

Instruction Manual



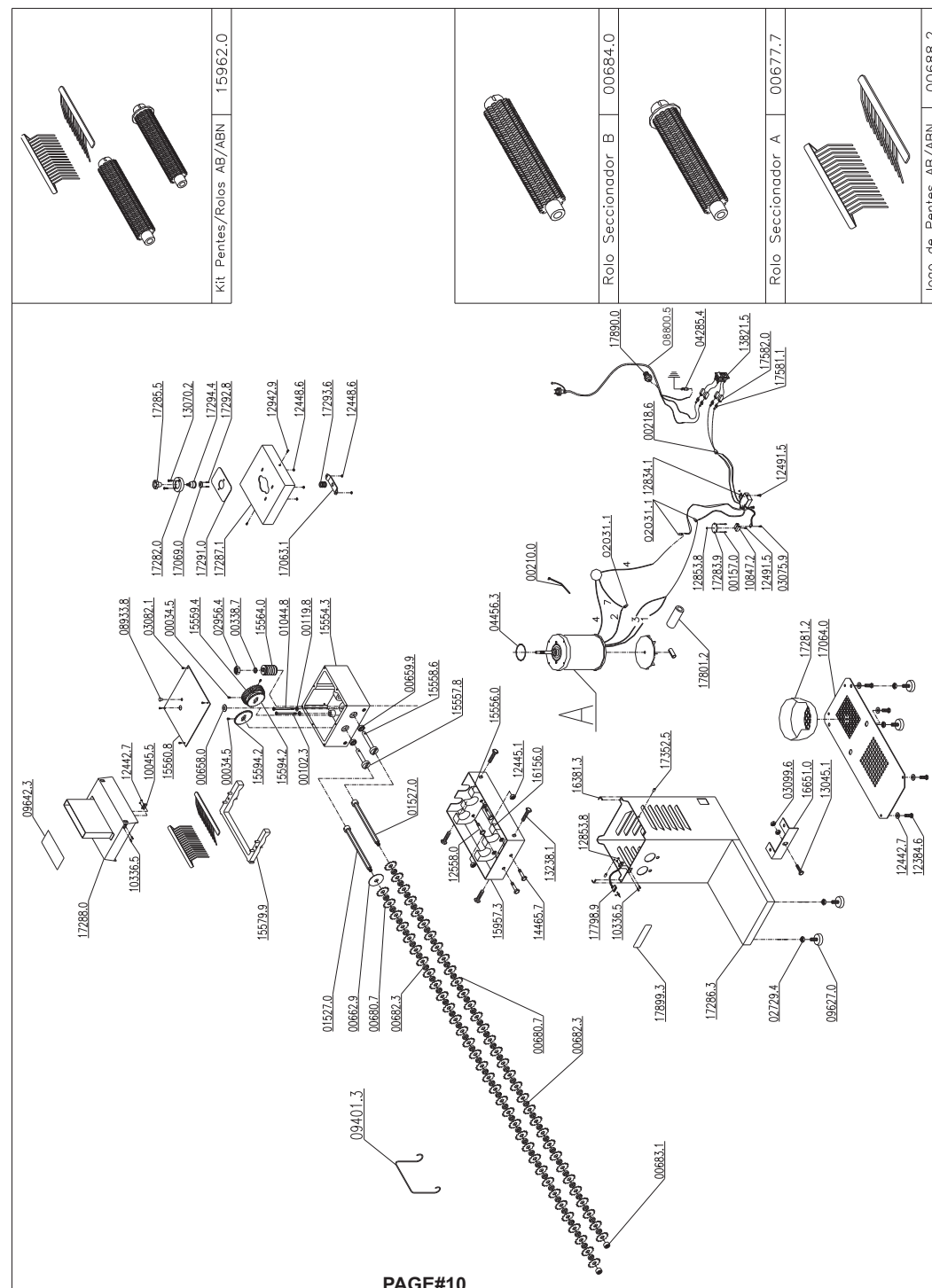
Meat Tenderizer ***Model***

ABN-SS

Summary

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12 Exploded Drawing



11 Spare Parts List

| CODE | DESCRIPTION | U.M. | CODE | DESCRIPTION | U.M. |
|---------|-----------------------------|------|---------|-----------------------------|------|
| 00034.5 | PFS ASC UNC1/4"x3/8" F | CE | 13045.1 | PFS M6x40 DIN 933 ZB | CE |
| 00102.3 | PFS SEX UNC5/16"x3/4 RTZB | CE | 13070.2 | PFS M6x25 DIN 933 INOX | CE |
| 00119.8 | ARR L 5/16" ZB | CE | 13238.1 | PFS M8x15 DIN 933 INOX | CE |
| 00157.0 | REBITE PRESSAO AD-450-S | MI | 13821.5 | CHAVE TECLA C/PROT.PLAST. | PC |
| 00210.0 | ABRACADEIRA K22 NATURAL | CE | 14465.7 | PFS M8x25 DIN 933 INOX | CE |
| 00218.6 | PASSADOR FIO MOLDE 092231 | PC | 15554.3 | CABECOTE | PC |
| 00338.7 | ARR P 1/2" ZB | CE | 15556.0 | MANCAL DOS ROLOS ABL/ABK | PC |
| 00658.0 | ARRUELA DE FELTRO AB/ABN-SS | PC | 15557.8 | EIXO CONDUZIDO C/FURO | PC |
| 00659.9 | RETENTOR 00790BR*(F.0165) | PC | 15558.6 | EIXO CONDUTOR C/FURO | PC |
| 00662.9 | LAMINA LISA AB/ABN-SS | PC | 15559.4 | COROA ABL | PC |
| 00677.7 | ROLO SECCIONADOR A-AB/N | PC | 15560.8 | TAMPA DO CABECOTE | PC |
| 00680.7 | LAMINA SECCIONADORA AB/N | PC | 15564.0 | PARAFUSO-SEM-FIM ABK/ABL | PC |
| 00682.3 | SEPARADOR LAMINAS | PC | 15579.9 | SUORTE PENTES C/REBITE | PC |
| 00683.1 | PORCA EIXO ROLO SECC | PC | 15594.2 | ENGRENAGEM RETA | PC |
| 00684.0 | ROLO SECCIONADOR B-AB/N | PC | 15957.3 | SUORTE DOS ROLOS | PC |
| 00688.2 | JOGO DE PENTES AB/ABN-SS | PC | 15962.0 | KIT PENTES/ROLOS AB/ABN-SS | PC |
| 01044.8 | PFS SEX UNC5/16"x5/8 RTZB | CE | 16156.0 | MANCAL DOS ROLOS D | PC |
| 01527.0 | EIXO ROLO SECCIONADOR AB | PC | 16381.3 | PERFIL DE ACABAMENTO | PC |
| 02031.1 | CAPINHA DE NYLON CN-4472 | MI | 16651.0 | ESTABILIZADOR | PC |
| 02729.4 | PCA M8 DIN 934 ZB | CE | 17063.1 | PERFIL DE RETENCAO | PC |
| 02956.4 | PCA SEX UNF 1/2" ZB | CE | 17064.0 | CHAPA DO FUNDO | PC |
| 03075.9 | PFS M3x4 DIN 84 ZB | CE | 17069.0 | CHAPA DE TORCAO | PC |
| 03082.1 | PFS M4x10 DIN 84 ZB | CE | 17281.2 | TAMPA DEFLETORA ABN-SS-SS | PC |
| 03099.6 | PCA M6 DIN 934 ZB | CE | 17282.0 | GUIA DE TRAVAMENTO | PC |
| 04285.4 | TERM. PRE-ISOL.AN-2435 | MI | 17283.9 | SUORTE DO DISSIPADOR | PC |
| 04456.3 | ANEL O'RING 61x54x3,5mm | PC | 17285.5 | MANIPULO M8x5mm | PC |
| 08933.8 | BUJAO DE OLEO BO 3025-1/4 | PC | 17286.3 | CS ESTRUTURA | PC |
| 09401.3 | EXTRATOR DO ROLO CORTADOR | PC | 17287.1 | TAMPA | PC |
| 09627.0 | PE BORRACHA M8x15mm F-305 | PC | 17288.0 | CS TAMPA DE PROTECAO | PC |
| 09642.3 | ETIQ.ATENCAO CUIDADO INGL | CE | 17291.0 | CS SUORTE DA MOLA | PC |
| 10045.5 | IMA ENCAPSULADO SM1000 | PC | 17292.8 | PINO ELAST. 4x8 DIN 1481 | CE |
| 10336.5 | PFS M3x10 DIN 963 INOX | CE | 17293.6 | MOLA DO MANIPULO | PC |
| 10847.2 | DISSIPADOR DE ALUM.BR 812 | PC | 17294.4 | CALCO DO MANIPULO | PC |
| 12384.6 | PFS M6x12 DIN 933 INOX | CE | 17352.5 | DISTANCIADOR | PC |
| 12442.7 | ARR.L.A6,4 DIN 125 INOX | CE | 12937.2 | MOTOR 0,5CV 50Hz BEN01213 | PC |
| 12445.1 | PCA M8 DIN 934 INOX | CE | 17581.1 | TERM.POSITIV LOCK 0,5A1,5 | MI |
| 12448.6 | PCA M6 DIN 934 INOX | CE | 17582.0 | CAPA P/TERMINAL FEMEA | MI |
| 12491.5 | PFS M3x10 DIN 84 INOX | CE | 17798.9 | REED SWITCH COMPLETO-ABN-SS | PC |
| 12558.0 | PFS M8x45 DIN 933 INOX | CE | 17801.2 | ESPAGUETI DIAM.12 | PC |
| 12834.1 | UNID.CONTR.P/1 INTER.-UC1 | PC | 17890.0 | PRENSA CABO NPT 1/2"C./R8 | PC |
| 12853.8 | PCA M3 DIN 934 INOX | CE | 08800.5 | CB.3x1,0mm2 C/PLUG 3PC | PC |
| 12942.9 | PFS M3x16 DIN 84 INOX | CE | 17899.3 | ETIQ.IDENTIF.MOTOR/RESIST | PC |

NOTICE TO OWNERS AND OPERATORS

The ABN-SS Meat tenderizer is designed to tenderize food products safely and efficiently. Unless the operator is properly trained and supervised, however, there is the possibility of a serious injury. It is the responsibility of the owner to assure that this machine is used properly and safely, strictly following the instructions contained in this Manual and any requirements of local law.

1 MAIN PRECAUTIONS

The ABN-SS can be a potentially dangerous machine if incorrectly used. It must be used and handled with care.

NEVER put your hands into the input opening of Cover Guard No.01 (Picture - 03).

BE careful when handling cutting cylinders No.03 (Picture - 02), they have sharp blades that could cause serious irreparable damages.

ALWAYS turn off the machine and disconnect it from power source before cleaning, and maintenance.

OPERATION, cleaning and any other service must be done by experienced or trained operators.

NEVER use any kind of tools to help food loading inside the input opening.

NEVER take off Cover Guard without being sure that cutting cylinders are completely still.

NEVER spray water or other liquid substances directly at the machine.

ALWAYS install equipment in working area with adequate light and space away from children and visitors.

NEVER operate without all warning labels attached and owner/operator manual available to operator.

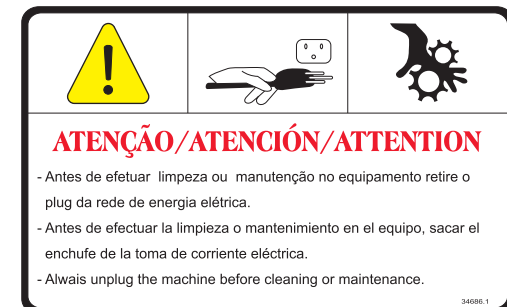
NEVER leave unattended while operating.

ALWAYS ground machine properly.

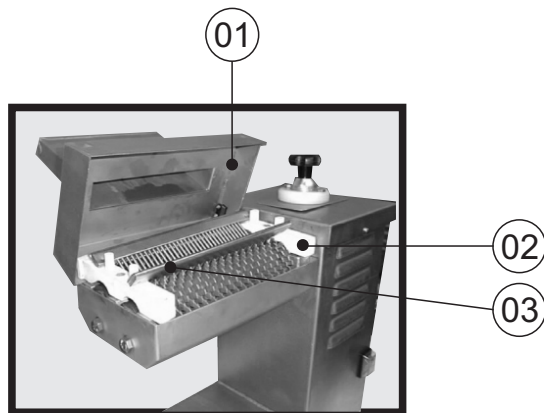
IMPORTANT: The ABN-SS is a silent machine. When not in use do not introduce anything into the input opening without making sure the machine is turned off.

2 MAIN COMPONENTS

The Tenderizer ABN-SS is equipped with a safety interlock switch which function is to stop motor automatically when the cover guard is lifted. The machine also incorporates a motor overload protection switch, located at the back, to stop the motor automatically when the operation results in overload. To restart the motor press the switch slightly. See the ABN-SS main components on page 3.

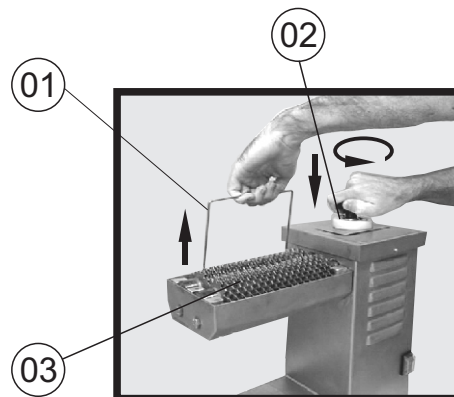


Picture - 01



- 01 - Cover Guard.
- 02 - Combs Support.
- 03 - Comb.

Picture - 02 10 GENERAL ADVICES



- 01 - Cylinder Extractor.
- 02 - Cylinders Knob
- 03 - Cutting Cylinders.

ALWAYS turn machine off before cleaning and maintenance.

PROVIDE enough space around machine to avoid accidents.

ALWAYS keep the floor dry. Wet floors may cause slippings.

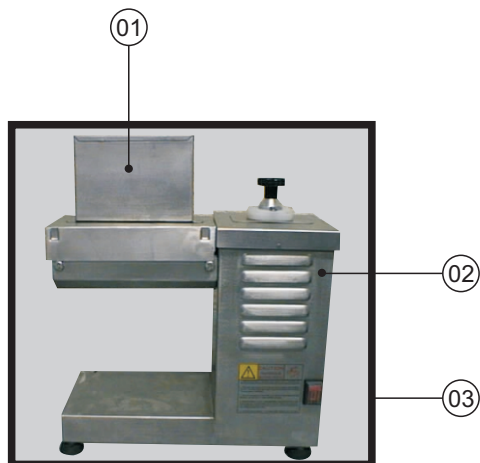
ALWAYS turn machine off in case of power supply lack.

NEVER let dust or water to get into electrical and mechanical components of the machine.

DO NOT modify original features of the machine.

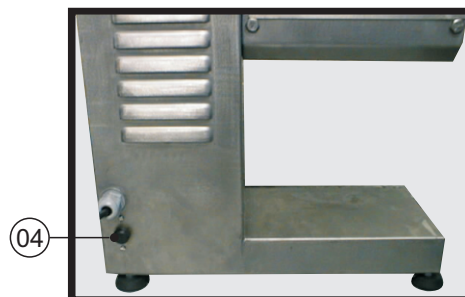
DO NOT take out nor tear off any safety or identification label.

Picture - 03



- 01 - Cover Guard.
- 02 - Motor Housing.
- 03 - Switch ON/OFF.
- 04 - Motor-Overload Protection Switch.

Picture - 04



7 CLEANING

Always disconnect the machine from power source before cleaning.

To remove the parts to be washed follow the inverse steps of part 6.2 of this manual carefully.

Wash all removable parts of the machine with warm water and neutral soap and wipe them dry.

Clean the body of the machine with a damp clean cloth and wipe dry.

Never use tools like knives, forks and others to help removing residues from the cutting cylinders.

8 MAINTENANCE

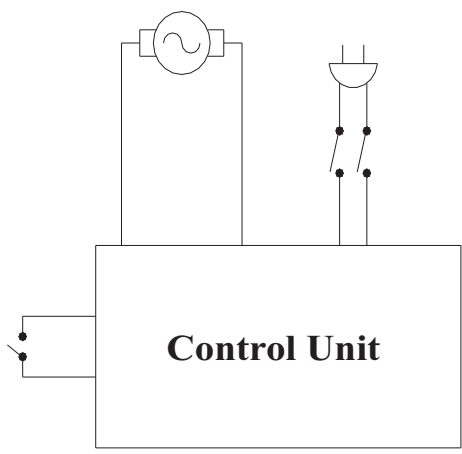
The machine is supplied with SAE 140 oil and non-toxic sintetic white grease in the bearings of the cutting cylinders.

The oil is sufficient for the machine's entire life.

The bearings must be kept lubricated with non-toxic sintetic white grease.

MACHINE DESIGN AND CHARACTERISTICS MAY BE CHANGED WHITHOUT PREVIOUS NOTICE, AFTER THE CATALOGUE PRINTING DATE.

9 ELECTRICAL DIAGRAM



3 TECHNICAL DATA

Table - 01

| Technical Data | Units | ABN-SS |
|----------------|--------|--------|
| Voltage | [V] | 220 |
| Frequency | [Hz] | 50 |
| Rating | [cv] | 0,5 |
| Consumption | [kW/h] | 0,4 |
| Height | [mm] | 500 |
| Width | [mm] | 405 |
| Depth | [mm] | 190 |
| Net Weight | [kg] | 28.5 |
| Gross Weight | [kg] | 30,5 |

4 INSTALLATION

The ABN-SS must be placed on a leveled, non-skid working surface with a recommended height of 850mm.

The voltage of the tenderizer must be the same as the power supply voltage.

Grounding wire must always be connected.

5 PRE OPERATION

Check if the ABN-SS is firm on its position.

Before use wash the cutting cylinders No.03 (Picture - 02) with warm water and neutral soap and wipe them dry.

Always use combs No.2 (Picture - 06), they prevent food load from getting stuck in the cutting cylinders and provide a smooth operation.

IMPORTANT: The combs must always be used during tenderizing operation.

6 OPERATION

6.1 Feeding

Turn on the machine using ON/OFF switch No.03 (Picture - 03).

For feeding hold the food product above the input opening of the cover guard and let it pass through the opening keeping your hands away from it as shown on Picture - 05 below.

Pass only one slice of meat through the opening at a time.

Tenderizes with 20cm length (about 8" and 1,3cm thickness (about ½"))

Picture - 05



6.2 Cylinders Assembly

Press groove knob No.02 (Picture - 02) down and turn it until one of the grooves is in the position as shown on Picture - 07.

Be careful, the cylinders must not swap position between themselves, otherwise they will not fit into the casing, so observe their position before disassembling them.

Fit the corresponding cutting cylinder in the groove positioned as explained above.

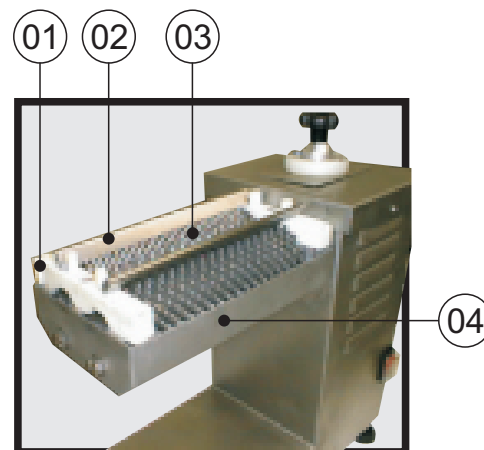
Use the same procedure to fit the other cutting cylinder.

Procedure on how to remove Cutting Cylinders: Remove Cover Guard No.01 (Picture 01) and both Combs No.03 (Picture 01). Press groove Knob No.02 (Picture 02) down and turn it until both Cylinder's grooves No.01 (Picture 07) are in the vertical position. Fit Cylinder Remover No.01 (Picture 02) in between the blades of one Cylinder No.03 (Picture 02) and pull it up slowly. Repeat this procedure to remove the second Cylinder.

Then place combs support No.01 (Picture - 06) in the cylinders support No 4 (Picture 06) followed by the combs No.02 (Picture - 06) and finally place the cover guard No.01 (Picture - 01).

IMPORTANT: Place the combs support in its right position otherwise the cover guard No.01 (Picture - 01) will not fit properly.

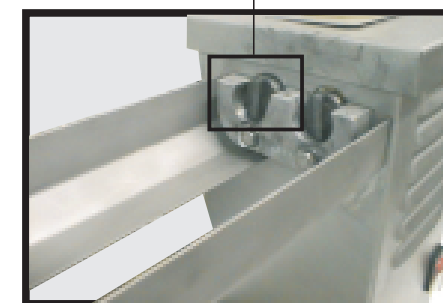
Picture - 06



- 01 - Combs Support.
- 02 - Combs.
- 03 - Cutting Cylinders.
- 04 - Cutting Cylinders Support.

Picture - 07

Detail A



01 - Grooves.

01

Detail A

