Harvesting <a>PRobot Arm

Operation Manual and instructions Harvesting Robot Arm



TABLE OF CONTENTS

- 1. General Information
- 2. Operation Controls and Instruments
- 3. Field Operations
- 4. Adjustments



General Information

The harvesting robot including two main part the arm &the car as showing in Figure 1



Figure 1



WARNING

Don't try to move the base of the arm manual the base of the arm only move by motor base because the type of gearbox of motor base is warm gearbox.



WARNING

Don't try to move the head of the arm manual, the head of the robot only moves by head motor because the type of gearbox of motor head is warm gearbox.



WARNING

Don't try to move the car of the robot manual the car of the robot only move by motor car because the type of gearbox of motor car is warm gearbox.



WARNING

The recommended voltage of the battery is 12V, 10A.

Operation - Controls and Instruments

Figure 2 showing the main part of arm

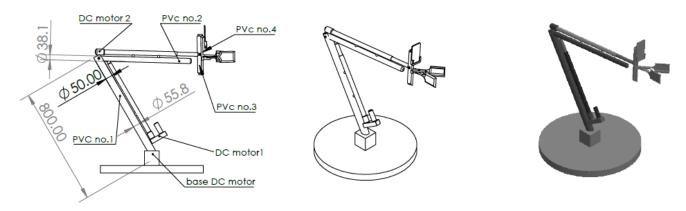


Figure 2

Make sure before starting the robot the bolt of the arm & bolt of the head are well tied, make sure to check the chain of motor base before starting, the three bolt is M8 so use spanner 13 or Hex Tubular 13 figure 3 showing the bolt position on the robot and figure 4 showing the spanner & hex tubular.

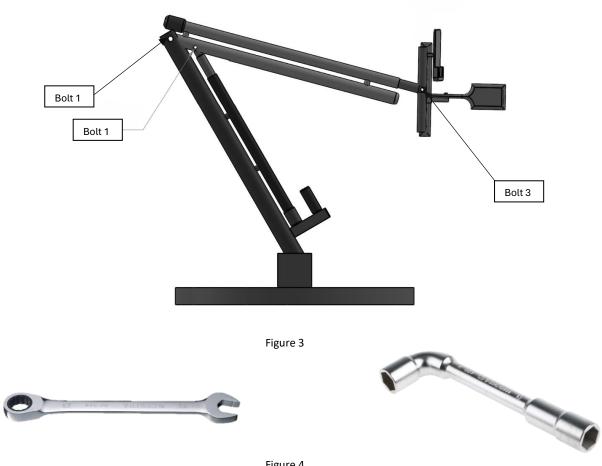


Figure 4

Before starting the robot make sure all the cable are connected to the port H1, H2, C1 and then the power cable to the battery figure 5 showing the cable and the port, then connect the power cable to the battery The recommended voltage is 12V some can motor work with 24V,36V every power cable is sine white label showing the maxim volt.

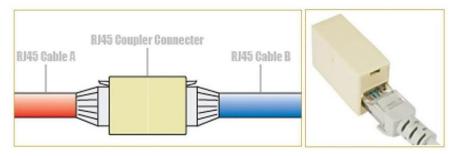


Figure 5

Field Operations

To starting the robot after connecting the power cable to battery open the mobile application and connect the Bluetooth then you can control any motor of the robot figure 6 showing the mobile application

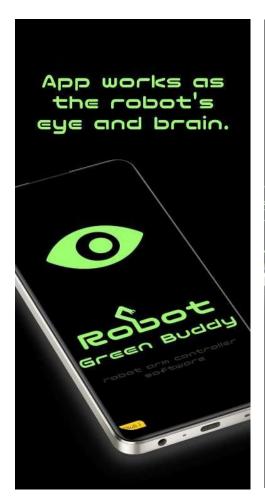






Figure 6

Aftar conecte the battery or the power sours to the robot start open the mobile application when the application start loding as showing in figure 7



Figure 7

When the application opens the will have some options the first icon "Discover the App" this option allows to the user to use the app an discover the details whiteout connecting to the robot, the second icon "Automatic control" this option allow to the user to connect to the robot and start searching mode, the third icon "manual control" is allow to the user to control the motor manual as showing in figure 8



Figure 8

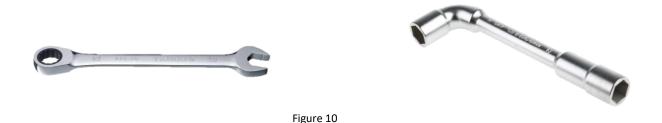
When the user chose the "Automatic control" then the connecting page open this page allow to be connecting to the robot white mobile application by the Bluetooth as showing in figure 9



Before starting to search make sour ever motor in right position motor base and head of the robot on position zero then put the phone in the phone holder on the robot head recommend using the front camera for better result of searching

Adjustments

After finishing make sour ever bolt and nuts are tide will by ever one and use spanner 13 or Hex Tubular 13 white bolt m8 & spanner 10 or Hex Tubular 10 white bolt m6



Refer to the report in case you need more information

