

MENEGOTTI TECHNICAL MANUAL CONCRETE MIXER 400L RENTAL - PROFESSIONAL DISASSEMBLED

QR-Code:



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www.sites.google.com/view/menegotti-engenharia-docs

Attention:

Before operate **Menegotti** equipment, read this **technical manual**, it self will inform and instruct the operator about the operation. By the way, you avoid possible working accidents and early maintenance on at the equipment.



PROFESSIONAL



RENTAL

MENEGOTTI[®]
CONSTRUCTION

Congratulations, you have just purchased a Menegotti product!

With the highest quality, projected and built especially to serve your needs.

This manual was elaborated to provides the informations and key instructions to use and maintain our product, in addition presents their technical characteristics.

Before use the product for the first time, read and pay attention at the informations in this manual.

The product durability only depends the way you treat it in service (operation) and the satisfactory working is consequence of yours regular work carefully.

Menegotti is prepared to offer you all technical assistance, and attend all your needs about replacement parts.

Welcome, you are part of the huge Menegotti “customers family”.

After sales Departament
and Technical Assistance MENEGOTTI.

Attention: For better comodity, store and keep this manual in a properly spot so it can be easily checked.

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Menegotti Group

Menegotti is reference in the development of solutions in machines and tools for the Construction machinery, Handling and Lawn | Garden Segments.

A Brazilian company, present in more than 40 countries, has its headquarters in Jaraguá do Sul, Santa Catarina, units in Brazil and in the United States.

With more than 80th years of history, it is in the fourth generation of consistent and successful family management.

National leader in sales of concrete and cement mixers, it stands out in the resale and rental market.

Through its Innovation Program, it fosters creativity and competitiveness, with disruptive actions and partnerships, aimed at continuous professional and business growth.

With an organizational culture that values and encourages its constant professional and personal development, Menegotti is active in sustainable projects, which make its purpose of contribute “to build a better and more sustainable world”, a reality.



The Product

The concrete mixer 400I was designed for heavy civil construction work . It is composed of a drum with a mixing capacity of up to 310 liters. The drum is moved by a drive (electric/diesel/Petrol), which is activated by a driven /drive system with a “V” belt . The unloading system is manual.

- **With the aim of constantly improving their equipment, Menegotti reserves the right to change the features of the product without notice.**

Safety Informations

Note: Anyone who performs any type of operation with this equipment must read this manual and the safety instructions.



- Before using this equipment, carefully read this manual and follow the Manufacturer`s instructions, such as how to reduce the risk of accidents in operation.
- It is expressly prohibited to remove or alter any safety device or characteristic, should this occur MENEGOTTI will not be held responsible.
- Use the equipment according to the instructions in this manual.
- In the case of damaged or missing pieces, contact MENEGOTTI by phone or WhatsApp at +55 (47) 3275 8000 for replacement of same.
- With the machine turned off, conduct a daily inspection of the machine parts . In the case of problems, immediately contact the MENEGOTTI authorized service.
- Maintain a limited area exclusive for working with the equipment, always keeping the place clean, without obstructions and with good lighting;
- The operator must be trained or qualified to operate this equipment;
- Do not use clothing that is too loose and which might get caught in the machine.
- Always use gloves, safety goggles and ear protection.
- The engines must be installed by qualified professionals.



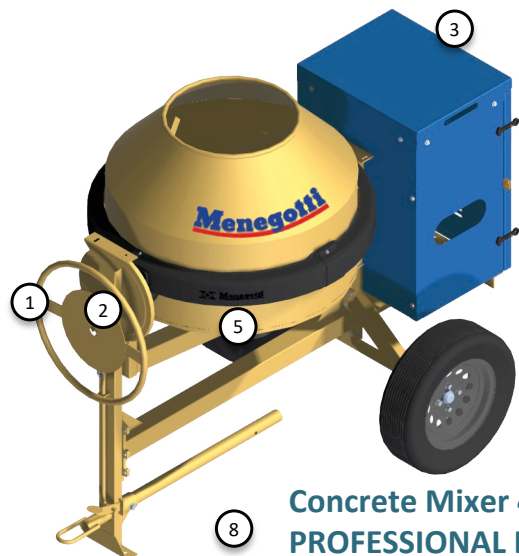
- Perform the maintenance recommended in this manual with qualified people and within the stipulated periods.
- Inspect all electrical extensions, mainly for cuts, cable friction and broken connections;
- Never use extensions that are not in good condition.
- Never use wet extensions or operate in wet environments (e.g. Pools of water).
- When cleaning the equipment, never throw water on the engine.
- Whenever performing maintenance on this equipment, disconnect the power cable from the source..
- Avoid contact with hot surfaces.
- Before performing any activity or maintenance, first let the engine cool down.
- Avoid contact with rotating parts.

Technical Specifications

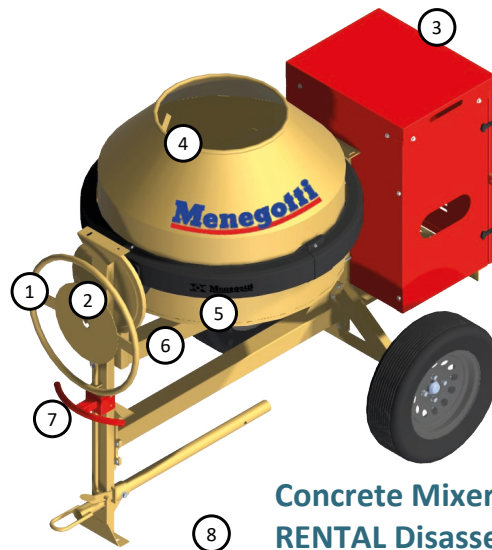
SPECIFICATIONS	400L PROFESSIONAL	400L RENTAL	ENGINES	
DRUM VOLUME	400 Liters		PETROL	HONDA 5,5HP
WET MIX INPUT	270 Liters			TOYAMA 5,5HP
DRY MIX INPUT	310 Liters			BRANCO 5,5HP
NUMBER OF CYCLES / HOUR	15 Cicles		DIESEL	TOYAMA 4,7HP
HOURLY PRODUCTION	4,65m³			BRANCO 5,0HP
DRUM ROTATION	30RPM (60Hz) / 28RPM (50Hz)		ELECTRIC	2CV 4P 110/220V 50/60HZ
ENGINEER BOX	ELECTRIC			2CV 4P 220/380V 50/60HZ
	COMBUSTION			
BELT	VARY ACCORDING TO THE ENGINE			
WEIGHT WITHOUT ENGINE	225kg	230kg		
DIMENSIONS (CXLXA) mm	1836 X 1012 X 1461			
WHEELS	PNEUMATIC WHEEL			

* Consult availability and instruction for changing switch selector to electrical supply.

Main Differences



**Concrete Mixer 400L
PROFESSIONAL Disassembled**



**Concrete Mixer 400L
RENTAL Disassembled**

POS.	CONCRETE MIXER	400L PROFESSIONAL	400L RENTAL
1	FLYWHEEL PLATE	THICKNES 4,75MM	THICKNES 6,35MM
2	STEERING WHEEL LOCK	THICKNES 3,75MM	THICKNES 4,75MM
3	DIFFERENTIAL PAINTING	BLUE	RED
4	DRUM	-	CONTOUR WITH WELD
5	DRUM CORPS	THICKNES 1,90MM	THICKNES 2,66MM
6	STEEL YOKE	-	WITH REINFORCEMENTS
7	TAGGER	-	WITH TAGGER
8	WARRANTY	12 MONTHS	18 MONTHS

Main Parts

CONCRETE MIXER 400L	
1	DRUM
2	STEEL YOKE
3	ENGINE BOX
4	LARGER COLUMN
5	SMALLER COLUMN
6	CHASSIS
7	WHEEL
8	GEAR PROTECTION
9	HANDLE



Equipment supplied with Electric Engine

- Before switch in your concret mixer, check if the supply voltage corresponds to the voltage indicated on the identity plate of the electric engine. Switching on the engine when connected to different voltage from the voltage indicated on the identity plate of the electric engine will result in damage to the engine;
- For without voltage selector equipment, contact the authorized service prior to any change.
- The engine drive in a different voltage voltage on the electric engine plate resulting in engine damage;
- Make sure circuit breakers, electric cables, sockets, grounding are compatible with the specified engine;
- Accepted voltage variation must not exceed variations above or below 10%, otherwise running failures may occur or even burning of the engine;
- For use of an extension electric, we recommend the table:

CONCRETE MIXER 400L			
Extension electric	0 a 20m	20 a 30m	above de 30m
Diameter of the electric wire	4,0 mm²	6,0 mm²	not recommended

Equipment supplied without Electric Engine

The engine installation, electrical appliances and their installations and grounding must be made in accordance with current standards in the region and accompanied by a responsible qualified function. In the absence of such standards, should be carried out according to international standards, doubts when installing contact the authorized service.

Equipment supplied with Combustion Engine

- Never inhale exhaust fumes as this can be harmful to your health;
- The Carbon monoxide from the exhaust of internal combustion engines can cause death if used in confined spaces;
- Do not operate or refuel the gasoline or diesel engine in a confined space without sufficient ventilation;
- Do not fuel the equipment when the engine is hot, this could become very dangerous and ensure that there is sufficient ventilation during this procedure;
- Do not touch the engine when it is running as it can burn your skin;
- Use fuel according to engine model;
- Do not use fuel of doubtful origin;
- To prevent electric shock, never touch the spark plug while the engine is running;
- The correct use, cleaning and maintenance of combustion engines must always be in accordance with the instructions contained in the manual of the engine manufacturer.

Operation Conditions

- Concrete mixers can be used in both indoor and outdoor environments;
- When filling a concrete mixer with a spade, do not place the spade inside the drum;
- Improper use of this equipment, other than that for which it was projected, can pose a physical threat to the operator;
- Read this instruction manual carefully;
- The operator must be trained or qualified to use this equipment;
- Set aside an exclusive area for working with the equipment. Keep this area clear of obstacles and well lit at all times;
- Whenever performing maintenance on this equipment, disconnect the cable from the power supply.
- Pneumatic wheel rim 14" calibration: between 26 and 30 p.s.i (pound force per square inch);

Noise level during operation:

Since the noise level during mixer operation, with the addition of stone and gravel into the drum to simulate a maximum noise level, can reach up to 95 decibels, the use of ear protection is recommended during prolonged operation.

Cleaning and Conservation

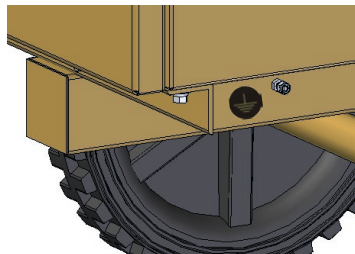
- It must be disconnected from the mains and the cleaning operation is always performed at the end of utilization;
- Cleaning the drum with water, removing any residue of the blades and all internal and external part of the drum;
- Clean the rack and pinion, removing all abrasive material to components;
- Do not put water on electrical components and engine;

Grounding the Equipment

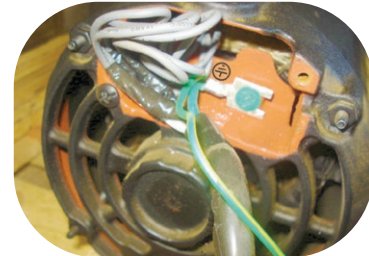
- Correct grounding of the concrete mixer is vitally important in reducing the risk of electrical shocks;
- Thus, before switching on your concrete mixer, make sure that the socket has an ground pin and that this is correctly installed. If your socket is not grounded, arrange for an ground to be installed before using the concrete mixer;
- Should use copper rod length and recommended depth of 2 meters;
- The ground wire to pass through the on / off switch should not be interrupted or connected to contacts.
- Do not connect the ground wire directly into the mixer neutral wire mains.
- Grounding must be made according to the standards in the region and accompanied by a responsible qualified function. In the absence of such standards, should be carried out according to international standards, doubts when the installation please contact your authorized service;



Standardization of plugs and sockets 32A 220V/380V.



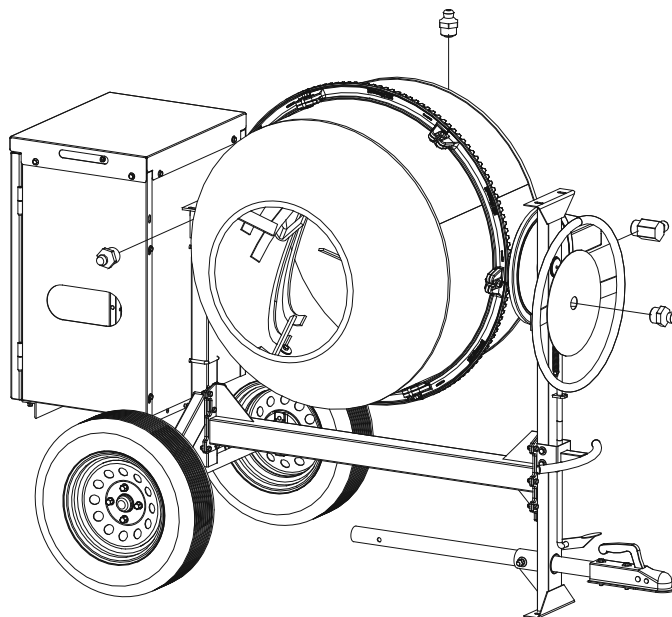
Ground point existing machine.



Ground point existing engine.

Equipment Lubrication

- Keep machine rotating parts lubricated, such as: pinion, rack gear, bushings, and bearings;
- Lubricate the equipment at the beginning of operation, applying grease to all lubrication points;
- Lubrication of the pinion/rack gear assembly is not recommended due to the fact that aggregates such as sand, cement and gravel dust, among others, can adhere to the lubricating agent, causing the mixture to become extremely abrasive, thus resulting in premature wear.
- When lubricating the pinion shaft bearing, the concrete mixer drum must be in a position where the steel yoke arm is perpendicular (90°) in relation to the machine column and the drum mouth must be turned to the same side where the grease fitting is. If not, the bearings will not be lubricated;



RECOMMENDED GREASES

Ipiranga Ipiflex Li EP2

Mobil Mobilux EP2

Shell Gadus S2 V220

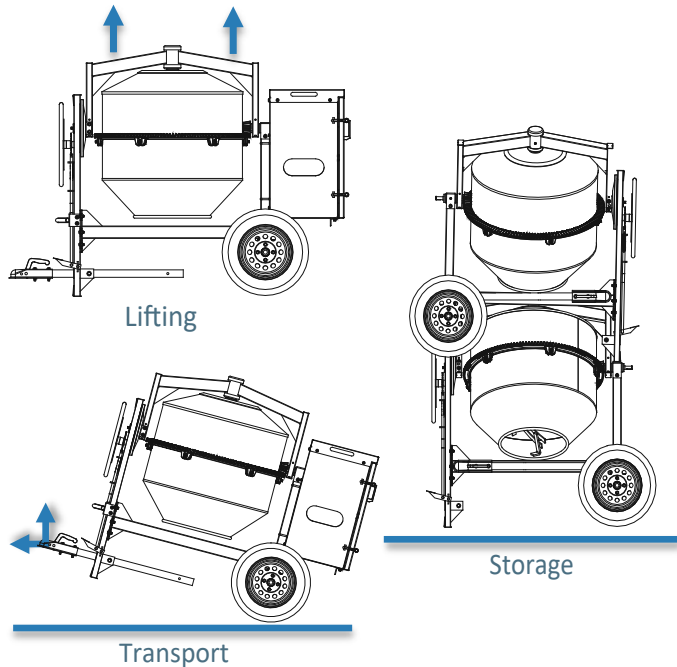
Texaco Marfac MP2

Lubrax Autolith 2

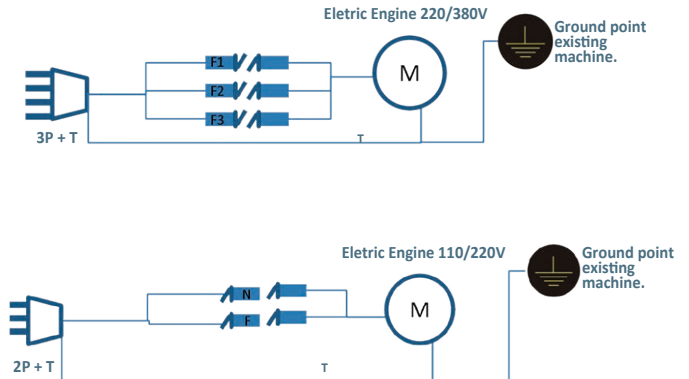


Transport, Lifting and Storage

- It has yoke just to raise a few centimeters of soil and carry through the movement of the wheels;
- They should be used by tilting, with the barrel facing down, while maintaining the flatness of the mixer;
- Feature based on the columns for storing one on the other, fixation is by screws, use only one level of stacking;



Wiring Diagram



Equipment Operation

- Position the mixer on a flat, stable surface to ensure safe and efficient loading and unloading operations.
- Turn on the equipment using the switch on the engine enclosure.
- Tilt the drum to the desired angle by turning the steering wheel while pressing the pedal to release the swivel locking mechanism.
- Set the drum to the desired angle and lock it again, this movement occurs when the pedal is released.
- Load the drum with the required materials and allow it to mix.
- Once mixing is complete, tilt the drum to discharge all the mixture.
- During operation, keep the drum rotating; the equipment must remain on at all times.
- Never start the engine with the mixer loaded.



1. Make use of a measure (bucket) to quantitate the components.



2. Add the aggregate (gravel) in the cement mixer on.



3. Make use of a measure (bucket) to quantitate the components.



4. Add the cement.



5. Finally add the sand and the rest of the water.

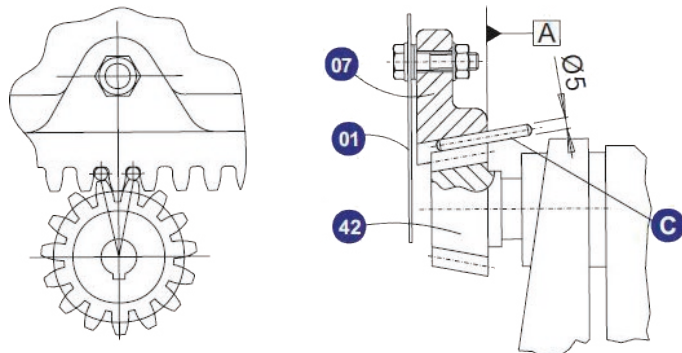


6. Let the concrete mixer rotate for 2,5 minutes before using the concrete.

Equipment Maintenance

Rack Gear Replacement

- Remove the damaged rack gear screws (07), and replace them according to assembly recommendations;
- Use two Ø 5 mm pins (C) to adjust the gap between teeth, necessary for the perfect running of the pinion and rack gear;
- Adjust the alignment between the rack gear and pinion by reference face "A", (07) (42) compensating the difference with flat washers;



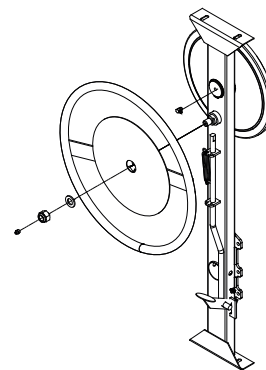
Assembly Procedures

Check List

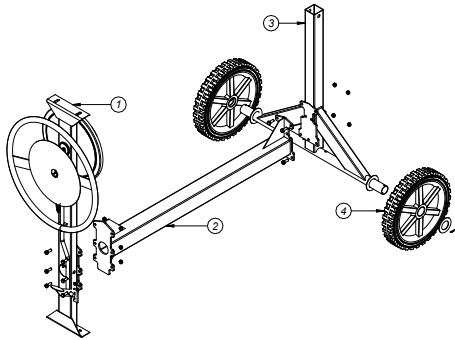
Check list - Concrete mixer	
Tube spacer	1
Engine support	1
Lown column	1
Larger column	1
Wheel rubber solid	2
Tow bar	1
Pin with chain	1
Steering wheel	1
Steel yoke	1
Sleeve	1
Drum	1
Lown guide	1

Check list - Concrete mixer	
Larger guide	1
Engine support	2
Pulley moved	1
Top fund	1
Left side of the box	1
Right side of the box	1
Top side of the box	1
Box door	1
Left plastic protection	2
Right plastic protection	2
Engine pulley	1
Belt V – A	2

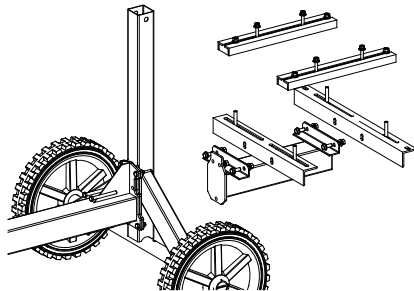
- 1) Assembly the column higher as image below. Assembly the wheel on the pinion shaft, and fasten with self-locking hexagonal nut 3/4.



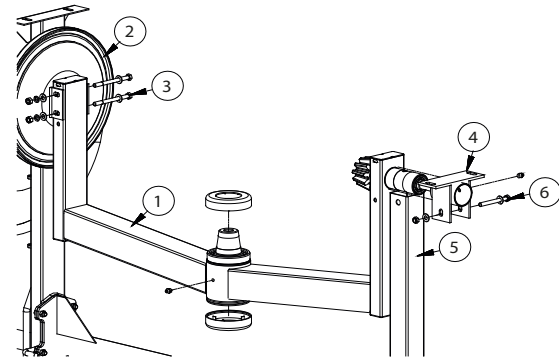
2) Assemble the chassis as image below. Mount the tube space(2) in the large column(1) fasten with hex screw $3/8'' \times 1''$. Then fasten the lower column(3) in the spacer tube(2). Fit the wheels(4) on the axle, and lock with the counter pin.



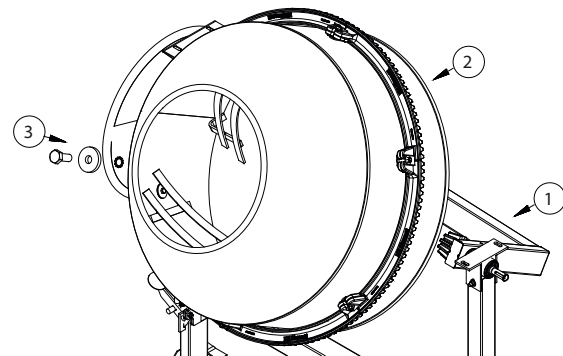
3) Assemble the engine support as image below. Mount the engine support tube in the lower column(3) fasten with hex bolt $3/8'' \times 3.1/2''$. Then fasten the lower guide and larger guide in the engine support tube with hex bolt $3/8'' \times 1''$. Fasten the engine support in the guide, use the hex bolt $3/8'' \times 2''$.



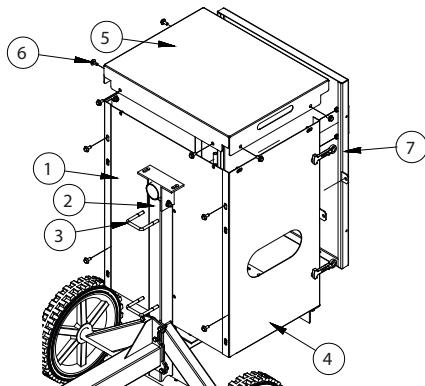
4) Assemble the steel yoke (1) on reducer (2) with hexagonal bolt $3/8'' \times 4.1/2''$ (3). Assemble the bearing support (4) on the steel yoke (1) and fasten on the lower column (5) with bolt $3/8'' \times 3.1/2''$ (6).



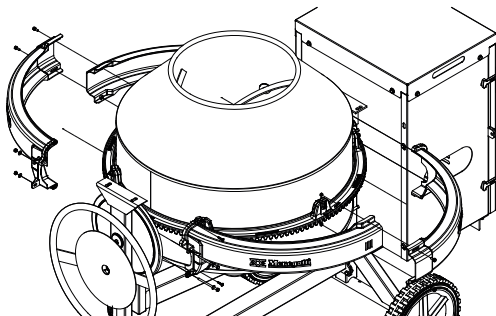
5) Position the steel yoke (1) in 30° angle. Place the drum (2) on the steel yoke (1) and tightening the hexagonal bolt $7/8'' \times 2.1/4''$ (3).



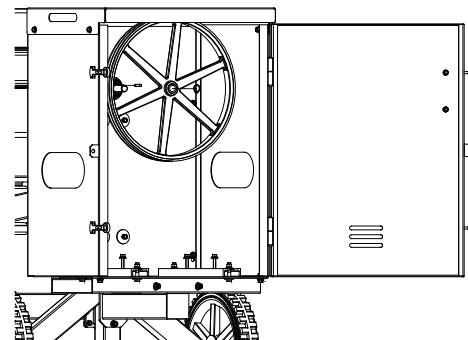
6) Assemble the engine box. Fix the upper end (1) in the lower column (2) with U-bolt (3). Then assemble the sides (4) and the top cover (5), fasten with hexagonal bolt 5/16"x 3/4" (6). Assemble the door (7).



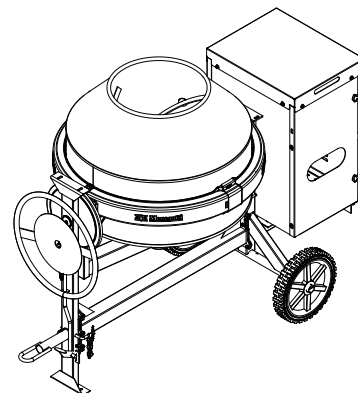
7) Assembly the rack protection as image bellow. Position the rack protection in the steel yoke, fasten with hex bolt 1/4"x4".



8) Fit pulley (1) on the pinion shaft (2), securing with retaining ring E-20 (3) and key 6x6x30.

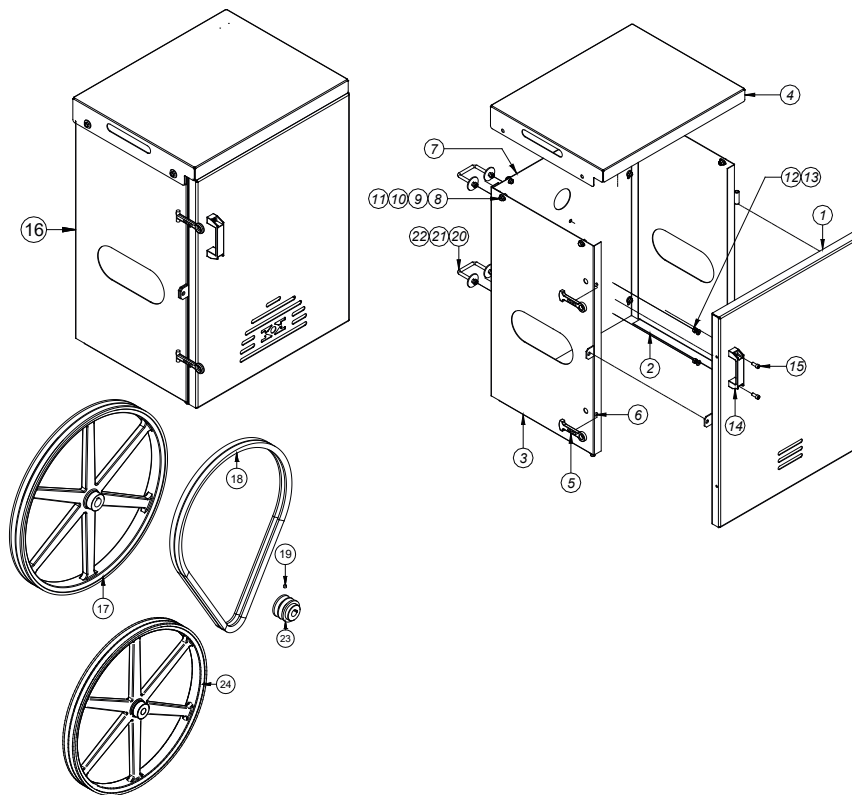


9) Complete assembly.



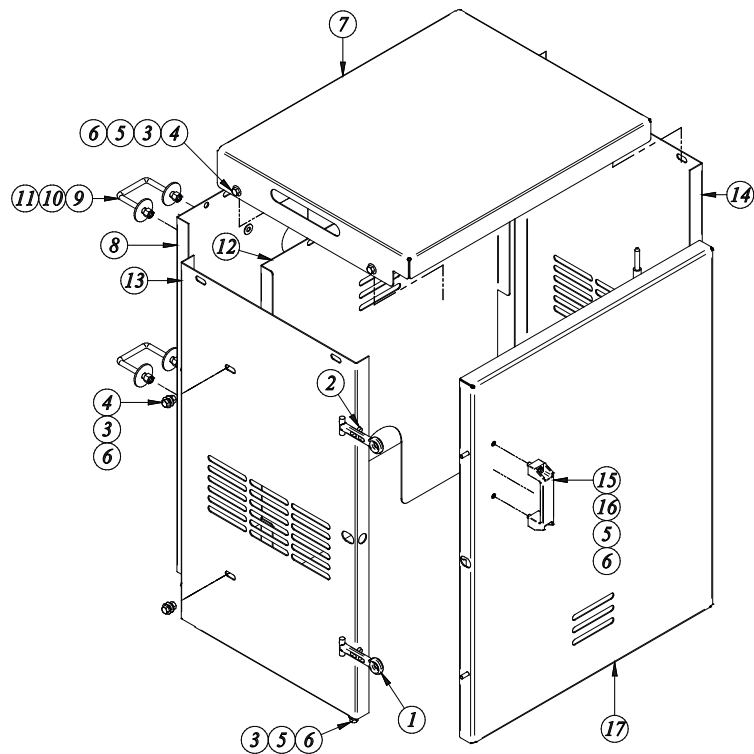
Parts List

Engine Box



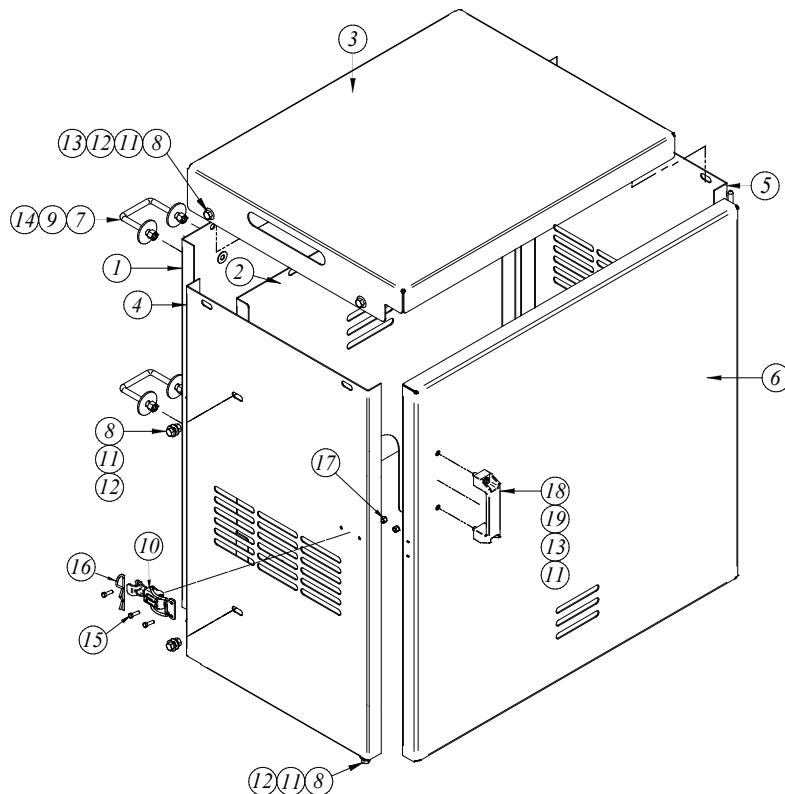
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Door	1	33108429	3108429
2	Left Side	1	32030035	3108151
3	Right Side	1	32030037	3108150
4	Top Cover	1	32420059	3108299
5	Beam Rubber	2	24030221	4122071
6	Stop Rubber	2	24030222	4122072
7	Upper end	1	32420077	3108373
8	Hex. Bolt 5/16"X3/4"	14	21010268	-
9	Flat Washer 5/16"	28	21030252	-
10	Hex Nut 5/16"	14	21021052	-
11	Spring Washer 5/16"	14	21030112	-
12	Hex Nut 5/16"	2	21030252	-
13	Spring Washer 5/16"	2	21030112	-
14	Handle	1	24070164	-
15	Hex. Bolt 5/16"X3/4"	2	21010523	-
16	Engine Box	1	32480021	3108372
17	Pulley Ø450MM	1	29112206	3108301
18	Pulley Ø340x20MM	1	29110159	3108034
19	V-Belt A-68	2	22010134	-
20	Bolt 1/4" X 1/4"	2	21010919	-
21	U-Bolt 3/8"	2	21012480	-
22	Flat Washer 3/8"	4	30100070	-
23	Hex Nut 3/8" UNC	4	21021059	-
24	Drive Pulley 98x65x19,05MM	1	31090278	4109088
25	Pulley w/thread Ø450MM	1	3108496	3108496

Engine Box for Chassi with 4 Wheels



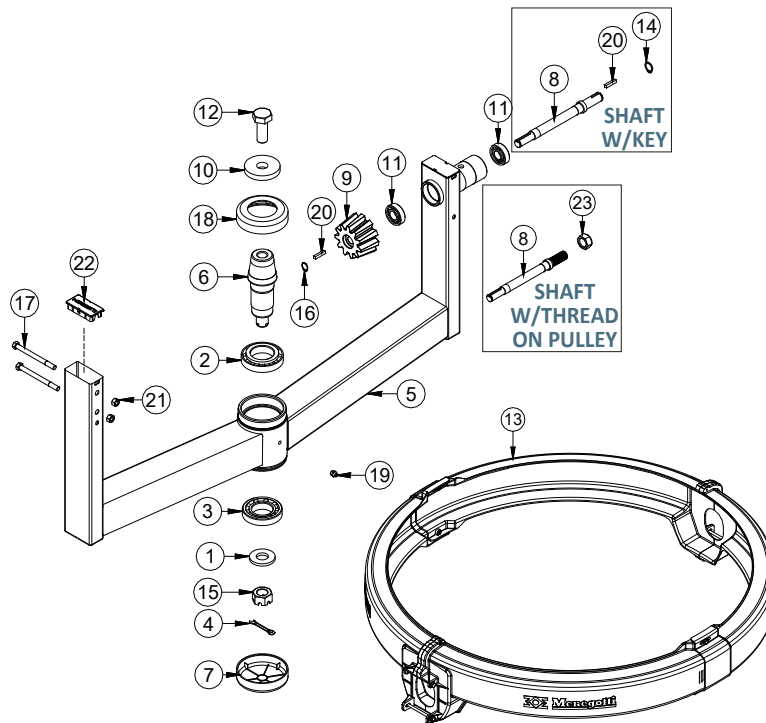
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Rubber Door Latch	2	24030221	4122071
2	Stop Rubber	2	24030222	4122072
3	Flat Washer 5/16"	31	21030252	-
4	Hex. Bolt 5/16"X3/4"	16	21010268	-
5	Spring Washer 5/16"	18	21030112	-
6	Hex Nut 5/16"	18	21021052	-
7	Top Cover (Blue)	1	33108299	3108299
	Top Cover (Red)		32420059	3108299
8	Upper end	1	32420077	3108373
9	U-Bolt 3/8"	2	21012480	4108003
10	Self-Locking Nut 3/8"	4	21021059	-
11	Flat Washer	4	30100070	4107003
12	Internal Protection	1	32420086	3119066
13	Left Side (Blue)	1	33108430	3108414
	Left Side (Red)		23108435	3108434
14	Right Side (Blue)	1	33108431	3108431
	Right Side (Red)	1	23108437	3108437
15	Nylon Handle	1	24070164	4122435
16	Hex. Bolt 5/16"X3/4"	2	21010523	-
17	Door (Blue)	1	43108429	3108429
	Door (Red)		33108429	3108429

Large Engine Box



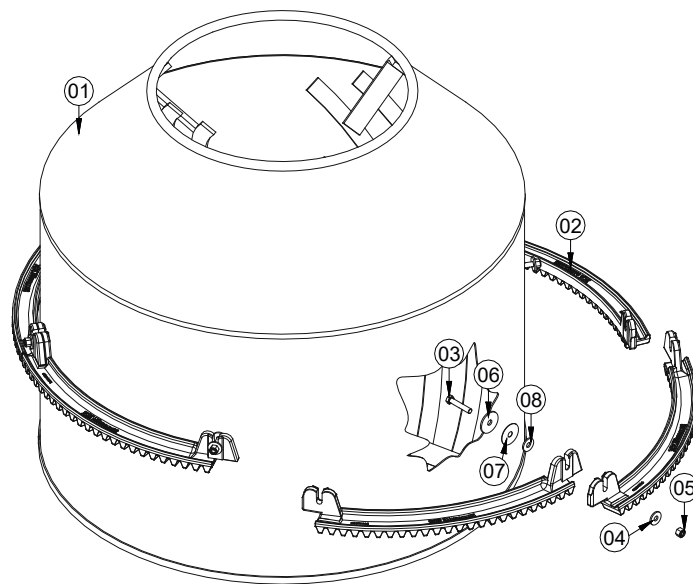
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Upper end (Blue)	1	33108479	3108479
2	Internal Protection	1	33119181	3119181
3	Top Cover (Blue)	1	33108478	3108478
	Top Cover (Red)		43108478	
4	Left Side (Blue)	1	33108484	3108484
	Left Side (Red)		43108484	
5	Right Side (Blue)	1	33108431	3108431
	Right Side (Red)		32420085	
6	Door (Blue)	1	33108482	3108482
	Door (Red)		43108482	
7	U-Bolt 3/8"	2	21012480	4108003
8	Hex. Bolt 5/16"x3/4"	16	21010268	-
9	Flat Washer	4	30100070	4107003
10	Door Latch	1	29758131	-
11	Hex. Nut 5/16"	18	21021052	-
12	Flat Washer 5/16"	31	21030112	-
13	Spring Washer 5/16"	18	21030112	-
14	Self-Locking Nut 3/8"	4	21021059	-
15	Hex. Screw 3/16"x1/2"	4	29117880	-
16	Clamp R 3x67	1	29750041	-
17	Self-Locking Nut	4	21021002	-
18	Alça de Nylon	1	24070164	4122435
19	Internal Hex. Bolt 5/16"x3/4"	2	21010523	-

Steel Yoke



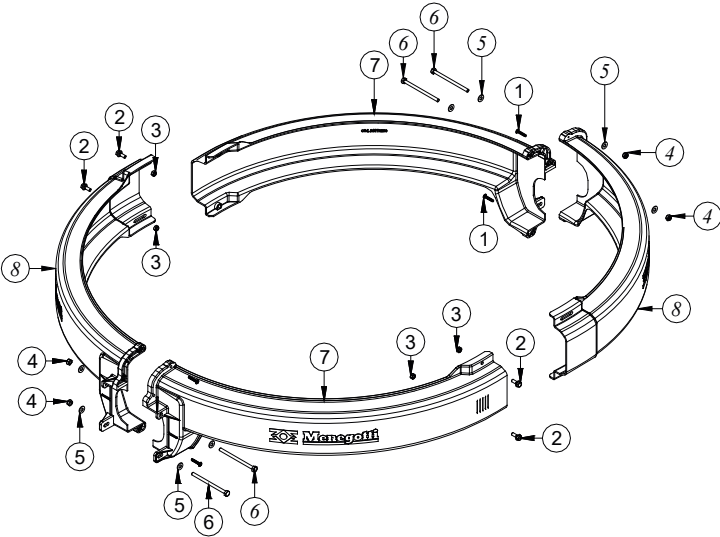
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Flat Washer DN26	1	30100079	4122006
2	Bearing 30210	1	22020608	-
3	Bearing 30209	1	22020607	-
4	Cotter Pin 3/16"x1.1/2"	1	21050106	-
5	Steel Yoke 400L Professional	1	32460056	3106047
	Steel Yoke 400L Rental	1	32460057	3106049
6	Central Axis	1	31020463	3114039
7	Cover	1	24110102	4122007
8	Pinion Shaft w/Key	1	31020026	3114002
	Pinion Shaft w/Thread on Pulley		3114103	3114103
9	Pinion Z-11	1	31030007	4123001
10	Drum Washer	1	21030232	4122008
11	Bearing 6204	2	22020205	-
12	Hex Bolt 7/8"x 2.1/4"	1	21013442	-
13	Rack Gear Protection	1	32030067	3119147
14	Elastic ring E-20	1	21060118	-
15	Castle Nut 1"	1	21020959	-
16	Elastic ring E-17	1	21060115	-
17	Hex Bolt 3/8"x 4.1/2"	2	21015602	-
18	Cover with Hole	1	24110168	4122183
19	Grease fitting 1/8" Straight	1	24040101	-
20	Key 6X6X30MM	2	30160002	4122009
21	Hex Nut 3/8"	2	21021006	-
22	Plastic Enclosure for Steel Yoke	4	4122592	4122592
23	Thin Hex Nut 5/8"	1	21020306	-

Drum



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Drum 400L Professional	1	34600034	2107002
	Drum 400L Rental	1	34600038	2107004
2	Segmented Crown Rack Gear	6	31180004	2124011
3	Hex Bolt 3/8"X2"	6	21010241	-
4	Flat Washer 3/8"	6	21030230	-
5	Hex Nut 3/8"	6	21021059	-
6	Drum Washer	6	30100070	4107003
7	Sealing Washer	6	30100114	4107002
8	Flat Washer 3/8"	6	21030204	-
POS.	DESCRIPTION	JG.	CODE	DRAWING
2 to 7	Rack Gear Segmented (segmented, washer, nut, bolt)	1	31180013	2124020

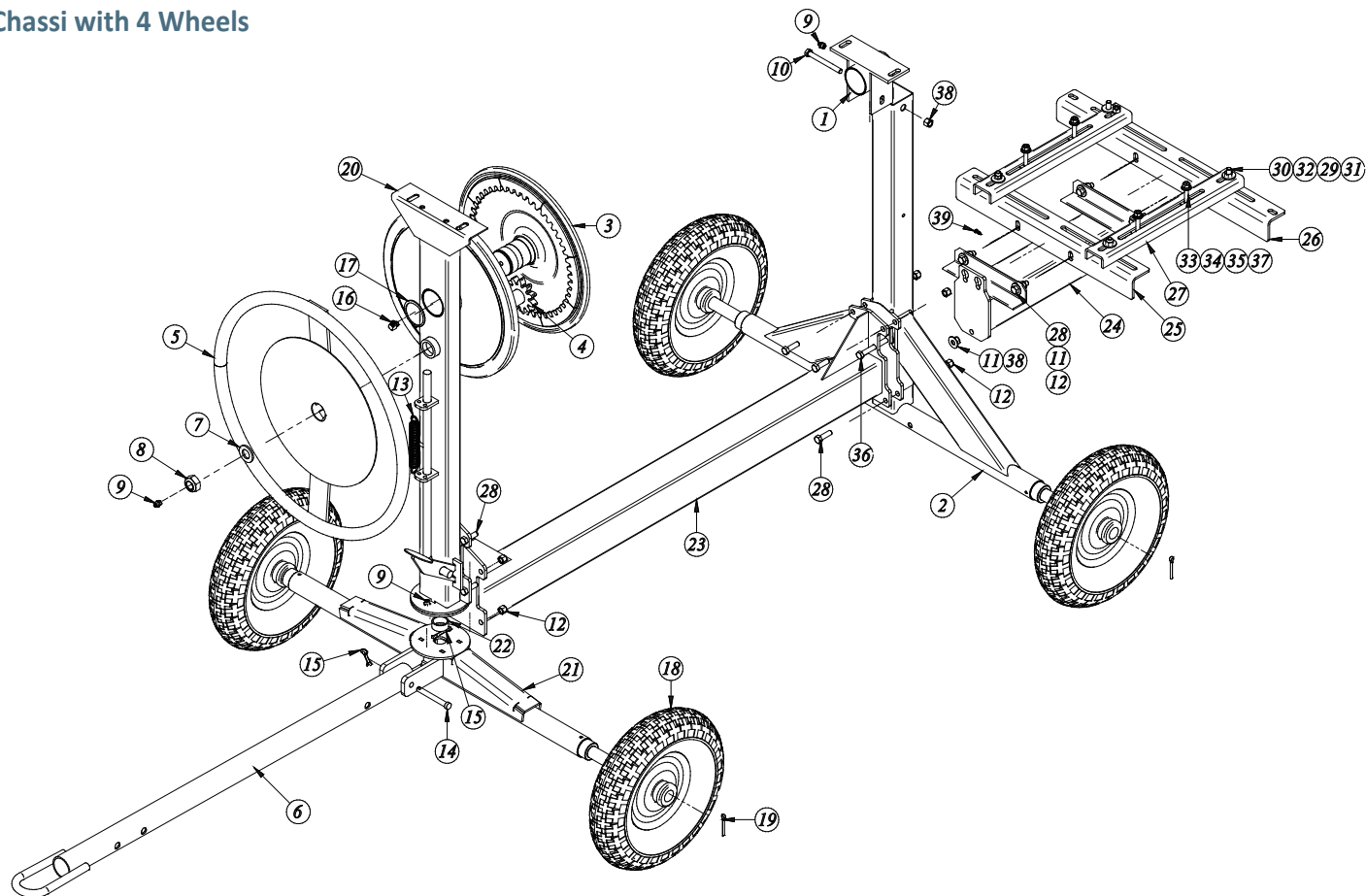
Rack Gear Protection



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Screw M5x25mm	4	21011022	-
2	Hex Bolt M6x16mm	4	21012986	-
3	Hex Nut M6	4	21021208	-
4	Hex Nut 1/4"	4	21021004	-
5	Flat Washer 1/4"	8	21030214	-
6	Hex Bolt 1/4"x4"	4	21010184	-
7	Right - Rack Gear Protection	2	N/A	3119146
8	Left - Rack Gear Protection	2	N/A	3119145

N/A= Item will not be sold separately.

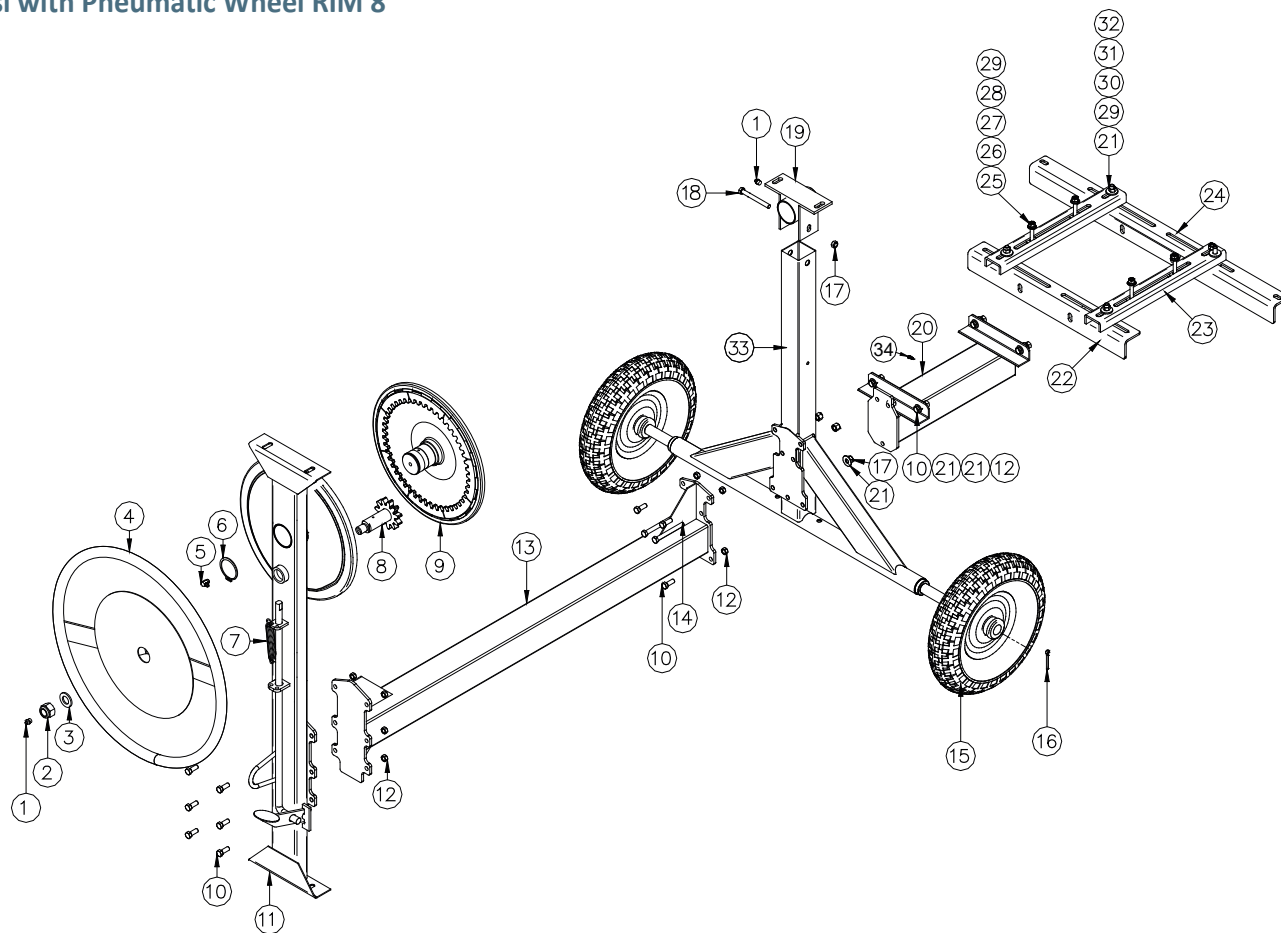
Chassi with 4 Wheels



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	BEARING SUPPORT	1	31140055	3116001
2	LOWER COLUMN	1	-	3105055
3	REDUCING	1	31220021	3121004
4	SHAFT WITH GEAR	1	31020414	4114005
5	STEERING WHEEL	1	31200021	3122089
6	TOW BAR	1	32490012	3110008
7	FLAT WASHER 3/4"	1	21030225	-
8	SELF-LOCKING HEX NUT 3/4"	1	21021011	-
9	GREASE FITTING 1/8" STRAIGHT	3	24040101	-
10	HEX NUT 3/8X3.1/2	1	21015601	-
11	FLAT WASHER 3/8"	8	21030251	-
12	HIGH SELF-LOCKING NUT 3/8"	12	21021059	-
13	TRACTION SPRING	1	21090116	-
14	PIN TOW BAR	1	4105058	4105058
15	COTTER PIN 3/16"x1"	2	21050105	-
16	GREASE FITTING 1/8"	1	24040105	-
17	RETAINING RING E-54	1	21060146	-
18	PNEUMATIC WHEEL RIM 8	4	4155272	4155272
19	COTTER PIN 3/16"x2"	4	21050107	-
20	LARGER COLUMN	1	-	3110210

POS.	DESCRIPTION	QTY.	CODE	DRAWING
21	SHAFT 4 WHEELS	1	-	3114101
22	SHAFT SPACER	1	4400002	4400002
23	CHASSI	1	-	3125141
24	TUBE ENGINE SUPPORT	1	31020053	3125117
25	LOWER GUIDE	1	3112012	3112012
26	LARGER GUIDE	1	3112011	3112011
27	ENGINE SUPPORT	2	32060144	3112013
28	HEX BOLT 3/8" X 1.1/4"	12	21010265	-
29	THICK FLAT WASHER 3/8"	12	21030230	-
30	HEX BOLT 3/8"x2"	4	21010241	-
31	PRESSURE WASHER 3/8"	4	21030163	-
32	HEX NUT 3/8"	4	21020117	-
33	HEX BOLT 5/16"x2" WHITE ZINCED	4	21010228	-
34	PRESSURE WASHER 5/16"	4	21030112	-
35	FLAT WASHER 5/16"	4	21030252	-
36	HEX BOLT 3/8"x4"	3	21015603	-
37	HEX NUT 5/16"	4	21021052	-
38	HEX NUT 3/8"	4	21021006	-
39	HEX SOCKET SCREW	1	21010526	-

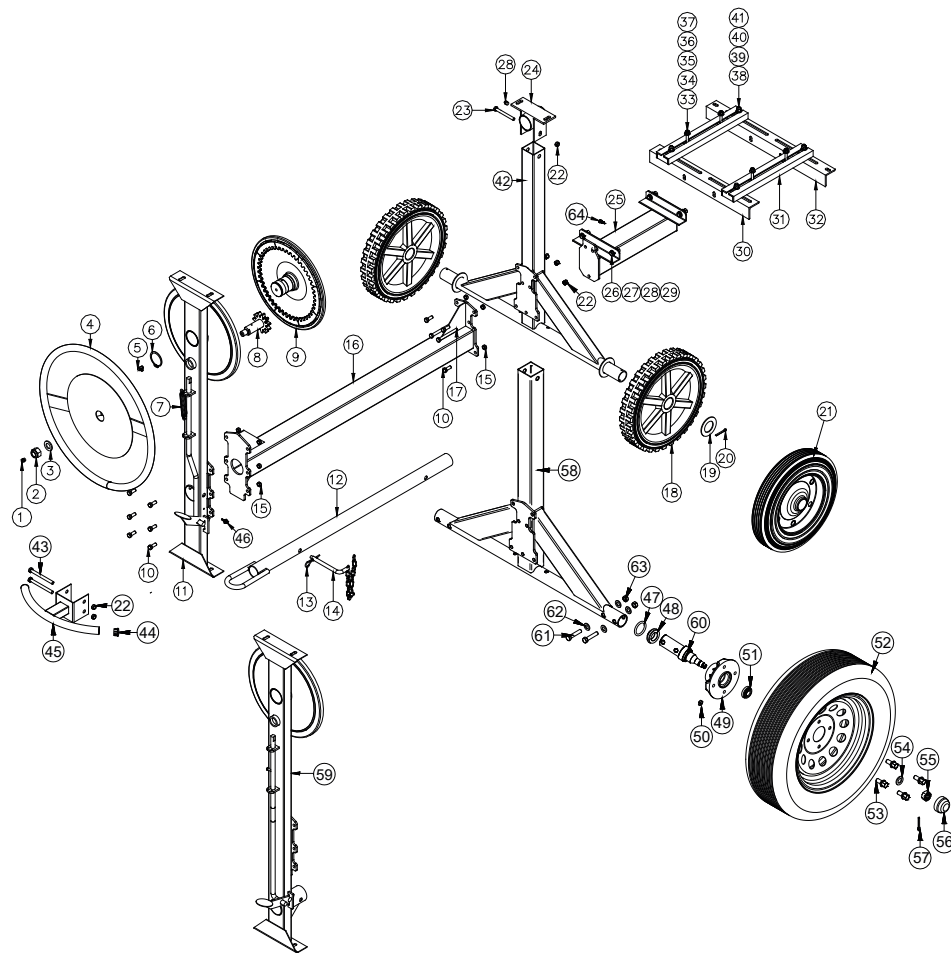
Chassi with Pneumatic Wheel RIM 8"



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	GREASE FITTING 1/8" STRAIGHT	2	24040101	-
2	HEX NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL 400L	1	31200021	3122089
5	GREASE FITTING 1/8"	1	24040105	-
6	RETAINING RING E-54	1	21060146	-
7	TRACTION SPRING	1	21090116	3117038
8	SHAFT WITH GEAR	1	31020414	4114005
9	REDUCING	1	31220021	3121004
10	HEX BOLT 3/8"x1.1/4"	14	21010265	-
11	LARGER COLUMN 400L	1	3110180	3110180
12	SELF-LOCK HEX NUT 3/8" UNC	14	21021059	-
13	TUBE SPACER	1	31020057	3125116
14	HEX BOLT 3/8"X 4" UNC	3	21015603	-
15	PNEUMATIC WHEEL RIM 8"	2	4155272	4155272
16	COTTER PIN 3/16" X 2"	2	21050107	-
17	HEX NUT 3/8"	4	21021006	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
18	HEX BOLT 3/8" X 3.1/2"	1	21015601	-
19	BEARING SUPPORT	1	31140055	3116001
20	ENGINE SUPPORT TUBE	1	31020053	3125117
21	FLAT WASHER 3/8"	12	21030251	-
22	LOWER GUIDE	1	32180017	3112012
23	SUPPORT ENGINE	2	32060144	3112013
24	LARGER GUIDE	1	-	3112204
25	SCREW HEX 5/16"X2"	4	21010228	-
26	HEX NUT 5/16"	4	21021052	-
27	PRESSURE WASHER 5/16"	4	21030112	-
28	FLAT WASHER 5/16"	4	21030252	-
29	THICK FLAT WASHER 3/8"	12	21030230	-
30	HEX NUT 3/8"	4	21020117	-
31	PRESSURE WASHER 3/8"	4	21030163	-
32	SCREW HEX 3/8"X2"	4	21010241	-
33	LOWER COLUMN	1	-	3105055
34	HEX SOCKET SCREW	1	21010526	-

Chassi



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	GREASE FITTING 1/8" STRAIGHT	2	24040101	-
2	HEX NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL 400L	1	31200021	3122089
5	GREASE FITTING 1/8"	1	24040105	-
6	RETAINING RING E-54	1	21060146	-
7	TRACTION SPRING	1	21090116	3117038
8	SHAFT WITH GEAR	1	31020414	4114005
9	REDUCING	1	31220021	3121004
10	HEX BOLT 3/8"x1" UNC	10	21010266	-
11	LARGER COLUMN 400L	1	31020056	2110077
12	TOW BAR	1	32490012	3110008
13	CLIP R-3,5 X 70 MM	1	21050153	-
14	PIN WITH CHAIN	1	32490004	4117021
15	SELF LOCK HEX NUT 3/8"	12	21021059	-
16	TUBE SPACER	1	31020057	3125116
17	HEX BOLT 3/8" X 4"	3	21015603	-
18	SOLID RUBBER WHEEL W/CLAW	2	24110196	3115106
19	FLAT WASHER	2	21030222	4122004
20	AGAINST PIN 3/16" X 2"	2	21050107	-
21	WHEEL RUBBER WITH PLATE ARO (RUNBELL)	2	24110188	-
22	HEX NUT 3/8"	6	21021006	-
23	HEX BOLT 3/8" X 3.1/2"	1	21015601	-
24	BEARING SUPPORT	1	31140055	3116001
25	ENGINE SUPPORT	1	31020053	3125117
26	HEX BOLT 3/8"x1"	4	21010266	-
27	FLAT WASHER 3/8"	14	21030251	-
28	HEX NUT 3/8"	8	21020117	-
29	PRESSURE WASHER 3/8"	8	21030163	-
30	LOWER GUIDE	1	321800117	3112012
31	SUPPORT ENGINE	2	32060144	3112013
32	LARGER GUIDE	1	32180016	3112011
33	SCREW HEX 5/16"2"	4	21010228	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
34	HEX NUT 5/16"	4	21021052	-
35	PRESSURE WASHER 5/16"	4	21030112	-
36	FLAT WASHER 5/16"	4	21030252	-
37	THICK FLAT WASHER 3/8"	16	21030230	-
38	FLAT WASHER 3/8"	14	21030251	-
39	HEX NUT 3/8"	8	21020117	-
40	PRESSURE WASHER 3/8"	8	21030163	-
41	SCREW HEX 3/8"2"	4	21010241	-
42	LOWER COLUMN FOR SOLID RUBBER WHEEL (RUNBELL)	1	33112163	3112163
43	SCREW HEX 3/8"x4"	2	21015603	-
44	PLASTIC CAP	2	24110100	4122034
45	TAGGER 400L (YELLOW)	1	31230007	3122097
46	SCREW #10-16 X 3/4"	1	21010526	-
47	ORING A30	2	24020659	-
48	BEARING ROLLER L45449-L45410	2	22020615	-
49	RUB WHEEL	2	31150023	3137014
50	GRAY 1/8" STRAIGHT	2	24040101	-
51	BEARING ROLLER LM11749-LM11710	2	22020617	-
52	PNEUMATIC WHEEL RIM 14"	2	31260080	41150252
53	SCREW M12X22MM	8	21015320	-
54	FLAT WASHER M16	2	21030221	-
55	NUT CASTLE 5/8"	2	21020956	-
56	EXTERNAL PROTECTION CUBE	2	30130024	4122078
57	AGAINST PINE 1/8"x1.1/2"	2	21050103	-
58	LOWER COLUMN RIM 14	1	31020423	3112164
59	LARGER COLUMN 400L PROFESSIONAL RIM 14"	1	32610773	3110169
	LARGER COLUMN 400L RENTAL RDMC	1	33110173	3110173
60	AXLE END	2	3114127	3114127
61	SCREW M12X60	4	21013060	-
62	WASHER M12	8	29110907	-
63	NUT M12X1,75	4	21021207	-
64	HEX SOCKET SCREW	1	21010526	-

Product Warranty

The conditions and terms of this warranty are non transferable and go into effect on the date of purchase of this equipment, proven by presentation of the sales invoice issued to the first end user. At the time of delivery of the equipment, the customer must be provided with the information and technical orientations according to the contents of this manual.

Not, however, included in this warranty are defects arising from improper use, negligence, imprudence or malpractice, nor are repairs or alterations to any part and/or component of the equipment. Also not included are: the assembly of any sets of parts by technicians not from the Factory itself or from an Authorized Technical Assistant, application other than which it was specified, mechanical or electrical overloading as well as lack of phase, use in environments for which it was not designed, incorrect voltages and frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, gales, fire, landslides or due to transportation.

Removal or any alteration to the series numbers originally placed on the product will render the warranty null, where the Sales invoice and Warranty Certificate must be presented in relation to the equipment in question.

This warranty is limited to the repair, replacement of parts or assembly of parts in which, through examination by a Menegotti Authorized Technical Assistant with prior authorization from the Factory, any manufacturing defect will be verified. This repair or replacement will be performed by the authorized Technical Assistant, where the purchaser will be responsible for risks and expenses arising from transport to and from the authorized Technical Assistant, and where labor and parts will not be charged according to the terms of this warranty.

This warranty replaces any other warranty, implicit or explicit, as well as all any obligation or responsibility on the part of our company in relation to the above mentioned product.

MENEGOTTI Post Sales Department and Technical Assistance.

Term of Warranty

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 12 (twelve) months for Professional model, being: the first 3 (three) months of legal guarantee, and the last 9 (nine) months a special warranty guaranteed by Menegotti, and 18 (eighteen) months for Rental model, being: the first 3 (three) months of legal guarantee, and the last 15 (fifteen) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer. Not included in this equipment warranty are components subject to wear through use such as: bearings, steel cable, electrical plugs, gears and engine breaking.

This warranty includes the replacement of parts and repairs due to manufacturing defects duly noted by the factory or Authorized Technical Assistant. This warranty will be rendered null and void in the case of damages arising from accidents, acts of nature, application other than which it was designed, connection to improper electrical supply or subjected to extensive power fluctuations, or, if opened by persons or workshops not authorized by Menegotti.

The consumer will be responsible for freight expenses for transporting the product to the technical assistant or factory. Menegotti has an ample network of Technical Assistants throughout the country.

The equipment includes and electric engine and this warranty covers internal defects in the engine originating from its manufacture. Defects not covered in this warranty include: overloading due to lack of or excessive phase, use of voltage outside that specified, broken or crushed casing due to negligence during transporting /or storage, coupling or energizing outside specifications and general defects from improper use and/or incorrect installation.

In agreement with these terms,

Customer: _____
Model: _____ **Serial Number:** _____
City: _____ **Date:** _____

Customer *Menegotti Authorized Service*



MENEGOTTI
HANDLING

MENEGOTTI
CONSTRUCTION

MENEGOTTI
HOUSE & GARDEN



Unit Menmaq

Erwino Menegotti, 381 - Água Verde
Jaraguá do Sul - SC - 89254-000



Unit Mentec

José Theodoro Ribeiro, 2399 - Ilha da Figueira
Jaraguá do Sul - SC - 89258-468



Unit Menfer

Saudade, 186 - Seminário
Corupá - SC - 89278-000



Unit MNA

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30046 - United States

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