

# XLANDER

REV. 2024



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**

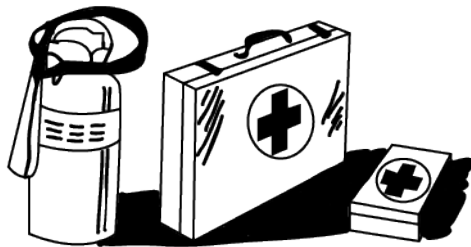
Before starting to work, read the instructions in the manual.

**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.



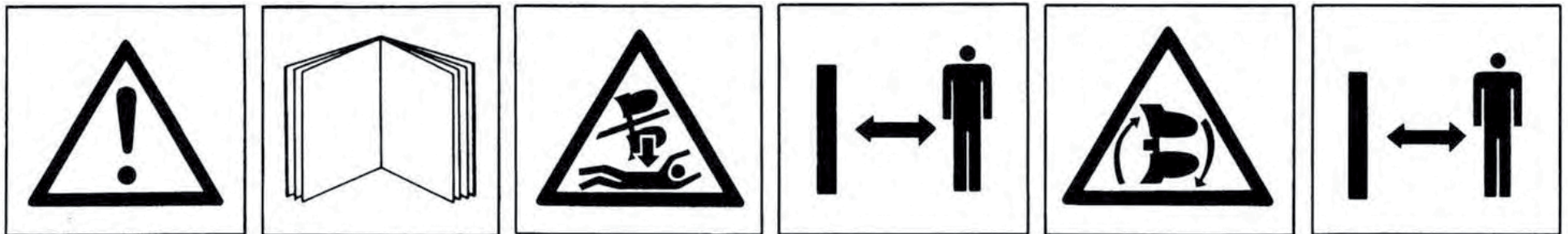
**To be ready in case of an emergency**

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+20CO<sub>2</sub> 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.

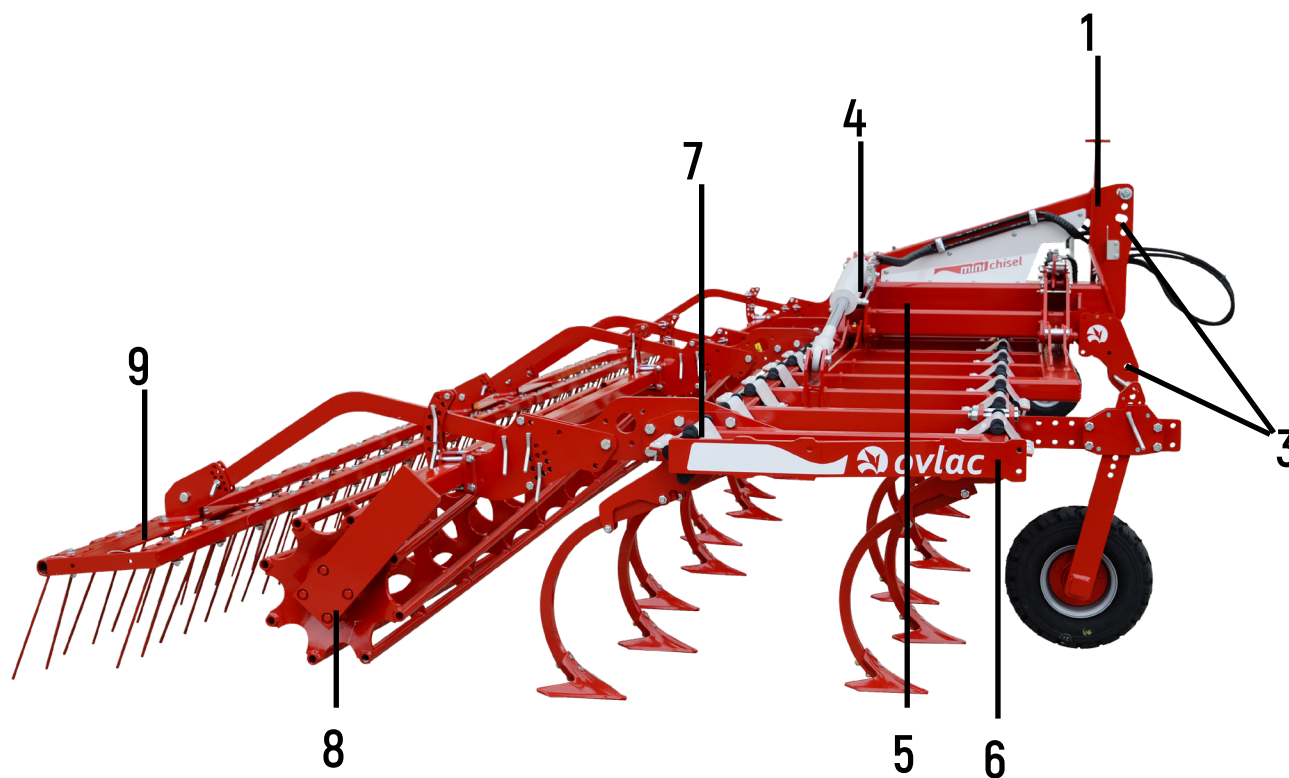


## 2.- Description and Technical Data

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.

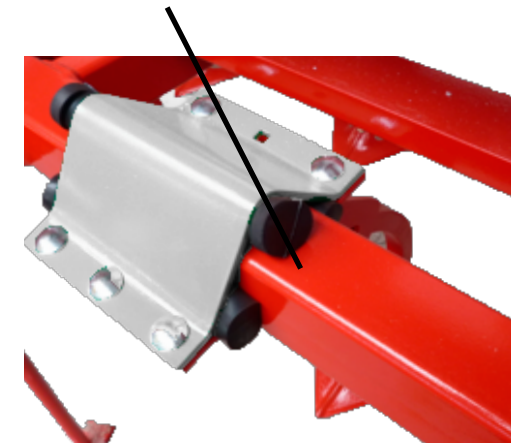
This way, every impact caued by uneven terrain will be absorbed by the security system, which protects the elements of the machine, and therefore, also the tractor.

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

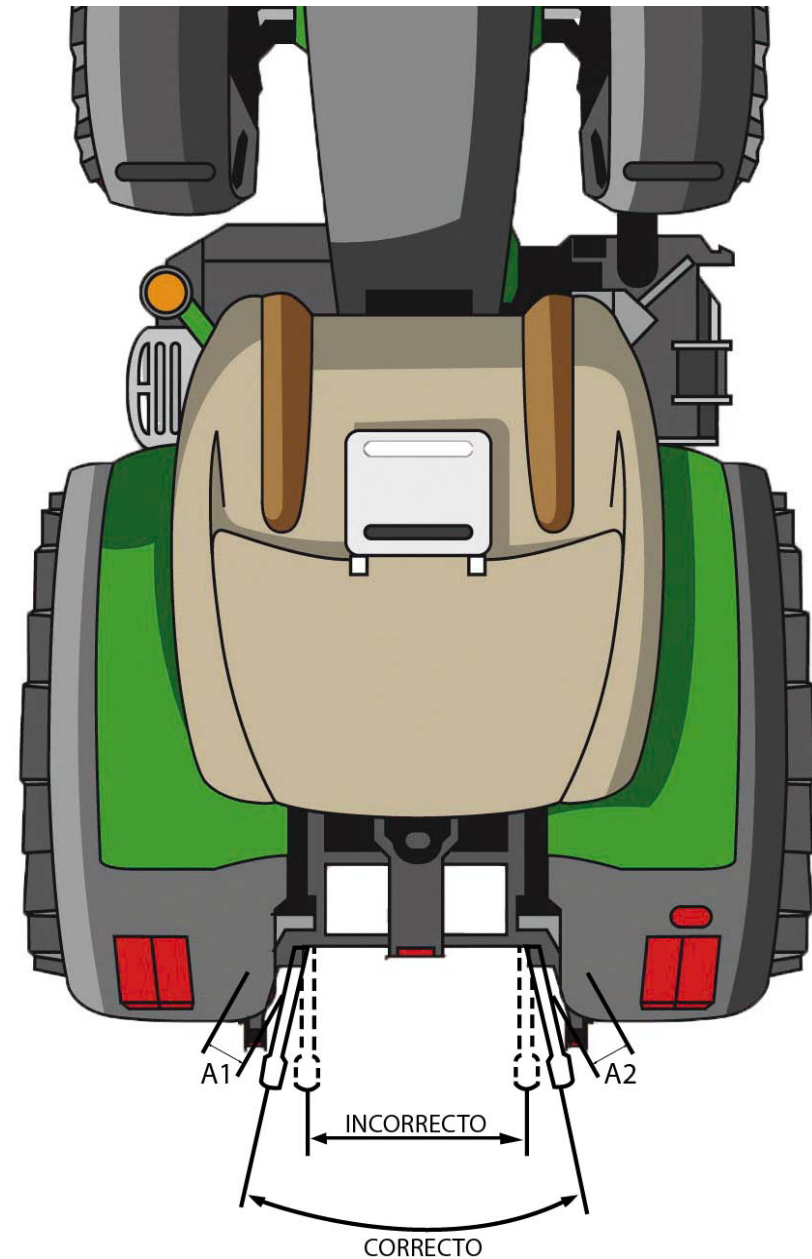
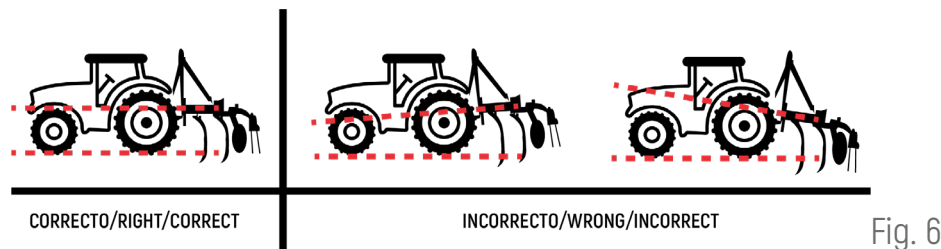


Fig. 4



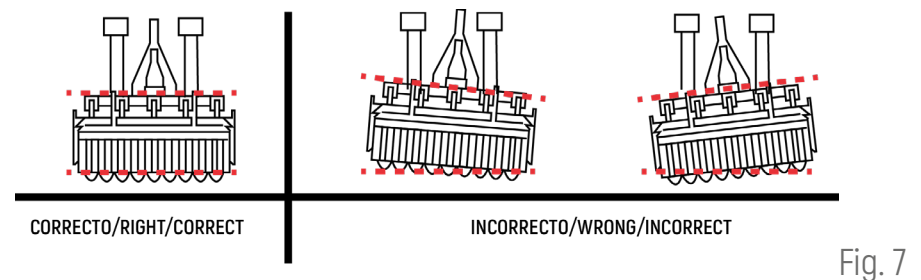
## 4.3 - Other adjustments

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)



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.



## 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



B

Fig. 7



C

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.

In the transport position, a speed of 25 km/h must never be exceeded. If necessary, the tyre pressure must be checked in accordance with the manufacturer's instructions on the sidewall of the tyre.



Fig. 10



Fig. 11

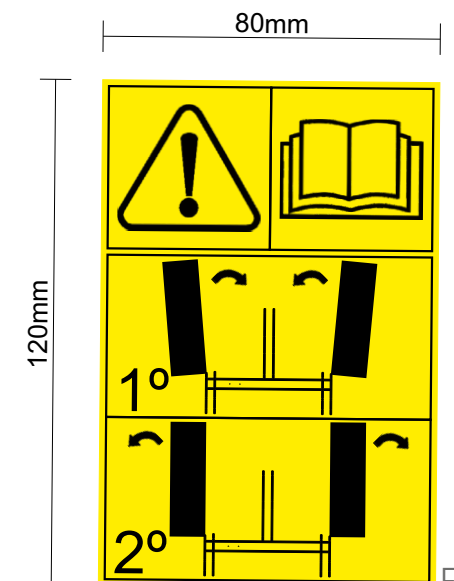


Fig. 12



# 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.

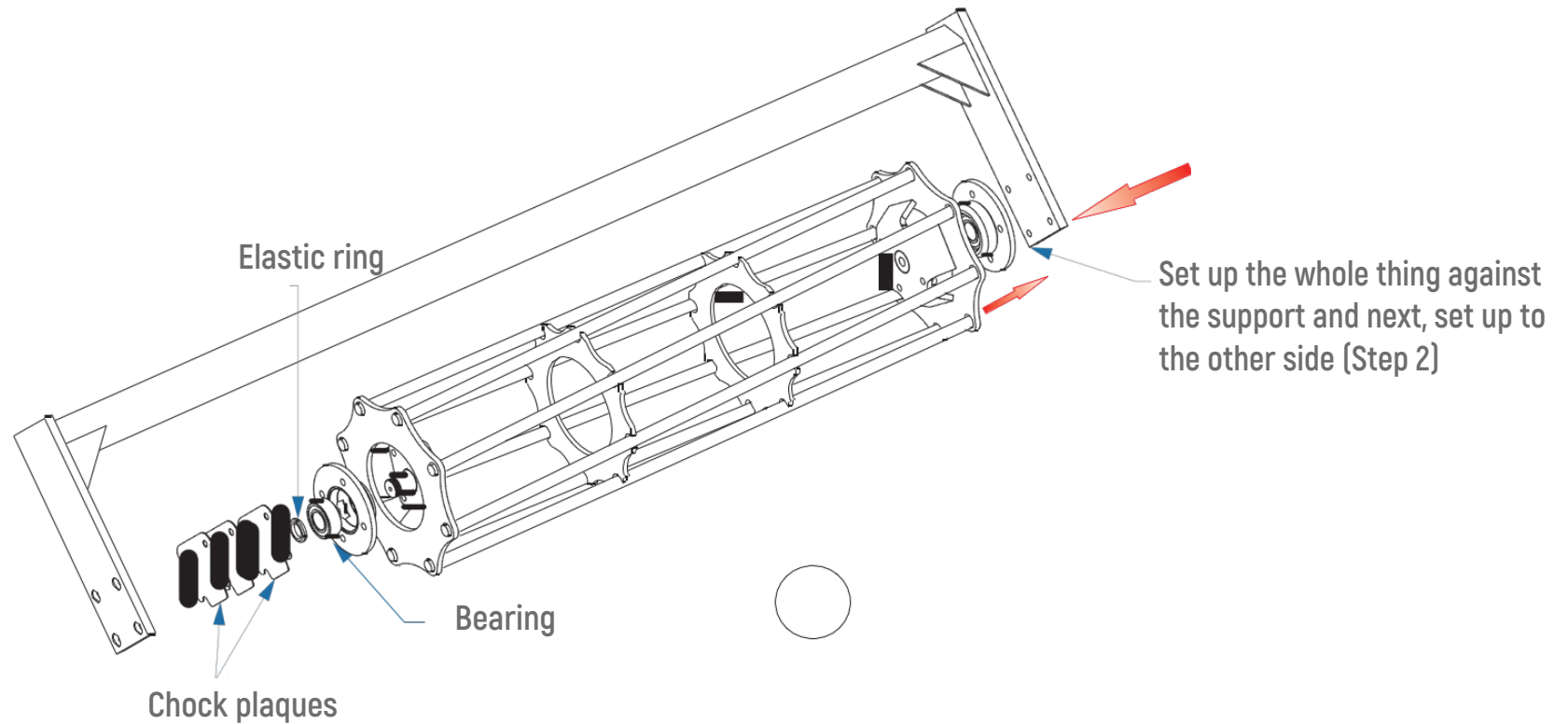
Maintenance of hydraulic cylinders. **IMPORTANT:** keep the plugs clean. Abrasive particles, such as sand, metal sharps, may damage the cylinders, causing inner leaks. Once unplugged off the tractor, place the protection bolts and make sure they're not touching the ground.





## 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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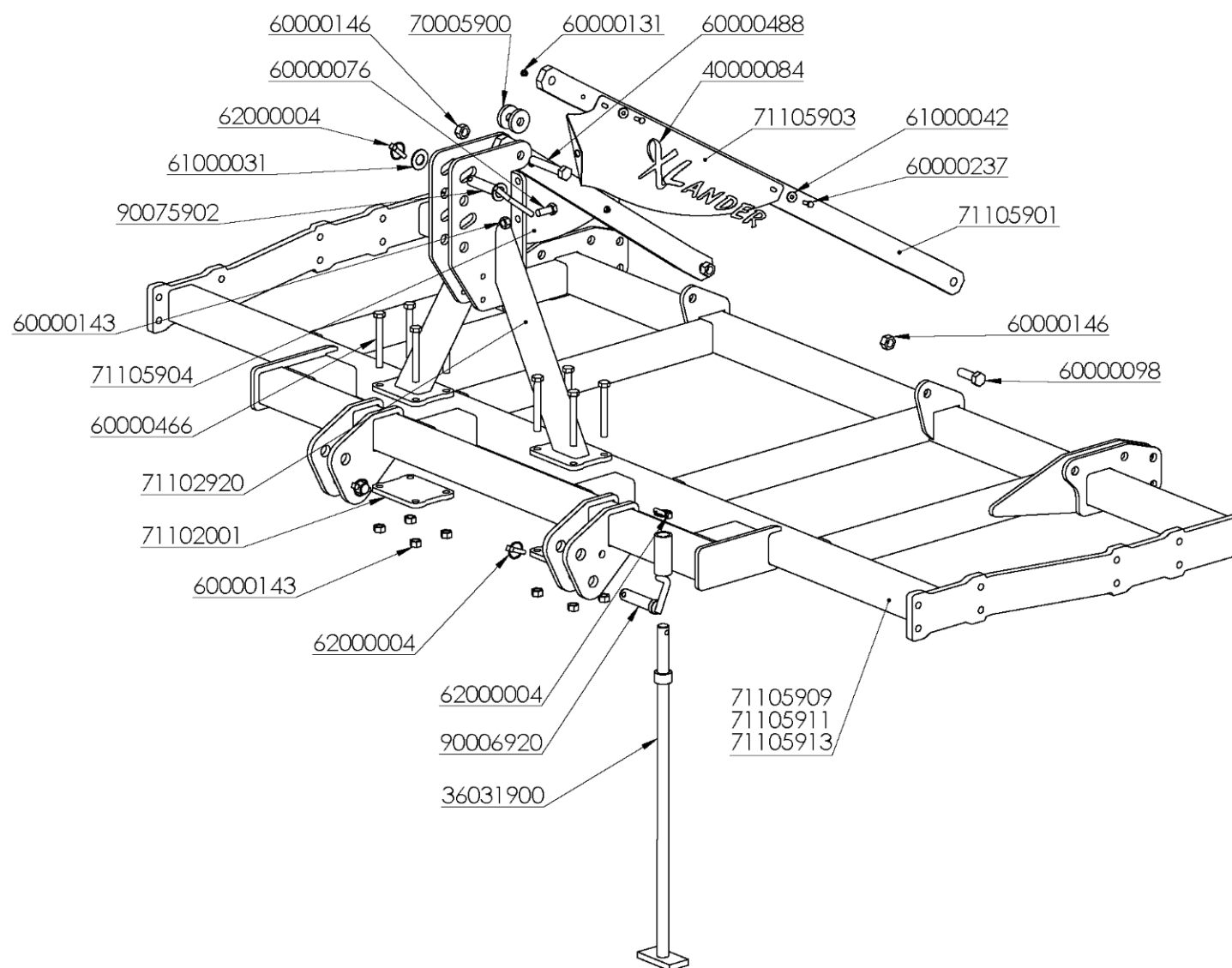
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## FRAME FIX 2F

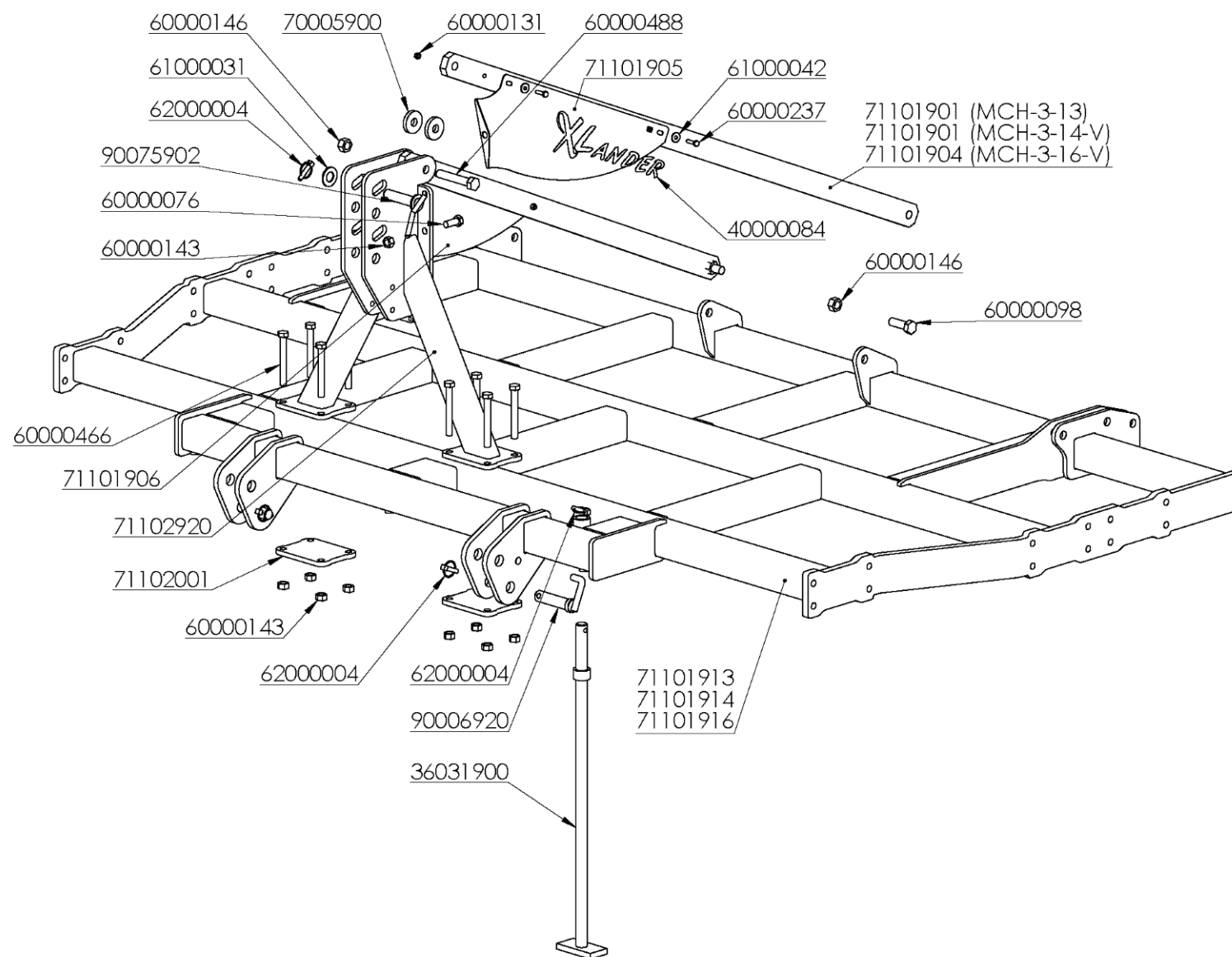


## FRAME FIX 2F

| REFERENCIA | DESCRIPCIÓN                                    | REFERENCIA | DESCRIPCIÓN                                 |
|------------|------------------------------------------------|------------|---------------------------------------------|
| 36031900   | PEON MINI/MCH-35                               | 62000004   | PASADOR ANILLA 10 ZINC.                     |
| 40000084   | ADHESIVO TROQUELADO XLANDER                    | 70005900   | ARAND.RFZO.D= 58*21 E-9,5mm.                |
| 60000076   | TORN.EXAG.DIN-933 16* 40 8.8 ZINC.             | 71102001   | PLACA AMARRE TORRETA MCH (D/17)             |
| 60000098   | TORN.EXAG.DIN-931 20* 60 8.8                   | 71102920   | TORRETA MCH FIJO (D/17)                     |
| 60000131   | TUER.AUTO.DIN-980 8 8.8 ZINC.                  | 71105901   | TIRANTE XLANDER-2-V P/EMBELLECEDOR          |
| 60000143   | TUER.AUTO.DIN-980 16 8.8 ZINC.                 | 71105903   | EMBELLECEDOR IZQDO.XLANDER-2-V              |
| 60000146   | TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE | 71105904   | EMBELLECEDOR DCHO.XLANDER-2-V               |
| 60000237   | TORN.EXAG.DIN-933 8* 35 8.8 ZINC.              | 71105909   | BAST.MCH-2-9-V (D/17)                       |
| 60000466   | TORN.EXAG.DIN-931 16*130 12.9 ZINC.            | 71105911   | BAST.MCH-2-11-V (D/17)                      |
| 60000488   | TORN.EXAG.C/LAR. 20*112 12.9                   | 71105913   | BAST.MCH-2-13-V (D/17)                      |
| 61000031   | ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)     | 90006920   | BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV |
| 61000042   | ARAND.DIN-9021 8 ZINC.                         | 90075902   | BULON D=25*110mm.3er.PTO.CAT.II ZINC.       |



# FRAME FIX 3F

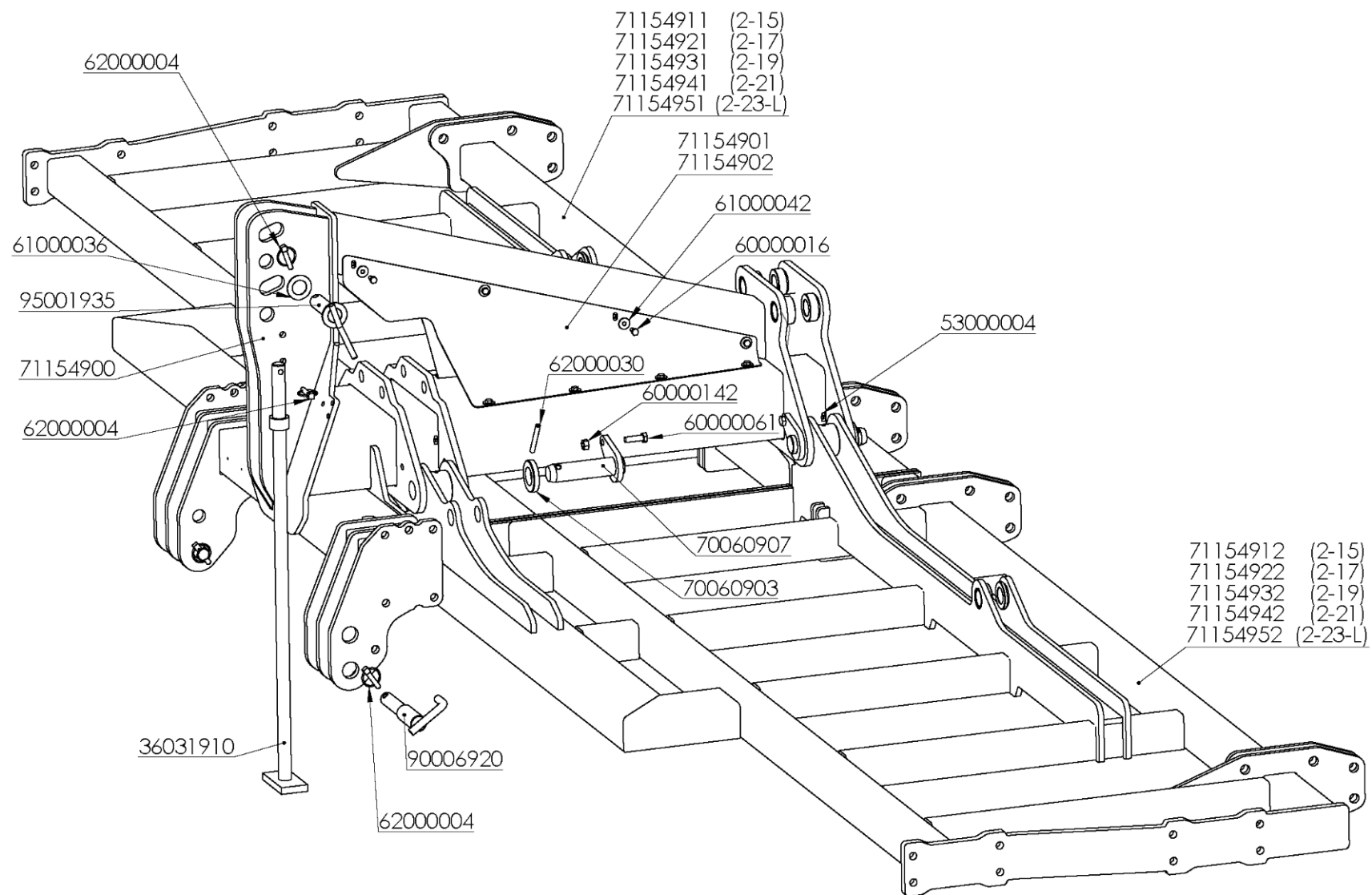


## FRAME FIX 3F

| REFERENCIA | DESCRIPCIÓN                                    | REFERENCIA | DESCRIPCIÓN                                 |
|------------|------------------------------------------------|------------|---------------------------------------------|
| 36031900   | PEON MINI/MCH-35                               | 70005900   | ARAND.RFZO.D= 58*21 E-9,5mm.                |
| 40000084   | ADHESIVO TROQUELADO XLANDER                    | 71101901   | TIRANTE MCH-3-13/14-V P/EMBELLECEDOR        |
| 60000076   | TORN.EXAG.DIN-933 16* 40 8.8 ZINC.             | 71101904   | TIRANTE MCH-3-16-V P/EMBELLECEDOR           |
| 60000098   | TORN.EXAG.DIN-931 20* 60 8.8                   | 71101905   | EMBELLECEDOR IZQDO.XLANDER-3-V              |
| 60000131   | TUER.AUTO.DIN-980 8 8.8 ZINC.                  | 71101906   | EMBELLECEDOR DCHO.XLANDER-3-V               |
| 60000143   | TUER.AUTO.DIN-980 16 8.8 ZINC.                 | 71101913   | BAST.MCH-3-13-V (D/17)                      |
| 60000146   | TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE | 71101914   | BAST.MCH-3-14-V (D/17)                      |
| 60000237   | TORN.EXAG.DIN-933 8* 35 8.8 ZINC.              | 71101916   | BAST.MCH-3-16-V (D/17)                      |
| 60000466   | TORN.EXAG.DIN-931 16*130 12.9 ZINC.            | 71102001   | PLACA AMARRE TORRETA MCH (D/17)             |
| 60000488   | TORN.EXAG.C/LAR. 20*112 12.9                   | 71102920   | TORRETA MCH FIJO (D/17)                     |
| 61000031   | ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)     | 90006920   | BULON D=36/28*205mm.ENG.MAXIDISC/VBC/MCH-PV |
| 61000042   | ARAND.DIN-9021 8 ZINC.                         | 90075902   | BULON D=25*110mm.3er.PTO.CAT.II ZINC.       |
| 62000004   | PASADOR ANILLA 10 ZINC.                        |            |                                             |



# FRAME MCH-2 PV LIGHT



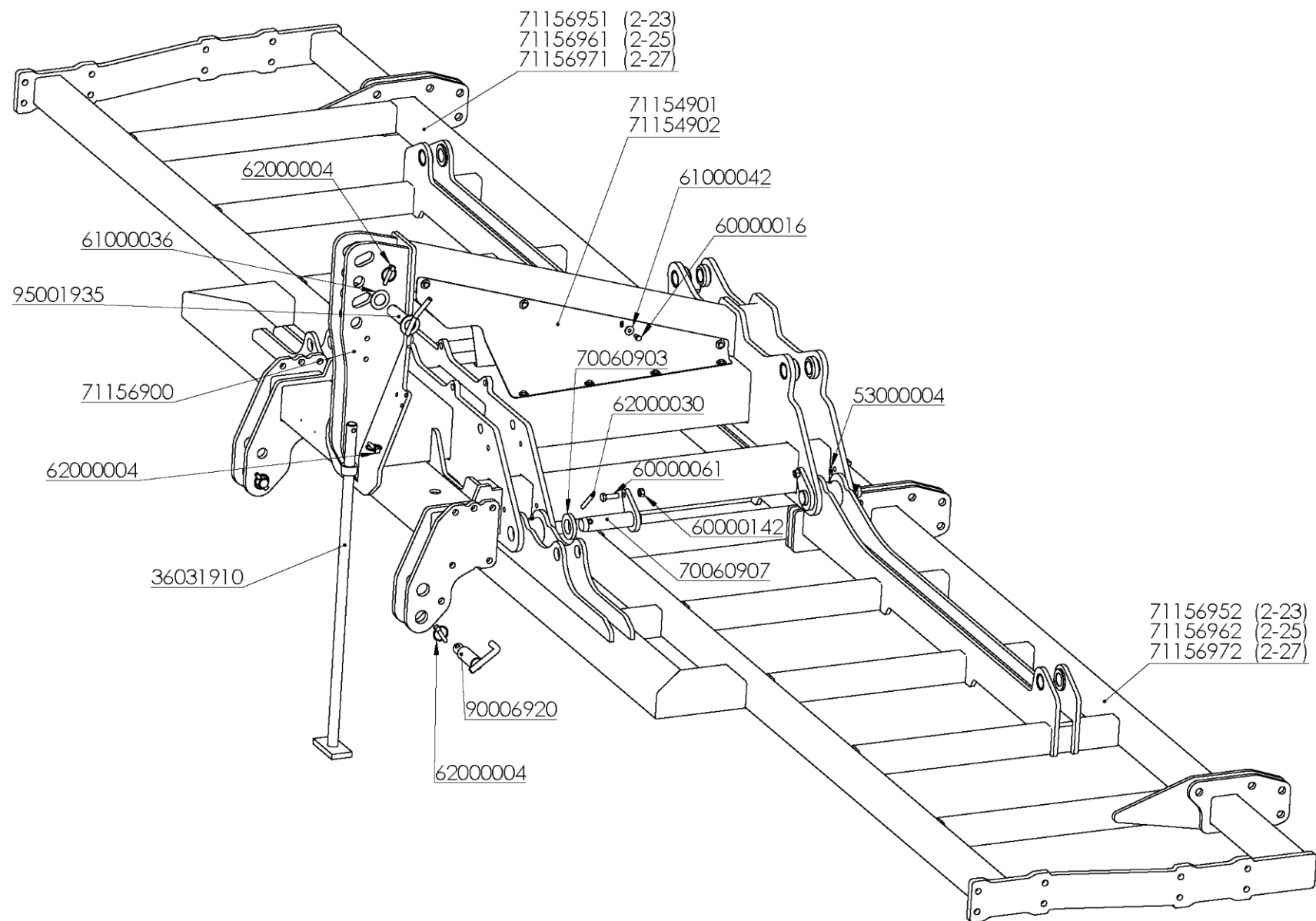


## FRAME MCH-2 PV LIGHT

| REFERENCIA | DESCRIPCIÓN                          | REFERENCIA | DESCRIPCIÓN                                    |
|------------|--------------------------------------|------------|------------------------------------------------|
| 36031910   | PEON MCH-18                          | 71154902   | EMBELLECEDOR IZQDO.MCH-2                       |
| 53000004   | ENGRASADOR AC° DIN-71412 8*125       | 71154911   | BAST.LATERAL DCH. MCH-2-15 P.V. (D/17)         |
| 60000016   | TORN.EXAG.DIN-933 8* 16 8.8 ZINC.    | 71154912   | BAST.LATERAL IZQDO. MCH-2-15 P.V. (D/17)       |
| 60000061   | TORN.EXAG.DIN-933 12* 40 8.8 ZINC.   | 71154921   | BAST.LATERAL DCH. MCH-2-17 P.V. (D/17)         |
| 60000142   | TUER.AUTO.DIN-980 12 8.8 ZINC.       | 71154922   | BAST.LATERAL IZQDO. MCH-2-17 P.V. (D/17)       |
| 61000036   | ARAND.ESTANDAR-A 32 ZINC.            | 71154931   | BAST.LATERAL DCH. MCH-2-19 P.V. (D/17)         |
| 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

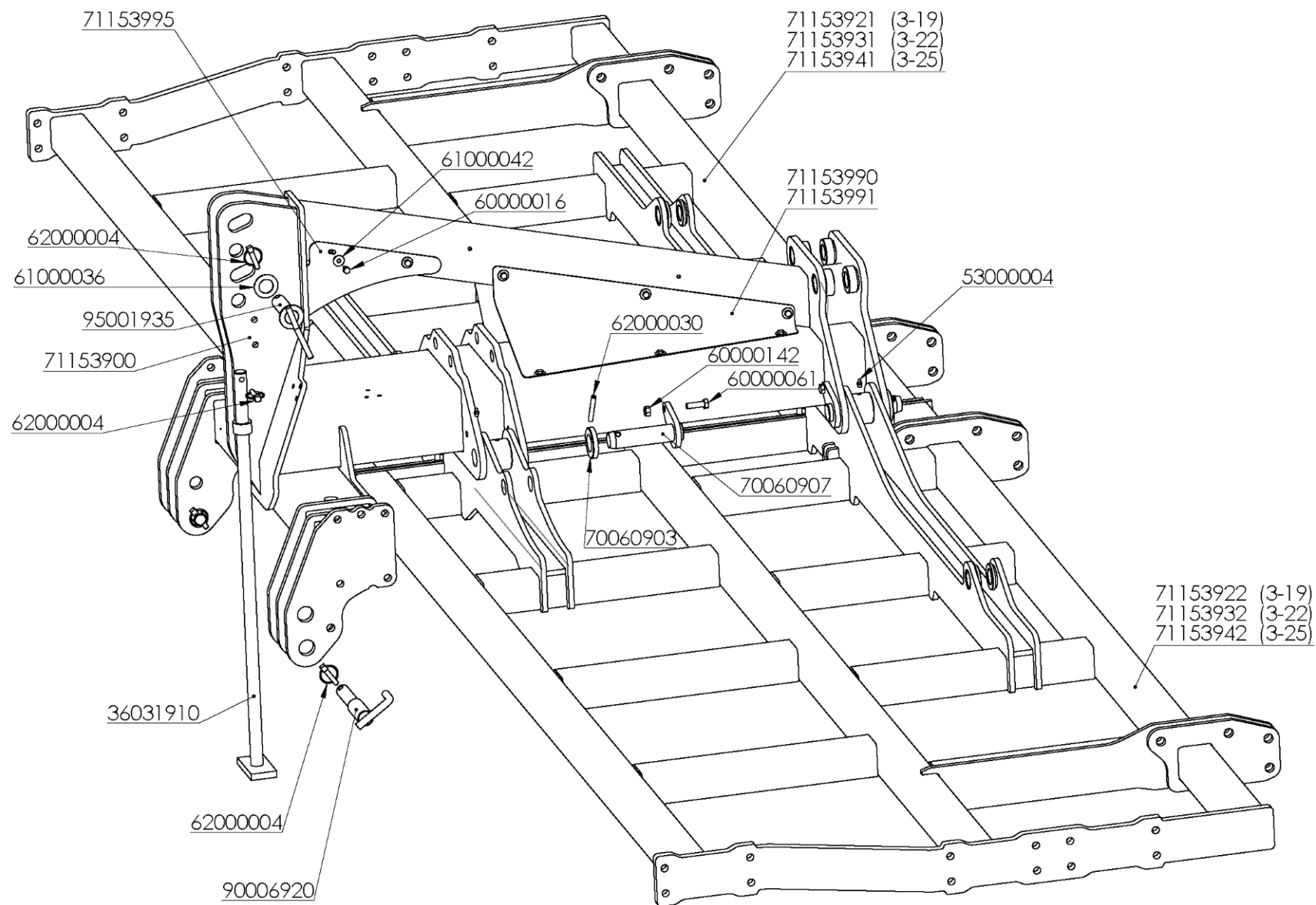


## FRAME MCH-2 PV HEAVY

| REFERENCIA | DESCRIPCIÓN                          | REFERENCIA | DESCRIPCIÓN                                    |
|------------|--------------------------------------|------------|------------------------------------------------|
| 36031910   | PEON MCH-18                          | 71154901   | EMBELLECEDOR DCHO.MCH-2                        |
| 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

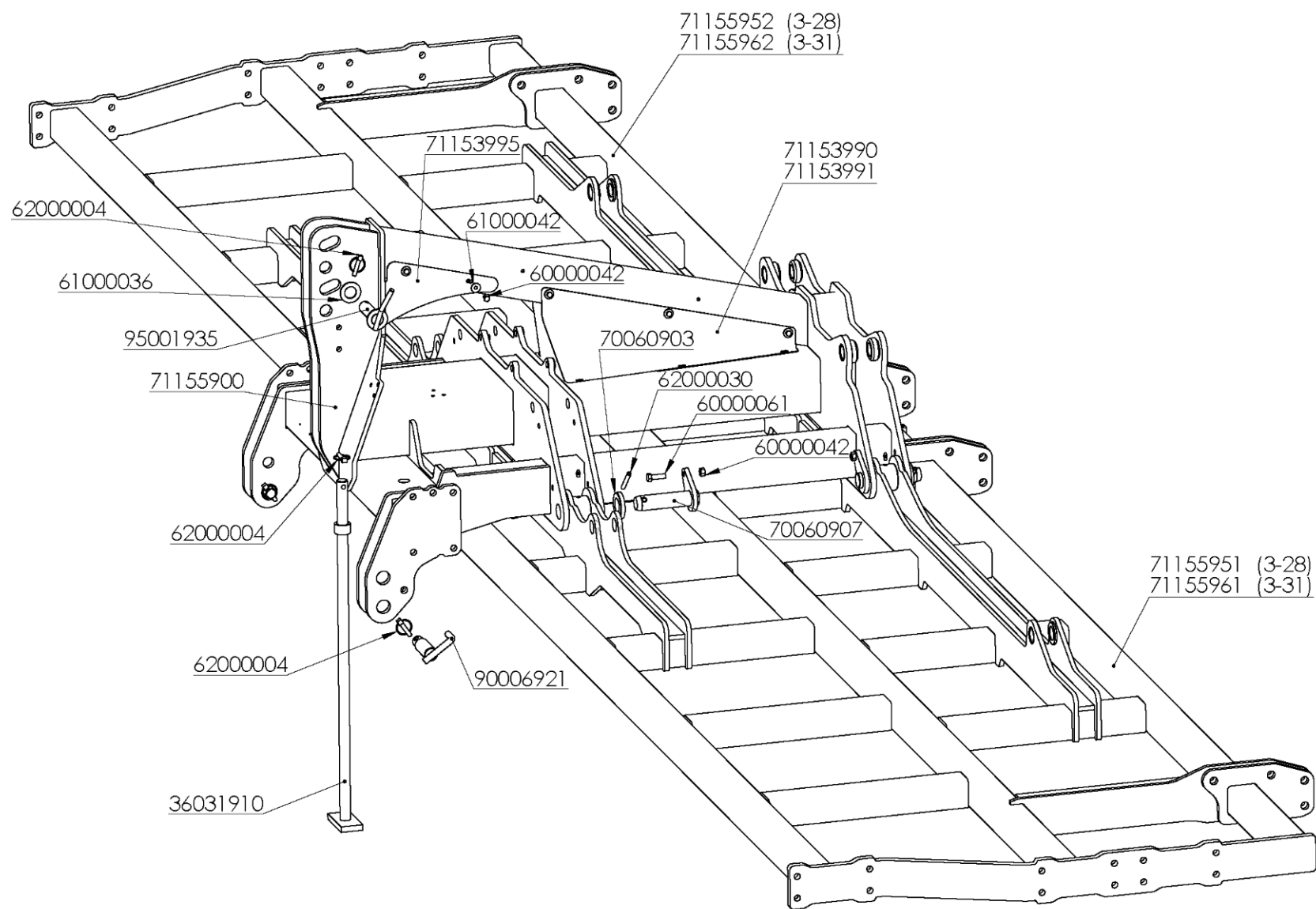


## FRAME MCH-3 PV LIGHT

| 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



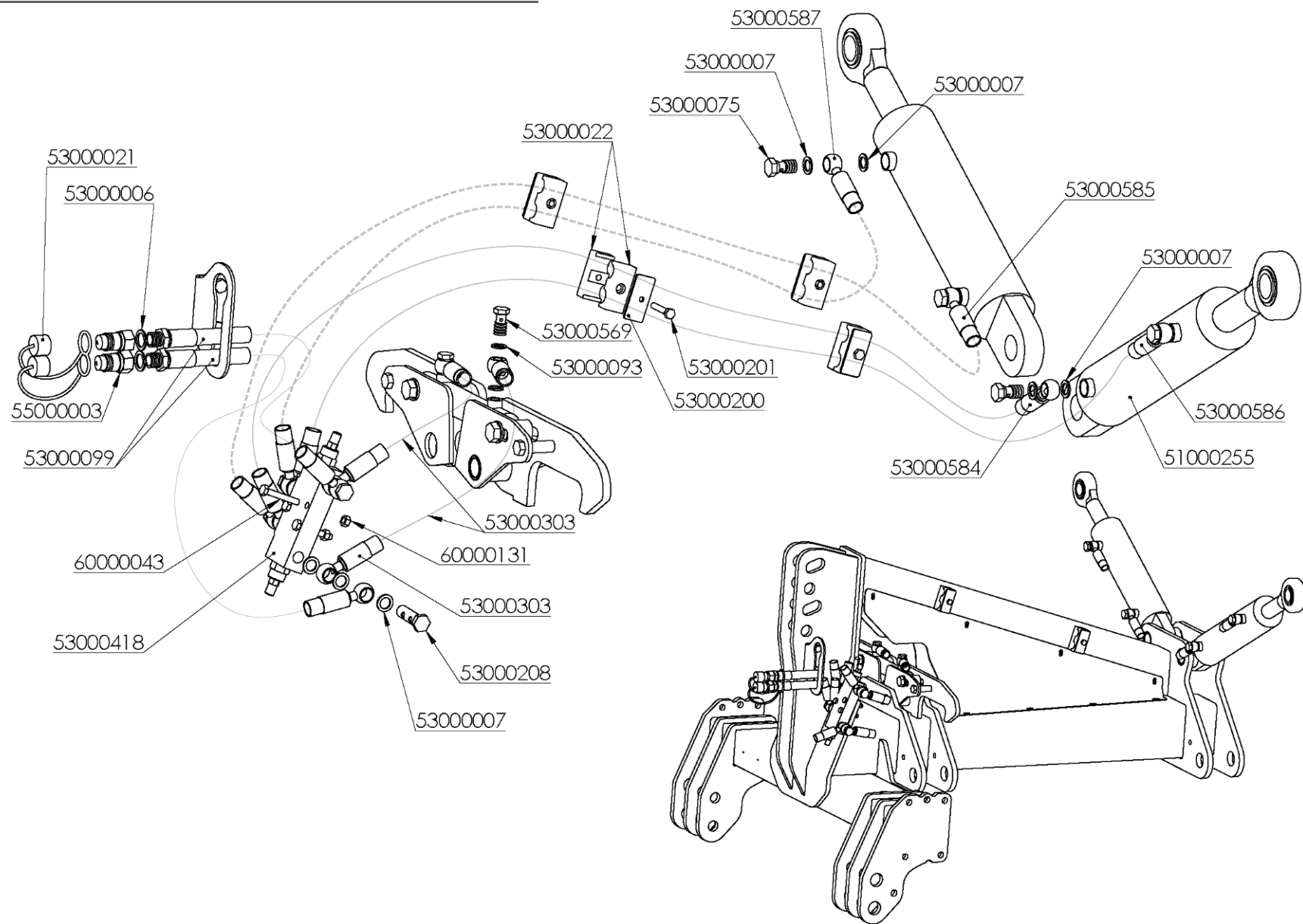


## FRAME MCH-3 PV HEAVY

| 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

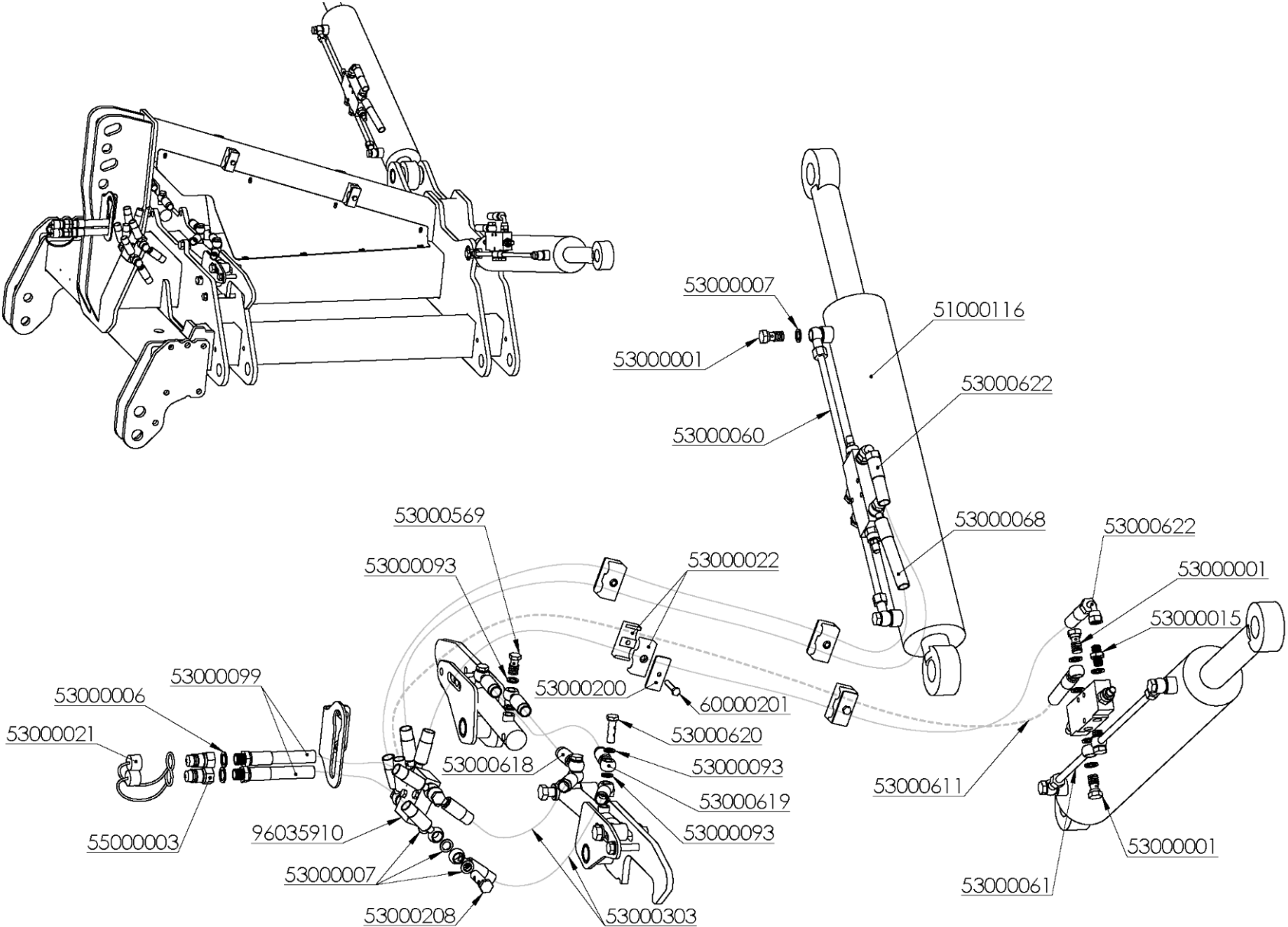


## HYDRAULIC SYSTEM MCH-2-PV LIGHT

| 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.DOUBLE 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.DOUBLE 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

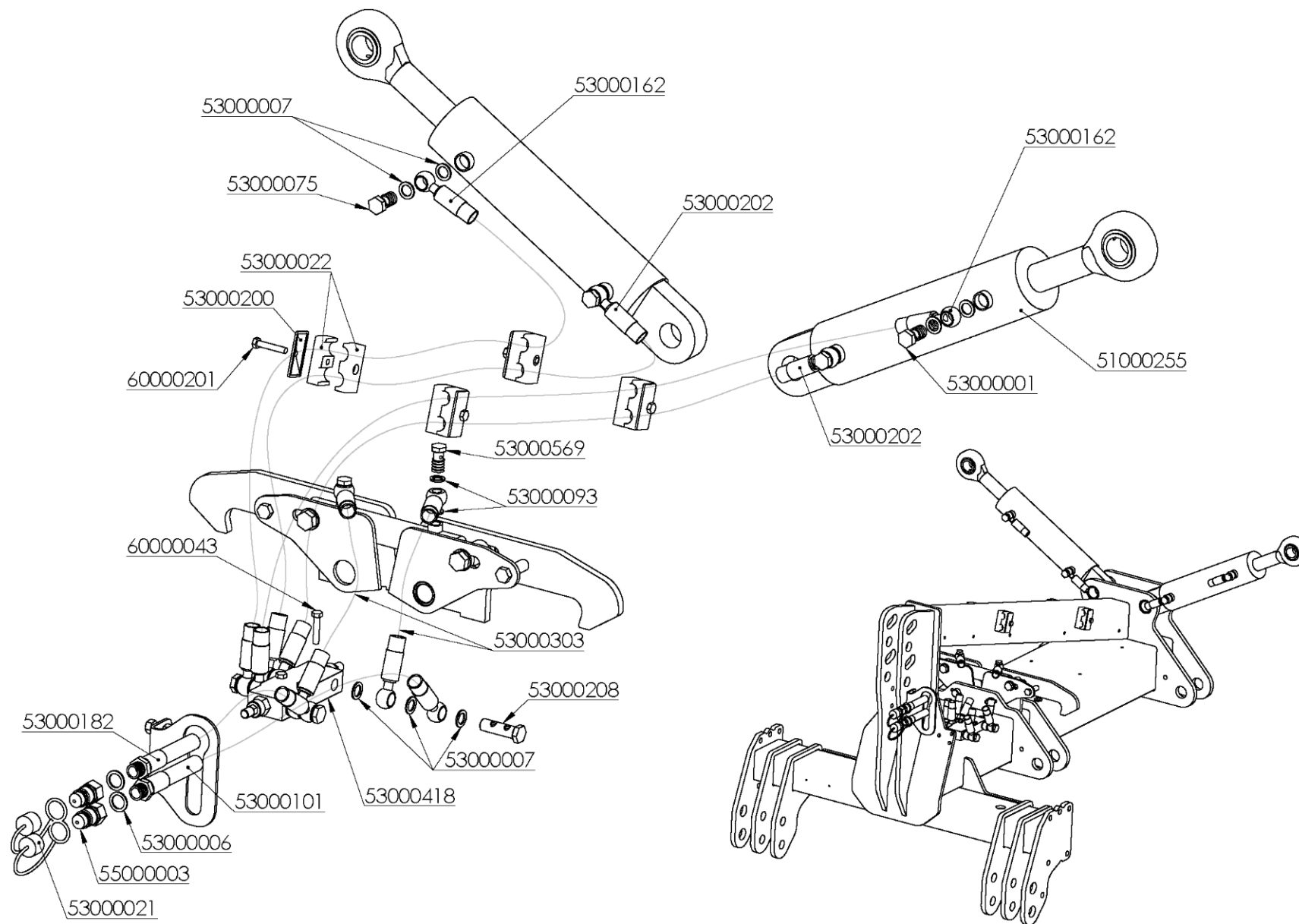


## HYDRAULIC SYSTEM MCH-2-PV HEAVY

| 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



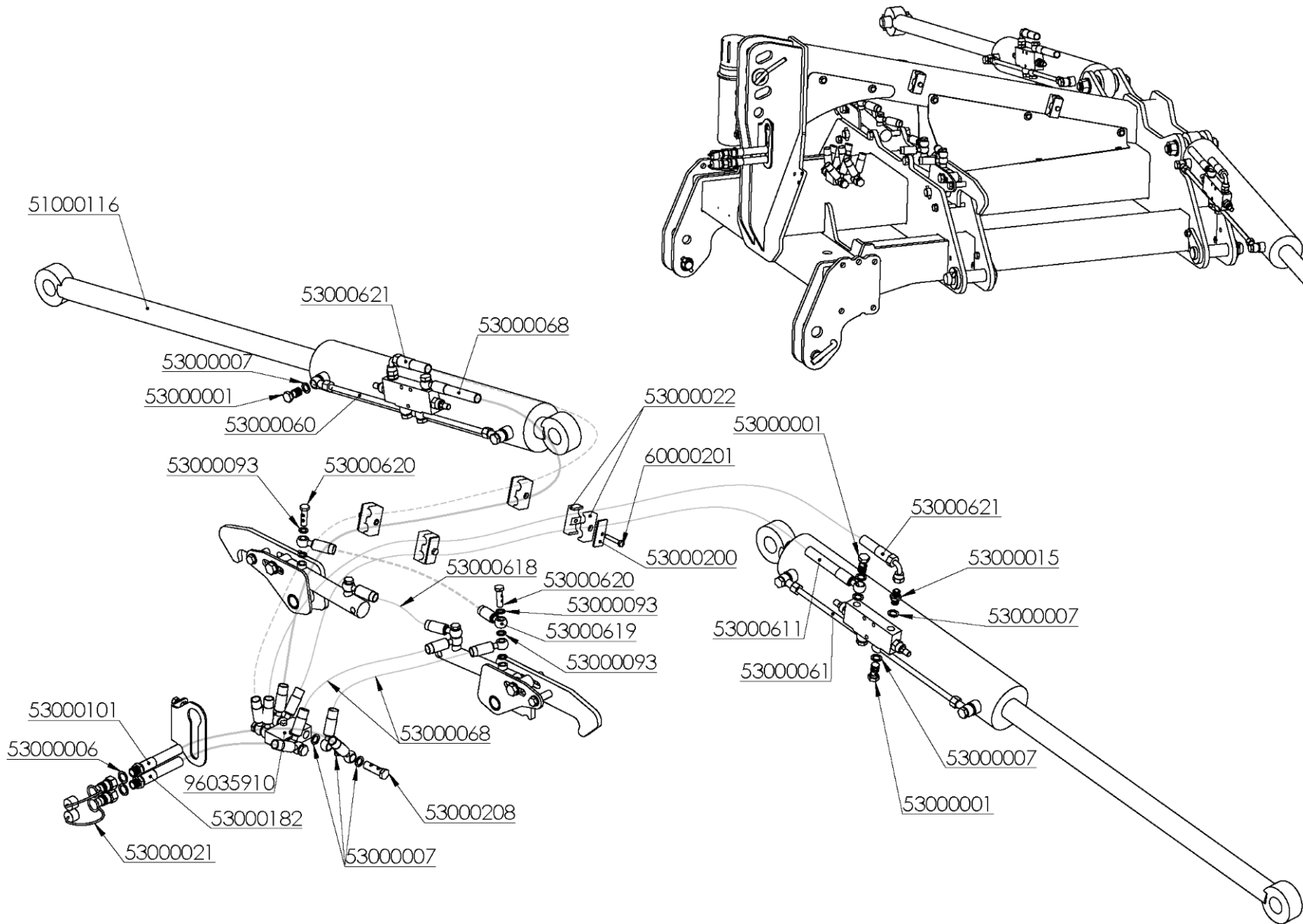
## HYDRAULIC SYSTEM MCH-3-PV LIGHT

| 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

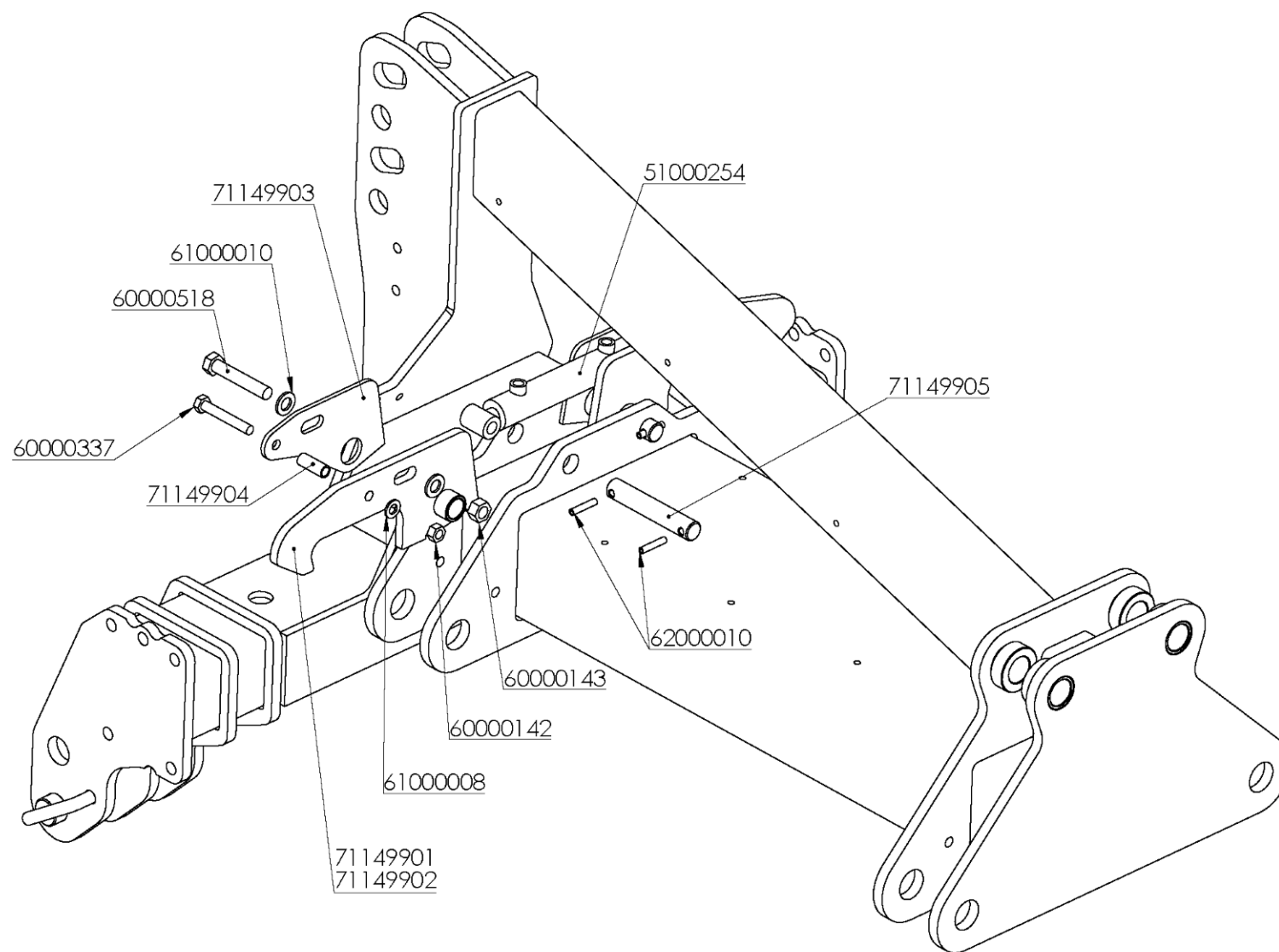


## HYDRAULIC SYSTEM MCH-3-PV HEAVY

| 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

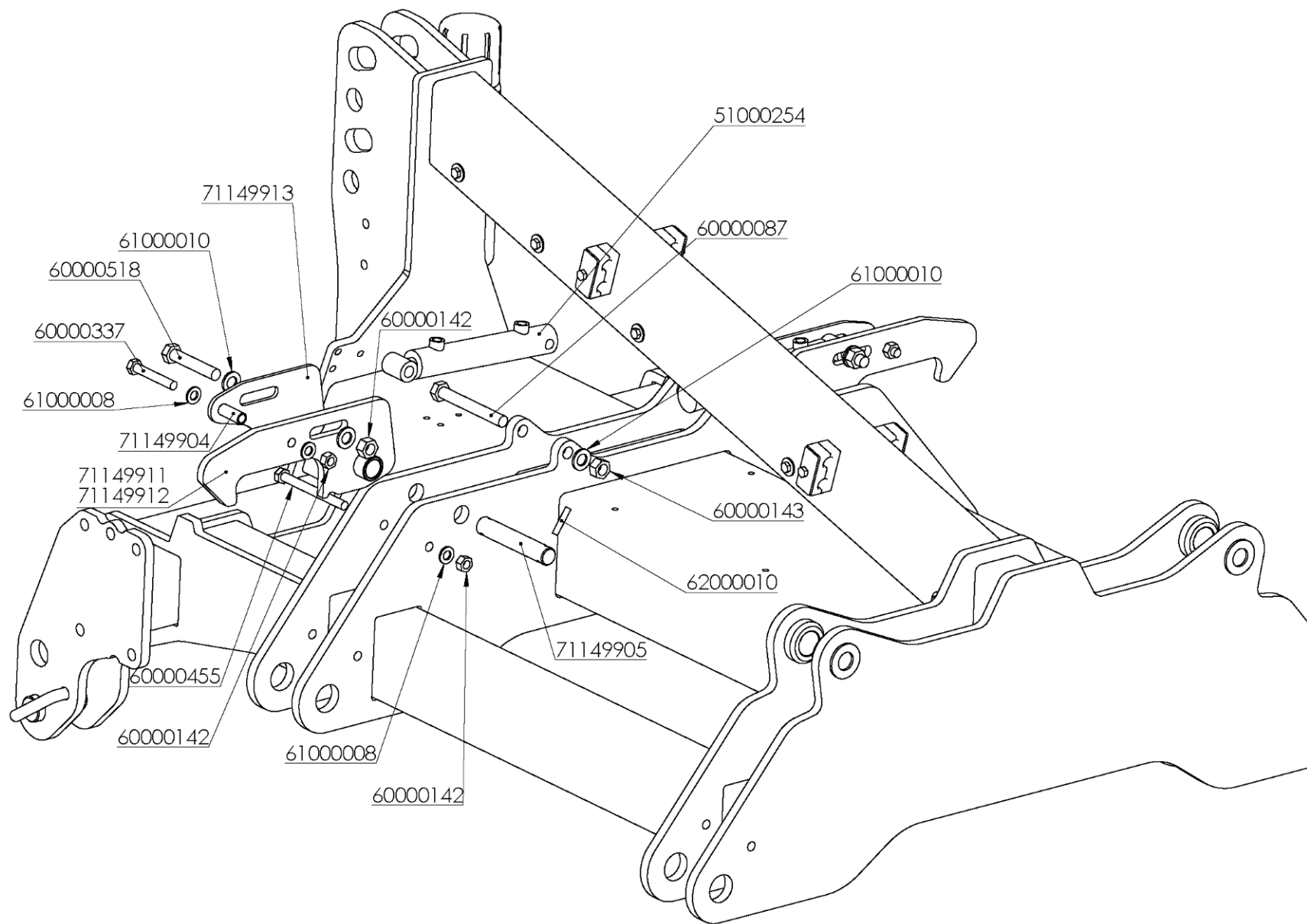


## AUTOMATIC LOCK LIGHT

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



## AUTOMATIC LOCK HEAVY

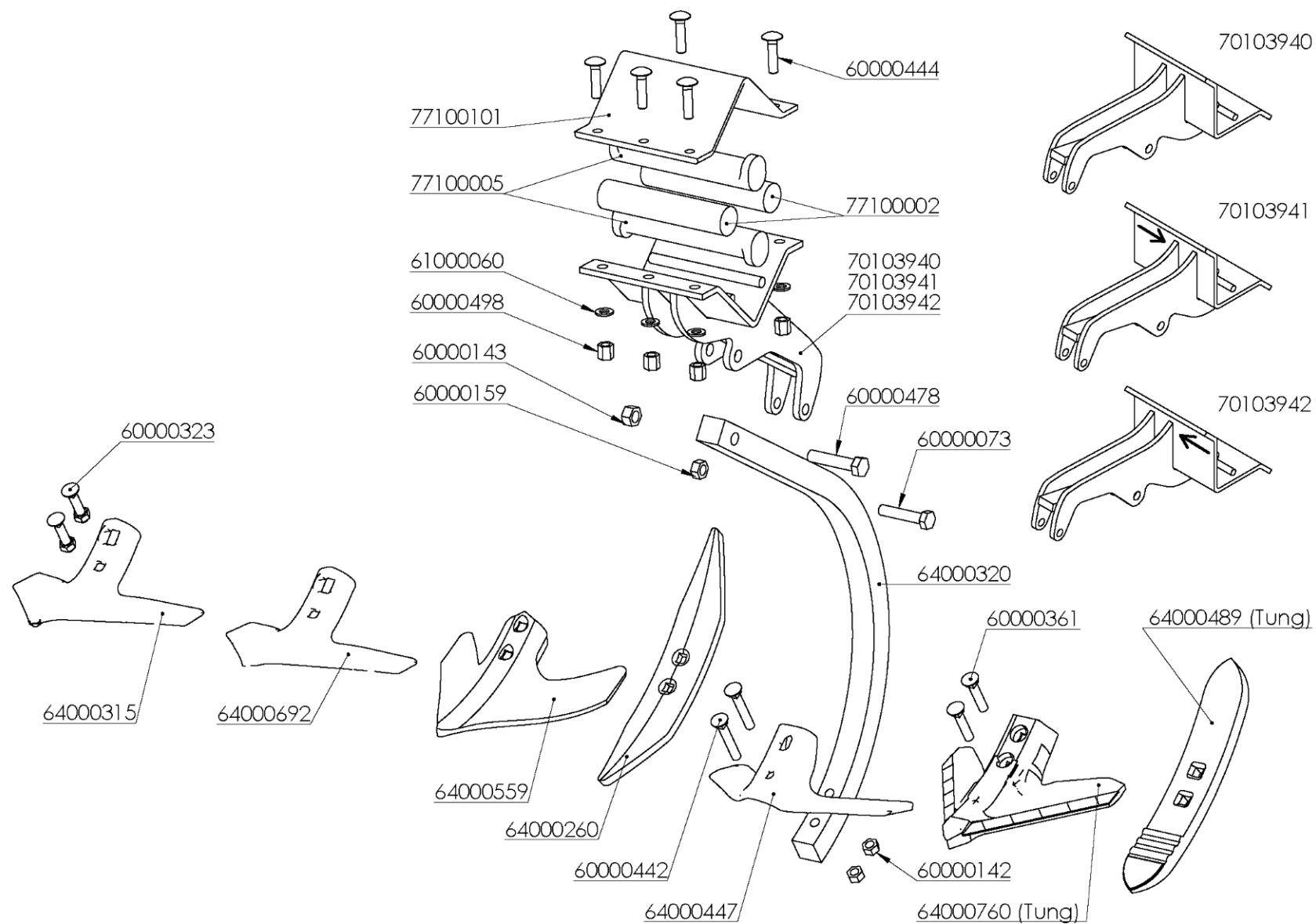


# AUTOMATIC LOCK HEAVY

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



# BODY MCH



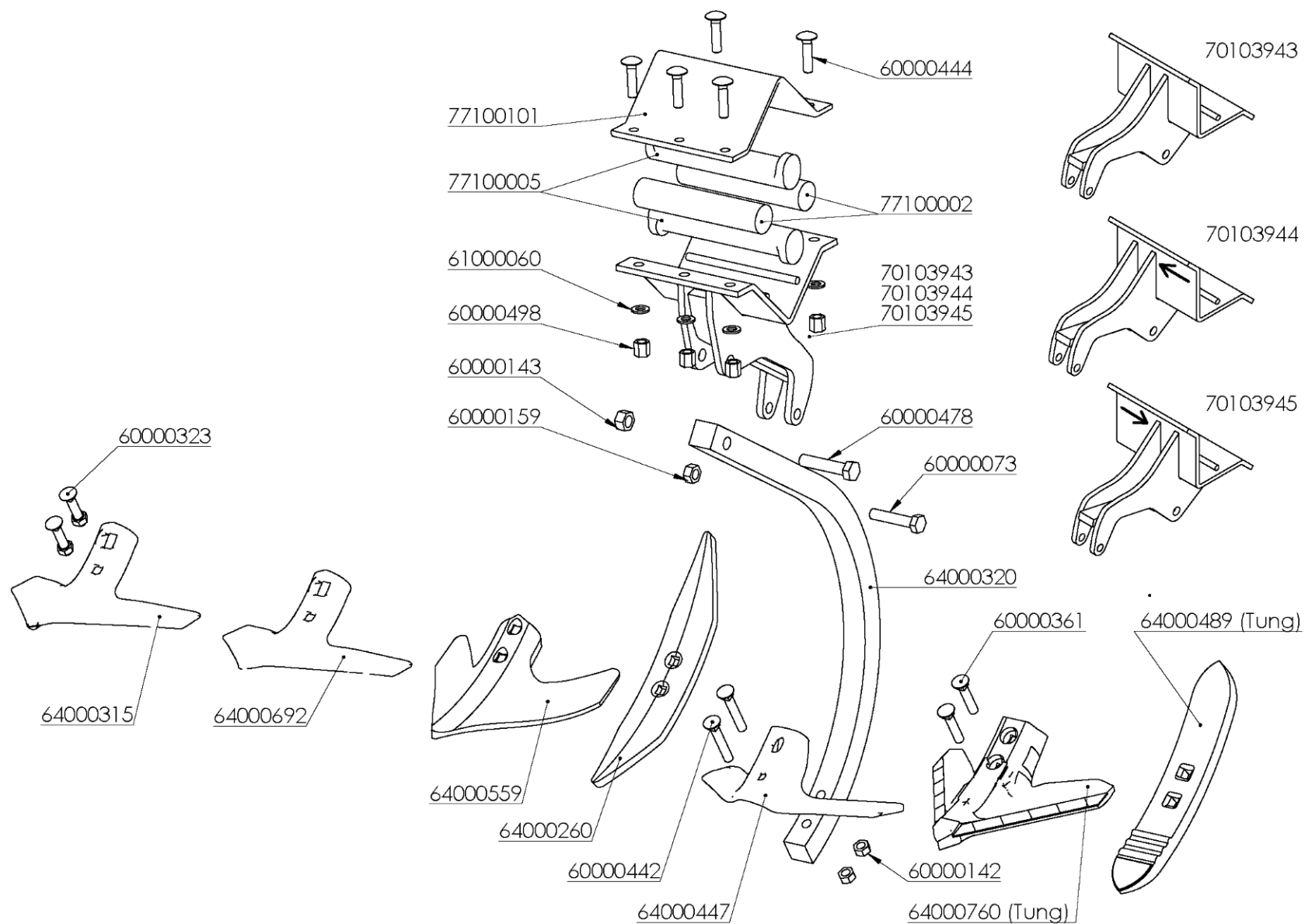


## BODY MCH

| 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.   |            |                                                    |



# BODY MCH-ADVANCED

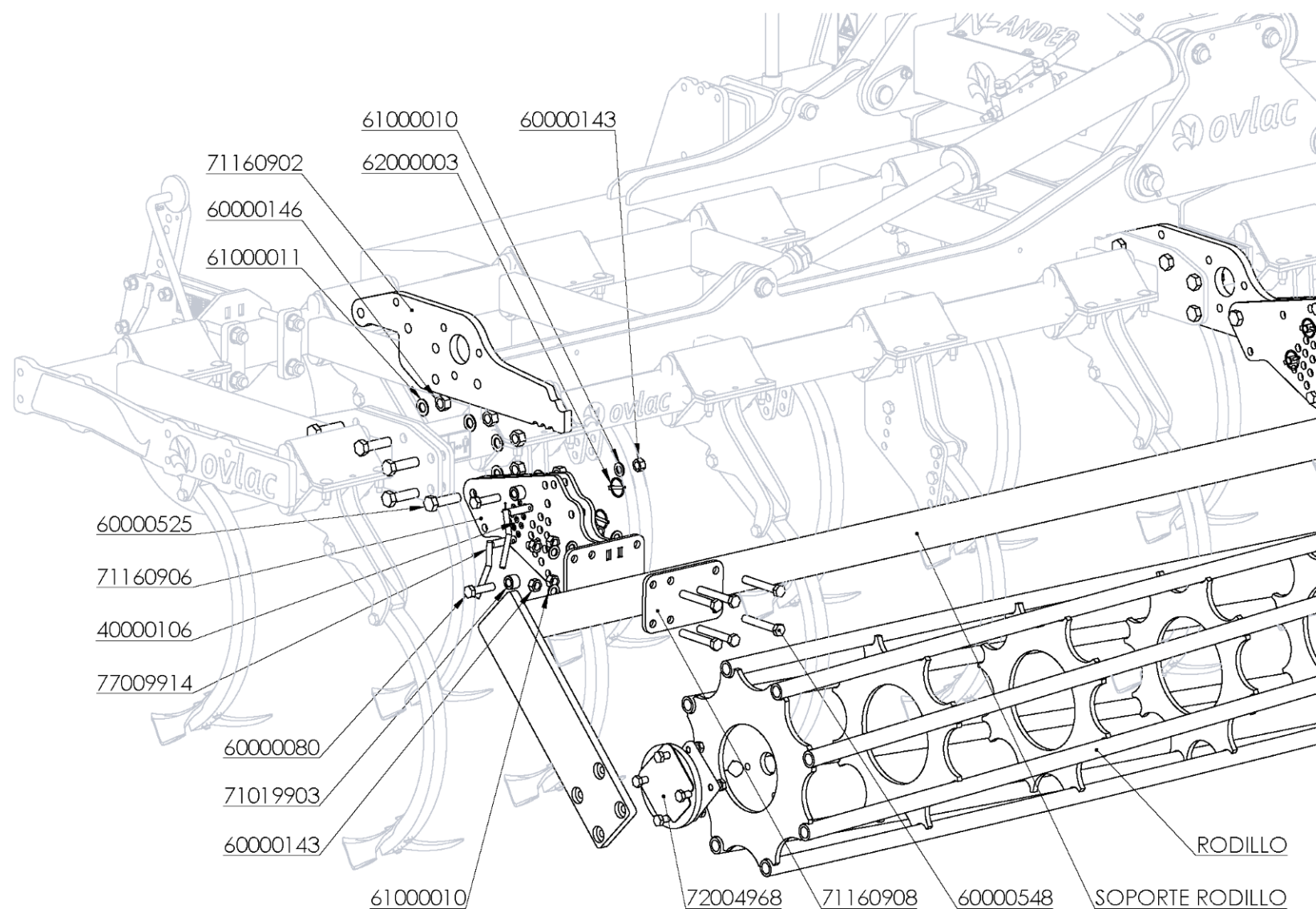


## BODY MCH-ADVANCED

| 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)         |



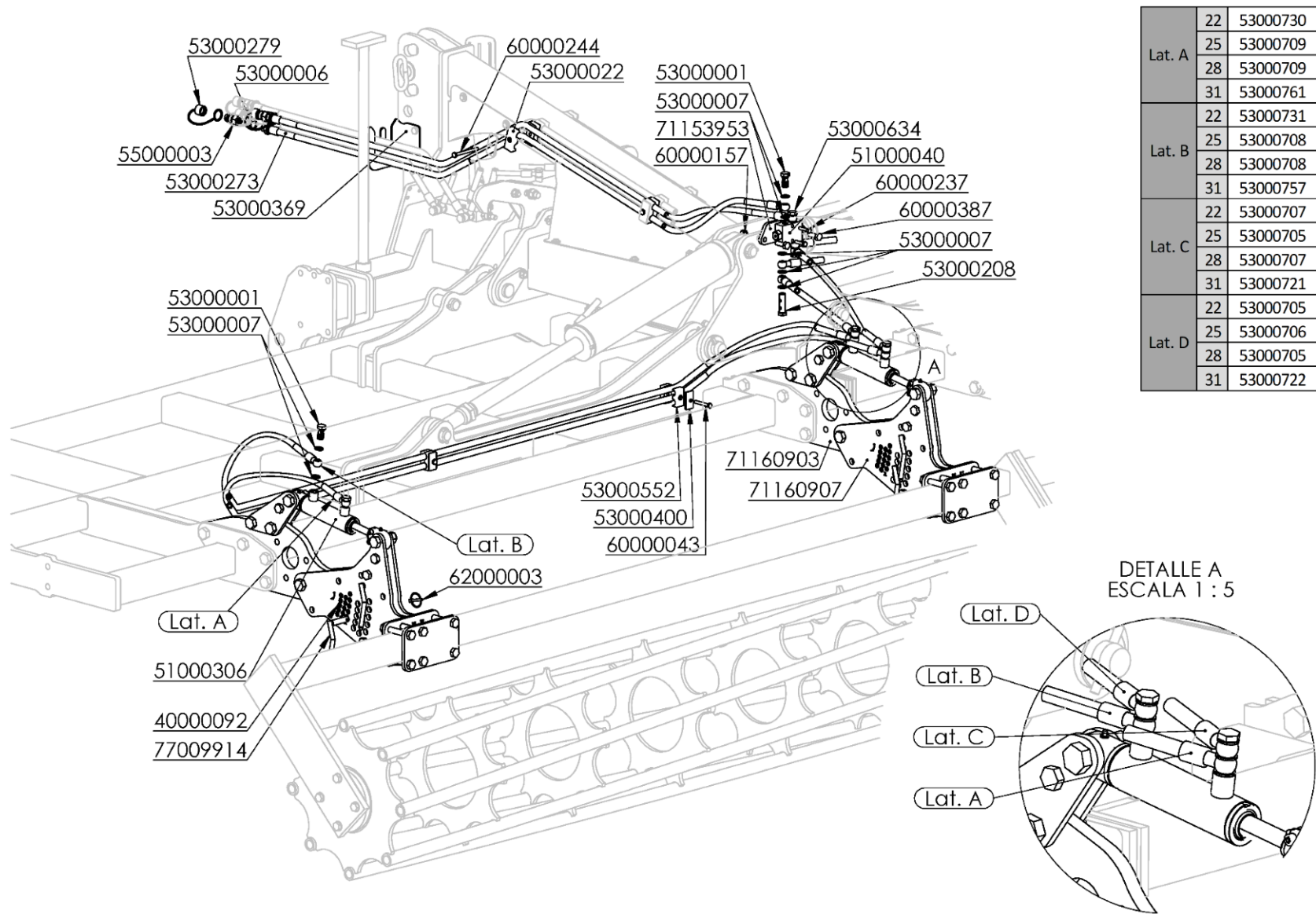
| MCH            | METROS   | SOP. ROD. | ROD. CRG | ROD. 8 MUESCAS | ROD. 8 BARRAS | ROD. 10 MUESCAS | ROD. 10 BARRAS |
|----------------|----------|-----------|----------|----------------|---------------|-----------------|----------------|
| <b>2-11-V</b>  | 3,00     | 72522987  | 72611930 | 72602930       | 72031930      | 72132930        | 72032930       |
|                | 3,30     | 72522989  | 72611931 | 72602933       | 72031933      | 72132933        | 72032933       |
| <b>2-13-V</b>  | 3,60     | 72522990  | 72611935 | 72602935       | 72031936      | 72132936        | 72032936       |
| <b>2-13-PV</b> | 2 x 1,90 | 72522980  | 72611919 | 72602919       | 72031919      | 72132919        | 72032919       |
| <b>2-15-PV</b> | 2 x 2,15 | 72522982  | 72611922 | 72602922       | 72031921      | 72132921        | 72032921       |
| <b>2-17-PV</b> | 2 x 2,40 | 72522984  | 72611924 | 72602924       | 72031924      | 72132924        | 72032924       |
| <b>2-19-PV</b> | 2 x 2,70 | 72522986  | 72611928 | 72602927       | 72031927      | 72132927        | 72032927       |
| <b>2-21-PV</b> | 2 x 3,00 | 72522987  | 72611930 | 72602930       | 72031930      | 72132930        | 72032930       |
| <b>2-23-PV</b> | 1 x 3,03 | 72522988  | 72611932 | 72602932       | 72031931      | 72132931        | 72032931       |
|                | 1 x 3,30 | 72522989  | 72611931 | 72602933       | 72031933      | 72132933        | 72032933       |
| <b>2-25-PV</b> | 1 x 3,30 | 72522989  | 72611931 | 72602933       | 72031933      | 72132933        | 72032933       |
|                | 1 x 3,60 | 72522990  | 72611935 | 72602935       | 72031936      | 72132936        | 72032936       |
| <b>2-27-PV</b> | 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 MUESCAS | ROD. 8 BARRAS | ROD. 10 MUESCAS | ROD. 10 BARRAS |
|----------------|----------|----------|----------|----------------|---------------|-----------------|----------------|
| <b>3-13-V</b>  | 3,00     | 72522987 | 72611930 | 72602930       | 72031930      | 72132930        | 72032930       |
|                | 3,30     | 72522989 | 72611931 | 72602933       | 72031933      | 72132933        | 72032933       |
| <b>3-16-PV</b> | 1 x 1,90 | 72522980 | 72611919 | 72602919       | 72031919      | 72132919        | 72032919       |
|                | 1 x 1,95 | 72522981 | 72611920 | 72602920       | 72031920      | 72132920        | 72032920       |
| <b>3-19-PV</b> | 2 x 2,30 | 72522983 | 72611923 | 72602923       | 72031923      | 72132923        | 72032923       |
| <b>3-22-PV</b> | 1 x 2,55 | 72522985 | 72611926 | 72602925       | 72031925      | 72132925        | 72032925       |
|                | 1 x 2,70 | 72522986 | 72611928 | 72602927       | 72031927      | 72132927        | 72032927       |
| <b>3-25-PV</b> | 2 x 3,00 | 72522987 | 72611930 | 72602930       | 72031930      | 72132930        | 72032930       |
| <b>3-28-PV</b> | 2 x 3,30 | 72522989 | 72611931 | 72602933       | 72031933      | 72132933        | 72032933       |
| <b>3-31-PV</b> | 2 x 3,60 | 72522990 | 72611935 | 72602935       | 72031936      | 72132936        | 72032936       |



# HYDRAULIC ROLLER SUPPLEMENT (1/2)



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





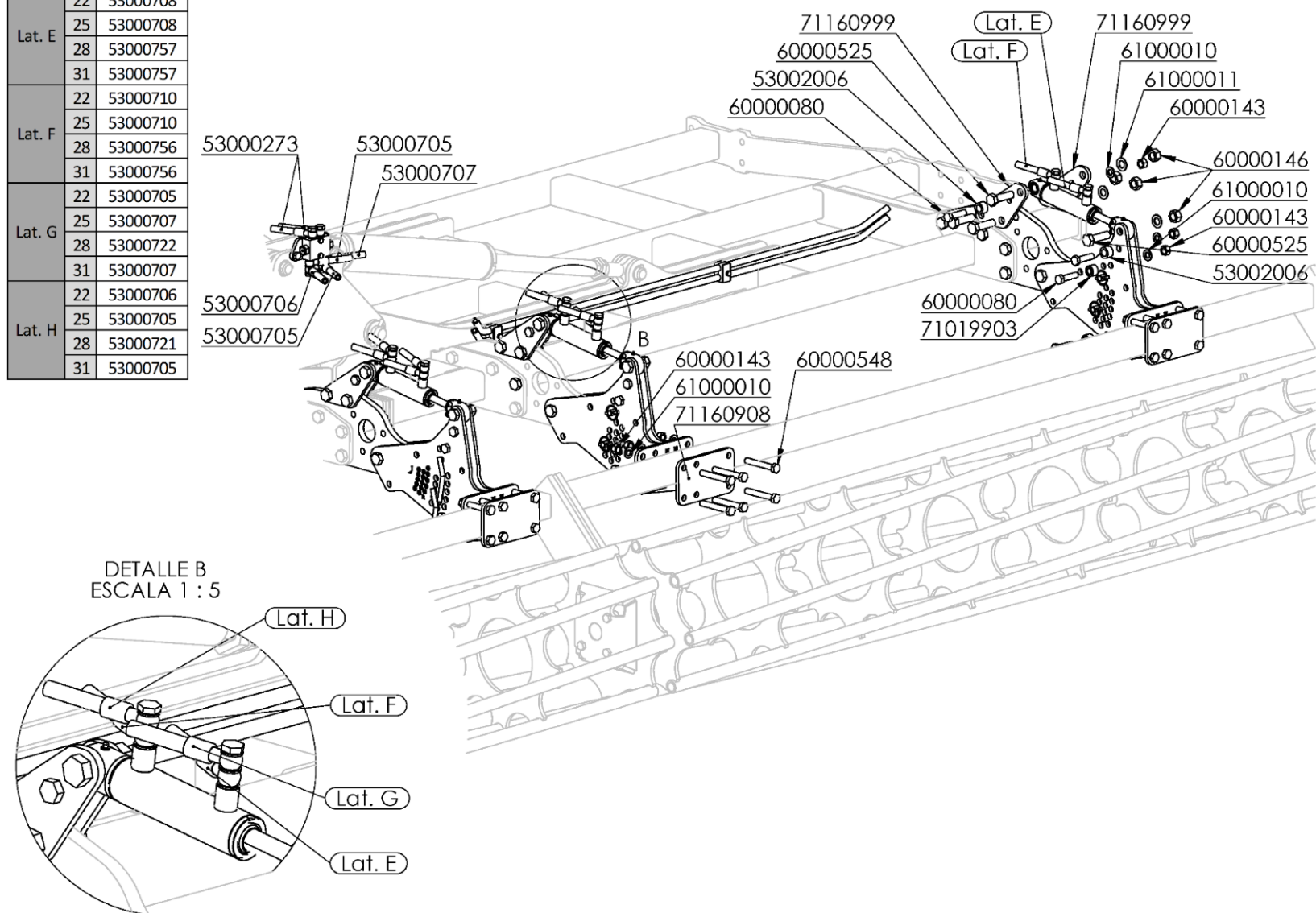
## HYDRAULIC ROLLER SUPPLEMENT (1/2)

| 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.DOBLE 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.DOBLE 15/18                         | 60000244   | TORN.EXAG.DIN-931 8* 90 8.8 ZINC.               |
| 53000552   | ABRAZ.DOBLE 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 |
|        | 31 | 53000757 |
| Lat. F | 22 | 53000710 |
|        | 25 | 53000710 |
|        | 28 | 53000756 |
|        | 31 | 53000756 |
| Lat. G | 22 | 53000705 |
|        | 25 | 53000707 |
|        | 28 | 53000722 |
|        | 31 | 53000707 |
| Lat. H | 22 | 53000706 |
|        | 25 | 53000705 |
|        | 28 | 53000721 |
|        | 31 | 53000705 |

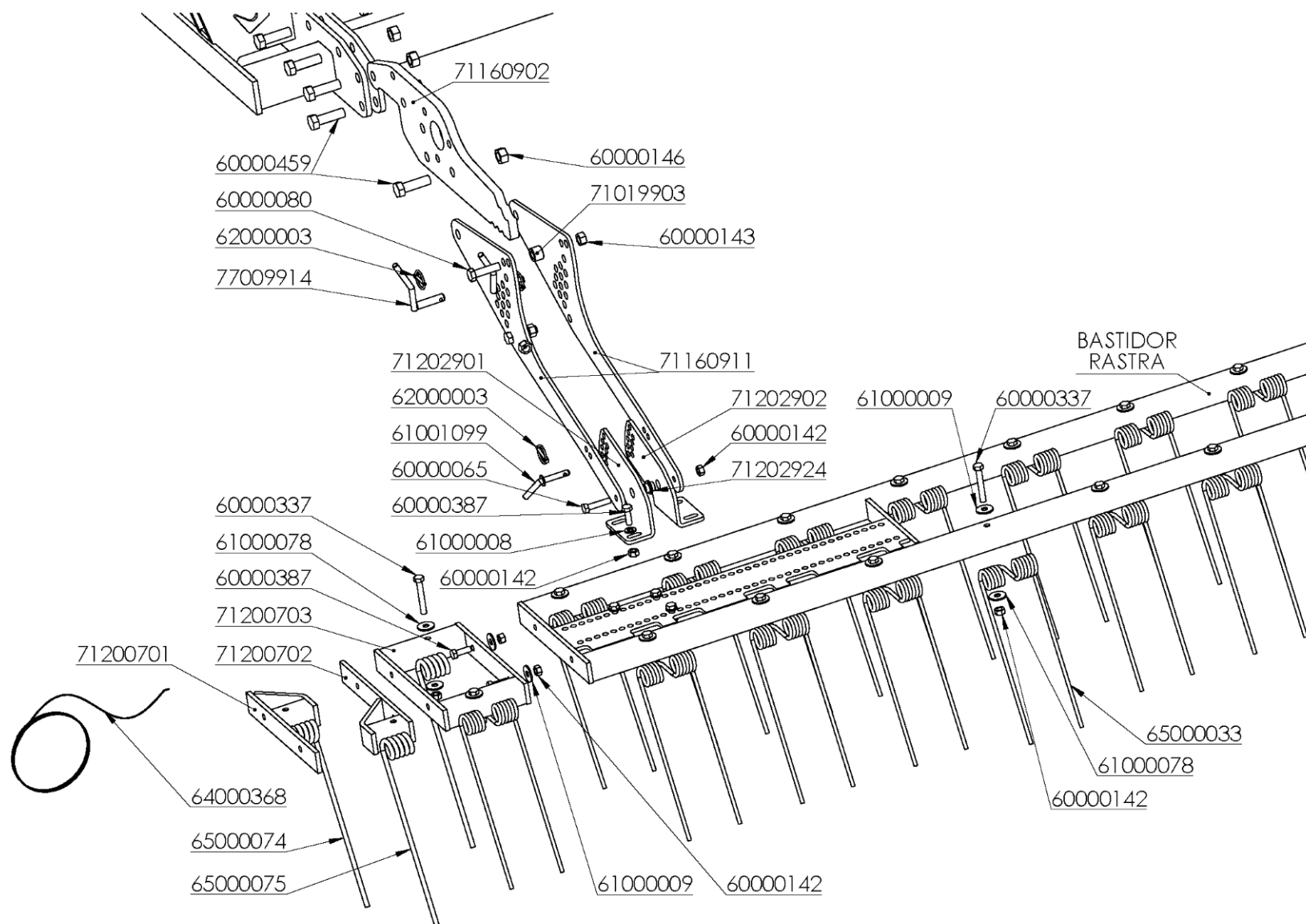


## HYDRAULIC ROLLER SUPPLEMENT (2/2)

| 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.                |            |                                                    |



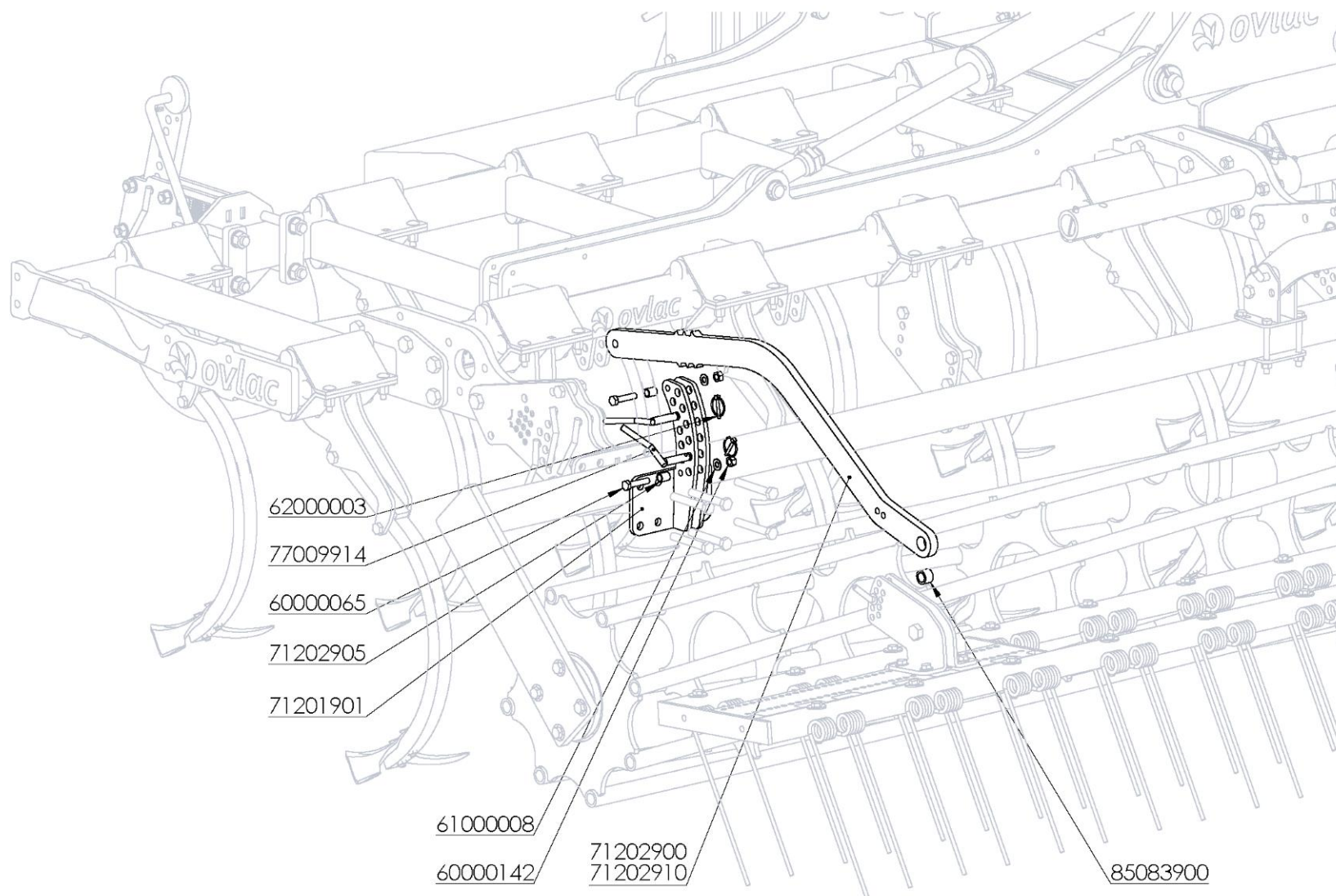
| MCH      | METROS   | BAST. IZQUIERDO | BAST. CENTRAL | BAST. DERECHO | MODULO DELANTERO | MODULO TRASERO |
|----------|----------|-----------------|---------------|---------------|------------------|----------------|
| 2-11-V   | 2,94 mts | -----           | 71200731      | -----         | 71200701         | 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       |



| MCH     | METROS   | BAST. IZQUIERDO | BAST. CENTRAL | BAST. DERECHO | MODULO DELANTERO | MODULO TRASERO |
|---------|----------|-----------------|---------------|---------------|------------------|----------------|
| 3-13-V  | 2,94 mts | 71200731        | -----         | 71200731      | 71200701         | -----          |
|         | 3,21 mts | 71200734        | -----         | 71200734      | 71200701         | -----          |
| 3-14-PV | 3,21 mts | 71200734        | -----         | 71200734      | 71200701         | -----          |
| 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         | -----          |
| 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



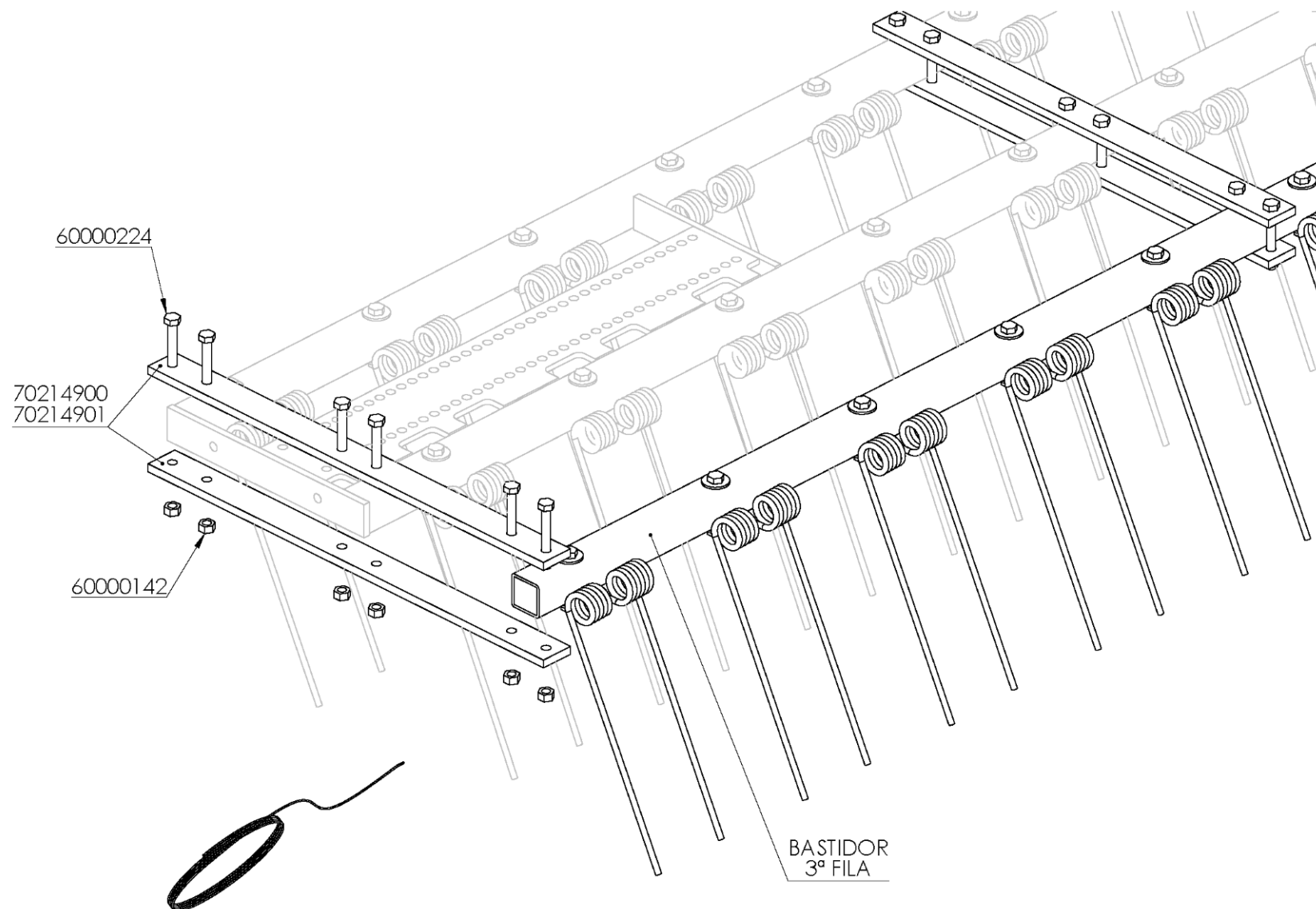


## ROLLER – TINE HARROW ASSEMBLY

| 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

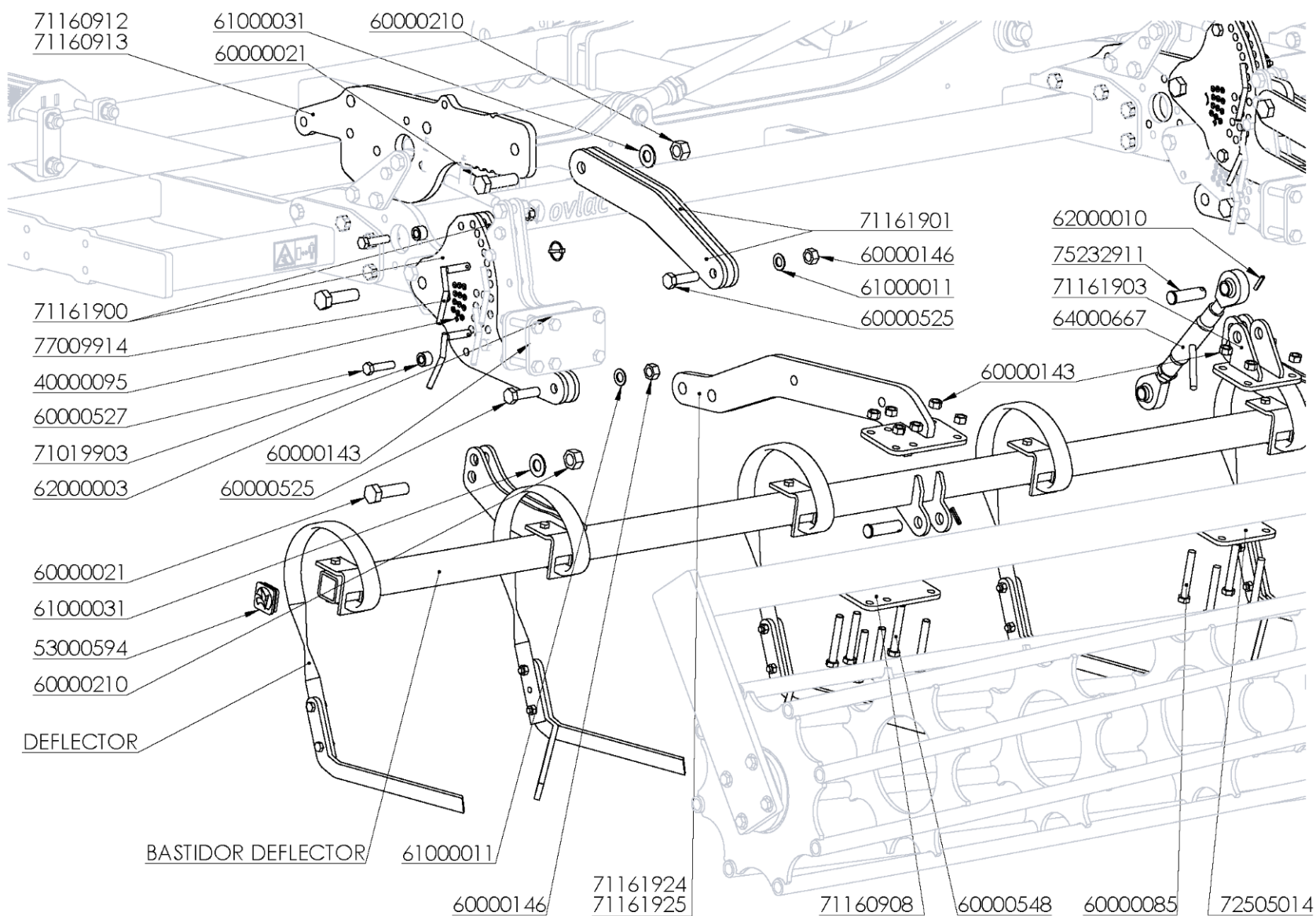
| REFERENCIA | DESCRIPCIÓN                         | REFERENCIA | DESCRIPCIÓN                           |
|------------|-------------------------------------|------------|---------------------------------------|
| 60000142   | TUER.AUTO.DIN-980 12 8.8 ZINC.      | 70214900   | LLANTA 50*12*723 MODULO RASTRA 3F MCH |
| 60000224   | TORN.EXAG.DIN-931 12* 90 10.9 ZINC. | 70214901   | PLACA MODULO RASTRA 3F MCH            |

| MCH      | BASTIDOR 2ª 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 2ª 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



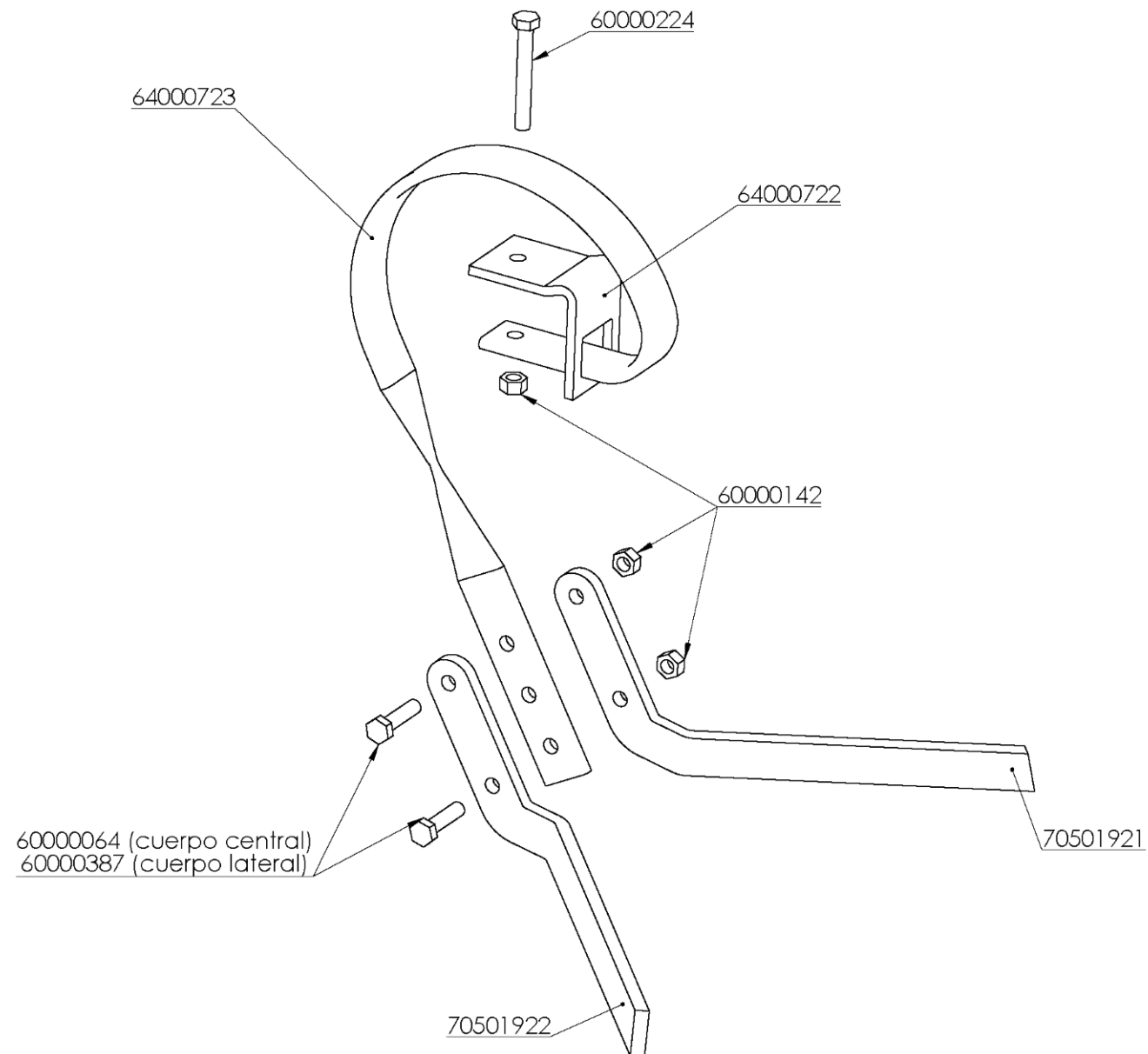
## ROLLER – DEFLECTORS ASSEMBLY

| 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                     |
| 60000548   | TORN.EXAG.C/LAR. 16*110 12.9 GEOMET            | 71161924   | BRAZO INF.PARALELOGRAMO MCH D500 (D/23)        |
| 60000527   | TORN.EXAG.DIN-931 16* 65 8.8 ZINC.             | 71161925   | BRAZO INF.PARALELOGRAMO MCH D400 (D/23)        |
| 61000011   | ARAND.DIN-125 20 ZINC.                         | 72505014   | PLACA AMARRE RODILLO MCH (D/09)                |
| 61000031   | ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)     | 75232911   | BULON D=30/25,5*93mm.TENSOR DISCOS VBC         |
| 62000003   | PASADOR ANILLA 6 ZINC.                         | 77009914   | BULON D=16*65mm.REG.RODILLO MCH (D/18)         |
| 62000010   | PASADOR ELAST.DIN-1481 8* 40 ZINC.             |            |                                                |

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



## DEFLECTORS BODY

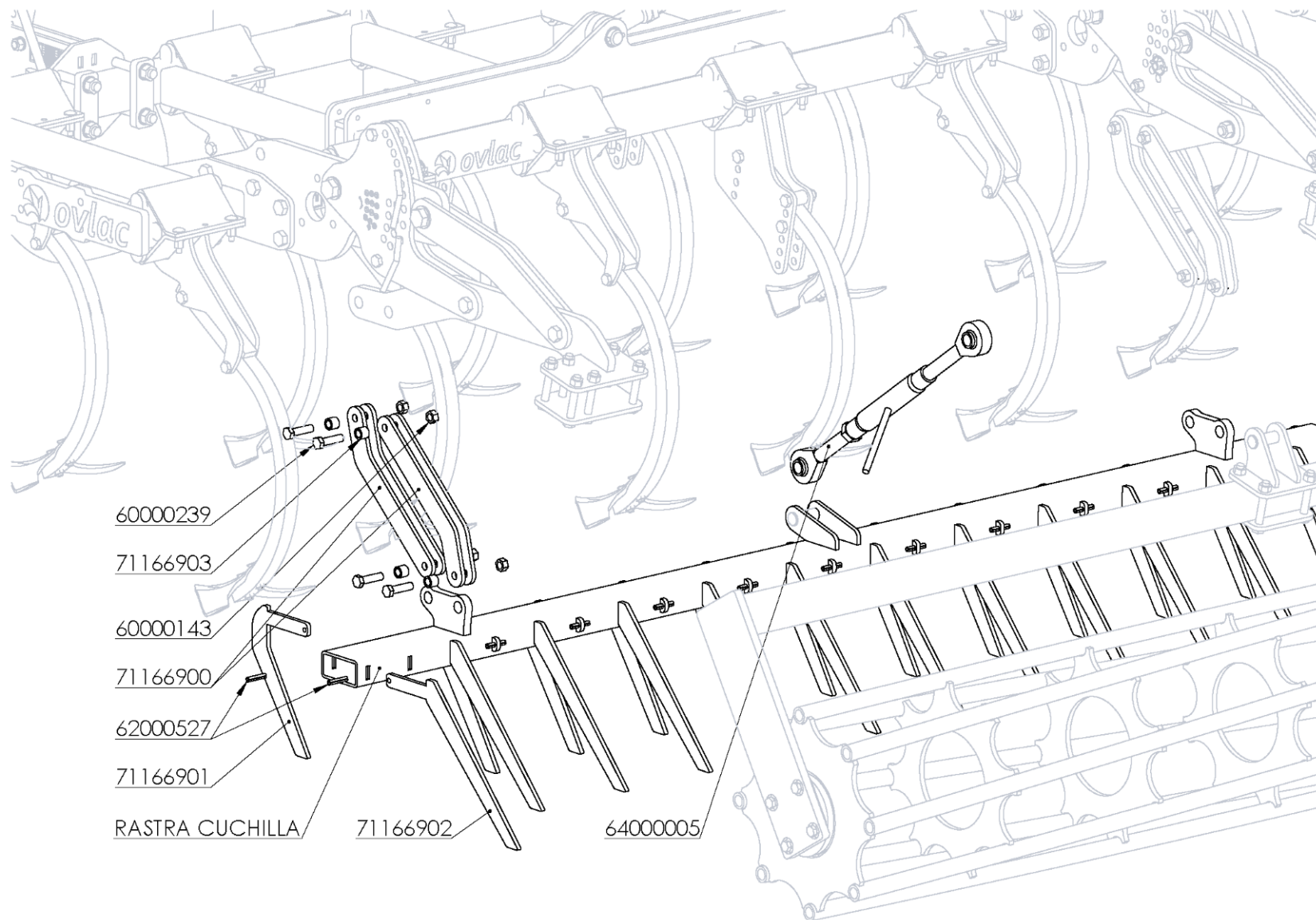


## DEFLECTORS BODY

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



## ROLLER – TINE HARROW – KNIVES ASSEMBLY





## ROLLER – TINE HARROW – KNIVES ASSEMBLY

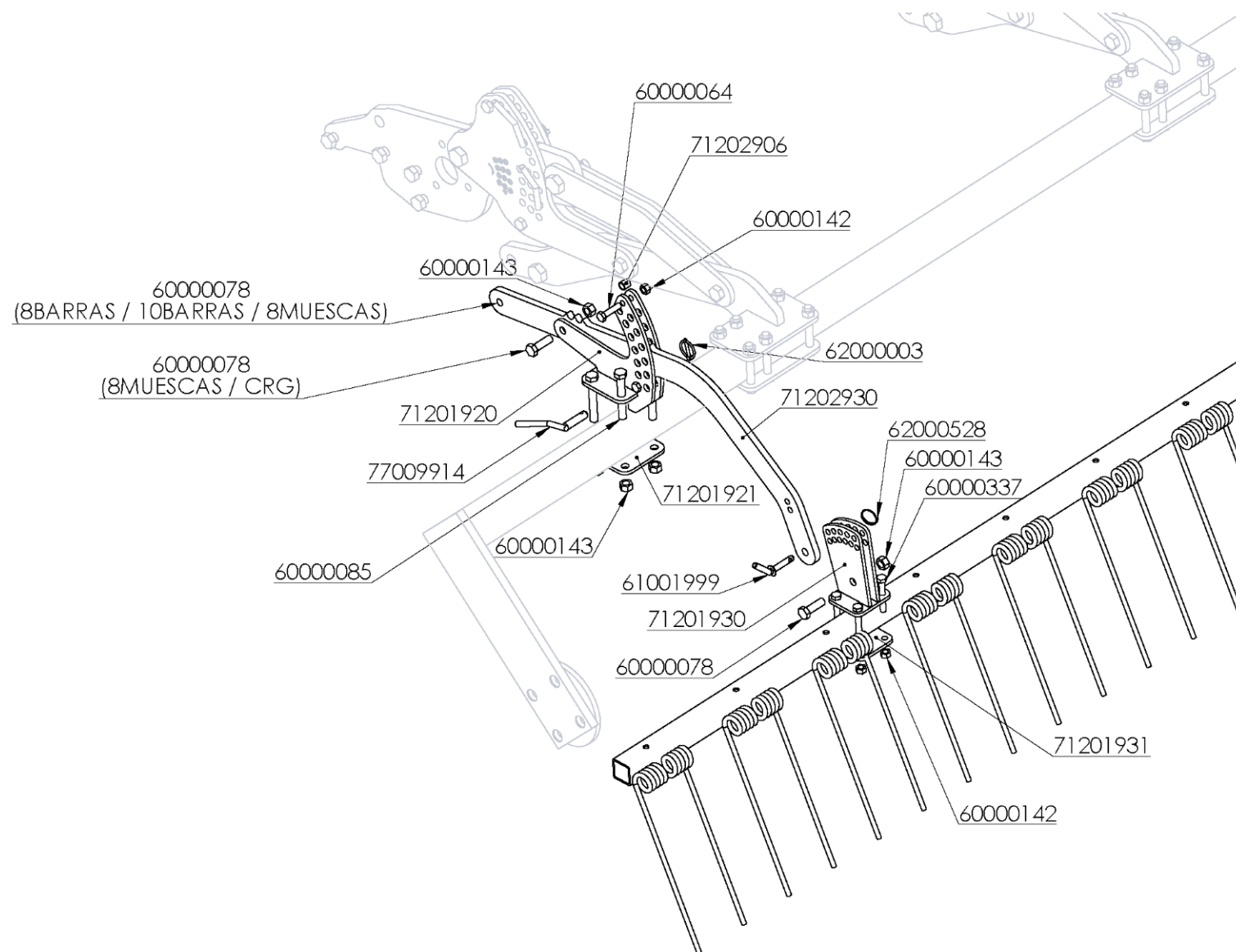
| REFERENCIA | DESCRIPCIÓN                         | REFERENCIA | DESCRIPCIÓN                                 |
|------------|-------------------------------------|------------|---------------------------------------------|
| 60000143   | TUER.AUTO.DIN-980 16 8.8 ZINC.      | 71166900   | BIELA RASTRA 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 |

| MCH      | 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         |

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



# 1 ROW TINE HARROW ON ROLLER ASSEMBLY

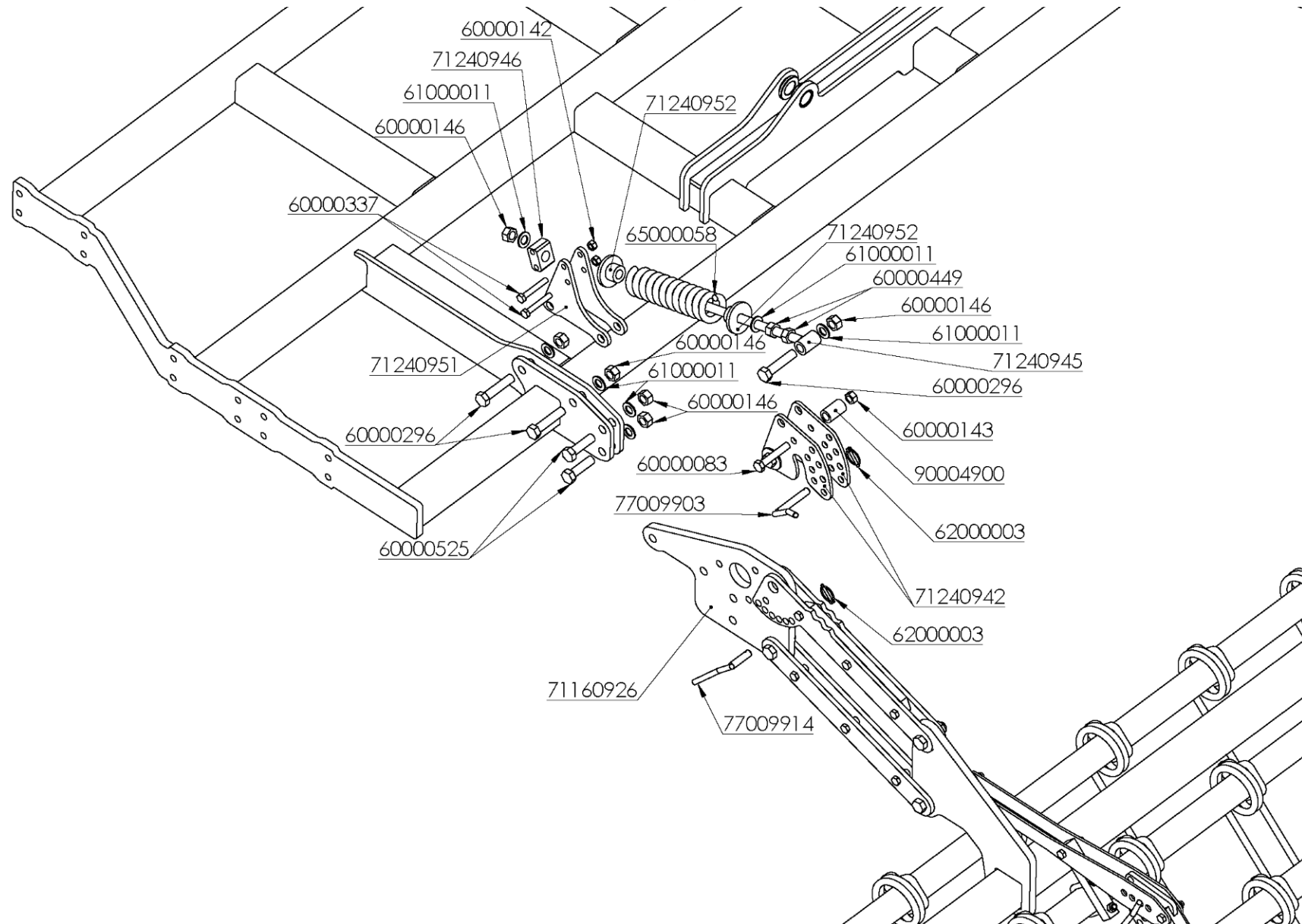


## 1 ROW TINE HARROW ON ROLLER ASSEMBLY

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



## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (I)

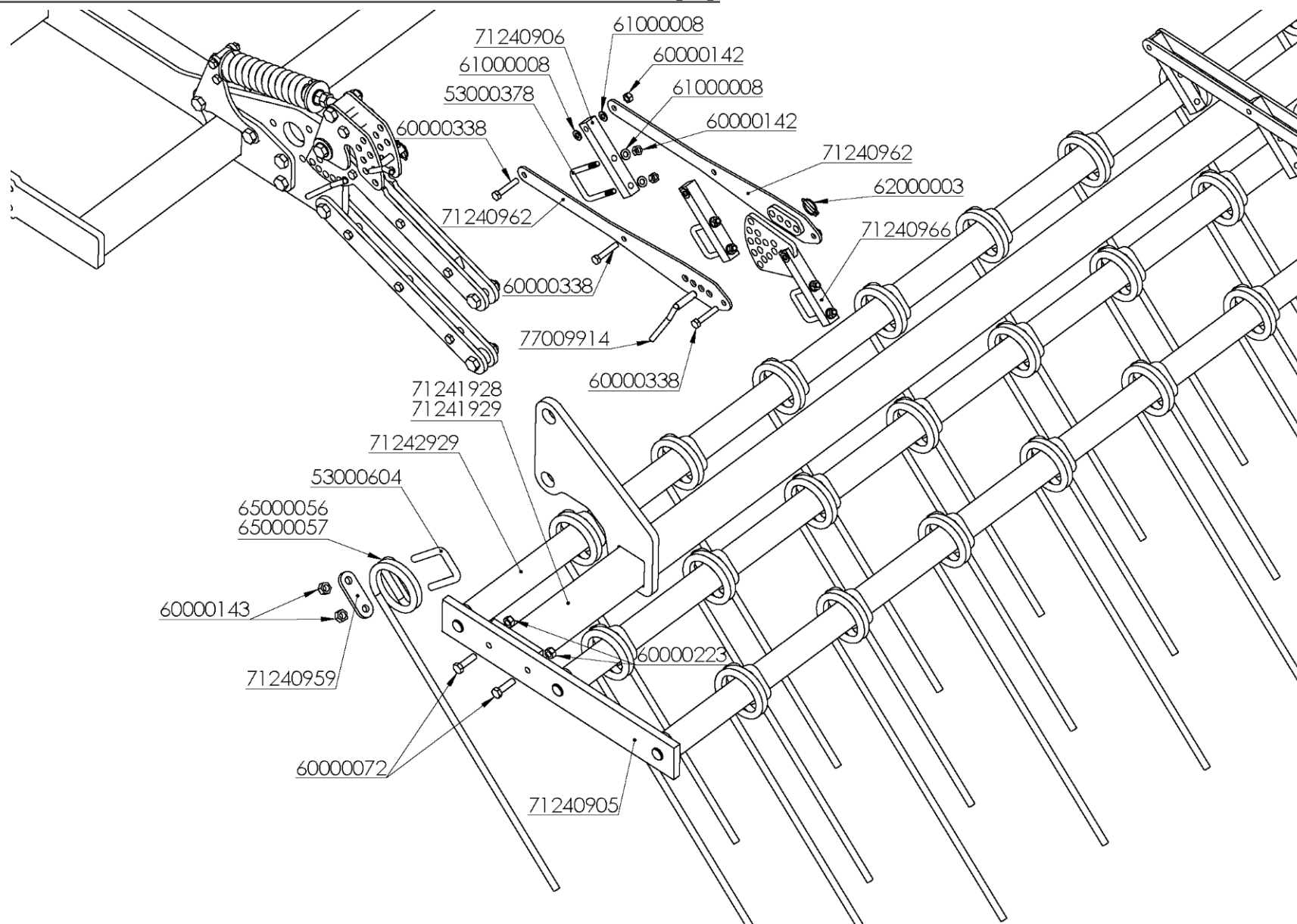


## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (I)

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



## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (II)

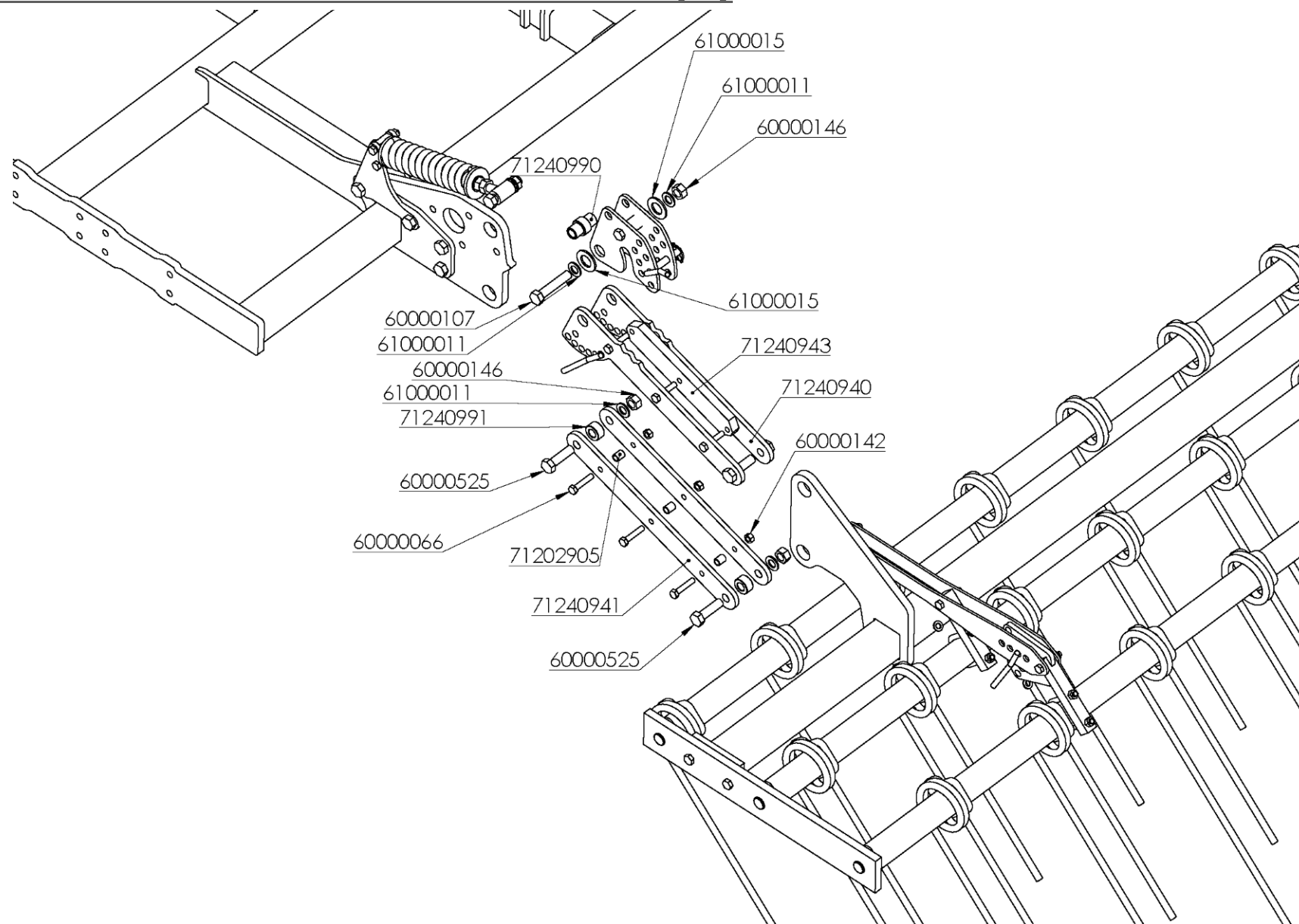


## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (II)

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



## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (III)



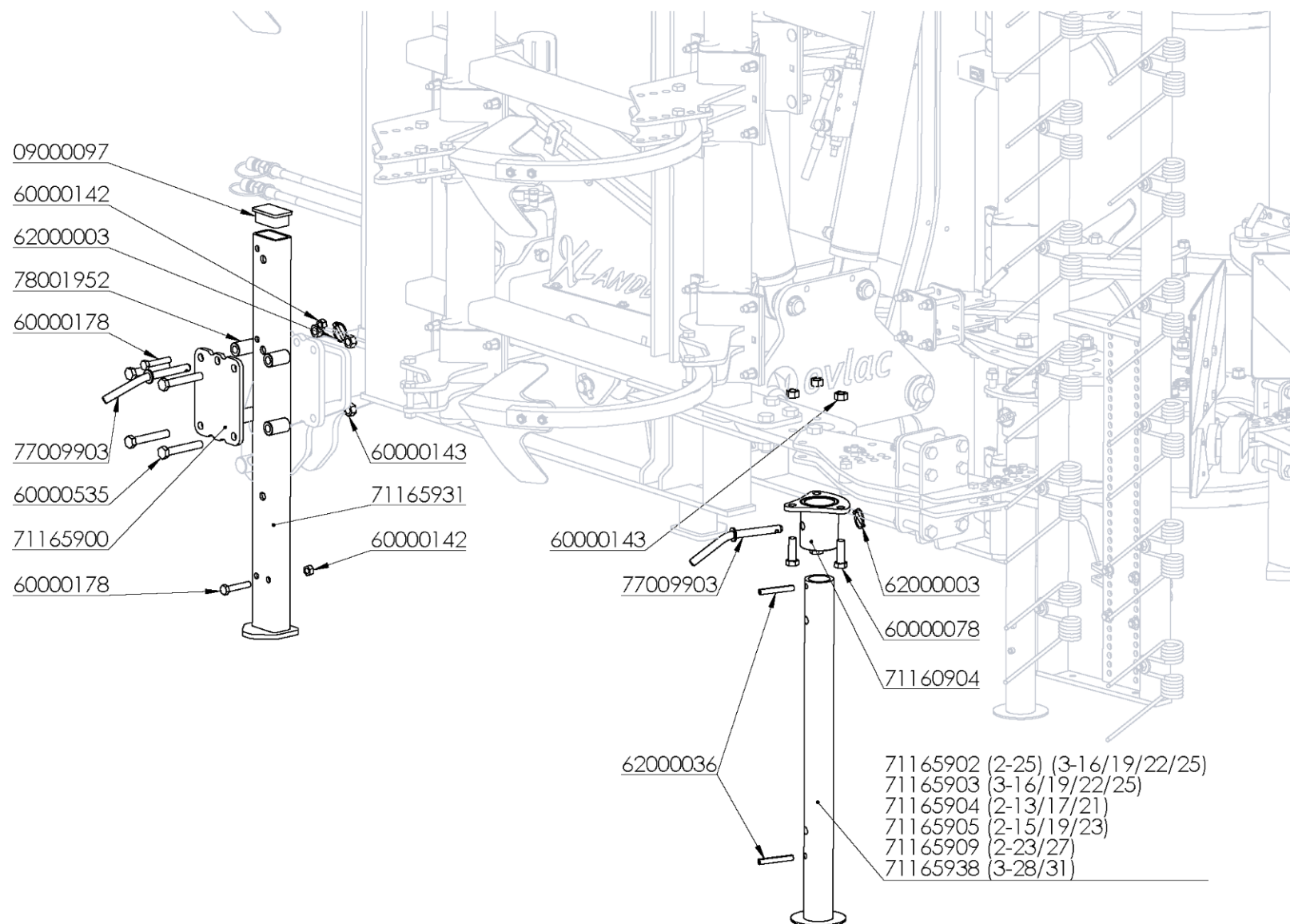


## ADJUSTABLE TINE HARROW ASSEMBLY 16MM (III)

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



## PARKING LEG MCH FRONT AND REAR

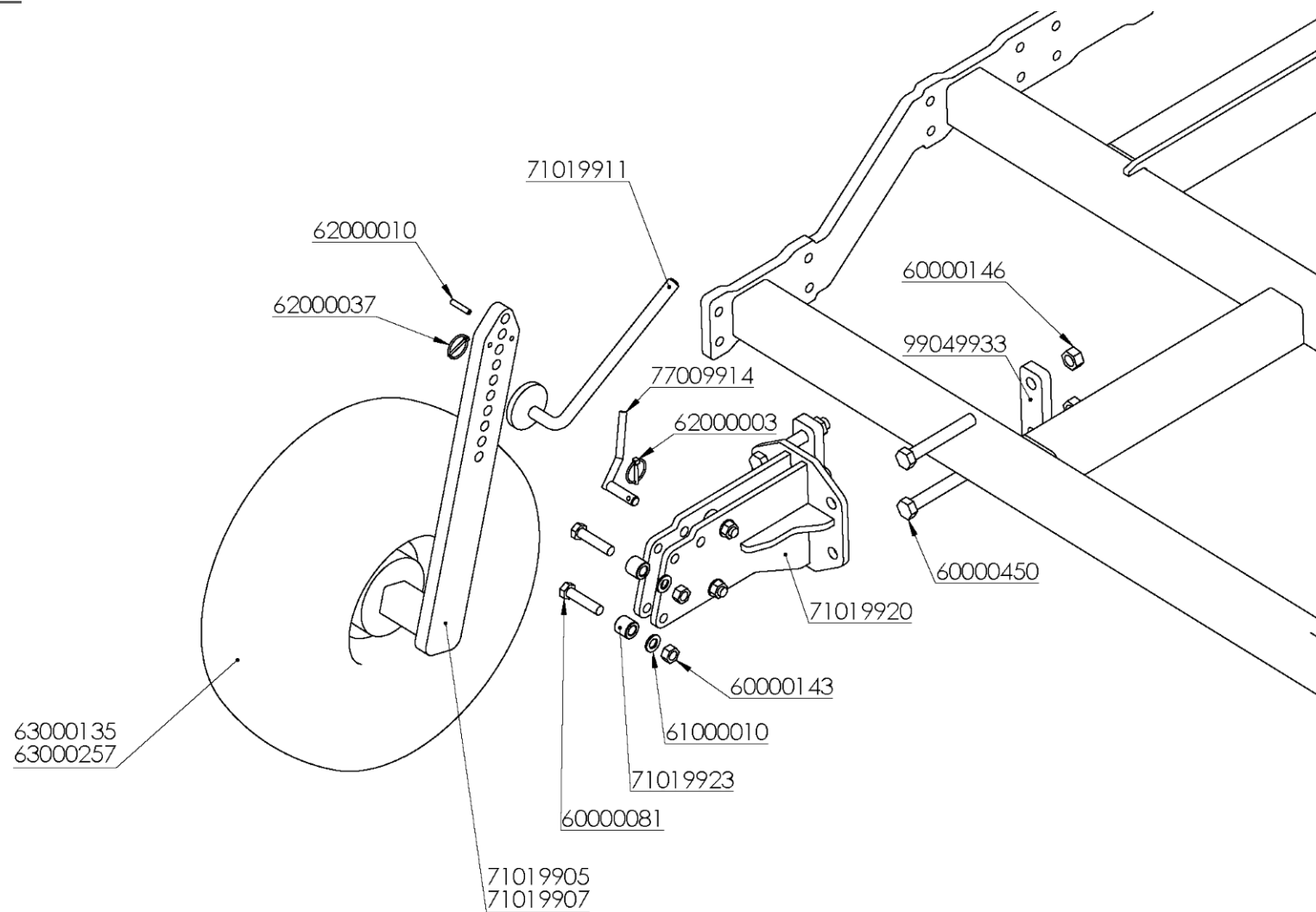


## PARKING LEG MCH FRONT AND REAR

| 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

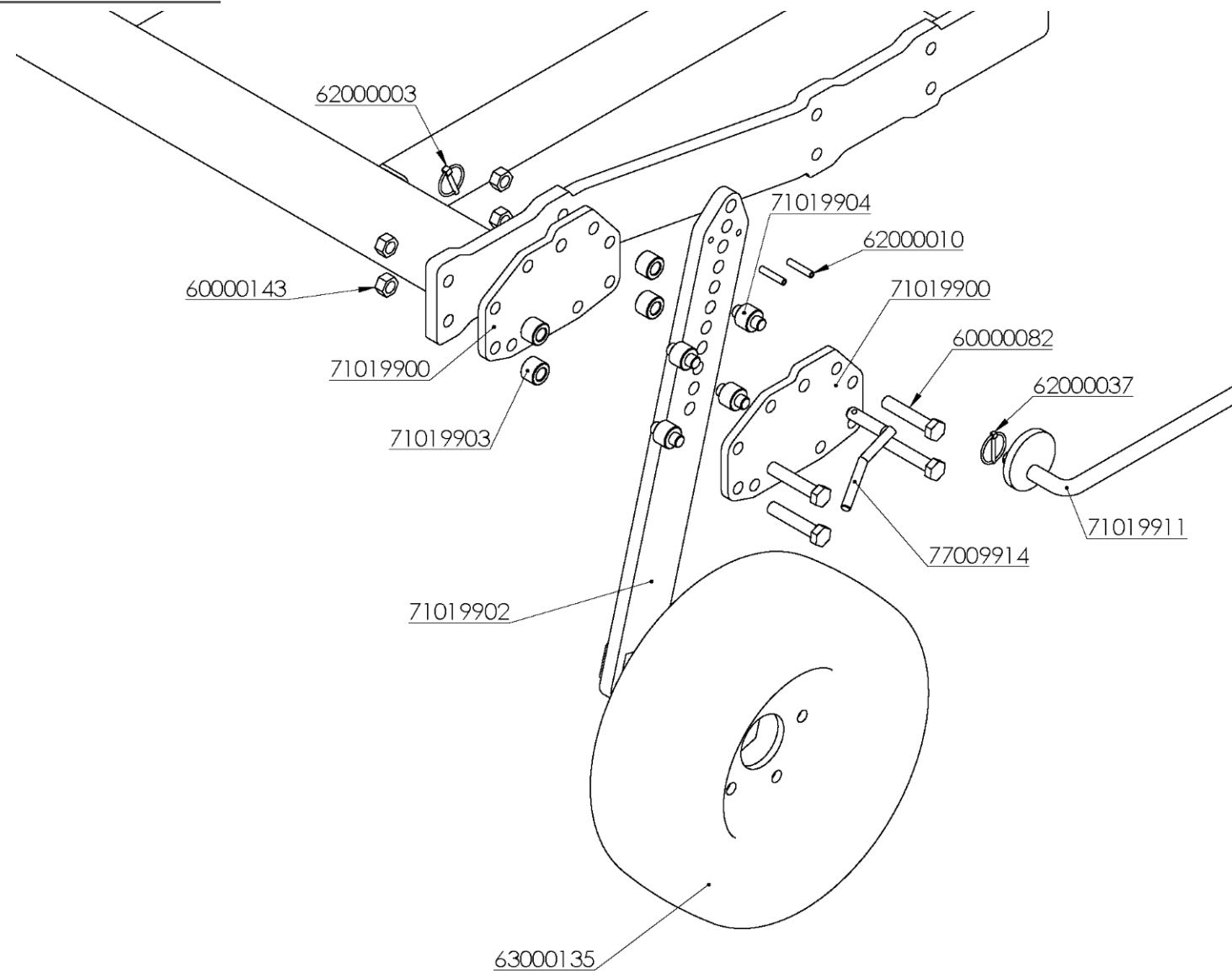


## FRONT WHEEL

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



## LATERAL WHEEL

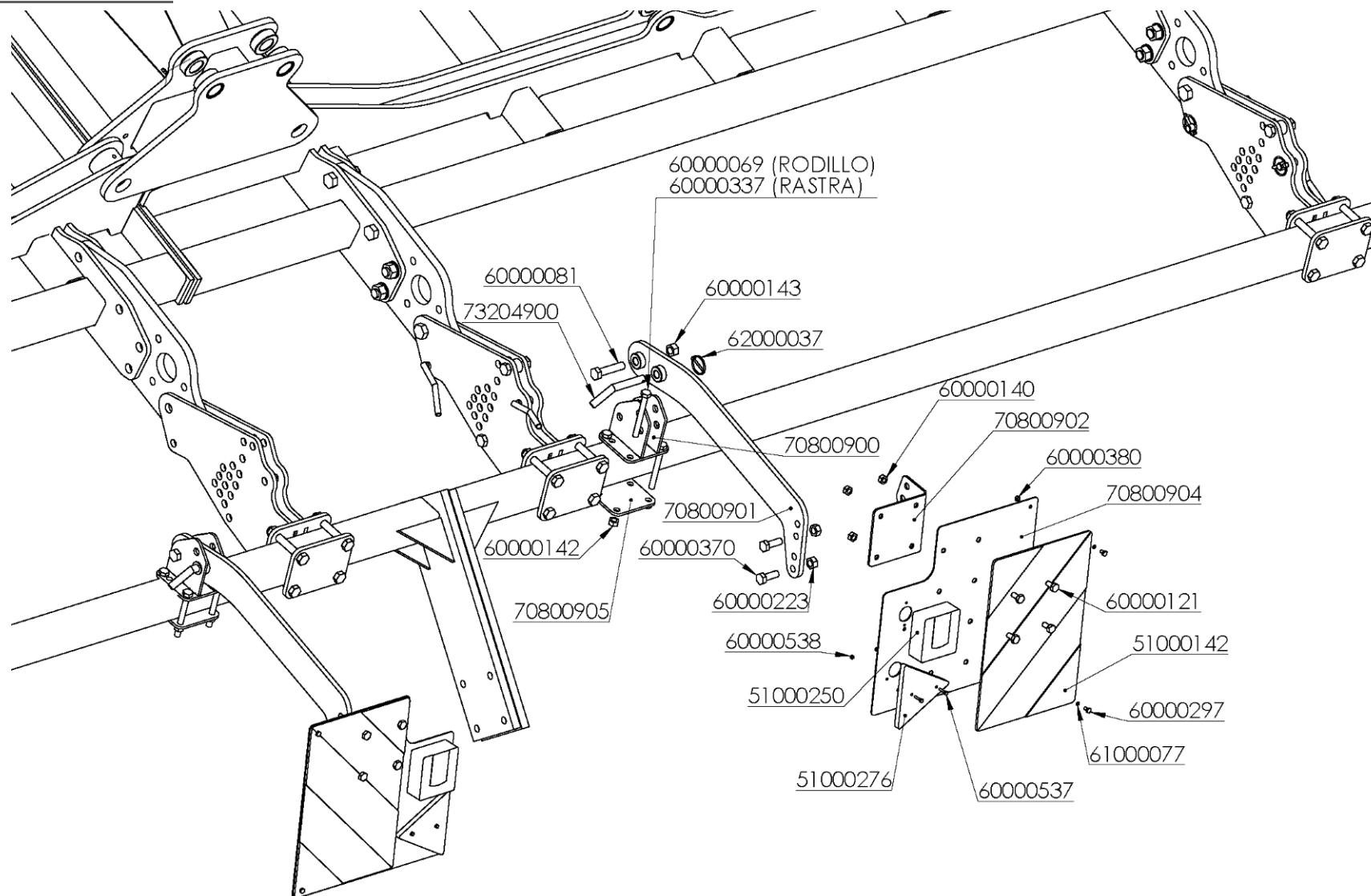


## LATERAL WHEEL

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



## SIGNALING KIT



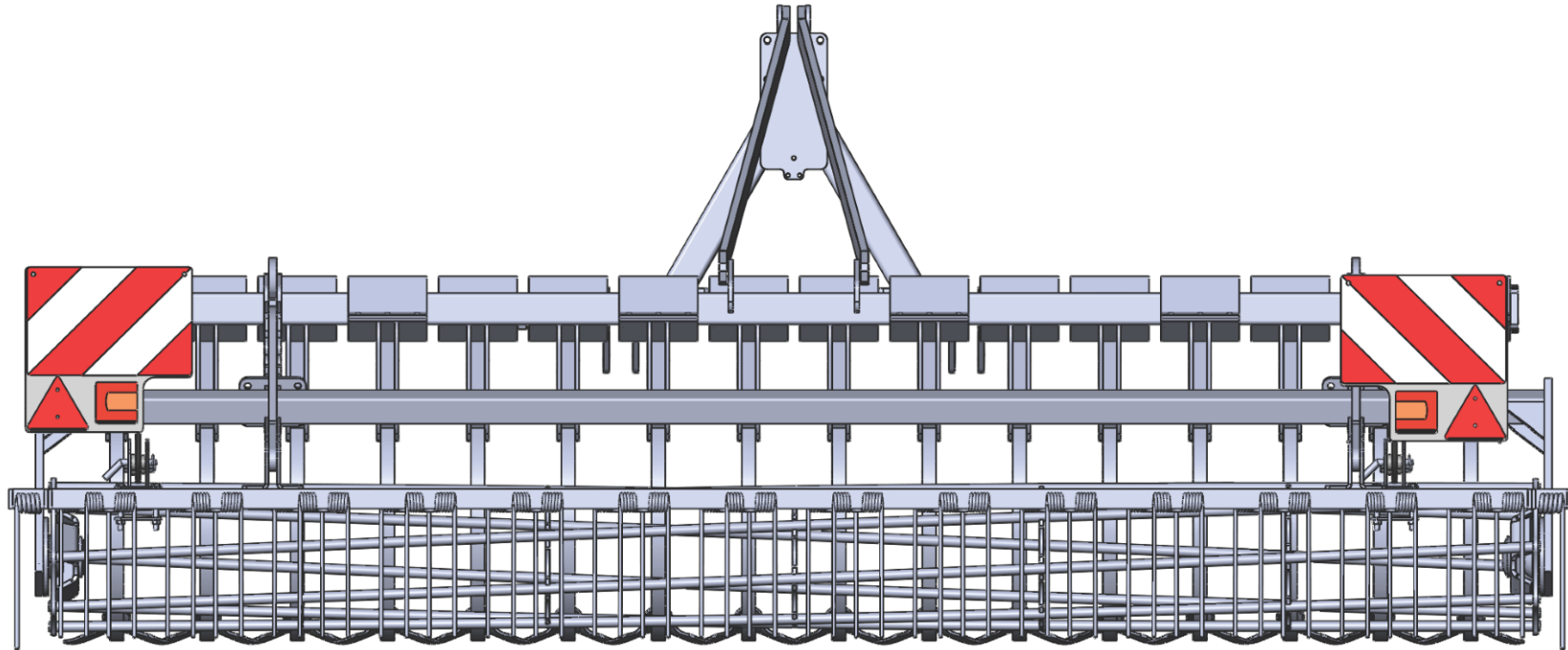


## SIGNALING KIT

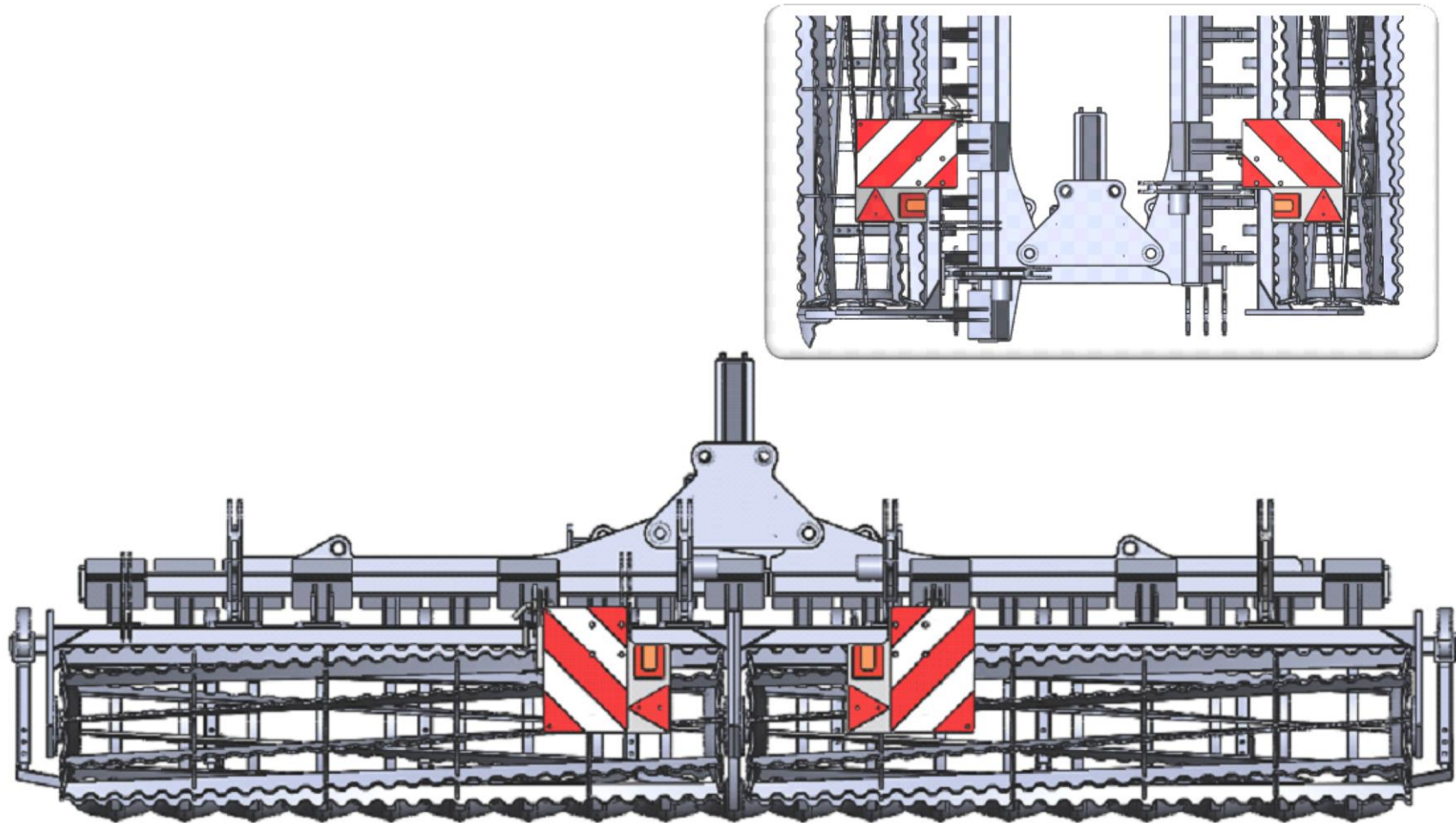
| REFERENCIA | DESCRIPCIÓN                                   | REFERENCIA | DESCRIPCIÓN                           |
|------------|-----------------------------------------------|------------|---------------------------------------|
| 51000142   | PANEL PLACA 423x282 (PAREJA) 1220128          | 60000370   | 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 PV



| 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 |







Polígono Industrial, C/ TAF, P163  
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Palencia - España



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