

FF-FB

REV 2021



INSTRUCTIONS AND SPARE PARTS LIST



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 XPERIENCE, 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.



INDEX

1.- Security rules	3
2.- Description and technical data	6
3.- Varilabor	7
4.- Security systems	9
5.- Turn up	11
5.1.- Adaptation to the tractor	11
5.2.- Working bodies	12
5.3.- Alignment	13
5.4.- 1st furrow width	14
5.5.- Other adjustments	15
6.- Working depth	16
7.- Transport and parking	17
8.- Maintenance	18
9.- Optional gear	19
10.- Spare parts	20



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.
- 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

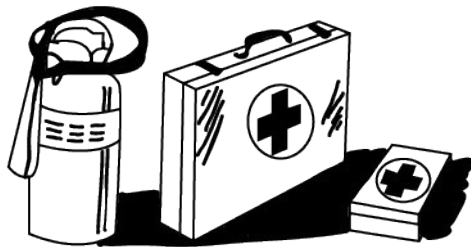
Before starting to work, read the instructions in the manual.

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.



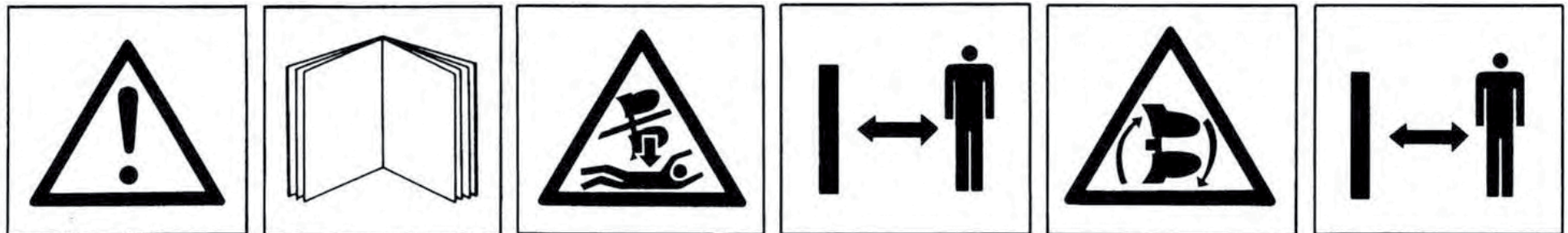
To be ready in case of an emergency

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.



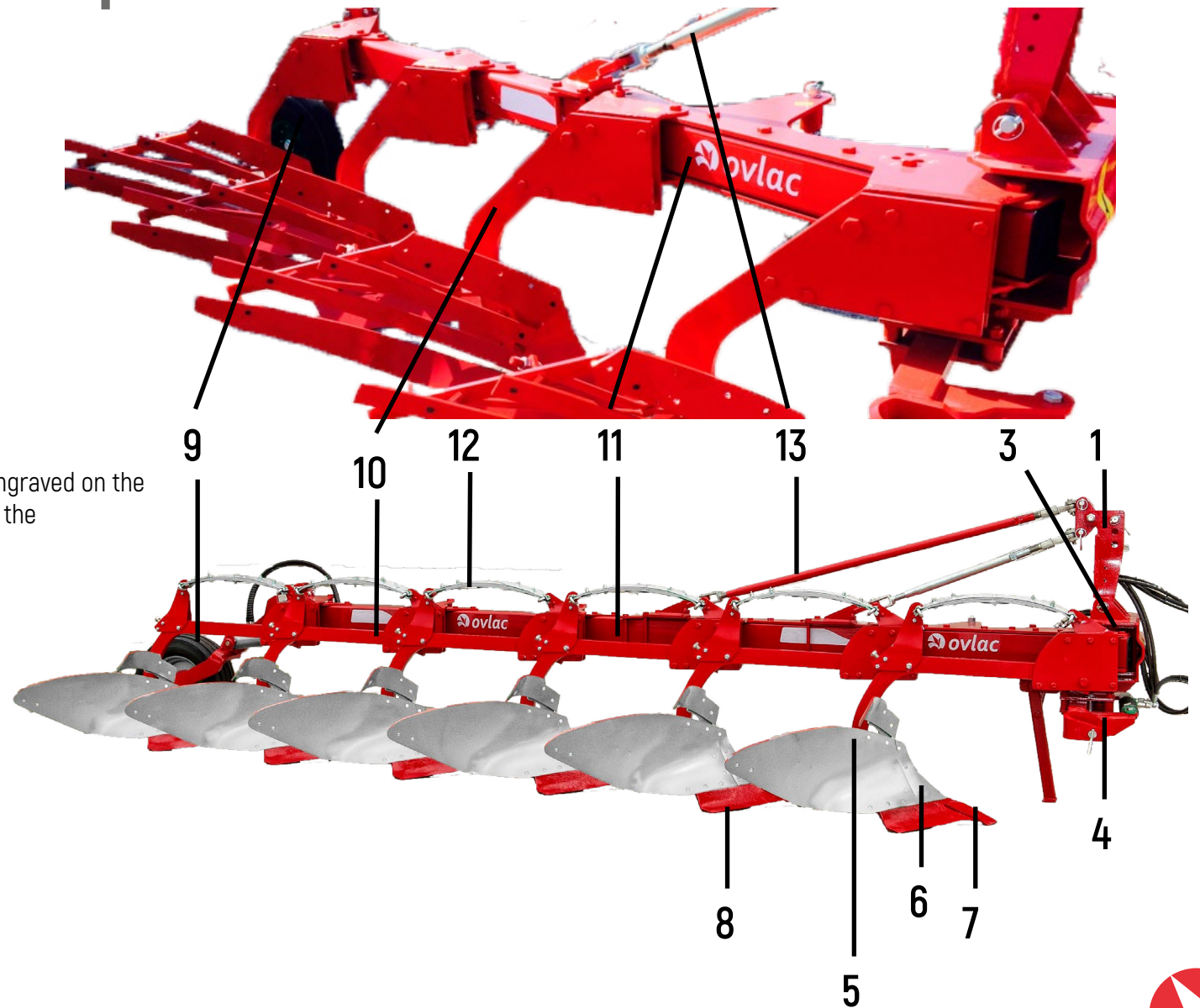
2.- Description and technical data

1. HEADSTOCK
2. IDENTIFICATION PLATE*
3. HEADSTOCK
4. OSCILLATING SHAFT
5. BODY
6. BODY COMPLEMENT
7. SHARE POINT
8. SHARE
9. HYDRAULIC WHEEL
10. CAMBA
11. FRAME
12. LEAFSPRING **
13. TENSOR

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

**Only available in FB

*2. Identification plate



3.- Varilabor

In the FF model you can adjust the working width based on your needs, in 4 different positions, divided by steps of 2" (5cm) acting over the fixing bolt D (Fig. 1). Positions 1 and 4 correspond to the minimum and maximum widths (Fig. 1).

After changing the working width, you must regulate the landslide extension through the tensor T (Fig. 2). Trying that the alignment of the bodies coincide with the working direction. In order to do that you must turn the tensor T until its measure coincide with the measure indicated on the sticker P (Fig. 2) and place the current sticker.

FB model incorporates the exclusive system by OVLAC of control of the 1st body and variable cut -Varilabor -, which allows to adopt any working width in between 10" (30 cm) and 20" (50 cm) with a single operation effected on the tensor T (Fig.2). As an option.

If you have acquired the hydraulic opening system, you may do this same operation, even when moving, from the tractor's cabin, through the hydraulic cylinder B (Fig. 3).

The indicator C (Fig. 3) points out the selected working width. The possibility of modifying the working width allows the plough to adapt.

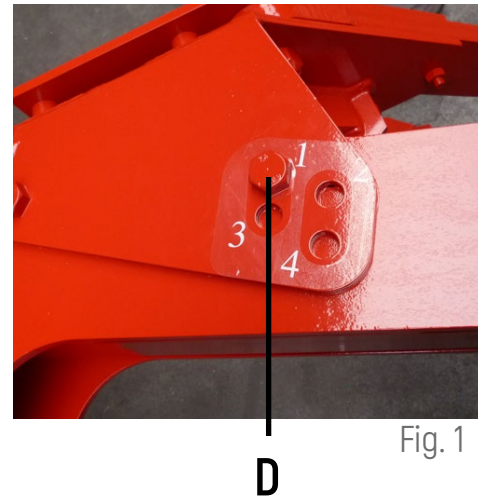


Fig. 1

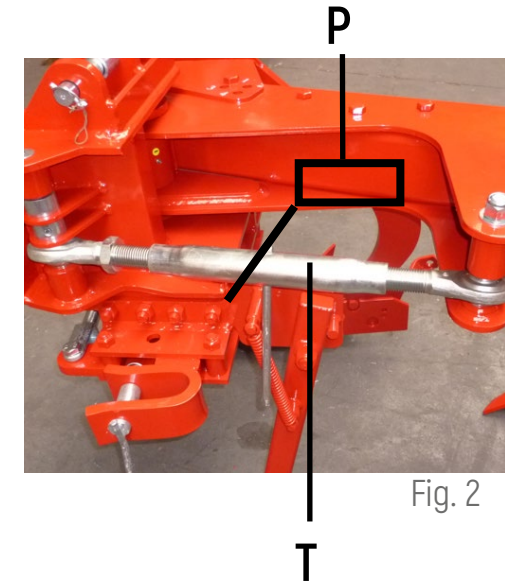


Fig. 2



Fig. 3

REGULATION OF THE OPENING (TENSOR LENGTH)

Series FF // Position	1	2	3	4
Mm.	664	645	626	608



Technical data

FB	Working width (Cm)	Weight (KG)	Power (CV)
FB-2	50/100	730	60/80
FB-3	75/150	990	80/90
FB-4	100/200	1.250	90/120
FB-4+1	125/250	1.510	120/140
FB-5 EXT	125/250	1.670	120/140
FB-6	150/300	1.860	130/160
FF			
FF-2	50/100	430	60/80
FF-3	75/150	565	80/90
FF-4	100/200	700	90/120
FF-4+1	125/250	840	120/140
FF-5 EXT	125/250	840	120/140
FF-6	150/300	980	130/160



4.- Shearbolt Security System

The safety of the plough structure is guaranteed with the shearbolts. (Fig.4 and 5). When the share point meets an obstacle the shearbolt breaks, allowing the leg to turn on its hosting. In order to continue laboring is needed to place the leg again and change the shearbolt F.

USE ONLY ORIGINAL SHEARBOLTS!

This way every impact made by irregularities of the soil are absorbed by the security system, which protects every other element of the plough, and therefore, of the tractor as well.

NOTE: size and quality of the shearbolts is calculated for them to break at a determined pressure. Is essential to replace the bolts with same-quality-and-size bolts, otherwise you'll lose the warranty.



Fig. 4

F



Fig. 5



4.- Non-Stop Security Systems

The “Non-Stop” security system (leafspring) acts automatically. When the share point is meeting an obstacle, the system gives up, allowing the arm to elevate and avoid the obstacle, retrieving its original position without stopping the tractor.

This way every impact made by irregularities of the soil is absorbed by the security system, which protects every other element of the plough, and therefore, of the tractor as well.

Because of the same reason, Non-Stop security systems decrease the traction effort by not making the tractor to power through every obstacle and it can present an even labor.

On very hard terrain conditions the leafspring may incorporate an extra leaf to make the dig of the plough easier. On any case, the string of the bow which determines the leafspring must always have a length of 700 ± 2 mm, measured as the Fig. 6 indicates. The length of said bow is regulated acting over the bolt A (Fig.6). In the same figure we can see the regulation of the angle of the share holder, turning the hexagonal eccentric screw B.

Note: OVLAC Non-Stop security systems are regulated in-factory for an optimum pressure of mid hardness terrains.

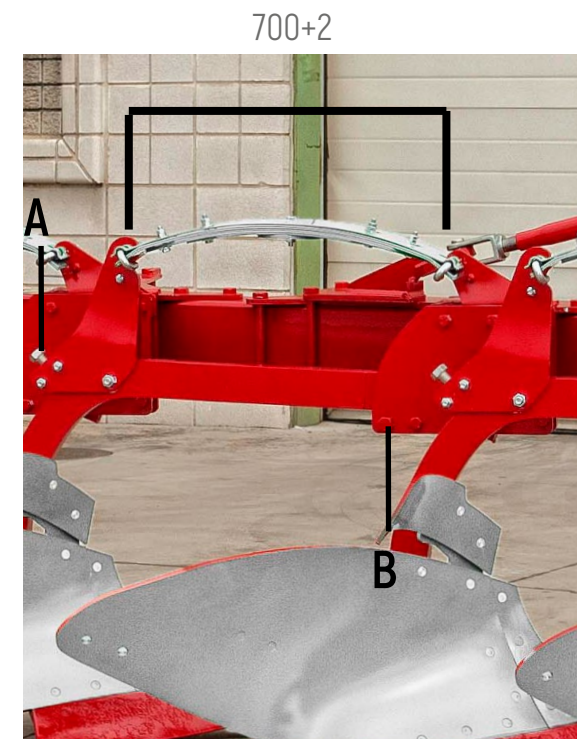


Fig. 6



5.- Turn Up

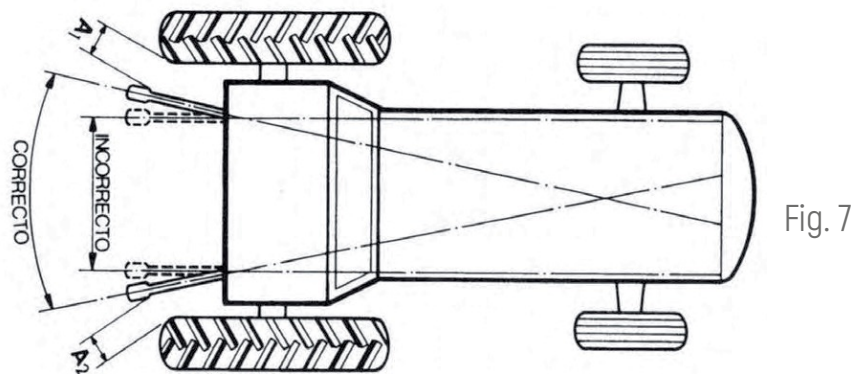
5.1.- Adaptation to the tractor

OVLAC ploughs are designed to adapt to the 3 universal linking points of any tractor.

The oscillating shaft, or linking rod, is supplied in 2 versions (distance between centers):

Category II	890 mm.
Category III	1025 mm.

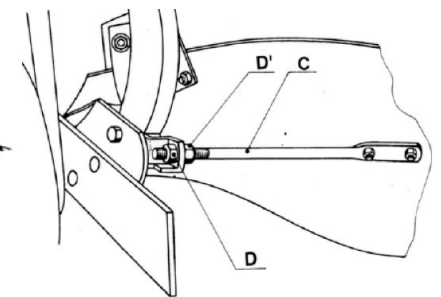
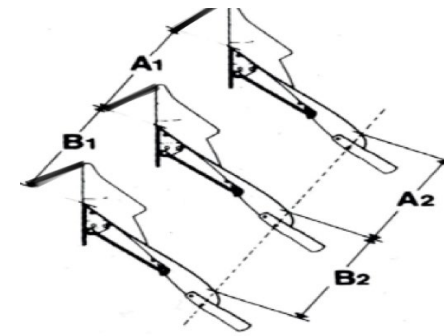
The linking rod must have the adequate length that makes the pulling strength to converge on the center of the front axis, as shown on Fig. 7.



5.2 - Working bodies

Eliminate the layer of paint that protects the bodies before working, in order to avoid sticky soil in your bodies.

Check that the distances $A1=A2$ and $B1=B2$ as shown on the figure (Fig. 8). If said distances doesn't match, adjust them through the pulling C and the Bolts D and D' (Fig. 9).



5.3 - Alignment

The plough 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. 7, page 11). In the OVLAC ploughs, the drifting effect is auto-corrected thanks to the oscillating shaft.

Nevertheless, if it is watched that the front part of the tractor tends to drift to a side, you must modify the position of the pulling bolt B (fig. 11), moving it one space to the right if the plough's drifting is to the left and viceversa.

You must keep the parallelism of the arm on the third point with the tractor's direction, moving the headstock T (Fig. 11) over the point C.

The third point arm must be coupled in a way that, when is in working position, the end that links over the plough remains slightly higher than the end that links to the tractor (Fig. 10).

The third point (EXCEPT TRACTORS WHOSE CONTROL IS ON THE THIRD POINT) must always link the drill E (Fig. 10), in ploughs below 5 bodies and to the linking rod with ploughs over 5 bodies, trying that its length doesn't stop its free movement throughout the whole labor.

If by being the terrain in hard conditions it was necessary not to let move the linking rod, this can be placed the opposite way, with the hosting ball of the linking rod in the hosting of the rod and both held together with the large bolt to the headstock, the other part of the linking rod is left hanging.

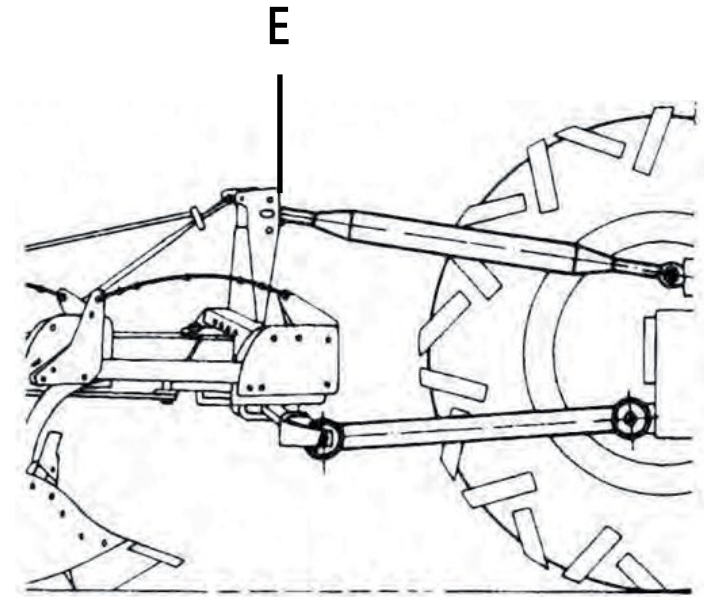


Fig. 10

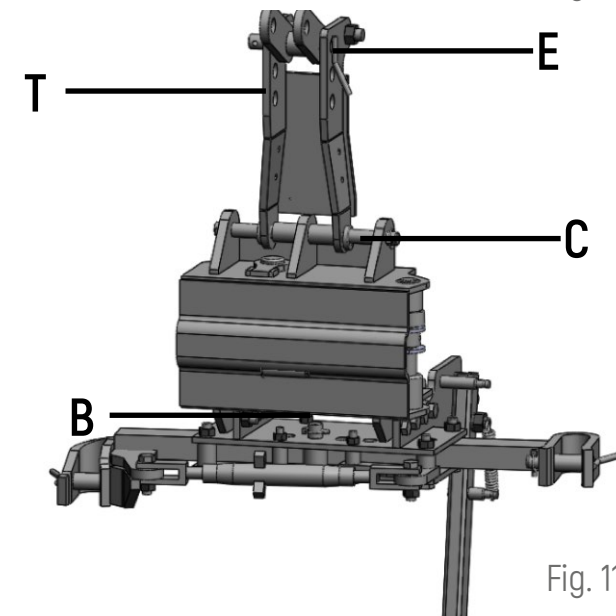


Fig. 11



5.4 - 1st Furrow Width

The 1st furrow width is adjusted by moving the oscillating shaft to the left or right through the tensor T (Fig. 12), in a way that verifies the observations made by Fig. 13. IF THE TENSOR GETS LONGER THE 1ST FURROW GETS WIDER AND VICEVERSA. On the same way, this operation can be done from the tractor's cabin with the optional hydraulic cylinder. (Fig. 14)

The board shows the working width that can be adopted depending on the width of the tractor's path and the oscillating shaft measure.

The regulation possibilities of the plough are conceived for a width of wheels from 110 to 150cm, being optimal 130-140.

As a starter point, after regulating the perpendicularity of the ANCHOR according to the terrain, we'll settle a working width of 40-45 cm and then we'll place the point of the first body around 40 cm of the inside of the wheel as indicated on the right image in fig. 13.

After that a fine adjustment must be made based on the wheel width, speed and kind of terrain.

We don't recommend wheels over 710mm in order to work in-furrow.

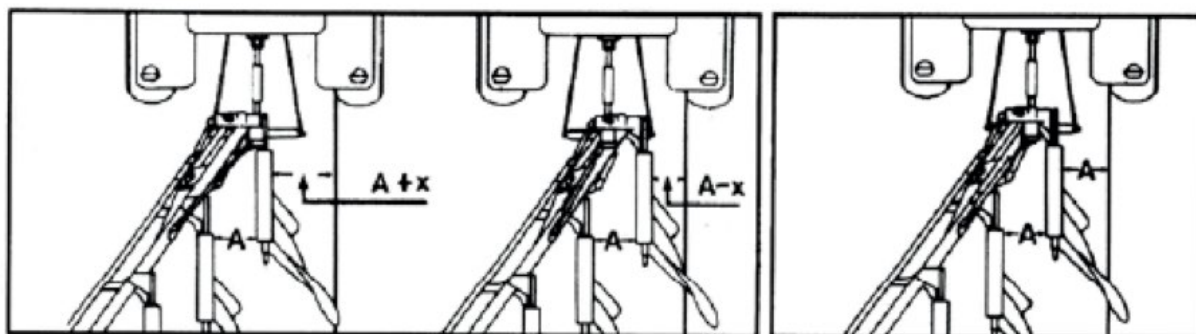


Fig. 12

T



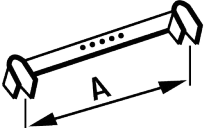
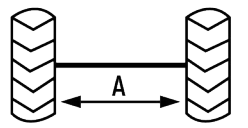
Fig. 14



Incorrecto / Wrong / Incorrect

Fig. 13

Correcto / Right / Correct

			Ancho de surco
A = 90		120 130 140 150	30-45 40-50 35-45 40-50
A = 100		140 150 160	35-45 40-50 40-50

5.5 - Other adjustments

The length of the third point must be adjusted in a way that the frame is parallel to the ground, otherwise the first bodies would work at uneven depth compared to the last bodies, resulting in uneven labor (Fig. 15).

For the same reason, you must check (while laboring) that the anchors adopt a perpendicular position to the ground (Fig. 16). For that, we need the tines of the tractor to be at the same height AND ACT OVER THE TURNING TOPS (A) FOUND AT BOTH SIDES OF THE HEADSTOCK (Fig. 17).

IMPORTANT: Must try not to drive over curves while laboring, specially with long ploughs, since the pulling strength may cause damage on both the tractor and plough structure.

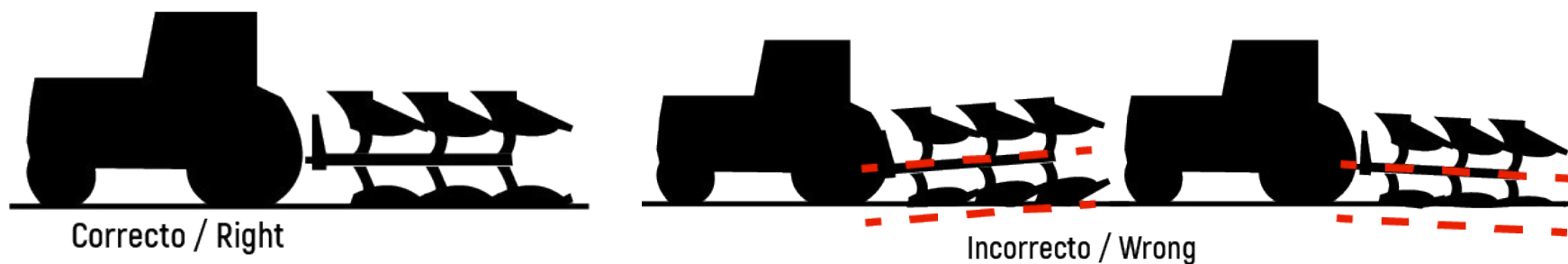


Fig. 15

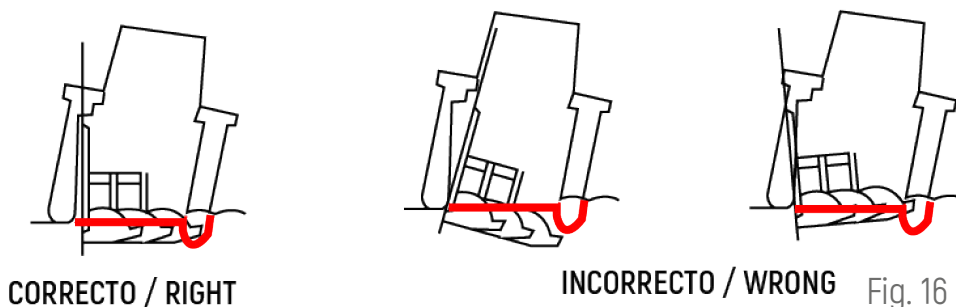


Fig. 16



6.- Working depth

The working depth is regulated through the lifting pull of the tractor. Nonetheless, in order to obtain an even working width in order to save power, all ploughs must be equipped with a depth-limiting wheel (Fig. 17) which height is regulated through the threaded tops A, as the figure 17 indicates.

There is a relationship between depth and working width that is convenient to respect in order to obtain the best results.

The board provides an excellent reference between working width and depth, which applied correctly it will turn out as great results. We recommend to maintain the right pressures in order to extend the life of the wheel, as noticed on the last board.

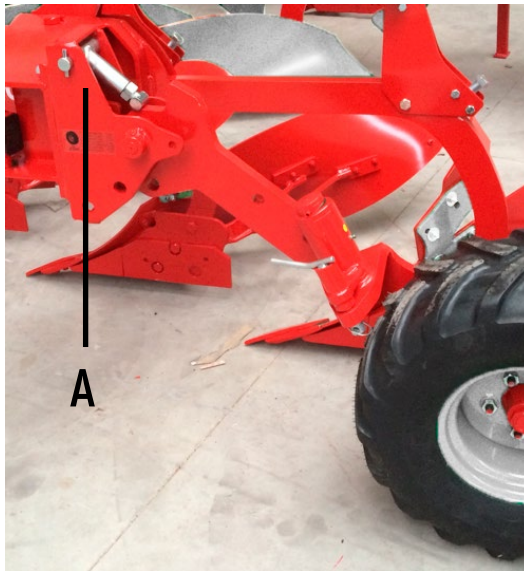


Fig. 17

Width	Inches	12"	14"	16"	18"	20"
	Cm	30	35	40	45	50
Maximum depth		24	28	32	36	40
Minimum depth		15	17	20	22	25
Recommended depth		21	25	28	32	35

6.00*9" - 10PR V50	5 Bar.
200/60*14,5" - 10PR	5 Bar.
250/65*14,5" - 12PR	4,75 Bar.
320/60-12 132A8 421TT	4 Bar.
400/60*15,5"TL-14PR FLOTATION	3,6 Bar.
500/45*22,5"-16PR	3,6 Bar.
08" 18x7 - 16PR TT	8 Bar.

10 = 1,2 cm



7.- Transport and parking

In order to ease the transport, the plough must be retracted to its minimum width, acting over the cut control system. Ploughs with great lengths (5 and 6 bodies) can be optionally given with polyvalent wheels of control/transport.

To transport the plough over the control / transport wheel, with the plough elevated, place the bolt B in the hole C and unplug the arm from the headstock 3rd point. Block the oscillating shaft with the bolt D (Fig.19).

The support pawn (Fig.18), assures an static position of the plough on the parking.



Fig. 18

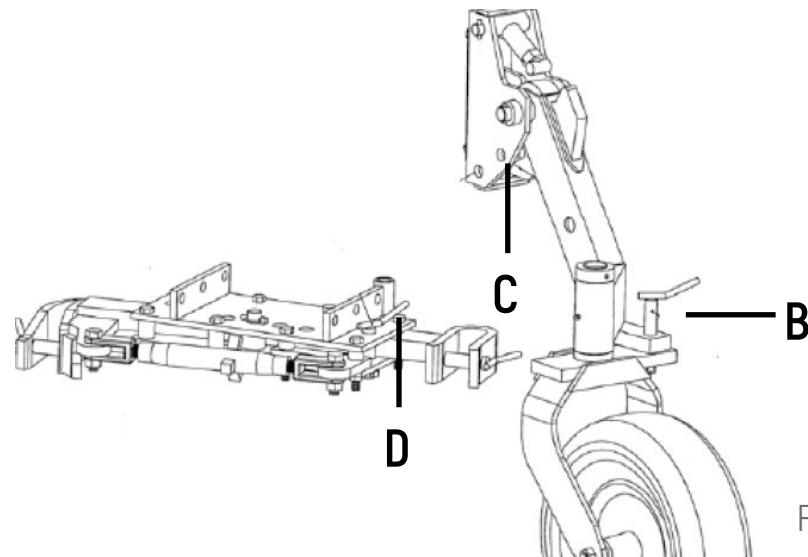


Fig. 19



8.- Maintenance

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

Lubing: must grease regularly the turning points based on the conditions of the ambiantal conditions, both dust and humidity, to assure that no waste of the machine happens. In the reversible ploughs it-s recommended to grease, if the greasers allow it, once per each hand (clockwise and counter-wise), assuring that the grease, affected by gravity, it extends for the whole turn and not just from the greasing point to below.

Safe maintenance

Get familiar with the maintenance procededures 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, feets, 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 immediatly. 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 leak. Even if after all this measures an accident happens, go immediatly 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.



9.- Optional gear

FF/FB Ovlac ploughs can be equipped with:

1. Trashholder (Fig. 20)
2. Landslide extension (Fig. 21)
3. Transport wheel (Fig. 22)
4. Discs (Fig. 23)
5. Hydraulic wheel (Fig. 24)
6. Hydraulic width of the 1st body (Fig. 25)



Fig. 21



Fig. 22



Fig. 25



Fig. 24

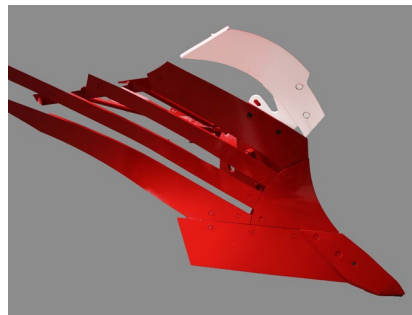


Fig. 20



Fig. 23



10.- 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 though the power limit stated on the technical data sheet, or abnormal maneuvers are made.



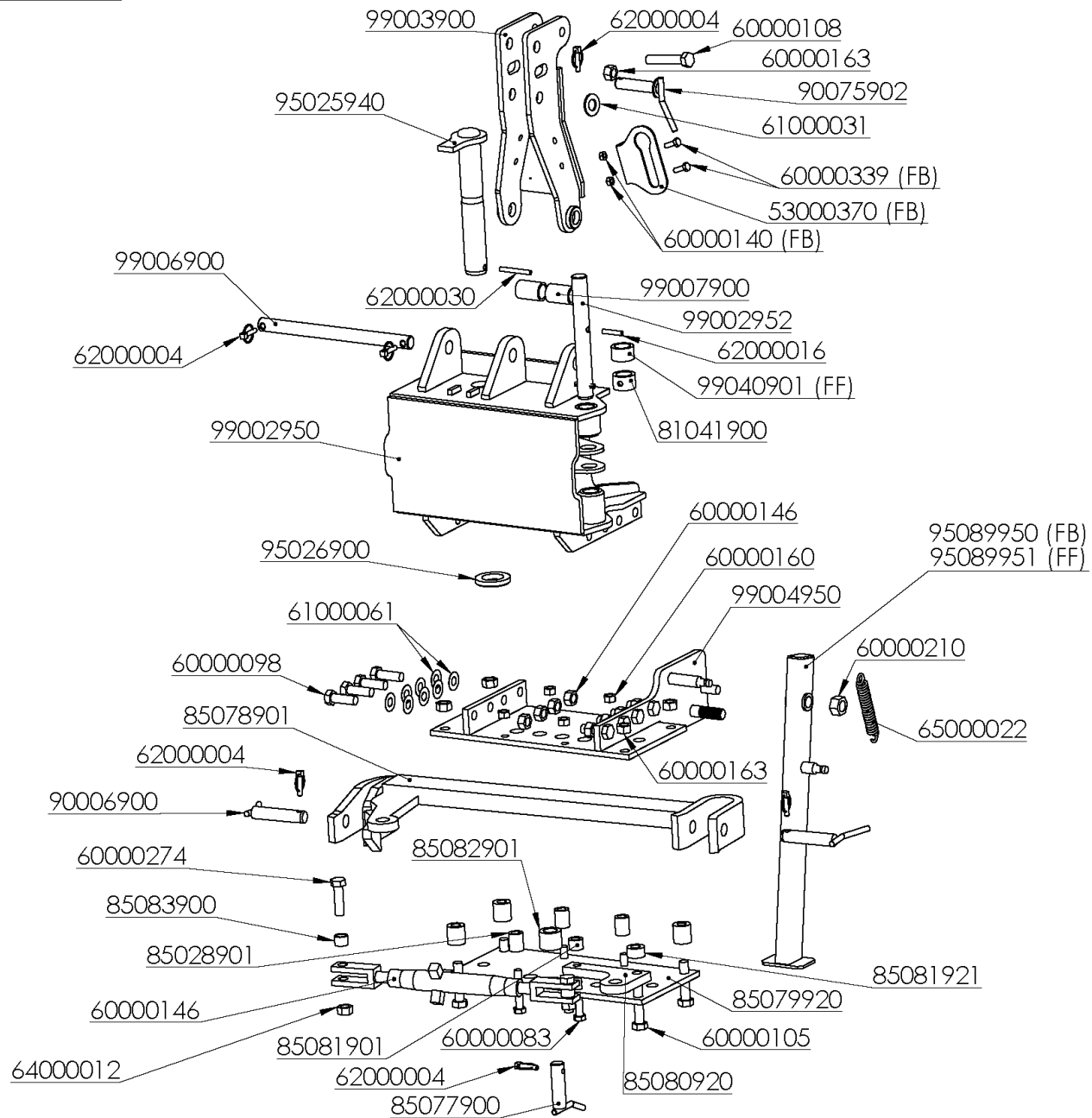
Index

HEADSTOCK 100 FB-FF	21
HEADSTOCK 150 FB-FF	23
HEADSTOCK 180 FB-FF	25
FRAME 100 FF	27
FRAME 100 FB.....	29
FRAME 150 FF	31
FRAME 150 FB.....	33
FRAME 180 FF	35
FRAME 180 FB.....	37
MODULE FF	39
MODULE FB.....	41
BODY ASSEMBLY FF	43
BODY ASSEMBLY FB	45
DISCS 20` FB-FF.....	47
DISCS NON STOP FB-FF	49
OPENING SYSTEM FB	51
1ST BODY HYDRAULIC ADJUSTMENT FB.....	53
TRASHBOARDS FB-FF	55
SKIMMERS FB	57
BODIES V-97 V-34 V-90 V-74 FB-FF	59
BODIES V-40 FB-FF.....	61
SLATTED BODY OV FB-FF	63
PLASTIC MOULDBOARD BODIES FB-FF.....	65
SHARE KNIFE SUPPLEMENT FB-FF.....	67

MOULDBOARD TAIL SUPPLEMENT FB-FF	69
LANDSLIDE EXTENSION FB-FF.....	71
FURROW WIDENER SUPPLEMENT FB-FF	73
METALLIC WHEEL FB-FF	75
PNEUMATIC WHEEL FB-FF	77
CONTROL & TRANSPORT WHEEL FB-FF	79
OSCILLATING WHEEL FB	81
ADVANCED OSCILLATING WHEEL ASSEMBLY FB	83



HEADSTOCK 100 FB-FF

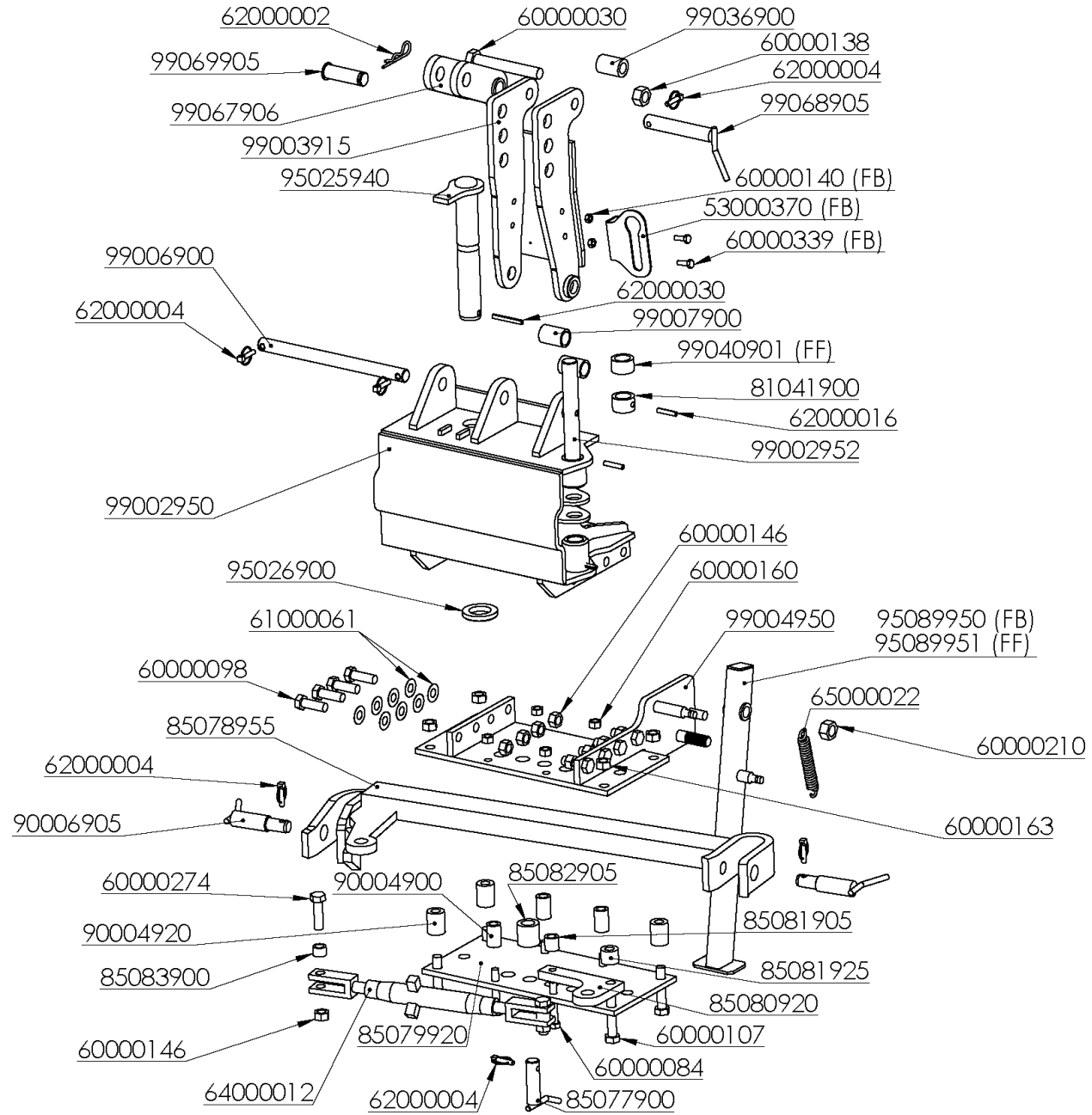


HEADSTOCK 100 FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	85077900	BULON D=30*105mm.TIRO FB
60000083	TORN.EXAG.DIN-931 16* 90 8.8	85078901	BALANC.DESPL.40mm.CAT-II
60000098	TORN.EXAG.DIN-931 20* 60 8.8	85079920	PLACA SUP./INF.BALANC.FB (D/03)
60000105	TORN.EXAG.DIN-931 20* 90 8.8	85080920	OREJA PLACA BALANC.DESPL. (D/03)
60000108	TORN.EXAG.DIN-931 20*110 8.8 ZINC.	85081901	SEP.B.P.32/20* 23mm.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	85081921	CASQ.D=40/21*22mm.SEP.BALANC.40mm.FB (D/03)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	85082901	CASQ.D= 50/31*40mm.APOYO BALANC.DESPL.40mm.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	85083900	CASQ.D= 29,8/21*21mm.ARTIC.OREJAS FRBV/FB
60000163	TUER.EXAG.DIN-934 20 8.8	90006900	BULON D=28*130mm.BALANC.CAT.II ZINC.
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	95025940	BULON D=50*336mm.GIRO BAST.FBN
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95026900	ARAND.P/BULON GIRO BASTIDOR
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)	95089950	PEON FBN
61000061	ARAND.CALZO CABEZAL FB	95089951	PEON FFN
62000004	PASADOR ANILLA 10 ZINC.	99002950	CABEZAL FBN
62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.	99002952	BULON D=34,6*288mm.TENSOR ANTER.FBN
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	99003900	TORRETA FB-2/3/4
64000012	TENSOR C/HOR.D=20 30195 ZINC.	99004950	SOP.BALANC.FBN
65000022	MUELLE TRACCIÓN 225/175*26*5 EECC 195mm	99006900	BULON D=30*400mm.GIRO TORRETA FB
81041900	SEP.B.P.51/36* 32mm.ZINC.C/TAL.	99007900	SEP.TUBO 1"1/4* 60mm.ZINC.
85028901	SEP.B.P.32/20* 42mm.	99040901	SEP.B.P.51/36* 30mm.ZINC.
85028921	CASQ.D=40/21*42mm.SEP.BALANC.40mm.FB (D/03)		



HEADSTOCK 150 FB-FF

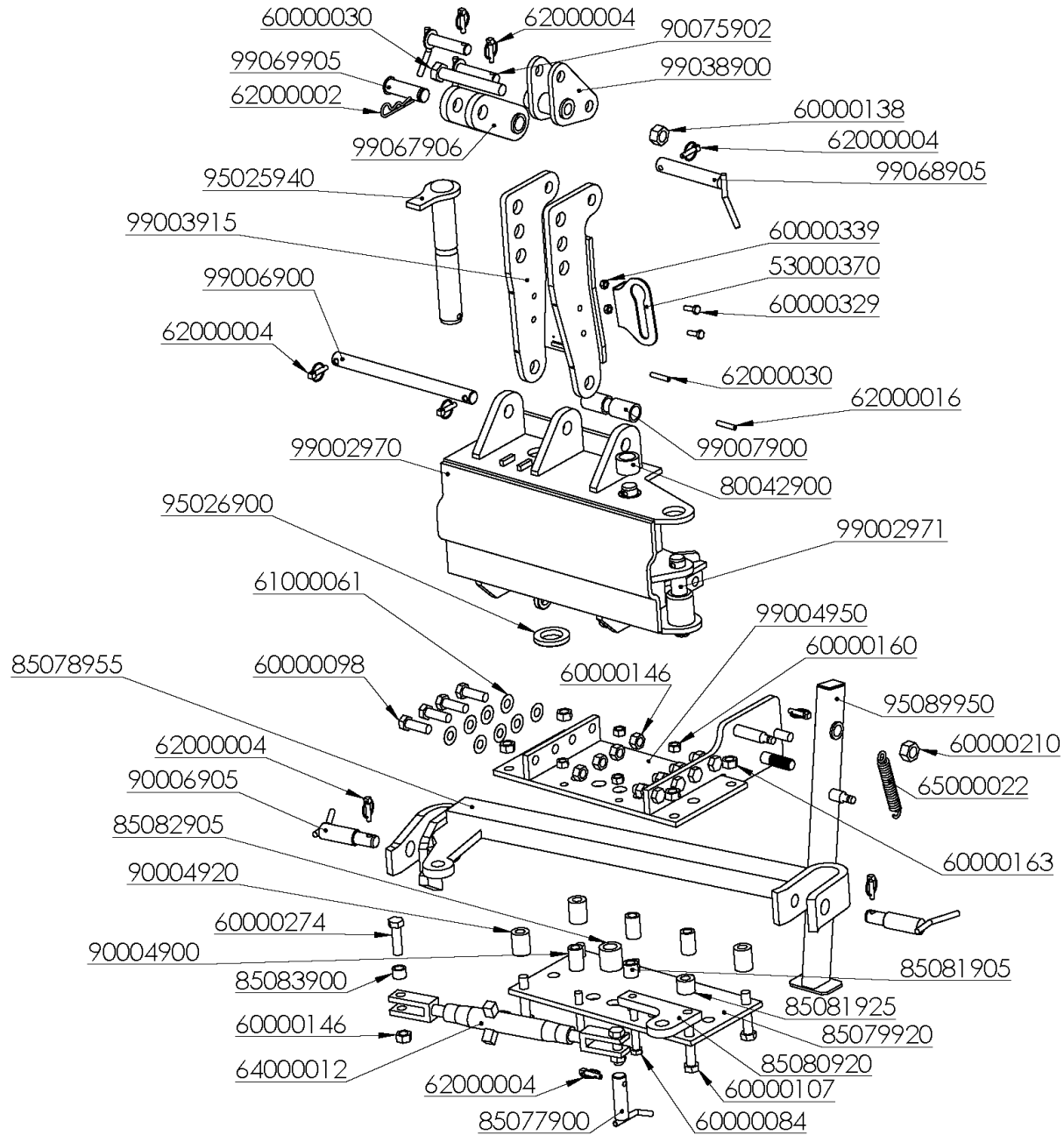


HEADSTOCK 150 FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	85080920	OREJA PLACA BALANC.DESPL. (D/03)
60000030	TORN.EXAG.C/LAR.1"*175 SAE 12.9	85081905	SEP.B.P.32/20* 31mm.
60000084	TORN.EXAG.DIN-931 16*100 8.8	85081925	CASQ.D=40/21*32mm.SEP.BALANC.50mm. FB (D/03)
60000098	TORN.EXAG.DIN-931 20* 60 8.8	85082905	CASQ.D= 50/31*50mm.APOYO BALANC.DESPL.50mm.
60000107	TORN.EXAG.DIN-931 20*100 8.8	85083900	CASQ.D= 29,8/21*21mm.ARTIC.OREJAS FRBV/FB
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	90004900	SEP.B.P.32/20* 52mm.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	90004920	CASQ.D=40/21*52mm.SEP.BALANC.50mm.FB (D/03)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	90006905	BULON D=36/28*140mm.BALANC.CAT.III ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	95025940	BULON D=50*336mm.GIRO BAST.FBN
60000163	TUER.EXAG.DIN-934 20 8.8	95026900	ARAND.P/BULON GIRO BASTIDOR
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	95089950	PEON FBN
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	95089951	PEON FFN
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	99002950	CABEZAL FBN
61000061	ARAND.CALZO CABEZAL FB	99002952	BULON D=34,6*288mm.TENSOR ANTER.FBN
62000002	PASADOR "R" 5 ZINC.	99003915	TORRETA FB-5 (D/02)
62000004	PASADOR ANILLA 10 ZINC.	99004950	SOP.BALANC.FBN
62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.	99006900	BULON D=30*400mm.GIRO TORRETA FB
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	99007900	SEP.TUBO 1"1/4* 60mm.ZINC.
64000012	TENSOR C/HOR.D=20 30195 ZINC.	99036900	SEP.B.P.42/26* 60mm.ZINC.
65000022	MUELLE TRACCIÓN 225/175*26*5 EECC 195mm	99040901	SEP.B.P.51/36* 30mm.ZINC.
81041900	SEP.B.P.51/36* 32mm.ZINC.C/TAL.	99067906	BIELA TORRETA FB-5 (D/02)
85077900	BULON D=30*105mm.TIRO FB	99068905	BULON D=31,5*180mm.CONEX.BIELA TORRETA (D/02)
85078955	BALANC.DESPL.50mm.CAT-III/III	99069905	BULON D=31,5*106mm.TIRO BIELA FB-5/6 (D/02)
85079920	PLACA SUP./INF.BALANC.FB (D/03)		



HEADSTOCK 180 FB-FF

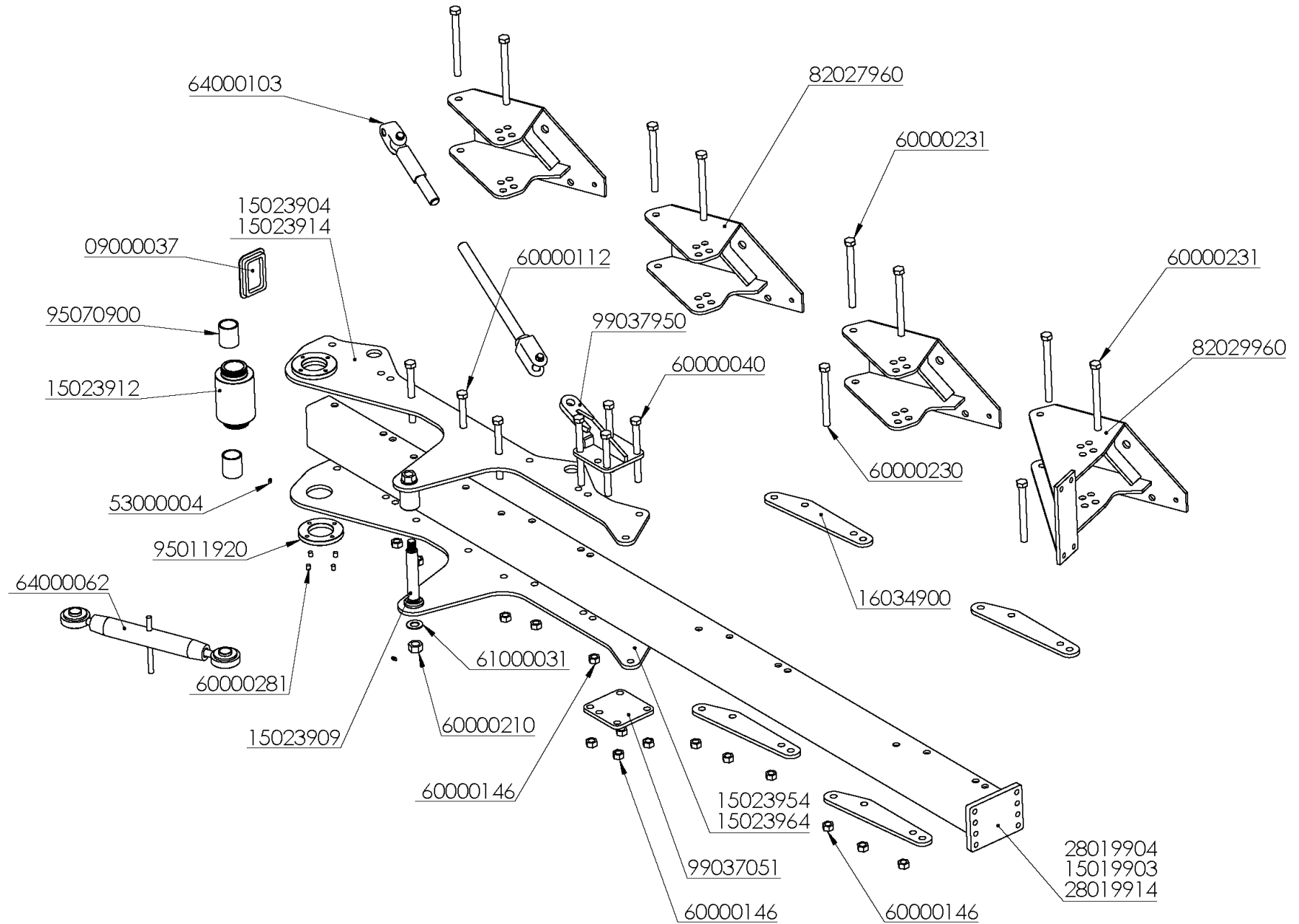


HEADSTOCK 180 FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	85079920	PLACA SUP./INF.BALANC.FB (D/03)
60000030	TORN.EXAG.C/LAR.1"*175 SAE 12.9	85080920	OREJA PLACA BALANC.DESPL. (D/03)
60000084	TORN.EXAG.DIN-931 16*100 8.8	85081905	SEP.B.P.32/20* 31mm.
60000098	TORN.EXAG.DIN-931 20* 60 8.8	85081925	CASQ.D=40/21*32mm.SEP.BALANC.50mm. FB (D/03)
60000107	TORN.EXAG.DIN-931 20*100 8.8	85082905	CASQ.D= 50/31*50mm.APOYO BALANC.DESPL.50mm.
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	85083900	CASQ.D= 29,8/21*21mm.ARTIC.OREJAS FRBV/FB
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	90004900	SEP.B.P.32/20* 52mm.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	90004920	CASQ.D=40/21*52mm.SEP.BALANC.50mm.FB (D/03)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	90006905	BULON D=36/28*140mm.BALANC.CAT.III ZINC.
60000163	TUER.EXAG.DIN-934 20 8.8	90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	95025940	BULON D=50*336mm.GIRO BAST.FBN
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	95026900	ARAND.P/BULON GIRO BASTIDOR
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95089950	PEON FBN
61000061	ARAND.CALZO CABEZAL FB	99002970	CABEZAL FBN-6
62000002	PASADOR "R" 5 ZINC.	99002971	BULON D=34,6*190mm.TENSOR ANTER.FBN-6 + DACROMET
62000004	PASADOR ANILLA 10 ZINC.	99003915	TORRETA FB-5 (D/02)
62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.	99004950	SOP.BALANC.FBN
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	99006900	BULON D=30*400mm.GIRO TORRETA FB
64000012	TENSOR C/HOR.D=20 30195 ZINC.	99007900	SEP.TUBO 1"1/4* 60mm.ZINC.
65000022	MUELLE TRACCIÓN 225/175*26*5 EECC 195mm	99038900	SOP.DOBLE TENSOR FB/FF
80042900	SEP.B.P.51/36* 35mm.ZINC.	99067906	BIELA TORRETA FB-5 (D/02)
85077900	BULON D=30*105mm.TIRO FB	99068905	BULON D=31,5*180mm.CONEX.BIELA TORRETA (D/02)
85078955	BALANC.DESPL.50mm.CAT-III/III	99069905	BULON D=31,5*106mm.TIRO BIELA FB-5/6 (D/02)



FRAME 100 FF

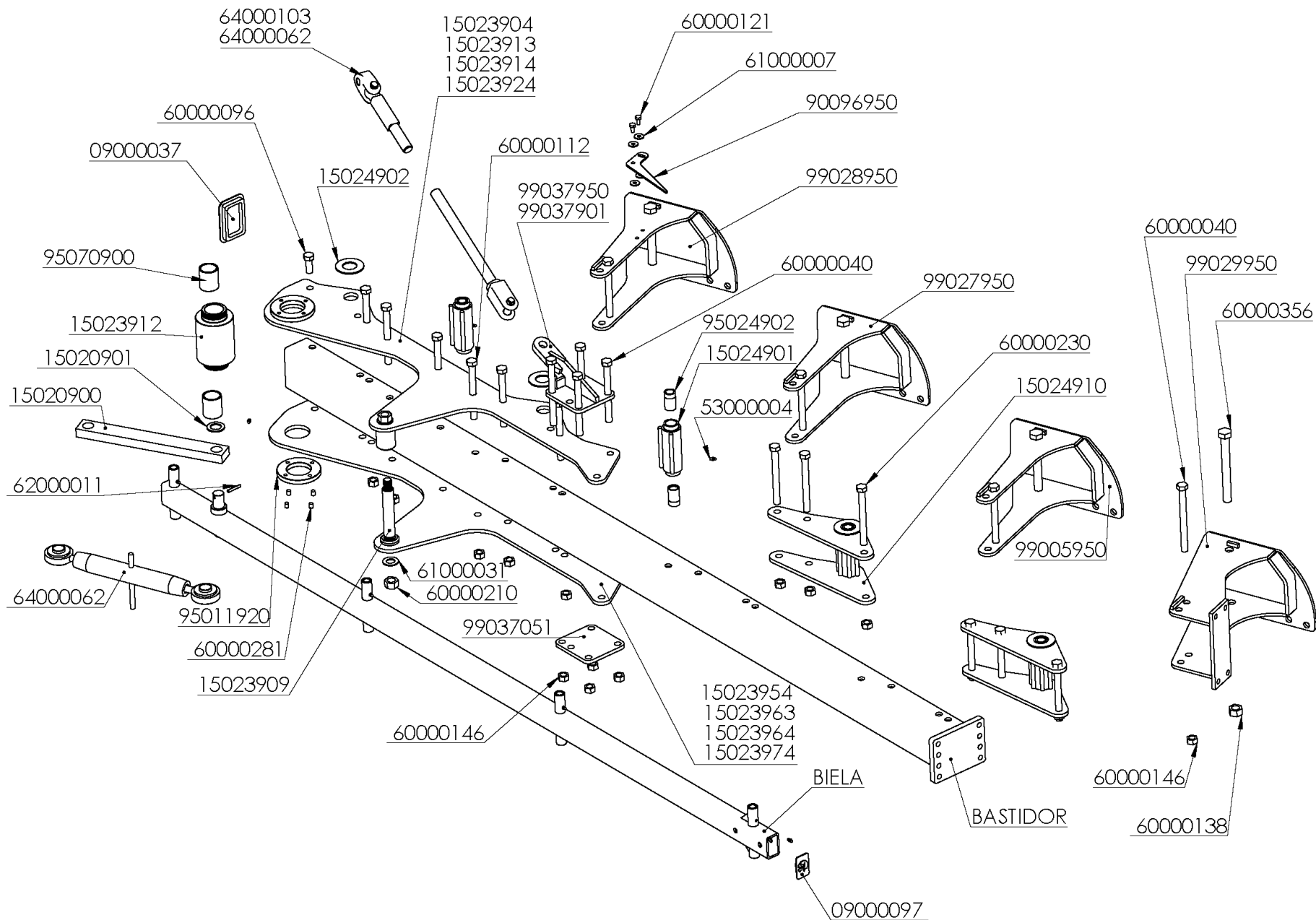


FRAME 100 FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
15019903	BAST.SN-3-95	60000230	TORN.EXAG.C/LAR.20*200 12.9
15023904	PLACA SUP.SOP.GIRO BAST.SN-3/4-95	60000231	TORN.EXAG.C/LAR.20*225 12.9
15023908	SEP.TUBO 20*150mm.	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15023912	CASQ.GIRO BAST.SN-150 C/VARILLAS	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023914	PLACA SUP.SOP.GIRO BAST.SN-3/4-85	64000062	SENSOR C/ROT.D=35 30386 ZINC.
15023954	PLACA INF.SOP.GIRO BAST.SN-3/4-95	64000103	SENSOR 1"1/4*650 C/HOR.30231-GRILL.30367 ZINC.
15023964	PLACA INF.SOP.GIRO BAST.SN-3/4-85	82027960	SOP.ARTIC.CAMBA FFN (BAST.150)
28019904	BAST.FBN-4-95	82029960	SOP.ARTIC.CAMBA/RDA.FFN (BAST.150)
28019914	BAST.FBN-4-85	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
53000004	ENGRASADOR AC° DIN-71412 8*125	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
60000040	TORN.EXAG.DIN-931 20*230 8.8	99037051	PLACA BASE SOP.TENSOR FBN-100
60000112	TORN.EXAG.DIN-931 20*200 8.8	99037950	SOP.TENSOR FBN-100
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.		



FRAME 100 FB



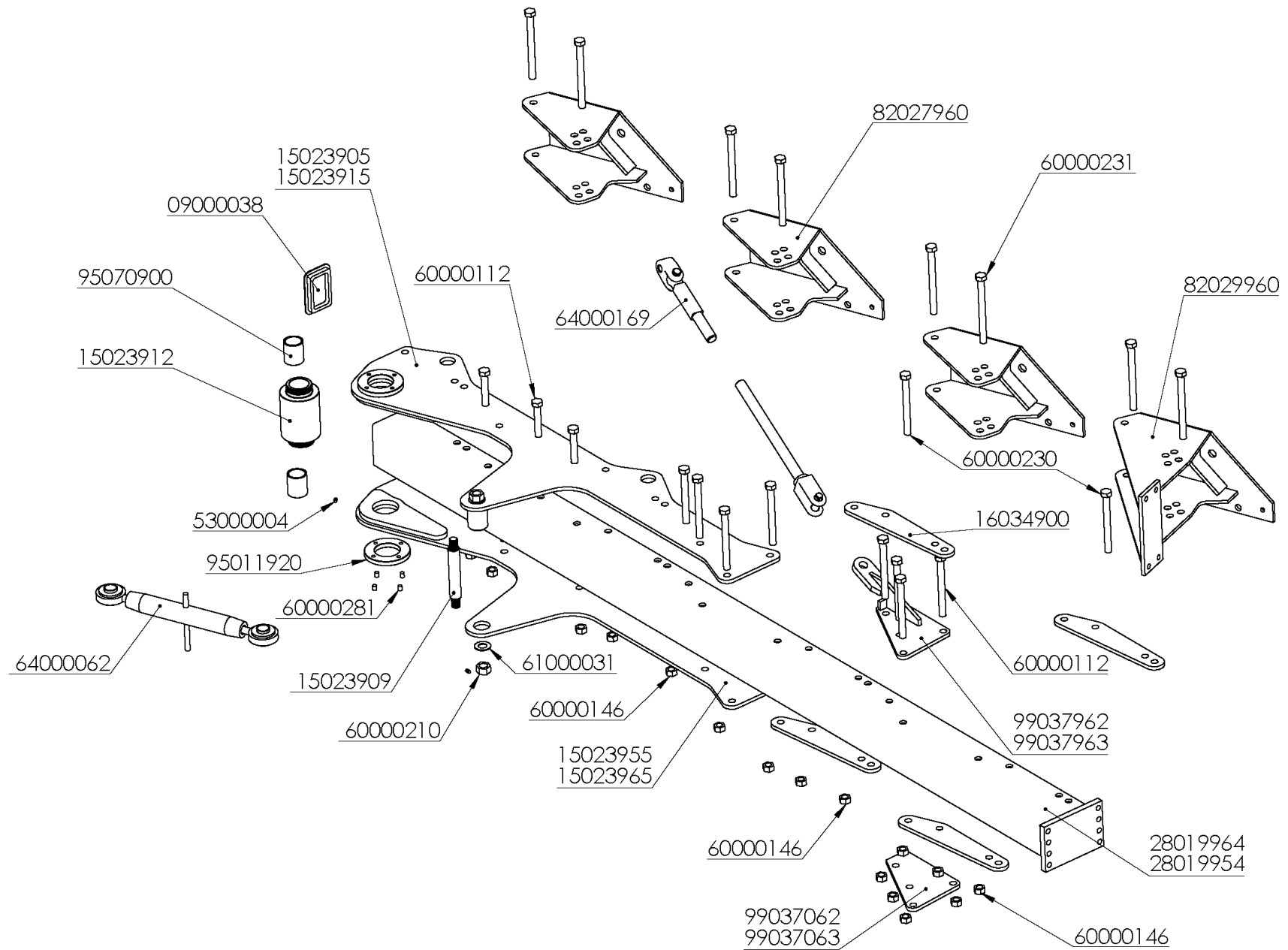
FRAME 100 FB

BASTIDOR		BIELA	
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15019903	BAST.SN-3-95	15021903	BIELA SN-3-95
15019912	BAST.SN-2-85	15021912	BIELA SN-2-85
15019913	BAST.SN-3-85	15021913	BIELA SN-3-85
15019923	BAST.SN-3-105	15021923	BIELA SN-3-105
15019924	BAST.SN-4-105	15021924	BIELA SN-4-105
28019904	BAST.FBN-4-95	15021954	BIELA SN-4-95-AMP.
28019914	BAST.FBN-4-85	15021964	BIELA SN-4-85-AMP.

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.	60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
9000097	TAPON GOMA 80* 50* 6mm.	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
15020900	LLANTA TIRO BIELA SN (500/440)	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
15020901	ARAND.D=35,5mm.LLANTA TIRO BIELA SN	60000230	TORN.EXAG.C/LAR.20*200 12.9
15023904	PLACA SUP.SOP.GIRO BAST.SN-3/4-95	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15023909	BULON D=34,6*240mm.ROSC.TENSOR POST.SN + DACROMET	60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
15023911	CASQ.GIRO BAST.SN-120 C/VARILLAS	61000007	ARAND.DIN-9021 10 ZINC.
15023913	PLACA SUP.SOP.GIRO BAST.SN-2-85	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023914	PLACA SUP.SOP.GIRO BAST.SN-3/4-85	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
15023924	PLACA SUP.SOP.GIRO BAST.SN-3/4-105	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15023954	PLACA INF.SOP.GIRO BAST.SN-3/4-95	64000103	TENSOR 1"1/4*650 C/HOR.30231-GRILL.30367 ZINC.
15023963	PLACA INF.SOP.GIRO BAST.SN-2-85	90096950	MARCADOR TAJO 2P ZINC.
15023964	PLACA INF.SOP.GIRO BAST.SN-3/4-85	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
15023974	PLACA INF.SOP.GIRO BAST.SN-3/4-105	95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
15024901	CASQ.D= 60/45,9/35*183mm.C/VAR.PORTAC.SN	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
15024902	ARAND.D=90/46*4mm.CEM.PORTAC.SN	99027950	SOP.ARTIC.CAMBA FBN
15024910	SOP.GIRO PORTACAMBAS SN	99028950	SOP.ARTIC.MARCADOR FBN
53000004	ENGRASADOR AC° DIN-71412 8*125	99029950	SOP.ARTIC.CAMBA/RDA.FBN
60000040	TORN.EXAG.DIN-931 20*230 8.8	99037901	SOP.TENSOR BASTIDOR FB-2
60000096	TORN.EXAG.DIN-933 20* 50 8.8	99037950	SOP.TENSOR FBN-100
60000112	TORN.EXAG.DIN-931 20*200 8.8	99037951	LLANTA SOP.TENSOR FBN-100
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.	99005950	PLACA PORTACAMBA FBN



FRAME 150 FF

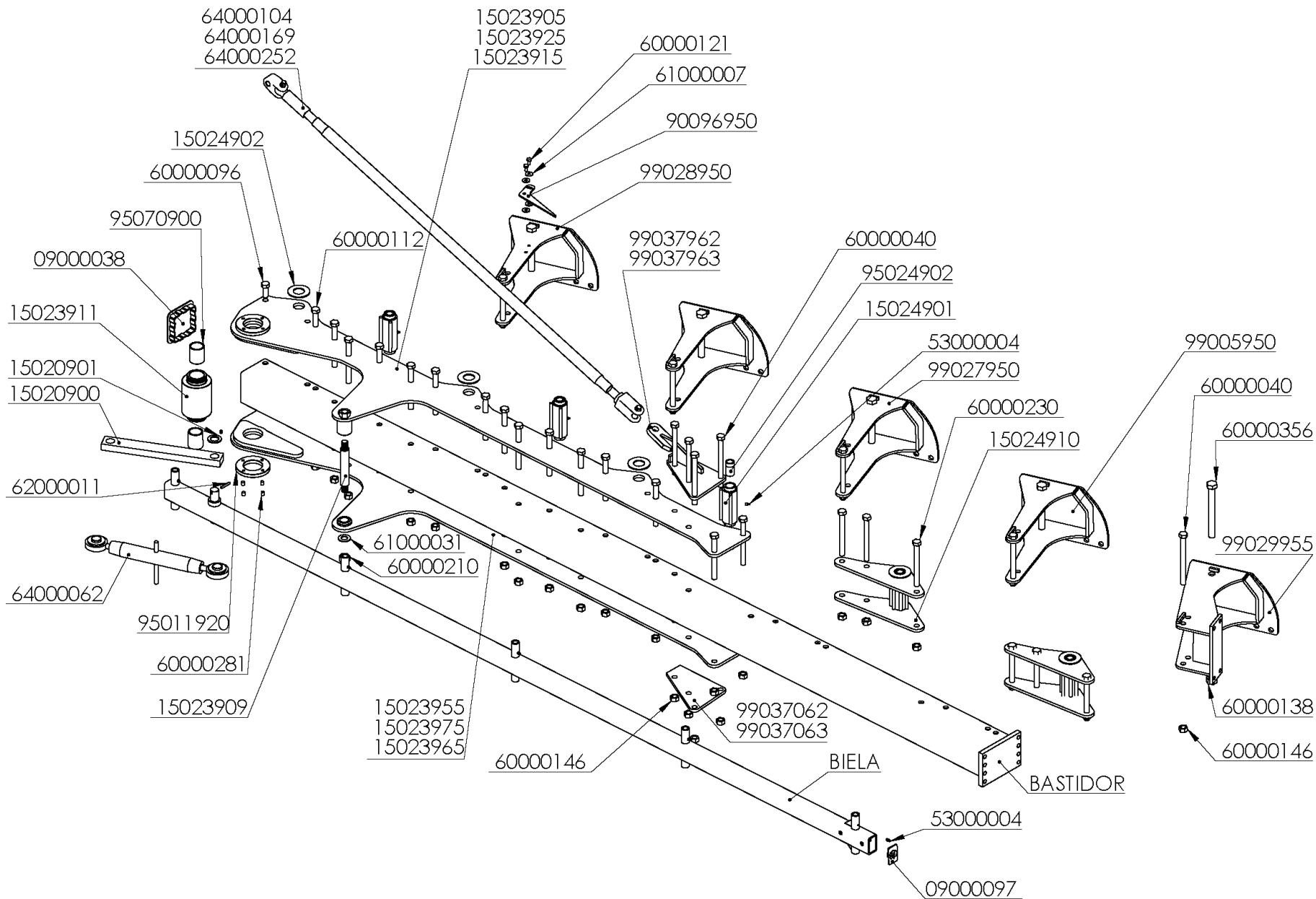


FRAME 150 FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000038	TAPON GOMA 150*150*10mm.	60000231	TORN.EXAG.C/LAR.20*225 12.9
15023905	PLACA SUP.SOP.GIRO BAST.SN-4A/5-95	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15023908	SEP.TUBO 20*150mm.	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023912	CASQ.GIRO BAST.SN-150 C/VARILLAS	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15023915	PLACA SUP.SOP.GIRO BAST.SN-4A/5-85	64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
15023955	PLACA INF.SOP.GIRO BAST.SN-4A/5-95	82027960	SOP.ARTIC.CAMBA FFN (BAST.150)
15023965	PLACA INF.SOP.GIRO BAST.SN-4A/5-85	82029960	SOP.ARTIC.CAMBA/RDA.FFN (BAST.150)
28019954	BAST.FBN-4-95-AMP	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
28019964	BAST.FBN-4-85-AMP	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
53000004	ENGRASADOR AC° DIN-71412 8*125	99037051	PLACA BASE SOP.TENSOR FBN-100
60000040	TORN.EXAG.DIN-931 20*230 8.8	99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
60000112	TORN.EXAG.DIN-931 20*200 8.8	99037063	PLACA BASE SOP.TENSOR FBN-150-85
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	99037962	SOP.TENSOR FBN-150-95/105
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	99037963	SOP.TENSOR FBN-150-85
60000230	TORN.EXAG.C/LAR.20*200 12.9		



FRAME 150 FB



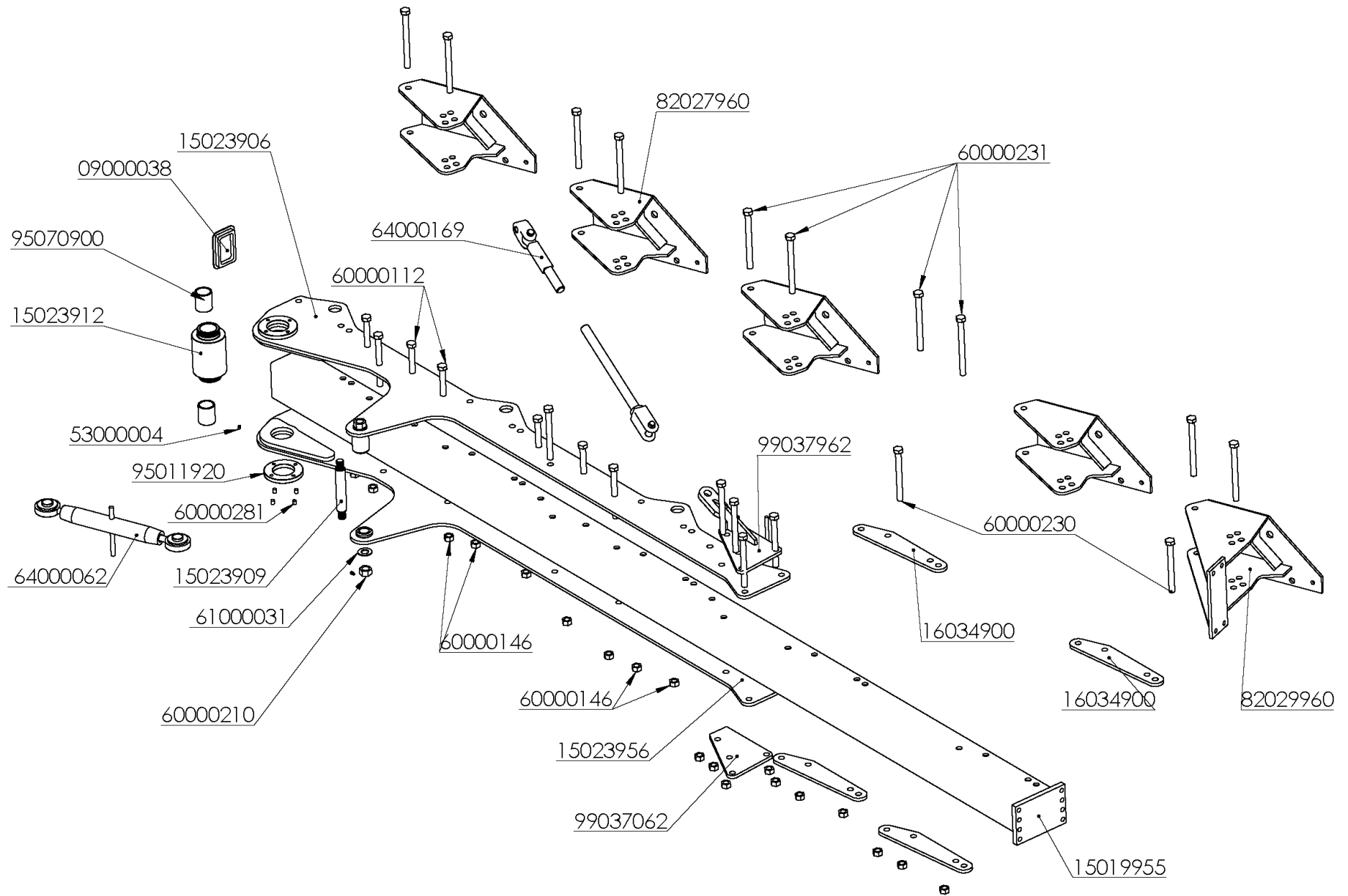
FRAME 150 FB

BASTIDOR		BIELA	
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15019953	BAST.SN-3-95-(150)	15021903	BIELA SN-3-95
28019954	BAST.FBN-4-95-AMP	15021954	BIELA SN-4-95-AMP.
28019974	BAST.FBN-4-105-AMP	15021974	BIELA SN-4-105-AMP.
28019964	BAST.FBN-4-85-AMP	15021964	BIELA SN-4-85-AMP.

REFERENCIA	DESCRIPCIÓN
60000210	TUER.AUTO.DIN-985 1" SAE 8.8
60000230	TORN.EXAG.C/LAR.20*200 12.9
60000281	TORN.ALLEN DIN-913 12* 14 12.9
60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
61000007	ARAND.DIN-9021 10 ZINC.
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
64000062	TENSOR C/ROT.D=35 30386 ZINC.
64000104	TENSOR 1"1/4*1450 C/HOR.30231-GRILL.30367
64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
64000252	TENSOR 1"1/4*1850 C/HOR.30231-GRILL.30367
90096950	MARCADOR TAJO 2P ZINC.
95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
99027950	SOP.ARTIC.CAMBA FBN
99028950	SOP.ARTIC.MARCADOR FBN
99029955	SOP.ARTIC.CAMBA/RDA.FBN-5A/6
99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
99037063	PLACA BASE SOP.TENSOR FBN-150-85
99037962	SOP.TENSOR FBN-150-95/105
99037963	SOP.TENSOR FBN-150-85



FRAME 180 FF

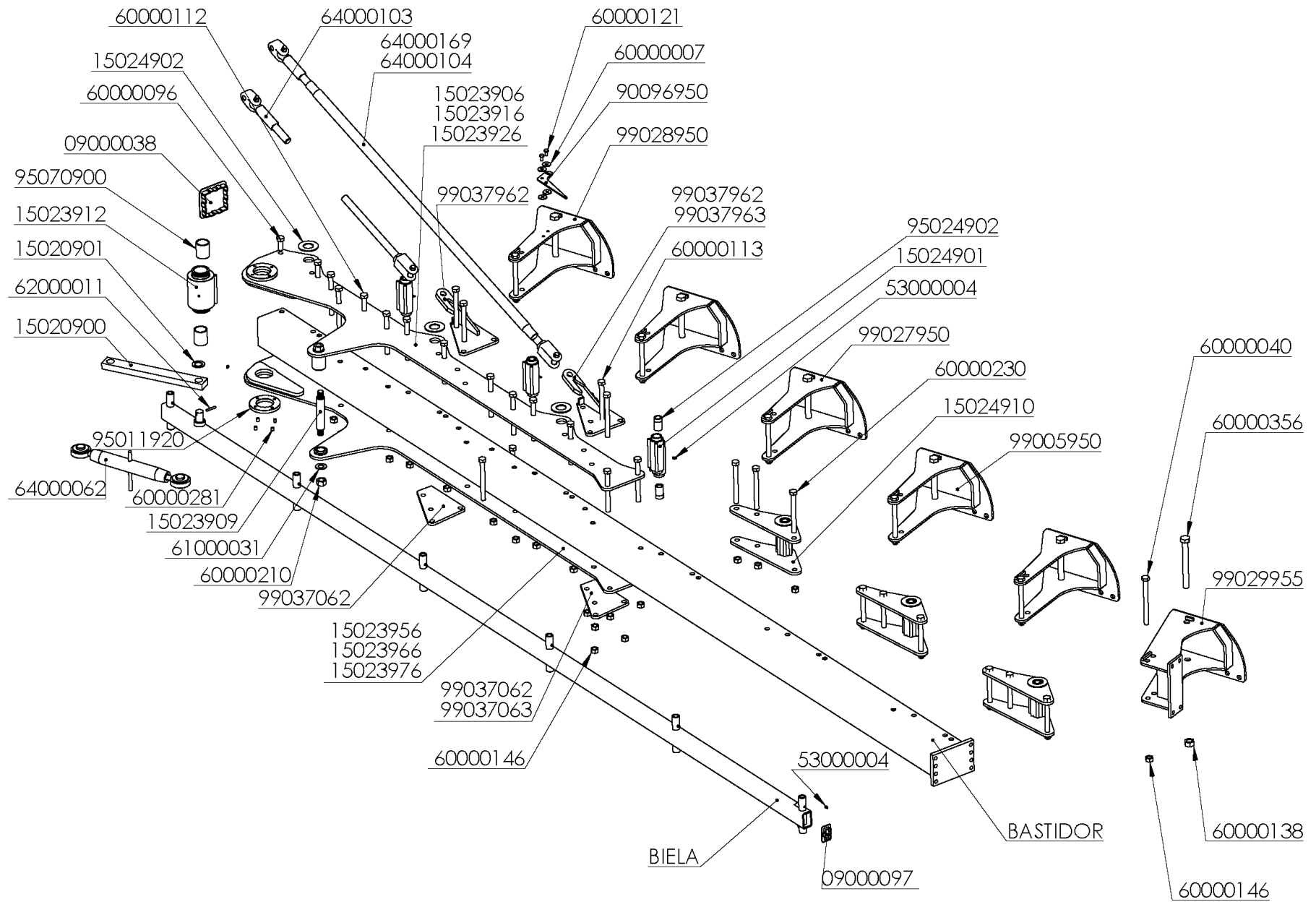


FRAME 180 FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000038	TAPON GOMA 150*150*10mm.	60000231	TORN.EXAG.C/LAR.20*225 12.9
15019955	BAST.SN-5-95-AMP	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15023906	PLACA SUP.SOP.GIRO BAST.SN-5A/6-95	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023908	SEP.TUBO 20*150mm.	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15023912	CASQ.GIRO BAST.SN-150 C/VARILLAS	64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
15023956	PLACA INF.SOP.GIRO BAST.SN-5A/6-95	82027960	SOP.ARTIC.CAMBA FFN (BAST.150)
53000004	ENGRASADOR AC° DIN-71412 8*125	82029960	SOP.ARTIC.CAMBA/RDA.FFN (BAST.150)
60000040	TORN.EXAG.DIN-931 20*230 8.8	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
60000112	TORN.EXAG.DIN-931 20*200 8.8	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	99037962	SOP.TENSOR FBN-150-95/105
60000230	TORN.EXAG.C/LAR.20*200 12.9		



FRAME 180 FB



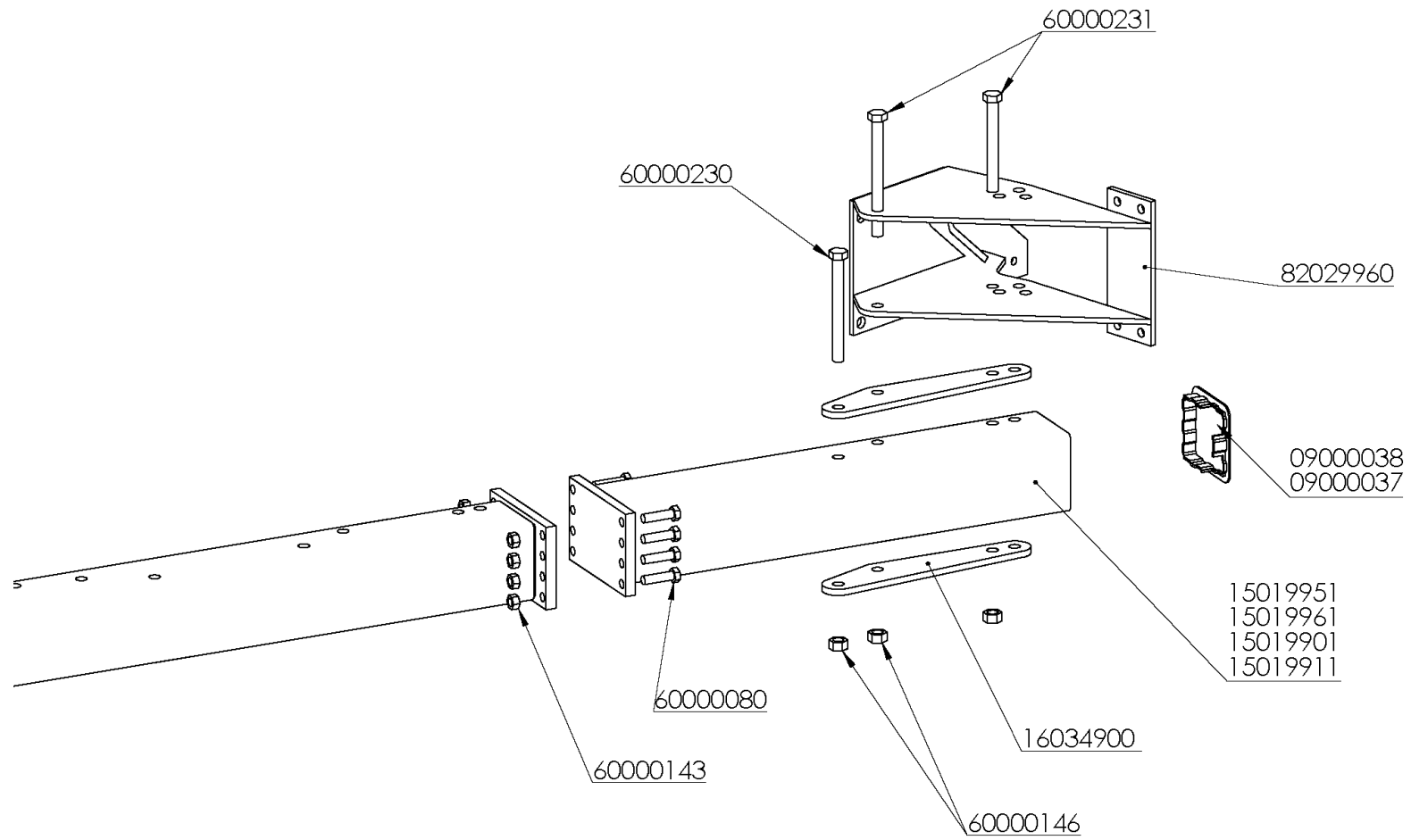
FRAME 180 FB

BASTIDOR		BIELA	
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15019906	BAST.SN-6-95	15021906	BIELA SN-6-95
15019916	BAST.SN-6-85	15021916	BIELA SN-6-85
15019955	BAST.SN-5-95-AMP	15021955	BIELA SN-5-95-AMP.
15019965	BAST.SN-5-85-AMP	15021965	BIELA SN-5-85-AMP.
15019975	BAST.SN-5-105-AMP	15021975	BIELA SN-5-105-AMP.

REFERENCIA	DESCRIPCIÓN
60000210	TUER.AUTO.DIN-985 1" SAE 8.8
60000230	TORN.EXAG.C/LAR.20*200 12.9
60000281	TORN.ALLEN DIN-913 12* 14 12.9
60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
61000007	ARAND.DIN-9021 10 ZINC.
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
64000062	TENSOR C/ROT.D=35 30386 ZINC.
64000103	TENSOR 1"1/4*650 C/HOR.30231-GRILL.30367 ZINC.
64000104	TENSOR 1"1/4*1450 C/HOR.30231-GRILL.30367
64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
90096950	MARCADOR TAJO 2P ZINC.
95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
99005950	PLACA PORTACAMBA FBN
99027950	SOP.ARTIC.CAMBA FBN
99028950	SOP.ARTIC.MARCADOR FBN
99029955	SOP.ARTIC.CAMBA/RDA.FBN-5A/6
99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
99037063	PLACA BASE SOP.TENSOR FBN-150-85
99037962	SOP.TENSOR FBN-150-95/105
99037963	SOP.TENSOR FBN-150-85



MODULE FF

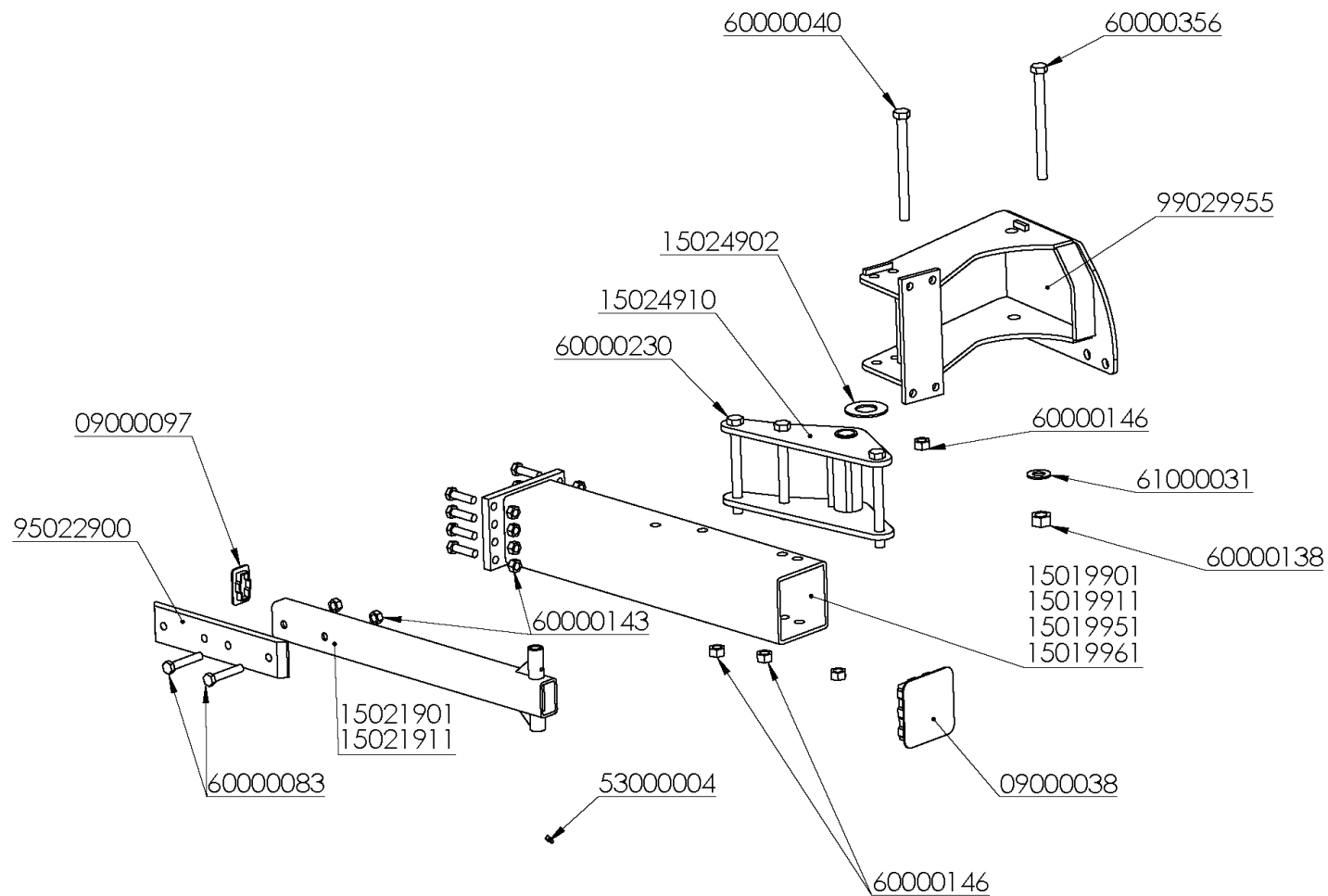


MODULE FF

REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.
9000038	TAPON GOMA 150*150*10mm.
15019901	BAST.SN-1-95-(100)
15019911	BAST.SN-1-85-(100)
15019951	BAST.SN-1-95-(150)
15019961	BAST.SN-1-85-(150)
16034900	PLACA ASIEN TO SOPORTES L
60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000230	TORN.EXAG.C/LAR.20*200 12.9
60000231	TORN.EXAG.C/LAR.20*225 12.9
82029960	SOP.ARTIC.CAMBA/RDA.FFN (BAST.150)



MODULE FB

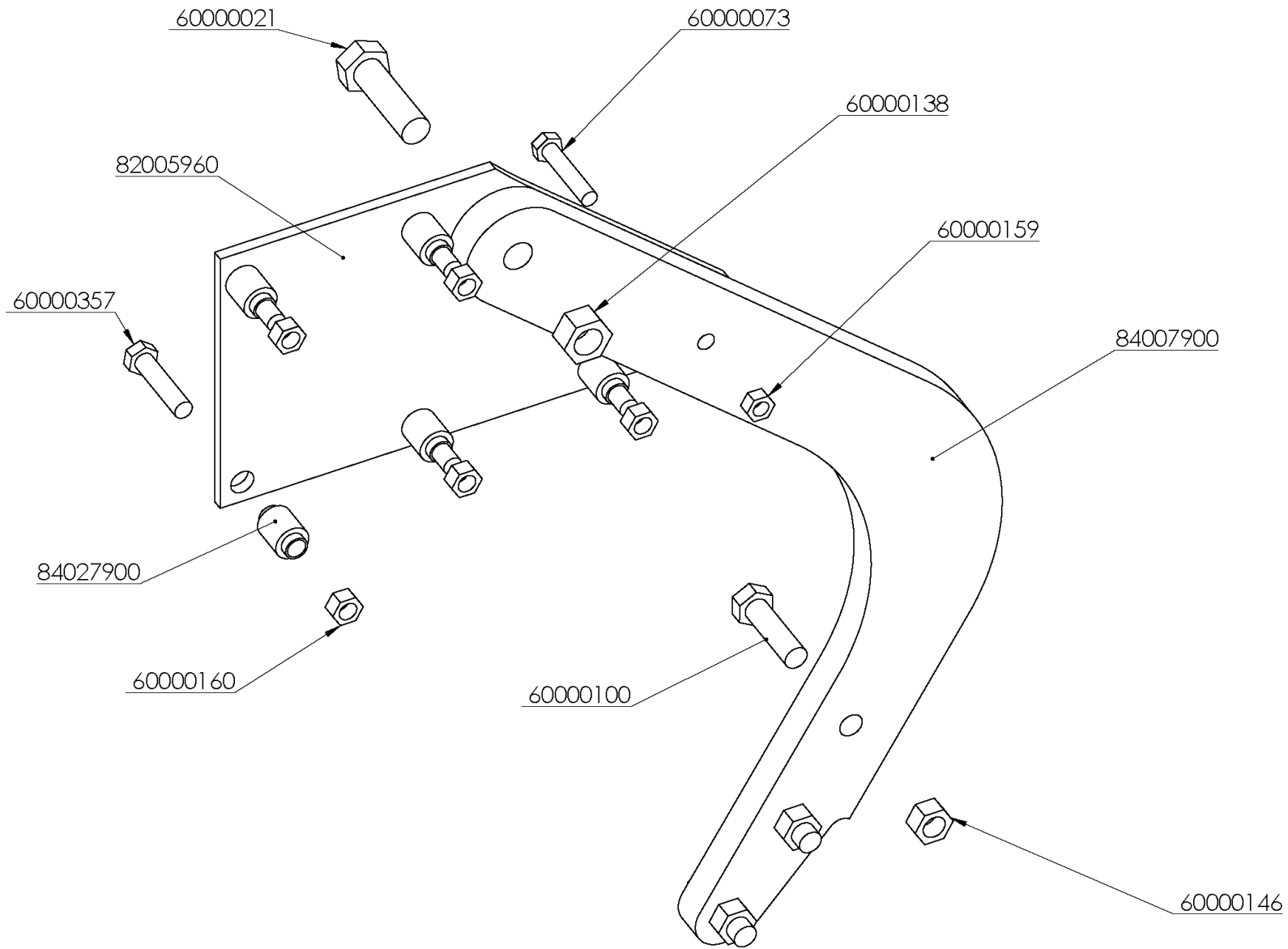


MODULE FB

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000038	TAPON GOMA 150*150*10mm.	60000040	TORN.EXAG.DIN-931 20*230 8.8
9000097	TAPON GOMA 80* 50* 6mm.	60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.
15019901	BAST.SN-1-95-(100)	60000083	TORN.EXAG.DIN-931 16* 90 8.8
15019911	BAST.SN-1-85-(100)	60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
15019951	BAST.SN-1-95-(150)	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
15019961	BAST.SN-1-85-(150)	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
15021901	BIELA SN-1-95	60000230	TORN.EXAG.C/LAR.20*200 12.9
15021911	BIELA SN-1-85	60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
15024902	ARAND.D=90/46*4mm.CEM.PORTAC.SN	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15024910	SOP.GIRO PORTACAMBAS SN	95022900	PLACA CONEX.BIELA MODULO S
53000004	ENGRASADOR AC° DIN-71412 8*125	99029955	SOP.ARTIC.CAMBA/RDA.FBN-5A/6



BODY ASSEMBLY FF

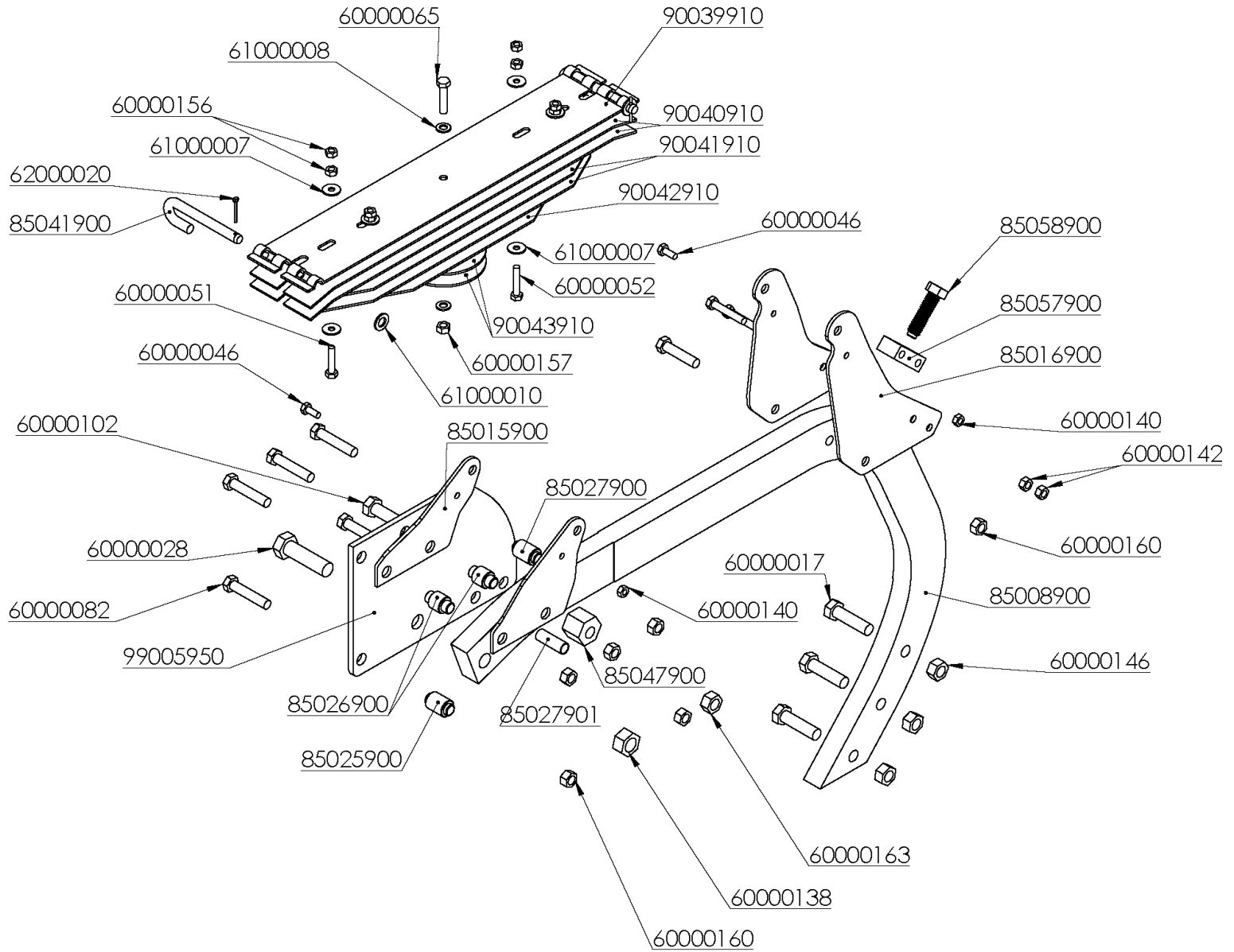


BODY ASSEMBLY FF

REFERENCIA	DESCRIPCIÓN
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9
60000073	TORN.EXAG.DIN-931 14* 70 8.8 ZINC.
60000100	TORN.EXAG.DIN-931 20* 70 8.8
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000159	TUER.EXAG.DIN-934 14 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
60000357	TORN.EXAG.DIN-931 16* 70 8.8
82005960	PLACA PORTA CAMBA FFN (BAST.150)
84007900	CAMBA FRF / FFN
84027900	CASQ.D= 20/30*32/16,5*47mm.SEP.GRAL.FF



BODY ASSEMBLY FB

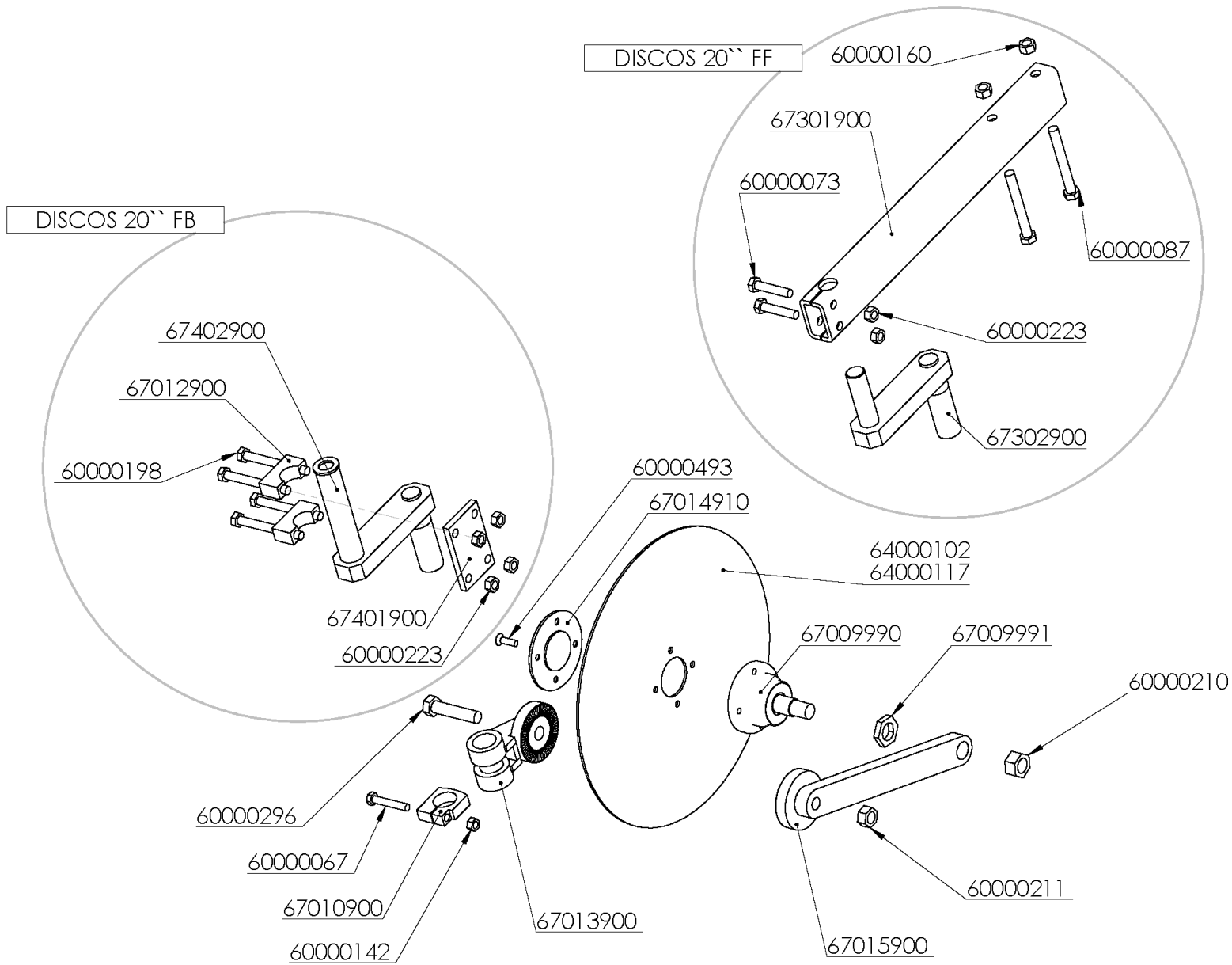


BODY ASSEMBLY FB

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000017	TORN.EXAG.DIN-931 20* 75 8.8	62000020	PASADOR MED.CAÑA DIN-94 4*40 ZINC.
60000028	TORN.EXAG.DIN-931 1"* 90 SAE 8.8	85008900	CAMBA FRBV/FB
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	85014900	PORTABALLESTA CORTA IZQD.
60000051	TORN.EXAG.DIN-931 10* 50 10.9 ZINC.	85015900	PORTABALLESTA CORTA DCH.
60000052	TORN.EXAG.DIN-931 10* 55 10.9 ZINC.	85016900	PORTABALLESTA LARGA IZQD.
60000065	TORN.EXAG.DIN-931 12* 55 10.9 ZINC.	85017900	PORTABALLESTA LARGA DCH.
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	85025900	CASQ.D= 20/30*37/16,5*50mm.SEP.GRAL.FB
60000081	TORN.EXAG.DIN-931 16* 70 8.8 ZINC.	85026900	CASQ.D= 20/30*25/16,5*50mm.SEP.P/BALL.FB
60000082	TORN.EXAG.DIN-931 16* 80 8.8	85027900	CASQ.D= 20/30*38,5/16,5*51,5mm.SEP.SUP.FB
60000102	TORN.EXAG.DIN-931 20* 80 8.8	85027901	SEP.TUBO 20*57mm.
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	85041900	PASADOR CACHABA BALLESTA DACROMET
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	85047900	SEP.HEXAG.REGULAC.FB/SUBSOL.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	85057900	SOP.REGULACION BALLESTA ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	85058900	TORNILLO REGULACION BALLESTA (22*80)
60000156	TUER.EXAG.DIN-934 10 8.8 ZINC.	90039910	BALLESTA MAESTRA VERDE RAL-6029
60000157	TUER.EXAG.DIN-934 12 8.8 ZINC.	90040910	BALLESTA 1er.RFZO.VERDE RAL-6029
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	90041910	BALLESTA 2° RFZO.VERDE RAL-6029
60000163	TUER.EXAG.DIN-934 20 8.8	90042910	BALLESTA 3er.RFZO.VERDE RAL-6029
61000007	ARAND.DIN-9021 10 ZINC.	90043910	BALLESTA BOTON VERDE RAL-6029
61000008	ARAND.DIN-125 12 ZINC.	99005950	PLACA PORTACAMBA FBN
61000010	ARAND.DIN-125 16 ZINC.		



DISCS 20" FB-FF

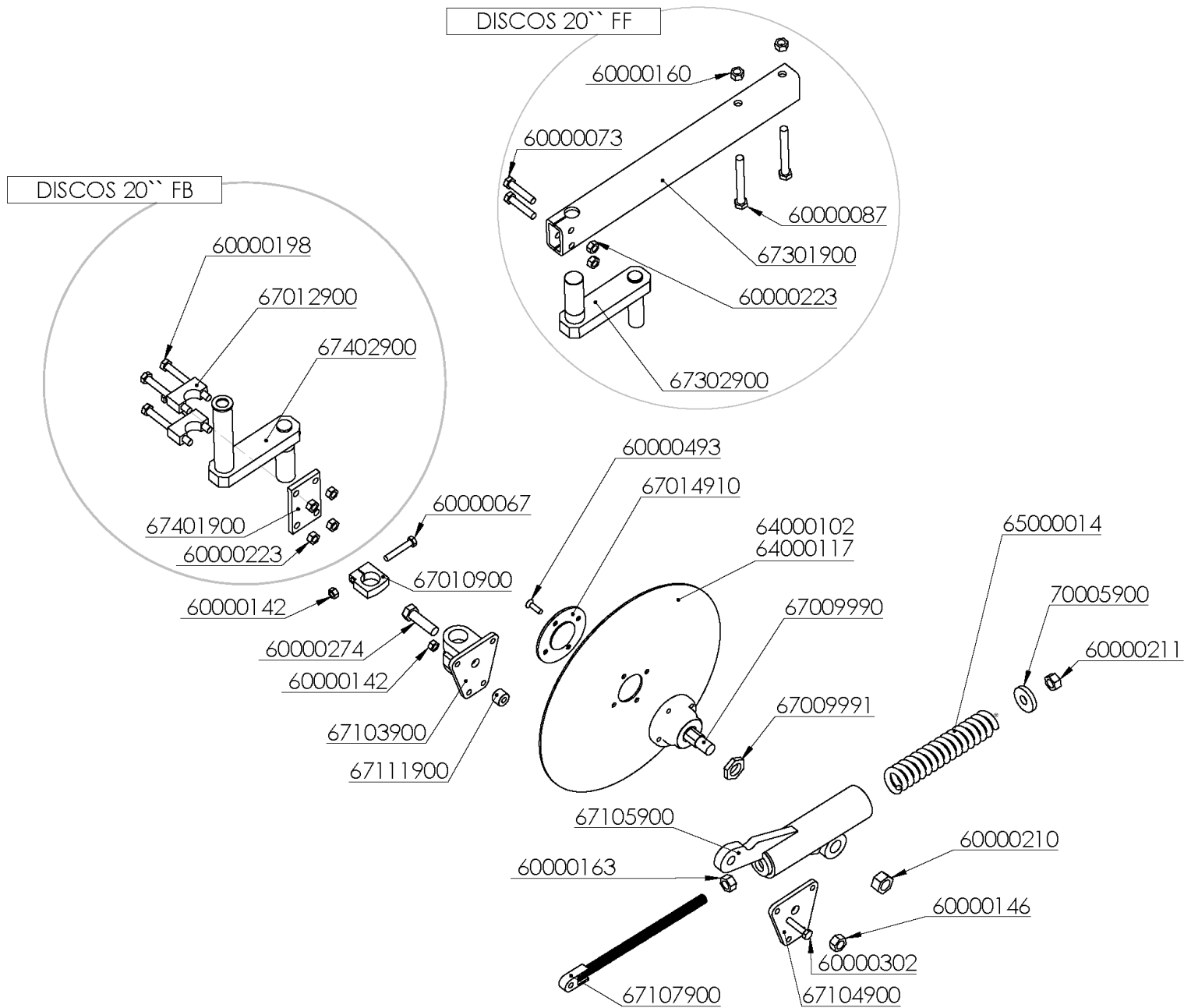


DISCS 20" FB-FF

REFERENCIA	DESCRIPCIÓN
53000004	ENGRASADOR AC° DIN-71412 8*125
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.
60000073	TORN.EXAG.DIN-931 14* 70 8.8 ZINC.
60000087	TORN.EXAG.DIN-931 16*130 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
60000198	TORN.EXAG.DIN-931 14*130 8.8 ZINC.
60000210	TUER.AUTO.DIN-985 1" SAE 8.8
60000211	TUER.AUTO.DIN-985 20 8.8
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
60000296	TORN.EXAG.DIN-931 20* 90 8.8 ZINC.
60000493	TORN.ALLEN DIN-7991 10* 25 10.9 ZINC.
64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68
64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
67009991	ARANDELA FRENO BUJE DISCOS
67010900	ABRAZ.REGULACION
67012900	ABRAZ.PRISION ZINC.
67013900	SOP.GIRO DISCOS 20"
67014910	TAPA DISCOS (D/16)
67015900	BRAZO DISCOS 20"
67301900	BRAZO SOP.DISCOS 670mm.
67302900	SEMI-MANIVELA CORTA
67401900	SOP.DISCOS FRBV/FB
67402900	MANIVELA DISCO FRBV/FB



DISCS NON STOP FB-FF

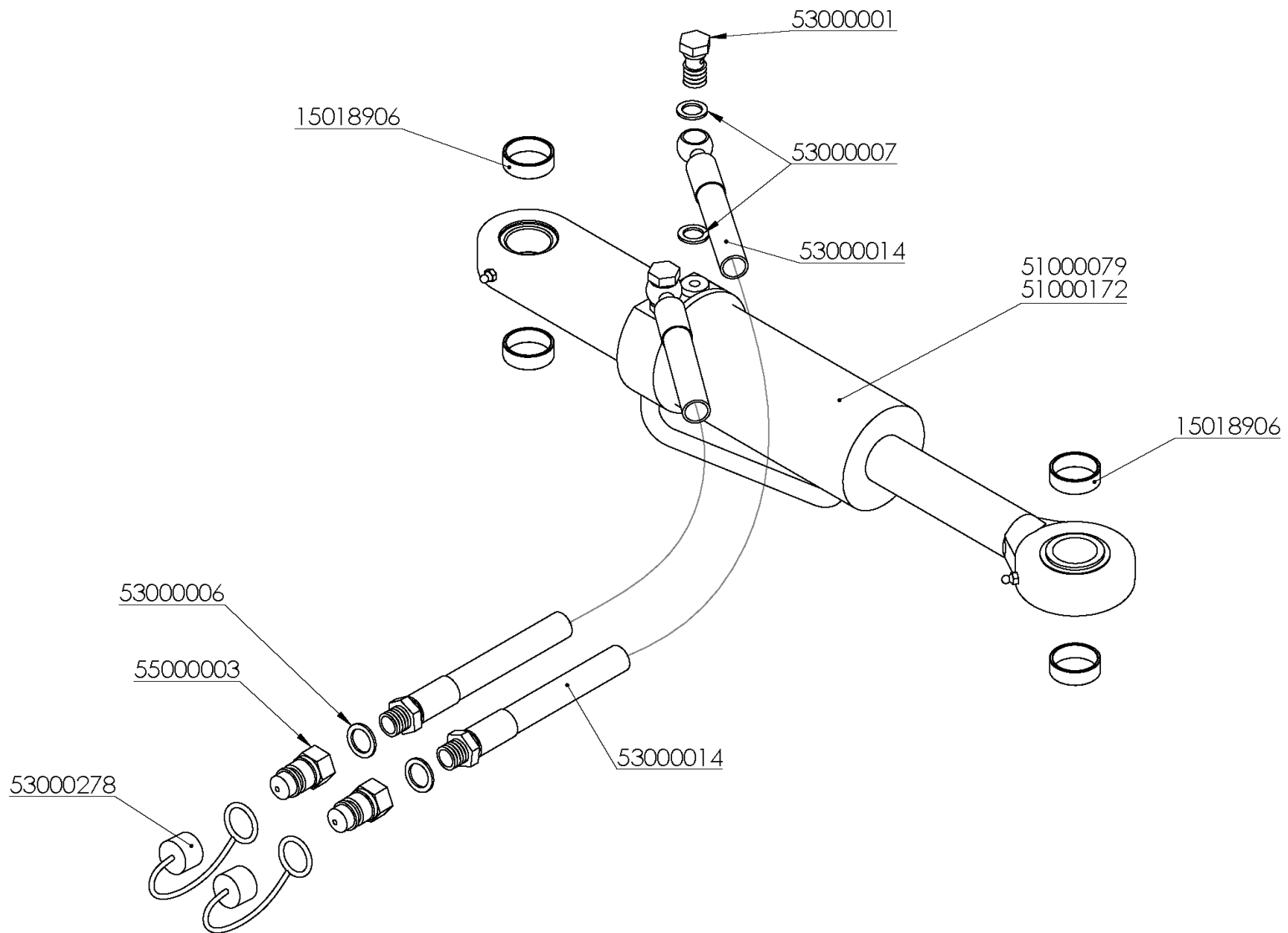


DISCS NON STOP FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000004	ENGRASADOR AC° DIN-71412 8*125	64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68
60000003	TORN.ALLEN DIN-7991 10* 40 10.9 ZINC.	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	65000014	MUELLE COMPR.CILIN.275*57*12 LUZ-5
60000073	TORN.EXAG.DIN-931 14* 70 8.8 ZINC.	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000087	TORN.EXAG.DIN-931 16*130 8.8 ZINC.	67009991	ARANDELA FRENO BUJE DISCOS
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	67010900	ABRAZ.REGULACION
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	67014910	TAPA DISCOS (D/16)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	67103900	GIRO DISCOS NON-STOP
60000163	TUER.EXAG.DIN-934 20 8.8	67104900	PLACA SOP.GIRO DISCOS NON-STOP
60000198	TORN.EXAG.DIN-931 14*130 8.8 ZINC.	67105900	BRAZO DISCOS NON-STOP
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	67107900	CORREDERA MUELLE DISCOS NON-STOP
60000211	TUER.AUTO.DIN-985 20 8.8	67111900	CASQ.D= 30/12,5*21mm.SEP.SOP.DISCOS NON-STOP
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67301900	BRAZO SOP.DISCOS 670mm.
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	67302900	SEMI-MANIVELA CORTA
60000302	TORN.EXAG.DIN-931 12* 55 8.8	67401900	SOP.DISCOS FRBV/FB
60000493	TORN.ALLEN DIN-7991 10* 25 10.9 ZINC.	67402900	MANIVELA DISCO FRBV/FB
63000031	ANILLO ELASTICO DIN-472 62	70005900	ARAND.RFZO.D= 58*21 E-10mm.



OPENING SYSTEM FB

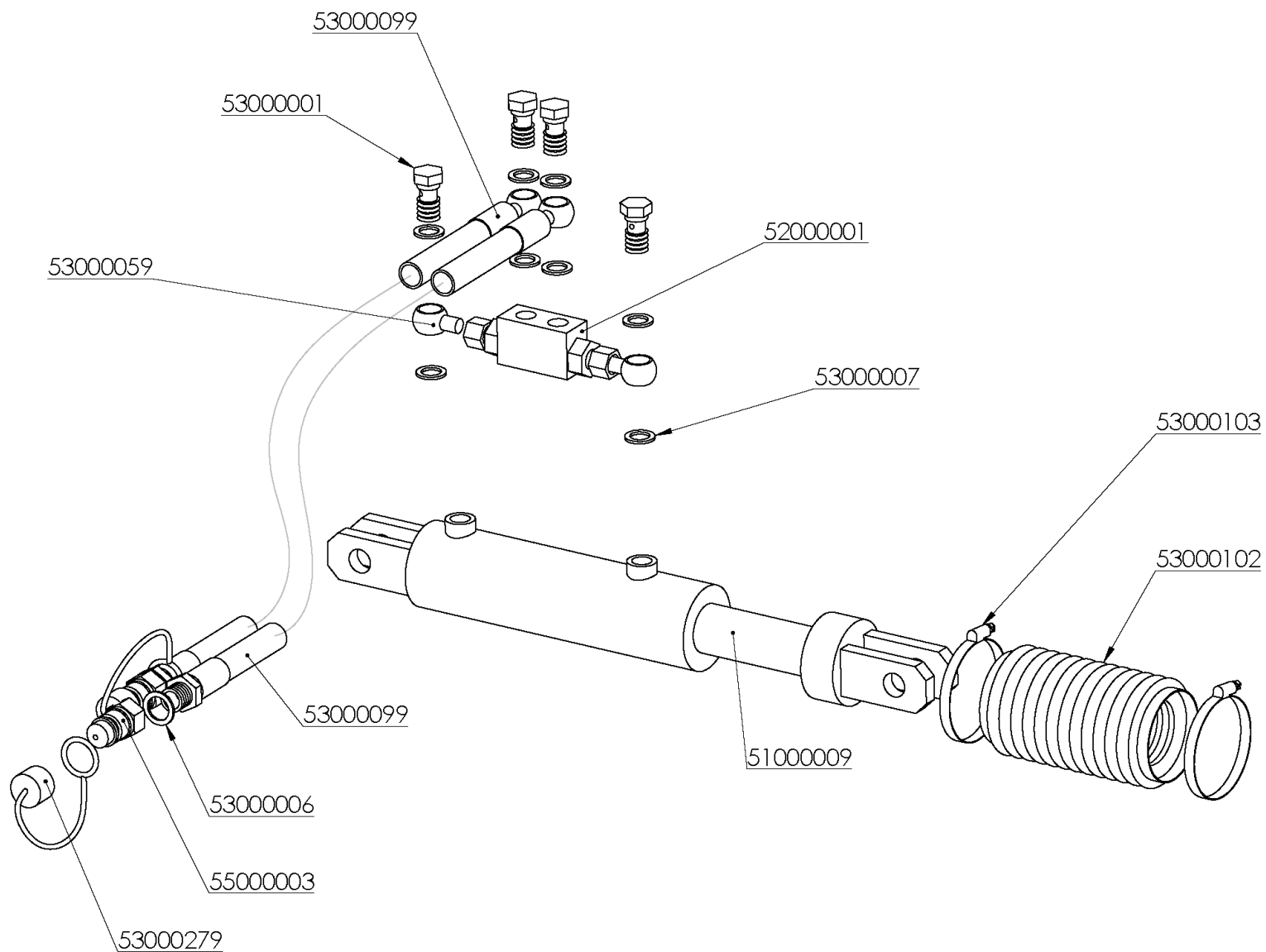


OPENING SYSTEM FB

REFERENCIA	DESCRIPCIÓN
51000079	CILIND.APERT. 40/ 80/100 VALV.BLOQ.
51000172	CILIND.APERT. 42/100/190 VALV.BLOQ.
53000006	JUNTA METAL/GOMA 1/2" 11603
53000007	JUNTA METAL/GOMA 3/8" 11602
53000014	LATIG.R2-3/8*1800mm.MF-1/2/OR-3/8
53000278	PROTECTOR E.R.MACHO 1/2" AMARILLO 5029-4PY
55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
15018906	CASQ. D=45/35*8 SEP.APERT.CICRO



1ST BODY HYDRAULIC ADJUSTMENT FB

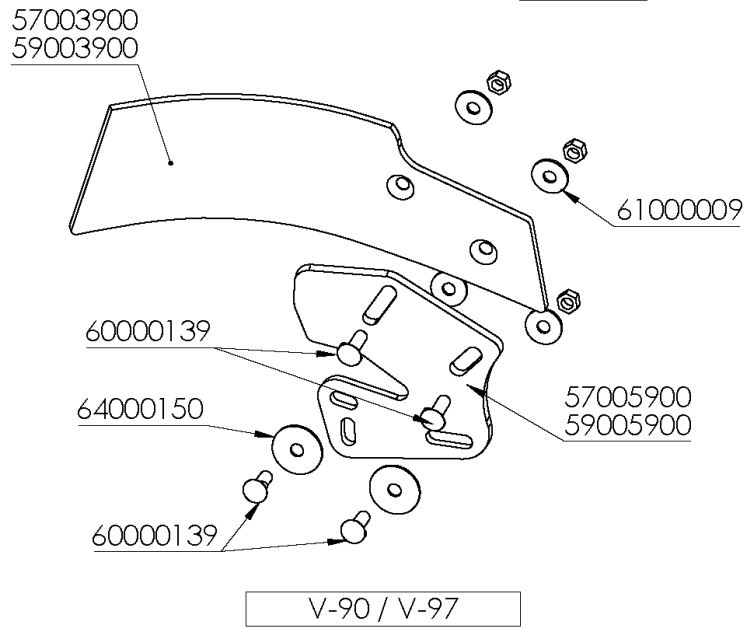
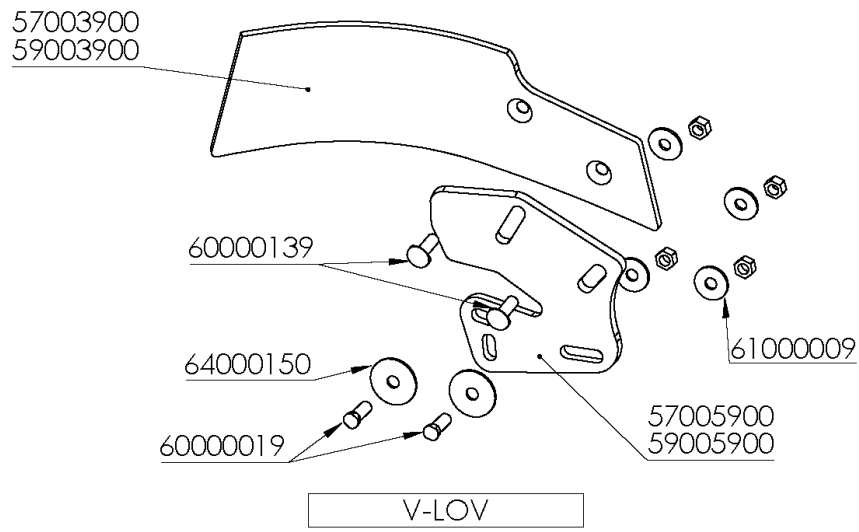
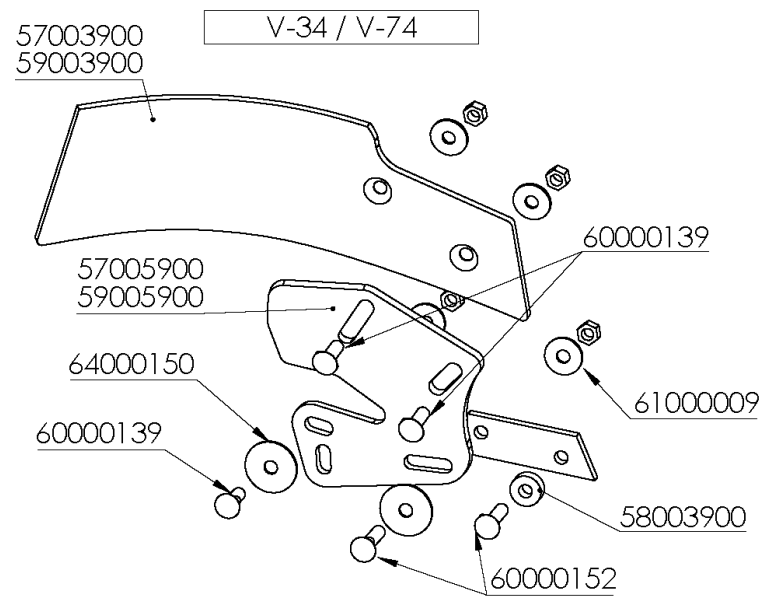
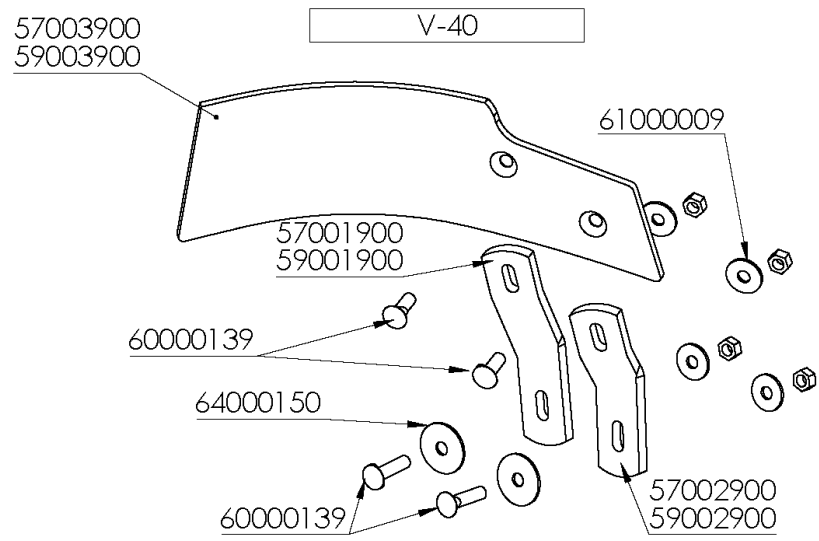


1ST BODY HYDRAULIC ADJUSTMENT FB

REFERENCIA	DESCRIPCIÓN
51000009	CILIND.DESPL.C/HORQ.60/30/120
52000001	VALV.BLOQUEO ZINC.12 VBD38
53000001	TORNILLO SIMPLE 3/8 4022
53000006	JUNTA METAL/GOMA 1/2" 11603
53000007	JUNTA METAL/GOMA 3/8" 11602
53000059	ESFERICO 3/8" TUBO 12mm.CORTO 4002E
53000081	SUPLEMENTO 3/8" 4092
53000099	LATIG.R2-3/8*1500mm.MF-1/2/OR-3/8
53000102	FUELLE PROTECCION D=70mm.
53000103	ABRAZ.SIN/FIN D=60/80
53000279	PROTECTOR E.R.MACHO 1/2" VERDE 5029-4PG
55000003	ADAPTADOR E.R.FASTER 1/2" 30410108



TRASHBOARDS FB-FF

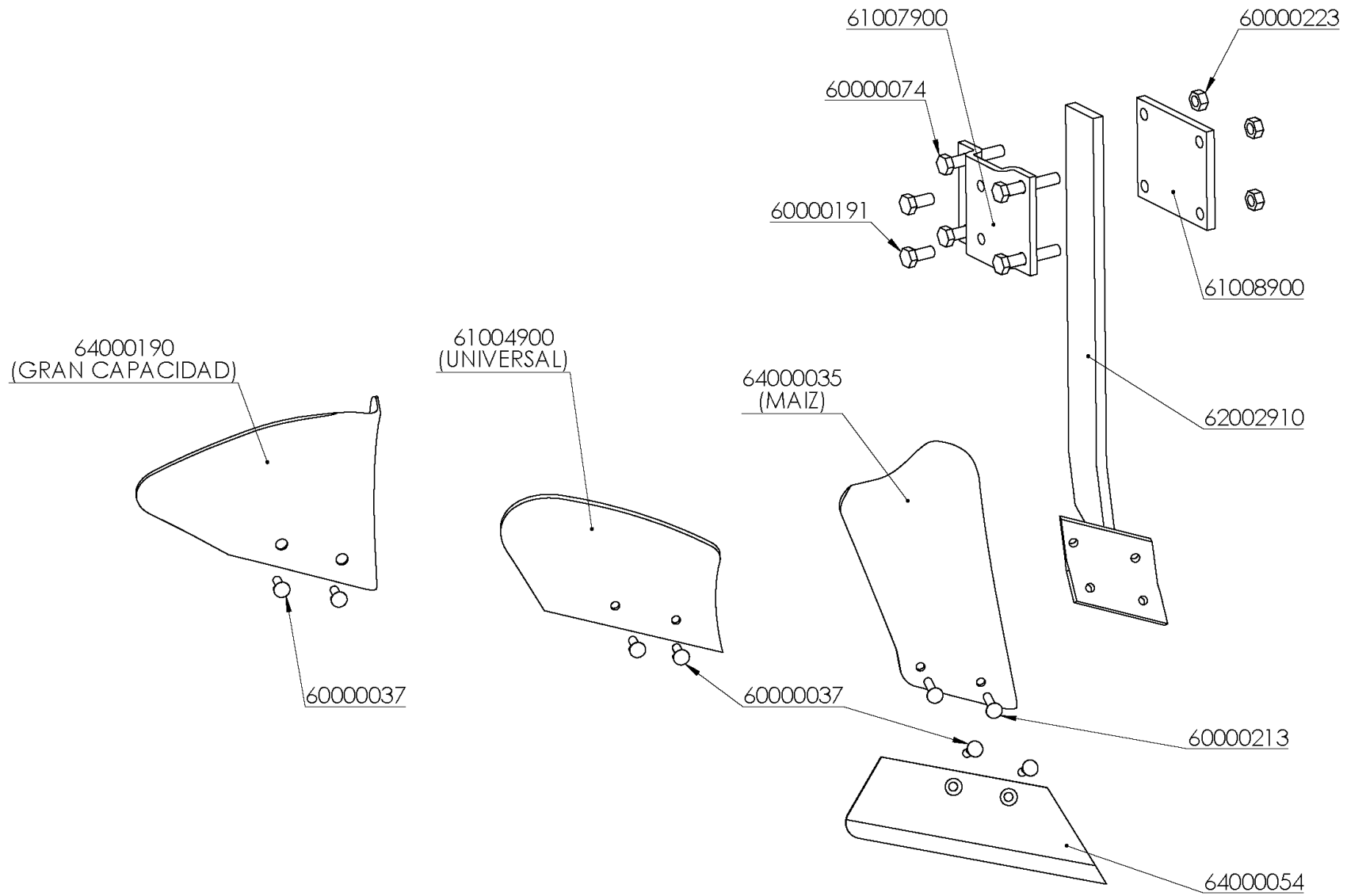


TRASHBOARDS FB-FF

REFERENCIA	DESCRIPCIÓN
57001900	SOP.POST.DCH.C.R.1840/V-LK
57002900	SOP.ANTER.DCH.C.R.1840/POST.DCH.1701
57003900	DEFLECTOR BORO 1856-D-CAV
57005900	SOPORTE C.R. DCH.(1797-1834-VLAM)
58003900	CASQ.D= 30/13*12mm.SEP.SOP.C.R.1834 ZINC.
59001900	SOP.POST.IZQD.C.R.1840/V-LK
59002900	SOP.ANTER.IZQD.C.R.1840/POST.IZQD.1701
59003900	DEFLECTOR BORO 1856-I-CAV
59005900	SOPORTE C.R. IZQ.(1797-1834-VLAM)
60000019	TORN.ARADO C/OV/934 12*36 12.9
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.
60000152	TORN.ARADO 2TET/934 12*45 8.8 ZINC.
61000009	ARAND.DIN-9021 12 ZINC.
64000150	ARAND.GOMA ADHESIVA M-12



SKIMMERS FB

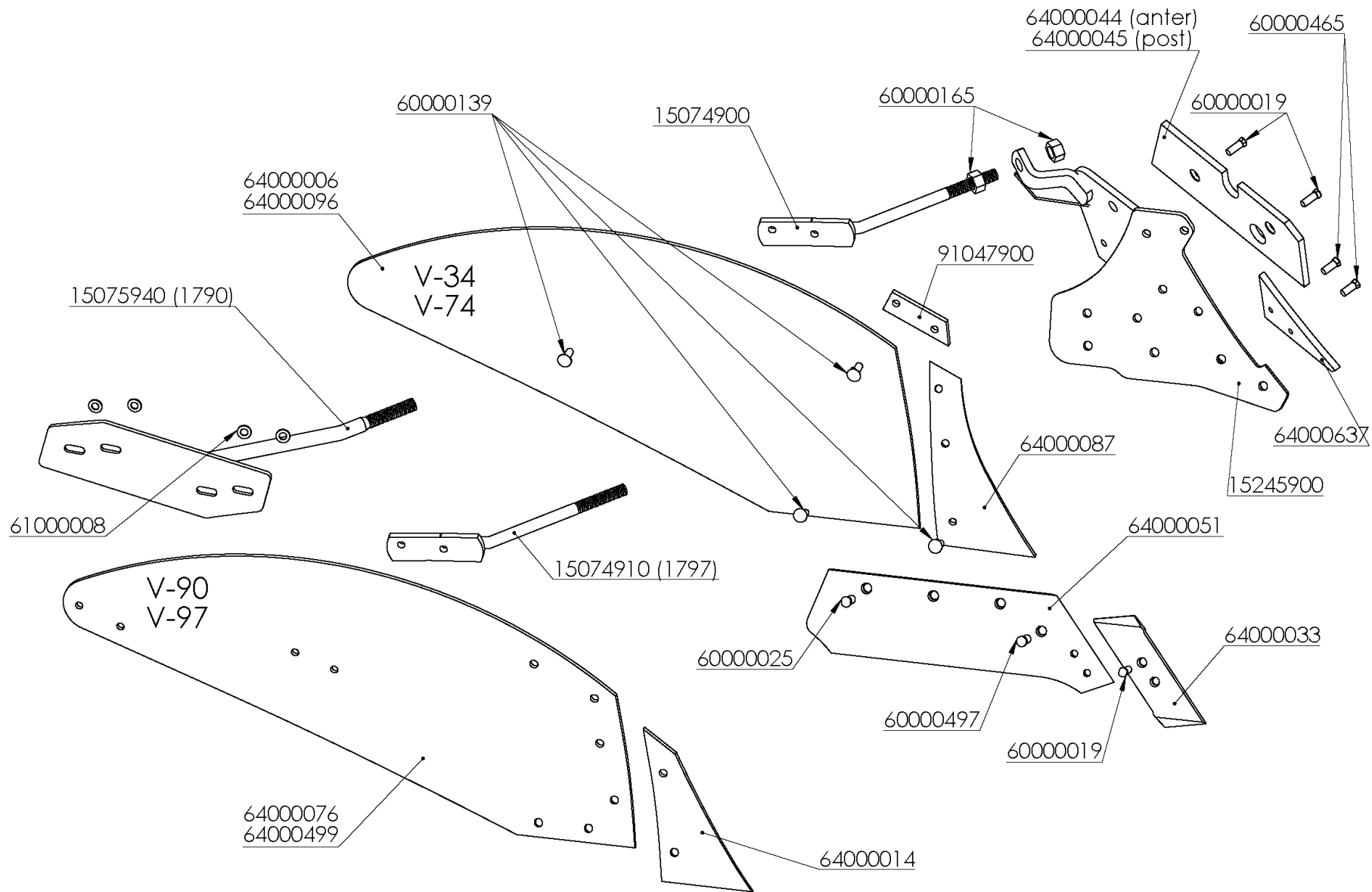


SKIMMERS FB

REFERENCIA	DESCRIPCIÓN
60000037	TORN.ARADO 2TET/934 10*35 10.9 ZINC.
60000074	TORN.EXAG.DIN-931 14* 80 8.8 ZINC.
60000191	TORN.EXAG.DIN-933 14* 30 8.8 ZINC.
60000213	TORN.ARADO 2TET/934 10*45 10.9 ZINC.
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
61004900	RASETA UNIV.1855-D-CAV
61007900	SOP.EXT.RASETAS FB
61008900	SOP.INT.RASETAS FB
62002910	BRAZO RASETA FB
64000035	RASETA MAIZ 1820-D-CA1V BORO
64000054	REJA RASETA 1394-D-CAV
64000190	RASETA 1705-D-CAV BORO



BODIES V-97 V-34 V-90 V-74 FB-FF

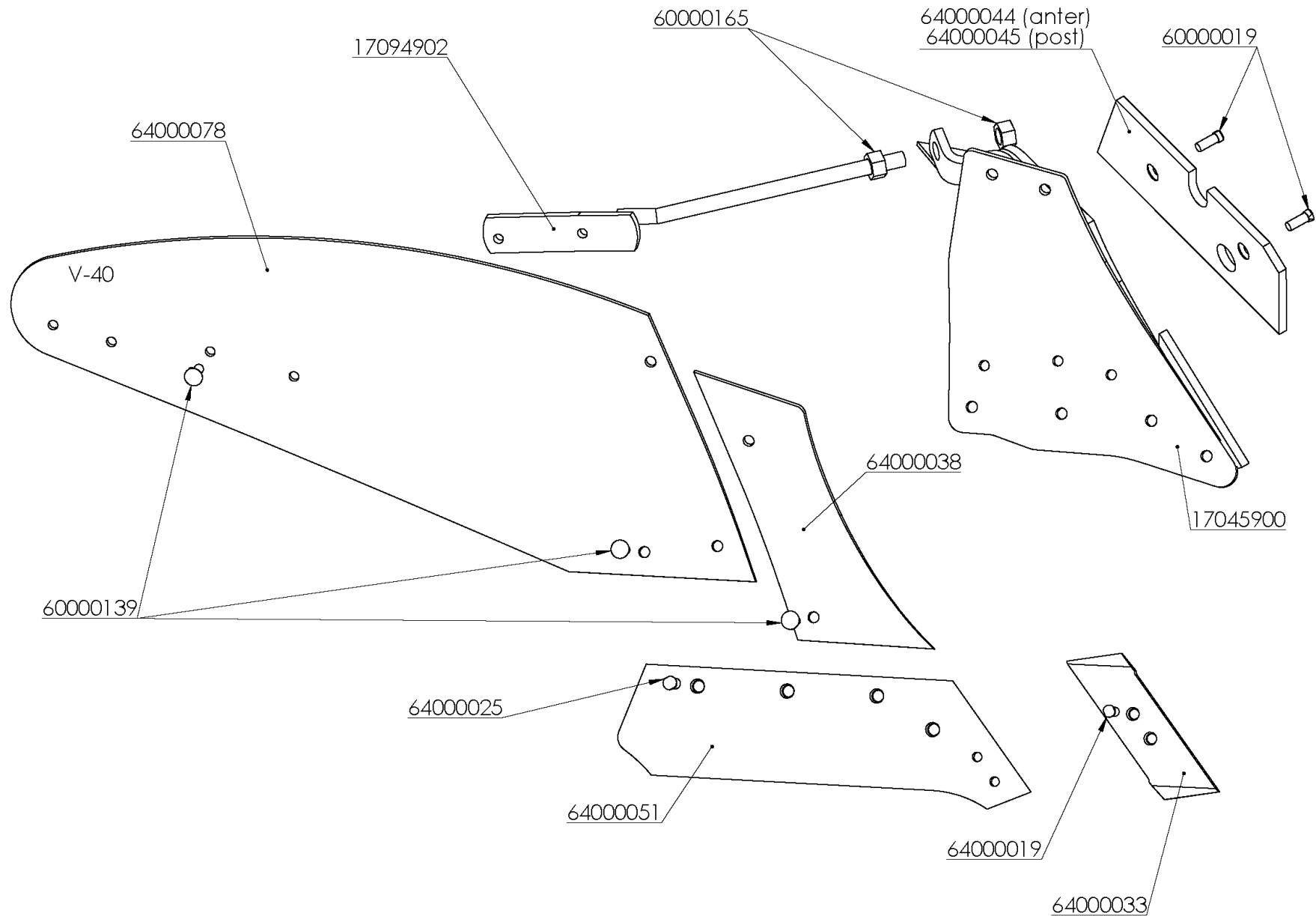


BODIES V-97 V-34 V-90 V-74 FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15045900	PORTA-REJAS DCH. V-97/ V-34 (D/04)	64000014	COMPLEMENTO BORO 1798-D-CAV
15074900	TENSOR V-34 CORTO DCH.(D/04)	64000033	PUNTA REJA 1365-D 65x12mm.
15074910	TENSOR V-97 CORTO DCH.(D/04)	64000044	COSTANERA CORTA 2338-CAV-BAR
15074920	TENSOR V-90 CORTO DCH.	64000045	COSTANERA LARGA 2339-CAV-BAR
15074930	TENSOR V-90 LARGO DCH.	64000051	REJA 1434-17-D-CAV
15075940	TENSOR 1790 DCH. (D/18)	64000076	VERTEDERA CEMENT. V-97-D-CAV
60000019	TORN.ARADO C/OV/934 12*36 12.9	64000087	COMPLEMENTO BORO 1849-D-CA
60000025	TORN.ARADO C/OV/934 14*35 12.9	64000096	VERTEDERA BORO V-74-D-CAV
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.	64000499	VERTEDERA CEMENT. V-90-D-CAV (KV-28)
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000608	VERTEDERA BORO 1790-D-CAV (KV-28)
61000008	ARAND.DIN-125 12 ZINC.	85076910	SOP.TENSOR LARGO V-90
64000006	VERTEDERA CEMENT. V-34-D-CAV	91047900	PLETINA UNION VERT./COMPL. V-34



BODIES V-40 FB-FF

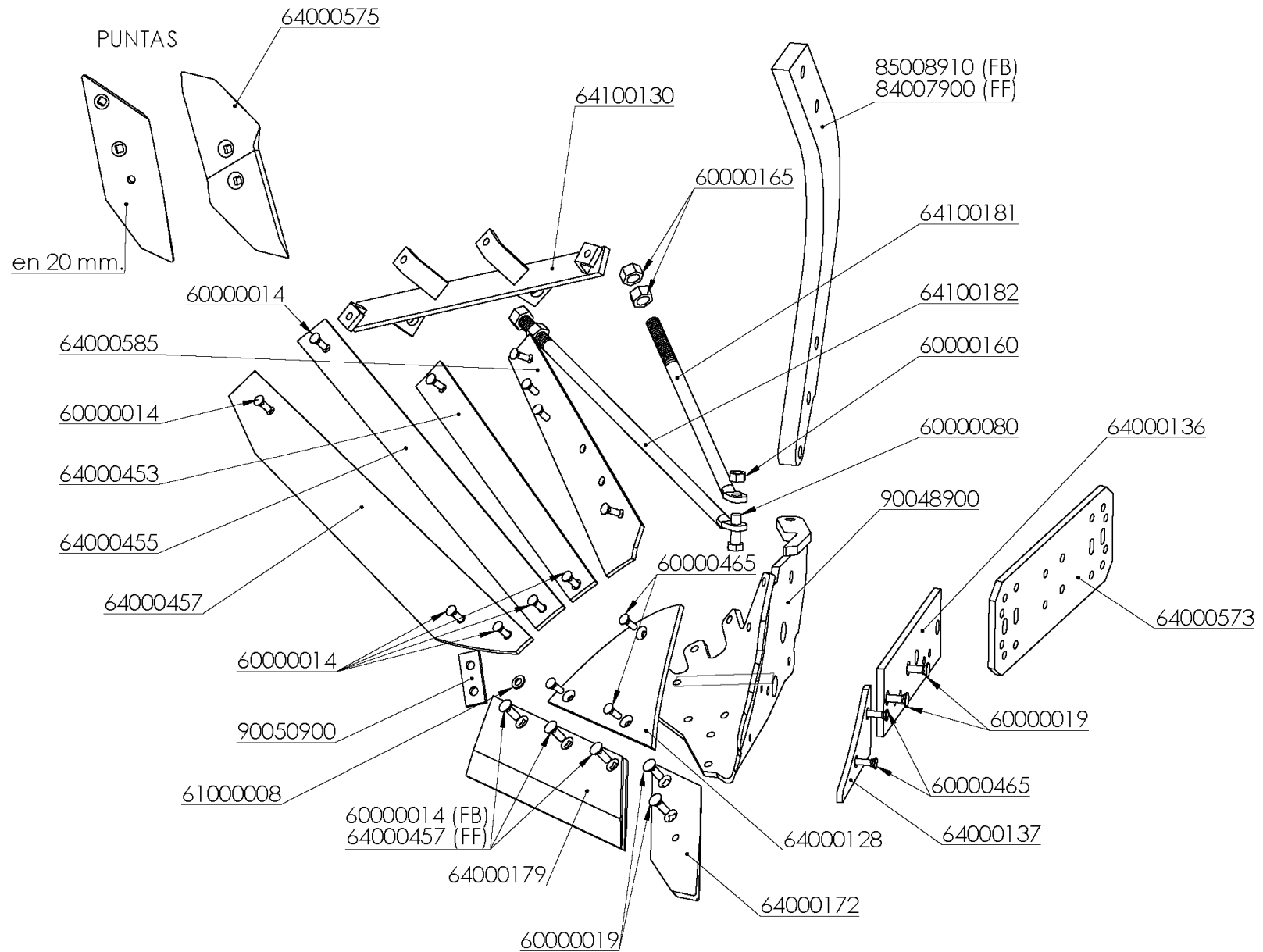


BODIES V-40 FB-FF

REFERENCIA	DESCRIPCIÓN
17045900	PORTA-REJAS DCH. V-40 (D/04)
17094902	TENSOR V-40 CORTO DCH.(D/04)
60000019	TORN.ARADO C/OV/934 12*36 12.9
64000078	VERTEDERA CEMENT. V-40-D-CAV
60000025	TORN.ARADO C/OV/934 14*35 12.9
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.
64000033	PUNTA REJA 1365-D 65x12mm.
64000038	COMPLEMENTO BORO 1839-D-CAV
64000044	COSTANERA CORTA 2338-CAV-BAR
64000045	COSTANERA LARGA 2339-CAV-BAR
64000051	REJA V-34-17-D-CAV



SLATTED BODY OV FB-FF

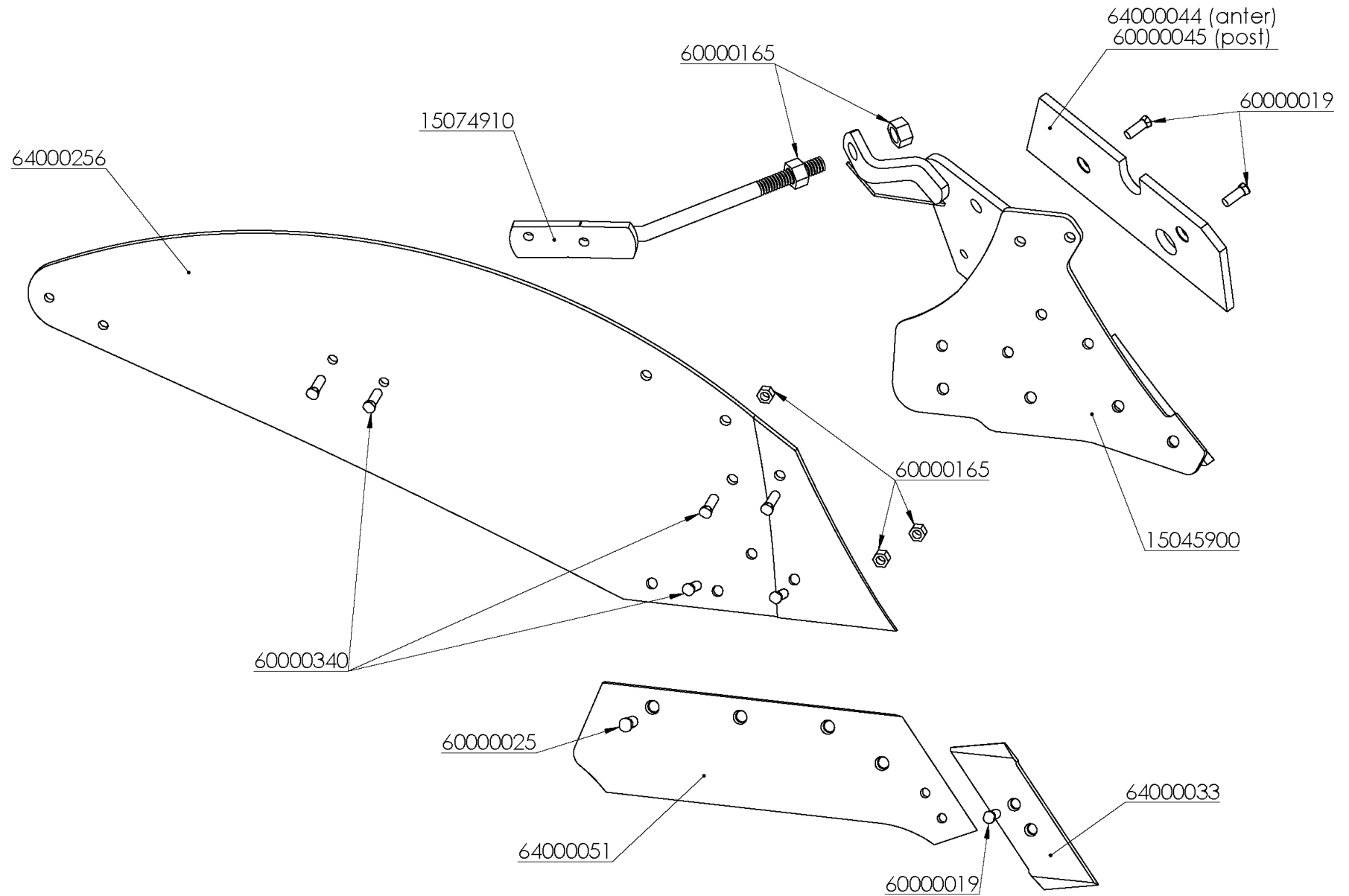


SLATTED BODY OV FB-FF

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000014	TORN.ARADO C/OV/934 12*33 12.9	64000183	CORTANTE D-LK 3492890
60000019	TORN.ARADO C/OV/934 12*36 12.9	64000453	LAMINA 2-D (D/09-11)
60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.	64000455	LAMINA 3-D (D/09-11)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	64000457	LAMINA 4-D (D/09-11)
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000573	COSTANERA XL D/I LOV
60000227	TORN.ALLEN DIN-7991 20* 60 12.9	64000575	PUNTA REJA D LOV REVERS.
60000381	TORN.ARADO DIN-608/934 10*40 8.8	64000585	LAMINA 1-D-XL REVERS.
60000465	TORN.ARADO C/OV/934 10*33 12.9	64100130	SOP.TENSOR D LOV RFZD.
61000008	ARAND.DIN-125 12 ZINC.	64100181	SENSOR CORTO RFZD.LOV
64000128	COMPLEMENTO D LOV	64100182	SENSOR LARGO RFZD.LOV
64000136	COSTANERA D/I LOV	84007900	CAMBA FRF / FFN
64000137	PUNTA COSTAN.D LOV	85008910	CAMBA FRBV/FB P/CUERPO LAM.
64000172	PUNTA REJA D LOV 15mm.	90048900	PORTA-REJAS DCH.LOV
64000179	REJA 20"D LOV	90050900	PLETINA UNION VERT-REJA LOV



PLASTIC MOULDBOARD BODIES FB-FF



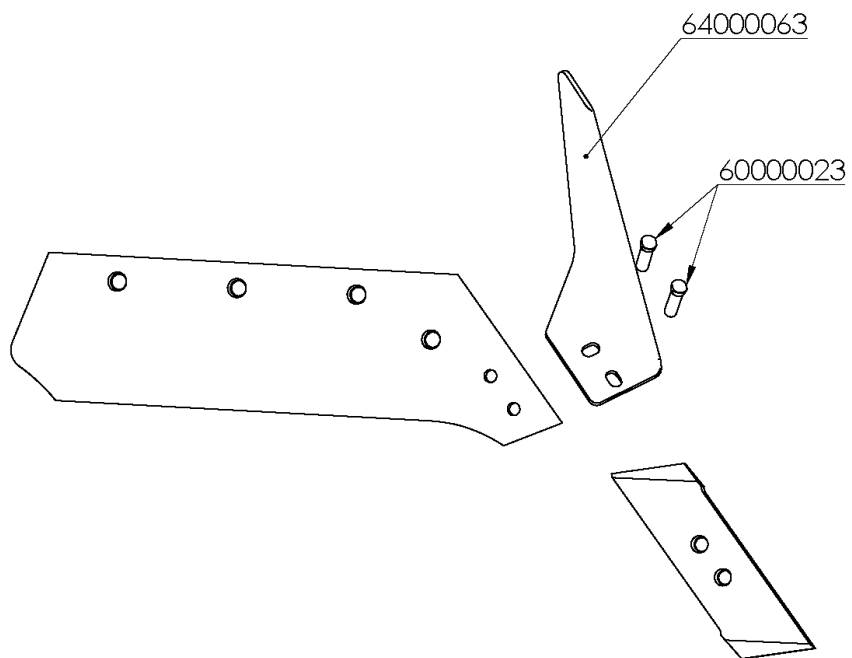
PLASTIC MOULDBOARD BODIES FB-FF

REFERENCIA	DESCRIPCIÓN
64000044	COSTANERA CORTA 2338-CAV-BAR
64000045	COSTANERA LARGA 2339-CAV-BAR
60000019	TORN.ARADO C/OV/934 12*36 12.9
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.
15045900	PORTA-REJAS DCH.1797/1834 (D/04)
15074910	TENSOR 1797 CORTO DCH.(D/04)
64000256	VERTEDERA PLASTIC.D A73286M (1797)
60000340	TORN.ARADO DIN-603 12*40 8.8 ZINC.
60000025	TORN.ARADO C/OV/934 14*35 12.9
60000019	TORN.ARADO C/OV/934 12*36 12.9
64000033	PUNTA REJA 1365-D 65x12mm.
64000051	REJA 1434-17-D-CAV

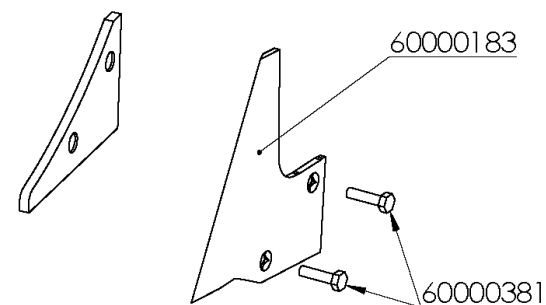


SHARE KNIFE SUPPLEMENT FB-FF

CORTANTE DE REJA
V-40/V-97/V34/V90/V74 y V-PLÁSTICO



CORTANTE DE REJA
VERTEDERA DE LÁMINAS

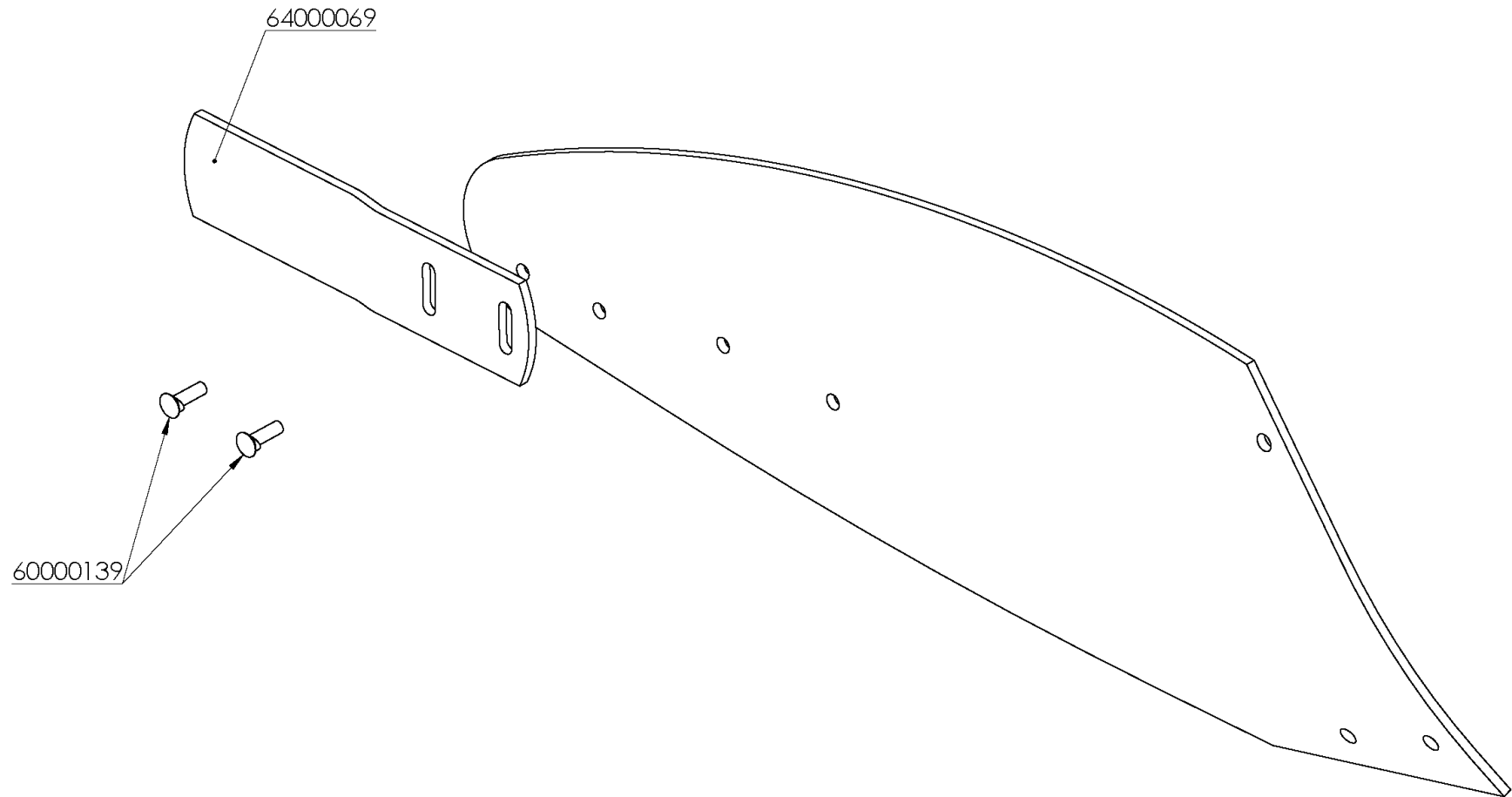


SHARE KNIVE SUPPLEMENT FB-FF

REFERENCIA	DESCRIPCIÓN
60000183	TORN.EXAG.DIN-931 14* 90 8.8 ZINC.
60000381	TORN.ARADO DIN-608/934 10*40 8.8
64000063	CORTANTE 1464-D
60000023	TORN.ARADO C/OV/934 12*42 12.9



MOULBOARD TAIL SUPPLEMENT FB-FF

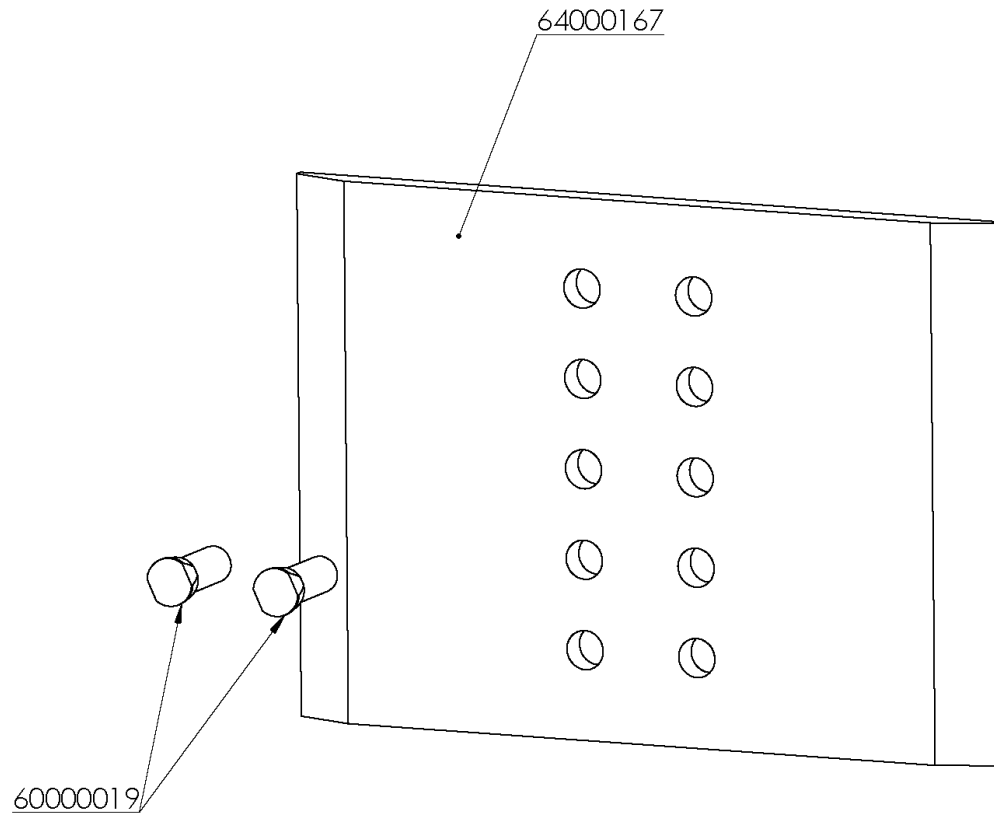


MOULBOARD TAIL SUPPLEMENT FB-FF

REFERENCIA	DESCRIPCIÓN
64000069	COLA VERTEDERA 1829-D
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.



LANDSLIDE EXTENSION FB-FF

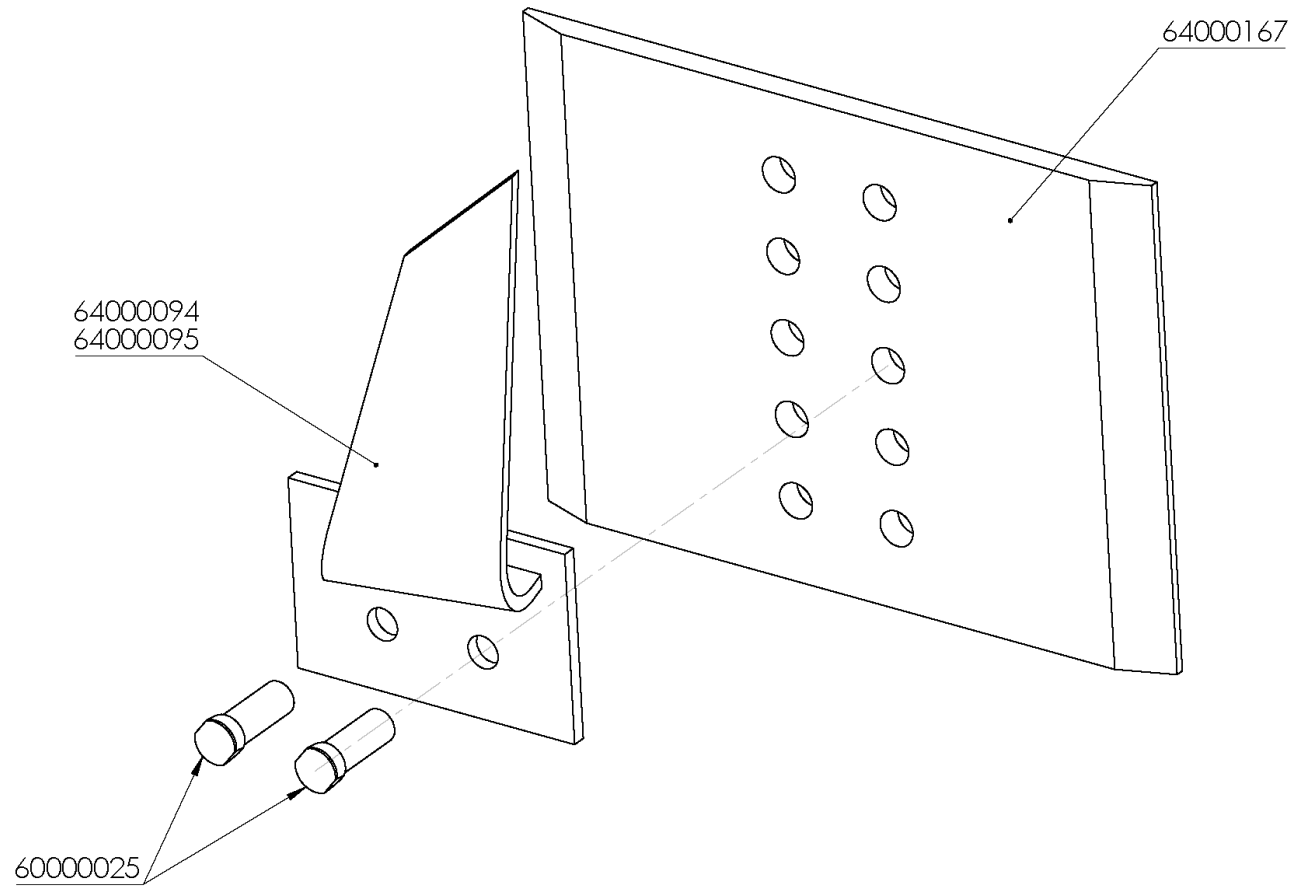


LANDSLIDE EXTENSION FB-FF

REFERENCIA	DESCRIPCIÓN
64000167	TALONERA 2357
60000019	TORN.ARADO C/OV/934 12*36 12.9



FURROW WIDENER SUPPLEMENT FB-FF

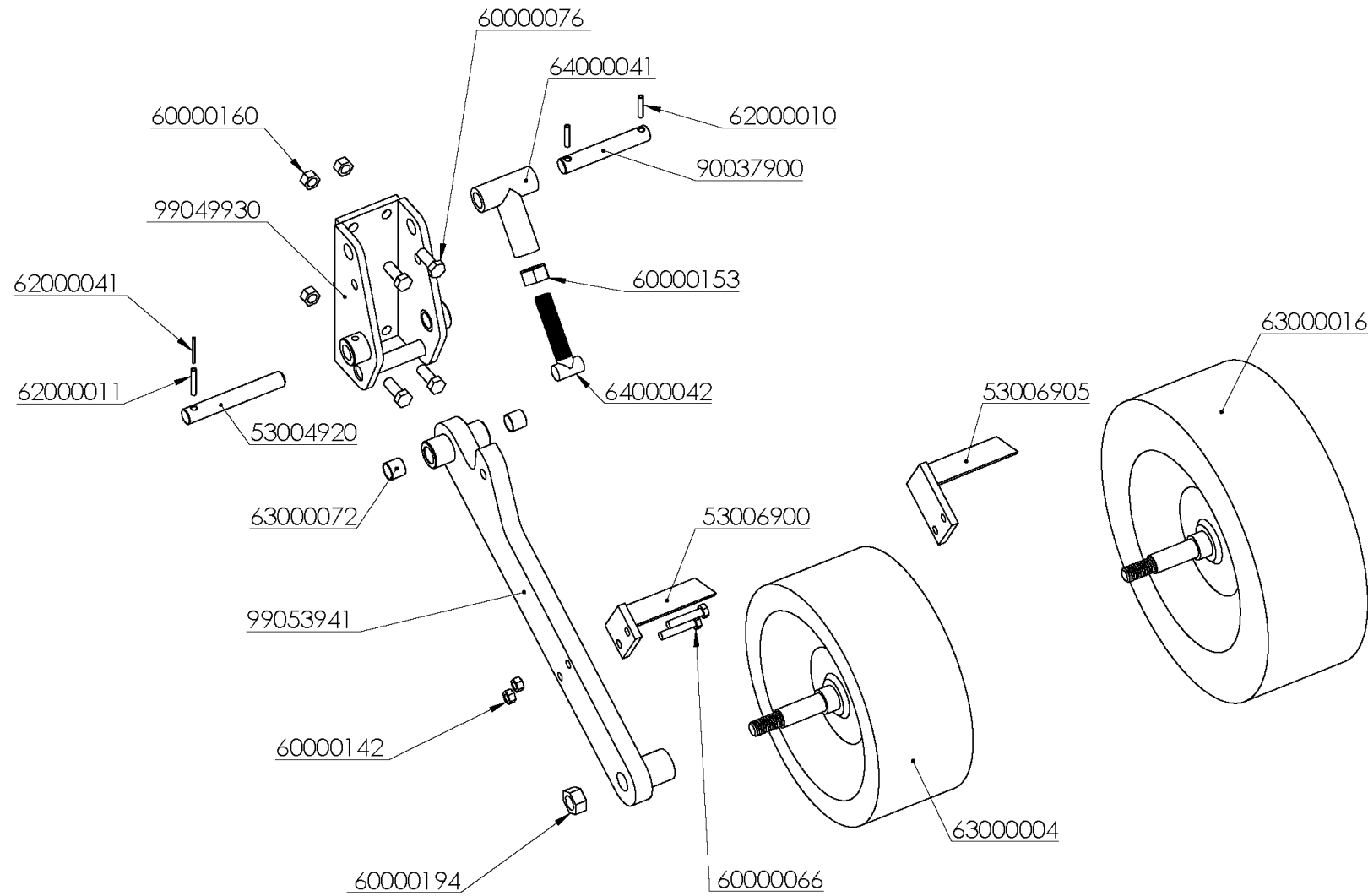


FURROW WIDENER SUPPLEMENT FB-FF

REFERENCIA	DESCRIPCIÓN
64000094	AMPLIADOR SURCO 1459-D
64000095	AMPLIADOR SURCO 1459-I
64000167	TALONERA 2357
60000025	TORN.ARADO C/OV/934 14*35 12.9



METALLIC WHEEL FB-FF

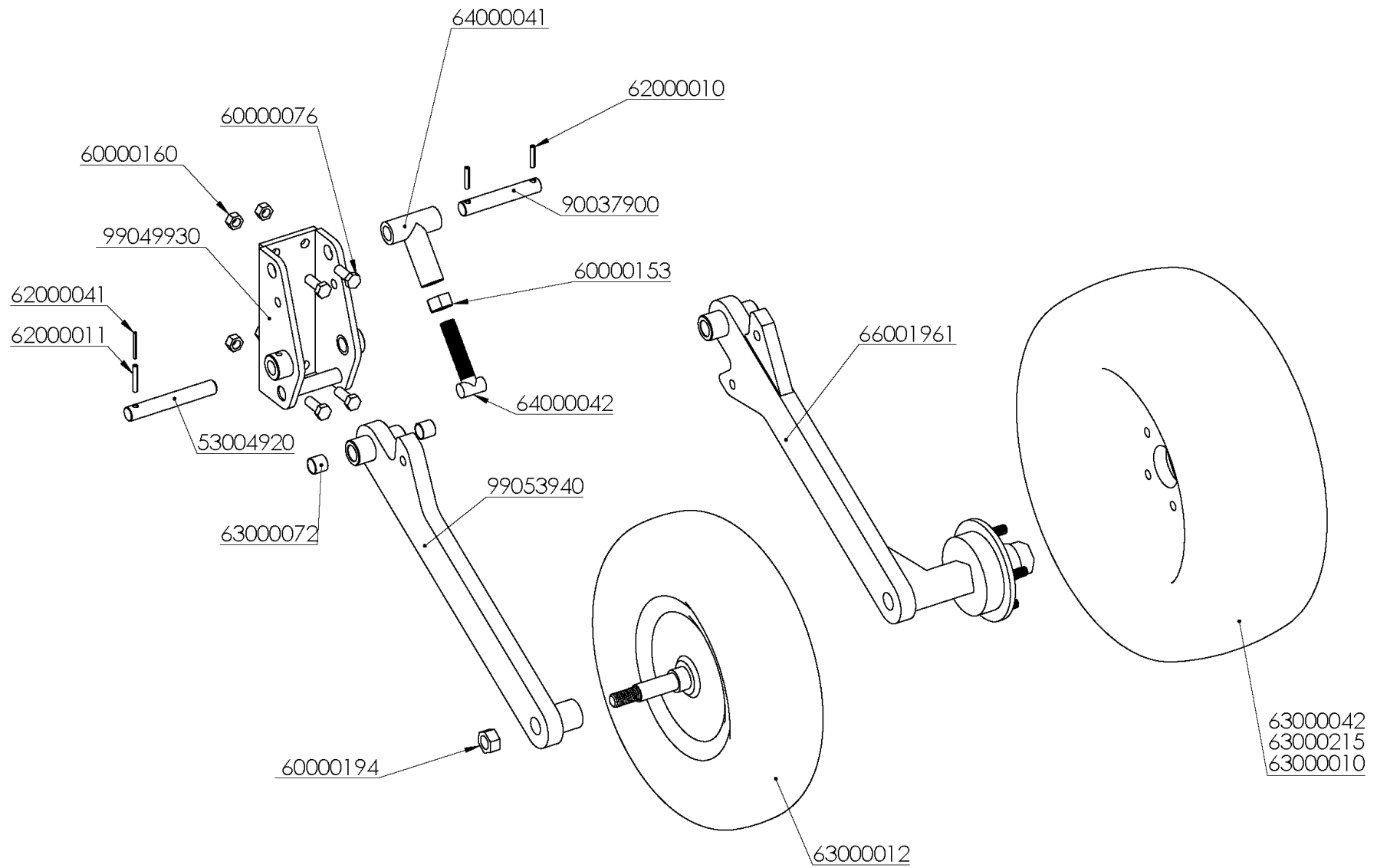


METALLIC WHEEL FB-FF

REFERENCIA	DESCRIPCIÓN
53004920	BULON D=25*175mm.BRAZO RDA.(D/03)
53006900	CUCHILLA RDA.
53006905	CUCHILLA RDA.(5)
60000066	TORN.EXAG.DIN-931 12* 60 8.8 ZINC.
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000153	TUER.EXAG.DIN-934 1"SAE 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
60000194	TUER.AUTO.DIN-985 24/200 8.8
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
62000041	PASADOR ELAST.DIN-1481 5* 50
63000004	R.M.C/EJE 400*170*3 RAL-3001
63000016	R.M.C/EJE 500*180*3 RAL-3001
63000072	CASQ.FRICCION PAP 2525 P10
64000041	SOP.TOPE MOVIL ZINC.
64000042	TOPE MOVIL TRATADO + ZINC.
90037900	BULON D=25*154mm.TOPE RDA.
99049930	SOP.RDA.FB (D/04)
99053941	BRAZO RDA.MET.FB/FF (D/04)



PNEUMATIC WHEEL FB-FF

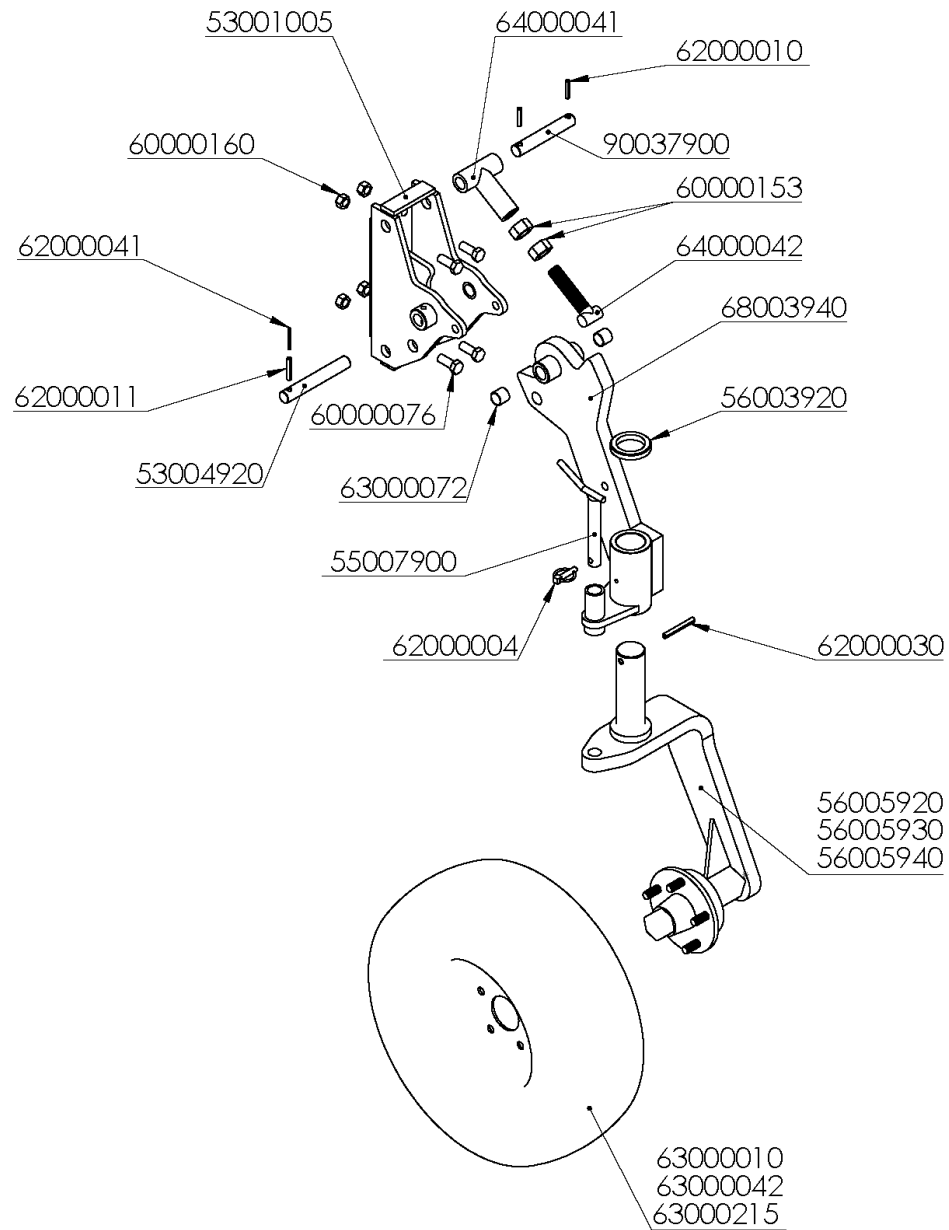


PNEUMATIC WHEEL FB-FF

REFERENCIA	DESCRIPCIÓN
53004920	BULON D=25*175mm.BRAZO RDA.(D/03)
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
60000153	TUER.EXAG.DIN-934 1"SAE 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
60000194	TUER.AUTO.DIN-985 24/200 8.8
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
62000041	PASADOR ELAST.DIN-1481 5* 50
63000010	R.N.C/ATAQUE 200/60*14,5"-10PR RAL-6029
63000012	R.N.C/EJE 6.00*9"-10PR V50 RAL-6029
63000042	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-6029
63000072	CASQ.FRICCION PAP 2525 P10
63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
64000041	SOP.TOPE MOVIL ZINC.
64000042	TOPE MOVIL TRATADO + ZINC.
66001961	BRAZO RDA.NEUM.(6) FB (D/04)(685*260)
90037900	BULON D=25*154mm.TOPE RDA.
99049930	SOP.RDA.FB (D/04)
99053940	BRAZO RDA.NEUM.FB/FF (D/04)



CONTROL & TRANSPORT WHEEL FB-FF

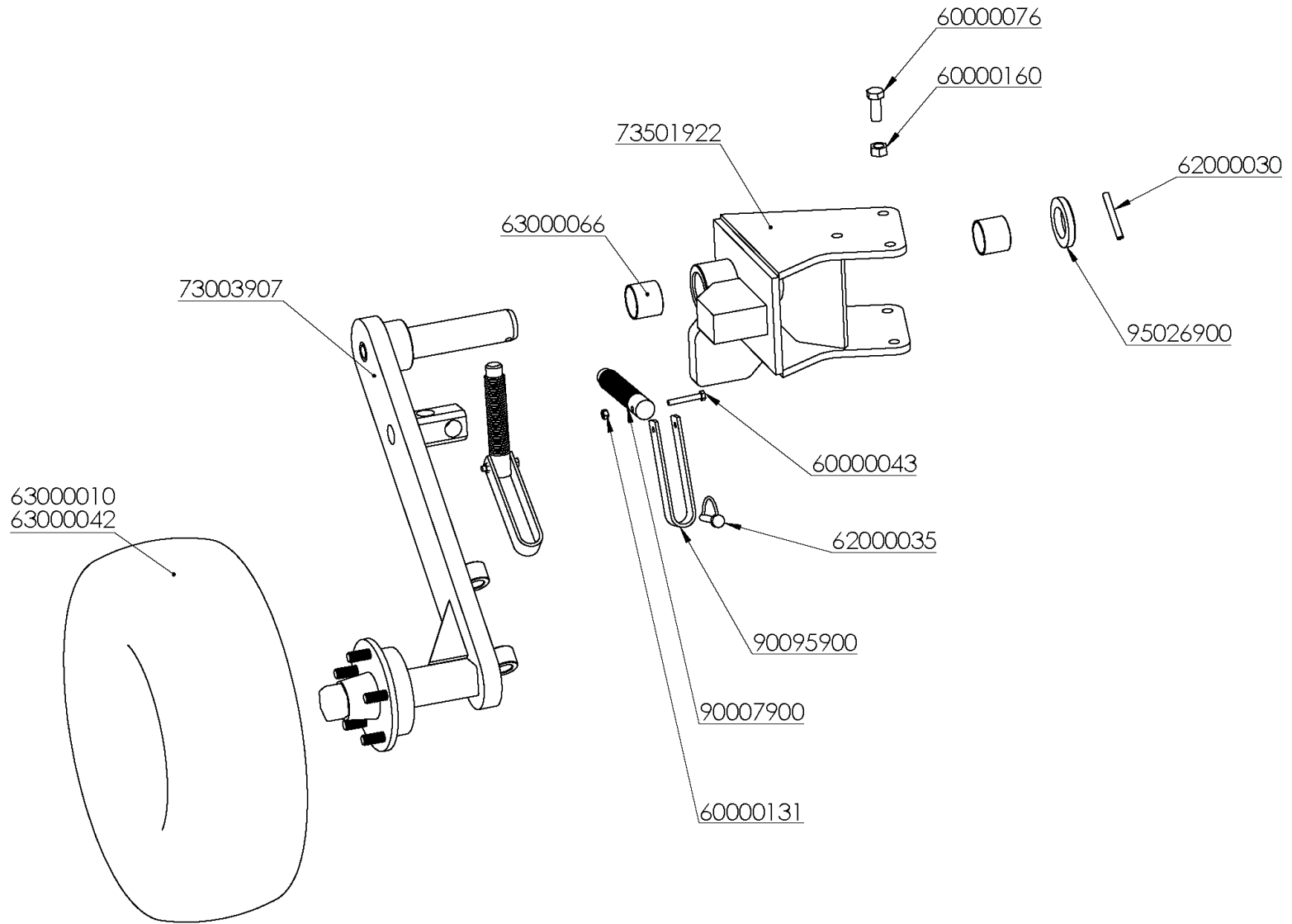


CONTROL & TRANSPORT WHEEL FB-FF

REFERENCIA	DESCRIPCIÓN
53004920	BULON D=25*175mm.BRAZO RDA.(D/03)
55007900	BULON D=25*160mm.TRANSP./CONTROL RDA.C/T
56003920	ARAND.P/EJE RDA.C/T
56005920	HORQ.RDA.C/T AV (608*205) (D/03)
56005930	HORQ.RDA.C/T AV (685*260)
56005940	HORQ.RDA.C/T AV (686*304)
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
60000153	TUER.EXAG.DIN-934 1"SAE 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
62000041	PASADOR ELAST.DIN-1481 5* 50
63000010	R.N.C/ATAQUE 200/60*14,5"-10PR RAL-6029
63000042	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-6029
63000072	CASQ.FRICCION PAP 2525 P10
63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
64000041	SOP.TOPE MOVIL ZINC.
64000042	TOPE MOVIL TRATADO + ZINC.
68002940	SOP.RDA.C/T FB (D/05)
68003940	BRAZO RDA.C/T FB (D/05)
90037900	BULON D=25*154mm.TOPE RDA.



OSCILLATING WHEEL FB

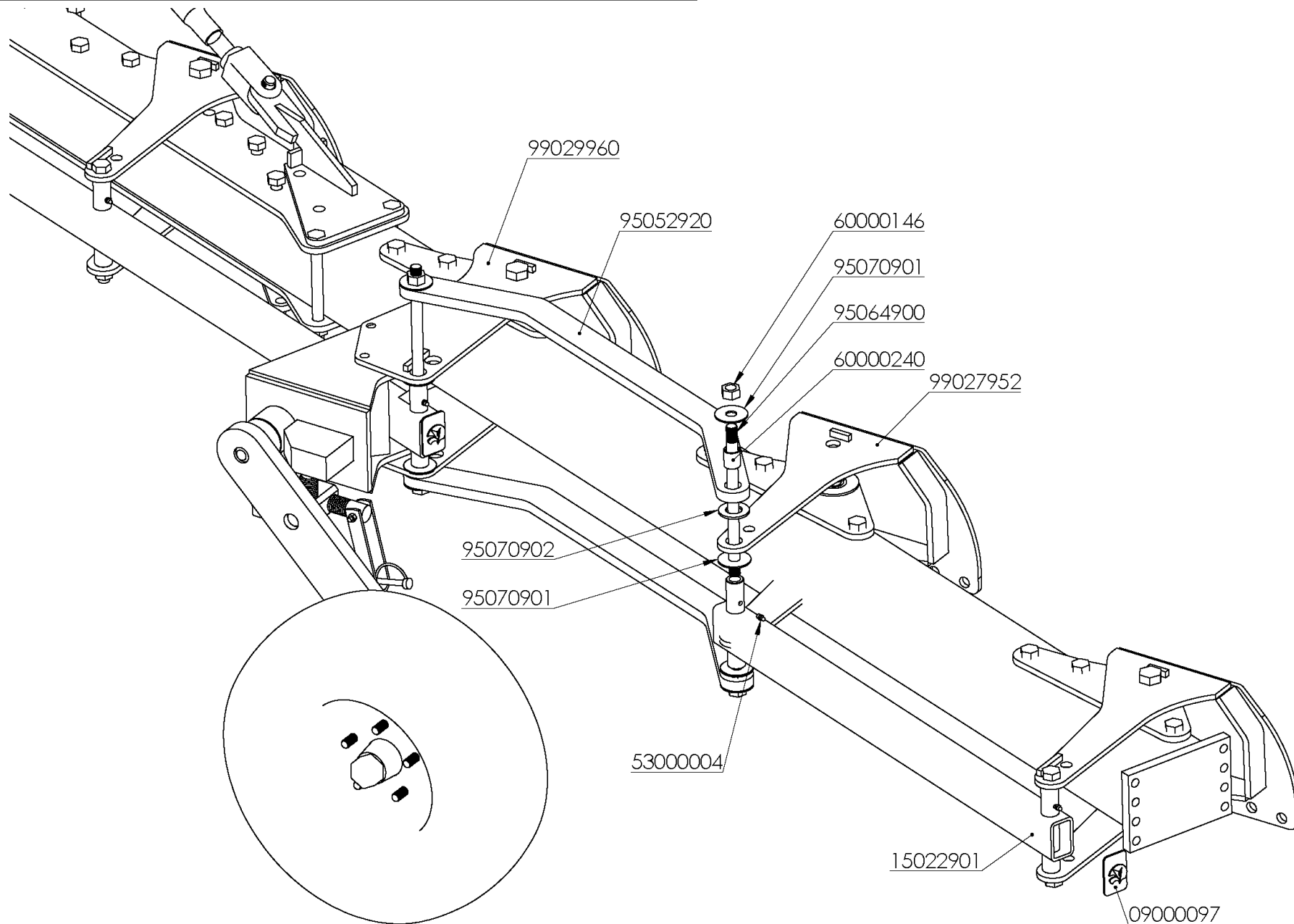


OSCILLATING WHEEL FB

REFERENCIA	DESCRIPCIÓN
60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
62000035	PASADOR CON ARCO D=10*60mm. ZINC.
63000010	R.N.C/ATAQUE 200/60*14,5"-10PR RAL-6029
63000042	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-6029
73003907	BRAZO RDA.NEUM. OSCIL.MF/LN (608*205/685*260)
73501922	SOP.RDA.OSCIL.FBN
90007900	HUSILLO TOPE 185mm.
90095900	MANILLA TOPE ZINC.
63000066	CASQ.FRICCION PAP 5040 P10
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
95026900	ARAND.P/BULON GIRO BASTIDOR



ADVANCED OSCILLATING WHEEL ASSEMBLY FB



ADVANCED OSCILLATING WHEEL ASSEMBLY FB

REFERENCIA	DESCRIPCIÓN
9000097	TAPON GOMA 80* 50* 6mm.
15022901	BIELA SN-1-95 C/RDA.C/T ADEL.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
60000240	CASQ.D= 29,7/20,5*34mm.CEM.ARTIC.BIELA SS
95052920	EMPALME BIELA RDA ADEL 95
95064900	TORNILLO EJE BIELA SS
95070901	ARAND.DIN-9021 20 CEMENTADA
95070902	ARAND.DIN-125 30 CEMENTADA
99027952	SOP.ARTIC.CAMBA SFBN
99029960	SOP.ARTIC.CAMBA/RDA.ADEL.FBN





Polígono Industrial, C/ TAF, P163
34200 - Venta de Baños
Palencia - España



+34 979 76 10 11



comercial@ovlac.com



www.ovlac.com