

MENEGOTTI TECHNICAL MANUAL

CONCRETE MIXER 500L DISASSEMBLED

RENTAL

PROFESSIONAL

QR-Code:



Point your mobile phone camera to access the updated online version of **Technical Manuals** and **Parts Catalogs**, or click on the link below to access the website.

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

Attention:

Before operate **Menegotti equipment**, read this **technical manual**, itself will inform and instruct the operator about the operation.

By the way, you avoid possible working accidents and early maintenance on at the equipment.



Image illustrative

MENEGOTTI[®]

CONSTRUCTION

Congratulations on purchasing a Menegotti product!

With the highest quality, designed and built especially to serve you with technology to suit your needs.

This manual was written to provide you with the information and instructions necessary for the use and maintenance of our equipment, as well as to present you with data relating to its technical characteristics.

Before you put your equipment into operation for the first time, carefully read the information contained herein.

The durability of your equipment depends only on the way it is treated during service (operation) and its satisfactory performance is the result of your careful work, carried out regularly.

Menegotti is prepared to offer you all the necessary technical assistance, as well as to meet your needs for spare parts.

Welcome, you are now a part of the great Menegotti "client family".

MENEGOTTI After Sales and
Technical Assistance departments.

Caution: For best convenience, keep this manual in a appropriate place where it can be consulted when necessary.

Index

Menegotti Group.....	03
The Product.....	03
Safety Informations.....	03
Technical Specifications	04
Main Components.....	05
Working and Operating Conditions.....	06
Cleaning and Conservation.....	06
Grounding Equipment.....	07
Lubrication.....	08
Transportation, Lifting and Storage.....	08
Working Operation.....	09
Equipment Maintenance.....	10
Assembly Procedures.....	10
Wiring Diagram.....	13
Exploded view / Spare Parts.....	14
Product Warranty.....	31
Warranty Term.....	31

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

This equipment is designed for civil construction work with excellent performance and low maintenance. The one responsible for the drum's rotation is an electric or combustion motor, which is driven by a system and motor pulleys with V-belts. The system of discharge is manual and presents mechanisms of transmission that facilitate its operation demanding the minimum of human effort. This equipment have triple-effect mixing blades that increase its efficiency.

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

Safety Informations

This manual must be completely read before any operation. On it there is useful information about the product, manufacturer, safety, replacement parts, maintenance and conservation. Keep this manual, on a proper place, so it may be consulted when necessary.



- Before using this equipment, carefully, read this manual and follow the Manufacturer's information, such as, how to reduce the risk of accidents in operation.
- It is expressly prohibited to remove or alter any safety device or feature, if it occurs Menegotti will not be held responsible.
- Use the equipment according to the instructions on this manual.
- In case of damage or missing parts, contact Menegotti on our telephone number +55 (47) 3275-8000 for replacement.
- With the machine turned off, conduct a daily inspection of the machine's parts. In case of problems, immediately contact Menegotti's authorized service.
- Maintain a limited area exclusive for working with the equipment, always keeping this place clean, without obstructions and with proper illumination.
- 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 wear gloves, safety gloves and ear protection.
- The motors must be installed by qualified professionals.
- Perform the maintenance recommended on this manual with qualified people and within the correct periods.
- Inspect all electrical, mainly regarding cuts, cable friction and broken connections.
- Never use extensions that are not in good conditions.
- Never use wet extensions or operate in wet environments (i.e. Puddles).
- When cleaning the equipment, never throw water on the motor.
- Whenever performing maintenance on this equipment, disconnect the power cable from its source.
- Avoid contact with hot surfaces.
- Before performing any activity or maintenance, first let the motor cool down.
- Avoid contact with rotating parts.

Technical Specifications

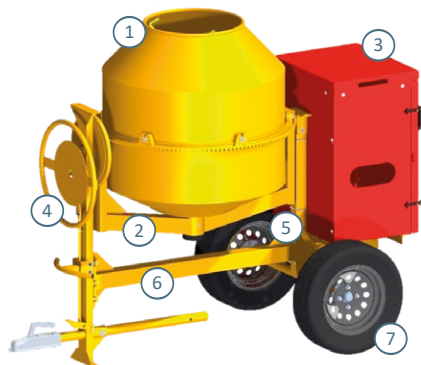
	500L RENTAL	500L PROFESSIONAL
DRUM VOLUME	500L (17,65 CuFt)	500L (17,65 CuFt)
WET MIX INPUT	340L (12 CuFt)	340L (12 CuFt)
DRY MIX INPUT	390L (14 CuFt)	390L (14 CuFt)
NUMBER OF CYCLES / HOUR	15 Cycles	15 Cycles
HOURLY PRODUCTION	5,85m ³ (206,6ft ³)	5,85m ³ (206,6ft ³)
DRUM ROTATION	30Rpm (60Hz) / 28Rpm (50Hz)	30Rpm (60Hz) / 28Rpm (50Hz)
MOTOR/ENGINE	Electrical	Electrical
	Cumbustion	Cumbustion
BELT	V-Belt	V-Belt
WEIGHT WITHOUT MOTOR/ENGINE	240Kg (529lbs)	250Kg (551lbs)
DIMENSIONS (LxWxH)	2208 x 1145 x 1671mm	2208 x 1145 x 1671mm
WHEEL	Wheels 14" rim	Wheels 14" rim

ENGINE	
GASOLINE	MENEGOTTI 390 13HP
	HONDA 9,0 HP
DIESEL	TOYAMA 10 HP
	BRANCO 7 HP
	BRANCO 10 HP
ELECTRICAL	SINGLE PHASE - 3HP 4P 110/220V
	THREE PHASE - 3HP 4P 220/380V

ELECTRICAL EXTENSION	0 a 20m	20 a 30m	Above 30m
GAUGE	4,0 mm ²	6,0 mm ²	Not recommended

Main Components

CONCRETE MIXER 500L	
1	DRUM
2	STEEL YOKE
3	ENGINE BOX
4	LARGER COLUMN
5	SMALLER COLUMN
6	CHASSI
7	WHEEL



Electrical Characteristics

- Before switch your concrete mixer, check if the supply voltage corresponds to the voltage indicated on the identify plate of the motor. Switching on the motor to a different voltage will result in damage to the motor;
- For without voltage selector equipment, contact the authorized service prior to any change.
- Make sure circuit breakers, electric cables, sockets, grounding are compatible with the specified motor;
- Accepted voltage variation must not exceed variations above or below 10%, otherwise running failures may occur or even burning of the motor;

Equipment provided with 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 provided 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.

Working and Operating Conditions

- Concrete mixers can be used in closed or open environments, except combustion engines;
- 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;
- Keep an exclusive area limit and leave the place always clean, without obstruction and with good lighting;

- Whenever performing maintenance on this equipment, disconnect the cable from the power supply.
- Always do preventative maintenance routines on the equipment to ensure greater durability.

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 motor;

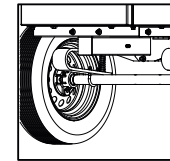
Grounding Equipment

- 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 a 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;
- The concrete mixer with electrical motor comes with on/off switch but does not make plugs and sockets.

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



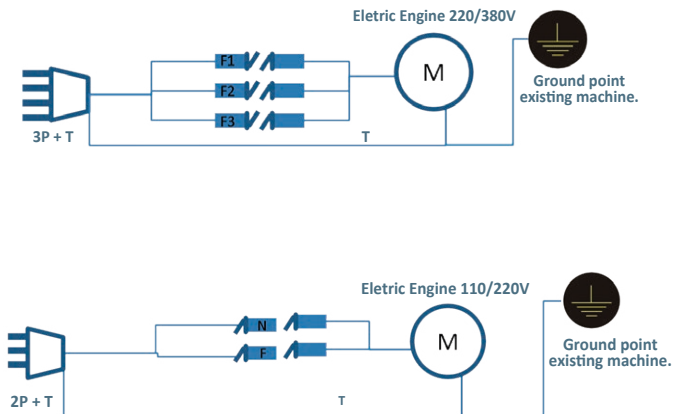
Ground point
existing machine.



Ground point
existing on the motor.



Wiring Diagram

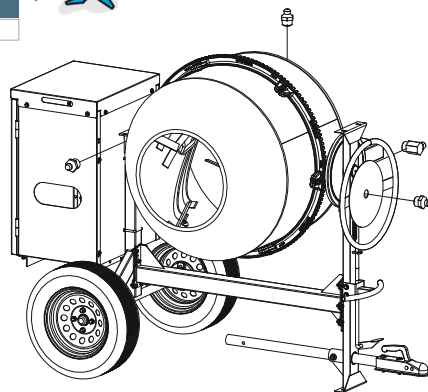


Equipment Lubrication

- 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;

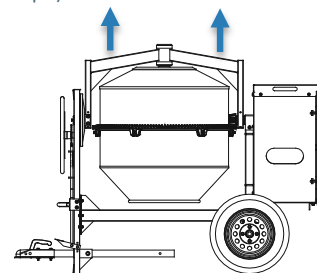
RECOMMENDED GREASES

Ipiranga Ipirflex Li EP2
Mobil Mobilux EP2
Shell Gadus S2 V220
Texaco Marfac MP2
Lubrax Autolith 2

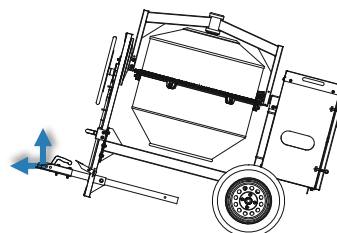


Transport, Lifting and Storage

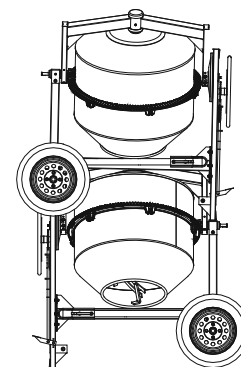
- It has yoke just to raise a few centimeters of soil and carry through the movement of the wheels;
- They should be used by tilting, with the barrel facing down, while maintaining the flatness of the mixer;
- Feature based on the columns for storing one on the other, fixation is by screws, use only one level of stacking;
- Concrete mixers with air wheels must be calibrated to a pressure between 26 and 30 psi; Do not exceed the maximum limit of 60 km/h (37 mph).



Lifting



Transport



Storage

Working 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.



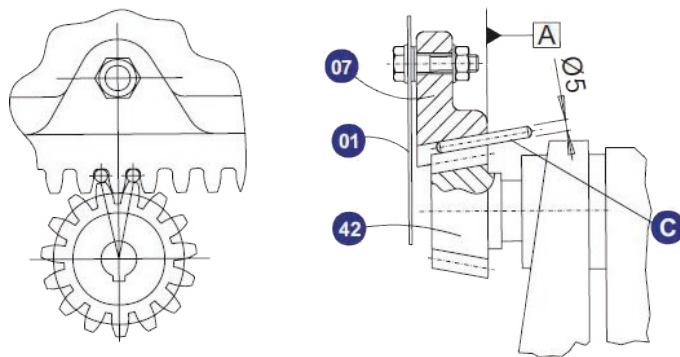
6. Let the concrete mixer rotate for 2,5 minutes before using the concrete.

Illustrative images and orientative information

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;

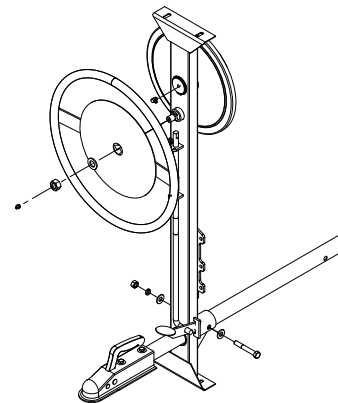


Assembly Procedures

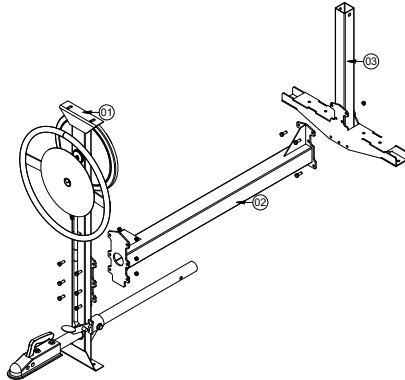
Check List

Check list - Concrete mixer		Check list - Concrete mixer	
Chassi	1	Larger guide	1
Chassi motor support	1	Motor support	2
Smaller column	1	Pulley	1
Larger column	1	Upper end of the box	1
Wheel	2	Left side of the box	1
Tow bar	1	Right side of the box	1
Pin with chain	1	Top cover	1
Steering wheel	1	Box door	1
Steel yoke	1	Motor pulley	1
Bearing support	1	V-Belt A-65	2
Drum	1		
Lower guide	1		

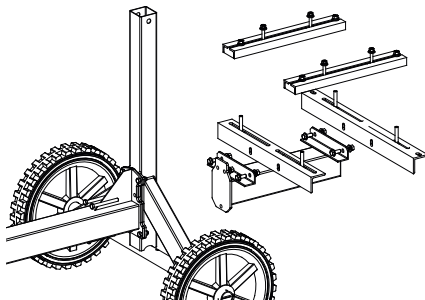
- 1) Assemble the tow bar on the larger column and the steering wheel on the pinion shaft, and fasten with self-locking hexagonal nut 3/4".



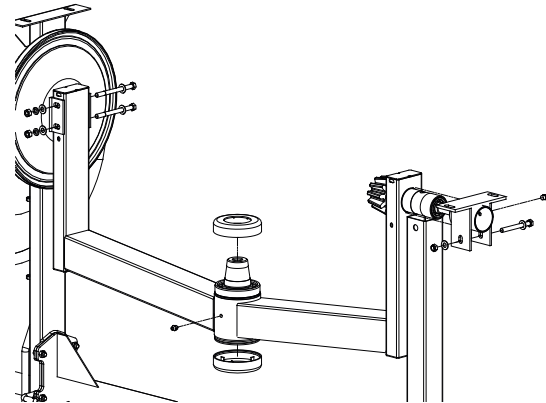
2) Assemble the chassi (2) on the smaller column (3) and and larger column (1) with hexagonal bolt $3/8'' \times 1''$.



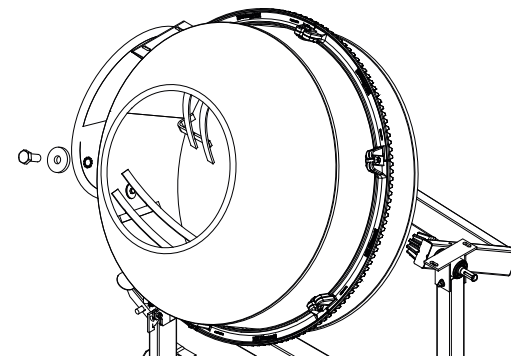
3) Assemble the chassi motor support on smallet column, fasten with the hexagonal bolt $3/8'' \times 3.1/2''$. Then, fasten the lower guide and larger guide on the chassi motor support with hexagonal bolt $3/8'' \times 1''$. Fasten the motor support on guides with hexagonal bolt $3/8'' \times 2''$.



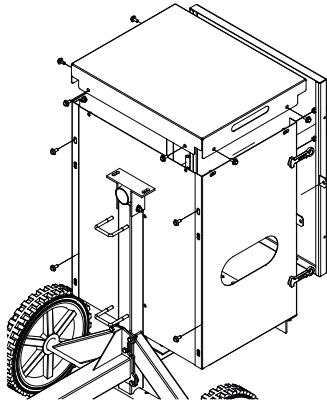
4) Assemble the steel yoke on reducer with hexagonal bolt $3/8'' \times 4.1/2''$. Assemble the bearing support on the steel yoke and fasten on the smallet column with bolt $3/8'' \times 3.1/2''$.



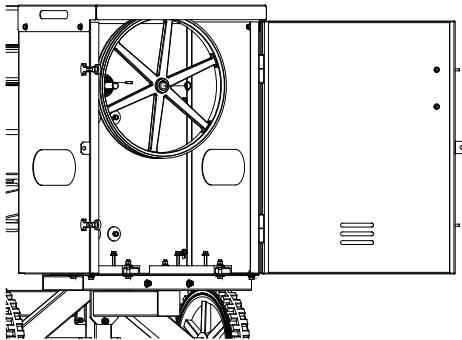
5) Position the steel yoke in 30° angle. Place the drum on the steel yoke and tightening the hexagonal bolt $7/8'' \times 2.1/4''$.



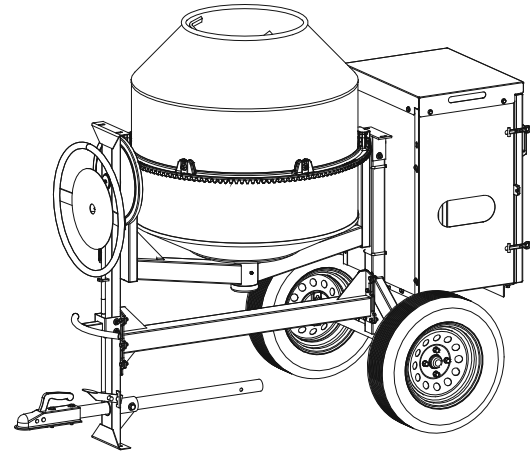
6) Assemble the motor box. Fix the upper end in the smallest column with U-bolt. Then assemble the sides and the top cover, fasten with hexagonal bolt 5/16"x3/4". Assemble the door.



7) Fit pulley on the pinion shaft, securing with retaining ring E-20 and key 6x6x30.

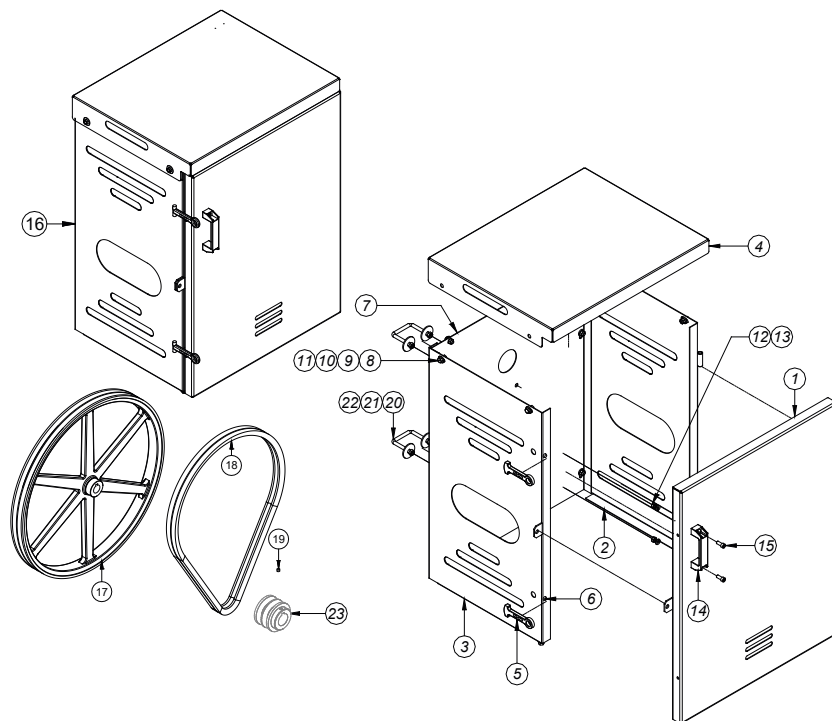


8) Complete assembly.



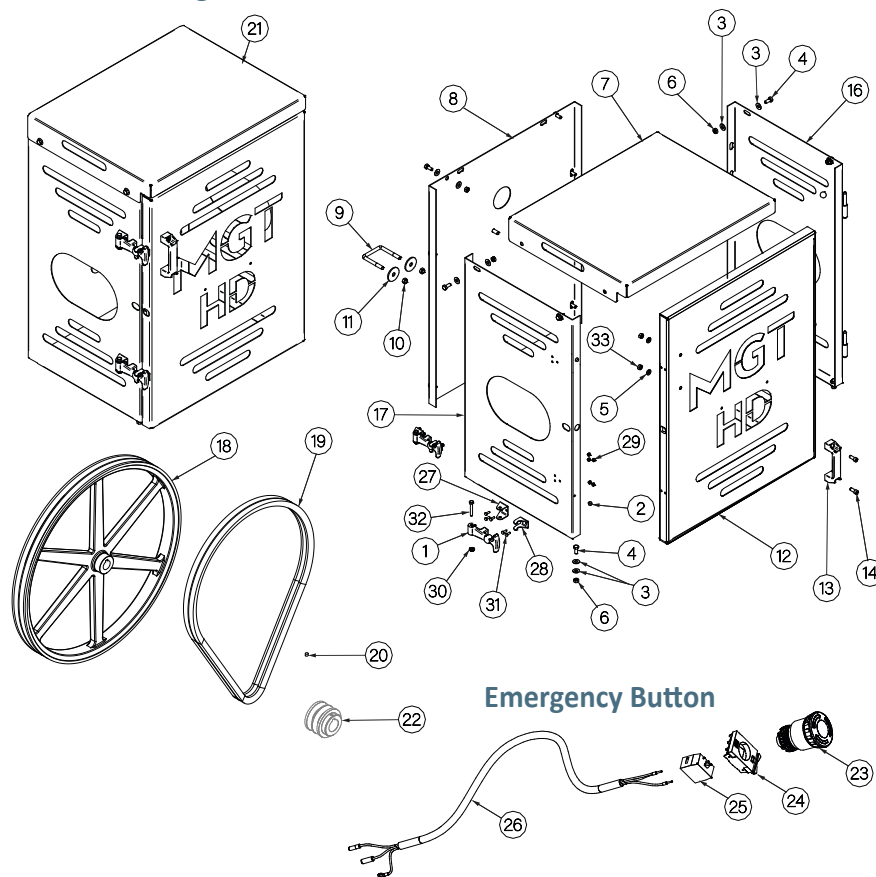
Exploded View / Spare Parts

Engine Box Rental



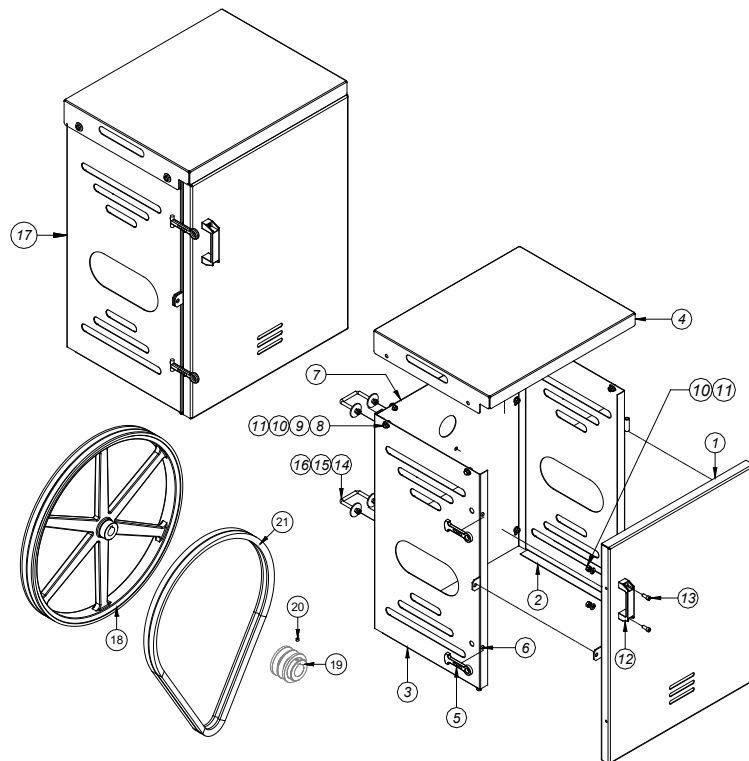
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	DOOR (RED)	1	33108429	3108429
	DOOR (BLUE)		43108429	
2	RIGHT SIDE (RED)	1	23108437	3108437
	RIGHT SIDE (BLUE)		23108442	
3	LEFT SIDE (RED)	1	23108435	3108434
	LEFT SIDE (BLUE)		23108441	
4	TOP COVER (RED)	1	32420059	3108299
	TOP COVER (BLUE)		33108299	
5	BEAM RUBBER	2	24030221	4122071
6	STOP RUBBER	2	24030222	4122072
7	UPPER END	1	32420077	3108373
8	HEXAGONAL BOLT 5/16" x3/4"	12	21010268	-
9	FLAT WASHER 5/16"	24	21030252	-
10	HEXAGONAL NUT 5/16"	12	21021052	-
11	SPRING WASHER 5/16"	12	21030112	-
12	HEXAGONAL NUT 5/16"	2	21021052	-
13	SPRING WASHER 5/16"	2	21030112	-
14	HANDLE	1	24070164	-
15	HEXAGONAL BOLT 5/16" x3/4"	2	21010523	-
16	MOTOR BOX (RED)	1	32480021	3108372
17	PULLEY Ø450MM	1	29112206	3108301
18	V-BELT A-65	2	22010149	-
	V-BELT A-66	2	22010167	-
19	HEXAGONAL BOLT 1/4" x1/4"	2	21010919	-
20	U-BOLT 3/8"	2	21012480	-
21	FLAT WASHER 3/8"	4	30100070	4107003
22	HEXAGONAL NUT 3/8" UNC	4	21021059	-
23	DRIVE PULLEY DN60 x25,4MM	1	31090268	4109069

Universal Engine Box Rental



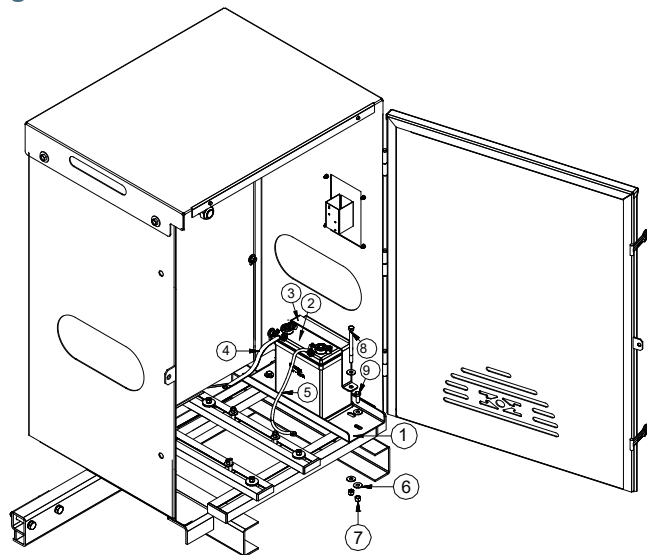
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Rubber Door Latch	2	24030255	4122581
2	Stop Rubber	2	24030222	4122072
3	Flat Washer 5/16"	24	21030252	-
4	Hex. Bolt 5/16"x3/4"	12	21010268	-
5	Spring Washer 5/16"	2	21030112	-
6	Self Locking Hex Nut 5/16"	12	21021058	-
7	Top Cover	1	32420059	3108299
8	Upper end	1	32420077	3108373
9	U-Bolt 3/8"	2	21012480	4108003
10	Self Locking Hex Nut 3/8"	4	21021059	-
11	Flat Washer	4	30100070	4107003
12	Door	1	33108453	3108453
13	Handle	1	24070164	4122435
14	Hex. Bolt 5/16"x3/4"	2	21010523	-
16	Right Side	1	23108437	3108437
17	Left Side	1	23108466	3108466
18	Pulley Ø450MM	1	29112206	3108301
19	V-Belt A-65	2	22010150	-
20	Bolt 1/4" X 1/4"	1	21010919	-
21	Engine Box	1	3108454	3108454
22	Drive Pulley Ø60MM	1	31090268	4109069
23	Emergency Button	1	26160132	-
24	Flange (Emergency Button)	1	26160155	-
25	Contact Block NA BC10F-CSW X100	1	26160146	-
26	Cable (Emergency Button)	1	26010436	4122579
27	Fixed Beam Rubber Holder	2	29117877	4122582
28	Movable Beam Rubber Holder	2	29117878	4122583
29	Hex Nut 3/16"	10	21021002	-
30	Self Locking Low Hex Nut 1/4"	2	21021005	-
31	Hex. Bolt 3/16"x 1/2"	10	29117880	-
32	Hex. Bolt 1/4"x 1.3/4"	2	29117879	-
33	Hex. Bolt 5/16"	2	21021052	-

Professional Engine Box



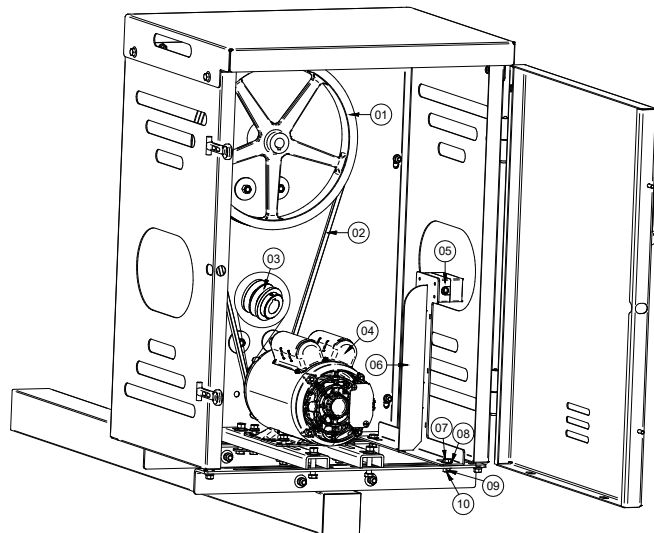
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Door (Blue)	1	43108429	3108429
2	Left Side (Blue)	1	23108441	3108434
3	Right Side (Blue)	1	33108437	3108437
4	Top Cover Blue)	1	33108299	3108299
5	Beam Rubber	2	24030221	4122071
6	Stop Rubber	2	24030222	4122072
7	Upper end	1	32420077	3108373
8	Hex. Bolt 5/16"X3/4"	12	21010268	-
9	Flat Washer 5/16"	24	21030252	-
10	Hex Nut 5/16"	14	21021052	-
11	Spring Washer 5/16"	14	21030112	-
12	Handle	1	24070164	-
13	Hex. Bolt 5/16"X3/4"	2	21010523	-
14	U-Bolt 3/8"	2	21012480	-
15	Flat Washer 3/8"	4	30100070	-
16	Hex Nut 3/8" UNC	4	21021059	-
17	Engine Box (Blue)	1	-	3108372
18	Pulley Ø450MM	1	29112206	3108301
19	Drive Pulley DN60X25,4MM	1	31090268	4109069
20	Bolt 1/4" X 1/4"	2	21010919	-
21	V-Belt	2	22010149	-

Engine Box with Electric Starter



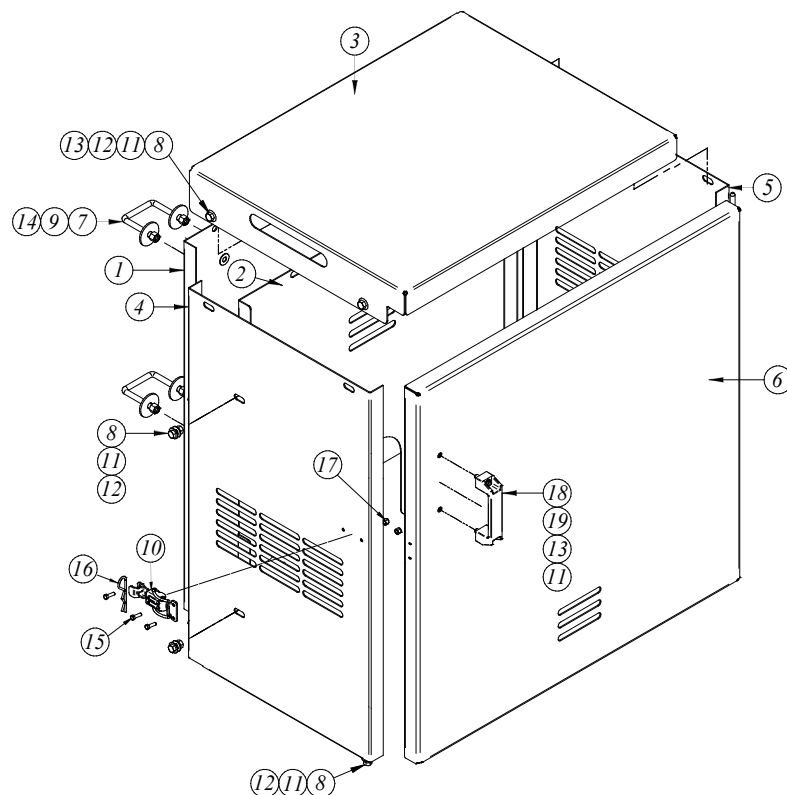
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	BATTERY BASE	1	33122539	3122539
2	BATTERY 12V-38AH	1	29110090	4157146
3	STEEL BATTERY STRAP	1	33122540	3122540
4	NEGATIVE BATTERY CABLE	1	29753231	0.99.08.044
5	POSITIVE BATTERY CABLE	1	29753233	0.99.08.046
6	FLAT WASHER 3/8"	8	21030251	-
7	SELF LOCKING HEX NUT 3/8"	4	21021059	-
8	HEX BOLT 3/8"x4.1/2"	2	21010250	-
9	HEX BOLT 3/8"x1"	3	21010266	-

Kit Motor Box with Electrical Switch



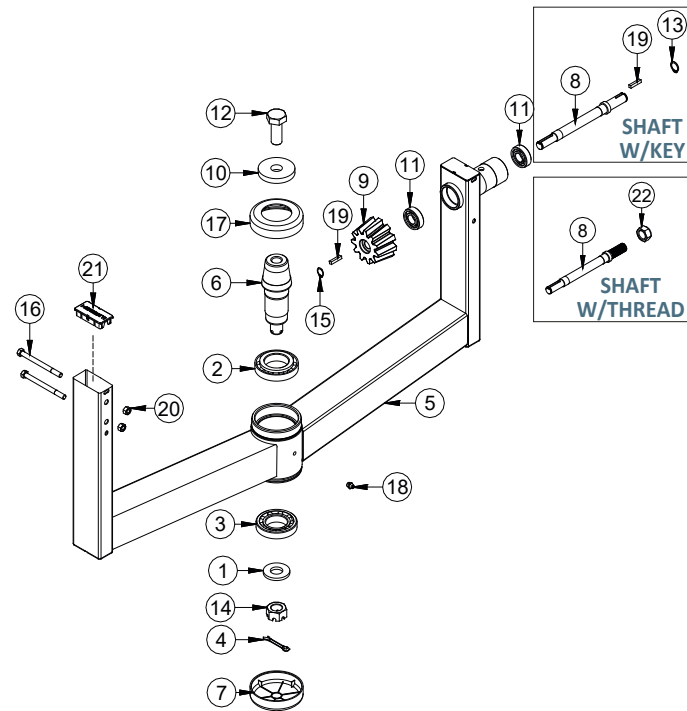
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	PULLEY Ø340X20MM	1	29110159	3108034
2	"V" BELT A-61	1	22010161	-
3	DRIVE PULLEY 75X19,05MM	1	31090081	4122052
4	SINGLE-PHASE MOTOR 3CV 4P 110/220V 60HZ CONNECTED 220V	1	23011919	-
5	SINGLE-PHASE ELECTRICAL SWITCH WITH PROTECTIVE COVER	1	-	4127027
6	SUPPORT FOR ELECTRICAL SWITCH	1	-	9122001
7	HEX BOLT 5/16" X 3/4"	2	21010268	-
8	FLAT WASHER 5/16"	2	21030252	-
9	SPRING WASHER 5/16"	2	21030112	-
10	HEX NUT 5/16"	2	21021052	-

Large Engine Box



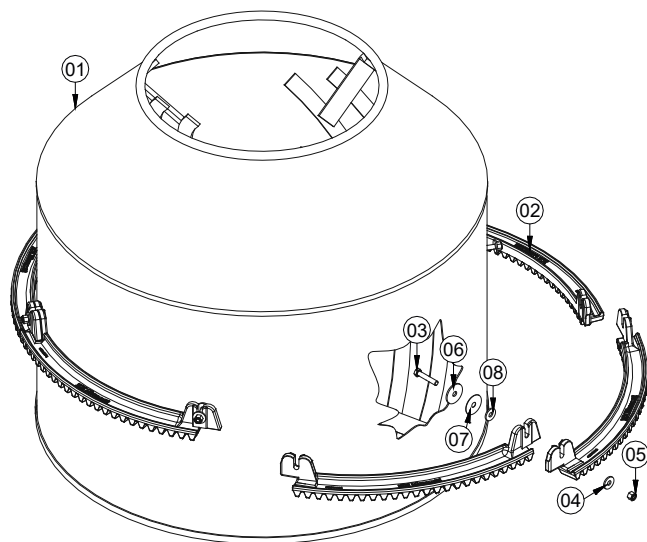
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Upper end (Yellow)	1	33108479	3108479
2	Internal Protection	1	33119181	3119181
3	Top Cover (Blue)	1	33108478	3108478
	Top Cover (Red)		43108478	
4	Left Side (Blue)	1	33108484	3108484
	Left Side (Red)		43108484	
5	Right Side (Blue)	1	33108431	3108431
	Right Side (Red)		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	4.122.006
2	BEARING 30210	1	22020608	-
3	BEARING 30209	1	22020607	-
4	COTTER PIN 3/16" x1.1/2"	1	21050106	-
5	STEEL YOKE 500L	1	32460059	3.106.063
6	CENTRAL AXIS	1	31020464	3.114.095
7	COVER	1	24110102	4.122.007
8	PINION SHAFT W/KEY	1	31020026	3.114.002
	PINION SHAFT W/THREAD		31020412	3.114.003
9	PINION Z-11	1	31030007	4.123.001
10	DRUM WASHER	1	21030232	4.122.008
11	BEARING 6204	2	22020206	-
12	HEXAGONAL BOLT 7/8" x2.1/4"	1	21013442	-
13	ELASTIC RING E-20	1	21060118	-
14	CASTLE NUT 1"	1	21020959	-
15	ELASTIC RING E-17	1	21060115	-
16	HEXAGONAL BOLT 3/8" x4.1/2"	2	21015602	-
17	COVER WITH HOLE	1	24110168	4.122.183
18	GRASE FITTING 1/8" STRAIGHT	1	24040101	-
19	KEY 6X6X30MM	2	30160002	4.122.009
20	HEXAGONAL NUT 3/8"	2	21021006	-
21	PLASTIC ENCLOSURE FOR STEEL YOKE	4	4122592	4122592
22	THIN HEX NUT 5/8"	1	21020306	-

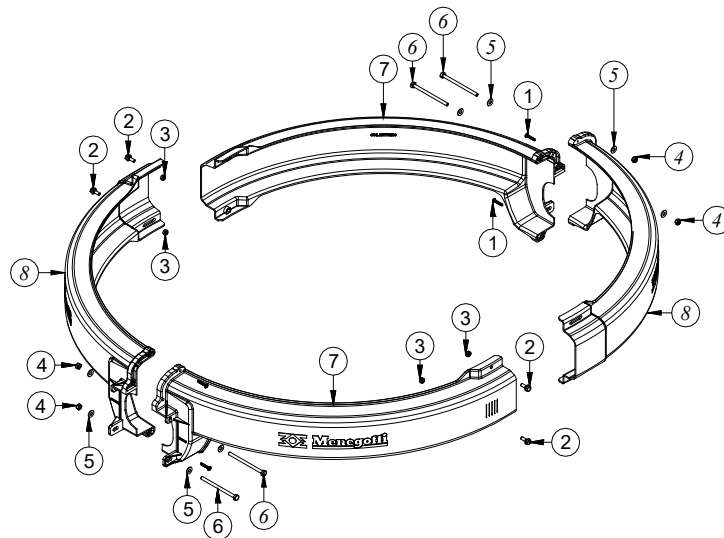
Drum Rental/Professional



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	DRUM	1	34600040	2107100
2	RACK GEAR SEGMENTED	6	31180004	2124011
3	HEXAGONAL BOLT 3/8"X2.1/4"	6	21010241	-
4	THICK FLAT WASHER 3/8"	6	21030230	-
5	HEXAGONAL 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 + 3 + 4 + 5 + 6 + 7	RACK GEAR SEGMENTED KIT	1	31180013	2124020

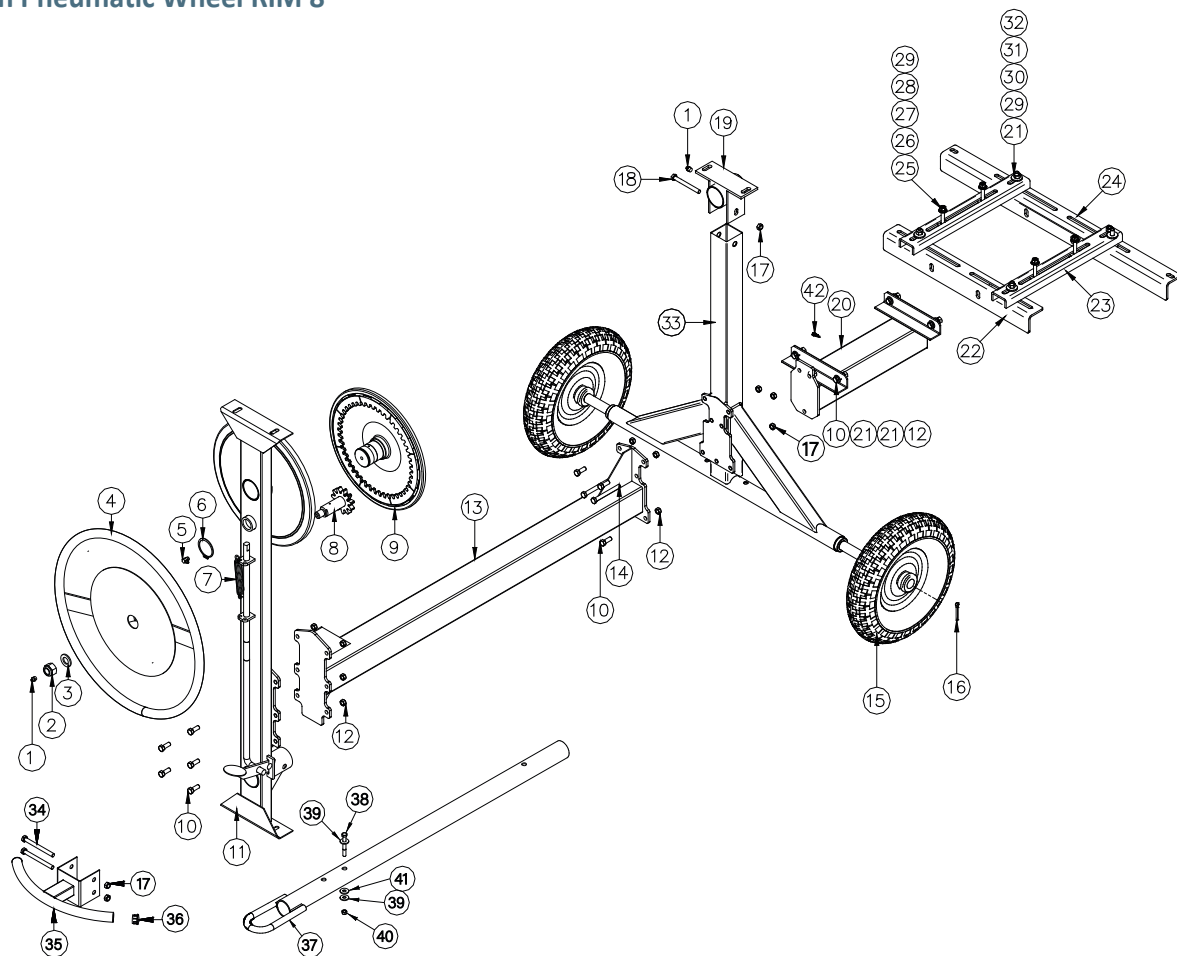
Rack Gear Protection Professional



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	SCREW PHILLIPS M5X25MM	4	21011022	-
2	HEXAGON SCREW M6X16MM	4	21012986	-
3	HEX NUT M6	4	21021208	-
4	HEX NUT 1/4"	4	21021004	-
5	FLAT WASHER 1/4 "	8	21030214	-
6	1/4 "X4" HEX SCREW	4	21010184	-
7	RIGHT RACK PROTECTION	2	N/A	3119146
8	LEFT RACK PROTECTION	2	N/A	3119145
1 TO 8	PLASTIC RACK PROTECTION KIT	1	32030067	3119147

N/A= Item will not be sold separately.

Chassi with Pneumatic Wheel RIM 8"

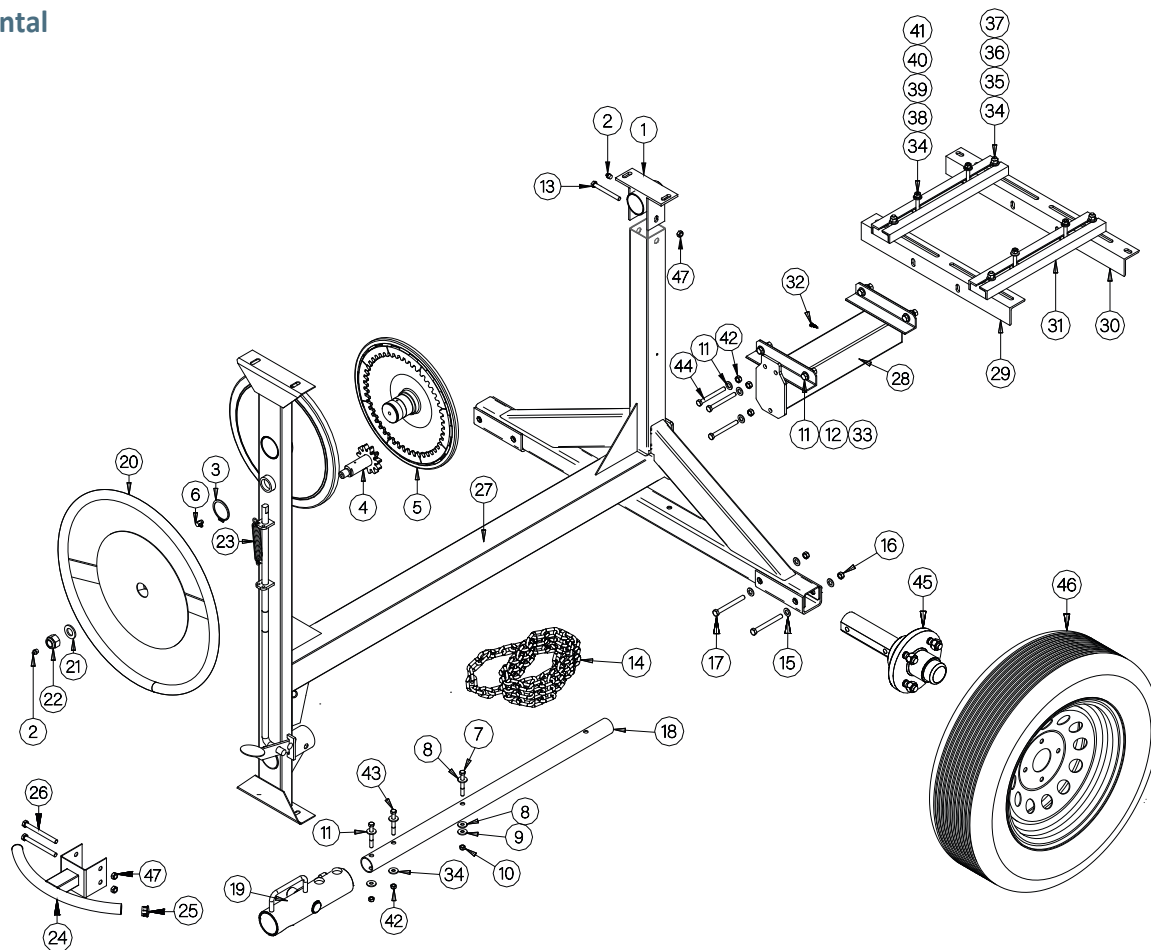


Chassi with Pneumatic Wheel RIM 8"

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	1	31200021	3122089
	STEERING WHEEL (Ø745MM)	1	7122001	7122001
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	1	33110173	3110173
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	21010124	-
15	PNEUMATIC WHEEL RIM 8"	2	4155272	4155272
16	COTTER PIN 3/16" X 2"	2	21050107	-
17	HEX NUT 3/8"	6	21021006	-
18	HEX BOLT 3/8" X 3.1/2"	1	21015601	-
19	SLEEVE	1	31140055	3116001
20	ENGINE SUPPORT TUBE	1	31020053	3125117
21	FLAT WASHER 3/8"	12	21030251	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
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. BOLT 3/8" x 4"	2	21015603	
35	TAGGER	1	31230007	3122097
36	PLASTIC CAP	2	24110100	4122034
37	TOW BAR	1	32490012	3110008
38	HEX. BOLT 1/2" X 3.1/2"	1	21010433	-
39	FLAT WASHER 1/2"	2	21030250	-
40	HEX. NUT 1/2"	1	21020207	-
41	SPRING WASHER 1/2"	1	21030164	-
42	HEX. SOCKET SCREW	1	21010526	-

Chassi Rental

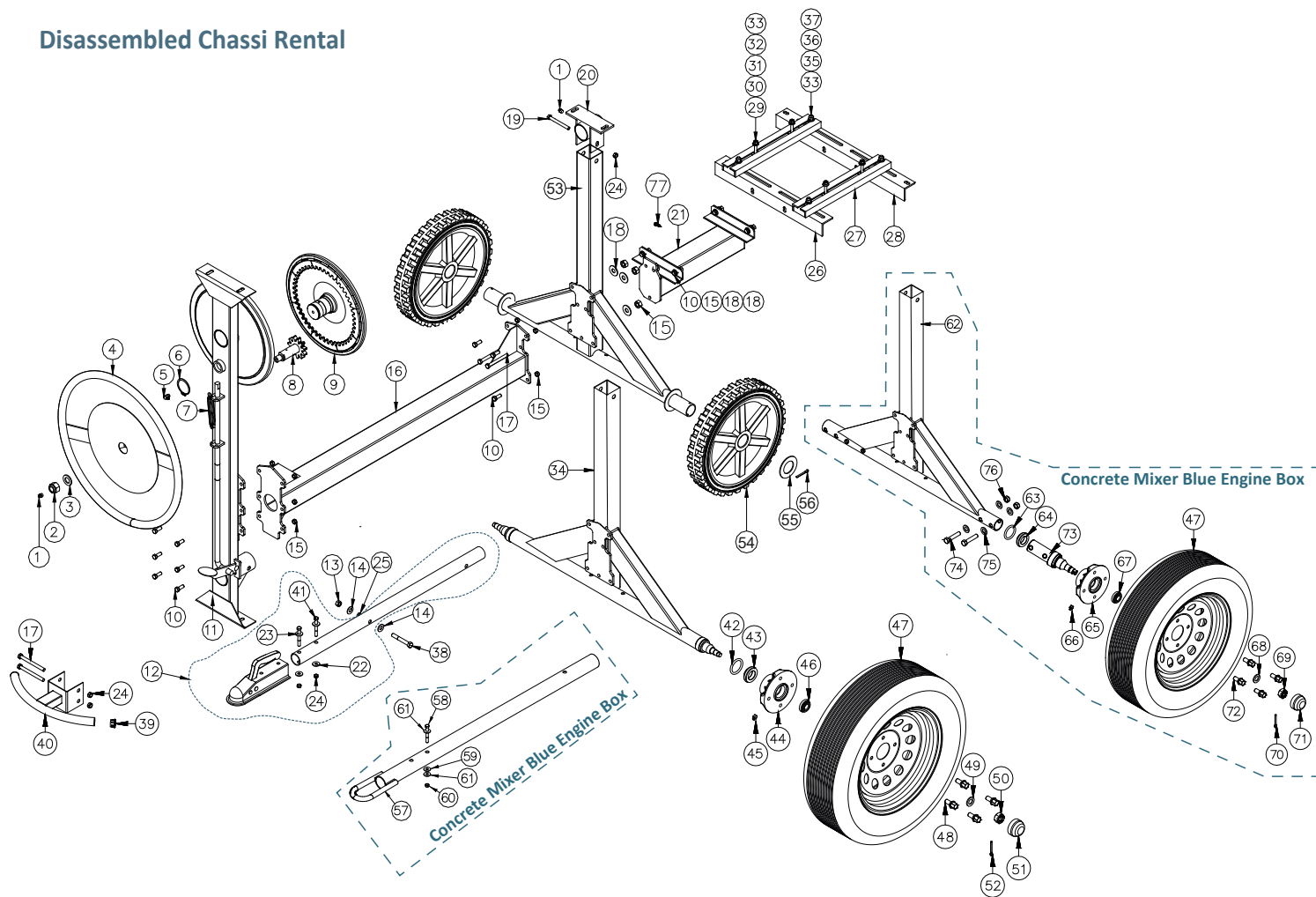


Chassi Rental

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	BEARING SUPPORT	1	31140055	3116001
2	GRASE FITTING 1/8" STRAIGHT	2	24040101	-
3	ELASTIC RING E-54	1	21060146	-
4	SHAFT WITH GEAR	1	31020414	4114005
5	REDUCING	1	31220021	3121004
6	GREASE FITTING 1/8"	1	24040105	-
7	HEXAGONAL NUT 1/2" x3.1/2"	1	21010433	-
8	FLAT WASHER 1/2"	2	21030250	-
9	SPRING WASHER 1/2"	1	21030164	-
10	HEXAGONAL NUT 1/2" CH3/4"	1	21020207	-
11	WASHER 3/8"	11	21030251	-
12	SELF LOCKING NUT 3/8"	7	21021059	-
13	HEXAGONAL BOLT 3/8" x3.1/2"	1	21015601	-
14	CHAIN 1/4" (2,60m)	1	22060303	-
15	FLAT WASHER M12	8	29110907	-
16	SELF LOCKING HEX. NUT M12X1,75	4	21021207	-
17	HEXAGONAL BOLT M12X80	4	21012983	-
18	TOW BAR	1	4110105	4110105
19	TRAILER COUPLING	1	21120102	3122022
20	STEERING WHEEL	1	31200021	3122089
	STEERING WHEEL (Ø745MM)	1	7122001	7122001
21	FLAT WASHER 3/4"	1	21030225	-
22	SELF LOCKING HEXAGONAL NUT 3/4"	1	21021011	-
23	TRACTION SPRING	1	21090116	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
24	TAGGER	1	31230007	3122097
25	PLASTIC CAP	2	24110100	4122034
26	HEXAGONAL BOLT 3/8"X 4"	2	21015603	-
27	CHASSI	1	-	2105147
28	CHASSI ENGINE SUPPORT	1	31020053	3125117
29	LOWER GUIDE	1	32180017	3112012
30	LARGER GUIDE	1	32180016	3112011
31	ENGINE SUPPORT	2	33112013	3112013
32	HEX SOCKET NUT	1	21010526	-
33	HEXAGONAL BOLT 3/8"X1.1/4"	7	21010265	-
34	THICK FLAT WASHER 3/8"	12	21030230	-
35	SPRING WASHER 3/8"	4	21030163	-
36	HEX NUT 3/8"	4	21020117	-
37	HEXAGONAL BOLT 3/8" X 2"	4	21010241	-
38	FLAT WASHER 5/16"	4	21030252	-
39	SPRING WASHER 5/16"	4	21030112	-
40	HEXAGONAL NUT 5/16"	4	21021052	-
41	HEXAGONAL BOLT 5/16" UNC X2" WHITE ZINCAD	4	21010228	-
42	HEXAGONAL NUT 3/8" UNC	2	21021059	-
43	HEXAGONAL BOLT 3/8"X3"	2	21010126	-
44	HEXAGONAL BOLT 3/8" x4" UNC	3	21010124	-
45	WHEEL HUB	2	3137159	3137159
46	WHEEL - 14" RIM	2	4115054	4115054
47	HEXAGONAL NUT 3/8"	3	21021006	-

Disassembled Chassi Rental

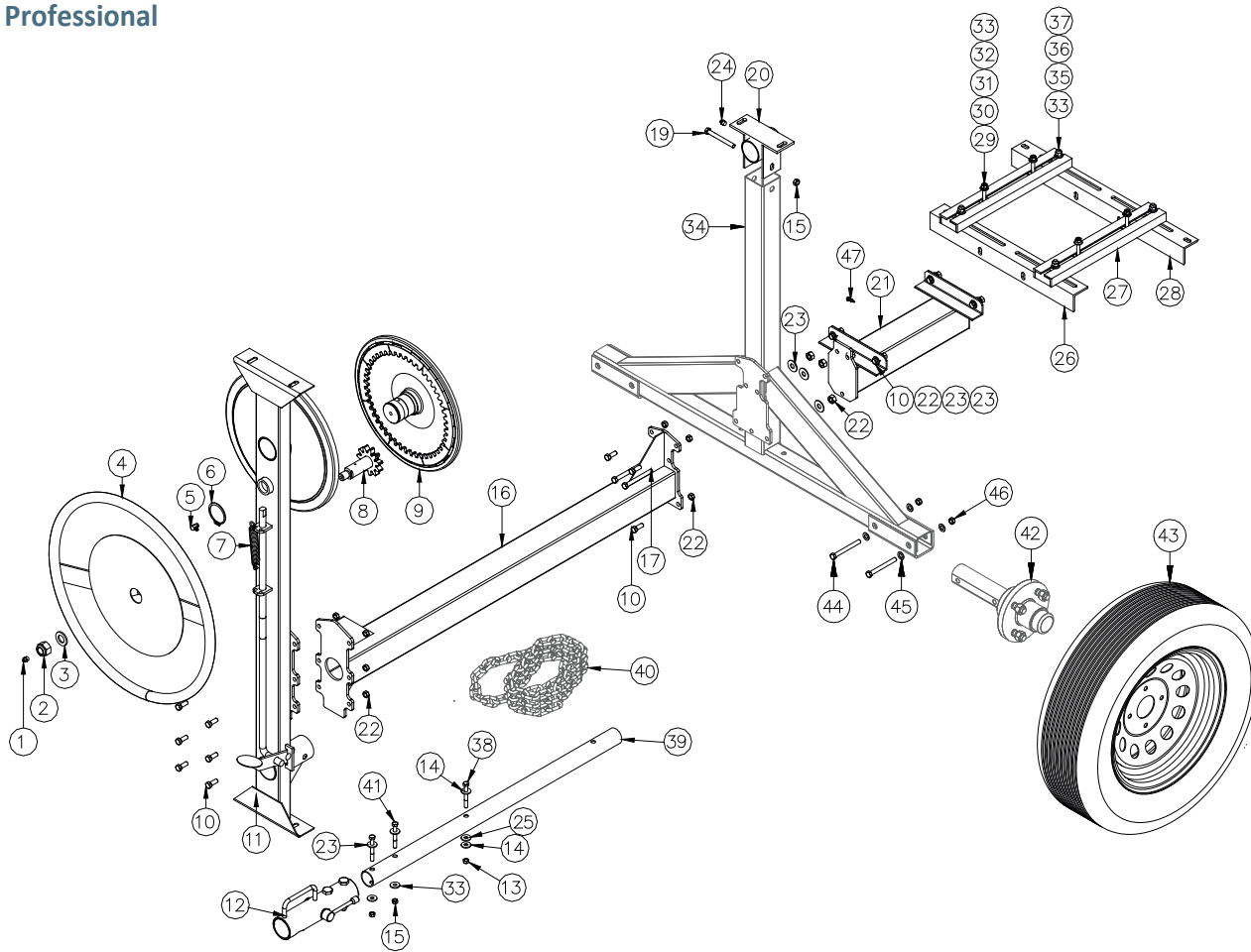


Disassembled Chassi Rental

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	GREASE FITTING 1/8" STRAIGHT	2	24040101	-
2	HEXAGONAL NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL	1	31200021	3.122.089
	STEERING WHEEL (Ø745MM)	1	7122001	7.122.001
5	GREASE FITTING 1/8"	1	24040105	-
6	ELASTIC RING E-5	1	21060146	-
7	SPRING	1	21090116	3.117.038
8	SHAFT WITH GEAR	1	31020414	4.114.005
9	REDUCING	1	31220021	3.121.004
10	HEXAGONAL BOLT 3/8" x1" UNC	14	21010266	-
11	LARGER COLUMN	1	33110175	3.110.175
12	TOW BAR	1	32490011	3.110.089
13	HEXAGONAL NUT 1/2" CH3/4"	1	21020207	-
14	FLAT WASHER 1/2"	2	21030250	-
15	HEXAGONAL NUT 3/8" UNC	17	21021059	-
16	CHASSI	1	31020057	3.125.116
17	HEXAGONAL BOLT 3/8" x4" UNC	5	21015603	-
18	WASHER 3/8"	11	21030251	-
19	HEXAGONAL BOLT 3/8" x3.1/2"	1	21015601	-
20	BEARING SUPPORT	1	31140055	3.116.001
21	CHASSI MOTOR SUPPORT	1	31020053	3.125.117
22	THICK FLAT WASHER 3/8"	2	21030230	-
23	WASHER 3/8"	2	21030251	-
24	HEXAGONAL NUT 3/8"	5	21021006	-
25	SPRING WASHER 1/2"	1	21030164	-
26	LOWER GUIDE	1	32180017	3.112.012
27	MOTOR SUPPORT	2	32060144	3.112.013
28	LARGER GUIDE	1	32180016	3.112.011
29	HEXAGONAL BOLT 5/16" x2"	4	21010228	-
30	HEXAGONAL NUT 5/16"	4	21021052	-
31	SPRING WASHER 5/16"	4	21030112	-
32	WASHER 5/16"	4	21030252	-
33	THICK FLAT WASHER 3/8"	12	21030230	-
34	SMALLER COLUMN	1	31020423	3.112.164
35	HEXAGONAL NUT 3/8"	4	21020117	-
36	SPRING WASHER 3/8"	4	21030163	-
37	HEXAGONAL BOLT 3/8" x2"	4	21010241	-
38	HEXAGONAL NUT 1/2" x3.1/2"	1	21010433	-
39	PLASTIC CAP	2	24110100	4.122.034

POS.	DESCRIPTION	QTY.	CODE	DRAWING
40	TAGGER	1	31230007	3.122.097
41	HEXAGONAL NUT UNC 3/8" x3"	2	21010126	-
42	O-RING A30	2	24020659	-
43	BEARING 45449 - L45410	2	22020615	-
44	WHEEL HUB	2	31150023	3.137.014
45	GREASE FITTING 1/8"	2	24040101	-
46	BEARING LM11749 - LM11710	2	22020617	-
47	WHEEL - 14" RIM	2	31260080	4.115.052
48	BOLT M12 x 22MM	8	21015320	-
49	FLAT WASHER 5/8"	2	21030208	-
50	CASTLE NUT 5/8"	2	21020956	-
51	EXTERNAL PROTECTION	2	30130024	4.122.078
52	COTTER PIN 1/8" x1.1/2"	2	21050103	-
53	LOWER COLUMN FOR SOLID RUBBER WHEEL	1	31020050	3.112.158
54	SOLID RUBBER WHEEL W/CLAW	2	24110196	3.115.106
55	FLAT WASHER	2	21030222	-
56	AGAINST PIN 3/16" X 2"	2	21050107	-
57	TOW BAR (BLUE ENGINE BOX)	1	32490012	3.110.008
58	HEX. BOLT 1/2" X 3.1/2"	1	21010433	-
59	SPRING WASHER 1/2"	1	21030164	-
60	HEX. NUT 1/2"	1	21020207	-
61	FLAT WASHER 1/2"	2	21030250	-
62	SMALLER COLUMN (BLUE RENTAL ENGINE BOX)	1	31020423	3.112.164
63	O-RING A30	2	24020659	-
64	BEARING 45449	2	22020615	-
65	WHEEL HUB	2	31150023	3.137.014
66	GREASE FITTING 1/8"	2	24040101	-
67	BEARING LM11749	2	22020617	-
68	FLAT WASHER 5/8"	2	21030208	-
69	CASTLE NUT 5/8"	2	21020956	-
70	COTTER PIN 1/8" X 1.1/2"	2	21050103	-
71	EXTERNAL PROTECTION	2	30130024	4.122.078
72	BOLT M12X22MM	8	21015320	-
73	AXLE END	2	3114127	3.114.217
74	SCREW M12X60	4	21013060	-
75	WASHER M12	8	29110907	-
76	NUT M12X1,75	4	21021207	-
77	HEX. SOCKET SCREW	1	21010526	-

Chassi Professional



Chassi Professional

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	GREASE FITTING 1/8" STRAIGHT	1	24040101	-
2	HEXAGONAL NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL	1	31200021	3.122.089
5	GREASE FITTING 1/8"	1	24040105	-
6	ELASTIC RING E-54	1	21060146	-
7	SPRING	1	21090116	3.117.038
8	SHAFT WITH GEAR	1	31020414	4.114.005
9	REDUCING	1	31220021	3.121.004
10	HEXAGONAL BOLT 3/8" X1" UNC	14	21010266	-
11	LARGER COLUMN	1	-	3.110.183
12	TRAILER COUPLING	1	21120102	3.122.022
13	HEXAGONAL NUT 1/2" CH3/4"	1	21020207	-
14	FLAT WASHER 1/2"	2	21030250	-
15	HEXAGONAL NUT 3/8" UNC	3	21021006	-
16	CHASSI	1	31020057	3.125.116
17	HEXAGONAL BOLT 3/8" X4" UNC	3	21010124	-
18	HEX NUT 3/8"	2	21021006	-
19	HEXAGONAL BOLT 3/8" X 3.1/2"	1	21015601	-
20	BEARING SUPPORT	1	31140055	3.116.001
21	CHASSI MOTOR SUPPORT	1	31020053	3.125.117
22	HEXAGONAL NUT 3/8" UNC	17	21021059	-
23	WASHER 3/8"	13	21030251	-
24	GREASE FITTING 1/8" STRAIGHT	1	24040101	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
25	SPRING WASHER 1/2"	1	21030164	-
26	LOWER GUIDE	1	32180017	3.112.012
27	MOTOR SUPPORT	2	32060144	3.112.013
28	LARGER GUIDE	1	32180016	3.112.011
29	HEXAGONAL BOLT 5/16" X2"	4	21010228	-
30	HEXAGONAL NUT 5/16"	4	21021052	-
31	SPRING WASHER 5/16"	4	21030112	-
32	WASHER 5/16"	4	21030252	-
33	THICK FLAT WASHER 3/8"	14	21030230	-
34	SMALLER COLUMN	1	3112187	3.112.187
35	HEXAGONAL NUT 3/8"	4	21020117	-
36	SPRING WASHER 3/8"	4	21030163	-
37	HEXAGONAL BOLT 3/8" X2"	4	21010241	-
38	HEXAGONAL NUT 1/2" X3.1/2"	1	21010433	-
39	TOW BAR	1	4110105	4.110.105
40	CHAIN 1/4" (2,60M)	1	22060303	-
41	HEXAGONAL NUT UNC 3/8" X3"	2	21010126	-
42	WHEEL HUB	2	3137159	3.137.159
43	WHEEL - 14" RIM	2	4115054	4.115.054
44	HEX SCREW M12 x 80	4	21012983	-
45	FLAT WASHER M12	8	29110907	-
46	SELF-LOCKING HEX NUT M12 x 1,75	4	21021207	-
47	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 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, and 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, 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 motor and this warranty covers internal defects in the motor 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*



Solid values, **sustainable future.**

MENEGOTTI
HANDLING

MENEGOTTI
CONSTRUCTION

MENEGOTTI
HOUSE & GARDEN



Unit • Unidat Menmaq

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



Unit • Unidat Mentec

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



Unit • Unidat Menfer

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



Unit • Unidat MNA

248 E Crogan St STE 301 - Lawrenceville - GA
30046 - United States

grupomenegotti.com