

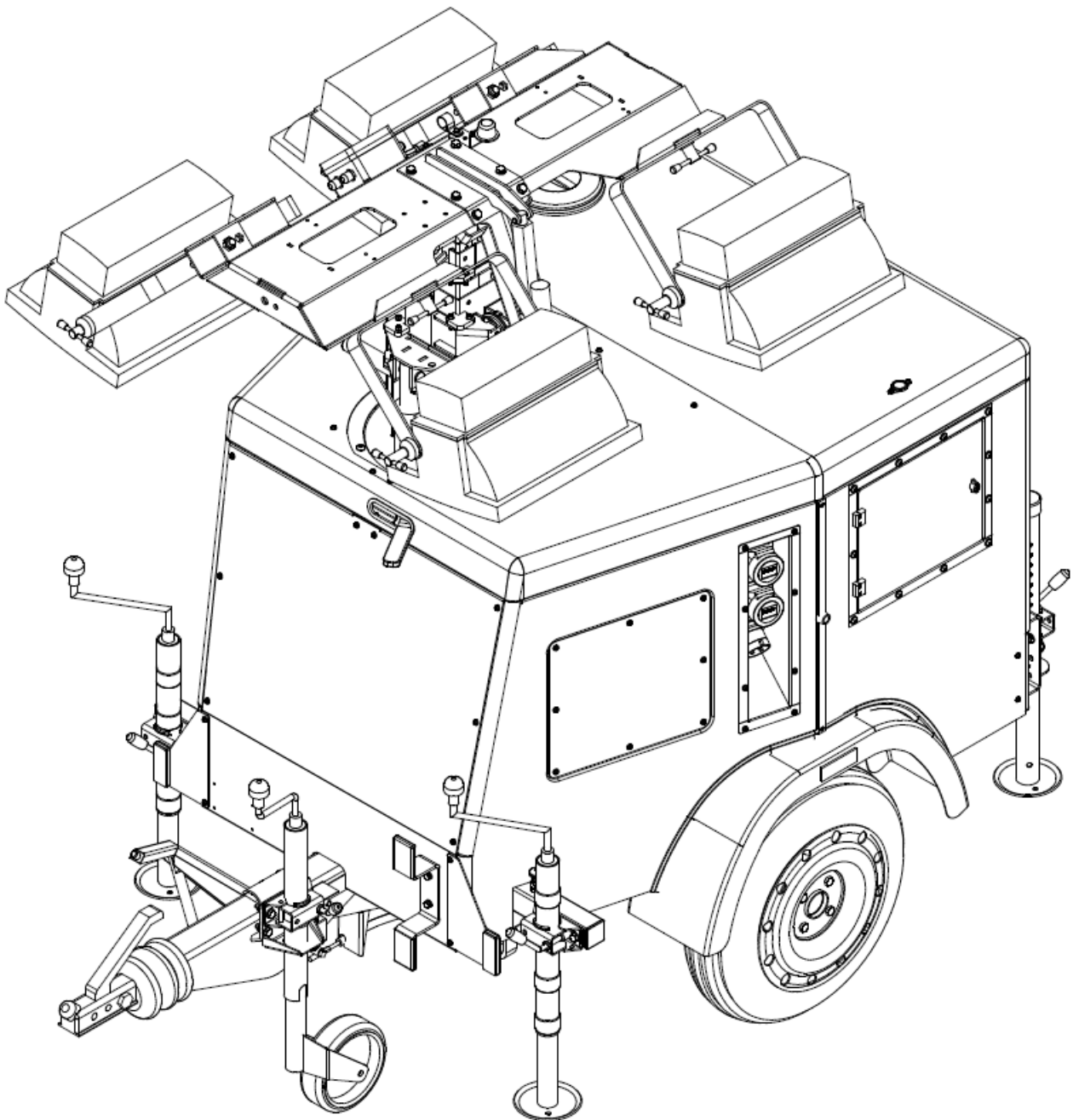


**HIMOINSA**  
THE ENERGY

# LIGHTING TOWER / PARTS MANUAL

Model: APOLO COMPACT HTYW-7KVA RAL 2002

**Engine:** YANMAR 3TNV76 GGEH  
**Alternator:** MECCALTE ECP28 XS/4



PARTS MANUAL Rev: 12.5

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

Update Date: Jul. 9, 2020



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### NOTICE

Specifications are subject to change without notice.



.Update Information.

PAGE	ITEM NO.	TYPE	V12.3	V12.5	DESCRIPTION
			PART NO.	PART NO.	
25	182	CHANGE	8013669	8071146	AXLE FOR COMPACT LIGHTING TOWER 1180MM (B1200-5)
41	136	CHANGE	8043192	8065854	HYDRAULIC PUMP LT 12VDC 20Mpa
	153		8025846	8052624	LIGHT DISTRIBUTION BOX LED BIG PRE-ASS M7
43	235	CHANGE	8032661	8067121	FRONT LEFT COVER FOR NEW POWER BOX L/T 8KVA RAL2002 PRE-ASS
45	132	CHANGE	8038809	8070595	EMERGENCY SWITCH KIT PRE-ASS
48	13	CHANGE	8028260	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT
53	2	CHANGE	8028260	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT
69	27	CHANGE	8010152	8026891	APOLO COMPACT SUPPORT PLATE FOR 6 LAMPS RAL9005
71	9	CHANGE	8025847	8061865	DUMMY LIGHT DISTRIBUTION BOX SMALL 6xLED
	24		8026892	8026891	APOLO COMPACT SUPPORT PLATE FOR 6 LAMPS RAL9005
	25		8025270	8061870	LAMP DEVICE KIT 240W LED PR TG204 COB
73	18	CHANGE	8002000	8061570	SPRING FIXED CABLE 1530 L/T 8KVA
75	85	CHANGE	8032592	8067120	SOCKET AND WH LONG BOX V4 L/T 8KVA 230V HAS RAL2002 PRE-ASS



## .FEATURE.

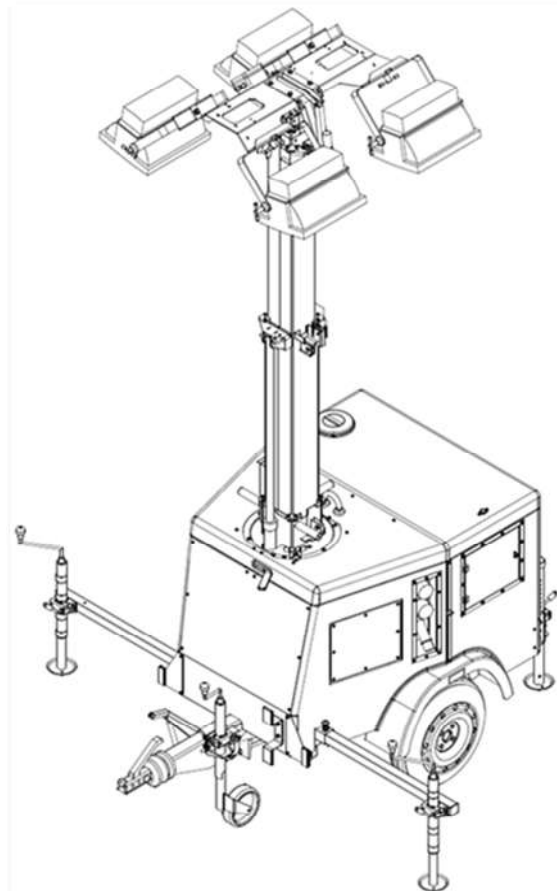
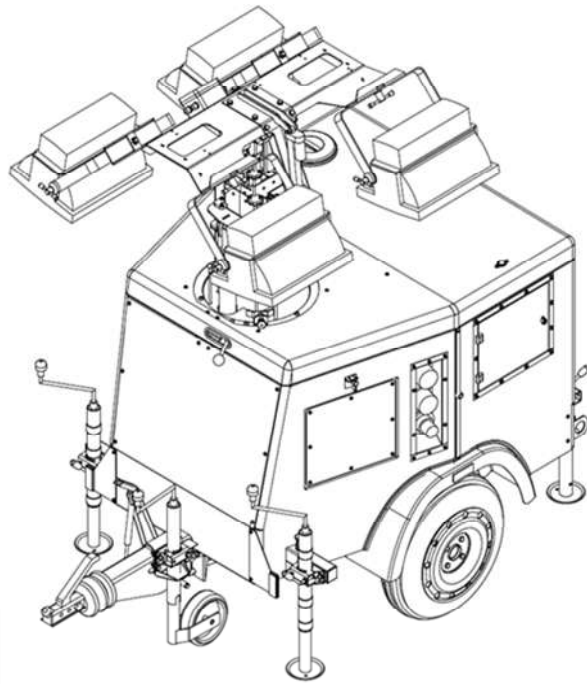
### Apo1o-COMPACT

#### Features

Mast Lifting & Extension    Hydraulic Operation
(Almost 9mt) light height at full extension for excellent illumination at long distances
360 degree tower rotation to provide pin-point light positioning at your work site
4,000watts of Metal Halide Floodlight enough to illuminate 30,000 square meters
Quiet 65dBA sound levels at (7m)
Excellent fuel economy providing up to 60 hours of run time per tank of fuel
Maintenance-friendly electrical assemblies make troubleshooting, service and repair a breeze
3 cylinder diesel engine powers a brushless self regulated type generator
Center point lifting bracket and fork lift pockets make transport easy
Engine protection includes high water temperature and low oil pressure shutdowns
Cabinet is protected with a durable, fade resistant, polyester powder coat finish

#### Specifications

Lamps	Metal halide 4x1,000w
Generator	Brushless 50/60Hz
Engine	YANMAR 3TNV76 GGEH
Wheel size	13"(33cm)
Axle rating	2,200lbs(950kg)
Total Dry Weight	1016.5Kg
Total Wet Weight	1023.5Kg
Total Weight	1049.5Kg





. Application data.

Engine			Alternator		50Hz			
	50Hz	60Hz						
Manufacture	YANMAR		Manufacture	MECCALTE				
Engine model	3TNV76-GGEH		Alternator model	ECP28-XS/4				
Engine type	4 CYCLE		Rated Power, KVA	7				
Cylinder arrangement	3, Inline		Poles quantity	4				
Bore and stroke, mm(in)	Φ76×82		Type	BRUSHLESS				
Displacement, L (cu.in)	1.116		Voltage regulator	DSR				
Compression ratio	23.5		Insulation	CLASS H				
Combustion system	Indirect Injection		Bearings, quantity	1				
Rated rpm	1500	1800	Coupling	SAE5-7.5"				
Rated KW:			<b>Fuel system</b>					
Prime	8.1	9.7	50Hz					
Standby	9	10.7	Fuel pump	Bosch in-line				
governorbility			Recommended fuel	Diesel oil				
Governor: type	centrifugal-all speed governor		Fuel supply line	8mm				
Temporary (%)	<=10	<=8	Fuel return line	8mm				
Permanent (%)	<=5	<=4	Fuel filter	paper element				
Recovery time(sec)	<=6	<=6	Fuel/water separator	yes				
Stability(rev)	<=15	<=15	<b>Starting System</b>					
			<b>Weights and Dimensions. (Kg/mm)</b>					
Starter	12V-1.1KW		Weight	Length	Width	Height		
Battery	55B-24		1125	2220	1260	2200		
Starting aid	Grow plug							
Generator	12V-40A with p terminal							
Fuel consumption			50Hz		60Hz			
Diesel, LPH			Prime Ratings					
25%	0.62	0.74						
50%	1.24	1.48						
75%	1.86	2.23						
100%	2.48	2.97						
Diesel, LPH			Standby Ratings					
25%	0.69	0.82						
50%	1.38	1.64						
75%	2.06	2.45						
100%	2.75	3.27						



## SAFETY REGULATIONS.

### .1. General safety precautions.



#### DANGER

- Do not allow non-authorized people to access the plant.
- Do not allow people with pacemakers to access the plant, as it may cause electromagnetic interferences on these devices.



#### WARNING

##### Care and Alertness

- All the time you are working with or on the machine, take care and stay alert. Always be careful. Always be alert for hazards



#### WARNING

##### Clothing

- You can be injured if you do not wear the proper clothing. Loose clothing can get caught in the machinery. Wear protective clothing to suit the job. Examples of protective clothing are: a hard hat, safety shoes, safety glasses, a well-fitting overall, ear-protectors and industrial gloves. Keep cuffs fastened. Do not wear a necktie or scarf. Keep long hair restrained. Remove rings, watches and personal jewelry.



#### DANGER

- It is forbidden to dismantle or disable any safety devices.



#### WARNING

- It is forbidden to lean on the generator set or to leave objects on it.

### For automatic action generating sets:



#### WARNING

- Place a red light that switches on when the unit is working in a visible place.



#### WARNING

- Place a warning sign alerting of the possibility that an unexpected automatic startup of the machine may occur.



#### WARNING

- Place an obligation sign stating: "All maintenance operations must be carried out with the generator in the LOCK position".
- For the emergency stop of the generator set, press the "emergency stop" button, located in the generator set, or the emergency push button to be installed outside the engine room.



## .2. Safety at delivery, storage and unpacking.



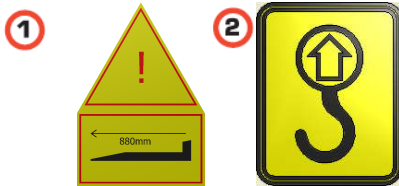
### WARNING

- Once you receive the lighting tower, check that the received goods correspond to those on the delivery note and that all the goods are in perfect conditions.



### DANGER

- In order to lift and transport the Tower, lifting machines of the appropriate capacity must be used. All loose and pivoting parts must be safely fixed before lifting it.
- When moving the generator set, and especially when lifting it, it is highly recommendable to use the available points for this purpose. (1-2)



- It is totally forbidden to use any other lifting points located over the engine, alternator or other components.



### DANGER

- If the generator set is damaged for any reason during its transportation, storage, and/or mounting, it must not be started up before being verified by our specialized personnel.



### WARNING

- If you want to store the Tower until its utilization, it is highly recommendable to have a warehouse properly protected against any chemical agents that may damage its components.
- Unpacking must be carried out carefully, avoiding causing any damages to the goods during such operation, especially when using levers, saws or any other metallic tools.



### .3. Safety during installation and initial start-up



#### WARNING

- The installation of the generator set and its respective accessories must be carried out by specialized personnel. In the event of any difficulties during the installation, consult with the Technical Department at Himoinsa.



#### DANGER

- You must be familiar with the emergency procedures concerning the installation to be followed.
- Always wear a safety helmet, footwear and safety gloves, protective goggles and dry, tight clothes.



#### WARNING

- Do not modify the original protections, located on all rotary parts on display, hot surfaces, air intakes, belts and live parts.



#### WARNING

- Do not leave dismantled parts, tools or any other accessories on the engine, near the engineer in the area where the generator set is located.
- Do not leave any flammable liquids or rags soaked in flammable liquids near the generator set, electrical devices or any other parts of the electrical installation (including lamps).



#### DANGER

- Take extreme caution to avoid risks of fulguration; make sure there is a grounding installation and that it has been fitted according to the regulations.



#### WARNING

- Place a sign stating: “DO NOT PERFORM MANOUVERS” in all sectioning parts that separate the areas of the installation where you are to work.



#### WARNING

- Install all the necessary protective measures required for safety in the parts that complete the installation.



#### WARNING

- Insulate all connections and wires that are disconnected. Do not leave any terminals of the generator sets unprotected.
- Plug all connection points concerning the generator set and its accessories into the grounding installation.



#### WARNING

- Verify and make sure the electrical power connections and the auxiliary services connections are correctly made.



#### WARNING

- Check that the cyclical direction of the phases matches the one of the power supply.
- Isolate the position of the emergency stop switches, quick-stop fuel valves, switches and other incidental emergency systems existing in the installation.



#### WARNING

- Verify the perfect functionality of the stop devices of the set, especially those in the following devices (in case they are standard supplies): over speed stop, low oil pressure stop, high water temperature in the engine stop, and the user-installed emergency stop switch, which is usually outside the premises.



**WARNING**

- Check the correct ventilation of the premises so that the exhaust gases can be released to the atmosphere, to the exterior of the premises, and verify that they are in a safe position away from doors, windows and air intakes.



**WARNING**

- Check that pipes and silencers are installed in a correct way. They must have expansion joints and be protected against accidental contact.
- Make sure there are no losses or leaks in the oil and fuel pipes.



**WARNING**

- Before the starting-up, make sure the generator set has the right amount of lubricant oil, cooling liquid and fuel.



**WARNING**

- Single out the position of the fire extinguishers and other protective and emergency devices, and learn how they work.
- Single out the sources of dangers, such as fuel leaks, lubricant oil, acid solutions, condensed drippings, high pressures and other dangers.
- Check that the set is clean and the surrounding area and escape routes are clear and free of obstacles. Check that there are no obstructions on grilles, intakes and outlets.



**WARNING**

- Check that there are staff members working at other nearby sets, and that those tasks are not dangerous and may affect the operation of the system.



#### .4. Safety during operation



##### WARNING

###### Machine Condition

- A defective machine can injure you or others. Do not operate a machine which is defective or has missing parts. Make sure the maintenance procedure in the manual are completed before using the machine.



##### WARNING

###### Machine Limits

- Operating the machine beyond its design limits can damage the machine, it can also be dangerous. Do not operate the machine outside its limits. Do not try to upgrade the machine performance with unapproved modifications.



##### DANGER

- Do not allow people or animals to access the operating area of the generator set.



##### WARNING

- Do not touch the generator set, especially wires and connections to the alternator when the set is operating, since they are live.
- Do not touch any parts in motion, until the generator set has stopped completely
- When the generator set is in operation, some parts of the engine, conduit(s) and exhaust reach high temperatures. Avoid touching them until they have cooled down completely.



##### WARNING

- Always wear ear protectors when the generator set is in operation, in order to avoid ear damage.



##### WARNING

###### Exhaust Gases

- Breathing the machine exhaust gases can harm and possibly kill you. Do not operate the machine in closed spaces without making sure there is good ventilation. If possible, fit an exhaust extension. If you begin to feel drowsy, stop the machine at once and get into fresh air.



##### WARNING

- The labels concerning safety must be kept clean and on the locations designated by the manufacturer.
- Fuels and lubricants may be flammable, toxic, explosive and corrosive. We recommend keeping them in their original containers and storing them in protected areas.



##### DANGER

###### Sparks

- Explosions and fire can be caused by sparks from the exhaust or the electrical system. Do not use the machine in closed areas where there is flammable material, vapor or dust.



##### WARNING

###### Alcohol and Drugs

- It is extremely dangerous to operate machinery when under the influence of alcohol or drugs. Do not consume alcoholic drinks or take drugs before or while operating the machine or attachments. Be aware of medicines which can cause drowsiness.



## .5. Safety during maintenance



### DANGER

- All checks and/or maintenance of the generator set must be always carried out by specialized personnel.
- Maintenance operations must be done when the engine is not working.



### WARNING

- The machine can auto-start. You must isolate the engine start circuit before you start service or maintenance procedures.



### WARNING

#### Repairs

- If your machine does not function correctly in any way, get it repaired straight away. Neglect of necessary repairs could result in an accident or affect your health. Do not try to do repairs or any other type of maintenance work you do not understand. To avoid injury and/or damage get the work done by a specialist engineer.



### WARNING

#### Metal Splinters

- You can be injured by flying metal splinters when driving metal pins in or out. Using a soft faced hammer or copper pin to remove and fit metal pins. Always wear safety glasses.



### WARNING

- If you try to charge a frozen battery, or jump start and run the engine, the battery could explode. Do not use a battery if its electrolyte is frozen. To prevent the battery electrolyte from freezing, keep the battery at full charge.



### WARNING

#### Battery Gases

- Batteries give off explosive gases. Keep flames and sparks away from the battery. Do not smoke close to the battery. Make sure there is good ventilation in closed areas where batteries are being used or charged. Do not check the battery charge by shorting the terminals with metal; use an approved battery tester.



### WARNING

- Do not open the high pressure fuel system with the engine running. Engine operation causes high fuel pressure. High pressure fuel spray can cause serious injury or death.



### WARNING

#### Oil

- Oil is toxic. If you swallow any oil, do not induce vomiting, seek medical advice. Used engine oil contains harmful contaminants which can cause skin cancer. Do not handle used engine oil more than necessary. Always use barrier creamer or wear gloves to prevent skin contact. Wash skin contaminated with oil thoroughly in warm soapy water. Do not use petrol, diesel fuel or paraffin to clean your skin.



### WARNING

- Always wear safety glasses when dismantling assemblies containing components under pressure from springs. This will protect against eye injury from components accidentally flying out.



### CAUTION

#### Cleaning

- Cleaning metal parts with incorrect solvents can cause corrosion. Use only recommended cleaning agents and solvents.



### WARNING

#### Fires

- Do not use water to put out a machine fire, you could spread an oil fire or get a shock from an electrical fire. Use carbon dioxide, dry chemical or foam extinguishers. Contact your nearest fire department as quickly as possible. Firefighters should use self-contained breathing apparatus.



### WARNING

- To avoid burning, wear protective gloves when handling hot components. To protect your eyes, wear goggles when using a brush to clean components.



### DANGER

- Before opening the electrical panel, specialized personnel must take the following precautions:
  - Stop the generator set if it is in operation, and set the electric panel in the LOCK position.
  - Disconnect the battery/batteries from the generator set.
  - Disconnect the power input.



### WARNING

- Periodically check both the tightness and insulation of connections.



### DANGER

- The different operations and/or maintenance procedures which are not specifically indicated in the user handbooks must be notified to the manufacturer for their approval.
- Do not carry out modifications of the product without having the knowledge and exclusive authorization by our technical department.
- Follow the recommended manufacturer's directions concerning oil changes and fuel replacements. Do not use oils or fuels that are not specified by the manufacturer.



### WARNING

- Spare parts must conform to the manufacturer's standards. Use original spares only. For spares, contact original spare suppliers only, or workshops in the HIMOINSA assistance network. For a correct determination of the spare parts always refer to the data indicated on the plate of the set, the type of engine and/or alternator and their respective registration numbers.



### WARNING

- Periodically control the condition of the different components of the generator set, especially of anti-vibration components, the origin of eventual vibrations and/or the increase in noise.
- Periodically check if there are any water, oil, fuel and/or acid leaks in the battery/batteries.



### DANGER

- Do not modify the engine or other components of the generator set to obtain performances different from those specified by the manufacturer.
- Do not operate the fuel tank or fuel supply conduits when the engine is hot or in operation.



### DANGER

- Wear protective gloves and goggles:
  - When using pressurized air;
  - During battery maintenance;
  - During the supply of inhibitors or antifreeze products;
  - During the replacement or supply of lubricant oil (hot engine oil can cause scalds during emptying). Allow the oil to cool below 60° C.



### DANGER

- Wear protective helmets when operating in an area with suspended loads or equipment at head level.
- Always wear safety footwear and tight clothes.



### DANGER

- When working with parts that may be live, always make sure that your hands and feet are dry. We recommend the use of insulating flooring to perform maneuvers.
- Wet clothes must be replaced immediately.
- Keep used rags in containers that are anti-flammable or indicated for such effect.
- Do not leave rags on the engine.



### WARNING

- When starting up an engine that has been repaired, take precautions in order to prevent air suction in case there is an excess in revolutions during the start up.
- Always keep the engine clean, removing eventual oil stains, gas oil and/or other cooling liquids.
- Never start up the engine when the fan protection cover has been dismantled.



### WARNING

- Do not carry out tasks that need the presence of several people if you are alone, especially when moving or operating parts such as switches, section switches, fuses and/or other live devices.



### CAUTION

- Damaged or spent batteries and any residue from fires or spillage should be put in a closed acid proof receptacle and must be disposed of in accordance with local environmental waste regulations.



### CAUTION

- Do not disconnect the battery while the engine is running, otherwise the electrical circuits may be damaged.



### DANGER

#### Electrolyte

- Battery electrolyte is toxic and corrosive. Do not breathe the gases given off by the battery. Keep the electrolyte away from your clothes, skin, mouth and eyes. Wear safety glasses.



### WARNING

- Compressed air is dangerous, wear suitable eye protection and gloves. Never point a compressed air jet at yourself or others.



### WARNING

- Machinery utilizing the generator set must be correctly parked and prepared, for example safety strut fitted, prior to completing maintenance tasks on the generator set.
- Maintenance must be completed by suitably qualified personnel.
- You or others could be killed or seriously injured if the machine is not correctly prepared and maintained.



### CAUTION

- Do not allow dirt to enter the fuel system. Before disconnecting any part of the fuel system, thoroughly clean around the connection. When a component has been disconnected, for example a fuel pipe, always fit protective caps and plugs to prevent dirt ingress.
- Failure to follow these instructions will lead to dirt entering the fuel system. Dirt in the fuel system will seriously damage the fuel injection equipment and could be expensive to repair.



### CAUTION

- It is illegal to pollute drains, sewers or the ground. Clean up all split fluids and/or lubricants.
- Used fluids and/or lubricants, filters and contaminated materials must be disposed of in accordance with local regulation. Use authorized waste disposal sites.

### • Engine cooling circuit.



### DANGER

- Never add coolant to a hot engine; allow the engine to cool down first.
- Periodically check the level of the coolant, and if necessary, add product until the appropriate level is reached. Only use liquids that are recommended in the use and maintenance handbook.
- Remove the radiator cap gently. The cooling conduits are usually pressurized, and therefore the hot liquid may spout if pressure is released very quickly.



### WARNING

- Periodically check the tightness and level of wearing of pump belts/fan.

### • Lubrication circuit.



### WARNING

- Periodically check the level of the oil in the crankcase, with a cool engine, and add oil whenever necessary, according to the directions found in the use and maintenance handbook.



### DANGER

- Do not smoke or light fires during the oil supply.

### • Fuel circuit



### DANGER

- Do not smoke or light fires during the fuel supply.
- Do not smoke during the fuel replacement, and be careful not to spill fuel on the generator set.

### • Exhaust circuit



### DANGER

- Watch the exhaust circuit, and in the event that any eventual gas leaks are detected, repair immediately. These are possible fire sources.



### WARNING

- Warning: very hot surfaces. Pre-assembled installation parts are protected against accidental contacts. The installer must insulate and/or protect any other additional parts, gas evacuation pipes, the silencer which is supplied separately, etc.

### • Electric start system



### WARNING

- Disconnect the negative pole from the battery/batteries before operating the engine, in order to prevent the automatic start system of the engine from starting while being operated.
- Keep joints tight and check that the insulation of the wires is satisfactory.
- We recommend connecting first the positive pole to the battery, and next the negative pole (usually grounding), in order to prevent the formation of electrical arches.



- **Synchronous Generator.**



**WARNING**

- Do not manipulate the generator when it is in operation. Before manipulating, set the generator to the position of LOCK.
- Ensure the air intakes for the ventilation of the generator are clean, and in some models, lubricate the bearings. Also, make sure that the tightness and the position of the electrical connections are correct.

- **Control panel**



**WARNING**

- Before operating the control panel, disconnect the power input and set the generator to the position of LOCK.
- Electrical control panels, as all electrical devices, are dry and no dust. Verify that the anti-condensation heaters, if available, are in good working order and that the air ventilation intakes are clean.
- Periodically check that the bolts that fix electrical connections are securely screwed.



## .6. Environmental safety.



### WARNING

- Do not start a generator set in closed premises, where there is no exhaust installation with outlets. Exhaust gases are harmful and may be lethal.














### WARNING

- Follow the rules and other regulations concerning acoustic installations.
- Replace the exhaust and/or silencer of the engine if the humming level is louder than the allowed by the respective regulation.
- Maintenance operations (oil replacements, fuel tank cleaning, radiator cleaning, washing, battery/batteries replacements, etc.), storage and waste disposals will be carried out according to the existing regulations in the country where they are being used.



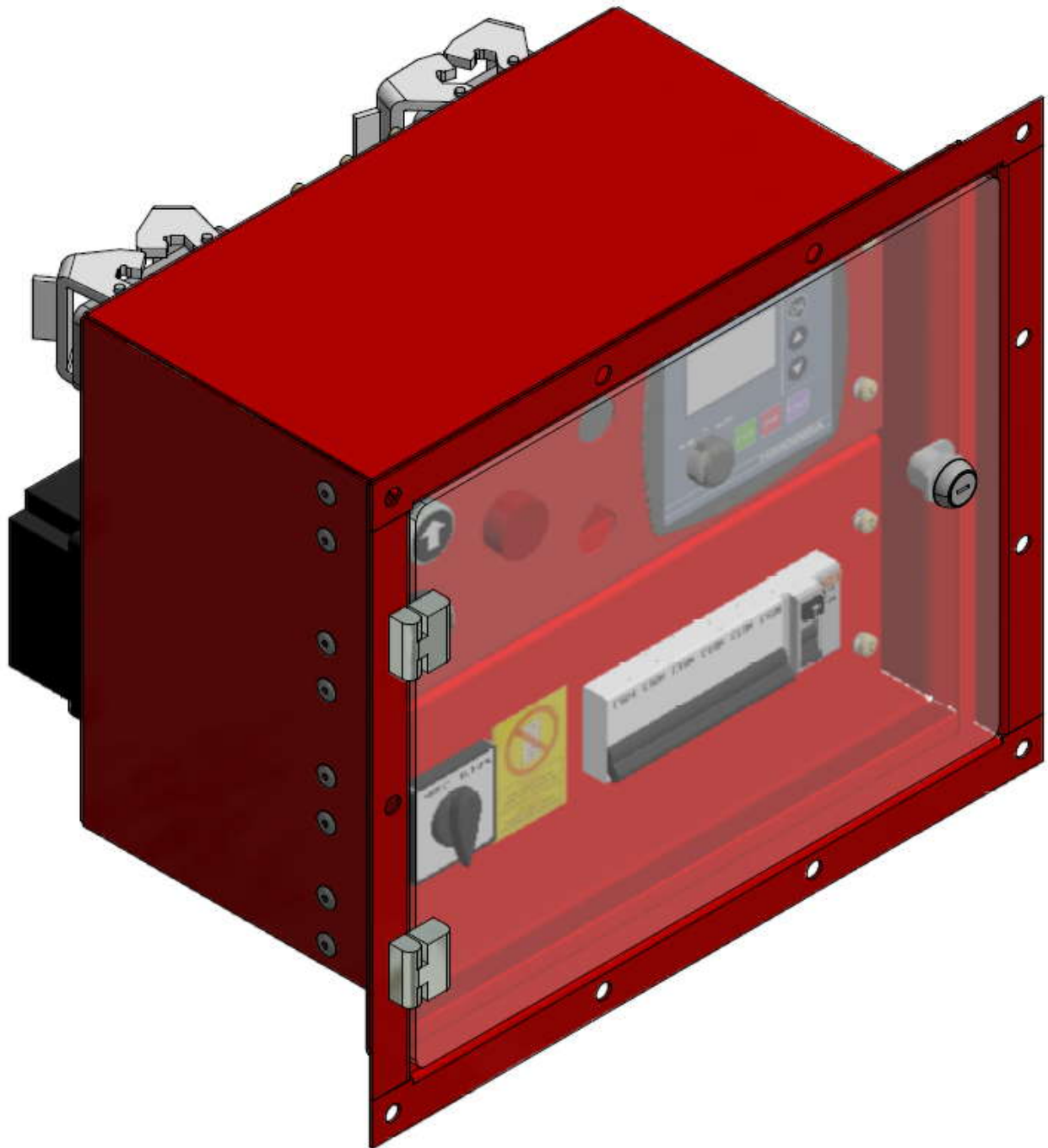
### .7. Safety stickers and information.

There are some safety stickers and information all over the generator. Next you can find a brief explanation of their locations and information on each of them:

PICTURE	LOCATION	INFORMATION
	Located on the connections from the alternator to the engine. Whenever there are timing belts or transmission shafts.	They warn of the danger in case an alien object collides with the timing belts or with the components in motion that they connect
	Located on the parts of the genset that heat up during operation.	They indicate those areas which must not be touched while the set is in operation or shortly after having stopped.
	Placed on the coolant tank cap.	They warn of the precautionary measures to be taken when opening this cap. The liquid is hot and may spout and cause scald.
	Located on the bonnet and next to the lifting eye.	It indicates the point by which the set must be lifted in order to move it.
	Located next to the fuel cap. Depending on the model, it can be either on the bedplate or next to the engine.	It indicates the location of the fuel tank. Tank filling cap.
	Located on both sides of the bedplate skids.	It indicates the advisable area to move the set by means of a fork-lift truck.
	Located next to the oil fill dipstick and oil fill cap.	Indicates the location of the oil fill dipstick.
	Next to the derivations of the grounding protections.	They are the parts by means of which the genset is protected against possible electric shocks.
	On the emergency stop.	It indicates the location of the emergency stop button which allows the simultaneous stop of the genset.
	Located on the control panel.	They warn of electric shock hazard.
	Always located on the thermal-magnetic switch.	They indicate the prohibition of manipulating the genset when the switch is on.

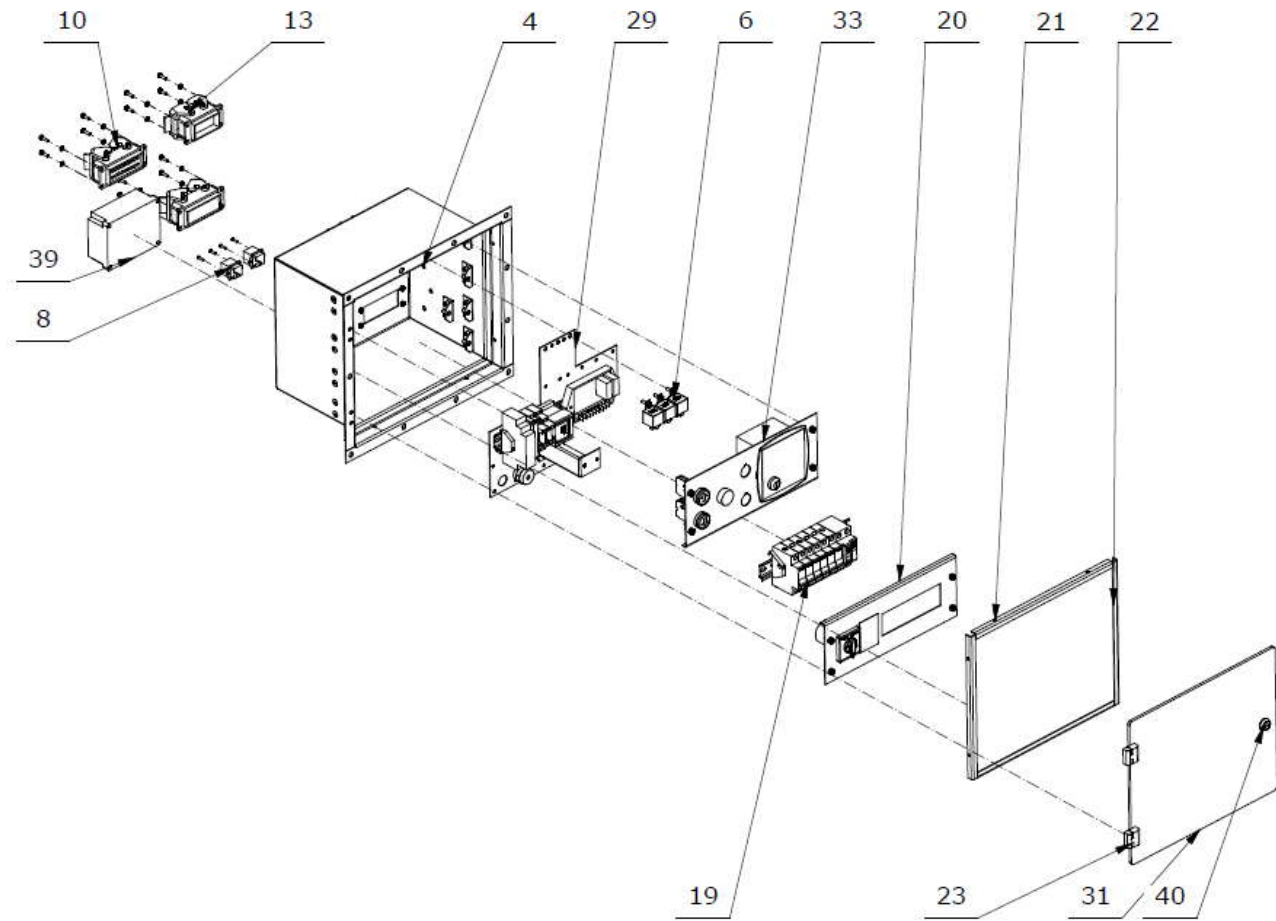


## .CONTROL PANEL & WIRING HARNESS





**.CONTROL PANEL'S DETAIL**



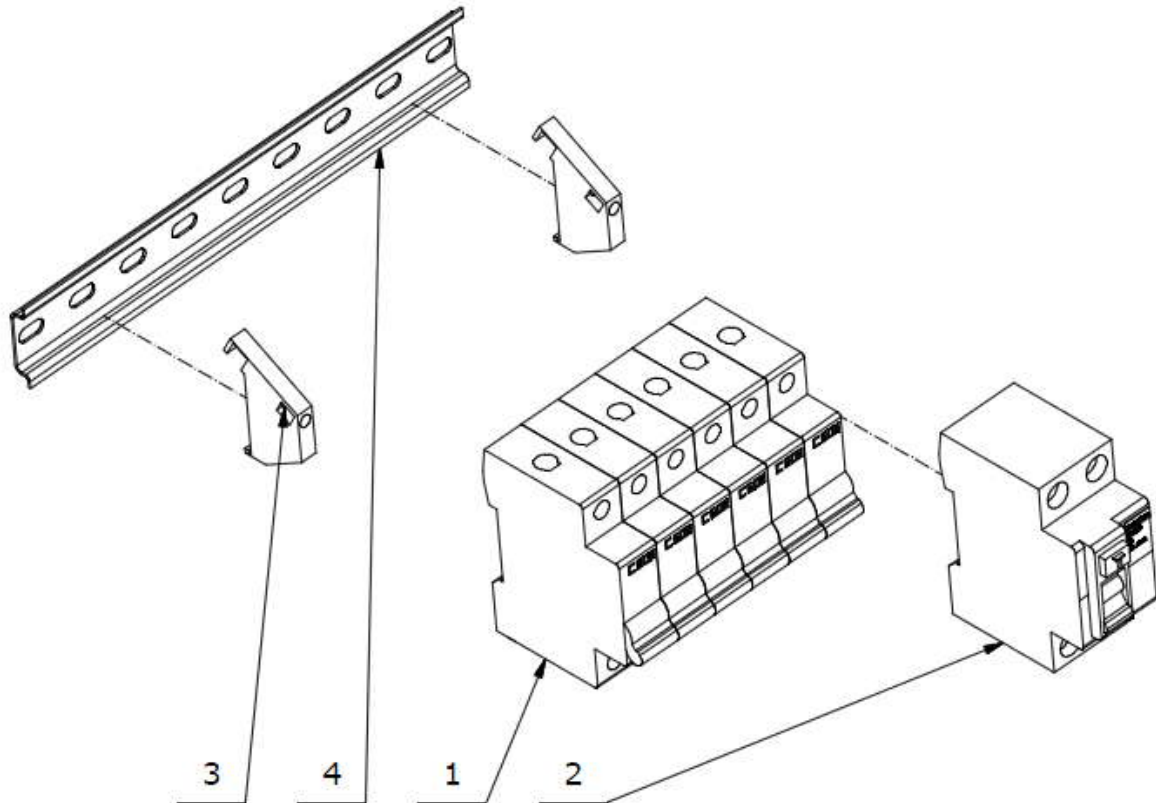
ITEM NO.	PART NO.	DESCRIPTION	QTY
4	8001723	CONTROL PANEL BOX L/T 10A RAL2002	1
6	3015038	RELAY STARTING 12V-40-30A	3
8	8042335	CONNECTOR HOUSING 4P SIBAS	2
10	8042346	CONNECTOR HOUSING BASE 16P SIBAS	2
13	8042339	CONNECTOR HOUSING 10P SIBAS	1
19		PREASSEMBLY BREAKER	1
20		PREASSEMBLY FRONT KITS LOWER	1
21	8001576	FRONT PANEL FIX PART UP-DOWN 10A RAL2002	2
22	8001579	FRONT PANEL FIX PART LEFT-RIGHT 10A RAL2002	2
23	8002010	ZINC-PLATED HINGE L/T 8KVA	2
29		MOUNTING PLATE FOR CAC16 PRE-ASS	1
31	8028935	PLASTIC COVER CAC 360×300 WITH NEW KEY	1
33		PREASSEMBLY KITS UPPER	1
40	8028934	LOCK FOR CAC16 WITH KEY 35MM	1

**Option: For Battery Charger**

39	8026780	BATTERY CHARGE BC7033A 12V/5A 24V/3A 180-300VAC 45-65HZ	1
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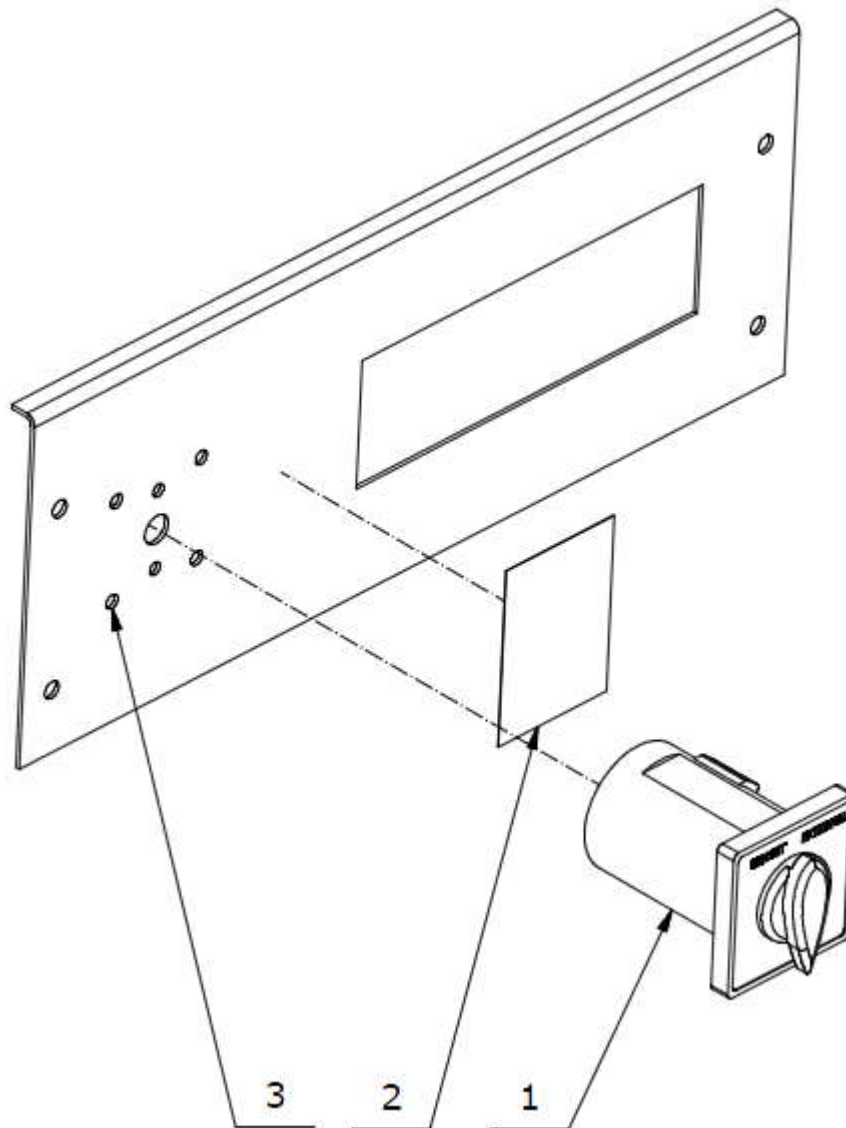
## 19. PREASSEMBLY BREAKER



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8000214	CIRCUIT BREAKER OSMC32N1P B10A	6
2	8046327	EARTH LEAKAGE RELAY ID 25A 2P 30MA Schneider	1
3	8054133	PLASTIC STOPPER (SAKEW 35) Weidmuller	2
4	3001436	RAIL DIN BLIND 35X7,5	1



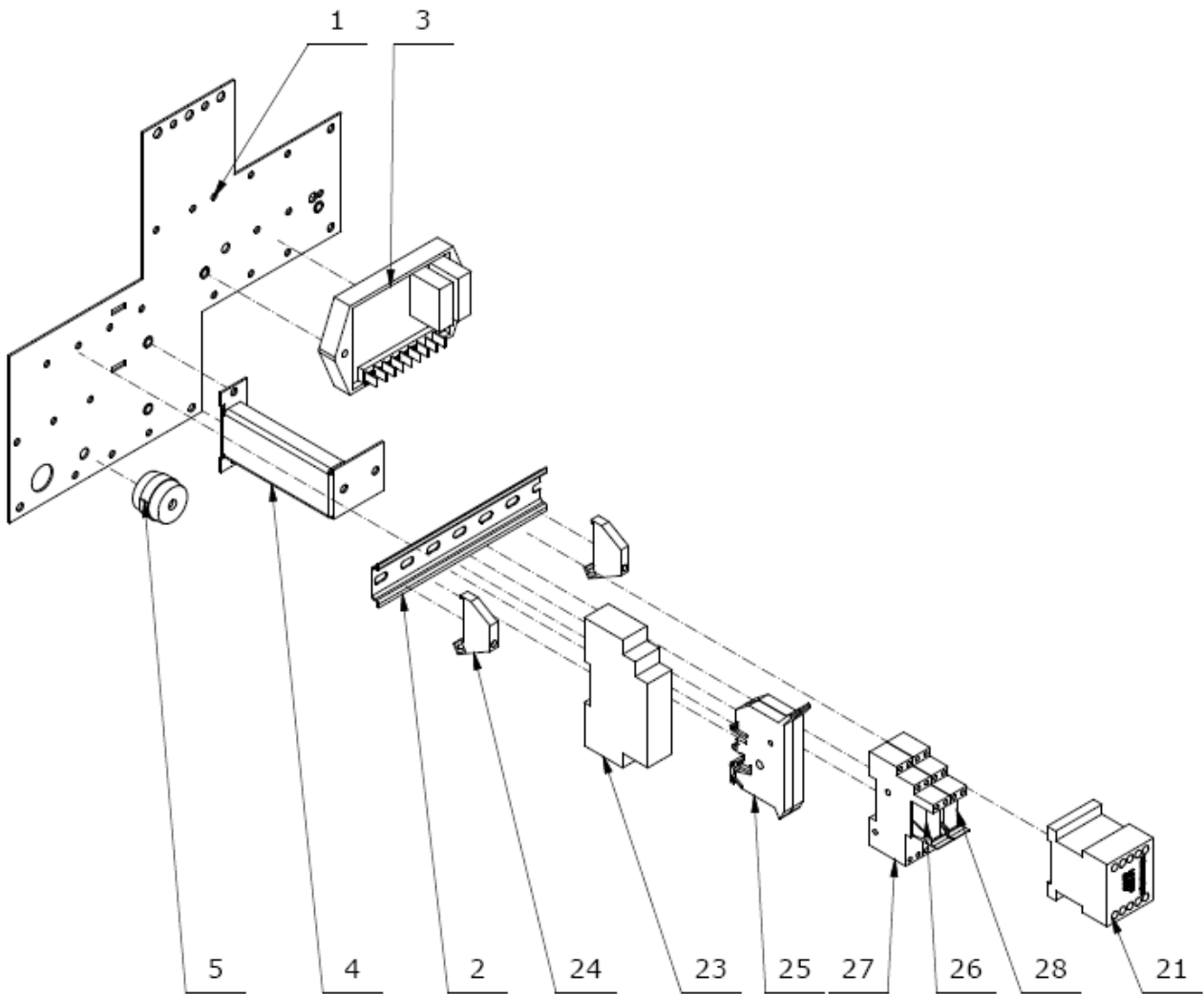
## 20. PREASSEMBLY FRONT KITS LOWER



ITEM NO.	KIT NO.	DESCRIPTION	QTY
1	8002106	CHANGE OVER SWITCH FOR POWER 25A	1
2	8003272	STICKER FOR WARING BREAKER OFF BEFORE OPERATION	1
3	8053367	FRONT PANEL DOWN L/T C/P 10A RAL2002	1



## 29. MOUNTING PLATE FOR CAC16 PRE-ASS



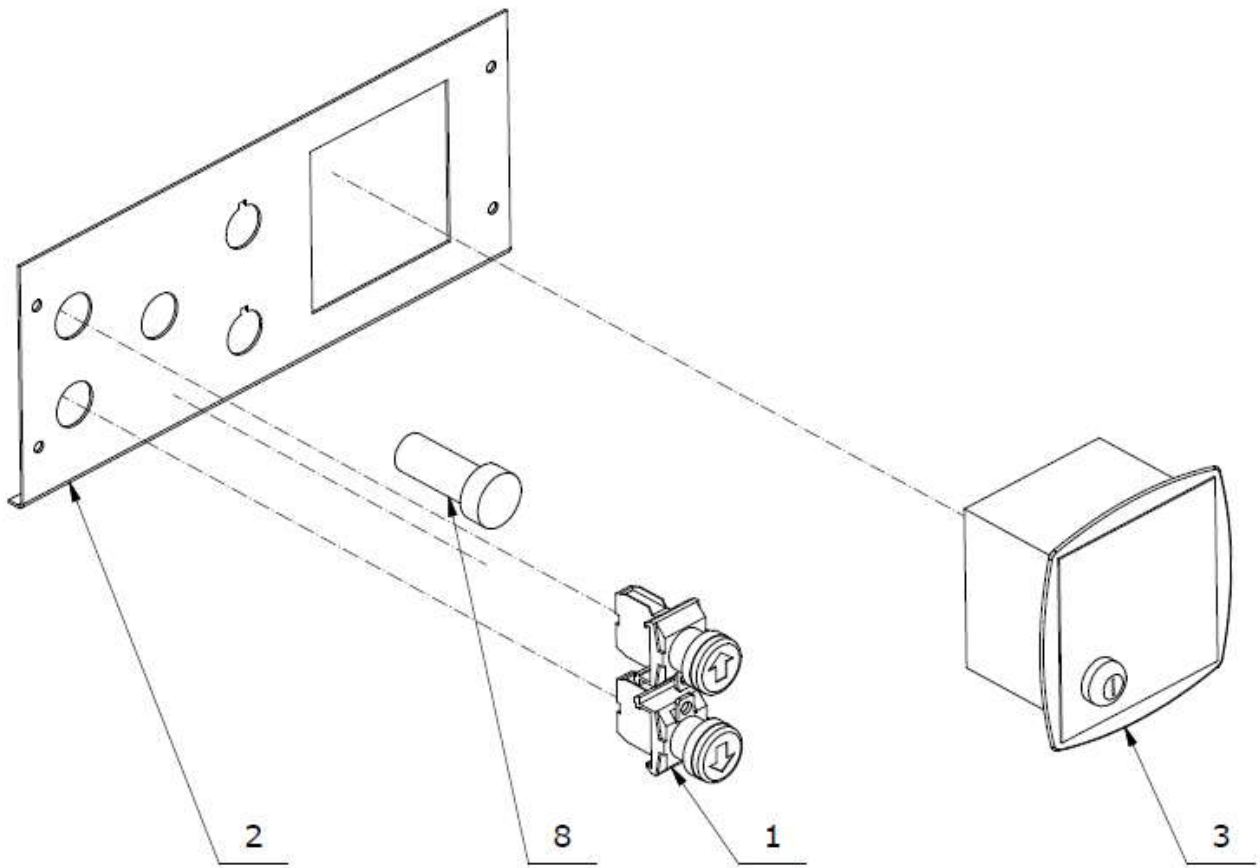
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8027951	MOUNTING PLATE CAC16 PUNCHED	1
2	3001436	RAIL DIN BLIND 35X7,5	1
3		AVR	1
4	8002101	RAIL FIX HOLDER DIN L/T C/P GALV BENDED	1
5	3000628	ISOLATOR CO/P25 M06	1
21	8031392	CONTACTOR 20A 4P/1NC 220 50/60HZ	1
24	8054133	PLASTIC STOPPER (SAKEW 35) Weidmuller	2
25	8000645	DIN RAIL FUSEHOLDER 4MMS (6.35X32)	2
26	8048684	RELAY COIL 1C 12VDC 8A WEIDMULLER	1
27	3000356	RELAY BASE 2 CIRCUIT 10A WEIDMULLER	2
28	8002082	RELAY COIL 2 CIRCUIT 230VAC-8A WEIDMULLER	1

Option: Solar Sensor (Other detail to see [SS](#))

23	8010814	LAMP CONTROLLER WITH SOLAR SENSOR 12V DC	1
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### 33. PREASSEMBLY KITS UPPER



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8001888	PUSH BUTTON NO LABEL A22-RD-X	2
2	8059912	FRONT PANEL UP M7 L/T C/P RAL2002	1
3	3060438	CONTROLLER M7T	1
8	8046349	HORN ROUND 10CM/80DB DC12V 0.8W 15-20mA	1



# .WIRING HARNESS

ITEM NO.	PART NO.	DESCRIPTION	QTY
	8009162	EARTHING WH KIT L/T 8KVA	1
	8001737	BATTERY WH COMPACT L/T 3TNV76	1
	8031003	ENGINE WH YANMAR 8KVA LT WH M7/PHG7	1
	8002219	POWER WH CP-ALT L/T 8KVA	1

8009162-EARTHING WH:



8001737-BATTERY WH:



8031003-ENGINE WH:

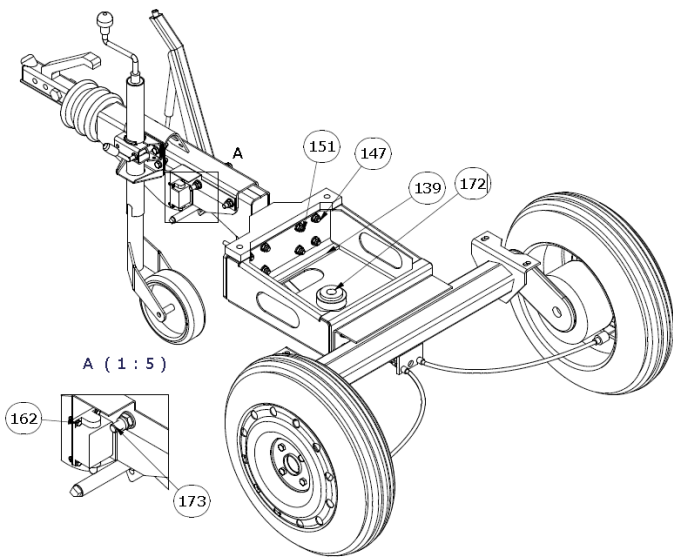
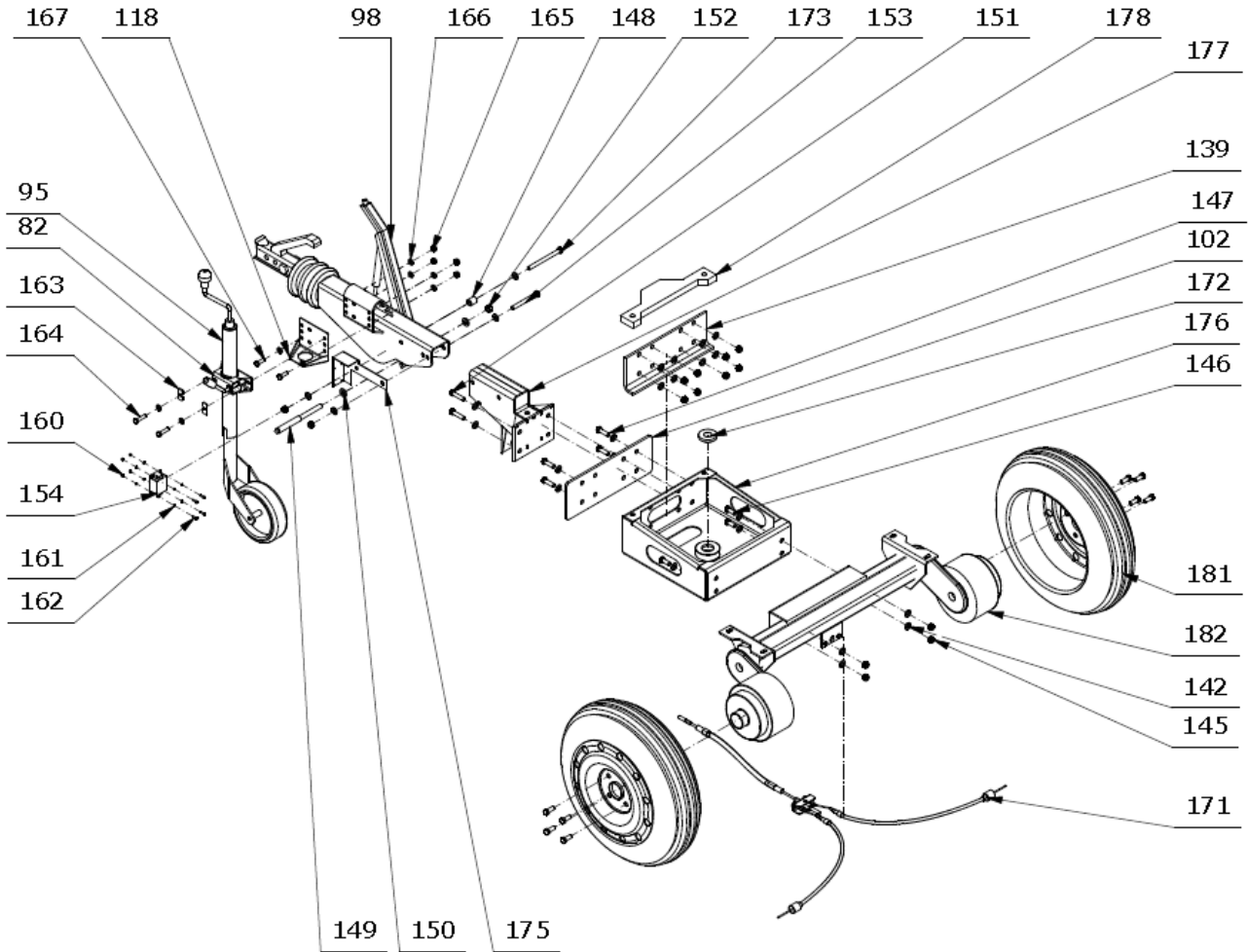


8002219-POWER WH:

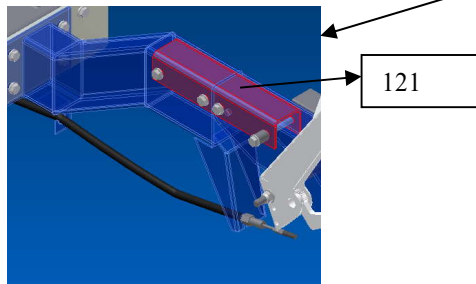
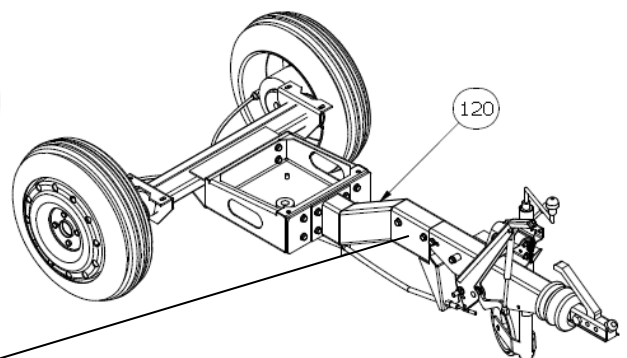




### .Trailer Assembly Details.



**Option: Long Drawbar**





## . Trailer (BOM)

ITEM NO.	PART NO.	DESCRIPTION	QTY
82	8001561	CLAMPS 48 (HEAVY)	1
95	8001563	JOCKY WHEEL (extension 220mm)	1
98	8029599	OVERRUN FOR TRAILER(max.1350kg) FIG.C+ball coupling	1
102	8015277	FRONT STRENGTHEN PLATE OF TRAILER RAL9005	1
118	8034534	STRENGTHEN PLATE ZINC LIGHT TOWER 8KVA GALVANIZATION	1
139	8020080	REAR STRENGTHEN PLATE OF TRAILER RAL9005	1
142	8000285	WASHER M12 GB/T97.1	28
145	8000123	NUT M.12 SPRING LOCK GB/T 889-8	14
146	8000273	SCREW M12x30 Hexagonal GB/T 5783-8.8	4
147	8002198	SCREW M12X40 HEXAGONAL GB 5783-8.8	4
148	8002291	TRAIL BREAKER STEEL WASHER	1
149	8002297	BRAKE AXIS FOR TRAILER	1
150	8000304	WASHER M.14 NARROW FLANGE GB/T97.1	2
151	8000582	SCREW M12*50 HEXAGONAL GB/T 5783-8.8	4
152	8000502	NUT M14 SPRING LOCK GB/T889.1-8	1
153	8002176	SCREW M12X110 HEXAGONAL GB/T5782-8.8	1
154	8001975	LIMIT SWITCH L/T 8KVA	1
160	8000124	NUT M.4 GB/T6170-8	4
161	8000097	WASHER M.4 NARROW FLANGE GB/T97.1	8
162	8000114	SCREW M4x16 Hexagonal GB/T5783-8.8	4
163	8003182	GALVANIZED WASHER LIGHT TOWER	2
164	8000402	SCREW M10x1.5x40 HEXAGONAL GB 5783-8.8	2
165	8000122	NUT M.10 SPRING LOCK GB/T 889-8	4
166	8000091	WASHER M.10 NARROW FLANGE GB/T97.1	8
167	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	2
171	8002039	BRAKE STEEL WIRE L/T 8KVA	1
172	8001900	MASTIL BOTTOM PLASTIC WASHER	1
173	8002295	SCREW M12X140 HEXAGONAL GB/T5783-8.8 WHITE ZINC	1
175	8008976	LIMIT SWITCH SUPPORT L/T 8KVA	1
176	8029520	BOX FOR NEW MAST L/T 8KVA RAL9005	1
177	8028567	THE LONG PLATE OF TRAILER RAL9005	1
178	8016859	PLATE FOR CHASSIS AND TRAILER LT COMPACT RAL9005	1
181	8024851	TRAILER WHEEL 165R13 TYPE (NEW)	2
182	8071146	AXLE FOR COMPACT LIGHTING TOWER 1180MM (B1200-5)	1

### Option: Long Drawbar

120	8008233	PLATE OF TRAILER L/T 8KVA AUS RAL9005	1
121	8005631	RECTANGLE PIPE CONNECT PLATE FOR LONGER L/T	1

### Option: Wheel

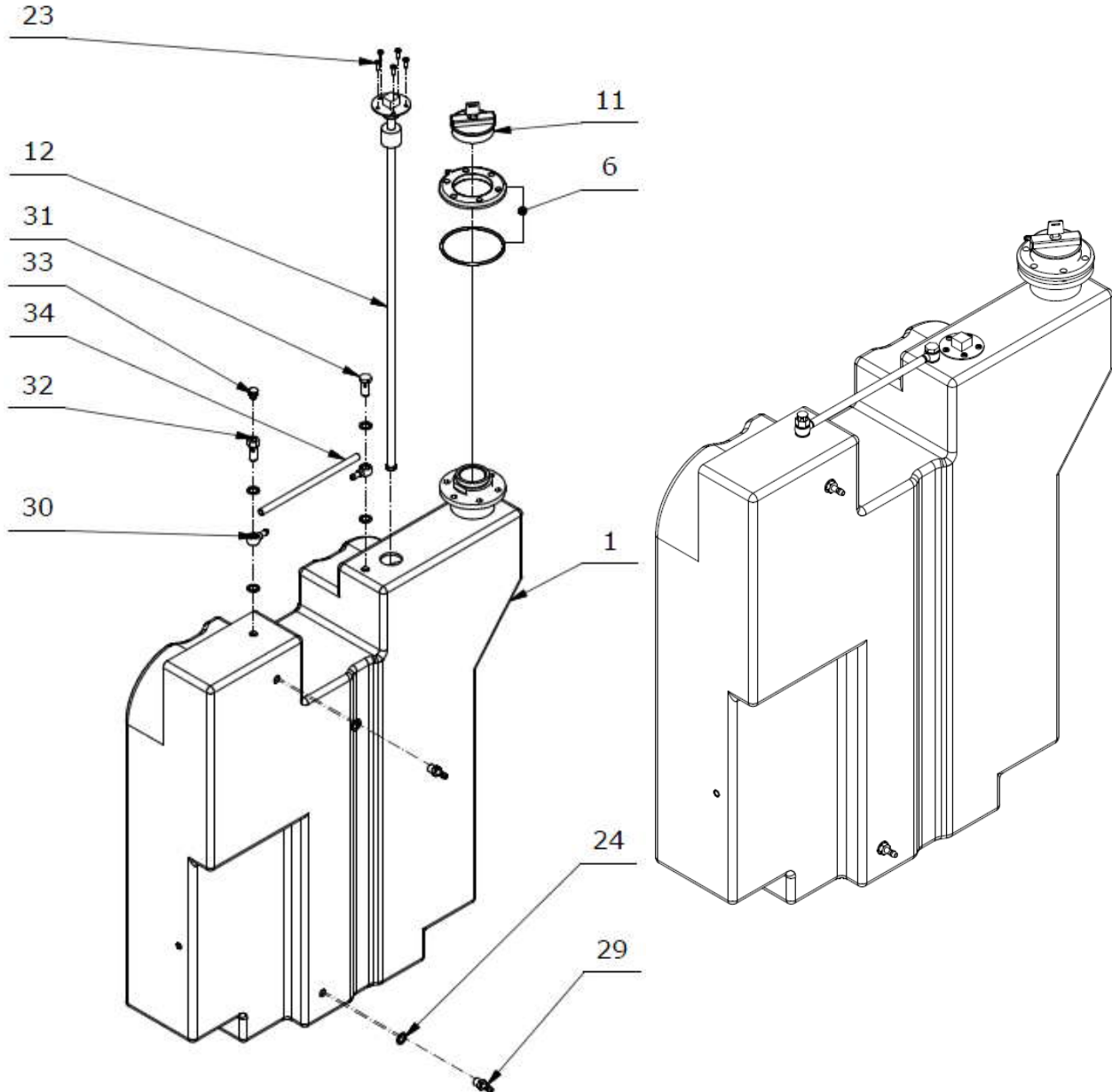
181	8001551	TRAILER WHEEL 5 1/2*R13 165 TYPE	2
181	8007719	TRAILER WHEEL 6' *R14 195/60 TYPE	2

### Option: Heavy Duty Kit (Other detail to see [HDK](#))

95	8010163	JOCKY WHEEL AUTO-RETRACT (HEAVY)	1
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**.Fuel tank Assembly Details.**

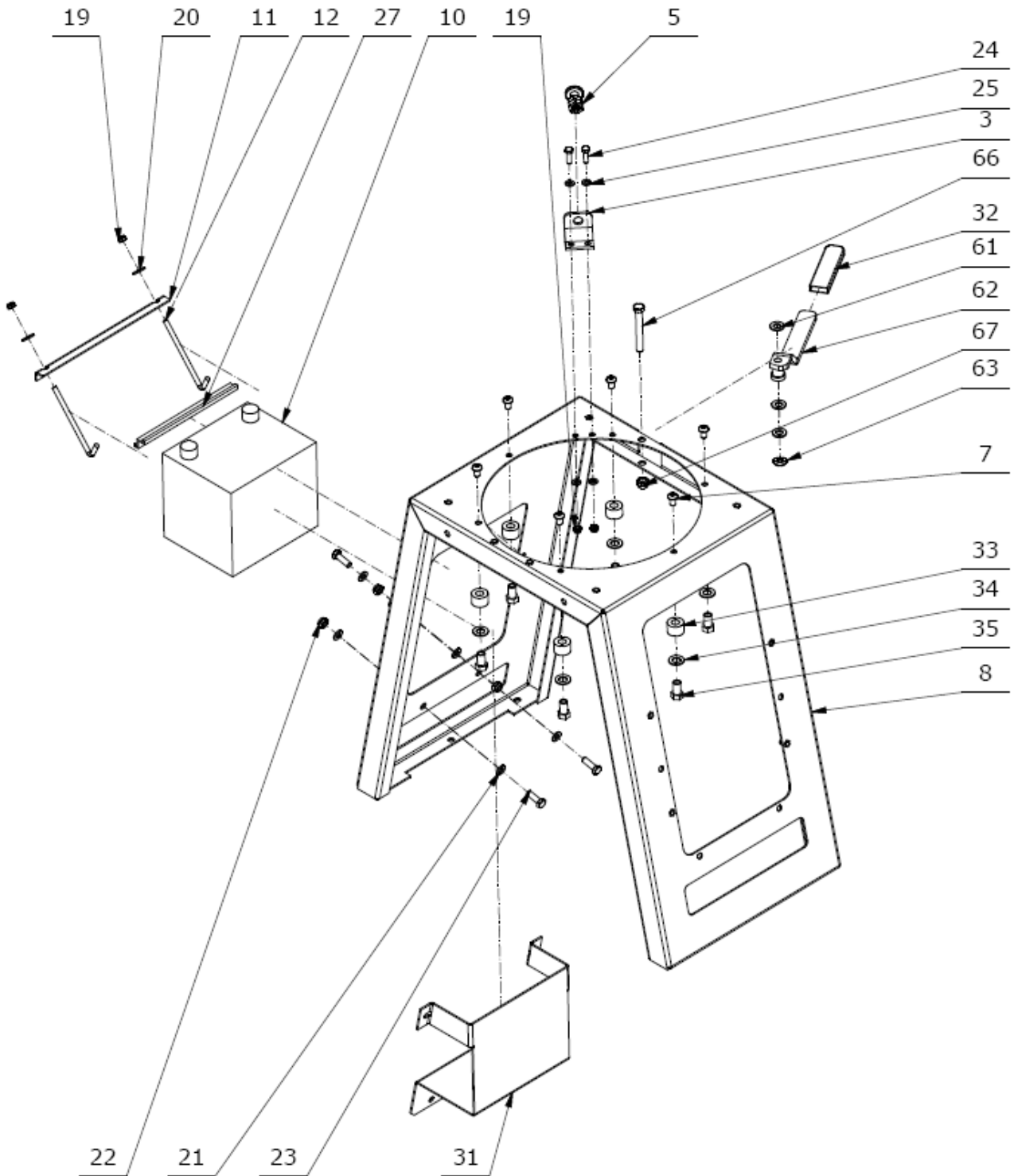


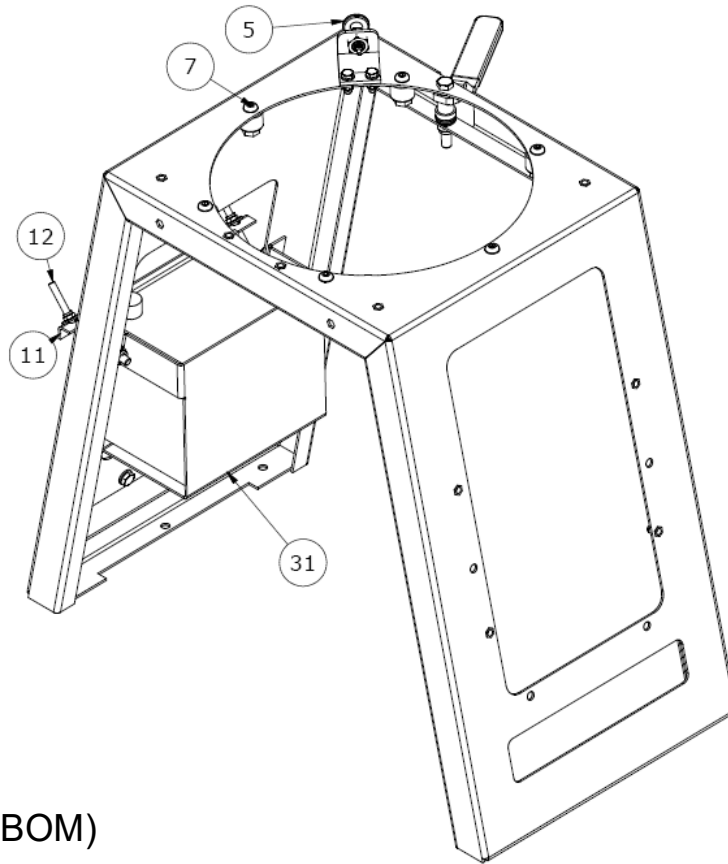
**.Fuel tank assembly(BOM)**

ITEM NO.	KIT NO.	DESCRIPTION	QTY
1	8001783	PLASTIC FUEL TANK L/T 8KVA	1
6	8002175	FUEL TANK FILLING BASE L/T 8KVA	1
11	3022859	FUEL TANK CAP L/T 8KVA	1
12	8001566	FUEL LEVEL SENSOR FOR L/T 8KVA	1
23	8000117	SCREW M4. 8X19 Phillips STEEL-STEEL GB/T15856. 1 H	5
24	8019502	WASHER COMBINATION M. 14	6
29	3015693	FUEL TANK M14 CONNECTER	2
30	3015666	AIR OUTLET ADAPTER	2
31	3015667	SCREW EMPTY SCREW 14X1, 5	1
32	8020079	BREATH SYSTEM EMPTY HEAD NAIL 14*1. 5	1
33	8020329	BREATH PWWW12*1. 5-6 ALUMINIC	1
34	8020462	WATER PIPE $\Phi 8*14$	1m



.Lifting support.



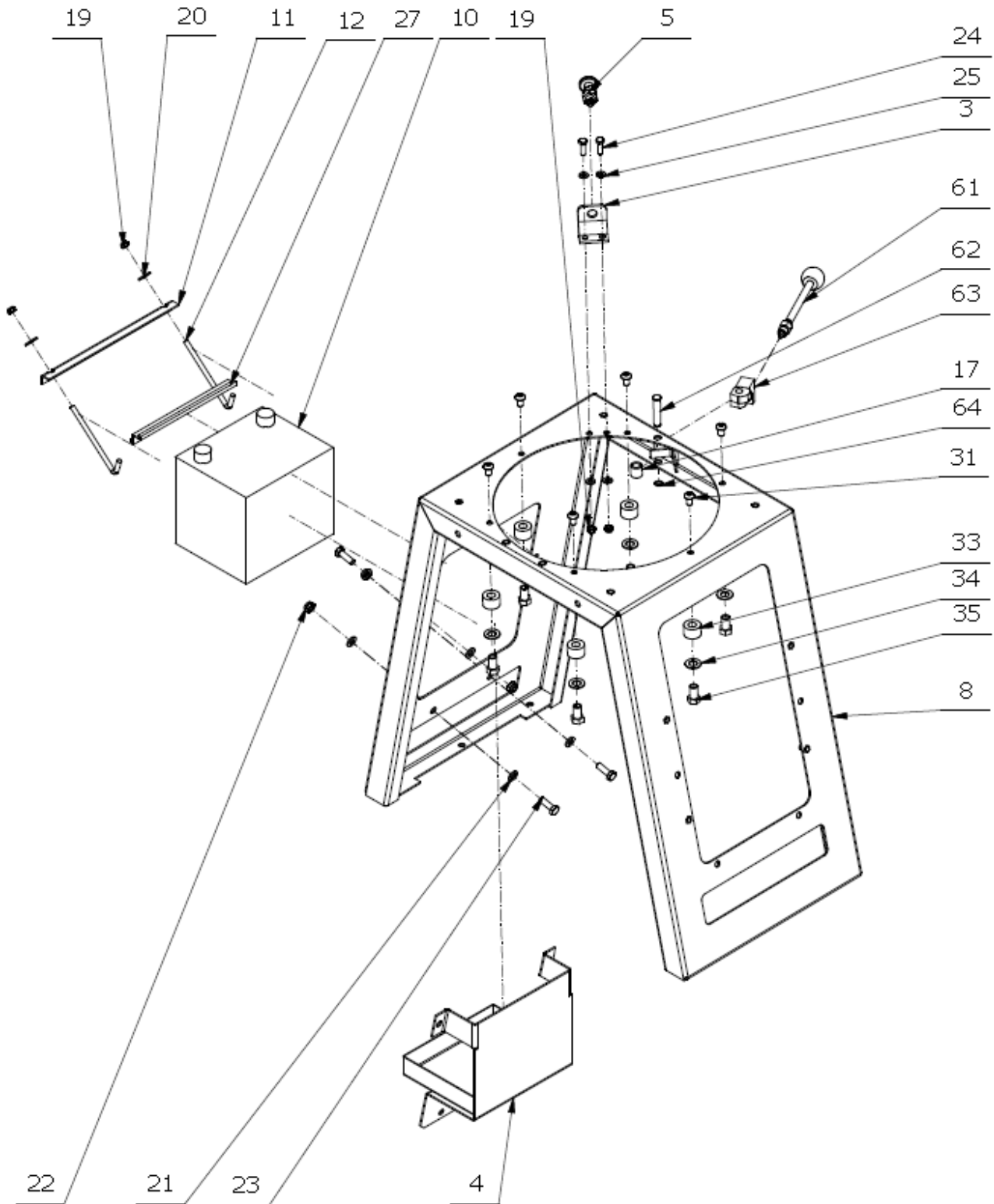


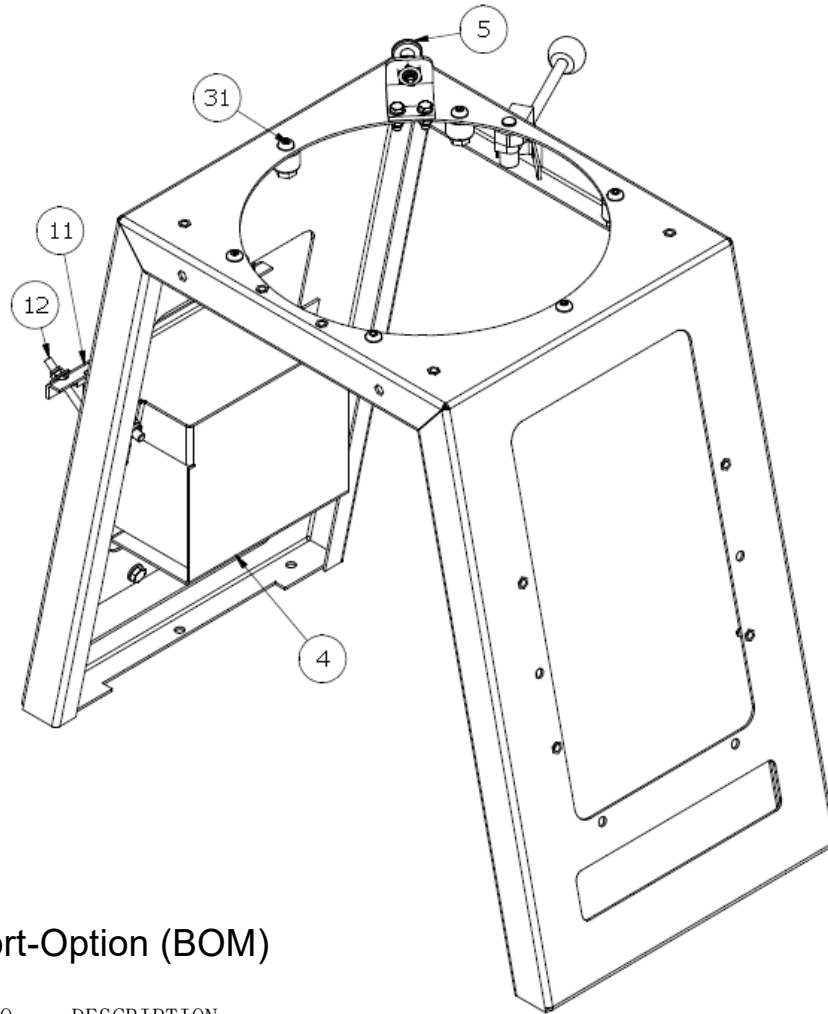
**.Lifting support (BOM)**

ITEM NO.	PART NO.	DESCRIPTION	QTY
3	8001799	DOWN SUPPORT OF MASTIL ZINC LIGHT TOWER 8KVA	1
5	8001798	SPRING GASKET OF MASTIL LIGHT TOWER 8KVA	1
7	8006996	SCREW M10X16 ROUND HEAD INOX ALLEN STAINLESS GB/T70.2-2000	6
8	8029494	MAST NEW SUPPORT STRUCTURE L/T 8KVA RAL9005	1
10	3010963	BATTERY MF 12V 60AH 500CCA BD	1
11	8001669	BATTERY FIX PART L/T 8KVA RAL9005	1
12	8001801	SCREW FOR FIX BATTERY LIGHT TOWER 8KVA	2
19	8000129	NUT M. 8 SPRING LOCK GB/T 889.1-8	4
20	8000104	WASHER M8 WIDE FLANGE GB/T96.1	2
21	8000091	WASHER M. 10 NARROW FLANGE GB/T97.1	12
22	8000122	NUT M. 10 SPRING LOCK GB/T 889-8	6
23	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	6
24	8000221	SCREW M. 8x25 Hexagonal GB/T5783-8.8	2
25	8006184	WASHER M. 8 NARROW FLANGE STAINLESS	4
27	8019864	BATTERY PLATE BLACK RUBBER 41*11MM	1
31	8025276	BATTERY SUPPORT L/T8KVA RAL9005	1
32	8030391	RUBBER HANDLE PROTECTOR MOCAP RFVG 0.375"X5"X0.06" BLACK	1
33	8006783	NYLON COLUMN LOCKING WHEEL Φ14.5-30	6
34	8000304	WASHER M. 14 NARROW FLANGE GB/T97.1	6
35	8005301	SCREW M10X17 INNER TEETH	6
61	8029510	NYLON WASHER M12	1
62	8029476	BREAK WELDING HANDLE L/T COMPACT RAL9005	1
63	8029489	WASHER GB/T 955 -1987 12	1
66	8016708	SCREW M12X90 HEXAGONAL GB 5783-8.8	1
67	8002199	NUT M. 12 SPRING LOCK GB/T 6182	1



.Lifting support-Option.



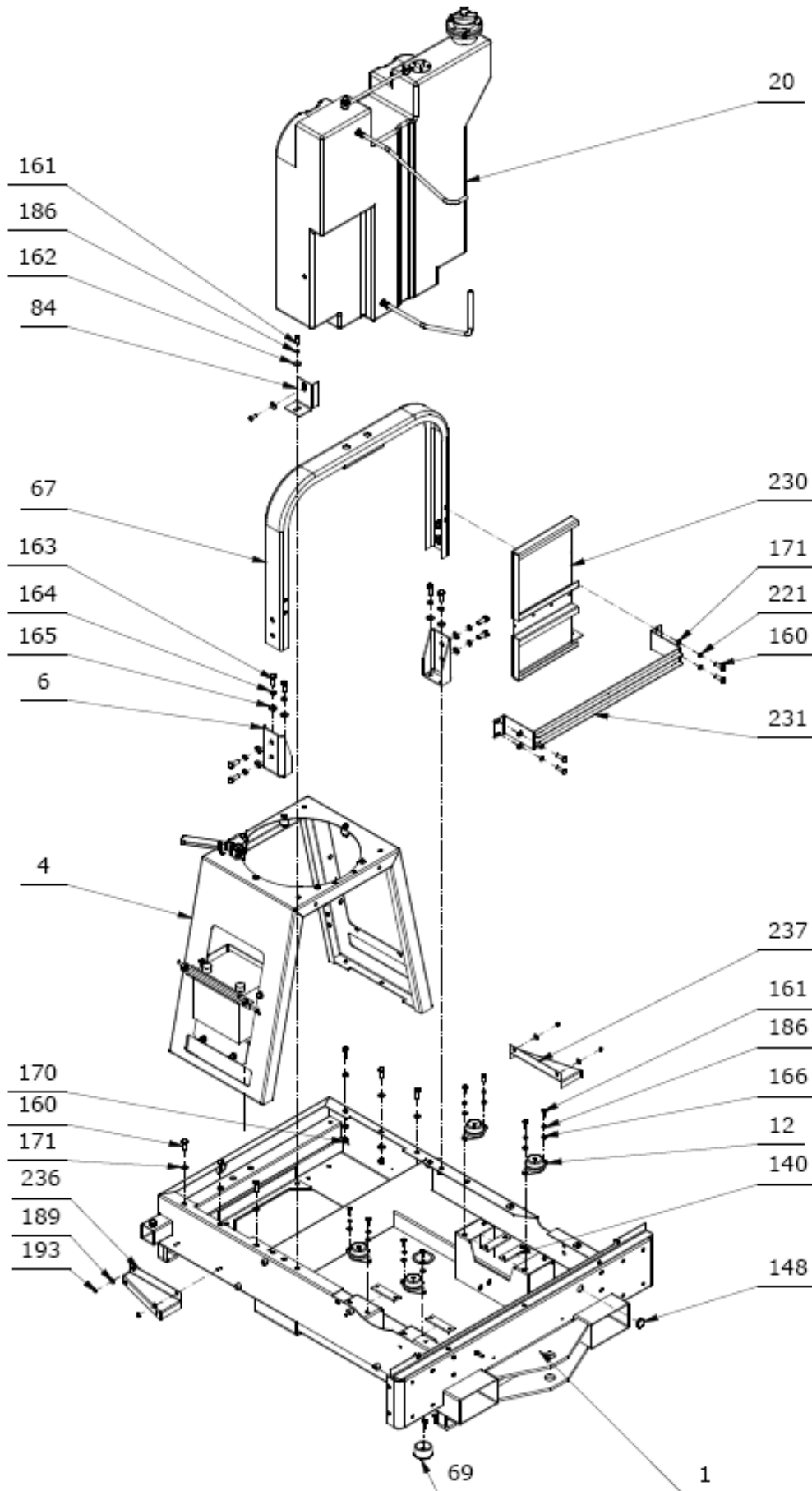


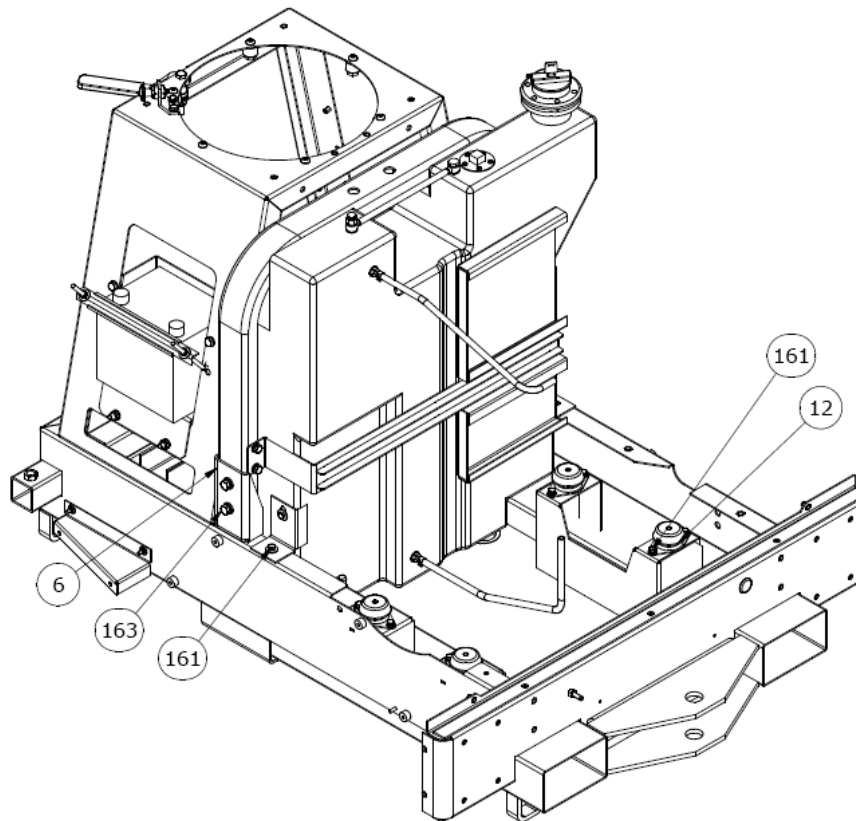
### .Lifting support-Option (BOM)

ITEM NO.	KIT NO.	DESCRIPTION	QTY
3	8001799	DOWN SUPPORT OF MASTIL ZINC LIGHT TOWER 8KVA	1
4	8025276	BATTERY SUPPORT L/T8KVA RAL9005	1
5	8001798	SPRING GASKET OF MASTIL LIGHT TOWER 8KVA	1
8	8011693	MAST SUPPORT STRUCTURE L/T 8KVA RAL9005	1
10	8024958	BATTERY MF 12V 60AH 500CCA JK	1
11	8001669	BATTERY FIX KIT L/T 8KVA RAL9005	1
12	8001801	SCREW FOR FIX BATTERY LIGHT TOWER 8KVA	2
17	8006814	WASHER COLUMN (11-20)X20MM ZINC	1
19	8000129	NUT M. 8 SPRING LOCK GB/T 889.1-8	4
20	8000104	WASHER M8 WIDE FLANGE GB/T96.1	2
21	8000091	WASHER M. 10 NARROW FLANGE GB/T97.1	8
22	8000122	NUT M. 10 SPRING LOCK GB/T 889-8	4
23	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	4
24	8000221	SCREW M. 8x25 Hexagonal GB/T5783-8.8	2
25	8006184	WASHER M. 8 NARROW FLANGE STAINLESS	4
27	8019864	BATTERY PLATE BLACK RUBBER 41*11MM	1
31	8006996	SCREW M10X16 ROUND HEAD INOX ALLEN STAINLESS GB/T70.2-2000	6
33	8006783	NYLON COLUMN LOCKING WHEEL $\Phi$ 14.5-30	6
34	8000304	WASHER M. 14 NARROW FLANGE GB/T97.1	6
35	8005301	SCREW M10X17 INNER TEETH	6
61	8010787	SPRING MAST LOCK PIN NEW	1
62	8006780	PIN BREAK PLATE	1
63	8010788	BREAK PLANK M16 NEW	1
64	8013645	STOP WASHER GB/T 894.1-1986 12	1



.Mast Support, Lifting Support, Fuel Tank and Shock Absorber.



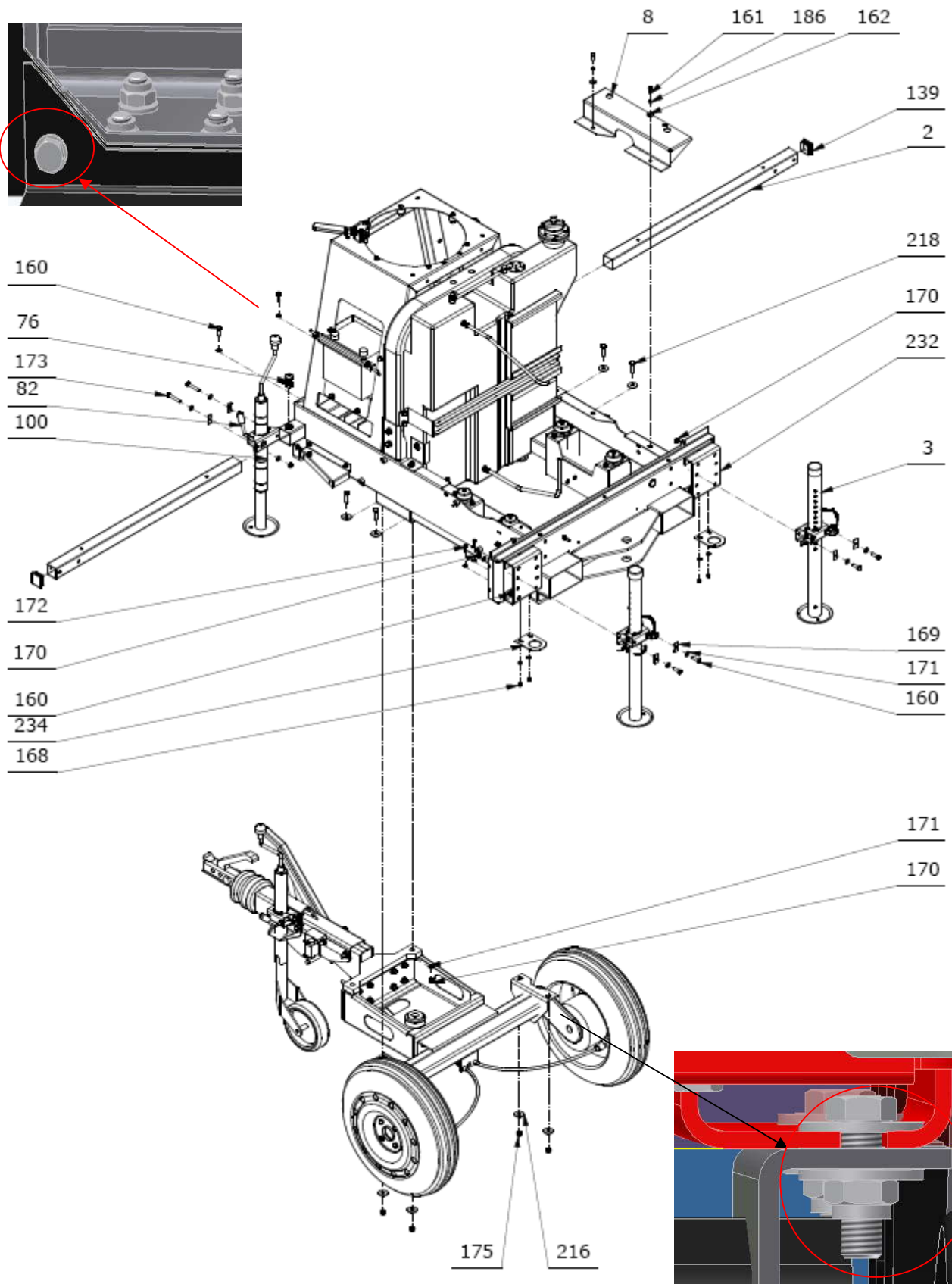


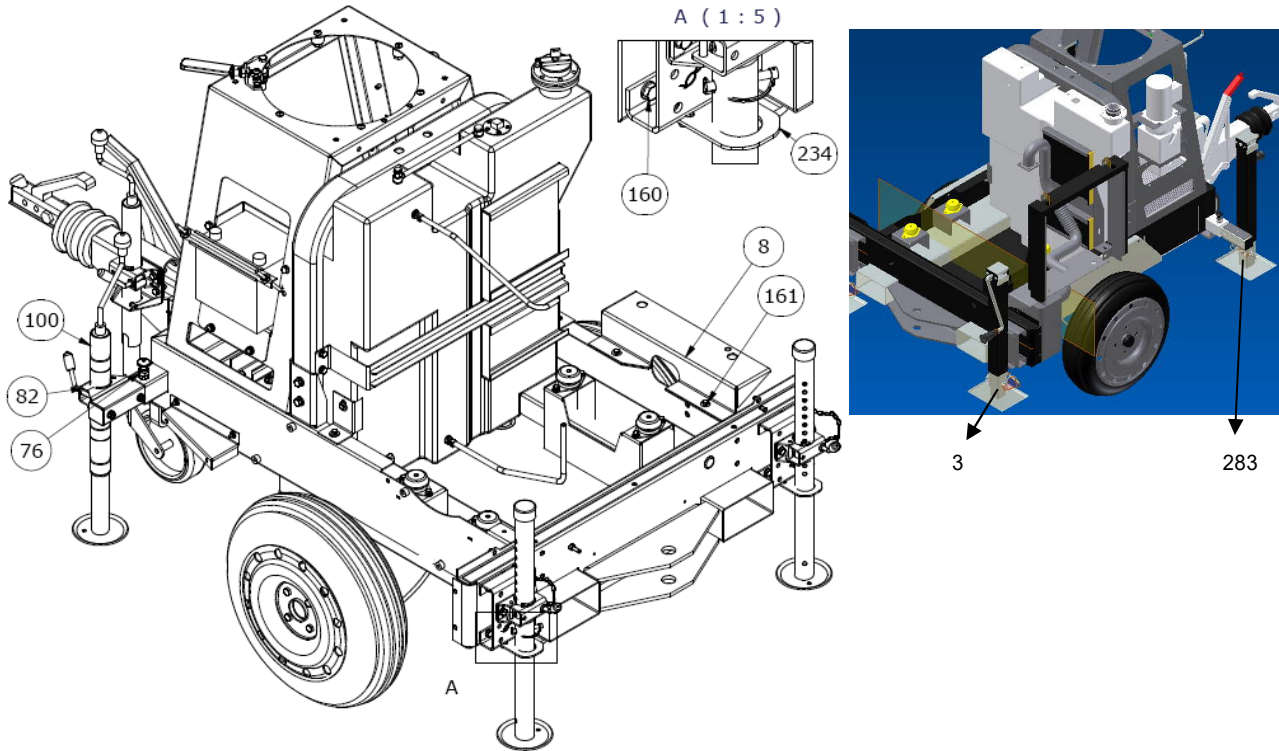
**.Mast Support, Lifting Support, Fuel Tank and Shock Absorber (BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8029557	CHASSIS NEW BASE FOR MECC ALT L/T 8KVA RAL9005	1
4		DUMMY MAST SUPPORT PRE-ASS	1
6	8001795	SUPPORT FOR LIFTING ARC L/T 8KVA RAL 9005	2
12	8001548	SHOCK ABSORVER 3EST-78A	4
20	8001783	PLASTIC FUEL TANK L/T 8KVA	1
67	8001792	LIFTING ARC OF LIGHT TOWER 8KVA RAL9005	1
69	3015705	DRAIN TAP 2 IN	1
84	8002237	PLATE-1 FIX FUELTANK L/T 8KVA	1
140	8002234	PLATE ENGINE SHOCK ABSORVER L/T 8KVA	4
148	3015754	WIREHOLDER DG16/21	1
160	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	10
161	8000112	SCREW M. 8x20 Hexagonal GB/T5783-8.8	10
162	8000104	WASHER M8 WIDE FLANGE GB/T96.1	2
163	8000273	SCREW M12x30 Hexagonal GB/T 5783-8.8	8
164	8000271	Washer M. 12 Spring LOCK GB/T93	8
165	8000285	WASHER M12 GB/T97.1	8
166	8000103	WASHER M. 8 NARROW FLANGE GB/T97.1	8
170	8000122	NUT M. 10 SPRING LOCK GB/T 889-8	6
171	8000091	WASHER M. 10 NARROW FLANGE GB/T97.1	16
186	8000105	Washer M. 8 Spring LOCK GB/T93	9
189	8000101	WASHER M6 WIDE FLANGE GB/T96.1	2
193	8000128	NUT M6 SPRING LOCK DIN 985	2
221	8000092	WASHER M10 SPRING LOCK GB/T93	4
230	8005861	FIX PLATE PROTECT FUEL TANK L/T 8KVA RAL9005 PRE-ASS	1
231	8028562	FIXTURE OF FUEL TANK LT COMPACT RAL9005	1
236	8034541	FIX SUPPORT 1 RAL9005	1
237	8034542	FIX SUPPORT 2 RAL9005	1



.Trailer, Chassis, Steel Support and Radiator Support.





**.Trailer,Chassis, Steel Support and Radiator Support. (BOM).**

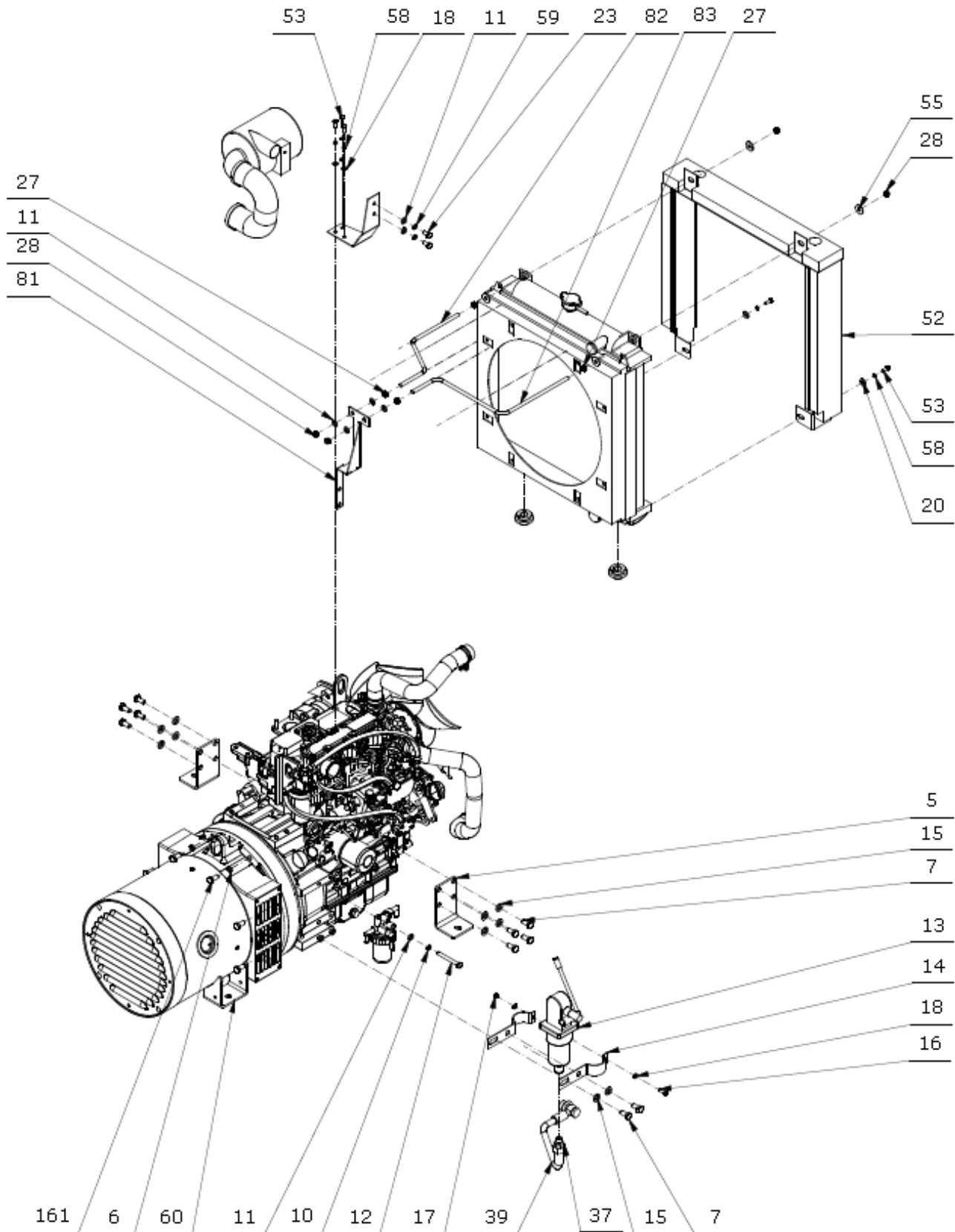
ITEM NO.	PART NO.	DESCRIPTION	QTY
2	8001886	SUPPORT TUBE FOR POISE GALVANIZED L-T 8KVA	2
3	8006817	CHASSIS STEEL SUPPORT KIT L/T 8KVA NEW(NO ADJUSTABLE)	2
8	8007684	RADIATOR SUPPORT L/T 8KVA AUS RAL9005	1
76	8001798	SPRING GASKET OF MASTIL LIGHT TOWER 8KVA	2
82	8001561	CLAMPS 48 (HEAVY)	2
100	8025283	CHASSIS SUP FRONT $\Phi$ 48 FOR LIGHTING TOWER	2
139	8001976	TUBE PLASTIC COVER	2
160	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	14
161	8000112	SCREW M.8x20 Hexagonal GB/T5783-8.8	2
162	8000104	WASHER M8 WIDE FLANGE GB/T96.1	2
166	8000103	WASHER M.8 NARROW FLANGE GB/T97.1	8
168	8000129	NUT M.8 SPRING LOCK GB/T 889.1-8	4
169	8003182	GALVANIZED WASHER LIGHT TOWER	8
170	8000122	NUT M.10 SPRING LOCK GB/T 889-8	18
171	8000091	WASHER M.10 NARROW FLANGE GB/T97.1	36
172	8000221	SCREW M8x25 Hexagonal GB/T5783-8.8	4
173	8002279	SCREW M10x75 HEXAGONAL GB/T 5783	4
175	8000123	NUT M.12 SPRING LOCK GB/T 889-8	4
186	8000105	Washer M.8 Spring LOCK GB/T93	2
216	8000094	WASHER M12 WIDE FLANGE GB/T96.1	8
218	8002198	SCREW M12x40 Hexagonal GB/T 5783-8.8	4
232	8029487	ADAPTOR PLATE REAR FEET LT COMPACT RAL9005	2
234	8032560	STEEL SUPPORT HOLDER L/T 8KVA(NEW JCB CHASSIS)	2

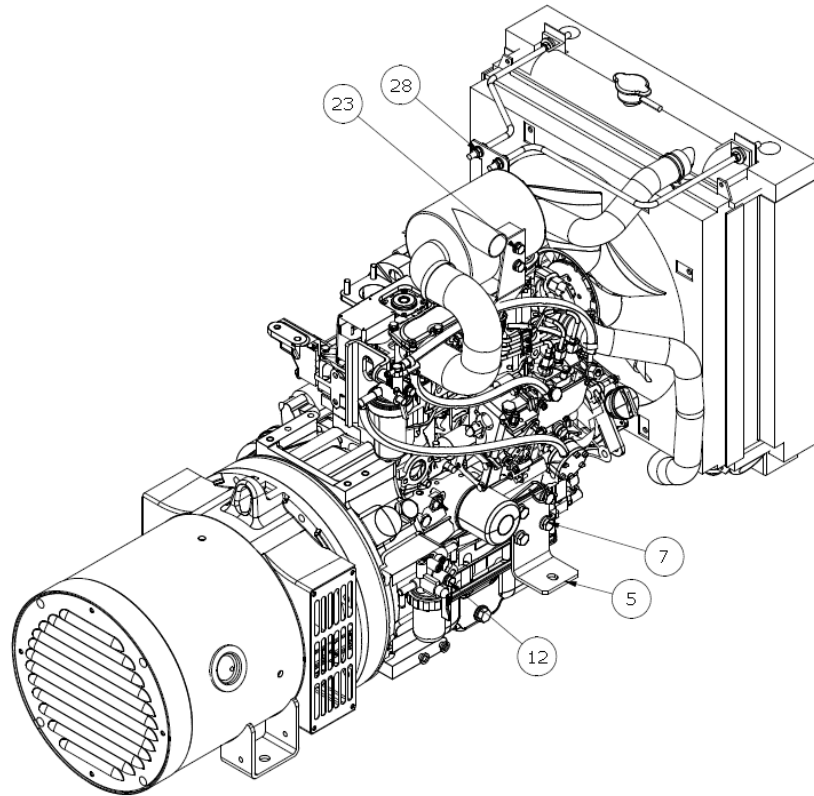
**Option: Heavy Duty Kit (Other detail to see [HDK](#))**

3	8037956	CHASSIS STEEL SUPPORT SQUARE BACK L/T 8KVA WITH PIN	2
100	8037954	CHASSIS STEEL SUPPORT SQUARE-1 FRONT L/T 8KVA WITH PIN	1
283	8037955	CHASSIS STEEL SUPPORT SQUARE-2 FRONT L/T 8KVA WITH PIN	1



.Monoblock-Pre-Assembly Detail.



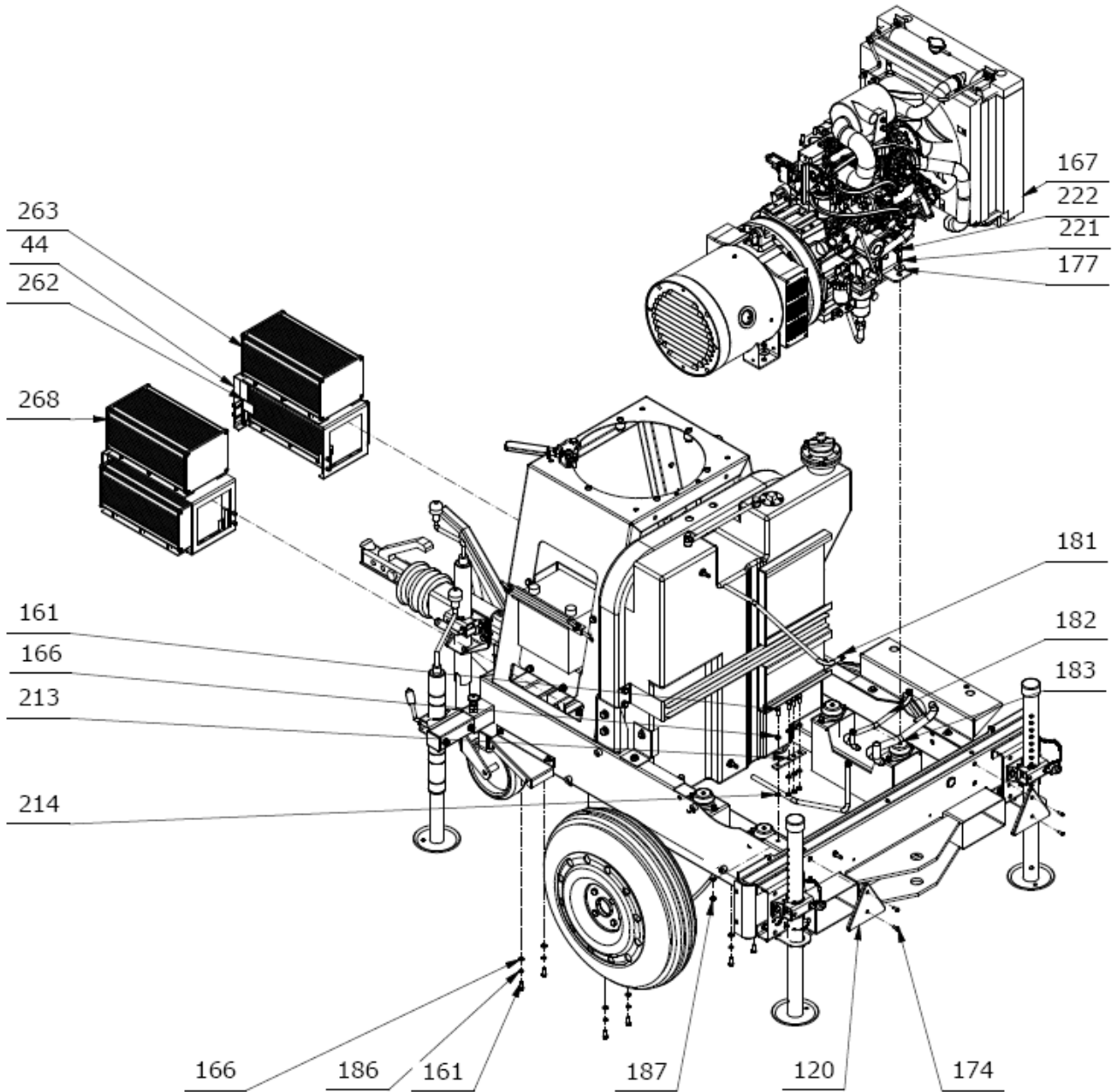


**.Monoblock (BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
5	3019665	ENGINE BLOCK SUPPORT YANMAR 3TNV76 BLACK 9005	2
6	8000092	WASHER M.10 SPRING LOCK GB/T93	6
7	8000107	SCREW M.10x20 Hexagonal GB/T 5783-8.8	10
10	8000105	Washer M.8 Spring LOCK GB/T93	1
11	8000103	WASHER M.8 NARROW FLANGE GB/T97.1	7
12	8000746	SCREW M8x70 HEXAGONAL GB 5782-8.8	1
13	8000651	OIL EXTRACTION PUMP 8-40 KVA	1
14	8000658	SUPPORT OIL EXTRACTION PUMP YANMAR 8-40 KVA	2
15	8000091	WASHER M.10 NARROW FLANGE GB/T97.1	10
16	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	1
17	8000128	NUT M.6 SPRING LOCK GB/T 889-8	1
18	8000100	WASHER M.6 NARROW FLANGE GB/T 97.1	5
20	8000101	WASHER M.6 WIDE FLANGE GB/T96.1	2
23	8000401	SCREW M8X1.25X16 HEXAGONAL GB/T 5783-8.8	2
27	8000222	NUT M.8 GB/T6170-8	4
28	8000129	NUT M.8 SPRING LOCK GB/T 889.1-8	6
37	8004602	DOUBLE MALE M14x1.5-M14x1.5 WITH WASHER M14 INSIDE RUBBER	1
39	8004603	OIL EXTRACTION HOSE YANMAR 8KVA KIT	1
52	8007665	RADIATOR SEPARATOR L/T 8KVA PRE-ASS AUS/ESP RAL9005	1
53	8000294	SCREW M6 x 16 HEXAGONAL GB 5783-8.8	5
55	8000104	WASHER M8 WIDE FLANGE GB/T96.1	4
58	8000224	Washer M.6 Spring LOCK GB/T93	3
59	8000105	WASHER M.8 SPRING LOCK GB/T93	2
60	8039124	ALTERNATOR ECP28 XS/4 SA5 V7.5 HIMOINSA R2	1
81	8005663	BASE RADIATOR BRACE SUPPORT 3TNV76 RAL9005	1
82	8005664	LEFT RADIATOR BRACE YANMAR 3TNV76 RAL9005	1
83	8005665	RIGHT RADIATOR BRACE YANMAR 3TNV76 RAL9005	1
161	8000650	SCREW M10*1.5*20 ALLEN HEAD CAP GB/T70.1-12.9	6

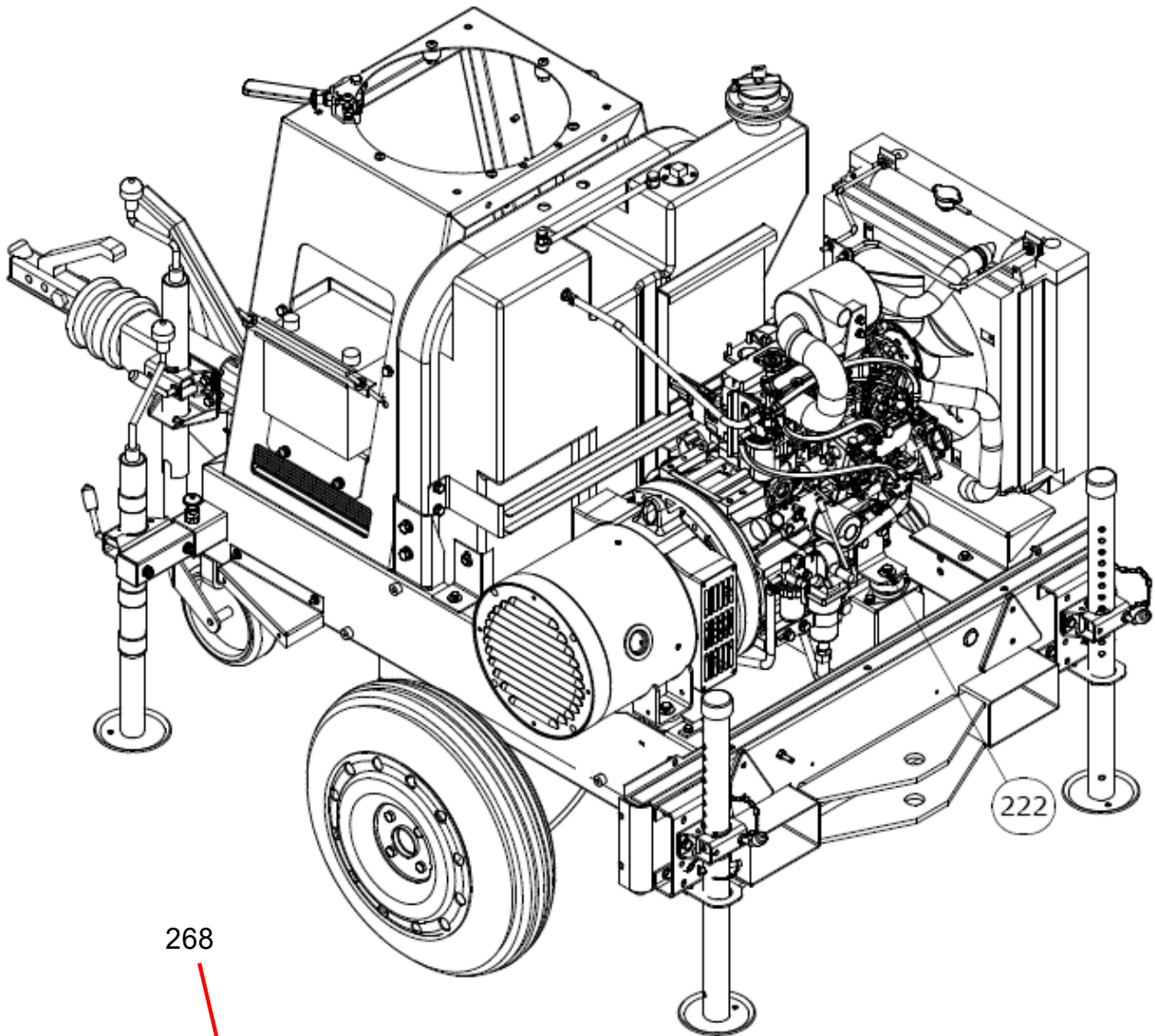


.Monoblock + Light Device.

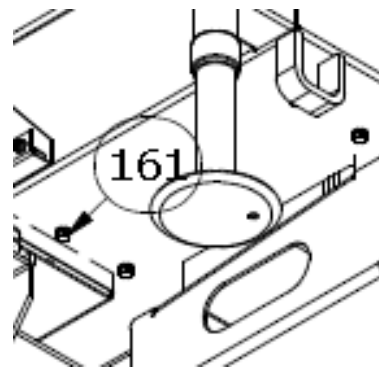
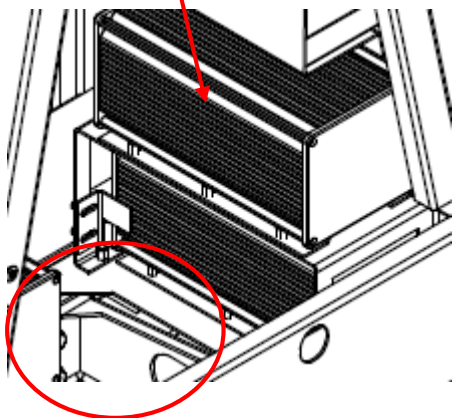




.Assembly Details



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**. Monoblock + Light Dvice(BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
44	8010302	LIGHT BALLAST BOX HOLDER RAL9005	2
120	8007225	REFLECTOR RED Δ-SHAPE FOR L/T	2
161	8000112	SCREW M. 8x20 Hexagonal GB/T5783-8. 8	12
166	8000103	WASHER M. 8 NARROW FLANGE GB/T97. 1	16
167		DUMMY MONOBLOCK	1
174	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	4
177	8000093	WASHER M10 WIDE FLANGE GB/T96. 1	4
181	8005622	CLAMP Φ12	4
182	8020452	FUEL PIPE Φ8*14	3m
183	3001347	TUBE POLYAMIDE BLACK PG16-DN21NW17	0. 7m
186	8000105	Washer M. 8 Spring LOCK GB/T93	8
187	8000222	NUT M. 8 GB/T6170-8	4
213	8002319	KIT COPPER LIGHT TOWER 4 POLE	1
214	8000102	WASHER SAW TOOTH	10
221	8000092	WASHER M. 10 SPRING LOCK GB/T93	4
222	8000300	GB 5783-86 (Regular Thread) M10 x 30	4
262	8010305	FIX PLATE LIGHT BALLAST BOX L/T 8KVA RAL9005	2
268	8042383	BALLAST DEVICE KIT 230V/50HZ PR ACOMPACT	4

Option: TO 60Hz' s EU BALLAST

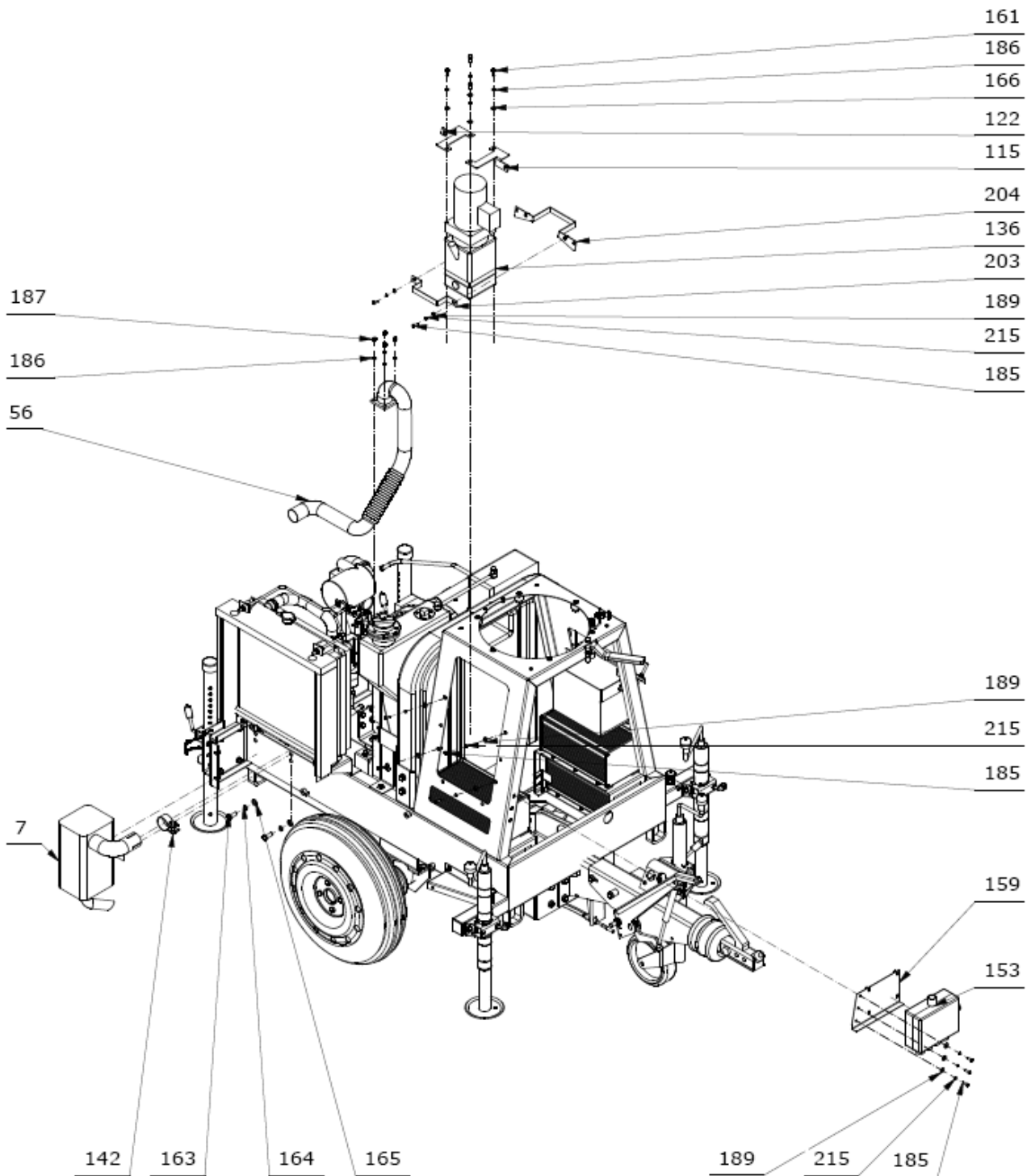
263	8027380	BALLAST DEVICE KIT 3/4 60HZ YS EU PRE-ASS 0. 7MT COMPACT	2
268	8027379	BALLAST DEVICE KIT 1/2 60HZ YS EU PRE-ASS 1. 2MT COMPACT	2

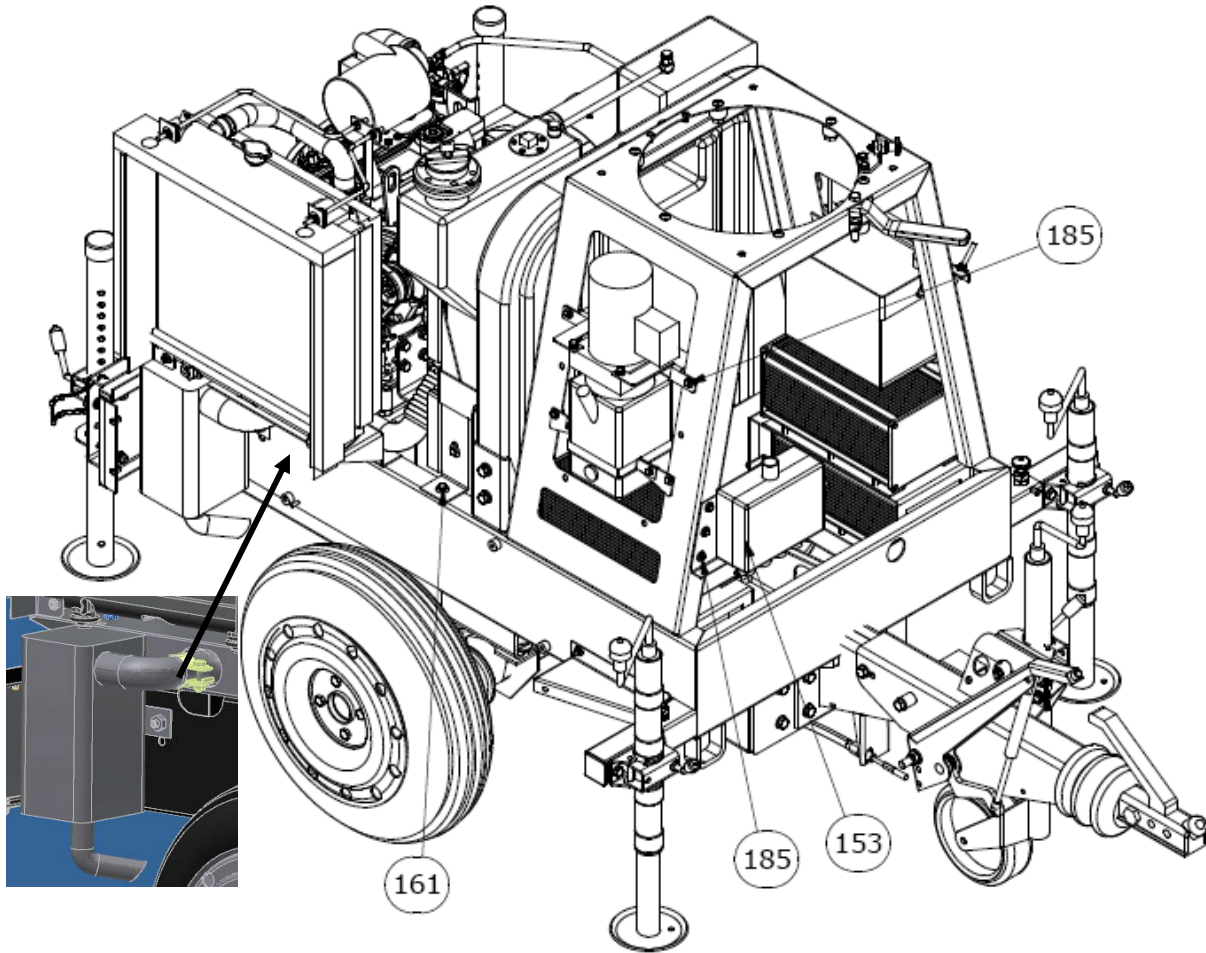
Option: TO 50Hz' s EU BALLAST

263	8025963	BALLAST DEVICE KIT 3/4 50HZ YS EU PRE-ASS 0. 7MT	2
268	8025962	BALLAST DEVICE KIT 1/2 50HZ YS EU PRE-ASS 1. 2MT	2



.Exhaust Pipe, Hydraulic Pum and Distribution Box.



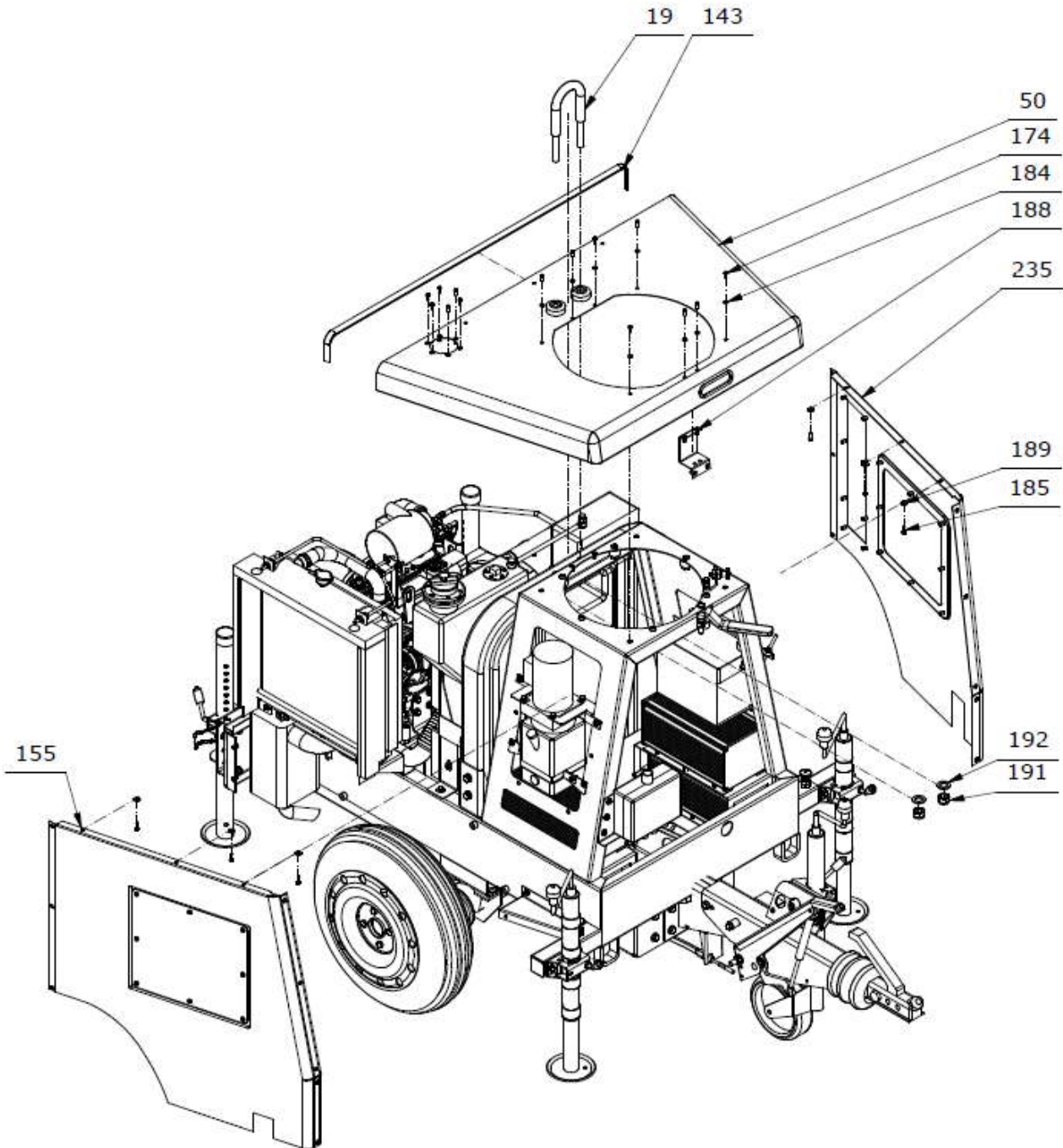


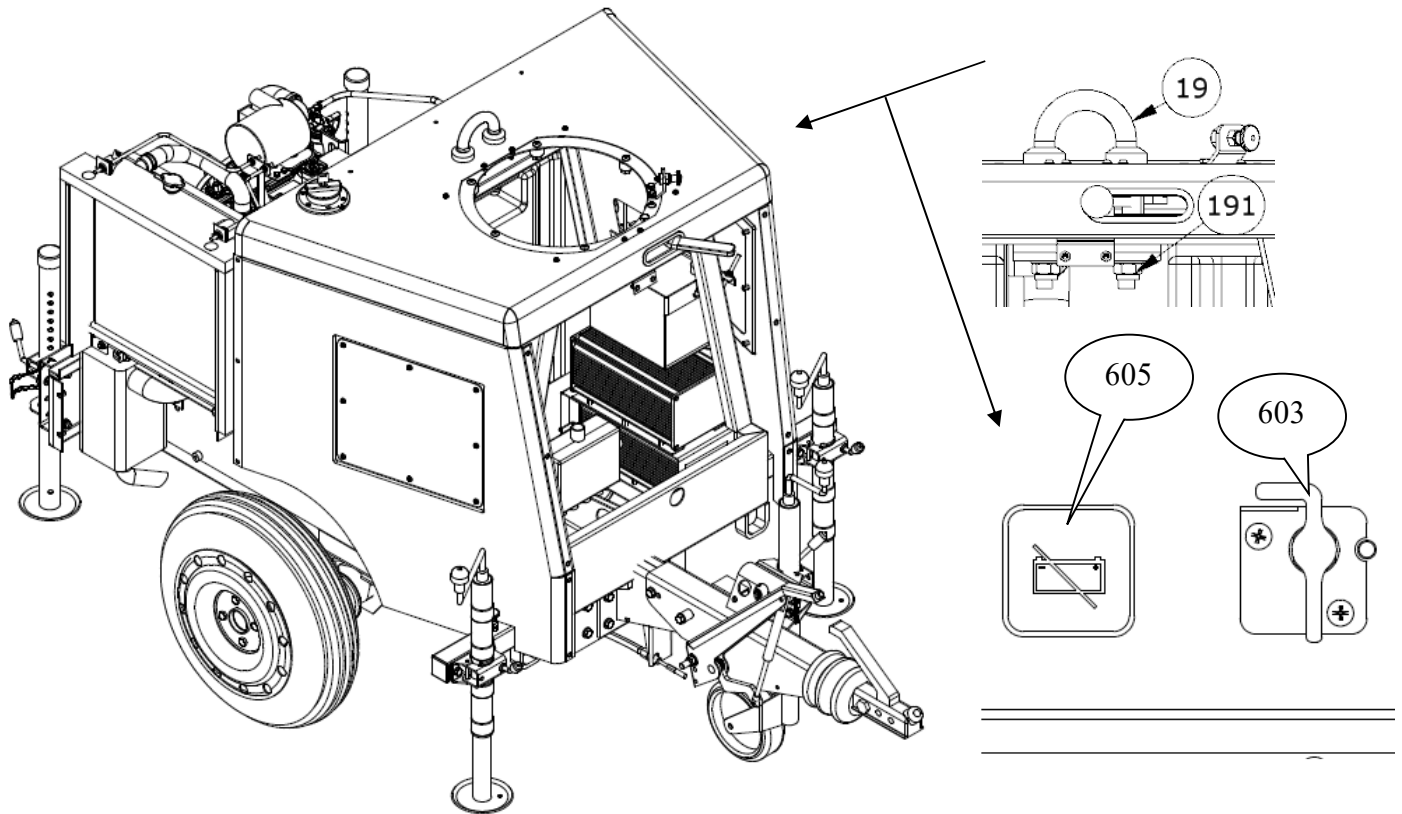
**.Exhaust Pipe, Hydraulic Pum and Distribution Box (BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
7	8030971	MUFFLER COMPACT RAL9005 LT 8KVA	1
56	8006586	EXHAUST COLLECTOR PIPE FOR APOLO COMPACT	1
115	8006577	MAST PUMP FIX PLATE RIGHT L/T AUS RAL9005	1
122	8006801	MAST PUMP FIX PLATE LEFT L/T AUS RAL9005	1
136	8065854	HYDRAULIC PUMP LT 12VDC 20Mpa	1
142	8028054	CLAMP GALVANIZE IR-KG-52/55 (8002552)	1
153	8052624	LIGHT DISTRIBUTION BOX LED BIG PRE-ASS M7	1
159	8006663	SUPPORT DISTRIBUTION BOX BIG L/T 8KVA AUS RAL9005	1
161	8000112	SCREW M. 8x20 Hexagonal GB/T5783-8. 8	4
163	8000273	SCREW M12x30 Hexagonal GB/T 5783-8. 8	2
164	8000271	Washer M. 12 Spring LOCK GB/T93	2
165	8000285	WASHER M12 GB/T97. 1	2
166	8000103	WASHER M. 8 NARROW FLANGE GB/T97. 1	4
185	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8. 8	7
186	8000105	Washer M. 8 Spring LOCK GB/T93	8
187	8000222	NUT M. 8 GB/T6170-8	4
189	8000101	WASHER M. 6 WIDE FLANGE GB/T96. 1	7
203	8025285	MAST VIBO PUMP CLAMP RAL9005	1
204	8025286	MAST PUMP SUPPORT VIBO LT/8KVA RAL9005	1
215	8000224	WASHER M. 6 SPRING LOCK GB/T93	7



.Front Cover, Hook Lift.





### .Front Cover, Hook Lift (BOM).

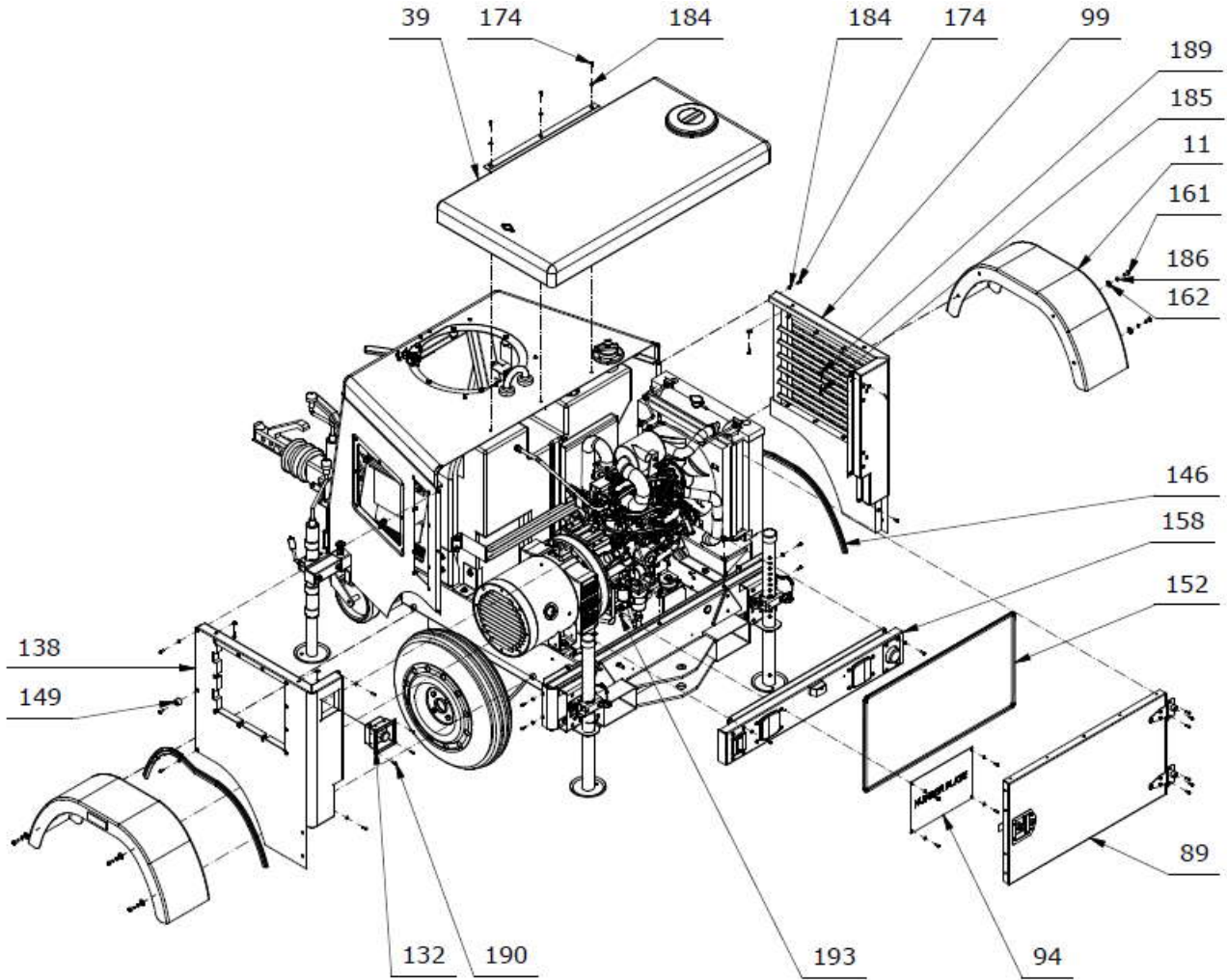
ITEM NO.	PART NO.	DESCRIPCION	QTY
19	3015704	HOOK LIFTING D25x100	1
50	8032590	FRONT ROOF L/T 8KVA RAL2002 PRE-ASS	1
143	8001775	RUBBER OF THE ROOF(1.378M)	1
155	8032591	FRONT RIGHT COVER L/T 8KVA RAL2002 PRE-ASS	1
174	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	14
184	8006182	WASHER M6 NARROW FLANGE STAINLESS	8
185	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	6
188		FRONT COVER FIX PART L/T 8KVA RAL9005 PRE-ASS(8001666)	1
189	8000101	WASHER M.6 WIDE FLANGE GB/T96.1	6
191	8000130	NUT M20 SPRING LOCK GB/T 889.1-8	2
192	8000949	WASHER M.20 WIDE FLANGE GB/T96.1	2
235	8067121	FRONT LEFT COVER FOR NEW POWER BOX L/T 8KVA RAL2002 PRE-ASS	1

#### Option: Battery disconnector

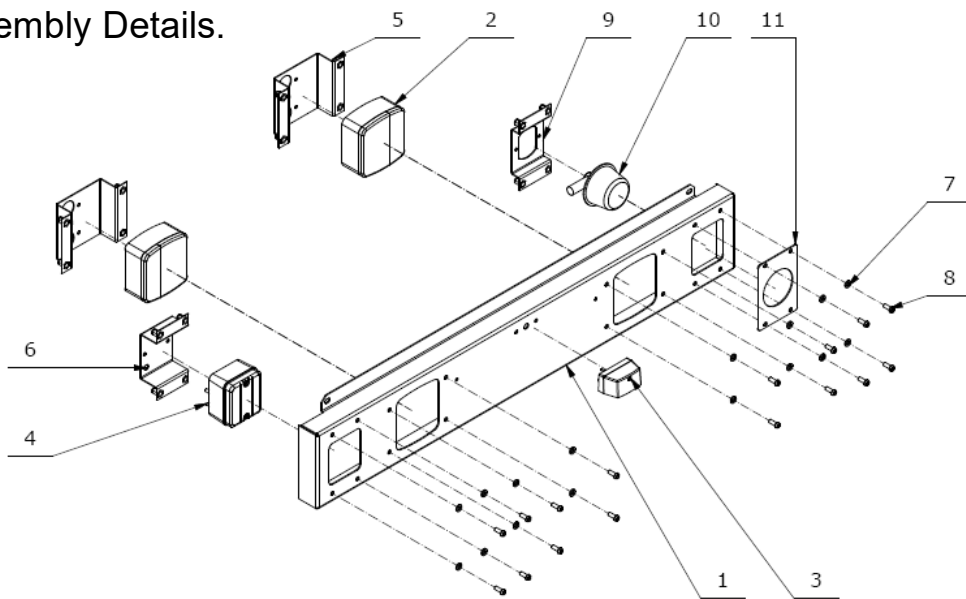
235	8035701	FRONT LEFT COVER L/T WITH BAT DIS 8KVA RAL2002 PRE-ASS	1
	8000745	SCREW CROSS RECESSED PAN HEAD M5*16 GB/T818-8.8	2
	8000098	WASHER M.5 NARROW FLANGE GB/T97.1	2
603	8009957	BATTERY DISCONNECTOR 200/2000A SMALL(AES-1411-18B-L)	1
	8000126	NUT M.5 SPRING LOCK GB/T889-8	2
605	8038497	STICKER "BATTERY ISOLATER" INTERNATIONAL	1



.Rear Cover, Door ,Wheel Cover Assembly Details.



.158 Assembly Details.

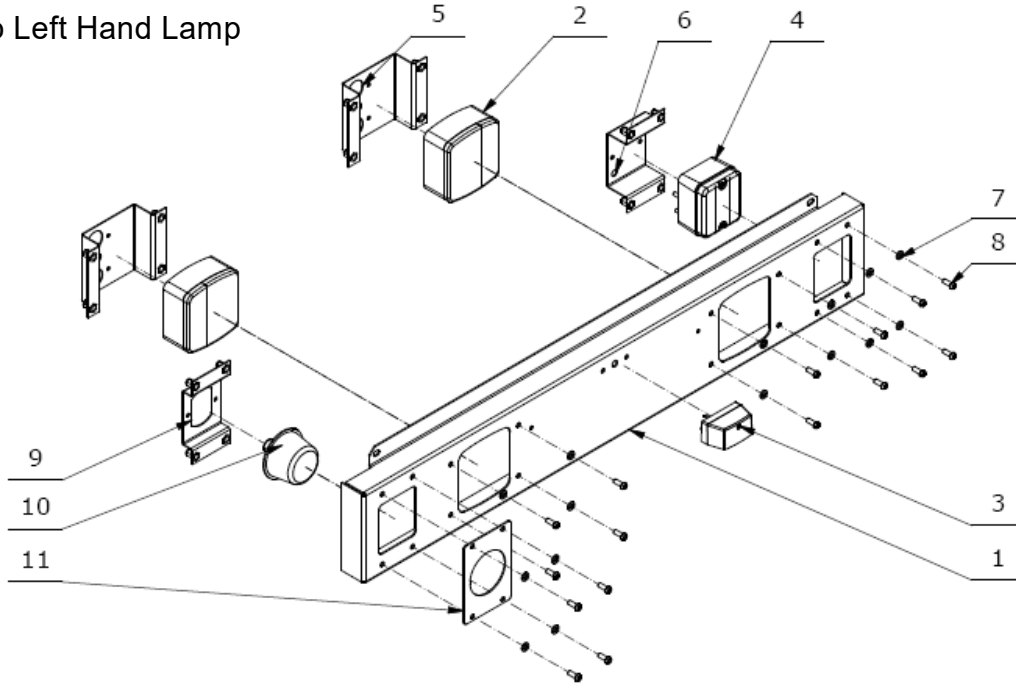


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8007678	REAR COVER L/T AUS 8KVA RAL2002	1
2	8006485	REAR LIGHT Y/R/R/W	2
3	8008463	NUMBER PLATE LAMP	1



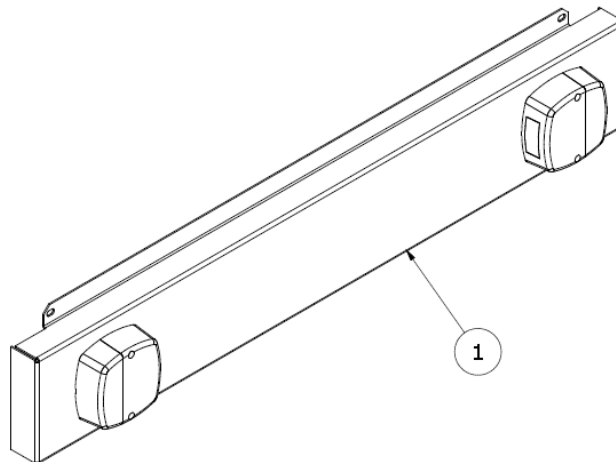
4	8008113	FOG LIGHT RED FOR LIGHT TOWER	1
5		REAR LIGHT SUPPORT L/T 8KVA RAL9005 PRE-ASS(8007673)	2
6		SUPPORT FOG LIGHT L/T RAL9005 PRE-ASS(8008232)	1
7	8006182	WASHER M6 NARROW FLANGE STAINLESS	16
8	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	16
9	8026222	SUPPORT FOG LIGHT ROUNDNESS L/T RAL9005	1
10	8027981	FOG LIGHT L/T 12VDC ROUNDNESS WIRING 0.65MT	1
11	8026218	PLATE NEW FOG LIGHT ROUNDNESS L/T 8KVA RAL2002	1

**Option: To Left Hand Lamp**

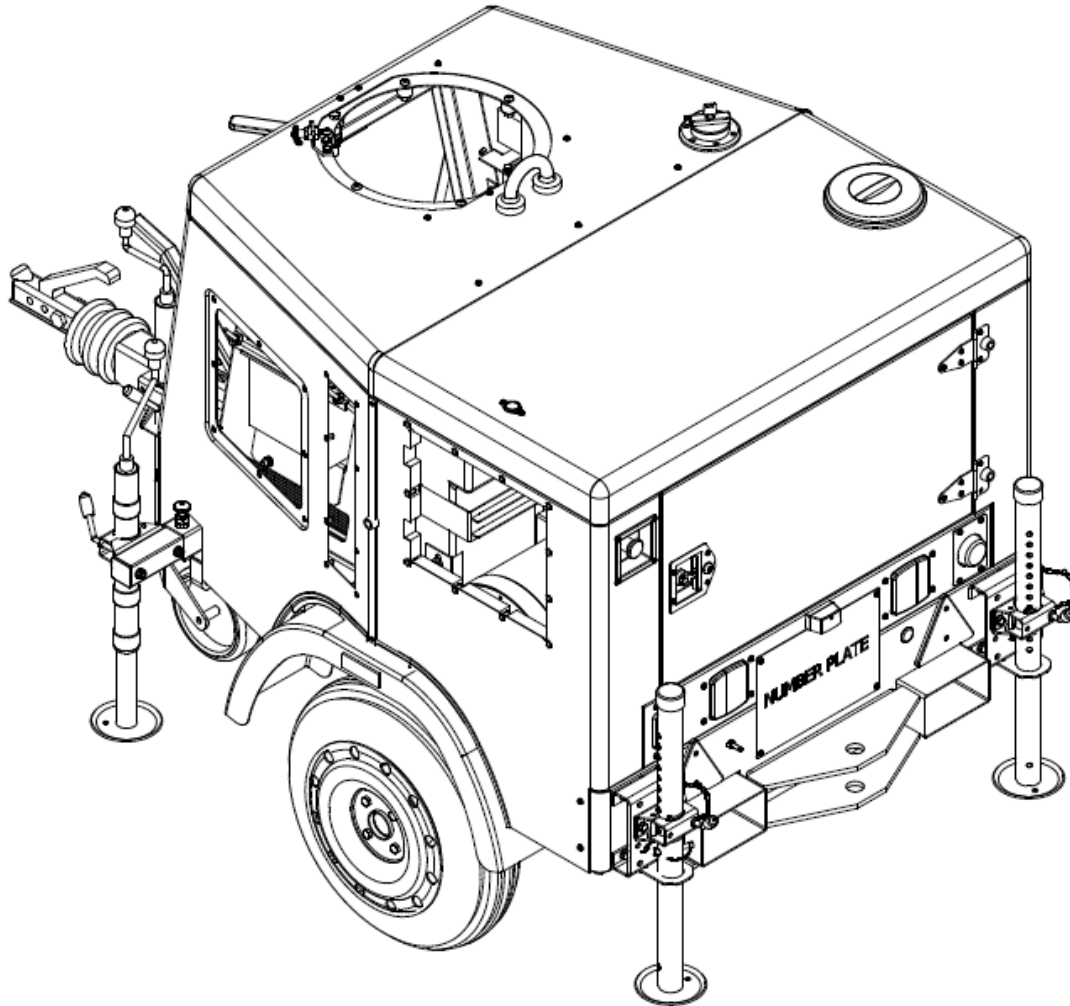


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8007678	REAR COVER L/T AUS 8KVA RAL2002	1
2	8006485	REAR LIGHT Y/R/R/W	2
3	8008463	NUMBER PLATE LAMP	1
4	8008113	FOG LAMP FOR LIGHT TOWER	1
5		REAR LIGHT SUPPORT L/T 8KVA RAL9005 PRE-ASS(8007673)	2
6		SUPPORT FOG LIGHT L/T RAL9005 PRE-ASS(8008232)	1
7	8006182	WASHER M6 NARROW FLANGE STAINLESS	16
8	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	16
9	8026222	SUPPORT FOG LIGHT ROUNDNESS L/T RAL9005	1
10	8027981	FOG LIGHT L/T 12VDC ROUNDNESS WIRING 0.65MT	1
11	8026218	PLATE NEW FOG LIGHT ROUNDNESS L/T 8KVA RAL2002	1

**Option: Two Lamp**



1	8011900	REAR COVER L/T AUS 8KVA RAL2002 (2 LAMPS)	1
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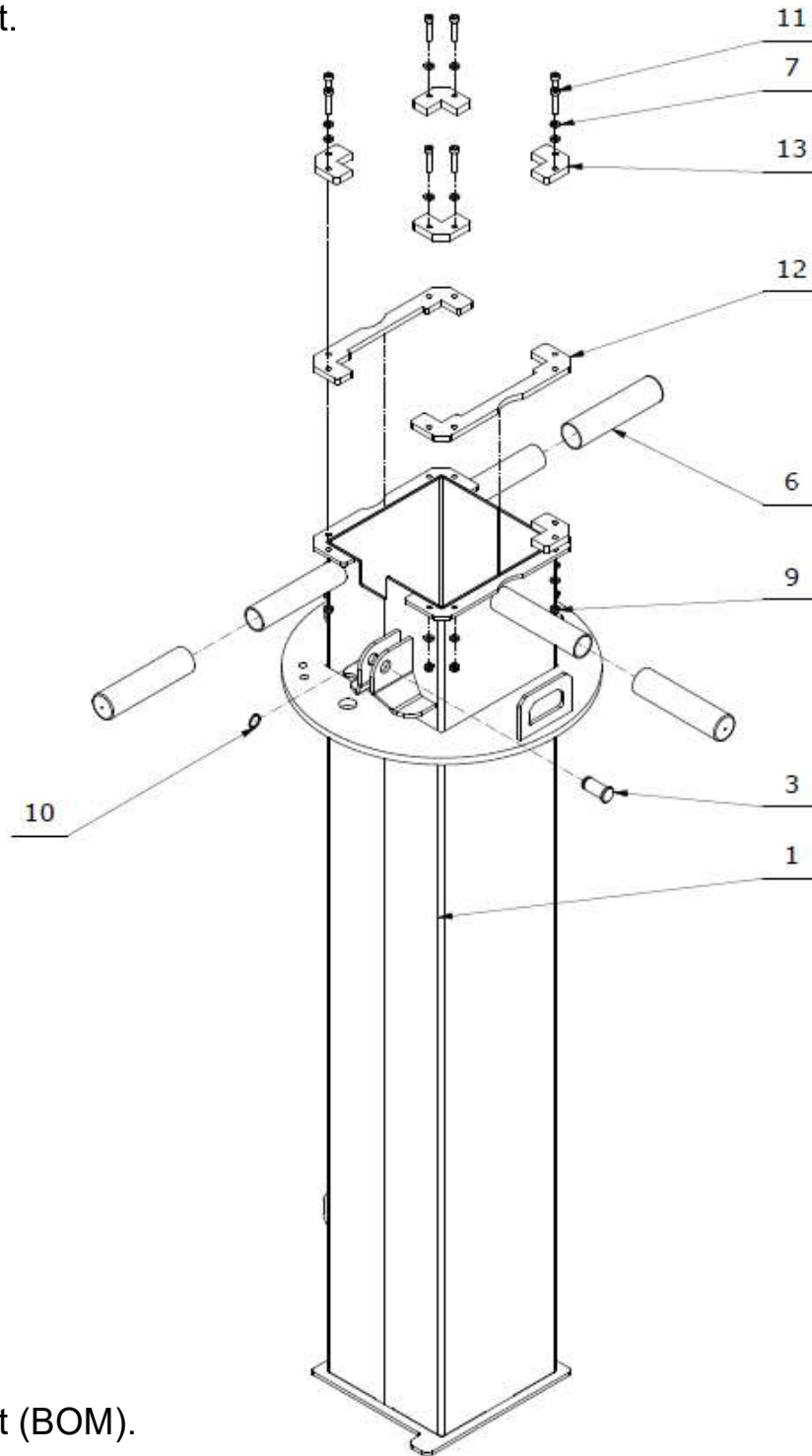


### .Rear Cover, Door and Wheel Cover (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
11	8001552	THE WHEEL COVER WITH REFLECTORS PE RAL9005	2
39	8007664	REAR ROOF L/T 8KVA RAL2002 PRE-ASSEMBLY AUS	1
89	8032586	DOOR L/T 8KVA RAL2002 PRE-ASS	1
94		NUMBER PLATE	1
99	8032587	REAR RIGHT COVER L/T 8KVA PRE-ASSEMBLY RAL2002	1
132	8070595	EMERGENCY SWITCH KIT PRE-ASS	1
138	8032588	REAR LEFT COVER L/T 8KVA PRE-ASSEMBLY RAL2002	1
146	8001774	RUBBER OF THE WHEEL COVER(1.1M)	2
149	3015801	RUBBER DOORSTOPPER	1
152	8022161	RUBBER SEALING FOR DOOR	2.5m
158	8026224	REAR LIGHT KIT L/T 8KVA COMMON RAL2002 PRE-ASS	1
161	8000112	SCREW M.8x20 Hexagonal GB/T5783-8.8	6
162	8000104	WASHER M8 WIDE FLANGE GB/T96.1	6
174	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	31
184	8006182	WASHER M6 NARROW FLANGE STAINLESS	30
185	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	4
186	8000105	Washer M.8 Spring LOCK GB/T93	6
189	8000101	WASHER M.6 WIDE FLANGE GB/T96.1	4
190	8009926	SCREW M4.2X13 PHILLIPS STEEL-STEEL GB/T 15856.2	4
193	8000128	NUT M.6 SPRING LOCK GB/T 889-8	4



**.Mast First Kit.**

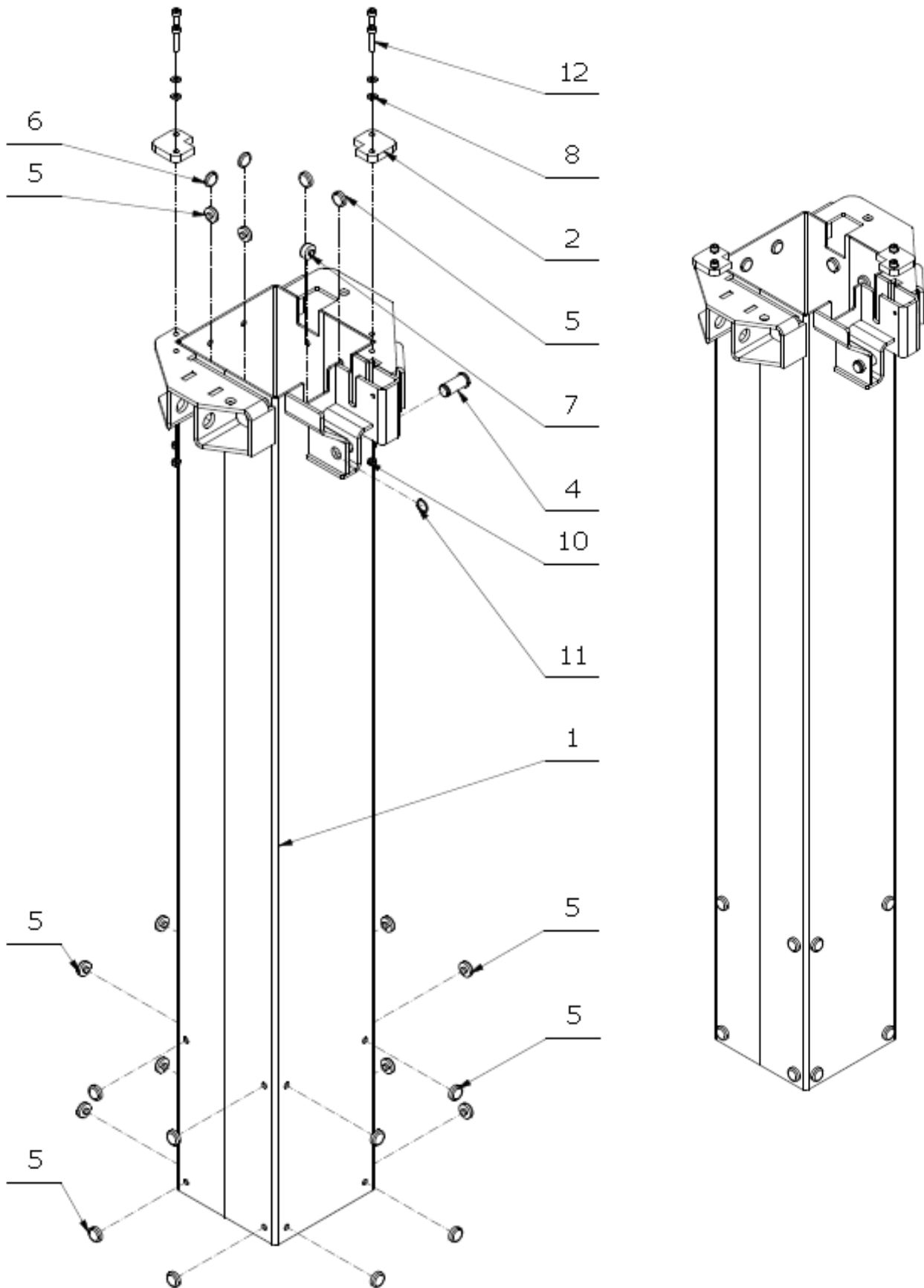


**.Mast First Kit (BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028442	FIRST MAST (SQUARE PIPE) COMPACT L/T 8KVA RAL9005	1
3	8001869	PIN $\phi$ 16 L38.2	1
6	8030390	RUBBER COVER MOCAP RVG 1.25" X 5.5" TH 0.65" BLACK	3
7	8000100	WASHER M. 6 NARROW FLANGE GB/T 97.1	16
9	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	8
10	8002184	STOP WASHER GB/T 894.1-1986 16	1
11	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	8
12	8062084	MAST BASE REINFORCEMENT 8MM RAL9005	2
13	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT	4



.Second Kit.



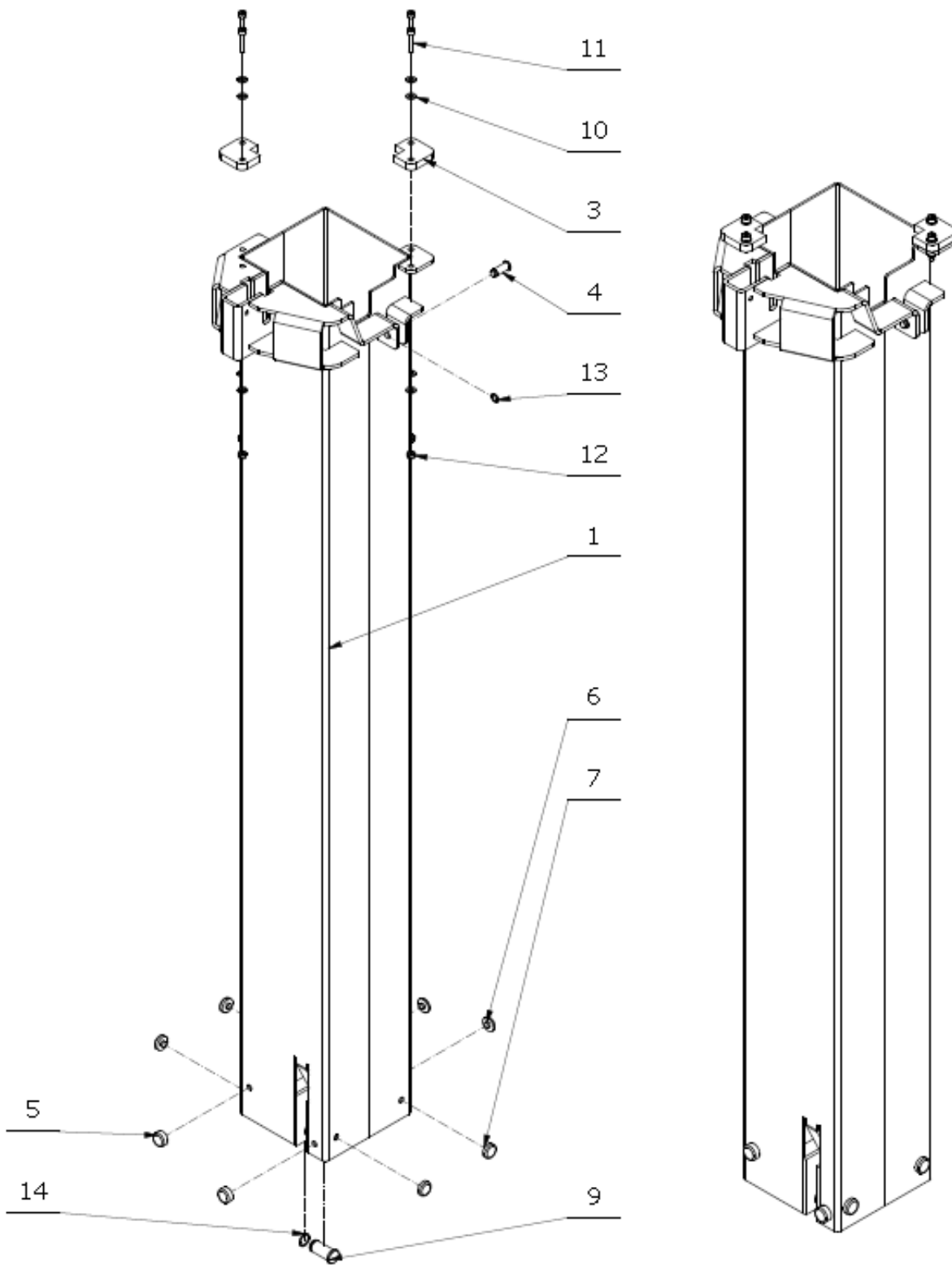


**.Second Kit (BOM).**

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028443	SECOND MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8009178	NYLON BLOCK L-SHAPE 9MM LT 8KVA	2
4	8001869	PIN $\phi$ 16 L38.2	1
5	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	20
6	8009174	NYLON 4MM OF MASTIL LIGHT TOWER 8KVA	2
7	8009176	NYLON 9MM OF MASTIL LIGHT TOWER 8KVA	1
8	8000100	WASHER M. 6 NARROW FLANGE GB/T 97. 1	8
10	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	4
11	8002184	STOP WASHER GB/T 894. 1-1986 16	1
12	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	4



.Third Kit.



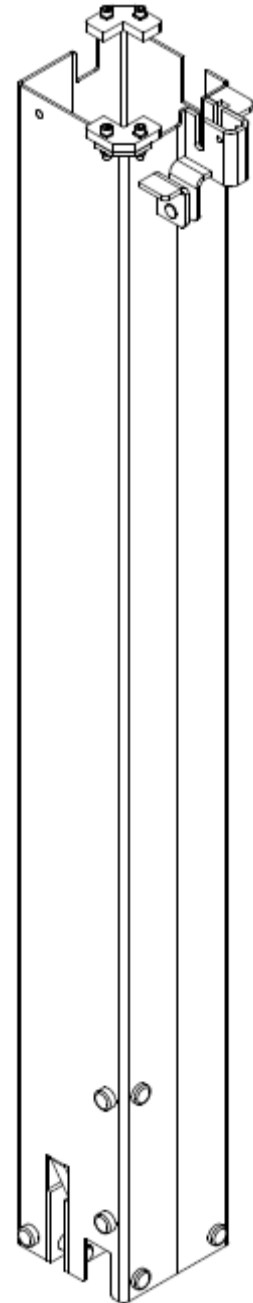
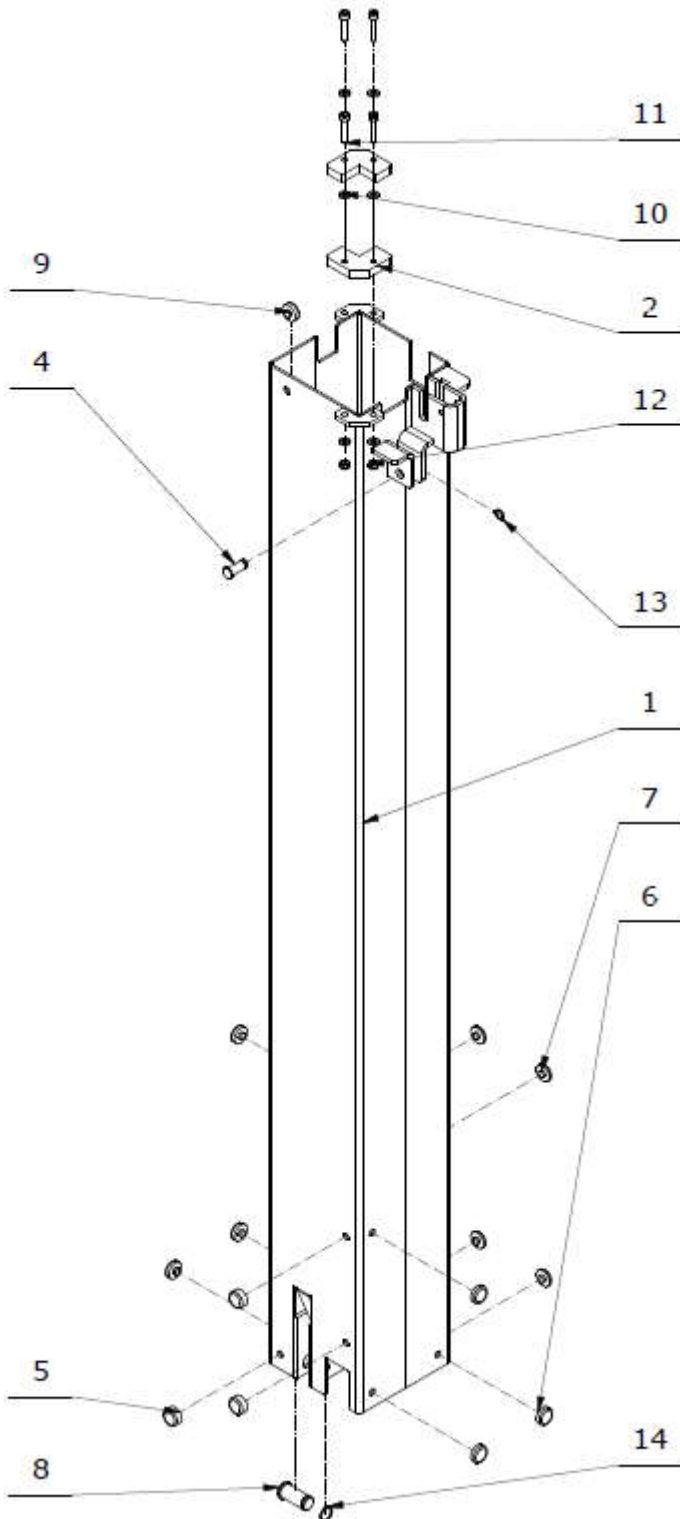


. Third Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028444	THIRD MAST (SQUARE PIPE) COMPACT L/T 8KVA HOT GALVANIZATION	1
3	8009178	NYLON BLOCK L-SHAPE 7MM LT 8KVA	2
4	8002671	PIN $\phi$ 10 L20.5	1
5	8009176	NYLON 9MM OF MASTIL LIGHT TOWER 8KVA	2
6	8009174	NYLON 4MM OF MASTIL LIGHT TOWER 8KVA	2
7	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	4
9	8001869	PIN $\phi$ 16 L38.2	1
10	8000100	WASHER M.6 NARROW FLANGE GB/T 97.1	8
11	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	4
12	8000128	NUT M.6 SPRING LOCK GB/T 889-8	4
13	8002185	STOP WASHER GB/T 894.1-1986 10	1
14	8002184	STOP WASHER GB/T 894.1-1986 16	1



. Fourth Kit.



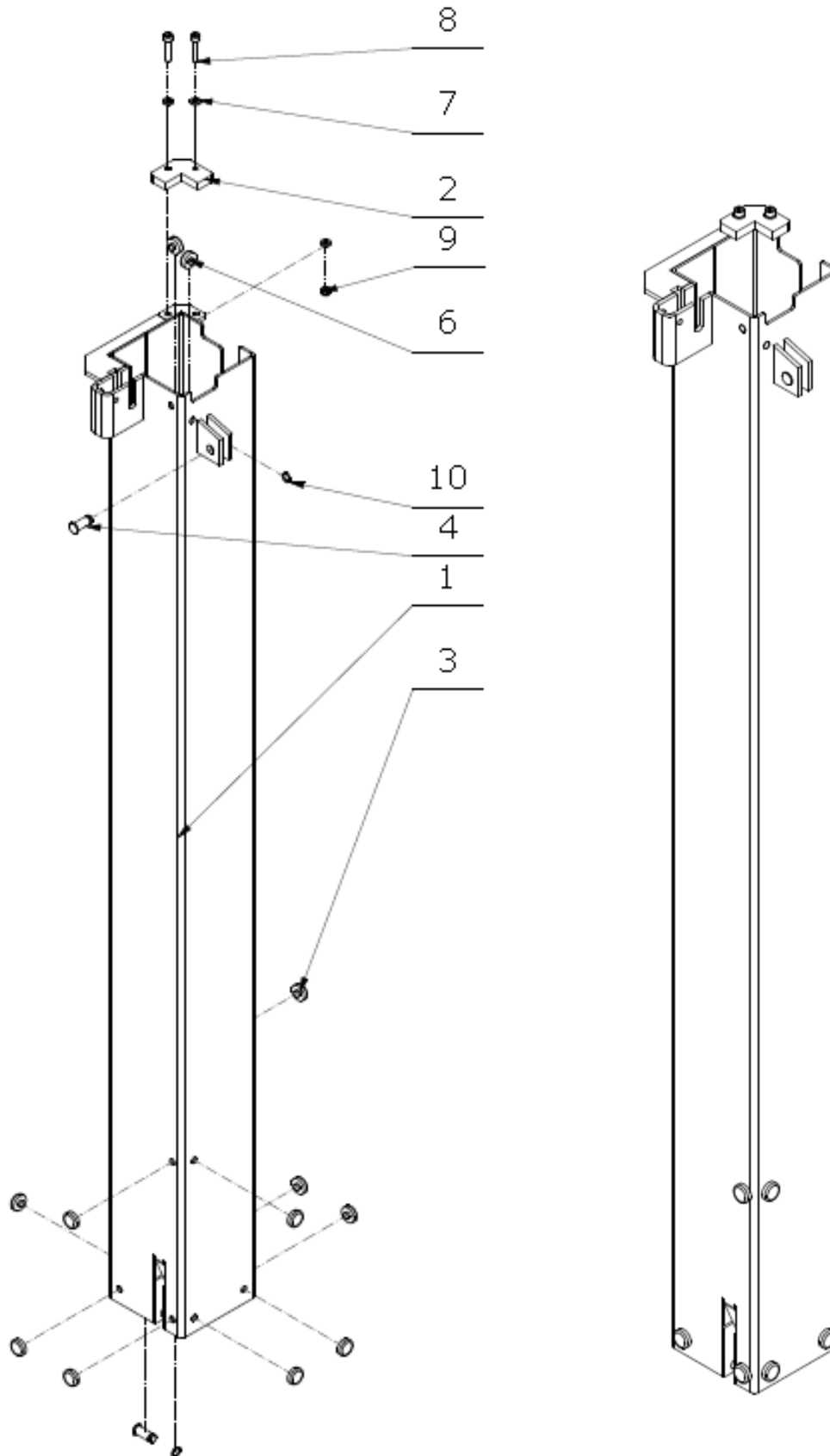


. Fourth Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028445	FOURTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8030121	NYLON PART L SHAPE MAST (SQUARE PIPE) LT/T	2
4	8002671	PIN $\phi$ 10 L20.5	1
5	8009176	NYLON 9MM OF MASTIL LIGHT TOWER 8KVA	3
6	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	6
7	8009174	NYLON 4MM OF MASTIL LIGHT TOWER 8KVA	4
8	8001869	PIN $\phi$ 16 L38.2	1
10	8000100	WASHER M. 6 NARROW FLANGE GB/T 97.1	8
11	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	4
12	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	4
13	8002185	STOP WASHER GB/T 894.1-1986 10	1
14	8002184	STOP WASHER GB/T 894.1-1986 16	1



. Fifth Kit.



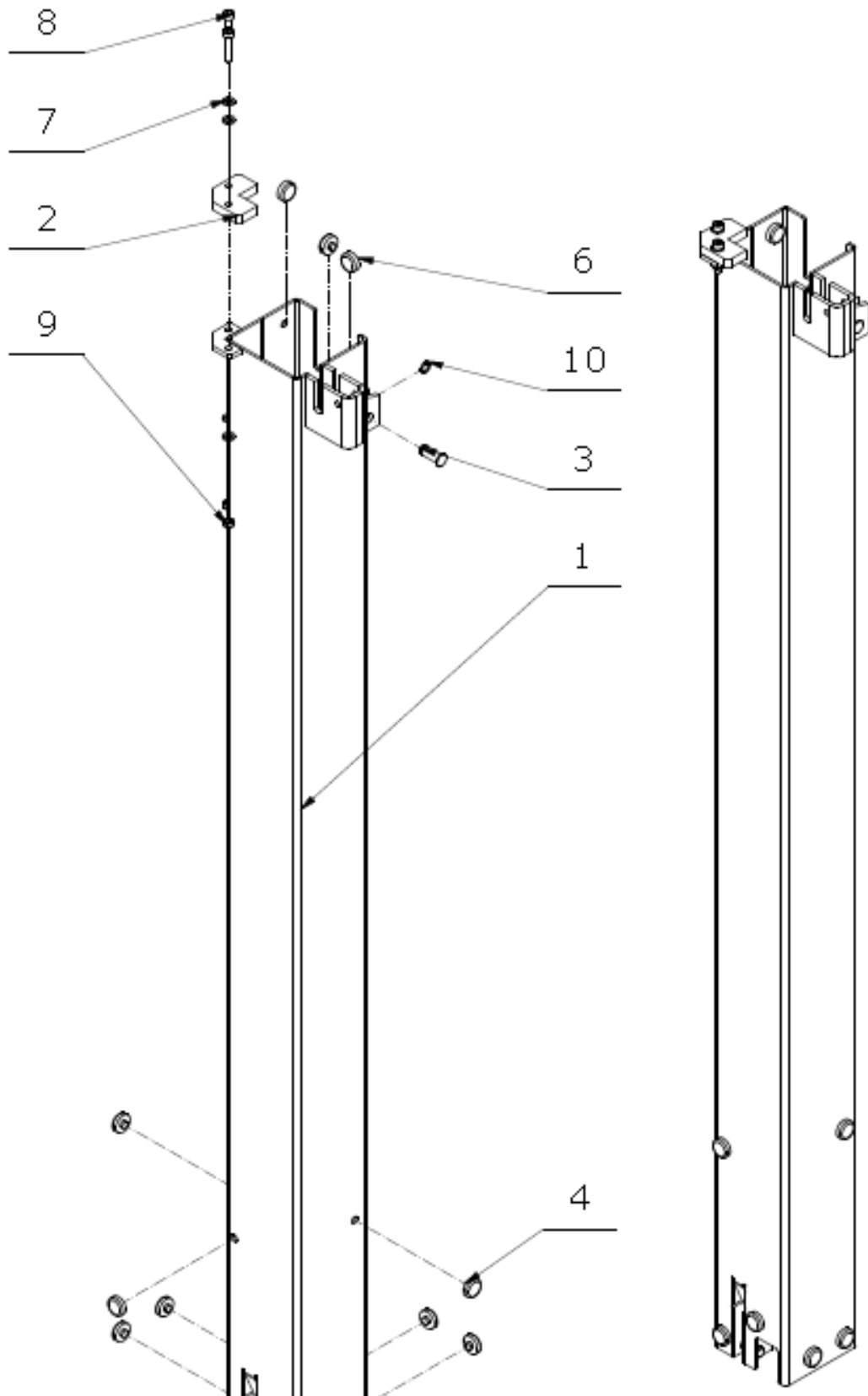


. Fifth Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028446	FIFTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT/T	1
3	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	10
4	8002671	PIN $\phi$ 10 L20.5	1
6	8009175	NYLON 7MM OF MASTIL LIGHT TOWER 8KVA	2
7	8000100	WASHER M. 6 NARROW FLANGE GB/T 97.1	4
8	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	2
9	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	2
10	8002185	STOP WASHER GB/T 894.1-1986 10	1



. Sixth Kit.



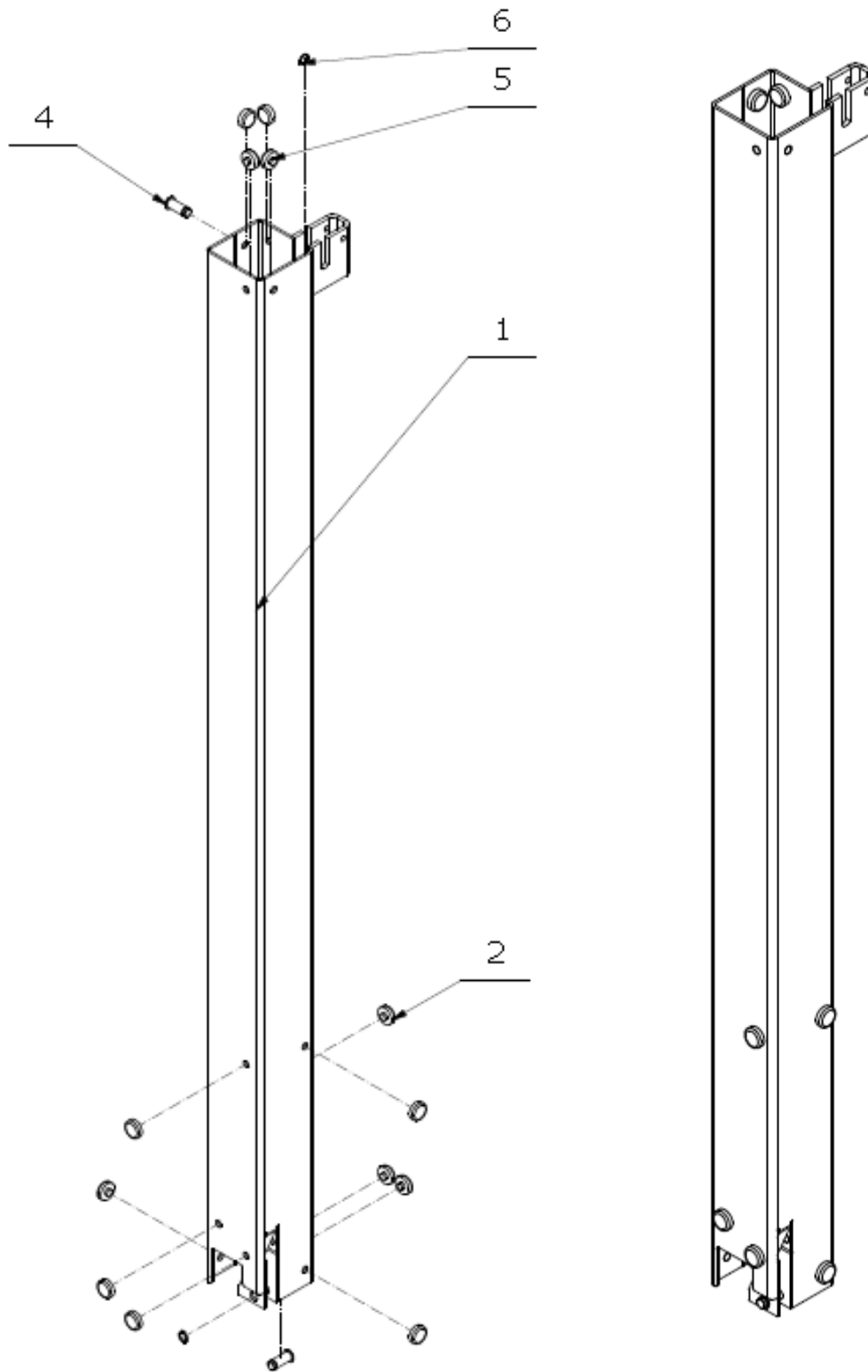


. Sixth Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028447	SIXTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT/T	1
3	8002671	PIN $\phi$ 10 L20.5	2
4	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	11
6	8009175	NYLON 7MM OF MASTIL LIGHT TOWER 8KVA	3
7	8000100	WASHER M. 6 NARROW FLANGE GB/T 97.1	4
8	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	2
9	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	2
10	8002185	STOP WASHER GB/T 894.1-1986 10	2



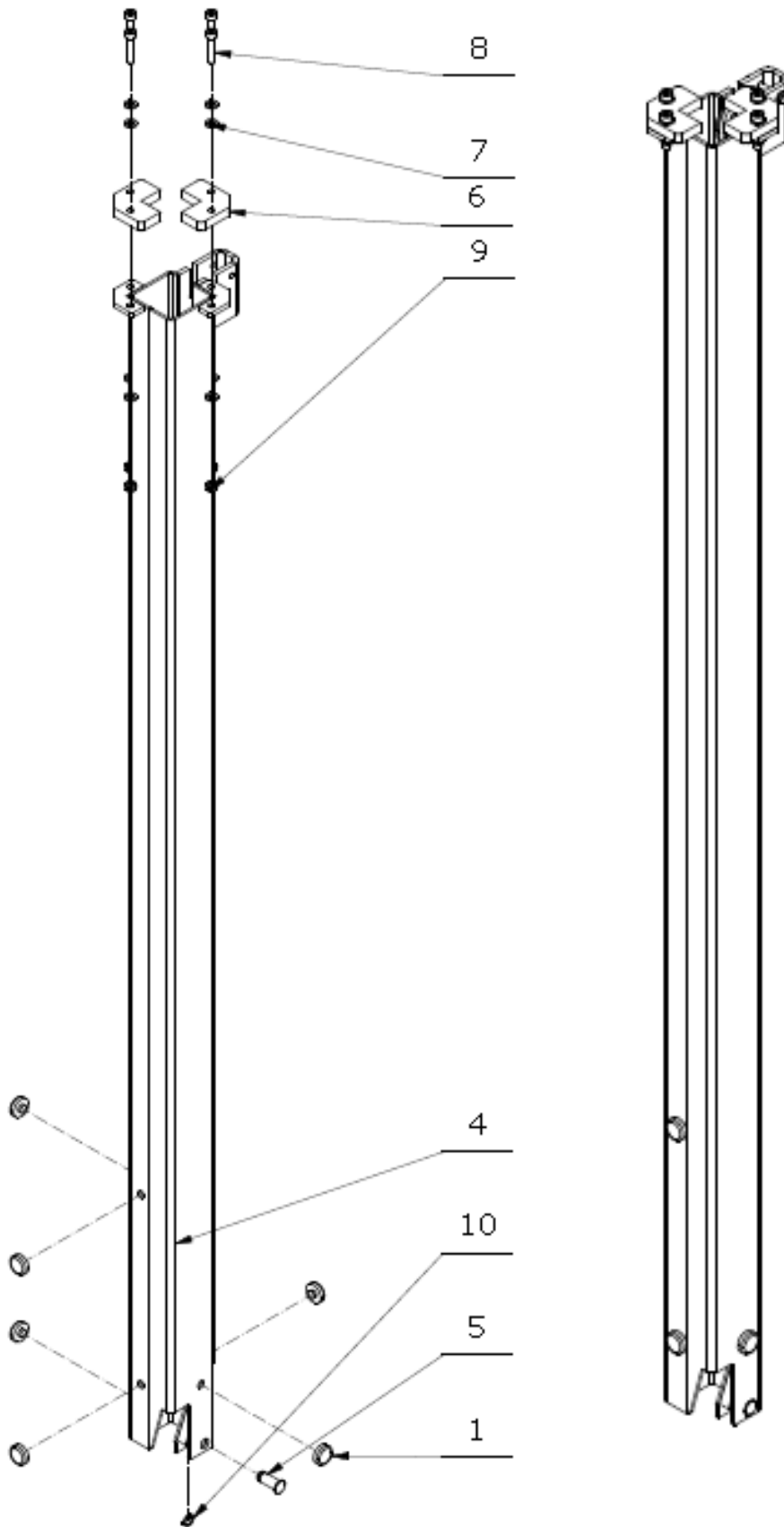
. Sevent Kit.



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028448	SEVENTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	9
4	8002671	PIN $\phi$ 10 L20.5	2
5	8009175	NYLON 7MM OF MASTIL LIGHT TOWER 8KVA	4
6	8002185	STOP WASHER GB/T 894.1-1986 10	2



. Eighth Kit.



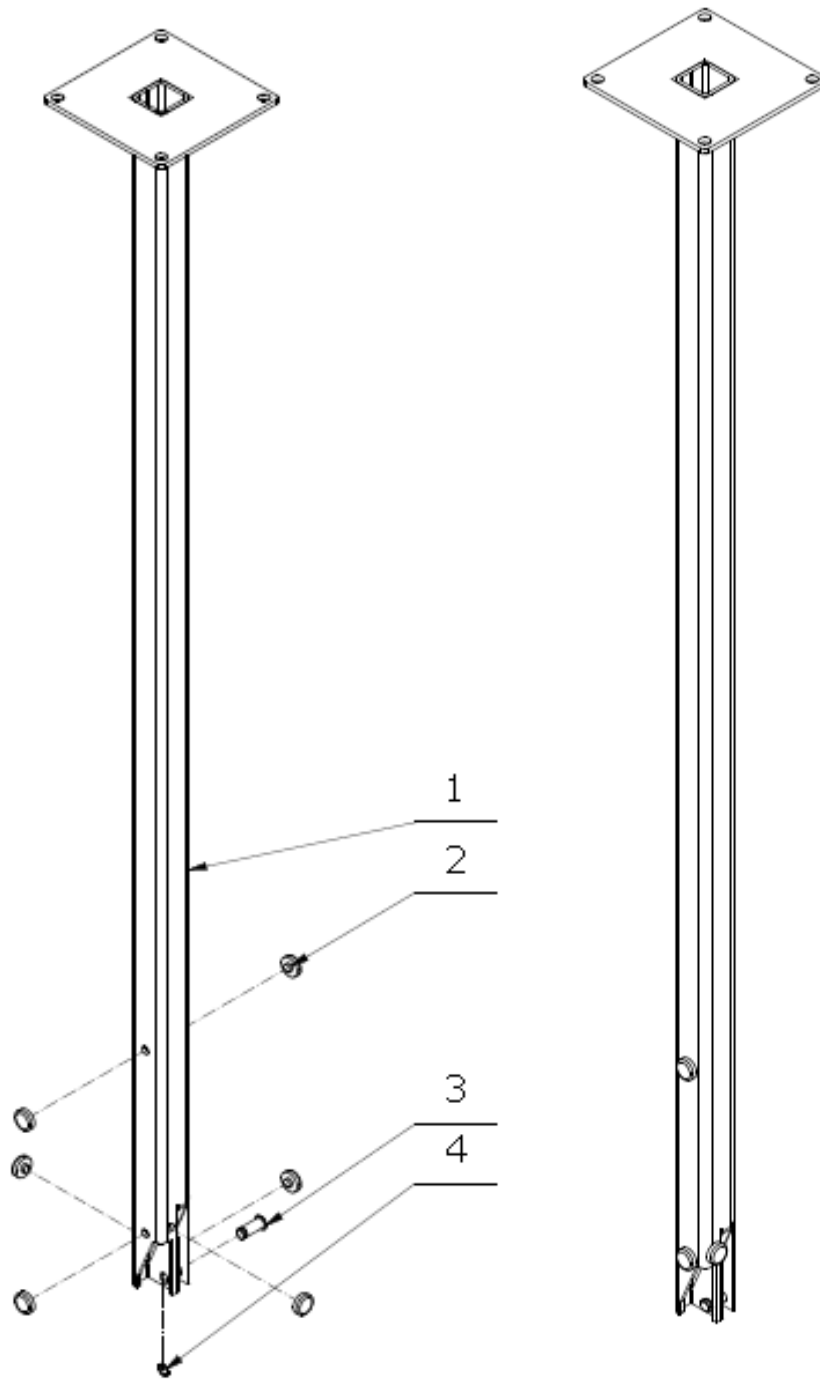


. Eighth Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	6
4	8028449	EIGHTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
5	8002671	PIN $\phi$ 10 L20.5	1
6	8030121	NYLON PART LONGER L SHAPE MAST (SQUARE PIPE) LT/T	2
7	8000100	WASHER M. 6 NARROW FLANGE GB/T 97.1	8
8	8002203	SCREW M6X30 ALLEN HEAD CAP GB/T70	4
9	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	4
10	8002185	STOP WASHER GB/T 894.1-1986 10	1



. Ninth Kit.

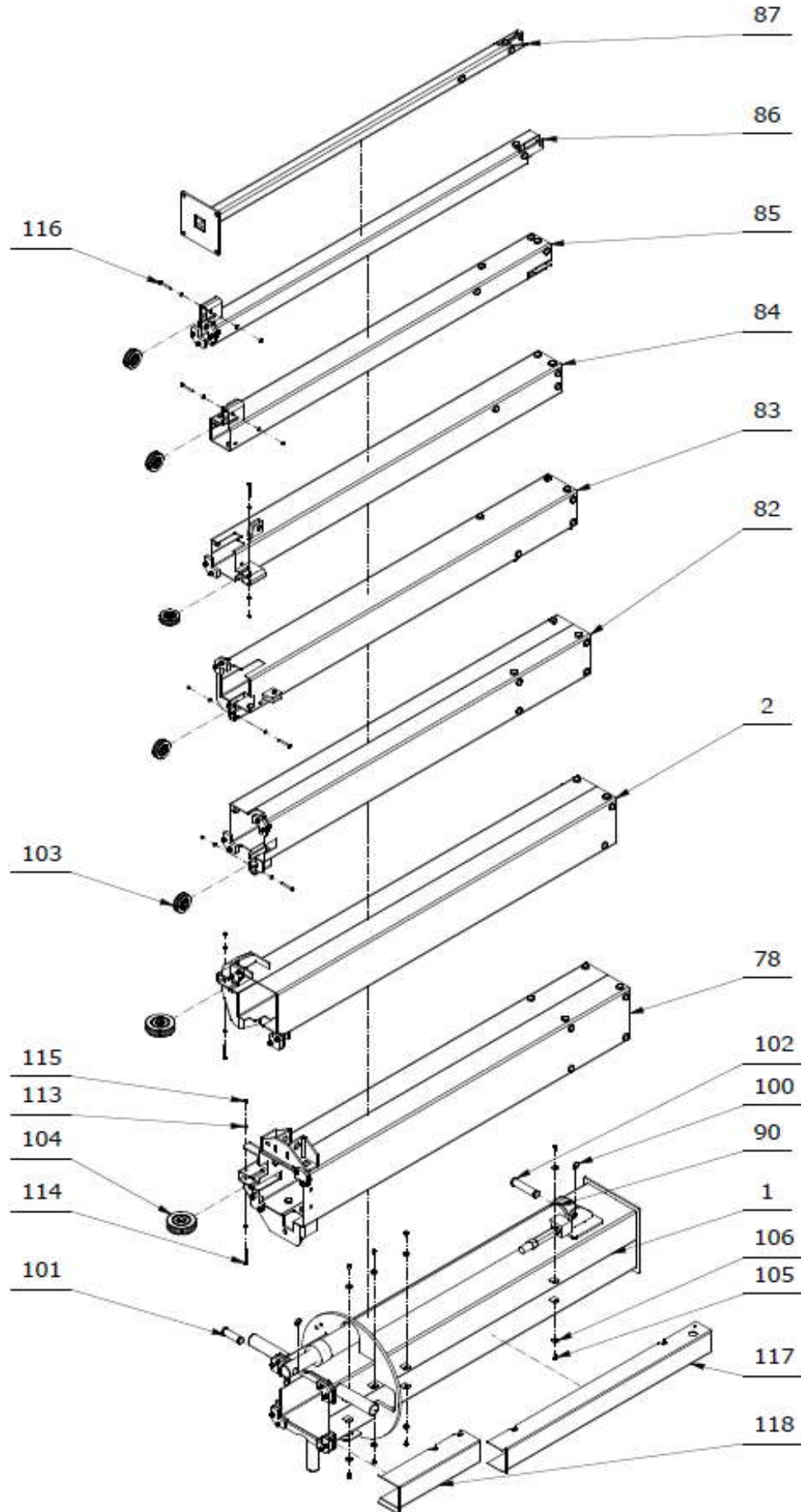


Ninth Kit (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028450	NINTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA HOT GALVANIZATION	1
2	8002699	NYLON 6MM OF MASTIL LIGHT TOWER 8KVA	6
3	8002671	PIN $\phi$ 10 L20.5	1
4	8002185	STOP WASHER GB/T 894.1-1986 10	1

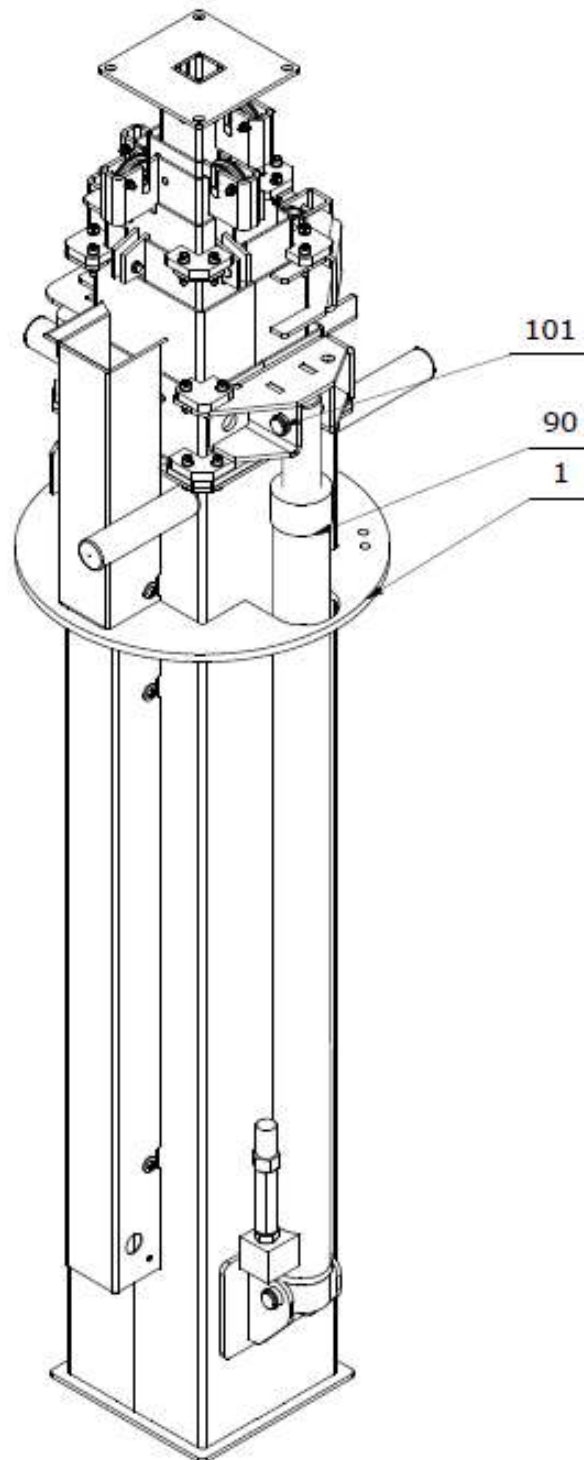


. Mastil Assembly Details.





## Assembly Details.



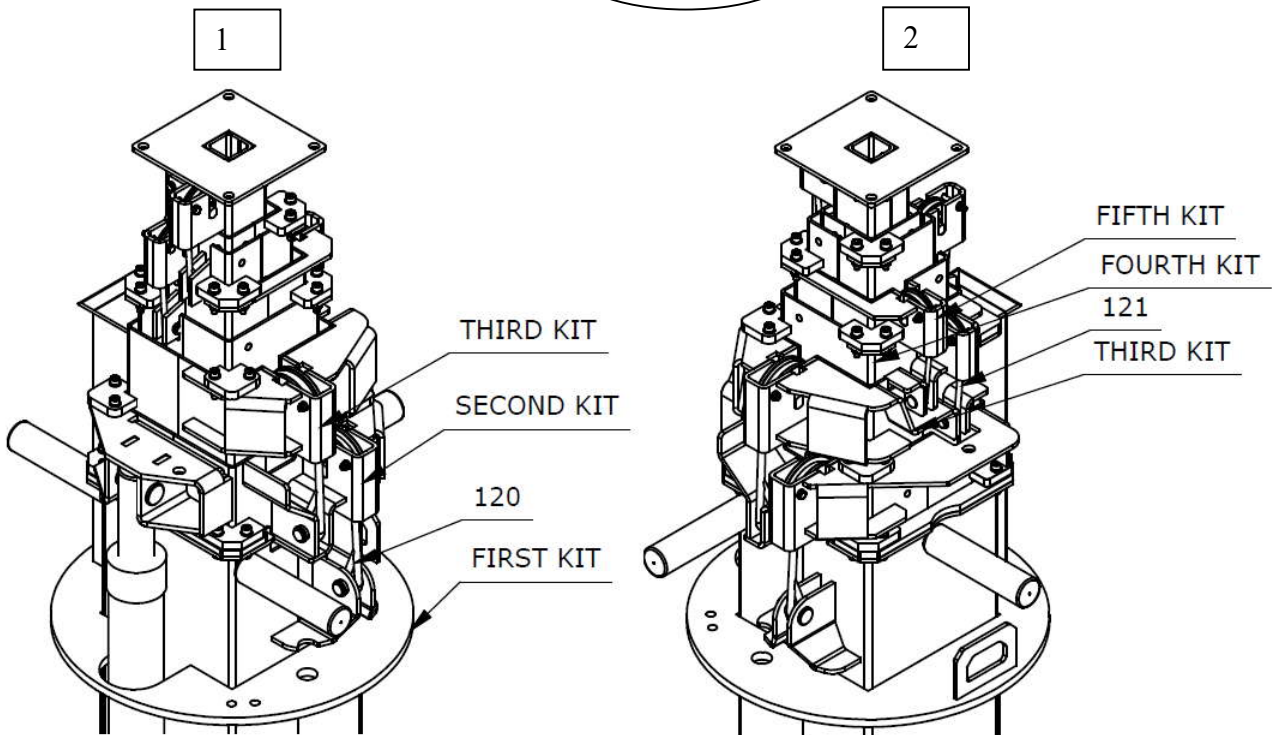
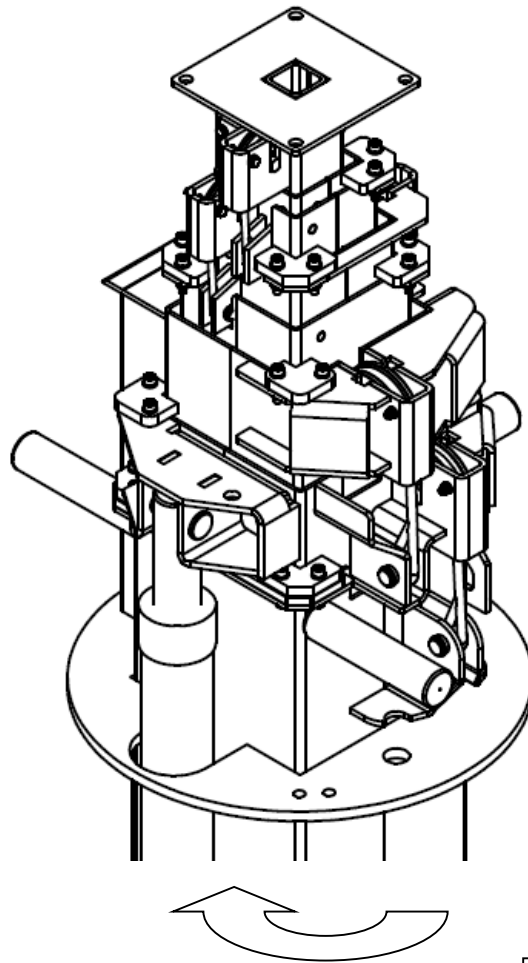


## . MASTIL ASSEMBLY (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8028451	FIRST MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
2	8028453	THIRD MAST (SQUARE PIPE) COMPACT L/T 8KVA PRE-ASS	1
78	8028452	SECOND MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
82	8028454	FOURTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
83	8028455	FIFTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
84	8028456	SIXTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
85	8028457	SEVENTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
86	8028458	EIGHTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
87	8028459	NINTH MAST (SQUARE PIPE) COMPACT L/T 8 KVA PRE-ASS	1
90	8050900	CYLINDER 915MM FOR L/T 180BAR 1700MM WITH PIPE	1
100	8002183	STOP WASHER GB/T 894.1-1986 20	2
101	8001868	PIN $\phi$ 20 L68	1
102	8001867	PIN $\phi$ 20 L39	1
103	8001872	DOWN WHEEL OF MASTIL L-T8KVA	5
104	8001871	UP WHEEL OF MAST L/T 8KVA	2
105	8003306	SCREW M6X10 INOX ROUND HEAD ALLEN STAINLESS GB/T 70.2-2000	8
106	8000101	WASHER M. 6 WIDE FLANGE GB/T96.1	8
113	8000098	Washer M. 5 NARROW FLANGE GB/T97.1	14
114	8002248	SCREW M5X45 HEXAGONAL GB/T5782-8.8	2
115	8000126	NUT M. 5 SPRING LOCK GB/T889-8	7
116	8000400	SCREW M5*0.8*40 HEXAGONAL GB/T 5783-8.8	5
117	8030132	MAST DOWN CABLE PROTECT PLATE (SQUARE PIPE) RAL9005	1
118	8028479	MAST UP CABLE PROTECT PLATE (SQUARE PIPE) RAL9005	1

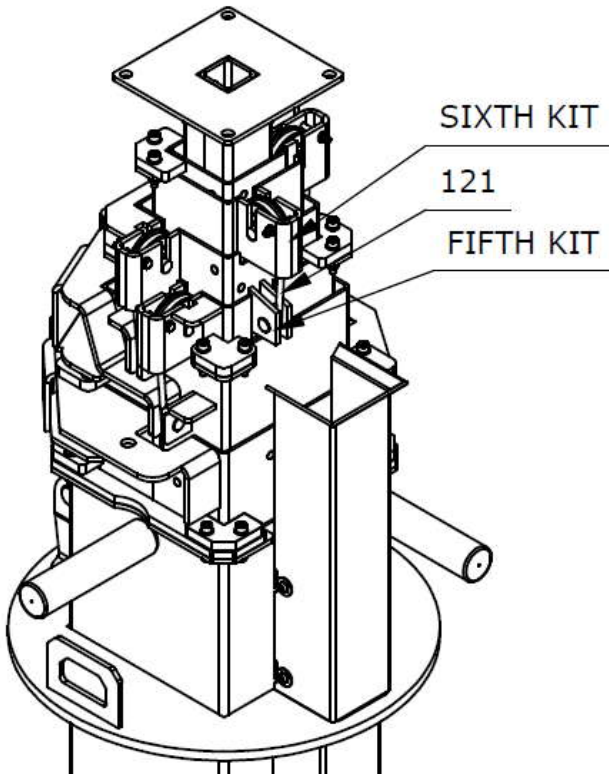


. Mastil Assembly - (Steel Rope).(To see it clearly, hide 8025205)

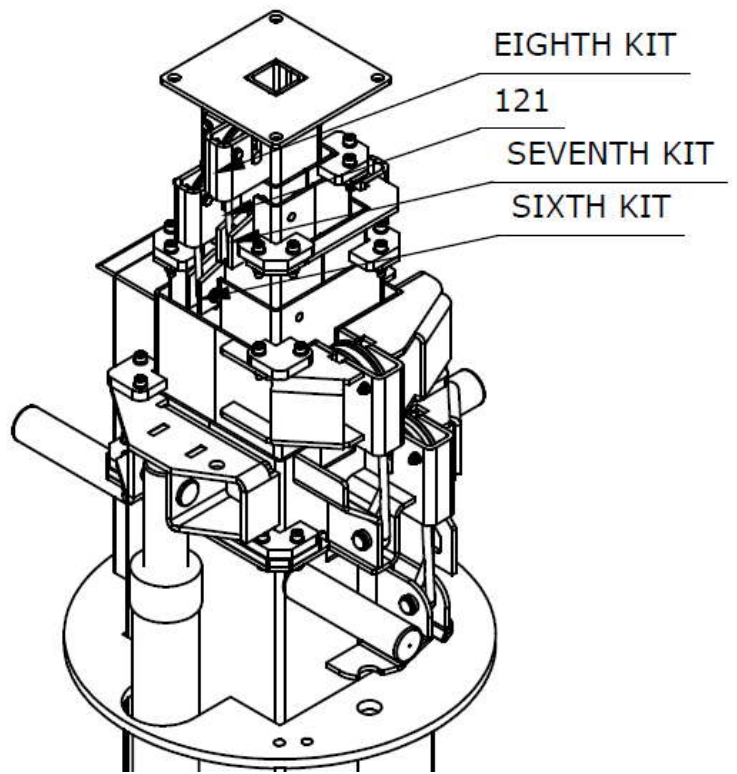




3

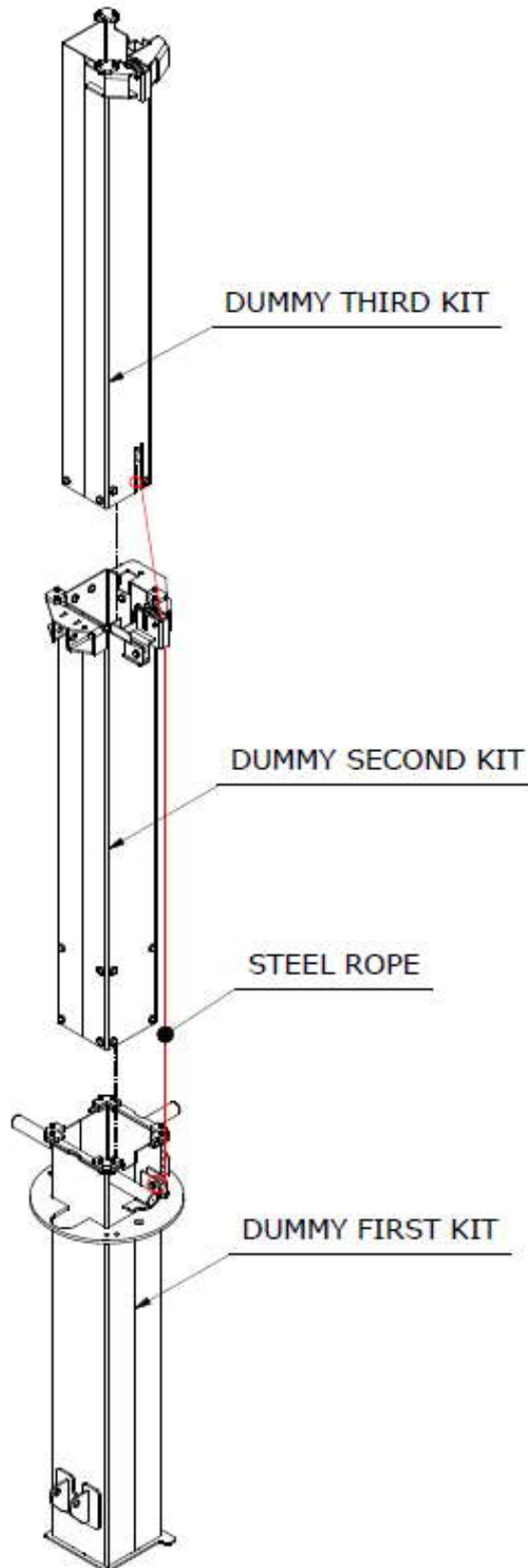


4





### Steel Rope Assembly Detail.

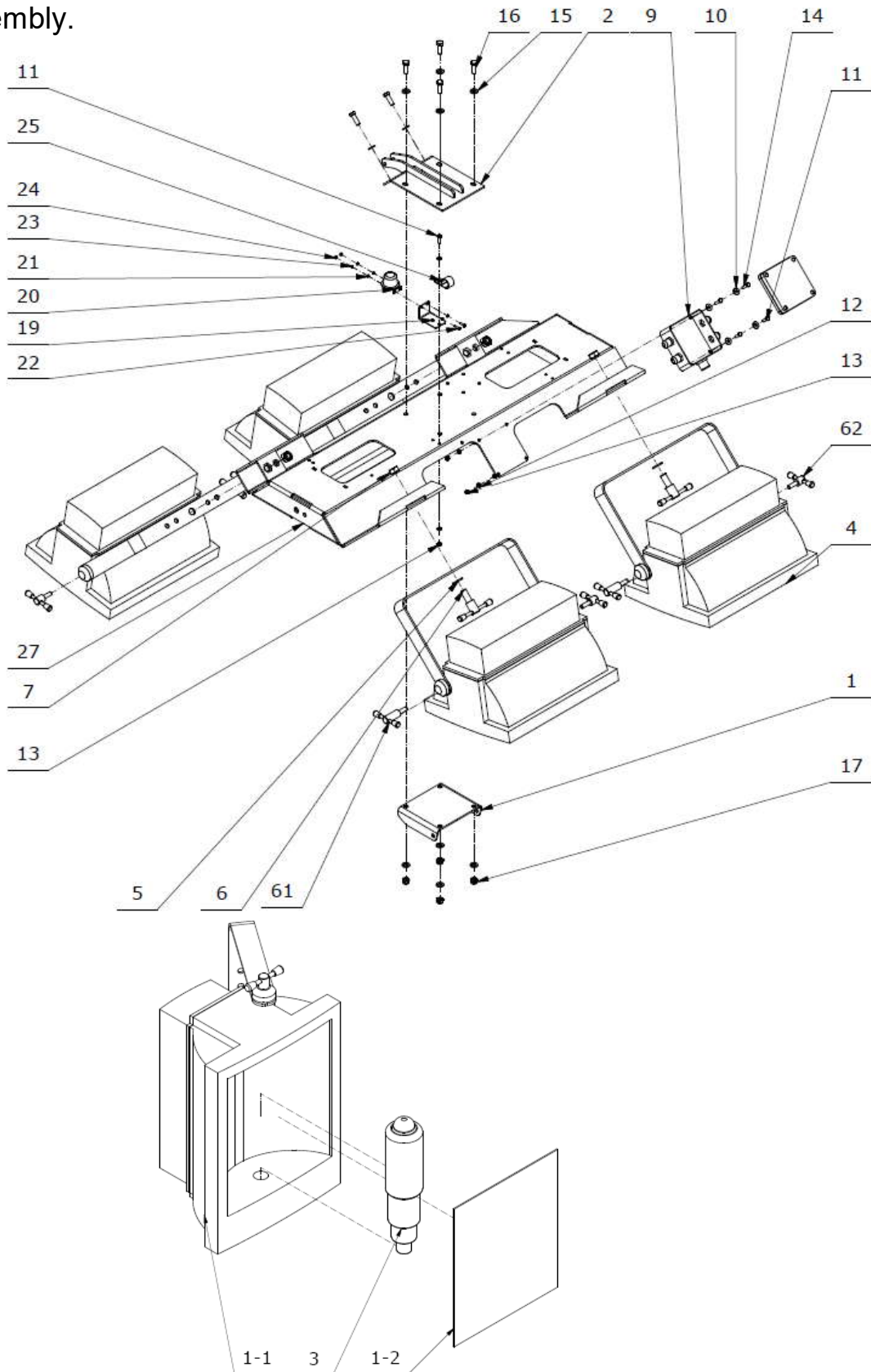


### Mastil Assembly (BOM).

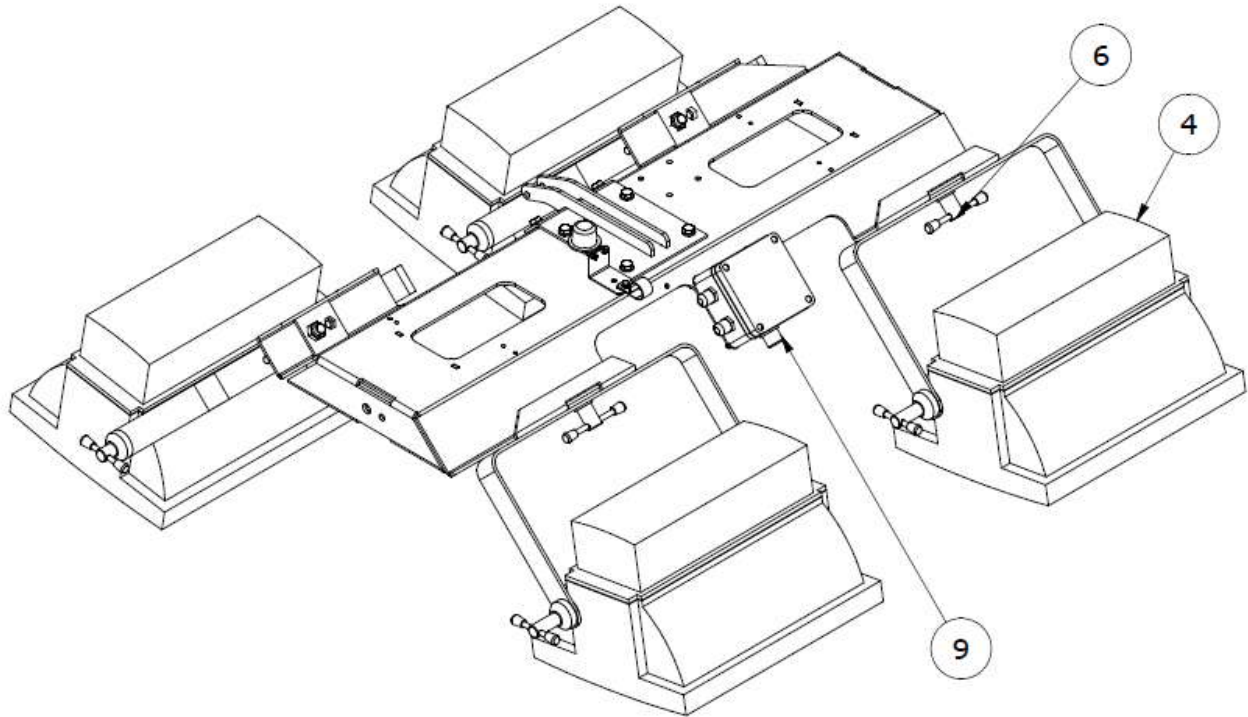
ITEM NO.	PART NO.	DESCRIPTION	QTY
120	8050909	STEEL WIRE CABLE D=8MM L=1485MM	2
121	8050908	STEEL WIRE CABLE D=6MM L=1420MM	5



. Lamp Assembly.



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	8051554	LAMP BODY MH 1000W T 50/60HZ PR BK E40 WH	1
3	8065836	LAMP BULB MH 1000W T 50/60HZ PR BK E40 WH	1



### Lamp Assembly (BOM)

ITEM NO.	PART NO.	DESCRIPTION	QTY
4	8042385	LAMP ACOMPACT PR 50/60HZ PRE-ASS	4
5	8006186	WASHER M16 NARROW FLANGE STAINLESS	4
6	8003301	SCREW T-SHAPE M16*35 L/T	4
7	8008540	NUT M16X2 GB/T 6172.1-2000 8MM	4
9	8025847	LIGHT DISTRIBUTION BOX SMALL PRE-ASS M7	1
10	8000101	WASHER M.6 WIDE FLANGE GB/T96.1	4
11	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	2
12	8006182	WASHER M6 NARROW FLANGE STAINLESS	4
13	8000128	NUT M.6 SPRING LOCK GB/T 889-8	4
14	8000398	SCREW M6 x 25 HEXAGONAL GB 5783-8.8	2
27	8026891	APOLO COMPACT SUPPORT PLATE FOR 6 LAMPS RAL9005	1
61	8003302	SCREW T-SHAPE M10*25 L/T	4
62	8015055	SCREW T-SHAPE M10*31 L=80MM L/T	4

#### Option: Rotate Lamp (Other detail to see [RL](#))

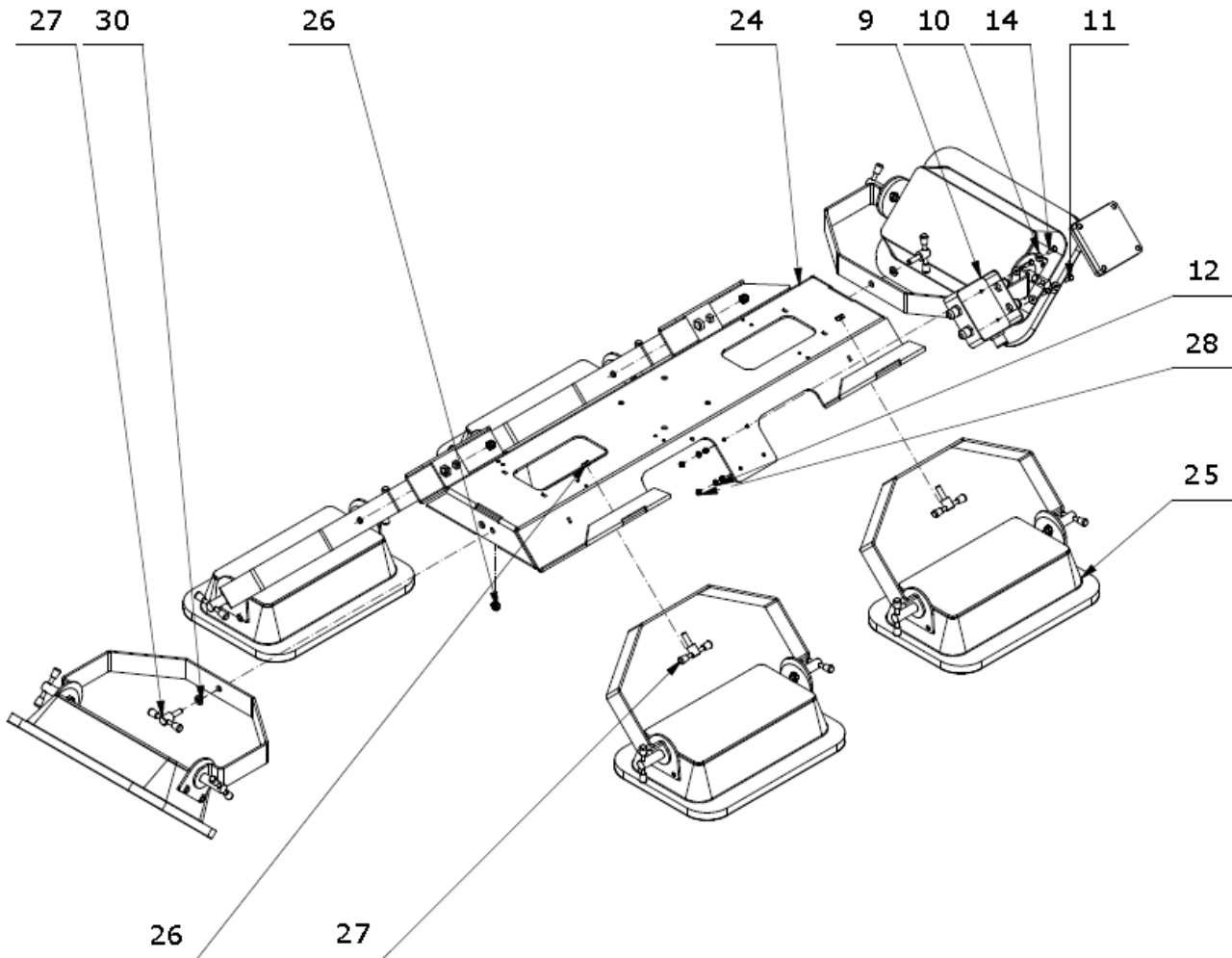
1	8011198	ELECTRIC PUMP FIX PLATE UP L/T RAL9005	1
2	8011207	ELECTRIC PUMP PLATE TOP L/T RAL9005	1
15	8006185	WASHER M.10 NARROW FLANGE STAINLESS	12
16	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	6
17	8000122	NUT M.10 SPRING LOCK GB/T 889-8	6

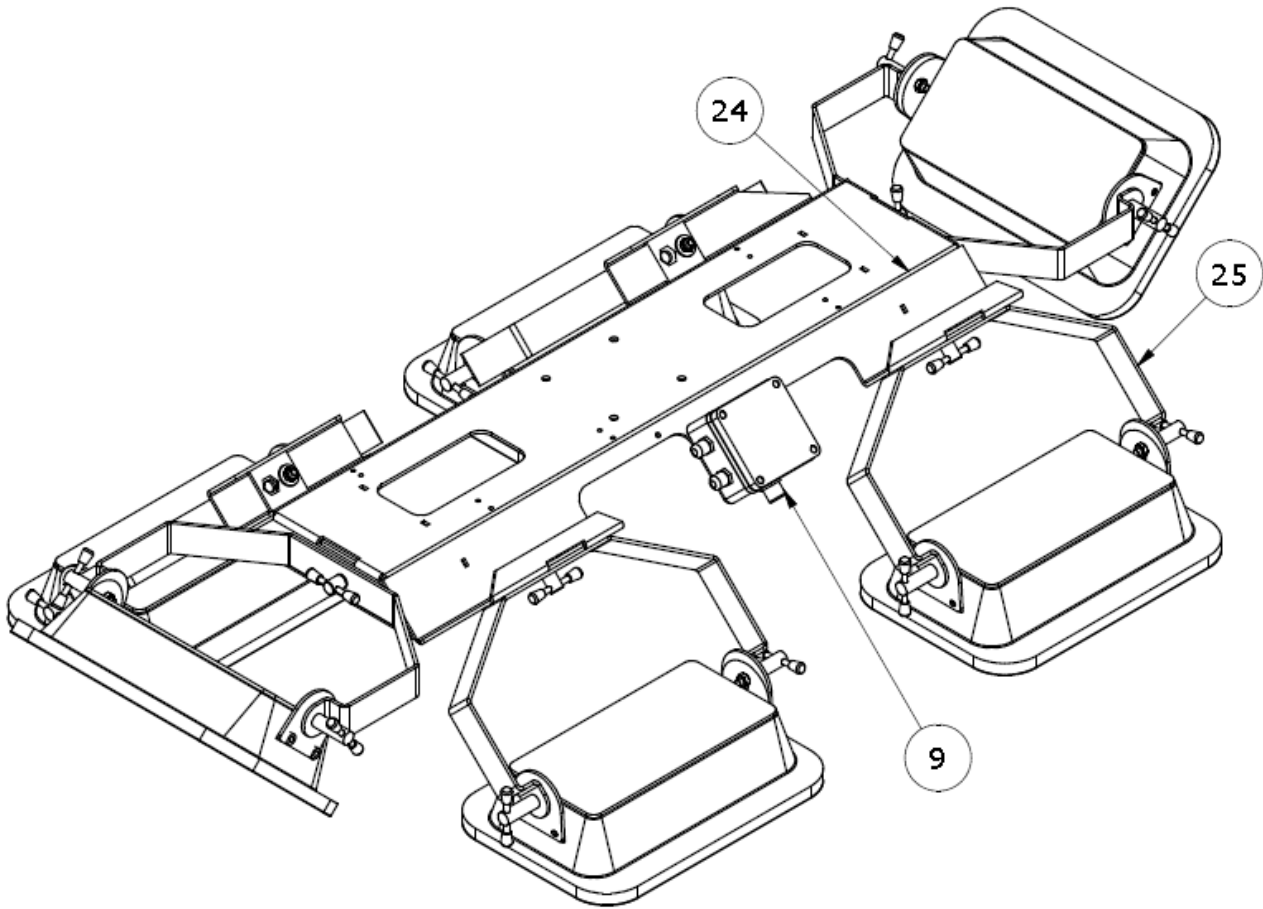
#### Option: Solar Sensor (Other detail to see [SS](#))

19	8032823	SUPPORT PLATE FOR MAST TOP SOLAR L/T 8KVA TAL9005	1
25	8007363	CLAMP WITH RUBBER FOR WIRE HARNESS(PVC-25)	1
11	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	1
12	8006182	WASHER M6 NARROW FLANGE STAINLESS	2
13	8000128	NUT M.6 SPRING LOCK GB/T 889-8	1
20	8010814	LAMP CONTROLLER WITH SOLAR SENSOR 12V DC	1
24	8000124	NUT M4 GB/T6170-8	2
23	8002484	WASHER M4 SPRING LOCK GB/T 93	2
21	8000097	WASHER M4 NARROW FLANGE GB/T97.1	4
22	8000114	SCREW M4x16 Hexagonal GB/T5783-8.8	2



. 6 Led Lamp Option.



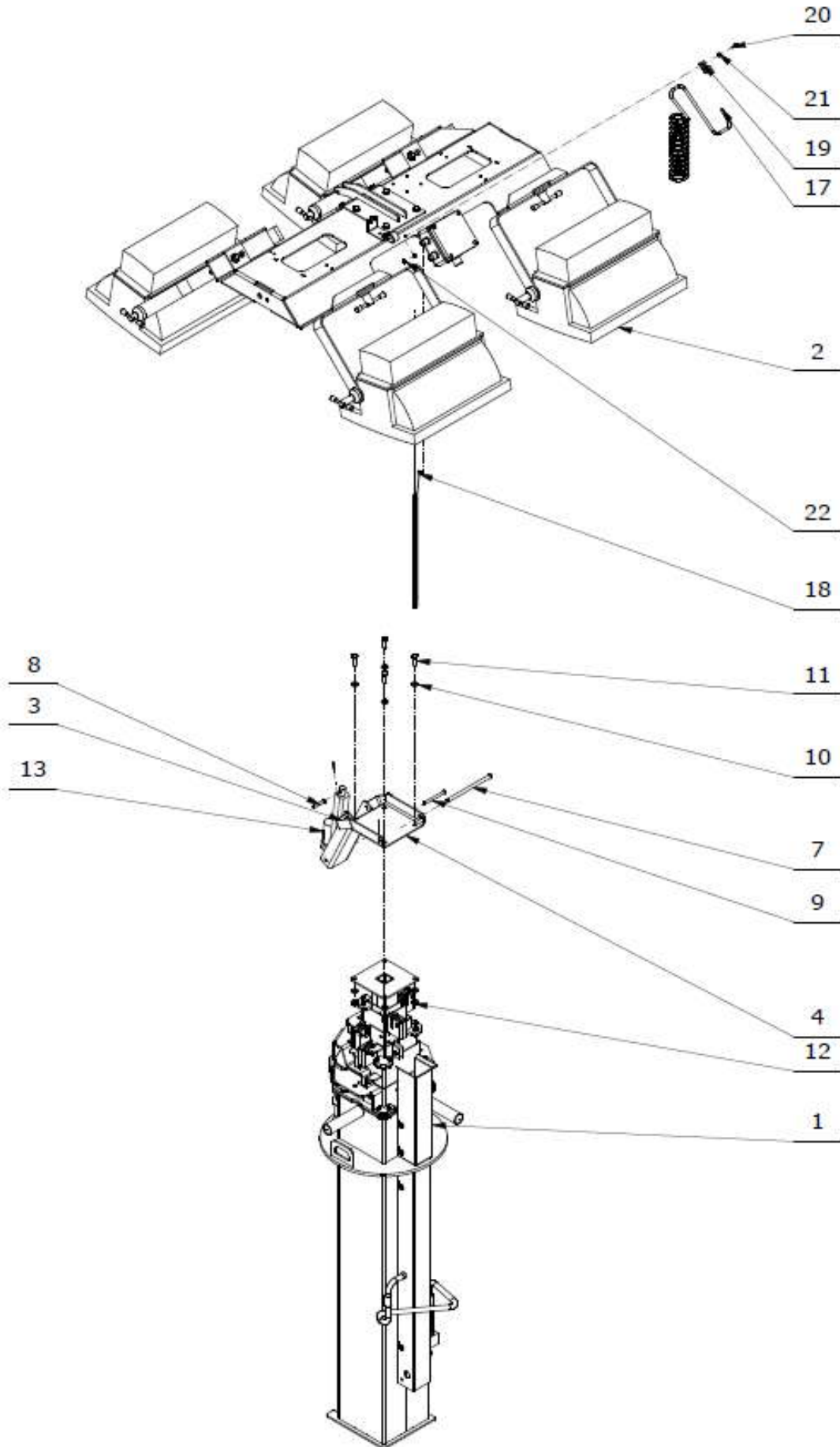


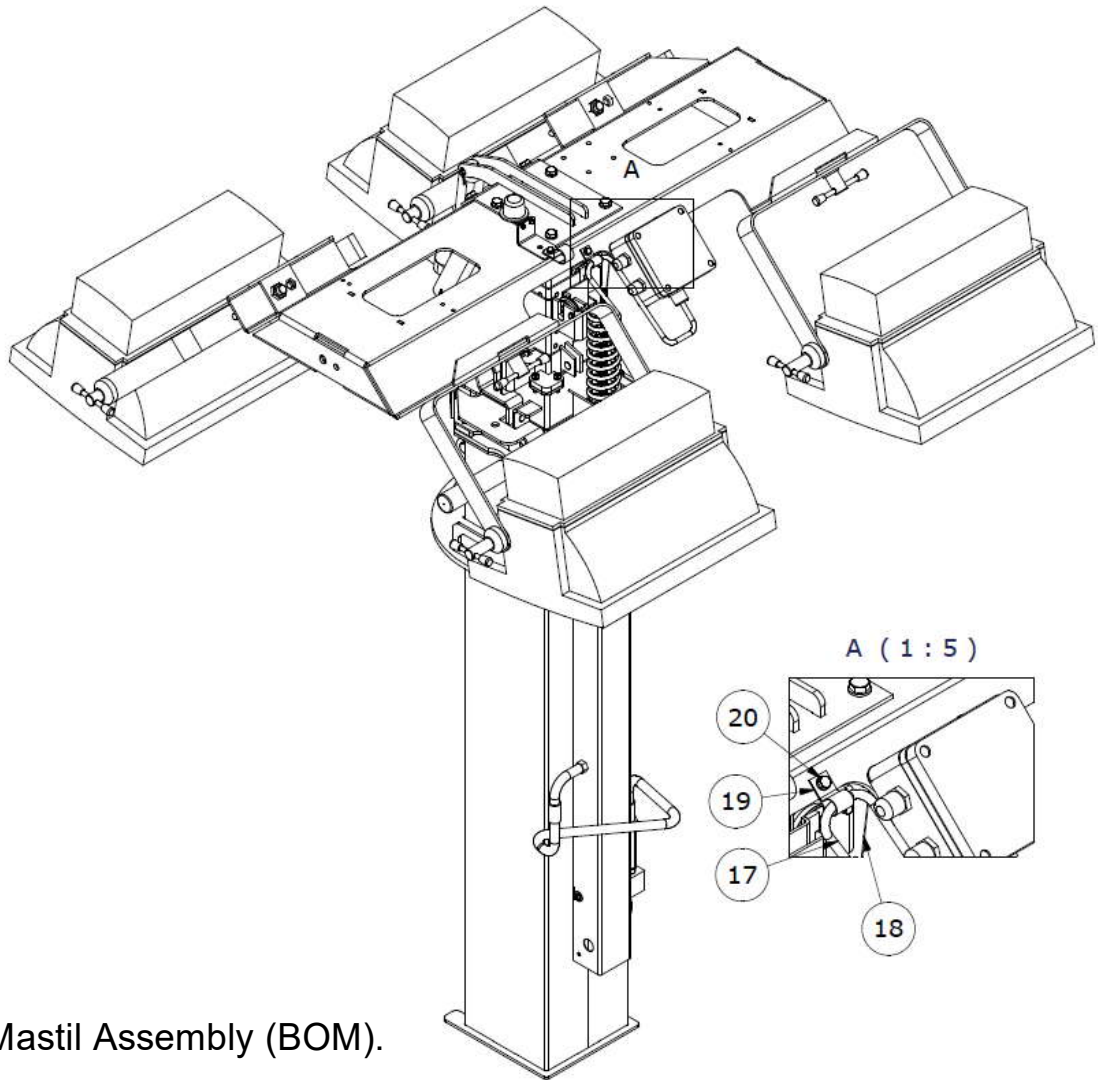
### . 6 Led Lamp Option (BOM)

ITEM NO.	PART NO.	DESCRIPTION	QTY
9	8061865	DUMMY LIGHT DISTRIBUTION BOX SMALL 6xLED	1
10	8000101	WASHER M. 6 WIDE FLANGE GB/T96.1	4
11	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	2
12	8006182	WASHER M6 NARROW FLANGE STAINLESS	4
14	8000398	SCREW M6 x 25 HEXAGONAL GB 5783-8.8	2
24	8026891	APOLO COMPACT SUPPORT PLATE FOR 6 LAMPS RAL9005	1
25	8061870	LAMP DEVICE KIT 240W LED PR TG204 COB	6
26	8000121	NUT M10 GB/T6170	6
27	8003302	SCREW T-SHAPE M10*25 L/T	6
28	8000128	NUT M. 6 SPRING LOCK GB/T 889-8	4
30	8000093	WASHER M10 WIDE FLANGE GB/T96.1	2



. Lamp + Mastil Assembly.





**. Lamp + Mastil Assembly (BOM).**

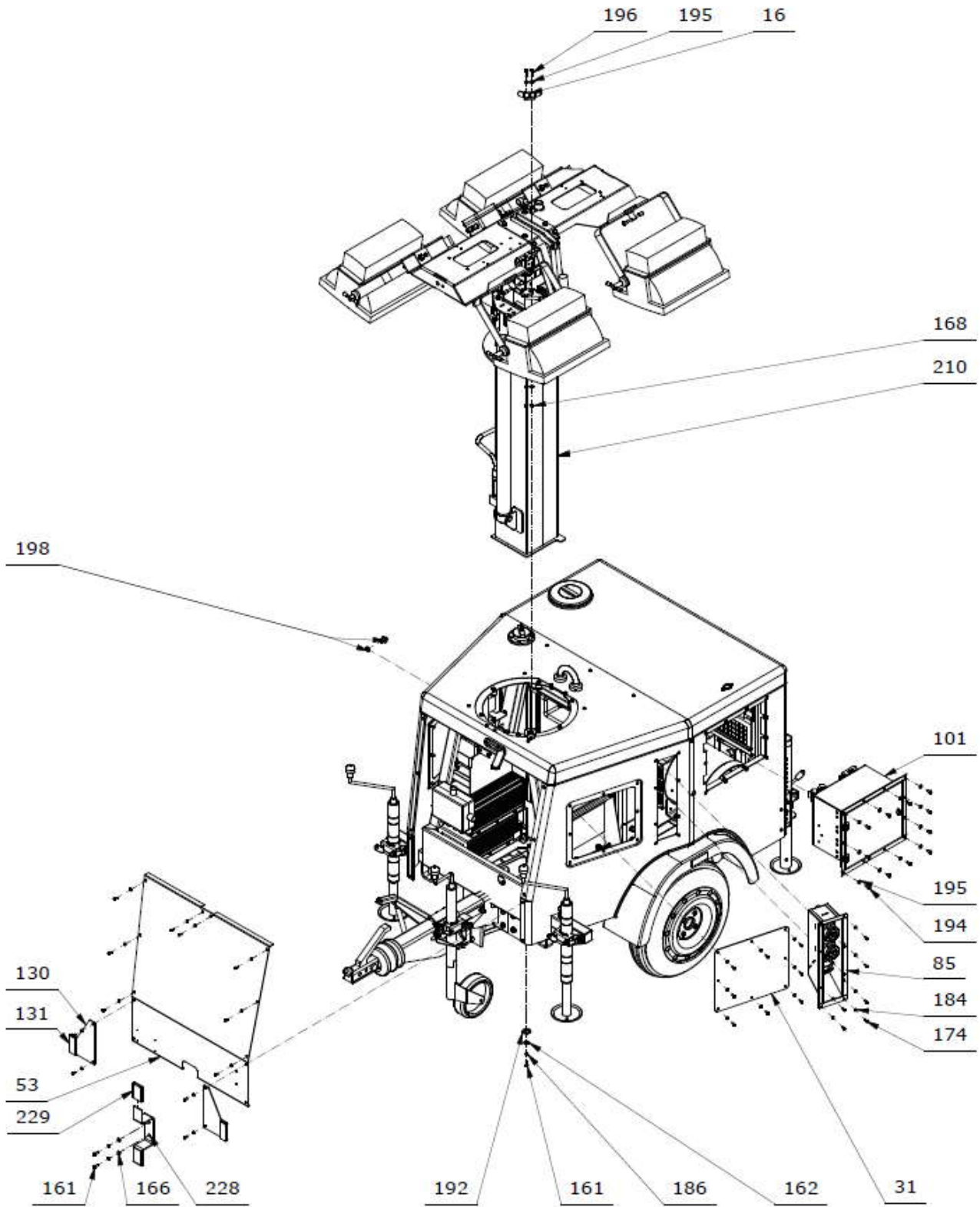
ITEM NO.	PART NO.	DESCRIPTION	QTY
1		MASTIL ASSEMBLY	1
2		LAMP ASSEMBLY	1
17	8004587	SPRING CABLE 12*1.5MM GREY 96 RUBBER 1350MM	1
18	8061570	SPRING FIXED CABLE 1530 L/T 8KVA	1
19	8001370	CLAMP WITH PVC COVER COT-12	1
20	8000120	SCREW M6 x 20 HEXAGONAL GB 5783-8.8	1
21	8006182	WASHER M6 NARROW FLANGE STAINLESS	2
22	8000128	NUT M.6 SPRING LOCK GB/T 889-8	1

**Options: TO Rotate Lamp (Other detail to see [RL](#))**

ITEM NO.	KIT NO.	DESCRIPTION	QTY
3	8011219	ELECTRIC PUMP D=150MM 1000N 12VDC	1
4	8011210	ELECTRIC PUMP HOLDER L/T RAL9005	1
7	8011218	PIN $\Phi$ 10X185	1
8	8011216	PIN $\Phi$ 8X44	1
9	8011217	PIN $\Phi$ 8X88	1
10	8006185	WASHER M. 10 NARROW FLANGE STAINLESS	8
11	8000300	SCREW M10*30 Hexagonal GB/T5783-8.8	4
12	8000122	NUT M. 10 SPRING LOCK GB/T 889-8	4
13	8006501	OPEN TAIL PIN D=2.5mm L=25mm	3

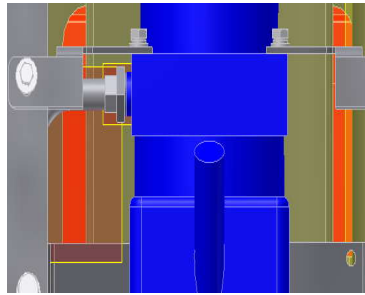


.Lighting Tower Detail.





## Mastil Oil Pipe Details.



## . Lighting Tower (BOM).

ITEM NO.	PART NO.	DESCRIPTION	QTY
16	8001802	UP SUPPORT MAST ZINC LIGHT TOWER 8KVA	1
31	8001613	BATTERY/PUMP DOOR L/T 8KVA RAL2002	1
53	8001643	FRONT COVER L/T 8KVA RAL2002	1
85	8067120	SOCKET AND WH LONG BOX V4 L/T 8KVA 230V HAS RAL2002 PRE-ASS	1
101		CONTROL PANEL M7 CAC16 V230/50HZ 10A	1
130	8006816	SUPPORT FOR FRONT REFLECTOR	2
131	8007718	REFLECTOR WHITE FRONT FOR L/T	2
161	8000112	SCREW M. 8x20 Hexagonal GB/T5783-8. 8	3
162	8000104	WASHER M8 WIDE FLANGE GB/T96. 1	1
166	8000103	WASHER M. 8 NARROW FLANGE GB/T97. 1	2
168	8000129	NUT M. 8 SPRING LOCK GB/T 889. 1-8	2
174	8000110	SCREW M6x16 INOX ROUND head ALLEN STAINLESS	30
184	8029508	NYLON WASHER M6	30
186	8000105	Washer M. 8 Spring LOCK GB/T93	3
192	8003303	WASHER $\Phi$ 50 FIX MAST L/T RAL9005	1
194	8000268	Forged Hexagon Socket Button Head Cap Screw - Metric	11
195	8006184	WASHER M. 8 NARROW FLANGE STAINLESS	15
196	8000596	SCREW M8x30 Hexagonal GB/T5783-8. 8	2
198	8002296	OIL PUMP TIE-IN G1/4-G3/8	1
210		DUMMY MASTIL AND LAMP	1
228	8029482	FIXTURE OF REAR LIGHT CABLE RAL9005	1
229	8011959	RUBBER COVER 80x55x12x3mm APL4000	2