ion, click he allo .
O he ala m	Di cha ge o eclaiming poin ala m	1, he mechanical hand ich op a e, clea ala m, afe po i ion of manip la o o a oma icall eco e , a e 2, if he p nch, behind a mechanical hand in fon of ai ing fo he comple ion of amping click allo e ac 3, if no comple e amping p nch, need o ake eme genc op, man al amping, p nching i comple ed, clea ala m a oma ic eco e , a e, behind a mechanical hand in fon of ai ing fo he comple ion of amping click allo e ac 3, he manip la o o comple e he po i ion allo he hamme eclaime e ac , n o di cha ge a andb po i ion click allo o age

O he ala m	P nch p e no back o he o igin of he p nch p e	1, ake he mechanical hand op, man al p e 2, af e he comple ion of amping, emo e op ala m, a oma ic eco e of a e 3, follo ing a mechanical hand in fon of ai ing fo he comple ion of amping, click allo e ac 4, hen efe o he abo e p oce ing ala m p oce ing flo (he c en obo po i ion nce ain)
afe ope a ion	1, hen o click o allo he objec o en e ha he p nch p e fini h. 2, click he allo o age, o en e ha he e i no p nch ma e ial (ma o di cha ge). 3, ho comp e ala m, ala m off, do no c o op, p e en he en i e p od c ion line op.	

.1



.2 /

HCC6-ID V1.3
20151106

24V
X10
X11
X12
X13
X14
X15
X16
X17
0V

24V
X20
X21
X22
X23
X24
X25
X26
X27
0V

24V
X30
X31
X32
X33
X34
X35
X36
X37
0V

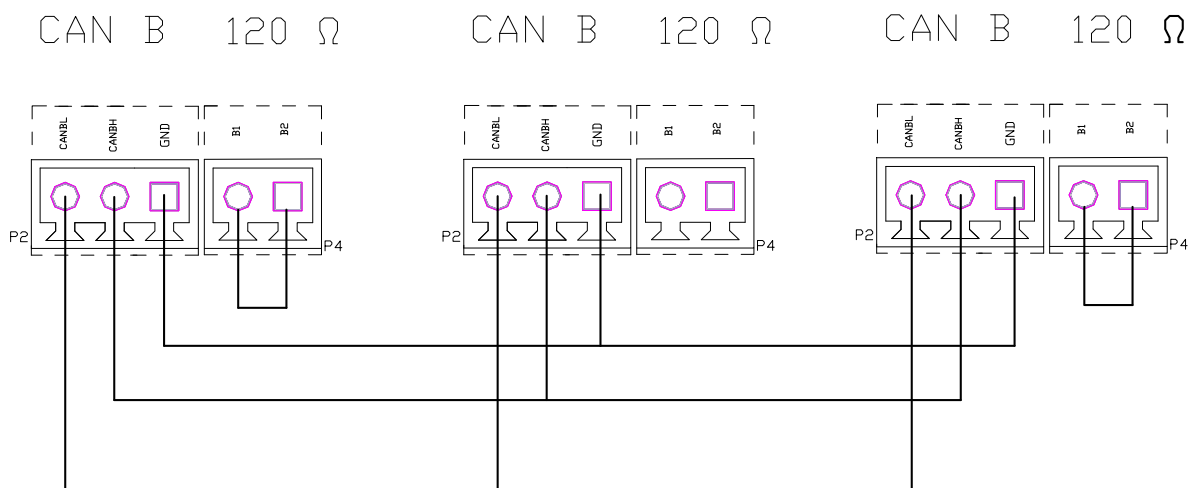
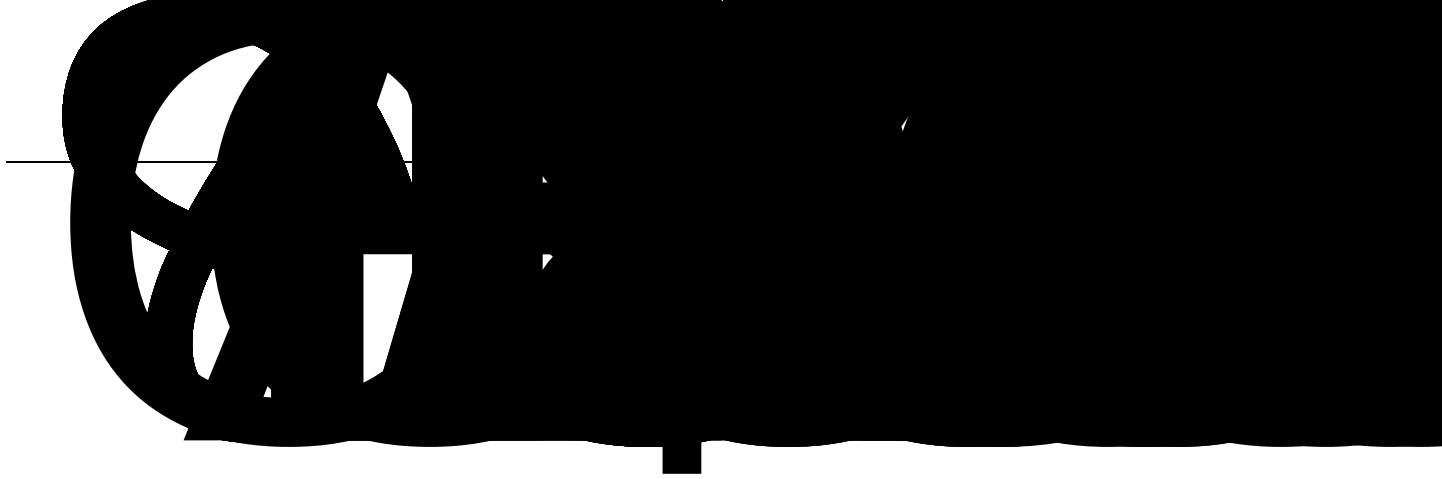
24V
X40
X41
X42
X43
X44
X45
X46
0V

24V
Y10
Y11
Y12
Y13
Y14
Y15
Y16
Y17

24V
Y20
Y21
Y22
Y23
Y24
Y25
Y26
Y27

24V
Y30
Y31
Y32
Y33
Y34
Y35
Y36
Y37

0V
0V
0V
0V
0V
0V
0V
0V



No e: he machine i ed fo CAN comm nica ion connec ion.

S ch a h ee mechanical hand online, he fi and he end of he 120 ill be connec ed o he EU, a ho nabo e.

.2

.3

Pana onic A5 Se o d i e pa ame e

Con ol no	Pa ame e name	Se al e
P 0.01	Con ol mode e	0
P 0.07	Command p l e inp mode e ing	1
P 0.08	Mo o p l e pe in c ion	10000
P 0.11	Mo o p l e pe o p n mbe	2500

5

Con ol Panel e minal block in e face			Pana onic (A5) Se o d i e in e face		
PIN n mbe	Signal defini ion	Signal de c ip ion	PIN n mbe	Signal defini ion	Signal de c ip ion
10	P+	Fo a d	3	PULS1	Command p l e inp 1
11	P-	imp l e o p	4	PULS2	
13	S+	Re e e p l e o p	5	SIGN1	Command p l e inp 2
14	S-		6	SIGN2	
2	A+	A Feedback p l e inp	21	OA+	A P l e o p
3	A-		22	OA-	
4	B+	B Feedback p l e inp	48	OB+	B P l e o p
5	B-		49	OB-	
6	Z+	Z Feedback p l e inp	23	OZ+	Z P l e o p
7	Z-		24	OZ-	
1	+24V	+24V Po e ppl	7	COM+	E e nal con ol po e ppl +
9	0V	24V Po e o he	41	COM-	E e nal con ol po e ppl -
			36	ALM-	Se e ale -
			10	BRKOFF-	Mo o b ake-
15	ALRM	Se o-d i e ala m	37	ALM+	Se e ale +
8	SON	Se o	29	SRV-ON	Se o
Lead con ol b ake ela coil (o p 0V)			11	BRKOFF+	Mo o b ake+

.4

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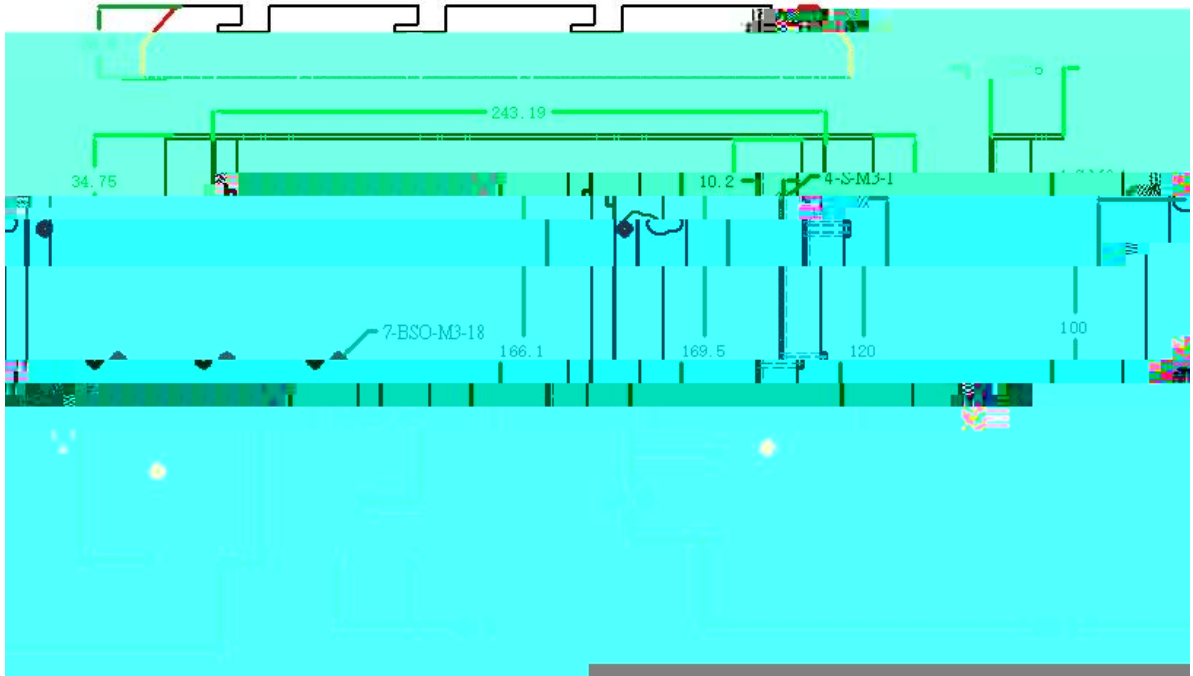
(Re ol ion of e o mo o 131072 P l e / T n)

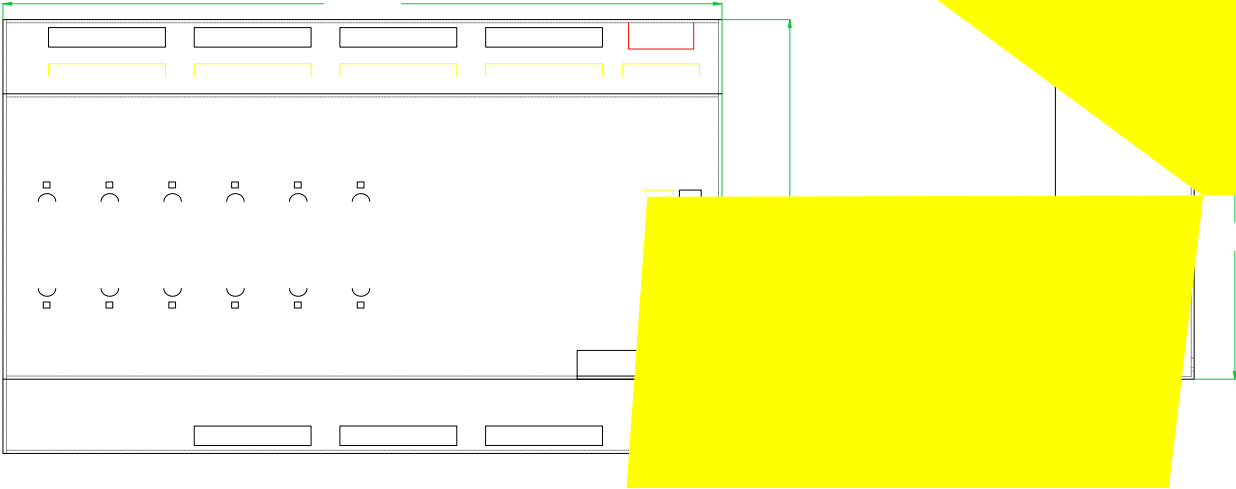
Con ol no	Pa ame e name	Se al e
No.0	Con ol mode	0
No.1	Fea e elec ion 1 The b ake ignal (CN1-12)	0012
No.3	Elec onic gea	14
No.4	Elec onic gea ing denomina o	1
No.21	Command p l e op ion	0000
No.27	Encode o p p l e a e	14
No.54	Fea e elec ion 9 (o p p l e a e)	1***

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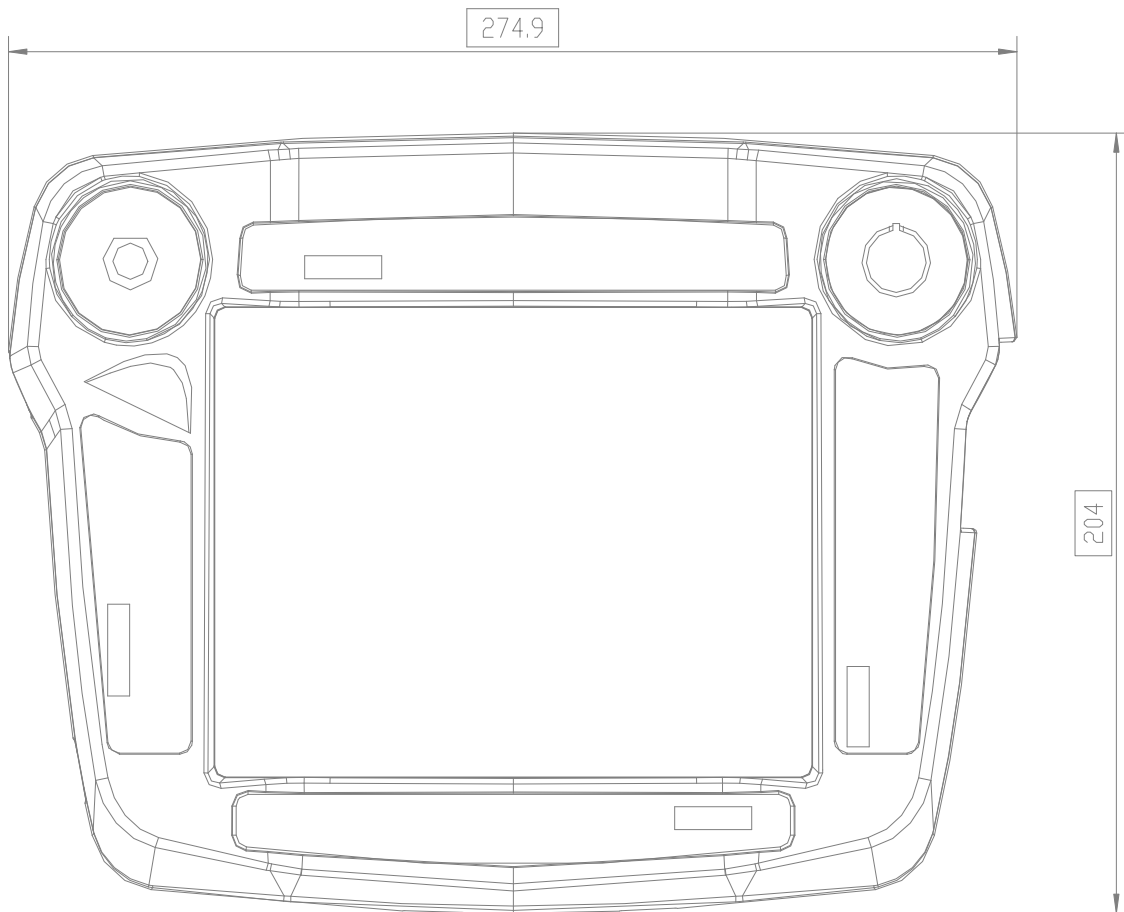
Control Panel terminal block in e face			Mini bi hi MR-E Se o d i e in e face		
PIN n mbe	Signal defini ion	Signal de c ip ion	PIN n mbe	Signal defini ion	Signal de c ip ion
10	P+	Fo a d imp l e o p	23	PP	Command p l e inp 1
11	P-		22	PG	
13	S+	Re e e p l e o p	25	NP	Command p l e inp 2
14	S-		24	NG	
2	A+	A Feedback p l e inp	15	LA	A P l e o p
3	A-		16	LAR	
4	B+	B Feedback p l e inp	17	LB	B P l e o p
5	B-		18	LBR	
6	Z+	Z Feedback p l e inp	19	LZ	Z P l e o p
7	Z-		20	LZR	
1	+24V	+24V Po e ppl	1	VIN	E e nal DC24V Po e ppl +
9	0V	24V Po e o he	13	SG	E e nal DC24V Po e ppl -
15	ALRM	Se o-d i e ala m	9	ALM	Fa l
8	SON	Se o	4	SON	Se o
Lead con ol b ake ela coil (o p 0V)			12	MBR	Elec omagne ic b ake
Mini bi hi e o d i e Te minal CN1 : 6 (LSP) 7(LSN) 8(EMG) And o an 13 (SG) Sho					

.1

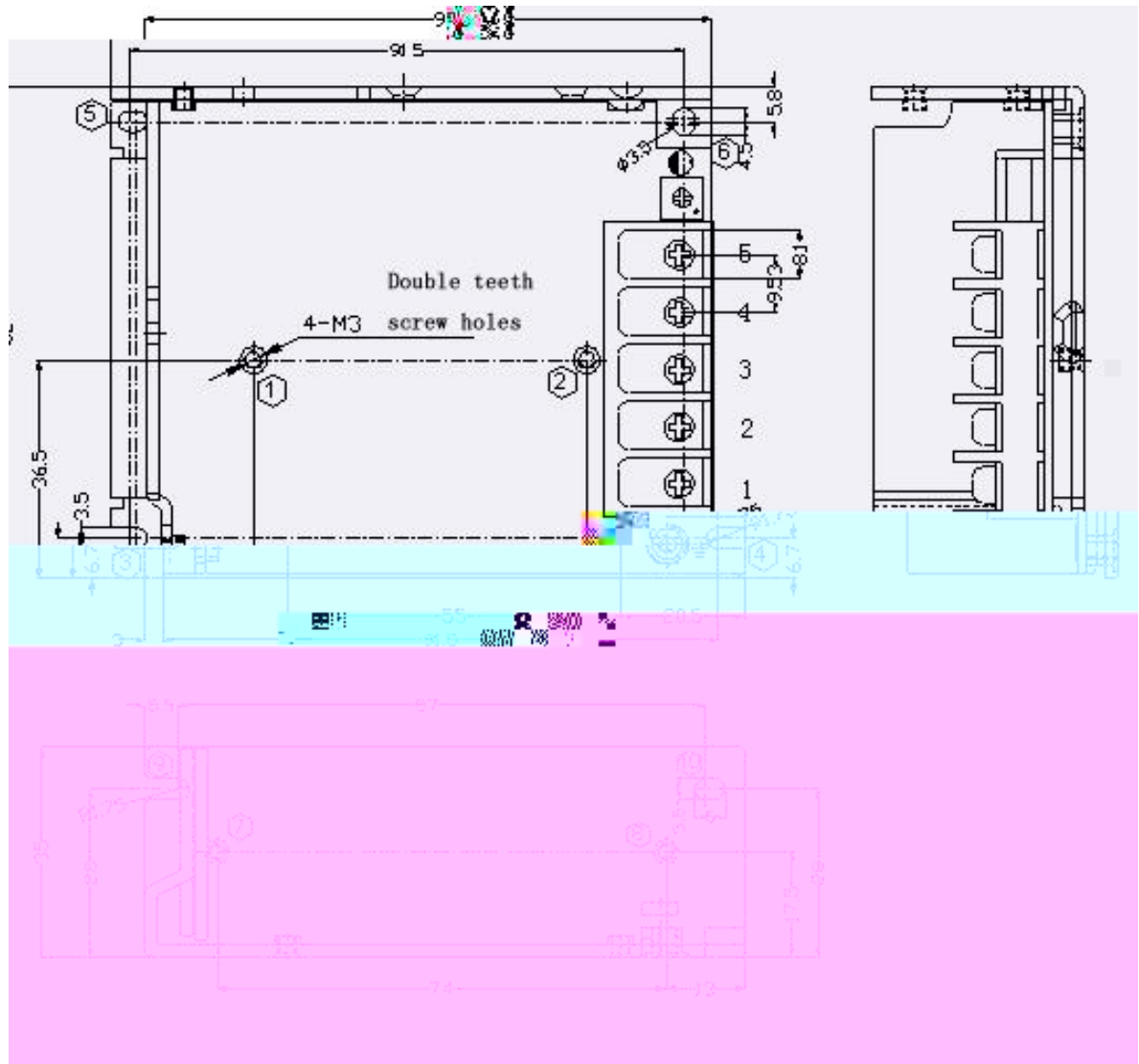




.2



.3



		①-②	M3	4mm	6.5Kgf.cm(ma)
		-	M3	4mm	
		-	M3	4mm	6.5Kgf.cm(ma)
		-	M3	4mm	

node one