

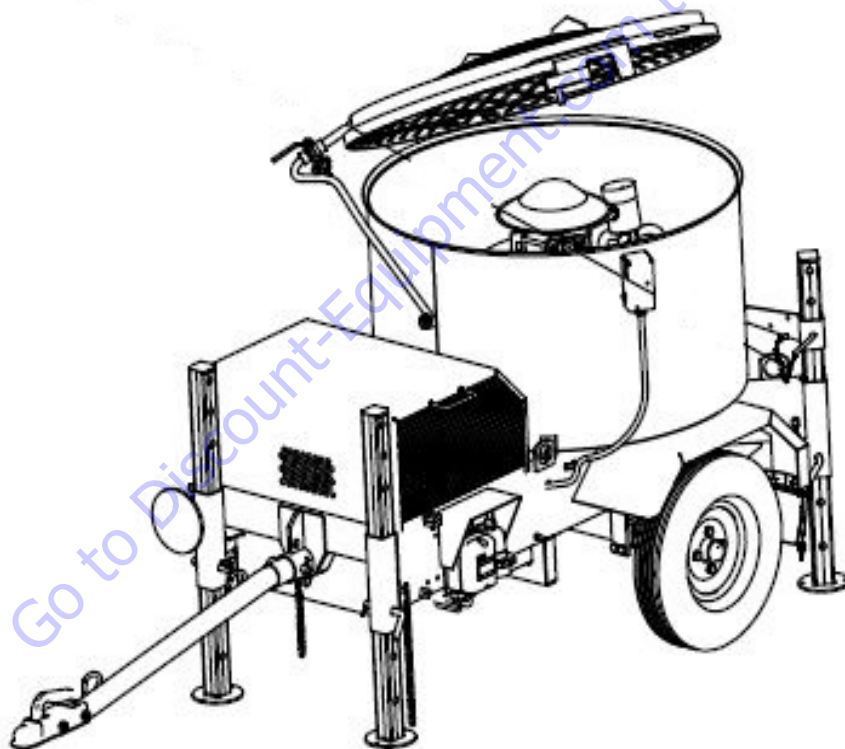


IMER U.S.A. INC.

MORTARMAN® 360"A" MortarMixer

INSTRUCTION MANUAL and PARTS LIST

MANUAL DE USO, MANTENIMIENTO y RECAMBIOS



Part. number 3211378 R02 - 2018/09

Machine serial N°



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Thank you for purchasing a Mortarman® 360 from an IMER U.S.A dealer.
Your decision is an intelligent one. There is no other mortar mixer in the world which delivers the benefits and features of the Mortarman® 360:

- Revolutionary horizontal mixing action.
- Oil bath gearbox, plenty of torque to mix materials wet or dry.
- Full width fenders and independent suspensionstandard gas or electric motors can be swapped back and forth in under an hour.
- Advance drum and paddle design, excellent mixing and discharge action.
- Telescopic foot stands which provide additional stability during operation.
- Reduced Maintenanceno zerks to grease or bearings to pack.

At IMER U.S.A we continually search for ways to better serve our customers.
Should you have an idea or thought to share with us regarding this product we would appreciate hearing from you. Our motto is "Tools and Services for the 21st Century". We look forward to delivering the goods.

Thank you again for your purchase,



Mace

IMPORTANT

MIXING INSTRUCTIONS

AGGREGATE BIGGER THAN 1/8" WILL DAMAGE MIXER

SAND SILO	PRE - MIX 60 lb	SILO
LIME	SPEC - MIX 80 lb	
CEMENT		
Set up mixer	Set up mixer	Set up mixer
Start mixer	Start mixer	Start mixer
Do not add water	Do not add water	Do not add water
1. Add 1/2 sand	1. Check bag weight	1. Add 1/2 of max load
2. Add lime	2. Determinate max load	2. Add 3/4 of water
3. Add cement	3. Add 1/2 of max load	3. Add rest of material
4. Mix materials dry	4. Add 3/4 of water	4. Add rest of water
5. Add 3/4 of water	5. Add rest of bags	5. Mix up thoroughly
6. Add rest of sand	6. Mix up thoroughly	
7. Add rest of water		
8. Mix up thoroughly		

MIXER DRUMCAPACITY

- 120:4.5 CUBIC FEET (250 lbs)***
- 240:9 CUBIC FEET (400 lbs)***
- 360:13 CUBIC FEET (700 lbs)***
- 750:27 CUBIC FEET (1700 lbs)***

* **WEIGHT IS COMBINED SAND, LIME, AND CEMENT MIXTURE**

Dear customer,
congratulations on your choice of purchase: the IMER cement mixer, the result of years of experience, is a very reliable machine equipped with all the latest technical innovations.


The machine can mix both dry or wet fine grain materials (plaster, mortar, cement, floor sub-bases, rendering, synthetic resins or pre-packed mixes).

WORKING IN SAFETY

In order to be able to work in complete safety, the following instructions must be read carefully

- This OPERATING AND MAINTENANCE manual must be kept on site by the person responsible for the site, e.g. the SITE FOREMAN, and must always be available for consultation.
- The manual should be considered as being an integral part of the machine, and must be kept for future reference (EN 292/2) until the machine itself is disposed of. If the manual becomes damaged or lost, a replacement can be obtained from the manufacturer.
- The manual contains important information regarding the preparation of the site, installation and use of the machine, maintenance and spare parts ordering. Nevertheless, the installer and operator must both have adequate experience and knowledge of the machine.
- In order that the safety of the operator, safe working and long life of the equipment can all be guaranteed, the instructions in this manual must be followed together with safety standards and health and safety at work laws currently in force (use of suitable footwear and clothing, use of helmets, gloves and goggles, etc. in accordance with S.I.N° 3073 of 30/11/92.

 **ALWAYS MAKE SURE THAT SIGNS ARE LEGIBLE**

 **It is strictly forbidden to carry out any form of modification to the structure or working parts of the machine.**

IMER International decline any responsibility in the case of non-compliance with laws and standards governing the use of this equipment. In particular: improper use, defective power supply, lack of maintenance, unauthorised modifications, partial or total failure to observe instructions contained in this manual.

1. DESIGN STANDARDS

The MIX360 mixer has been designed and constructed in accordance with the following standards:
IEC 34.1; IEC 34.5; EN292-1,EN292-2,EN60204-1.

2. NOISE EMISSION LEVEL

Table 2 indicates the noise level produced by the mixer, measured at the operator's ear (L_{pA} at 1 m - 98/37CE) and the environmental noise emission level (power L_{WA}) measured in accordance with EN ISO 3744 (2000/14/CE).


TABLE 2		
TYPE OF MOTOR	L _{pA} (dB)	L _{WA} (dB)
ELECTRIC	70	81
ENGINE	88	103

3. MIXING CAPACITY

The mixing capacity of the machine per cycle is 200 litres (approximately half of the tank height).

4. SAFETY MEASURES

- The IMER cement mixer can only function if all the safety devices with which it is equipped are in perfect condition.
- The machine will not operate if the mains connection is defective.
- On-site power connection lines must be installed so that they cannot be damaged. Do not stand the machine on the mains connection line.
- The power lines must be installed so that water cannot penetrate connections. Only use connectors fitted with protection against water spray.
- Repairs to the electrical plant must only be carried out by specialised personnel. Do not operate the mixer during maintenance or repair operations.
- Accident prevention and health and safety at work regulations must be complied with in the working area.

 **The machine must only be stopped using the appropriate switch.**

 **Do not open the tank protection cover to stop the machine.**

5. ELECTRICAL SAFETY

The IMER mixer complies with standards EN60204-1. In particular, it is equipped with a system that prevents automatic restart after the power supply line is interrupted.

- Residual current protection of electrical equipment
 - Electrical safety device that prevents the machine from operating when the tank protection cover is open.
- When used on construction sites, the mixer can be connected to an earthing system by attaching an earthing braid (or wire) of minimum section 16 mm² (see Fig. 2).

6. MECHANICAL SAFETY

- A guard over the outlet prevents access to the mixing zone.
 - The tank protection cover allows the mix components to be loaded without access to the mixing zone.
- The mixer will stop if the cover is opened.

7. TRANSPORT

 **WARNING!! Always disconnect the machine from the mains before moving it.**

- When on-site, the mixer can be moved manually from one location to another as shown in Fig. 3.
- For other types of handling, the mixer must be lifted using a four-cable sling attached to the lifting lugs, as shown in Fig. 4.

8. INSTALLATION

Lift the mixer (the mixer is fitted with a lifting jack - ref. 4, fig. 7).

- Screw in the outlet opening handle (see Fig. 6).
- If there are no lifting means available, lift the mixer using the jack supplied (see Fig. 7).
- 1 - Raise the rear supporting legs (Ref. 2 Fig. 7) to their maximum height and lock them in position using the locking pins.
 - 2 - Use the handle (Ref. 1 Fig. 7) to raise the machine, resting it on the rear legs (Ref. 2 Fig. 7).
 - 3 - Position the front legs (Ref. 3 Fig. 7) (towing side) at the height required and lock them using the locking pins.
 - 4 - If the machine is to be positioned at maximum height, insert the lower lug (Ref. 5 Fig. 7) in the support (Ref. 7 Fig. 7), raise and lock the rear legs (Ref. 2 Fig. 7) at the third hole from the bottom.
 - 5 - Remove the lower fork connection Ref. 5 and lower the jack so that the upper fork connection can be inserted (Ref. 6 Fig. 7), then complete the lifting operation.

For intermediate working levels, the rear part of the machine should be lifted in a single operation, as in points 1 and 2, by using the lower connection point on the jack (Ref. 5 Fig. 7).

To return the machine to the towing position, follow this procedure in reverse order.

Position the machine on level ground, adjusting the telescopic legs to the required height.

Ensure that the machine is in a stable working position.

9. USE

- Do not allow other people to remain in the vicinity of the machine during operation.
- Do not use the machine in a fire-risk zone. Sparks may cause fires or explosions.
- Always switch off the machine before leaving it unattended.
- The machine must only be transported or positioned with the motor switched off.

9.1 START-UP

9.1.1 ELECTRICAL CONNECTION

- Check that the supply voltage is the same as dataplate specifications.
- Ensure that the power supply line is fitted with a differential protection device upstream.
- Connect the machine to the earthing plant and the mains power supply.
- Ensure that the blades rotate in a clockwise direction.
- If the paddles rotate in an anti-clockwise direction, stop the machine, disconnect the mains plug and invert one of the phases inside the plug, by rotating the inverter slot between the pins using a screwdriver (Fig. 8).
- Start the motor by pressing the black on/off pushbutton on the control panel.

9.1.2 ENDOTHERMIC MOTOR

- Check the motor (see motor manual).
- Check the motor oil level (see motor manual).
- Fill the fuel tank (see motor manual).

-Start the motor, following the instructions contained in the motor manual.

-Allow the motor to warm up at reduced rpm.

-Increase the rpm to maximum using the accelerator lever mounted on the frame.

Machines with an endothermic motor are fitted with a centrifugal expanding clutch mounted on the motor.

The clutch enables the paddle rotation speed to be increased gradually, which can be stopped when the motor is operating at minimum rpm.

Motor operating speed can be controlled by means of the accelerator lever (rif. 5, tab. 9).

9.2 WORKING CYCLE

⚠️ WARNING! Check that the machine stops rotating when the tank protection cover is lifted.

Start-up the machine with the tank empty.

-With the water supply connected to the mains, start feeding water by opening the valve mounted on the tank, and add the cement and aggregate.

-The tank protection grid is fitted with a bag splitter to enable pre-packed mixes to be used.

-When the mix has reached the required consistency, place a suitable container under the outlet and, keeping the paddles moving, open the outlet using lever Ref. 1 (see Fig. 9).

Lift the lever to position A and push it as far as possible to position B.

To close the outlet, return the lever to Pos. C.

⚠️ Avoid starting the machine with a full load.

Do not overfill the tank (see 3. MIXING CAPACITY).

10. EMERGENCY STOP

⚠️ In the event an electric motor fault, press the OFF pushbutton (Ref. 17 Fig. 1) and disconnect the mixer from the power supply. In the case of endothermic motors, move the acceleration lever to the minimum position.

⚠️ The motor is protected from thermal overloads. If it overheats it will stop. It must be allowed to cool before restarting.

11. MAINTENANCE

⚠️ WARNING! Before carrying out any form of maintenance work, always switch off the mixer.

-Replace worn or faulty components using original spare parts.

-Check the oil level through the transparent level indicator on the side of the reduction gear casing.

-Change the oil in the reduction gear with SAE 90 oil after 2000 hours of work (approximately 0.9 Kg).

-To top up or replace the oil, used the filler pipe (ref. 1, fig. 10). Lift the motor casing to gain access to the filler.

⚠️ Used oil is classified as special waste and must be treated as such in accordance with laws in force.

⚠️ Always ensure that writing and other instructions on the machine are legible.

⚠️ Always ensure that the protection devices are undamaged and efficient.

-At the end of the work session, remove dirt and/or any other deposits formed during mixing by washing thoroughly (to wash the machine, use the wash-water hose with pressure regulator, Ref. 51 Tav. 1, mounted on the mixing tank valve).

⚠️ Check the condition of the power cable before using the machine; it may have become inadvertently or unknowingly damaged.

-Check the endothermic motor according to the instructions contained in the motor manual.

If guards are removed due to maintenance requirements or other exceptional circumstances, proceed as described below, and always refit the guards before resuming operation.

11.1 COVER PROTECTION ADJUSTMENT (FIG. 11)

The adjustment of the limit switch must be carried out with the tank protection cover lowered.

Move the limit switch to the correct position using the slots and re-tighten the screws for diesel engine.

The filling side cover grid opening is protected by a interlocked cut off device that stops the engine as the protection cover is lifted, the adjustment is carried out by correcting the length of the wire and re-tighten the screw.

⚠️ WARNING

Check that the machine stops when the tank protection cover is lifted

11.2 OUTLET PROTECTION REMOVAL (Réf.Fig.12)

- Slacken screws Ref. 2 and remove protection Ref. 1.

- To replace the protection, align the holes with those of brackets Ref. 3 and tighten with screws Ref. 2. Use spanner N° 17.

11.3 MIXING PADDLE REPLACEMENT (Fig.13)

- Lift the tank protection grid Ref. 1.

- Remove head protection Ref. 2, rotating it in an anti-clockwise direction.

- Slacken screws Ref. 3 and nuts Ref. 4. Use open-ended spanner N° 17 and Allen key N° 6.

- Remove the paddle clamps Ref. 5, 6 and 7 and replace the worn rubbers Ref. 8, 9 and 10. Inserting the new rubbers between holders Ref. 11, 12 and 13 and clamps Ref. 5, 6 and 7. Utilize the slots to adjust as necessary and lock in position with nuts and bolts Ref. 3 and 4.

- Push arm Ref. 14 to manually rotate the paddles in a clockwise direction, checking the mating of the rubbers with the tank.

- If there are zones where the rubber is not in contact with the tank, repeat the adjustment. Re-adjust utilizing the slots in brackets Ref. 15 and 16 if necessary.

- Replace and lock in position protection Ref. 2, rotating it in a clockwise direction. Lower the cover grid Ref. 1.

11.4 TENSIONING AND REPLACING TRANSMISSION BELTS

11.4.1 MIXERS FITTED WITH ELECTRIC MOTOR (Fig. 14)

1. Unscrew the locking screws and lift the motor casing.

Use spanner N° 6.

2. To tension the belts, slacken nut Ref. 1, tighten nut Ref. 2 and re-tighten nut Ref. 1. Use spanner N° 19.

3. To replace the belts, slacken nut Ref. 2 and nut Ref. 1, remove the old belts. Replace them with new belts of same characteristics. Tension as described in point 2.

4. Lower the casing and lock in position with the locking screws.

11.4.2 MIXERS FITTED WITH ENDOTHERMIC MOTORS (Fig. 15)

1. Unscrew the locking screws and lift the motor casing. Use spanner N° 17.

2. To tension the belts, slacken nut Ref. 1, tighten nut Ref. 2 and re-tighten nut Ref. 1.

3. To replace the belts, slacken nuts Ref. 1 and Ref. 2, remove the old belts. Replace with new belts of same characteristics. Tension as described in point 2.

4. Lower the casing and lock in position with the locking screws.

- Check the tension of the transmission belts after 4 hours from first start-up and after each belt change, otherwise check the tension every 18-20 hours.

⚠️ When replacing transmission belts, remember that a too tight belt will cause damage to shafts and bearings, a too slack belt will wear out rapidly.

11.4.3 REQUIREMENTS FOR CORRECT TRANSMISSION BELT TENSIONING (Fig. 16)

To ensure correct tension of the transmission belts, apply a force "F" (0.9 kg) on the centre of section "S"; distance "f" should be as specified in the table in Fig. 16.

12. TROUBLESHOOTING

⚠ WARNING!

Switch the machine off by pressing the OFF pushbutton and disconnect from power supply before carrying out any maintenance operations.

PROBLEM	CAUSE	REMEDY
(MIXER WITH ELECTRIC MOTOR) The motor does not start when switched on.	- No power in the supply line	- Check the line
	- The electric plug and socket are not connected properly	- Make a proper connection
	- The cable from the plug to the electric panel is broken	- Replace the cable
	- A wire has become disconnected inside the panel	- Re-make the connection
	- A wire has become disconnected on the motor terminal board	- Re-make the connection
	- The pushbutton is faulty.	- Replace the pushbutton.
	- The protective cover is open	- Close it
	- The limit switch is faulty	- Replace it
	- A wire has become disconnected inside the limit switch	- Re-make the connection
The endothermic motor does not start		- See motor manual
The discharge outlet leaks water	- The sealing gasket is worn	- Replace the rubber
	- The spring is broken or ineffective	- Replace the spring
Scraper rubbers do not mate with the tank	- Worn rubbers	- Replace the rubbers and/or adjust their position (11.3 MIXING PADDLE REPLACEMENT)
The outlet will not open	- Deposit in the outlet protector	- Remove and clean the outlet (11.2 REMOVAL OF TANK PROTECTION COVER)
During mixing, the paddle rpm decreases or paddles stop	- Belts are slack and are slipping	- Tension the belts (11.4 TENSIONING AND REPLACING TRANSMISSION BELTS)
Water does not arrive at the tank	- There is no water in the feed line	- Change the feed line
	- Water hose or valve blocked	- Clean the hose or valve
The blades do not stop when the protection cover is raised	- Limit switch not mounted correctly	- Adjust position of limit switch (11.1)
	- Cam not mounted correctly	- Refer to limit switch adjustment instructions (11.1)

13. RESIDUAL RISKS AND SAFETY NOTICES

Although the machine is constructed in line with established legislation, certain residual risks cannot be eliminated and require the use of individual safety equipment. The machine is equipped with notices to indicate the residual risks and how to avoid them.

NOISE HAZARD



Wear ear defenders

HAND CRUSHING/SHEARING HAZARD



Wear gloves

EYE INJURY HAZARD



Wear safety glasses

INCORRECT USE HAZARD



Read the manual before operating the machine

TRAPPING/CRUSHING AND SHEARING HAZARD



Do not remove the guards



Do not touch drive components

ELECTROCUTION HAZARD



Danger - electrical power

Note that the employer is responsible for ensuring his workers use individual safety equipment.

DANGER INHALATION POWDER



ALWAYS avoid inhalation of and skin contact with silica dust and/or mist. Provide proper dust removal. Use dust-collection system when applicable.

⚠ CAUTION !!!

Keep the hands away from the outlet.

SILICA DUST WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow respiratory precautions.

Use appropriate NIOSH-approved respiratory protection where dust hazard may occur. Paper masks or surgical masks without a NIOSH approval number are not recommended because they do little to protect the worker. For more information about respirator programs, including what respirators have received NIOSH approval as safe and effective, please visit the NIOSH website at: <http://www.cdc.gov/niosh/topics/respirators>

Observe OSHA regulations for respirator use (29 C.F.R. § 1910.134).
Visit <http://www.osha.gov> for more information.

California proposition 65 message

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:

<http://www.osha.gov/dsg/topics/silicacrystalline/index.html>

<http://www.cdc.gov/niosh/docs/96-112/>

<http://oehha.ca.gov/prop65/law/P65law72003.html>

<http://www.dir.ca.gov/Title8/sub4.html>

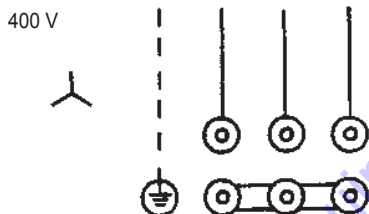
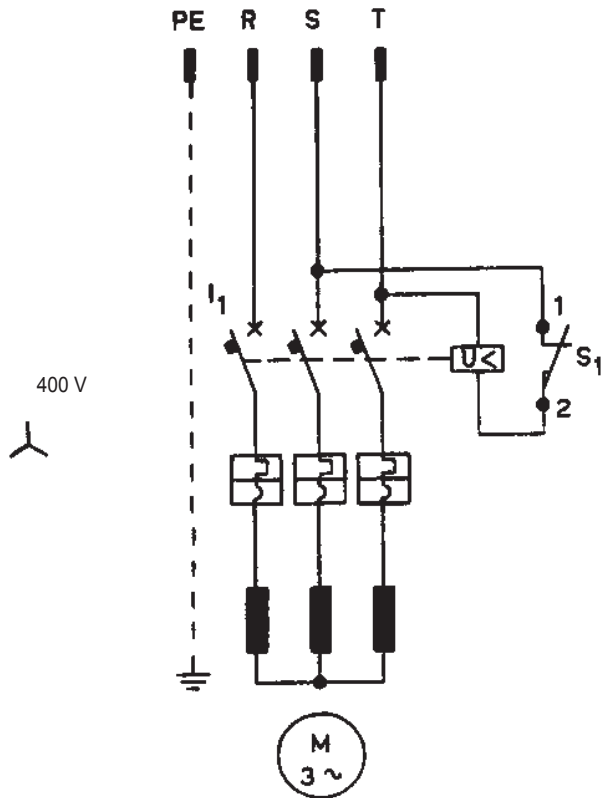
<http://www.P65warnings.ca.gov>

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Where use of a dust extraction device is possible, it should be used. To achieve a high level of dust collection, use an industrial HEPA vacuum cleaner. Observe OSHA 29 CFR part 1926.57 and 1926.103.

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16A h6

400V / 50-60Hz

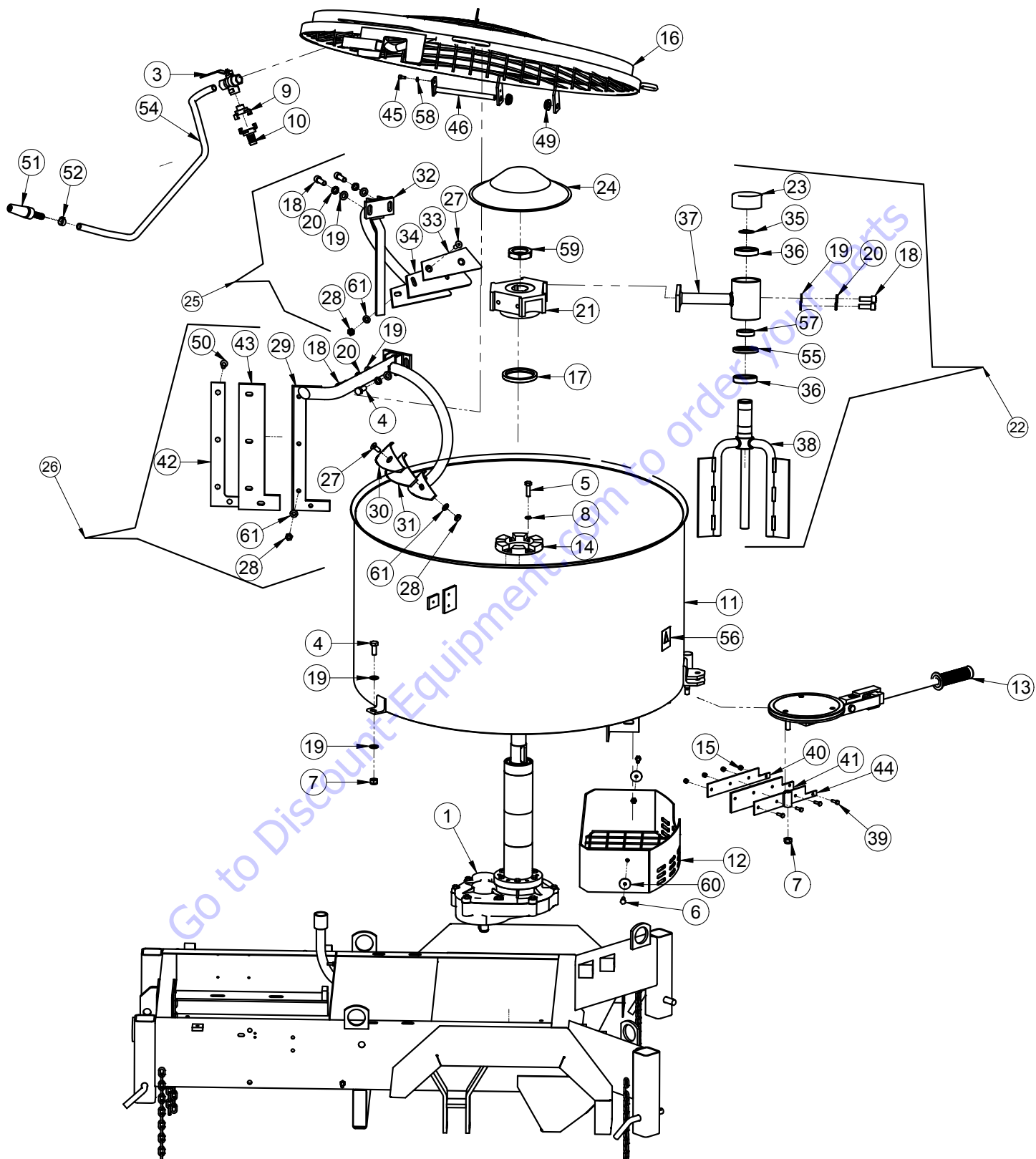


	DESCRIPTION
I1	4-6,3 (A) SWITCH + COIL
M	MOTOR
S1	LIMIT SWITCH
PE	EARTH LINE WIRE
R	PHASE LINE WIRE 1
S	PHASE LINE WIRE 2
T	PHASE LINE WIRE 3

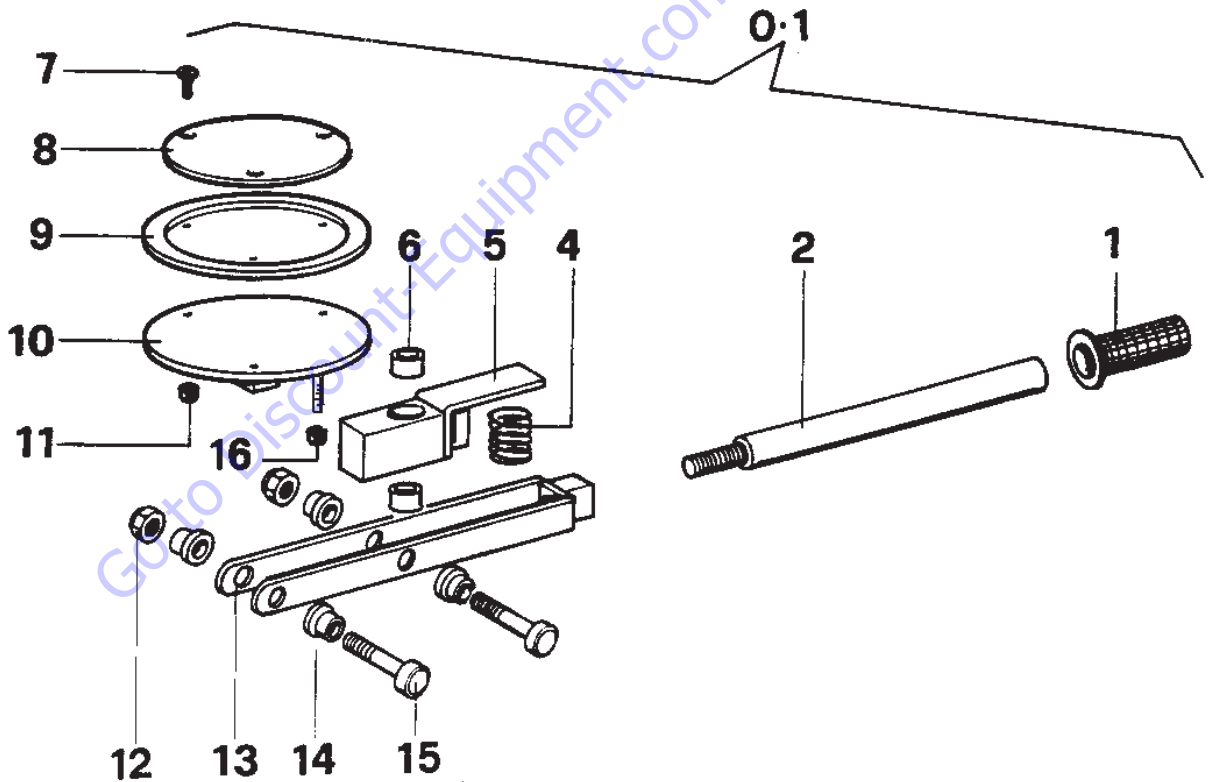


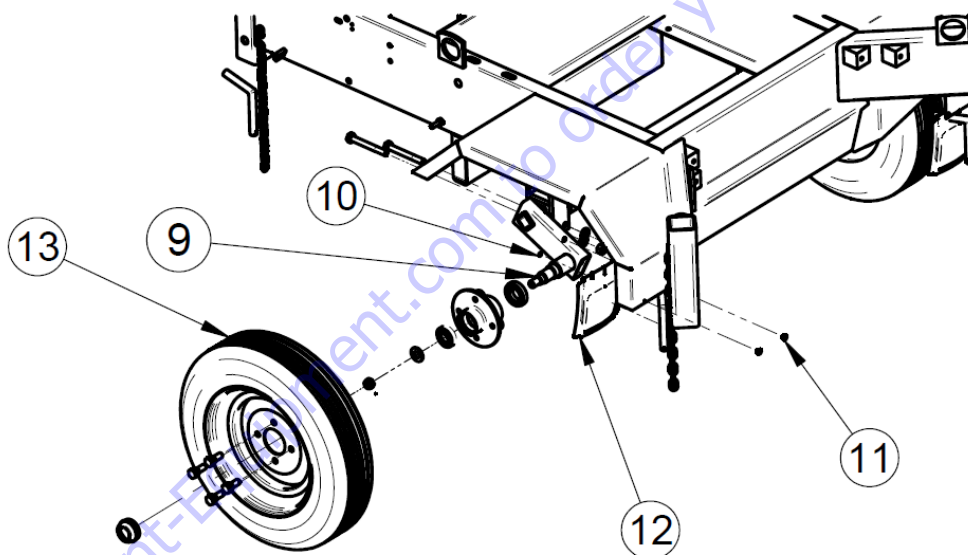
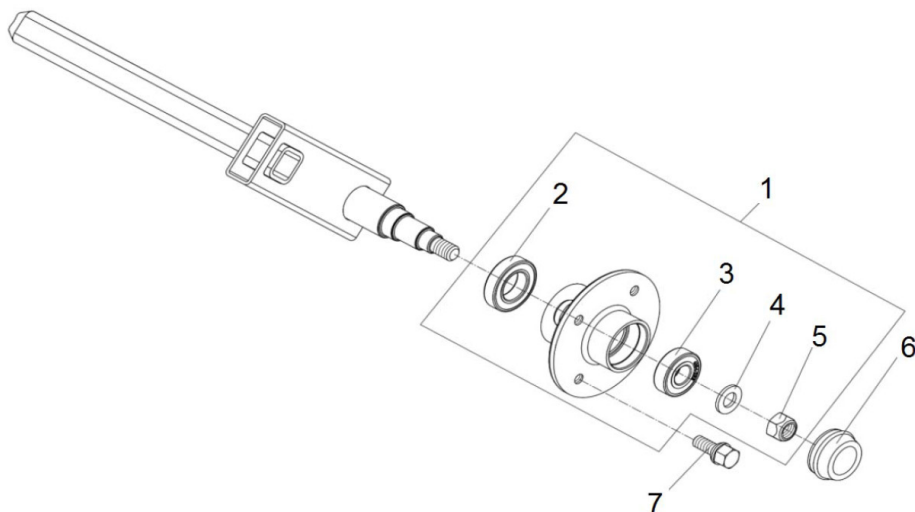
TAV. 1		DESCRIPTION	NOTE
Rif.	COD.	TANK ASSEMBLY	
1	2206763	REDUCTION GEAR	
3	2218068	TAP	
4	2222181	BOLT	5739 M12x30
5	2222073	BOLT	5739 10X35
6	2222076	BOLT	5739 M8x25
7	2223921	NUT	Autobl.M12
8	2224910	WASHER	Dev.C72 Ø10z
9	3224203	FITTING	
10	2226800	FITTING	
11	3210979	TANK	
12	3211274	PROTECTION	
13	3211022	ROUND NOZZLE	
14	2236593	BOLT PROTECTOR	
15	2223924	NUT	AUTOBL. M 6
16	3228545	PROTECTION GRID	
17	2207750	OIL SEAL RING	
18	2222550	BOLT	UNI5931 M12x35
19	2224380	WASHER	6593 Ø12X25
20	2224900	WASHER	Dev. C72Ø12z
21	2250334	HEAD	
22	3211025	ROTATING PADDLE	
23	2257710	PROTECTION	
24	2252604	PROTECTION	
25	2250916	PADDLE ASSEMBLY	
26	3211028	PADDLE ASSEMBLY	
27	2222599	BOLT	5933 M10X15
28	2223655	NUT	5589 M10
29	3211607	PERIPHERAL S CRAPER	
30	2294771	PADDLE	
31	2250934	RUBBER	
32	2250919	PADDLE HOLDER	
33	2294770	PADDLE	
34	2250935	RUBBER	
35	2227220	STOP RING	
36	2204505	BEARING	
37	3211026	ARM	
38	3206002	MIXER	
39	2222016	BOLT	5739 M6X20
40	3211600	OUTLET SCRAPER	
41	2247876	RUBBER	
42	3211033	BACKING PLATE	
43	3211036	RUBBER	
44	2253853	BACKING PLATE	
45	3211383	BOLT	UNI 5739 M6X16
46	2201912	PIN	
49	2209953	BUSH	
50	2222601	BOLT	5933 M10x30
51	2218069	FIXED NOZZLE	
52	2225741	CLIP	
53	2226779	HOSE CONNECTOR	
54	2292356	RUBBER HOSE	
55	3205992	OIL SEAL RING	
56	2288205	ADHESIVE LABEL	
57	3206003	RING	
58	2224920	WASHER	M6 Z
59	2223840	NUT	
60	2224190	WASHER	8X32 Z
61	2224340	WASHER	M10X20 Z

TAV. 1



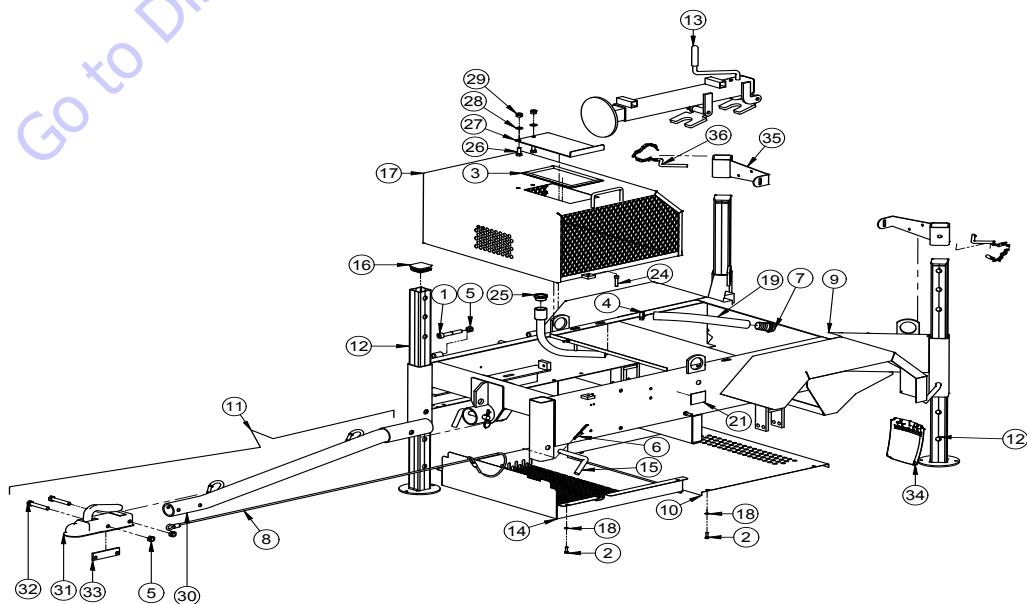
TAV. 2		DESCRIPTION	NOTE
RIF.	COD.	OUTLET ASSEMBLY	
0.1	3211022	OUTLET ASSEMBLY	
1	2288885	HANDLE	
2	2259894	OUTLET LEVER	
4	2231301	SPRING	
5	2237795	JOINT	
6	2209822	BUSH	
7	2222600	BOLT	963 M6x26
8	2225033	DISC	
9	2292581	GASKET	
10	2253863	DISC	
11	2223924	NUT	
12	2223920	SELF LOCKING NUT	AUTOBL. M 6
13	2254015	FORK	7474 M10
14	2209821	BUSH	
15	2223006	BOLT	
16	2223921	SELF LOCKING NUT	7474 M12



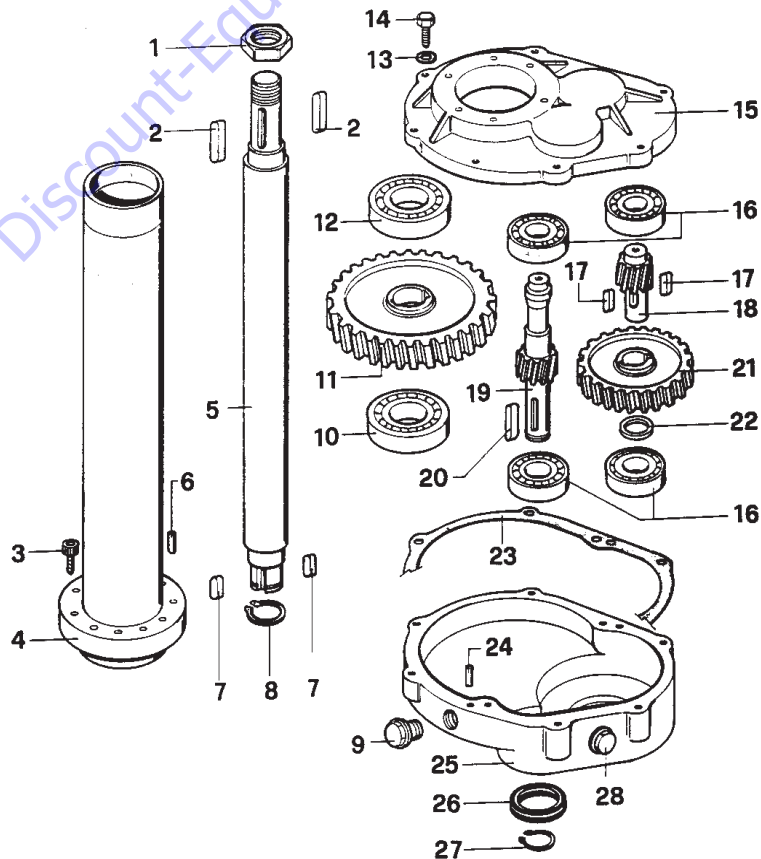


TAV. 3		DESCRIPTION	NOTE
RIF.	COD.	TOWING ASSEMBLY	
1	3236429	HUB	
2	3210629	BEARING	
3	2204560	BEARING	
4	2224640	WASHER	16x33x3 Z
5	3236427	SELF LOCKING NUT	
6	3236428	COVER	
7	3234146	BOLT	
9	3236410	AXLE	
10	2224532	WASHER	4x8 Z
11	3236412	RIVET	
12	3236412	SPLASH GUARD	
13	2211407	WHEEL	

TAV. 4		DESCRIPTION	NOTE
RIF.	COD.	FRAME ASSEMBLY	
1	2222566	BOLT	5931 M12X80
2	2222016	BOLT	6950 M6X20
3	2216277	GASKET	
4	2225745	CLIP	
5	2223921	NUT	AUTOBL.M10
6	2226700	SPLIT PIN	
7	3211268	NIPPLES	
8	3225284	SECURITY CABLE	
9	3210977	FRAME	
10	3201044	PROTECTION	
11	3230525	HANDLE/TOW BAR	
12	2256128	LEG	
13	3210978	JACK	
14	3211047	PROTECTION	
15	2256600	PIN	
16	2257705	TERMINAL	
17	3211087	CASING	400v 50 Hz
	3211052	CASING	Honda - Hatz
18	2224530	WASHER	
19	2292370	RUBBER HOSE	
21	3211110	IDENTIFICATION PLATE	400v 50Hz
	3211106	IDENTIFICATION PLATE	Honda
	3226905	IDENTIFICATION PLATE	Hatz
24	2222530	BOLT	
25	2235460	PLUG	
26	2222056	SCREW	5739 M 10X25
27	2259537	COVER	
28	2224340	WASHER	6592 Ø10X20
29	2223920	SELF LOCKING NUT	7474 M10
30	3230526	HANDLE/TOW BAR	MS4-900004
31	3208565	HEAD TOWING	
32	2222049	BOLT	5737 12X80 z
33	3209781	TIMONE PLATE	
34	3236412	SPLASH GUARD	
35	3230304	SUPPORT	
36	3208587	PIN	

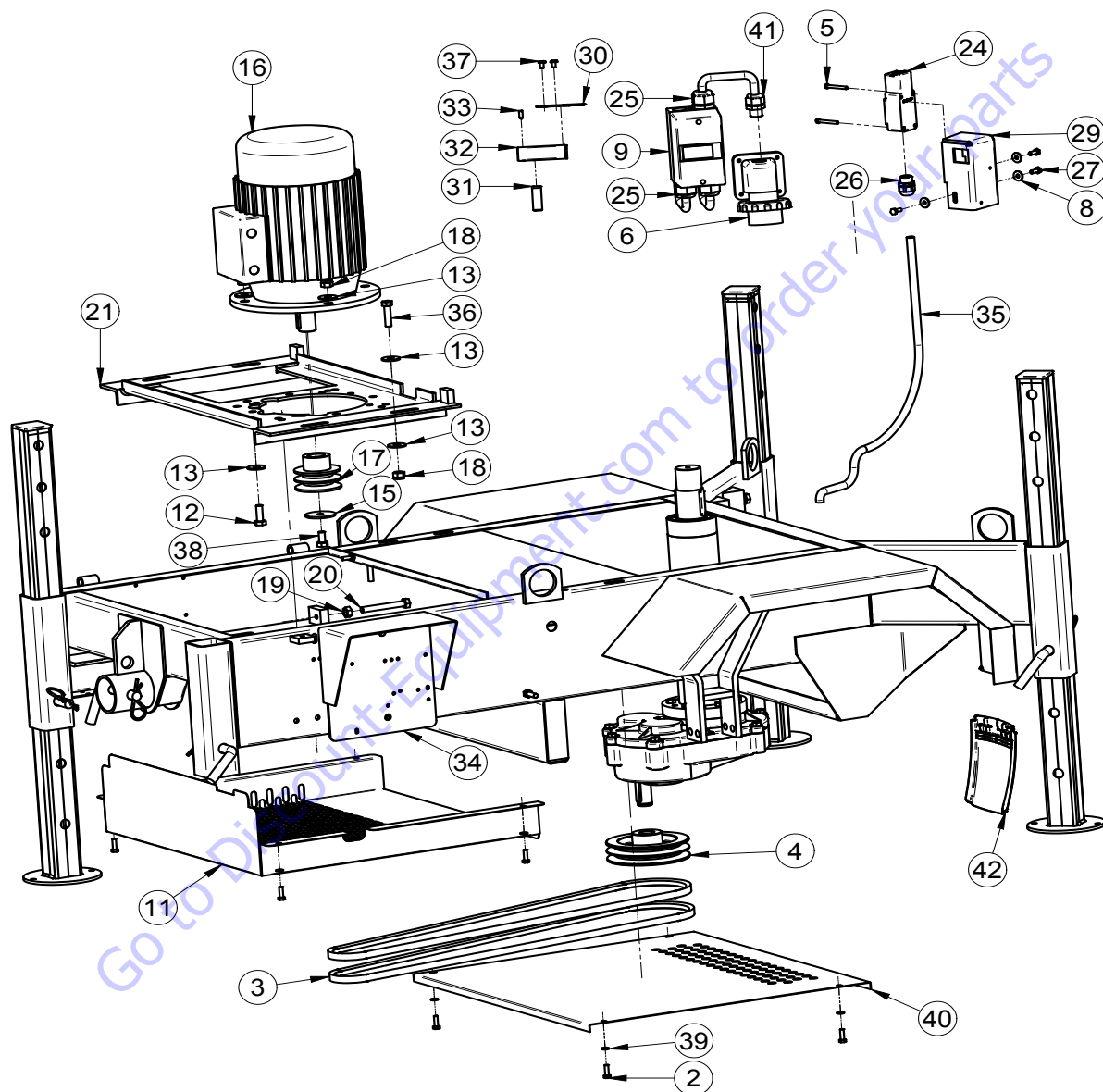


TAV. 5		DESCRIPTION	MIX 360
RIF.	COD.	REDUCTEUR GEAR	NOTE
1	2223840	NUT	5589 MB42
2	2229602	KEY	10X8X50
3	2222530	BOLT	5931 8X35 Z
4	2258007B	ROD	
5	2201161	CENTRAL SHAFT	
6	2228740	GROUND PIN	
7	2229549	KEY	10X8X30
8	2227260	STOP RING	3653 E34
9	2235420	OIL LEVEL PLUG	
10	2204509	BEARING	
11	2202517	GEAR	
12	2204510	BEARING	
13	2224140	WASHER	Ø 8X18
14	2222006	BOLT	5739 M8X30
15	2236735	FLANGE	M 21
16	2204550	BEARING	6205
17	2229450	KEY	8X7X20
18	2202858	PINION	
19	2202871	PINION	
20	2229400	KEY	6604 8X7X30
21	2202526	GEAR	
22	2237256	SPACER	
23	2216319	GASKET	
24	2228820	GUDGEON PIN	Ø 6X14
25	2215092	REDUCTION GEAR CASING	
26	2207301	OIL SEAL RING	42X25X7
27	2227270	STOP RING	3653 E24
28	3211268	PLUG	



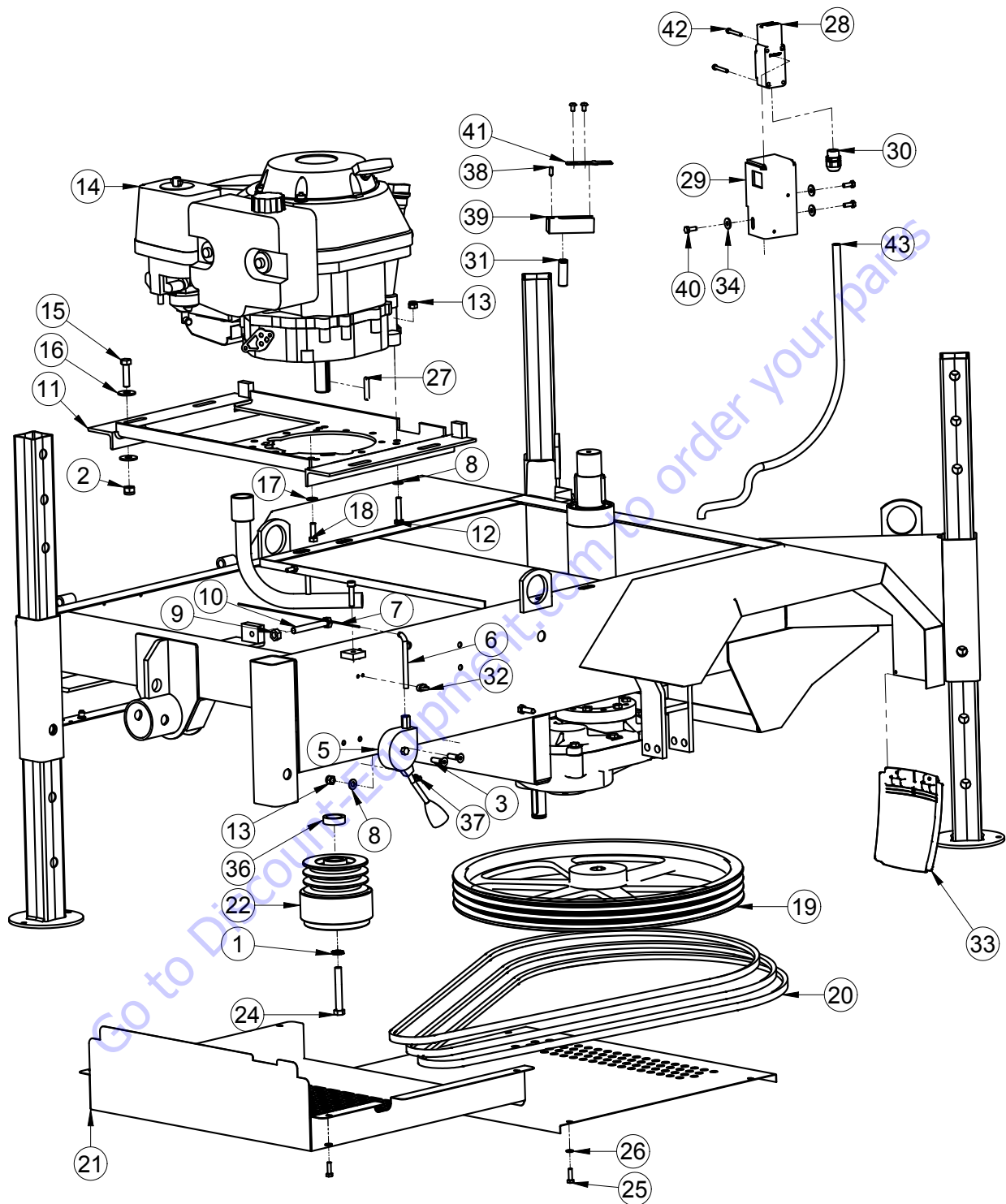
TAV. 7		DESCRIPTION	NOTE
Rif.	COD.	ASSEMBLY OF MOTOR 400V 50Hz	
2	2222016	BOLT	5739 6x20z
3	3228538	BELT	AX 63
4	2205538	PULLEY	DP 130 2A
5	2222581	BOLT	
6	3201598	PLUG	
8	2224531	WASHER	6593 6x18z
9	3236670	SWITCH	
11	3211047	PROTECTION	
12	2222146	SCREW	5739 M10X30
13	2224260	WASHER	Ø10X30 z
15	1224113	WASHER	6593 Ø10X50
16	3228506	ELECTRIC MOTOR	Kw 3 - 400V/50Hz
17	2205581	PULLEY	DP 100 2A
18	2223920	NUT	AUT. 7474 M10
19	2223650	NUT	uni-5588 M10
20	3211076	BOLT	M10x80z
21	3211057	MOTOR MOUNTING PLATE	
24	3211073	LIMIT SWITCH	
25	3211826	CABLE CLAMP	25X1.5
26	3211096	CABLE CLAMP	PG 13.5
27	2222021	BOLT	5739 M6X16z
28	2223920	NUT	AUT. 7474 M10
29	3211767	SUPPORT	
30	3231562	SPANNER	
31	3211067	PIN	
32	3211064	SUPPORT	
33	3211075	BOLT	7380 M6X40
34	3211091	SUPPORT	
35	3211391	SHEATH	
36	2222098	SCREW	5739 M10X40
37	3211360	SCREW	M.6X10 ISO 7380
38	2222077	SCREW	M 10X20 Z
39	2224530	WASHER	6X12.5Z
40	3201044	PROTECTION	
41	3228572	CABLE CLAMP	
42	3236412	SPLASH GUARD	

TAV. 7

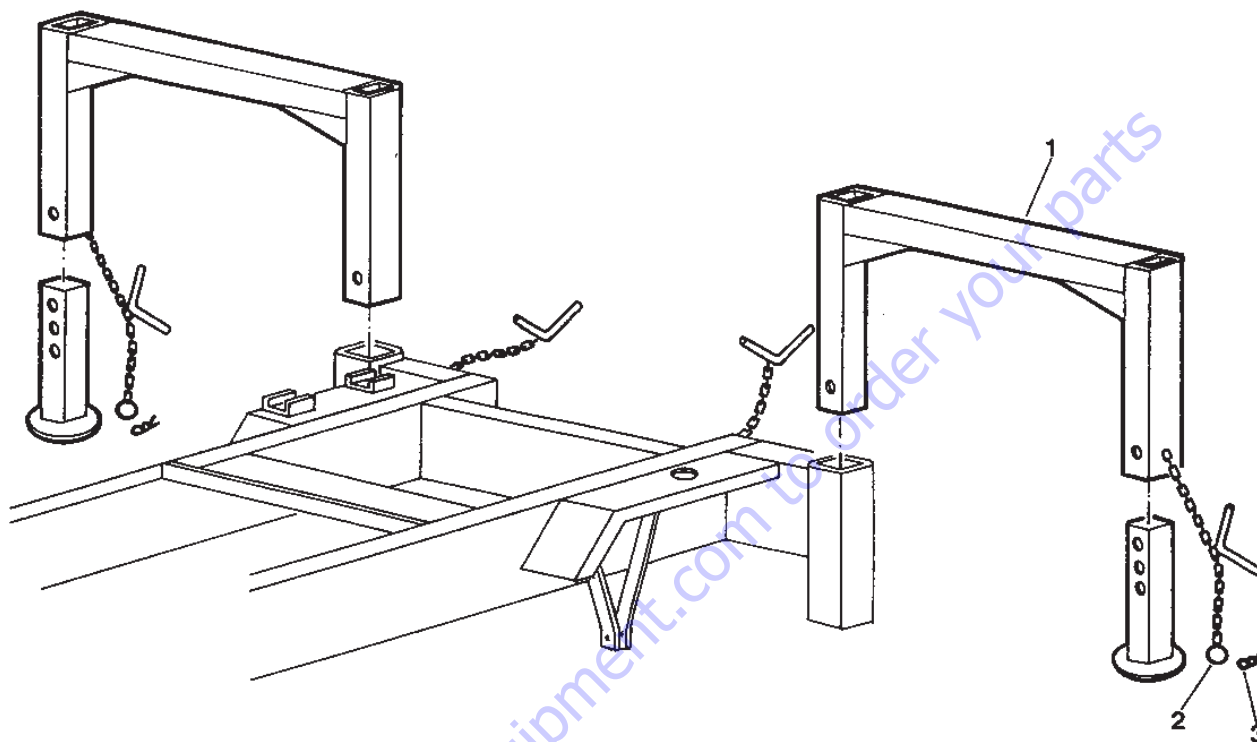


TAV. 8		DESCRIPTION	NOTE
RIF.	COD.	ASSEMBLY OF MOTOR HONDA - HATZ	
1	2224910	WASHER	DEV.C72 Ø10Z
2	2223920	SELF LOCKING NUT	7474 M10
3	3211077	BOLT	5933 M8X30
5	2284805	HANDLE	
6	2284398	SHEATH AND FERRULE	
7	2212120	CABLE ACCELERATOR	
8	2224140	WASHER	Ø 8X18
9	2223650	NUT	5588 M10Z
10	3211076	BOLT	5739 M10X80Z
11	3211057	ENGINE MOUNTING PLATE	
12	2222088	SCREW	5737 M 8X40
13	2223923	SELF LOCKING NUT	M.8
14	3211406	MOTOR	HONDA GXV340
	3230277	MOTOR	HATZ 1B40V 1"
15	2222098	BOLT	5739 M10X40
16	2224260	WASHER	6593 Ø10X30Z
17	2224940	WASHER	DEV. Ø8Z C72
18	2221994	BOLT	
19	3211428	PULLEY	3A DP=500 F24
20	3211710	BELT	A 90
21	3211047	PROTECTION	
22	2289357	CLUTCH	
24	2221997	SCREW	7/16x70z
25	2222016	BOLT	5739 M6X20z
26	2224530	WASHER	Ø6x12.5Z
27	2229327	KEY	4X6.5 UNI 6606
28	3231573	LIMIT SWITCH	
29	3211767	SUPPORT	
30	3211096	SHEATH GROMMET	PG 13.5
31	3211067	PIN	
32	2239400	SPRING CATCH	
33	3236412	SPLASH GUARD	
34	2224531	WASHER	6x18z
36	2237748	SPACER	
37	2225796	CLAMP	
38	3211075	BOLT	7380 M6X40
39	3211064	SUPPORT	
40	2222021	BOLT	M6X16z
41	3231562	SPANNER	
42	2222581	BOLT	
43	3211391	SHEATH	

TAV. 8



TAV. 10		DESCRIPTION	MIX 360
RIF.	COD.	LEG EXTENSION KIT (OPTIONAL)	NOTE
1	3200457	Leg extension	
2	2227048	Key ring	
3	2226715	Split pin	M 12



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