

I70 - Bale Shear



OPERATOR'S handbook

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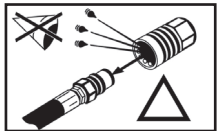
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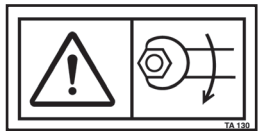
1. Read the operator's manual carefully



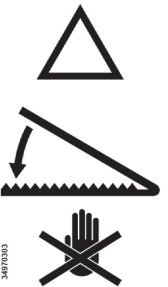
2. Do not stand on or under implement



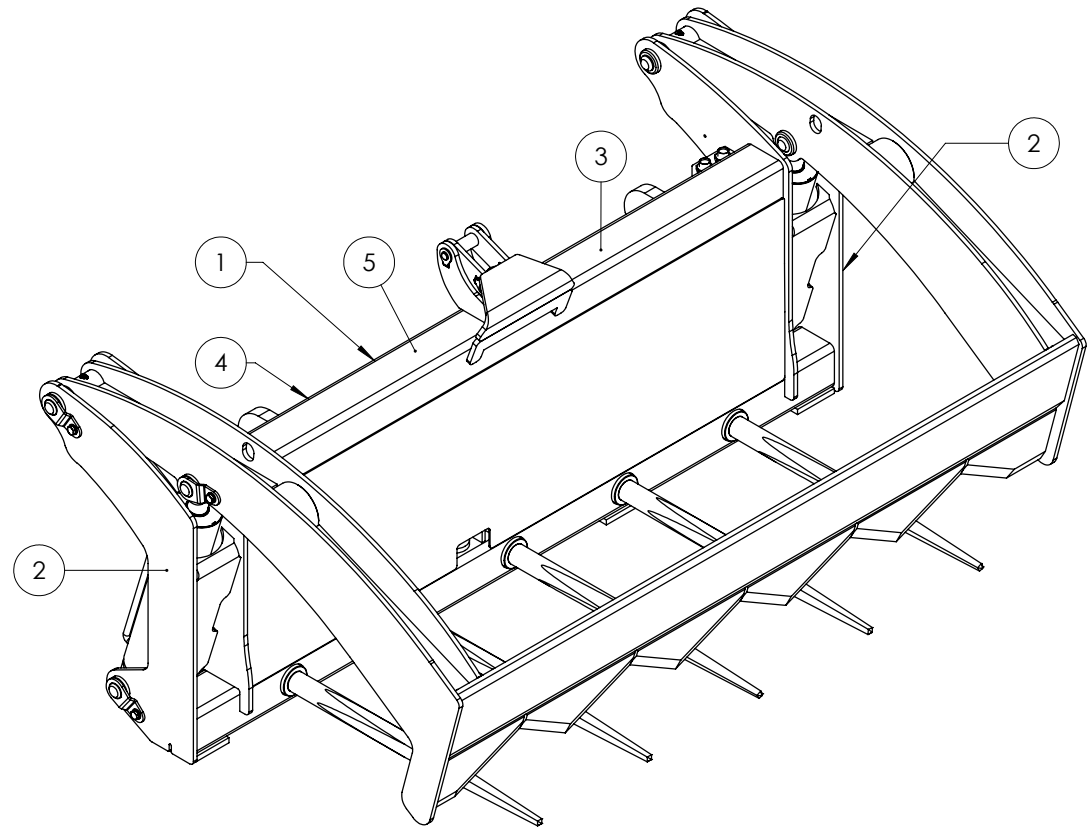
3. Hoses are under pressure at all times



4. Ensure that nuts are kept tight at all times



5. Danger Keep hands clear of sharp blades



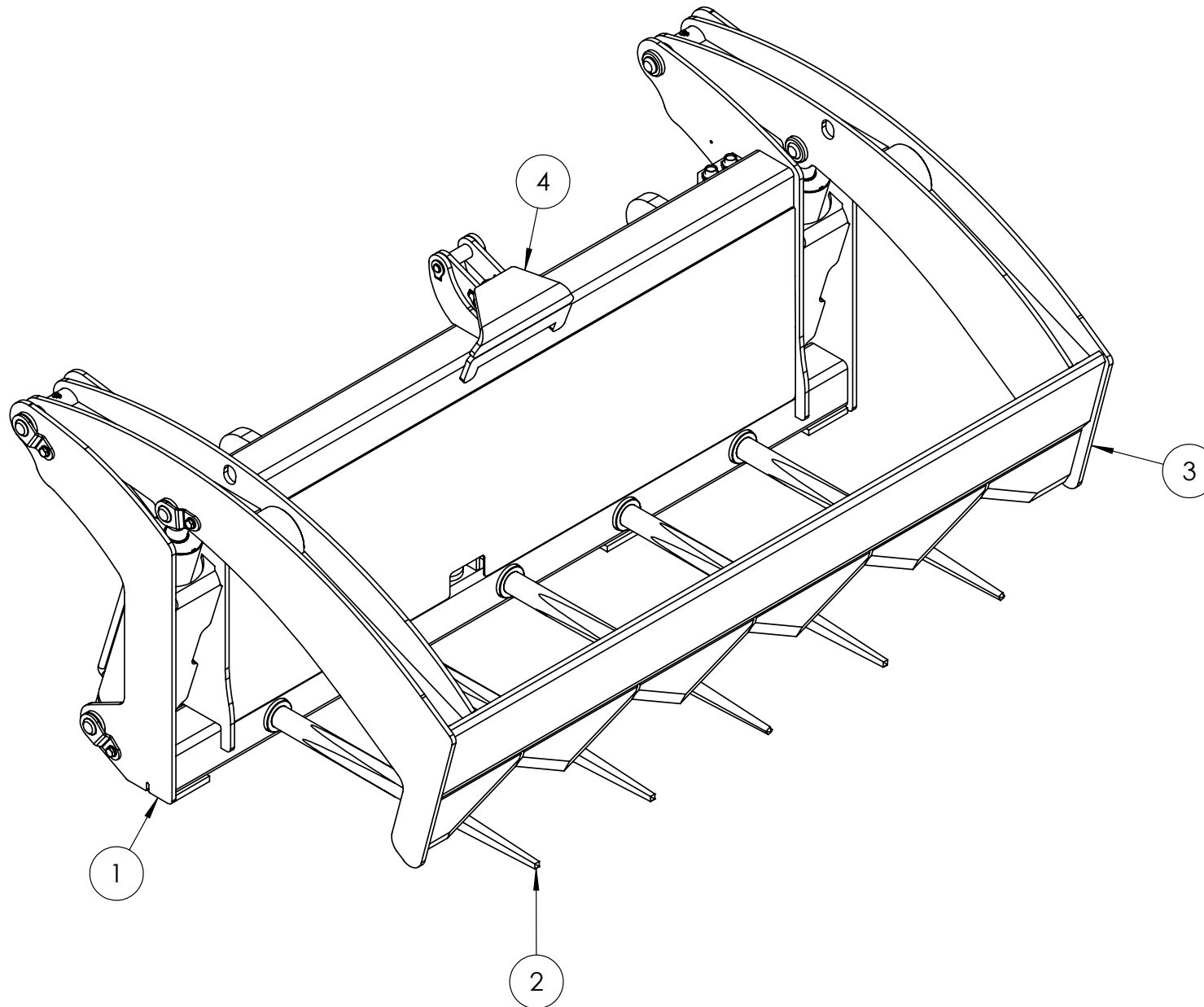
Tanco Autowrap Ltd congratulates you on your choice of the TANCO AUTOWRAP I70 Bale Shear. We are certain you will be satisfied with the machine, and that you will have the pleasure of your investment for many years.

The I70 Bale Shear system changes the way round bales are fed, making feeding this way efficient and economical. The I70 Bale Shear uses a Patented system for gripping the plastic wrap whilst splitting the bale in half making it ideal for feeding round bales along feed passages and into diet feeders.

The fact that no knives are required to strip the plastic wrap off silage bales, has huge safety advantages, especially when getting off the tractor. It can slice hay, straw or silage bales with consummate ease.

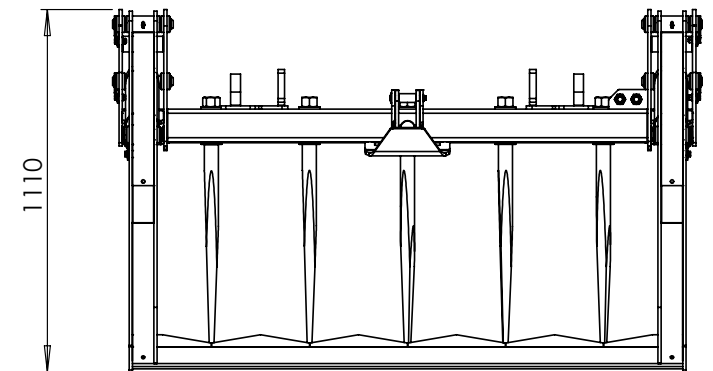
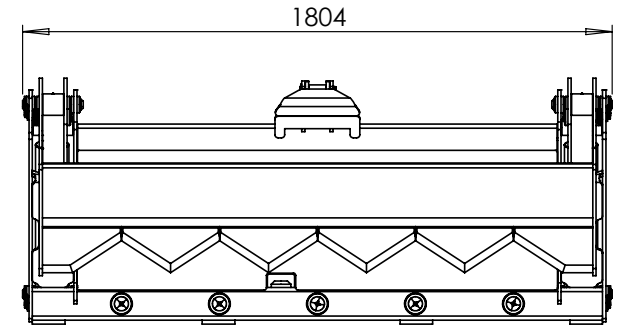
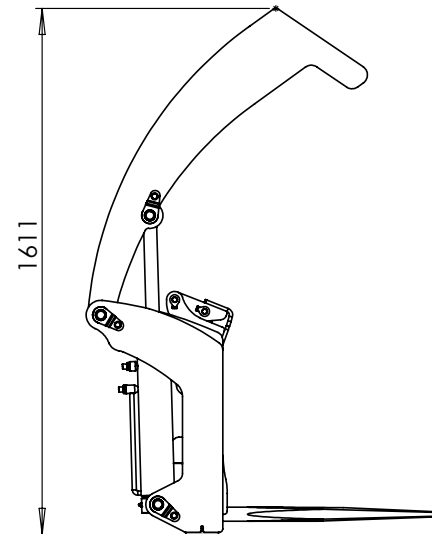
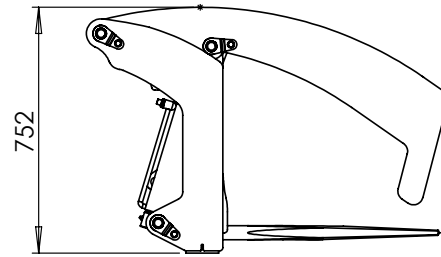
The unique system of automatic plastic grab and bale split, using just one standard hydraulic coupling, makes it ideal for front loader use. Chopping the bale in half when loading a diet/feeder-wagon, makes for more efficient mixing and less wear and tear on the feeder.

Read carefully through this manual, and especially the safety instructions, before starting the machine. Follow the instructions thoroughly, if problems should occur, check the troubleshooting guide to try to establish the problem. Ask your dealer for advice before you attempt anything that may make the problem worse.



No.	Description
1	Main Frame
2	Bale Tine
3	Cutter Frame
4	Gripper Mechanism

Technical Specifications	I70 Bale Shear
Height (Closed)	0.75m
Height (Open)	1.61m
Width	1.80
Length	1.11m
Weight	390kgs
Maximum Bale Length	1.3m
Maximum Bale Diameter	1.35m
Maximum Bale Weight	1400kgs
Hydraulic Connection	Double acting service
Oil Pressure (Max / Min.)	210 bar / 150 bar
Oil Amount (Max / Min.)	50 lts / 20 lts
Maximum Counter Pressure	15 bar



NB: Tanco Autowrap Ltd. reserves the right to modify the construction and/or technical specifications without warning and without rights to changes on already delivered products

Tanco Autowrap Ltd does not take responsibility for damages that may occur to machine, persons or other equipment, because of the machine NOT being used as described in this manual, or because of the safety precautions NOT being followed.

IMPORTANT!

Always make sure nobody is in the hazard area of the Bale Shear when the machine is in-use.

The machine must not be operated by persons who do not know enough about how to safely operate the machine, or by persons under the age of 16 years.

Dangerous Areas

Tanco Autowrap Ltd. has given the safety to the operator the highest priority, but it is still impossible to secure oneself of every danger area on the machine. Therefore we have highlighted below some of the dangers that can occur when using the I70 Bale Shear.

Hydraulic Fluid

Never use your hands to search for hydraulic fluid leaks, use a piece of paper or cardboard for this purpose. Remember that escaping fluids under high pressure can be invisible, but can easily penetrate the skin and cause serious and sometimes permanent injury.

Machine Operation.

Always stop the tractor, lower the attachment to ground level and shut off the engine when leaving the machine.

Never keep the tractor running whilst installing or servicing the Bale Shear.

Safety Shutdown Procedure.

Work of any type on farm machinery is always more dangerous when the tractor is running.

Therefore before cleaning, lubricating, or servicing this unit, the following Safety Shutdown Procedure should always be followed:

1. Move the Tractors drive control and the hydraulic control valve to their neutral positions and idle the engine down.
2. Position the Bale Shear so that it is completely resting on the ground.
3. Engage the tractors parking brake.
4. Move the tractors throttle to slow idle, shut the engine off and remove the ignition key.



It is the responsibility of the operator to ensure that all steps of the I70 Bale Shear operating procedures are followed. Failure to do so may result in the I70 Bale Shear being inadvertently closed or opened due to incorrect installation/operation.

Safety Principles

The blades on the Bale Shear are very sharp. You must always take care to keep any risk of an accident down to a minimum. Please adopt the following safety principles when operating the I70 Bale Shear.

DO NOT Leave the Bale Shear open when not in use.

DO NOT Allow people or animals near any moving parts of the machine.

DO NOT Leave the Bale Shear open if leaving the machine unattended for any length of time, however short it is.

DO NOT Restrict the movement of any moving part of the machine.

DO NOT Drive on the road with the Bale Shear in open position.

Always, as far as possible, make sure there are no foreign objects in the bales which could damage the blades.

Always check the height of the loader boom when entering or leaving a building, or when passing under overhead cables.

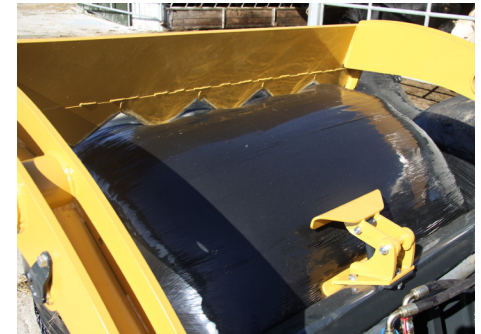
Operating the Bale Shear for Round Bales

Note: Before you use the Bale Shear check the sharpness of the blades if required sharpen with a file

1. With the Bale Shear fully open and with the tines resting on the ground, approach the bale and move the tractor forward until the bale is pressed tightly against the Shear Grabs' main frame.



2. Move the hydraulic control lever to close the shear frame down onto the bale, whilst at the same time the gripper closes and grips the plastic.



3. Transport the bale to where it is to be split and operate the hydraulic control lever to close the Bale Shear so that it pierces the plastic wrap and slices the bale down the centre.



4. Operate the control levers so they are almost fully open the Bale shear, whilst raising the loader to effectively spill the two halves of the bale either onto the feed passage or onto the feeder wagon.



5. Continue raising the loader to strip the plastic wrap, which is still held by the gripper jaws, away from the bale.



6. Dump the plastic wrap in a convenient place where it can be collected for recycling by fully opening the Bale Shear.



Fitting the Bale Shear Bucket

To use the Bale Shear Bucket the attachment kit items must first be fitted. The kit items consist of a plunger pin and linkage which is operated by the film gripper hydraulic cylinder.

1. Fully open the Bale Shear and tilt slightly forward. Approach the bucket with the outer tines in line sockets on the back of the bucket.



2. Level the Bale Shear and drive forward. Then tilt fully back to get the bucket to slide on to the tines.



3. Close the shear frame, this also closes the film gripper hydraulic cylinder which engages the plunger pin in the tab on the back of the bucket.



 4. IMPORTANT

Put the safety chain around the film gripper mounting. This is a very important safety feature as it will ensure that the bucket does not fall off even if the plunger pin is accidentally opened.

5. Open up the shear frame to a height that allows the bucket to be used.
Do not fully open it as this will activate the valve to open the film gripper and also release the bucket.
When operating with the bucket ensure that the film gripper is closed at all times.

6. To remove the bucket, first release the safety chain then full open the shear frame to open the plunger.
Tilt the Bale shear forward to allow the bucket top side off the tines.



When not using the Bale Shear, always make sure that it is left fully closed. Pivot points should be greased at regular intervals via the grease nipples.

Always disconnect all hydraulic lines and close the Bale Shear fully before carrying out any maintenance.

The Bale Shear blades must be kept sharp. Always wear protective clothing, and always use heavy gloves when working on the blades. In normal operation, the blades should only require sharpening if they are damaged. Re-sharpening must only be done with a file. Do not use a portable grinding machine as this will overheat the blades and reduce their sharpness. If damage to the blades is severe, seek advice from your Tanco dealer.

The Bale Shear should be regularly checked for any signs of corrosion or leakage or other damage. This check should include all moving parts, hydraulic components, and the tightness of all fittings, particularly the tines in the main structure.

Before using the Bale Shear, always check that it is clean and that all moving parts are free from obstruction.

GUARANTEE

Subject to hereunder provided, the sellers undertake to correct either by repair or at their election by replacement any defect of material or workmanship which occurs in any of its goods within twelve months after delivery of such goods to first user, with the exception of contractors or commercial users when warranty period is six months.

In respect of 'Bale Shears' the warranty period is for 12 months on non-wearing parts.

The term goods when used in this document means the article or articles described in invoices as sold by the sellers but does not include equipment or proprietary parts or accessories not manufactured by the sellers. The sellers, however, undertake to pass on so far as they legally can to the first user the benefit of any warranty given to the sellers by the suppliers of such equipment, parts or accessories.

This understanding shall not apply to:-

- (a) Any goods that have been sold by the first user.
- (b) Any goods which have been injured by unfair wear and tear, neglect or improper use.
- (c) Any goods the identification marks of which have been altered or removed.
- (d) Any goods that have not received the basic normal maintenance such as tightening of bolts, nuts, tines, hose connections and fittings and normal lubrication with the recommended lubricant.
- (e) The use of any product on tractors exceeding the recommended horsepower.
- (f) Any goods that have been altered or repaired other than on instruction or with the written approval of the seller or to which any part not manufactured or having written approval by the sellers have been fixed.
- (g) Any second-hand goods or parts thereof.

Any allegedly defective part or parts returned to the seller must be sent carriage paid. No claim for repair or replacement will be entertained unless upon discovery of the alleged defect written notification is sent to the Sellers giving, at the same time, the name of the Buyer from whom the goods were purchased and the date of purchase, together with the full details of the alleged defect and the circumstances involved, also the serial number of the machine etc.

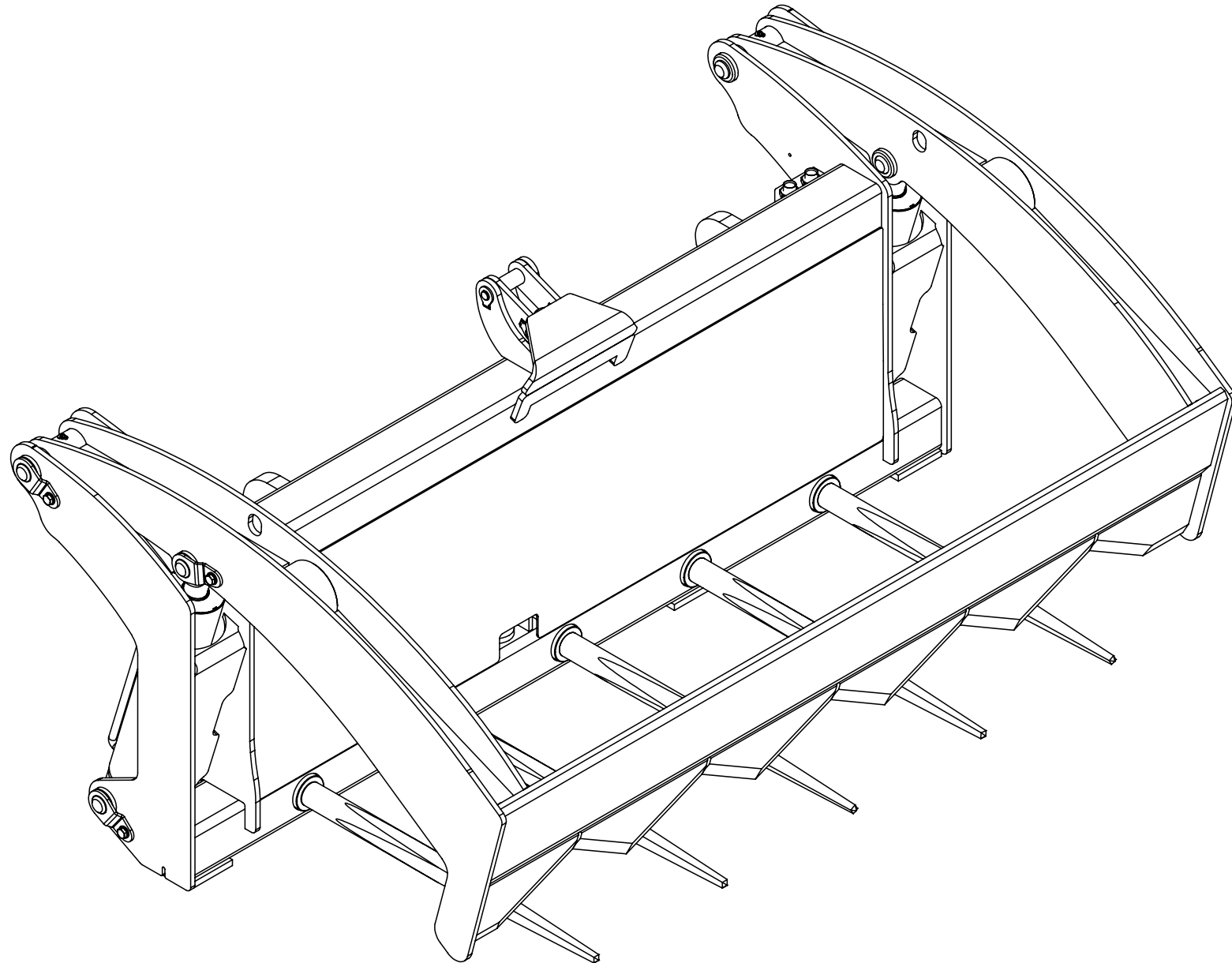
The sellers shall be under no liability to their Buyers and first or subsequent users of their goods or to any other person or persons for loss or damage howsoever arising in respect of either personal injuries or for arising out of, or in any other way connected with or arising from the manufacture sale, handling, repair, maintenance, replacement or use of its goods or the failure or malfunction of any of its goods.

Representation and/or warranties made by any persons (including Buyers and employees and other representatives of the Seller) which are inconsistent or conflicting with these conditions are not binding upon the sellers unless given in writing and signed by a director of sales.

CLAIMS

If you wish to make a claim under the guarantee:

- 1: Immediately, stop using the machine.
- 2: Consult with your Tanco dealer (supplier). He/She can download a warranty claim form on-line. This should be filled out and e-mailed to distributor and forwarded to relevant contact person in Tanco. Please ensure all relevant information is included on this form
- 3: Consult with your Tanco dealer (supplier) and have them forward your claim and the damaged item to Tanco.



I70 Ersatzteilliste

Wir empfehlen, nur Originalteile als Ersatzteile zu verwenden.

Befolgen Sie bei der Bestellung von Ersatzteilen bitte die folgenden Schritte:

1. Stellen Sie anhand der detaillierten Zeichnungen fest, welches Teil Sie benötigen.
2. Haben Sie das benötigte Teil identifiziert, geben Sie die Teilnummer auf dem Bestellschein an, mit dem Sie das/die Ersatzteil/e bestellen.
3. Geben Sie bei jeder Bestellung die Serien- und die Modellnummer Ihrer Maschine an.
4. Alle Bestellungen müssen über Ihren Tanco-Händler vor Ort erfolgen und müssen Tanco Autowrap als Fax oder E-Mail erreichen.

I70 Spare Parts List

We recommend that when you require spare parts you use only original parts.

When ordering spare parts please follow the following steps;

1. Identify the part you require using the detailed drawings.
2. Once you have identified the part you require reference the item number relating to the part on the item list where you will find the part number and description of the part you require. You will be require to give the complete part no and decription when ordering your part(s).
3. When ordering you must give the Serial Number and Model Number of the machine.
4. All orders must go through your local Tanco Dealer, and must be either faxed or e-mailed to Tanco Autowrap.

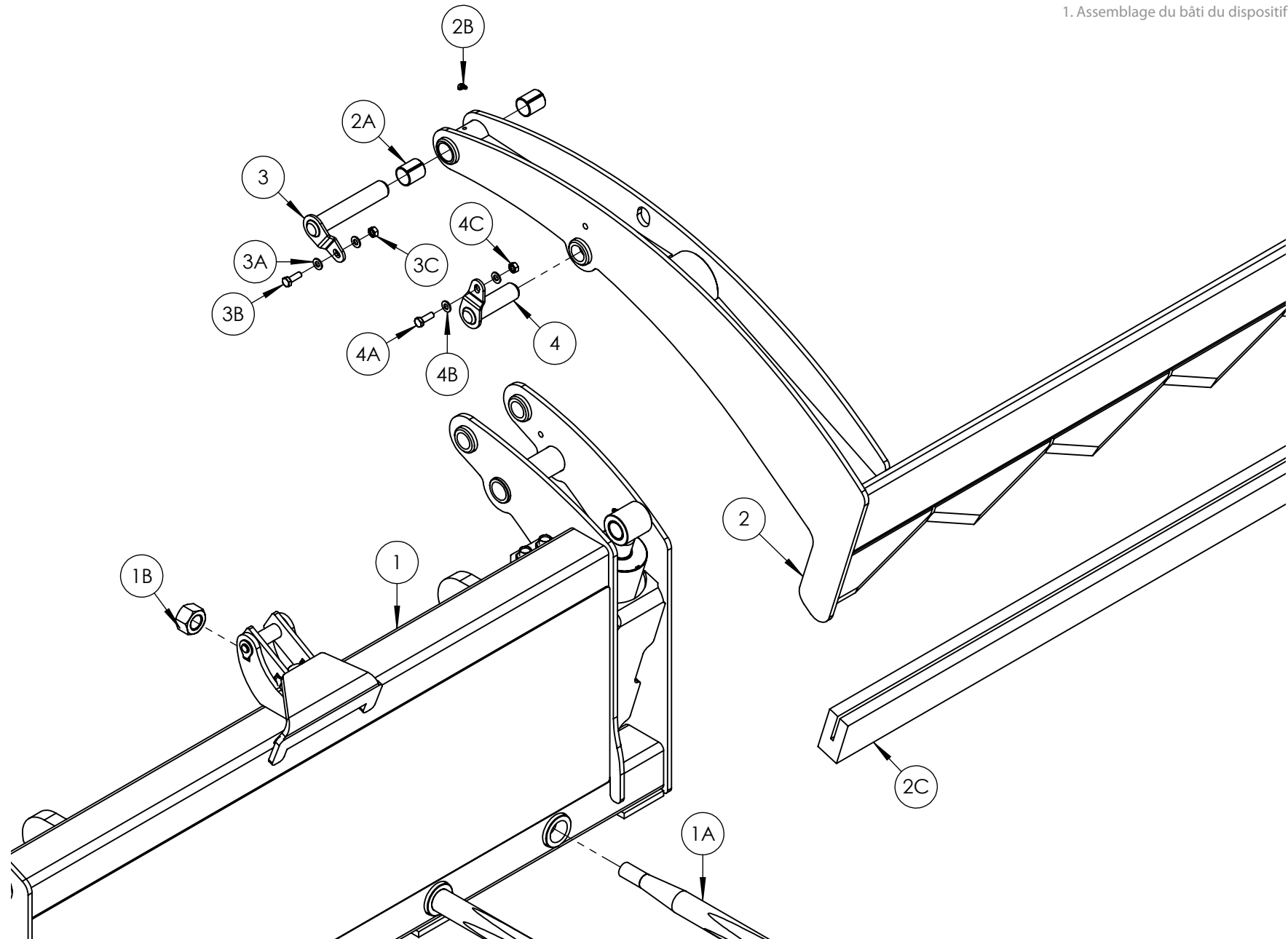
Liste des pièces de rechange I70

Si vous avez besoin de pièces de rechange, nous vous recommandons de n'utiliser que des pièces garanties d'origine.

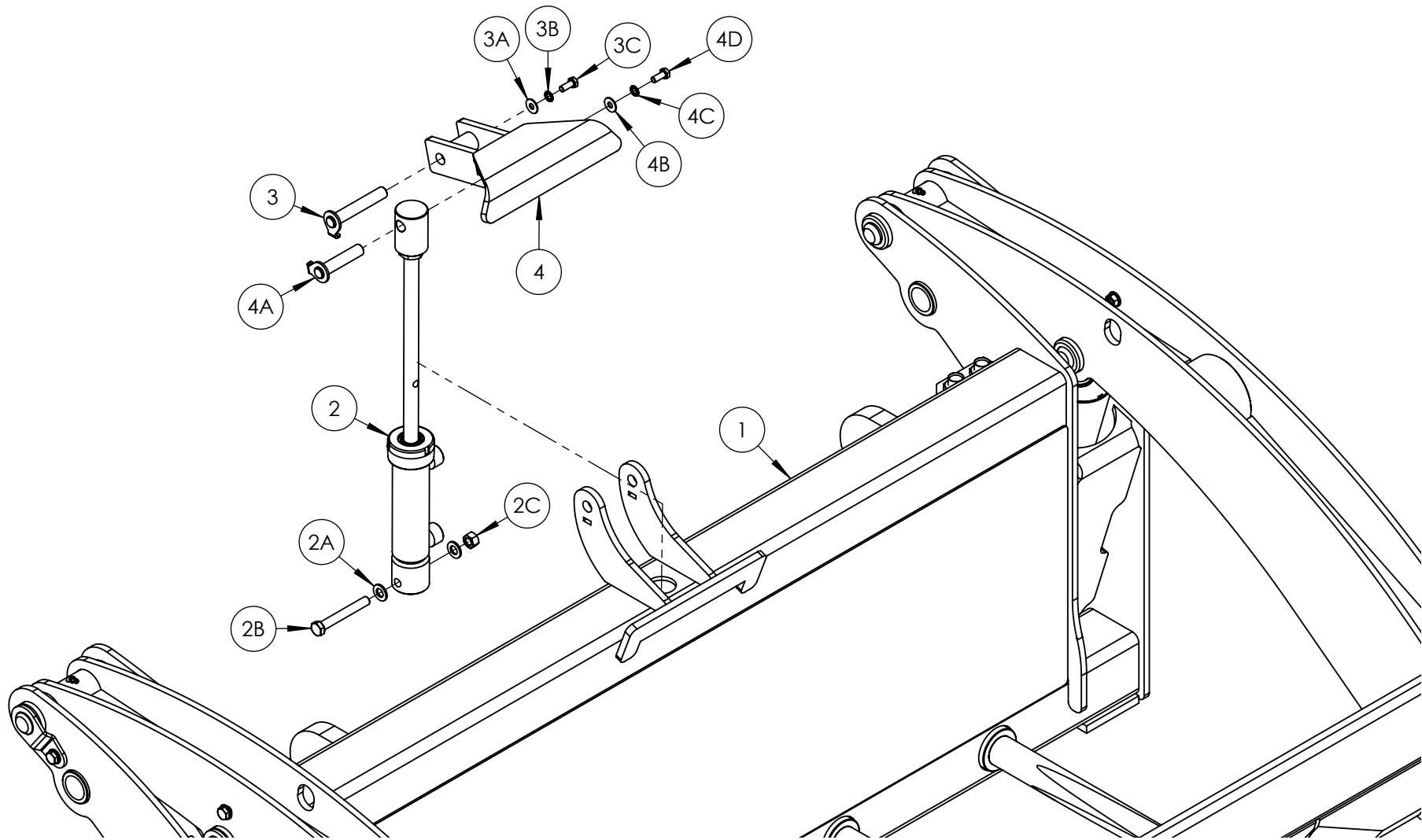
Pour toute commande de pièces de rechange, veuillez suivre les étapes suivantes :

1. Identifiez la pièce dont vous avez besoin à l'aide des schémas détaillés.
2. Après avoir identifié la pièce dont vous avez besoin, relevez son numéro de référence dans la liste des pièces dans laquelle vous trouverez également la description de la pièce requise. Lors de la commande, vous devez indiquer la référence et la description complètes de la pièce.
3. Lors de la commande, vous devrez mentionner le numéro de série et le numéro de modčle de la machine.
4. Vous devez effectuer toutes les commandes auprès de votre revendeur Tanco local et les faxer ou les envoyer par e-mail à Tanco Autowrap.

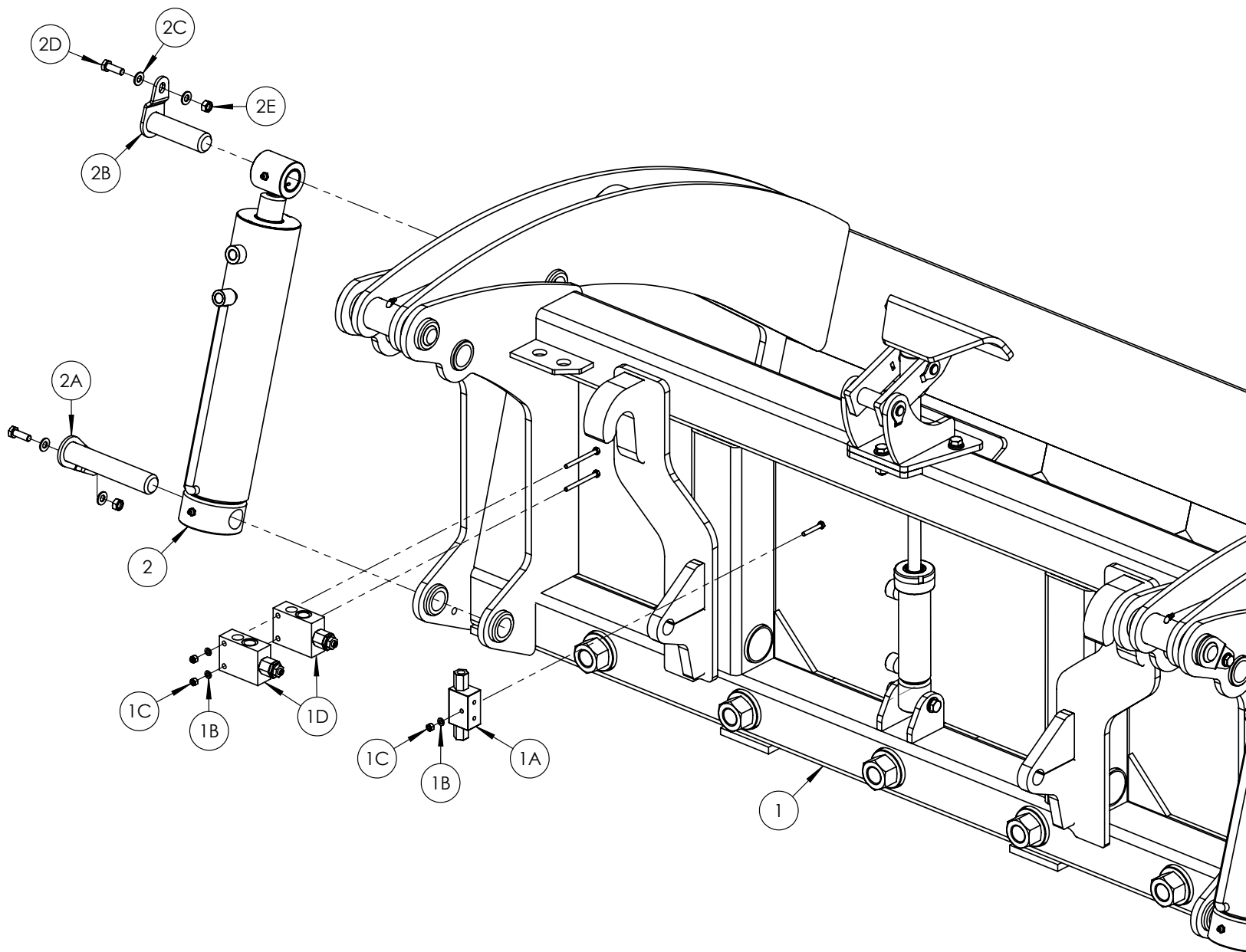
KAPITEL CHAPTER CHAPITRE	SEITE PAGE PAGE	BENENNUNG	DESCRIPTION	DESIGNATION
1	4	Schneidrahmen-Bausatz	Cutter Frame Assembly	Assemblage du bâti du dispositif de coupe
2	6	Greifer-Bausatz	Gripper Assembly	Assemblage de la pince
3	8	Bausatz für Hydraulische Komponenten	Hydraulic Components Assembly	Assemblage des composants hydrauliques
4	10	Behälterbefestigung	Bucket Attachment	Attache du godet



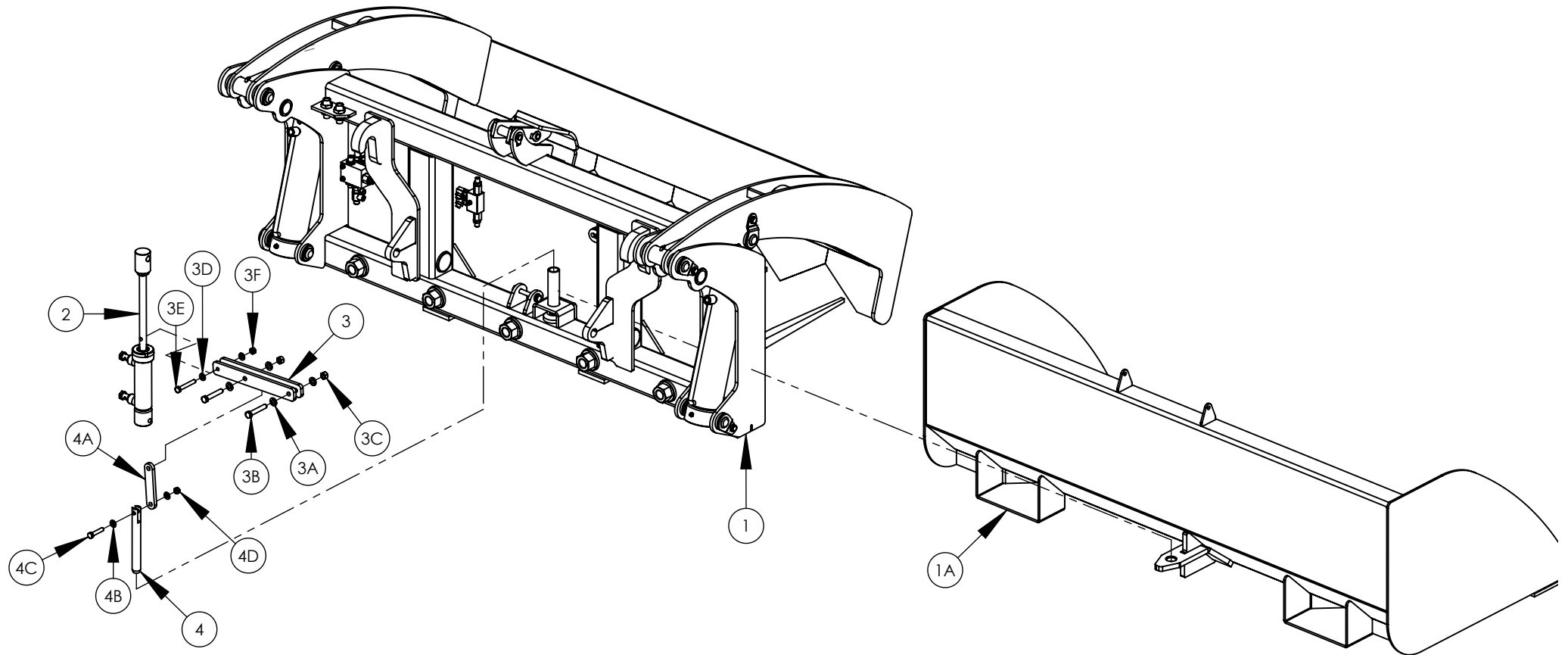
POS. NR. POS. NR. POS. NO.	TEILE NR. PART NR. PIECE NO.	STUCK QUANTITY QUANTITEE	BENENNUNG	DESCRIPTION	DESIGNATION	TECHNISCHE ANGABEN TECHNICAL DATA DONNEES TECHNIQUES
1	7001000	1	Hauptrahmen	Main Frame	Châssis principal	
1A	Z001-072	5	Ballenzinken	Tine	Dent	810mm
1B	Z001-243	5	Zinkenmutter	Tine Nut	Écrou de dent	M20
2	7002000	1	Schneidrahmen	Cutter Frame	Bâti du dispositif	
2i	7004005	4	Klinge Punkt	Blade Point	Pale Point	
2ii	7004006	1	Klinge linke seite	Blade RHS	Pale côté gauche	
2iii	7004007	1	Klinge rechte seite	Blade LHS	Pale côté droit	
2A	Z03-20-34	2	DU-Buchse	DU Bush	DU Bush	32mm ID x 40mm
2B	34061915	1	Schmiernippel	Grease Nipple	Raccord graisseur	M8 (90°)
2C	7005050	1	Klingenschutz	Blade Protector	Protection de lame	
3	7005020	1	Drehstift	Pivot Pin	Axe d'articulation	
3A	Z10-02-10	2	Unterlegscheibe	Flat Washer	Rondelle plate	M10
3B	Z26-063S	1	Sechskant-Set	Hex Set	Vis de régl. Hex	M10 x 35mm
3C	Z23-10	1	Feststellmutter	Locknut	Contre-écrou	M10
4	7005010	1	Zylinderstift	Cylinder Pin	Goupille du vérin	
4A	Z10-02-10	2	Unterlegscheibe	Flat Washer	Rondelle plate	M10
4B	Z26-063S	1	Sechskant-Set	Hex Set	Rondelle plate	M10 x 35mm
4C	Z23-10	1	Feststellmutter	Locknut	Vis de régl. Hex	M10



POS. NR. POS. NR. POS. NO.	TEILE NR. PART NR. PIECE NO.	STUCK QUANTITY QUANTITEE	BENENNUNG	DESCRIPTION	DESIGNATION	TECHNISCHE ANGABEN TECHNICAL DATA DONNEES TECHNIQUES
1	7001000	1	Hauptrahmen	Main Frame	Châssis principal	
2	7008020	1	Greifzylinder	Gripper Cylinder	Vérin de la pince	
2A	Z10-02-12	2	Unterlegscheibe	Flat Washer	Rondelle plate	M12
2B	Z26-091B	1	Sechskant-Set	Hex Bolt	Boulon Hex	M12 x 90mm
3	7005030	1	Greifer-Drehstift	Gripper Pivot Pin	Axe d'articulation	
3A	Z11-02-081	1	Dichtring	Mud Washer	Rondelle de pare-boue	M8
3B	Z12-02-08	1	Federscheibe	Sping Washer	Rondelle à ressort	M8
3C	Z26-039S	1	Sechskant-Set	Hex Set	Vis de régl.	M8 x 20mm
4	7003200	1	Oberer Kunststoffgreifer	Plastic Top Grab	Saisie du haut plastique	
4A	7005040	1	Greifzylinderstift	Gripper Cylinder Pin	Goupille du vérin de pince	
4B	Z11-02-081	1	Dichtring	Mud Washer	Rondelle de pare-boue	M8
4C	Z12-02-08	1	Federscheibe	Sping Washer	Rondelle à ressort	M12
4D	Z26-039S	1	Sechskant-Set	Hex Set	Vis de régl. Hex	M8 x 20mm



POS. NR. POS. NR. POS. NO.	TEILE NR. PART NR. PIECE NO.	STUCK QUANTITY QUANTITEE	BENENNUNG	DESCRIPTION	DESIGNATION	TECHNISCHE ANGABEN TECHNICAL DATA DONNEES TECHNIQUES
1	7001000	1	Hauptrahmen	Main Frame	Châssis principal	
1A	7008040	1	Doppel-Lasthalteventil	Dual Overcentre Valve	Soupape double à détente brusque	
1B	Z10-02-06	3	Unterlegscheibe	Flat Washer	Rondelle plate	M6
1C	Z23-06	3	Feststellmutter	Locknut	Contre-écrou	M6
1D	7008030	2	Stufenventil	Sequunce Valve	Soupape de séquence	
2	7008010	1	Zylinder	Cylinder	Vérin	
2A	7005020	1	Schneid-Zylinderstift	Cylinder Pin	Goupille du vérin	
2B	7005010	1	Schneid-Zylinderstift	Cylinder Pin	Goupille du vérin	
2C	Z10-02-10	4	Unterlegscheibe	Flat Washer	Rondelle plate	M10
2D	Z26-063S	2	Sechskant-Set	Hex Set	Vis de régl. Hex	M10 x 35mm
2E	Z23-10	2	Feststellmutter	Locknut	Contre-écrou	M10



POS. NR. POS. NR. POS. NO.	TEILE NR. PART NR. PIECE NO.	STUCK QUANTITY QUANTITEE	BENENNUNG	DESCRIPTION	DESIGNATION	TECHNISCHE ANGABEN TECHNICAL DATA DONNEES TECHNIQUES
1	7001000	1	Hauptrahmen	Main Frame	Châssis principal	
1A	7003300	1	Behälterrahmen	Bucket Frame	Châssis du godet	
2	7008020	1	Greifzylinder	Gripper Cylinder	Vérin de la pince	
3	7003310	1	Kolbenhalterung	Plunger Bracket	Support de piston	
3A	Z10-02-12	4	Unterlegscheibe	Flat Washer	Rondelle plate	M12
3B	Z26-089B	2	Sechskantbolzen	Hex Bolt	Boulon Hex	M12 x 70mm
3C	Z23-12	2	Feststellmutter	Locknut	Contre-écrou	M12
3D	Z10-02-10	2	Unterlegscheibe	Flat Washer	Rondelle plate	M10
3E	Z26-068B	1	Sechskantbolzen	Hex Bolt	Boulon Hex	M10 x 70mm
3F	Z23-10	1	Feststellmutter	Locknut	Contre-écrou	M10
4	WA89-014	1	Kolbenstift	Plunger Pin	Goupille	
4A	7003313	1	Schwenkhalterung	Pivot Bracket	Support de pivot	
4B	Z10-02-10	2	Unterlegscheibe	Flat Washer	Rondelle plate	M10
4C	Z26-066S	1	Sechskant-Set	Hex Set	Vis de régl. Hex	M10 x 50mm
4D	Z23-10	1	Feststellmutter	Locknut	Contre-écrou	M10