



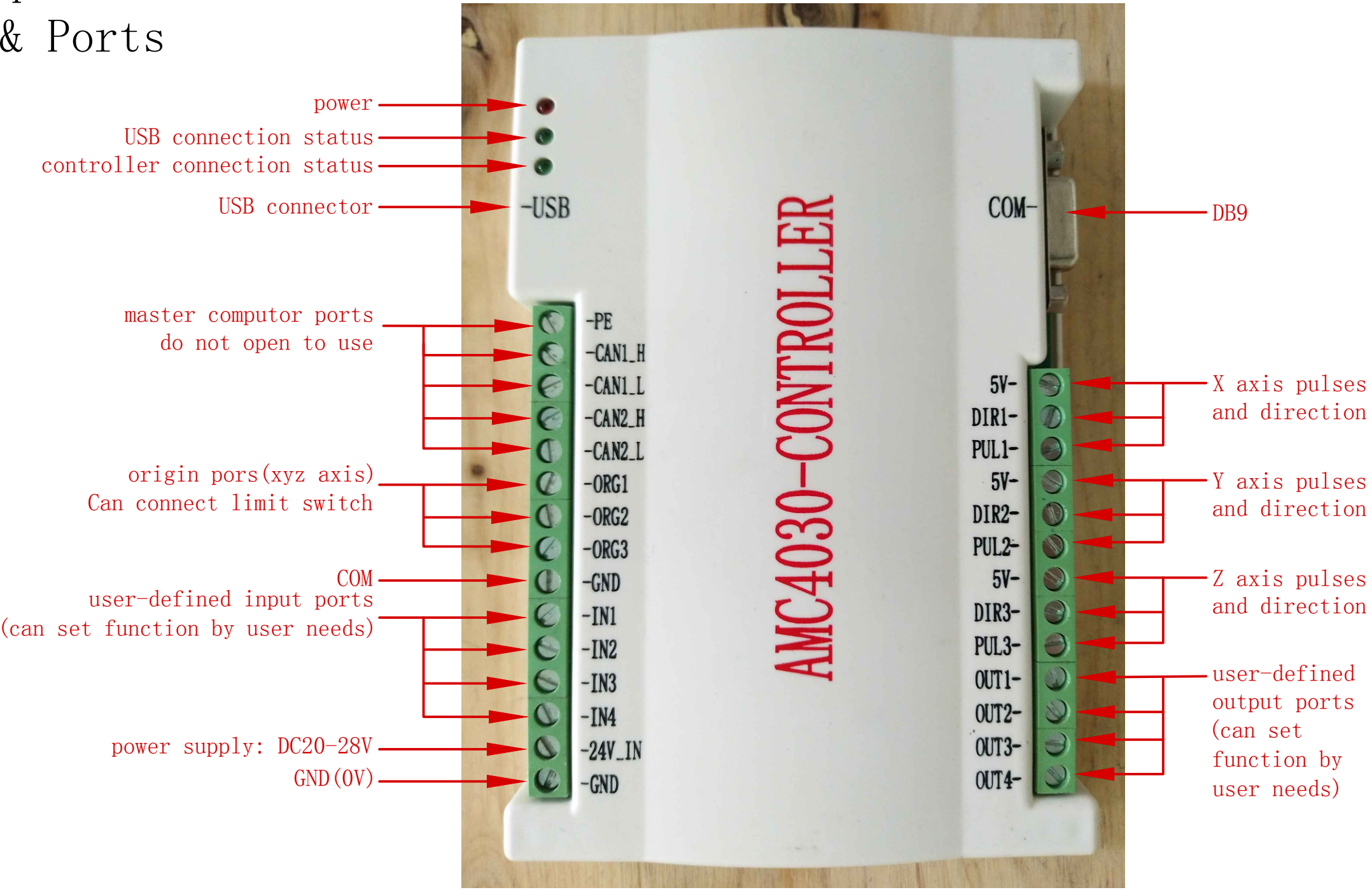
成都福誉科技有限公司
FUYU TECHNOLOGY CO., LTD

AMC4030-3 axis controller

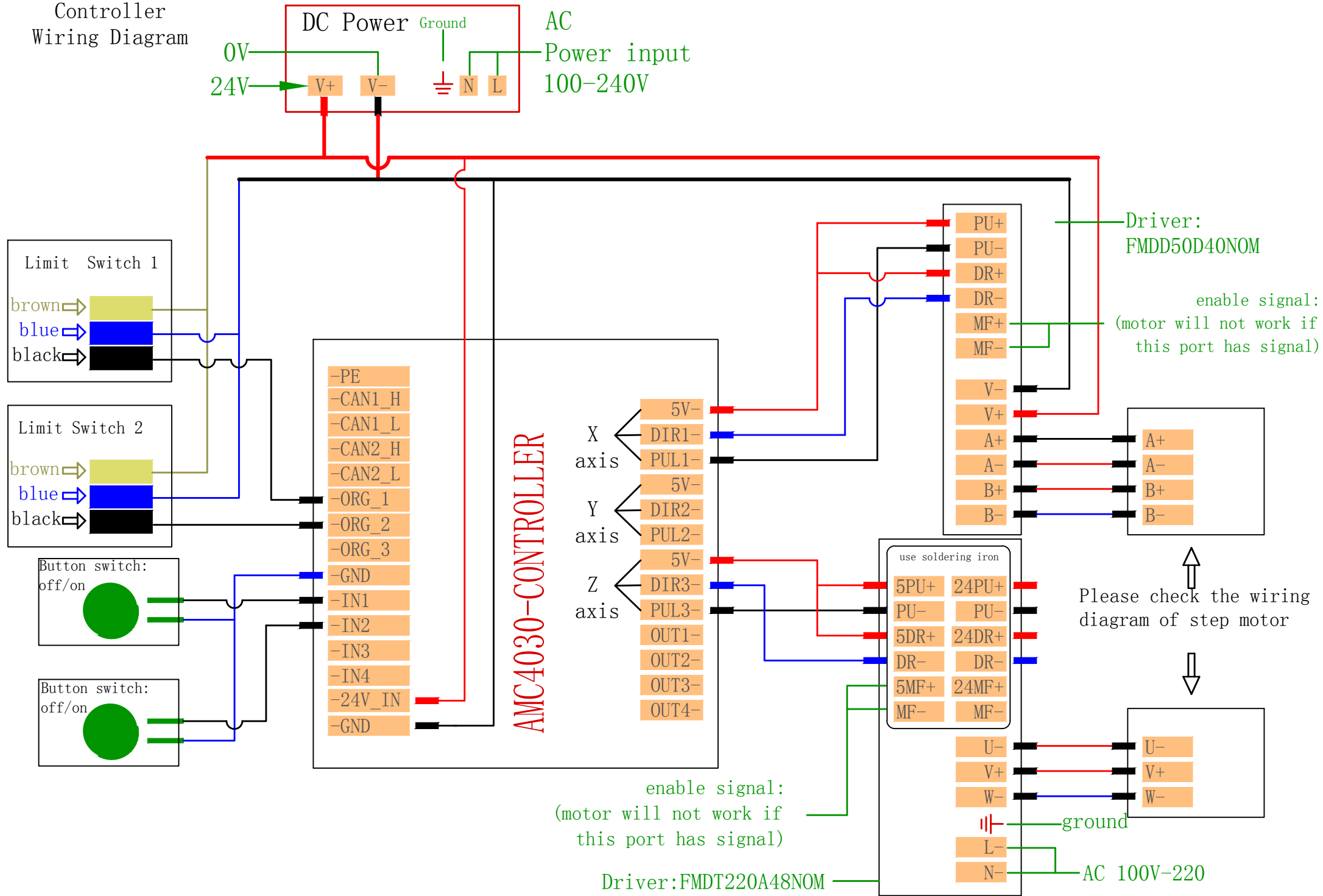
Program Using Handbook

Edition: V3.0.0.3

Appearance & Ports



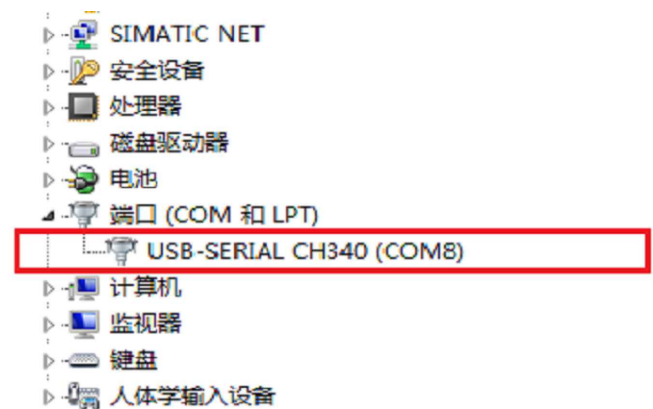
Controller Wiring Diagram



AMC4030-3 axis controller USB driver set up

Step1

| 名称 | 修改日期 | 类型 |
|--------------|---------------|----------|
| DRVSETUP64 | 17.8.29 12:08 | 文件夹 |
| 安装失败解决办法 | 17.8.29 12:08 | 文件夹 |
| CH341PT.DLL | 05.7.30 0:00 | 应用程序扩展 |
| CH341S64.SYS | 11.11.5 0:00 | 系统文件 |
| CH341S98.SYS | 07.6.12 0:00 | 系统文件 |
| ch341SER | 11.11.25 7:22 | 安全目录 |
| CH341SER | 11.11.4 0:00 | 安装信息 |
| CH341SER.SYS | 11.11.5 0:00 | 系统文件 |
| CH341SER.VXD | 08.12.18 0:00 | 虚拟设备驱动 |
| readme | 12.10.9 17:51 | 文本文档 |
| SETUP | 12.2.15 0:00 | 应用程序 |
| 安装失败解决办法 | 15.1.14 12:13 | 360压缩 RA |



After install success, right click "computer" then click "administer" you can find the USB connect as shown in front.

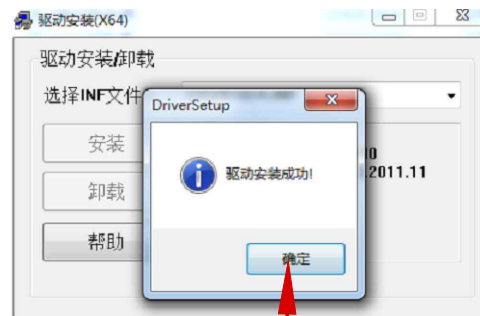
Click SETUP

Step2



Click Install

Step3

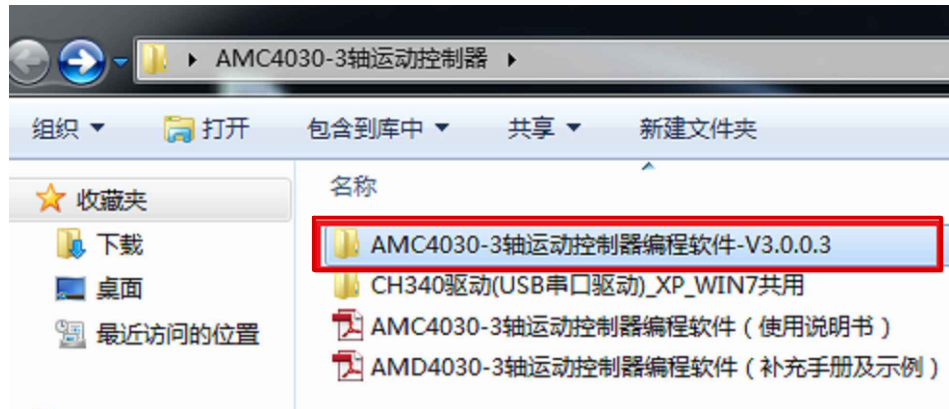


If install success while the USB still not working. Please copy the two file: "serenum.sys" and "serial.sys" in C:\Windows\System32\drivers floder and try again

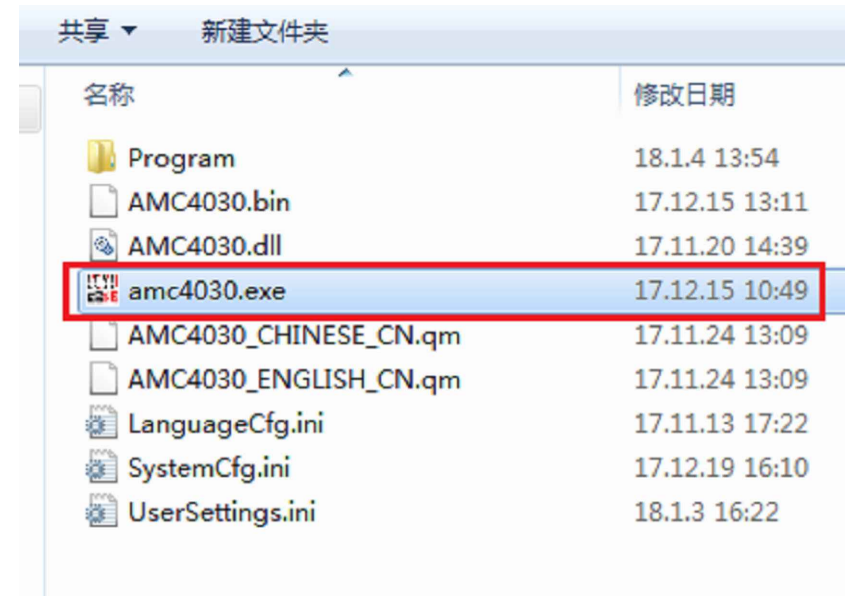
Set up success

AMC4030-3 axis controller program open program

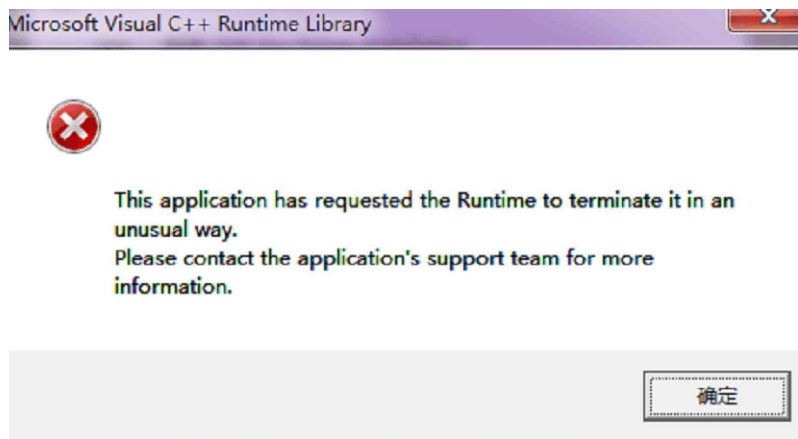
step1. open the folder as shown bellow



step2. open program "AMC4030.exe"



note: When these errors appear please
download suitable system patch



AMC4030-3 axis controller program parameter setting interface

The screenshot shows the 'AMC4030 - Motion Controller Programming Software For 3 Axis' interface. The window title is 'Chengdu Fuyu Technology Co.,Ltd. AMC4030 - Motion Controller Programming Software For 3 Axis'. The main area is titled 'Axis Parameters' and includes a 'Current State: The controller is not present!' message. It features three radio buttons for 'X Axis', 'Y Axis', and 'Z Axis', with 'X Axis' selected. Below these are input fields for 'Pulse FCTR = Once DIST / Pulse NUM' (0.001 = 10 / 10000), 'Home DIR:' (N), 'ORGN OPST (mm)' (0.5), and 'Home SPD (mm/s)' (10). The 'Max DIST (mm)' field is set to 10000. The 'Other Parameter' section includes 'SYS ACC (mm/s^2)' set to 500. At the bottom are buttons for 'Loade PARM', 'Save PARM', and 'RSTR SET'. A left sidebar contains buttons for 'BRK CTL', 'MNL OPER', 'Set PARM', 'Edite PGM', and 'About'. Red arrows and text annotations explain the functions of various elements: 'moving distance that motor run one cycle' points to 'Max DIST (mm)'; 'switch X/Y/Z axis' points to the radio buttons; 'set subdivision pulses need for one cycle' points to the 'Pulse FCTR' field; 'choose the home direction' points to the 'Home DIR:' dropdown; 'set home back speed (a high speed will decrease the accuracy)' points to the 'Home SPD (mm/s)' field; 'effective length of linear guide according to the origin point' points to the 'ORGN OPST (mm)' field; 'download the existing parameter in controller' points to the 'Loade PARM' button; and 'save the new parameter' points to the 'Save PARM' button. A note 'click switch parameter setting interface' points to the 'Set PARM' button.

moving distance that motor run one cycle

switch X/Y/Z axis

set subdivision pulses need for one cycle

choose the home direction

click switch parameter setting interface

set home back speed (a high speed will decrease the accuracy)

effective length of linear guide according to the origin point

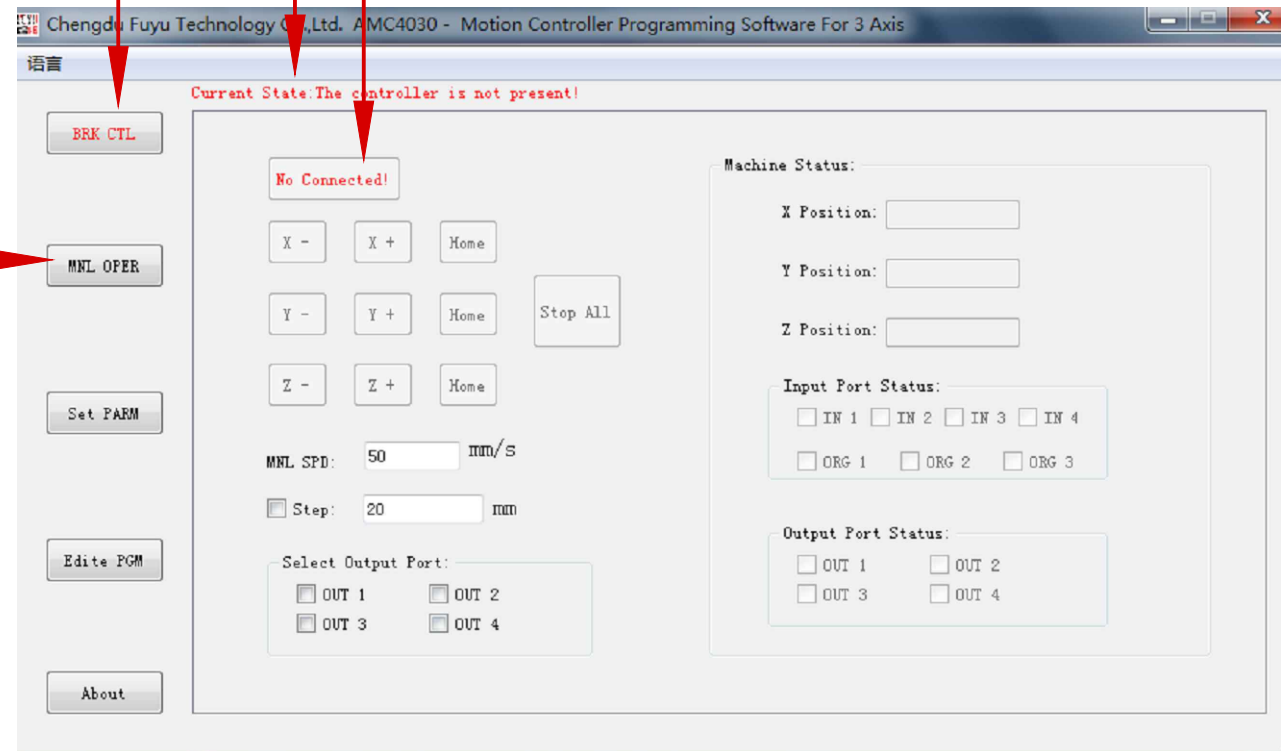
download the existing parameter in controller

save the new parameter

AMC4030-3 axis controller program operate manual interface

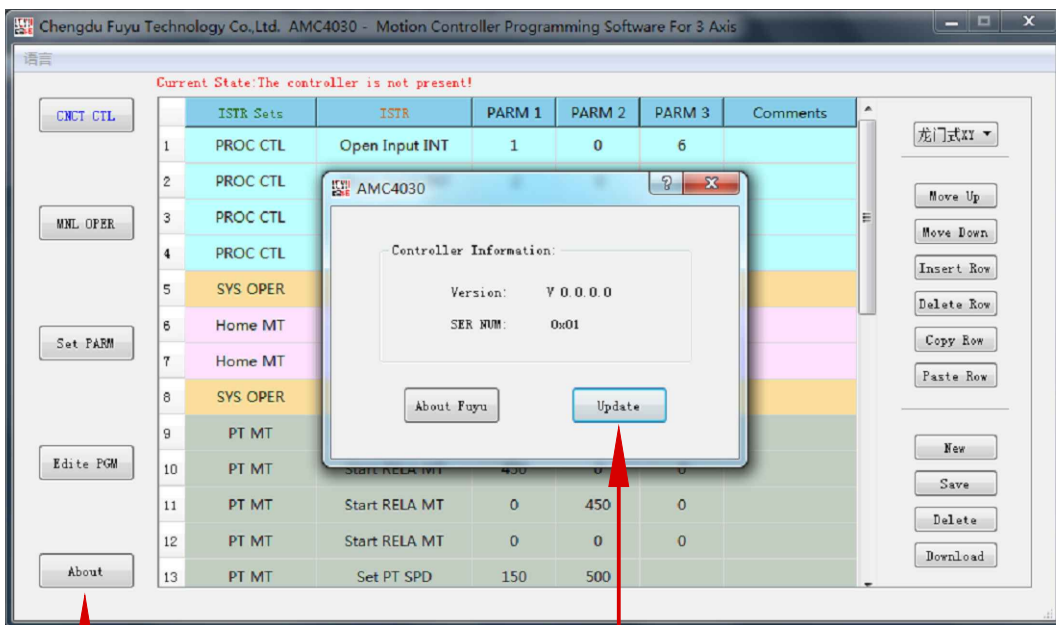
connection status
connect/break controller
switch manual control/automatic control

bush button switch
to operate manual

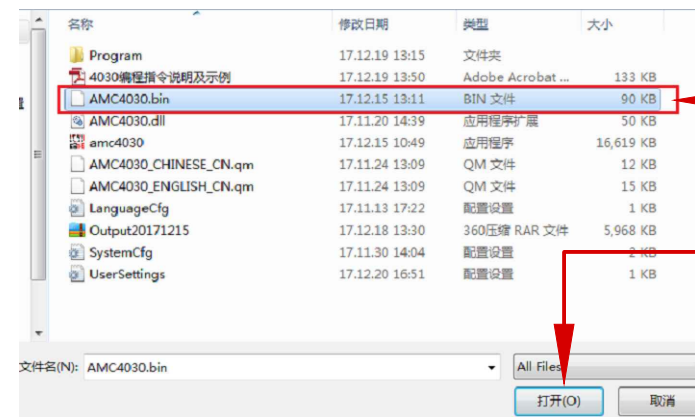


AMC4030-3 axis controller program program update

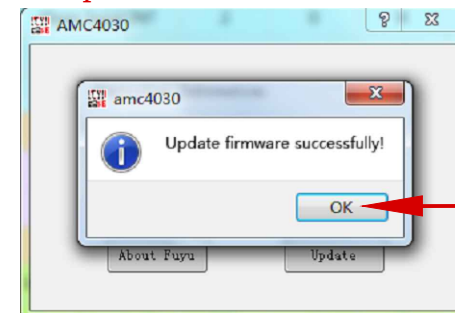
step1



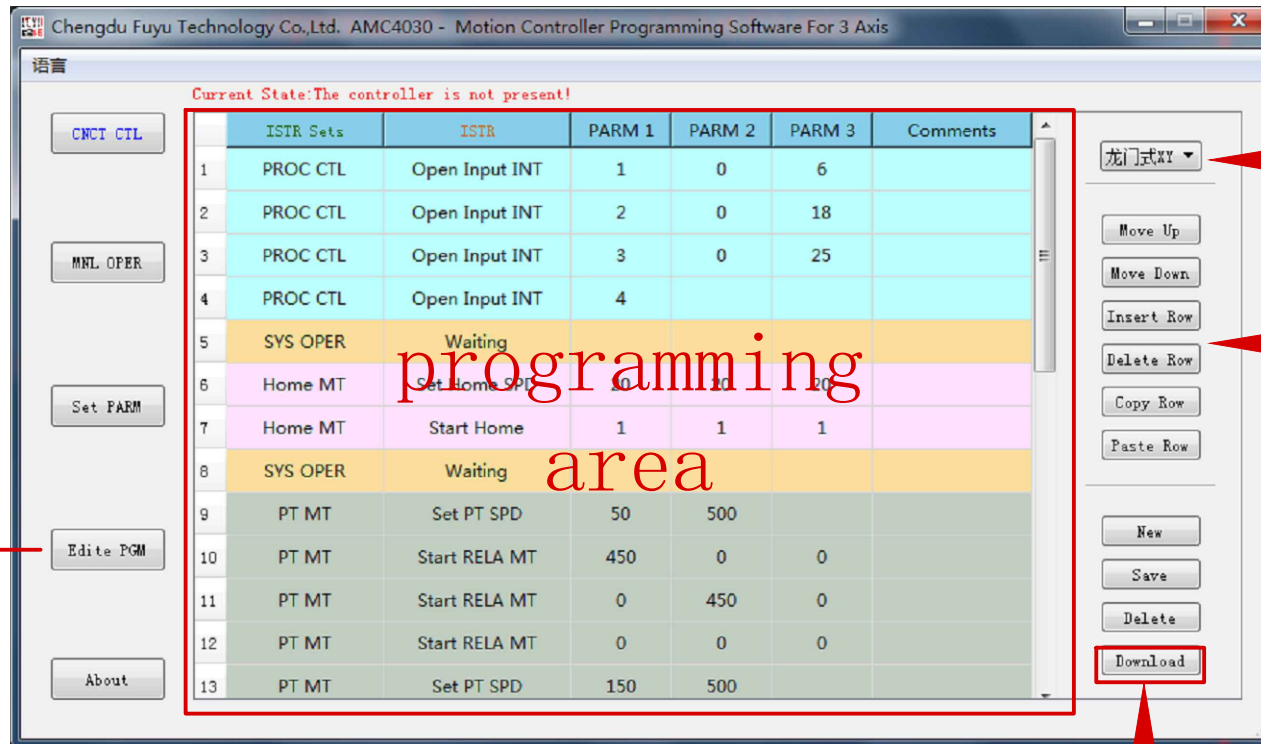
step2



step3



AMC4030-3 axis controller program programming interface



push button
switch to
programming area

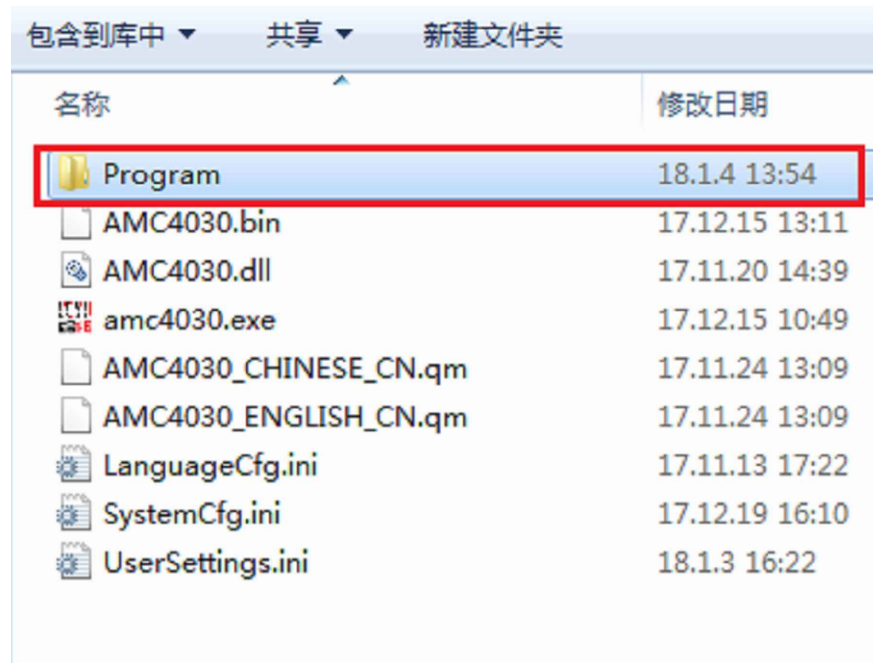
choose cases

edition instruction

write the program in controller

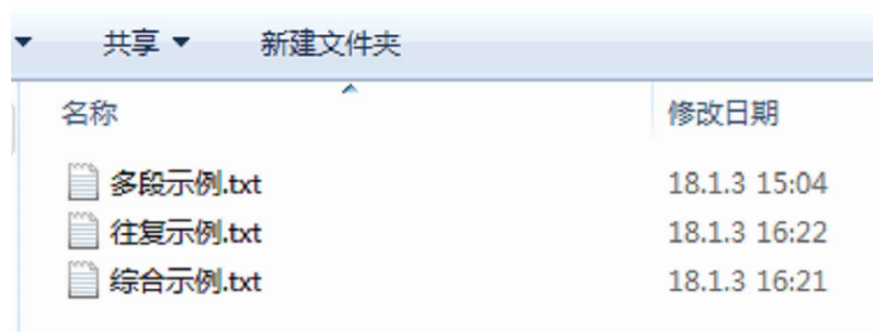
- notes:
1. After editing a new program please connect the controller and write the program in controller
 2. Controller process based on the order in programming area step by step
 3. When the controller running to the blank order or the "stop all" order controller will end the automatic process cannot jump to other line. customer can set a "waiting" order to keep the program running

AMC4030-3 axis controller program program save location



| 名称 | 修改日期 |
|-----------------------|----------------|
| Program | 18.1.4 13:54 |
| AMC4030.bin | 17.12.15 13:11 |
| AMC4030.dll | 17.11.20 14:39 |
| amc4030.exe | 17.12.15 10:49 |
| AMC4030_CHINESE_CN.qm | 17.11.24 13:09 |
| AMC4030_ENGLISH_CN.qm | 17.11.24 13:09 |
| LanguageCfg.ini | 17.11.13 17:22 |
| SystemCfg.ini | 17.12.19 16:10 |
| UserSettings.ini | 18.1.3 16:22 |

when customer edit a new program
the the information will be
saved in the folder "program"



| 名称 | 修改日期 |
|----------|--------------|
| 多段示例.txt | 18.1.3 15:04 |
| 往复示例.txt | 18.1.3 16:22 |
| 综合示例.txt | 18.1.3 16:21 |

paste the suitable format
document in "program" folder can
also add the edition program in
"amc4030.exe"

Instruction Explanation Table SJ1.2

| order | ISTR Set | INSTR | PARM1 | PARM1 notes | PARM2 | PARM2 notes | PARM3 | PARM3 notes | INSTR Notes |
|-------|------------------|---------------------|--------------|---------------------------------|--------------|---------------------------------|--------------|---------------------------------|--|
| 1 | SYS OPER | Stop All | × | × | × | × | × | × | System over,clear all of the data. Cannot running anyother instrucion,unless power off and restart the controller |
| 2 | | Delay time | Integer | unit:ms | × | × | × | × | System waiting (max:20 days) |
| 3 | | Wait Motor Done | 0/1 | X axis 0(No)/1(Yes) | 0/1 | Y axis 0(No)/1(Yes) | 0/1 | Z axis 0(No)/1(Yes) | Wait the motor finish running jump to the following step |
| 4 | | Stop the Motor | 0/1 | | 0/1 | | 0/1 | | Stop the motor jump to the following step |
| 5 | | Waiting | × | × | × | × | × | × | stop the system. Only "Open input INT" available |
| 6 | PROC CTL | Program Jump | Integer | × | × | × | × | × | Can Jump any line |
| 7 | | Program Loop | Integer | jump line | NUM | Loop time | × | × | After program jump to wanted line loop time will -1 |
| 8 | | Input Jump | 1/2/3/4 | IN1/IN2/IN3/IN4 | 0/1 | 0(low level)/ 1(high level) | NUM | Jump line | When program running this line and input port is setting condition, program jump to wanted line |
| 9 | | Open Input INT | 1/2/3/4 | | 0/1 | | NUM | Jump line | During the program process. When input port condition happened,jump to wanted line |
| 10 | | Close Input INT | 1/2/3/4 | | 0/1 | | × | × | During the program process. When input port condition happened,close the "Open Input INT" Which have set before |
| 11 | Output OPER | Set Output | 1/2/3/4 | OUT1~OUT4 | 0/1 | 0(low level)/1(high level) | × | × | Set the output port voltage(0V or 24V) |
| 12 | Home MT | Set Home SPD | Positive NUM | for X axis | Positive NUM | for Y axis | Positive Num | for z axis | Speed Unit:mm/s, Acceleration is "SYS ACC" in "Set PARM" |
| 13 | | Start Home | 0/1 | 0(Yes)/1(No) | 0/1 | 0(Yes)/1(No) | 0/1 | 0(Yes)/1(No) | Conform the home motion for each axis |
| 14 | PT MT | Set PT SPD | Positive NUM | Velocity mm/s | Positive NUM | Acceleration mm/s ² | × | × | velocity and acceleration are vector.Direction from first point to next point |
| 15 | | Start RELA MT | NUM | moving distance for X axis (mm) | NUM | moving distance for Y axis (mm) | NUM | moving distance for Z axis (mm) | The location of final is relative to current point. |
| 16 | | Alone Axis MT | 1/2/3 | X/Y/Z axis | Positive NUM | Coordinate | × | × | 1.For this command program must do a back home before(provide a origin position) 2.After the command process finish.program jump to the following step |
| 17 | | XY Axis MT | Positive NUM | X-Coordinate | Positive NUM | Y-Coordinate | × | × | |
| 18 | | XZ Axis MT | Positive NUM | X-Coordinate | Positive NUM | Z-Coordinate | × | × | |
| 19 | | YZ Axis MT | Positive NUM | Y-Coordinate | Positive NUM | Z-Coordinate | × | × | |
| 20 | | All Axis MT | Positive NUM | X-Coordinate | Positive NUM | Y-Coordinate | Positive NUM | Z-Coordinate | |
| 21 | Alone Running MT | Set Alone SPD | 1/2/3 | X/Y/Z axis | NUM | Speed mm/s | NUM | Acceleration mm/s ² | For Multiple axis motion. Please set axis speed and acceleration respectively. |
| 22 | | Start Alone Running | NUM | For X axis | NUM | For Y axis | NUM | For Z axis | For "Alone running MT" each axis motion is independent.When the motion start,program will jump to next step.The following motion do not need wait to the front motion finish unless it's order for same axis |

- 1.When controller connect with power supply or use pc controll switch to automatic in "CNCT CTL",program will run automaticly.
- 2.Program running from the first line and step by step
- 3.Set "Waiting" and "Open Input INT" in the beginning is an useful method to control the system start
- 4."Stop All" will stop the system, Do not set this order if your want reuse some function

1 . Words Abbreviation

| | | |
|------|-------------------|------|
| AC | Automatic Control | 自动控制 |
| ACC | Acceleration | 加速度 |
| BRK | Broken | 断开 |
| CLR | Clear | 清除 |
| CNCT | Concatenate | 连接 |
| CTL | Control | 控制 |
| CUR | Current | 当前的 |
| DIR | Direction | 方向 |
| DIST | Distance | 距离 |
| EQV | Equivalent | 当量 |
| FCTR | Factory | 工厂 |
| INT | Interrupt | 中断 |
| ISTR | Instruct | 指令 |
| MC | Manual Control | 手动控制 |
| MNL | Manual | 手动 |
| MT | Movement | 运动 |
| NUM | Number | 号码 |
| OFST | Offset | 回退 |
| OPER | Operate | 操作 |
| ORGN | Origin | 原点 |
| PARM | Parameter | 参数 |
| PGM | Program | 程序 |
| PROC | Process | 流程 |
| PT | Position | 点位 |
| RELA | Relative | 相对的 |
| RSTR | Restoration | 恢复 |
| RVRS | Reverse | 相反的 |
| SER | Serial | 序列 |
| SET | Setting | 设置 |
| SPD | Speed | 速度 |
| STAT | Status | 状态 |
| SUCC | Successful | 成功 |
| SYS | System | 系统 |