



INSTRUCTIONS MANUAL

INDUSTRIAL BLENDERS

MODELS

L - 02/04/06/08/10HD



METALÚRGICA SIEMSEN LTDA.

Rua Anita Garibaldi, nº 262 – Bairro: São Luiz – CEP: 88351-410
Brusque – Santa Catarina – Brasil
Fone: +55 47 3255 2000 – Fax: +55 47 3255 2020
www.siemsen.com.br - comercial@siemsen.com.br



E-mail: at@siemsen.com.br

- ALÉM DESTAS MÁQUINAS, FABRICAMOS UMA LINHA COMPLETA DE EQUIPAMENTOS. CONSULTE SEU REVENDEDOR.
- ESTE PRODUTO CONTA COM ASSISTÊNCIA TÉCNICA, REPRESENTANTES E REVENDEDORES EM TODO TERRITÓRIO NACIONAL.
DEVIDO À CONSTATANTE EVOLUÇÃO DOS NOSSOS PRODUTOS, AS INFORMAÇÕES AQUI CONTIDAS PODEM SER MODIFICADAS SEM AVISO PRÉVIO.

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IMPORTANT
Always unplug the machine when emergency cases arise.

4.7 Advice

Electrical or mechanical maintenance must be done by qualified personal for such operation.

Person in charge has to be sure that the machine is under TOTAL SAFETY conditions when working.

5 Analysis and Problems Solving

5.1 Problem, causes and solutions

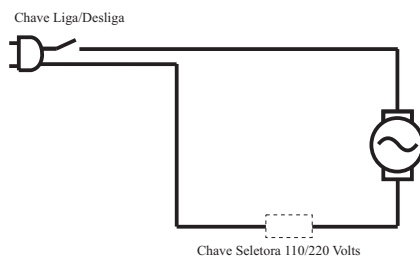
The Heavy Duty Industrial Blenders were designed to operate with the need of minimum maintenance but the natural wearing caused by longer use of the equipment may occasionally cause some malfunctions.

If such problem occurs with your Blender refer to Table 02 in which the most common situations are listed with recommended solutions.

Table 02

| Problems | Causes | Solutions |
|--|--|--|
| * The machine does not turn on. | * Lack of power. * Problem in the electric circuit of the machine. interno ou externo da máquina. | * Check if machine is plugged in and if there is power in the power supply source. * Call technical assistance. |
| *Cup is leaking. | * Damaged seal. | * Call technical assistance. |
| * The machine turns on but the Motor turns slowly. | * Defected motor capacitor. | * Call technical assistance. |

5.2 Electrical Diagram Mod. L-02/04/06/08/10HD



SUMMARY

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1. Introduction

1.1 Safety

The Heavy Duty Industrial Blenders are machines simple to use and to clean. However for your safety read the following instructions in order to avoid accidents:

- 1.1.1 Always unplug the machine when cleaning, servicing or when any other operation is needed.
- 1.1.2 Never use tools that do not belong to the machine during operation.
- 1.1.3 Before using the machine check if Cup N°02 (Pic.01) is properly fitted in its position.
- 1.1.4 Never throw water directly to the machine.
- 1.1.5 Keep hands off turning parts.
- 1.1.6 Do not operate the machine wearing wet clothes or wet shoes.
- 1.1.7 Before operating the machine be sure it is grounded properly.
- 1.1.8 Take good care of this manual and have it handy for use at any time.

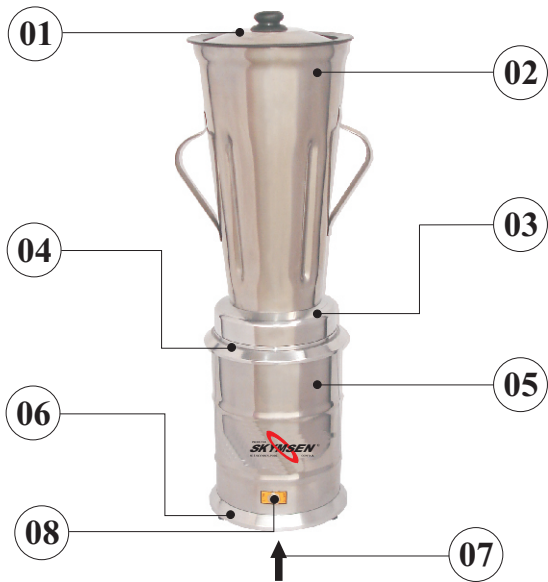


1.2 Main Components

All components are made with carefully selected materials, in accordance with Siemens experience and standard testing procedures.

Picture - 01

- 1-Lid
- 2-Cup
- 3-Cup Flange
- 4-Motor Support Flange
- 5-Motor Housing
- 6-Base
- 7-Voltage Selector Switch110/220V
- 8-On/Off Switch



4.3 Routine Inspection

4.3.1 Advice

When checking the tension of the belts or chains, DO NOT introduce your fingers between the belts and the pulleys and nor between the chain and the gears.

4.3.2 Precautions

Check if motors and sliding or turning parts of the machine produce abnormal noises.

Check the tension of the belts and chains and replace the set when belt or chain show signs of being worn out.

When checking tensions of belts or chain DO NOT introduce your fingers between belts and pulleys, nor between the chains and gears.

Check protections and safety devices to make sure they are working properly.

4.4 Operation

4.4.1 Advice

Be sure your hair is not loose in order to avoid getting caught by turning parts which could lead to a serious accident. Tie your hair well up and/or cover your head with a scarf.

The operation performed by not trained or skilled personnel shall be forbidden.

Never touch turning parts with your hands or in any other way.

NEVER operate machine without all original safety devices under perfect conditions.

4.5After Finishing The Work

4.5.1 Precautions

Always TURN THE MACHINE OFF by removing the plug from the socket before cleaning the machine. Never clean the machine unless it has come to a complete stop. Put all components back to their functional positions before turning it ON again. Check level of oil. DO NOT place your fingers in between belts and pulleys nor chains and gears.

4.6 Maintenance

4.6.1 Danger

Any maintenance with the machine in working situation is dangerous. TURN IT OFF BY PULLING THE PLUG OFF THE SOCKET DURING MAINTENANCE.

4.1.3 Advices

- In case of power shortage, immediately turn the machine OFF.
- Use recommended or equivalent lubricants, oils or greases.
- Avoid mechanical shocks as they may cause failures or malfunction.
- Avoid penetration of water, dirt or dust into mechanical or electrical components of the machine.
- DO NOT modify original characteristics of the machine.
- DO NOT remove, tear off or maculate any labels stuck on the machine. If any label has been removed or is no longer legible, contact your nearest dealer for replacement.

READ CAREFULLY AND WITH ATTENTION THE SAFETY OR OPERATION INSTRUCTIONS LABELS DISPLAYED ON THE MACHINE, AS WELL AS THE INSTRUCTION MANUAL AND THE TECHNICAL CHARACTERISTICS WRITTEN INSIDE.

4.2 Safety Procedures and Notes Before Switching Machine ON

IMPORTANT

Carefully read ALL INSTRUCTIONS of this manual before turning the machine ON. Be sure to be familiar with the instructions and that you have well understood all information contained in this manual. If you have any question contact your supervisor or your nearest Dealer.

4.2.1 Danger

An electric cable or electric wire with damaged jacket or bad insulation could cause electrical shocks as well as electrical leak. Before use, check conditions of all wires and cables.

4.2.2 Advices

- Be sure ALL INSTRUCTIONS in this manual have been thoroughly understood. Every function and operational procedure have to be very clear to the operator. Contact your nearest Dealer for further questions.
- Any manual command (switch, button or lever) shall be given only after being sure it is the correct one.

4.2.3 Precautions

- The electric cable has to be compatible with the power required by the machine. Cables touching the floor or close to the machine need to be protected against short circuits.
- Oil reservoir has to be full up to the required level as indicated. Check level and add oil if necessary.

1.3 Technical Characteristics

Table – 01

| Characteristics | Unit | L-02HD | L-04HD | L-06HD | L-08HD | L-10HD |
|-----------------|--------|-------------|-------------|-------------|-------------|-------------|
| Voltage | [V] | 110/220 | 110/220 | 110/220 | 110/220 | 110/220 |
| Frequency | [Hz] | 50 ou 60(*) | 50 ou 60(*) | 50 ou 60(*) | 50 ou 60(*) | 50 ou 60(*) |
| Power Rating | [HP] | 0,33 | 0,5 | 0,5 | 0,5 | 0,5 |
| Consumption | [kW/h] | 0,25 | 0,37 | 0,37 | 0,37 | 0,37 |
| Height | [mm] | 610 | 655 | 745 | 760 | 850 |
| Width | [mm] | 200 | 245 | 245 | 260 | 270 |
| Depth | [mm] | 190 | 190 | 190 | 230 | 230 |
| Net Weight | [kg] | 7 | 9 | 9,20 | 9,40 | 9,60 |
| Shipping Weight | [kg] | 8 | 10 | 10,30 | 10,50 | 10,70 |
| Rotation | [rpm] | 3500 | 3500 | 3500 | 3500 | 3500 |

(*) Frequency will be only the one indicated on motor characteristics label.

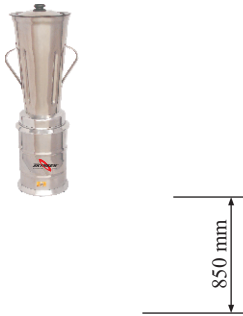
2. Installation and Pre Operation

2.1 Installation

- The Heavy Duty Industrial Blender is to be installed onto a leveled surface approximately 850mm high.
- Before plugging in the machine check the voltage of the power supply: 110 or 220 V. Then adjust the machine voltage according to the power supply voltage using the Voltage Selector Switch N°07 (Pic.01) located at the bottom of the machine. Grounding is mandatory.

2.2 Pre Operation

Picture - 02



IMPORTANT

When installing the Cup N°02 (Pic.01) in the machine be sure it is perfectly fitted. The Cup can be fitted in the machine in any position; which guarantees a perfect operation.

- First of all check if the Heavy Duty Industrial Blender is firm in its position. It is recommended to work with the machine in a flat surface with approximately 850mm of height.
- Before using the machine all parts that get in contact with food must be washed with running water and neutral soap. To clean your Blender read item 3.3 Cleaning on this Manual (pag.4).

3. Operation

3.1 Starting

IMPORTANT

Before removing or installing the Cup N°02 (Pic.01) be sure the motor has completely stopped in order to avoid coupling premature wear out.

The Blender is activated by turning the On/Off Switch N°08 (Pic.01) located in the Motor Housing N°05 (Pic.01) to ON position.

3.2 Operating Procedures

The Heavy Duty Industrial Blender work at high speed, approximately 3.500 rpm. To feed it proceed as follows:

- 1 – Remove the Lid N°01 (Pic.01).
- 2 – Put product inside the Cup N°02 (Pic.01) with the machine switched OFF.
- 3 – Place the Lid N°01 (Pic.01) back on top of the Cup and switch the machine ON.

IMPORTANT

The processing time depends on the kind of product. It is not recommended to blend products without the addition of any liquid; otherwise it will overheat and damage the Cup seal.

IMPORTANT

NEVER SWITCH THE MACHINE ON WITHOUT LOAD IN IT BECAUSE IT WILL CAUSE IRREPARABLE DAMAGES.

3.3 Cleaning

IMPORTANT

Always unplug machine before cleaning. Before removing the Cup be sure the motor has completely stopped. When washing inside the Cup be careful with the blade.

The Heavy Duty Industrial Blenders were developed for easy cleaning. Wash the removable parts with running water and neutral soap and wipe up the others with a damp cloth.

Follow the below instructions for washing removable parts:

- 3.3.1 Unplug the machine.
- 3.3.2 Remove the Lid N°01 first then the Cup N°02 (Pic.01).
- 3.3.3 Wash all removable parts with running water and neutral soap.
- 3.3.4 To reinstall them, follow the above order inversely.

IMPORTANT

When washing inside the Cup be careful with the blade as it has sharp edges.

4. General Safety Practices

The following safety instructions are addressed to both the operator of the machine as well as the person in charge of maintenance. The machine has to be delivered to the operator in perfect conditions of use by the Distributor to the user. The user shall operate the machine only after being well acquainted with the safety procedures described in the present manual. **READ THIS MANUAL WITH ATTENTION.**

4.1 Basic Operation Practices

4.1.1 Dangerous parts

Some parts of the electric devices are connected to high voltage points. These parts when touched may cause severe electrical shocks or even be fatal.

Never touch commands such as buttons, switches and knobs with wet hands, wet clothes and/or shoes. By not following these instructions operator could be exposed to severe electrical shocks or even to a fatal situation.

4.1.2 Warnings

The operator has to be well familiar with the position of ON/OFF Switch to make sure the Switch is easy to be reached when necessary. Before any kind of maintenance, physically remove plug from the socket.

Provide space for a comfortable operation thus avoiding accidents. Water or oil spilled on the floor will turn it slippery and dangerous. Make sure the floor is clean and dry.

Before giving any manual command (switch, buttons, turn keys or lever) be sure the command is the correct one. Check this manual for further details if necessary.

Never use a manual command (switch, buttons, lever) unadvisedly. If any work is to be made by two or more persons, coordination signs will have to be given for each operation step. Every step of the operation shall be taken only if the sign has been made and responded.