



ovlac



OPERATING INSTRUCCIONES AND SPARE PARTS



REVIEW 2015-10

FB

OBSERVATIONS

This handbook describes the use, maintenance instructions and spare parts supplied for the indicated plough.

The farming implement known as “plough” is designed to work the soil, linked to a tractor with lift and universal 3-point coupling.

Regular and satisfactory operation together with economic and long lasting use of the implement depends on compliance with the instructions given in this handbook. It is, therefore, advisable to strictly comply with the following instructions in order to prevent faults which could jeopardise the correct and long-lasting operation of the implement.

Compliance with the instructions in this handbook is also important **since the Manufacturer declines all and every responsibility caused by negligence and failure to comply with these instructions.**

The Manufacturer shall, however, remain at the customer’s disposal for immediate and thorough assistance together with anything else that may be required in order to ensure the correct operation and maximum efficiency of the implement.

The Manufacturer reserves the right to make any modifications and improvements to the implement, as may be considered opportune, without being obliged to immediately inform the user.

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1. SAFETY PROVISIONS

1.- Comply with the instructions given by the danger signals exposed in this handbook (Fig.1) and affixed to the plough itself.

2.- Operations and adjustments to the implement must always be carried out when the engine is off and the tractor braked.

3.- It is absolutely forbidden to carry passengers or animals on the plough.

4.- It is absolutely forbidden for persons without a driving license, inexpert persons or those in precarious health conditions to drive the tractor with the plough mounted.

5.- Strictly comply with all the recommended accident preventing measures described in this handbook.

6.- Assembly of an implement on the tractor will shift the weights on the axles.

7.- Before starting the tractor and plough, always check that all safety devices guarding transport and use are in perfect conditions.

8.- The instructions labels affixed to the plough give useful advice on how to prevent accidents.

9.- Always comply with the highway code in force in your country when travelling on public roads.

10.- Comply with the maximum permissible weight on the axle of the tractor, the total adjustable weight, transport regulations and the highway code.

11.- Always become familiar with the controls and their operation before starting work.

12.- Take the utmost care during the plough coupling and release phases.

13.- Never ever leave the driving seat whilst the tractor is moving.

14.- Remember that the road holding, steering and breaking capacity may be notably influenced by the presence of a mounted implement.

15.- It is absolutely forbidden to stand within the operative range of the plough.

16.- Before leaving the tractor, lower the mounted plough coupled to the lift unit, stop the engine, engage the hand brake and remove the ignition key from the control panel.

17.- The category of the implement coupling pins must correspond to that of the lift coupling.

18.- Take care when working close to the lift links. This is a very dangerous area.

19.- It is absolutely forbidden to stand between the tractor and the plough, to manoeuvre the outside lift control.

20.- Set the control lever of the hydraulic lift to the locked position during road transport with the plough mounted.

21.- The spare parts must correspond to the requirements established by the Manufacturer. Use only genuine spare parts.

22.- The safety transfers must always be perfectly visible. They must be kept clean and should be replaced if they become illegible. Replacements are available on request from your local dealer.

23.- The instruction manual must be kept for as long as the machine lasts.

(Fig.1) WARNING

Thoroughly read the manual before starting to work

DANGER

Do not handle the plough when lifted, danger of flattening. Keep safety distance.

DANGER

Damage can be caused by the rotation of the plough. Keep safety distance.

Be prepared in case of emergency

Have near a first aid kit and an extinguisher. Write down the telephone numbers of doctors, ambulances and firemen and keep them near the telephone.

Use suitable clothes

Avoid loose clothes and use suitable equipment of security according to the type of works. The safe handling of the machine requires all the attention of the operator.

Don't put on auricular to listen to the radio during the work with the machine.

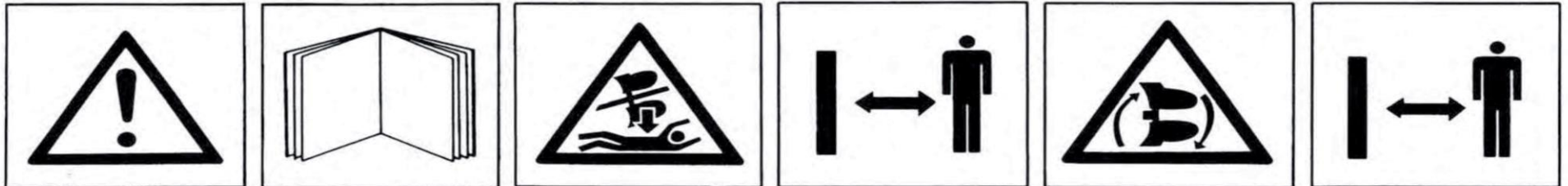
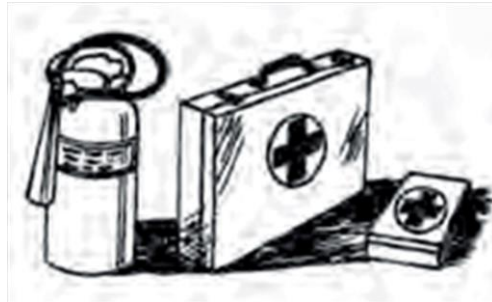
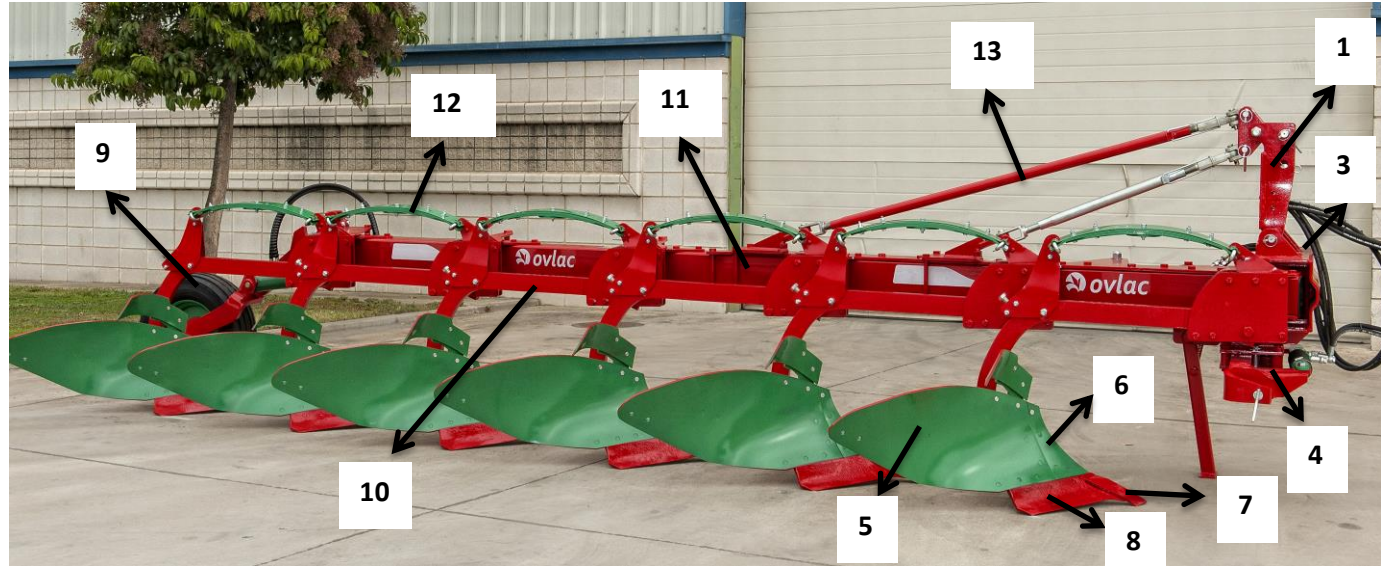


Fig.1

2. DESCRIPTION AND TECHNICAL DATA

1. HEADSTOCK
2. IDENTIFICATION PLATE
3. HEADSTOCK SUPPORT
4. CROSS SHAFT
5. MOULBOARD
6. ADDITIONAL MOULBOARD
7. SHARE POINT
8. SHARE
9. PNEUMATIC WHEEL
10. ROD
11. FRAME
12. LEAF SPRING
13. TURNBUCKLE

REMARK: The construction number that is engraved in the identification plate must be coincident with the number engraved on the headstock support.



IDENTIFICATION PLATE (2)



TECHNICAL DATA

FB	FB-2	FB-3	FB-4	FB-4+1	FB-5 EXT	FB-6
Working width	50/100	75/150	100/200	125/250	125/250	150/300
Power	60/80	80/90	90/120	120/140	120/140	130/160
Weight Kg	730	990	1250	1510	1670	1860

3. VARILABOR

The FB plough incorporates the **OVLAC** exclusive system to adjust the furrow width -Varilabor - which allows to choose any working width between 10" (30 cm) and 20" (50 cm) by means of one only operation on the turnbuckle A (Fig 2).

With the optional hydraulic adjustment, the same operation can be done, even while working, from the tractor cabin, by means of the cylinder B (Fig 3).

The pointer C (Fig. 2) shows the chosen furrow width. Varying the furrow width permits to adapt the plough to soil conditions and to the power of the tractor.

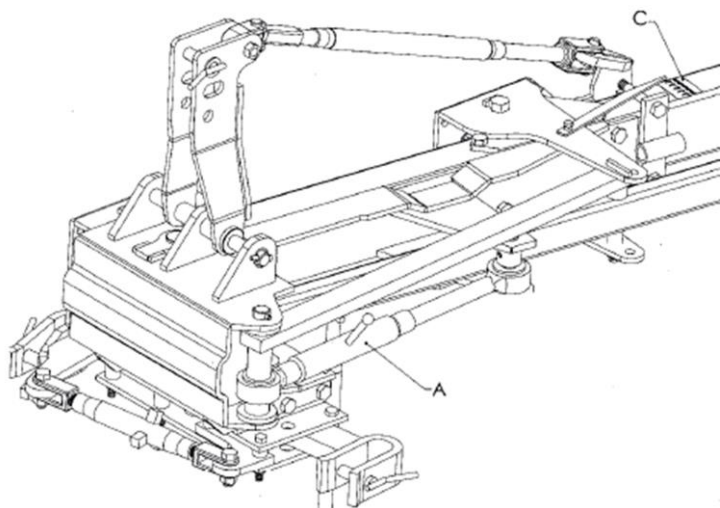


Fig.2



Fig.3

4. AUTO RESET PROTECTION SYSTEMS

The Auto Reset protection systems work automatically. When the share meets an obstacle the protection system pulls the beam up (Fig. 2) thus avoiding the obstacle and returning to its original position afterwards with no need to stop the tractor.

This way all the impacts produced by an uneven field are absorbed by the protection system thus protecting all the elements of the plough and of the tractor too.

For the same reason, the Auto Reset protections decreases the traction effort by not making the tractor overcome every eventual obstacle.

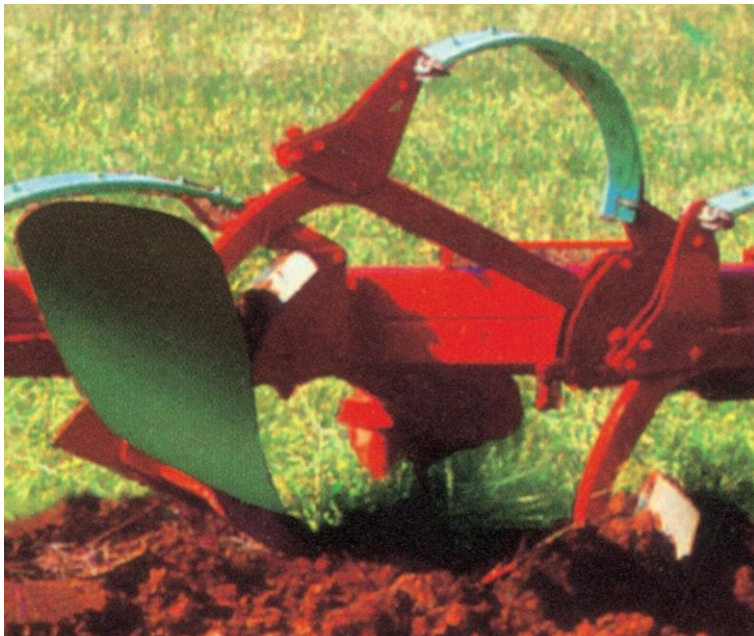


Fig.4

In heavy duty conditions one or more leafs can be added to ease penetration of the plough.

Always check that the distance of the arch determined by the spring is $700 \pm 2\text{mm}$ (Fig. 5). This is achieved by means of the bolt A (Fig. 5). The same figure shows how to adjust the angle of the frogs by means of the hexagonal excentric nut B.

Note: The Auto Reset systems from OVLAC are adjusted at the works at an optimal pressure for average conditions.

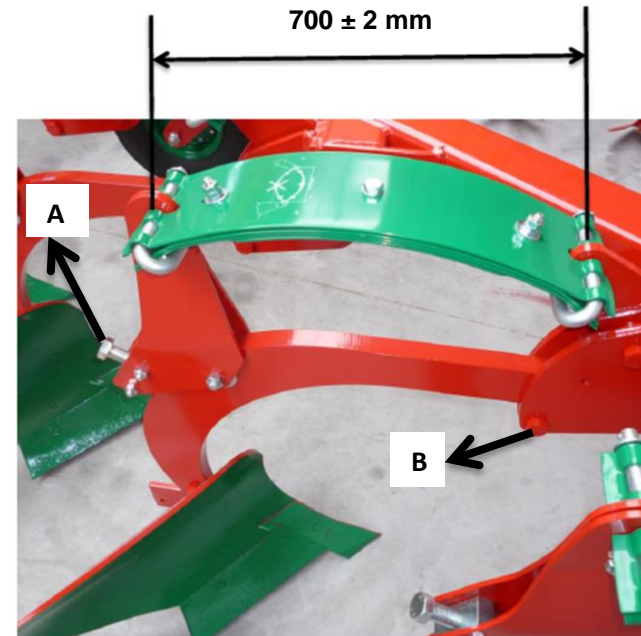


Fig.5

5. SET TO WORK

5.1 – MOULBOARDS

Before starting to work, the paint on the mouldboards should be removed to avoid that the soil remains adhered.

Verify that the lengths $A_1=A_2$ and $B_1=B_2$, as shown in figure (Fig.6). If these lengths are not the stay C, working on the nuts D ad D (Fig.7.).

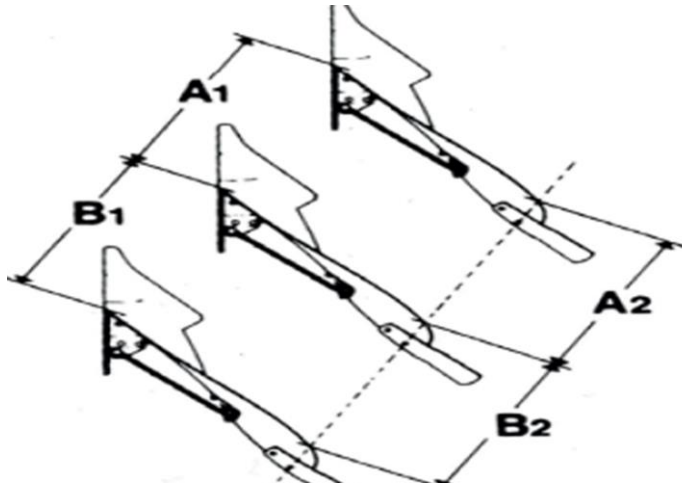


Fig.6

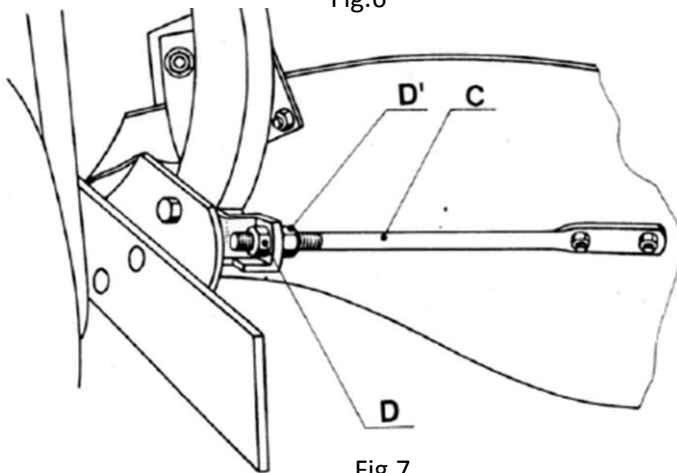


Fig.7

5.2 – HITCHING TO THE TRACTOR

The OVLAC ploughs are designed to fit to the 3-point universal coupling of any farming tractor.

The cross shaft can be supplied in two different lengths (centre to centre):

Category II	900 mm.
Category III	1.000 mm.

The cross shaft must have the appropriate length to make the drawing powers converge in the centre of the frontal axle, as shown in (Fig. 8).

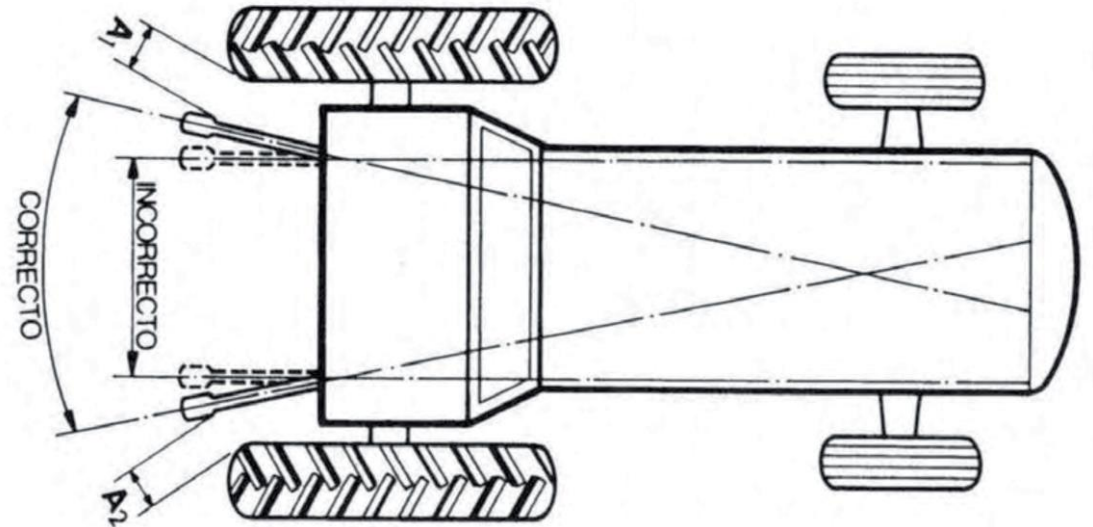


Fig.8

5.3 – ALIGNMENT

The plough should always work in line with the tractor. Otherwise, the tractor will tend to leave the furrow course. Check that lengths $A1=A2$ (Fig.8).

Crabbing is corrected automatically in OVLAC ploughs thanks to their oscillating cross shaft.

Nevertheless, if the tractor tends to get out the furrow, the pin B (Fig.9) must be moved one hole to the right if the trend is leftwards and vice versa.

The top link must be parallel to the direction of the tractor sliding, if necessary, the headstock T (Fig.9) along support C.

The top link should be placed so that the end linked to the plough is slightly higher than the one linked to the tractor (Fig.10).

The top link should always be placed in the oblong hole E (Fig. 9) so that its length does not hinder it to move freely while working.

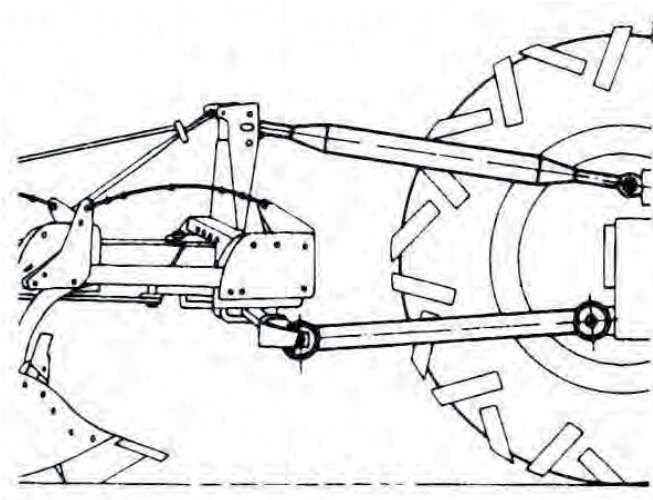


Fig.10

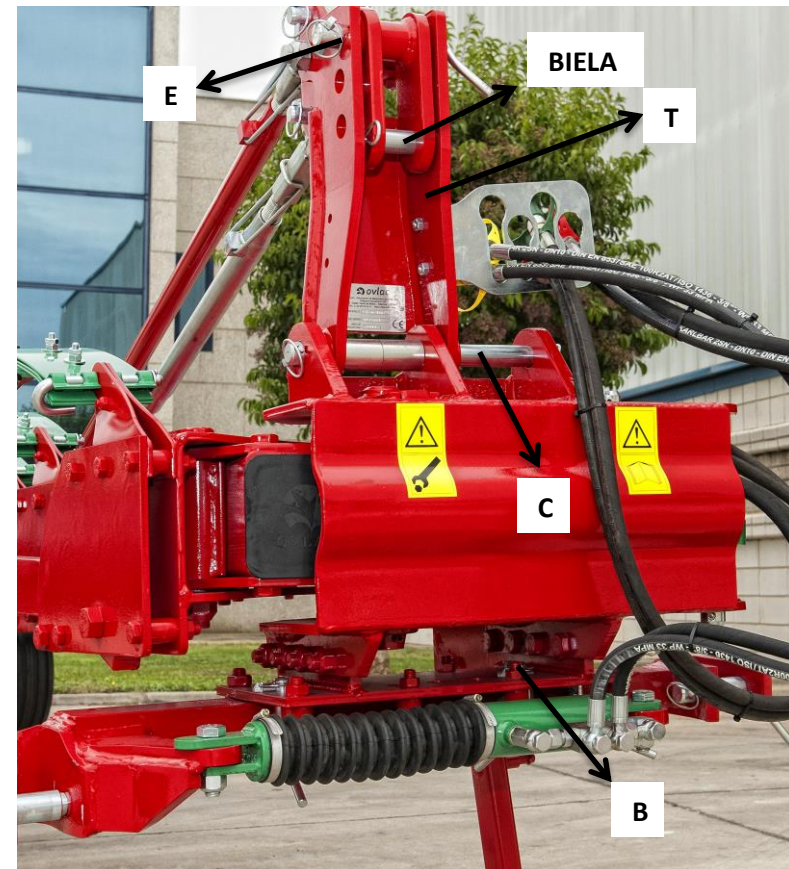
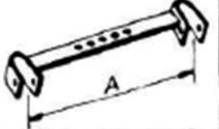
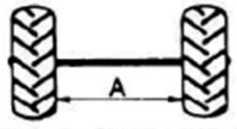


Fig.9

5.4 – FRONT FURROW WIDTH

The width of the first furrow is adjusted by sliding the cross shaft B left or right by means of the turnbuckle T (Fig.11), so that the observations in figure (Fig.12) are complied.

The cart below shows the working widths which can be chosen according to the tractor width and the length of the cross shaft.

		Ancho de Surco Furrow Width Largeur Du Sillon
A = 90	120	30-45
	130	40-50
	140	35-45
	150	40-50
A = 100	140	35-45
	150	40-50
	160	40-50

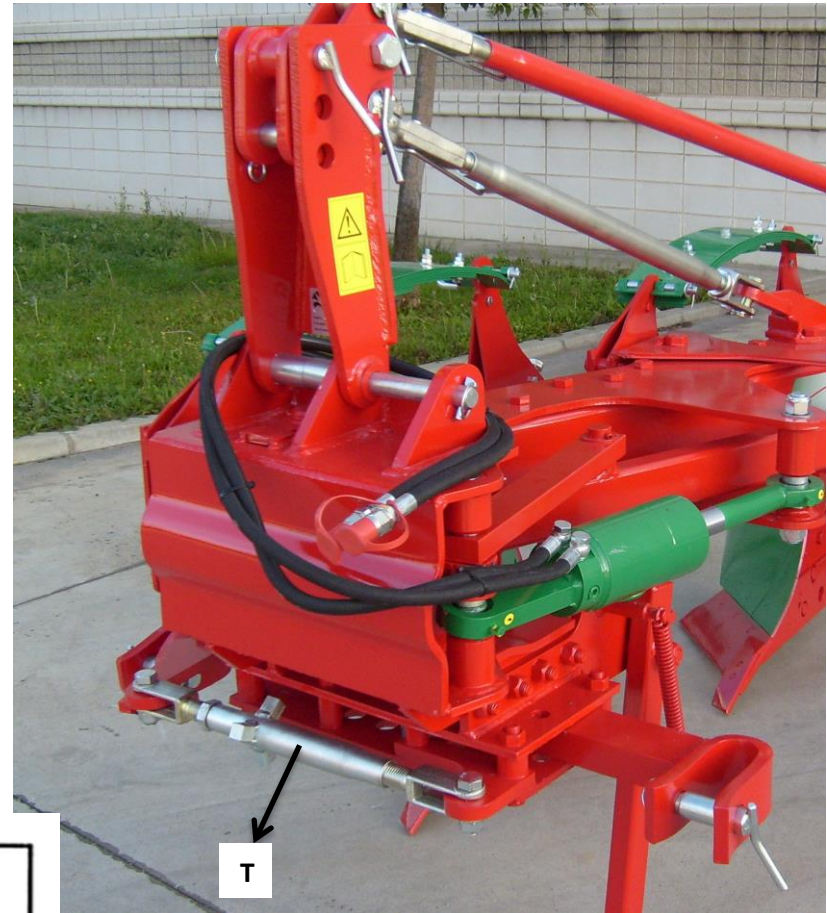
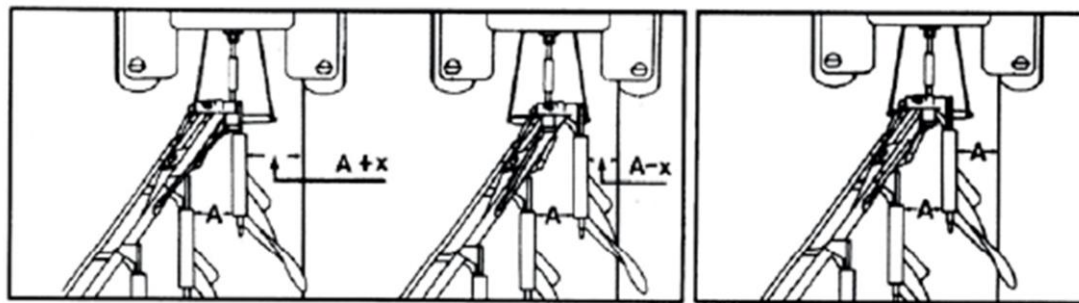


Fig.11



Incorrecto / Wrong / Incorrect

Fig.12

Correcto / Right / Correct

5.5 – OTHER ADJUSTMENT

The length of the third point should be adjusted so that the frame works in a parallel position with respect to the field since, if not, the first bodies would plough at a different depth than the rear ones achieving an uneven labour (Fig. 13).

For the same reason, check that the beams work vertically to the field (Fig.14). To achieve this, make sure that the lifting arms of the tractor are at the same height and act on the adjusting bolts A at the headstock (Fig.15).

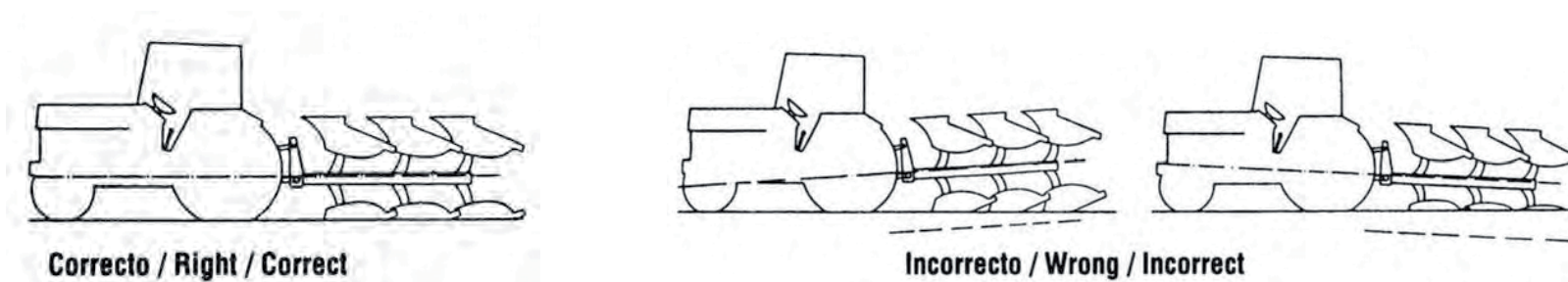


Fig.13

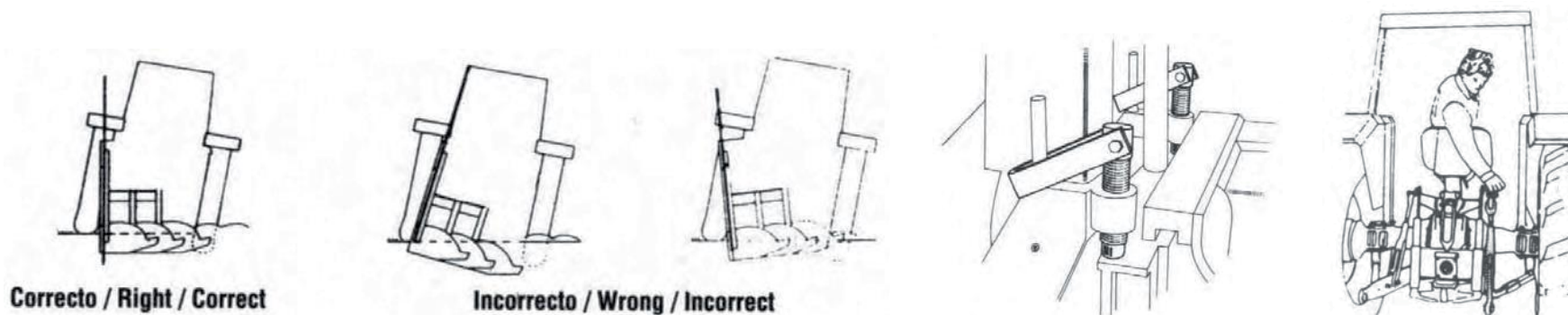


Fig.14

Fig.15

6. PLOUGHING DEPTH

The ploughing depth is adjusted through the hydraulic lever of the tractor. Nevertheless, obtain an even depth, all ploughs can be equipped with a depth control wheel (Fig.16) whose height is adjusted by bolt A.

There is a relation between depth and width which should be respected in order to achieve a good result.

The following chart gives an excellent reference which, if complied, will lead to satisfactory results.

Anchura / Width / Largeur	Pulgadas	12"	14"	16"	18"	20"
	cm	30	35	40	45	50
Profundidad máxima / Max. Depth / Max. Profondeur (cm)		24	28	32	36	40
Profundidad mínima / Min. Depth / Min. Profondeur (cm)		15	17	20	22	25
Profundidad recomendable / Recommended depth / Profondeur recommandavle (cm)		21	25	28	32	35



Fig.16

7. TRANSPORT AND PARKING

In order to ease transport, the plough should be drawn to its minimum width by means of the width control system (turnbuckle or hydraulic cylinder). Long ploughs (4 and 5 furrows) can be equipped with a multi-purpose wheel: depth control and transport (Fig.15).

To carry the plough on the combi wheel, place pin B in hole C and release the top link from the headstock. Block the oscillating cross shaft by means of pin D (Fig.15).

The stand (fig.16) guarantees a steady position when the plough is parked.



Fig.16

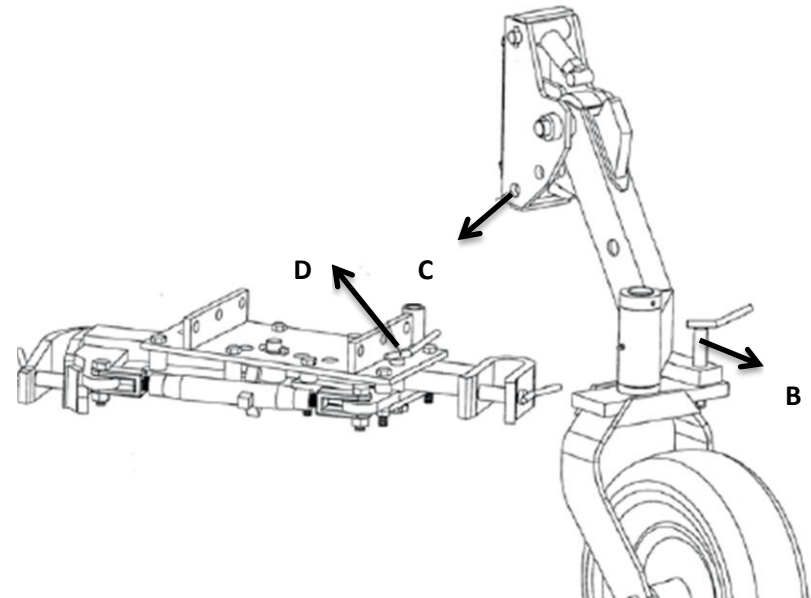


Fig.15

8. MAINTENANCE

Retighten all bolts and nuts after the first 8 hours of work, specially the ones of mouldboards, shares and points. Henceforth, check every 100 hours of work. When putting the plough away, clean and grease thoroughly the mouldboards to prevent from rusting.

Lubrication: grease the greaser.

Safe maintenance

Be used to the maintenance procedures before carrying out the works. The working zone must be clean and dry. Don't carry out any work of lubrication, repair or adjust with the motor enabled. Keep the hands, feet and clothes always far from movable components. Turn all the controls off, to alleviate the pressure. All the components must be in good state and correctly installed. Repair damages immediately. Change any worn away or broken pieces. Maintain all the components of the machine clean of fat, oil and accumulated dirt. Because of being dragged equipment, disconnect the cable groups of the tractor before making works of weld in the machine.



Take care of the leaks of high pressure

The fluids that escape of the system can have as much force that they can penetrate the skin, causing serious injuries. Therefore, it is essential to leave the system without pressure before relaxing or disconnecting any pipe and make sure that all the connections and the hydraulic parts they are well tight before applying pressure to the system. In order to locate a hydraulic oil leak, use a piece of cardboard that is put on the connections. Do not approach the hands and the body to a leak of high pressure. If, in spite of this precaution, it happens an accident, go immediately to a doctor who should eliminate surgically the fluid within few hours to avoid gangrene. The doctors who do not have experience in dealing with these type injuries can go to a specialized medical centre.

Storage of the hydraulic sleeves.

IMPORTANT: maintain the plugs clean. The abrasive particles, like the sand or the metallic shaving, can damage the oil seals, shirts and cylinders, causing internal leaks. Once disconnected of the tractor, make sure that they are not in contact with the ground



9. OPTIONAL EQUIPMENT

The Ploughs **FB Ovlac** can be equipped with:

- 9.1 Cover boards (Fig.17).
- 9.2 Landslide extension (Fig.18).
- 9.3 Hydraulic wheel (Fig.19)
- 9.4 Transport wheel (Fig.20)
- 9.5 Hydraulic width first furrow adjustment (Fig.21)
- 9.6 Disc coulters (Fig.22).



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

CONTENT

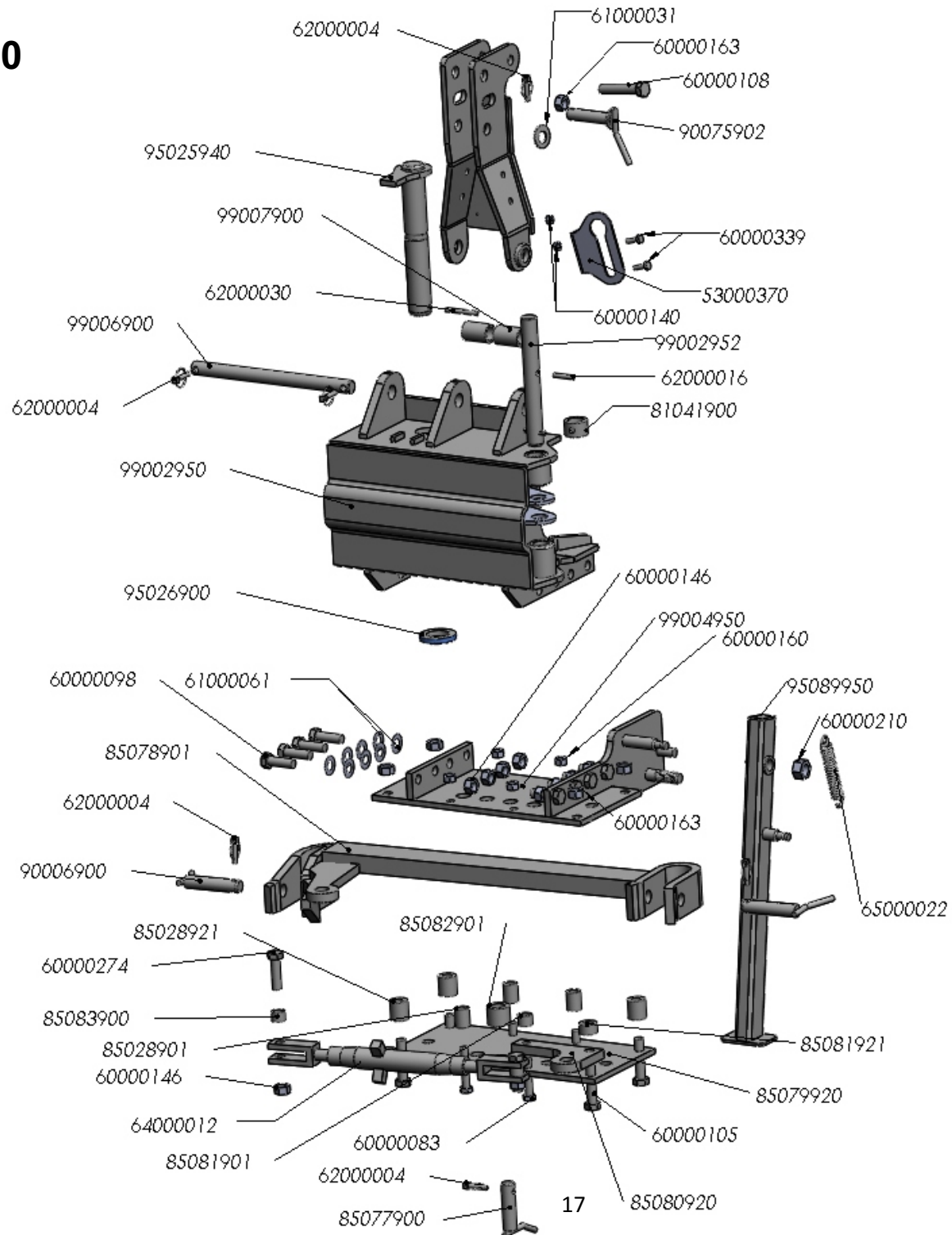
10. SPARE PARTS

Spare parts should always be ordered from your dealer and should always include the following indications:

- **Type, model and serial number of the plough.** These data are punched on the identification plate with which every plough is equipped.
- **Code number of the required spare part.** This will be found in the attached spare parts list.
- **Description of the part and required quantity.**
- **Means of delivery.** Transport expenses shall always be at the consignor's charge.
- **NOTE:** The terms **Right** and **Left** indicated on the descriptions, refer to the plough when viewed from the rear. The spare parts components of waste equipment, as shares, mouldboards, etc., are considered right if they are mounted on a body which spills the soil to the right side and viceversa.
- **Note about the warranty:** The orders of spare parts in warranty should always be clearly specified. **The Manufacturer will always sentence if the spare parts are warranted in their replacement.**
- **Moreover, the warranty is suppressed if:**
 - **The plough is repaired without authorisation from the Manufacturer, or spurious spare parts, and inadequate bolts are mounted.**
 - **The plough has been used beyond the specified power limit, or anomalous manoeuvres and operations have been made.**

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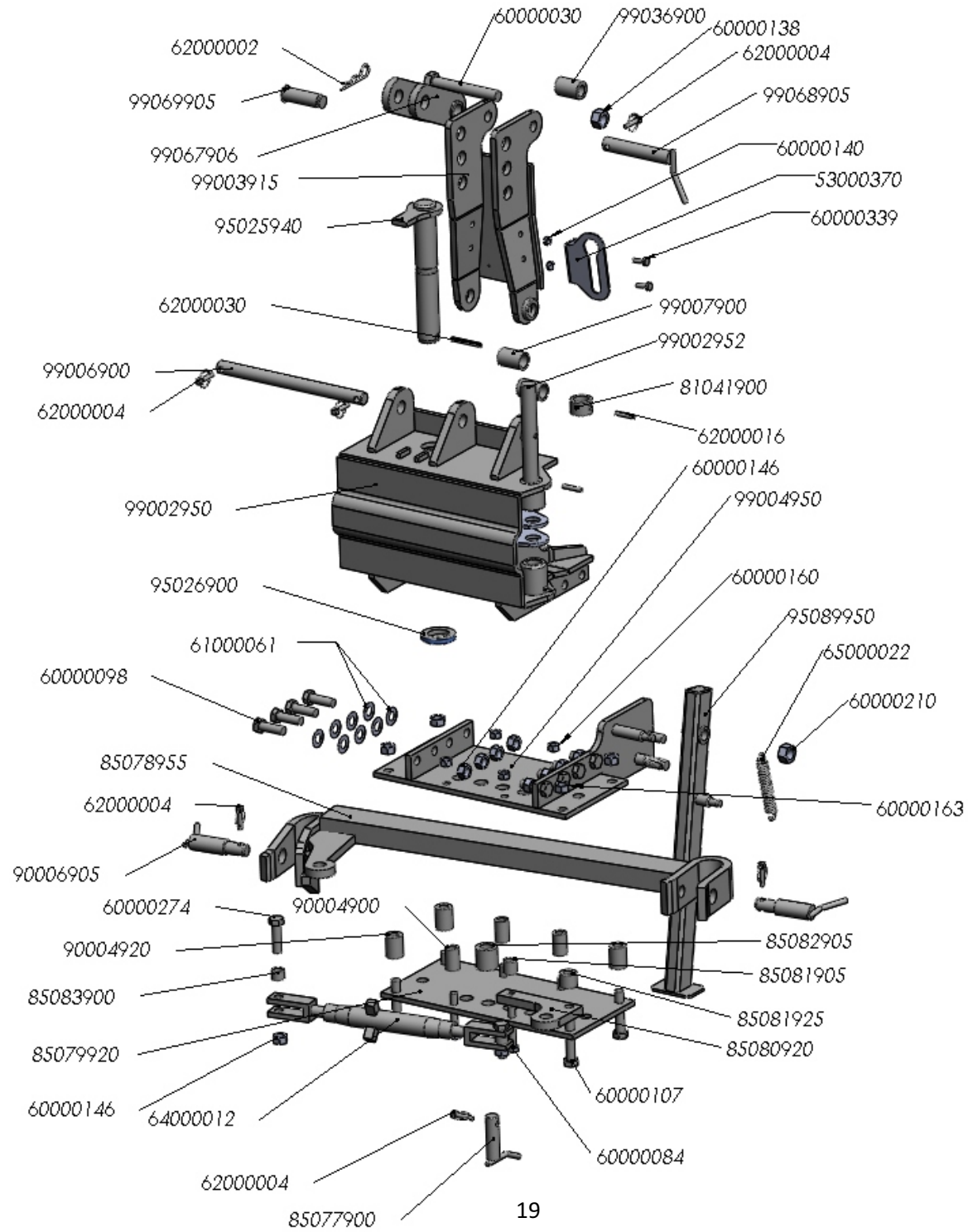
HEADSTOCK 100



HEADSTOCK 100

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	85028901	SEP.B.P.32/20* 42mm.
60000083	TORN.EXAG.DIN-931 16* 90 8.8	85028921	CASQ.D=40/21*42mm.SEP.BALANC.40mm.FB (D/03)
60000098	TORN.EXAG.DIN-931 20* 60 8.8	85077900	BULON D=30*105mm.TIRO FB
60000105	TORN.EXAG.DIN-931 20* 90 8.8	85078901	BALANC.DESPL.40mm.CAT-II
60000108	TORN.EXAG.DIN-931 20*110 8.8 ZINC.	85079920	PLACA SUP./INF.BALANC.FB (D/03)
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	85080920	OREJA PLACA BALANC.DESPL. (D/03)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	85081901	SEP.B.P.32/20* 23mm.
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	85081921	CASQ.D=40/21*22mm.SEP.BALANC.40mm.FB (D/03)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	85082901	CASQ.D= 50/31*40mm.APOYO BALANC.DESPL.40mm.
60000163	TUER.EXAG.DIN-934 20 8.8	85083900	CASQ.D= 29,8/21*21mm.ARTIC.OREJAS FRBV/FB
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	90006900	BULON D=28*130mm.BALANC.CAT.II ZINC.
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95025940	BULON D=50*336mm.GIRO BAST.FBN
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)	95026900	ARAND.P/BULON GIRO BASTIDOR
61000061	ARAND.CALZO CABEZAL FB	95089950	PEON FBN
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.

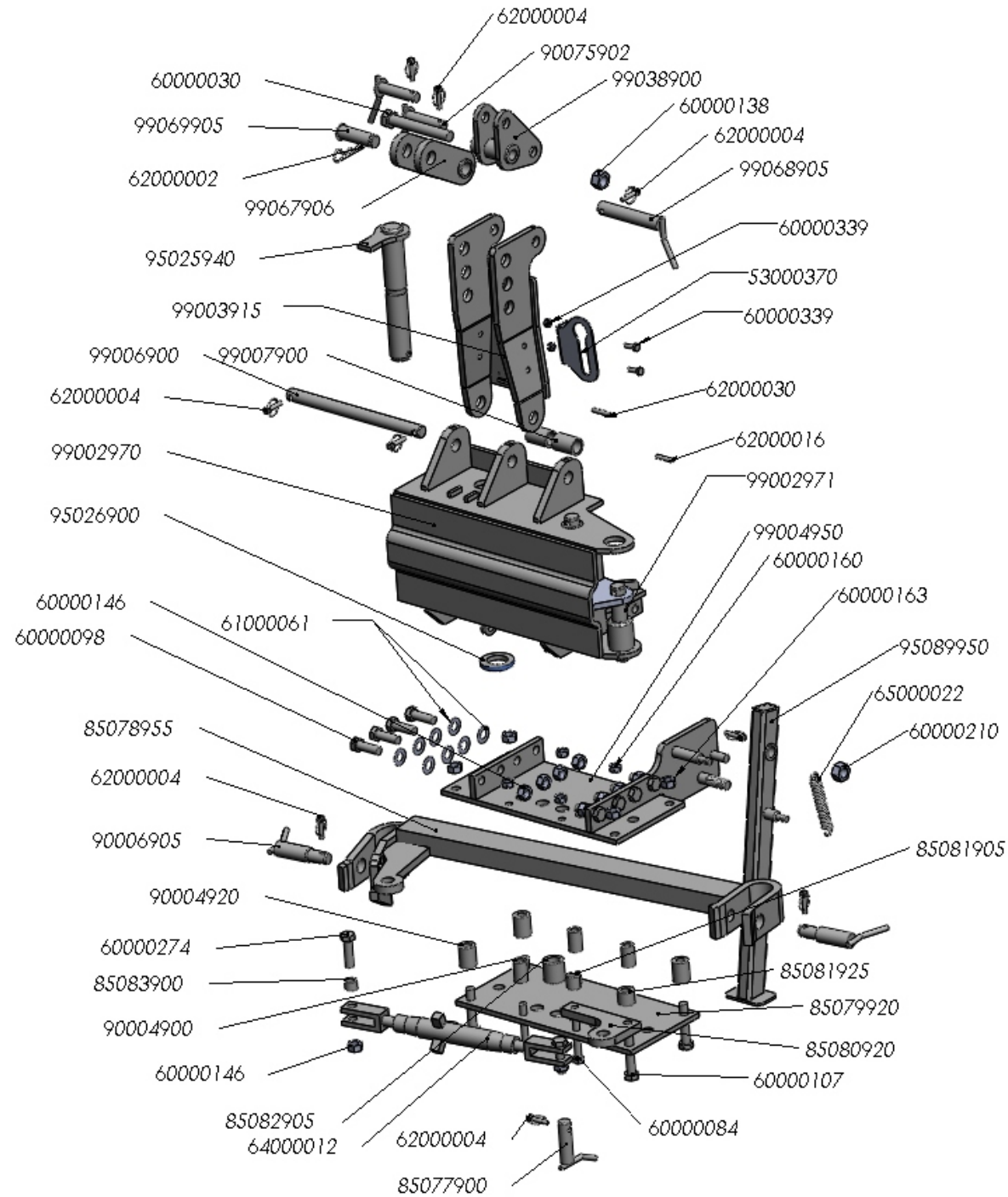
HEADSTOCK 150



HEADSTOCK 150

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	95025940	BULON D=50*336mm.GIRO BAST.FBN
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	95026900	ARAND.P/BULON GIRO BASTIDOR
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	95089950	PEON FBN
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	99067906	BIELA TORRETA FB-5 (D/02)
81041900	SEP.B.P.51/36* 32mm.ZINC.C/TAL.	99068905	BULON D=31,5*180mm.CONEX.BIELA TORRETA (D/02)
85077900	BULON D=30*105mm.TIRO FB	99069905	BULON D=31,5*106mm.TIRO BIELA FB-5/6 (D/02)
85078955	BALANC.DESPL.50mm.CAT-III/III		

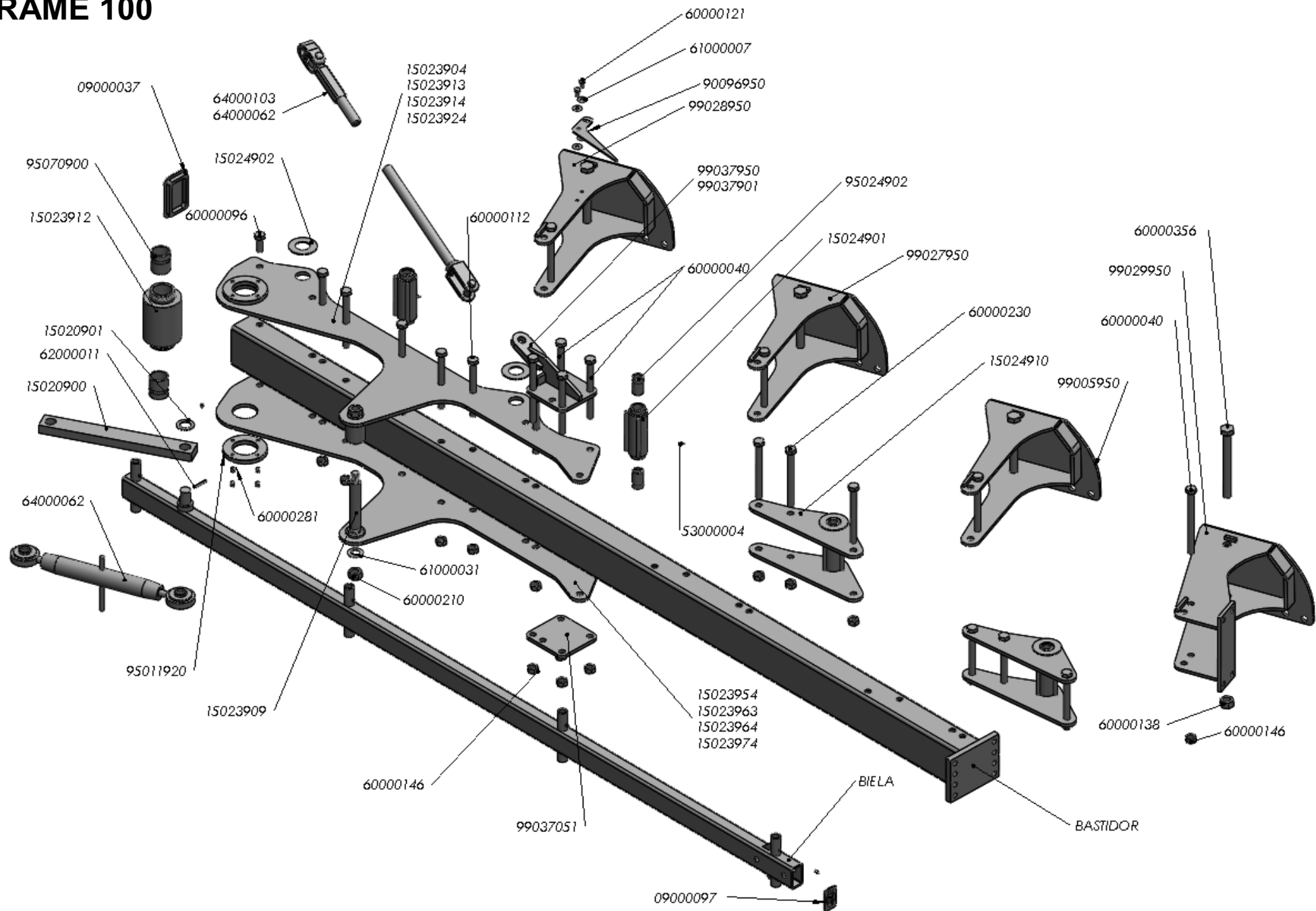
HEADSTOCK 180



HEADSTOCK 180

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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

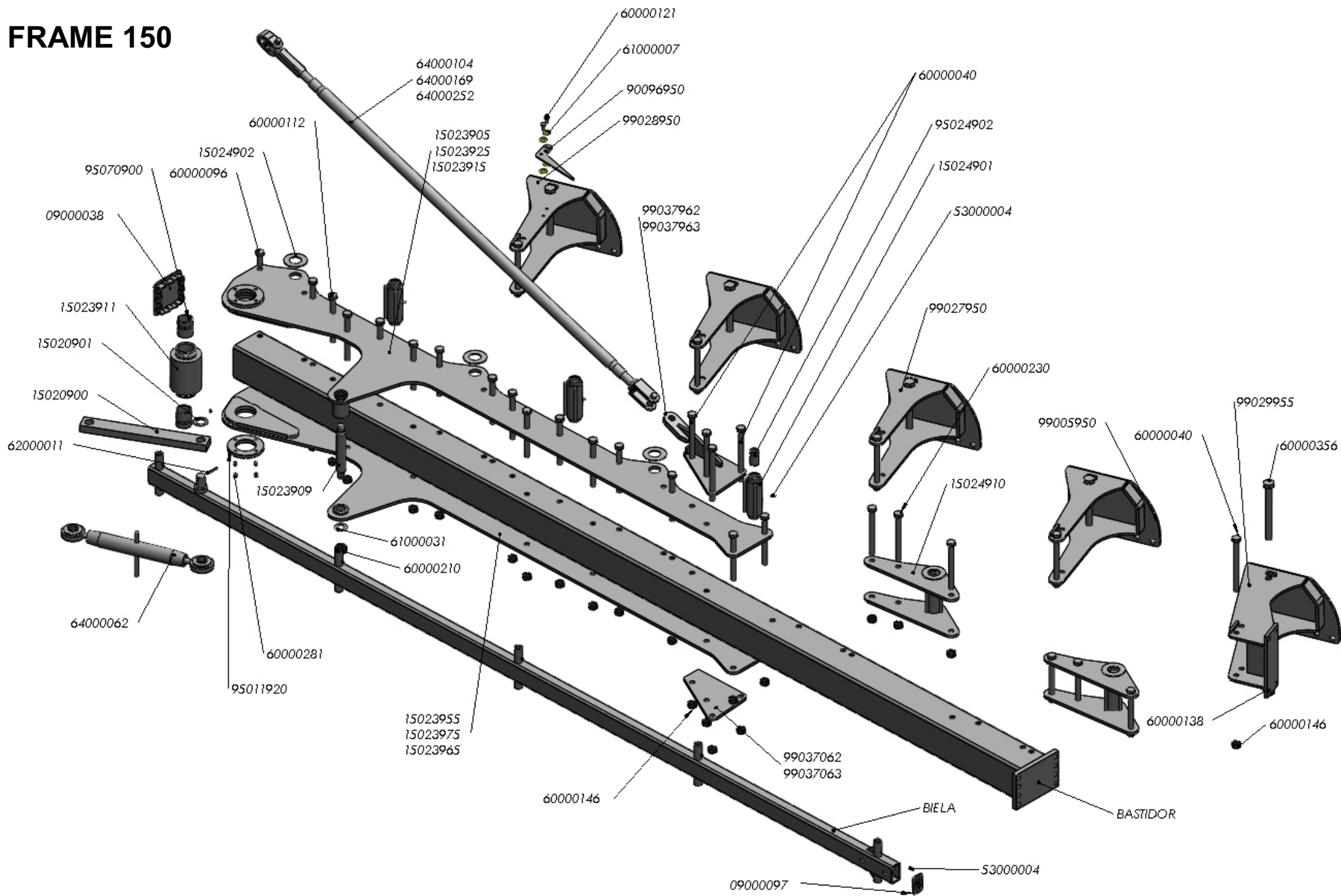


FRAME 100

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

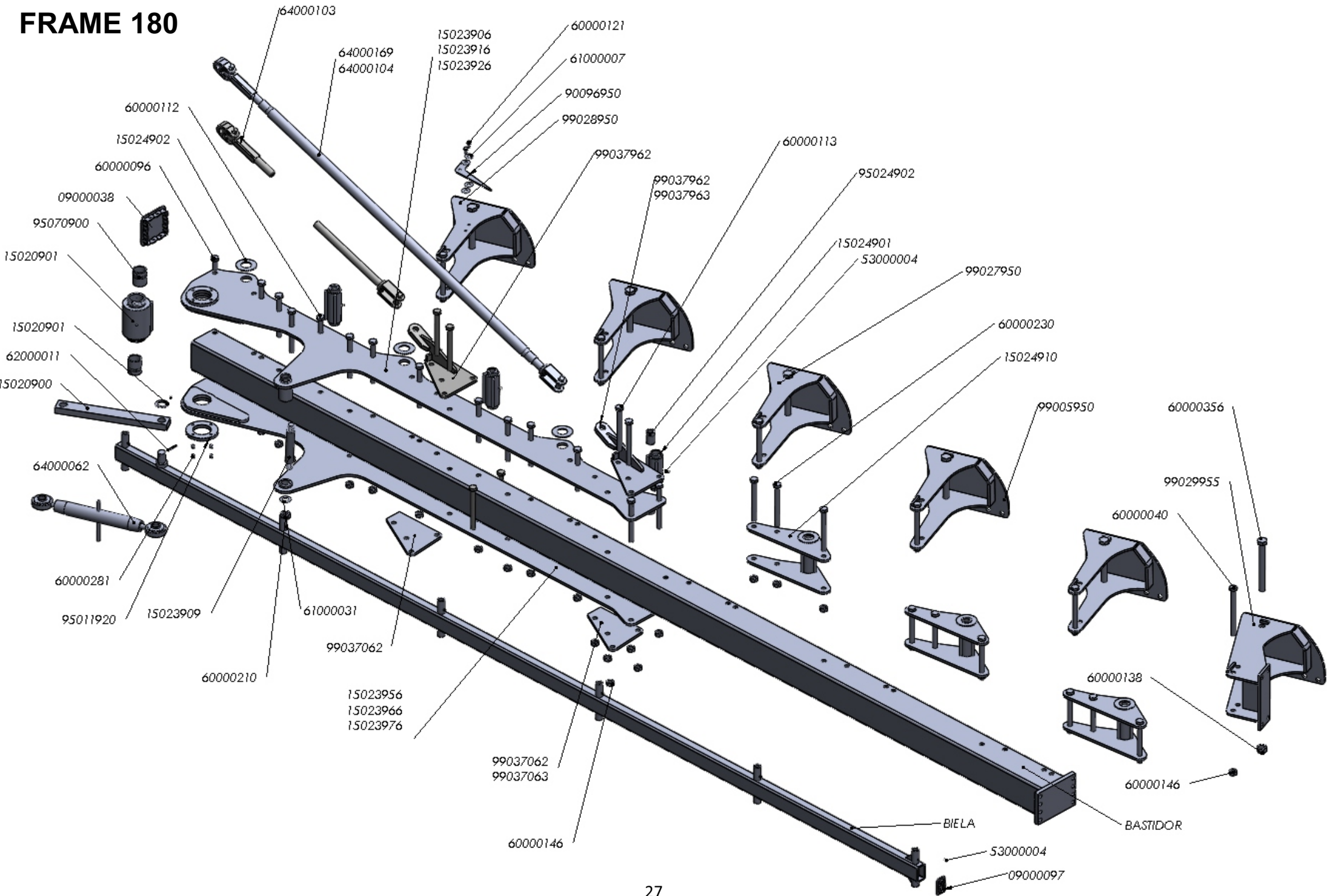


FRAME 150

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	REFERENCIA	DESCRIPCIÓN
9000038	TAPON GOMA 150*150*10mm.	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
9000097	TAPON GOMA 80* 50* 6mm.	60000230	TORN.EXAG.C/LAR.20*200 12.9
15020900	LLANTA TIRO BIELA SN (500/440)	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15020901	ARAND.D=35,5mm.LLANTA TIRO BIELA SN	60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
15023905	PLACA SUP.SOP.GIRO BAST.SN-4A/5-95	61000007	ARAND.DIN-9021 10 ZINC.
15023909	BULON D=34,6*240mm.ROSC.TENSOR POST.SN + DACROMET	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023912	CASQ.GIRO BAST.SN-150 C/VARILLAS	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
15023915	PLACA SUP.SOP.GIRO BAST.SN-4A/5-85	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15023925	PLACA SUP.SOP.GIRO BAST.SN-4A/5-105	64000104	TENSOR 1"1/4*1450 C/HOR.30231-GRILL.30367
15023955	PLACA INF.SOP.GIRO BAST.SN-4A/5-95	64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
15023965	PLACA INF.SOP.GIRO BAST.SN-4A/5-85	64000252	TENSOR 1"1/4*1850 C/HOR.30231-GRILL.30367
15023975	PLACA INF.SOP.GIRO BAST.SN-4A/5-105	90096950	MARCADOR TAJO 2P ZINC.
15024901	CASQ.D= 60/45,9/35*183mm.C/VAR.PORTAC.SN	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
15024902	ARAND.D=90/46*4mm.CEM.PORTAC.SN	95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
15024910	SOP.GIRO PORTACAMBAS SN	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
53000004	ENGRASADOR AC° DIN-71412 8*125	99027950	SOP.ARTIC.CAMBA FBN
60000040	TORN.EXAG.DIN-931 20*230 8.8	99028950	SOP.ARTIC.MARCADOR FBN
60000096	TORN.EXAG.DIN-933 20* 50 8.8	99029955	SOP.ARTIC.CAMBA/RDA.FBN-5A/6
60000112	TORN.EXAG.DIN-931 20*200 8.8	99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.	99037063	PLACA BASE SOP.TENSOR FBN-150-85
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	99037962	SOP.TENSOR FBN-150-95/105
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	99037963	SOP.TENSOR FBN-150-85

FRAME 180

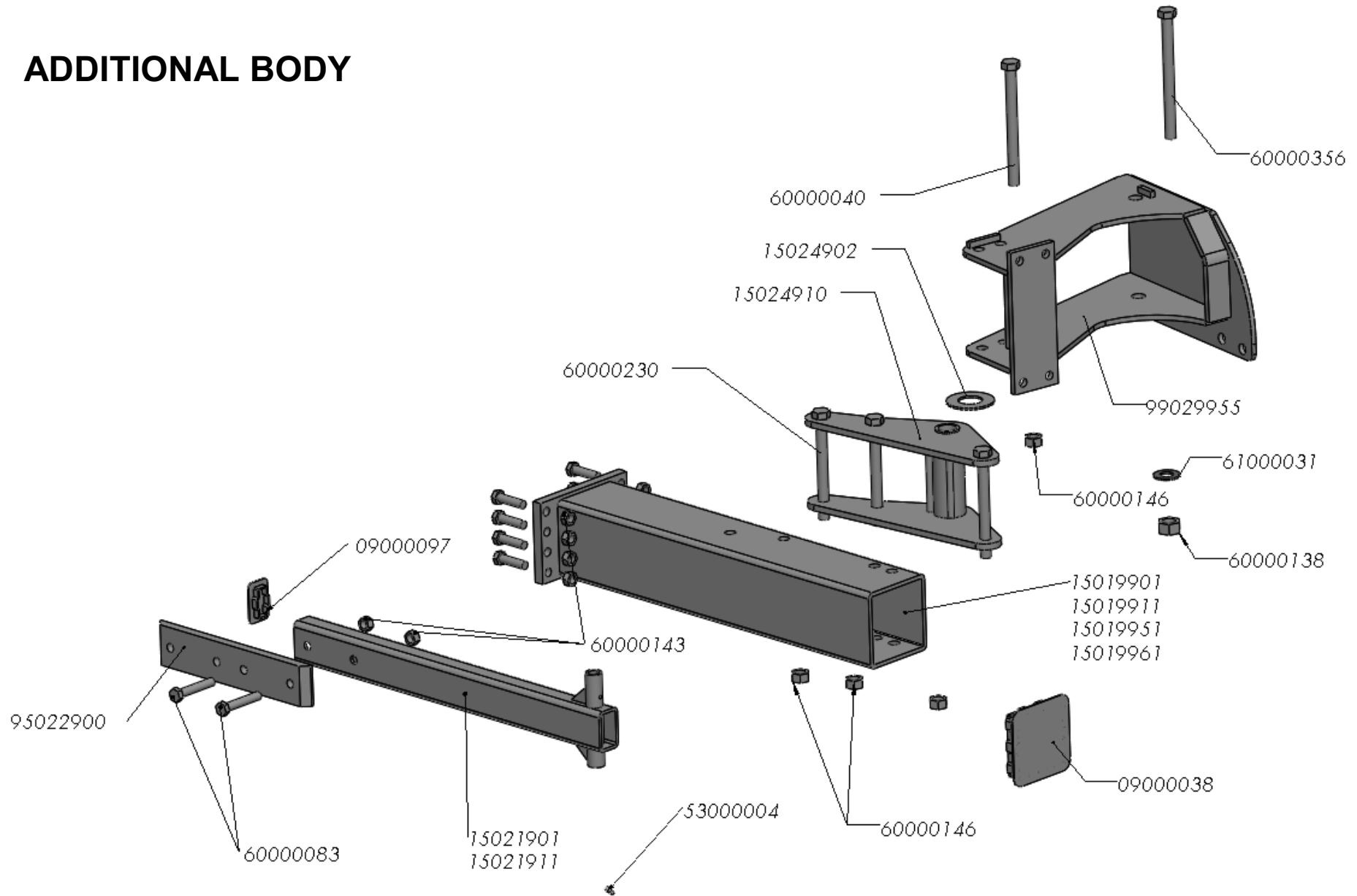


FRAME 180

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	REFERENCIA	DESCRIPCIÓN
9000038	TAPON GOMA 150*150*10mm.	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
9000097	TAPON GOMA 80* 50* 6mm.	60000230	TORN.EXAG.C/LAR.20*200 12.9
15020900	LLANTA TIRO BIELA SN (500/440)	60000281	TORN.ALLEN DIN-913 12* 14 12.9
15020901	ARAND.D=35,5mm.LLANTA TIRO BIELA SN	60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
15023906	PLACA SUP.SOP.GIRO BAST.SN-5A/6-95	61000007	ARAND.DIN-9021 10 ZINC.
15023909	BULON D=34,6*240mm.ROSC.TENSOR POST.SN + DACROMET	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15023912	CASQ.GIRO BAST.SN-150 C/VARILLAS	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
15023916	PLACA SUP.SOP.GIRO BAST.SN-5A/6-85	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15023926	PLACA SUP.SOP.GIRO BAST.SN-5A/6-105	64000103	TENSOR 1"1/4*650 C/HOR.30231-GRILL.30367 ZINC.
15023956	PLACA INF.SOP.GIRO BAST.SN-5A/6-95	64000104	TENSOR 1"1/4*1450 C/HOR.30231-GRILL.30367
15023966	PLACA INF.SOP.GIRO BAST.SN-5A/6-85	64000169	TENSOR 1"1/4*1650 C/HOR.30231-GRILL.30367
15023976	PLACA INF.SOP.GIRO BAST.SN-5A/6-105	90096950	MARCADOR TAJO 2P ZINC.
15024901	CASQ.D= 60/45,9/35*183mm.C/VAR.PORTAC.SN	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
15024902	ARAND.D=90/46*4mm.CEM.PORTAC.SN	95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
15024910	SOP.GIRO PORTACAMBAS SN	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
53000004	ENGRASADOR AC° DIN-71412 8*125	99005950	PLACA PORTACAMBA FBN
60000040	TORN.EXAG.DIN-931 20*230 8.8	99027950	SOP.ARTIC.CAMBA FBN
60000096	TORN.EXAG.DIN-933 20* 50 8.8	99028950	SOP.ARTIC.MARCADOR FBN
60000104	TORN.EXAG.DIN-931 20* 85 8.8	99029955	SOP.ARTIC.CAMBA/RDA.FBN-5A/6
60000112	TORN.EXAG.DIN-931 20*200 8.8	99037062	PLACA BASE SOP.TENSOR FBN-150-95/105
60000113	TORN.EXAG.DIN-931 20*210 8.8	99037063	PLACA BASE SOP.TENSOR FBN-150-85
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.	99037962	SOP.TENSOR FBN-150-95/105
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	99037963	SOP.TENSOR FBN-150-85
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.		

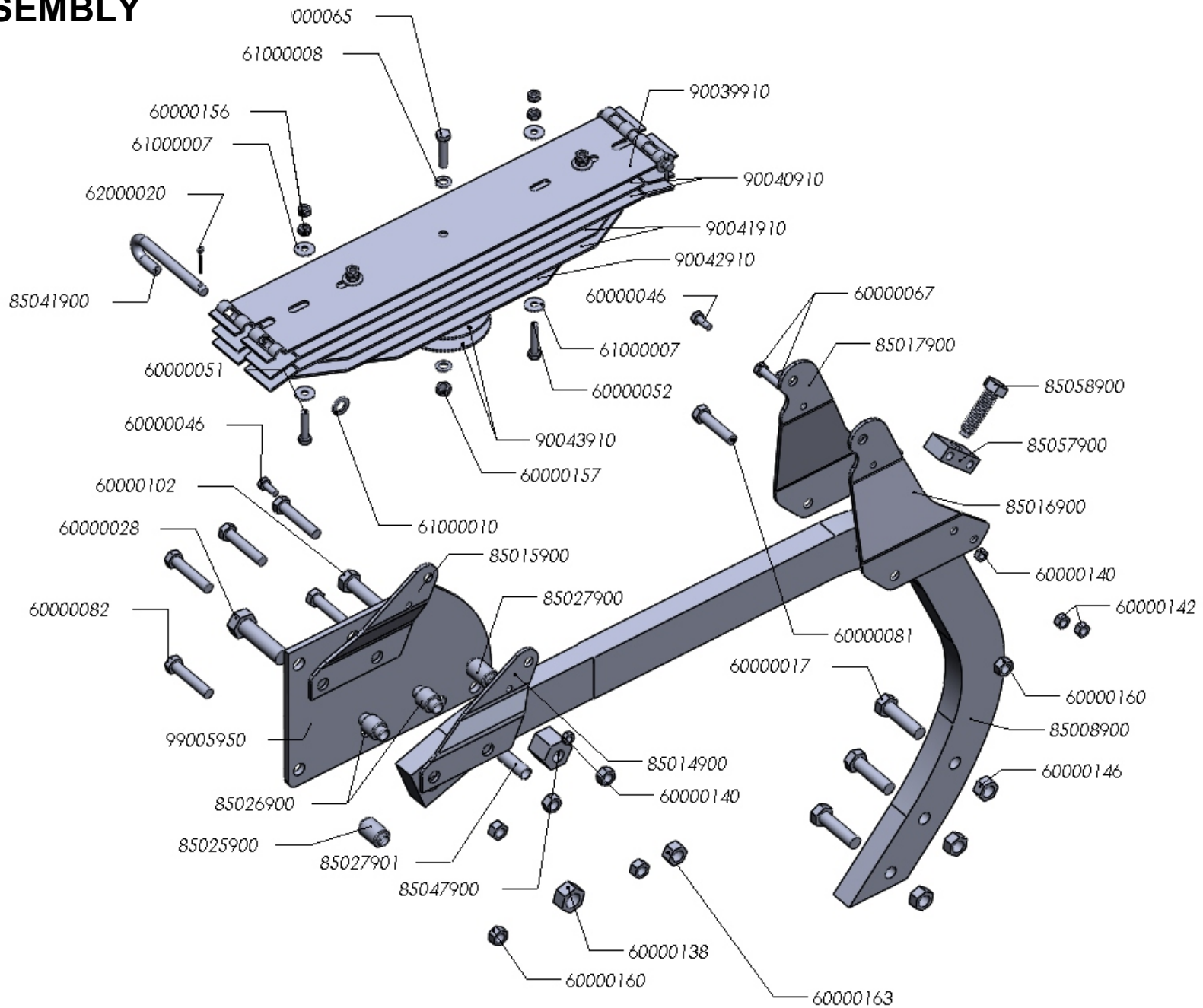
ADDITIONAL BODY



ADDITIONAL BODY

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

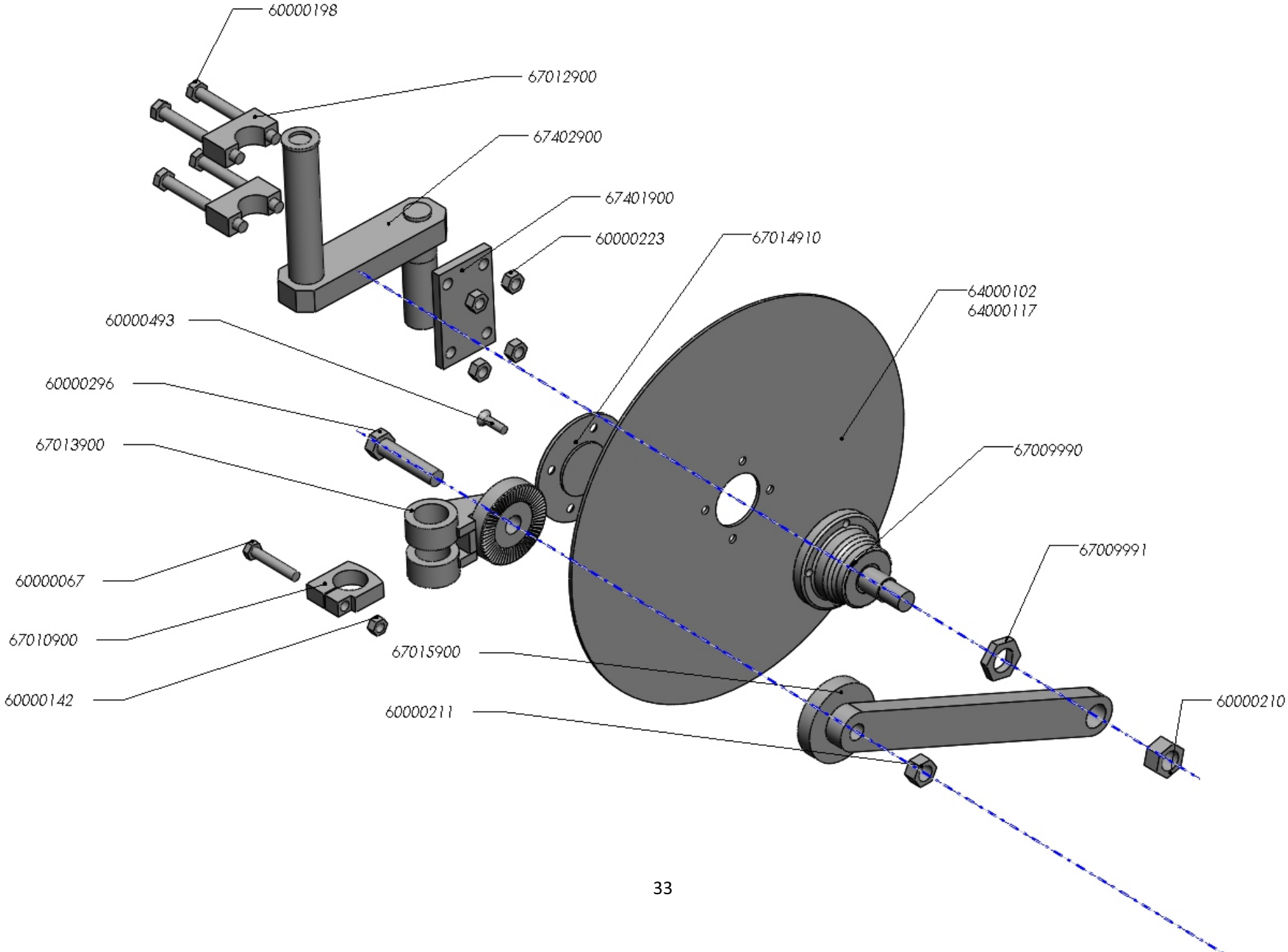
LEG ASSEMBLY



LEG ASSEMBLY

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.		

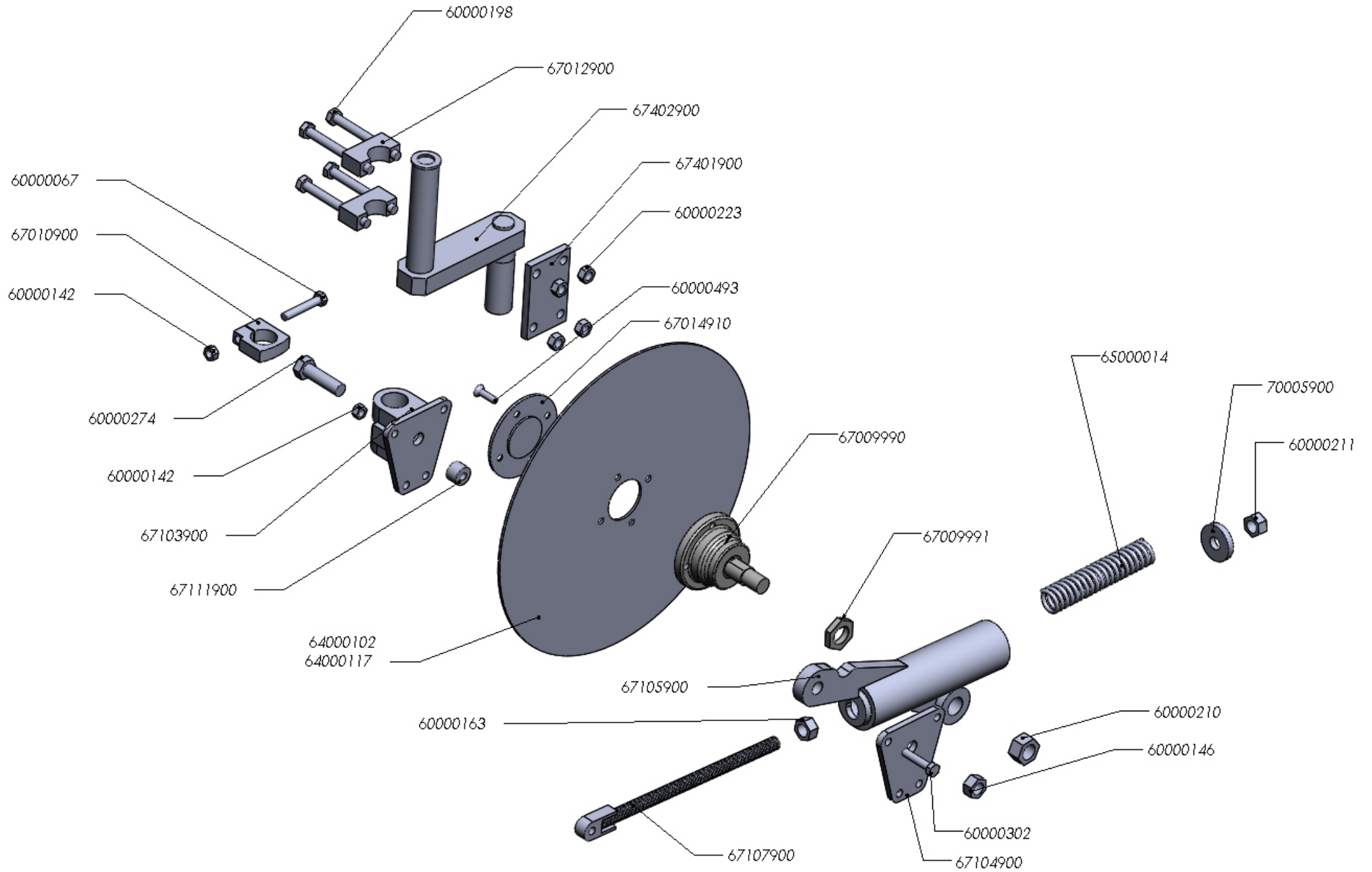
DISC COULTERS 20" FB



DISC COULTERS 20'' FB

REFERENCIA	DESCRIPCIÓN
53000004	ENGRASADOR AC° DIN-71412 8*125
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 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"
67401900	SOP.DISCOS FRBV/FB
67402900	MANIVELA DISCO FRBV/FB

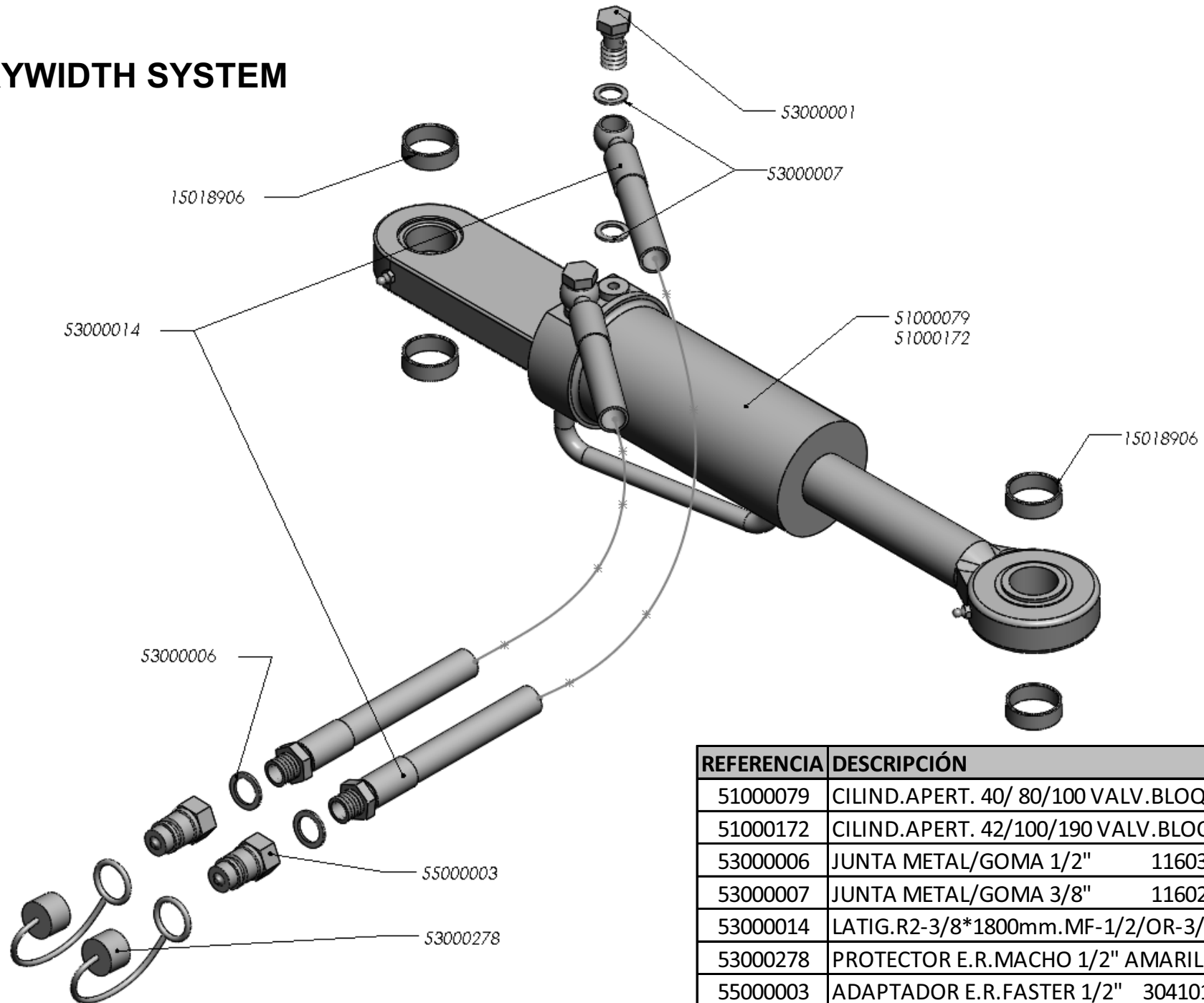
DISC COULTERS NON STOP FB



DISC COULTERS NON STOP FB

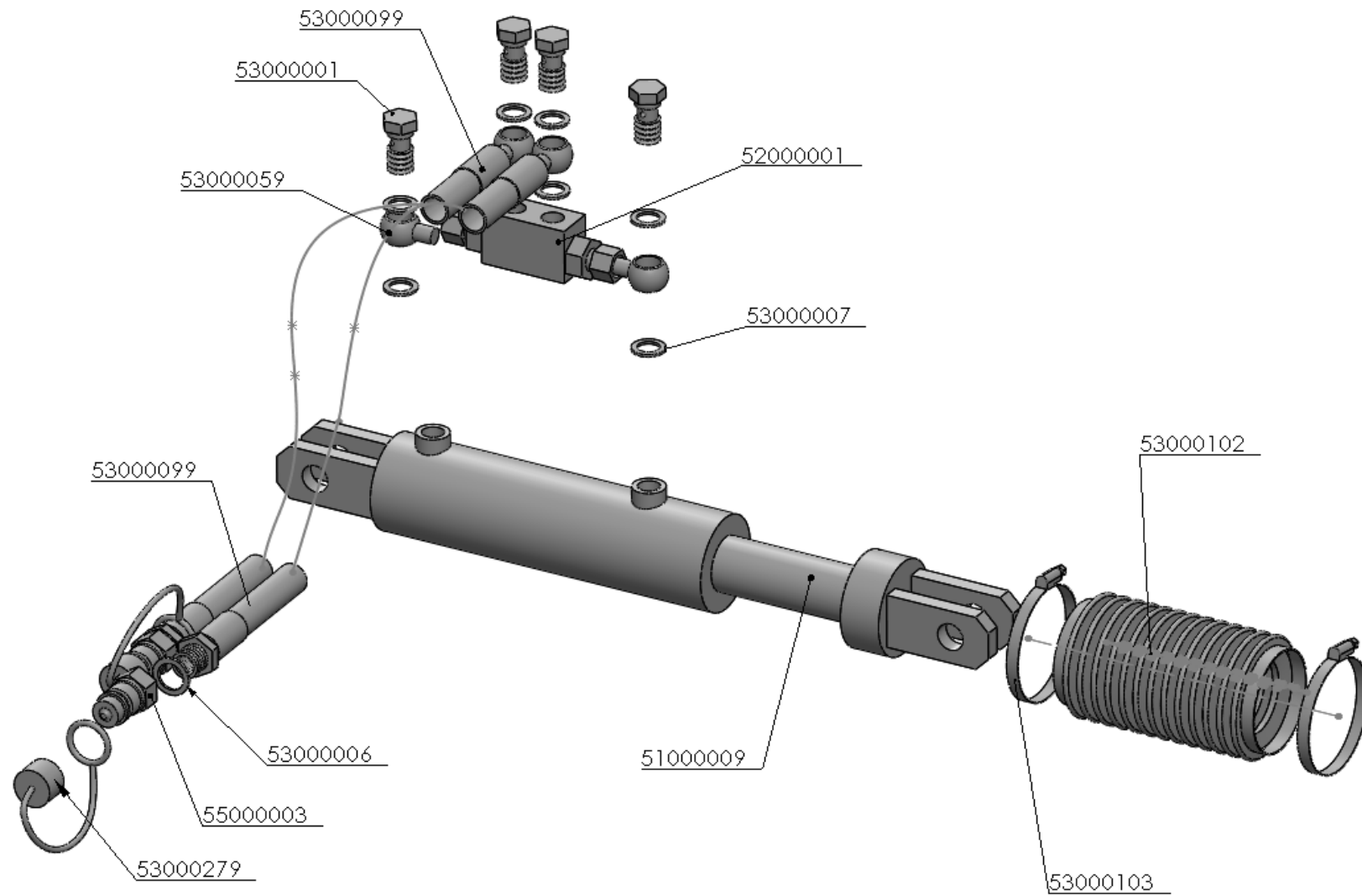
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53000004	ENGRASADOR AC° DIN-71412 8*125	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000003	TORN.ALLEN DIN-7991 10* 40 10.9 ZINC.	65000014	MUELLE COMPR.CILIN.275*57*12 LUZ-5
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	67009991	ARANDELA FRENO BUJE DISCOS
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	67010900	ABRAZ.REGULACION
60000163	TUER.EXAG.DIN-934 20 8.8	67014910	TAPA DISCOS (D/16)
60000198	TORN.EXAG.DIN-931 14*130 8.8 ZINC.	67103900	GIRO DISCOS NON-STOP
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	67104900	PLACA SOP.GIRO DISCOS NON-STOP
60000211	TUER.AUTO.DIN-985 20 8.8	67105900	BRAZO DISCOS NON-STOP
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67107900	CORREDERA MUELLE DISCOS NON-STOP
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	67111900	CASQ.D= 30/12,5*21mm.SEP.SOP.DISCOS NON-STOP
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.
64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68		

VARYWIDTH SYSTEM



REFERENCIA	DESCRIPCIÓN
5100079	CILIND.APERT. 40/ 80/100 VALV.BLOQ.
51000172	CILIND.APERT. 42/100/190 VALV.BLOQ.
5300006	JUNTA METAL/GOMA 1/2" 11603
5300007	JUNTA METAL/GOMA 3/8" 11602
5300014	LATIG.R2-3/8*1800mm.MF-1/2/OR-3/8
53000278	PROTECTOR E.R.MACHO 1/2" AMARILLO 5029-4PY
5500003	ADAPTADOR E.R.FASTER 1/2" 30410108
15018906	CASQ. D=45/35*8 SEP.APERT.CICRO

HYDRAULIC FIRST BODY ADJUSTMENT

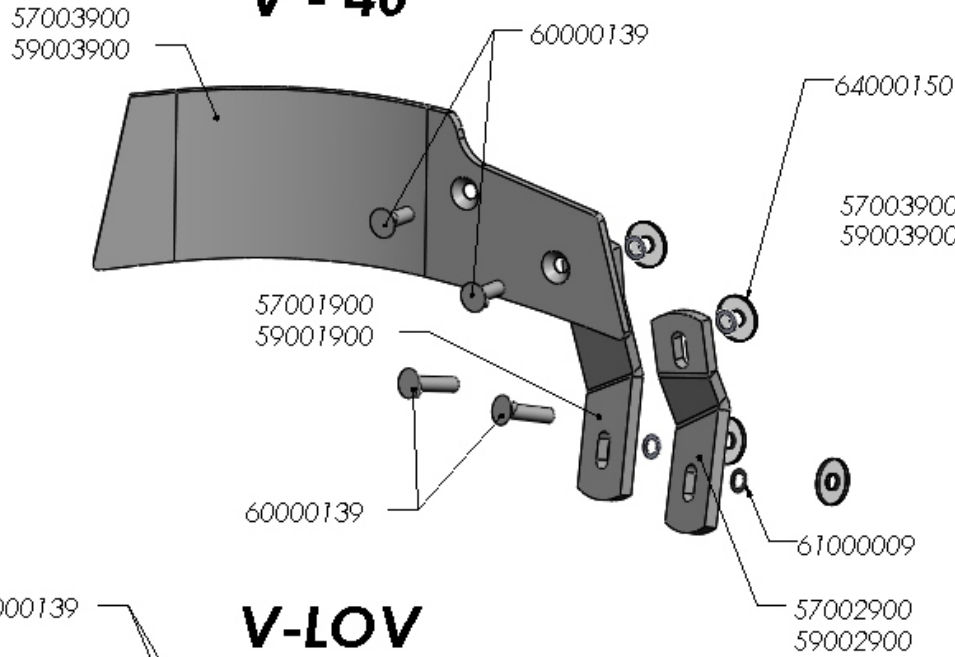


HYDRAULIC FIRST BODY ADJUSTMENT

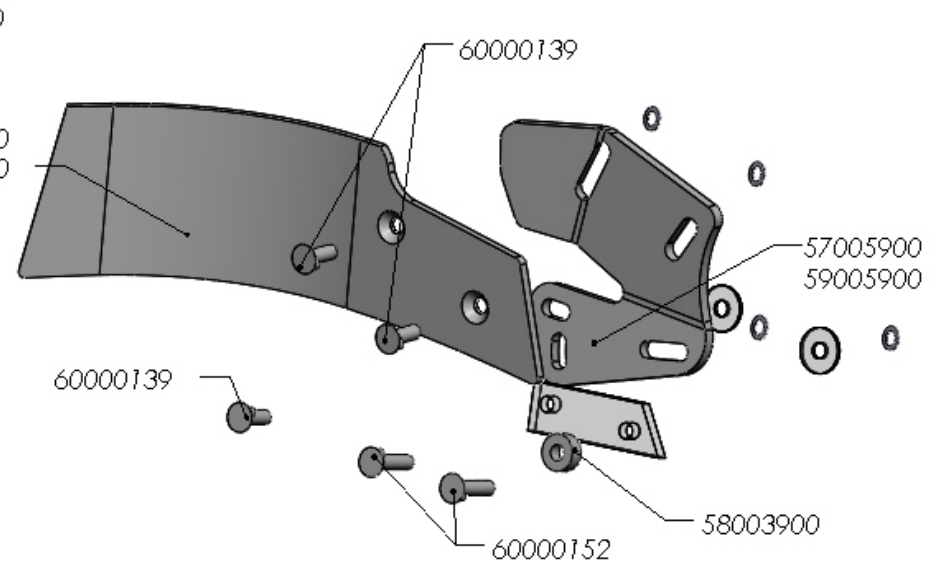
REFERENCIA	DESCRIPCIÓN
51000009	CILIND.DESPL.C/HORQ.60/30/120
52000001	VALV.BLOQUEO ZINC.12 VBD38
53000001	TORNILLO SIMPLE 3/8 4022
53000006	JUNTA METAL/GOMA 1/2" 11603
53000007	JUNTA METAL/GOMA 3/8" 11602
53000059	ESFERICO 3/8" TUBO 12mm.CORTO 4002E
53000081	SUPLEMENTO 3/8" 4092
53000099	LATIG.R2-3/8*1500mm.MF-1/2/OR-3/8
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

COVER BOARDS

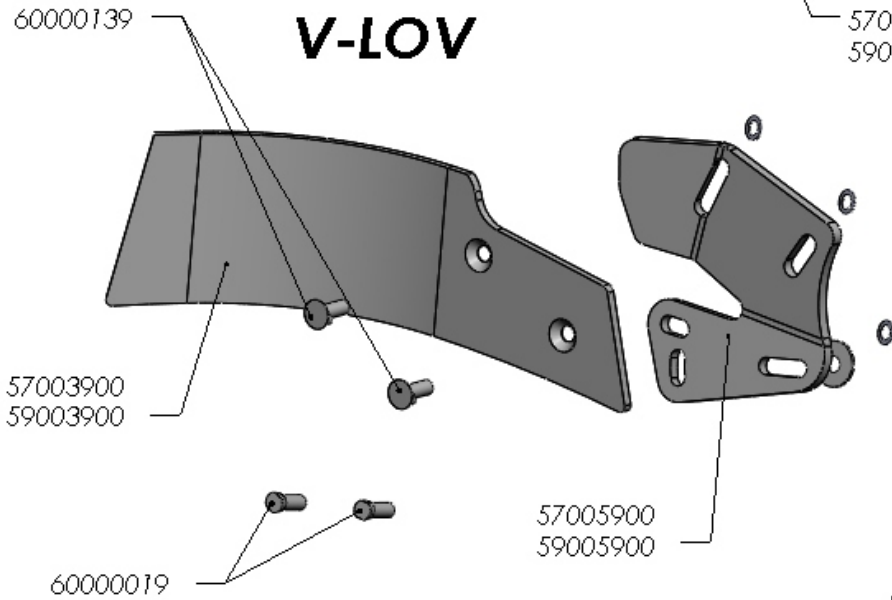
V - 40



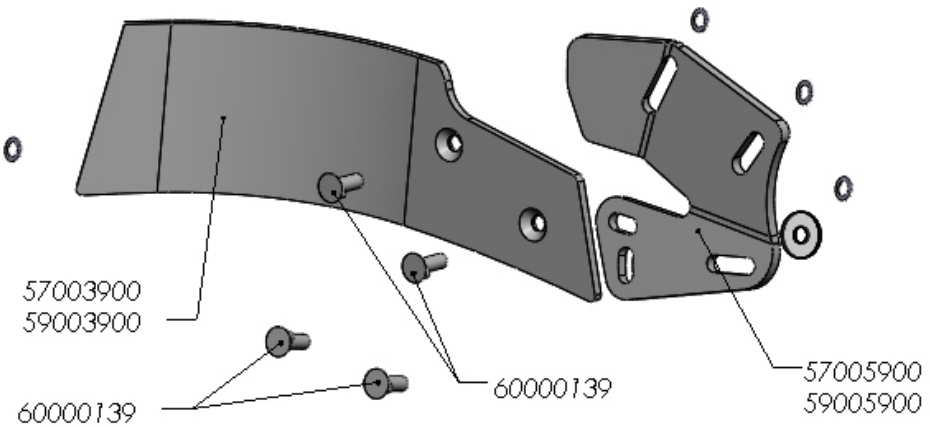
V-34 / V-74



V-LOV



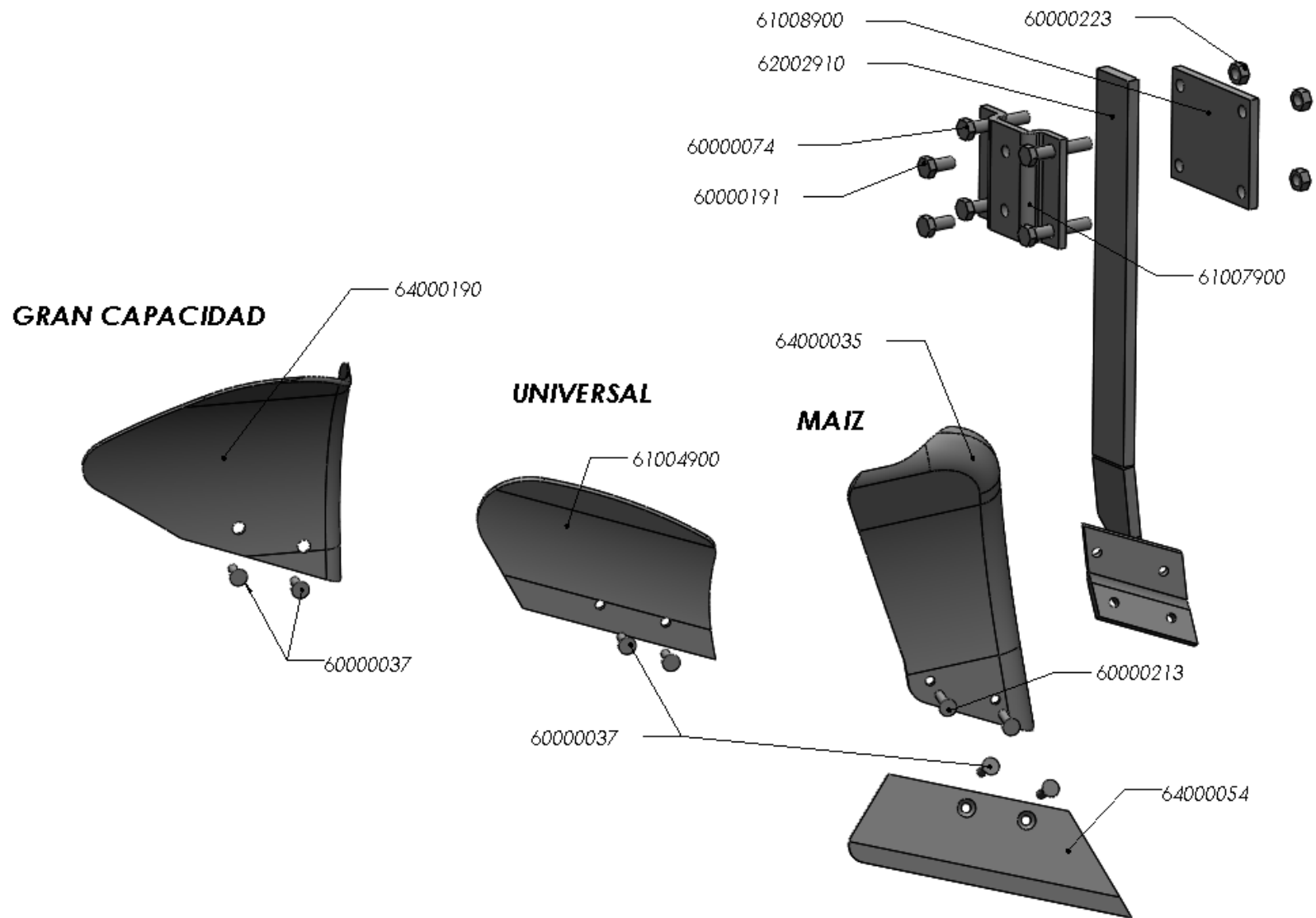
V-90 / V-97



COVER BOARDS

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

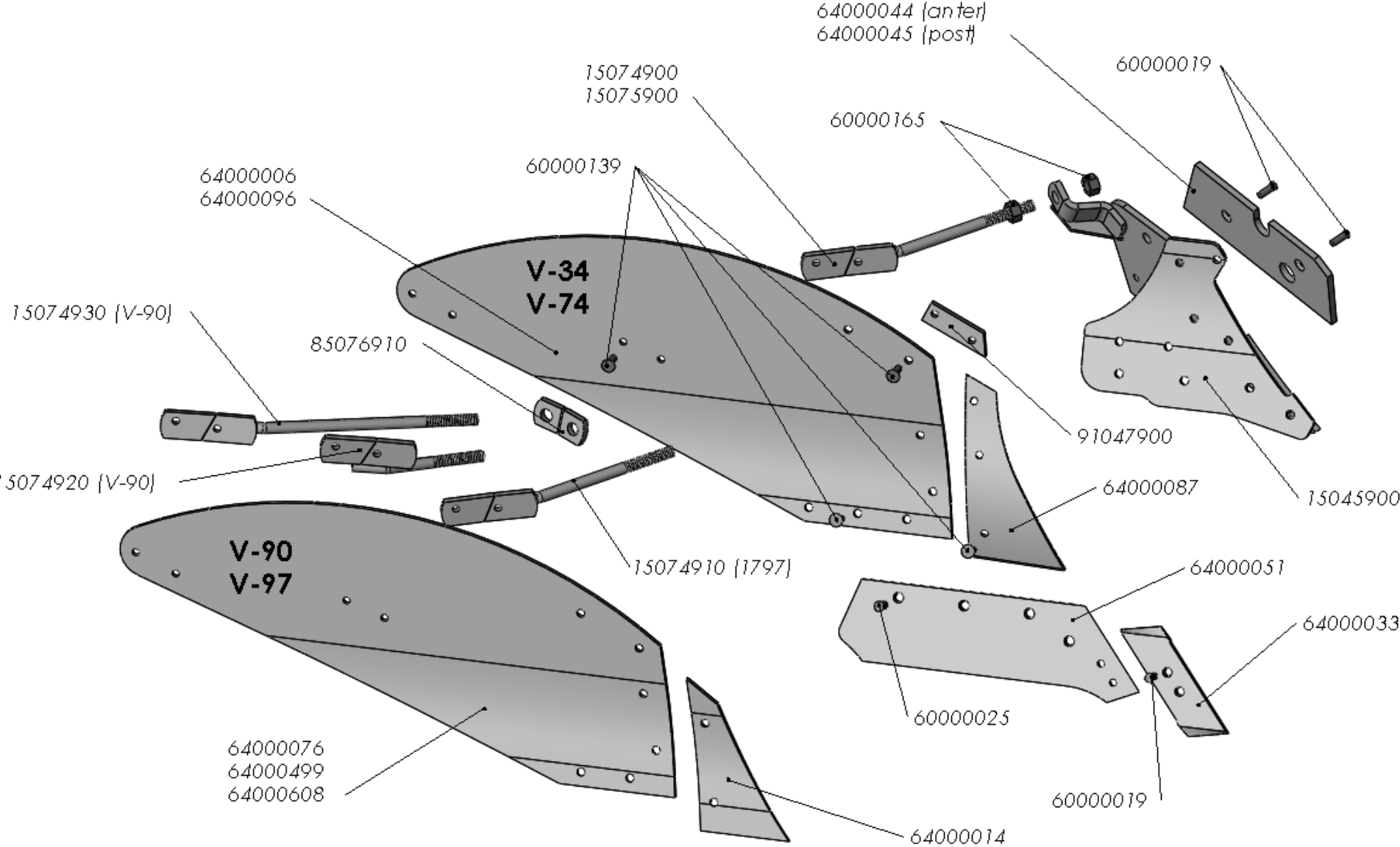
SKIMMERS



SKIMMERS

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

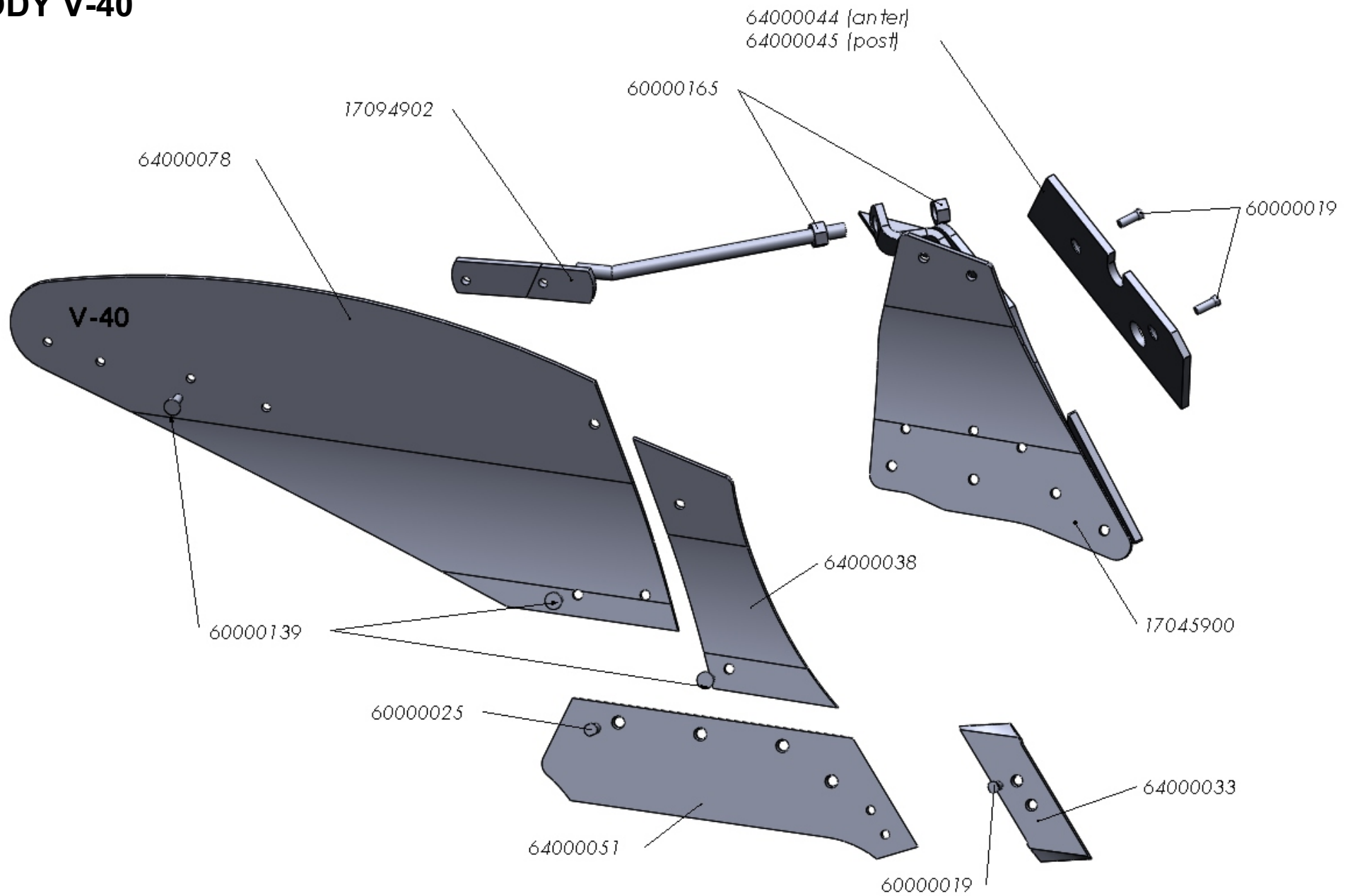
BODIES V-97 / V-31 / V-90 / V-74



BODIES V-97 / V-31 / V-90 / V-74

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15045900	PORTA-REJAS DCH. V-97/ V-34 (D/04)	64000033	PUNTA REJA 1365-D 65x12mm.
15074900	TENSOR V-34 CORTO DCH.(D/04)	64000044	COSTANERA CORTA 2338-CAV-BAR
15074910	TENSOR V-97 CORTO DCH.(D/04)	64000045	COSTANERA LARGA 2339-CAV-BAR
15074920	TENSOR V-90 CORTO DCH.	64000051	REJA 1434-17-D-CAV
15074930	TENSOR V-90 LARGO DCH.	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)
64000006	VERTEDERA CEMENT. V-34-D-CAV	85076910	SOP.TENSOR LARGO V-90
64000014	COMPLEMENTO BORO 1798-D-CAV	91047900	PLETINA UNION VERT./COMPL. V-34

BODY V-40



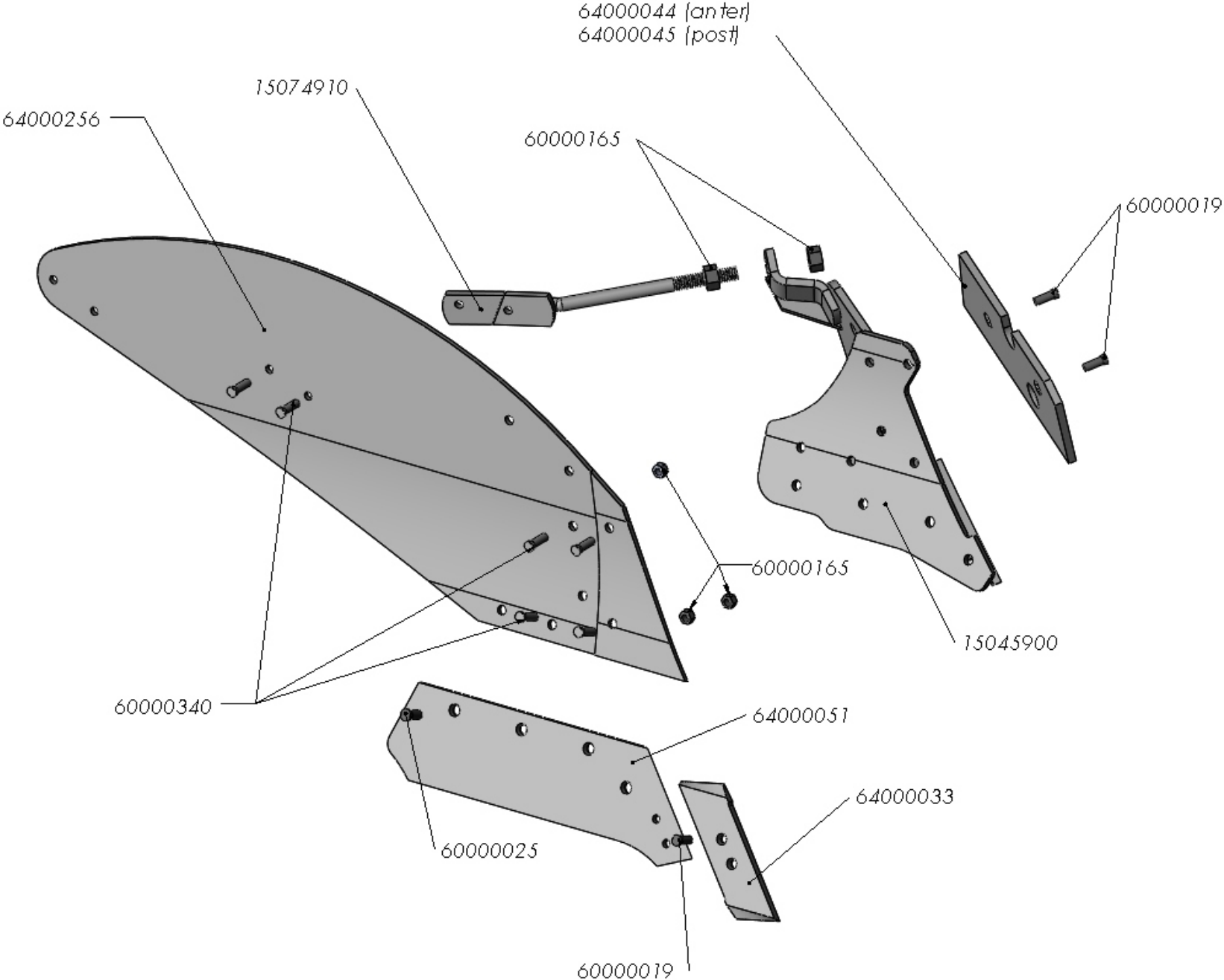
BODY V-40

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

BODY LOV

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000014	TORN.ARADO C/OV/934 12*33 12.9	64000172	PUNTA REJA D LOV 15mm.
60000019	TORN.ARADO C/OV/934 12*36 12.9	64000179	REJA 20"D LOV
60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.	64000453	LAMINA 2-D (D/09-11)
60000098	TORN.EXAG.DIN-931 20* 60 8.8	64000455	LAMINA 3-D (D/09-11)
60000100	TORN.EXAG.DIN-931 20* 70 8.8	64000457	LAMINA 4-D (D/09-11)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	64000573	COSTANERA XL D/I LOV
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000575	PUNTA REJA D LOV REVERS.
60000227	TORN.ALLEN DIN-7991 20* 60 12.9	64000585	LAMINA 1-D-XL REVERS.
60000228	TORN.ALLEN DIN-7991 20* 70 12.9	64100130	SOP.TENSOR D LOV RFZD.
60000465	TORN.ARADO C/OV/934 10*33 12.9	64100181	TENSOR CORTO RFZD.LOV
61000008	ARAND.DIN-125 12 ZINC.	64100182	TENSOR LARGO RFZD.LOV
64000128	COMPLEMENTO D LOV	85008910	CAMBA FRBV/FB P/CUERPO LAM.
64000136	COSTANERA D/I LOV	90048900	PORTA-REJAS DCH.LOV
64000137	PUNTA COSTAN.D LOV	90050900	PLETINA UNION VERT-REJA LOV

V- PLASTIC

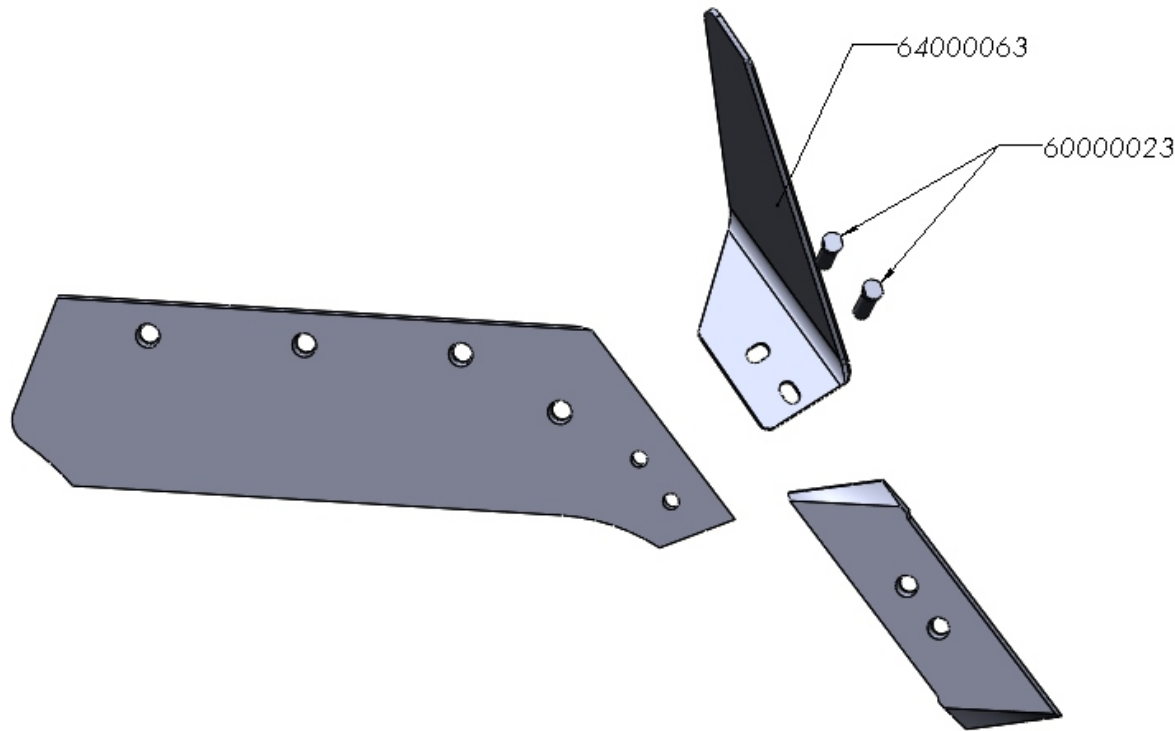


V- PLASTIC

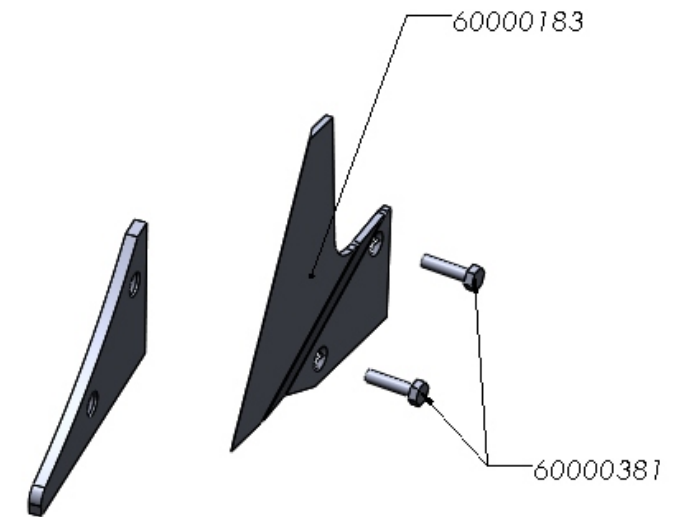
REFERENCIA	DESCRIPCIÓN
64000044	COSTANERA CORTA 2338-CAV-BAR
64000045	COSTANERA LARGA 2339-CAV-BAR
60000019	TORN.ARADO C/OV/934 12*36 12.9
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.
15045900	PORTA-REJAS DCH.1797/1834 (D/04)
15074910	TENSOR 1797 CORTO DCH.(D/04)
64000256	VERTEDERA PLASTIC.D A73286M (1797)
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

SUPL. CUTTING SHARE

CORTANTE DE REJA
V-40/ V-97/V-31/ V-90/ V-74 Y V-PLÁSTICO

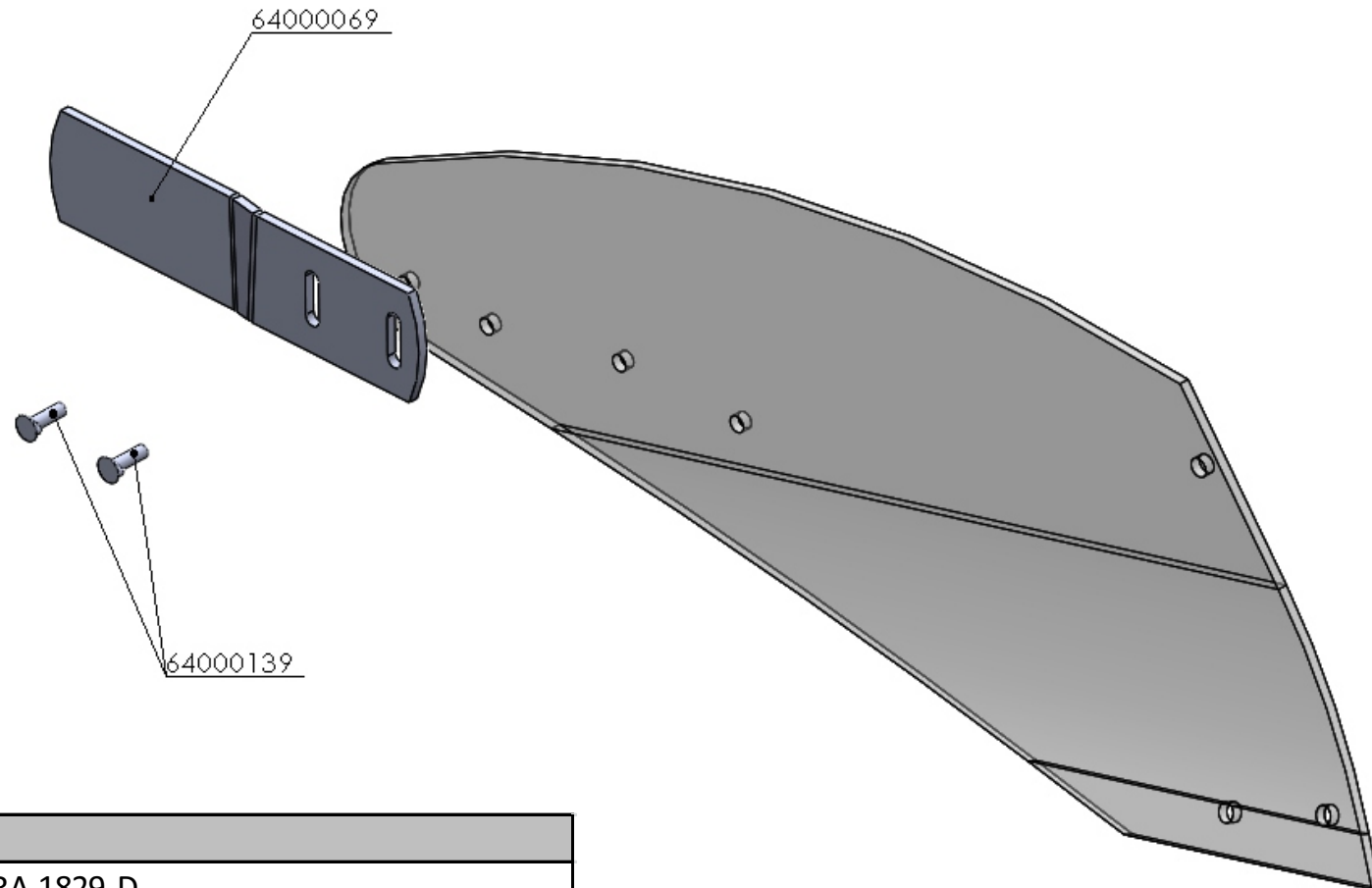


CORTANTE DE REJA
VERTEDERA LÁMINAS



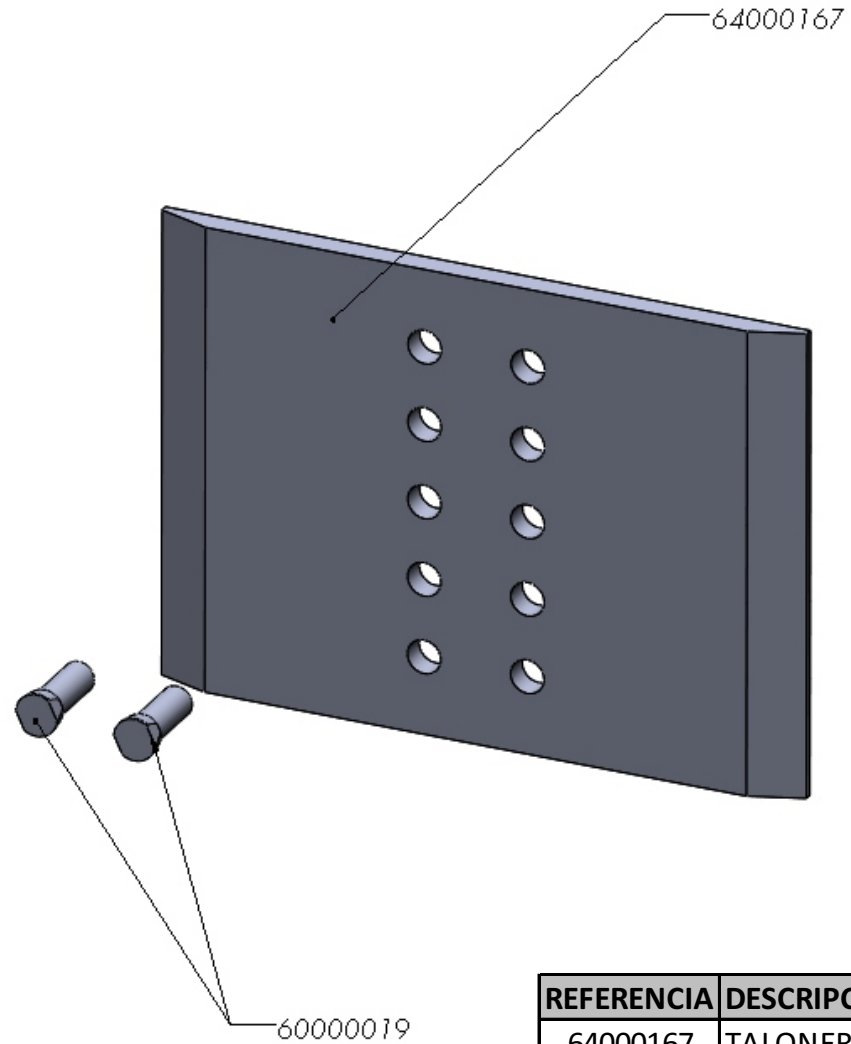
REFERENCIA	DESCRIPCIÓN
60000183	TORN.EXAG.DIN-931 14* 90 8.8 ZINC.
60000381	TORN.ARADO DIN-608/934 10*40 8.8
64000063	CORTANTE 1464-D
60000023	TORN.ARADO C/OV/934 12*42 12.9

SUPL. EXTENSION MOULBOARD



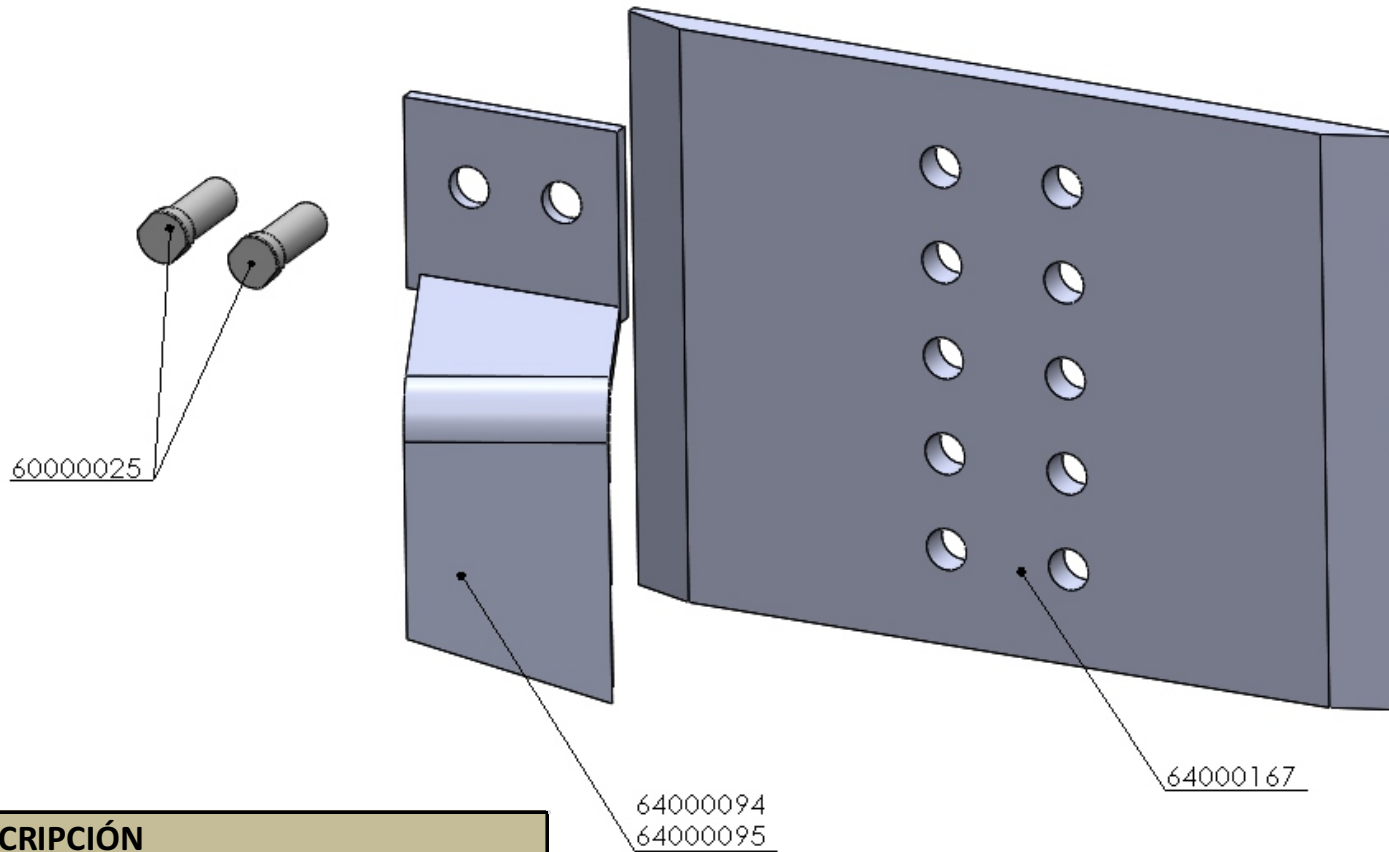
REFERENCIA	DESCRIPCIÓN
64000069	COLA VERTEDERA 1829-D
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.

LANDSLIDE EXTENSION



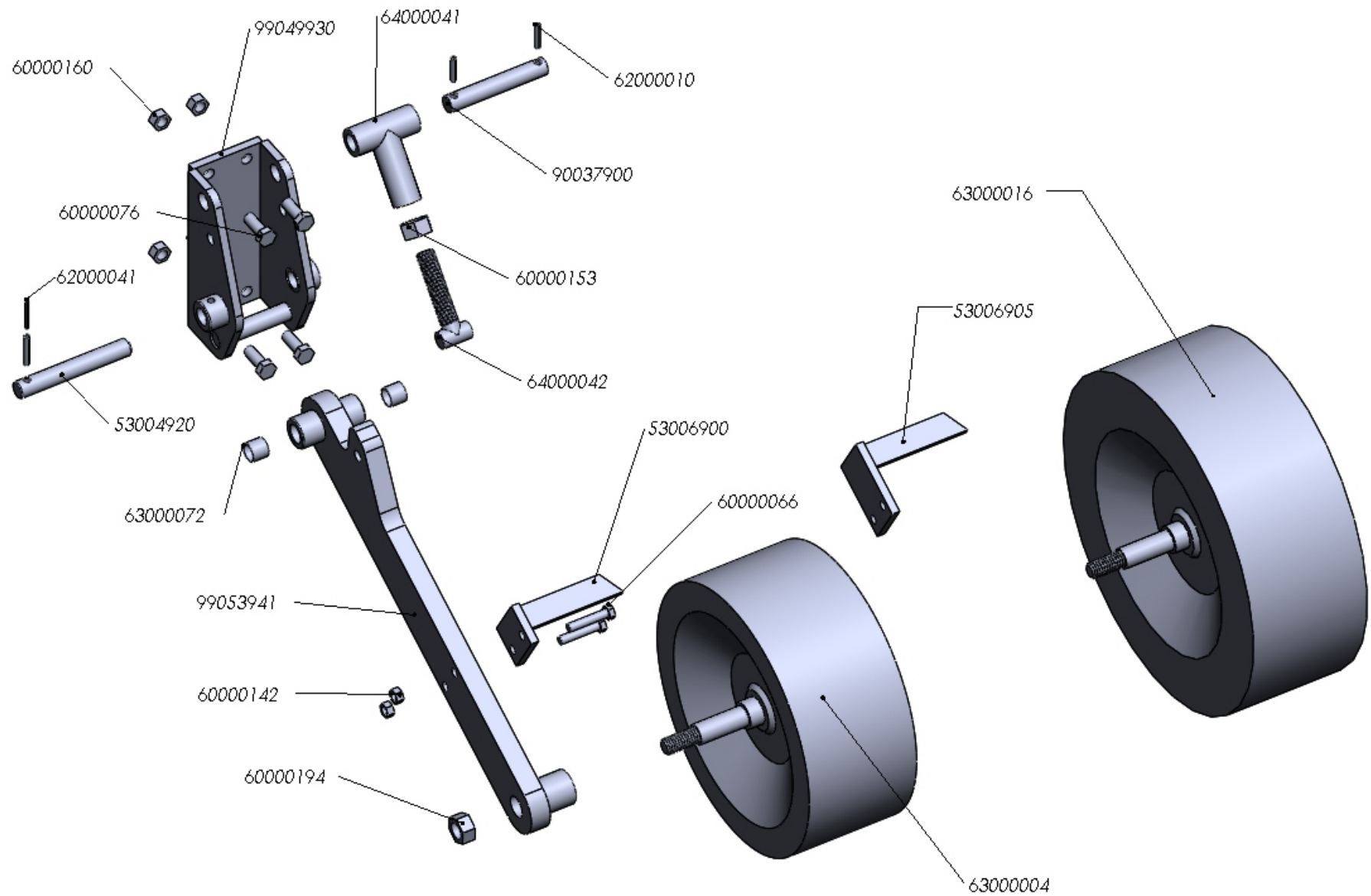
REFERENCIA	DESCRIPCIÓN
64000167	TALONERA 2357
60000019	TORN.ARADO C/OV/934 12*36 12.9

SUPL. EXPANDER GROOVE



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

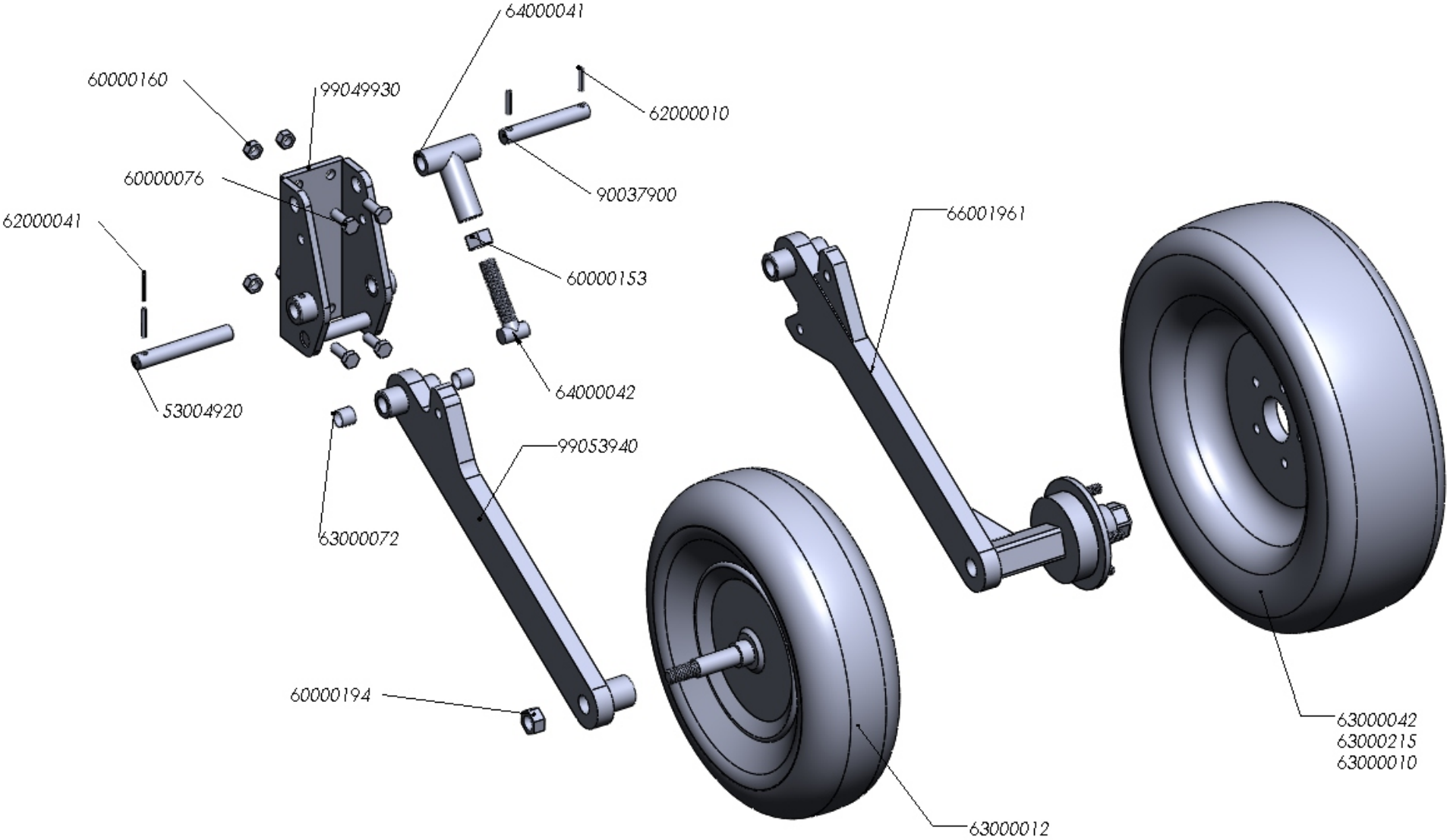
METALIC WHEEL



METALIC WHEEL

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)

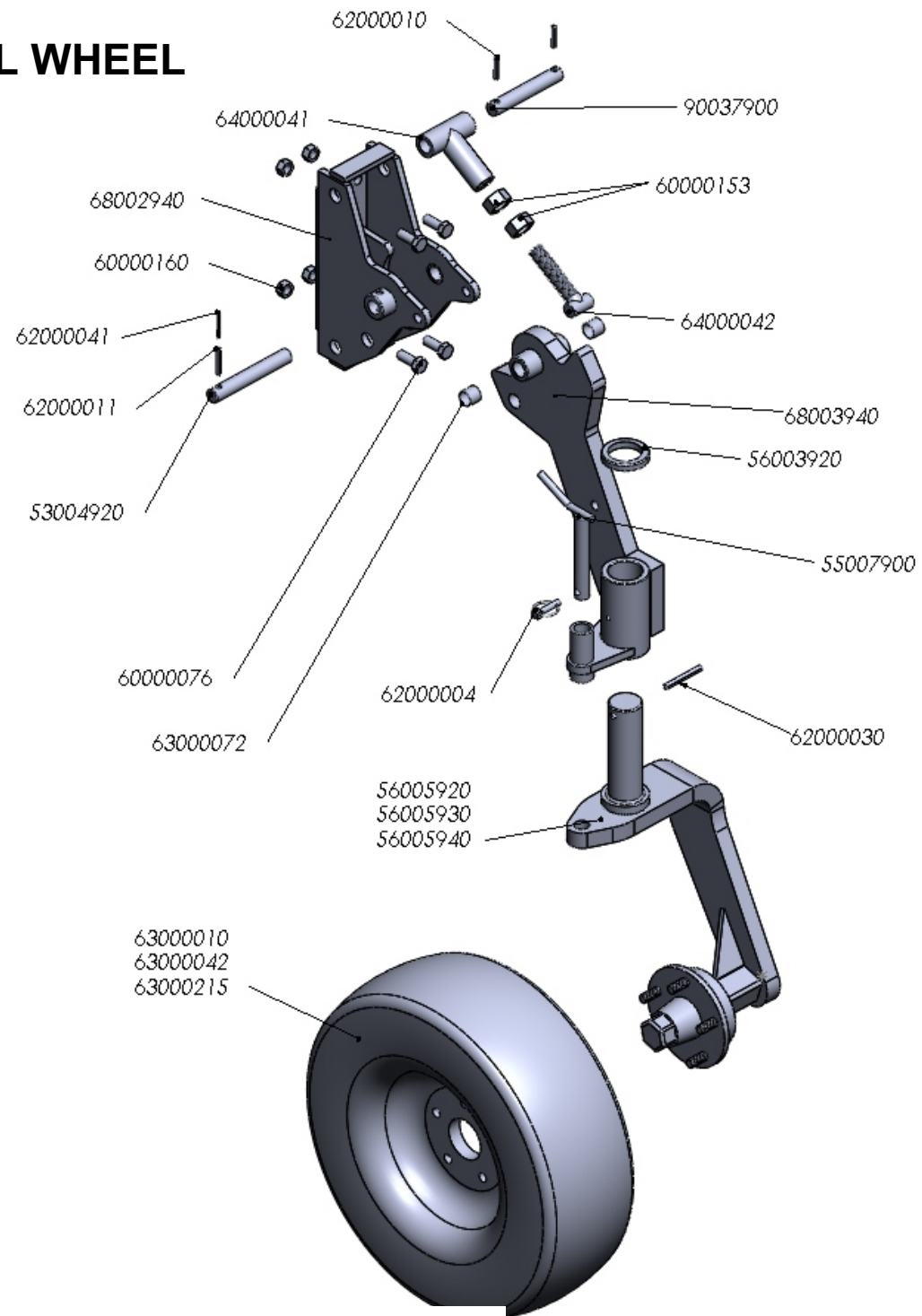
PNEUMATIC WHEEL



PNEUMATIC WHEEL

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)

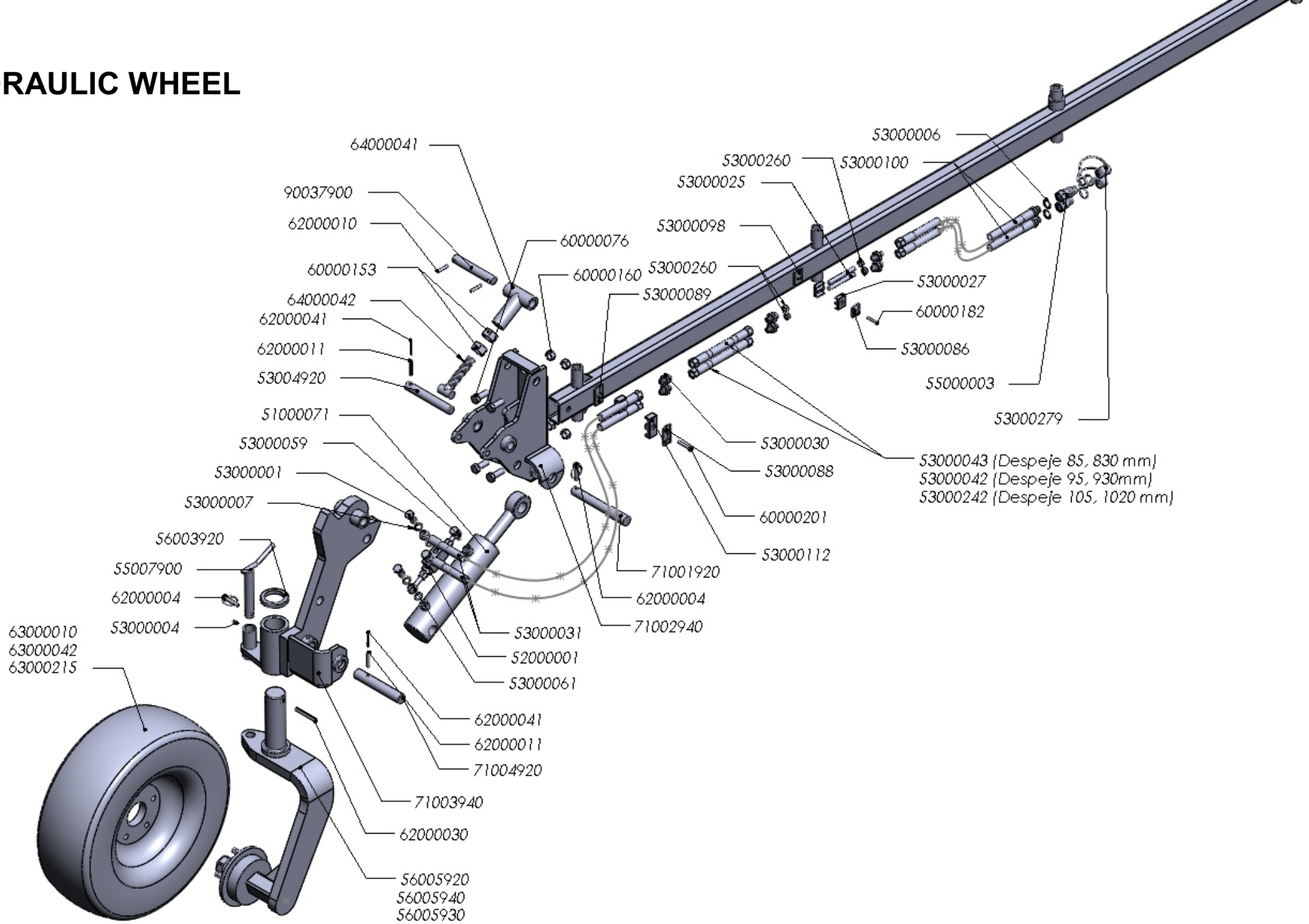
TRANSPORT CONTROL WHEEL



TRANSPORT CONTROL WHEEL

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.

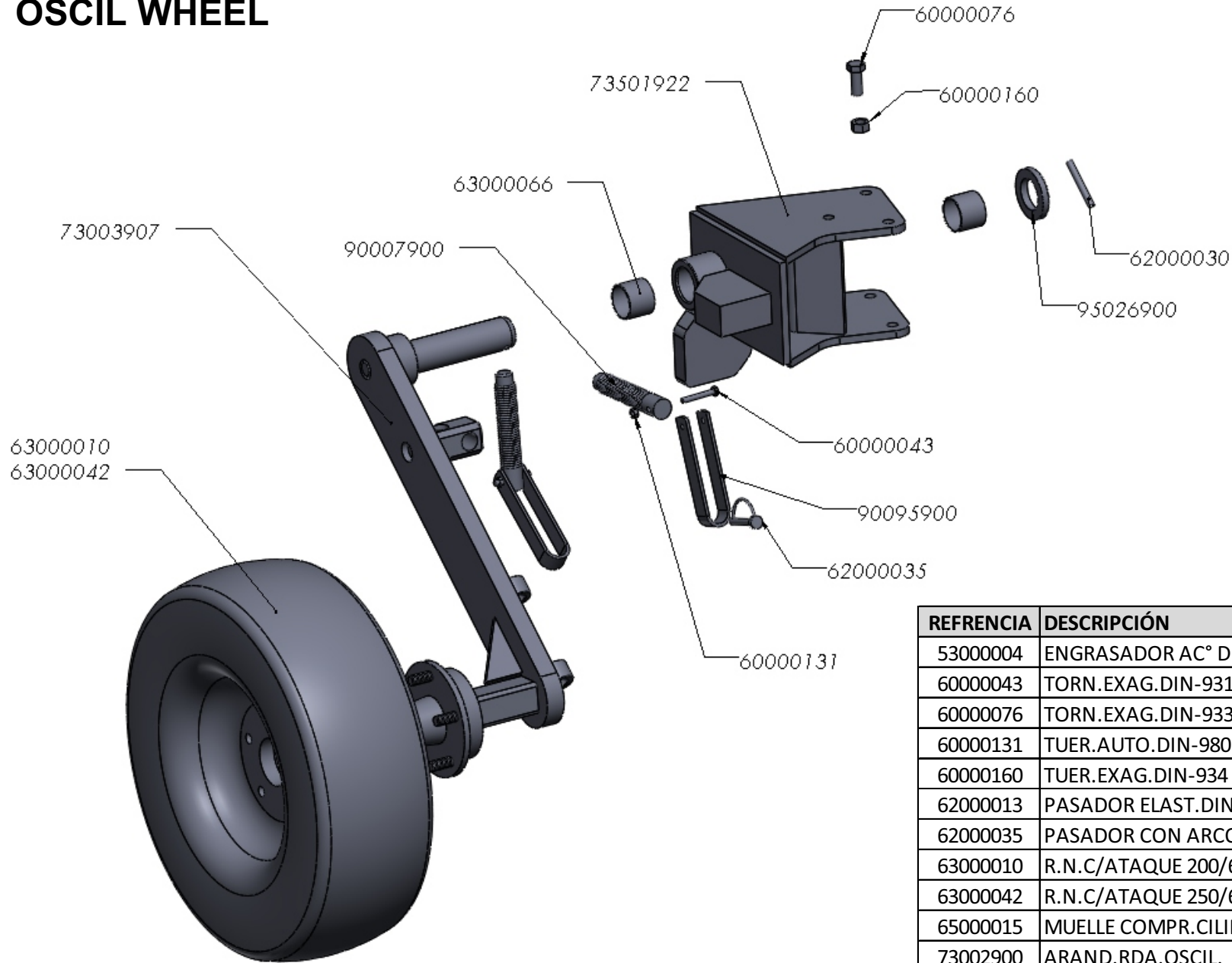
HYDRAULIC WHEEL



HYDRAULIC WHEEL

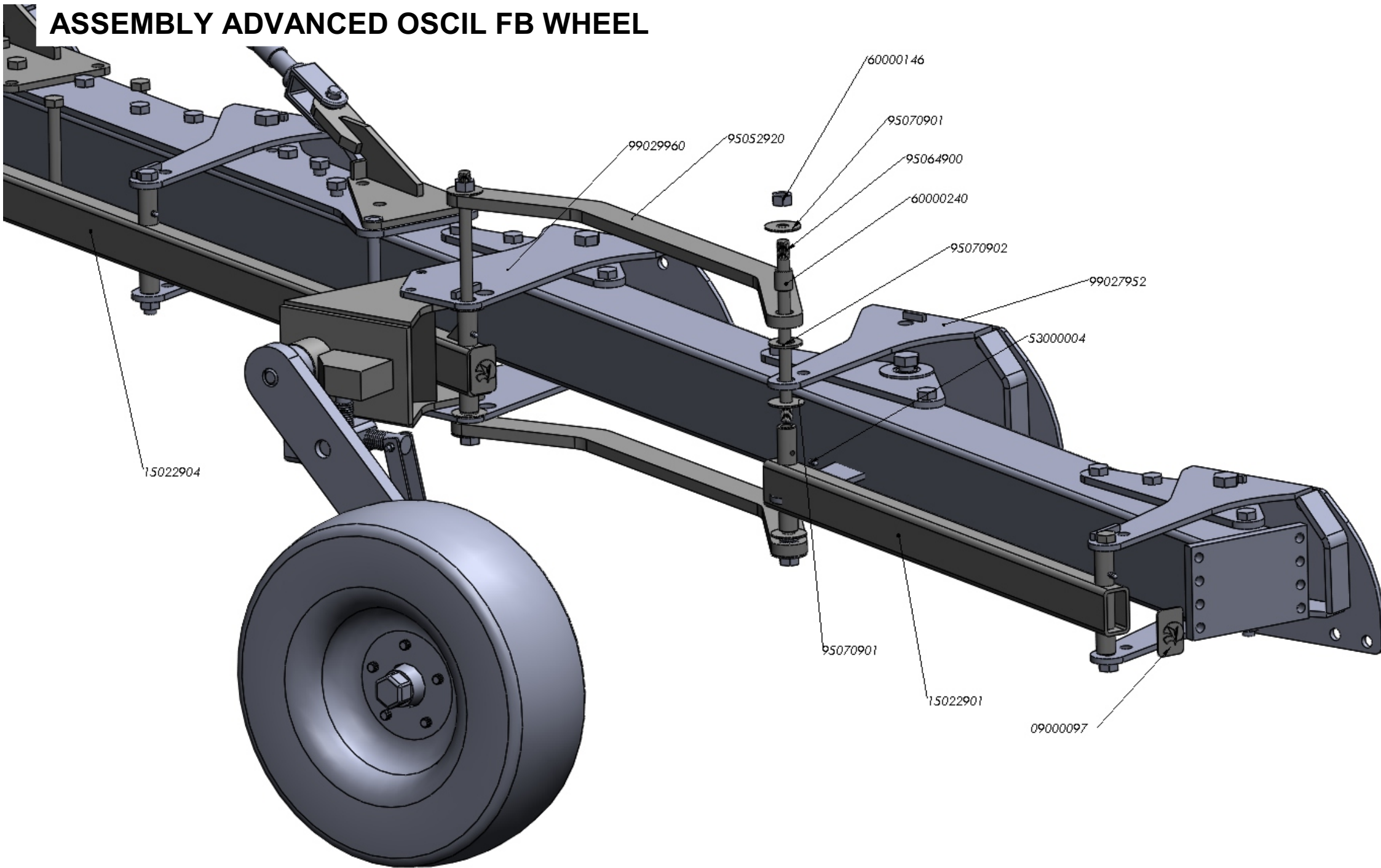
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000071	CILIND.RDA.C/T FB 40/80/160 RAL-6029	56003920	ARAND.P/EJE RDA.C/T
52000001	VALV.BLOQUEO ZINC.12 VBD38	56005920	HORQ.RDA.C/T AV (608*205) (D/03)
53000001	TORNILLO SIMPLE 3/8 4022	56005930	HORQ.RDA.C/T AV (685*260)
53000004	ENGRASADOR AC° DIN-71412 8*125	56005940	HORQ.RDA.C/T AV (686*304)
53000006	JUNTA METAL/GOMA 1/2" 11603	60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
53000007	JUNTA METAL/GOMA 3/8" 11602	60000153	TUER.EXAG.DIN-934 1"SAE 8.8 ZINC.
53000025	M.TUBO ACERO 12*9mm.ZINC..	60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.
53000027	ABRAZ.DOBLE D=12mm. 1D12PP	60000182	TORN.EXAG.DIN-931 6* 35 8.8 ZINC.
53000030	UNION TUBO/TUBO 12mm. G12-L	60000201	TORN.EXAG.DIN-931 8* 45 8.8 ZINC.
53000031	LATIG.R2-3/8*1300mm.OR-3/8/TL-18	62000004	PASADOR ANILLA 10 ZINC.
53000042	LATIG.R2-3/8* 930mm.TL-18/TL-18	62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
53000059	ESFERICO 3/8" TUBO 12mm.CORTO 4002E	62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
53000061	ESFERICO 3/8" TUBO 12mm.LARGO	62000041	PASADOR ELAST.DIN-1481 5* 50
53000086	PLACA RFZO.AB.DOBLE 12 GD1D	62000041	PASADOR ELAST.DIN-1481 5* 50
53000088	PLACA RFZO.AB.DOBLE 20 GD3D	63000010	R.N.C/ATAQUE 200/60*14,5"-10PR RAL-6029
53000089	PLACA SOLDAR AB.DOBLE 20 SP3D	63000042	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-6029
53000098	PLACA SOLDAR AB.DOBLE 12 SP1D	63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
53000100	LATIG.R2-3/8*1800mm.E-12/MF-1/2	64000041	SOP.TOPE MOVIL ZINC.
53000112	ABRAZ.DOBLE D=20mm. 1D20PP	64000042	TOPE MOVIL TRATADO + ZINC.
53000242	LATIG.R2-3/8*1020mm.TL-18/TL-18	71001920	BULON D=29,7/25*210mm.TOPE/CIL..RDA.C/T.HID.(D/03)
53000260	TUERCA M18*1,5 C/BICONO D12L M12-L PSR12LX	71002940	SOP.RDA.C/T M.HIDR.(D/05)
53000279	PROTECTOR E.R.MACHO 1/2" VERDE 5029-4PG	71003940	BRAZO RDA.C/T M.HIDR.(D/05)
53004920	BULON D=25*175mm.BRAZO RDA.(D/03)	71004920	BULON D=29,7*177mm.CILIND.RDA.C/T M.HIDR.(D/03)
55000003	ADAPTADOR E.R.FASTER 1/2" 30410108	90037900	BULON D=25*154mm.TOPE RDA.
55007900	BULON D=25*160mm.TRANSP./CONTROL RDA.C/T		

OSCIL WHEEL



REFERENCIA	DESCRIPCIÓN
53000004	ENGRASADOR AC° DIN-71412 8*125
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.
62000013	PASADOR ELAST.DIN-1481 8* 60 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
65000015	MUELLE COMPR.CILIND.110*40*5 ZINC.
73002900	ARAND.RDA.OSCIL.
73003907	BRAZO RDA.NEUM. OSCIL.MF/LN (608*205/685*260)
73501922	SOP.RDA.OSCIL.FBN
90007900	HUSILLO TOPE 185mm.
90095900	MANILLA TOPE ZINC.

ASSEMBLY ADVANCED OSCIL FB WHEEL



ASSEMBLY ADVANCED OSCIL FB WHEEL

REFERENCIA	DESCRIPCIÓN
9000097	TAPON GOMA 80* 50* 6mm.
15022901	BIELA SN-1-95 C/RDA.C/T ADEL.
15022904	BIELA SN-4-95 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



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