

XLANDER

REV. 2023



INSTRUCTIONS AND SPARE PARTS MANUAL



CONGRATULATIONS!

You have just acquired Ovlac machinery!

As the country's largest producer of agricultural machinery for soil tillage, we are honoured that you have chosen Ovlac as your trusted choice.

After many years of experience in the field, we make sure that you will be proud of your purchase in the same way that we are proud of the product we have created under the strictest quality standards.

For the correct use and enjoyment of this equipment, we strongly recommend that the customer read the instructions contained in this manual and use it as a reference for any questions that may arise regarding the operation of your Ovlac equipment.

Sincerely yours: Jorge Calvo
CEO of Ovlac



CONSIDERATIONS

This instruction manual describes the Operating and Maintenance Instructions and Spare Parts for the indicated equipment.

This agricultural equipment, called XLANDER, is designed for tilling the soil, applied to a Tractor with lifting gear and universal threepoint linkage.

The proper functioning of the machine depends on its correct use. It is therefore advisable to read the instructions given in this manual carefully in order to avoid any inconvenience that could impair the proper functioning and durability of the machine.

It is also important to follow the instructions in the manual, as the Manufacturer declines all responsibility for negligence and non-observance of these instructions.

The Manufacturer is at your disposal to guarantee immediate and accurate technical assistance and to provide all that may be necessary for a better functioning and performance of the machine.

The Manufacturer reserves the right to modify the Machine without the need to urgently update this publication.



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1.- Security Rules

Read carefully all the instructions for use of the cultivator.

The manufacturer declines all responsibility for any inconvenience caused by NOT observing the Safety and Accident Prevention Regulations described below.

- 1.- Pay attention to the danger and warning symbols shown in this manual and indicated on the equipment.
- 2.- Repairs and adjustments to the equipment must always be carried out with the engine stopped and the tractor locked.
- 3.- It is strictly forbidden to transport people or animals on the equipment.
- 4.- It is strictly forbidden to entrust the driving of the tractor, with the equipment hooked up, to people without a driving license, inexperienced, or who are not in good condition.
- 5.- Scrupulously observe all the accident prevention measures recommended and described in this manual.
- 6.- The application of additional equipment to the tractor implies a different weight distribution on the tractor axles.
- 7.- Before putting the tractor and the equipment into operation, check that all the safety elements for transport and use are in perfect condition.
- 8.- The symbols with warnings displayed on the equipment give the appropriate suggestions for the use of the same.
- 9.- To circulate on the road, it is necessary to observe the rules of circulation according to the country where it's operated.
- 10.- Respect the maximum weight foreseen on the tractor, the total mobile weight, the transport regulations and the road code.
- 11.- Before starting to work, familiarise yourself with the control devices.
- 11.- Before starting to work, familiarise yourself with the control devices.
- 12.- Pay the utmost attention to hitching and unhitching the equipment.
- 13.- Never leave the driving position when the tractor is in motion.
- 14.- Remember that road adherence, steering and braking capacity may vary significantly due to the presence of suspended equipment.
- 15.- It is strictly forbidden to remain in the area of action of the equipment.
- 16.- Before leaving the tractor, lower the suspended equipment, stop the engine, apply the parking brake, and remove the ignition key from the dashboard.
- 17.- The category of the hitch pins of the equipment must correspond to that of the linkage of the lift.
- 18.- Pay maximum attention when working in the area of the arms of the tractor, it is a very dangerous area.
- 19.- It is strictly forbidden to stand between the tractor and the equipment to manoeuvre the external lifting control.
- 20.- During road transport with the equipment suspended, put the control lever of the hydraulic lift in the locking position.
- 21.- The spare parts must correspond to the requirements defined by the Manufacturer. Always use original spare parts.
- 22.- The safety instruction decals must always be clearly visible. Clean and replace them if they are not legible (You can ask your dealer for them).
- 23.- The instruction manual must be kept for the whole life of the equipment.



(Fig.1) **WARNING**

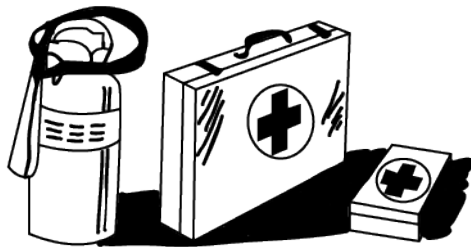
Before starting to work, read the instructions in the manual.

DANGER

Do not handle the equipment when it is suspended, danger of crushing. Maintain the safety distance.

DANGER

Lifting the equipment can cause injuries due to reaching. Maintain the safety distance.



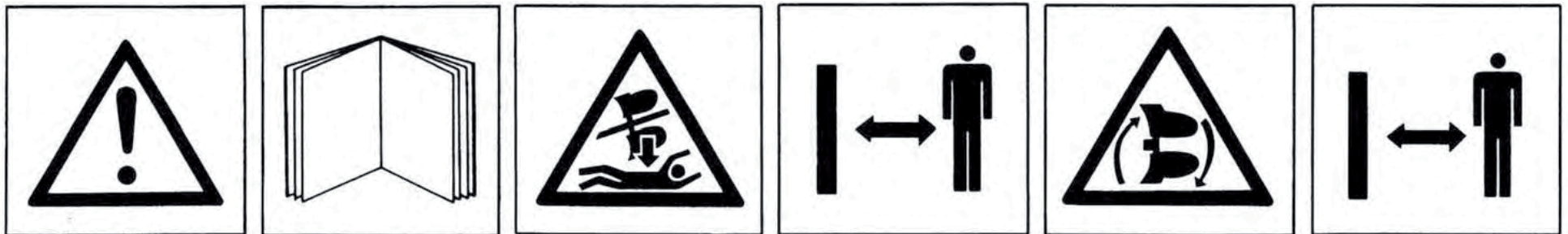
To be ready in case of an emergency

Keep a first aid kit and fire extinguisher on hand. Write down the telephone numbers of doctors, ambulance and fire brigade and keep them near the phone.

Use adequate clothes

Avoid loose clothing and use appropriate safety equipment depending on the type of work. Safe operation of the machine requires the full attention of the operator.

Don't use headphones for listening to the radio while working with the machine.



SPECIFIC INSTRUCTIONS FOR WELDING REPAIRS

When repair by welding is authorised by the manufacturer, the following points shall be taken into account generally.
In particular cases, appropriate welding instructions shall be provided for each application.

1 Repair welding should be carried out by qualified welders and in accordance with good technical and safety code practice.

2 Before welding repairs, remove paint, rust, dirt or any other substances harmful to the weld.

3 To avoid damage to mechanical or hydraulic components such as bearings, shafts, hydraulic actuators, hydraulic systems, etc., care should be taken to place the earth connection in an area of good contact, free of paint and rust.

On machines with hydraulic cylinders, we must ensure that the welding current does not flow through such elements. For this purpose, the earth connection shall be placed on the same part of the machine to be repaired.

4 Our machines are made of high elastic limit (HEL) steels, which means that special attention must be paid to welding processes and filler materials. In general, basic coated electrodes E7016 or E7018 will be used. For the MAG (semi-automatic) welding process, ER70S6 wire and Ar+20CO₂ will be used as shielding gas. In both cases, follow the recommendations for drying times and temperatures recommended by the manufacturers of the filler material.

5 When the parts to be welded are thicker than 15 mm, or the ambient temperature is lower than 15 °C, preheating by flame between 75-100 °C is recommended.

6 It is strictly forbidden to cool welding seams with water, air or any other substance.

In case of questions during repair, please contact the manufacturer via the usual means of communication.

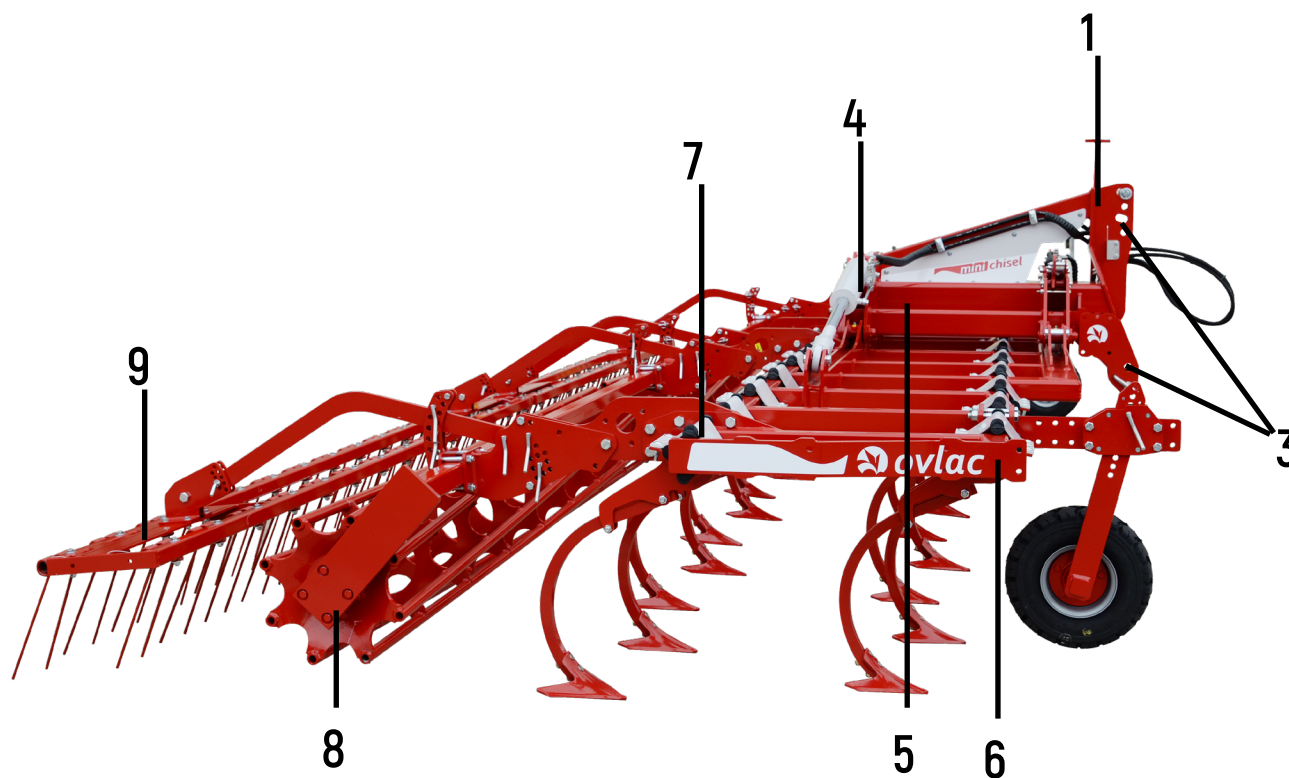


2.- Description and Technical Data

1. HEADSTOCK
2. IDENTIFICATION PLATE*
3. LINKAGE
4. FOLDING CYLINDER**
5. CENTRAL FRAME
6. SIDE FRAME
7. SECURITY SYSTEM
8. ROLLER
9. REAR EQUIPMENT

Note: the number of the plough's manufacture, engraved on the nameplate, must match the number engraved on the headstock's support.

*2. IDENTIFICATION PLATE



Technical Data

	Model	N of arms	Working Width (m)	Transport width (m)	Power (CV)	Weight (Kg)	Distance between arms (cm)
2 rows	MCH-2-9	9	2'7	27	70-80	780	27'5
	MCH-2-11	11	3	3	85-110	860	
	MCH-2-13	13	3'5	2'5	100-130	950	
	MCH-2-15-P*	7+8	4	2'5	120-150	1380	
	MCH-2-17-P	8+9	4'6	2'5	135-170	1530	
	MCH-2-19-P	9+10	5'15	2'5	150-190	1680	
	MCH-2-21-P	10+11	5'7	2'5	170-210	1860	
	MCH-2-23-P	11+12	6'25	3	180-230	2150	
	MCH-2-25-P	12+13	6'8	3	200-250	2280	
	MCH-2-27-P	13+14	7'35	3	215-270	2400	
3 rows	MCH-3-13	13	3	3	90-115	910	23
	MCH-3-16	16	3'7	4	110-130	1060	
	MCH-3-16-P	2+12+2	3'7	3	110-130	1580	
	MCH-3-19-P	9+10	4'4	2'5	130-170	1725	
	MCH-3-22-P	11+11	5'05	2'5	155-200	1990	
	MCH-3-25-P	12+13	5'75	2'5	175-225	2180	
	MCH-3-28-P	14+14	6'45	3	195-250	2495	
	MCH-3-31-P	15+16	7'15	3	215-280	2650	

* All P models are folding type.



3.- Non-Stop Security System

"Non-Stop" rubber security systems act automatically. When the share it's facing an obstacle, the systems gives up, allowing the arm to elevate and dodge, getting back to its original position without stopping the tractor.

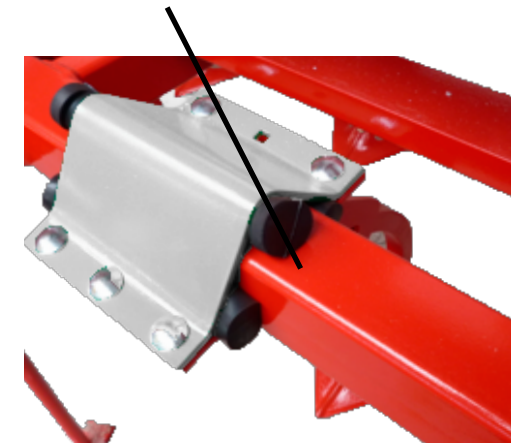
This way, every impact caued by uneven terrain will be absorbed by the security system, which protects the elements of the machine, and therefore, also the tractor.

For the same reason, "Non-Stop" security systems decrease the traction effort by avoiding the tractor to face all the obstacles by itself.

Note: OVLAC Non-Stop Security Systems are factory-regulated withn an optimum pressure for mid-hardness terrains.



Rubber shock absorbers



4.- Turn Up

4.1 - Adaptation to the tractor

OVLAC cultivators are designed to adapt to the universal 3-point linkage in any tractor. Before linking up the machine make sure of:

- Tractor' arms are regulated at the same height and length.
- Tractor' wheels must have the same pressure and adequate to the manufacturer rules.
- Tractor' arms must be centered with a little space for oscillating.

NOTE: WHEN THERE'S UNEVEN TERRAIN, THE SLIDERS OF THE ELEVATING ARMS OF THE TRACTOR CAN BE USED TO COPY THE TERRAIN.



4.2 - Alignment

The cultivator must work aligned with the tractor, if not, the plough will tend to abandon the working direction. Must check that the distance $A1=A2$ (Fig. 4).

On the cultivators, for the proper functioning of work levelling, is important to regulate and align correctly the lifting arms of the tractor with the cultivator and, if having a roller, along the arms, for a good depth control.

The 3rd link arm must be coupled in a way that the end that links over the cultivator remains slightly higher than the end linked on the tractor (Fig. 5).



Facing the tractor in downwards position

Fig. 5

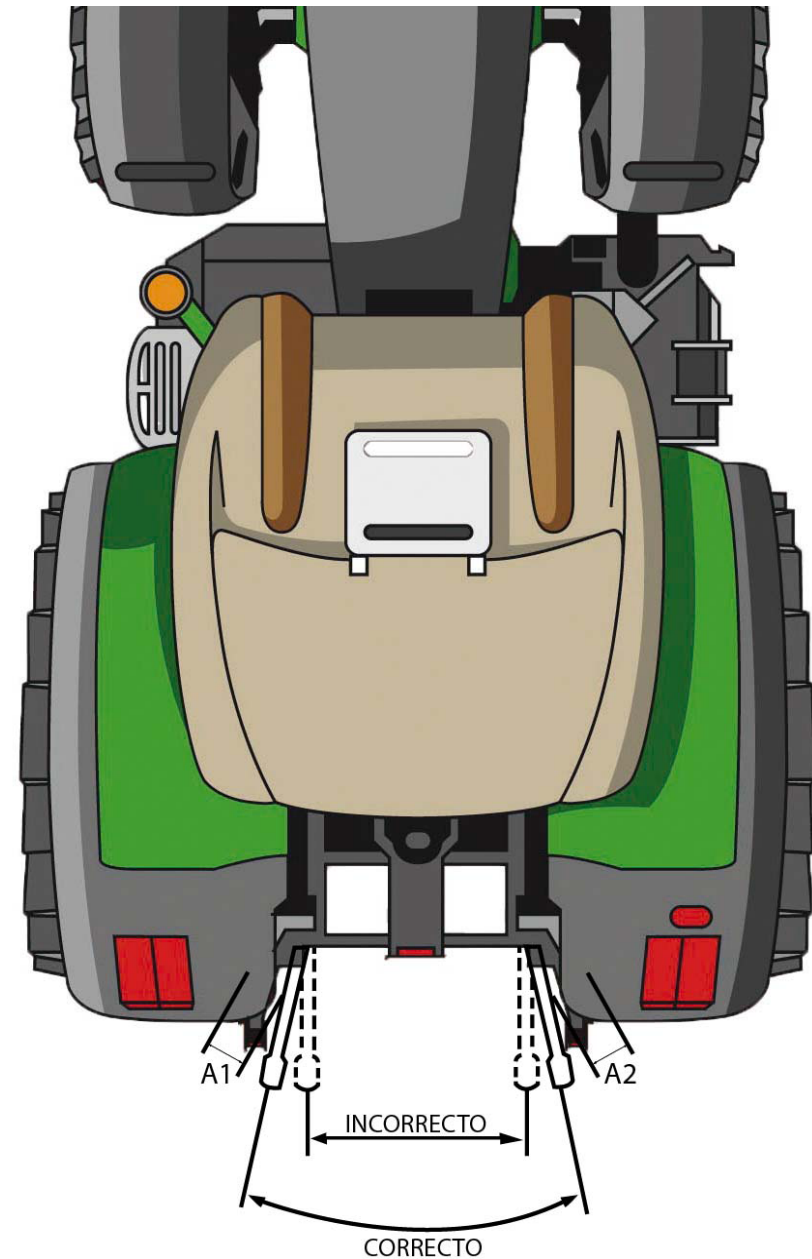


Fig. 4



4.3 - Other adjustments

The length of the 3rd point must be adjusted in a way that the frame adopts a parallel position to the ground, if not, the rows of arms will work at uneven depths, causing a wrong labor. (Fig. 6)

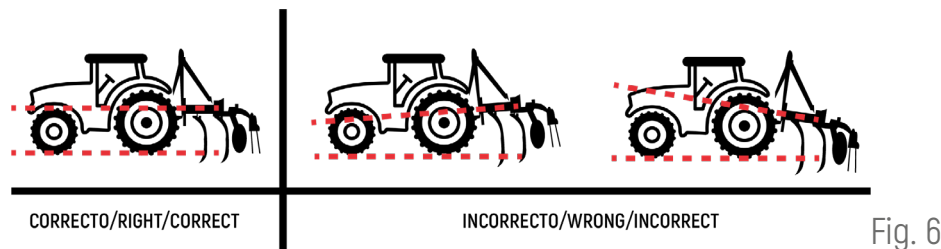


Fig. 6

For the same reason, is necessary for the tractor arms to be found at the same height, so the machine works at the same depth in its whole width (Fig. 7) and side triggers doesn't happen, so the tractor doesn't find it hard to keep its path. (Fig. 7)

IMPORTANT: Must try not totake curves while working, specially with very heavy machinery, since the pulling effort may cause severe damage to the machine's structure.

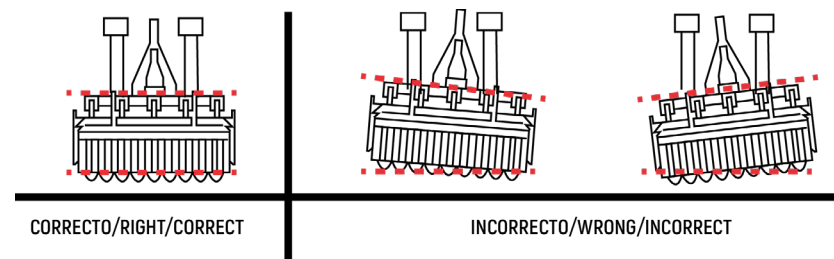


Fig. 7



5.- Working Depth

The working depth is regulated through the lifting pull of the tractor. Nevertheless, in order to achieve an even working depth, XLander can be equipped with:

- Limiting wheels whose height is regulated through bolts A (Fig.9). In order to ease this regulation, an excentric key is supplied with every XLander. (Fig.7)
- Roller adjustable in height through the bolts B (Fig.10). Bottom bolts regulate the working depth, while the upper bolts limit the fall of the maneuver in the headstock and in transport so we can avoid unnecessary hits.

In the XLander with harrow, the inclination it-s regulated through bolts C (Fig. 8)



Fig. 9



Fig. 7



Fig. 8



6.- Transport and parking

In the XLander with hydraulic folding, this will be retracted in order to ease the transportation, leaving the machine on its minimum width. (Fig. 10.)

2,5 m in foldable models up to 2-21/3-25 y 3m in models over 2-21 and 3-25 . Fig. 10.

The foldable XLanders can be equipped with parking pawns, which reduces the space used when we let them loose, if not you'd have to park them unfolded and with a single parking pawn. Fig. 11. **WARNING:** Before unfolding the cultivator for its working position, by using the hydraulic controller following the folding direction to assure that the hook is freed from the hydraulic security closure as indicated in the sticker (Fig. 12).

The XLander have included as standard an hydraulic closing for its transportation. When driving in public roads it's important to respect the codes of the driving regulations and install if necessary the signalling lights, which can be supplied optionally.



Fig. 10



Fig. 11

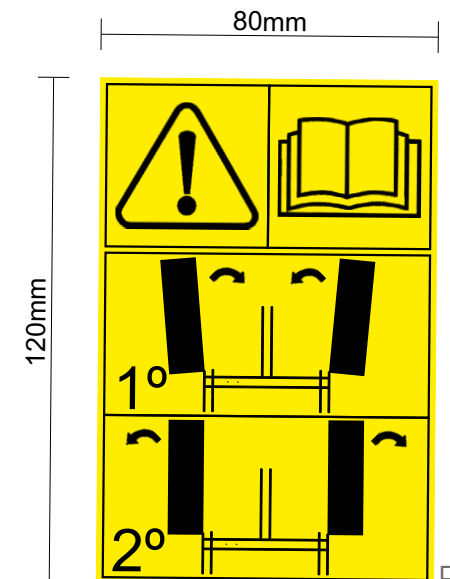


Fig. 12



7.- Maintenance

Must check how tighten the bolts are after the first 2 hours of labor, specially the ones on the bodies and shares. Afterwards, check every 100 hours of labor. When finishing the campaign, wash the plough and grease the bodies to avoid rust.

Lube: Greasing points must be greased up regularly.

Safe maintenance

Get familiar with the maintenance procedures before doing any labor. The working area must be clean and dry. Not doing any greasing labor, repair or adjustment while the engine is running. Keep the hands, feet, and clothes always far from the moving components. Place all the hydraulic controls on neutral-gear in order to relieve pressure. Lower all gear to the ground. All the components must be in good shape and correctly installed. Repair damage immediately. Change any wasted or broken piece. Keep all the components of the machine clean off of grease, oil and accumulated dirt. By dealing with trailed equipment, disconnecting the group of cables from the tractor before doing any welding on the machine.



Watch out for the high pressure leaks

Leaking fluids from the system might leak strong enough to tear flesh, causing severe injuries. Therefore, is indispensable to leave the system pressure-less before loosing or disconnecting any pipe and assure that all the connections and connectors are well-tighten before applying pressure to the system. In order to locate an hydraulic oil leak use a piece of cardboard placed in between the connections. Don't get near high-pressure leakings.

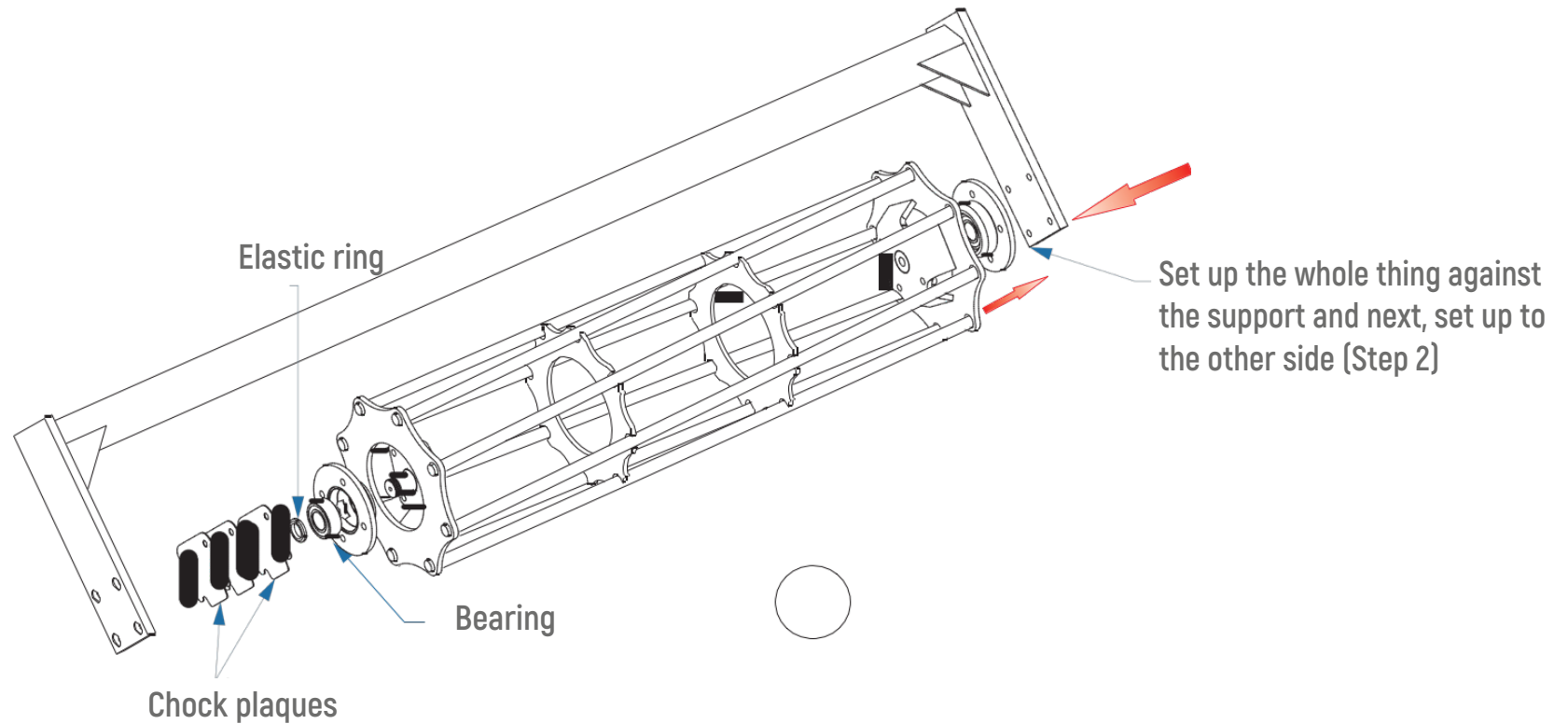
Even if after all this measures an accident happens, go immediately to see a doctor, who should remove the fluid surgically in a few hours in order to avoid gangrene. Unexperienced doctors with injuries of such nature may go to a specialized medical center.

Maintenance of hydraulic cylinders. **IMPORTANT:** keep the plugs clean. Abrasive particles, such as sand, metal sharps, may damage the cylinders, causing inner leaks. Once unplugged off the tractor, place the protection bolts and make sure they're not touching the ground.



7.- Maintenance

Instructions for the set-up of bearings in the rollers



1.- Fixate the axis to the bearing with the elastic rings.

2.- Set up over the support with an end of the roller up to the most.

3.- Afterwards, set up the other end with the plaques and bolts required. (Never force the outside plaques of the support to place the plaques, that would damage the life of the bearing)

8.- Optional equipment

Ovlac's XLANDER can be equipped with:

1. Tungsteno share point (Fig.13)
2. Signals (Fig.14)
3. 2 or 3 rows harrow(Fig.15)
4. Front wheels (Fig.16)
5. Rollers (Fig.17, 18, 19, 20, 21)
6. Knife harrow
7. Levelling leafspring harrow



Fig. 17



Fig. 18



Fig. 16



Fig. 13



Fig. 14



Fig. 15



9.- Spare parts

Spare parts orders must always be placed through dealers and will include the next indications:

- Type, model and plough's number of manufacturing. This data is indicated on the identification plate of the plough.
- Reference of the piece. Indicated on the spareparts catalogue.
- Name of the piece and quantity required.
- Method of shipping. Transport expenses run of the purchaser.
- NOTE: The terms left or right, indicated on the name, are meant to be understood always facing the plough from its rear view. When it comes to supposed-to-break gear, rights are considered ll those that are part of the body that drifts to the righth and viceversa.
- Note on warranty: must be clearly specified if the spare parts order are ordered under warranty time. The manufacturer will be the one to decide if the order stands to warranty or not when replacing the pieces. Plus, warranty loses all its value if:
 - Repairs Unauthorized by the manufacturer are made, unoriginal spare parts and bolts are inadequate.
 - User goes through the power limit stated on the technical data sheet, or abnormal maneuvers are made.





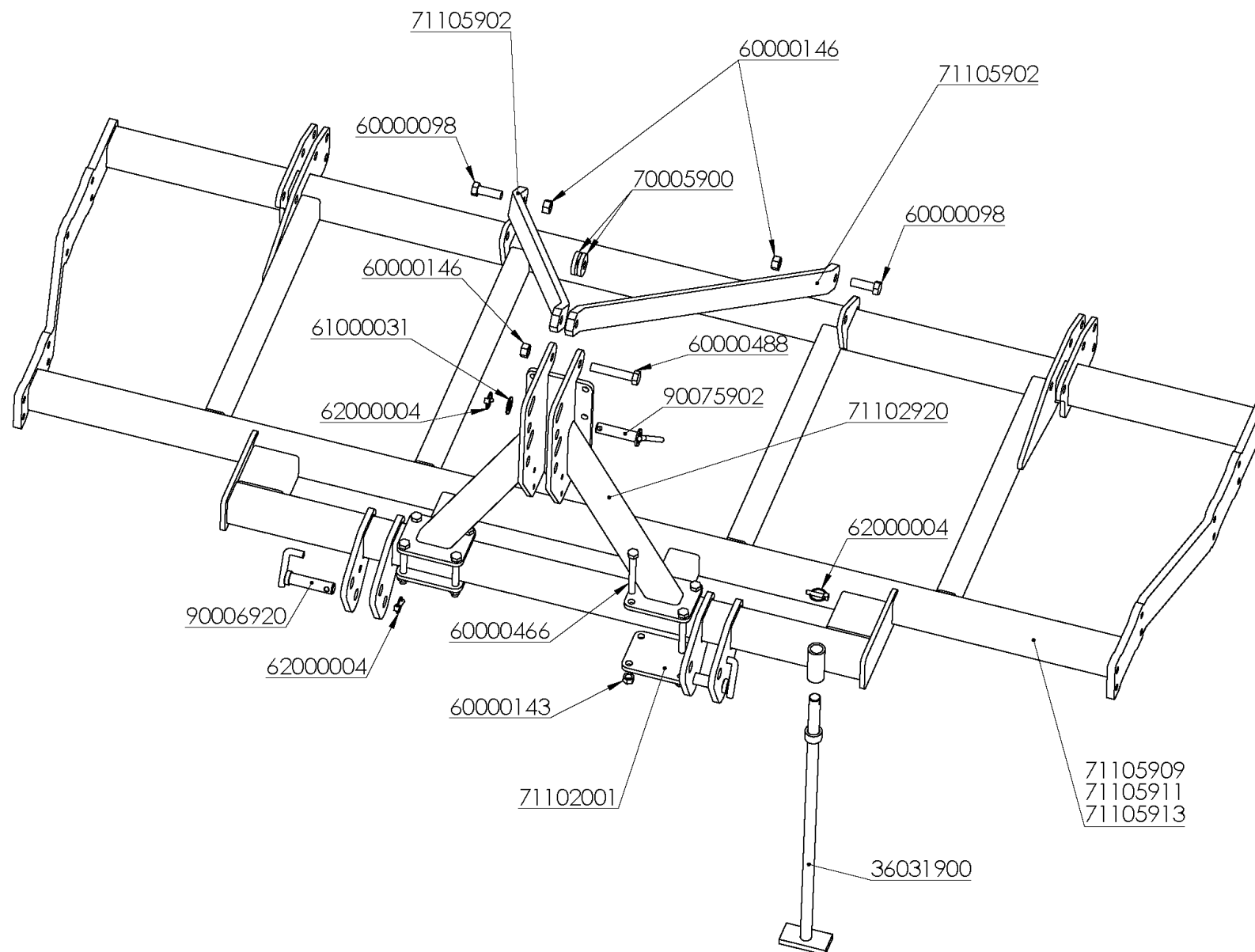
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FRAME FIX 2F

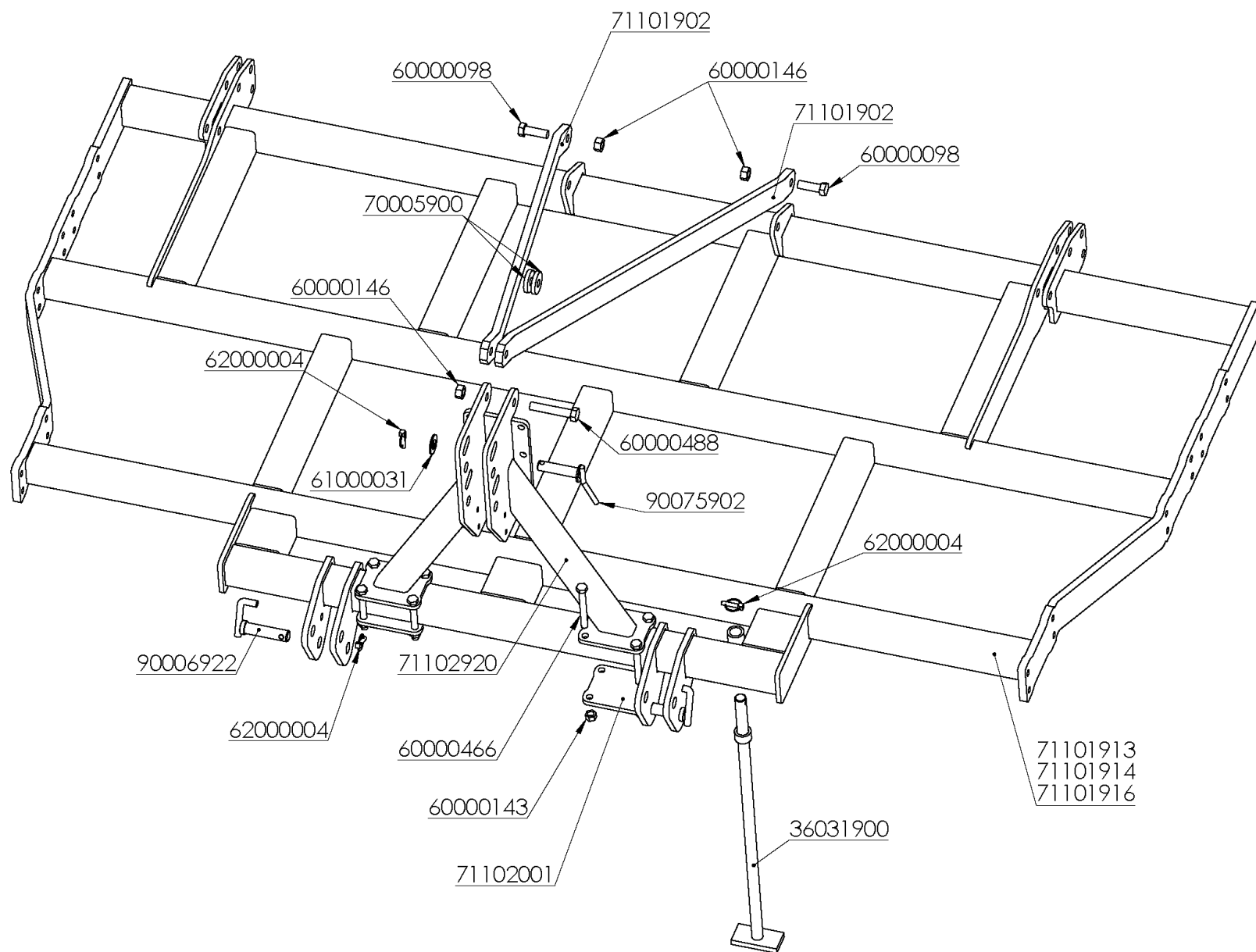


FRAME FIX 2F

REFERENCIA	DESCRIPCIÓN
36031900	PEON MINI/MCH-35
60000098	TORN.EXAG.DIN-931 20* 60 8.8
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000466	TORN.EXAG.DIN-931 16*130 12.9 ZINC.
60000488	TORN.EXAG.C/LAR.20*115 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000004	PASADOR ANILLA 10 ZINC.
70005900	ARAND.RFZO.D= 58*21 E-9,5mm.
71102001	PLACA AMARRE TORRETA MCH (D/17)
71102920	TORRETA MCH FIJO (D/17)
71105902	TIRANTE MCH-2-11 (D/17)
71105909	BAST.MCH-2-9-V (D/17)
71105911	BAST.MCH-2-11-V (D/17)
71105913	BAST.MCH-2-13-V (D/17)
90006920	BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV
90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.



FRAME FIX

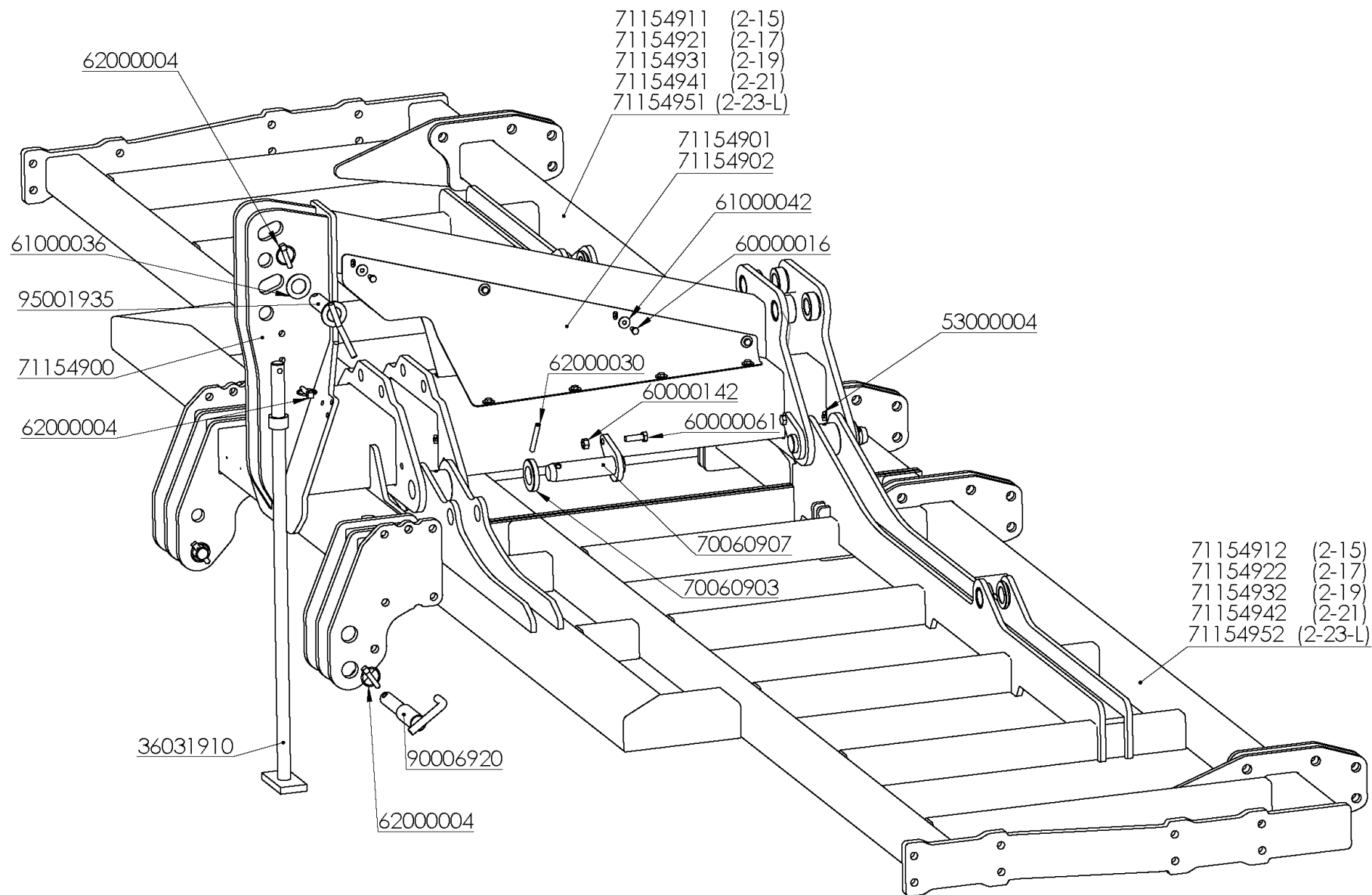


FRAME FIX

REFERENCIA	DESCRIPCIÓN
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60000098	TORN.EXAG.DIN-931 20* 60 8.8
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000466	TORN.EXAG.DIN-931 16*130 12.9 ZINC.
60000488	TORN.EXAG.C/LAR.20*115 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000004	PASADOR ANILLA 10 ZINC.
70005900	ARAND.RFZO.D= 58*21 E-9,5mm.
71101902	TIRANTE MCH-3-13 (D/17)
71101913	BAST.MCH-3-13 (D/17)
71101914	BAST.MCH-3-14-V (D/17)
71101916	BAST.MCH-3-16-V (D/17)
71102001	PLACA AMARRE TORRETA MCH (D/17)
71102920	TORRETA MCH FIJO (D/17)
90006922	BULON D=36/28*124mm.ENGANCHE MCH CAT-II
90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.



FRAME MCH-2 PV LIGHT

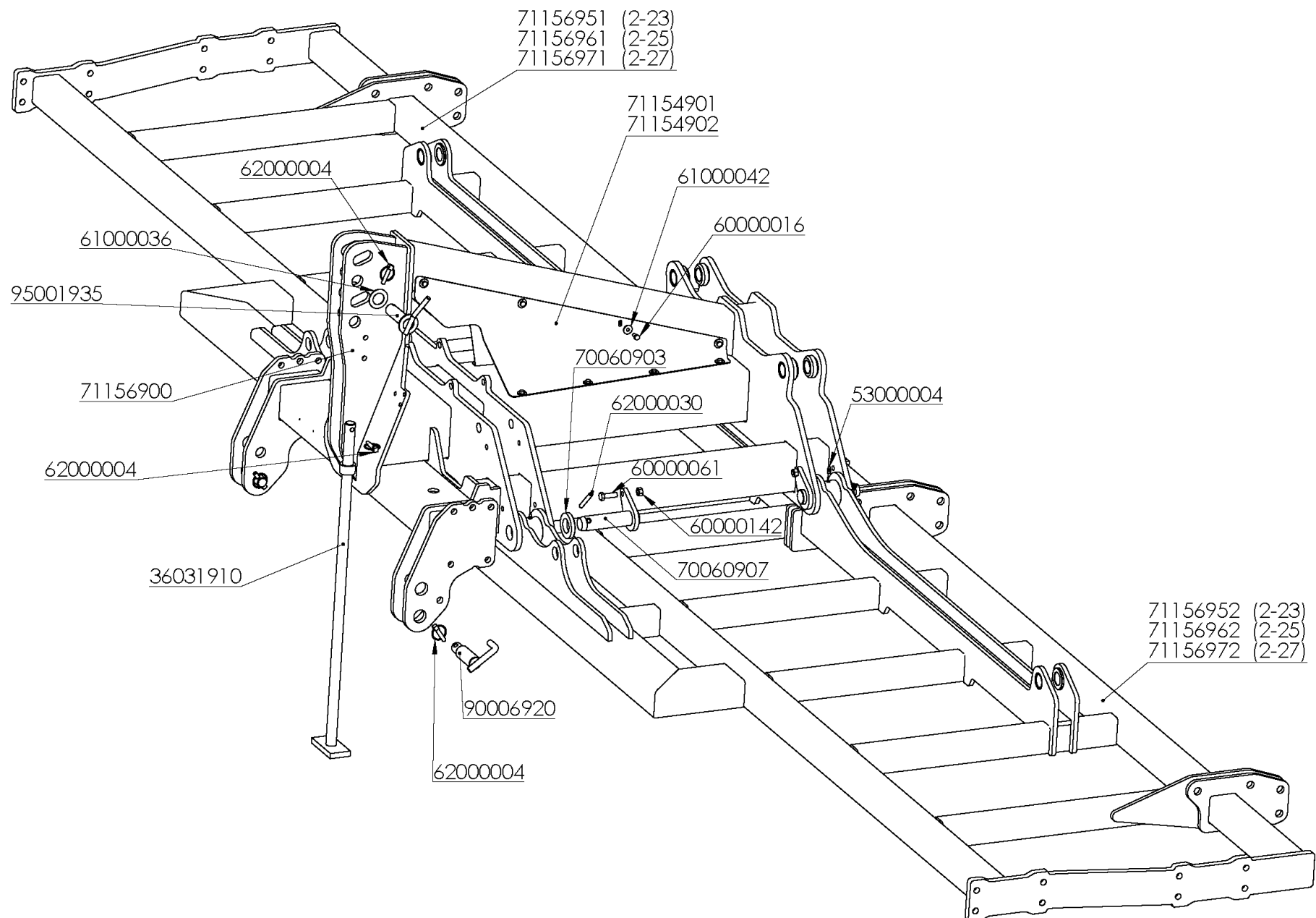


FRAME MCH-2 PV LIGHT

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53000004	ENGRASADOR AC° DIN-71412 8*125	71154911	BAST.LATERAL DCH. MCH-2-15 P.V. (D/17)
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61000042	ARAND.DIN-9021 8 ZINC.	71154932	BAST.LATERAL IZQDO. MCH-2-19 P.V. (D/17)
62000004	PASADOR ANILLA 10 ZINC.	71154941	BAST.LATERAL DCH. MCH-2-21 P.V. (D/17)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	71154942	BAST.LATERAL IZQDO. MCH-2-21 P.V. (D/17)
70060903	ARAND.P/BULON PLEG.CH/MCH/DISC	71154951	BAST.LATERAL DCH. MCH-2-23 P.V. LIGERO(D/17)
70060907	BULON D=40*171mm. PLEGADO MCH (D/17)	71154952	BAST.LATERAL IZQDO. MCH-2-23 P.V. LIGERO(D/17)
71154900	BAST.CENTRAL MCH-2 P.V. (D/18)	90006920	BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV
71154901	EMBELLECEDOR DCHO.MCH-2	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)



FRAME MCH-2 PV HEAVY

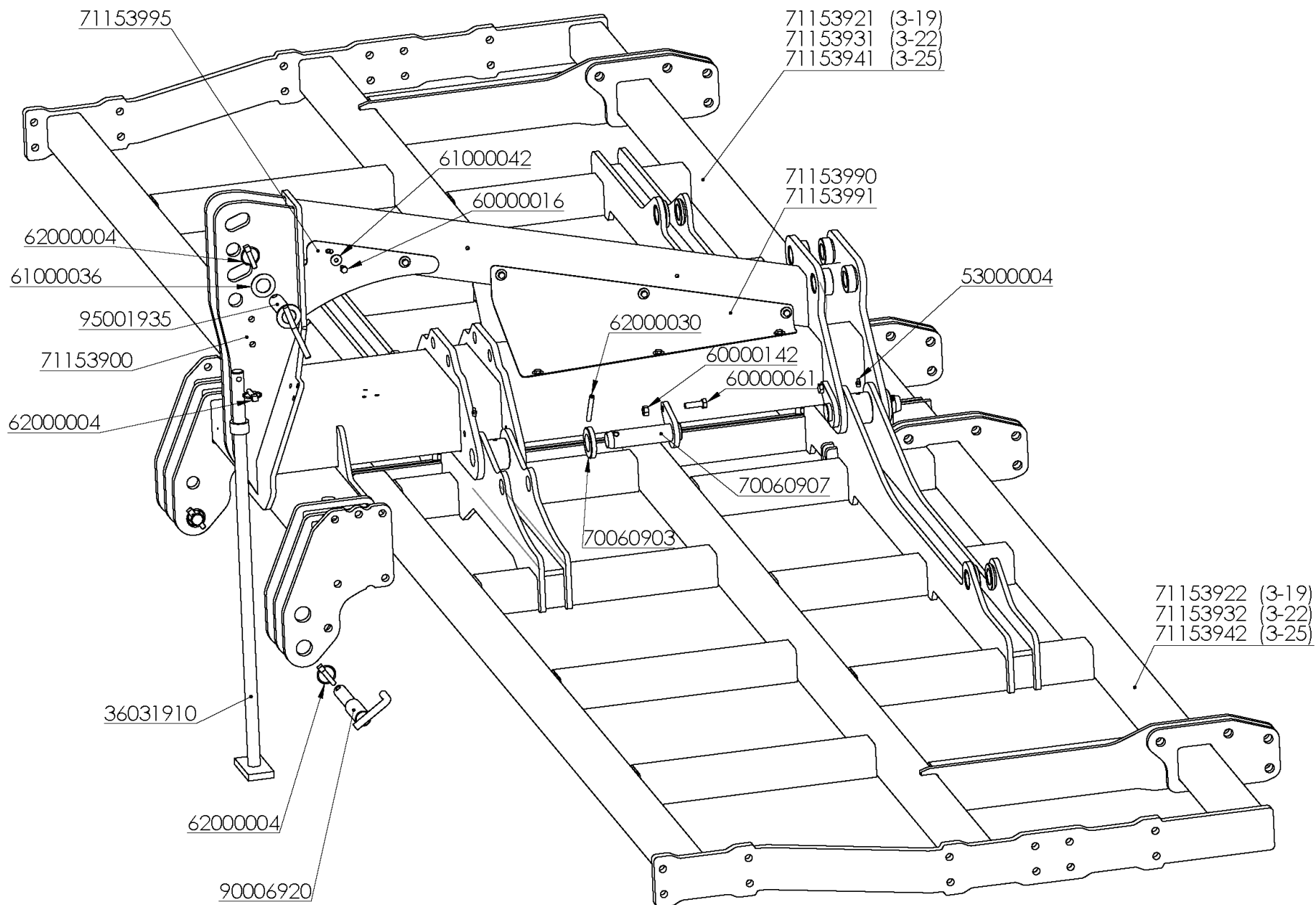


FRAME MCH-2 PV HEAVY

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53000004	ENGRASADOR AC° DIN-71412 8*125	71154902	EMBELLECEDOR IZQDO.MCH-2
60000016	TORN.EXAG.DIN-933 8* 16 8.8 ZINC.	71156900	BAST.CENTRAL MCH-2 P.V.PESADO
60000061	TORN.EXAG.DIN-933 12* 40 8.8 ZINC.	71156951	BAST.LATERAL DCH. MCH-2-23 P.V.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	71156952	BAST.LATERAL IZQDO. MCH-2-23 P.V.
61000036	ARAND.ESTANDAR-A 32 ZINC.	71156961	BAST.LATERAL DCH. MCH-2-25 P.V.
61000042	ARAND.DIN-9021 8 ZINC.	71156962	BAST.LATERAL IZQDO. MCH-2-25 P.V.
62000004	PASADOR ANILLA 10 ZINC.	71156971	BAST.LATERAL DCH. MCH-2-27 P.V.
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	71156972	BAST.LATERAL IZQDO. MCH-2-27 P.V.
70060903	ARAND.P/BULON PLEG.CH/MCH/DISC	90006920	BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV
70060907	BULON D=40*171mm. PLEGADO MCH (D/17)	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)



FRAME MCH-3 PV LIGHT

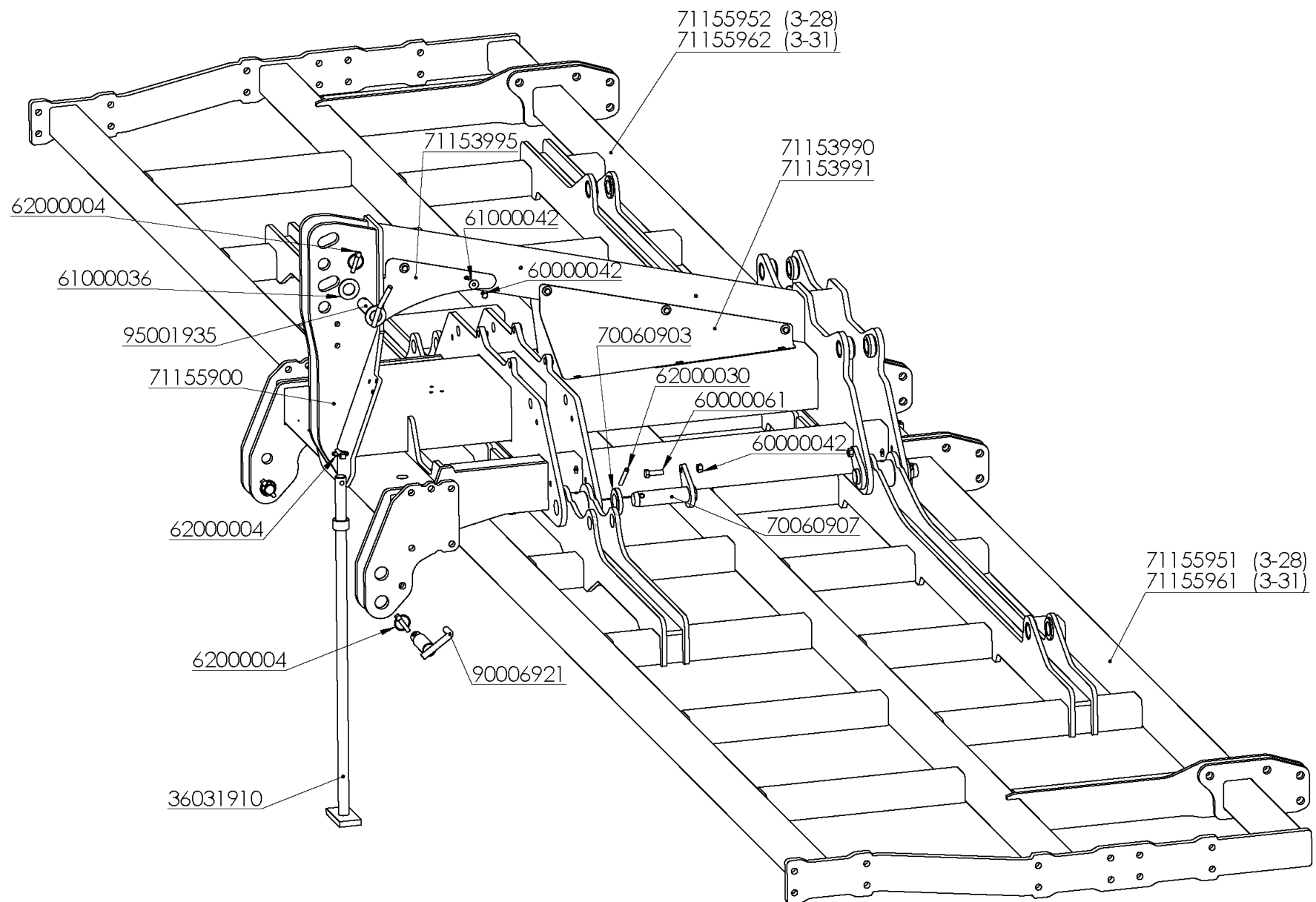


FRAME MCH-3 PV LIGHT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
36031910	PEON MCH-18	71153921	BAST.LATERAL DCH. MCH-3-19 P.V. (D/17)
53000004	ENGRASADOR AC° DIN-71412 8*125	71153922	BAST.LATERAL IZQ. MCH-3-19 P.V. (D/17)
60000016	TORN.EXAG.DIN-933 8* 16 8.8 ZINC.	71153931	BAST.LATERAL DCH. MCH-3-22 P.V. (D/17)
60000061	TORN.EXAG.DIN-933 12* 40 8.8 ZINC.	71153932	BAST.LATERAL IZQ. MCH-3-22 P.V. (D/17)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	71153941	BAST.LATERAL DCH. MCH-3-25 P.V. (D/17)
61000036	ARAND.ESTANDAR-A 32 ZINC.	71153942	BAST.LATERAL IZQ. MCH-3-25 P.V. (D/17)
61000042	ARAND.DIN-9021 8 ZINC.	71153990	PLACA EMBELLECEDOR DCHO. MCH-3-PV (D/18)
62000004	PASADOR ANILLA 10 ZINC.	71153991	PLACA EMBELLECEDOR IZQ. MCH-3-PV (D/18)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	71153995	PLACA EMBELLECEDOR SUP. MCH-3-PV (D/18)
70060903	ARAND.P/BULON PLEG.CH/MCH/DISC	90006920	BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV
70060907	BULON D=40*171mm. PLEGADO MCH (D/17)	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)
71153900	BAST.CENTRAL MCH-3 P.V. (D/17)		



FRAME MCH-3 PV HEAVY

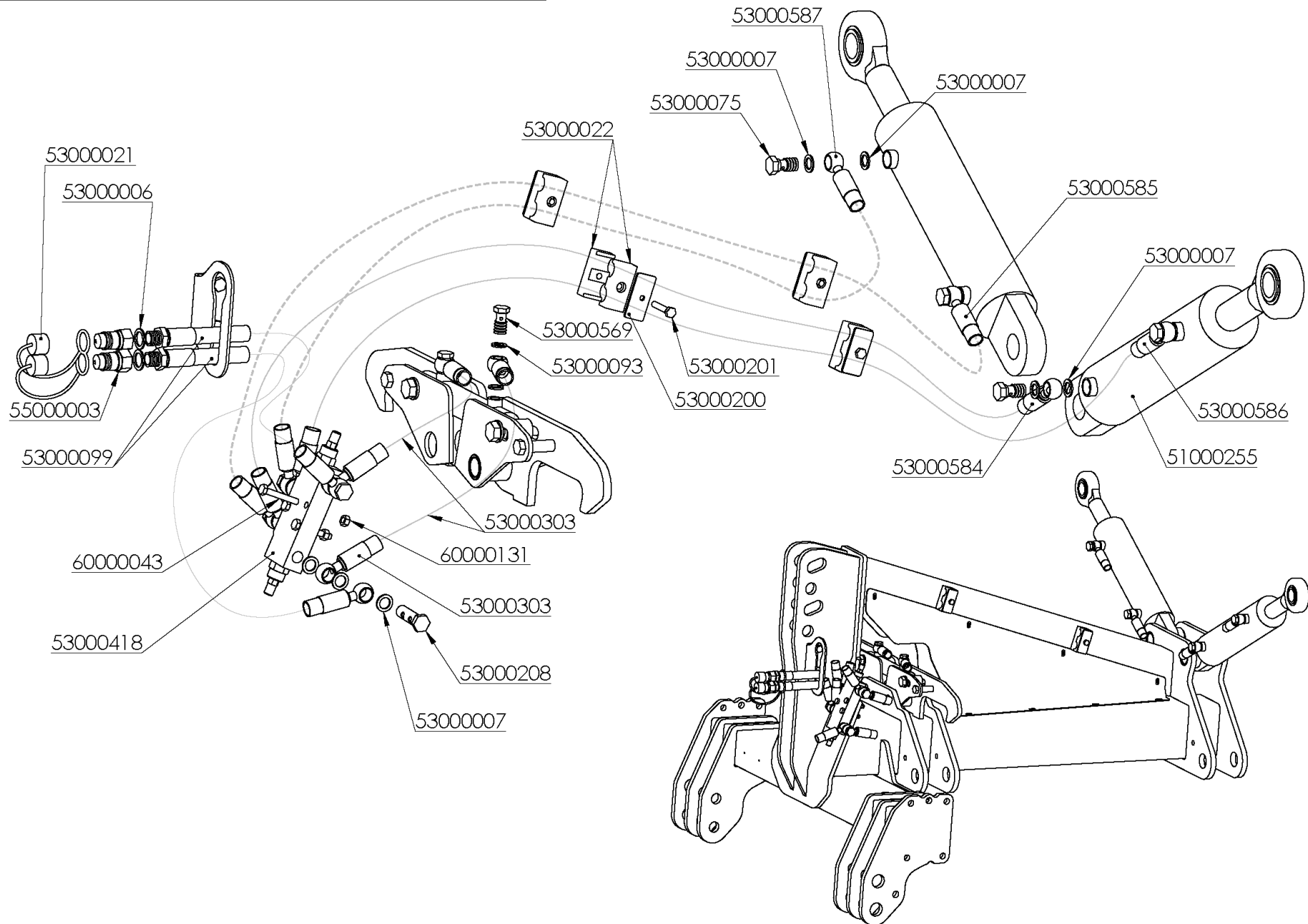


FRAME MCH-3 PV HEAVY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
36031910	PEON MCH-18	71153990	PLACA EMBELLECEDOR DCHO. MCH-3-PV (D/18)
60000042	TORN.EXAG.DIN-933 8* 30 8.8 ZINC.	71153991	PLACA EMBELLECEDOR IZQ. MCH-3-PV (D/18)
60000061	TORN.EXAG.DIN-933 12* 40 8.8 ZINC.	71153995	PLACA EMBELLECEDOR SUP. MCH-3-PV (D/18)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	71155900	BAST.CENTRAL MCH-3 P.V.PESADO
61000036	ARAND.ESTANDAR-A 32 ZINC.	71155951	BAST.LATERAL DCH. MCH-3-28 P.V. (D/17)
61000042	ARAND.DIN-9021 8 ZINC.	71155952	BAST.LATERAL IZQDO. MCH-3-28 P.V. (D/17)
62000004	PASADOR ANILLA 10 ZINC.	71155961	BAST.LATERAL DCH. MCH-3-31 P.V. (D/17)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	71155962	BAST.LATERAL IZQDO. MCH-3-31 P.V. (D/17)
70060903	ARAND.P/BULON PLEG.CH/MCH/DISC	90006921	BULON D=36/28*124mm.ENG.EURODISC/VBC/MCH-III
70060907	BULON D=40*171mm. PLEGADO MCH (D/17)	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)



HYDRAULIC SYSTEM MCH-2-PV LIGHT

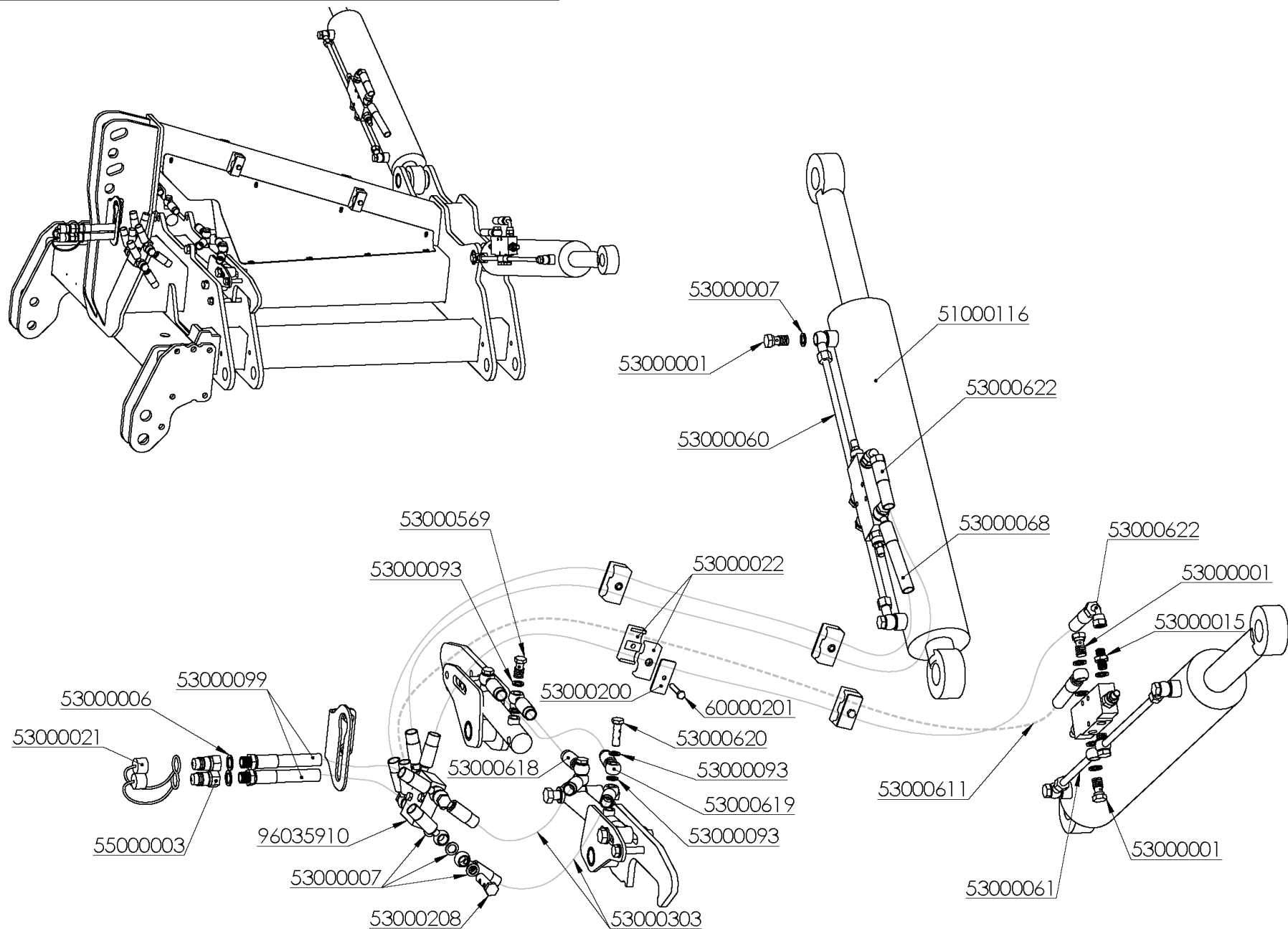


HYDRAULIC SYSTEM MCH-2-PV LIGHT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000255	CILIND.PLEG.MCH 45/90/420 (D/18)	53000303	LATIG.R2-1/4*400mm.OR-3/8/OR-1/4
53000006	JUNTA METAL/GOMA 1/2" 11603	53000418	VALV.OVERCENTER VBCD 3/8 DE-A V0422
53000007	JUNTA METAL/GOMA 3/8" 11602	53000569	TORNILLO SIMPLE 1/4
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR	53000584	LATIG.R2-3/8*1370mm.OR/OR-3/8
53000022	ABRAZ.DOBLE D=19mm. 1D19PP	53000585	LATIG.R2-3/8*1400mm.OR/OR-3/8
53000075	TORNILLO SIMPLE 3/8 REDUCTOR 4022-T	53000586	LATIG.R2-3/8*1920mm.OR/OR-3/8
53000093	JUNTA METAL GOMA 1/4" 11601	53000587	LATIG.R2-3/8*1950mm.OR/OR-3/8
53000099	LATIG.R2-3/8*1500mm.MF-1/2/OR-3/8	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000200	PLACA RFZO.AB.DOBLE 19 GD3D	60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.
53000201	PLACA RFZO.AB.SIMPLE 15/18 DP2	60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
53000208	TORNILLO DOBLE 3/8" 4032		



HYDRAULIC SYSTEM MCH-2-PV HEAVY

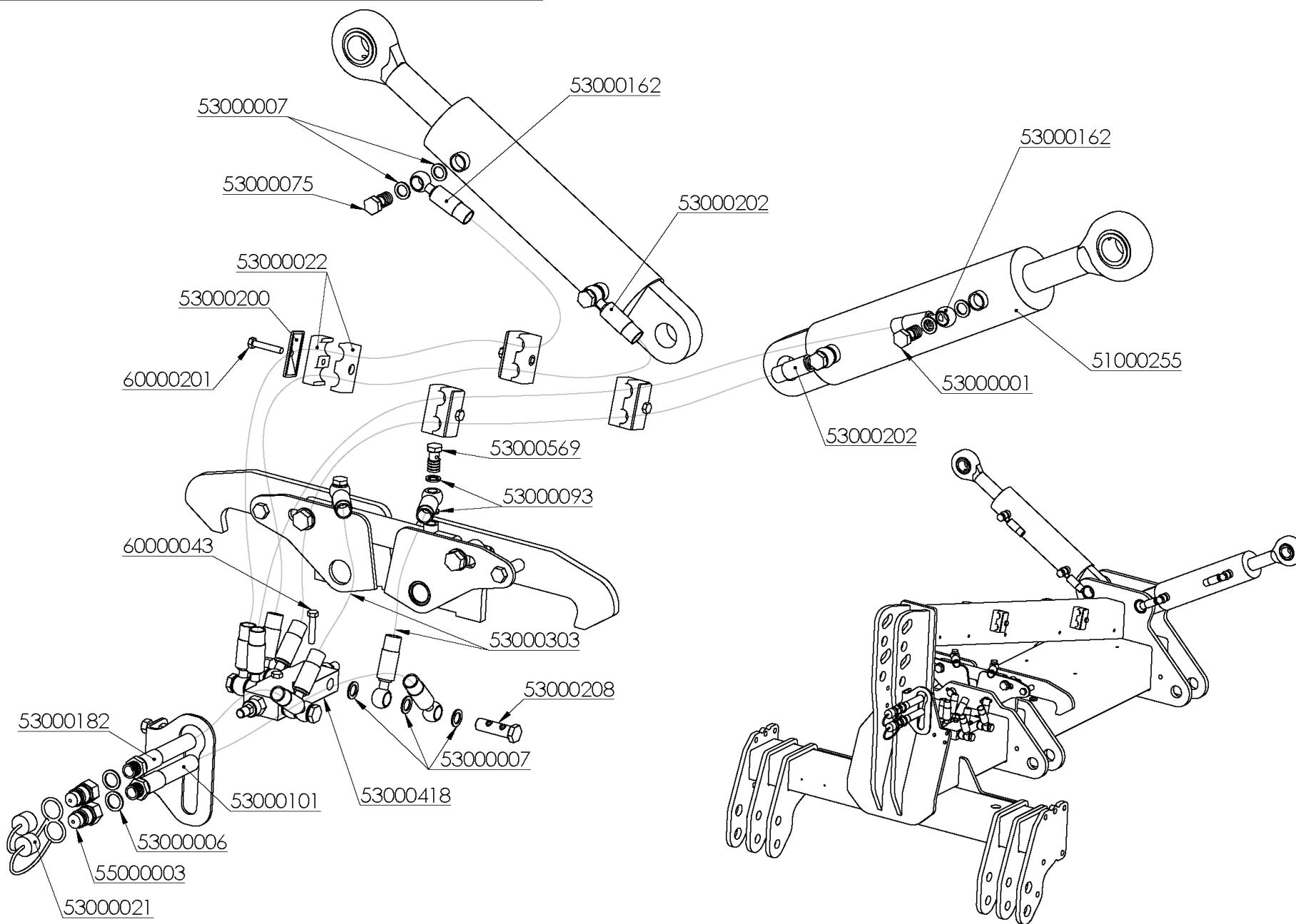


HYDRAULIC SYSTEM MCH-2-PV HEAVY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000116	CILIND.PLEG.MCH/DISC/FENIX 50/100/500	53000200	PLACA RFZO.AB.DOBLE 19 GD3D
53000001	TORNILLO SIMPLE 3/8 4022	53000208	TORNILLO DOBLE 3/8" 4032
53000006	JUNTA METAL/GOMA 1/2" 11603	53000303	LATIG.R2-1/4*400mm.OR-3/8/OR-1/4
53000007	JUNTA METAL/GOMA 3/8" 11602	53000569	TORNILLO SIMPLE 1/4
53000015	UNION MACHO 3/8 4062	53000611	LATIG.R2-3/8*1600mm.OR/OR-3/8
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR	53000618	LATIG.R2-1/4*380mm.OR-1/4/OR-1/4
53000022	ABRAZ.DOBLE D=19mm. 1D19PP	53000619	LATIG.R2-1/4*580mm.OR-1/4/OR-1/4
53000060	ESFERICO 3/8" TUBO 12mm.LG=400 4002E-400	53000620	TORNILLO DOBLE 1/4" 4031
53000061	ESFERICO 3/8" TUBO 12mm.LG=200 4002E-200	53000622	LATIG.R2-3/8*1900mm.OR-3/8/CTL-3/8
53000068	LATIG.R2-3/8*1650mm.OR/OR-3/8	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000093	JUNTA METAL GOMA 1/4" 11601	60000201	TORN.EXAG.DIN-931 8* 45 8.8 ZINC.
53000099	LATIG.R2-3/8*1500mm.MF-1/2/OR-3/8	96035910	SOP.TOMAS HIDRAULICAS MCH PV PESADO ZINC.



HYDRAULIC SYSTEM MCH-3-PV LIGHT

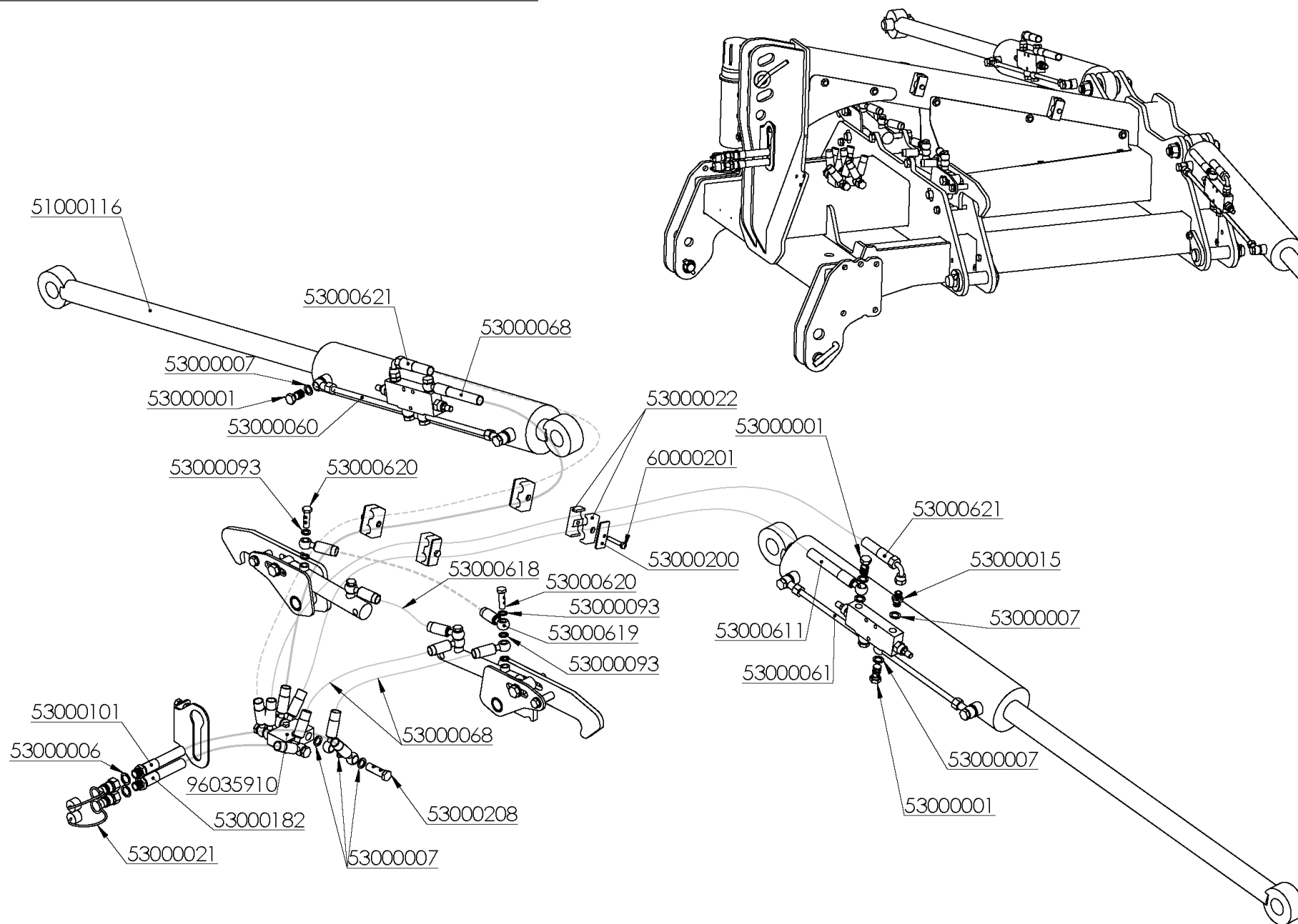


HYDRAULIC SYSTEM MCH-3-PV LIGHT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000255	CILIND.PLEG.MCH 45/90/420 (D/18)	53000182	LATIG.R2-3/8*1700mm.MF-1/2/OR-3/8
53000001	TORNILLO SIMPLE 3/8 4022	53000200	PLACA RFZO.AB.DOBLE 19 GD3D
53000006	JUNTA METAL/GOMA 1/2" 11603	53000202	LATIG.R2-3/8*1300mm.OR/OR-3/8
53000007	JUNTA METAL/GOMA 3/8" 11602	53000208	TORNILLO DOBLE 3/8" 4032
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR	53000418	VALV.OVERCENTER VBCD 3/8 DE-A V0422
53000022	ABRAZ.DOBLE D=19mm. 1D19PP	53000569	TORNILLO SIMPLE 1/4
53000075	TORNILLO SIMPLE 3/8 REDUCTOR 4022-T	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000093	JUNTA METAL GOMA 1/4" 11601	60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.
53000101	LATIG.R2-3/8*1600mm.MF-1/2/OR-3/8	60000201	TORN.EXAG.DIN-931 8* 45 8.8 ZINC.
53000162	LATIG.R2-3/8*1900mm.OR/OR-3/8		



HYDRAULIC SYSTEM MCH-3-PV HEAVY

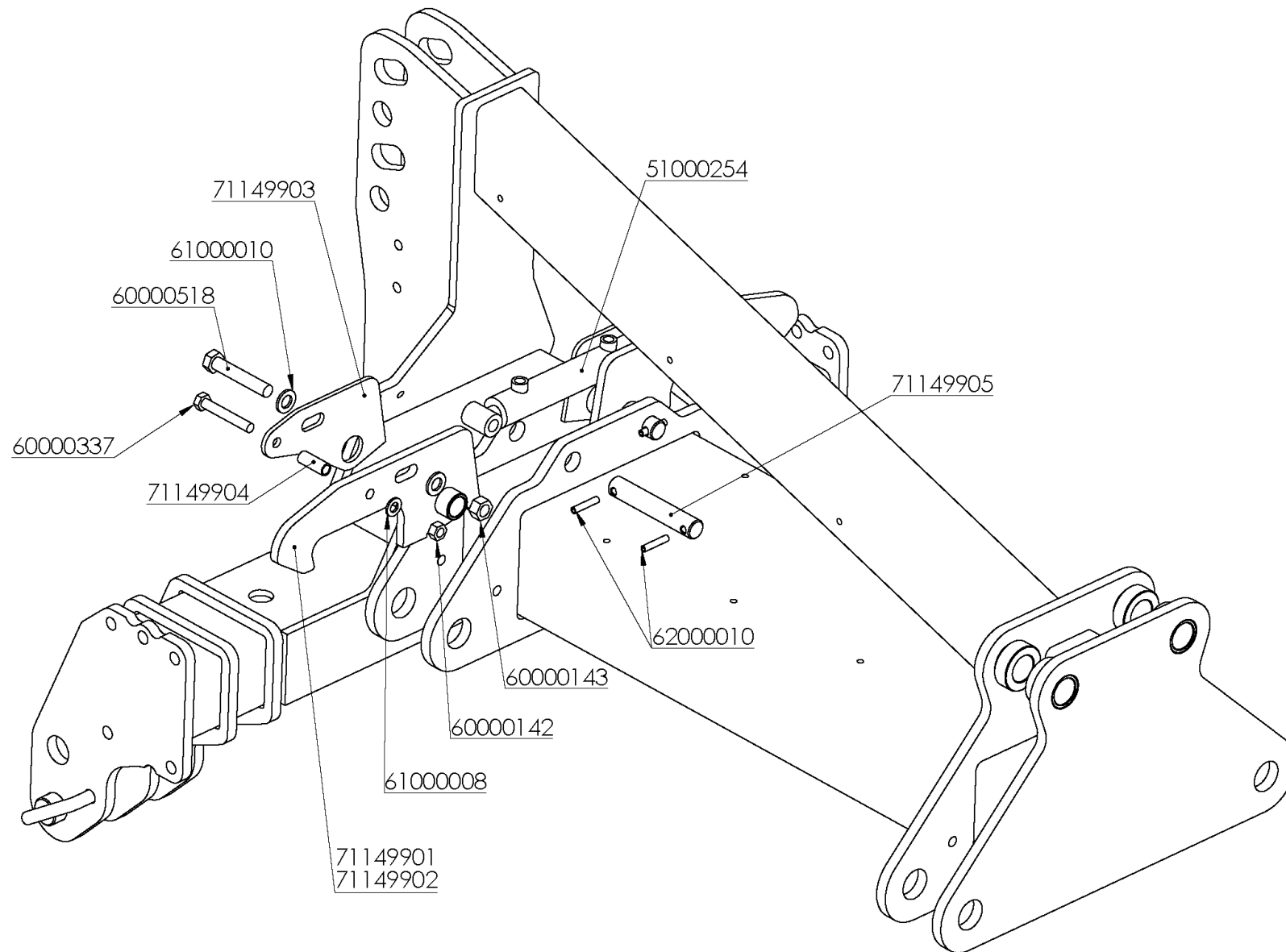


HYDRAULIC SYSTEM MCH-3-PV HEAVY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000116	CILIND.PLEG.MCH/DISC/FENIX 50/100/500	53000101	LATIG.R2-3/8*1600mm.MF-1/2/OR-3/8
53000001	TORNILLO SIMPLE 3/8 4022	53000182	LATIG.R2-3/8*1700mm.MF-1/2/OR-3/8
53000006	JUNTA METAL/GOMA 1/2" 11603	53000200	PLACA RFZO.AB.DOBLE 19 GD3D
53000007	JUNTA METAL/GOMA 3/8" 11602	53000208	TORNILLO DOBLE 3/8" 4032
53000015	UNION MACHO 3/8 4062	53000611	LATIG.R2-3/8*1600mm.OR/OR-3/8
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR	53000618	LATIG.R2-1/4*380mm.OR-1/4/OR-1/4
53000022	ABRAZ.DOBLE D=19mm. 1D19PP	53000619	LATIG.R2-1/4*580mm.OR-1/4/OR-1/4
53000060	ESFERICO 3/8" TUBO 12mm.L=400 4002E2	53000620	TORNILLO DOBLE 1/4" 4031
53000061	ESFERICO 3/8" TUBO 12mm.L=200	53000621	LATIG.R2-3/8*1830mm.OR-3/8/CTL-3/8
53000068	LATIG.R2-3/8*1650mm.OR/OR-3/8	60000201	TORN.EXAG.DIN-931 8* 45 8.8 ZINC.
53000093	JUNTA METAL GOMA 1/4 11601	96035910	SOP.TOMAS HIDRAULICAS MCH PV PESADO ZINC.



AUTOMATIC LOCK LIGHT

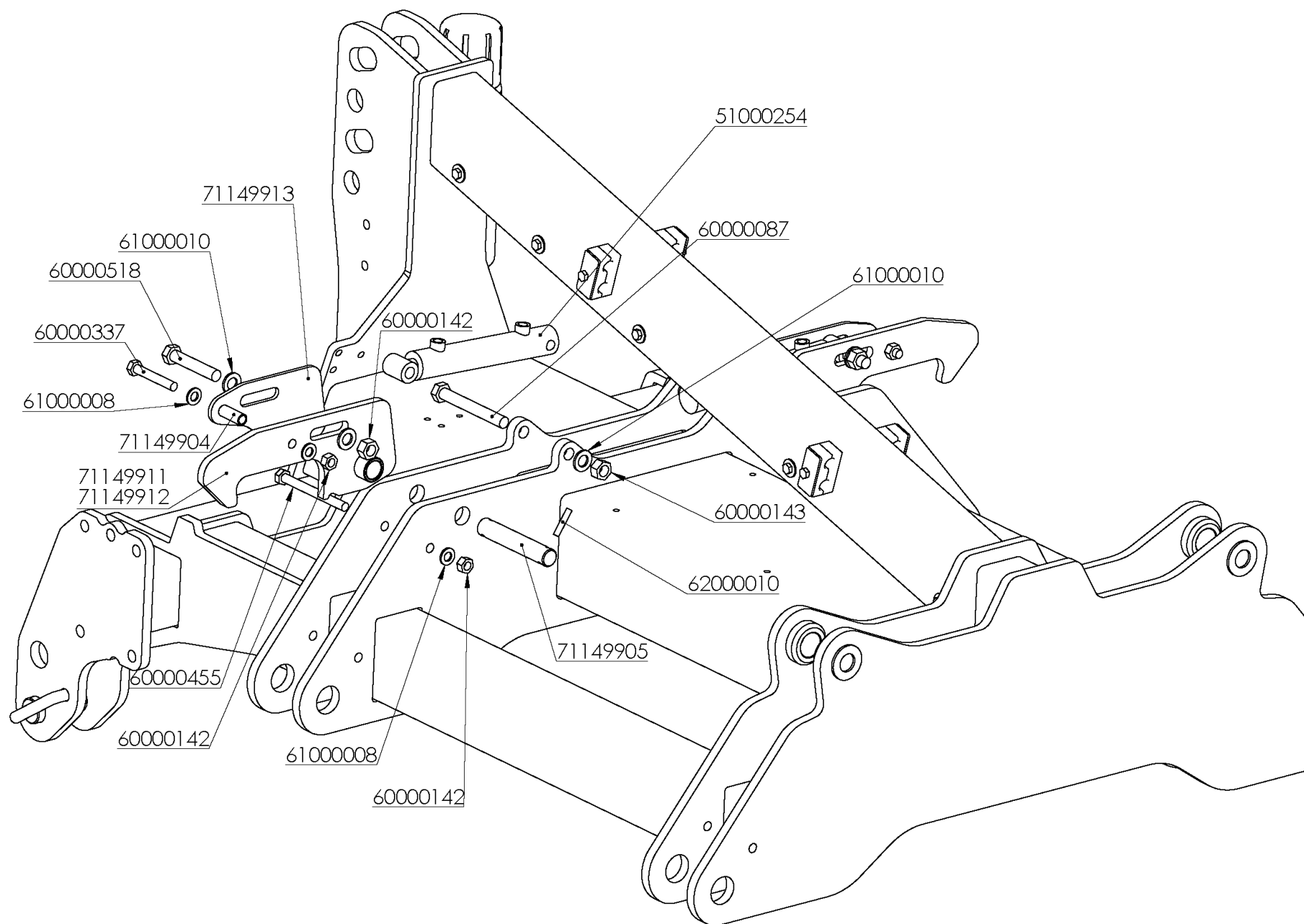


AUTOMATIC LOCK LIGHT

REFERENCIA	DESCRIPCIÓN
51000254	CILINDRO ESTÁNDAR D.E. 20/32/50
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.
60000518	TORN.EXAG.DIN-931 16* 90 8.8 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
61000010	ARAND.DIN-125 16 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
71149901	GANCHO TRANQUE DCH. MCH P.V.
71149902	GANCHO TRANQUE IZQ. MCH P.V.
71149903	PLACA APOYO GANCHO TRANQUE MCH P.V.
71149904	SEP.TUBO 18*14*41mm.
71149905	BULON D=25*142mm.GANCHO TRANQUE MCH ZN.



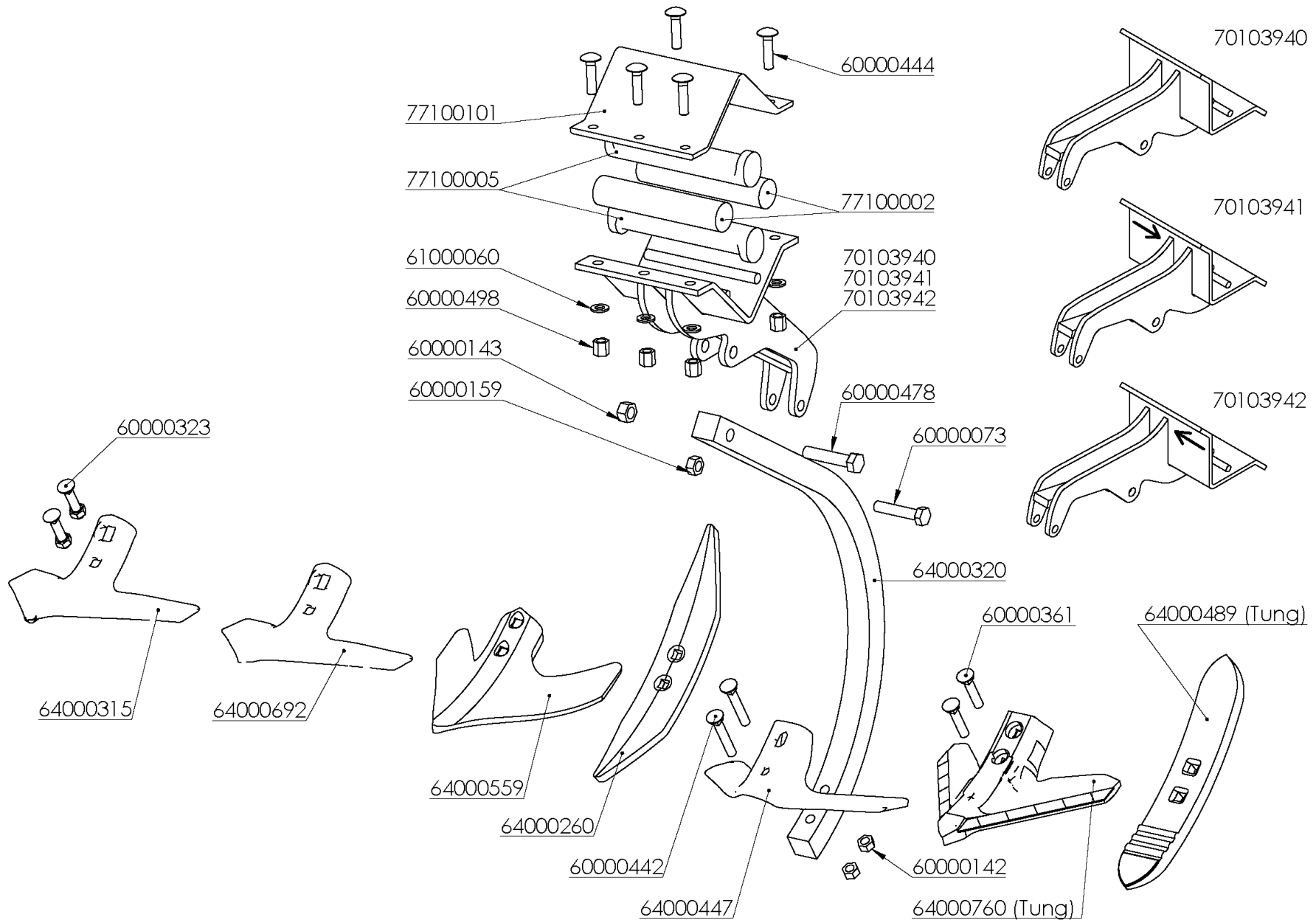
AUTOMATIC LOCK HEAVY



AUTOMATIC LOCK HEAVY

REFERENCIA	DESCRIPCIÓN
51000254	CILINDRO ESTÁNDAR D.E. 20/32/50
60000087	TORN.EXAG.DIN-931 16*130 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.
60000455	TORN.EXAG.DIN-931 12*130 8.8 ZINC.
60000518	TORN.EXAG.DIN-931 16* 90 8.8 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
61000010	ARAND.DIN-125 16 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
71149904	SEP.TUBO 18*14*41mm.
71149905	BULON D=25*142mm.GANCHO TRANQUE MCH ZN.
71149911	GANCHO TRANQUE DCH. MCH P.V.PESADO
71149912	GANCHO TRANQUE IZQ. MCH P.V.PESADO
71149913	PLACA APOYO GANCHO TRANQUE MCH P.V.PESADO

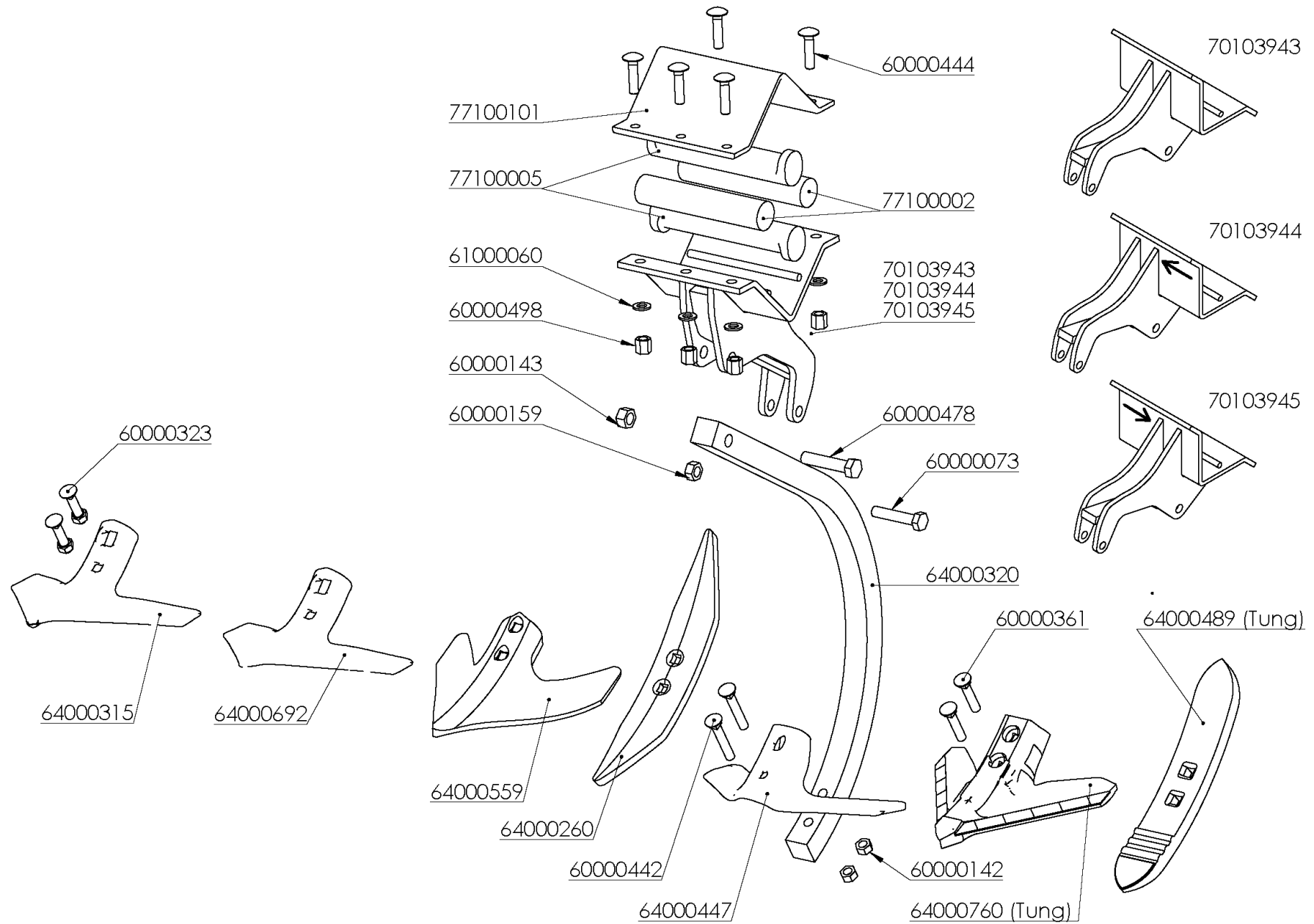






REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000073	TORN.EXAG.DIN-931 14* 70 8.8 ZINC.	64000320	BRAZO CHISEL 35*35 (T.H.)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	64000447	ALETA MCH 1506
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	64000489	REJA MCH CAVADORA (360x60x20) CON TUNGSTENO Y APOR
60000159	TUER.EXAG.DIN-934 14 8.8 ZINC.	64000559	REJA MCH 285x8 GOLONDRINA C/N
60000323	TORN.ARADO DIN-608/934 12*60 8.8	64000692	REJA MCH C-6 GOLONDRINA CN 7mm. BORO (LP)
60000361	TORN.ARADO DIN-608 12*60 12.9	64000760	REJA MCH 285x8 GOLONDRINA C/N TUNGSTENO
60000442	TORN.ARADO DIN-608 12*75 12.9	70103940	AMARRE MCH TH (B/35)
60000444	TORN.ARADO DIN-603 12*50 10.9 ZINC.	70103941	AMARRE MCH DCH.TH (B/35)
60000478	TORN.EXAG.C/LAR. 16* 75 10.9 ZINC.	70103942	AMARRE MCH IZQD.TH (B/35)
60000498	TUER.ABARCON DIN-6330B 12 10.9 ZINC.	77100002	SUSPENSION ELASTICA D=40*200mm.
61000060	ARAND.DIN-125 300HV 12 ZINC.	77100005	SUSPENSION ELASTICA D=40*226mm.C/RESALTE
64000260	REJA MCH 1537-B CAVADORA	77100101	PLACA SUP.AMARRE MCH
64000315	REJA MCH C-6 GOLONDRINA CN-8 FUND.		



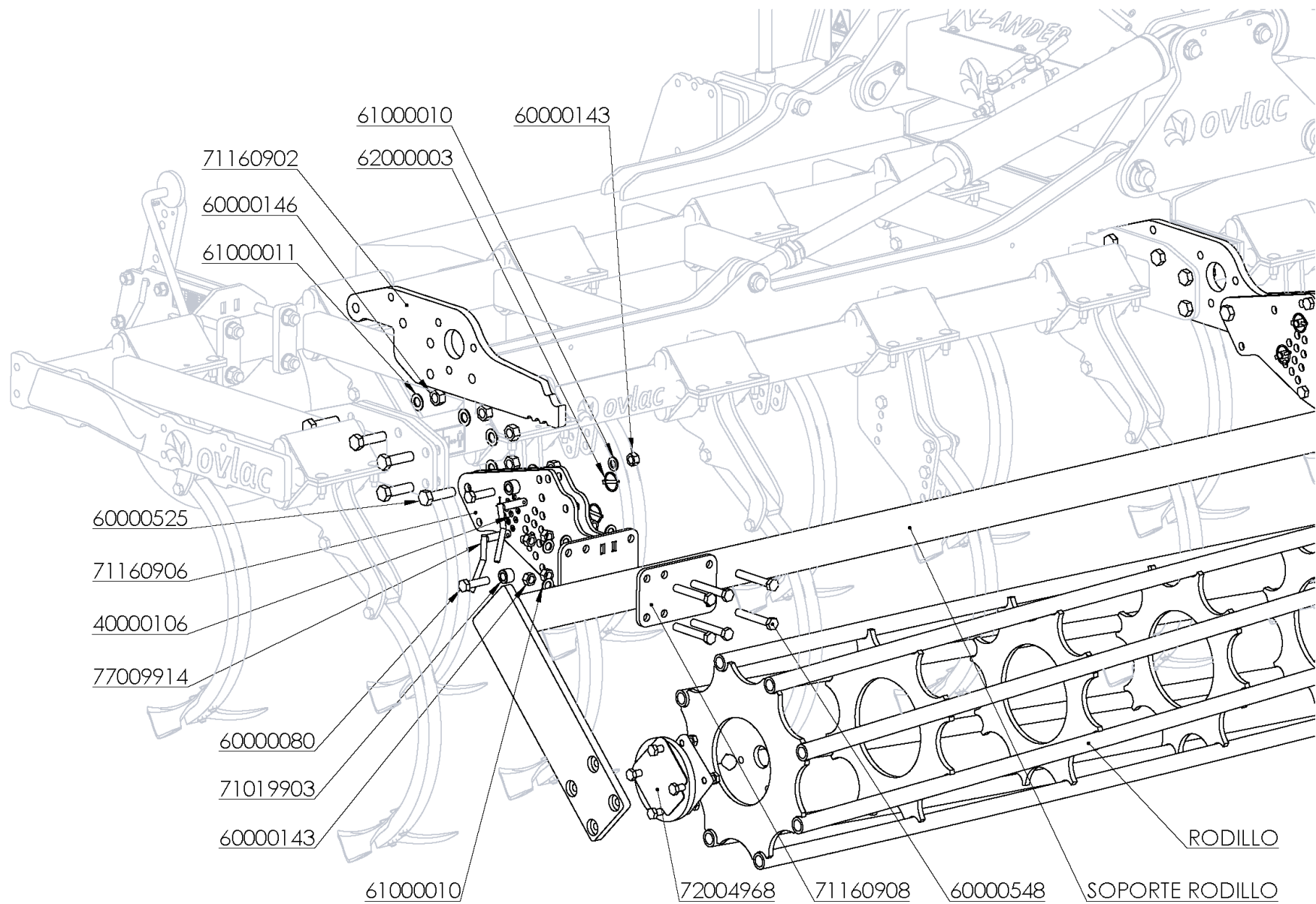




REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000073	TORN.EXAG.DIN-931 14* 70 8.8 ZINC.	64000320	BRAZO CHISEL 35*35 (T.H.)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	64000447	ALETA MCH 1506
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	64000489	REJA MCH CAVADORA (360x60x20) CON TUNGSTENO Y APOR
60000159	TUER.EXAG.DIN-934 14 8.8 ZINC.	64000559	REJA MCH 285x8 GOLONDRINA C/N
60000323	TORN.ARADO DIN-608/934 12*60 8.8	64000692	REJA MCH C-6 GOLONDRINA CN 7mm. BORO (LP)
60000361	TORN.ARADO DIN-608 12*60 12.9	64000760	REJA MCH 285x8 GOLONDRINA C/N TUNGSTENO
60000442	TORN.ARADO DIN-608 12*75 12.9	70103943	AMARRE MCH ADELANTADO TH (B/35)
60000444	TORN.ARADO DIN-603 12*50 10.9 ZINC.	70103944	AMARRE MCH ADELANTADO IZQD.TH (B/35)
60000478	TORN.EXAG.C/LAR. 16* 75 10.9 ZINC.	70103945	AMARRE MCH ADELANTADO DCHO.TH (B/35)
60000498	TUER.ABARCON DIN-6330B 12 10.9 ZINC.	77100002	SUSPENSION ELASTICA D=40*200mm.
61000060	ARAND.DIN-125 300HV 12 ZINC.	77100005	SUSPENSION ELASTICA D=40*226mm.C/RESALTE
64000260	REJA MCH 1537-B CAVADORA	77100101	PLACA SUP.AMARRE MCH
64000315	REJA MCH C-6 GOLONDRINA CN-8 FUND.		



ROLLER ASSEMBLY



ROLLER ASSEMBLY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.	62000003	PASADOR ANILLA 6 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	71019903	CASQ.D=30/16,5*21,5. SEP. SOP. RDA. MCH (D/17)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	71160902	SOPORTE ATORNILLADO P/ROD. MCH C/PEON
60000525	TORN.EXAG.C/LAR. 20* 70 10.9 ZN.	71160906	SOP.REGULACION RODILLO MCH-PV (D/23)
60000548	TORN.EXAG.C/LAR. 16*110 12.9 GEOMET	71160908	PLACA AMARRE RODILLO MCH (D/23)
61000010	ARAND.DIN-125 16 ZINC.	72004968	CONJ.RODAMIENTO RODILLO REDONDO (FUNDIDO)
61000011	ARAND.DIN-125 20 ZINC.	77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)



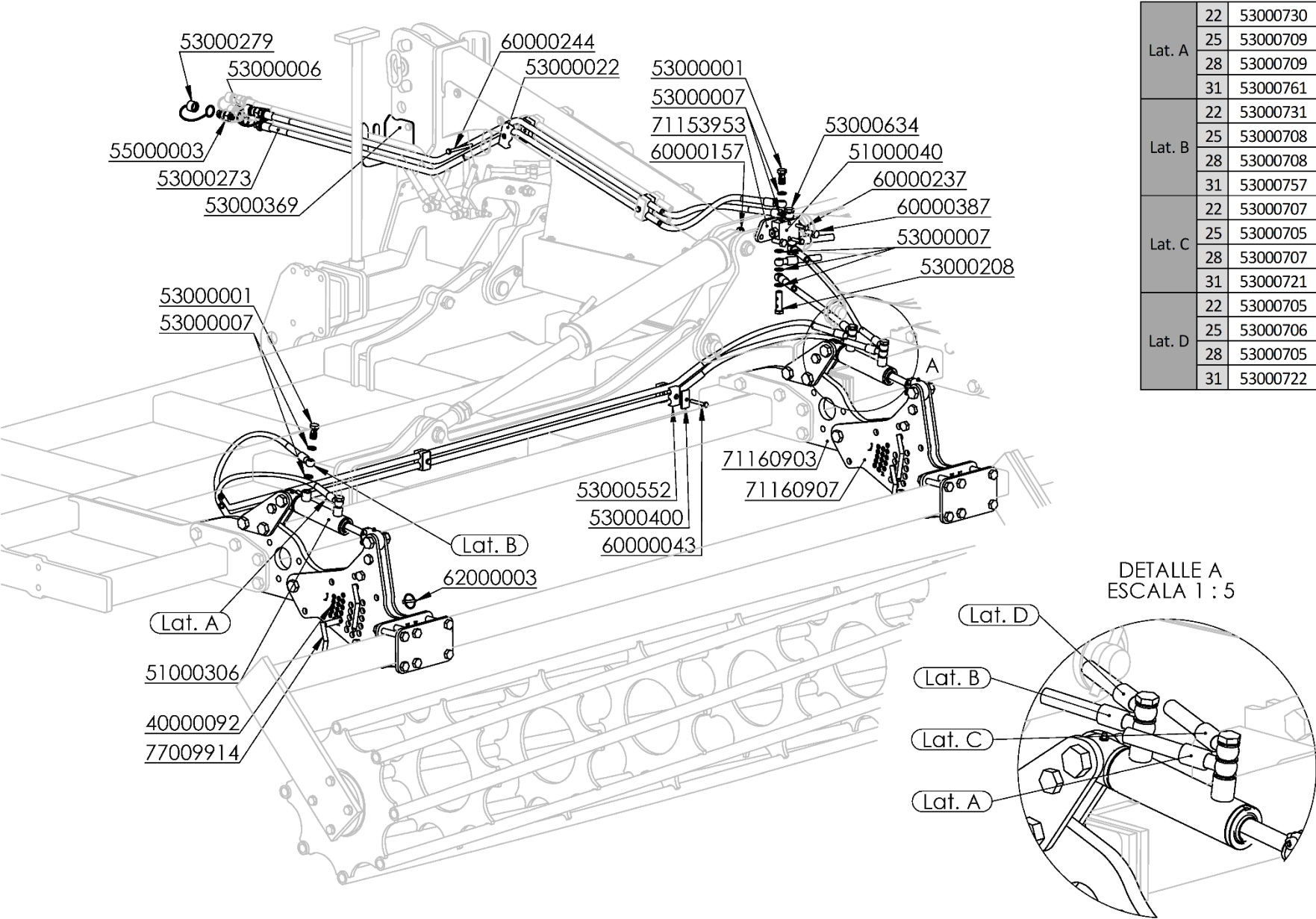
MCH	METROS	SOP. ROD.	ROD. CRG.	ROD. 8 MUESC.	ROD. 8 BARR.	ROD. 10 MUESC.	ROD. 10 BARR.
2-11-V	3,00	72522987	72611930	72602930	72031930	72132930	72032930
	3,30	72522989	72611931	72602933	72031933	72132933	72032933
2-13-V	3,60	72522990	72611935	72602935	72031936	72132936	72032936
2-13-PV	2 x 1,90	72522980	72611919	72602919	72031919	72132919	72032919
2-15-PV	2 x 2,15	72522982	72611922	72602922	72031921	72132921	72032921
2-17-PV	2 x 2,40	72522984	72611924	72602924	72031924	72132924	72032924
2-19-PV	2 x 2,70	72522986	72611928	72602927	72031927	72132927	72032927
2-21-PV	2 x 3,00	72522987	72611930	72602930	72031930	72132930	72032930
2-23-PV	1 x 3,03	72522988	72611932	72602932	72031931	72132931	72032931
	1 x 3,30	72522989	72611931	72602933	72031933	72132933	72032933
2-25-PV	1 x 3,30	72522989	72611931	72602933	72031933	72132933	72032933
	1 x 3,60	72522990	72611935	72602935	72031936	72132936	72032936
2-27-PV	1 x 3,60	72522990	72611935	72602935	72031936	72132936	72032936
	1 x 3,80	72522991	72611937	72602938	72031938	72132938	72032938



MCH	METROS	SOP. ROD.	ROD. CRG.	ROD. 8 MUESC.	ROD. 8 BARR.	ROD. 10 MUESC.	ROD. 10 BARR.
3-13-V	3,00	72522987	72611930	72602930	72031930	72132930	72032930
	3,30	72522989	72611931	72602933	72031933	72132933	72032933
3-16-PV	1 x 1,90	72522980	72611919	72602919	72031919	72132919	72032919
	1 x 1,95	72522981	72611920	72602920	72031920	72132920	72032920
3-19-PV	2 x 2,30	72522983	72611923	72602923	72031923	72132923	72032923
3-22-PV	1 x 2,55	72522985	72611926	72602925	72031925	72132925	72032925
	1 x 2,70	72522986	72611928	72602927	72031927	72132927	72032927
3-25-PV	2 x 3,00	72522987	72611930	72602930	72031930	72132930	72032930
3-28-PV	2 x 3,30	72522989	72611931	72602933	72031933	72132933	72032933
3-31-PV	2 x 3,60	72522990	72611935	72602935	72031936	72132936	72032936



HYDRAULIC ROLLER SUPPLEMENT (1/2)



Lat. A	22	53000730
	25	53000709
	28	53000709
Lat. B	31	53000761
	22	53000731
	25	53000708
Lat. C	28	53000708
	31	53000757
	22	53000707
Lat. D	25	53000705
	28	53000707
	31	53000721
Lat. D	22	53000705
	25	53000706
	28	53000705
	31	53000722



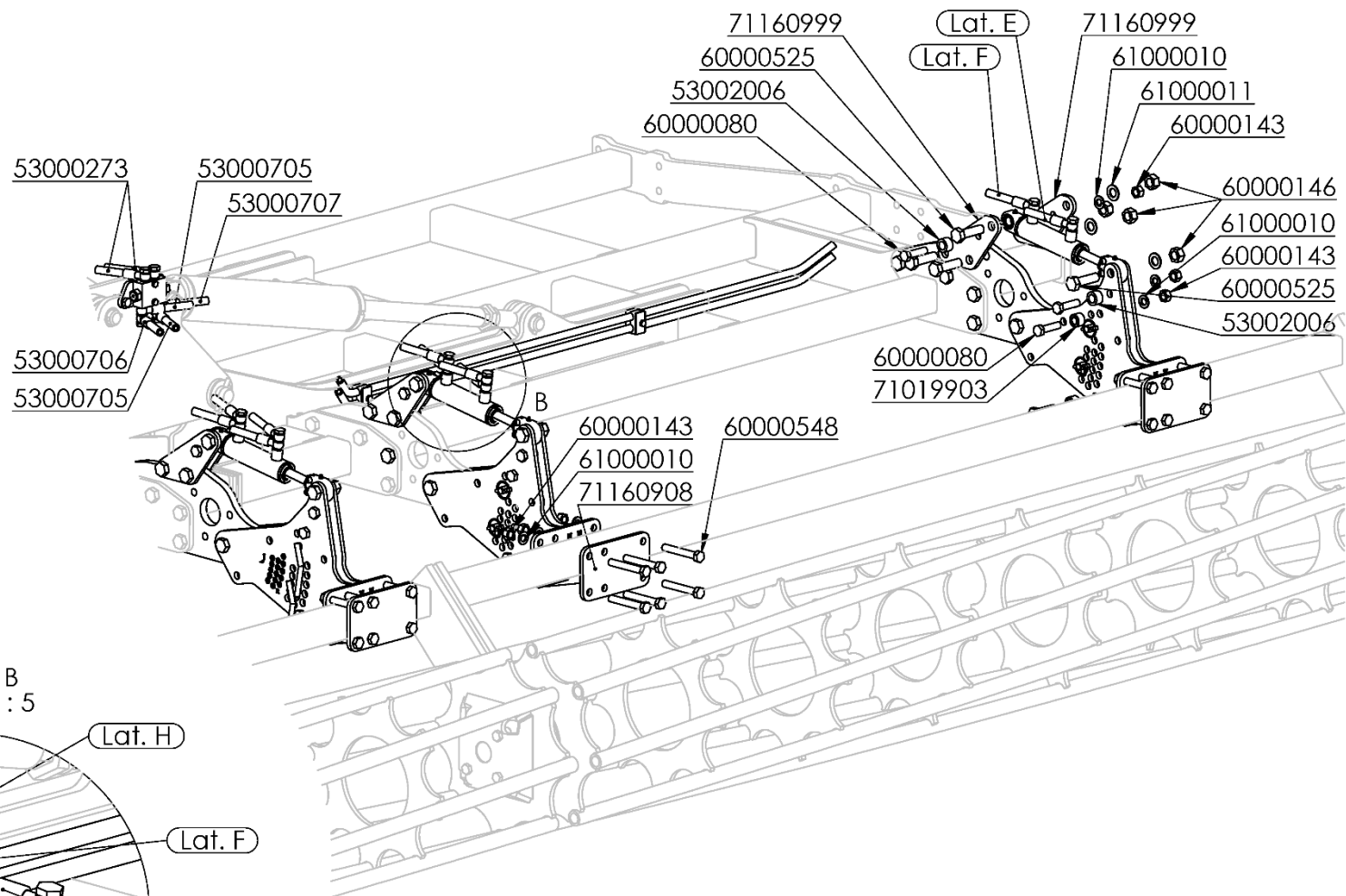
HYDRAULIC ROLLER SUPPLEMENT (1/2)

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
40000092	ADHESIVO REG. PROFUNDIDAD MCH (PAREJA)	53000709	LATIG.PREMIER-3/8*3200mm.OR-3/8/OR-3/8
51000040	VALV.BLOQUEO ZINC.3/8 VBPDE-3/8-A	53000721	LATIG.PREMIER-3/8*1000mm.OR-3/8/OR-3/8
51000306	CILINDRO ESTµNDAR D.E. 25/40/100 - 1001/1	53000722	LATIG.PREMIER-3/8*1200mm.OR-3/8/OR-3/8
53000001	TORNILLO SIMPLE 3/8 4022	53000730	LATIG.PREMIER-3/8*2500mm.OR-3/8/OR-3/8
53000006	JUNTA METAL/GOMA 1/2" 11603	53000731	LATIG.PREMIER-3/8*2250mm.OR-3/8/OR-3/8
53000007	JUNTA METAL/GOMA 3/8" 11602	53000757	LATIG.PREMIER-3/8*3650mm.OR-3/8/OR-3/8
53000022	ABRAZ.DOUBLE D=19mm. 1D19PP	53000761	LATIG.PREMIER-3/8*3900mm.OR-3/8/OR-3/8
53000208	TORNILLO DOBLE 3/8" 4032	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000273	LATIG.R2-3/8*3050mm.MF-1/2/OR-3/8	60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.
53000279	PROTECTOR E.R.MACHO 1/2" VERDE 5029-4PG	60000157	TUER.EXAG.DIN-934 12 8.8 ZINC
53000369	SOPORTE LATIG.TORRETA 2 HUECOS ZINC.	60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
53000400	PLACA RFZO.AB.DOUBLE 15/18	60000244	TORN.EXAG.DIN-931 8* 90 8.8 ZINC.
53000552	ABRAZ.DOUBLE LAT.PREMIER 3/8	60000387	TORN.EXAG.DIN-933 12* 35 8.8 ZINC.
53000634	TORNILLO SIMPLE 3/8" REDUCTOR TAL.UNICO DE 1MM 40	62000003	PASADOR ANILLA 6 ZINC.
53000705	LATIG.PREMIER-3/8*820mm.OR-3/8/OR-3/8	71153953	PLACA SOP. VALV. ROD. HIDR. MCH
53000706	LATIG.PREMIER-3/8*700mm.OR-3/8/OR-3/8	71160903	SOPORTE ATORNILLADO P/ROD.HID.MCH C/PEON
53000707	LATIG.PREMIER-3/8*950mm.OR-3/8/OR-3/8	71160907	SOP.REGULACION RODILLO HIDRAULICO MCH-PV (D/23)
53000708	LATIG.PREMIER-3/8*2950mm.OR-3/8/OR-3/8	77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)

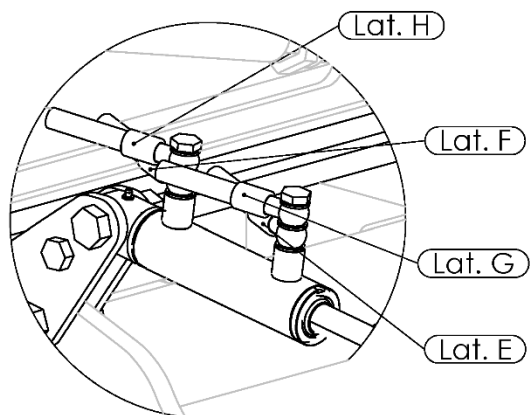


HYDRAULIC ROLLER SUPPLEMENT (2/2)

Lat. E	22	53000708
	25	53000708
	28	53000757
Lat. F	31	53000757
	22	53000710
	25	53000710
Lat. G	28	53000756
	31	53000756
	22	53000705
Lat. H	25	53000707
	28	53000722
	31	53000707
Lat. H	22	53000706
	25	53000705
	28	53000721
	31	53000705



DETALLE B
ESCALA 1 : 5

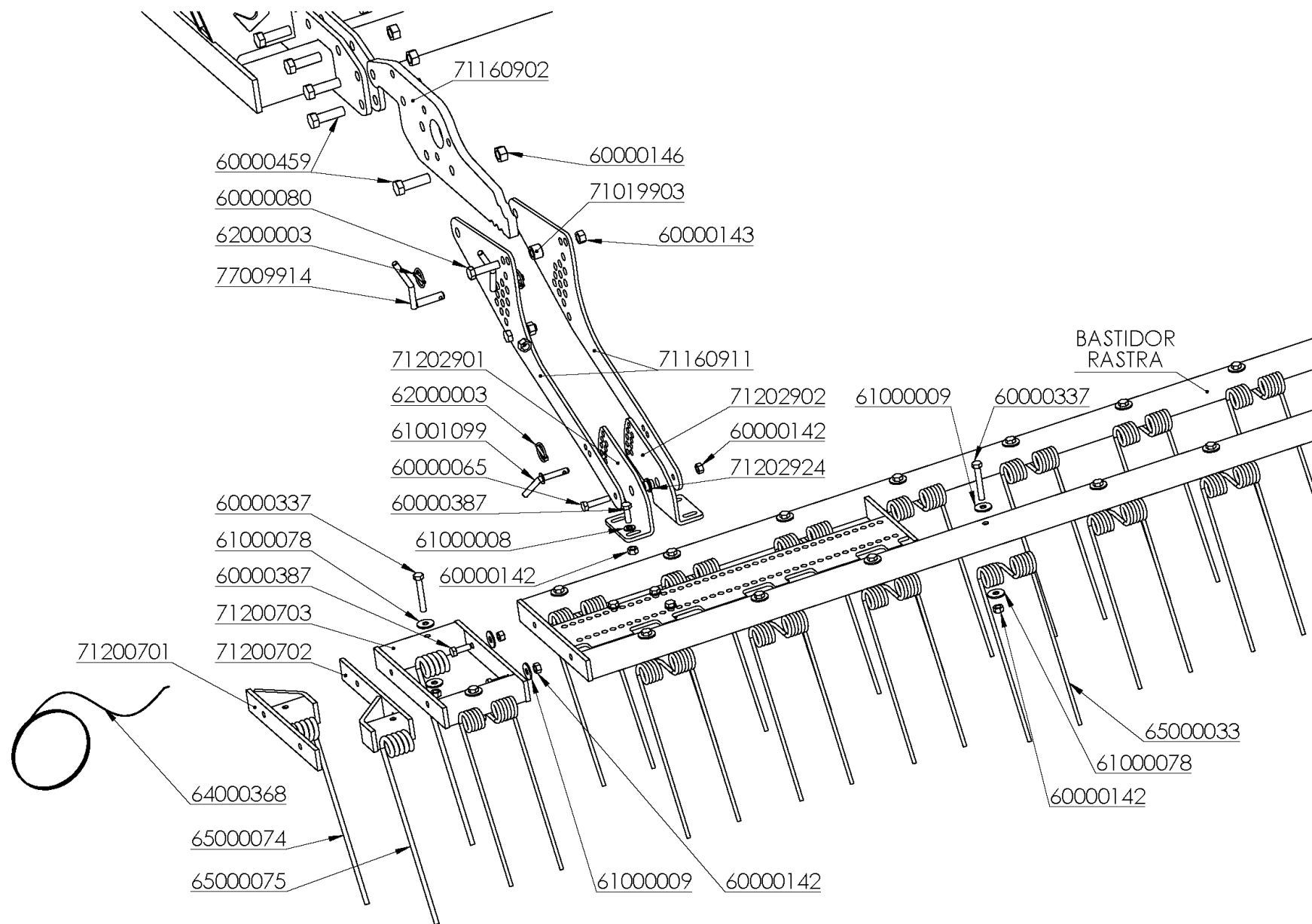


HYDRAULIC ROLLER SUPPLEMENT (2/2)

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000273	LATIG.R2-3/8*3050mm.MF-1/2/OR-3/8	60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.
53000705	LATIG.PREMIER-3/8*820mm.OR-3/8/OR-3/8	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
53000706	LATIG.PREMIER-3/8*700mm.OR-3/8/OR-3/8	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
53000707	LATIG.PREMIER-3/8*950mm.OR-3/8/OR-3/8	60000525	TORN.EXAG.C/LAR. 20*70 10.9 ZN.
53000708	LATIG.PREMIER-3/8*2950mm.OR-3/8/OR-3/8	60000548	TORN.EXAG.C/LAR. 16*110 12.9 GEOMET
53000710	LATIG.PREMIER-3/8*2700mm.OR-3/8/OR-3/8	61000010	ARAND.DIN-125 16 ZINC.
53000721	LATIG.PREMIER-3/8*1000mm.OR-3/8/OR-3/8	61000011	ARAND.DIN-125 20 ZINC.
53000722	LATIG.PREMIER-3/8*1200mm.OR-3/8/OR-3/8	71019903	CASQ.D=30/16,5*21,5. SEP. SOP. RDA. MCH (D/17)
53000756	LATIG.PREMIER-3/8*3400mm.OR-3/8/OR-3/8	71160908	PLACA AMARRE RODILLO MCH (D/23)
53000757	LATIG.PREMIER-3/8*3650mm.OR-3/8/OR-3/8	71160999	PLACA SOP.CILIND.RODILLO HID.MCH
53002006	SEP.B.P.32/20* 20mm.		



TINE HARROW ASSEMBLY



TINE HARROW ASSEMBLY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000065	TORN.EXAG.DIN-931 12* 55 10.9 ZINC.	65000033	MUELLE RASTRA D=10*400mm. DOBLE PUA ROJO RAL-3001
60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.	65000074	MUELLE RASTRA D=10*400mm. PUA DCHA. ROJO RAL-3001
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	65000075	MUELLE RASTRA D=10*400mm. PUA IZQDA. ROJO RAL-3001
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	71019903	CASQ.D=30/16,5*21,5. SEP. SOP. RDA. MCH (D/17)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	71160902	SOPORTE ATORNILLADO P/ROD. MCH C/PEON
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.	71160911	PLACA BRAZO SOP. RASTRA MCH (D/17)
60000387	TORN.EXAG.DIN-933 12* 35 8.8 ZINC.	71200701	BAST.RASTRA MCH MODULO DELANTERO (D/19)
60000459	TORN.EXAG.C/LAR. 20*70 10.9	71200702	BAST.RASTRA MCH MODULO TRASERO (D/19)
61000008	ARAND.DIN-125 12 ZINC.	71200703	BAST.RASTRA MCH MODULO 3 PUAS (D/19)
61000009	ARAND.DIN-9021 12 ZINC.	71202901	PLACA IZQ. REG. ANGULO RASTRA MCH
61000078	ARAND.DIN-6340 M-12 ZINC.	71202902	PLACA DCHA. REG. ANGULO RASTRA MCH
61001099	BULON D=12*120mm.ACODADO	71202924	CASQ.D= 30/20/12,5*21mm. BRAZO RASTRA MCH
62000003	PASADOR ANILLA 6 ZINC.	77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)
64000368	M.CABLE ACERO GALVA. 7x7+0 2mm.		



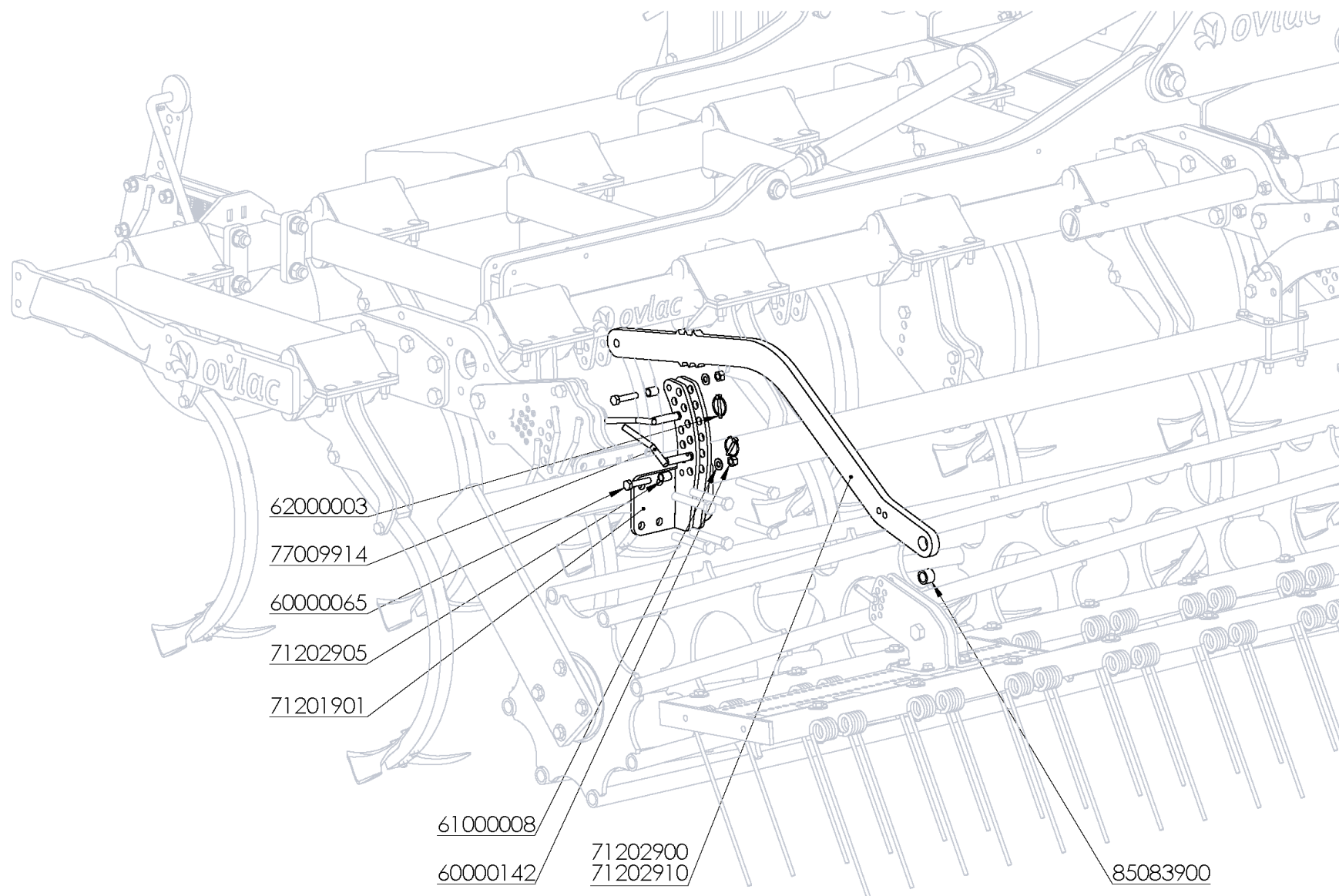
	MEDIDA	BASTIDOR IZQUIERDO	BASTIDOR CENTRAL	BASTIDOR DERECHO	MODULO DELANTERO	MODULO TRASERO
2-11-V	2,94 mts	-----	71200731	-----	71200701	71200702
	3,21 mts	-----	71200734	-----	71200701	71200702
2-13-V	-----	-----	-----	-----	-----	-----
2-13-PV	1,85 mts	71200724	-----	-----	-----	-----
	2,12 mts	-----	-----	71200725	-----	-----
2-15-PV	1,85 mts	71200724	-----	-----	-----	-----
	2,40 mts	-----	-----	71200726	-----	-----
2-17-PV	2,40 mts	71200726	-----	-----	-----	-----
	2,67 mts	-----	-----	71200728	-----	-----
2-19-PV	2,67 mts	71200728	-----	-----	-----	-----
	2,94 mts	-----	-----	71200731	-----	-----
2-21-PV	2,94 mts	71200731	-----	-----	-----	-----
	3,21 mts	-----	-----	71200734	-----	-----
2-23-PVL	3,21 mts	71200734	-----	71200734	-----	-----
2-23-PV	3,21 mts	71200734	-----	-----	-----	-----
	3,48 mts	-----	-----	71200732	-----	-----
2-25-PV	3,48 mts	71200732	-----	-----	-----	-----
	3,76 mts	-----	-----	71200727	-----	-----
2-27-PV	3,76 mts	71200727	-----	71200727	71200701	71200702



	MEDIDA	BASTIDOR IZQUIERDO	BASTIDOR CENTRAL	BASTIDOR DERECHO	MODULO DELANTERO	MODULO IZQ / DCHO	MODULO TRASERO
3-13-V	2,94 mts	71200731	-----	71200731	71200701	-----	71200702
	3,21 mts	71200734	-----	71200734	71200701	-----	71200702
3-14-PV	3,21 mts	71200734	-----	71200734	71200701	-----	71200702
3-16-PV	1,85 mts	71200724	-----	-----	-----	-----	-----
	2,12 mts	-----	-----	71200725	-----	-----	-----
3-19-PV	2,40 mts	71200726	-----	71200726	-----	-----	-----
3-22-PV	2,67 mts	71200728	-----	71200728	71200701	-----	71200702
3-25-PV	2,94 mts	71200731	-----	-----	-----	-----	-----
	3,21 mts	-----	-----	71200734	-----	-----	-----
3-28-PV	3,21 mts	71200734	-----	71200734	-----	71200703 (x2)	-----
3-31-PV	3,76 mts	71200727	-----	71200727	-----	-----	-----



ROLLER – TINE HARROW ASSEMBLY

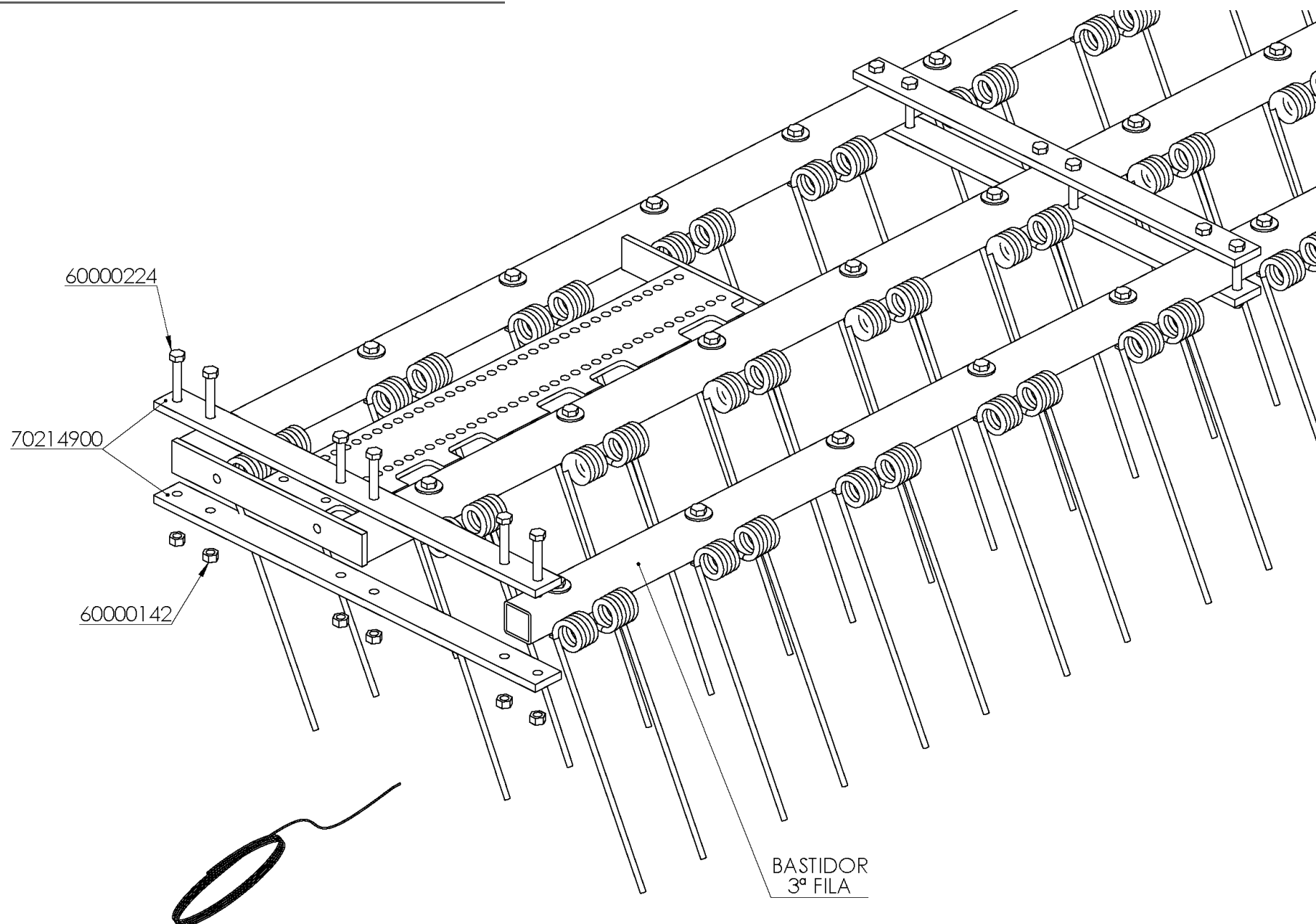


ROLLER – TINE HARROW ASSEMBLY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000065	TORN.EXAG.DIN-931 12* 55 10.9 ZINC.	71202900	BRAZO SOP. RASTRA MCH P/ROD.380 (D/17)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	71202905	SEP.TUBO 18*14*22mm.
61000008	ARAND.DIN-125 12 ZINC.	71202910	BRAZO SOP. RASTRA MCH P/ROD.540 (D/17)
62000003	PASADOR ANILLA 6 ZINC.	77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)
71201901	SOP.REGUL.BAST.RASTRA MCH (D/23)	85083900	CASQ.D= 29,8/21*21mm.ARTIC.OREJAS FRBV/FB



3 ROWS TINE HARROW ASSEMBLY



3 ROWS TINE HARROW ASSEMBLY

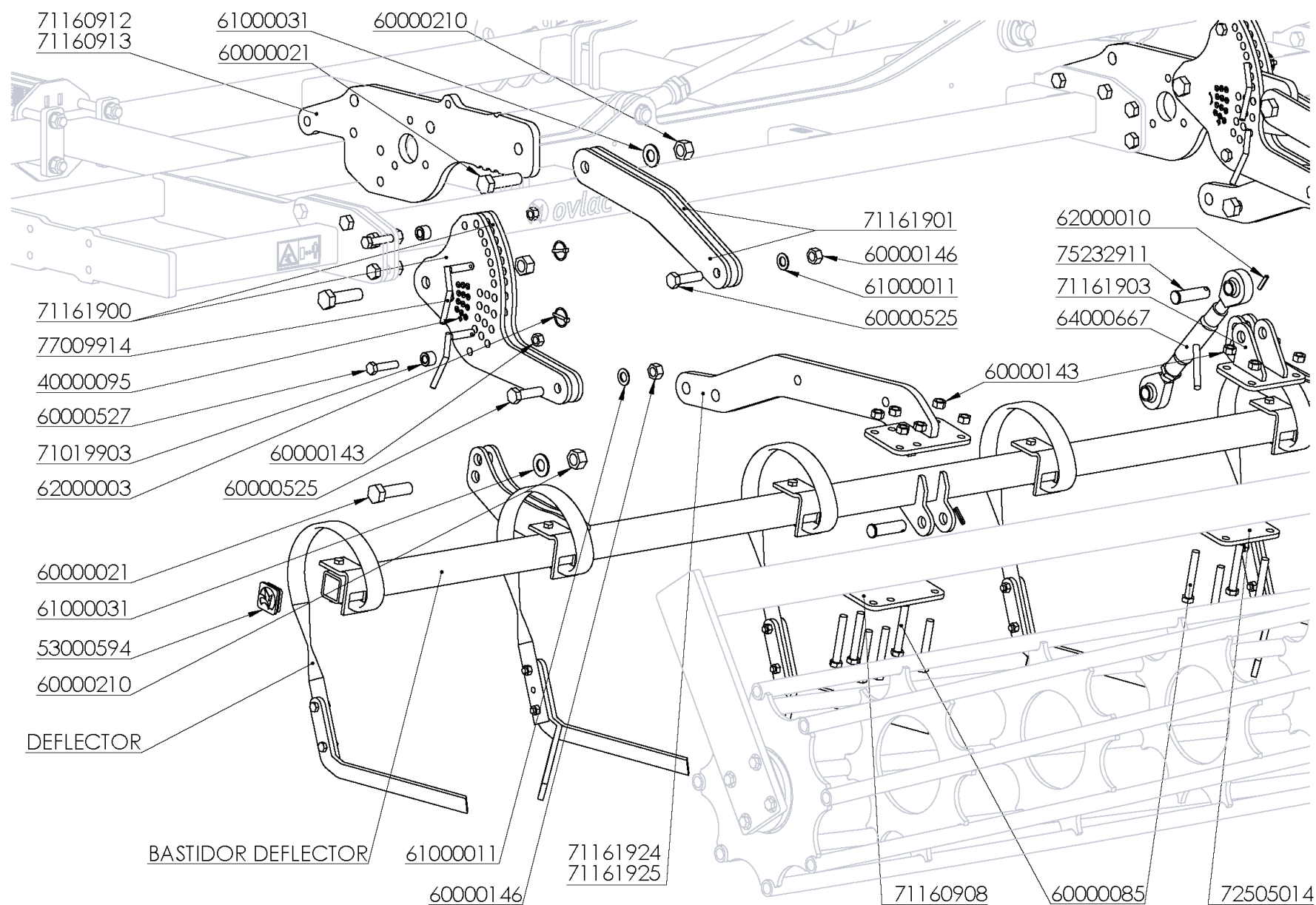
REFERENCIA	DESCRIPCIÓN
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000224	TORN.EXAG.DIN-931 12* 90 10.9 ZINC.
70214900	LLANTA 50*12*723 MODULO RASTRA 3F MCH

MCH	BASTIDOR 3ª FILA
2-11-V	71200030
	70200031
2-13-V	-----
2-13-PV	71200024 + 70200099
2-15-PV	70200099 + 71200026
2-17-PV	71200026 + 71200028
2-19-PV	71200028 + 71200030
2-21-PV	71200030 + 71200031
2-23-PVL	70200031 + 71200031
2-23-PV	70200031 + 71200032
2-25-PV	71200032 + 70200027
2-27-PV	70200027 + 70200027

MCH	BASTIDOR 3ª FILA
3-13-V	71200030
	70200031
3-14-PV	70200031
3-16-PV	71200024 + 70200099
3-19-PV	71200026 + 71200026
3-22-PV	71200028 + 71200028
3-25-PV	70200031 + 71200030
3-28-PV	70200031 + 70200031
3-31-PV	70200027 + 70200027



ROLLER – DEFLECTORS ASSEMBLY



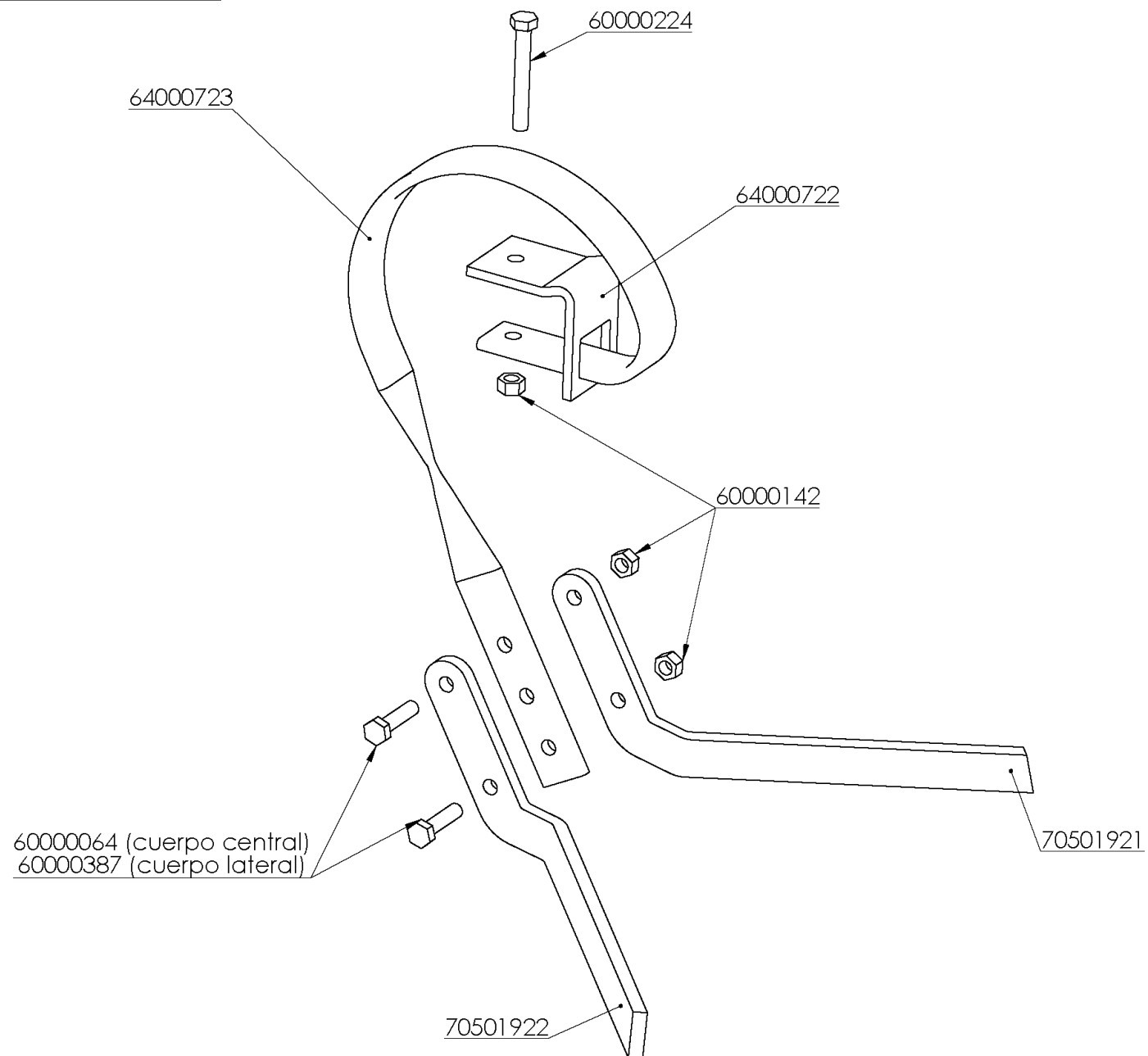
ROLLER – DEFLECTORS ASSEMBLY

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
40000095	ADHESIVO ABANICO PARALELOGRAMO MCH (PAREJA)	64000667	TENSOR C/ROT.D=26 30334 ZINC.
53000594	TAPON PVC NEGRO 60x60x4-6	71019903	CASQ.D=30/16,5*21,5. SEP. SOP. RDA. MCH (D/17)
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9	71160908	PLACA AMARRE RODILLO MCH (D/23)
60000085	TORN.EXAG.DIN-931 16*110 8.8 ZINC.	71160912	SOPORTE ATORN.PARALELOGRAMO MCH P/PEON
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	71160913	SOPORTE ATORN.PARALELOGRAMO MCH P/PEON CORTO
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	71161900	ABANICO PARALELOGRAMO MCH
60000210	TUER.AUTO.DIN-985 1" SAE 8.8 ZN.	71161901	BIELA PARALELOGRAMO MCH
60000525	TORN.EXAG.C/LAR. 20* 70 10.9 ZN.	71161903	SOP.TENSOR BAST.DISCOS MCH
60000527	TORN.EXAG.DIN-931 16* 65 8.8 ZINC.	71161924	BRAZO INF.PARALELOGRAMO MCH D500 (D/23)
61000011	ARAND.DIN-125 20 ZINC.	71161925	BRAZO INF.PARALELOGRAMO MCH D400 (D/23)
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)	72505014	PLACA AMARRE RODILLO MCH (D/09)
62000003	PASADOR ANILLA 6 ZINC.	75232911	BULON D=30/25,5*93mm.TENSOR DISCOS VBC
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.	77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)

	IZQUIERDO	CENTRAL	DERECHO
3-13-V	-----	71163915	-----
	-----	71163915	-----
3-16-PV	71163918	-----	71163971
3-19-PV	71163924	-----	71163971
3-22-PV	71163924	-----	71163974
3-25-PV	71163927	-----	71163974
3-28-PV	71163927	-----	71163983
3-31-PV	71163933	-----	71163983



DEFLECTORS BODY

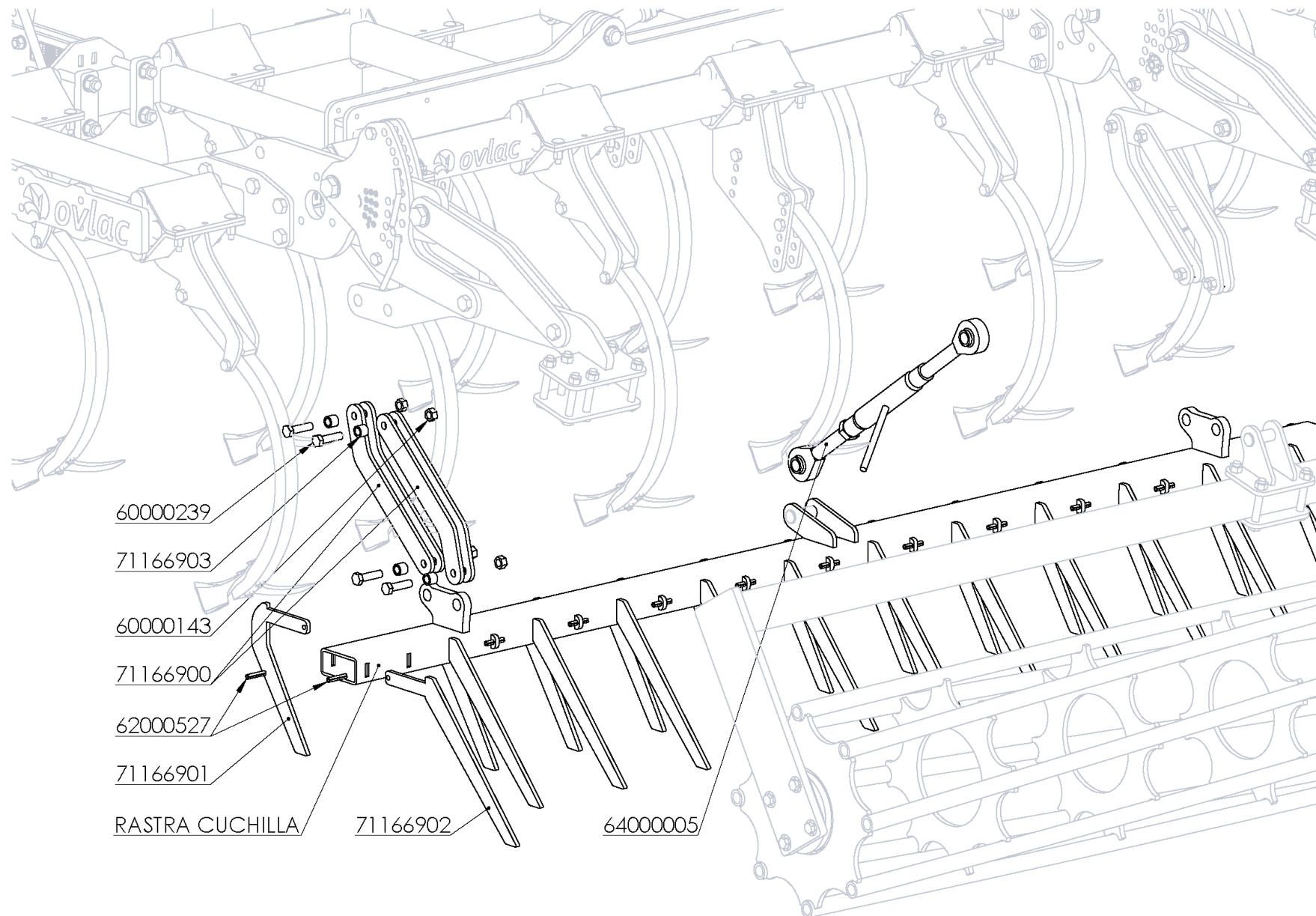


DEFLECTORS BODY

REFERENCIA	DESCRIPCIÓN
60000064	TORN.EXAG.DIN-931 12* 50 10.9 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000224	TORN.EXAG.DIN-931 12* 90 10.9 ZINC.
60000387	TORN.EXAG.DIN-933 12* 35 8.8 ZINC.
64000722	BRIDA BRAZO DEFLECTOR OV. 45x10+60x60 M12
64000723	BRAZO 3A 45x10 DEFLECTORES OV.
70501921	DEFLECTOR OV. DCHO.MCH
70501922	DEFLECTOR OV. IZQDO.MCH



ROLLER – TINE HARROW – KNIVES ASSEMBLY



ROLLER – TINE HARROW – KNIVES ASSEMBLY

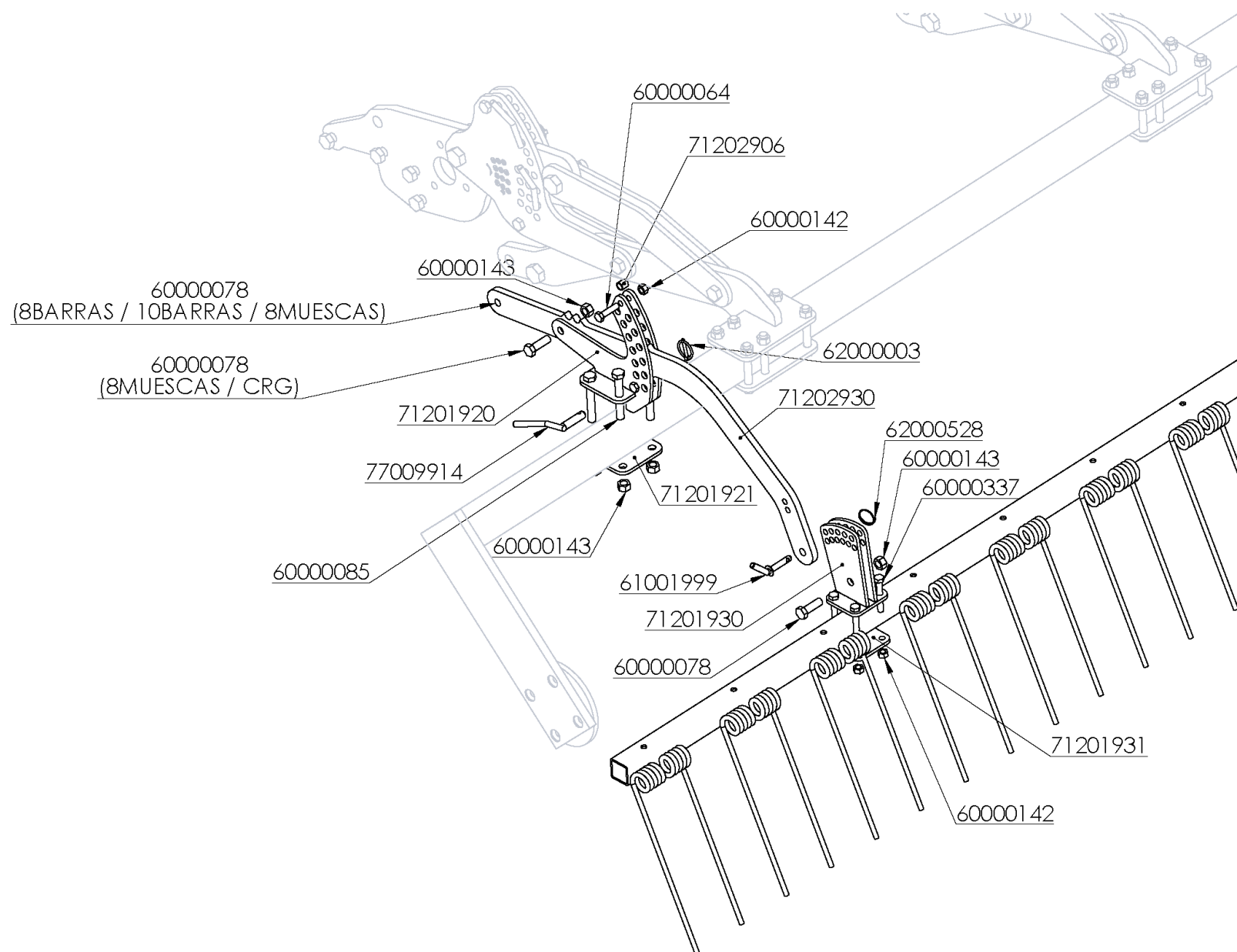
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	71166900	BIELA RASTRA CUCHILLAS DOBLES
60000239	TORN.EXAG.DIN-931 16* 60 10.9 ZINC.	71166901	CUCHILLA DELANTERA RASTRA DOBLE
62000527	PASADOR ELAST.DIN-1481 10* 20	71166902	CUCHILLA TRASERA RASTRA DOBLE
64000005	TENSOR C/ROT.D=26 30348 ZINC.	71166903	CASQ.D=25/16,5*21,5 RASTRA CUCHILLAS DOBLES

	BASTIDOR IZQUIERDO	BASTIDOR DERECHO
MCH-2-17	71167917	71167917
MCH-2-19	71167919	71167920
MCH-2-21	71167921	71167921
MCH-2-23	71167923	71167923
MCH-2-25	71167925	71167925

	BASTIDOR IZQUIERDO	BASTIDOR DERECHO
MCH-3-22	71167975	71167974
MCH-3-28	71167979	71167978



1 ROW TINE HARROW ON ROLLER ASSEMBLY



1 ROW TINE HARROW ON ROLLER ASSEMBLY

REFERENCIA	DESCRIPCIÓN
60000064	TORN.EXAG.DIN-931 12* 50 10.9 ZINC.
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000085	TORN.EXAG.DIN-931 16*110 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.
61001999	BULON D=12*120mm. REG.RASETAS
62000003	PASADOR ANILLA 6 ZINC.
62000528	ANILLA PASADOR INOX-36x3 1,5V LUZ 5mm.
71201920	SOP.REGUL.BAST.RASTRA MCH SOBRE RODILLO
71201921	PLACA AMARRE SOP.RASTRA MCH SOBRE RODILLO
71201930	SOP.REGUL.BAST.RASTRA 1 FILA MCH
71201931	PLACA AMARRE SOP.RASTRA MCH 1 FILA
71202906	SEP.TUBO 18*14*17mm.
71202930	BRAZO SOP. RASTRA 1 FILAS MCH SOBRE ROD.
77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)



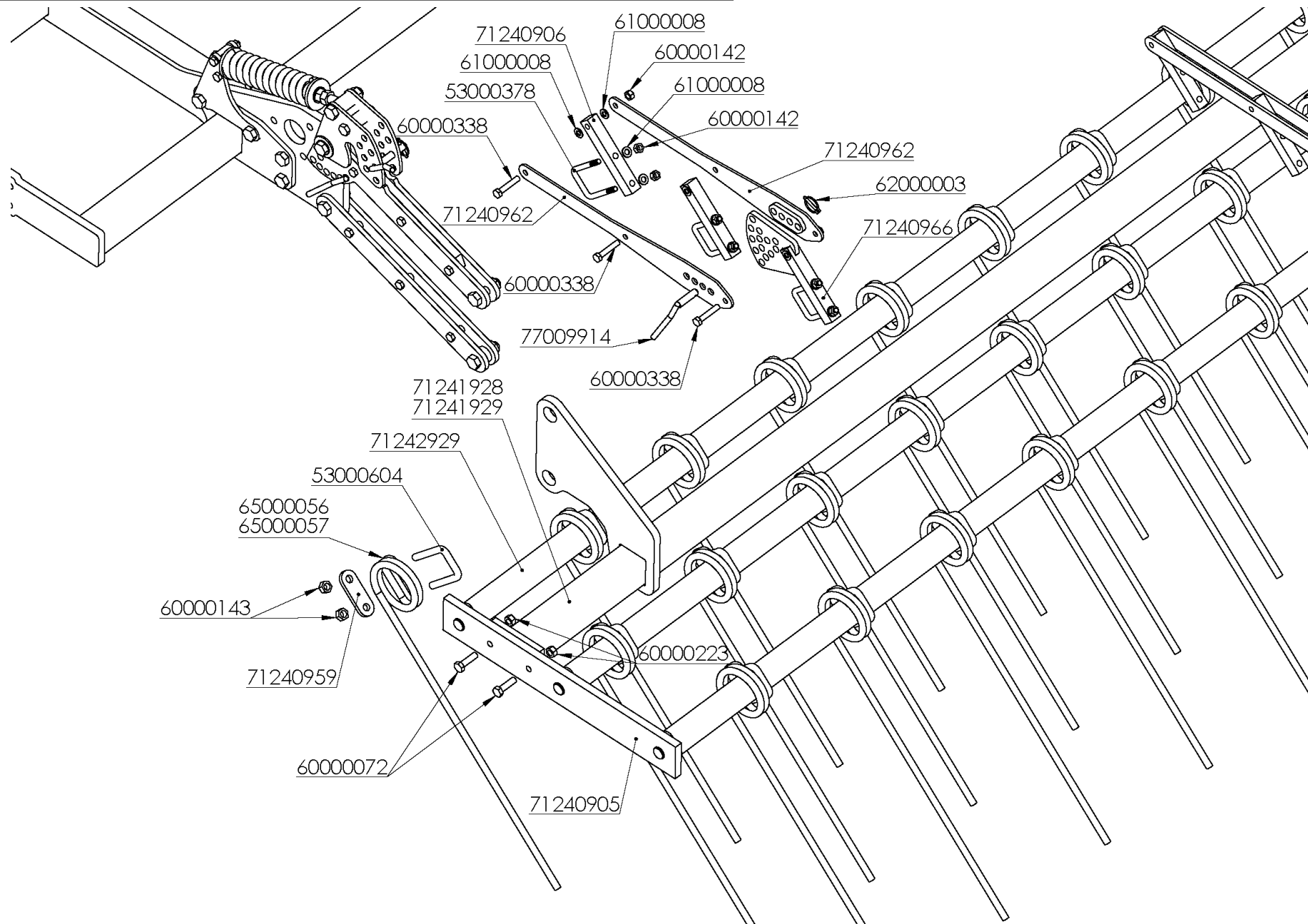


ADJUSTABLE TINE HARROW ASSEMBLY 16mm (I)

REFERENCIA	DESCRIPCIÓN
60000083	TORN.EXAG.DIN-931 16* 90 8.8
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000296	TORN.EXAG.DIN-931 20* 90 8.8 ZINC.
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.
60000449	TUER.EXAG.DIN-934 20 8.8 ZINC.
60000525	TORN.EXAG.C/LAR. 20* 70 10.9 ZN.
61000011	ARAND.DIN-125 20 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
65000058	MUELLE COMPR.255*72*15 AMORT.RASTRA 16mm.
71160926	SOP.ATOR.P/RASTRA REG.16mm. MCH P/PEON
71240942	ABANICO RASTRA REG. 16mm.
71240945	GUIA MUELLE RASTRA REG. 16mm.
71240946	LLANTA GUIA MUELLE RASTRA REG. 16mm.
71240951	PLACA SOP. GUIA MUELLE RASTRA REG. 16mm.
71240952	CASQ. ZINCADO D=75/40/22*35mm GUIA MUELLE RASTRA REG. 16mm.
77009903	BULON REG.RODILLO MCH
77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)
90004900	SEP.B.P.32/20* 52,5mm.



ADJUSTABLE TINE HARROW ASSEMBLY 16mm (II)

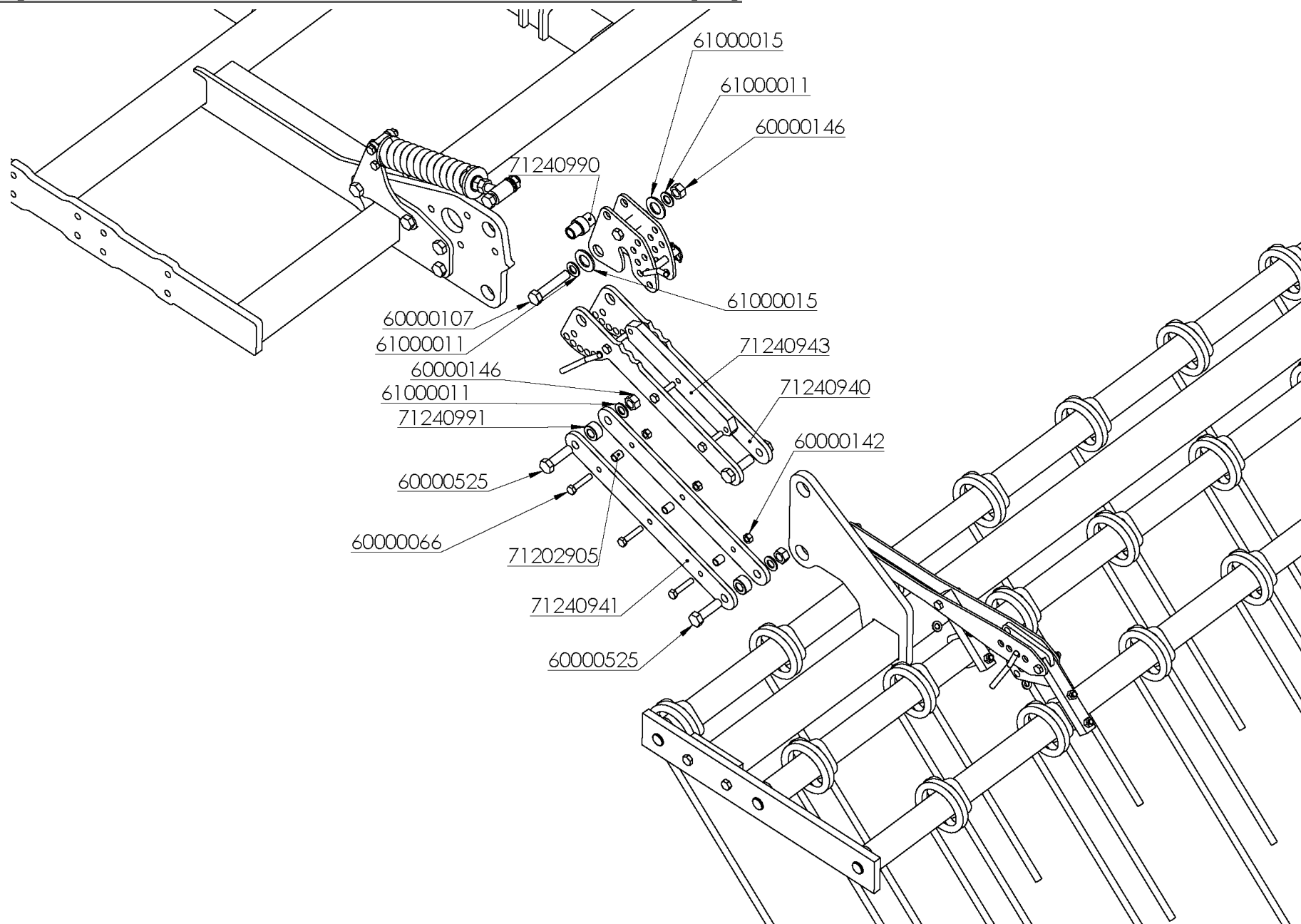


ADJUSTABLE TINE HARROW ASSEMBLY 16mm (II)

REFERENCIA	DESCRIPCIÓN
53000378	ABARCON 119* 74 M-12 8.8 ZINC.
53000604	ABARCON RASTRA REG. ZINC.
60000072	TORN.EXAG.DIN-931 14* 50 8.8
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
60000338	TORN.EXAG.DIN-931 12* 65 10.9 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
65000056	MUELLE RASTRA D=16*850mm. DCHA.
65000057	MUELLE RASTRA D=16*850mm. IZQ.
71240905	LLANTA SOP. GIRO RASTRA REG. 16mm.
71240906	LLANTA GIRO RASTRA REG. 16mm.
71240959	BRIDA M16 SOP. MUELLE RASTRA 16mm.
71240962	BIELA ANGULO GIRO RASTRA REG. 16mm. (D/19)
71240966	LLANTA REGULACION GIRO RASTRA REG. 16mm. (D/19)
71241928	BAST.RASTRA REG. 16mm. MCH 2,95m. (dch)
71241929	BAST.RASTRA REG. 16mm. MCH 2,95m. (izq)
71242929	BAST. GIRATORIO RASTRA REG. 16mm. MCH 2,95m.
77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)



ADJUSTABLE TINE HARROW ASSEMBLY 16mm (III)

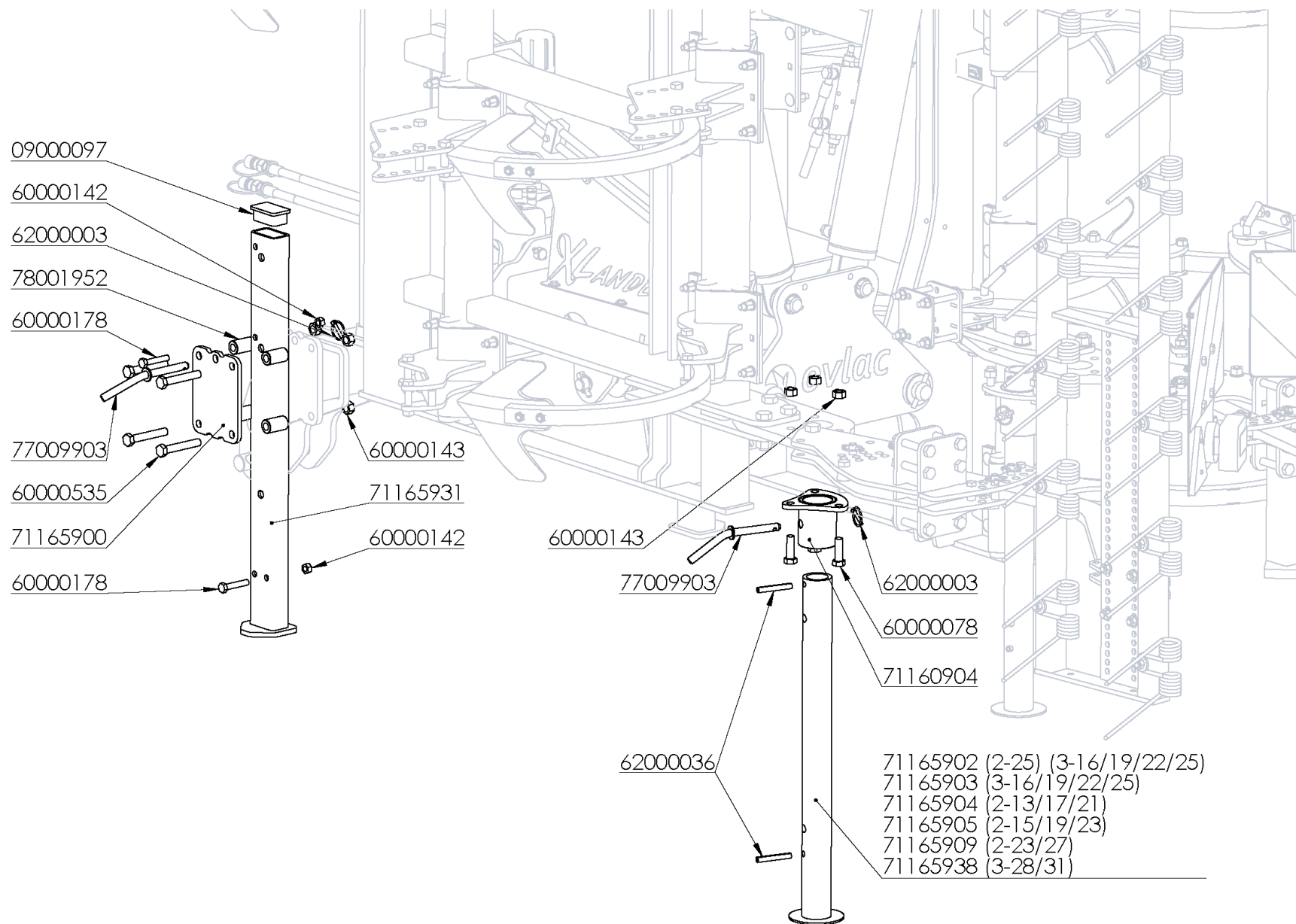


ADJUSTABLE TINE HARROW ASSEMBLY 16mm (III)

REFERENCIA	DESCRIPCIÓN
60000066	TORN.EXAG.DIN-931 12* 60 8.8 ZINC.
60000107	TORN.EXAG.DIN-931 20*100 8.8
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000525	TORN.EXAG.C/LAR. 20* 70 10.9 ZN.
61000011	ARAND.DIN-125 20 ZINC.
61000015	ARAND.DIN-125-B 30 ZINC.
71202905	SEP.TUBO 18*14*22mm.
71240940	BIELA REG. PARALEL. RASTRA REG. 16mm.
71240941	BIELA PARALEL. RASTRA REG. 16mm.
71240943	LLANTA RFZO. PARALEL. RASTRA REG. 16mm.
71240990	CASQ.D=40/30/21*70mm.SOP.ABANICO RASTRA REG. 16mm.
71240991	CASQ.D=40/21*21mm.SEP. PARALEL. RASTRA REG. 16mm.



PARKING LEG MCH FRONT AND REAR

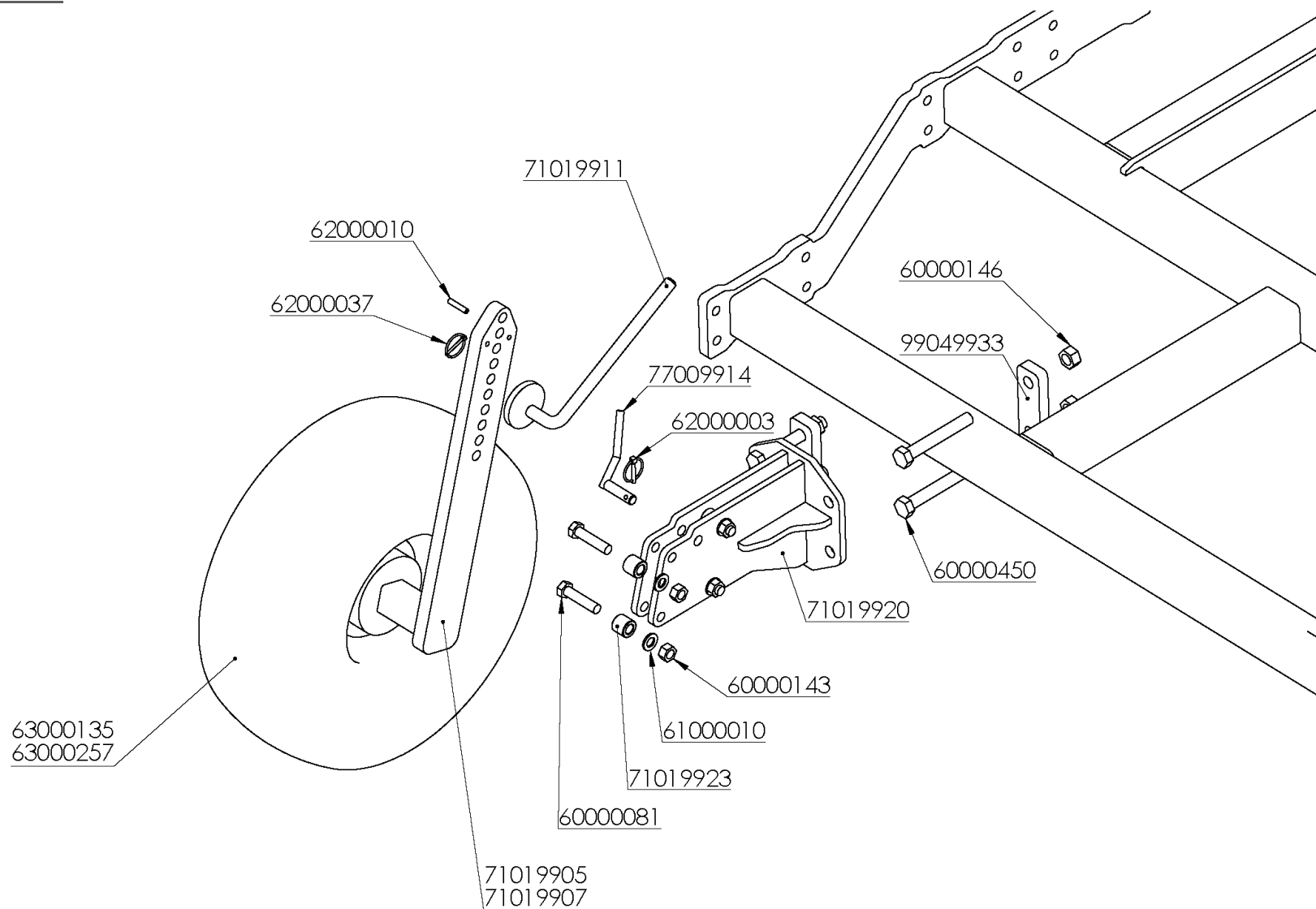


PARKING LEG MCH FRONT AND REAR

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000097	TAPON GOMA 80* 50* 6mm.	71165902	PEON MCH 580mm.
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.	71165903	PEON MCH 925mm.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	71165904	PEON MCH 765mm.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	71165905	PEON MCH 860mm.
60000178	TORN.EXAG.DIN-931 12* 65 8.8 ZINC.	71165909	PEON MCH 700mm.
60000535	TORN.EXAG.DIN-931 16*100 8.8 ZN.	71165931	PEON DELANTERO MCH (D/21)
62000003	PASADOR ANILLA 6 ZINC.	71165938	PEON MCH 420mm.
62000036	PASADOR ELAST.DIN-1481 12* 80 ZINC.	77009903	BULON REG.RODILLO MCH
71160904	BRIDA PEON MCH-PV	78001952	CASQ.D= 30/16,5*51,5mm.SEP.CPO.S-25 (50mm.)/PEONES
71165900	PLACA SOP.PEON DELANTERO MCH		



FRONT WHEEL

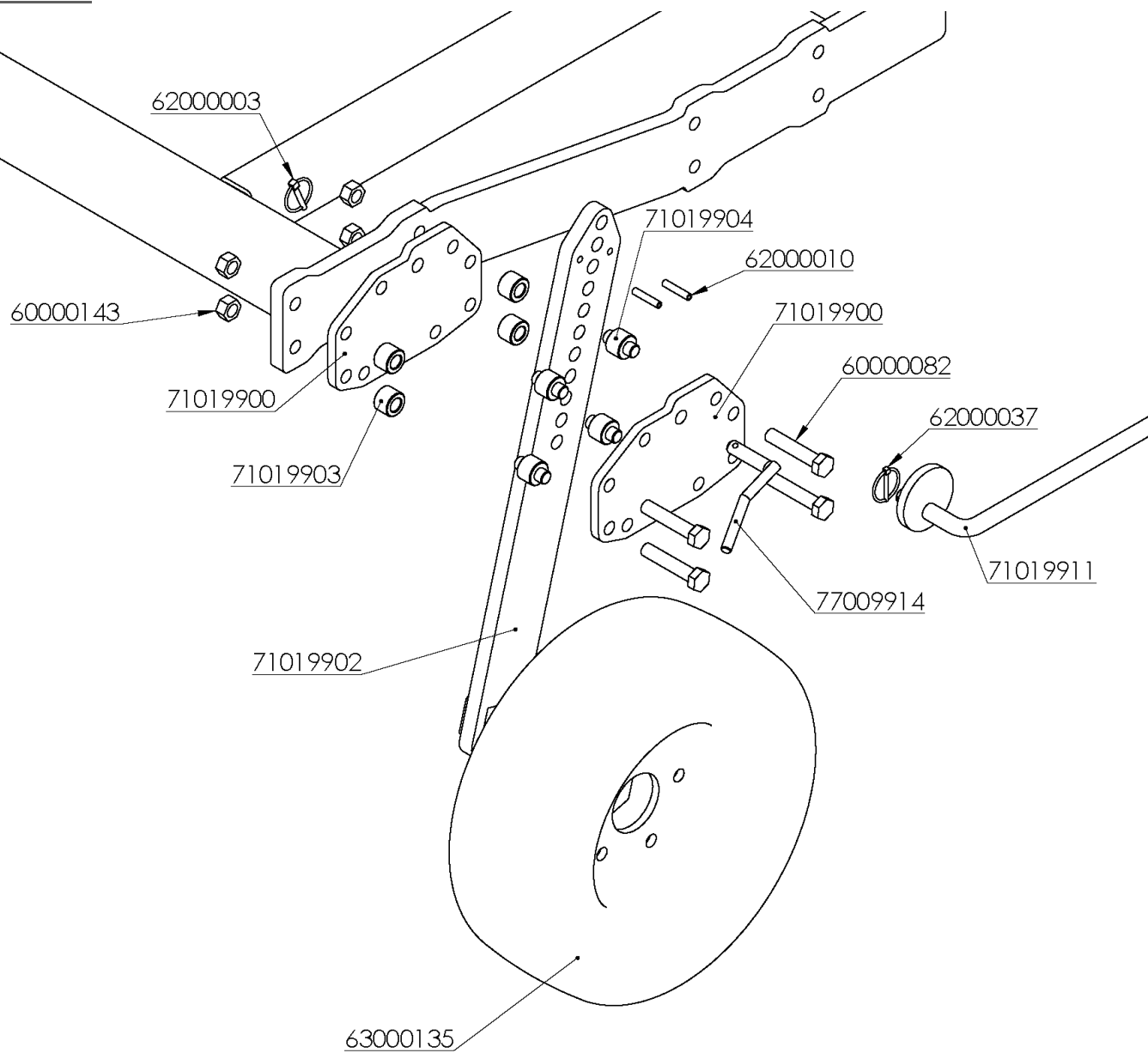


FRONT WHEEL

REFERENCIA	DESCRIPCIÓN
60000081	TORN.EXAG.DIN-931 16* 70 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000450	TORN.EXAG.DIN-931 20*140 8.8 ZINC.
61000010	ARAND.DIN-125 16 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
62000037	PASADOR ANILLA 4,5 ZINC.
63000135	R.N.C/ATAQUE 08" 18/7 - 16PR TT
63000257	R.N.C/ATAQUE 200/60*14,5"-10PR
71019905	BRAZO RDA.MCH 200/60 (D/17)
71019907	BRAZO RDA.DOBLE MCH 200/60 (D/17)
71019911	LEVA RDA.MCH
71019920	SOP.RDA.DELANTERA MCH 200/60 (D/17)
71019923	CASQ.D=30/16,5*26,5.SEP.SOP.RDA.DEL.MCH
77009914	BULON D=16*65mm.REG.RODILLO MCH (D/18)
99049933	LLANTA AMARRE RDA.DELANTERA MCH-A



LATERAL WHEEL

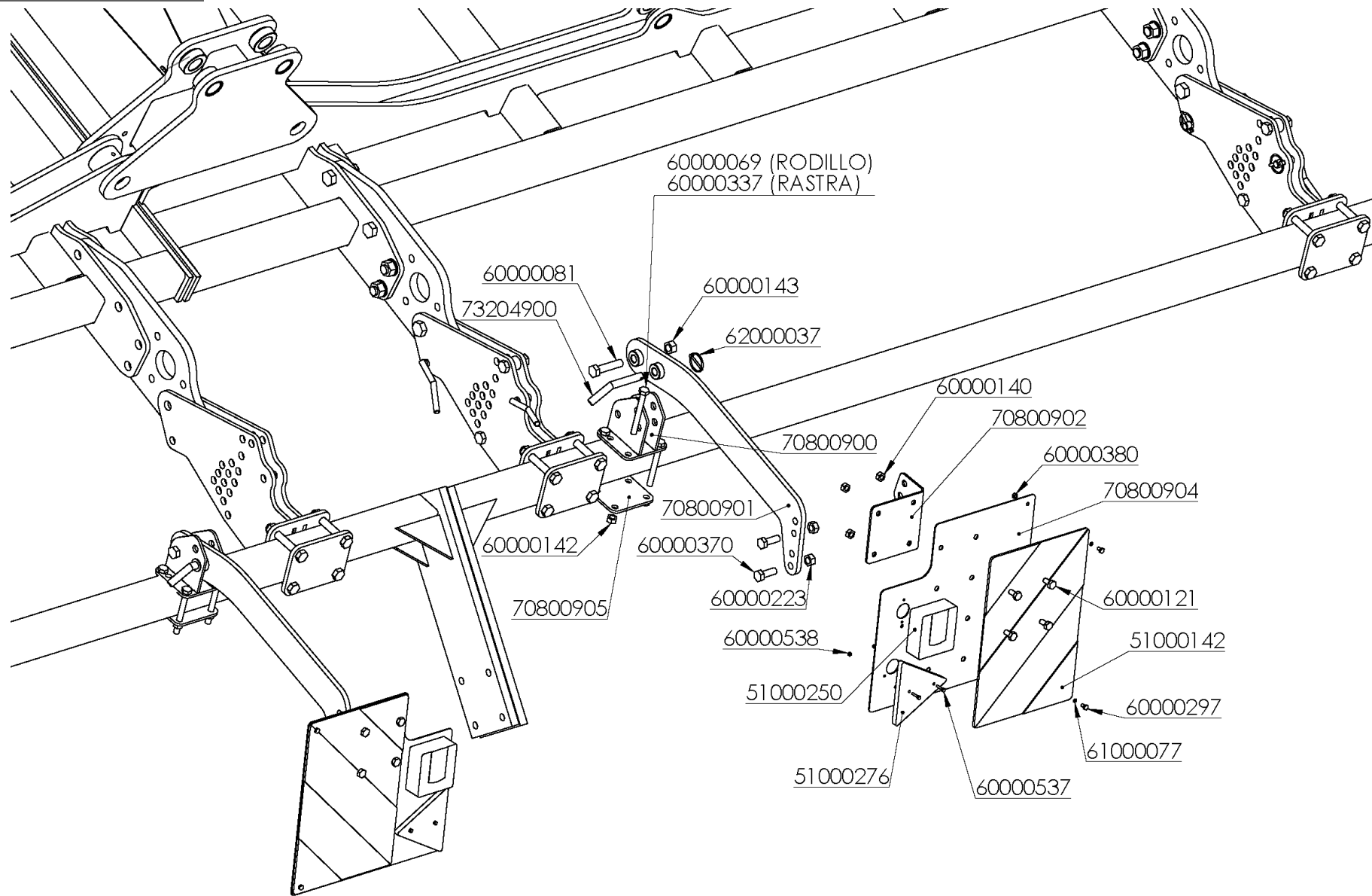


LATERAL WHEEL

REFERENCIA	DESCRIPCIÓN
60000082	TORN.EXAG.DIN-931 16* 80 8.8
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
62000037	PASADOR ANILLA 4,5 ZINC.
63000135	R.N.C/ATAQUE 08" 18x7 - 16PR TT
71019900	PLACA SOP.RDA. MCH. (D/17)
71019902	BRAZO RDA.MCH (D/17)
71019903	CASQ. D=30/16,5*21,5. SEP. SOP. RDA. MCH (D/17)
71019904	TETON SEP. SOP. RDA. MCH (D/17)
71019911	LEVA RDA.MCH
77009914	BULON D=16*60mm.REG.RODILLO MCH (D/18)



SIGNALING KIT

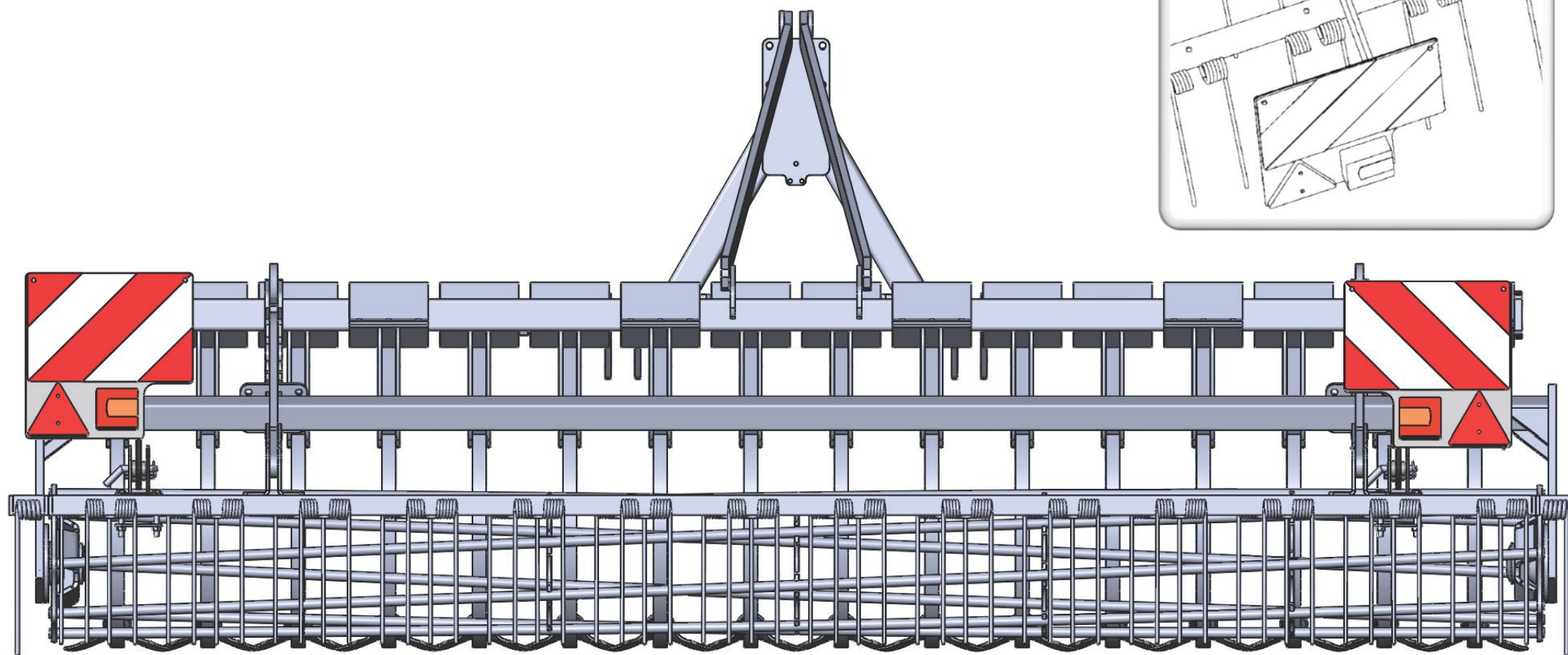


SIGNALING KIT

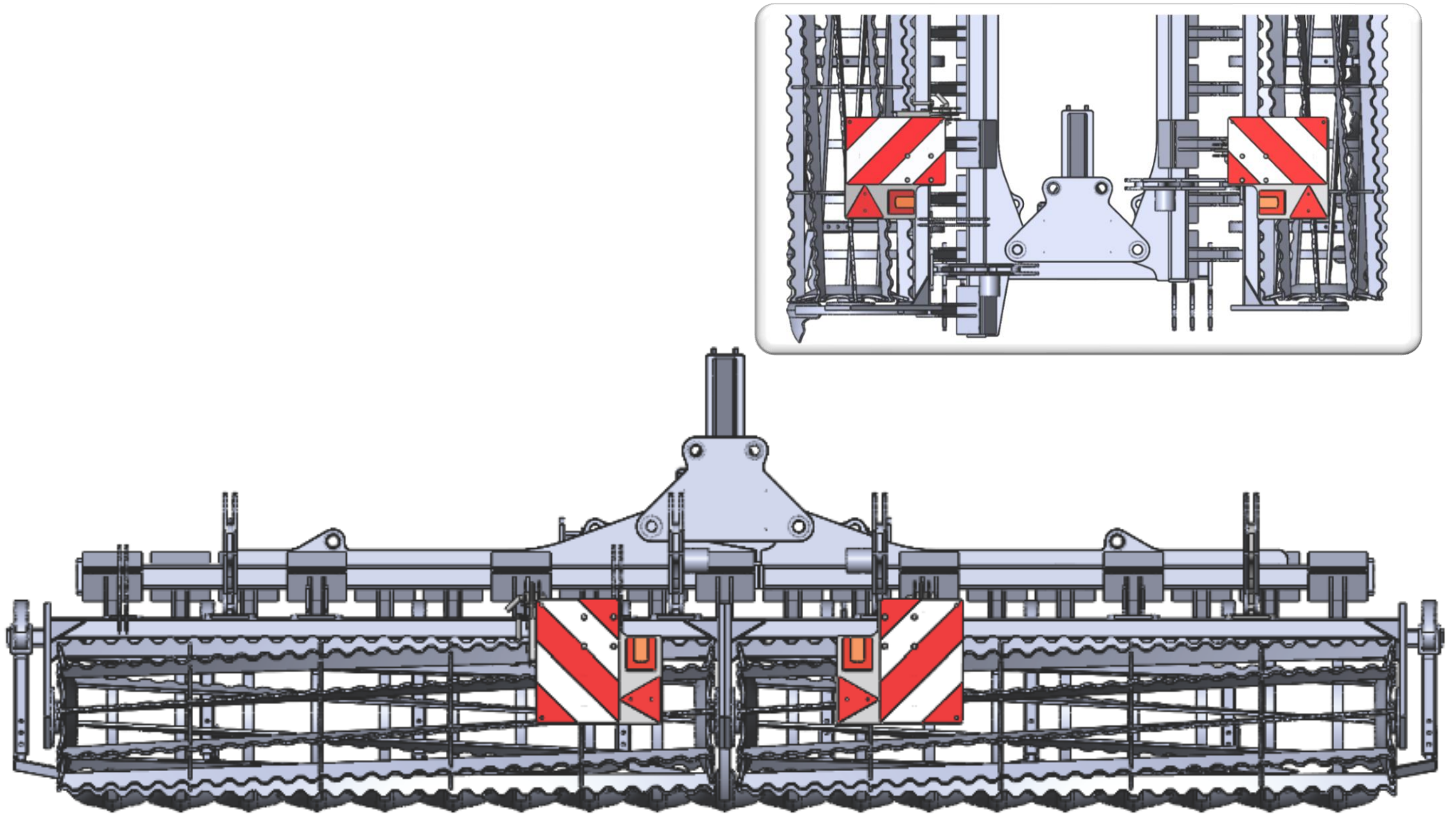
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000142	PANEL PLACA 423x282 (PAREJA) 1220128	60000370	TORN.EXAG.DIN-933 14* 35 8.8 ZINC.
51000250	KIT LUCES MAGNETICAS LED INALAMBRICAS 1216802	60000380	TUER.AUTO.DIN-985 6 8.8 ZINC.
51000276	TRIANGULO ROJO 04010	60000537	TORN.EXAG.DIN-933 4* 20 8.8 ZINC.
60000069	TORN.EXAG.DIN-931 12*110 8.8 ZINC. (RODILLO)	60000538	TUER.AUTO.DIN-985 4 8.8 ZINC.
60000081	TORN.EXAG.DIN-931 16* 70 8.8 ZINC.	61000077	ARAND.DIN-125 4 ZINC.
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.	62000037	PASADOR ANILLA 4,5 ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	70800900	SOP.SEÑAL.MCH
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	70800901	BRAZO SEÑAL.MCH
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	70800902	PLACA SOP.IZQDA.SEÑALIZACION MULTIPLE
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	70800904	PLACA SEÑALIZACION MULTIPLE
60000297	TORN.EXAG.DIN-931 6* 10 8.8 ZINC.	70800905	PLACA AMARRE.SOP.SEÑAL.MCH
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC. (RASTRA)	73204900	BULON D=16*150mm.REG.RDA.DOBLE



SIGNALING KIT V



SIGNALING KIT V



MCH	RODILLO	RASTRA	PEONES	AMARRES
2-11-V	3,00	11 + MOD1	-----	6T+5D
	3,30	12 + MOD1	-----	6T+5D
2-13-V	3,60	-----	-----	7T+6D
2-13-PV	2 x 1,90	7 + 8	2 x 765	7T+6D
2-15-PV	2 x 2,15	8 + 9	2 x 860	8T+7D
2-17-PV	2 x 2,40	9 + 10	2 x 765	9T+8D
2-19-PV	2 x 2,70	10 + 11	2 x 860	10T+9D
2-21-PV	2 x 3,00	11 + 12	2 x 765	11T+10D
2-23-PVL	-----	12 + 12	2 x 860	12T+11D
2-23-PV	3,03 + 3,30	12 + 13	2 x 700	12T+11D
2-25-PV	3,30 + 3,60	13 + 14	2 x 580	13T+12D
2-27-PV	3,60 + 3,80	14 + 14 + MOD1	2 x 700	14T+13D
3-13-V	3,00	11 + MOD1	-----	5T+1TD+1TI+6D
	3,30	12 + MOD1	-----	5T+1TD+1TI+6D
3-14-PV	-----	12 + MOD1	-----	6T+1TD+1TI+6D
3-16-PV	1,90 + 1,95	7 + 8	580 + 925	6T+1TD+2TI+6D+1DD
3-19-PV	2 x 2,30	9 + 9		8T+1TD+1TI+7D+1DI+1DD
3-22-PV	2,55 + 2,70	10 + 10 + MOD1		11T+1TI+7D+1DI+2DD
3-25-PV	2 x 3,00	12 + 11		9T+2TD+2TI+12D
3-28-PV	2 x 3,30	12 + 12 + MOD3	420 + 765	12T+1TD+2TI+12D+1DD
3-31-PV	2 x 3,60	14 + 14		14T+1TD+1TI+13D+1DD+1DI







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