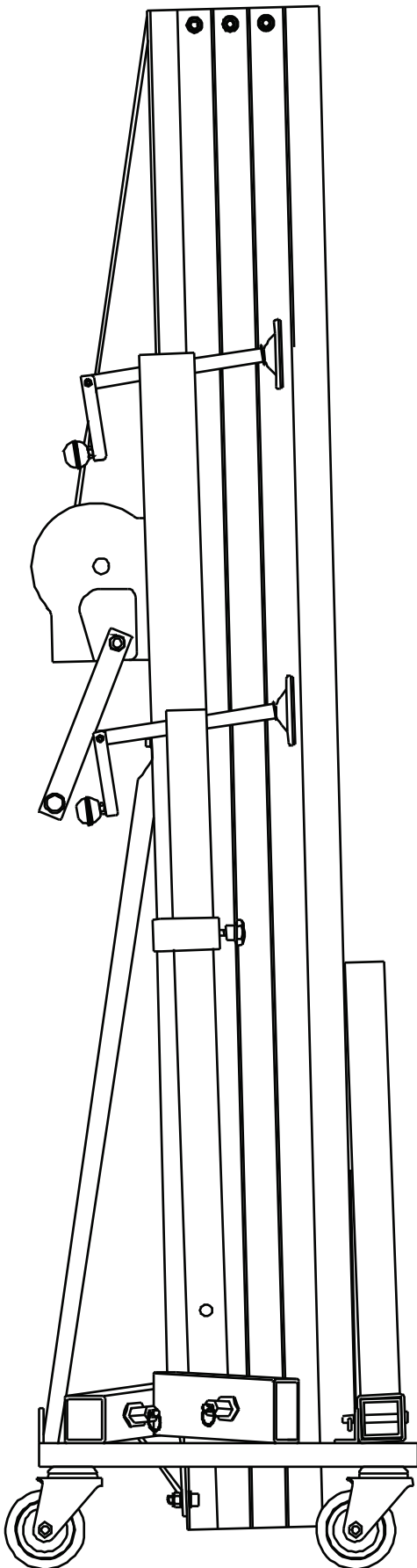




TL - 056

GB TOWERLIFT
USA INSTRUCTIONS
Quick Operation Guide



Design Quintessence Pty Ltd

Unit 25 7-9 Percy Street Auburn NSW Australia

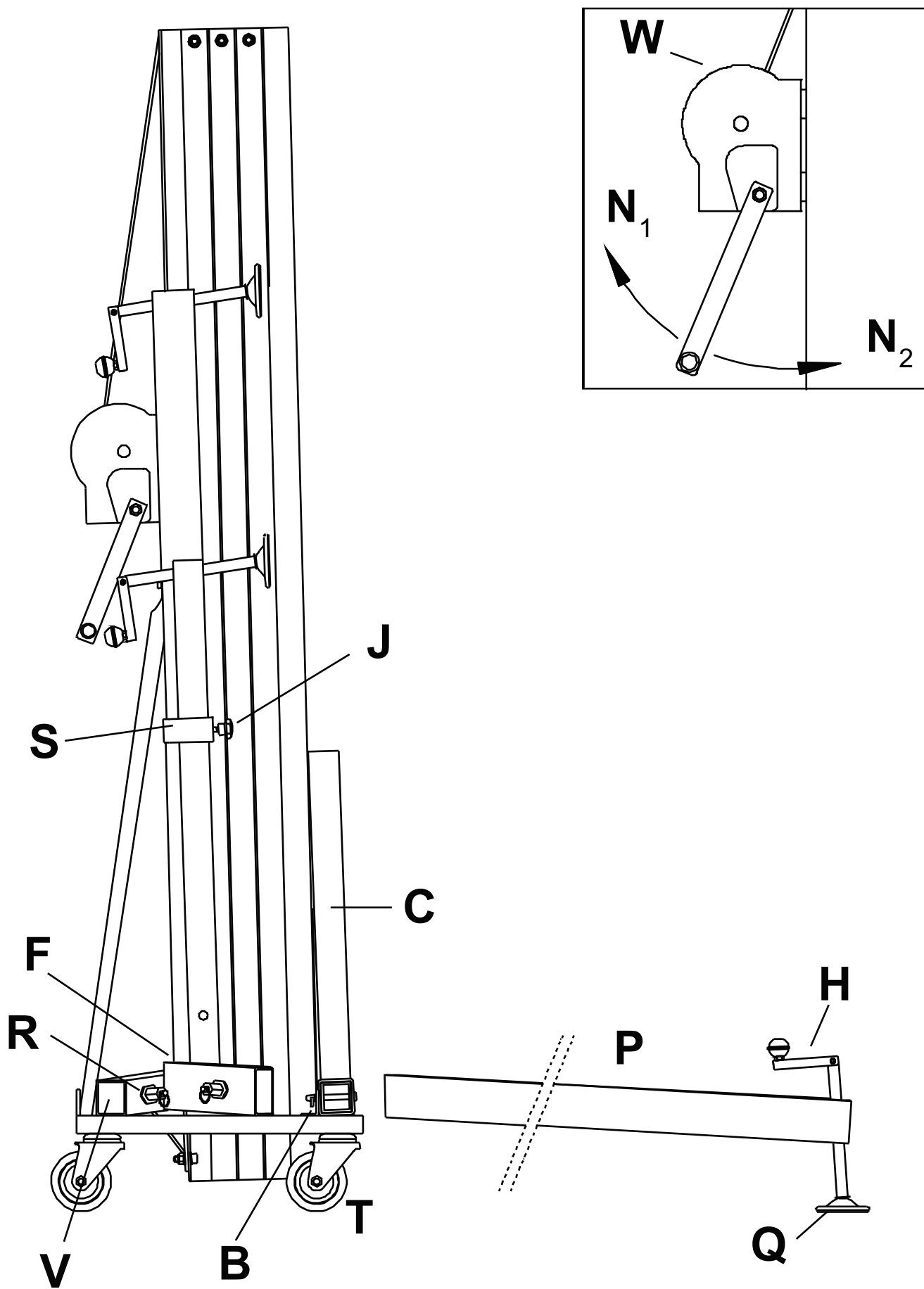
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TL-056



CONTENTS

1. Introduction.
2. Technical information.
3. How to place the load
4. How to load structures
5. How to load a bridge
6. Guarantee
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1. INTRODUCTION

Dear customer,

In order to operate the towerlift TL-054/ TL-055 and TL-056 in a safe and reliable manner, follow the instructions in this booklet.

Before operating the lift, read the instructions carefully.

Please note the technical information.

Our products undergo very rigorous testing under strict conditions and they are monitored continuously during the manufacturing process.

In order to guarantee the lift function and safety, the original parts of the manufacturer's design must be used. If any parts other than those of the manufacturer are used, or the product is modified in any way, the user forfeits all warranty rights to claim.

VMB reserves the right to modify the product specifications without prior notice. The model type, production year and serial number must be quoted in any queries or orders for spare parts.

2. TECHNICAL INFORMATION

2.1 - Towerlift TL-056.

2.2 - Designed to lift loads vertically to different heights to support lighting systems.

2.3 - Maximum load : 200 Kg

2.4 - Minimum load : Can be lifted with no weight.

2.5 - Maximum height
6,5 m TL-056.

2.6 - Minimum height
1,98 m TL-056

2.7 - Area of base : 2 x 2 m.

2.8 - Unit weight :
94,5 Kg

2.9 - Construction material : Main body in extruded aluminium 6082-T6 profile. Base and legs are made of steel profile according to DIN 2394. Catches and safety rack of ST-37 steel.

2.10 - Safety **ILS** system -Inertia-Lock Security

2.11 - Winch : 900 Kg of maximum load with automatic brake to stop the load.

2.12 - Cable : Steel DIN 3060. Quality 180 Kg/mm² twist resistant. Cable diameter : 6 mm.

2.13 -Adjustable stabilizing feet with rubber non-slip supports.

2.14 - Safety catches to anchor the legs.

2.15 - Spirit level to adjust the tower vertically.

2.16 - Base, legs, supports, forks are finished in satin polyester. The tower can be supplied with natural aluminium finish or black (version B).

2.17 - Swivel wheels to transport the lift when folded.

3. SAFETY PRECAUTIONS.



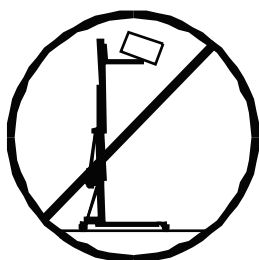
3.1 - The TL-054 / TL-055 / TL-056 is a machine designed to elevate loads upwards in a vertical direction, NEVER should it be used as a platform to elevate people.



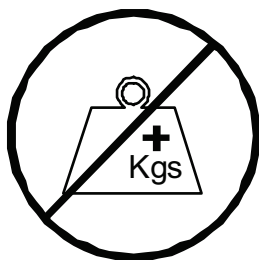
3.2 - Only place the lift on hard, flat surfaces always checking that it is in a vertical position by using the bubble level indicator (F) found on the base section. Adjust the outrigger stabilisers (Q) by turning the cranks to level if necessary. NEVER use wedges or other foreign objects to bring the lift to equilibrium.



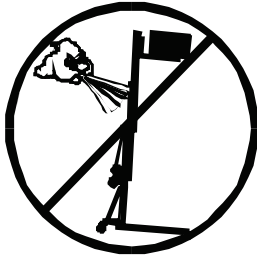
3.3 - Check that the outriggers are placed and set-up correctly using the pins safety system.



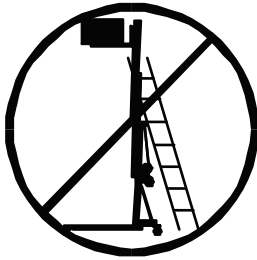
3.4 - NEVER should the lift be used to elevate a load that has not been properly checked. It is necessary to verify that the load is correctly supported and centred on the appropriate lift support so that the weight of the load will only elevate in a vertical direction.



3.5 - The maximum load indicated on the characteristics label and the instructions manual should not be exceeded



3.6 - If there is a possibility of strong winds or gusts, place the lift on the ground firmly and secure it with the use of straps. **NEVER** attach a strap to a vehicle or any other object that can possibly be moved.



3.7 - Do not use stepladders on the lift or use it as a support for them.



3.8 - Take care with all obstacles above the lift and its extension zone such as cornices, balconies, and luminous signboards. It is very important to avoid the presence of all types of cables below the extended lift.



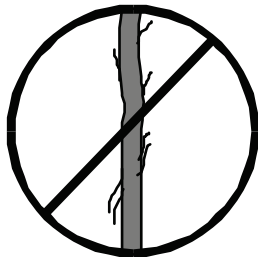
3.9 - **NEVER** allow any team member below the load or anybody else in the lifts operating zone.



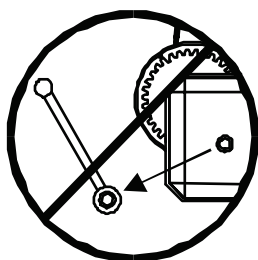
3.10 - **NEVER** move the lift whilst it is carrying a load. It is not advisable to carry out any type of movement even small positional adjustments.



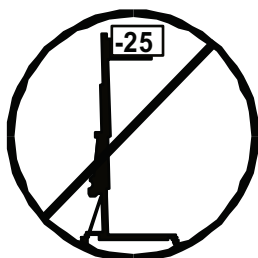
3.11 - **NEVER** use the lift on a vehicle or any other mobile surface.



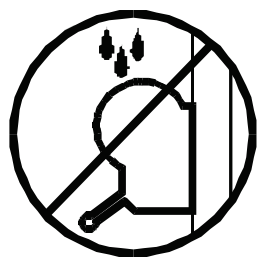
3.12 - Before using the lift, check the state of the cable. The cable should not contain broken threads or show any signs of crushed/flattened areas. NEVER use faulty cables, always change them if there is any doubt. Only use steel cables reference: DIN 3060. Quality: 180KG/mm and torsion resistant.



3.13 - NEVER take apart the crank of the winch when the lift is carrying a load or extended.



3.14 - The minimum load to avoid problems regarding the braking mechanism is 25KG. Without this load the brake will not work.



3.15 - Do not grease or lubricate the winch's braking mechanism. The brake disks have been greased with a special heat and pressure resistant solution. Other products should not be used to avoid negative effects regarding the braking mechanism.



3.16 - All sections must be lowered during transportation.



ORIGINAL

3.17 - Only original replacement parts should be used.

4. USAGE INSTRUCTIONS.

4.1 - Place the lift on a firm, flat surface in the area it is to be used supported its transport wheels (T).

4.2 - Remove the outriggers from their transport supports (S) and fully insert them into their positions (V) checking that they are fixed by the pins (R).

4.3 - Adjust the outrigger stabilisers (Q) by turning the cranks to level the lift. Ensure it is in a vertical position by using the bubble level indicator (F) found on the base section. The bubble should be in the centre of the circle.

4.4 - Place the forklifts in a horizontal position and secure them with the pins. VMB recommends the SU-070 Elevation Kit and the BS-070 Elevation Kit which have both been especially designed for loading and elevating with the TL-054, TL-055, TL-056.

4.5 - DO NOT OVERLOAD THE LIFT

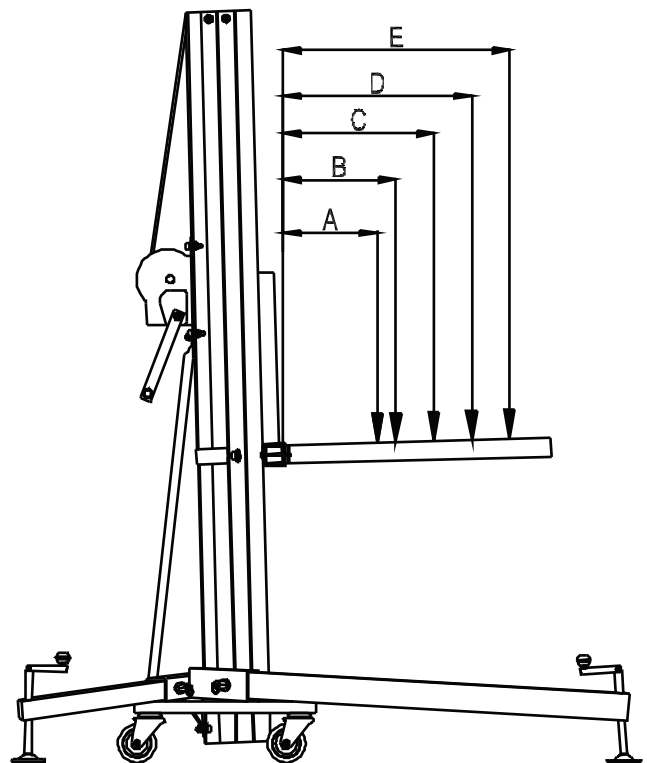
TL-056 MAXIMUM LOAD IS 200 KG.

The lift should NEVER be overloaded. Safety at work is the most important element. Place the load onto the lift using an adequate support according to the need, use so that the weight of the load will only elevate in a vertical direction.

4.6 - How to place the load

Always load as close to the tower as possible. The maximum load diminishes according to the distance from the body of the tower as illustrated in the diagram below.

	Distance from the center of the load to the carriage	Maximum load
		TL-056
A	25 cm	200 Kg
B	30 cm	180 Kg
C	40 cm	150 Kg
D	50 cm	128 Kg
E	60 cm	112 Kg



CAUTION

When two towers are used to elevate a bridge or many towers to elevate a structure of any type, it is almost impossible that two or more people co-ordinate the winches elevating or lowering the loads, at exactly the same pace. At a certain point each tower will be extended to a height different to that of the others. For this reason it is necessary that the subsections of the structure account for this and allow for these differences. With a rigid fixing and if the level difference is significant, the force generated from the handle of the winch will deform the structure and apply a lateral force to the lifts causing them to break and block.

Security system ILS

The towerlift incorporates the security system ILS (INERTIA LOCK SYSTEM).

This system automatically blocks the tower in case of cable breaks.

4.7 - Elevation:

Turn the winch crank clockwise to lift the carriage a few centimeters. Release the forks and place them in the working position inserting the pins. Turn the crank clockwise and the tower will lift.

4.8 - Hold:

The tower can be left in any intermediate position which would be necessary. Just stop turning the handle of the winch and leave it. The automatic brake of the winch will block it and hold the load.

4.9 - Lowering:

Just turn the winch in the appropriate way to lower the carriage and all the profiles.

4.10 - Transport:

For the transport of the tower is necessary to fold the machine lowering completely all the profiles. Once the towerlift is folded it is very important to block the lifting carriage with its transport support (**B**). Get out the legs leaving the blockade on the triggers and put them in their transport lodging (**S**). Then press the fastening screws.

5. MAINTENANCE.

5.1 - Regularly check the state of the cable. If the cable has broken threads, or if it shows any signs of crushed/flattened areas, it should be changed and replaced immediately with a new one. Do not use the lift if the cables are in bad condition. Only use steel cables reference: DIN 3060 torsion resistant.

5.2 - The lift is supplied from the factory completely greased. However, it is recommended to periodically grease according to use, the gearing, the axis bearings, the spiral of the crank, and the sections.

REMEMBER: NEVER grease or lubricate the breaking mechanism.

It is not necessary to grease the brake disks. The brake disks have been greased with a special heat and pressure resistant solution. Other products should not be used to avoid negative effects regarding the braking mechanism.

5.3 - An expert should check the Towerlift at least once a year according to its usage. Consult your distributor.

5.4 - Only original replacement parts should be used to guarantee continued safety during usage.

The user loses all guarantee rights if he/she uses replacement parts that are not original or if he/she makes any modification to the apparatus.

5.5 - To order any replacement parts, the reference number on the replacement parts pages in this manual should be indicated.

6. GUARANTEE.

If during the guarantee period because of poor workmanship or faulty materials VMB Española, S.A. will repair or replace it.

The guarantee period for Europe is at 2 years.

The guarantee does not cover damage caused by improper use, wear and tear unauthorised repairs. The guarantee does not cover consumables or defects that have only a negligible effect on the value or operation of the elevator tower.

7. CERTIFICATIONS



EC Machinery Directive
89/392/ECC and 98/37/ECC

CERTIFICADO 356 / 2007



Declaración de conformidad CE según la directiva 89/392/CE y 98/37/CE del Parlamento Europeo sobre máquinas, apartado: Elevadores de accionamiento manual.

- FABRICANTE:



VMB Española S.A.
Pol. Ind. Picassent - Calle 2 (final)
E-46220 Picassent - VALENCIA

- TIPO DE MAQUINA: Torre telescópica para elevación de estructuras

- MODELO: TL-056

- DESCRIPCION: Elevador telescópico de: 4 tramos

Altura mínima: 1.98 m

Altura máxima: 6.50 m

Peso máx. de elevación: 200 Kg.(2.000N)

Superficie base: 2.0 x 2.0 m

Cabrestante elevador GOLIAT.

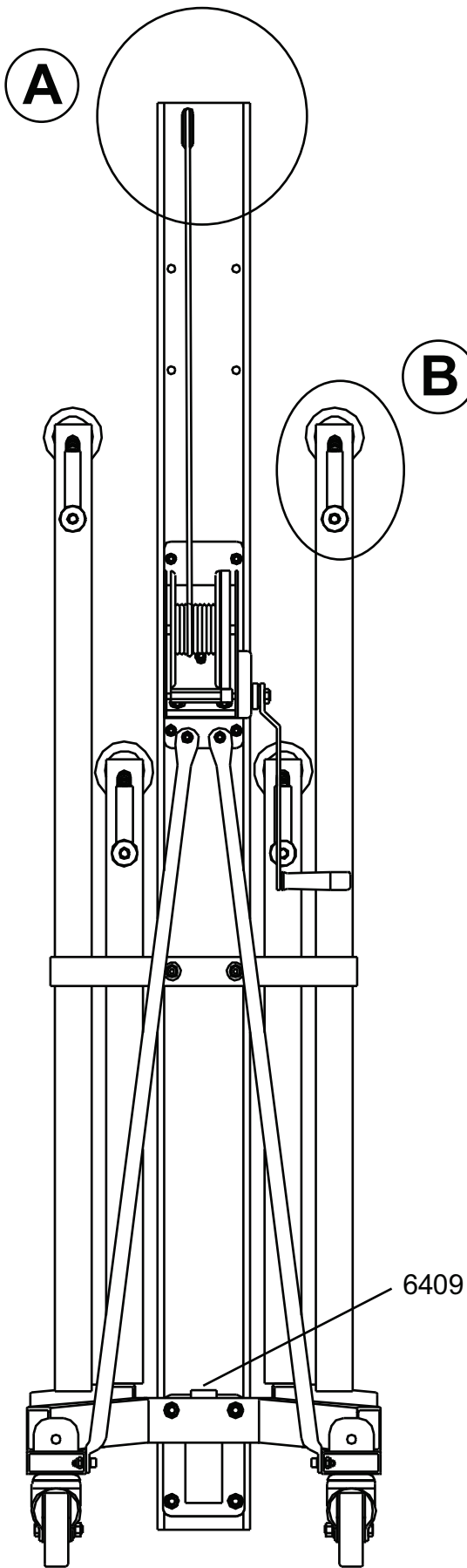
Declaramos que las torres elevadoras VMB cumplen las disposiciones de la **directiva de máquina 89/392/CE, 98/37/CE**, las demás normativas CE y ampliaciones correspondientes.

Picassent 12 Febrero 2007

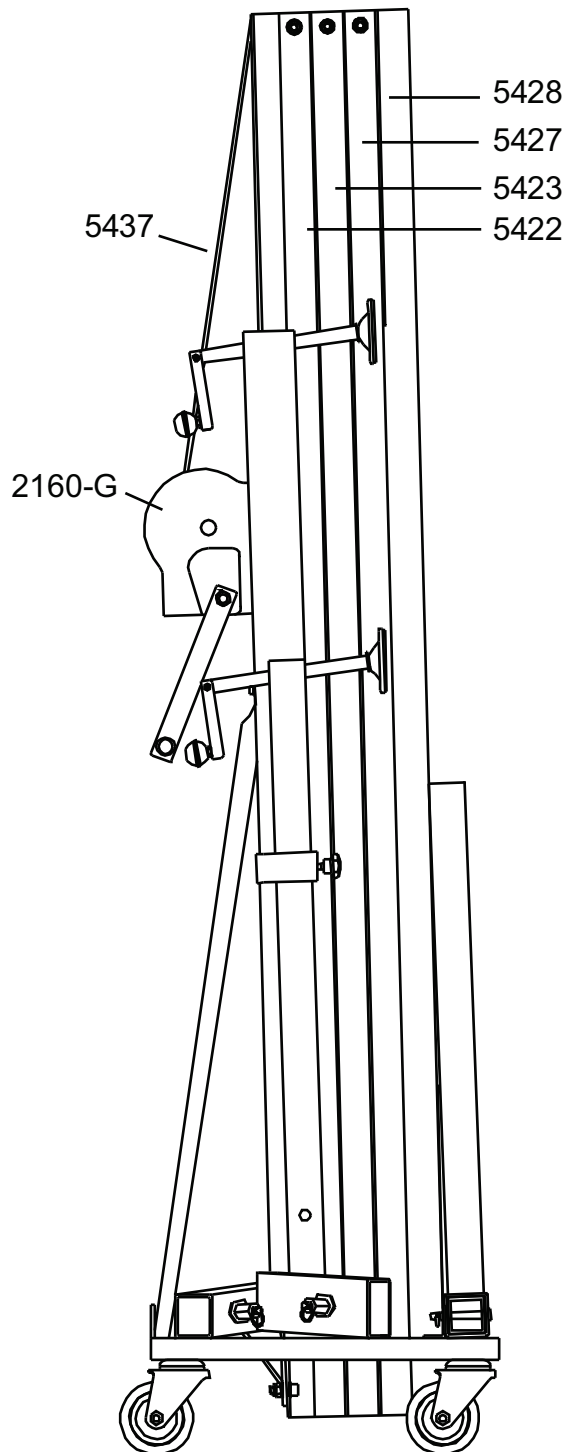
VMB Española, S.A.
P. I. Picassent - Calle 2, final
46220 PICASSENT (Valencia)

Vicente Matalí
Director Gerente

TL-056

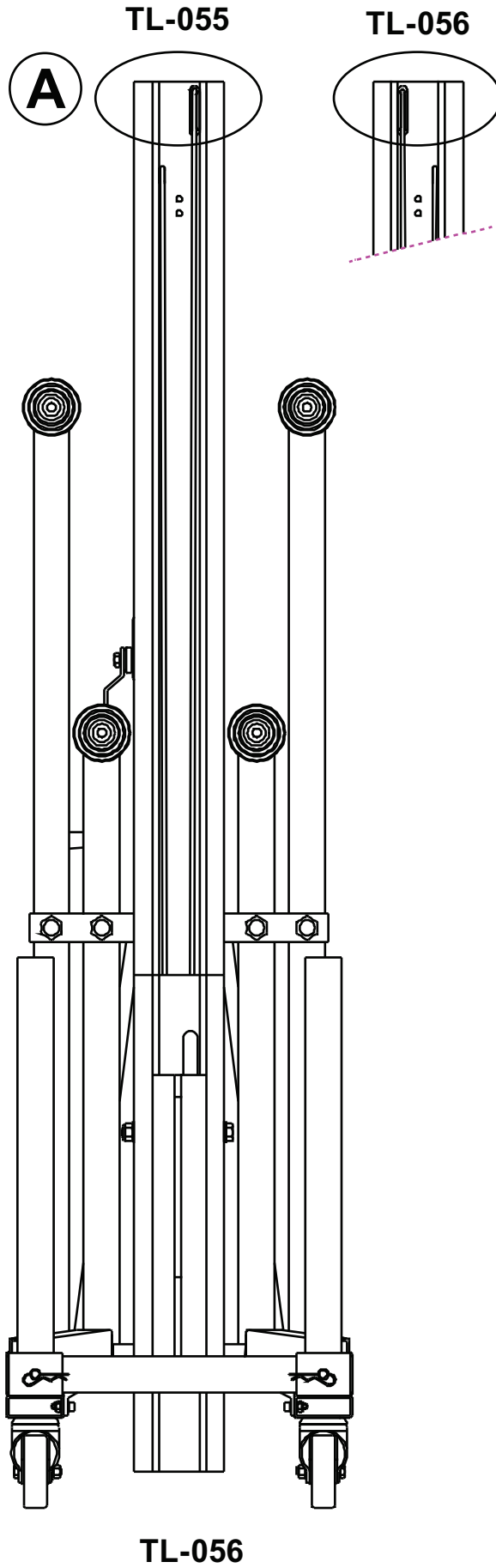


TL-055 /
TL-056

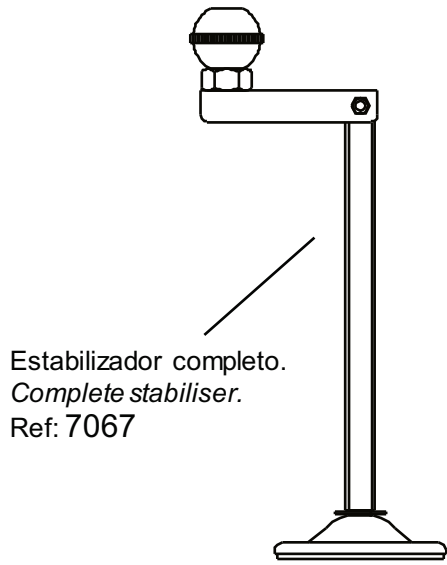


TL-056

TL-056

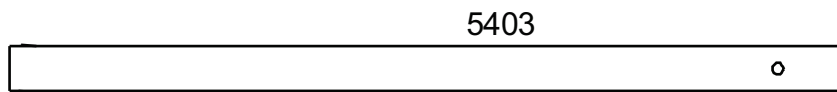
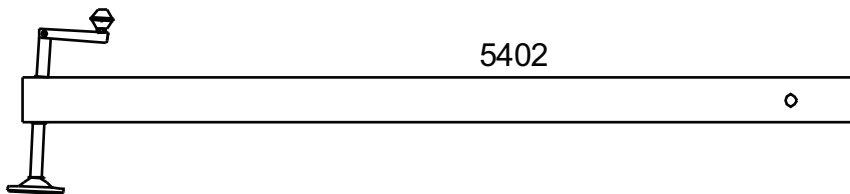
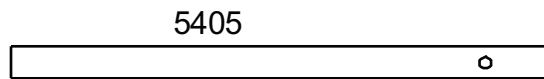
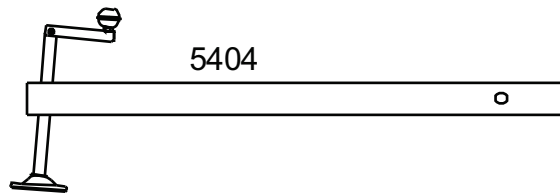
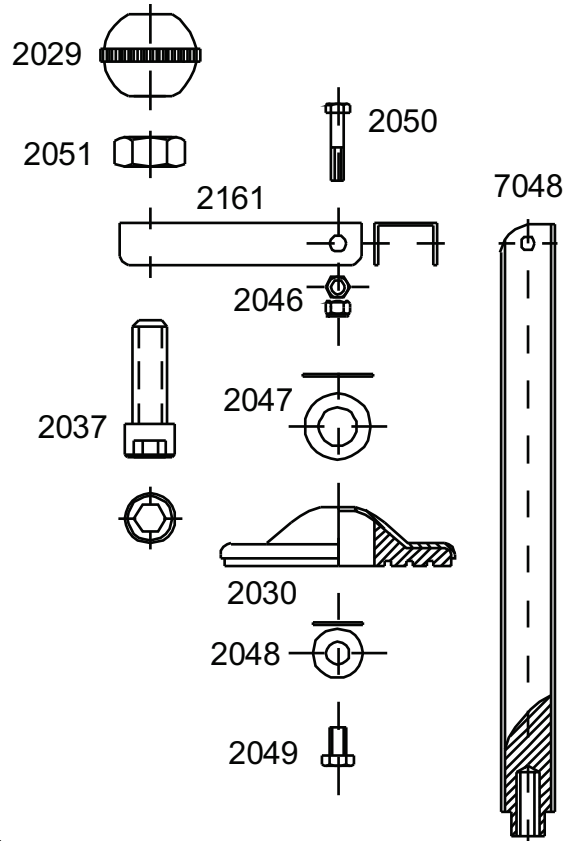


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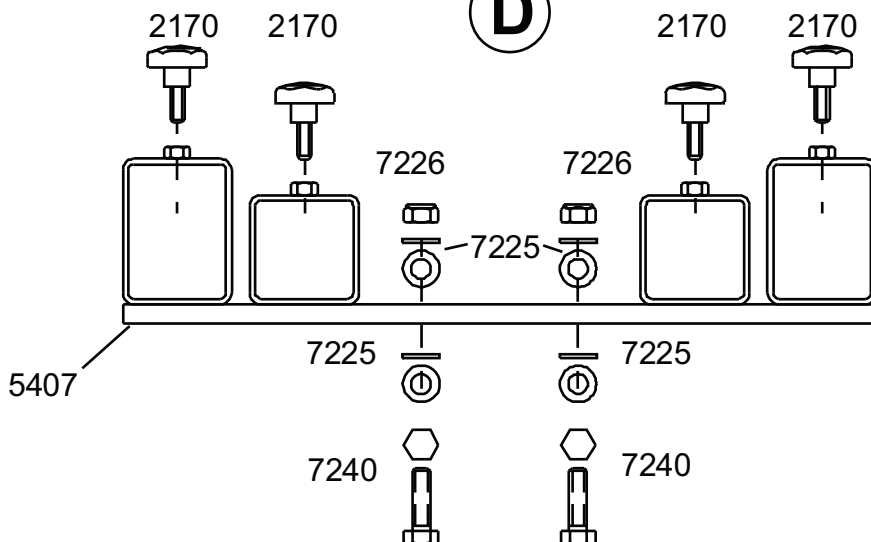


Estabilizador completo.
Complete stabiliser.
Ref: 7067

B

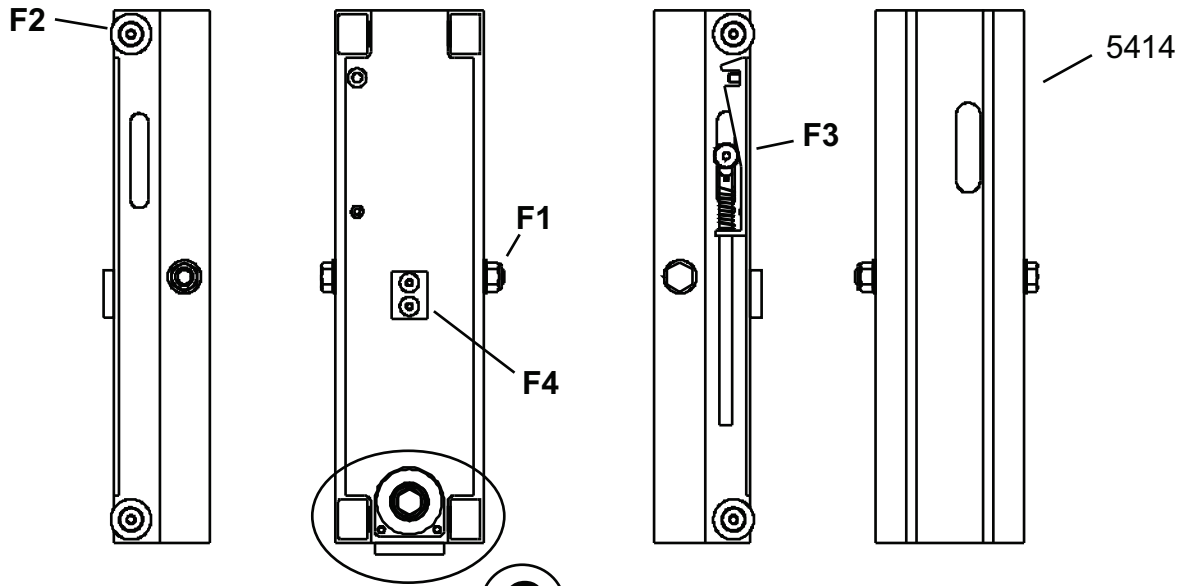


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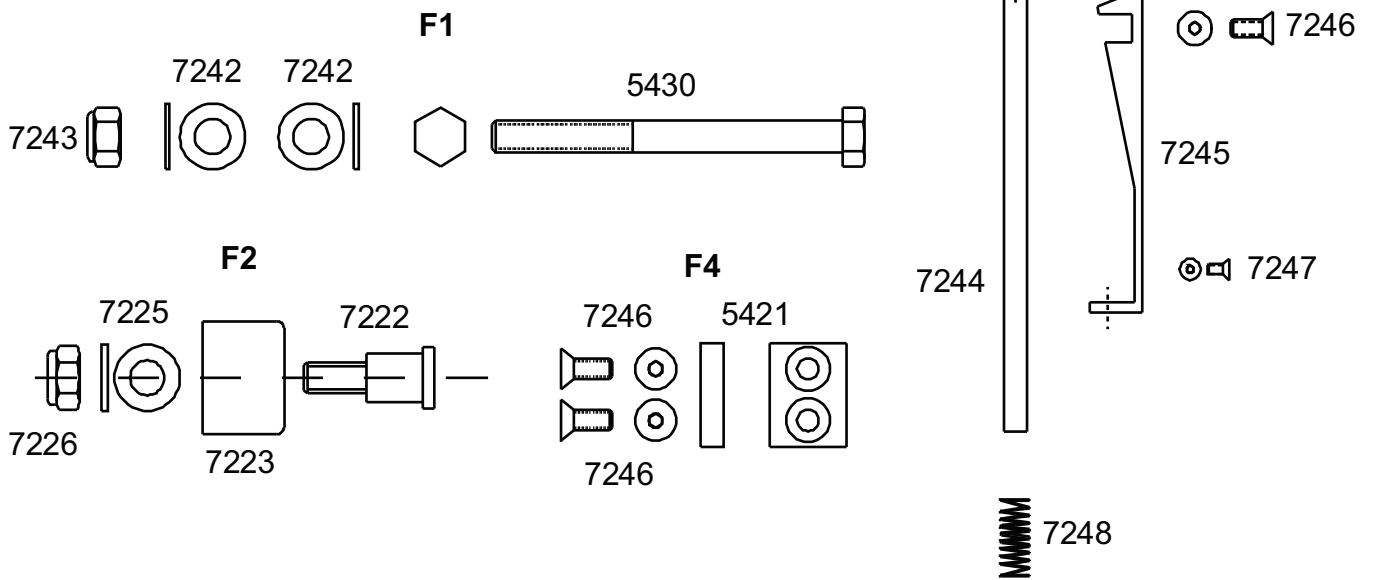


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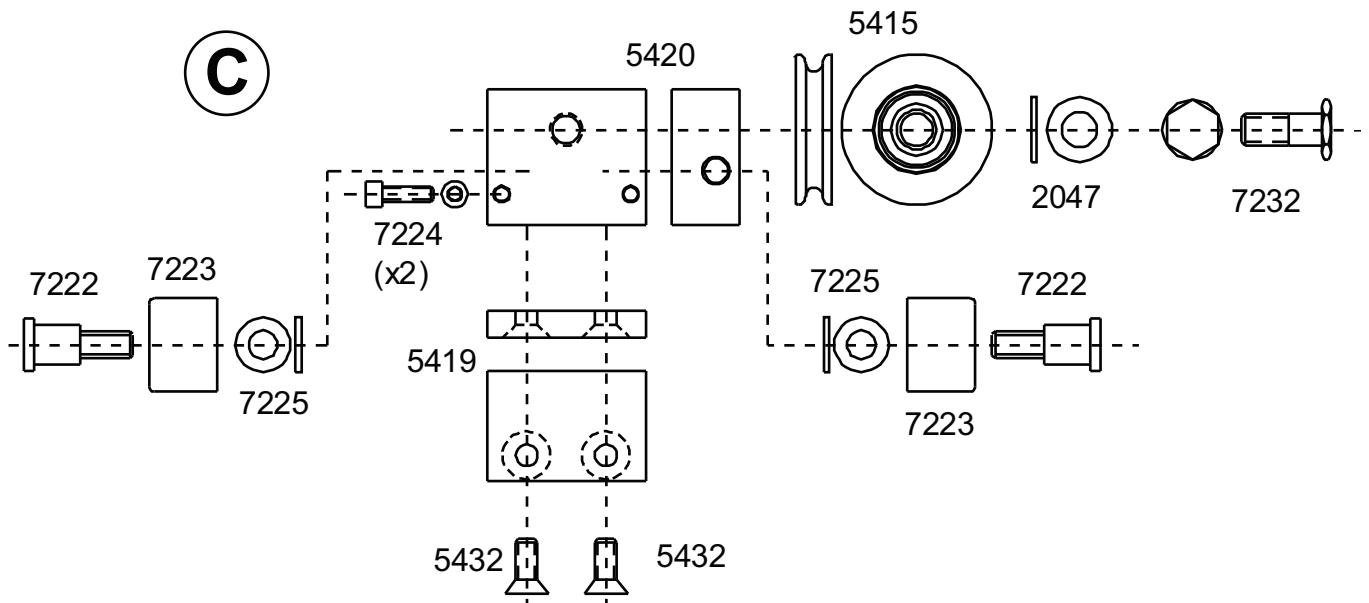
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C



C

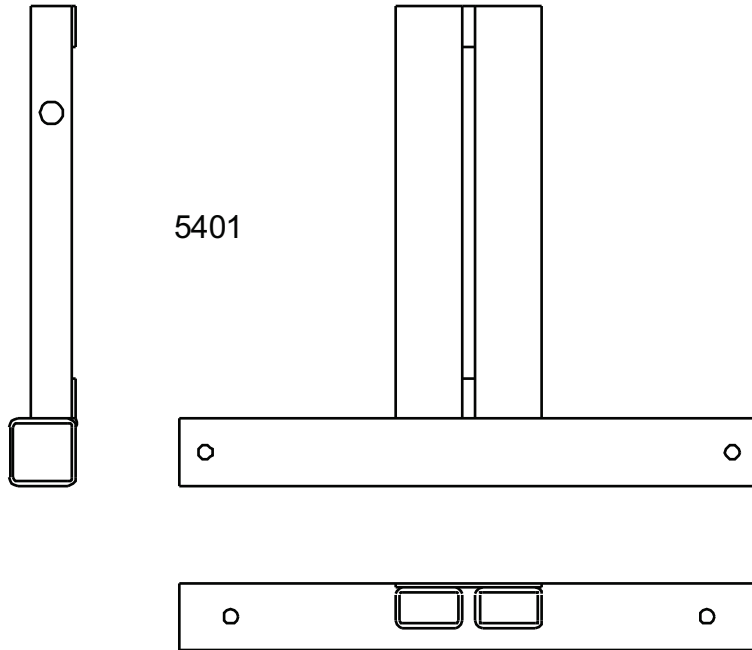


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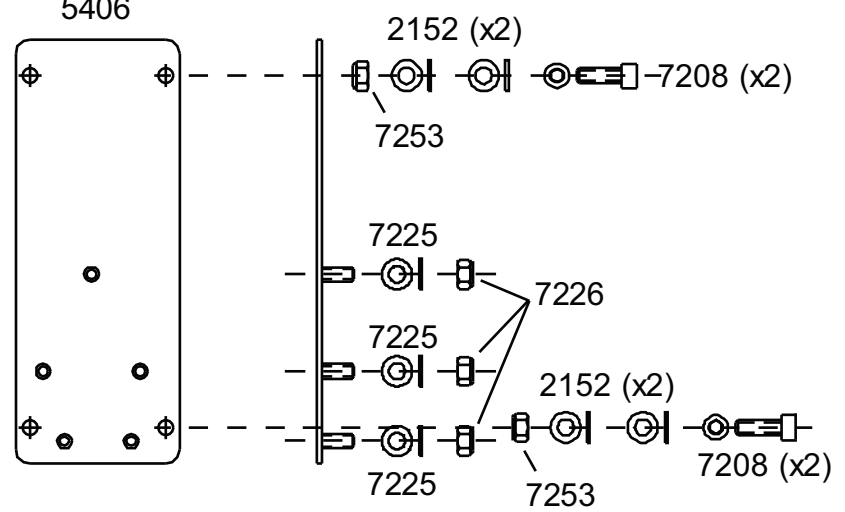
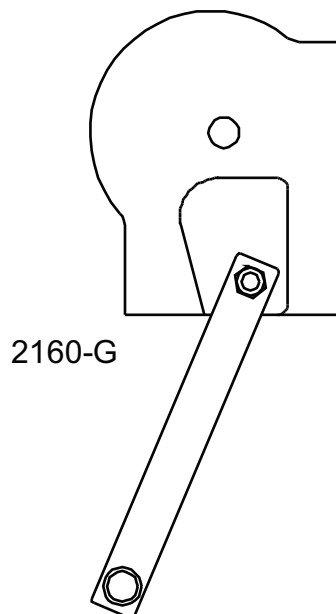
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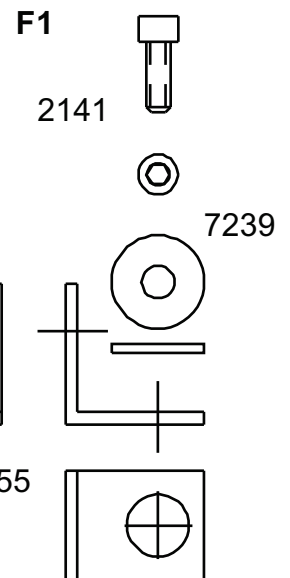
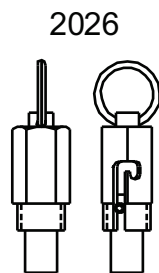
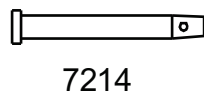
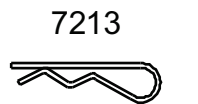
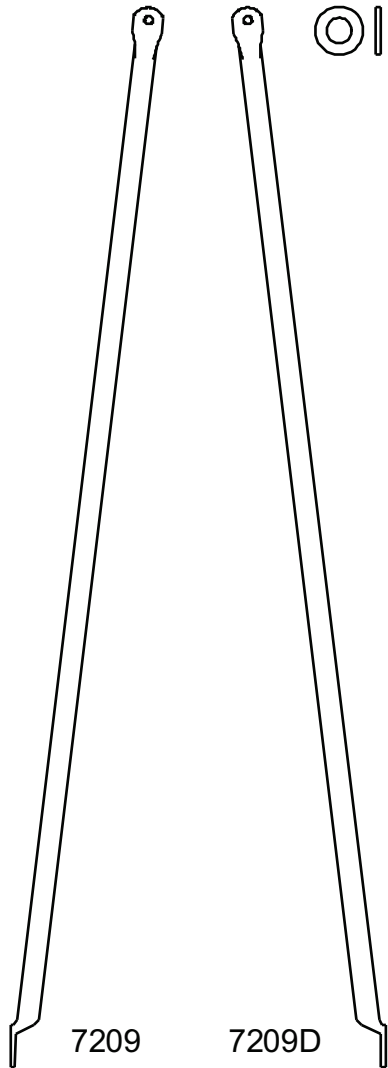
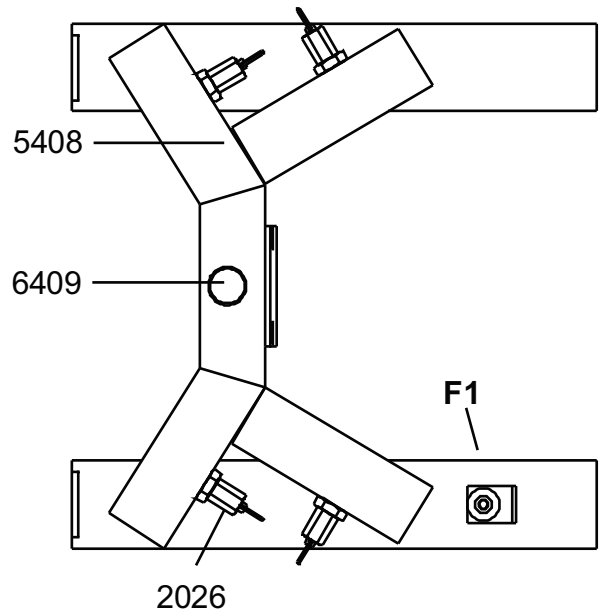
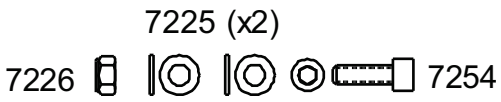
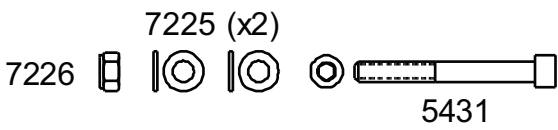
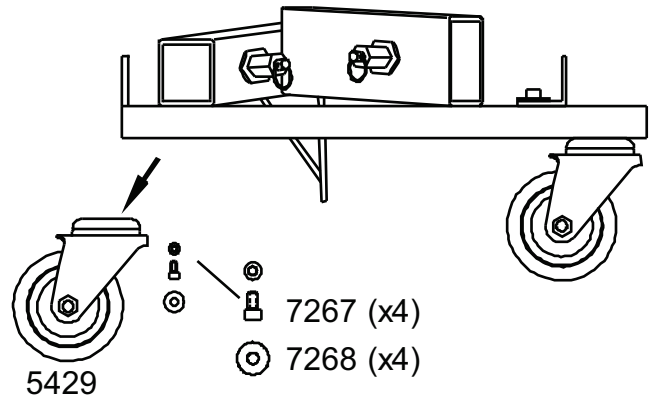
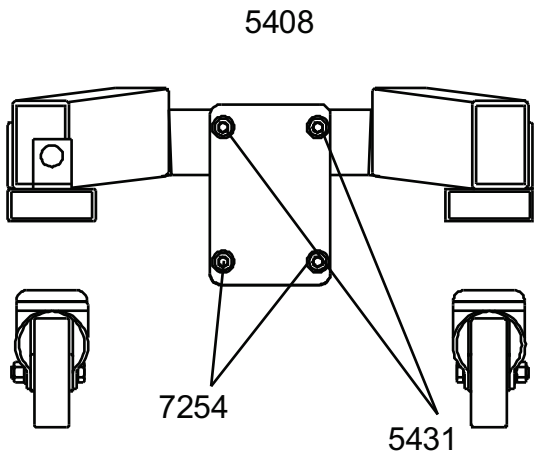


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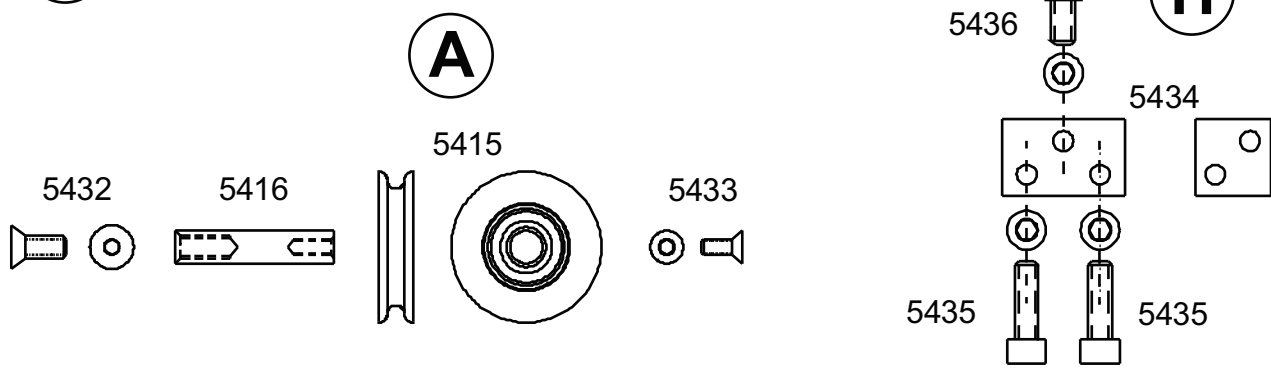
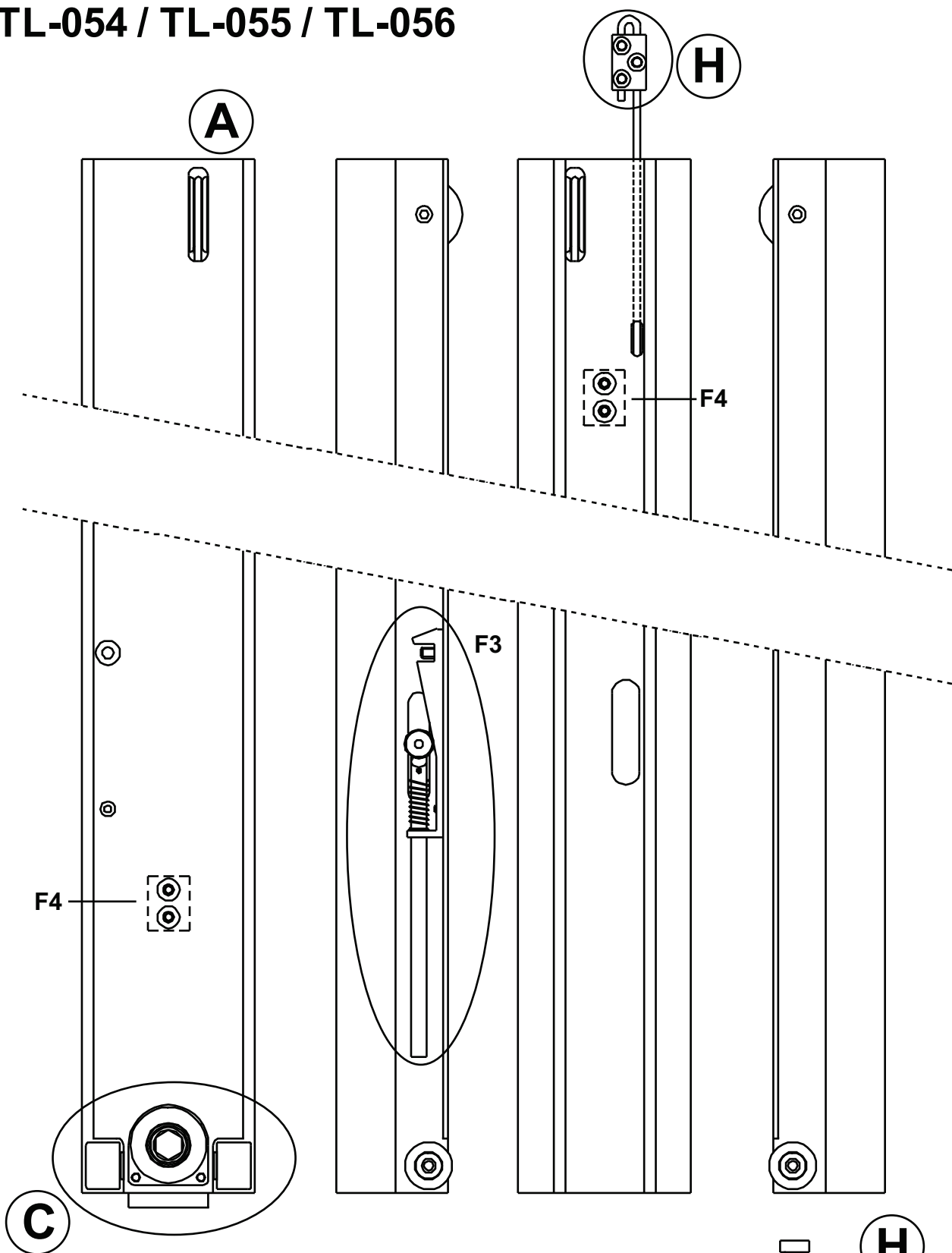


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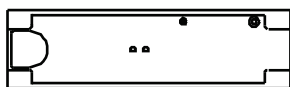


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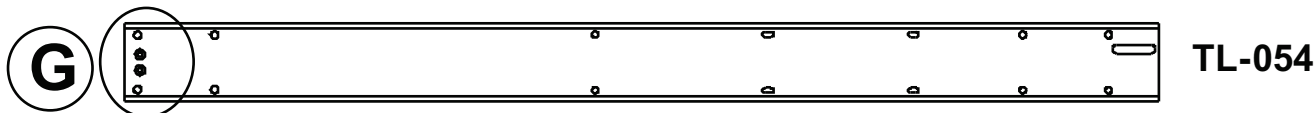


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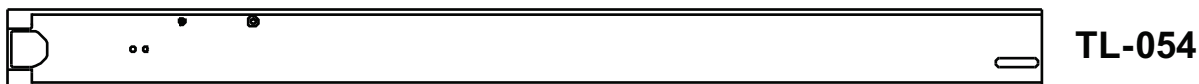
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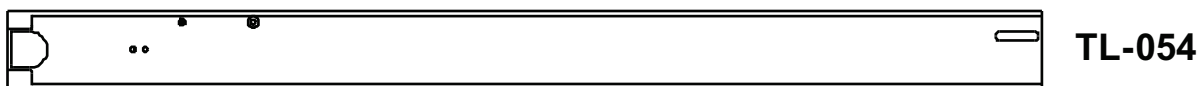
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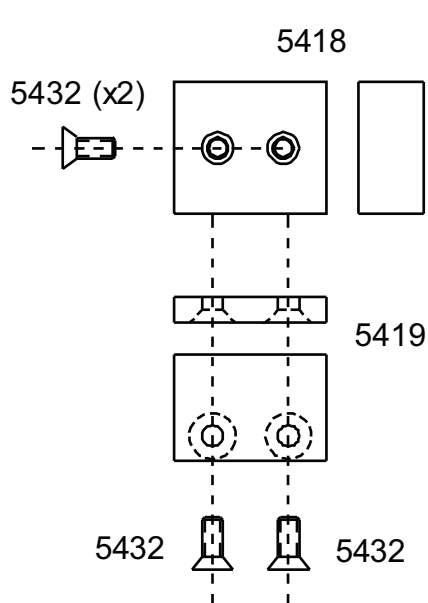
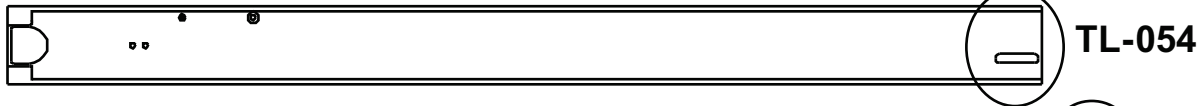
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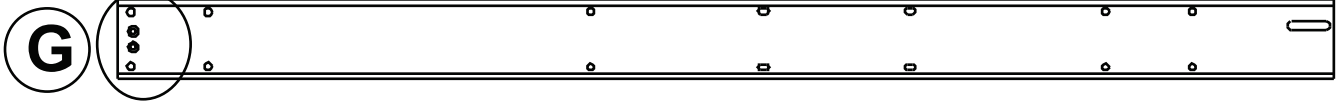
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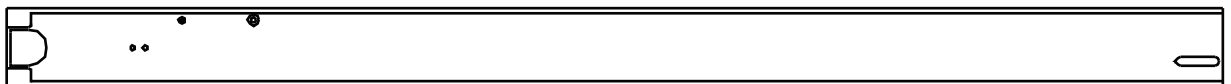
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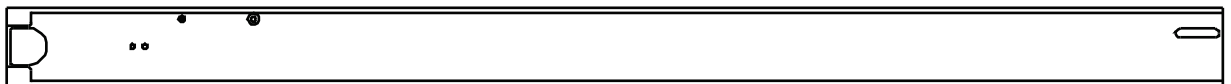
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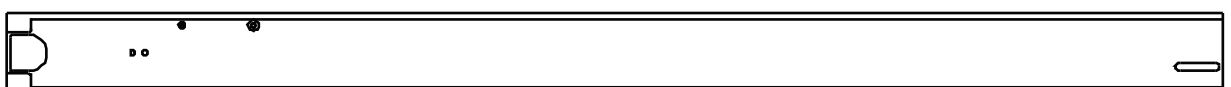
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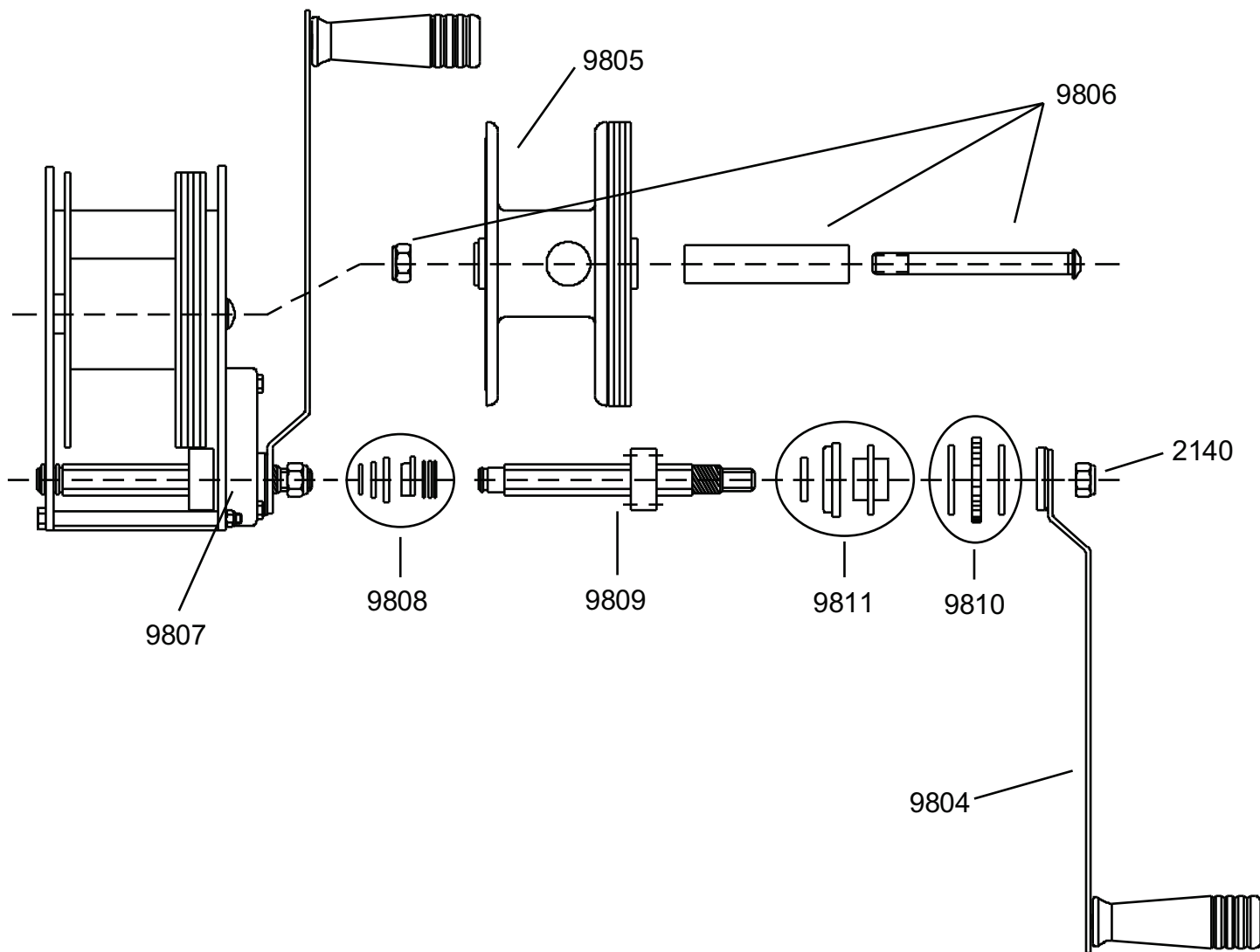
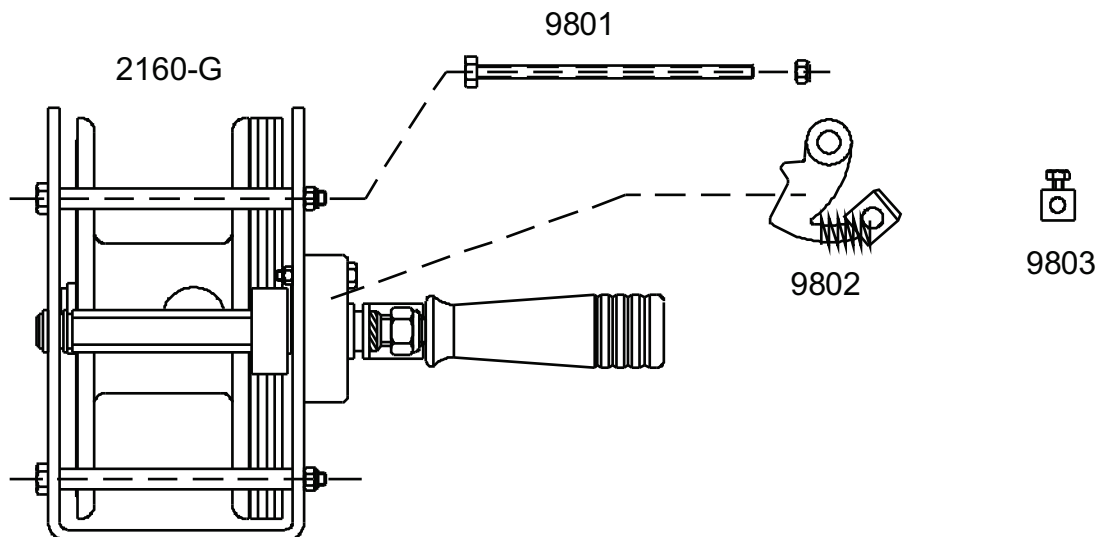


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TL-056



TL-054 / TL-055 / TL-056



LISTA DE PIEZAS / SPARE PARTS LIST



Ref.	Descripción / Description :
2026	Gatillo seguridad / <i>Safety catch.</i>
2029	Pomo baquelita / <i>Crank nob.</i>
2030	Platillo de apoyo / <i>Stabilizer round plate.</i>
2037	Tornillo / <i>Screw.</i>
2046	Tuerca / <i>Nut.</i>
2047	Arandela / <i>Washer.</i>
2048	Arandela / <i>Washer.</i>
2049	Tornillo / <i>Screw.</i>
2050	Tornillo / <i>Screw.</i>
2051	Tuerca / <i>Nut.</i>
2140	Tuerca / <i>Nut.</i>
2141	Tornillo / <i>Screw.</i>
2152	Arandela / <i>Washer.</i>
2160-G	Cabrestante / <i>Winch.</i>
2161	Manivela patas / <i>Steel hand crank.</i>
2170	Pomo con rosca M-8 / <i>M-8 cranck nob.</i>
5401	Soporte brazos de carga. / <i>Fork support.</i>
5402	Pata larga completa. / <i>Complete long leg.</i>
5403	Perfil pata larga. / <i>Long legs profile.</i>
5404	Pata corta completa. / <i>Complete short leg.</i>
5405	Perfil pata corta. / <i>Short legs profile.</i>
5406	Portacabrestante. / <i>Winch fixation.</i>
5407	Portapatas. / <i>Outrigger support.</i>
5408	Base. / <i>Base.</i>
5409	Pieza kit de transporte. / <i>Transport Kit piece.</i>
5410 (B)	Tramo 1. / <i>Profile 1. (B negro / B Black)</i>
5411 (B)	Tramo 2. / <i>Profile 2. (B negro / B Black)</i>
5412 (B)	Tramo 3. / <i>Profile 3. (B negro / B Black)</i>
5413 (B)	Tramo 4. / <i>Profile 4. (B negro / B Black)</i>
5414 (B)	Carro elevador. / <i>Lifting carriage. (B negro / B Black)</i>
5415	Polea especial. / <i>Special pulley.</i>
5416	Eje de acero. / <i>Steel axe.</i>
5417	Tornillo / <i>Screw.</i>
5418	Tope de aluminio. / <i>Alluminium piece.</i>
5419	Tope de aluminio. / <i>Alluminium piece.</i>
5420	Tope de aluminio. / <i>Alluminium piece.</i>
5421	Tope de aluminio. / <i>Alluminium piece.</i>
5422 (B)	Tramo 1. / <i>Profile 1. (B negro / B Black)</i>
5423 (B)	Tramo 2. / <i>Profile 2. (B negro / B Black)</i>
5424 (B)	Tramo 3. / <i>Profile 3. (B negro / B Black)</i>
5425	Cable de acero. / <i>Steel cable.</i>
5426	Cable de acero. / <i>Steel cable.</i>
5427 (B)	Tramo 3. / <i>Profile 3. (B negro / B Black)</i>
5428 (B)	Tramo 4. / <i>Profile 4. (B negro / B Black)</i>
5429	Rueda / <i>Wheel.</i>
5430	Tornillo / <i>Screw.</i>
5431	Tornillo / <i>Screw.</i>
5432	Tornillo / <i>Screw.</i>
5433	Tornillo / <i>Screw.</i>
5434	Fijación cable / <i>Cable fixation.</i>
5435	Tornillo / <i>Screw.</i>
5436	Tornillo / <i>Screw.</i>

LISTA DE PIEZAS / SPARE PARTS LIST



Ref.	Descripción / Description :
5437	<i>Steel cable.</i>
6409	<i>Buble level.</i>
7040	<i>Load support fork.</i>
7048	<i>Screw.</i>
7067	<i>Complete stabiliser.</i>
7208	<i>Screw.</i>
7209	<i>Base profile strut.</i>
7209D	<i>Base profile strut.</i>
7213	<i>R clip.</i>
7214	<i>Fasterner steel pin.</i>
7222	<i>Special screw.</i>
7223	<i>Nylon pulley.</i>
7224	<i>Screw.</i>
7225	<i>Washer.</i>
7226	<i>Nut.</i>
7232	<i>Special screw.</i>
7240	<i>Screw.</i>
7242	<i>Washer.</i>
7243	<i>Nut.</i>
7244	<i>Brake lock.</i>
7245	<i>Soporte varilla freno inercia / Brake lock support.</i>
7246	<i>Tornillo / Screw.</i>
7247	<i>Tornillo / Screw.</i>
7248	<i>Muelle freno inercia / Brake spring.</i>
7253	<i>Tuerca / Nut.</i>
7254	<i>Tornillo / Screw.</i>
7267	<i>Tornillo / Screw.</i>
7268	<i>Arandela / Washer.</i>
9801	<i>Tornillo especial / Special screw.</i>
9802	<i>Trinquete / Special piece.</i>
9803	<i>Prisionero cable 2160-G / Cable end lock.</i>
9804	<i>Manivela 2160-G / Handle.</i>
9805	<i>Tambor cable 2160-G / Cable drum.</i>
9806	<i>Eje tambor / Axe drum.</i>
9807	<i>Tapa plástico / Plastic cap.</i>
9808	<i>Fijación eje / Axe fixation.</i>
9809	<i>Eje tracción / Traction axe.</i>
9810	<i>Sistema freno / Brake system.</i>
9811	<i>Apoyo freno / Brake support.</i>

