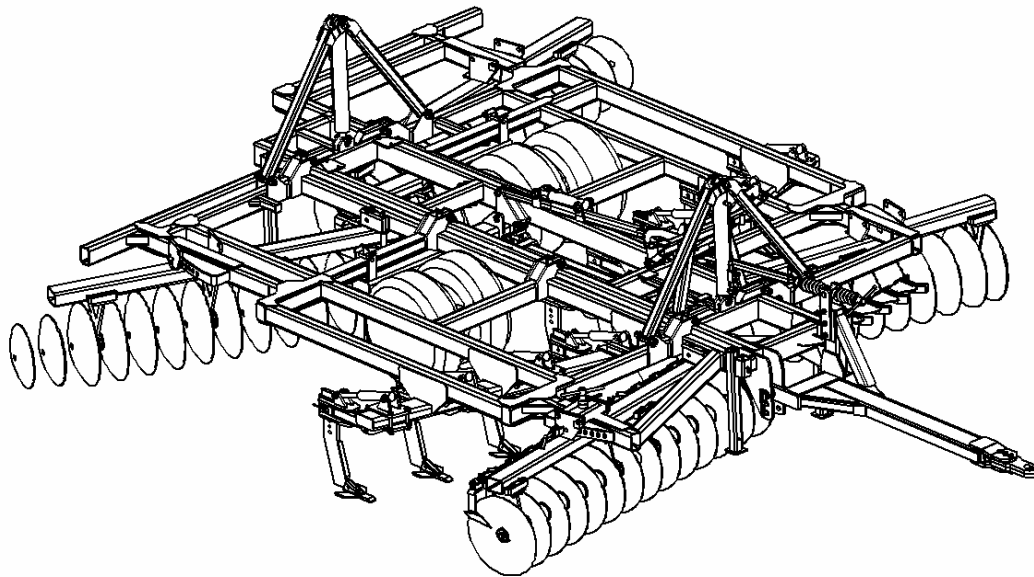


# QUIVOGNE

## TINEMASTER



### Operating, Maintenance & Spare Parts Book

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## MACHINE DETAILS

Model	
Serial Number	
Date Of Manufacture	

## **OPERATING INSTRUCTIONS**

Care should be taken to follow the procedure below; failure to do so may result in personal injury and or damage to the machine.

Larger Tinemaster Disc Harrows fold hydraulically for road transport.

**NEVER TOW DISCS IN THE TRANSPORT POSITION WITHOUT THE LOCKING PINS IN PLACE.**

### **Tractor Linkage To The Machine**

Ensure that the height of the tractor drawbar is approximately the same height as the drawbar of the machine when the machine is standing on the ground with the frame and drawbar parallel to the ground.

The height of the drawbar of the machine may be adjusted by using the holes provided in the frame. This will mean that when in work, the height of the tractor drawbar is approximately 100mm higher than the machines drawbar.

### **Adjustment For Levelling The Frame**

The level of the frame of the machine may be adjusted by means of the spring loaded telescopic screw. The frame should be approximately parallel to the ground when the machine is in work.

When in work the screw allows balanced compressions of the springs on each side of the articulating block.

## **TO UNFOLD THE HARROW**

### **ENSURE THE MACHINE IS PARKED ON FIRM LEVEL GROUND**

1. Fully raise the machine.
2. Remove all four locking pins.
3. Ensure hydraulic changeover valve is in the fold position.
4. Release hydraulic safety latches
5. With tractor engine at idle speed unfold wings of harrow.

## **TO FOLD THE HARROW .**

Ensure the machine is in the fully raised position and then reverse the unfold procedure.

### **NEVER LOWER THE HARROW WHILST IN THE TRANSPORT POSITION, WITHOUT THE STANDS FITTED.**

## **TRANSPORTING THE TINEMASTER.**

Always transport with the harrow in the folded position, with the transport pins fitted and the hydraulic safety latches down.

Customers that have the larger 445/45 19.5 wheels fitted should be aware that the transport width of the Tinemaster is now over 3.00m

**DO NOT TRANSPORT THE TINEMASTER IN THE FULLY RAISED POSITION. LOWER HALF WAY FOR TRANSPORTATION OTHERWISE SWAYING MAY OCCUR AND THE MACHINE MAY BECOME UNSTABLE.**

## **Setting The Angles Of The Disc Gangs**

When setting into work we suggest that the angle of the discs is initially set as follows:

Front Discs: Set to the 3<sup>rd</sup> hole from the front

Rear Discs: Set to the 3<sup>rd</sup> hole from the rear

From this position 'opening' the discs (moving the front discs further forward and the rear discs further back) will increase the cutting action. 'Closing' the discs (moving the front discs backwards and the rear discs forwards) will reduce the cutting action.

If the discs leave a ridge or depression in the middle, carry out the following minor adjustments.

### **To remove a ridge:**

OPEN up the front set of discs by 1 or 2 holes.

### **To remove a depression:**

CLOSE up the front set of discs by 1 or 2 holes.

### **Adjusting The Discing Depth**

On the hydraulic folding machines, the discing depth is adjusted by moving the depth stop on the slide which is situated on the rearmost wheel lift cylinder.

On machines over 3.60m wide an additional depth wheel is fitted to the outside of the frame. The height of these wheels should be adjusted to match the main depth wheels, by use of the pin and screw adjusters.

On the rigid frame machines, the discing depth is adjusted by attaching or removing the mechanical clips onto or off the piston of each of the wheel lift cylinders

### **To Operate The Tines**

The tines are lifted and lowered hydraulically, they are all linked together and when in work are connected to a large capacity accumulator, giving the tines and auto-reset break-back effect.

The pressure in the hydraulic circuit is factory set and must only be adjusted by a Quivogne engineer.

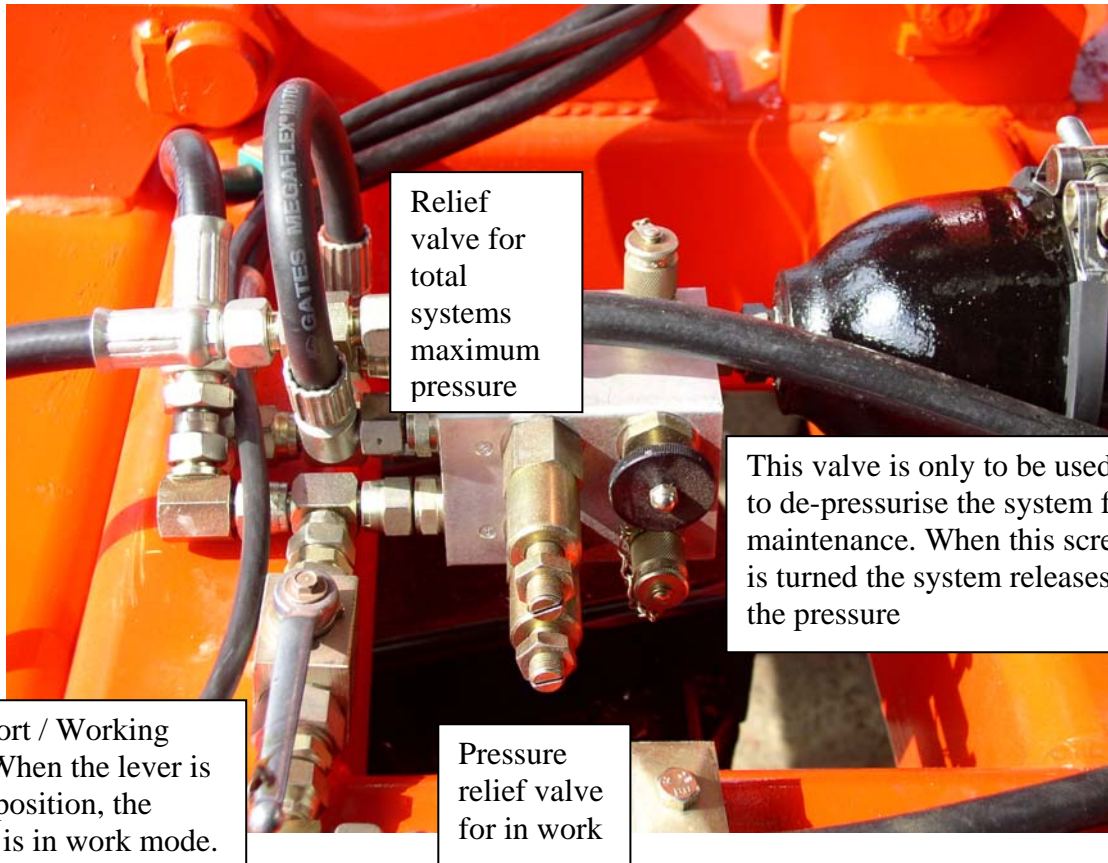
On hydraulic folding machines the tines must be fully raised before folding of the wings takes place.

The depth of each tine is adjusted by means of the pin on the tine leg. It is recommended that the tines are set approximately 100mm below the disc depth.

## Operating Guide for Rear Mounted Press

**The rear mounted press hydraulic system is pre-set. DO NOT ADJUST.**

**! WARNING ! Before disconnecting any pipes from the presses manifold or accumulator, ensure that the systems pressure has been fully released.**



## **Maintenance**

### **Tighten All Bolts & Check Regularly**

It is important that all bolts are checked for tightness after each days work (8 hours) and again at the end of the season before putting into storage.

Regularly check that the disc gang pivot bolt to the main frame is tight. The nut is retained in position by a grub screw which must be loosened before tightening the nut. Ensure that the grub screw is retightened after adjustment of the pivot bolt has been made.

Each gang of discs is fitted with a shaft nut and locking plate.

Regularly check these shaft nuts and make sure they are kept very tight- use the special spanner supplied with the machine. This spanner also fits the pivot bolt nut.

### **Lubrication**

Grease with: SHELL RETINAX A

Or equivalent product

TOTAL MULTIS EP

Grease all nipples before starting work with the machine and every 8 hours thereafter.

It is important not to over grease the shaft bearing assemblies and 'blow the seals'. These bearing assemblies are triple sealed conical bearings and as such do not need excess greasing. Excess greasing of these assemblies, and the resulting 'blowing of the seals' will encourage dirt into the housing. This will eventually result in the failure and collapse of the bearing unit.

The undercarriage linkage assembly requires the most frequent amounts of greasing.



## **Tyre Pressure**

Regularly check all tyre pressures to maintain the correct pressure

445/45 R19.5 Tyres – 116 psi (8 bar)

295/60 R22.5 Tyres – 116 psi (8 bar)

## **Hydraulics**

Keep all hydraulic connections clean.

When leaving the discs for any length of time, ensure that the wheels are fully raised allowing the hydraulic cylinder piston to be fully housed.

Check the operating bar on the hydraulic depth stop and maintain a minimum 2mm gap between the rod end and plunger when the rod is clear of the wheels.

## **Lateral Wheel Clearance.**

Check regularly for the lateral wheel clearance and to adjust, take off the hub cap at the end of the axle, remove the split pin, adjust the nut lightly until clearance has been eliminated. Replace the split pin and cap. Take this opportunity to grease the hub.

**FOR TROUBLE FREE USE – KEEP ALL BOLTS TIGHT AND  
ALL LINKAGES GREASED!**

## **TECHNICAL ADVICE FOR SAFETY** **MACHINE DESIGNED FOR AGRICULTURAL USE**

Please read the advice given below before starting to operate. This machine is designed for agricultural use only. If used in a different capacity we will not be held responsible and the user will be responsible for his own actions.

People using the machine must be advised of the dangers. Comply with accidental protection notices, with work medical regulations with the road traffic regulations with the European Community regulations "Agricultural Machine Instructions". Any technical modification will be without the agreement of the manufacturer and we will not be held liable for the risks.

### **GENERAL BASIC RULES - SAFETY INSTRUCTIONS - ACCIDENT PROTECTION**

Before each working session please ensure that the machine and tractor are in good working order.

1. Comply with the advice and safety instructions described in the operating book.
2. Read the stickers on the machine as they give important information.
3. Comply with safety instructions and the Road Traffic Regulations at the time of each use.
4. Read the operating book carefully before using the machine.
5. Avoid wearing loose clothing near the machine as it could be caught on the PTO shaft, rotors etc.
6. To avoid all risks of fire and premature corrosion keep the machine clean.
7. Make sure that no person stands near the machine before driving and working.
8. Never carry people on the machine. Do not stay on the machine in transport position or when in working position.
9. Only use the equipment provided by the manufacturer to couple the machine.
10. Couple the machine on the tractor, raise the machine carefully to avoid risks of accidents.
11. Always take into consideration the weight and width of the machine on the road.
12. Always set the lighting system, signal system and transport locks for road transportation.
13. Leave the semi-automatic coupling ropes loose so as to avoid the release of the locking system during transport.
14. Do not leave a moving tractor unattended. Stop the engine, disengage the PTO shaft and put on the handbrake.
15. When you steer to couple the machine make sure the braking capacity is sufficient – the braking is influenced by the weight of the machine coupled on the tractor.
16. In transport pay attention to the weight transfer when turning sharp corners and other road obstacles.
17. Only use the machine when all the safety and protection requirements have been followed.
18. Stop the machine immediately when someone arrives on or near the work area.
19. Put the machine on the ground, stop the engine, put the handbrake on and take the key out of the tractor before leaving it.
20. Do not stand between the tractor and the machine if they are not completely stabilized.
21. Do not use the machine if tired, under the influence of alcohol or on drugs.
22. Keep the reflective apparatus clean on the front and rear of machine.

## **MOUNTED MACHINE:**

1. Make sure that the lifting system is working smoothly before coupling the machine on the tractor linkage.
2. Make sure the linkage category of the machine is the same as that of the tractor.
3. Be careful when standing near the linkage system area. There are risks of crushing and cutting.
4. Do not stand between the machine and the tractor during the coupling and when you fit the top link.
5. Adjust the check chains of the linkage of the tractor to avoid excessive sway.
6. In transport lock the operating lever of the linkage.
7. Set the lighting apparatus, signal system and required precautions for transport on the road.
8. Put on the safety pin and release the locking system in transport position.
9. Check the following regularly: axles, lynch pins, articulation pins, linkage bar.

## **SEMI MOUNTED & TRAILED MACHINES:**

1. Make sure that the drawbar, turning link, fix link and hook is in good working order.
2. Check the connection to the tractor: linkage pins, hook, axles, pins etc.
3. Do not stand between the tractor and the machine at the time of coupling.
4. Never attach a trailed machine to the top link hitch point of the tractor  
-SERIOUS RISK OF OVERTURNING
5. Regularly check and clean the hydraulic pipe connection, rams safety valves on the road etc.
6. In transport put on the safety pins and release the locking system.
7. In transport close the safety valves of the lifting rams of the machine.
8. When transporting drive carefully on the road especially on sharp curves and on bridges etc.
9. Set up lights, signal systems and transport locks for road transportation.
10. Do not uncouple the machine when on sloping ground. If necessary place a securing block behind the wheel.
11. Before leaving the tractor uncouple the machine. Lay the machine on the ground or on the support stand.
12. Open and close on a flat area with the tractor running at low revs.

## **MACHINE WITH HYDRAULIC EQUIPMENT:**

1. Check the hydraulic kit, pipes, connections and valves are all in smooth working order before use.
2. Read the setting up procedure before use as shown herewith.
3. Before use fill up the hydraulic circuit by moving the spool valve of the tractor.
4. Keep people away from the driving area and be careful with large unfolding machines.
5. IMPORTANT - In transport close the safety valves of the rams.
6. On vertical and lateral folding machines put all release pins on.
7. Do not attempt to execute more than one operation at a time. Wait for one to finish before starting another.
8. Carry out all the operations on a flat surface with the tractor running at low revs. Leave the machine on a flat area.

## **PTO SHAFT:**

1. Use the PTO shaft recommended by the manufacturer, which has a CE Mark.
2. Keep the guards and covers on the PTO Shaft.
3. At all times be careful with the PTO Shaft.
4. Never attach the PTO when the machine is lifted.
5. Lift the PTO Shaft to check that the guards move freely and cover the shaft.
6. IMPORTANT - Secure the chains of the PTO Shaft to ensure protection.
7. Before connecting the PTO Shaft make sure the RPM is the same as the machine.
8. When engaging the PTO Shaft ensure that no person is standing near the machine.
9. Never engage the PTO when the engine is a stopped or running at high rev.
10. Ensure that no person stands near the moving parts of the machine.
11. Do not allow hands, feet or any other part of the body near the moving parts of the machine.
12. Disengage the PTO Shaft if the work becomes too much for the machine - DO NOT OVERSTRAIN THE PTO.
13. Do not stand near the working machine even if the tractor PTO is disengaged WAIT FOR ALL MOVING PARTS TO STOP.
14. Carry out maintenance, greasing, cleaning and all other necessary work when the PTO Shaft is disconnected, the engine is stopped, the key away and the machine is stabilized.
15. Position the disconnected PTO Shaft on supports in order to avoid damage when in transport.
16. IMPORTANT - Always replace a broken or defective part by an original part, which has a CE Mark.

## **MAINTENANCE:**

1. Carry out all maintenance, greasing, cleaning and any other work on the machine ONLY when the machine is stopped, stabilized, engine stopped, handbrake on and key out.
2. Regularly check the bolts, linkage, link pin, articulation axles, wearing parts often. Tighten them regularly and if necessary replace them with original parts.
3. For all work that needs to be carried out under the machine make sure the unit is wedged and supported carefully to avoid the risk of crushing. Take care with all parts that could fall or uncouple from the machine when this maintenance is being carried out.
4. Wear gloves for all work that needs to be carried out on the machine. Be careful on sharp edges.
5. Before undertaking greasing clean carefully the surplus grease and oil.
6. Before all welding operations on the machine when it is coupled with the tractor disconnect the cables of the battery.
7. Always replace the wearing parts or damaged parts with original ones.

## WARNING & INFORMATION STICKERS ON THE MACHINE

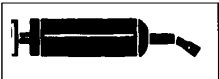


Before leaving the tractor for any operation on the machine, stop the engine and wait for the complete stop of any moving parts

Before starting to operate the machine read the advice and safety instructions given in the handbook. Before each use, check all the protection devices and tightness of bolts.

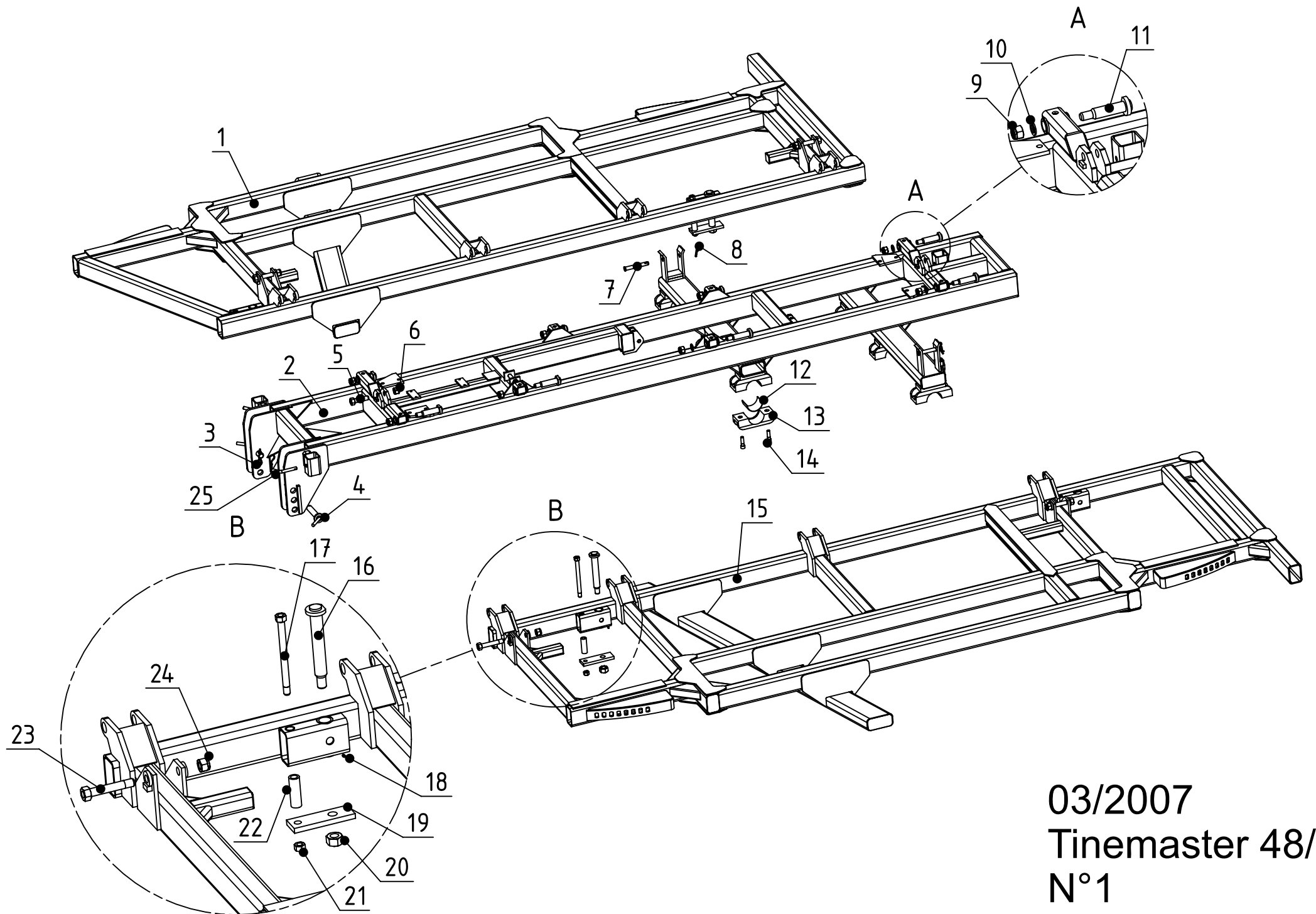
<b>GRAISSAGE</b> · Pailiers toutes les 6 heures · Autres graisseurs toutes les 20 heures	<b>BOULONNERIE</b> · Vérification de la boulonnerie après 1 heure d'utilisation, et ensuite, toutes les 20 heures
<b>GREASING</b> · Bearings every 6 hours · Other grease nipples every 20 hours	<b>BOLTING</b> · Checking after the 1st hour using than, every 20 hours
<b>SCHMIERUNG</b> · Lager alle 6 Stunden · Andere Schmiernippeln alle 20 Stunden	<b>SCHRAUBEN</b> · Überprüfung den Schrauben nach erster Stunde Verwendung, dann alle 20 Stunden

Outlines the greasing instructions and frequency for tightening bolts.



Indicates where grease nipples are located that need greasing.

# Parts Book

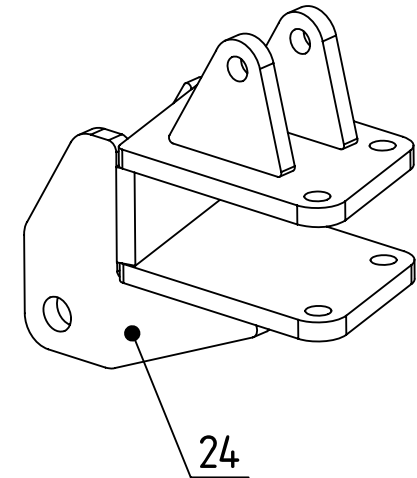
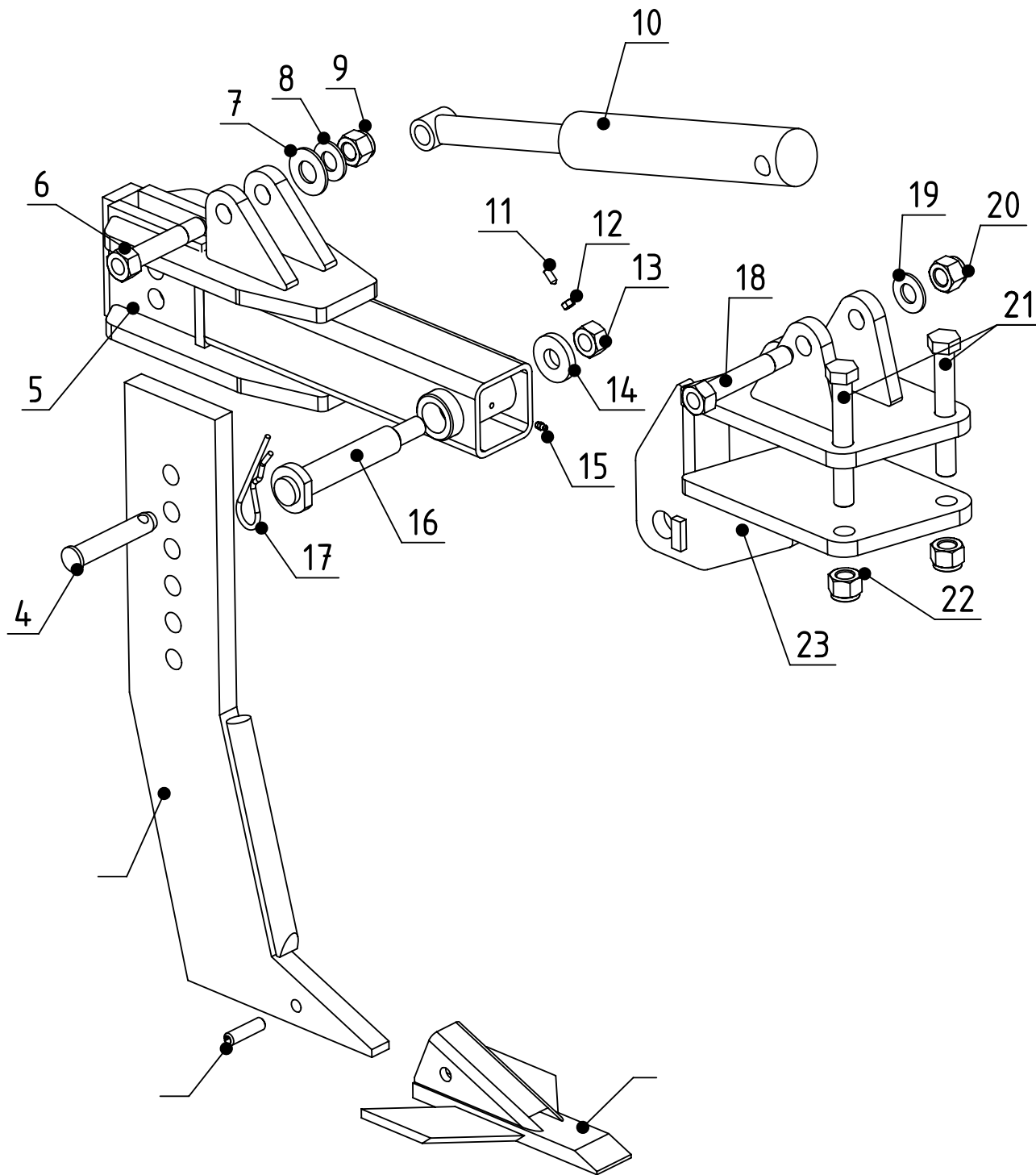


03/2007  
Tinemaster 48/56  
N°1

TINEMASTER 48/56

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Section droite nue TINEMASTERREPLIABLE GR Ø12	Rahmen	Frame	Bastidor	Правая секция	APX00603
2	Chassis central nu TINEMASTER REPLIABLE GR Ø12	Rahmen	Main frame	Cajonera	Центральная рама	APX00600
3	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
4	Broche d'attelage Ø40x175	Spindel	Pin	Pasador	Причепной штырь Ш40x17	BRO04000
5	Axe Ø 30x140 M30 (acier) (sous tête)	Achse	Axle	Eje	Палец Ш 30x140	AXE30027
6	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
7	Axe Ø 25x180 3ème point	Achse Ø25X180	Axle Ø25X180	Eje Ø25X180	Ось 3-й точки Ш 25x180	AXE25036
8	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
9	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
10	Rondelle plate 31x50x5	Scheibe	Washer	Arandela	Плоская шайба 31x50x5	RON03001
11	Axe Ø 40x170 M30 (acier) (sous tête)	Achse	Axle	Eje	Палец Ш 40x170 M30	AXE40002
12	Bague bronze Ø125/120 autoporteur	Büchse	Bushing	Casquillo	Втулка Ш125/120	BAG12500
13	Palier 1/2 gros rond usiné alésage Ø 125 (bague bronz	Lager	Bearing	Cojinete	1/2 корлуса лодшилников	PAL00031
14	Vis T.H.24x 80 8,8 brut	Schraube 24x80	Screw 24x80	Tornillo 24x80	Болт Т.Н.24x 80 8,8	VIS24020
15	Section gauche nue TINEMASTERREPLIABLE GR Ø1	Rahmen	Frame	Bastidor	Левая секция	APX00604
16	Axe Ø 45x345 M33x200	Achse	Axle	Eje	Ось Ш 45x345 M33x200	AXE45009
17	Boulon T.H.25x330 M24 (acier)(sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x330 M24	BLS24034
18	Graisneur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
19	Plaque de fixation de traverseTM-APXRS-APVRS	Platte	Plate	Placa	Крепежная пластина	APX00064
20	Ecrou H. M33x200 percé M8	Mutter M33x200	Nut M33x200	Tuerca M33x200	Гайка Н. M33x200 лросвер	ECR33002
21	Ecrou H. M24 brut	Mutter M24	Nut M24	Tuerca M24	Гайка Н. M24 brut	ECR24002
22	Douille Ø 25.5x40 lg121	Büchse	Bush	Casquillo	Втулка Ш 25.5x40 дл.121	BAG02518
23	Boulon T.H.25x180 M24 (acier)(sous tête)	Bolzen	Bolt	Bùlon	Болт Т.Н.25x180 M24 (ст	BLS24012
24	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
25	Clé Ø20x200	Achse	Axle	Eje	Ключ Ш20x200	CLE02007

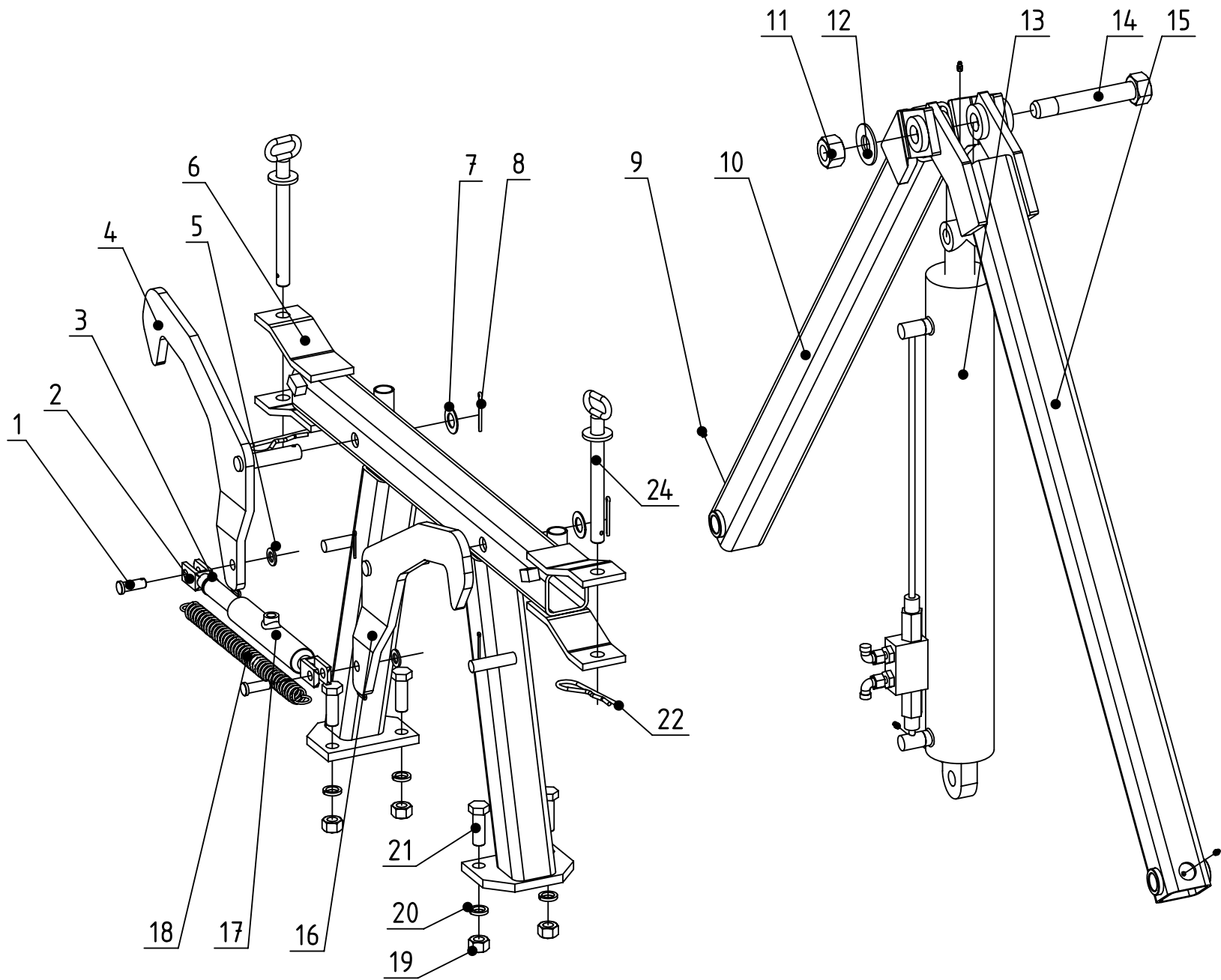




03/2007  
Tinemaster 48/56  
N°2

TINEMASTER 48/56

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
4	Axe Ø 25x135 de 3 point	Achse Ø25x135	Axle Ø25x135	Eje Ø25x135	Ось Ш 25x135 3-й точки	TMA00001
5	Tube support de dent de TM	Tube	Tube	Tube	Олора зуба	SSO00501
6	Boulon T.H.25x150 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x150 M24 (ст	BLS24008
7	Rondelle plate 28x60x4	Scheibe	Washer	Arandela	Плоская шайба 28x60x4	RON02800
8	Rondelle plate 25x50x4	Scheibe 25x50x4	Washer 25x50x4	Arandela 25x50x4	Плоская шайба 25x50x4	RON02502
9	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
10	Vérin DE: 40x 70 C: 200 EAF:410 (réf:4072)	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр	VER04017
10	Pochette de joints pour vérin DE: 40x 70	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT04007
11	Vis T.H.C. 8x20 8.8 brut b.poi	Schraube M8x20	Screw M8x20	Tornillo M8x20	Болт Т.Н.С. 8x20 8.8	VIS08015
12	Ecrou H. M12 Zn	Mutter M12	Nut M12	Tuerca M12	Гайка Н. M12 Zn	ECR12001
13	Ecrou H. M33x200 percé M8	Mutter M33x200	Nut M33x200	Tuerca M33x200	Гайка Н. M33x200 лросвер	ECR33002
14	Rondelle plate 25x60x10	Scheibe	Washer	Arandela	Плоская шайба	RON02510
15	Graisser M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
16	Axe Ø 35x225 M33x200(sous tête)	Achse	Axle	Eje	Палеч	AXE35029
17	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
18	Boulon T.H.25x150 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x150 M24 (ст	BLS24008
19	Rondelle grower WL Ø24	Scheibe WL Ø24	Washer WL Ø24	Arandela WL Ø24	Гроверная шайба WL Ш24	RON02400
20	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
21	Boulon T.H.25x180 M24 (acier)(sous tête)	Bolzen	Bolt	Bùlon	Болт Т.Н.25x180 M24 (ст	BLS24012
22	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
23	Support de dent de TM gauche	Halter	Bracket	Soporte	Олора зуба	SSO00500
24	Support de dent de TM droit	Halter	Bracket	Soporte	Олора зуба	SSO00503

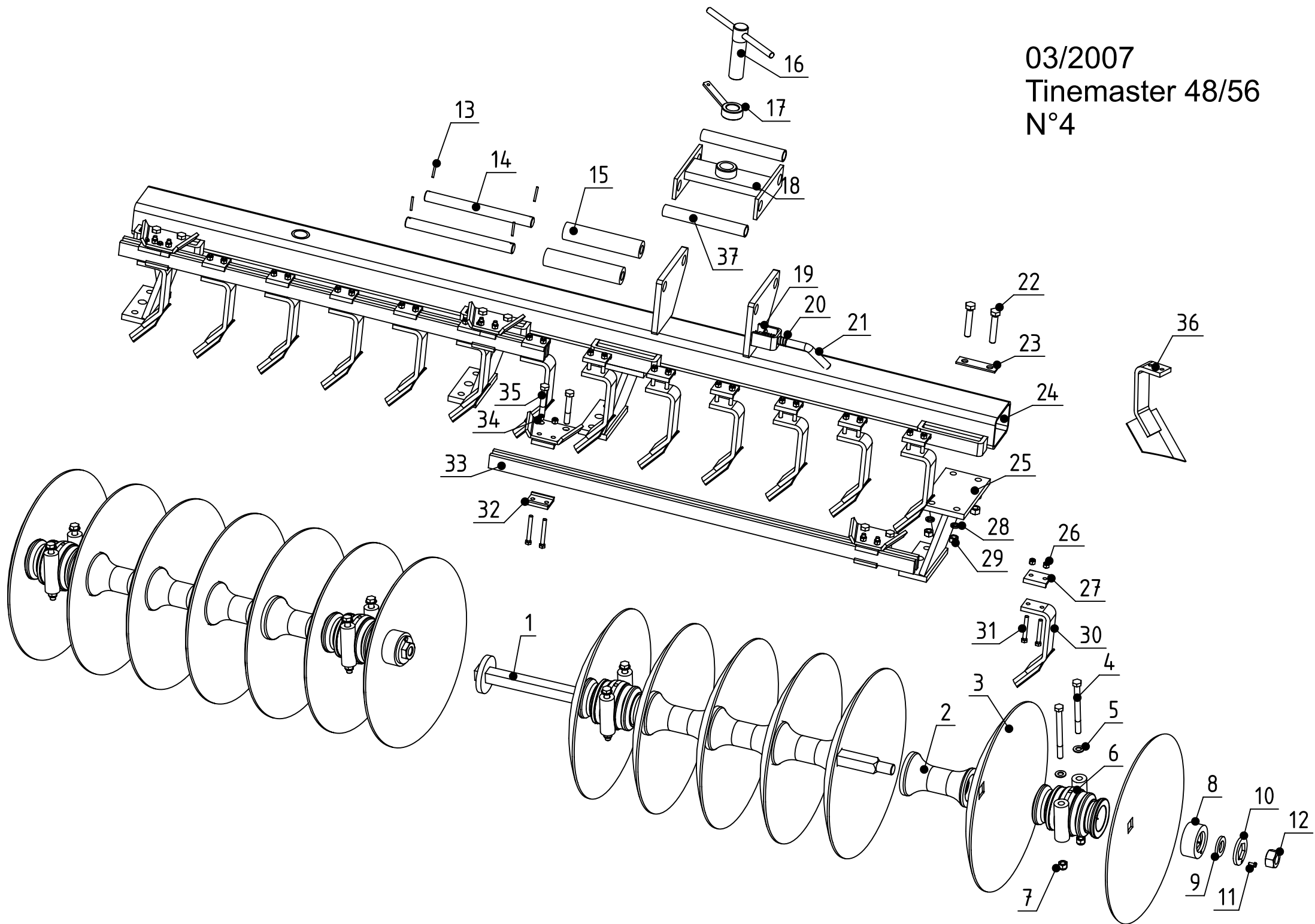


03/2007  
Tinemaster 48/56  
N°3

TINEMASTER 48/56

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Axe Ø 16x43 (sous tête)	Achse	Axle	Eje	Ось Ш 16x 43	AXE16001
2	Chape de vérin de verrouillage	Gabel	Yoke	Horquilla	Скоба гидроцилиндра блок	VER00002
3	Rondelle plate 16x35x3	Scheibe	Washer	Arandela	Плоская шайба 16x 35x3	RON01602
4	Crochet de blocage gauche autoporteur	Haken	Hook	Gancho	Крюк блокировки, левый	APX00032
5	Rondelle plate 17x30x3	Scheibe	Washer	Arandela	Плоская шайба 17x 30x3	RON01704
6	Support avant autoporteur repliable (EAX fixation 550)	Halter	Bracket	Soporte	Опора передняя TINEMAS	APX00206
7	Rondelle plate 25x45x2	Scheibe Ø25x45x2	Washer Ø25x45x2	Arandela Ø25x45x2	Плоская шайба 25x 45x	RON02501
8	Goupille fendue 5x 60 Zn (DIN94 5x45 Zn)	Stift 5x60	Pin 5x60	Pasador 5x60	Разводной шплинт 5x 60	GOU05002
9	Graisneur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
10	Tube de repliage chassis large(plat plié)	Tube	Tube	Tubo	труба леревода в трансл.л	APX00201
11	Ecrou H. M30 brut	Mutter M30	Nut M30	Tuerca M30	Гайка Н. M30 brut	ECR30001
12	Rondelle grower WL Ø30	Scheibe Ø30	Washer Ø30	Arandela Ø30	Шайба grower WL Ш30	RON03000
13	Vérin DE: 50x100 C: 700 EF:1000 A12441	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x100	VER05030
14	Pochette de joints pour vérin DE: 50x100 (après 1985)	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05001
14	Boulon T.H.30x190 M30 (acier) (sous tête)	Bolzen	Bolt	Bùlon	Болт Т.Н.30x190 M30 (ст	BLS30002
15	Tube de repliage chassis large	Tube	Tube	Tubo	Труба леревода в траснсло	APX00200
16	Crochet de blocage droit autoporteur	Haken	Hook	Gancho	Правый блокировочный кр	APX00033
17	Vérin SE: 30 C: 110 débrayage réf:A10624	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр SE: 30	VER03003
17	Pochette de joints pour vérin SE: 30	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT03000
18	Ressort tract.Ø 30 lg180 (débrayage)	Feder	Spring	Muelle	Пружина Ш 30 дл.180	RES03003
19	Ecrou H. M20 brut DIN 934	Mutter M20	Nut M20	Tuerca M20	Гайка Н. M20 brut	ECR20001
20	Rondelle grower WL Ø20	Scheibe WL Ø20	Washer WL Ø20	Arandela WL Ø20	Шайба grower WL Ш20	RON02000
21	Vis T.H.20x 60 8.8 brut	Schraube 20x60	Screw 20x60	Tornillo 20x60	Болт Т.Н.20x 60 8.8 brut	VIS20005
22	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
24	Broche Ø22x170 utile avec maillon de chaine	Spindel	Pin	Pasador	Штырь Ш22x170	BRO02203

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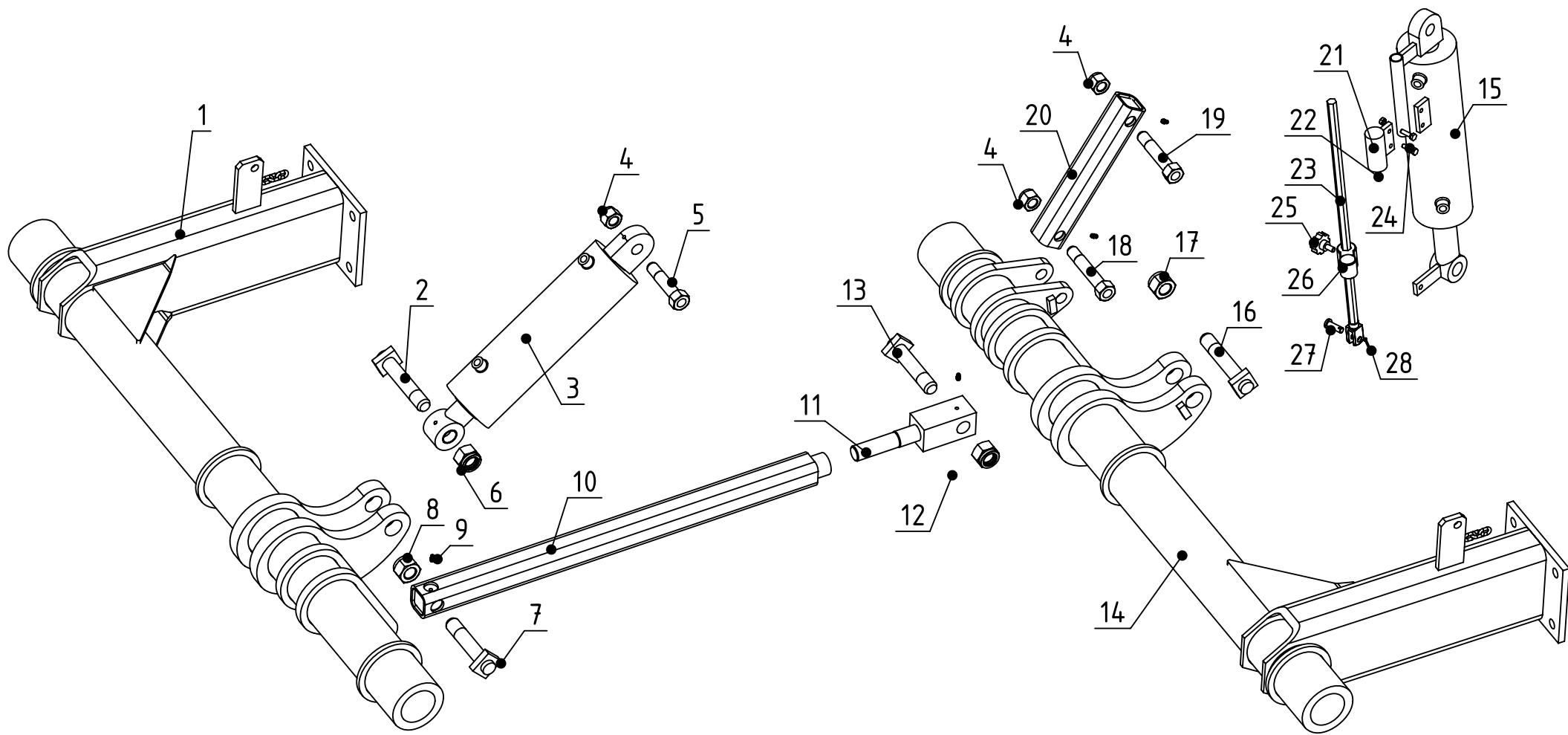


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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Arbre carré (nous consulter)	Sheiben welle	Disc shaft	Arbol de disco	Квадратный вал	See last page
2	Entretoise ec230 c42 C702R usinée	Distanzring	Spacer	Arandela distanciadora	Промежуточная втулка	ENT23401
3	Disque (nous consulter)	Scheiben	Disc	Disco	Диск (проконсультироваться)	DSQ00000
4	Vis T.H.18x200 8.8 brut	Schraube 18x200	Screw 18x200	Tornillo 18x200	Винт	VIS18009
5	Rondelle plate 18x35x2	Scheibe	Washer	Arandela	Плоская шайба 18x35x2	RON01803
6	Palier écart.230 c42 AP 230 complet	Lager	Bearing	Cojinete	Подшипник в сборе	
7	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
8	Rondelle fonte c42 MC 714 percée M10	Scheibe	Washer	Arandela	Плоская шайба	RON04001
9	Rondelle plate 40x70x8	Scheibe	Washer	Arandela	Плоская шайба 40x70x8	RON04012
10	Rondelle trou hexagonal pour écrou M36	Scheibe	Washer	Arandela	Шайба	RON00000
11	Vis T.H.10x 20 8.8 Zn filetage total	Schraube 10x20	Screw 10x20	Tornillo 10x20	Болт Т.Н.10x 20 8.8 Zn л	VIS10006
12	Ecrou H. M36 brut pas 2 (arbre carré de 40)	Mutter M36	Nut M36	Tuerca M36	Гайка Н. M36	ECR36000
13	Goupille cannelée 6x50	Stift Ø6x50	Pin Ø6x50	Pasador Ø6x50	Шлицованный шплинт 6x	GOU06003
14	Axe Ø 35x385 sans tête	Achse Ø35x385	Axle Ø35x385	Eje Ø35x385	Ось Ш 35x385	AXE35004
15	Tube Ø 60/36,5 lg 300	Tube	Tube	Tubo	Труба Ш 60/36,5 дл. 300	BAT00023
16	Vis TL M48	Schraube	Screw	Tornillo	Болт TL M48	VIS48000
17	Ecrou vis de TL M48	Mutter M48	Nut M48	Tuerca M48	Гайка болта TL M48	ECR48001
18	Plaque de blocage de traverse APAXR	Platte	Plate	Placa	Блокировочная пластина	BAT00029
19	Goupille cannelée 6x50	Stift Ø6x50	Pin Ø6x50	Pasador Ø6x50	Шлицованный шплинт 6x	GOU06003
20	Ressort compr.Ø 36 lg 80fil Ø 3,5	Feder Ø36x3,5 lg 80	Spring Ø36x3,5 lg 80	Muelle Ø36x3,5 lg 80	Пружина Ш 36дл. 80	RES03000
21	Levier de débrayage	Hebel	Lever	Palanca	выключающий рычаг	BAT00021
22	Vis T.H.20x110 8,8 Zn	Schraube 20x110	Screw 20x110	Tornillo 20x110	Винт Т.Н.20x110 8,8 Zn	VIS20032
23	Plaque à 2 trous support de palier	Platte	Plate	Placa	Пластина с 2 отв. олоры	BAT00007
24	Traverse nue (nous consulter)	Tube	Tube	Tubo	Траверса	TRX00000
25	Support mécano-soudé ht 310 pour palier carré de 40	Halter	Bracket	Soporte	Олора	SUP10000
26	Ecrou nylstop M12 Zn DIN 985	Mutter M12	Nut M12	Tuerca M12	Гайка nylstop M12 Zn DIN	ECR12002
27	Chape à 2 trous pour barre 50x15	Gabel	Fork	Horquilla	Скоба с 2 отв. для бруса	BAT00005

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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
28	Rondelle grower WL Ø20	Scheibe WL Ø20	Washer WL Ø20	Arandela WL Ø20	Шайба grower WL III20	RON02000
29	Ecrou H. M20 Zn	Mutter M20	Nut M20	Tuerca M20	Гайка H. M20 Zn	ECR20002
30	Raclette AR DR et AR GA disque Ø660 sup. mécanoso	Abstreifer	Scraper	Raedera	Скребок	DEC00152
31	Vis T.H.12x100 8,8 Zn	Schraube	Screw	Tornillo	Винт Т.Н.12x100 8,8 Zn	VIS12049
32	Vis T.H.12x 90 8.8 brut	Schraube 12x90	Screw 12x90	Tornillo 12x90	Болт Т.Н.12x 90 8.8	VIS12022
33	Chape à 2 trous pour barre 50x15	Gabel	Fork	Horquilla	Скоба с 2 отв. для бруса	BAT00005
34	Plat support de barre de raclette	Halter	Bracket	Soporte	Олорная пластина бруса ч	BAT00006
35	Vis T.H.20x110 8,8 Zn	Schraube 20x110	Screw 20x110	Tornillo 20x110	Винт Т.Н.20x110 8,8 Zn	VIS20032
36	Raclette AV GA et AR DR disque Ø660 sup. mécanoso	Abstreifer	Scraper	Raedera		DEC00153
37	Tube Ø 60/36,5 lg 275	Tube	Tube	Tube	Труба III 60/35.5 дл. 275	BAT00027



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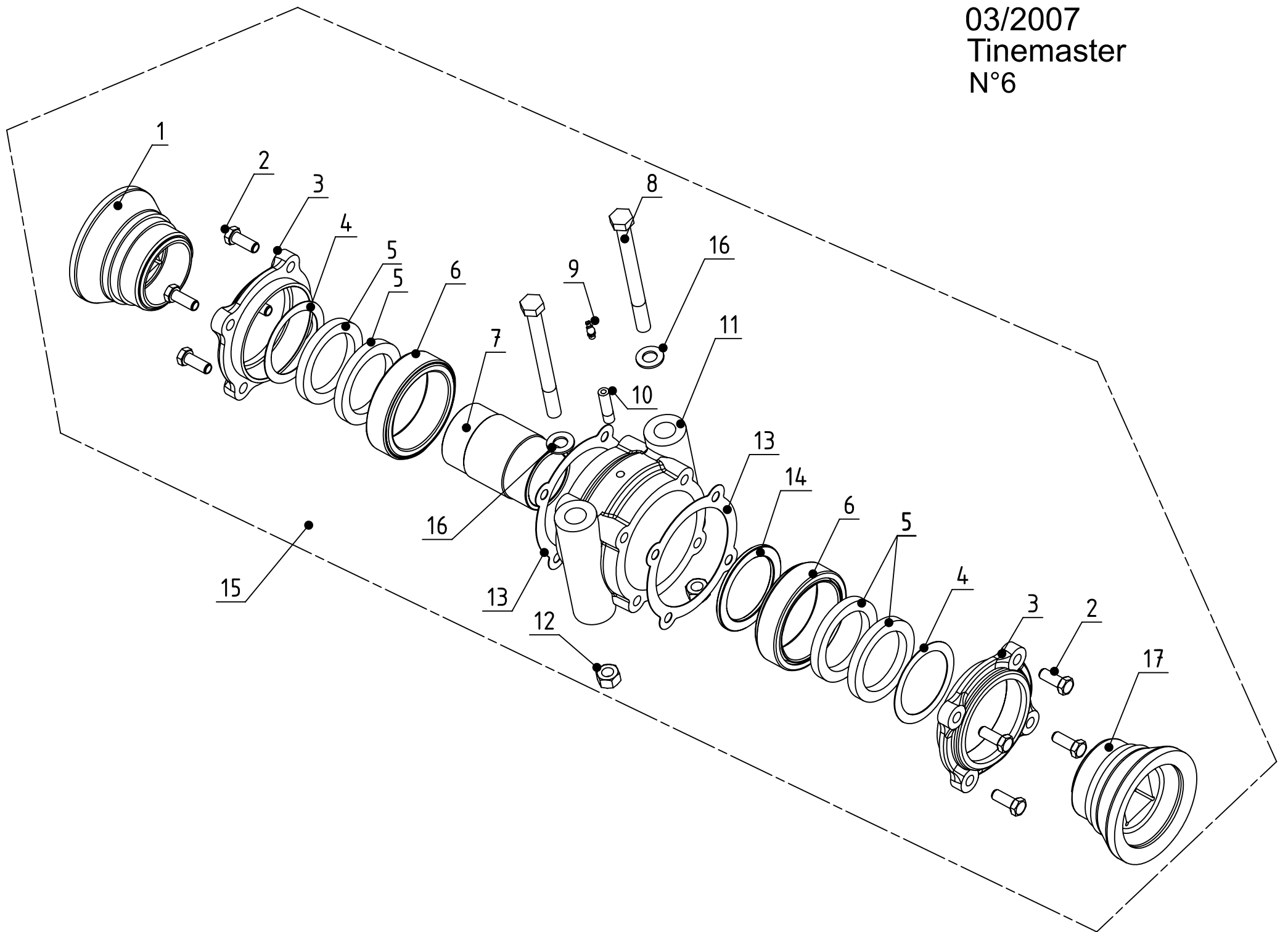
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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Gros rond TINEM. AR GA (baguebr. Ø125/120) biel. pe Tragplatterad		Wheel bracket	Soporte de rueda	Круглая труба	GRD00076
2	Boulon T.H.30x155 M30 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.30x155 M30 (ст	BLS30000
3	Vérin DE: 50x110 C: 275 (prise d'huile en ligne) A1222	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05034
3	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
4	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
5	Boulon T.H.25x130 M24 (acier) (sous tête)	Achse	Axle	Eje	Болт Т.Н.25x130 M24 (ст	BLS24023
6	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
7	Boulon T.H.30x155 M30 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.30x155 M30 (ст	BLS30000
8	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
9	Graisseur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
10	Tube de liaison lg 790M33x200 trou Ø30,5 TM/APXRS	Tube	Tube	Tube	соединительная труба	APX00216
11	Carré de réglage M33x200 trou Ø30	Verstellungswelle M33x200	End block link bar M33x200	Barra del acoplamiento	Регулировочная лластина	APX00011
12	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
13	Boulon T.H.30x155 M30 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.30x155 M30 (ст	BLS30000
14	Gros rond TINEM. AV DR (baguebr. Ø125/120) biel. pe Tragplatterad		Wheel bracket	Soporte de rueda	Круглая труба	GRD00075
15	Vérin DE: 50x110 C: 275 (prise d'huile décalée) A1182	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05023
15	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
16	Boulon T.H.30x155 M30 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.30x155 M30 (ст	BLS30000
17	Ecrou nylstop M30 Zn	Mutter M30	Nut M30	Tuerca M30	Гайка nylstop M30 Zn	ECR30002
18	Boulon T.H.25x155 M24 (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x155 M24	BLS24015
19	Boulon T.H.25x145 M24 (acier) (sous tête)	Bolzen	Bolt	Bùlon	Болт Т.Н.25x145 M24	BLS24009
20	Tube de liaison lg 360 trou Ø25 TM	Tube	Tube	Tube	Соединительная труба дл.	APX00213
21	Carré de réglage (butée cylindrique)	Anschlag	Depth stop	Tope ajustable		HYD00038
22	Tige de butée cylindriqueavec poussoir	Pumpenkolben	Plunger	Piston de la bomba		HYD00029
23	Tige hexagonale	Welle	Shaft	Arbol		HYD00030
24	Vis T.H. 8x 25 8,8 Zn filetagetotal	Schraube	Screw	Tornillo		VIS08028
25	Manette VPA 45 M10x20 (butée hydraulique)	Schraube	Screw	Tornillo	Рукоятка VPA 45 M10x20 (	DIV00001

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<b>Rep.</b>	<b>Nom du produit</b>	<b>Beschreibung</b>	<b>Description</b>	<b>Designacion</b>	<b>Наименование</b>	<b>Code</b>
26	Butée cylindrique complète sans raccord	Zylinder	Cylinder	Cilindro hidraulico		HYD00028
27	Axe Ø 12x 36 (sous tête)	Achse	Axle	Eje		AXE12000
28	Goupille fendue 3x 40 Zn	Stift 3x40	Pin 3x40	Pasador 3x40		GOU03001

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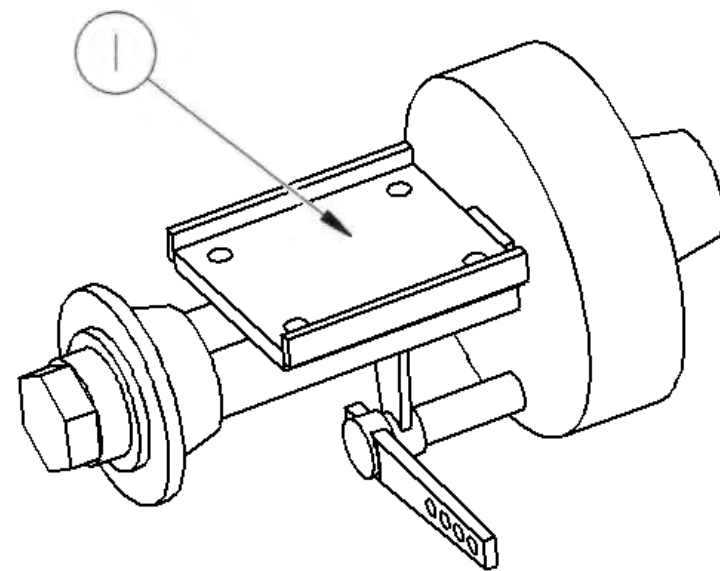
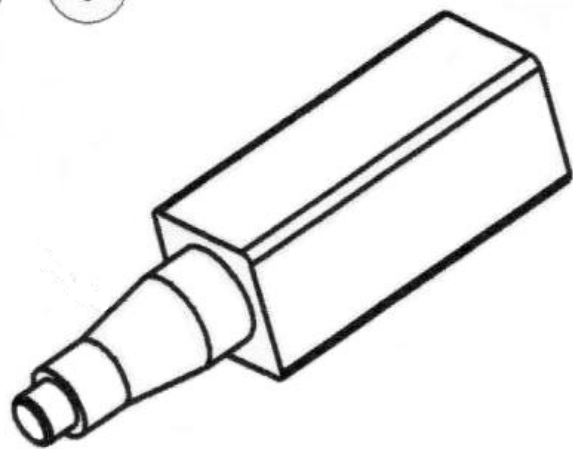
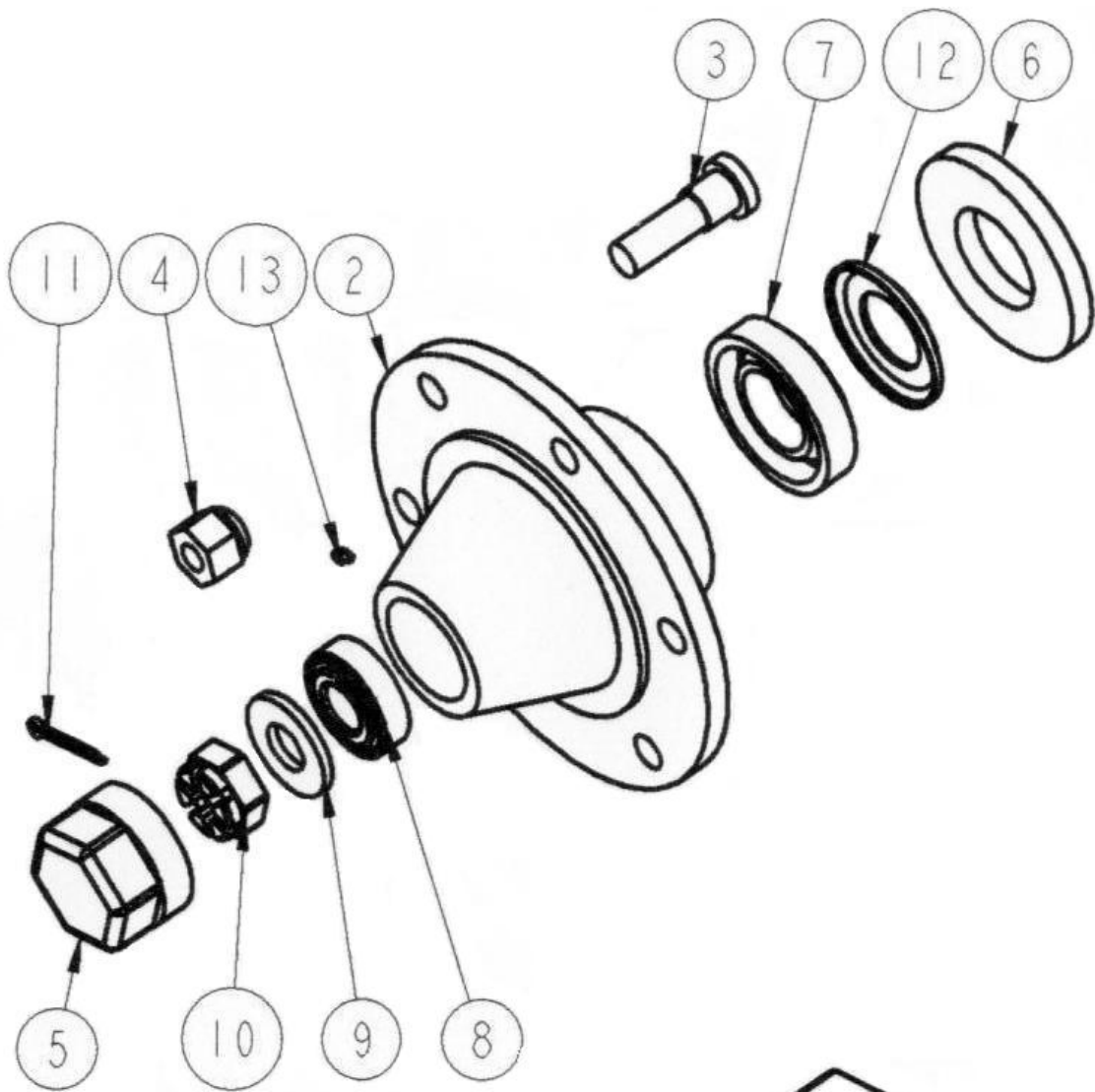
5.20m and 6.00m Tinemaster front bearing assembly only

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Embout ec230 c52 creux	Endstück	End piece Concave	Pieza terminal	Наконечник	EMB23856
2	Vis T.H.10x 35 6.8 brut	Schraube	Screw	Tornillo	Винт Т.Н.10x 35 6.8	VIS10018
3	Couvercle palier c51 usiné	Deckel	Cover	Tapa	Крышка лодшилника в сб	COU00007
4	Rondelle plate 112x129,7x1,5	Scheibe	Washer	Arandela	Плоская шайба 112x129,7x	RON11200
5	Joint à lèvres Ø110x130x12	Dichtung	Tight joint	Junta	Прокладка Ш110x130x12	JOI11000
6	Rlt roul.co.140/90 réf.32018X	Lager	Bearing	Cujinete	Подшилник 140/90 гиф.32	RLT32018
7	Douille palier carré de 50	Büchse	Bush	Casquillo	Втулка	BAG00004
8	Vis T.H.18x200 8.8 brut	Schraube 18x200	Screw 18x200	Tornillo 18x200	Винт	VIS18009
9	Graisseur M 8 coudé 45°	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 угол 45°	GRA08000
10	Allonge de graisseur M8	Verlängerung	Extension	Extensiòn	Удлинитель масленки М8	GRA08002
11	Corps palier: CVB 800 usiné	Körper	Casing	Cuerpo	Корлус лодшилников CVB	COR00006
12	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
13	Joint papier Ø140 pour paliercarré de 50	Dichtung	Tight joint	Junta	Прокладка Ш140	JOI14000
14	Rondelle entretolse palier carré de 50	Scheibe	Washer	Arandela	Шайба лромежуточной вту	BAG00005
15	Palier écart.230 c52 complet	Lager	Bearing	Cojinete	Корлус лодшилника	PAL50002
16	Rondelle plate 19x36x3	Scheibe	Washer	Arandela	Плоская шайба	RON01900
17	Embout ec230 c52 bombé	Endstück	End piece Convex	Pieza terminal	Наконечник	EMB23851

Tinemaster under 5.20m front and rear bearing. 5.20m and 6.00m Tinemaster rear bearing assembly only

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Embout ec230 c42 creux MC616C	Endstück	End piece	Pieza terminal	Наконечник	EMB23646
2	Vis T.H.10x 35 6.8 brut	Schraube	Screw	Tornillo	Винт Т.Н.10x 35 6.8	VIS10018
3	Couvercle MC 617 usiné	Deckel	Cover	Tapa	Крышка	COU00006
4	Rondelle plate 90x115x1,2 acier (MC86)	Deckel	Cover	Tapa	Плоская шайба	RON09000
5	Joint à lèvres Ø 90x115x13 (MC668)	Dichtung	Tight joint	Junta	Прокладка	JOI09000
6	Rlt roul.co.125/70 réf.30214	Lager	Bearing	Cujinete	Подшипник	RLT30214
7	Douille MC 621	Büchse	Bush	Casquillo	Втулка	BAG00001
8	Vis T.H.18x200 8.8 brut	Schraube 18x200	Screw 18x200	Tornillo 18x200	Винт	VIS18009
9	Graisseur M 8 coudé 45°	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 угол 45°	GRA08000
10	Allonge de graisseur M8	Verlängerung	Extension	Extensiòn	Удлинитель масленки М8	GRA08002
11	Corps palier: CVB 700 usiné	Körper	Casing	Cuerpo	Корпус подшипника	COR00004
12	Ecrou nylstop M18 Zn	Mutter M18	Nut M18	Tuerca M18	Гайка nylstop M18 Zn	ECR18002
13	Joint papier Ø125 pour paliercarré de 40 (MC87)	Dichtung	Tight joint	Junta	Прокладка	JOI17000
14	Bague Ø 71x 90 lg 11 (MC88)	Büchse	Bushing	Casquillo	Втулка	BAG07101
15	Palier écart.230 c42 AP 230 complet	Lager	Bearing	Cojinete	Подшипник в сборе	PAL40000
16	Rondelle plate 19x36x3	Scheibe	Washer	Arandela	Плоская шайба	RON01900
17	Embout ec230 c42 bombé MC616B	Endstück	End piece	Pieza terminal	Наконечник	EMB23641

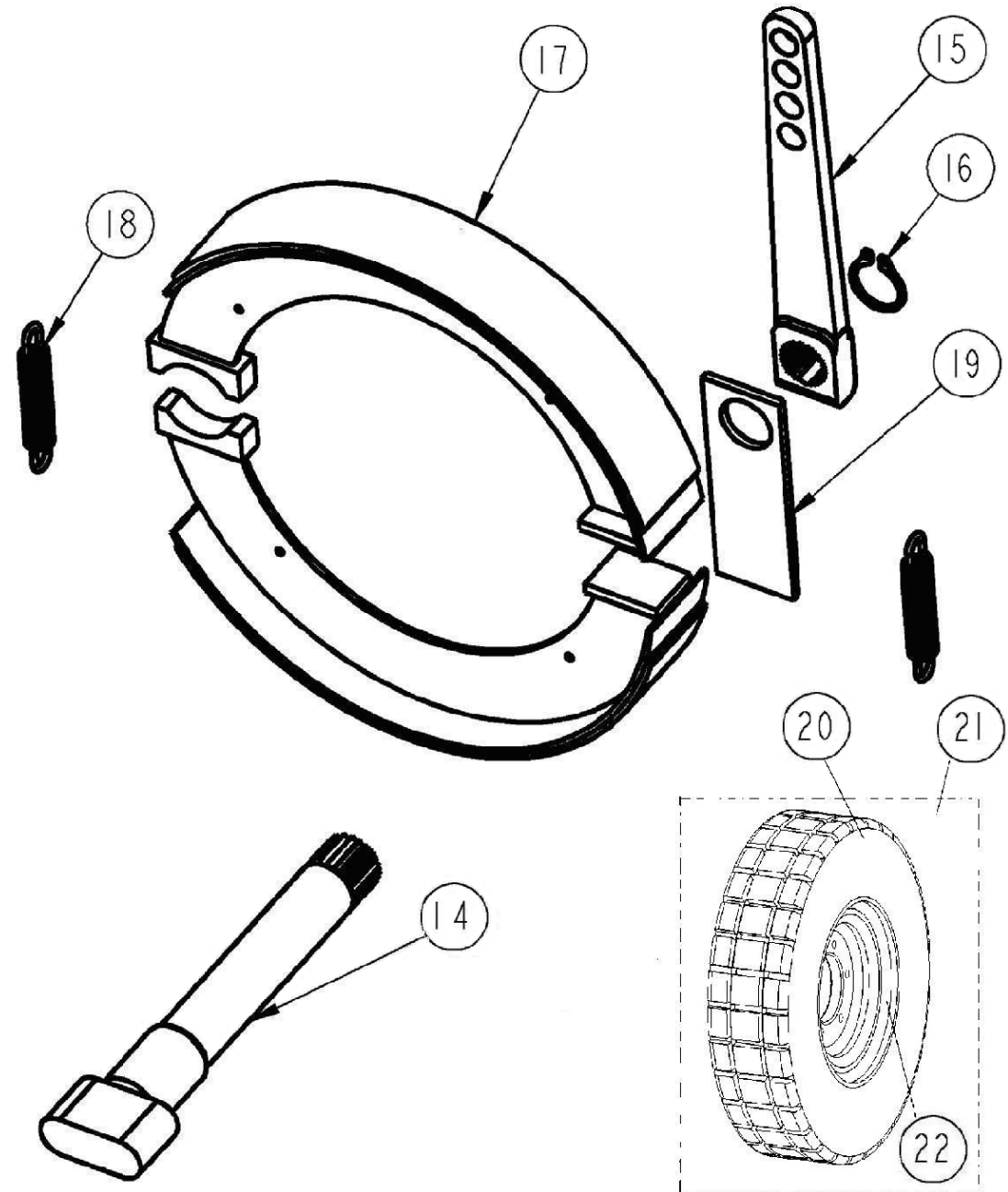
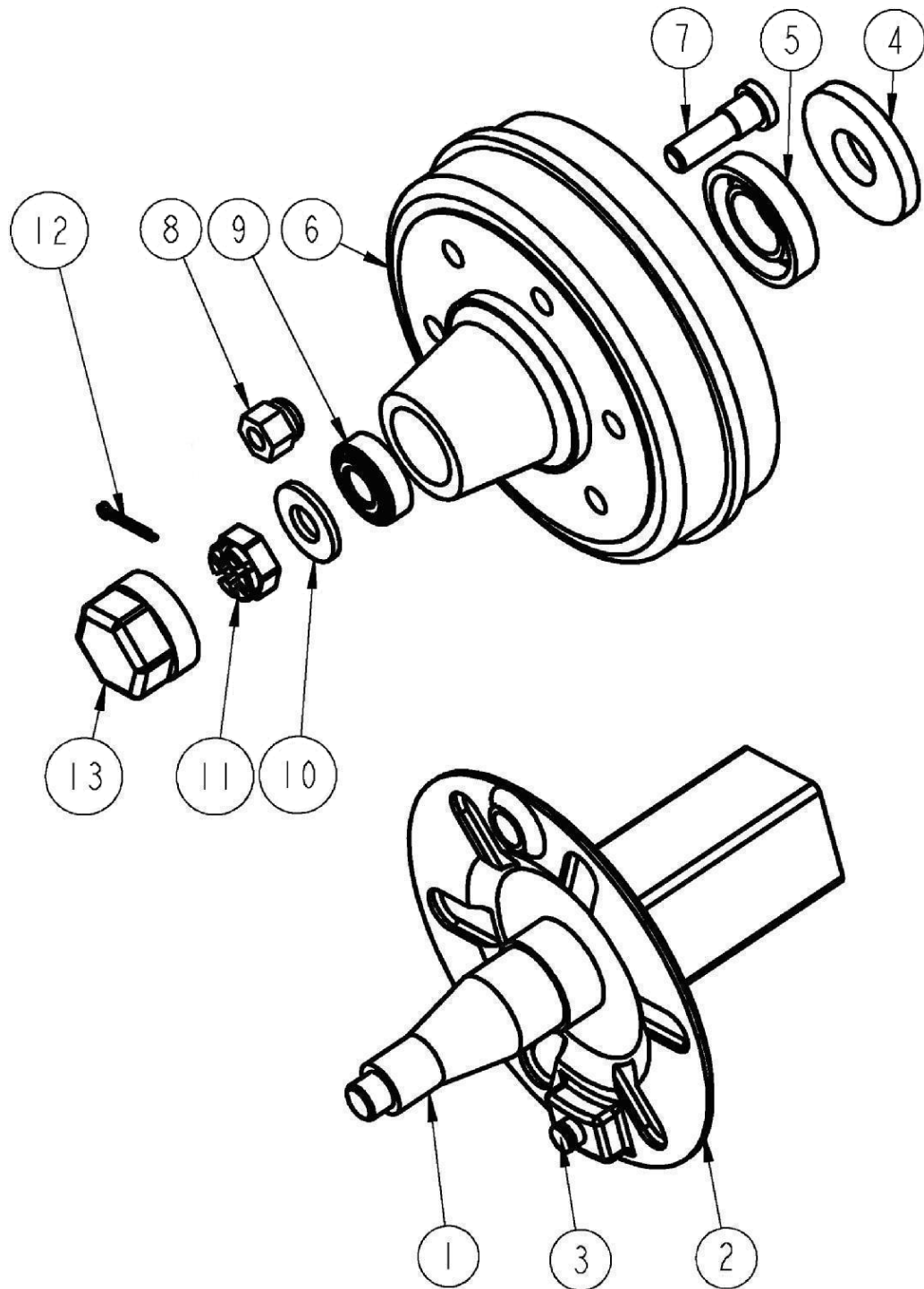
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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Essieu complet c70-6 axes-voie480 freiné	Radachse	Wheel axle	Eje		ESS07025
1	Essieu complet c70-6 axes-voie580 freiné	Radachse	Wheel axle	Eje		ESS07027
2	Moyeu nu ROC 706 A c70 - 6 axes	Nabe	Hub	Cubo	Стулица ROC 706 A c70 -	ESS57001
3	Goujon M18x150 lg45	Gewindebolzen	Stud	Esparrago roscado		ESS56014
4	Ecrou de goujon M18x150 24 plat	Mutter	Nut	Tuerca	Гайка шпильки M18x150 2	ESS56004
5	Bouchon de roue fileté Ø 86,5x150	Stopfen	Plug	Tapòn	Резьбовая заглушка колеса	ESS57002
6	Rondelle de protection 65x119x4	Scheibe	Washer	Arandela	Предохранительная шайба	ESS57003
7	Rlt roul.co.120/65 réf.30213	Lager	Bearing	Cujinete	Подшипник 120/65 гйf.30	RLT30213
8	Rlt roul.co. 85/45 réf.30209	Lager	Bearing	Cujinete	Подшипник 85/45 гйf.302	RLT30209
9	Rondelle plate 37x70x5	Scheibe	Washer	Arandela	Плоская шайба 37x70x5	RON03702
10	Ecrou créneaux HK M36x2 H=25	Mutter M36x2	Nut M36x2	Tuerca M36x2	Корончатая гайка НК М36	ECR36001
11	Goupille fendue 5x 60 Zn (DIN94 5x45 Zn)	Stift 5x60	Pin 5x60	Pasador 5x60	Разводной шплинт 5x 60	GOU05002
12	Joint nylos Ø65 30213	Dichtung	Tight joint	Junta	Прокладка Ш65 30213	JOI06502
13	Graisneur M 6 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М6 левая	GRA06000

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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
2	Flasque équipé (axe+bague)(essieu 606MF1 300x60C)	Kurbelwange	Crankthrow	Flanco		ESS56103
2	Flasque de frein Ø65	Kurbelwange	Crankthrow	Flanco		ESS56104
3	Axe de frein 300x60c	Bremsachse	brake axle	Eje de freno		ESS58027
4	Rondelle de protection 100x55x1,2	Scheibe	Washer	Arondela	Предохранительная шайба	ESS56001
5	Rlt roul.co.100/55 réf.30211	Lager	Bearing	Cujinete	Подшипник	RLT30211
6	Moyeu monobloc 310 H	Nabe	Hub	Cubo		ESS56102
7	Goujon M18x150 lg54/39	Gewindebolzen	Stud	Esparrago roscado	Шпилька M18x150 дл.54/3	ESS56003
8	Ecrou de goujon M18x150 24 plat	Mutter	Nut	Tuerca	Гайка шпильки M18x150 2	ESS56004
9	Rlt roul.co. 80/40 réf.30208	Lager	Bearing	Cujinete	Конический подшипник 80	RLT30208
10	Rondelle plate 31x52x4	Scheibe	Washer	Arandela	Плоская шайба 31x52x4	RON03101
11	Ecrou créneaux HK M30x200	Mutter M30x200	Nut M30x200	Tuerca M30x200	Корончатая гайка НК М30	ECR30004
12	Goupille fendue 5x 50 Zn (DIN94 5x36Zn)	Stift 5x50	Pin 5x50	Pasador 5x50	Разводной шплинт 5x 50	GOU05001
13	Bouchon de roue fileté Ø 81,5x1,5	Stopfen	Plug	Tapòn		ESS56101
14	Came de frein 300x 60C (longueur sous tête à préciser)	Bremsnocken	Brake cam	Leva del freno		ESS56059
15	Biellette 4 trous Ø24,5 (frein300x60C)	Schubstange	Link	Bieleta		ESS56060
16	Circlips extérieur Ø 24	Seegering	Circlip	Anillo		CIR02400
17	Machoire de frein 300x60C	Gabel	Yoke	Horquilla		ESS56061
18	Ressort de rappel frein300x60C	Feder	Spring	Muelle		ESS56062
19	Support de came de frein 300x60C lg 82	Trag	Support	Soporte		ESS56105
19	Support de came de frein 300x60C lg 77	Trag	Support	Soporte		ESS56106
19	Support de came de frein 300x60C lg 87 (essieu carré)	Trag	Support	Soporte		ESS57102
19	Support de came de frein 300x60C lg 92 (essieu carré)	Trag	Support	Soporte		ESS58128
20	Pneu 295/60x22,5	Reifen	Tyre	Neumatico	Шина 295/60x22,5	PNE29500
20	Pneu 445/45 R 19,5	Reifen	Tyre	Neumatico		PNE44500
21	Roue 295/60 R22,5 / 6 trous (CH=3375Kg)	Rad	Wheel	Rueda	Колесо 295/60x22,5/14отв.	RPN29500
21	Roue 445/45 R 19,5 rechapée6 trous	Rad	Wheel	Rueda		RPN44500
22	Jante 9x22,5 pour roue 295/60 R22,5/6 trous	Radfelge	Wheel rim	Llanta de rueda	Диск 9x22,5	JAN29500

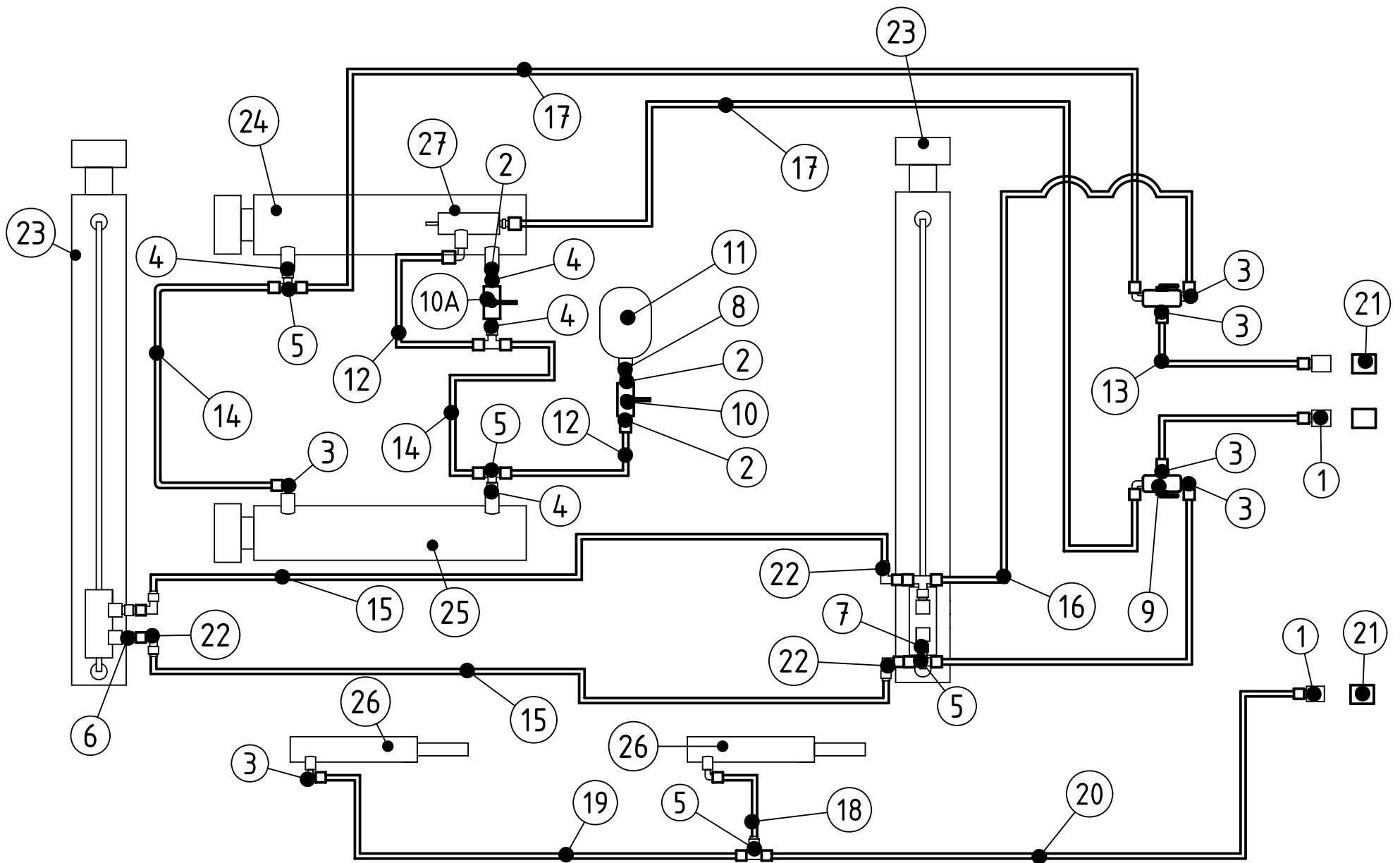
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<b>Rep.</b>	<b>Nom du produit</b>	<b>Beschreibung</b>	<b>Description</b>	<b>Designacion</b>	<b>Наименование</b>	<b>Code</b>
22	Jante 445/45 R19,5	Radfelge	Wheel rim	Llanta de rueda		JAN44500

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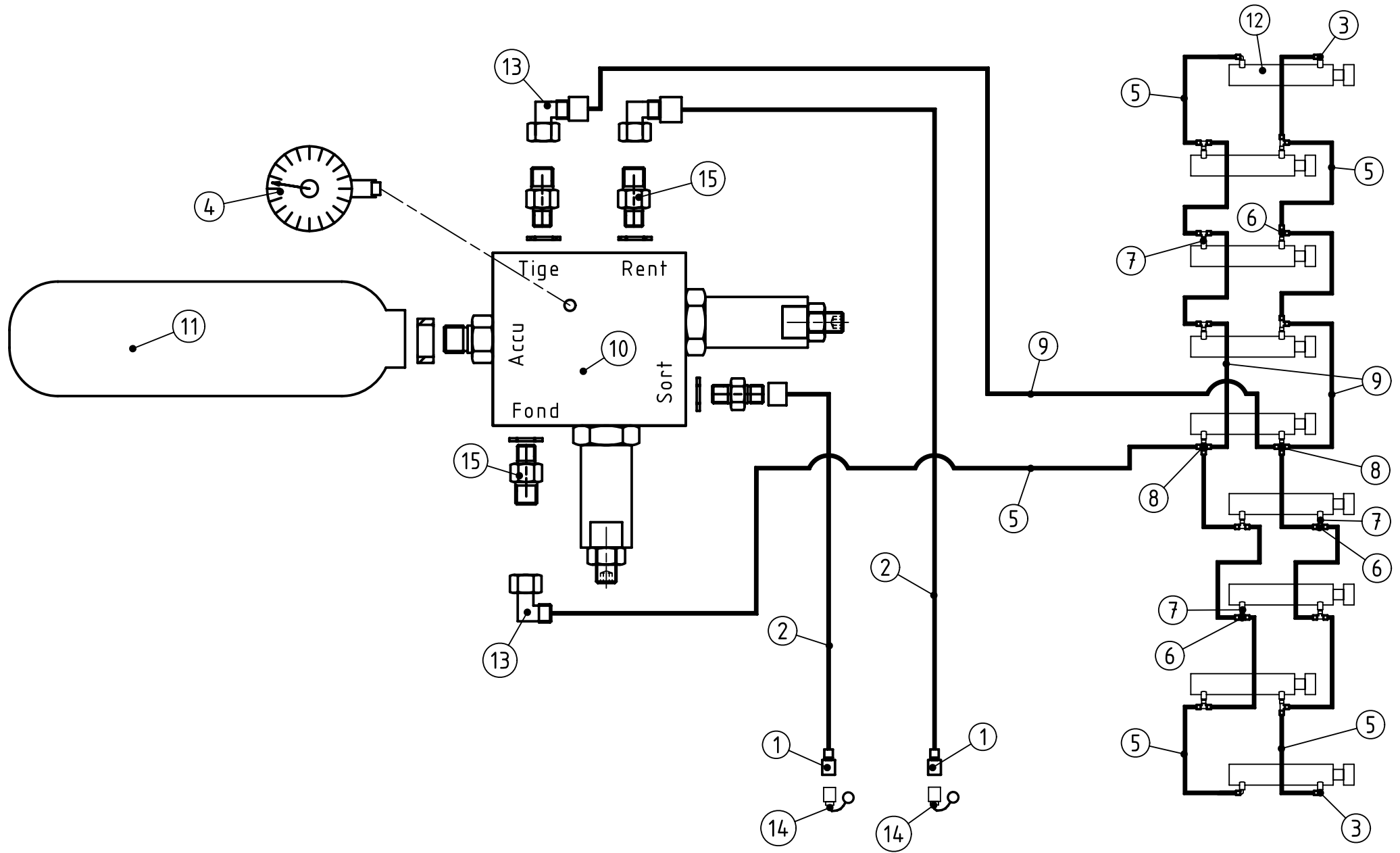
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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Coupleur male 1/2 à clapet(male 18x150)	Kuppler	Coupler	Cuerpo	Муфта наружная 1/2 шар	HYD10710
2	Union M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Соединение 4A12 12-17	HYD10016
3	Coude M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Колено наружное коническ	HYD10305
4	Union F 12L - M 3/8 conique tournant	Ölanschluss	Oil connector	Empalme	Переходник (с вращающей	HYD10201
5	Té égal M 12L	Ölanschluss	Oil connector	Empalme	Тройник равный 10A12	HYD10402
6	Union M 12L - M 1/2 conique	Ölanschluss	Oil connector	Empalme	Соединение 4A12 15-21	HYD10017
7	Union F 12L - M 1/2 conique tournant	Ölanschluss	Oil connector	Empalme	Переходник (с вращающей	HYD10202
8	Adaptateur M 3/4 - F 3/8	Ölanschluss	Oil connector	Empalme	Переходник MG 3/4 - FG	HYD10553
9	Vanne 3 voies en L gaz 3/8 SBS3LGF3/8PCZ+2TROU	Tap	Hahn	Espita	Вентиль с 3 выходами 3/8	HYD00069
10	Robinet 2 voies F 3/8	Tap	Hahn	Espita	Кран с 2 выходами 8 FG	HYD00023
11	Boule d'azote 1,5 litres / 55 bars	Akkumulator	Gas bowl	Acumulador	Амортизатор для трансл.	HYD01020
12	Flexible FF TD2C8 EFR12L-EFR12L lg 300	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD00308
13	Flexible FF TD2C8 EFR12L-EFR12L lg 1600	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD01608
14	Flexible FF TD2C8 EFR12L-EFR12L lg 1600	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD01608
15	Flexible FF TD2C8 EFR12L-EFR12L lg 5300	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD05308
16	Flexible FF TD2C8 EFR12L-EFR12L lg 3700	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD03708
17	Flexible FF TD2C8 EFR12L-EFR12L lg 7500	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD07508
18	Flexible FF TD2C8 EFR12L-EFR12L lg 1000	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD01008
19	Flexible FF TD2C8 EFR12L-EFR12L lg 5800	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD05808
20	Flexible FF TD2C8 EFR12L-EFR12L lg 5300	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD05308
21	Capuchon de coupleur male 1/2 TF12 bleu	Stopfen	Plug	Tapòn	Коллачок муфты 1/2 TF12	HYD00300
22	Coude tournant M 12L - F 12L	Ölanschluss	Oil connector	Empalme	Колено M 12L - F 12L	HYD10452
23	Vérin DE: 50x100 C: 700 EF:1000 A12441	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x100	VER05030
23	Pochette de joints pour vérin DE: 50x100 (après 1985)	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05001
24	Vérin DE: 50x110 C: 275 (prise d'huile décalée) A1182	Cylinder	Zylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05023
24	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
25	Vérin DE: 50x110 C: 275 (prise d'huile en ligne) A1222	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр DE: 50x110	VER05034

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<b>Rep.</b>	<b>Nom du produit</b>	<b>Beschreibung</b>	<b>Description</b>	<b>Designacion</b>	<b>Наименование</b>	<b>Code</b>
25	Pochette de joints pour vérin DE: 50x110	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT05004
26	Vérin SE: 30 C: 110 débrayage réf:A10624	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр SE: 30	VER03003
26	Pochette de joints pour vérin SE: 30	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT03000
27	Butée cylindrique complète sans raccord	Zylinder	Cylinder	Cilindro hidraulico		HYD00028

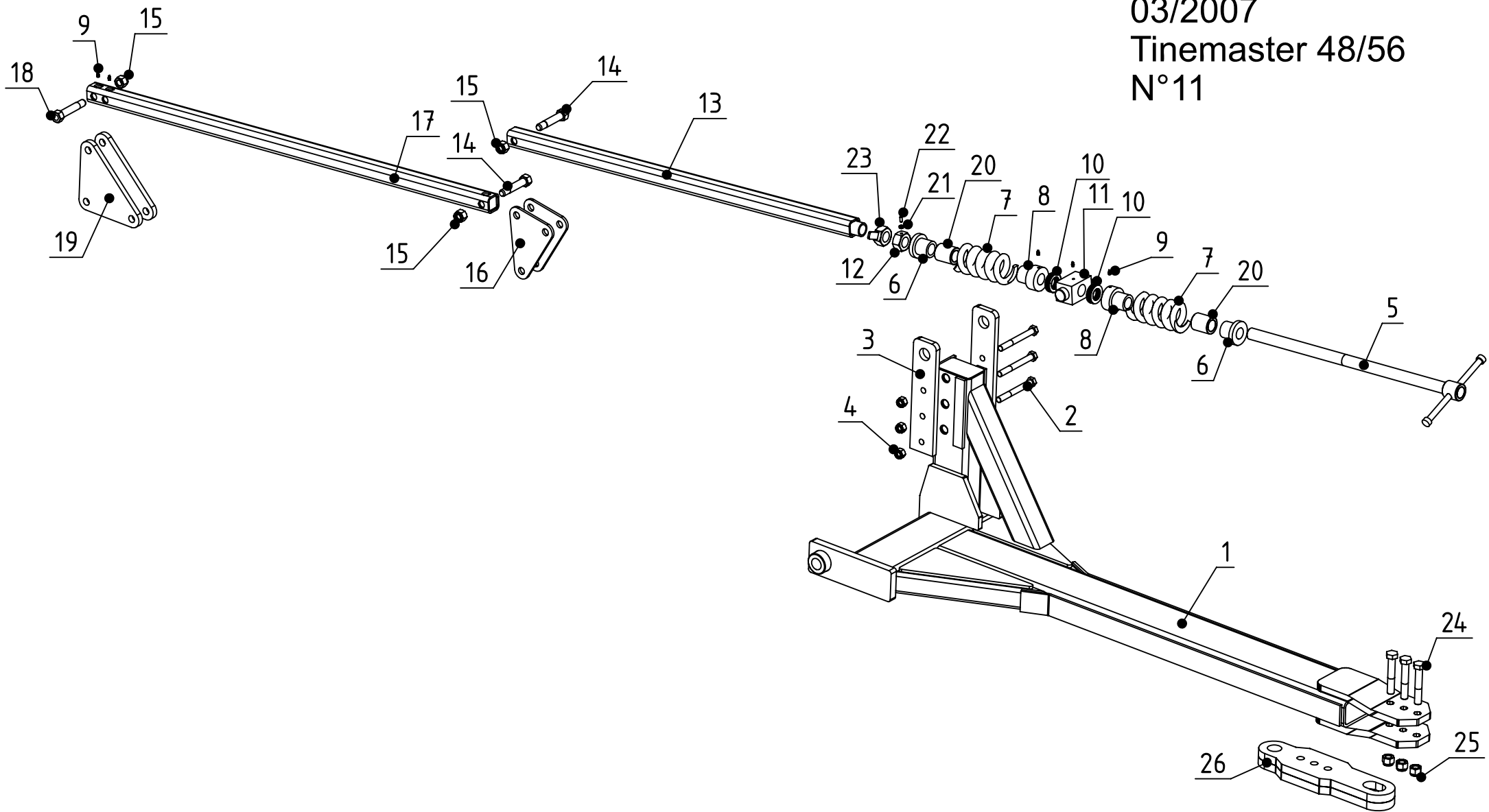


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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Coupleur male 1/2 à clapet(male 18x150)	Kuppler	Coupler	Cuerpo	Муфта наружная 1/2 шаро	HYD10710
2	Flexible FF TD2C8 EFR12L-EFR12L lg 5800	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 EFR12L-	FFD05808
3	Coude M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Колено наружное коническ	HYD10305
4	Manomètre avec raccord radial G1/4 (TINEMASTER)	Ölmanometer	Oil pressure gauge	Manometro del aceite	Манометр	HYD03004
5	Flexible FF TD2C8 EFR12L-EFR12L lg 1600	Schlauch	Hydraulic hose	Tuberia	Шланг FF TD2C8 UF18-UF	FFD01608
6	Té égal M 12L	Ölanschluss	Oil connector	Empalme	Тройник равный 10A12	HYD10402
7	Union F 12L - M 3/8 conique tournant	Ölanschluss	Oil connector	Empalme	Переходник (с вращающей	HYD10201
8	Croix égale M 12L	Ölanschluss	Oil connector	Empalme	крестовина	HYD10350
9	Flexible FF TD2C8 EFR12L-EFR12L lg 2000	Schlauch	Hydraulic hose	Tuberia	Шланг TD2C8 EFR12L-EF	FFD02008
10	Bloc hydraulique type 3056952Bloc de securité Tinema	Gehäuse	Case	Casa	Гидравлический блок	HYD03002
11	Boule d'azote 4 litres / 145 bars	Akkumulator	Gas bowl	Acumulador	Азотный шарик, 4 л/145 а	HYD01065
12	Vérin DE: 40x 70 C: 200 EAF:410 (réf:4072)	Zylinder	Cylinder	Cilindro hidraulico	Гидроцилиндр	VER04017
12	Pochette de joints pour vérin DE: 40x 70	Dichtungen	Seal kit	Juntas	Комплект прокладок для г	PJT04007
13	Coude tournant M 12L - F 12L	Ölanschluss	Oil connector	Empalme	Колено M 12L - F 12L	HYD10452
14	Capuchon de coupleur male 1/2 TF12 bleu	Stopfen	Plug	Tapòn	Коллачок муфты 1/2 TF12	HYD00300
15	Union M 12L - M 3/8 conique	Ölanschluss	Oil connector	Empalme	Соединение 4A12 12-17	HYD10016

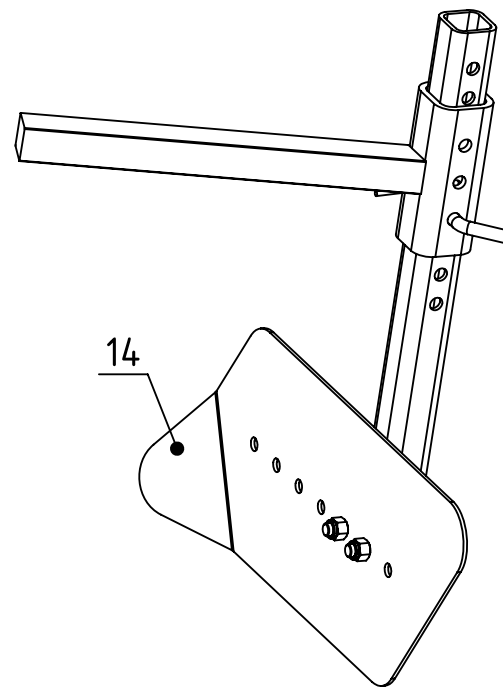
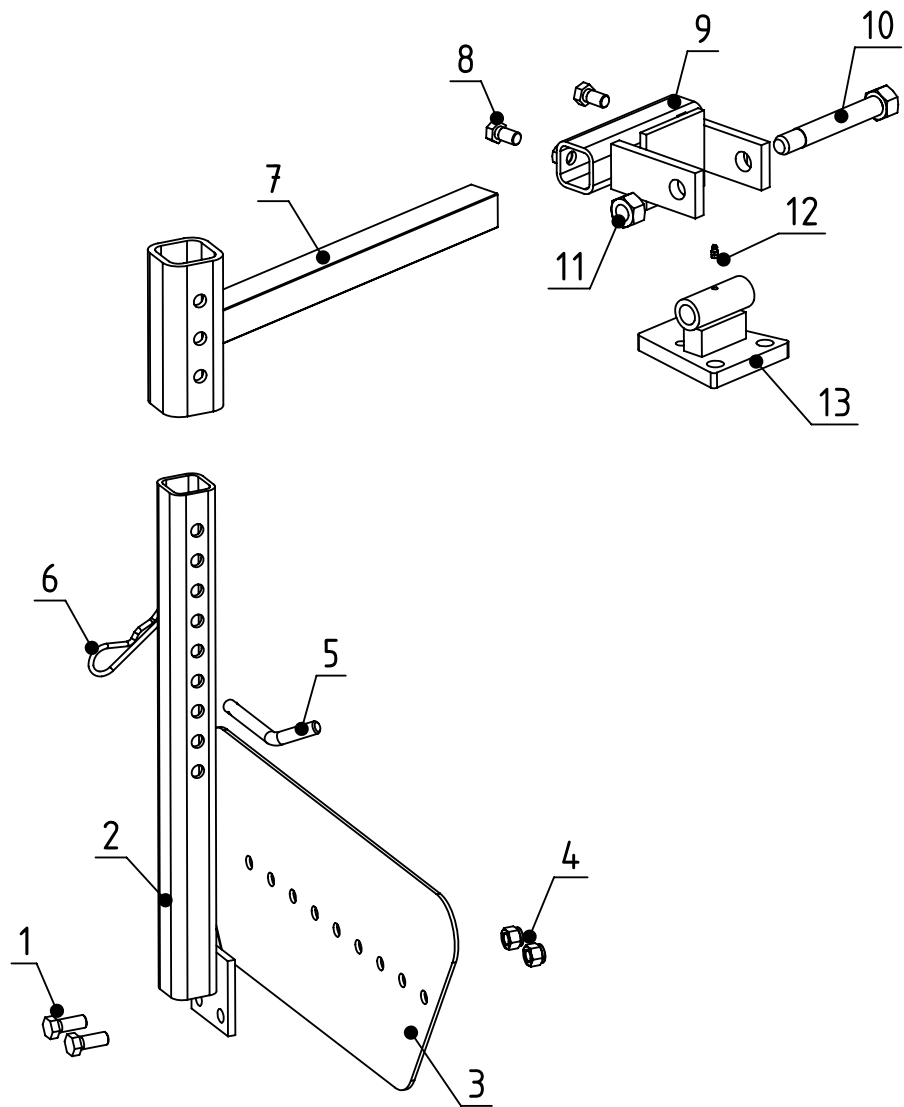
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TINEMASTER 48/56

Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Flèche nue TINEMASTER 40 à 56 disques	Zugdeichsel	Drawbar	Lanza de enganche	Прицельное устройство	FLE00066
2	Vis T.H.20x180 8.8 brut	Schraube 20x180	Screw 20x180	Tornillo 20x180	Болт Т.Н.20x180 8.8	VIS20023
3	Plat droit (trou Ø45) pour TM	Platte	Plate	Placa	Прямая пластина	FLE00067
4	Ecrou nylstop M20 Zn DIN 985	Mutter M20	Nut M20	Tuerca M20	Гайка nylstop M20 Zn DIN	ECR20003
5	Vis de télescopique Ø40 lg 1050	Schraube	Screw	Tornillo	Винт телескопической тру	VIS40001
6	Rondelle pour vis Ø40	Scheibe	Washer	Arandela	Шайба	RON04004
7	Ressort compr.Ø120 lg220 fil Ø30 (Ø60 inter)	Feder	Spring	Muelle	Пружина Ш120 дл.220	RES30000
8	Rondelle pour butée (vis Ø40)	Scheibe	Washer	Arandela	Шайба для упора	RON04005
9	Graisseur M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
10	Rlt butée bille 68/40 réf.51208	Lager	Bearing	Cujinete	Упорный шарикоподшипни	RLT51208
11	Carré d'articulation lg 155 pour vis Ø40	Klauen	Dogs	Antiolazioni	Шарнирный брус дл 155 д	FLE00007
12	Ecrou M40 Percé M8	Mutter M40	Nut M40	Tuerca M40	Гайка для телескопическог	ECR40009
13	Tube de liaison lg 1510 M40x300 trou Ø25 TM	Tube	Tube	Tubo	Соединительная труба	APX00210
14	Boulon T.H.25x125 M24 (acier)(sous tête)	Achse Ø25x125 - M24	Axle Ø25x125 - M24	Eje Ø25x125 - M24	Болт Т.Н.25x125 M24 (ст	BLS24014
15	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
16	Triangle de renvoi 30°TM	Drehestift	Pivot	Pivote	треугольник отражения 30	APX00215
17	Tube de liaison lg 1770 trou Ø25 TM	Tube	Tube	Tubo	Соединительная труба	APX00212
18	Boulon T.H.25x140 M24 (acier) (sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x140 M24 (ст	BLS24028
19	Triangle de renvoi 90°TM	Drehestift	Pivot	Pivote	треугольник отражения 90	APX00214
20	Bague Ø 40,5x60 lg 60 (renfortressort flèche)	Büchse	Bushing	Casquillo	Втулка Ш 40,5x 60 дл. 80	BAG04009
21	Ecrou H. M 8 brut	Mutter M8	Nut M8	Tuerca M8	Гайка Н. М 8	ECR08000
22	Vis T.H.C. 8x20 8.8 brut b.poi	Schraube M8x20	Screw M8x20	Tornillo M8x20	Болт Т.Н.С. 8x20 8.8	VIS08015
23	Ecrou vis télescopique M40 (avec levier)	Mutter	Nut	Tuerca	Гайка для телескопическог	ECR40002
24	Vis T.H.24x140 8,8 Zn	Schraube 24x140	Screw 24x140	Tornillo 24x140	Болт Т.Н.24x140 8,8 Zn	VIS24007
25	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
26	Anneau d'attelage TM boulonné	Zughöse	Ring	Argolla	Кольцевая счелка	ANN00007



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Rep.	Nom du produit	Beschreibung	Description	Designacion	Наименование	Code
1	Vis T.H.16x 40 6.8 Zn	Schraube 16x40	Screw 16x40	Tornillo 16x40	Болт Т.Н.16x 40 6.8 Zn	VIS16004
2	Tube coulissant réglage hauteur déflecteur APFLFF / T	Tube	Tube	Tubo		APV00503
3	Tôle droite de déflecteur antiprojection	Platte	Sheet iron for deflectors	Placa		APX00222
4	Ecrou nylstop M16 Zn	Mutter M16	Nut M16	Tuerca M16	Гайка nylstop M16 Zn	ECR16002
5	Clé Ø16x135 lg totale 200	Spindel Ø16x135	Pin Ø16x135	Pasador Ø16x135	Ключ Ш16x135 общая дл.	CLE01600
6	Goupille beta Ø6	Stift beta Ø6	Pin beta Ø6	Pasador beta Ø6	Штифт beta Ш6	GOU06000
7	Tube coulissant réglage largeur déflecteur APFLFF / T	Tube	Tube	Tubo		APV00502
8	Vis T.H.16x 40 8.8 brut filetage total	Schraube	Screw	Tornillo	Винт Т.Н.16x 40 8.8 лол	VIS16036
9	Articulation 2 de déflecteur APFLFF / TINEMASTER	Gelenkverbindung	Connection	Articulaciòn		APV00501
10	Boulon T.H.25x200 M24 (acier)(sous tête)	Bolzen	Bolt	Perno	Болт Т.Н.25x200 M24 (ст	BLS24027
11	Ecrou nylstop M24 Zn	Mutter M24	Nut M24	Tuerca M24	Гайка nylstop M24 Zn	ECR24003
12	Graisser M 8 droit	Schmiernippel	Grease nipple	Engrasador	Масленка М 8 лрямая	GRA08001
13	Articulation 1 de déflecteur APFLFF / TINEMASTER	Gelenkverbindung	Connection	Articulaciòn		APV00500
14	Tôle gauche de déflecteur antiprojection	Platte	Sheet iron for deflectors	Placa		APX00223

<b>Disc Shafts For Tinemaster</b>									
	<b>2.8m</b>	<b>3.2m</b>	<b>3.6m</b>	<b>4m</b>	<b>4.4m</b>	<b>4.8m</b>	<b>5.2m</b>	<b>5.6m</b>	<b>6m</b>
<i>Front No. Discs</i>	6	7	8	9	10	11	12 (6+6)	13 (6+7)	14 (7+7)
<i>Shaft Length</i>	52" 1310	61" 1545	70" 1770	79" 2015	88" 2250	97" 2475	52" 1310	52" 1310	61" 1545
<i>Part Number</i>	<b>CAR04002</b>	<b>CAR 04003</b>	<b>CAR 04004</b>	<b>CAR 04005</b>	<b>CAR 04006</b>	<b>CAR 04007</b>	<b>CAR05017</b>	<b>CAR05017</b>	<b>CAR05018</b>
							52" 1310	61" 1545	61" 1546
							<b>CAR05017</b>	<b>CAR05018</b>	<b>CAR05018</b>
<i>Rear No. Discs</i>	7	8	9	10	11	12	13 (6+7)	14 (7+7)	15 (7+8)
<i>Shaft Length</i>	61" 1545	70" 1770	79" 2015	88" 2250	97" 2475	107" 2720	52" 1310	61" 1545	61" 1545
<i>Part Number</i>	<b>CAR 04003</b>	<b>CAR 04004</b>	<b>CAR 04005</b>	<b>CAR 04006</b>	<b>CAR 04007</b>	<b>CAR 04024</b>	<b>CAR04002</b>	<b>CAR04003</b>	<b>CAR04003</b>
							61" 1545	61" 1545	70" 1770
							<b>CAR04003</b>	<b>CAR04003</b>	<b>CAR04004</b>