

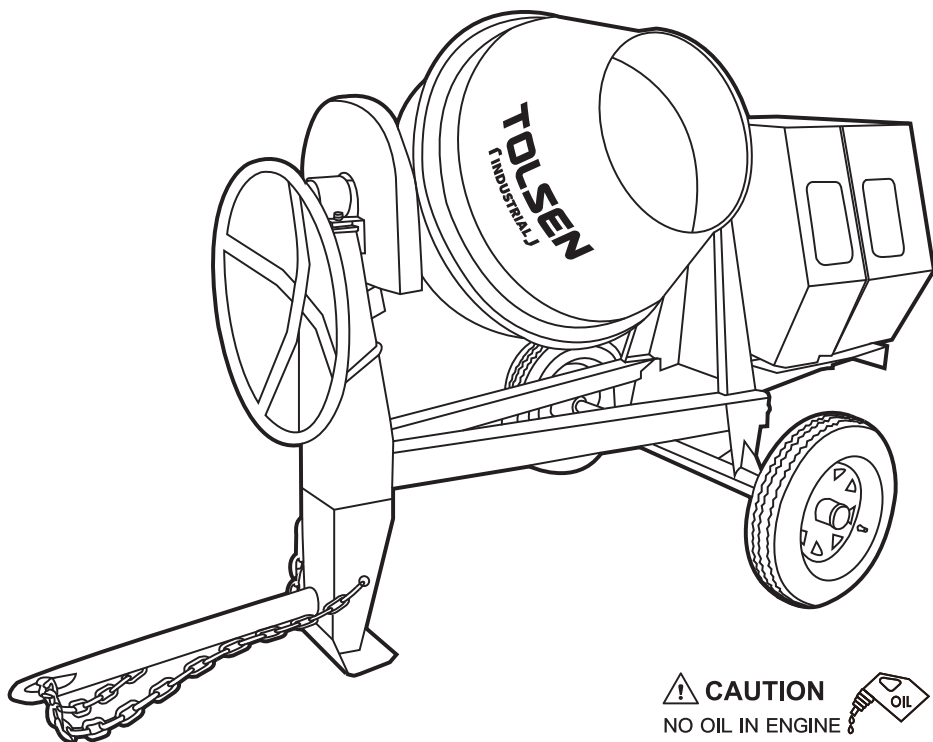
TOLSEN

86195

CONCRETE MIXER

INSTRUCTION MANUAL

350L



 **CAUTION**

NO OIL IN ENGINE



Fill the engine with oil to the correct level before starting the engine.

SAVE THIS MANUAL !

You will need this manual for the safety warnings and precautions, operating, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

Save Warnings And Precautions

1. **KEEP WORK AREA CLEAN.** Cluttered work areas invite injuries.
2. **KEEP CHILDREN AWAY FROM WORK AREA.** Do not allow children to handle this product and to play near product.
3. **STORE IN LE EQUIPMENT.** When not in use, tools and equipment should be stored in a dry location to inhibit rust. Always lock up tools and equipment and keep out of reach of children.
4. **DO NOT USE THIS PRODUCT IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use this tool.
5. **USE EYE, HEARING, AND DUST PROTECTION.** Wear approved safety impact eye glasses, approved hearing protection, and approved dust protection when working with this product.
6. **DRESS SAFELY.** Non-skid footwear or safety shoes should be used when working with this product. Do not wear loose clothing or jewelry as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts
7. **INDUSTRIAL APPLICATIONS MUST FOLLOW OSHA REQUIREMENTS**
8. **DO NOT OVERREACH.** Keep proper footing and balance at all times to prevent tripping, falling, back injury, etcetera.
9. **STAY ALERT.** Watch what you are doing at all times. Use common sense. Do not use this tool when you are tired or distracted from the job at hand.
10. **CHECK FOR DAMAGED PARTS.** Before using this product, carefully check that this tool will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this tool. Replace or repair damaged or worn parts immediately.
11. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts. Only use accessories intended for use with this product.
12. **MAINTAIN THIS PRODUCT WITH CARE.** Keep this tool clean and dry for better and safer performance.
13. **MAINTENANCE:** For your safety, service and maintenance should be performed regularly by a qualified technician.
14. **USE THE RIGHT PRODUCT FOR THE RIGHT JOB.** There are certain applications for which this product was designed. Do not use a small tool or attachment to do the work of a larger industrial tool or attachment. Do not use this product for a purpose for which it was not intended.

Specific Product Warnings And Precautions

1. **CAUTION: NEVER PERFORM ANY SERVICES OR MAINTENANCE OR MOVE THE CEMENT MIXER WHILE IT IS RUNNING.** BEFORE PERFORMING SERVICES, MAINTENANCE, OR MOVING THE CEMENT MIXER, TURN OFF THE GAS ENGINE (PART#45) AND DISCONNECT THE SPARK PLUGWIRE TO PREVENT ACCIDENTAL STARTING.
2. **PRIOR TO USING THE CEMENT MIXER, MAKE SURE YOU READ AND COMPLETELY UNDERSTAND THIS INSTRUCTION MANUAL . AND THE GAS ENGINE MANUFACTURER'S INSTRUCTION MANUAL.**
3. **USE COMMON SENSE WHEN HANDLING GASOLINE.** Transport fuel only in approved safety containers. Do not refuel the Engine with the Engine running or while it is hot. Do not smoke when refueling the Engine. Wipe up any fuel spills on the Engine. Do not operate the Cement Mixer if there is evidence of a fuel leak. Do not operate the Cement Mixer in or around other flammable or explosive liquids or diesel. Do not operate the Cement Mixer in a poorly ventilated or enclosed area.
4. **KEEP ALL GUARDS IN PLACE AND IN PROPER WORKING CONDITION.**
5. **NEVER STICK YOUR HANDS AND/OR TOOLS INTO THE DRUM ASSEMBLY (PART#4) WHILE THE CEMENT MIXER IS IN OPERATION.**
6. **AVOID CONTACT WITH A HOT ENGINE AND ITS EXHAUST SYSTEM.** Allow the Engine to cool before performing any services or maintenance.
7. **KEEP A SAFE CLEARANCE AROUND THE CEMENT MIXER.** Keep all people (except the operator) a minimum of six feet from the Mixer during operation.
8. **DO NOT OVERLOAD THE CEMENT MIXER.** An overload may damage the equipment.

Unpacking

When unpacking, check to make sure all parts listed in the Parts Lists (page 8) are included. Please turn to place of purchase as soon as possible..

OPERATING INSTRUCTIONS

NOTE: All parts below refer to the parts listed and shown on page 8 and 9 of this manual.

1. **CAUTION:** Do not attempt to move the Cement Mixer when it is full and/or in operation.
2. Place the Cement Mixer on a solid, flat, and level surface that is capable of supporting the weight of the mixer and its load.
3. Start the Engine (part #45), and allow it to reach the appropriate operating temperature as instructed in the Engine manufacturer's operating manual.
4. **NOTE:** Filling and emptying the Drum (part #4) is best done with the Drum rotating. DO not turn off the Cement Mixer while full of cement.
5. With the Drum (part #4) operating between 20-36RPM, the Cement Mixer is now ready for the addition of the concrete mix.
6. To determine the proper amount of water, gravel, cement, and sand, refer to Figure A

SAMPLE MIX VOLUME			
MIX VOLUME (CU.FT.)	3	4	6
Cement (Bags)	1/2	2/3	1
Water (Gal.)	2-1/2	3-1/2	5-1/4
Sand (Gal./Shovels)	Q	12	18
Gravel (Gal./Shovels)	12	16	23
Mix volume may vary depending on aggregate used.			

Figure A

7. For best results, proceed as follows:
 - A. Pour the required amount of water into the Drum (part #4)
 - B. Add the required amount of gravel into the Drum.
 - C. Add the required amount of cement into the Drum.
 - D. Add the required amount of sand into the Drum.
8. Allow adequate time for the water, gravel, cement and sand to thoroughly mix.
9. To discharge the cement mix, grasp the Hand Wheel (part #51) firmly with one hand and release the Brake Handle (part #60). Then, slowly turn the Hand Wheel counterclockwise to empty the Drum (part #4).

CAUTION: To prevent accidental discharge of the cement mix, do not release the Brake Handle without holding the Hand Wheel firmly. Always make sure the Brake Handle is fully engaged after discharging the concrete mix and before refilling the Drum. (See Assy. Diagram.)
10. After discharging the cement mix, turn the Hand Wheel (part #51) clockwise to return the Drum (parts #4) to its original position. Then, make sure to fully engage the Brake Handle (part #60).
11. Repeat Steps #5-9 if more cement mix is required.
12. When finished, make sure to thoroughly clean the inside of the Drum (part #4).

MAINTENANCE AND CLEANING

1. **CAUTION:** Never perform any services or maintenance on the Cement Mixer while it is running. Before performing services or maintenance, turn off the engine and disconnect the spark plug wire to prevent accidental starting.
2. Before each use, inspect the general condition of the Cement Mixer. Check for loose screws, misalignment, binding of moving parts, loose or broken parts, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn off the Cement Mixer immediately and have the problem corrected before further use. Do not use damaged equipment.
3. Retighten the V-belt (part #46) after the first 24 hours of use. The V-belt should be able to be pressed in no more than 1/4" .(See Assy. Diagram.)
4. Periodically, recheck all nuts, bolts and screws for tightness.
5. Thoroughly clean the Cement Mixer at the end of each day's operation. The Drum Assembly (part #4) may be scoured for approximately two minutes, using a gravel and water mixture. Then, discharge the gravel/water mixture and hose down the Drum Assembly inside and out. (See Assy. Diagram.)
6. Dried cement mix should be scraped out of the Drum (part #4). Do not beat on the Drum with a shovel or other tools to break up accumulations of dried cement mix, as damage to the Cement Mixer may result.
7. Do not pour or spray water over the Engine (part #45). (See Assy. Diagram.)
8. Daily check the oil level in the Engine (part #45). Refer to the Engine manufacture's manual/for the type and level of oil recommended, and all other Engine service and maintenance instructions.
9. Periodically, inspect the Speed Converter Assembly (part #19) and the Wheel Bearings (part #77) for proper lubrication. (See Assy. Diagram.)

Please Read The Following Carefully

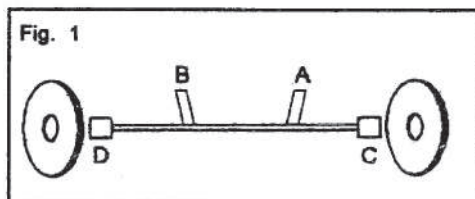
The manufacturer and/or distributor has provided the parts diagram in this manual as a reference tool only. Neither the manufacturer nor distributor makes any representation or warranty of any kind to the buyer that he or she is qualified to make any repairs of the product. In fact, the manufacturer and/or Distributor expressly states that all repairs and parts replacements should be undertaken by certified and licensed technicians and not by the buyer. The buyer assumes all risk and liability arising out of his or her repairs to the original product or replacement parts thereto, or arising out of his or her installation of replacement parts thereto.

ASSEMBLY OF THE CEMENT MIXER

This mixer is simple to assembly.
Pls follow the following steps after you have finished unpacking and checking.

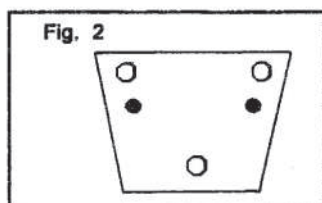
STEP 1

Attach the two wheels (part # 78) to the Wheel Shaft (part # 71) with bolts and nuts supplied. Pls refer to Fig 1.



STEP 2

Attach the Wheel Shaft and Wheel assembly to the main body by bolting part A and B. Pls refer to Fig 1.



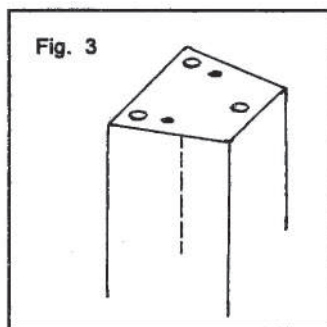
STEP 3

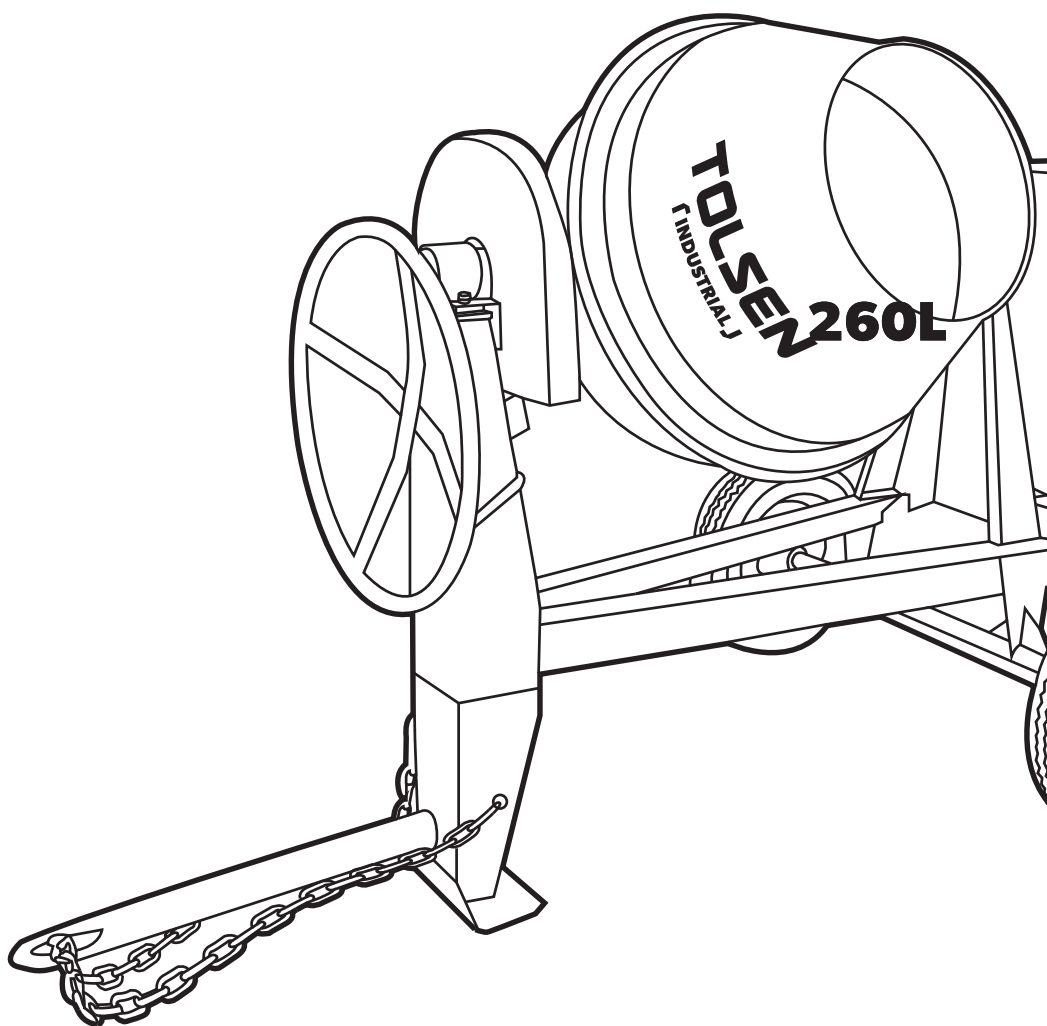
Attach the Leg (part # 67) to the front of the Frame Assembly (part # 63) with 3 nuts. Make sure the bolts in the leg align to the holes in the end of Frame Assembly.

Pls refer to FIG 2 and FIG 3.

Remarks : Pls make sure to tighten all nuts with enough strength.

A shop crane may be needed during the assembly.





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