

hair covering to contain long hair.

12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
13. **DO NOT OVERREACH.** Keep proper footing and balance at all times.
14. **MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. **DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.
16. **USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by manufacturer may cause hazards or risk of injury to persons.
17. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in "OFF" position before plugging in power cord. In the event of a power failure, move switch to the "OFF" position.
18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Do not leave tool until it comes to a complete stop.
22. **STAY ALERT; WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING A POWER TOOL. DO NOT USE TOOL WHILE TIRED OR UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION.** A moment of inattention while operating power tools may result in serious personal injury.
23. **MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or reconnected.
24. **Keep safe clearance around mixer.** Keep all persons (except operator) a minimum of six feet from the mixer during operation.
25. **Do not overload mixer.** An overload could damage equipment.
26. **Do not move mixer during operation.** The mixer could tip over or the motor could be damaged.

**Note:** Performance of this tool may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

**Warning:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## SAVE THESE INSTRUCTIONS.

Refer to them often and use them to instruct others.

**WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.**

## Specifications

MODEL	CT120-MN	CT140-MN	CT160-MN
<b>CHARACTERISTIC</b>			
Voltage(V)	230/110	230/110	230/110
Cycles(Hz)	50/60	50/60	50/60
Drum Capacity (L)	120	140	160
Drum Opening (mm)	358	358	390
Motor --Power(W) --Speed (rpm)	550 1425-1725	550 1425-1725	650 1425-1725
Drum Speed (rpm)	30-32	30-32	30-32

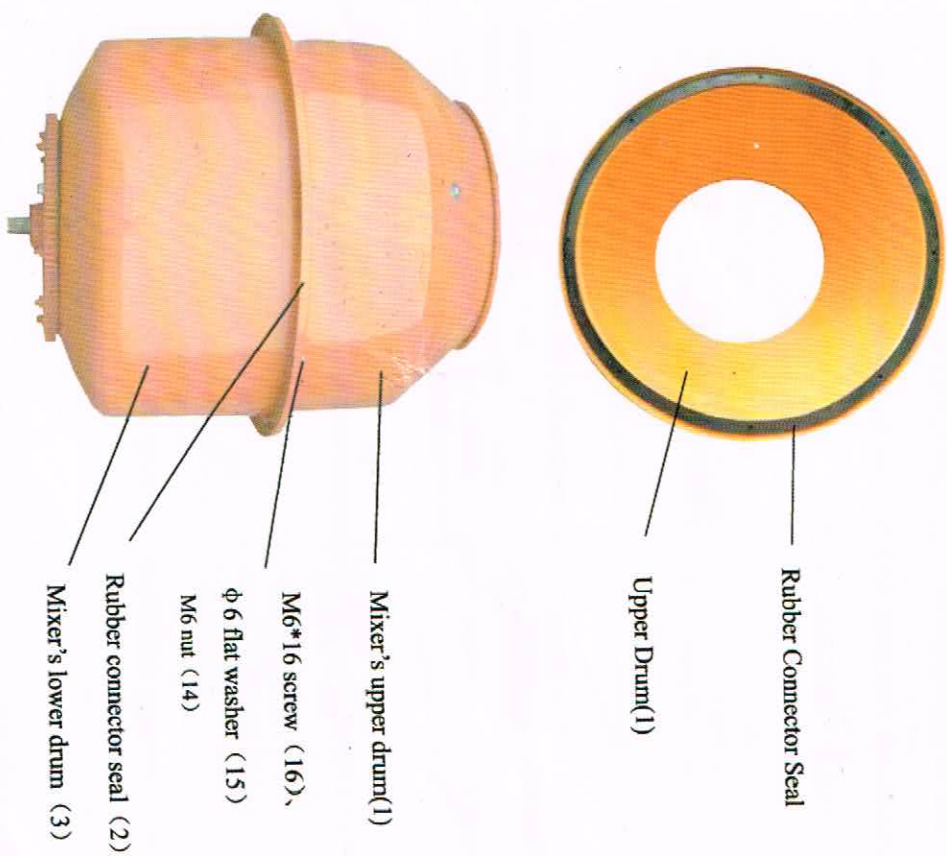
## Unpacking

When unpacking, check to make sure that all components are included. Refer to the assembly drawing on the last page. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

## Assembly

1. Install rubber connector seal(2) and mixer's upper drum(1) to lower drum(3).

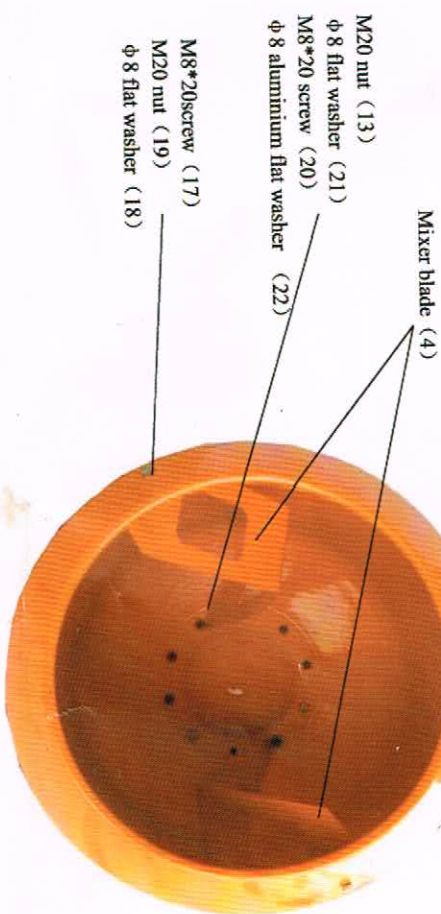
Using M6\*16 screw(16), and  $\phi$  6 flat washer(15).



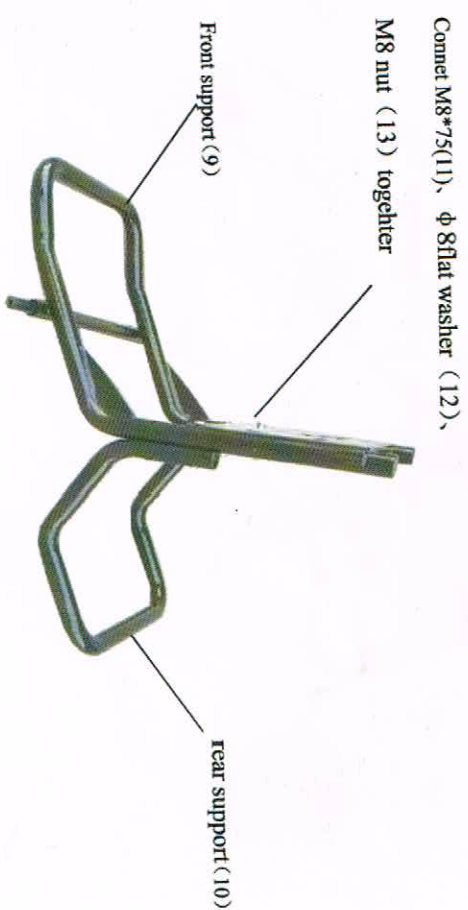
## 2. Install mixer blades.

(1) Fix blade on the bottom of the lower drum using M8\*20 screw(20), M20 nut(23),  $\phi$  8 flat washer (21) and  $\phi$  8 aluminium flat washer(22).

(2) Fix blade on the upper drum using M8\*20 screw(17), M20 nut(19), and  $\phi$  8 flat washer(18).



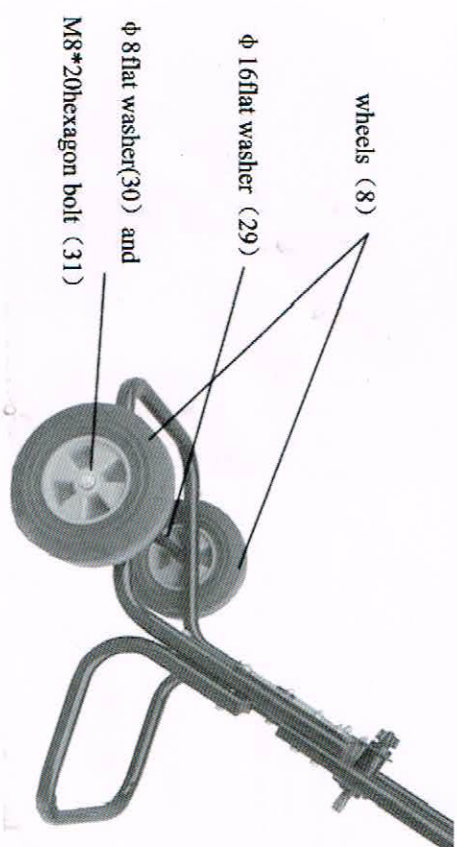
3. Connect front support(9) and rear support(10) together. Using 4 sets of M8\*75 hexagon bolts(11),  $\phi$  8 flat washer (12), and M8 nut (13).



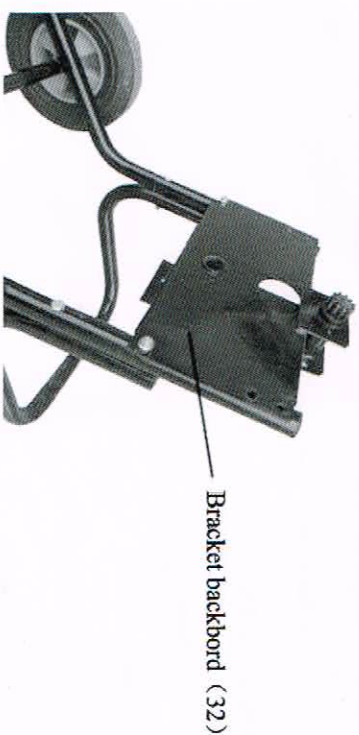


- 4、Install 2 wheels(8) on the assembled support, Put two  $\phi 16$  flat washers (29) on the two ends of wheel axle, then use  $\phi 8$  flat washer (30) and M8\*20 bolt fix and tight.

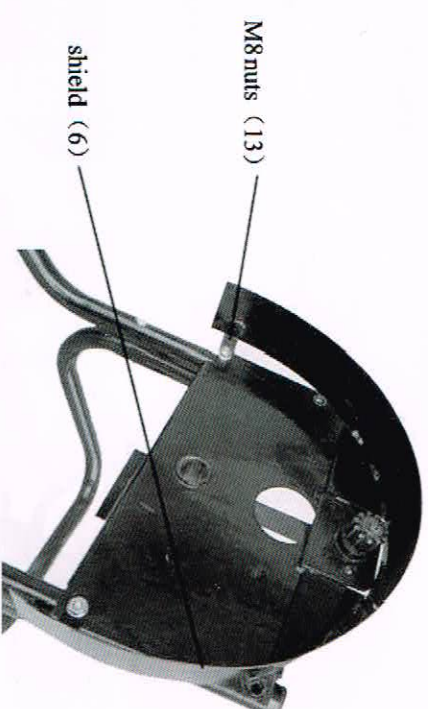
Please note that the two sets of nuts are not assembled temporarily



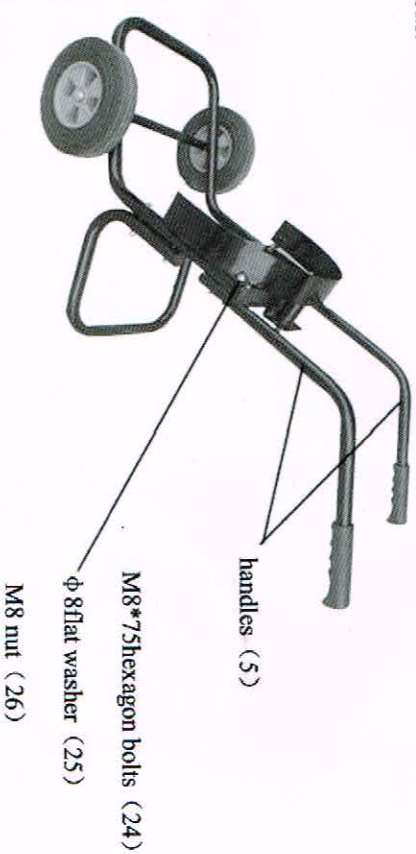
- 5、 Install bracket backboard on the support.



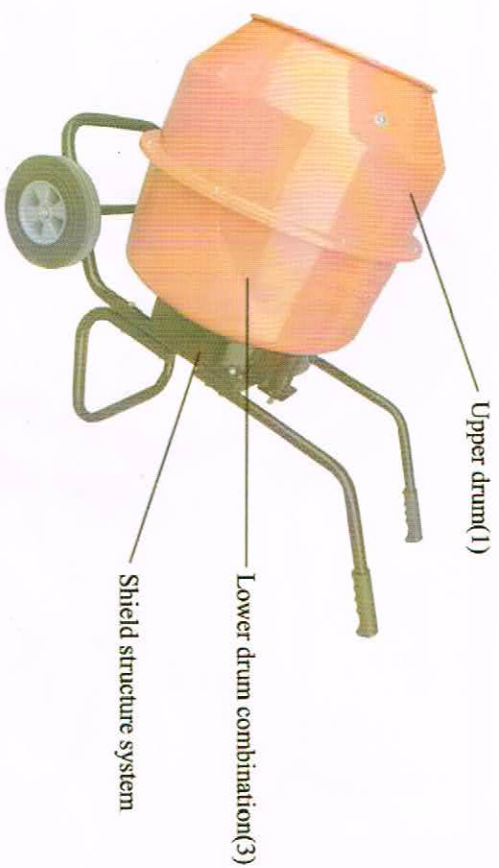
- 5、 Install shield (6) on the bracket backboard (32), tighten two sets of M8 nuts (13)。



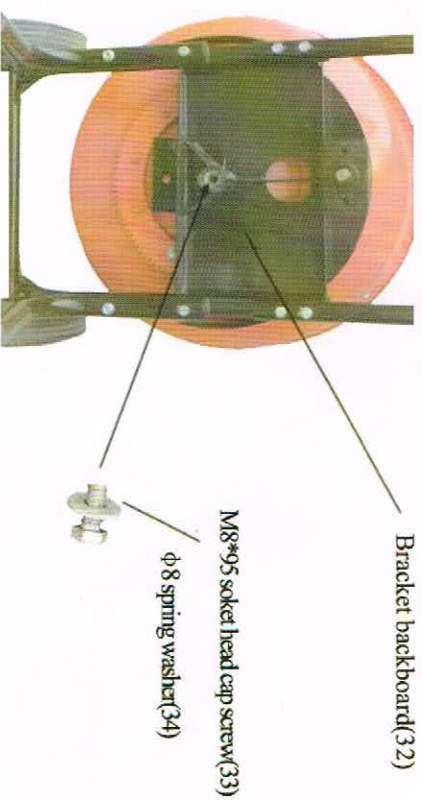
- 6、 Install 2 handles. Using 4 M8\*75 hexagon bolt(24) to cross bracket backboard, including in 2 bolts crossing shield, then use  $\phi 8$  flat washer and M8 nut to tighten the bolts.



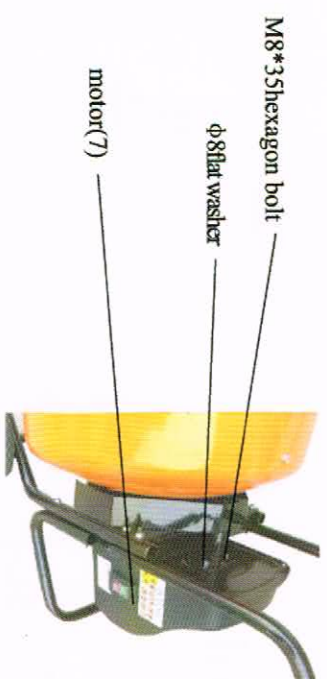
- 7、 Install assembled drums combination to the assembled understructure.



- 8、 Use 8\*95 socket head cap screw(33) and  $\phi 8$  spring washer to tighten the round hole, which is on the back of the bracket backboard(32).



- 9、 Install motor. Use 3 sets of M8\*35 hexagon bolts and  $\phi 8$  (28) flat washer tighten the motor.



- 10、 Rack Install (see photos below)

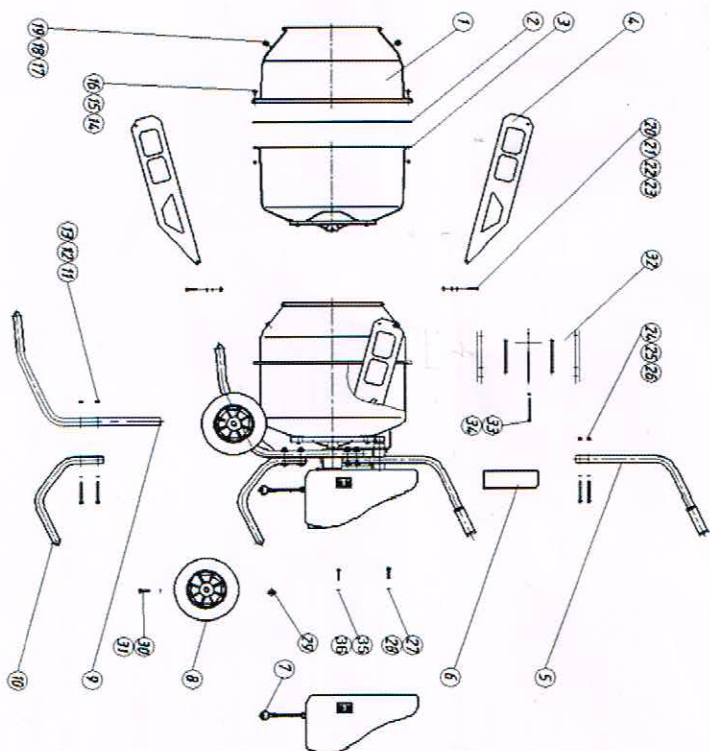


## Maintenance

1. After use, immediately wash out all debris from the inside and outside of the Concrete Mixer. Make sure the Power Cord is disconnected.
2. Do not apply water in or around the Motor Base Cover.
3. Retighten belt after the first 25 hours of use. The belt should be able to be pressed in no more than 1/4 inch.
4. Periodically recheck all nuts, bolts, and screws for tightness.



# Breakdown



Remark: Due to constant improvement on products, all the parameters are subject to real products.

## Parts List

Item#	Description	Qty	Item#	Description	Qty
1	Upper drum	1	19	M8 Nut	2
2	Rubber connector seal	1	20	M8*20 Hexagon screw	2
3	Lower drum	1	21	φ 8 Flat washer	2
4	Mixer blade	2	22	φ 8 Aluminium flat washer	2
5	Handle	2	23	M8 Nut	2
6	Shield	1	24	M8*75 Hexagon bolt	4
7	Motor	1	25	φ 8 Flat washer	4
8	Wheel	2	26	M8 Nut	4
9	Front support	1	27	M8*35 Hexagon bolt	3
10	Rear support	1	28	φ 8 Flat washer	3
11	M8*75 Hexagon bolt	4	29	φ 16 Flat washer	2
12	φ 8 Flat washer	4	30	M8*20 Hexagon bolt	2
13	M8 Nut	4	31	φ 8 Flat washer	2
14	M6 Nut	12	32	Bracket backboard	1
15	φ 6 Flat washer	12	33	M8*95 Sket head cap screw	1
16	M6*16 Screw	12	34	φ 8 Spring washer	1
17	M8*12 Screw	2	35	M14*35 Hexagon bolt	1
18	φ 8 Flat washer	2	36	φ 14 Flat washer	1



# Trolley type Concrete Mixer



**CT-125 CT-140**

**CT-160 CT-180**