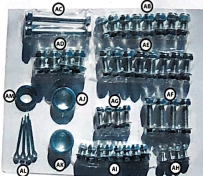
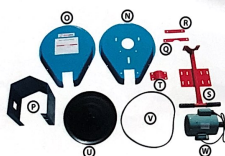


## MB22 INSTRUCTIONS

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## MB22 INSTRUCTIONS

### 1- FRAME UPPER

Ensure that you are working on a clean flat surface. A drop sheet may be useful to ensure parts are not damaged during assembly. Take the upper frame section (A) and middle frame section (B) and lay on side. Using the bolt (AB) insert the bolt through the hole, slide on the washers and then attach the nut to the end. Repeat this step 3 more times and tighten all bolts using a 17mm socket and 14mm spanner.

### 2- FRAME LOWER

Take the front frame section (C) and place next to the other end of the middle frame section. Using the bolt (AB) insert the bolt through the hole, slide on the washers and then attach the nut to the end. Repeat this step 3 more times and tighten all bolts using a 17mm socket and 14mm spanner. The frame is now complete.

### 3- UPPER CROSS BRACE

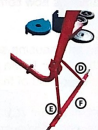
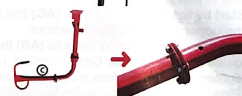
Take the upper cross brace – Right (D), insert a bolt (AC) through the brace and then through the hole in the upper frame section. Take the upper cross brace – left (E) and insert this onto the bolt and then slide on the washer and nut. At this point only hand tighten the nut.

### 4- AXLE & UPPER CROSS BRACE

Take the axle (F) and place this with the holes that are closer together at the top. Take the upper cross brace – left (E) and with bolt (AD) insert it through the brace and axle and slide on washer and nut from underneath and hand tighten. Repeat this step for the upper cross brace – right (D) using the same bolt and nuts (AD). At this point only hand tighten the nut.

### 5- LOWER CROSS BRACE

Take the lower cross brace – right (G), and with bolt (AC) insert this through the brace and then through the hole in the middle frame section. Take the lower cross brace – left (H) and insert this onto the bolt and then slide on the washer and nut. At this point only hand tighten the nut.



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## MB22 INSTRUCTIONS

### 6- AXLE & LOWER CROSS BRACE

Take the lower cross brace – right (**G**) and with bolt (**AD**) insert it through the brace and axle and slide on washer and nut from behind and hand tighten.

Repeat this step from the lower cross brace – left (**H**) using same bolt and nuts (**AD**).

At this point only hand tighten the nut.

### 7- AXLE TIGHTENING

It is now time to tighten up all bolts, take a 19mm spanner and 17mm socket.

Start by tightening up the bolts (**AC**) that go through both the upper and middle frame sections.

Then move to tightening the bolts (**AD**) that join the upper cross brace to the axle. Once complete, move to tightening the lower cross brace on the axle.

Please note that as you tighten the bolts it will pull the braces and axle together.

### 8- WHEEL ATTACHMENT

Take a wheel (**I**) and slide it onto the axle. You need to reduce the space between the wheel and the hole where the split pin goes, so using a small thin packing washer (**AM**), place this onto the axle.

Then take a split pin (**AL**) and slide this through the hole and with pliers bend the split pin to secure the wheel to the axle.

Repeat the above steps for the other wheel.

The frame assembly is now complete.

### 9- BEARING ARM

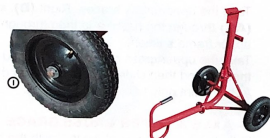
Take the bearing arm housing section (**J**) and place this onto the top of the upper frame section.

You will need to keep hold of this as it will not sit in place by itself.

Take the frame arm mount (**L**) and place this over the top of the bearing arm housing section.

Using a bolt (**AE**) insert it through the top and slide on the washer and nut underneath. Repeat this three more times.

Now tighten up all 4 bolts using a 17mm socket and 14mm spanner.



## MB22 INSTRUCTIONS

### 10- HANDLES

Take a handle (**M**) and line the holes in the handle up with the holes in the bearing arm housing section.

Ensure that the handle arm points outwards.

Using bolt (**AF**) insert it through the top hole from the back of the bearing arm housing section and through the handle and then slide on the washer and nut, place another bolt through the bottom hole and apply washer and nut.

Take the other handle (**M**) and attach it to the other side of the bearing arm housing section using bolts (**AF**). Now tighten up all 4 bolts using a 17mm spanner and 14mm socket.



### 11- PINION AND SHAFT

Take pinion and shaft (**K**) and slide a thin packing washer (**AJ**) onto the shaft.

Then slide the shaft into the bearing arm housing section. Now take a thick packing washer (**AK**) and thin packing washer (**AJ**) and slide them onto the end of the shaft.

The aim is to reduce any gap between the bearing arm housing section and the split pin hole (more packing washers can be applied if required).

Now insert a split pin (**AL**) through the hole and with pliers bend the split pin to secure.

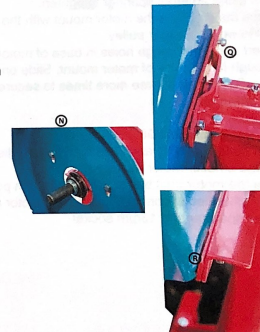


### 12- REAR PULLEY COVER

Take the rear pulley cover (**N**) and cover support – top (**Q**).

Now take a bolt (**AG**) with washer already on and insert it through the inside of the rear pulley cover (**N**) and then through the cover support – top (**Q**) and finally through the frame arm mount bracket and hand tighten the nut. Repeat this step for the other side.

Now take the cover support – bottom (**R**) and with bolt (**AG**) insert this with washer through the inside of the rear pulley cover, then through the cover support bottom and through the welded bracket on the upper frame section. Now tighten up all 4 bolts using a 12mm spanner and 13mm socket.

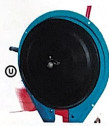




## MB22 INSTRUCTIONS

### 13- PULLEY

Take the pulley (U) to slide onto the shaft.  
When sliding pulley onto the shaft ensure that the two flat surfaces on the shaft line up with the two bolts on the pulley hub.  
Once the pulley is on the shaft take an 8mm spanner and tighten the bolts up to secure pulley to shaft.



### 14- MOTOR MOUNT

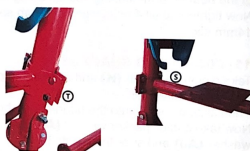
Take the motor mount (S), motor mount clamp (T) and 4 bolts (AE).

Sit on one of the tyres and rest the motor mount (S) on your knee, now take the motor mount clamp (T) and insert a bolt (AE) through the motor mount into the motor mount clamp, slide on washer and nut.  
Insert the remaining three bolts and tighten the nuts by hand.

Move the motor mount up the frame section until it sits just below the pulley cover.

Now slightly tighten up the 4 bolts using a 14mm spanner and 17mm socket.

Do not tighten completely, just enough to stop the motor mount from slipping down the frame section.



### 15- MOTOR

Take the motor (W) and ensure the motor pulley is secure using an 8mm spanner to tighten.

Place the motor on the motor mount with the motor pulley in line with the larger pulley.

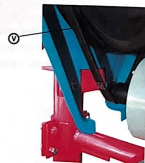
Insert bolt (AI) through holes in base of motor and through inner holes of motor mount. Slide on washer and nuts. Repeat step three more times to secure motor to motor mount.



### 16- PULLEY ALIGNMENT

Take pulley belt (V) and slide onto large pulley and then around smaller motor pulley.

Slide the motor until belt is in line with both pulleys. Now tighten bolts connecting motor to motor mount using 12mm spanner and 13mm socket.



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## MB22 INSTRUCTIONS

### 17- MOTOR MOUNT ALIGNMENT

Using a mallet or hammer lightly tap the motor mount clamp to move the motor mount down the main frame to achieve belt tension.

Once the belt is taut across both pulleys with a min 20mm free play (ensure pulley belt is not over tightened as this may cause damage to the motor) tighten up the 4 bolts using a 14mm spanner and 17mm socket.



### 18- FRONT PULLEY COVER

Take the front pulley cover (O) and place against the back-pulley cover.

Take a bolt (AH), insert through front pulley cover and through hole in back pulley cover.

Slide on washer and then nut and tighten up using a 10mm spanner and 10mm socket.

Repeat the above steps for the remaining three bolts.



### 19- MOTOR COVER

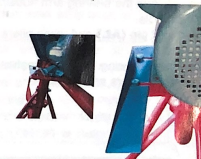
Take a bolt (AI) and insert the bolt through the outer hole of the motor mount and then slide on the washer and lightly tighten the nut.

Insert bolts into the remaining three holes.

Take the motor cover (P) and place it over the motor and line the holes in the bottom of the motor cover with the bolts that were placed on the motor mount.

Check that the holes in the motor cover line up with the switch on the motor.

Now tighten the nuts to secure the motor cover to the motor mount using a 12mm spanner and 13mm socket.



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## MB22 INSTRUCTIONS

### 20- BOWL ASSEMBLY

Take bowl (X) and place facing down.

Now take bowl shaft (Y) and insert by threading into the bowl.

Please note that it is a reversed thread so wind the shaft counter clockwise to tighten. Ensure that the shaft is done up tightly to avoid the bowl loosening whilst in operation.

Now take the bowl shaft cap (Z) and insert onto the shaft with the flat side towards the bowl.

Thin packing washers (AJ) may need to be inserted onto the shaft for correct teeth engagement (refer below).

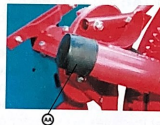
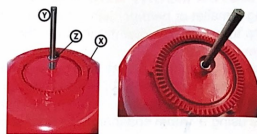
Now insert the shaft of the bowl into the bearing arm housing section.

The shaft has been inserted fully when the teeth of the bowl and the teeth of the pinion are 2/3 engaged upon contact (see image).

Insert thick packing washer (AK) and several thin packing washers (AJ) onto the shaft, the aim is to reduce any gap between the bearing arm housing section and the split pin hole.

Insert split pin (AL) and using pliers bend split pin ends to secure.

Now insert bearing arm bowl section cap (AA) onto end to cover washers and split pin.



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## MB22 INSTRUCTIONS

Model No - MB22

Plant Name - Electric MB22 Side-tip

Manufacture - AG Pulie

Mandatory Personal Protective Equipment



### RISK ASSESSMENT INFORMATION

Operator Competency- Plant Licence Not Required

Potential Hazard(s)	Risk Level	Control Measure(s)
Contact with Moving Parts	Medium	Do not operate unless all covers and guards are correctly mounted on to mixer. Do not place tools or body parts into mixer bowl while mixer is running.
Electrocution	Medium	Use a 10amp lead that is no longer than 30 meters. Ensure that the power lead is in good condition with no cuts or exposed wires. Do not use in wet weather conditions. Ensure that you are connecting to a reliable power supply that is in good condition. Switch ON/OFF at motor

### IMPORTANT

Before using mixer,

Ensure you have read and understood all operator's instructions.

Do not apply grease to the bowl ring gear as the grease will mix with dust to create a grinding paste and wear down the gears-applying grease to the ring gear will void warranty.

### Key Operating Instructions

1. Place mixer on firm, level ground.
2. Connect mixer to mains power supply by using a 10amp power cable not exceeding 30meters in length. Switch motor ON
3. When the bowl is against the loading stop, load mixer with product.
4. Mixer must be running whilst loading and unloading.
5. When mixing is complete, rotate from loading stop and empty mixer as soon as possible.
6. When working is completed, switch motor OFF and disconnect from the mains power supply.
7. Clean the mixer immediately after use. Keeping the mixer clean will ensure best performance.