



EXG480X

GRAIN BAG UNLOADER



USER'S MANUAL

OPERATION, MAINTENANCE
AND SPARE PARTS

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GUARANTEE TERMS

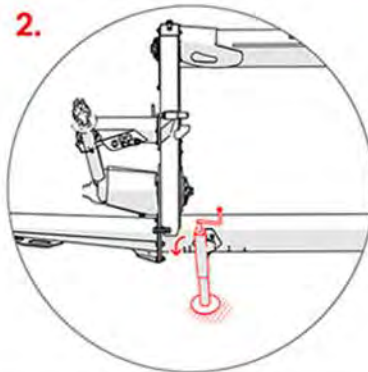


OPTIONAL

QUICK GUIDE

EXG 480 X EXTRACTOR OPERATION

1. Connect the unloader towbar to the tow tractor.
2. Mechanically operate the support leg to be able to adjust the proper towbar height.
3. Stop the tractor and couple the cardan shaft.



4. Center the tractor and unloader on the grain bag

5. Hydraulic fittings admit only one coupling position. If the circuit fails to work, hydraulic fittings should be inverted.
6. Pull up the spring-loaded locking pin at the front of the chassis to release the roller. Then, swing the roller into operating position and put down the supporting arm to lock it.



WORKING HEIGHT // 100/120 mm ↓

Ground clearance should be between 100 mm and 120 mm (when working on irregular terrain ground clearance should be higher to prevent grain bag damage).

8. Move the AUGER lever (located in the hydraulic commands).
9. Clean the area below the auger. Move the ROLL lever to start operating
10. (located in the hydraulic commands).



11. To pause operation it is necessary to stop roller rotation first and then auger rotation. To start the unloading process it is necessary to proceed the other way round.

12. Grain pusher position. When normal operation is taking place, the grain pusher should be placed at 100/150 mm."



13. At 1 m from the end of the bag it is necessary to:

Decrease the roller speed



Lower ground clearance until the machine is almost touching the ground.



Place the grain pusher against the tube.



14. Before the grain bag breaks, lift the machine and cover the ground.



3. Activate and deactivate the roller in an intermittent way to allow the augers to extract the remaining grain. Example, **A.** Auger extracting grain - Deactivate the roller **B.** Empty auger - Activate the roller

15. Keep the auger rotating for about 2 to 3 minutes without having the roller rotating. Keep moving forward until the grain bag fully brakes. "



16. Finally, disengage the roller. It should move freely. Drive the tractor forward slowly until the bag is fully unrolled.



INTERRUPTIONS IN EXTRACTION

If it is necessary to pause the extraction once the truck or trailer is full, follow these instructions:

1. ALWAYS interrupt first the hydraulic system (that is, stop the roller rotation). When the hydraulic system is paused, the tractor driver should be ready for the tractor-unloader combination to stop to prevent any damage due to inertia.
2. Then, keep the augers rotating for a few seconds to decompress the grain bag. This way overloads can be prevented when restarting the operation.



3. Finally, after those few seconds interrupt the cardan shaft transmission of power. It is very important to always follow the indicated order for this procedure. Otherwise, the bag would continue to be wound up without grain extraction, which could cause damage and / or breakdowns to the machine.

RECOMENDACIONES

To restart the extraction process, the order of the instructions should be inverted, that is, first operate the augers and last the hydraulic system. If the hydraulic system is not working even when the hydraulic fittings are properly connected, check that the speed control valve is not closed. For travel, place the cylinder stop (longer) on the cylinder rod and release the roller holder spring-loaded locking pin.

Once the working height has been adjusted, fix that position with the shorter stop (EXG 480X) and the rod threaded stop.

Check the oil level on gearwheels (SAE 80w-90).

After unloading 2 grain bags, tighten and lubricate the chains.

Change the cutting knife when not working properly.

The remaining grain at the end of the bag unloading process will depend on the bag closure method.

When cutting the grain bag, it is important to always make a horizontal cut first before any vertical cuts are made.



Check our website for further information on the schedule of MANUALS AND SPARE PARTS:
<https://akrongrainbagging.com/>
You can also find a QR code (and a password) to access our website, in your AKRON machine.

SAFETY

Safety aspects for the operator, for third parties and surrounding goods before the operation of the machine.

START

Even though the machine's operation is simple and safe, it is essential that all bagging machine operators and supervisors read this user's manual and have an in-depth knowledge of its contents. In this way, situations of danger will be avoided for the operator, for third parties and for any goods in the surrounding area



3-A. ATTITUDE TOWARD SAFETY

The most important for preventing accidents of any kind is

- The positive attitude - As well as observing the manufacturer's recommendations
- Be the habit must be developed of foreseeing and analyzing every possible contingency.

3-B. "ATTENTION" SYMBOL AND SIGNAL WORDS

Throughout the present manual, the "Attention" symbol is used to indicate risk situations for the operator, the machine, other equipment or other people. This symbol will appear together with certain signal words depending on the relative seriousness of each risk situation.



DANGER

This identifies an imminent hazardous situation



WARNING

This identifies a potential hazardous situation



IMPORTANT

This describes a particular situation where the machine could be damaged or its normal operation could be affected.



3-C. PERSONAL PROTECTIVE EQUIPMENT

Akron S.A. recommends the use of the following personal protection items to prevent possible injury.

Tractor Driver	Machine operator
	1
2	2
3	3



1



2



3

3-D. SAFETY WARNINGS

On different parts of the machine and on its accessories you will find decals with accident prevention symbols, which must be considered as part and extension of the instructions detailed in this manual. Special care must be taken to ensure these decals are present and legible during the entire working life of the machine. If for any reason any of these gets lost or becomes illegible through wear, it is important to replace it immediately indicating its corresponding code. To ask for a replacement decal, please contact either the manufacturer using the information given in 4-b. "Contact information", or your local Technical Representative.

3-E. RISK ANALYSIS

The risk situations that typically arise during the operation of this machine are detailed below. Recommendations are made that are of vital importance for the safety of the machine operators, of other workers nearby, and the machine itself. The pictograms used are taken from IRAM standard 8075 "Tractors, agricultural and forestry and green space maintenance machinery - Safety signs and hazard pictograms - General principles and features". For more details, their location on the machine is shown in the following picture.

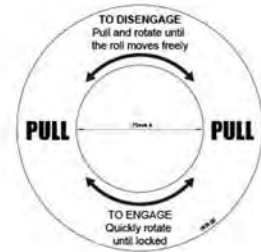
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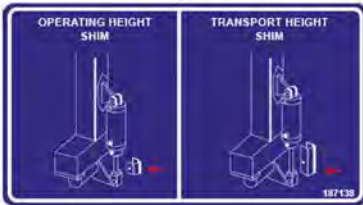
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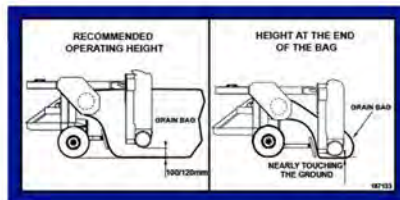
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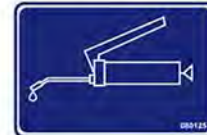
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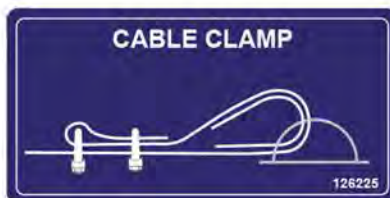
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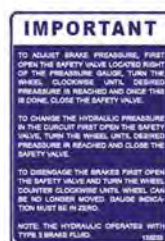
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IMPORTANT

CHECK AND RETIGHTEN SCREWS AND NUTS ON THE MACHINE AFTER THE FIRST OPERATING HOURS. AFTERWARDS, REFER TO THE OPERATOR'S MANUAL.

LUBRICATE GREASING POINTS AND CHAINS BEFORE STARTING THE MACHINE. AFTERWARDS, REFER TO THE OPERATOR'S MANUAL.

114158

98.682.114187

WARNING



BEFORE DISCONNECTING THE MACHINE FROM THE TRACTOR, CHECK THE SUPPORT LEG IS INSTALLED.

114187

98.682.126750

WARNING

When parking pointing down a slope or against it, the brake must always be applied, or otherwise the machine will move.

126750

RECEIVING THE MACHINE



The grain extractor **AKRON®** model **EXG 480 X** is delivered almost ready for operation. Only a number of verifications related to transport issues be taken into account upon receiving the machine.

- 1 All the machine components must be checked to be present and in good operating conditions and all the mechanisms should be operative.
- 2 All the safety guards and protections should be present and in good conditions (e.g., the lifting auger lock pin, the drawbar cover, etc.)

4-A. IDENTIFICATION OF YOUR BAGGING MACHINE

When ordering replacement parts or requesting technical assistance or information, always provide the following details for product identification purposes:

- Model
- Mass (kg)
- Serial #

This information is engraved on the identification plate located on the wheel chassis.



NOTE: The data, specifications and illustrations in this manual are based on the information available at the time it was written. Due to the continuing improvements in the design and manufacture of AKRON® products, AKRON S.A. reserves the right to modify components and/or specifications without prior notice. Figures are only for illustration purposes, no measures should be taken on the drawings.

4-D. CONTACT INFORMATION

AKRON S.A.

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ARGENTINA

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ADMINISTRATION: +54 9 3564 330120 - admi@akron.com.ar





PREPARATION AND SETUP



SCAN ME
TO WATCH THE VIDEO

4C. OPERATING PRINCIPLE

The main functions of the machine are described below, as well as the elements used to perform each of them.

WATCH THE ANIMATION PREPARATION AND SETUP



WATCH THE ANIMATION RECOMMENDATIONS TO EASE SUBSEQUENT EXTRACTION



RECOMMENDATION TO EASE SUBSEQUENT EXTRACTION



SCAN ME
TO WATCH THE VIDEO

SETUP FOR EXTRACTION

GENERAL COMMENTS ON THE STORAGE IN GRAIN BAGS

AKRON S.A. includes in the present manual a number of recommended operating rules based on the experience gathered from several rural producers. Therefore, it must be noted that both the order and the details of each one of the explained operations and procedures should be respected, since the success of the extraction operation.

B-B. STARTING THE OPERATION.

With the machine and the grain bag prepared as explained in the previous section, the extraction can be started, taking into account the following steps: The following figure shows the layout of all the equipment involved in the extraction process.



Check that the unloading tube is oriented towards the grain transport vehicle.



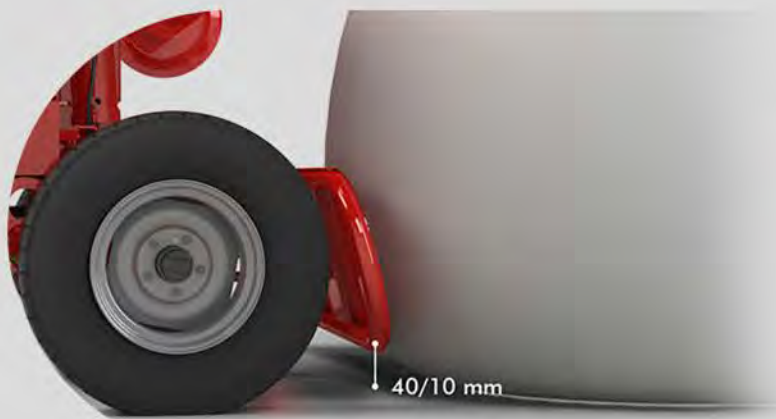
1

Engage the cardan shaft and gradually increase the PTO speed until reaching 540 rpm.

2

Operate the roller hydraulic command to start winding up the grain bag (like in the quick guide). Grain will start to flood the cross-augers to then flow up through the vertical auger until the reaching the discharge spout. Finally, it will fall into the transport vehicle. Use the flow control valve to gradually increase the speed until the desired working pace is reached. The idea is to reach a proper speed to achieve a good performance. Excessive speed can cause grain build-up by the roller. flow control valve roller hydraulic command





3

Check that the grain pusher ground clearance is not higher than 40 mm and lower than 10 mm. If necessary, use the hydraulic command to adjust the height and set it with the height cylinder nut.

PAUSE OPERATION



4 If the grain bag unloading process needs to be paused, ALWAYS interrupt first the hydraulic system (that is, stop the roller rotation). To prevent any damage due to inertia, when the hydraulic system is paused, the tractor driver should be ready for the tractor-unloader combination to stop.



5 Then, keep the augers rotating for a few seconds to decompress the grain bag. This way overloads can be prevented when restarting the operation.



! It is very important to always follow the indicated order for this procedure. Otherwise, the bag would continue to be wound up without grain extraction, which could cause damage and/or breakdowns to the machine. Bear in mind that, depending on the condition of both the grain bag and grain, it is possible to increase the roller speed to achieve the best unloading capacity.



REACHING THE END OF BAG

It is significant to reach the end of the grain bag with the unloader as centered as possible

SPEED OF ROLLER
ROTATION

LOAD SPEED - UP
PUSHER

When reaching the end of the grain bag (two last meters), decrease the speed of roller rotation. Operate the "Load speed-up Pusher" command to place the grain the cross-augers as possible and be able to accumulate the grain near the augers.

Let the machine move forward until the grain bag fully breaks. This is the end of the procedure. In case the grain bag breaks when the augers are rotating at 540 rpm, interrupt the roller operation with the hydraulic command. Wait until the augers are free from grain; then, move the grain pusher forward to allow the extraction of the remaining grain. Place the pusher back to the stored position to reduce pressure of grain against the bag and restart the roller operation with the hydraulic command. It is significant to reach the end of the grain bag with the unloader as centered as possible.



END OF THE UNLOADING PROCESS AND BAG REMOVAL

*To finish the unloading process and remove the grain bag operate the roller in the opposite direction. This will help to release pressure from the grain bag. Within the roller drive, there is a system to disengage the roller clutch. For instructions on how it works, refer to the animation.

This way, the roller can move freely allowing the bag to be unrolled. If necessary, grasp the bag while being unrolled.

- 1 To disengage the roller, open the roller drive door.
- 2 Pull on the handles and rotate it until it locks in the open position.
- 3 Drive the tractor forward until the bag is fully unrolled.



SCAN ME

TO WATCH THE VIDEO



MAINTENANCE

CARE PROCESSES FOR THE CORRECT OPERATION OF THE MACHINE



7. MAINTENANCE PROGRAM

Due to the simplicity of this machine's mechanisms, the only necessary maintenance tasks are the ones detailed below. They are based on a normal machine operation.

7-A. MAINTENANCE SCHEDULE

Maintenance tasks that should regularly be performed are detailed in the attached tables. The effectiveness of the proposed maintenance program depends on the written records of every single activity performed on the machine.

ASSEMBLIES		NUMBER OF BAGS										
		2	10	20	30	40	50	60	70	80	90	100
GENERAL	TIRES	CHECK		CHECK		CHECK		CHECK		CHECK		CHECK
	KNIFE TO CUT THE BAG	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK	CHECK
	RIMS BOLT TIGHTENING	TIGHTEN										TIGHTEN
	STRUCTURE BOLT TIGHTENING	TIGHTEN					TIGHTEN					TIGHTEN
	WHEEL HUB TIGHTENING		TIGHTEN									CHECK
AUGERS	VERTICAL AUGERS						CHECK					CHECK
	UNLOADING AUGERS						CHECK					CHECK
	HORIZONTAL AUGERS						CHECK					CHECK
	HORIZONTAL AUGER COUPLINGS						CHECK					CHECK
	PRIMARY VERTICAL AUGER COUPLER						CHECK					CHECK
TRANSMISSION	ANGULAR GEARBOX + SQUAD	OIL LEVEL AND GREASE					OIL LEVEL AND GREASE					OIL REPLACEMENT
	1ST FRONT CHAIN	TIGHTEN GREASE	TIGHTEN GREASE				TIGHTEN GREASE					CHECK GREASE
	SQUAD BOX	OIL LEVEL	OIL LEVEL				OIL LEVEL					OIL REPLACEMENT
	ROLL CHAIN	TIGHTEN	TIGHTEN				TIGHTEN					TIGHTEN
	GRAIN BAG ROLL	GREASE	GREASE				GREASE					GREASE
	FRONT CARDAN SHAFT	GREASE	GREASE				GREASE					CHECK
	REAR CARDAN SHAFT	GREASE	GREASE				GREASE					CHECK GREASE

ASSEMBLIES	NUMBERS OF BAGS												
	2	10	20	30	40	50	60	70	80	90	100		
BEARINGS AND HOLDERS	FRONT INLET SHAFT BEARING HOLDER	GREASE				GREASE						GREASE	
	FRONT TRANSMISSION UPPER BEARING HOLDERS	GREASE				GREASE						GREASE	
	REAR TRANSMISSION UPPER BEARING HOLDER	GREASE				GREASE						GREASE	
	CENTRAL DOUBLE STRAND SPROCK BEARINGS (REAR TRANSMISSION)	SHIELDED BEARINGS											
	BEARINGS IN THE FRONT AND REAR TRANSMISSION TENSIONERS	SHIELDED BEARINGS											
	HORIZONTAL AUGER BEARING HOLDERS	GREASE				GREASE							GREASE
	PRIMARY VERTICAL AUGER COUPLER BEARING HOLDER	GREASE				GREASE							GREASE
	SECONDARY VERTICAL AUGER BEARING HOLDER	GREASE				GREASE							GREASE
	GRAIN BAG ROLL BEARING HOLDERS	GREASE				GREASE							GREASE CHECK
	WHEEL HUB BEARING	GREASE	TIGHTEN			GREASE							GREASE
	WHEEL HUBS REAR BEARING SUPPORT	GREASE				GREASE							GREASE

HYDRAULICS	PUNTERAS ACOLPES RÁPIDOS	CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL
	MANGUERAS HIDRÁULICAS											CONTROL
	CILINDRO HIDRÁULICO DE ALTURA											CONTROL
	CILINDRO HIDRÁULICO DE ACELERADOR DE CARGA											CONTROL
	CILINDRO HIDRÁULICO DE TUBO VERTICAL SECUNDARIO											CONTROL
	MOTOR HIDRÁULICO DE CAJA REDUCTORA DEL ROLO											

Frequency: Daily or before beginning any working day

Condition to verify	Normal situation	Correction method
General machine condition.	Free movements in general, reasonable cleanliness of the main components.	Eliminate the causes of possible restrictions imposed on the movements; remove any dirt that could hinder the machine's operation
Condition of the vertical auger and horizontal augers	Free from obstructions or excessive dirt	Eliminate possible obstructions or dirt located inside the tube or on the horizontal augers
Tyre pressure	Between 35 and 40 lb/in ² (2,5 and 2,8 kg/cm ²).	Adjust tyre pressure.

7-B. MAINTENANCE AFTER RECEIVING THE MACHINE

After some 30 hours of continuous operation, it is essential to re-tighten all the machine's screws using the following torque values recommended for SAE grade 5 zinc plated screws:

Size	Torque [kgm - N.m (ft.lb)]
1/4" - 20	0,96 - 9,5 (7,03)
5/16" - 18	2,03 - 20 (14,81)
3/8" - 16	3,61 - 35,5 (26,29)
7/16" - 14	5,81 - 57 (42,22)
1/2" - 13	8,86 - 87 (64,44)
9/16" - 12	12,74 - 125 (92,59)
5/8" - 11	17,58 - 172 (127,77)
3/4" - 10	31,29 - 307 (227,40)

Specific torque

* Stud bolts

Size	Torque [kgm - N.m (ft.lb)]
1/2" NF	14,28 - 140 (103,70)

* Towar

Size	Torque [kgm - N.m (ft.lb)]
5/8" RW	19,38 - 190 (140,73)

7-C. PARTS BREAKDOWN FOR REPAIRS.

All the extractor movable part breakdowns are detailed in this manual with the related spare part lists. The user will be able to: disassemble, change, and, at a later time, reassemble each assembly and subassembly included as from page 61 (transmission, rolling system, primary vertical auger, secondary vertical auger, mechanical jack, square drive gearbox, reduction gearbox, load speed-up pusher, hydraulic circuit).

7-D. LUBRICATION

The use of lithium grease # 2 NLGI 2 is recommended for the lubrication ports and SAE 80W90 oil is recommended for the gearboxes. (*) Check chain tension every time chains are lubricated, and correct in any case as necessary.

7-E. PREVENTION OF WEAR ON FLEXIBLE PIPES

Take into account the following items for a better use and care of the flexible pipes included in the machine:

- 1 Visually inspect the hydraulic circuit hoses and accessories related to the flow gate operation and to the folding/unfolding of the auger tube. They should not have leakages. Keep them from touching sharp objects. Do not tread on hoses and keep them from being strangled.
- 2 Check that the helical tape covering the hydraulic circuit is in good condition, since it is meant to prevent fluid from hitting the operator if a pipe brakes.

WARNING: Avoid leakage of fluids underpressure.

IMPORTANT: To grease objects that are at a certain height, use a ladder or any other auxiliary device

7-F. TIRE CHANGE

Complete the following steps:

- 1 Slightly loosen the wheel nuts.
- 2 Lift the machine using a mechanical or hydraulics jacks.
- 3 Once the grain extractor has been lifted,

SPECIFICATIONS

TECHNICAL DETAILS OF THE EXG 480 X GRAIN EXTRACTOR

9-A. LIST OF MAIN COMPONENTS

Tare : 2830 kg 6239 lb

Working Capacity : 360 tn/hr.

Operation : 67,10 kw (minimo 90 HP), 9-feet bags (with option to 10 feet).

Auger Tube : Ø 430 mm Horizontal

Auger : Ø250mm Recommended operating

Height : 100/120 mm

Height Adjustment : Enough to absorb the hitch variations.

Tractor PTO speed : 540 v/min

Tires : 400 x 60 x 15,5"

Hydraulics : 180 to 200 BAR, 60LPM (with all options installed).

Pressure 180 to 200 BAR.(2610 - 2900 psi).

Dimensions

(ØT) Auger. Tube Diameter: 430mm

(A) - Horizontal Auger Width: 3400 mm

(R) - Roll Width : 5368 mm

(AV) - Transport Width: 2850 mm

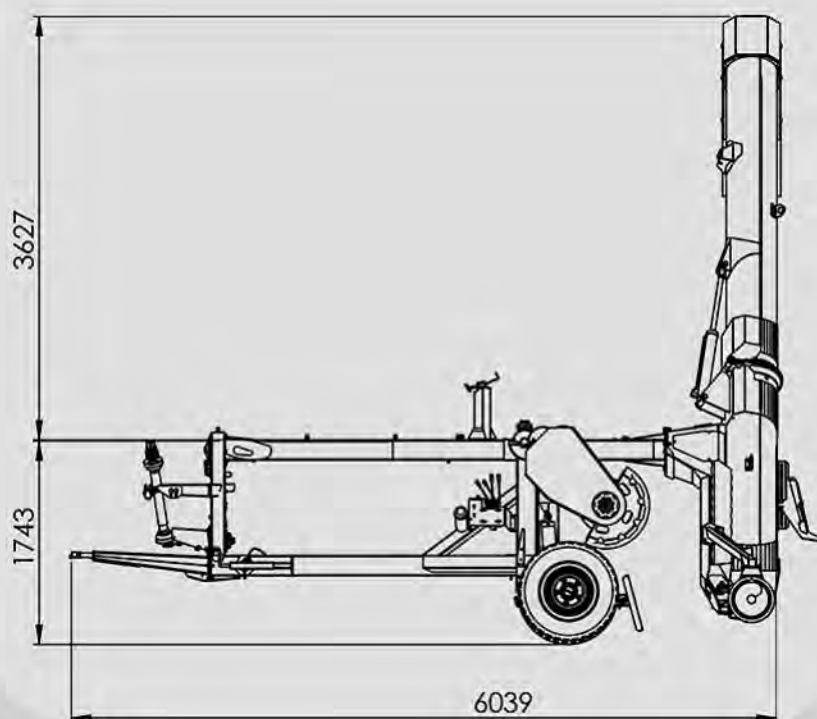
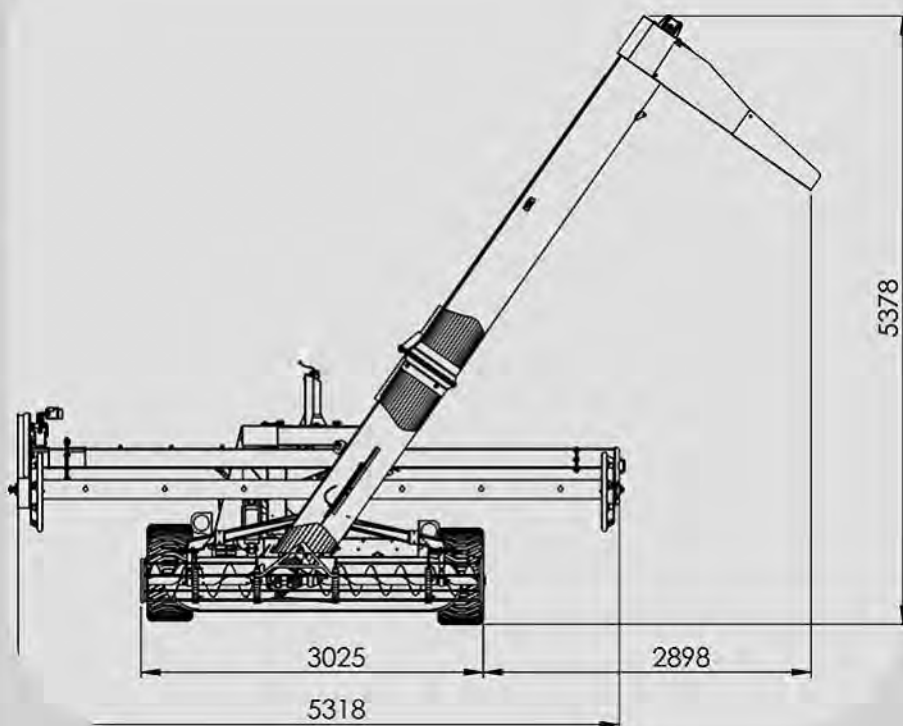
(LT) - Transport Length: 6015 mm

(C) - Side clearance: 1350 mm

(D) - Operating Height Clearance: 4450 mm **(H)** -

Transport Height: 2850

(HT) - Operating Height: 5800



GUARANTEE TERMS



11. GUARANTEE TERMS

TERMS AKRON S.A. guarantees the AKRON® EXG 480 X mechanical grain extractor for a one-year period since the date in which the new unit is delivered to the customer. If the AKRON® EXG grain bag unloader is used at storage sites and/or for machine rental, the guarantee period will be limited to 90 days from the delivery date. This guarantee covers defects in materials used to manufacture the machine, provided that the grain bag unloader has been properly operated. The operating procedures considered appropriate are those described in this manual.

This guarantee does not cover the following:

Damages or failures as a result of improper operation or lack of machine maintenance that may occur during transport, operation, or parking from the delivery date. Tires are warranty of the tire manufacturer Normal wear of parts due to their use. Their replacement is part of the preventive maintenance .

. AKRON S.A. is not responsible for any repair made by third parties, or damages resulting from this cause

. AKRON S.A. reserves the right to modify specifications and designs without previous notice and without the obligation to implement these changes in the machines already delivered.

For a good machine performance, AKRON S.A. recommends meeting the following conditions:

Dry, clean grain (13,5% moisture content at reception).

Undamaged bag (without mechanical damage resulting from hail, stubble or animals).

It has been noticed that the machine performance decreases when storing hulled grain since there are different degrees of abrasion.

Therefore, some grains will flow less smoothly than others.

Damages caused during machine operation by any person whose abilities are affected or reduced will not be covered.

If the machine is sold by the first owner within the guarantee term validity, this will be transferred to the new owner, provided that Micron Fresar S.R. is advised by written notice. Such guarantee will not be valid if the current owner of the machine (not being the original buyer of the product) has not advised AKRON S.A. in due time.

The guarantee will automatically become invalid if any of the parts of the machine is modified or replaced by spare parts not provided by AKRON S.A. If such replacement or structural modification was urgently necessary, the user must obtain written approval from AKRON S.A. to make such changes without affecting these guarantee terms.

In order for the guarantee to come into force, it is an essential condition to submit a request for guarantee repair together with the following information:

Name:

Date in which the damage occurred:

City:

Phone Number:

Machine Model:

Serial Number:

Invoice Number:

OPTIONAL EXG480X



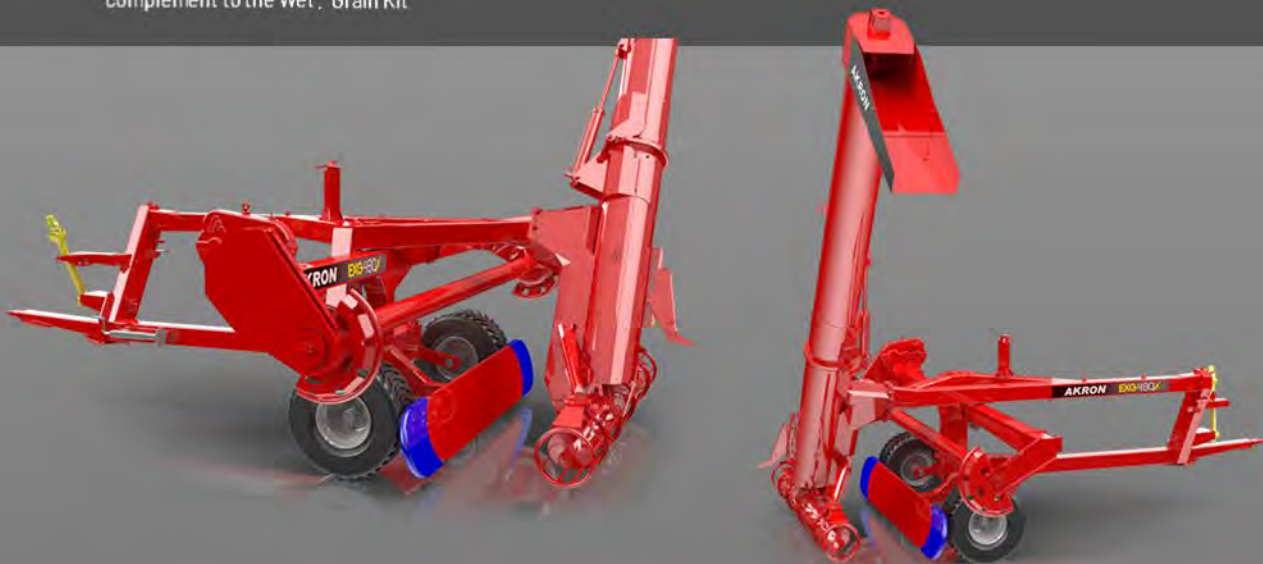
HYDRAULIC SPOUT

It is possible to discharge grain to different directions thus allowing a better distribution of grain in the grain cart or truck.



PUSHER EXTENSION KIT

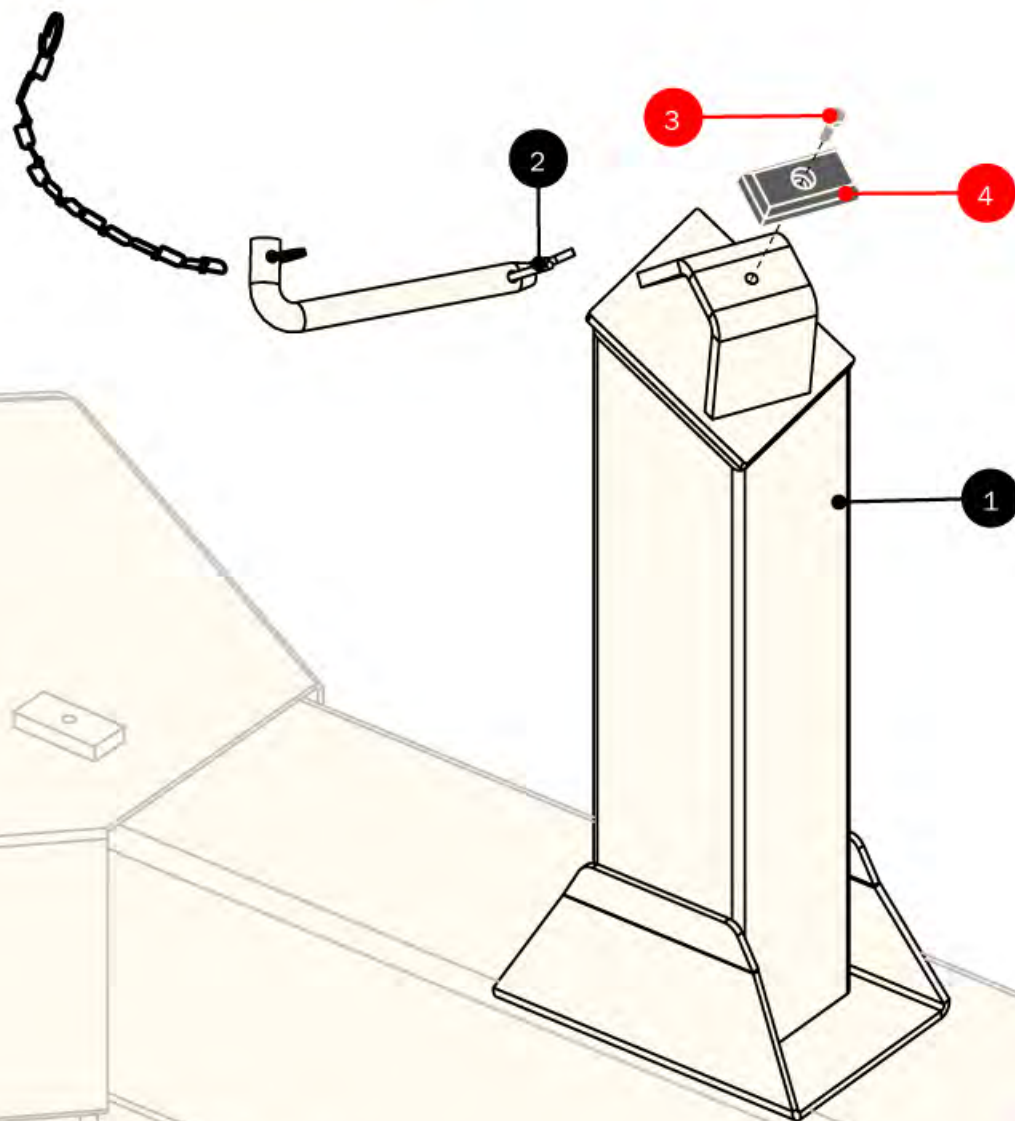
A longer pusher allows an easier unloading task in case of tough grain. It makes it easier to fully empty the grain bag. This feature is a good complement to the Wet Grain Kit.



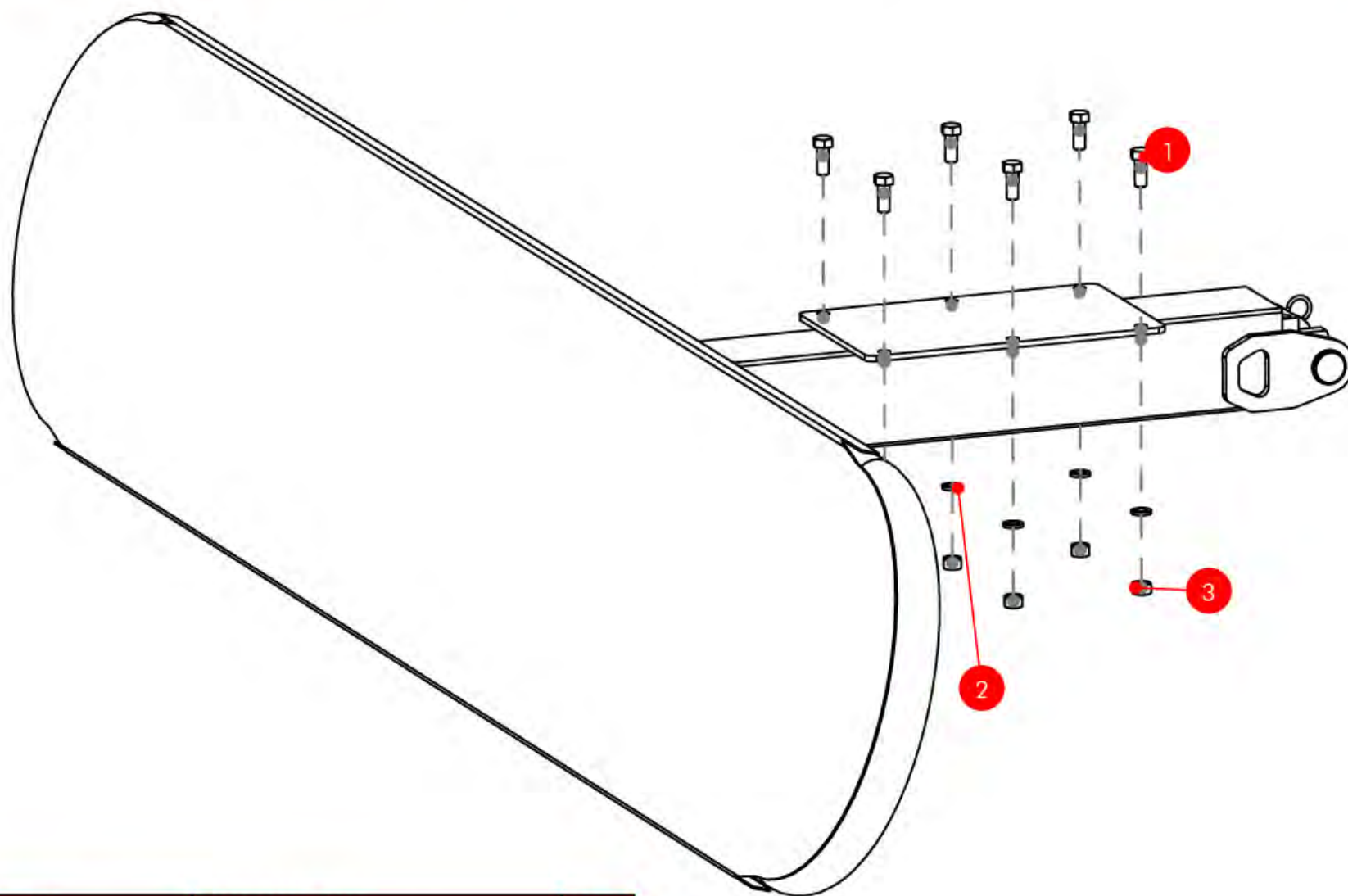



AKRON
EXG 480X

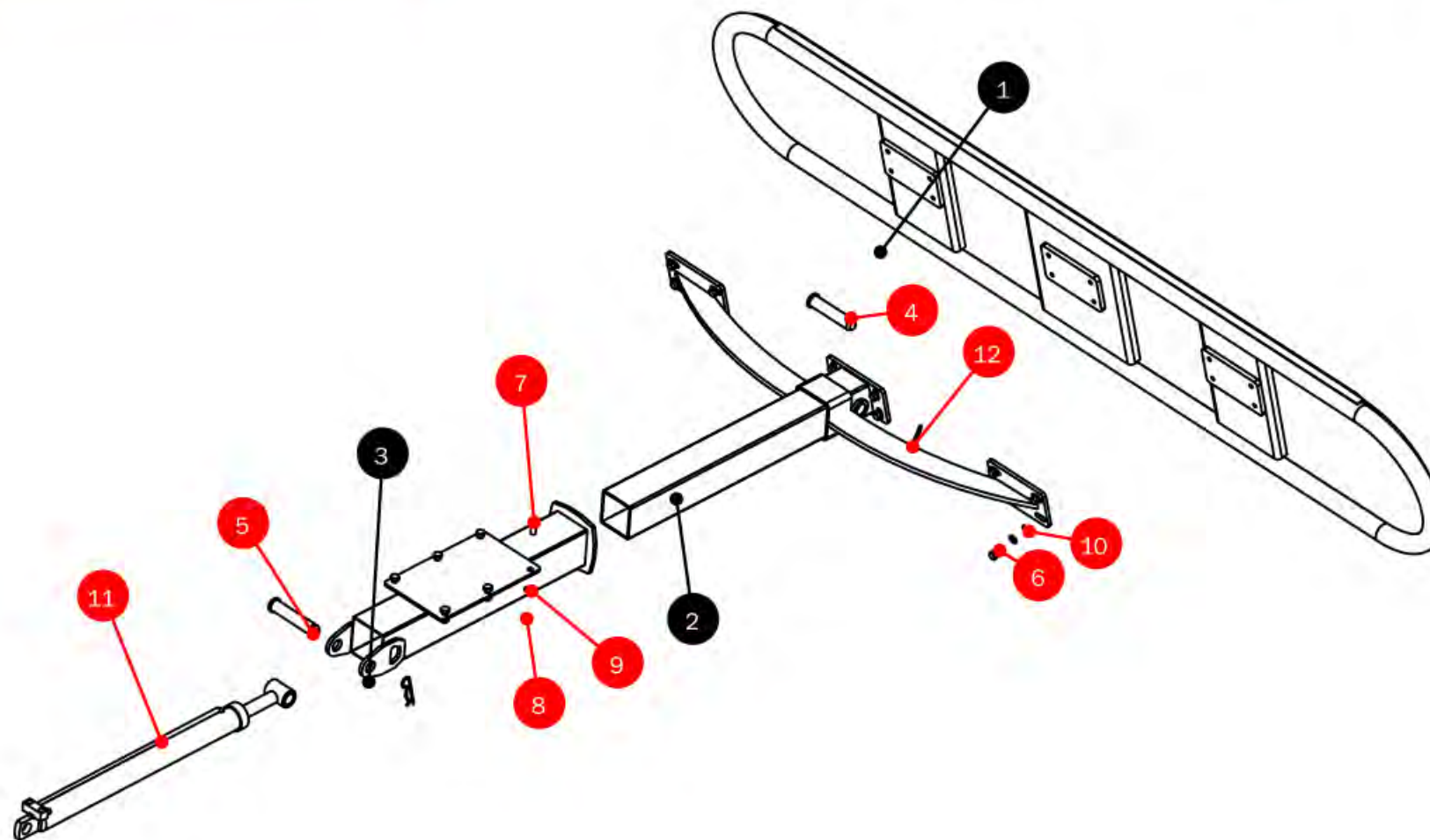




N°	PART	DESIGNATION	QTY
1	27.39.85192	- Support Assembly	1
2	27.39.87120	- Assembly Latch	1
3	98.002.063019	- Hex. Head Screw 1/4" X 3/4"	1
4	98.659.087193	-- Plate	1

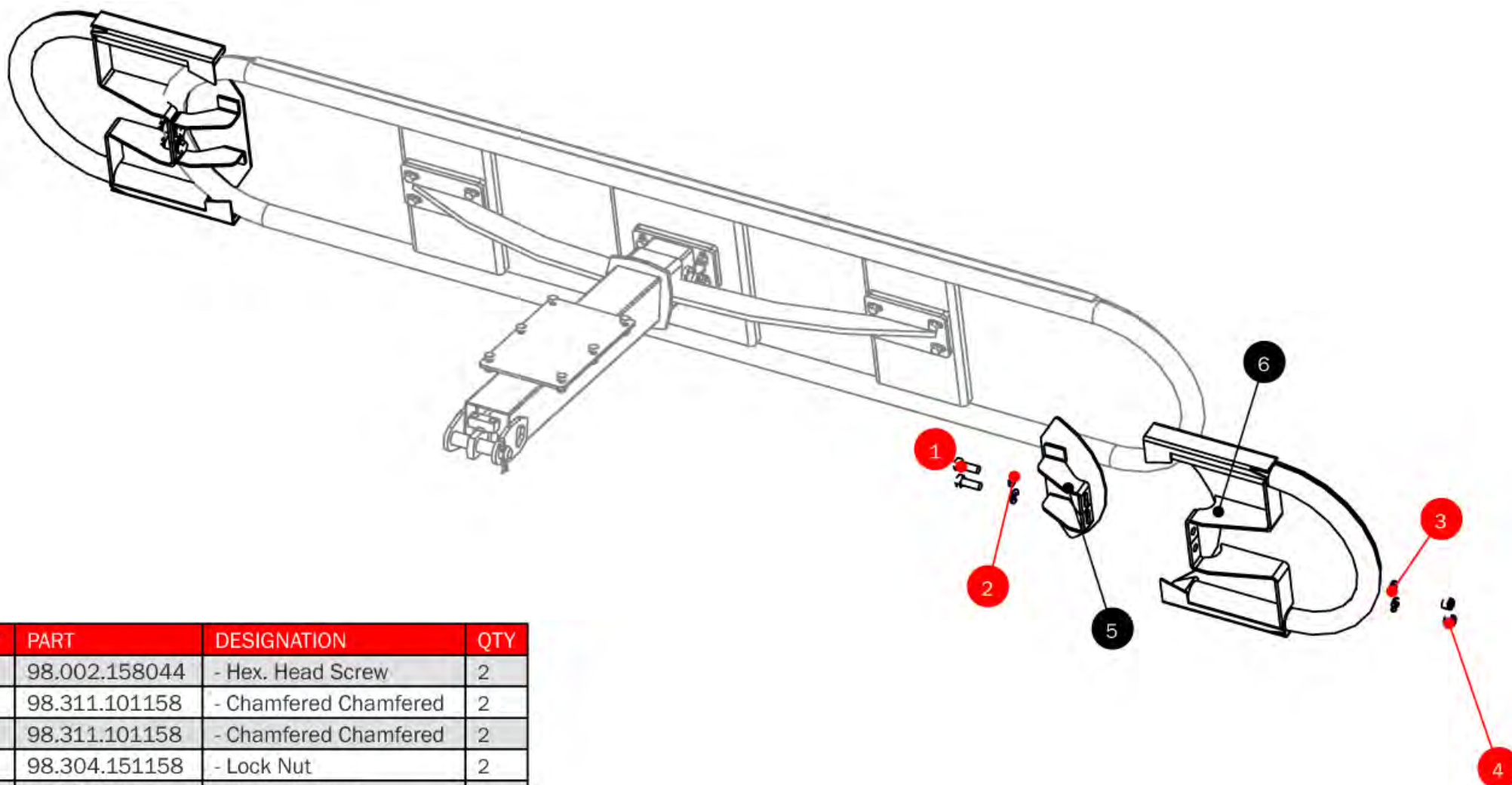


N°	PART	DESIGNATION	QTY
1	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	6
2	98.310.101127	- Grower Washer 1/2"	6
3	98.301.150127	- Hex Nut G5 Ø 1/2" RW	6



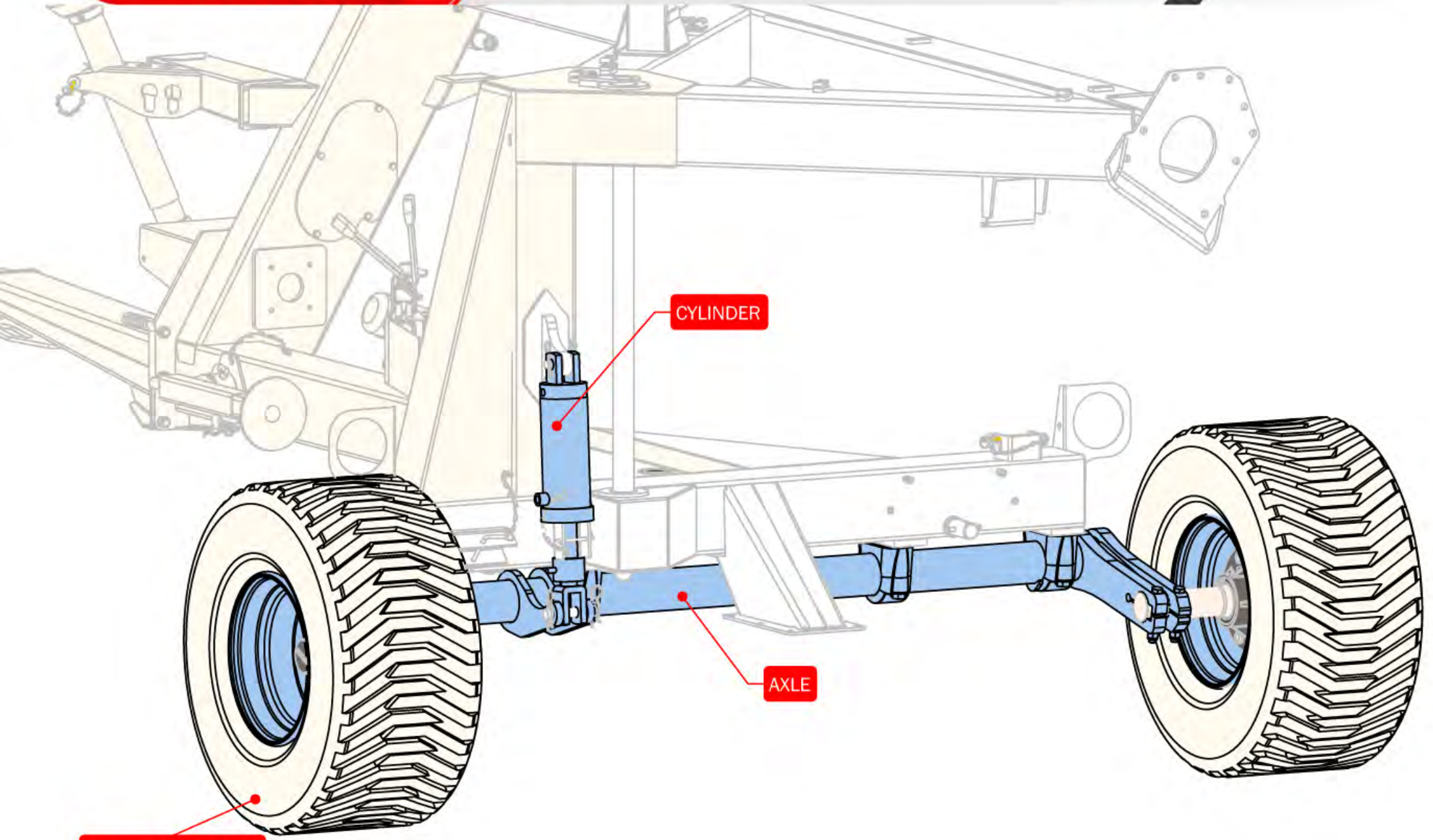
N°	PART	DESIGNATION	QTY
1	27.39.87906	-- Grain pusher	1
2	27.39.87930	-- Arm Assembly	1
3	27.39.88913	-- Support Assembly	1
4	27.43.81763	-- Lock Pin	1
5	27.43.87934	-- Lock Pin	1
6	98.002.127025	- Hex. Head Screw Ø1/2" X 1" RW G5	12
7	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	6

N°	PART	DESIGNATION	QTY
8	98.301.150127	- Hex Nut G5 Ø 1/2" RW	6
9	98.310.101127	- Grower Washer 1/2"	18
10	98.311.101127	- Chamfered Washer 1/2"	12
11	98.378.088923	-- Hydraulic Cylinder	1
12	98.334.045.060	-- Cotter Pin	2



N°	PART	DESIGNATION	QTY
1	98.002.158044	- Hex. Head Screw	2
2	98.311.101158	- Chamfered Chamfered	2
3	98.311.101158	- Chamfered Chamfered	2
4	98.304.151158	- Lock Nut	2
5	27.39.87996	- Down Linkage	2
6	27.39.87995	- Support Assembly	2

● AXLE



CYLINDER

AXLE

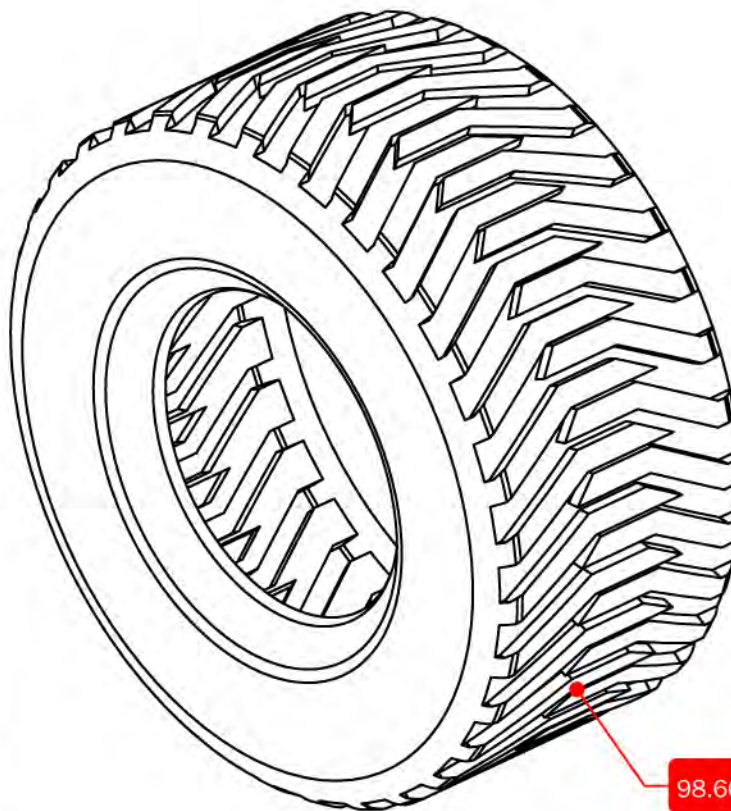
WHEEL / STUB AXLE

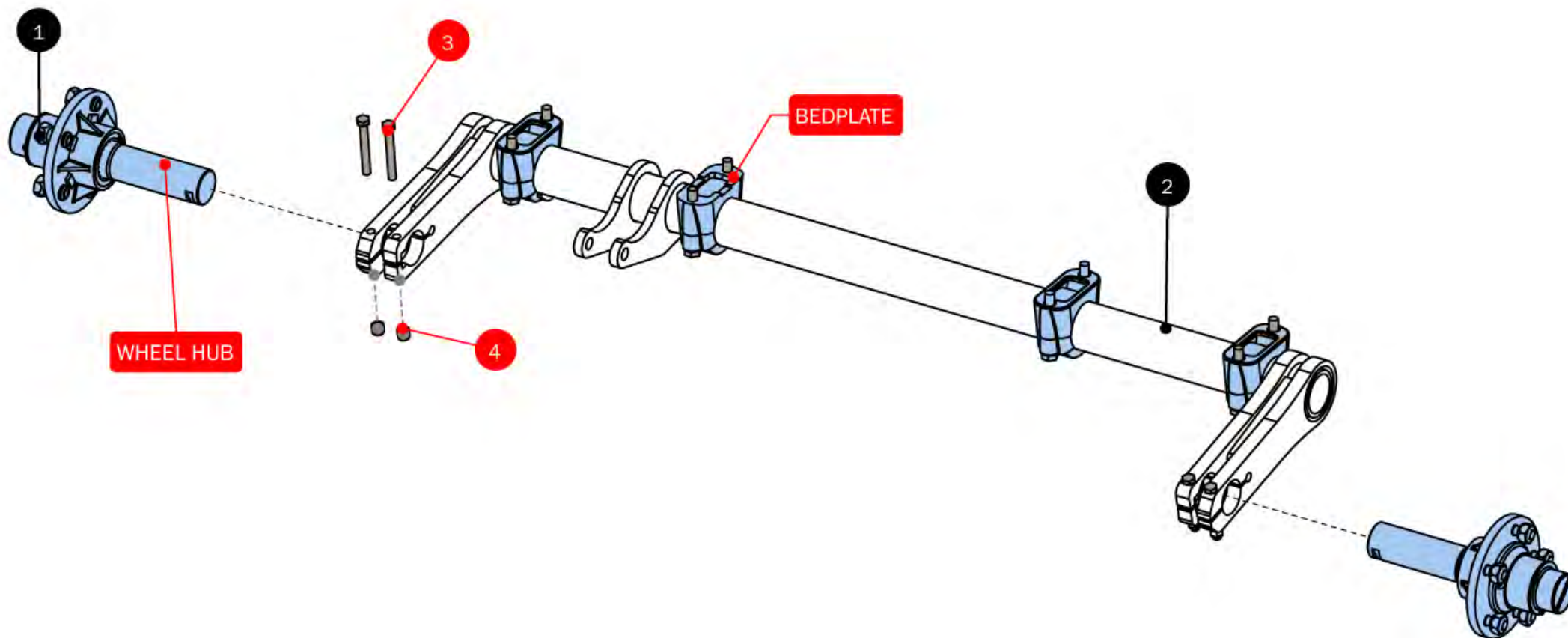
98.395.028142 13.00 DC
98.662.028141 WHEEL 400/60-R15.5

98.395.028142

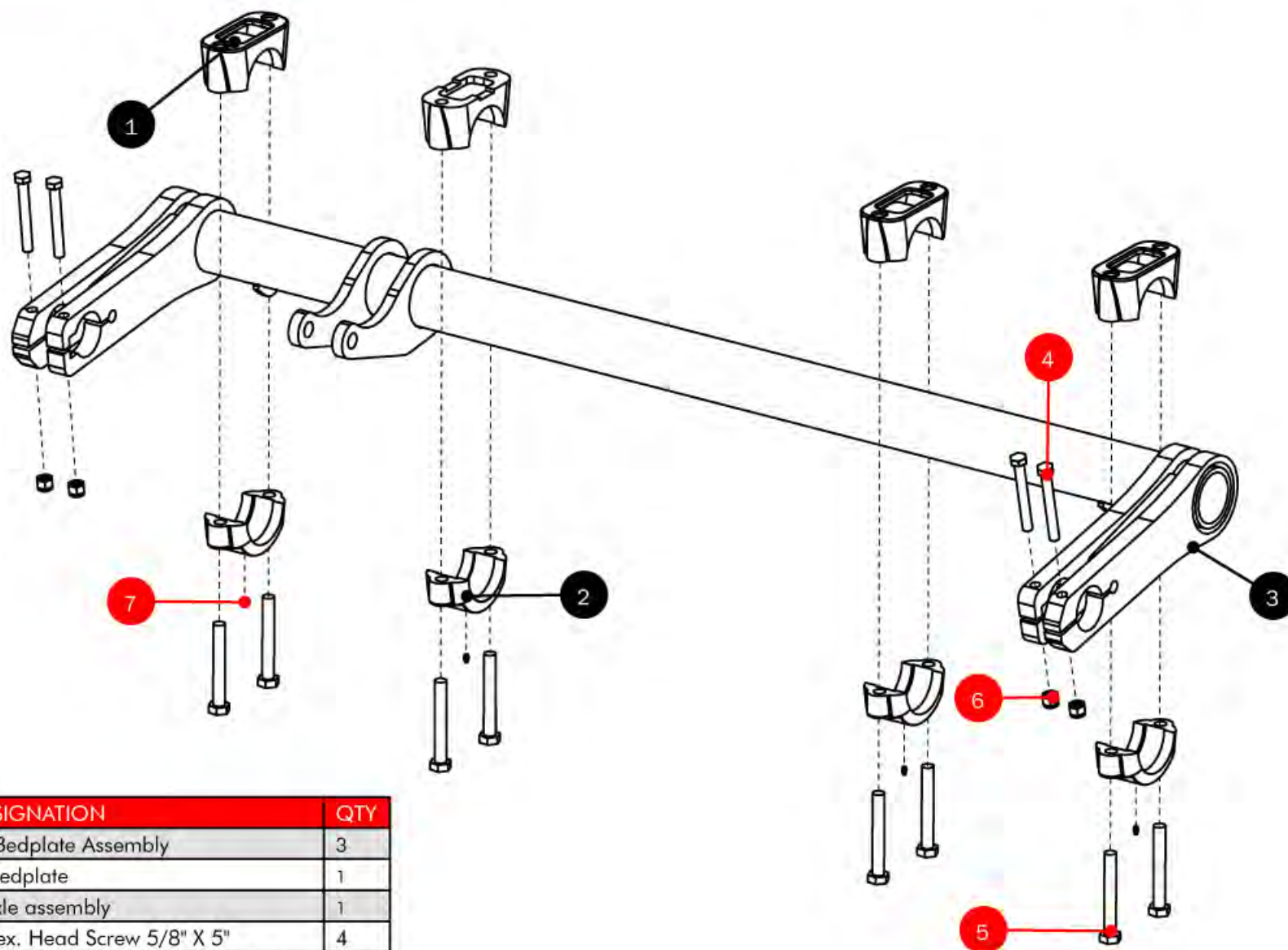


98.662.028141

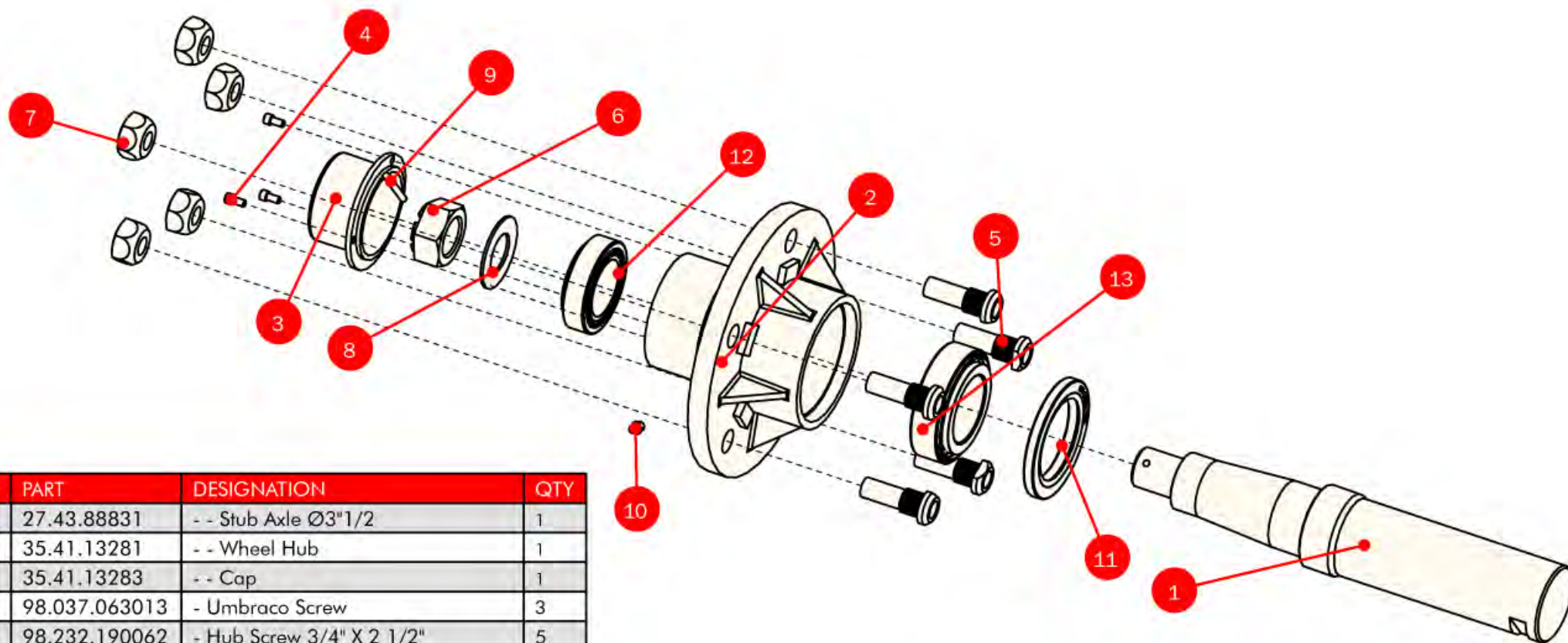




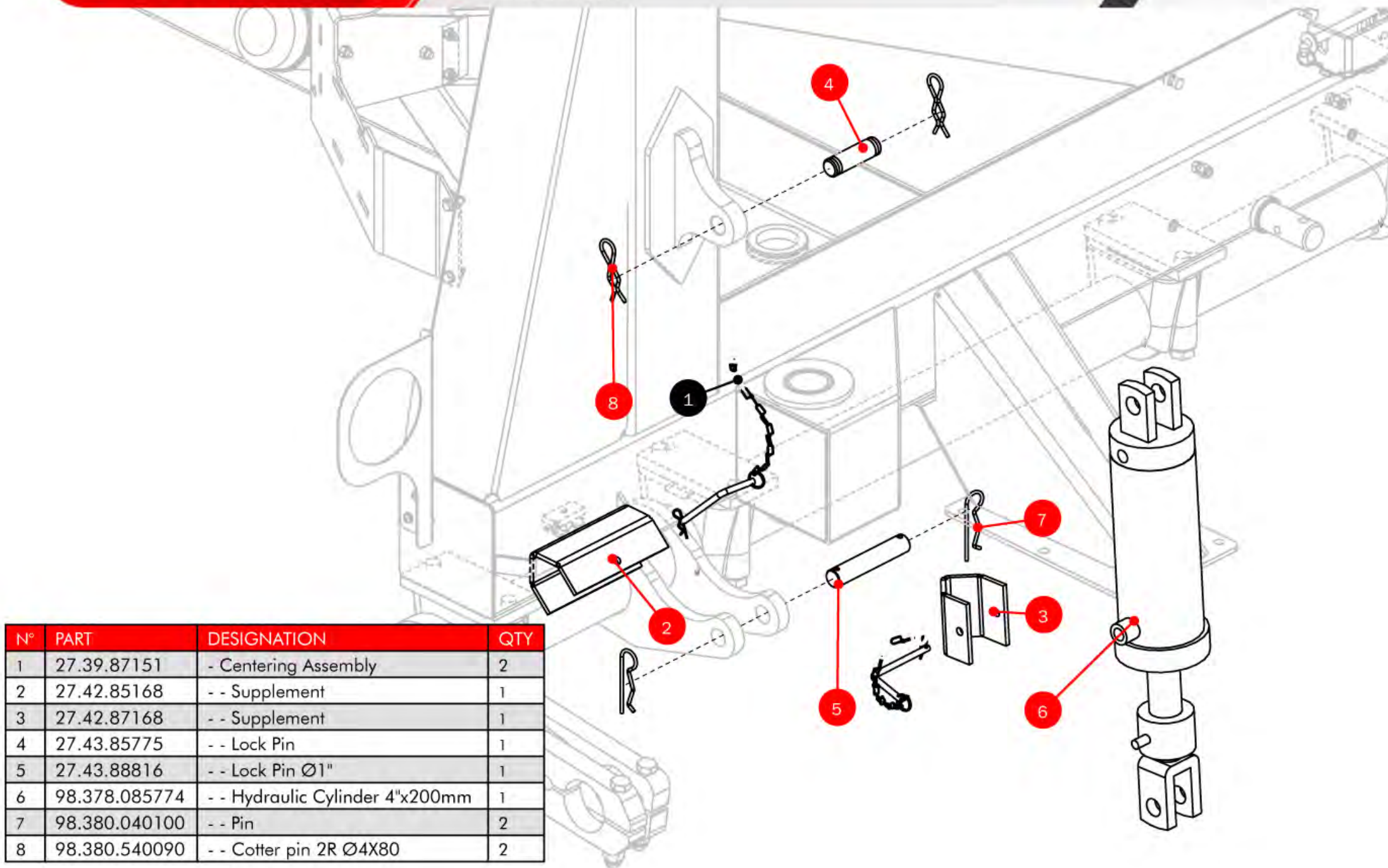
N°	PART	DESIGNATION	QTY
1	27.39.88830	- Wheel hud	2
2	27.39.88849	- - Shaft	1
3	98.002.158127	- Hex. Head Screw 5/8" X 5"	2
4	27.39.88830	- Lock Nut W 5/8"	2



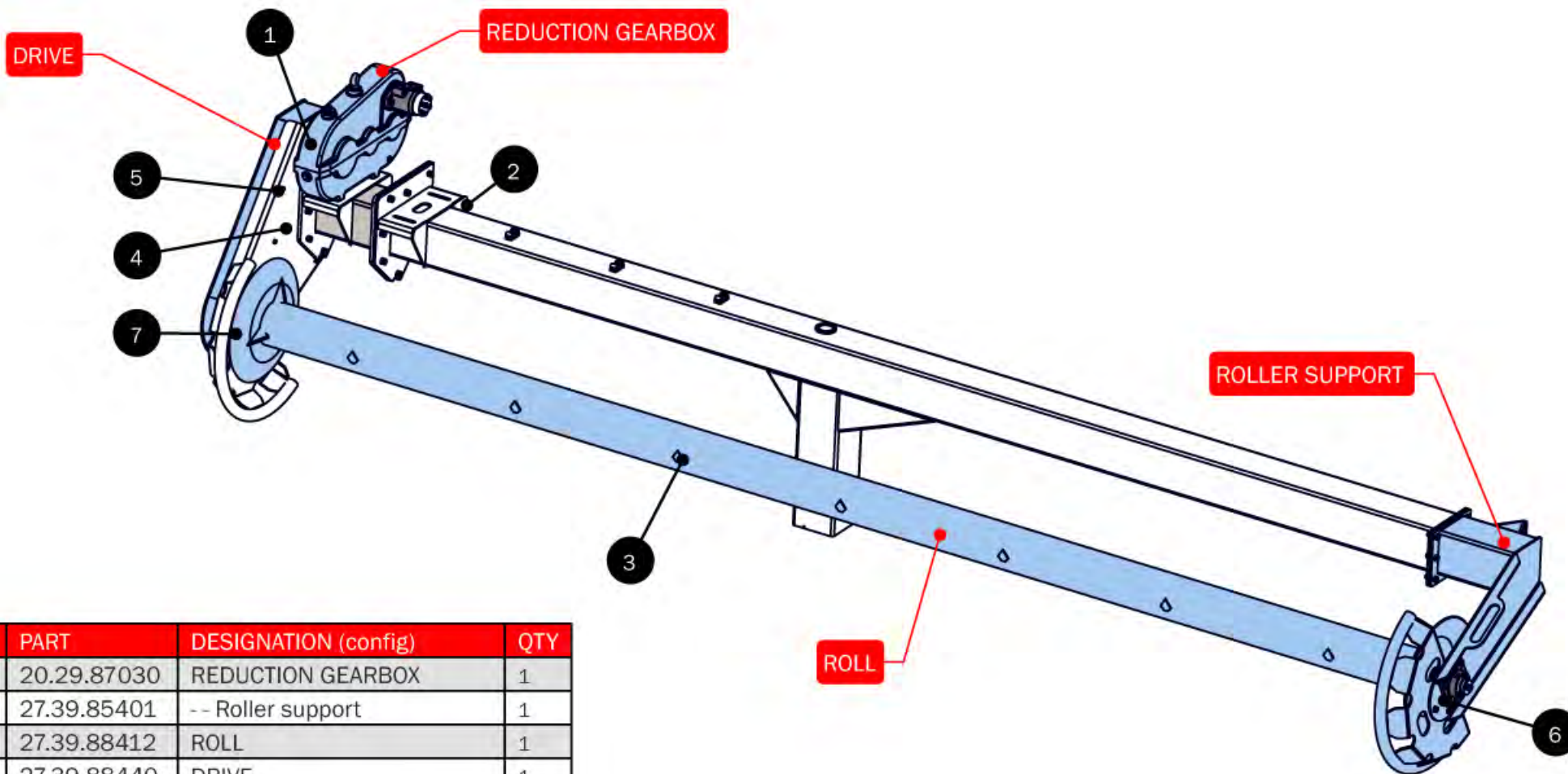
N°	PART	DESIGNATION	QTY
1	27.39.85810	-- Bedplate Assembly	3
2	27.39.88810	-- Bedplate	1
3	27.39.88849	- Axle assembly	1
4	98.002.158127	- Hex. Head Screw 5/8" X 5"	4
5	98.002.190140	- Hex. Head Screw 3/4" X 5 1/2" W	8
6	98.304.151158	- Lock Nut W 5/8"	4
7	98.460.300063	Straight Grease Fitting 1/4" NF	4



N°	PART	DESIGNATION	QTY
1	27.43.88831	- - Stub Axle Ø3"1/2	1
2	35.41.13281	- - Wheel Hub	1
3	35.41.13283	- - Cap	1
4	98.037.063013	- Umbraco Screw	3
5	98.232.190062	- Hub Screw 3/4" X 2 1/2"	5
6	98.303.310381	- Castle Nut NF 1 1/2"	1
7	98.306.350190	- Lug Nut NF 3/4"	5
8	98.309.100381	- Flat washer 1 1/2"	1
9	98.334.060070	- - Split pin 6 x 70	1
10	98.460.100097	- Straight Grease Fitting 1/8"	1
11	98.611.178035	- DBH Oil Seal	1
12	98.730.133011	- - Bearing RODAMIENTO 33011	1
13	98.730.133113	- - Bearing RODAMIENTOS 33113	1

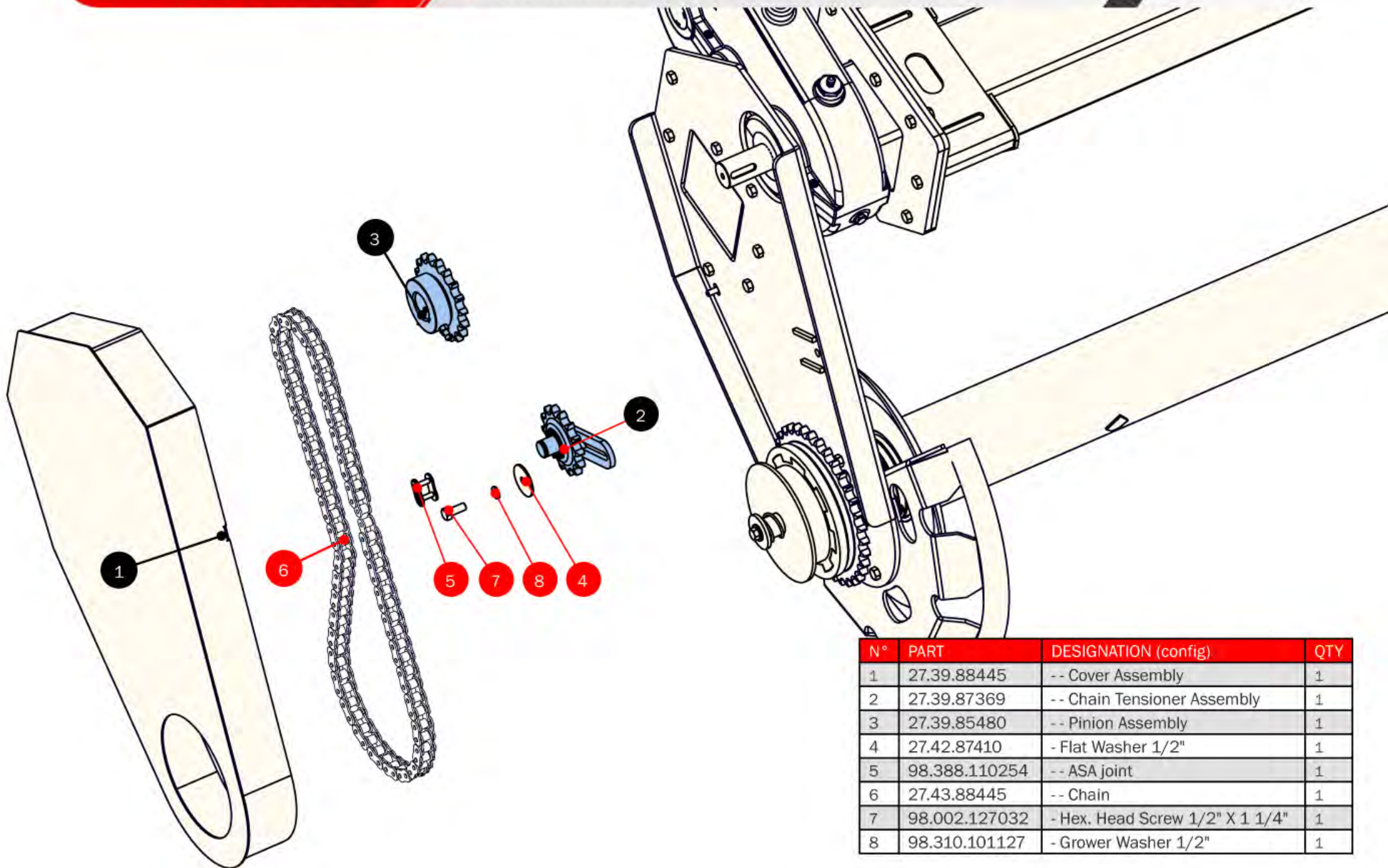


N°	PART	DESIGNATION	QTY
1	27.39.87151	- Centering Assembly	2
2	27.42.85168	- - Supplement	1
3	27.42.87168	- - Supplement	1
4	27.43.85775	- - Lock Pin	1
5	27.43.88816	- - Lock Pin Ø1"	1
6	98.378.085774	- - Hydraulic Cylinder 4"x200mm	1
7	98.380.040100	- - Pin	2
8	98.380.540090	- - Cotter pin 2R Ø4X80	2

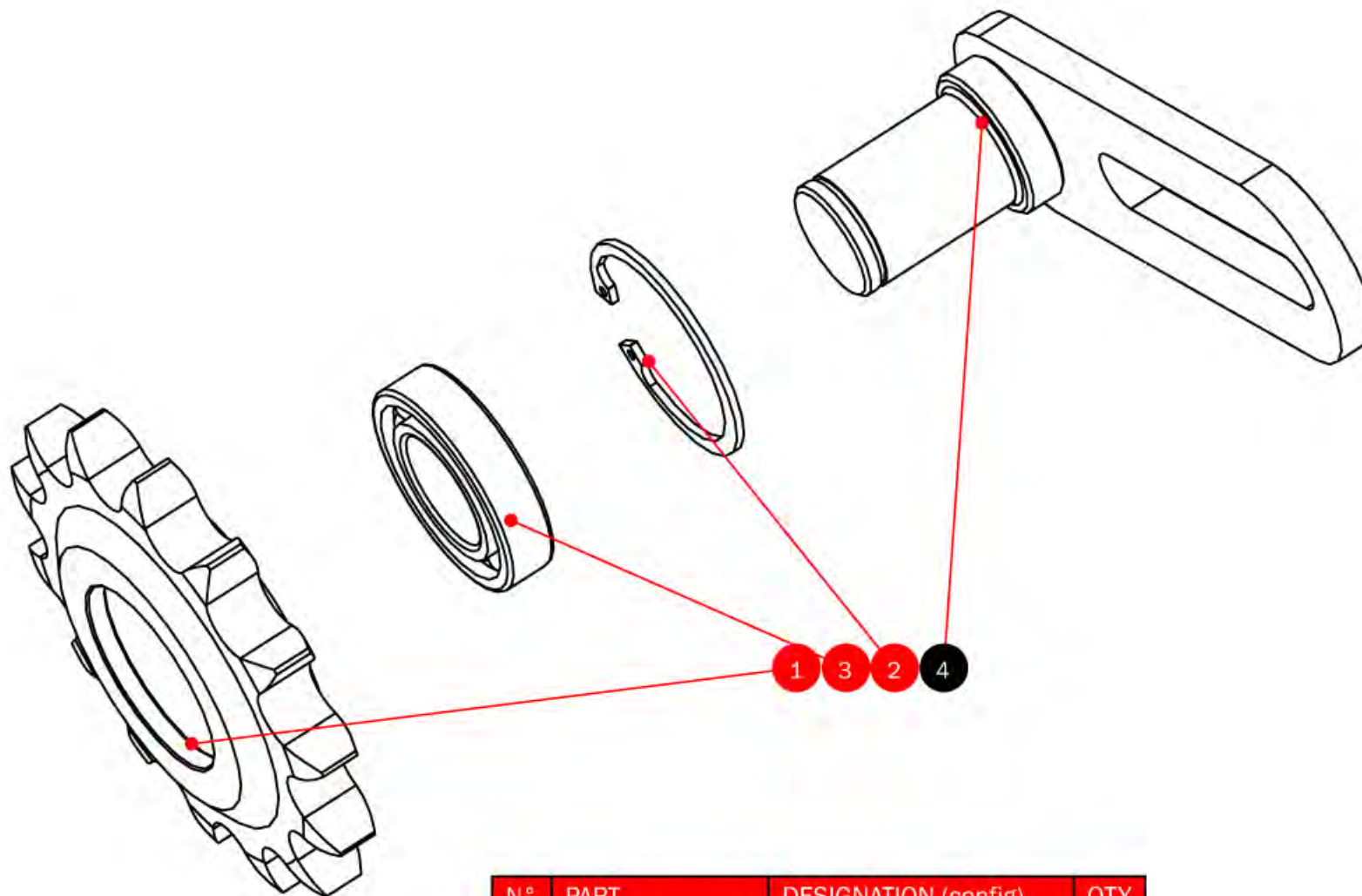


N°	PART	DESIGNATION (config)	QTY
1	20.29.87030	REDUCTION GEARBOX	1
2	27.39.85401	-- Roller support	1
3	27.39.88412	ROLL	1
4	27.39.88440	DRIVE	1
5	27.39.88445	COVER ASSEMBLY	1
6	27.39.88980	COVER ASSEMBLY	1
7	27.39.88985	Left side Retainer Assembly	1

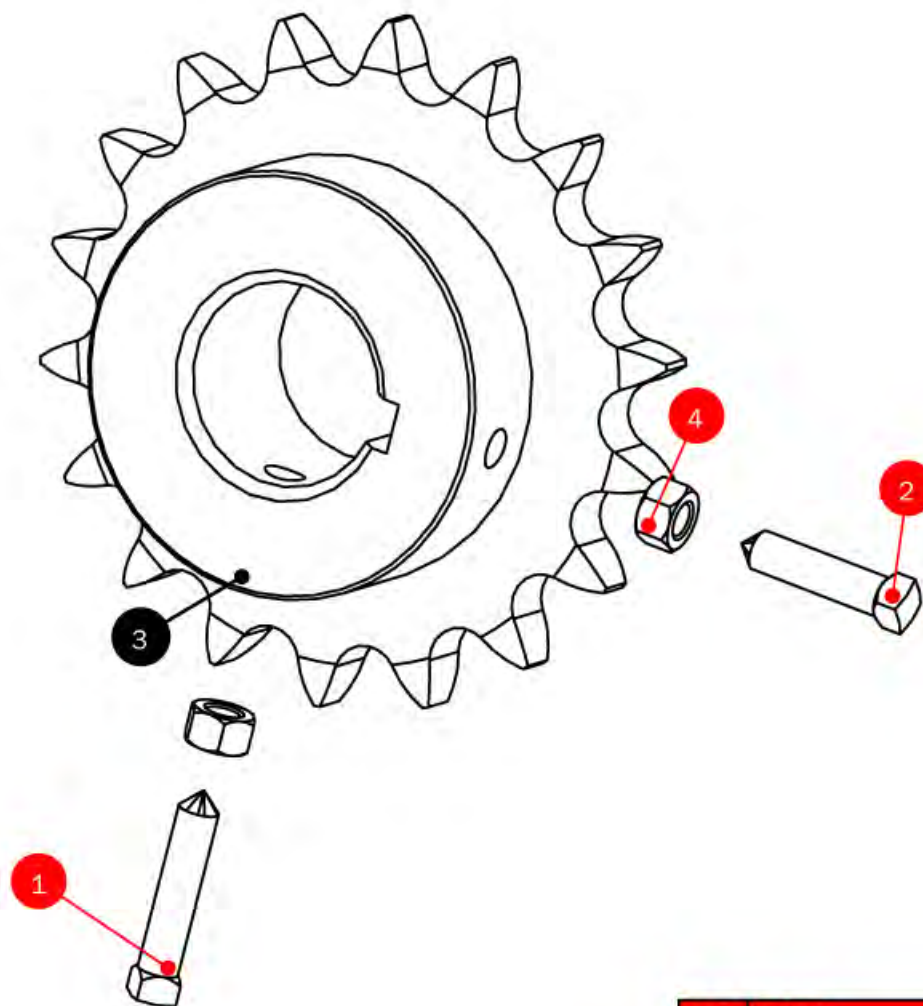
● ROLLER ASSEMBLY



N°	PART	DESIGNATION (config)	QTY
1	27.39.88445	-- Cover Assembly	1
2	27.39.87369	-- Chain Tensioner Assembly	1
3	27.39.85480	-- Pinion Assembly	1
4	27.42.87410	- Flat Washer 1/2"	1
5	98.388.110254	-- ASA joint	1
6	27.43.88445	-- Chain	1
7	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	1
8	98.310.101127	- Grower Washer 1/2"	1

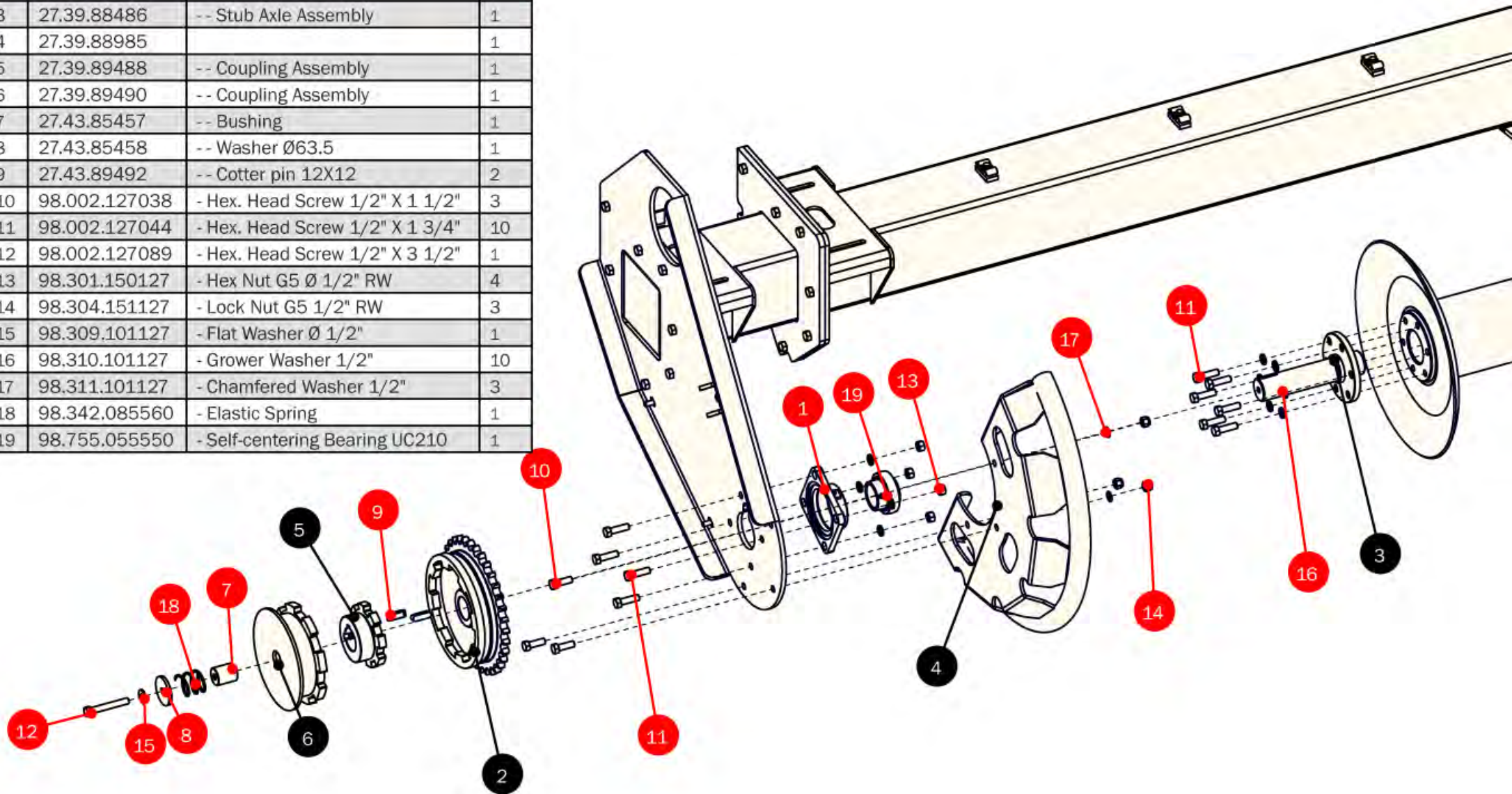


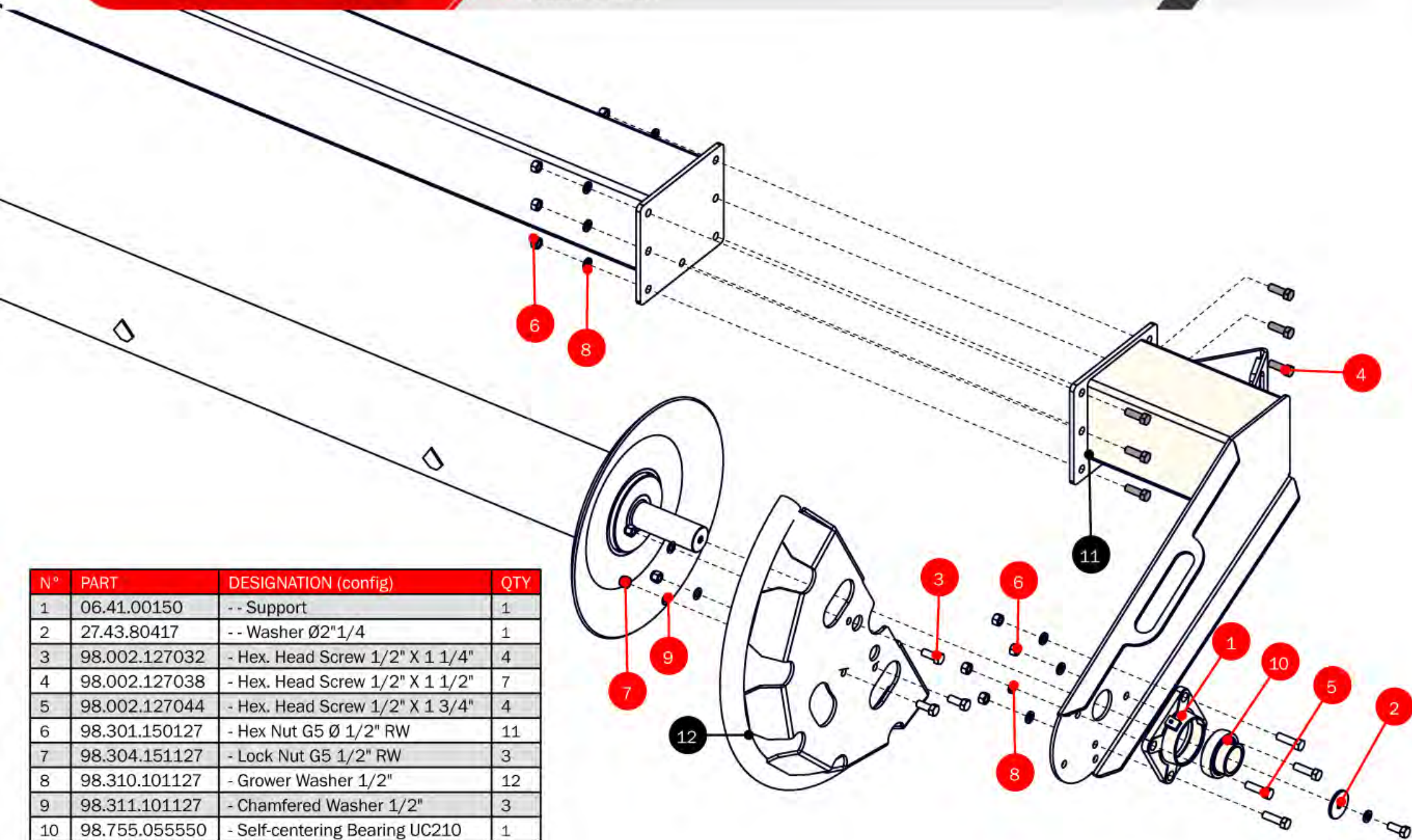
N°	PART	DESIGNATION (config)	QTY
1	27.43.87367	-- Tensioner Z14 ASA80	1
2	98.322.000550	-- Key ring Ø55	1
3	98.705.105876	-- Bearing 6006	1
4	27.39.87369	-- Tightener Assembly	1



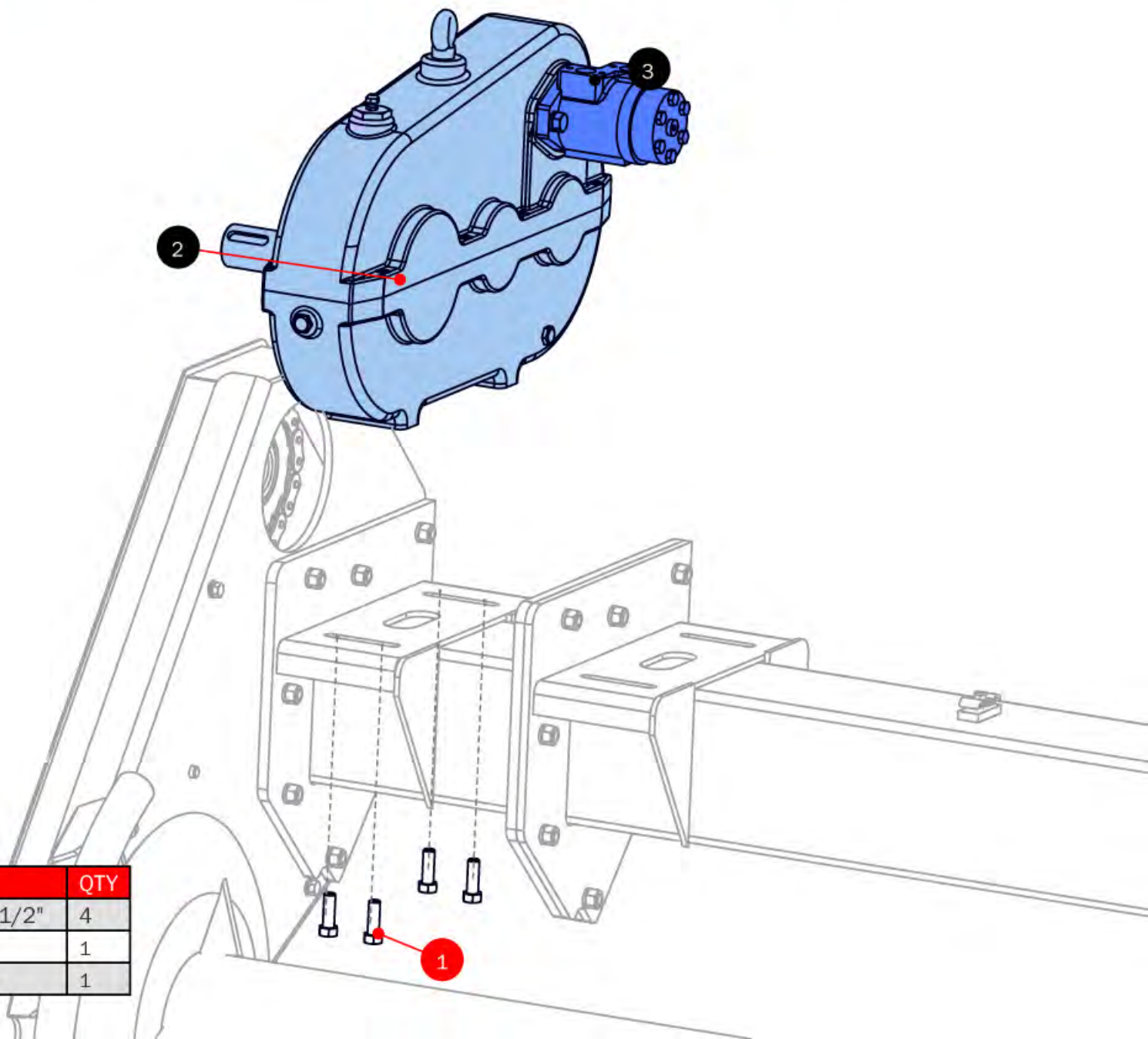
N°	PART	DESIGNATION (config)	QTY
1	98.061.095044	-- Stud W 3/8" x 1 3/4"	1
2	98.061.095038	-- Stud W 3/8" x 1 1/2"	1
3	27.39.85480	-- Pinion Assembly	1
4	98.301.150095	- Hex Nut W3/8" x 16	2

N°	PART	DESIGNATION (config)	QTY
1	06.41.00150	-- Support	1
2	27.39.88480	-- Sprocket Assembly	1
3	27.39.88486	-- Stub Axle Assembly	1
4	27.39.88985		1
5	27.39.89488	-- Coupling Assembly	1
6	27.39.89490	-- Coupling Assembly	1
7	27.43.85457	-- Bushing	1
8	27.43.85458	-- Washer Ø63.5	1
9	27.43.89492	-- Cotter pin 12X12	2
10	98.002.127038	- Hex. Head Screw 1/2" X 1 1/2"	3
11	98.002.127044	- Hex. Head Screw 1/2" X 1 3/4"	10
12	98.002.127089	- Hex. Head Screw 1/2" X 3 1/2"	1
13	98.301.150127	- Hex Nut G5 Ø 1/2" RW	4
14	98.304.151127	- Lock Nut G5 1/2" RW	3
15	98.309.101127	- Flat Washer Ø 1/2"	1
16	98.310.101127	- Grower Washer 1/2"	10
17	98.311.101127	- Chamfered Washer 1/2"	3
18	98.342.085560	- Elastic Spring	1
19	98.755.055550	- Self-centering Bearing UC210	1

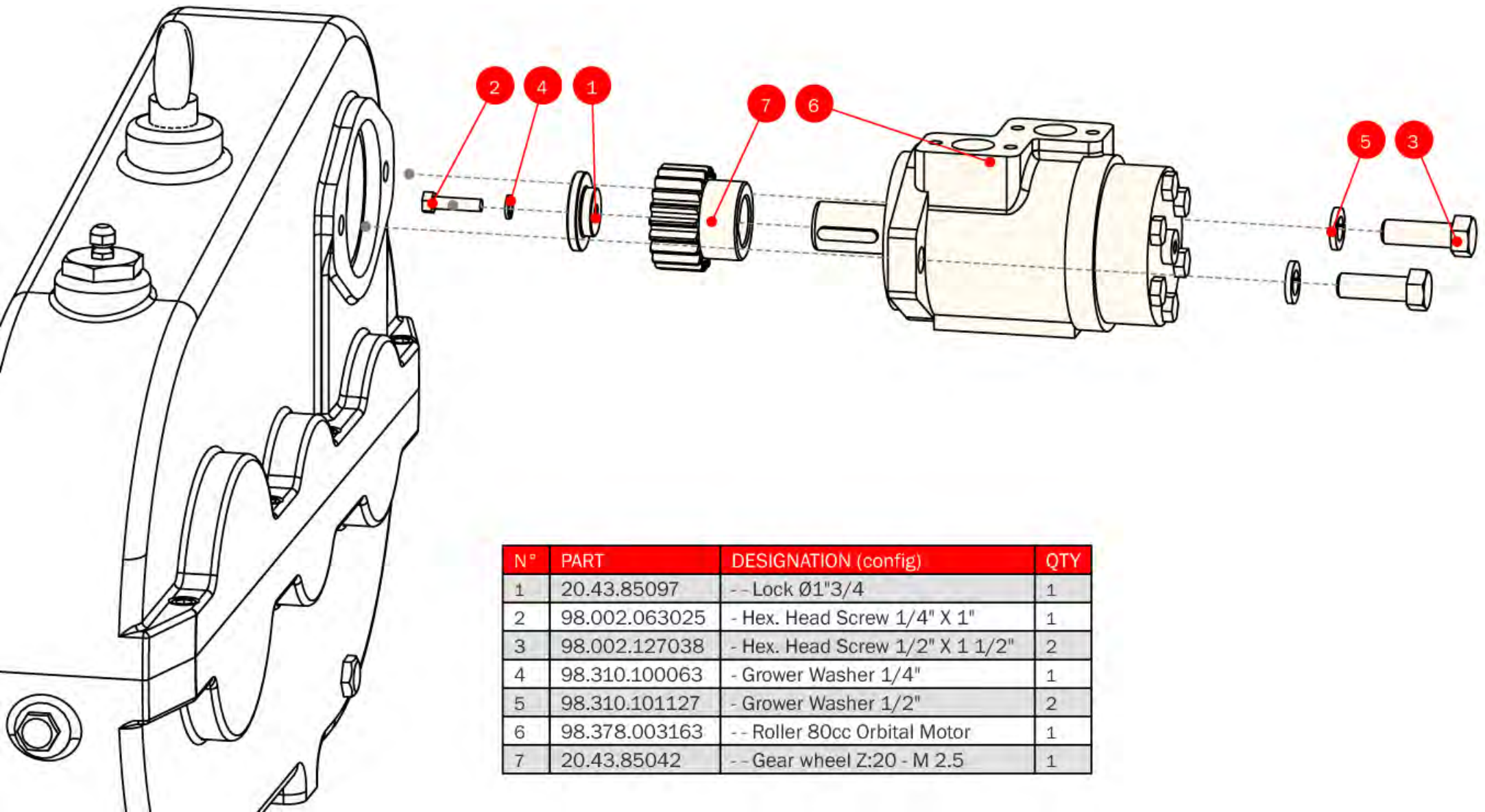




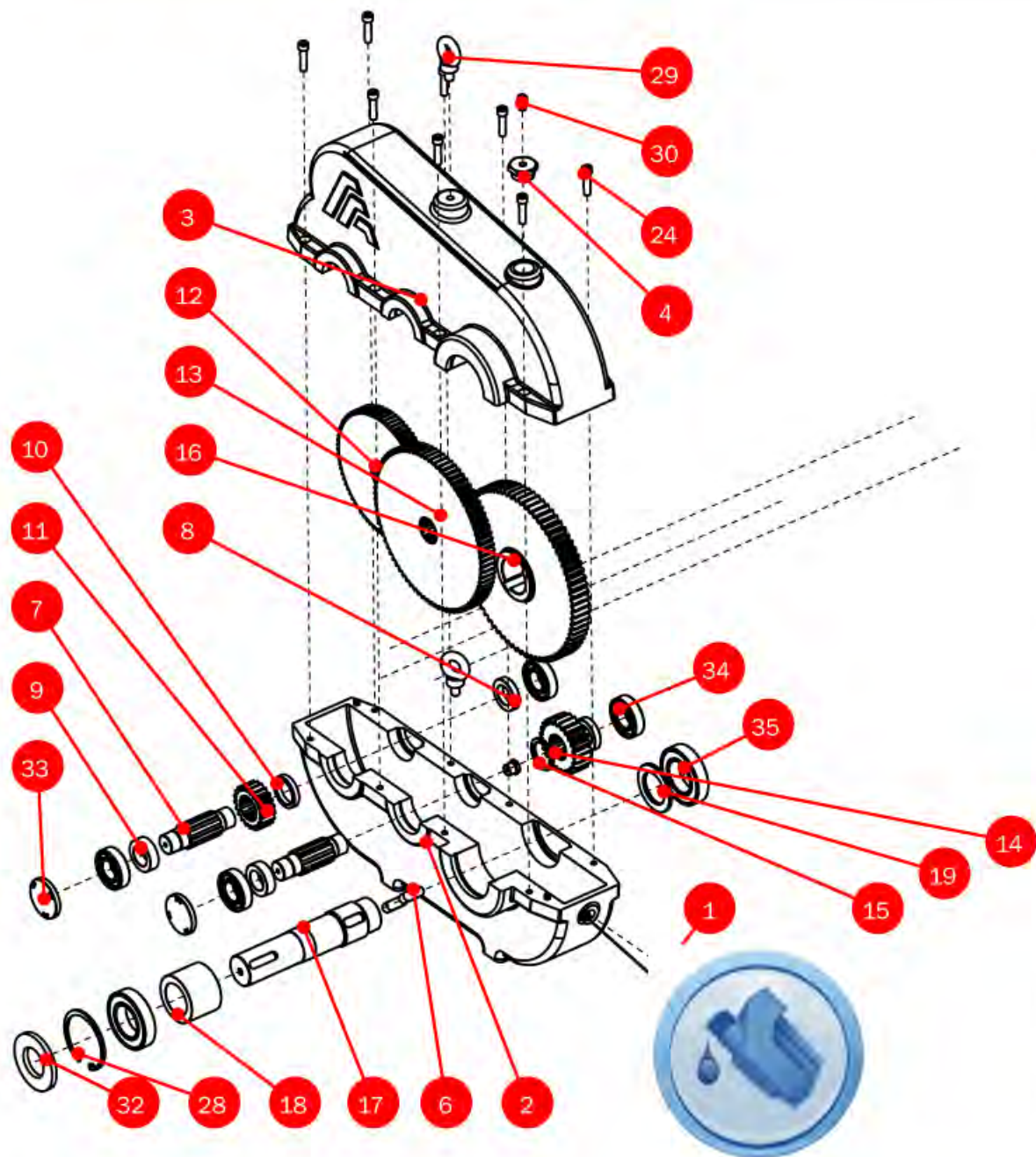
N°	PART	DESIGNATION (config)	QTY
1	06.41.00150	-- Support	1
2	27.43.80417	-- Washer Ø2"1/4	1
3	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	4
4	98.002.127038	- Hex. Head Screw 1/2" X 1 1/2"	7
5	98.002.127044	- Hex. Head Screw 1/2" X 1 3/4"	4
6	98.301.150127	- Hex Nut G5 Ø 1/2" RW	11
7	98.304.151127	- Lock Nut G5 1/2" RW	3
8	98.310.101127	- Grower Washer 1/2"	12
9	98.311.101127	- Chamfered Washer 1/2"	3
10	98.755.055550	- Self-centering Bearing UC210	1
11	27.39.88430	- Arm Assembly	1
12	27.39.88980	- Right Cover Assembly	1



N°	PART	DESIGNATION (config)	QTY
1	98.002.127038	- Hex. Head Screw 1/2" X 1 1/2"	4
2	20.39.85025	-- Reduction gearbox	1
3	98.378.003163	-- Roller 80cc Orbital Motor	1

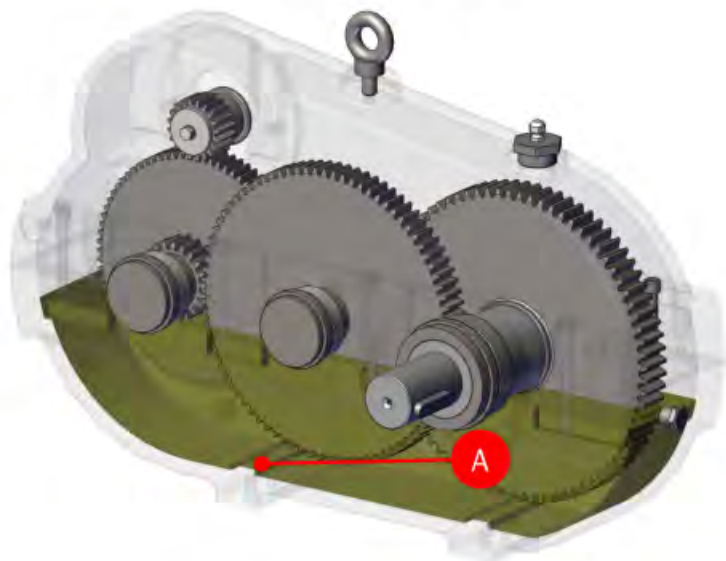


N°	PART	DESIGNATION (config)	QTY
1	20.43.85097	-- Lock Ø1"3/4	1
2	98.002.063025	- Hex. Head Screw 1/4" X 1"	1
3	98.002.127038	- Hex. Head Screw 1/2" X 1 1/2"	2
4	98.310.100063	- Grower Washer 1/4"	1
5	98.310.101127	- Grower Washer 1/2"	2
6	98.378.003163	-- Roller 80cc Orbital Motor	1
7	20.43.85042	-- Gear wheel Z:20 - M 2.5	1



N°	PART	DESIGNATION (config)	QTY
1	13.43.11051	-- Cap 3/8"	2
2	20.41.85026	-- Cap	1
3	20.41.85027	-- Cap	1
4	20.43.80024	-- Rubber Cover	1
6	20.43.85069	-- Cotter pin 14X14X37	2
7	20.43.85071	-- Shaft	2
8	20.43.85072	-- Bushing	2
9	20.43.85073	-- Bushing	2
10	20.43.85075	-- Washer Ø2"	1
11	20.43.85076	-- Gear wheel Z21 M 3	1
12	20.43.85077	-- Gear wheel Z80	1
13	20.43.85081	-- Gear wheel Z84 M3	1
14	20.43.85082	-- Gear wheel Ø101.6 - Z23 M3.5	1
15	20.43.85083	-- Bushing Ø2"	1
16	20.43.85091	-- Gear wheel Z76 M3.5	1
17	20.43.85093	-- Shaft N° 3	1
18	20.43.85094	-- Bushing	1
19	20.43.85095	-- Washer Ø76.2	1
24	98.037.095038	- Umbraco Screw RW 3/8"x1"1/2	8
28	98.322.000900	- Int. Retaining ring	1
29	98.368.102120	-- Lifting Eyebolt M12	1
30	98.370.100972	- Breathing Valve 1/8" BSP	1
32	98.611.175568	- DBH Oil Seal 9388	1
33	98.612.100062	- DBH Oil Seal 1168	2
34	98.705.206530	-- Bearing 6206	4
35	98.705.207750	-- Bearing N° 6210-2RS	2

NIVEL MÁXIMO DE ACEITE



NIVEL MÍNIMO DE ACEITE



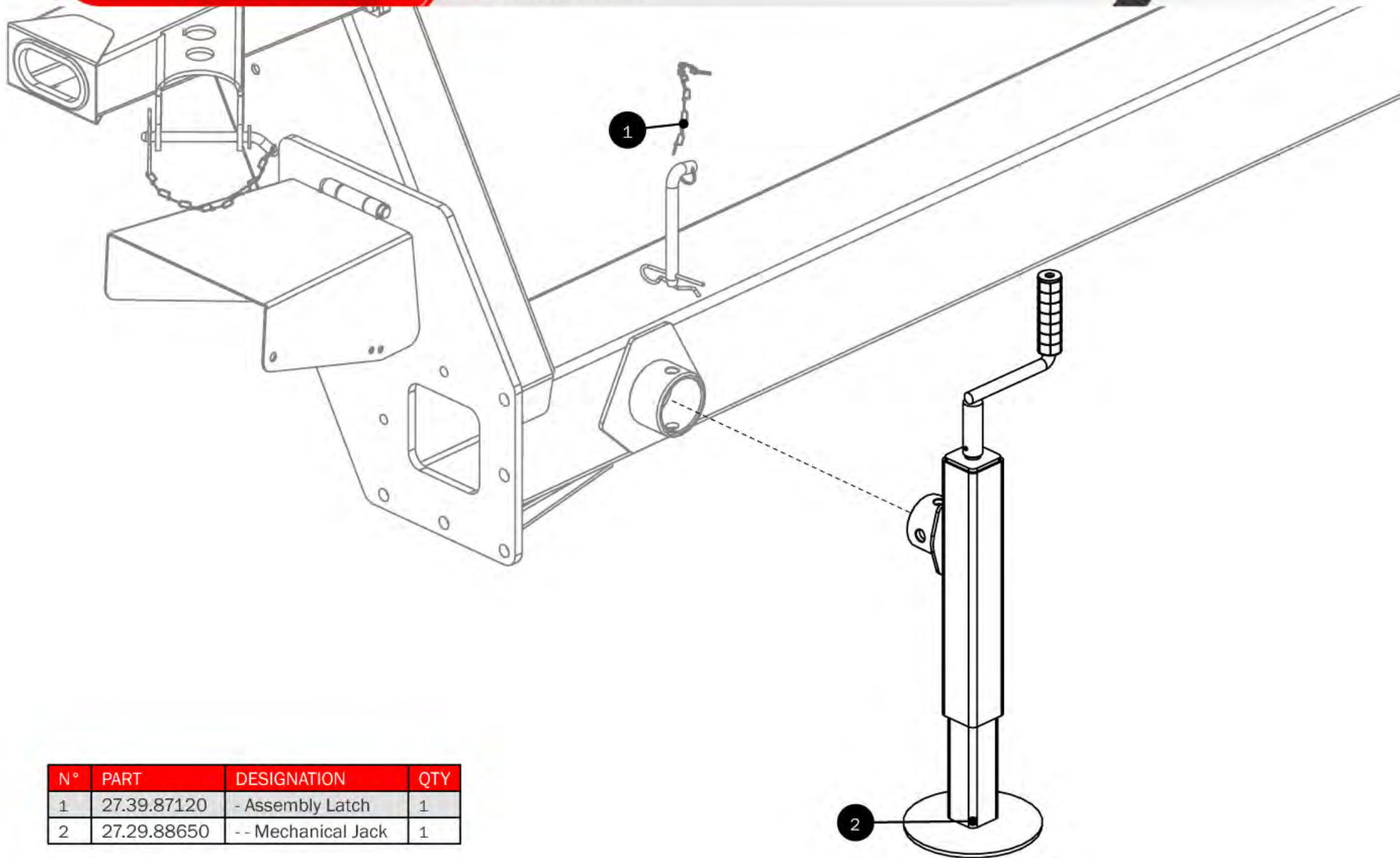
GEARBOX OIL SPECIFICATIONS:

Oil: MOBILUBE HD 80W90 multigrade mineral oil

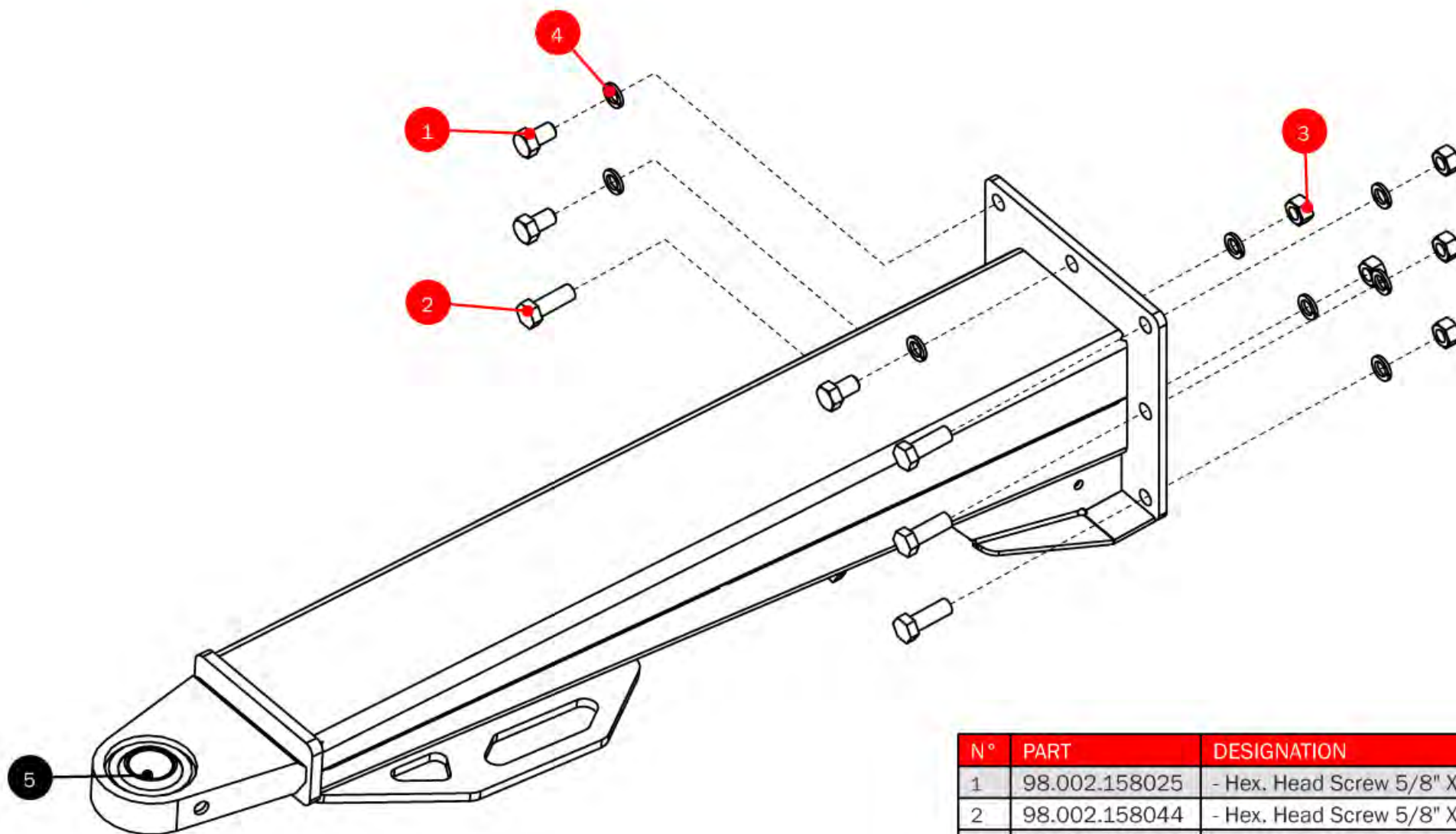
Capacity: 4 liters

How to check oil level:

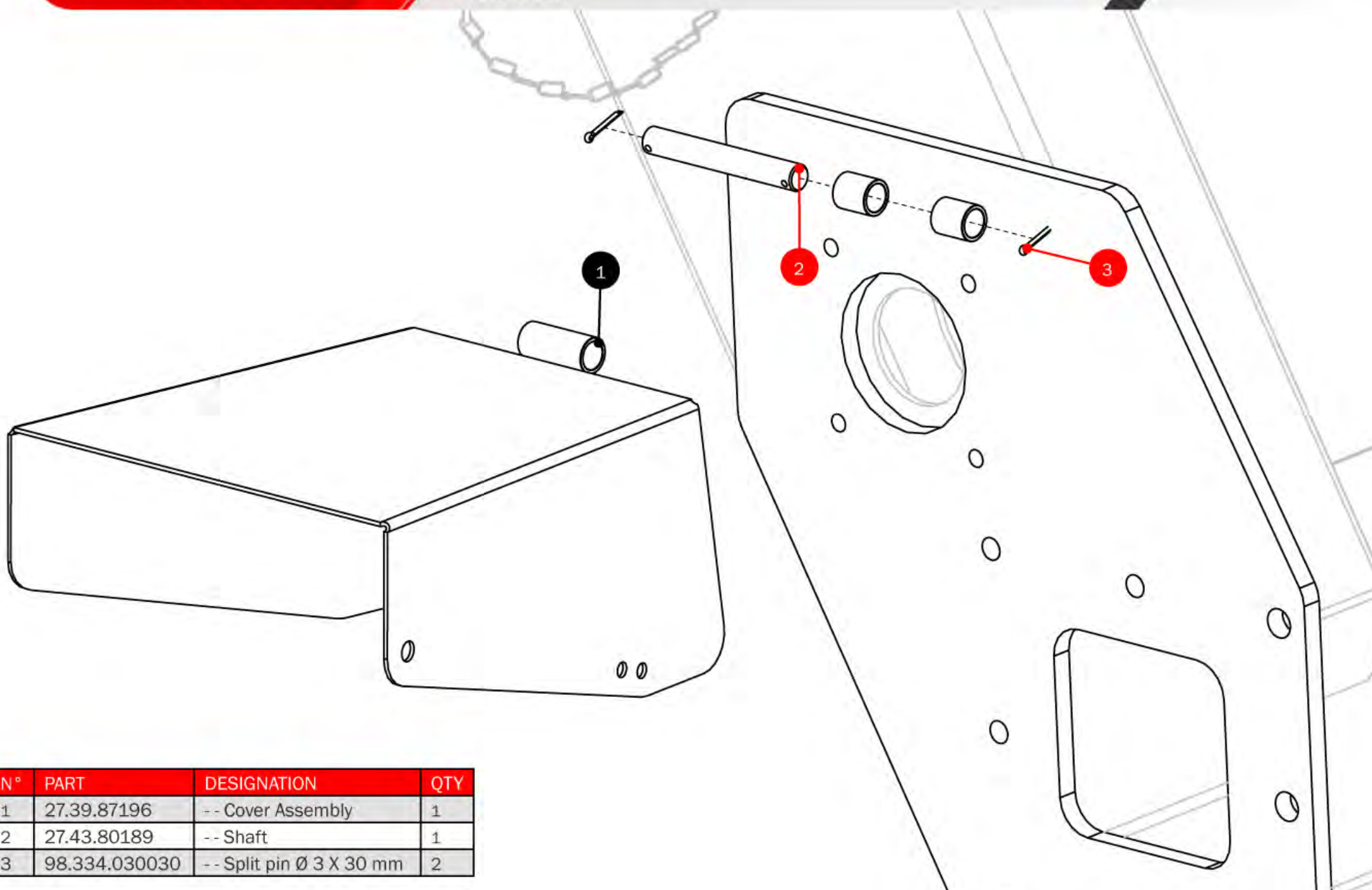
- 1) Place the unloader in horizontal position.
- 2) Remove plug A
- 3) Take measurement from the bottom of the thread of the plug.
- 4) Check oil level at the bottom of the plug hole.
- 5) Perform the first oil change after 50 hours. Then, oil should be changed either every 300 hours or 1 year.



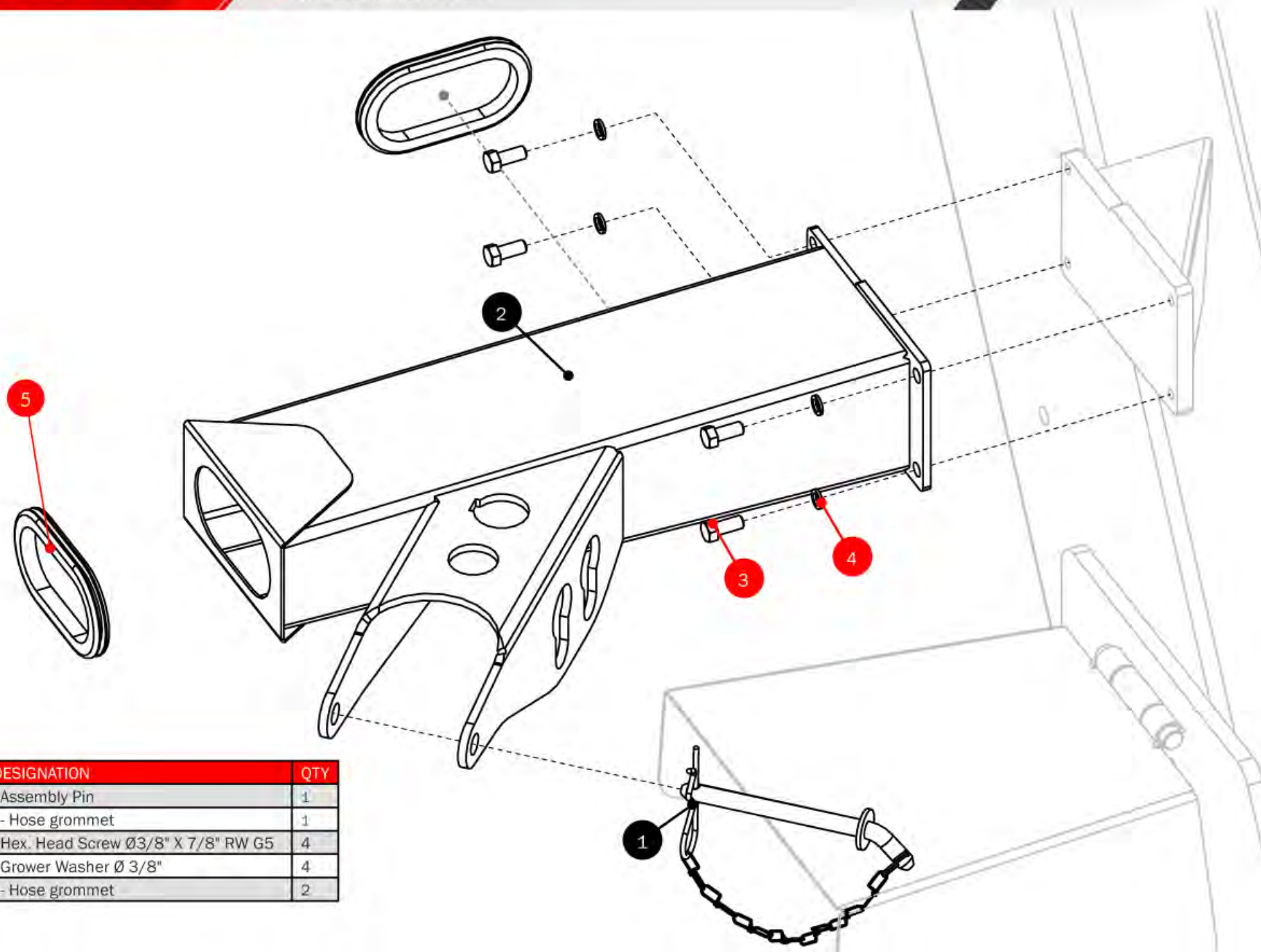
N°	PART	DESIGNATION	QTY
1	27.39.87120	- Assembly Latch	1
2	27.29.88650	-- Mechanical Jack	1



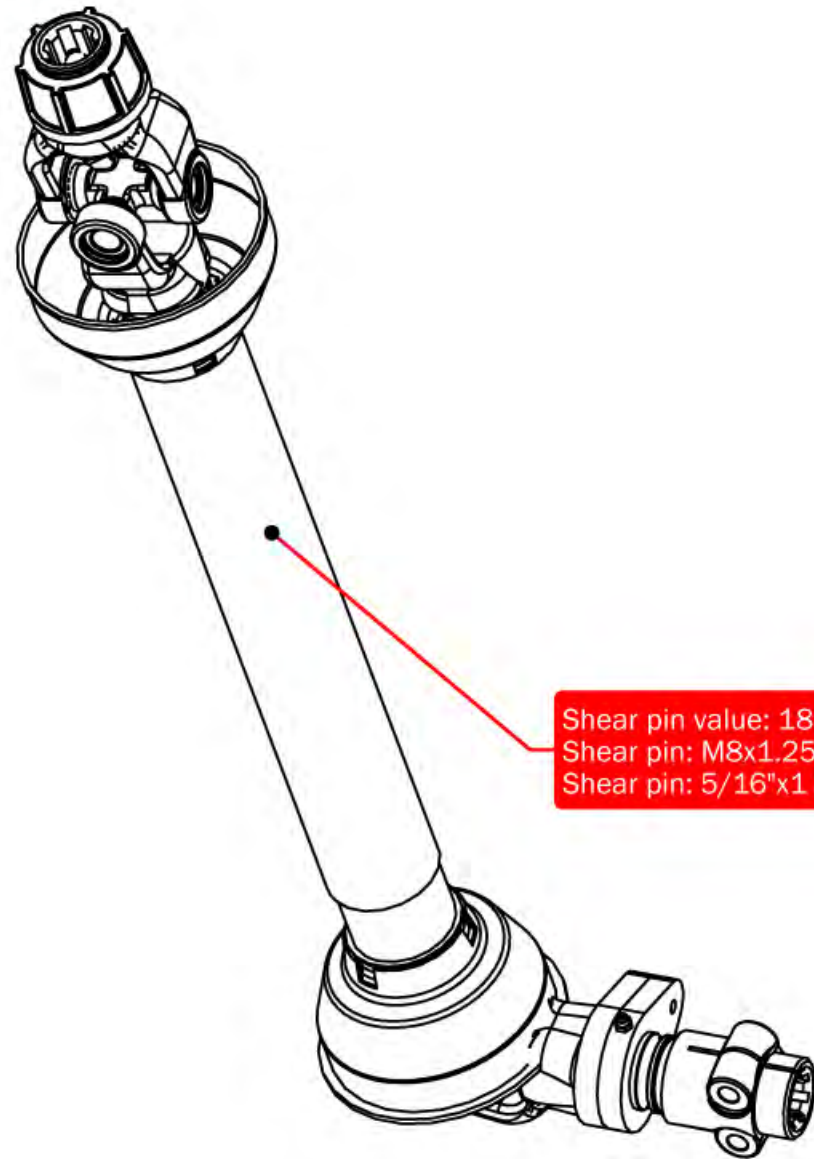
N°	PART	DESIGNATION	QTY
1	98.002.158025	- Hex. Head Screw 5/8" X 1"	3
2	98.002.158044	- Hex. Head Screw 5/8" X 1 3/4"	5
3	98.301.150158	- Hex Nut 5/8 W G° 5	5
4	98.310.101158	- Grower Washer 5/8"	8
5	27.29.88385	-- Towbar	1



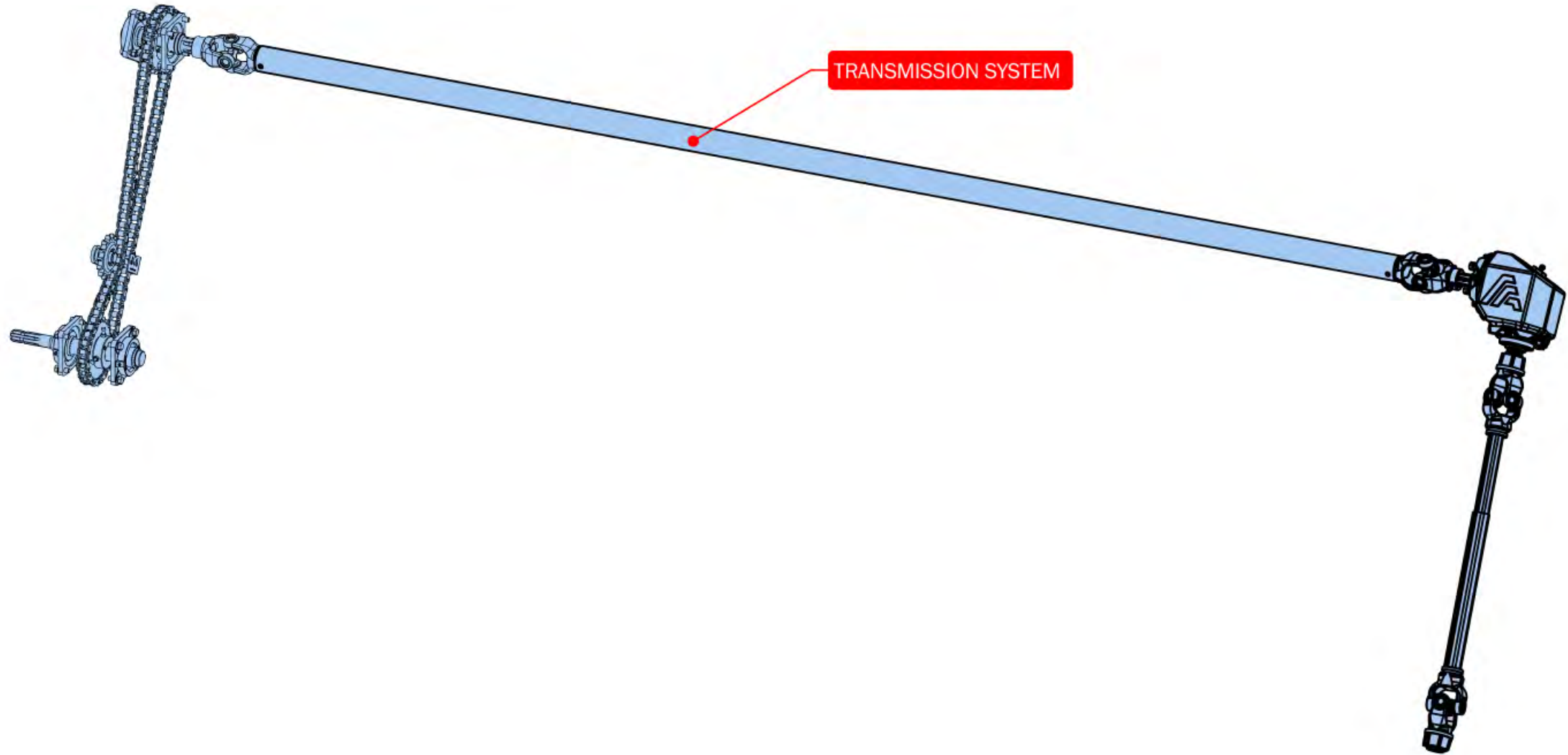
N°	PART	DESIGNATION	QTY
1	27.39.87196	-- Cover Assembly	1
2	27.43.80189	-- Shaft	1
3	98.334.030030	-- Split pin Ø 3 X 30 mm	2

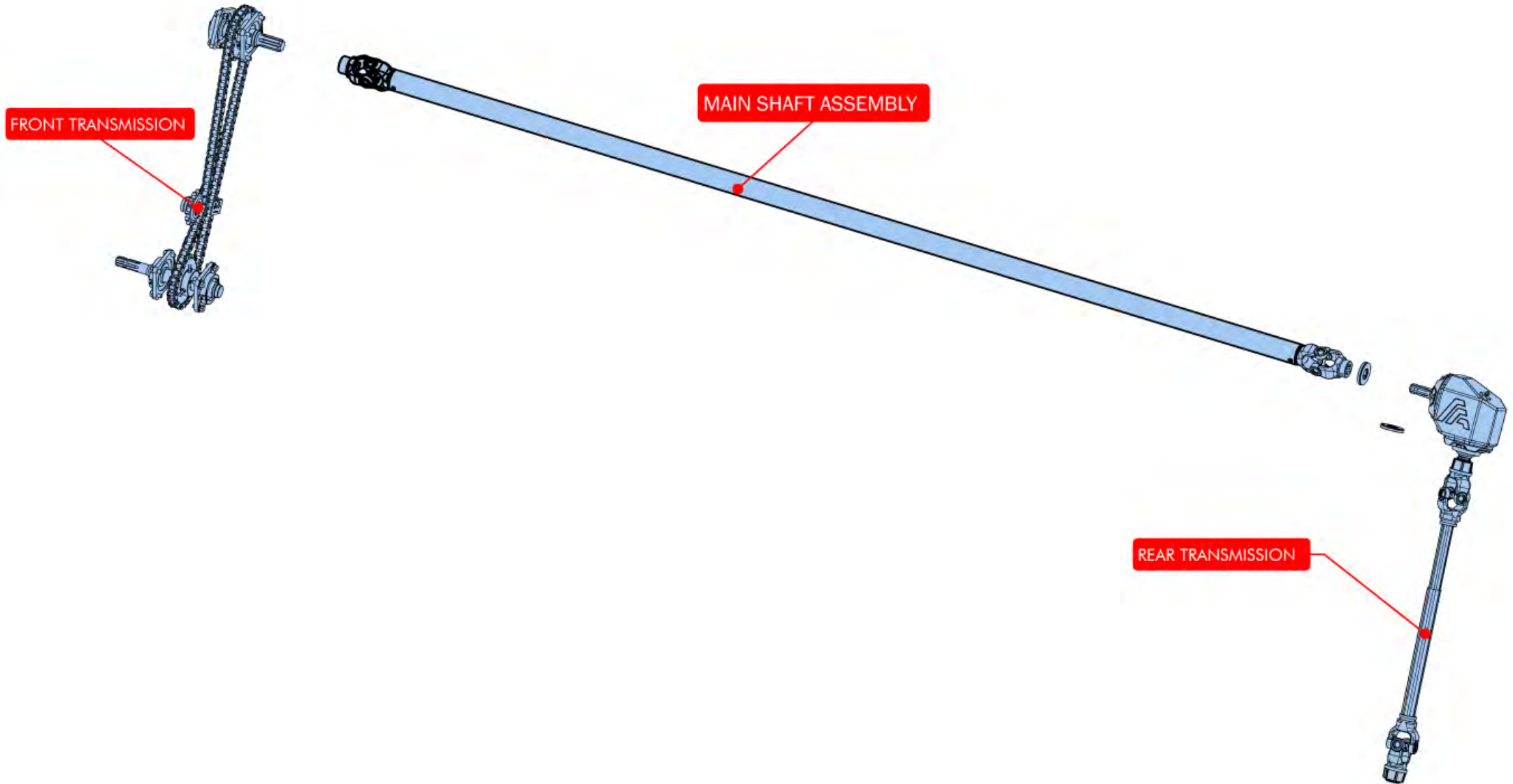


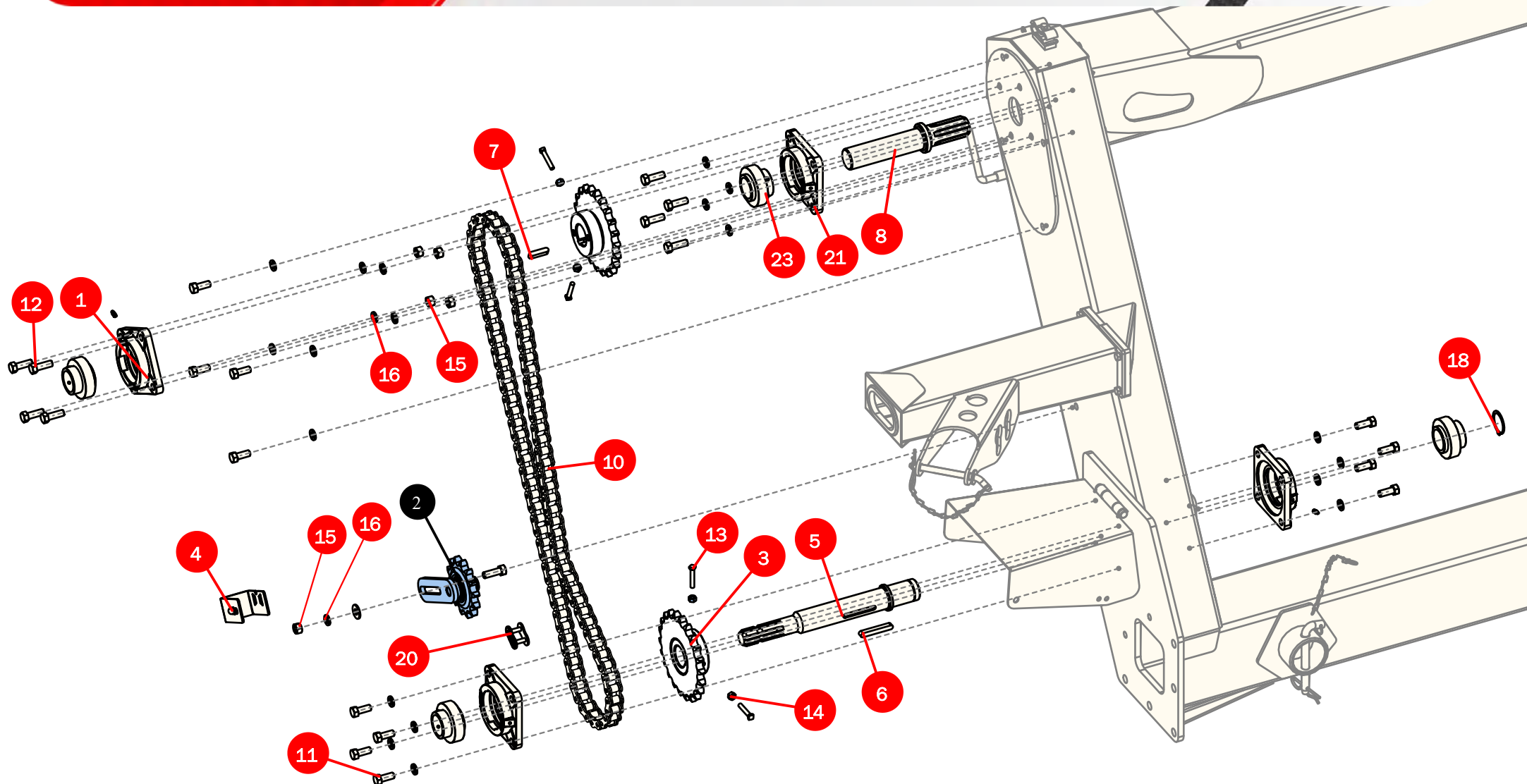
N°	PART	DESIGNATION	QTY
1	25.39.14280	- Assembly Pin	1
2	27.39.88125	-- Hose grommet	1
3	98.002.095022	- Hex. Head Screw Ø3/8" X 7/8" RW G5	4
4	98.310.101095	- Grower Washer Ø 3/8"	4
5	25.39.14280	-- Hose grommet	2



Shear pin value: 1860 Nm
Shear pin: M8x1.25x50 8.8 (Bar Micron)
Shear pin: 5/16"x1 3/4" G2 (Bar EDMA)



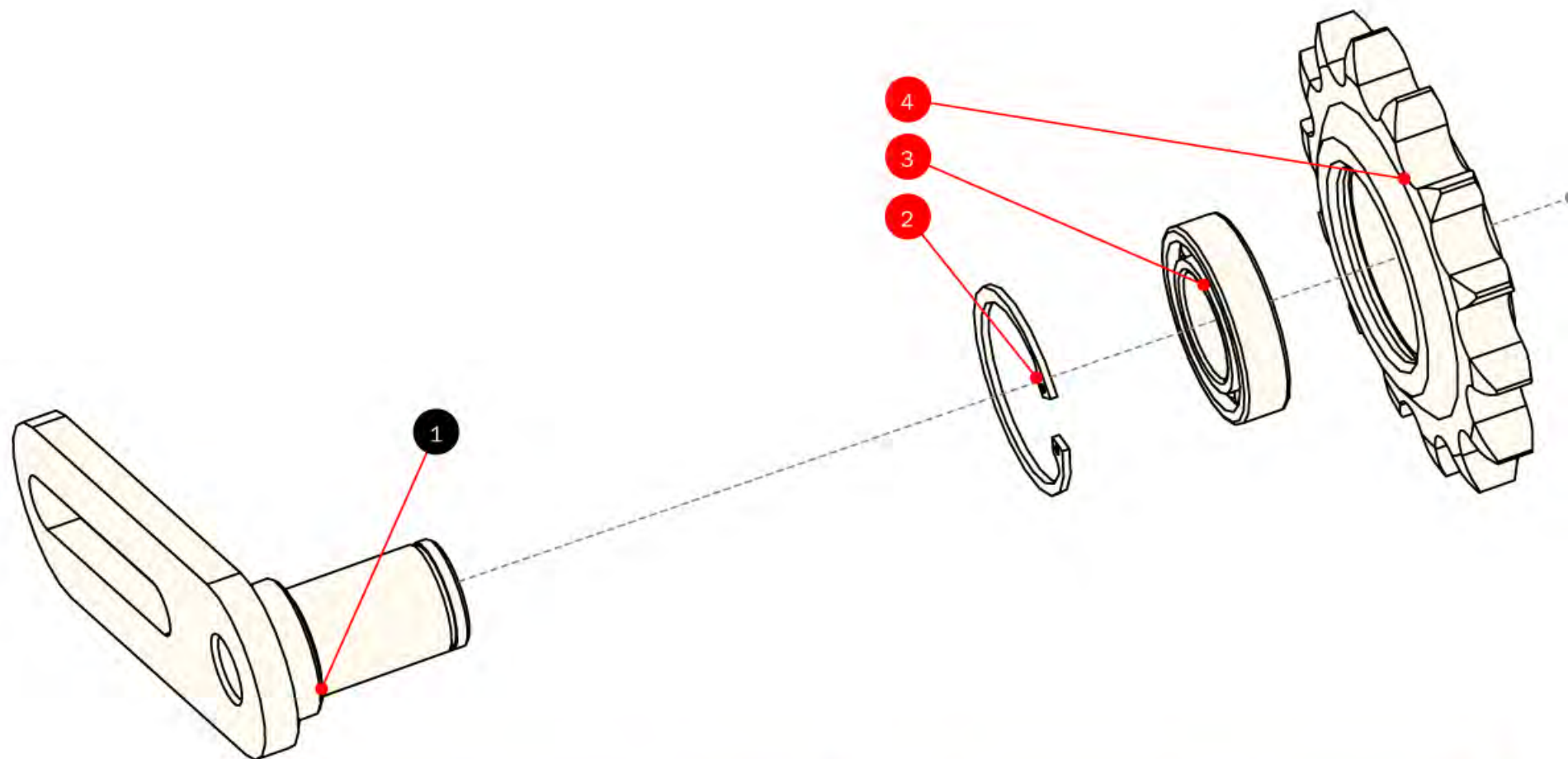




N°	PART	DESIGNATION	QTY
1	06.41.00145	-- Support	4
2	27.39.87368	-- Chain Tensioner Assembly	1
3	27.39.88568	-- Sprocket Assembly Z22-2020	2
4	27.42.87546	-- Chain tension indicator	1
5	27.43.85188	- Splined	1
6	27.43.85553	-- Cotter pin 10 X 10 X 74	1
7	27.43.85554	-- Cotter pin 10X10X44	1

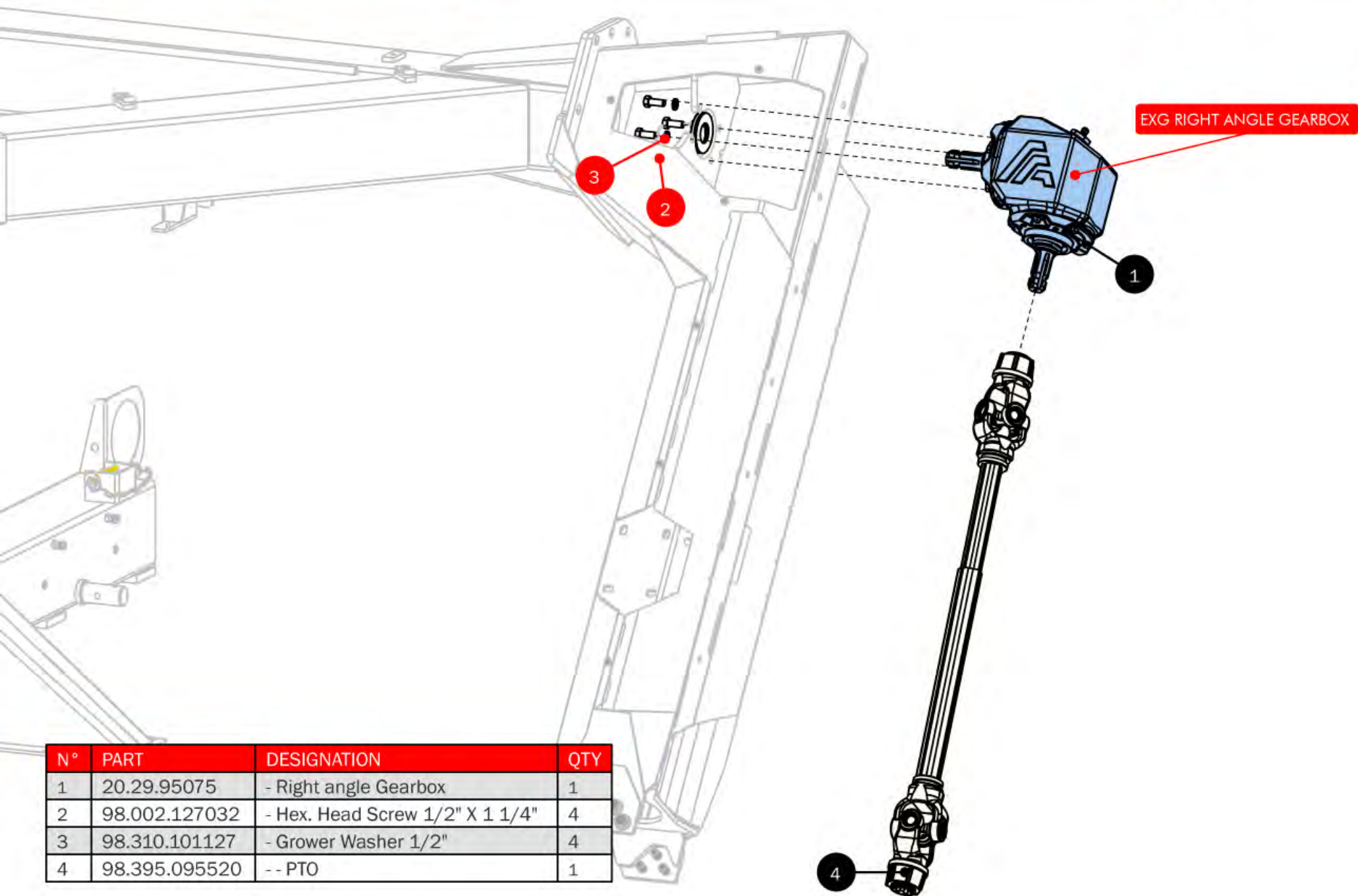
N°	PART	DESIGNATION	QTY
8	27.43.85580	- Splined	1
10	27.43.88566	-- Chain	1
11	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	12
12	98.002.127038	- Hex. Head Screw 1/2" X 1 1/2"	9
13	98.061.079044	-- Stud 5/16" X 1 3/4"	4
14	98.301.150079	- Hex Nut G5 5/16" RW	4
15	98.301.150127	- Hex Nut G5 Ø 1/2" RW	5

N°	PART	DESIGNATION	QTY
16	98.310.101127	- Grower Washer 1/2"	21
18	98.321.000450	- Inner Retaining ring Ø45	1
20	98.388.110254	-- ASA joint	1
21	98.460.300063	Straight Grease Fitting 1/4" NF	4
23	98.755.069545	-- Bearing 209	4

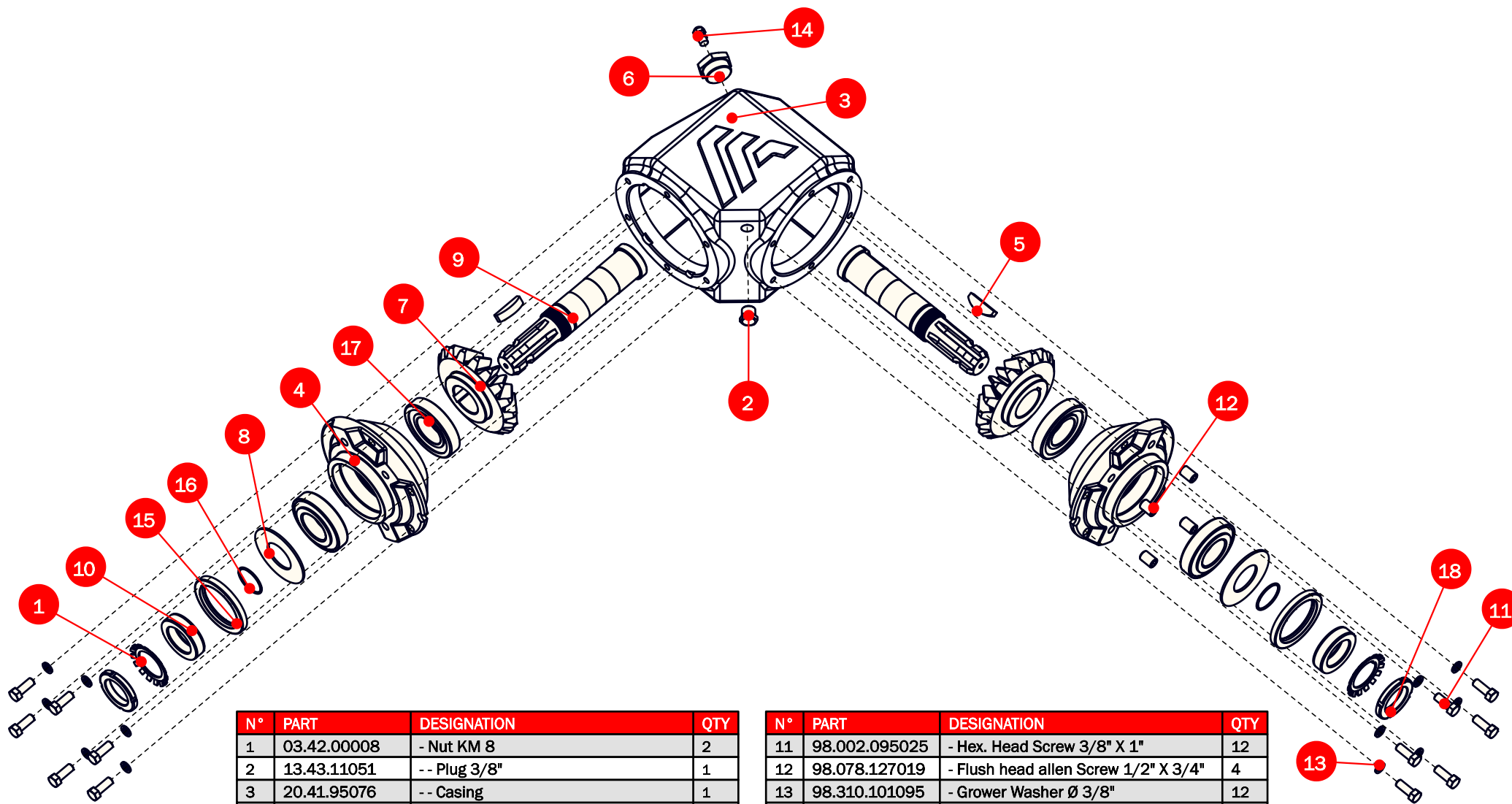


N°	PART	DESIGNATION	QTY
1	27.39.87369	-- Tightener Assembly	1
2	98.322.000550	-- Key ring Ø55	1
3	98.705.105876	-- Bearing 6006	1

N°	PART	DESIGNATION	QTY
4	27.43.87367	-- Tensioner Z14 ASA80	1

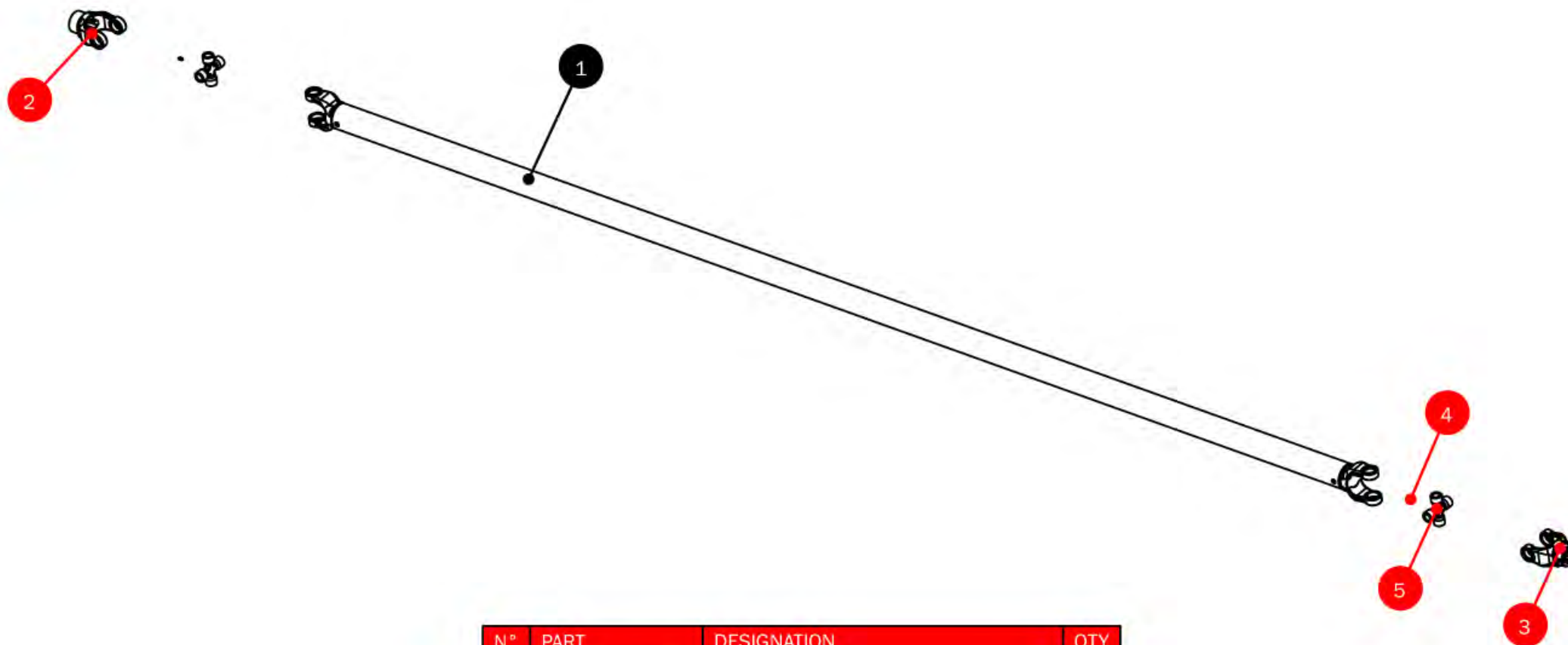


N°	PART	DESIGNATION	QTY
1	20.29.95075	- Right angle Gearbox	1
2	98.002.127032	- Hex. Head Screw 1/2" X 1 1/4"	4
3	98.310.101127	- Grower Washer 1/2"	4
4	98.395.095520	- - PTO	1

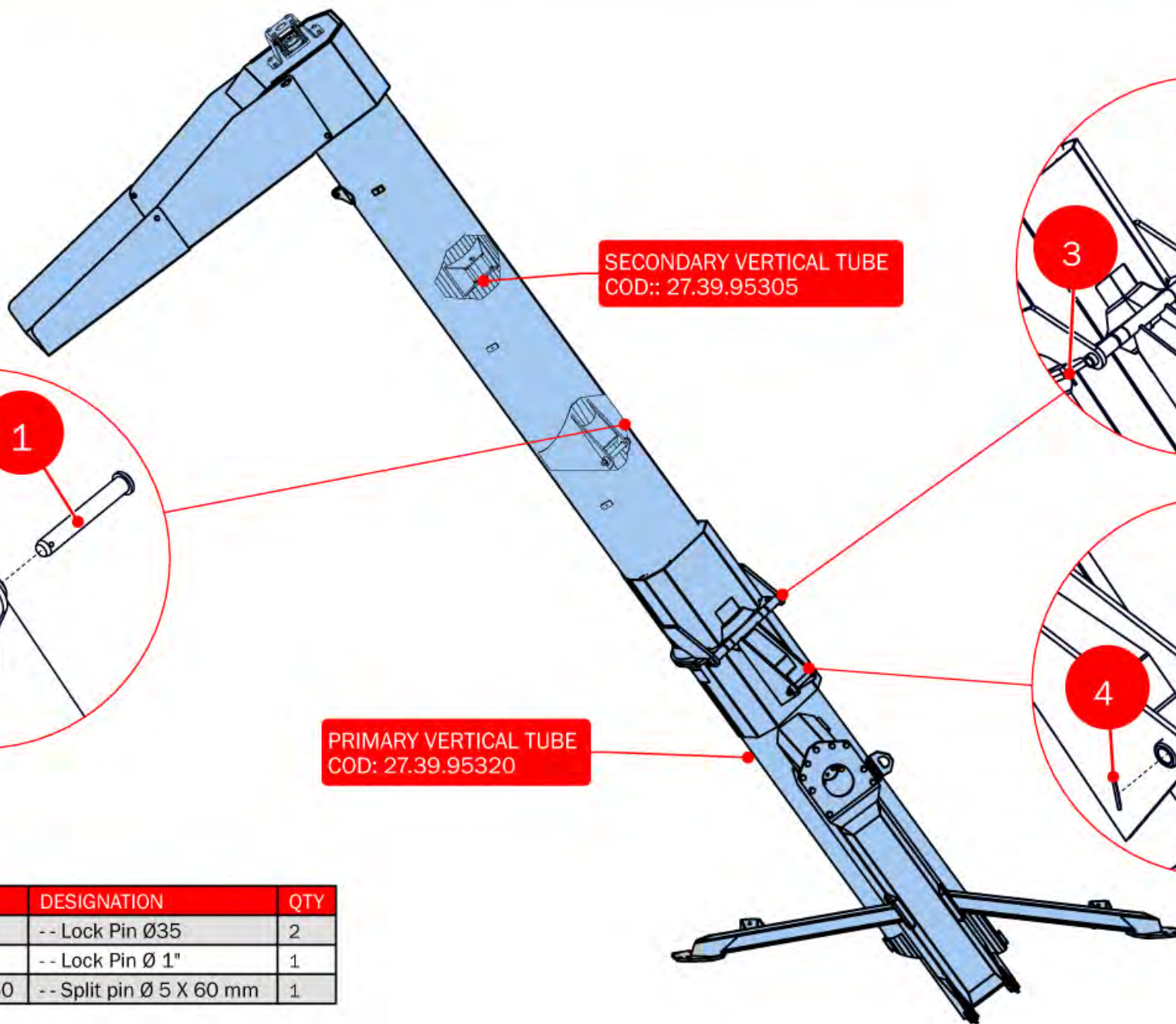


N°	PART	DESIGNATION	QTY
1	03.42.00008	- Nut KM 8	2
2	13.43.11051	-- Plug 3/8"	1
3	20.41.95076	-- Casing	1
4	20.41.95077	-- Cast Iron Trunk	2
5	20.43.09813	-- Cotter pin	2
6	20.43.80024	-- Rubber Cover	1
7	20.43.95078	-- Gear wheel Z18 - Ø5"1/2	2
8	20.43.95080	-- Washer	2
9	20.43.95081	-- Shaft Ø2"	2
10	20.43.95082	-- Washer	2

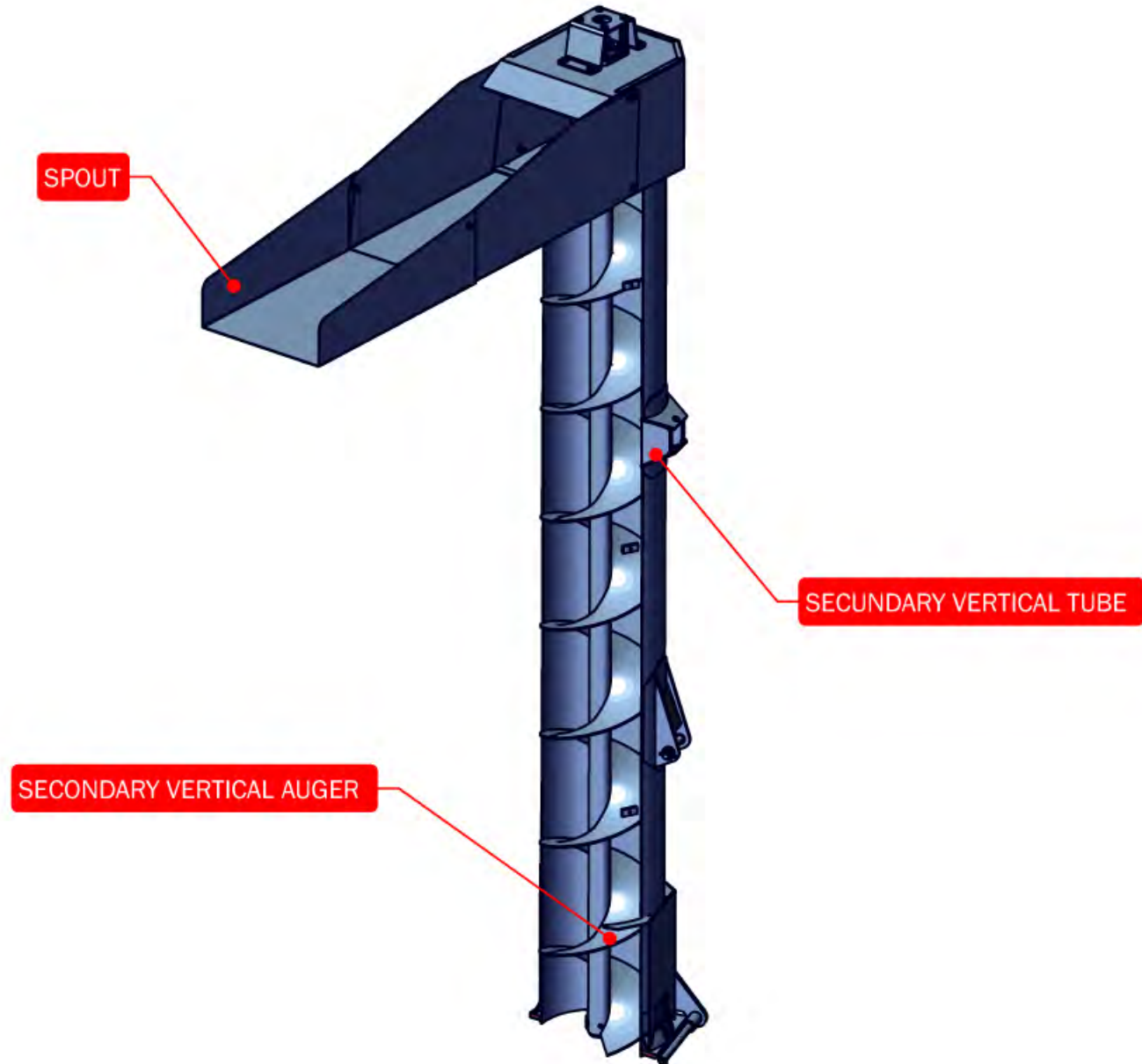
N°	PART	DESIGNATION	QTY
11	98.002.095025	- Hex. Head Screw 3/8" X 1"	12
12	98.078.127019	- Flush head allen Screw 1/2" X 3/4"	4
13	98.310.101095	- Grower Washer Ø 3/8"	12
14	98.370.100972	- Breathing Valve 1/8" BSP	1
15	98.611.105365	- DBH Oil Seal 5365	2
16	98.620.003552	-- Rubber	2
17	98.730.330840	-- Bearing 30208	4
18	02.43.00008	-- Washer MB-08	2

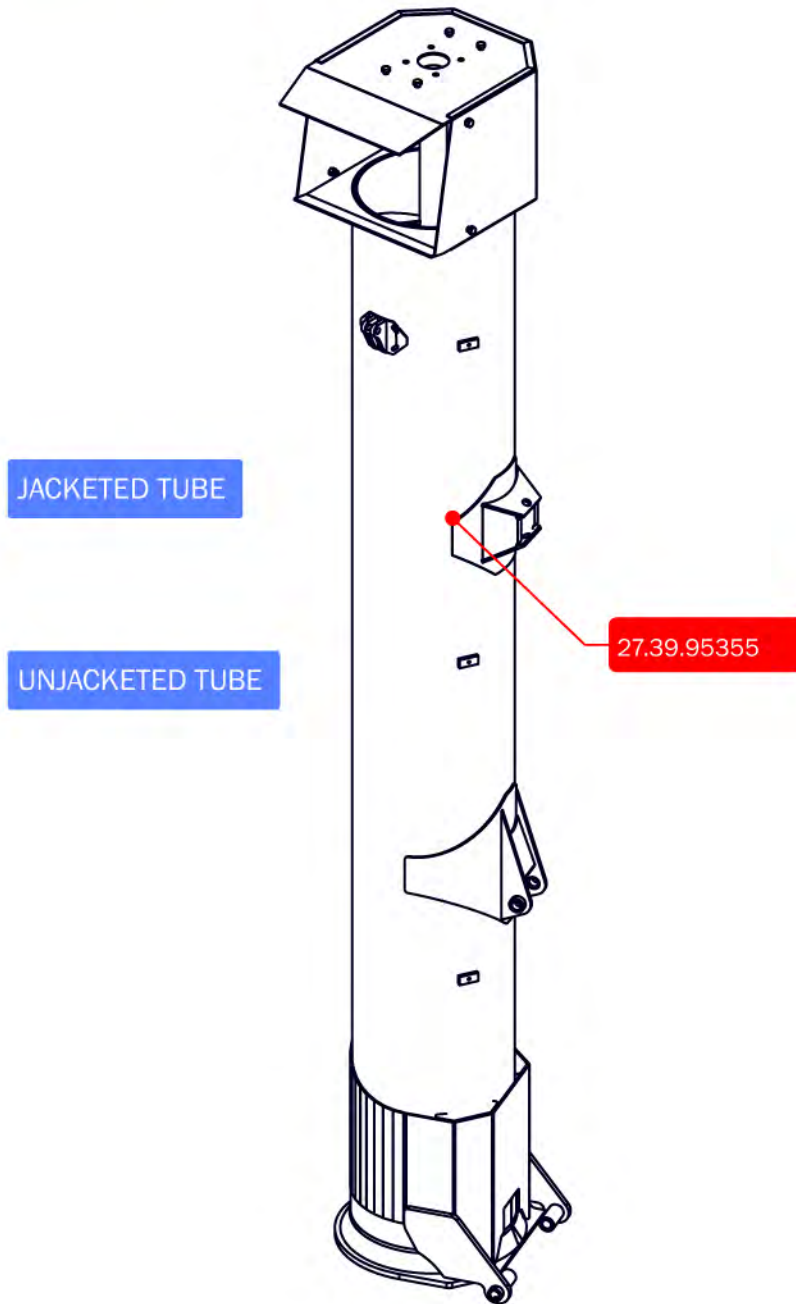


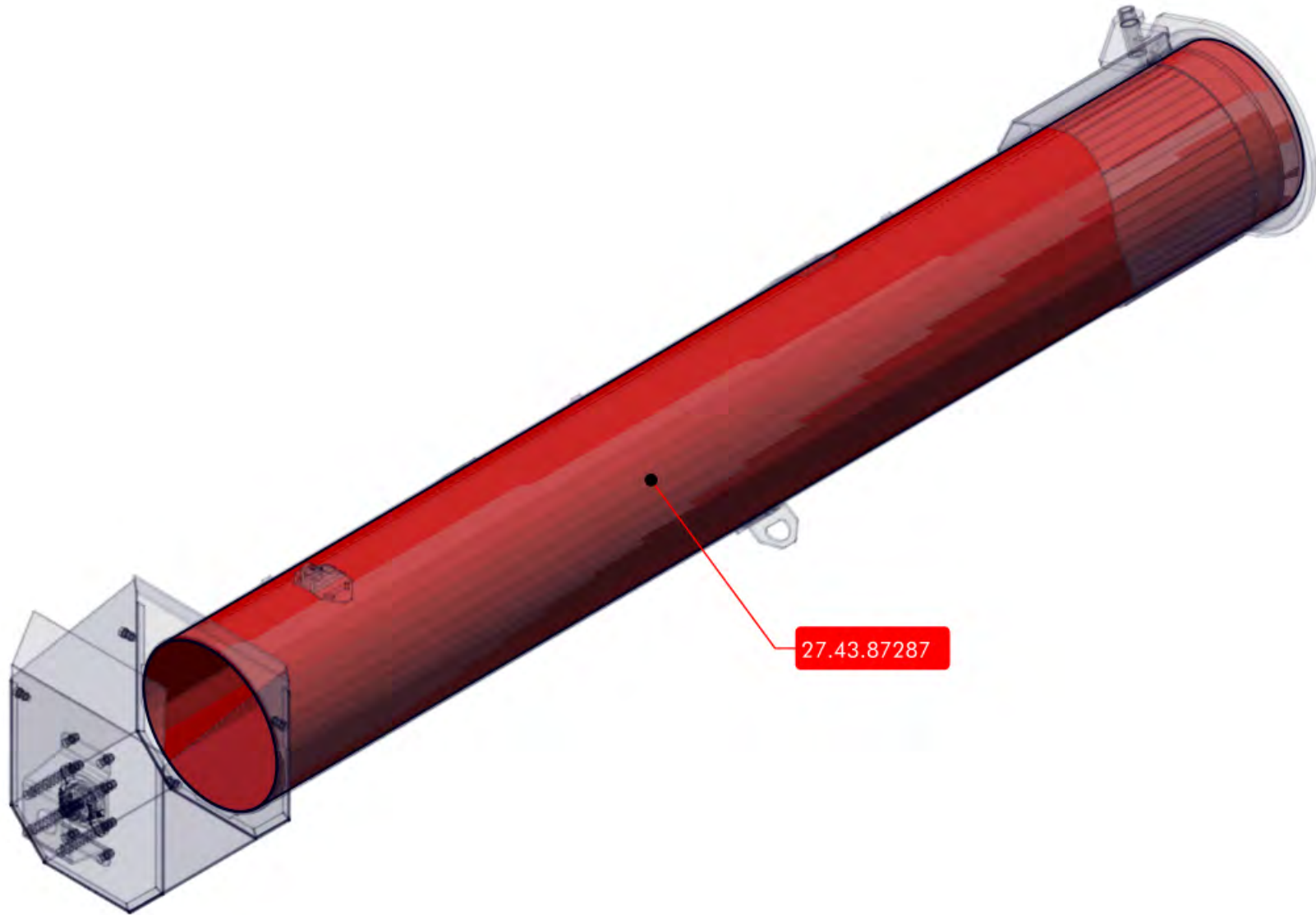
N°	PART	DESIGNATION	QTY
1	27.39.85582	- Shaft Assembly	1
2	30.43.51846	-- Swivel Bracket	1
3	30.43.51848	-- Swivel bracket	1
4	98.461.300063	- Straight Grease Fitting 65° 1/4" NF	2
5	98.780.037800	-- Universal cross joint	2

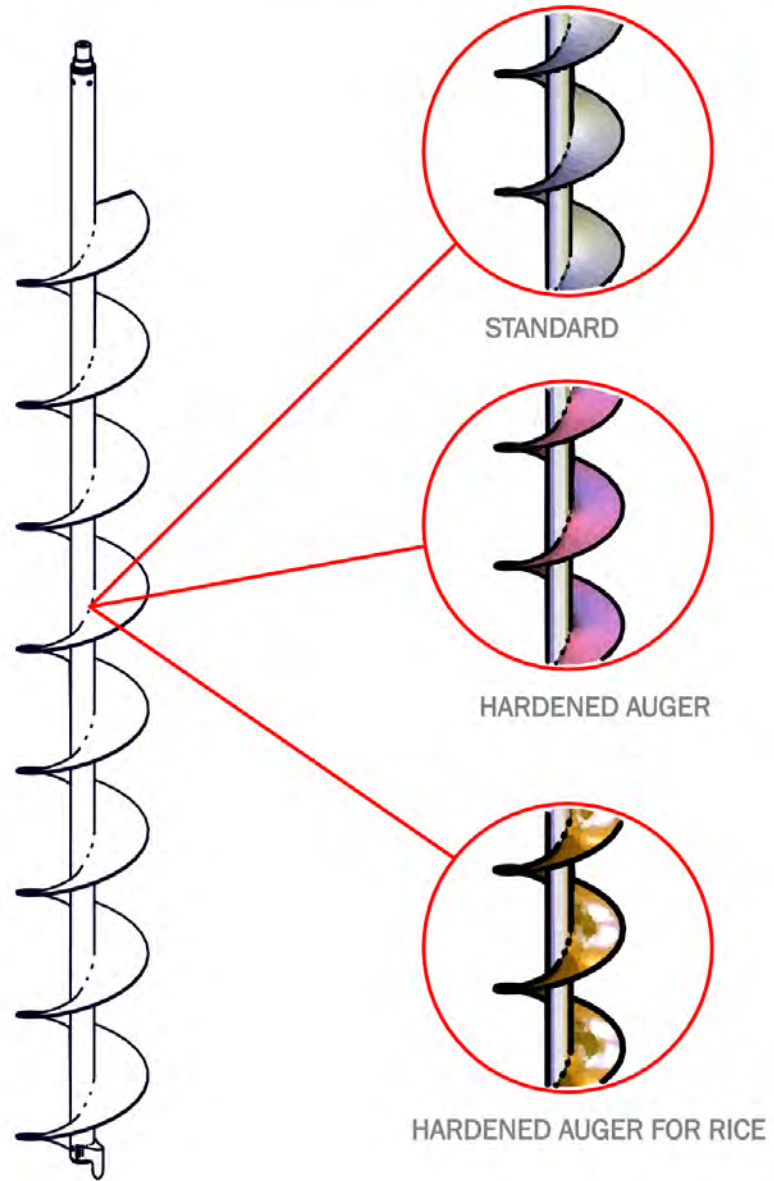


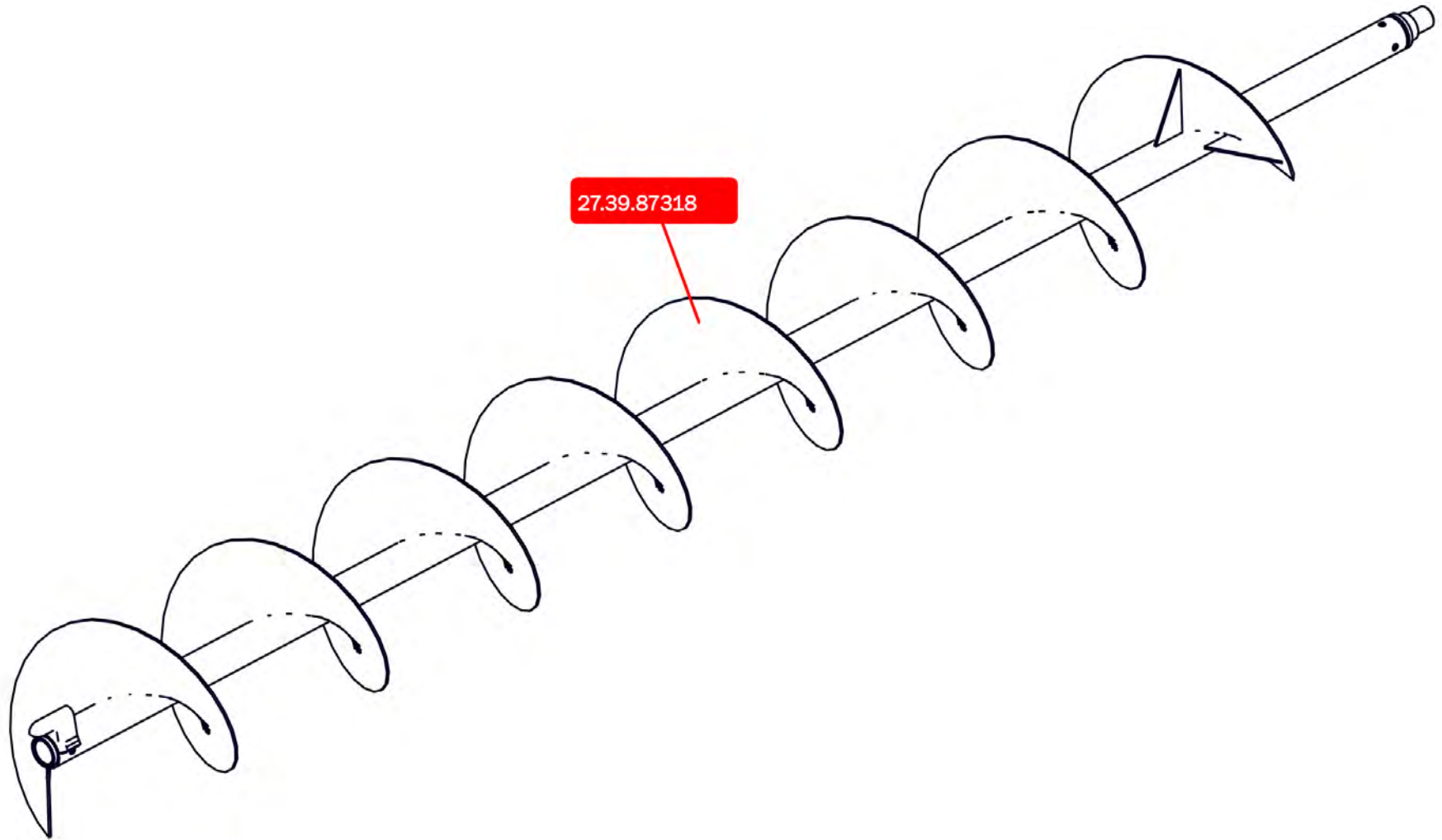
N°	PART	DESIGNATION	QTY
1	25.43.25324	-- Lock Pin Ø35	2
2	27.43.85303	-- Lock Pin Ø 1"	1
4	98.334.050050	-- Split pin Ø 5 X 60 mm	1

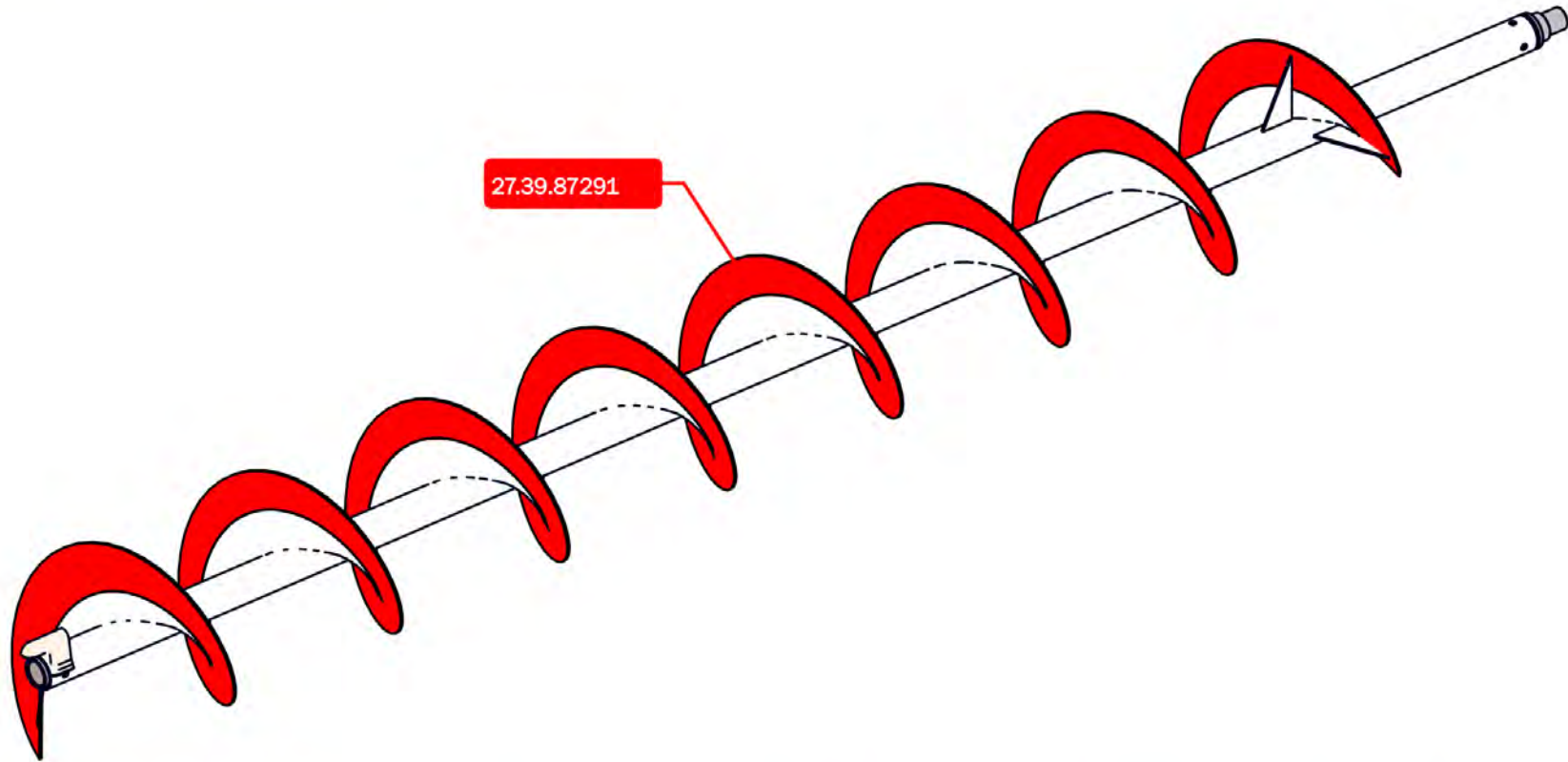








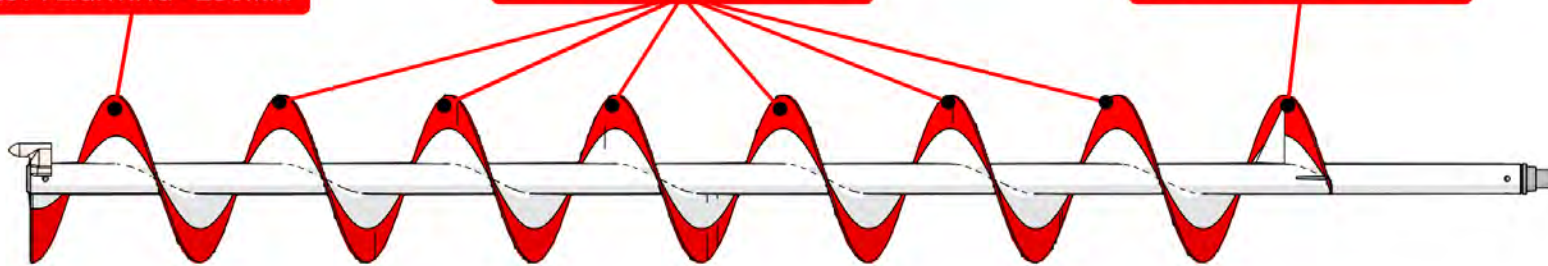


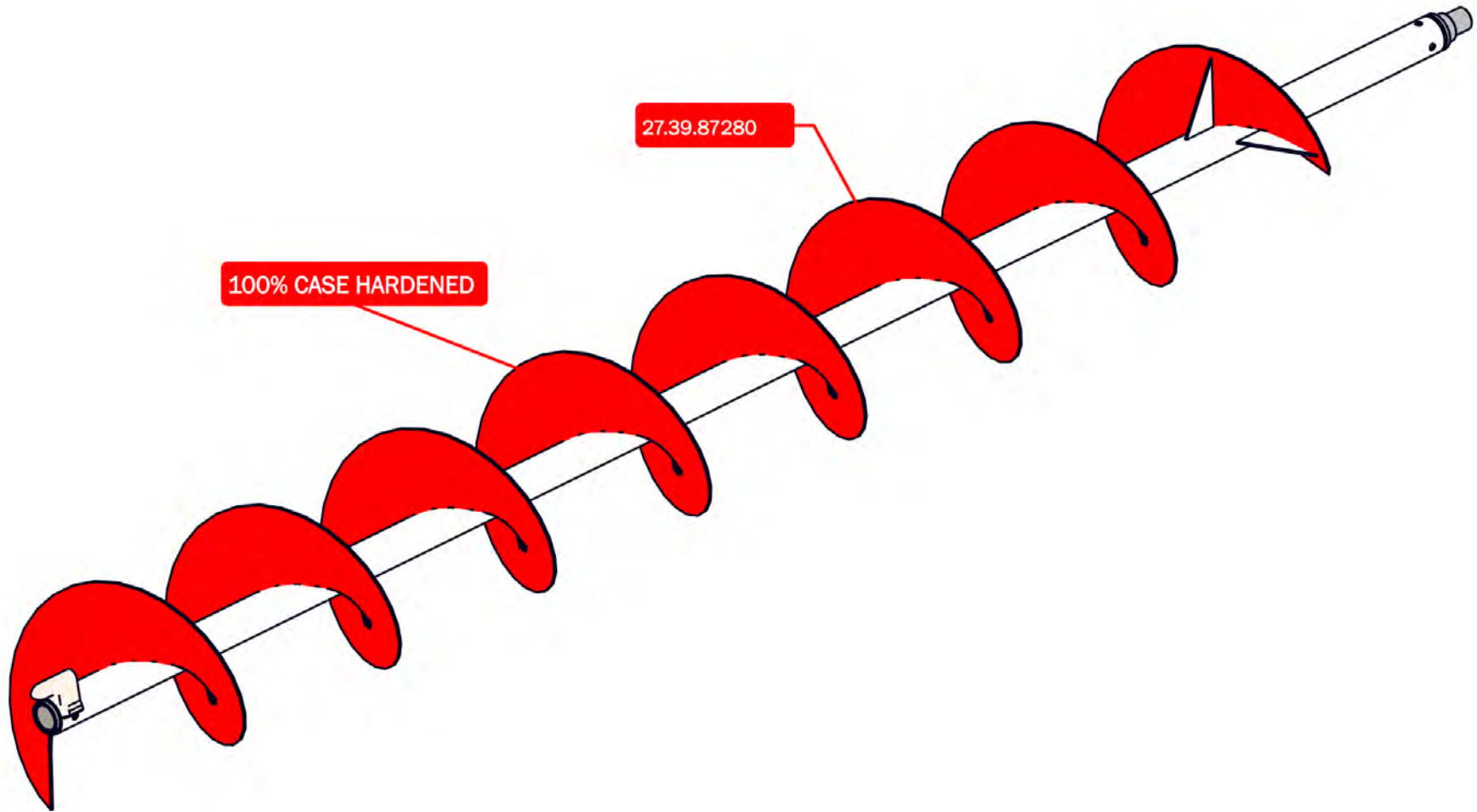


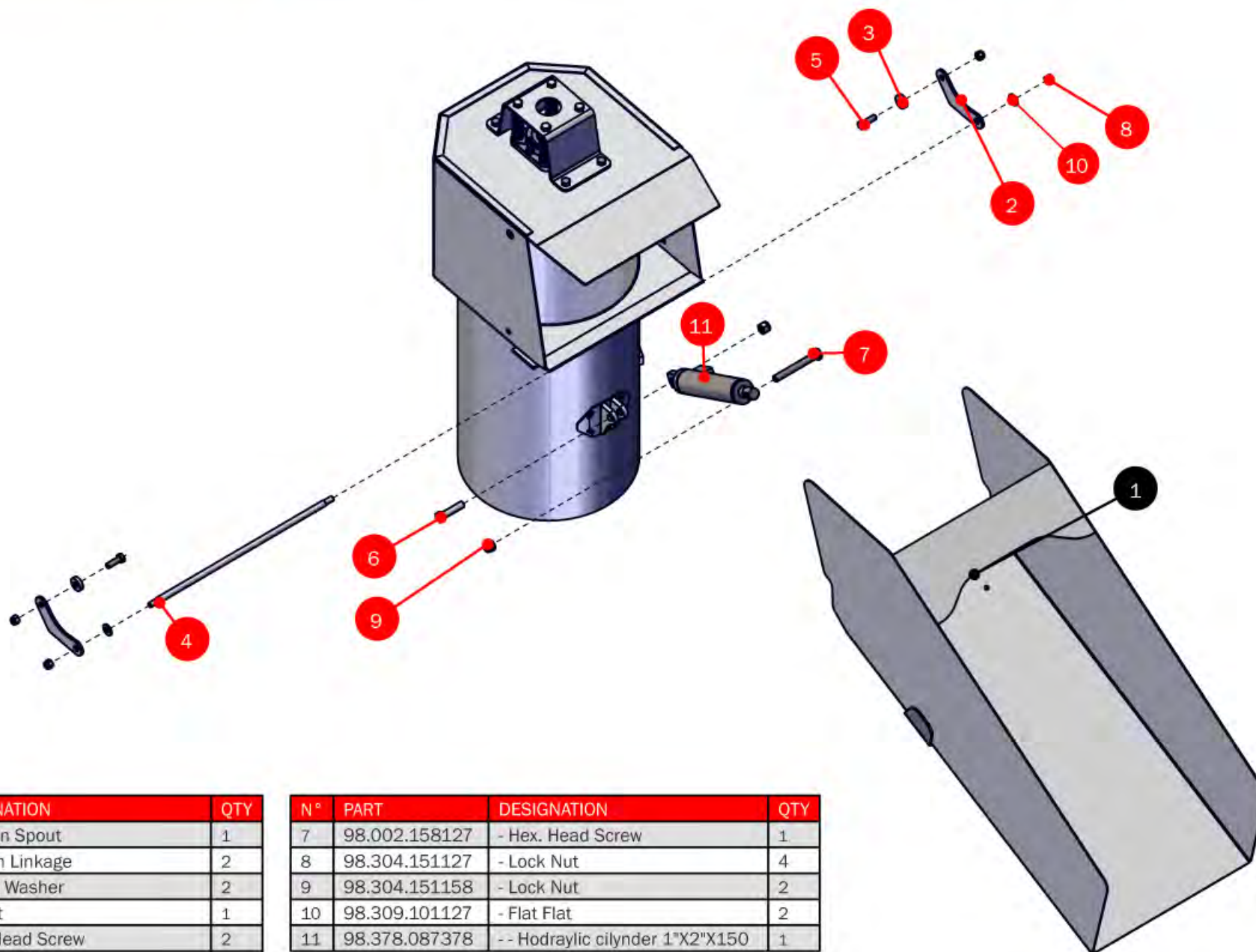
FIRST FLIGHTING - 130MM

MIDDLE FLIGHTINGS - 80MM

LAST FLIGHTING - 130MM

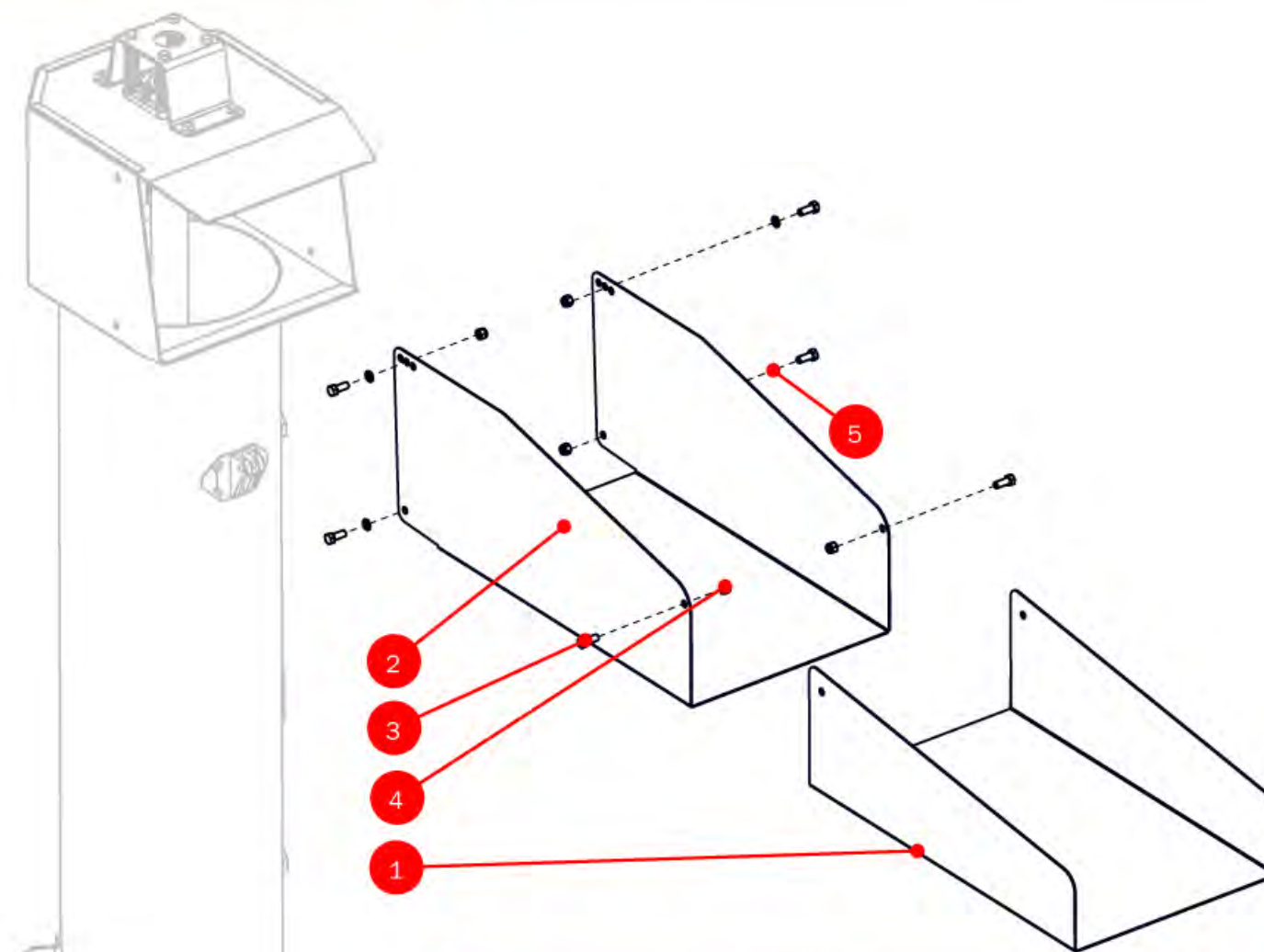




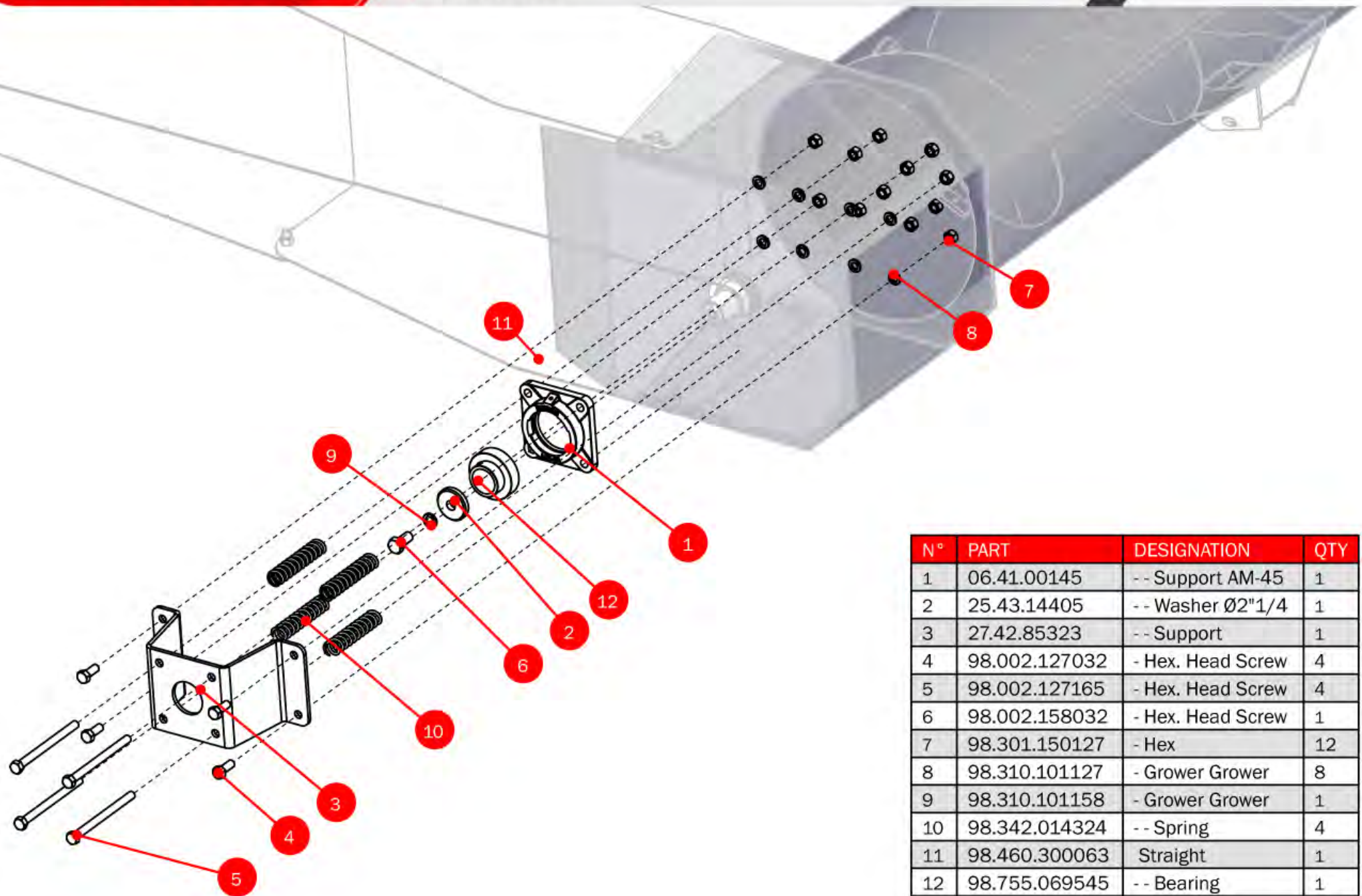


N°	PART	DESIGNATION	QTY
1	27.39.87377	-- Down Spout	1
2	27.42.87382	-- Down Linkage	2
3	27.42.87383	--- Flat Washer	2
4	27.43.87384	-- Shaft	1
5	98.002.127038	- Hex. Head Screw	2
6	98.002.158063	- Hex. Head Screw	1

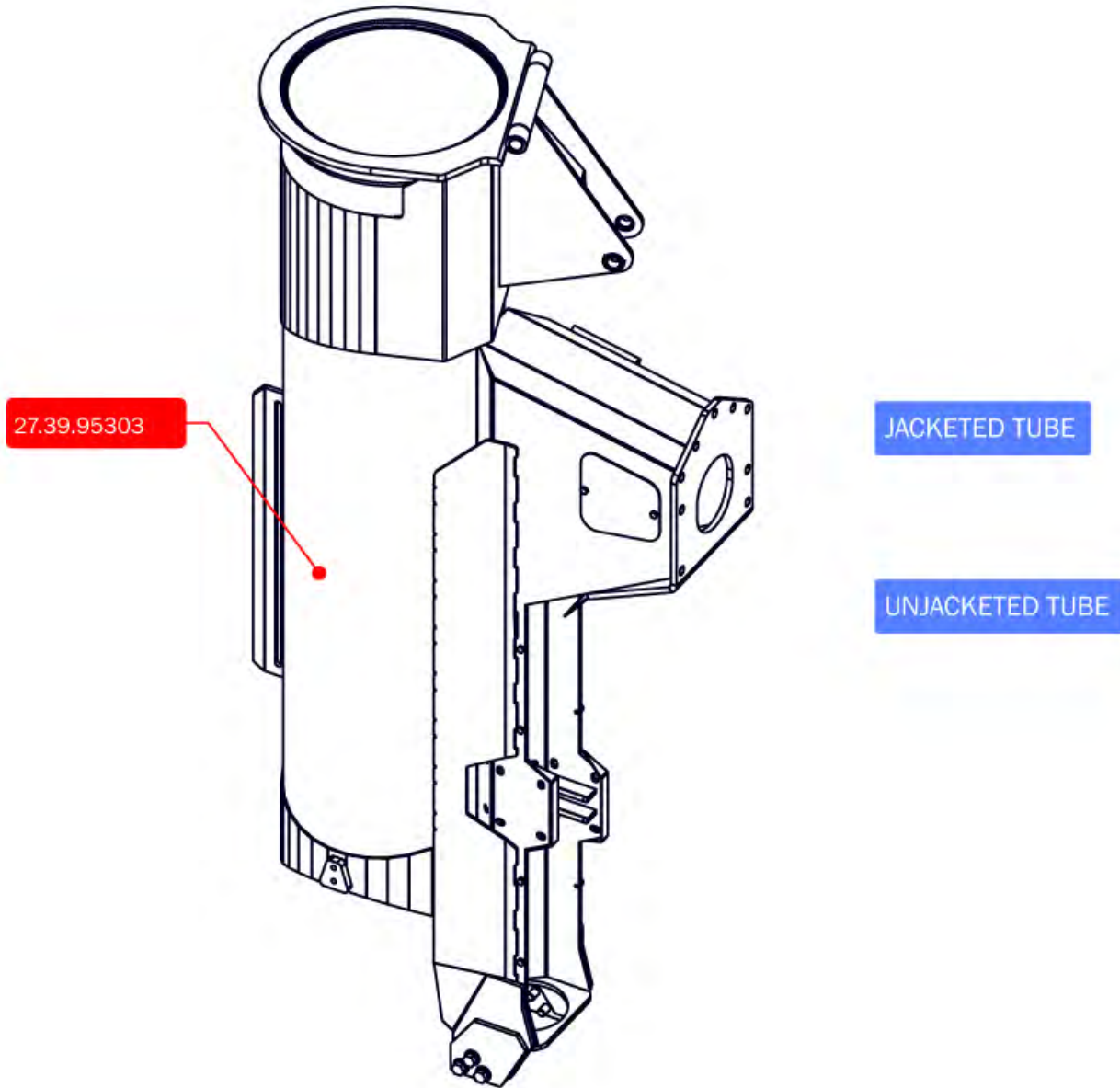
N°	PART	DESIGNATION	QTY
7	98.002.158127	- Hex. Head Screw	1
8	98.304.151127	- Lock Nut	4
9	98.304.151158	- Lock Nut	2
10	98.309.101127	- Flat Flat	2
11	98.378.087378	-- Hodraylic cilynder 1"X2"X150	1

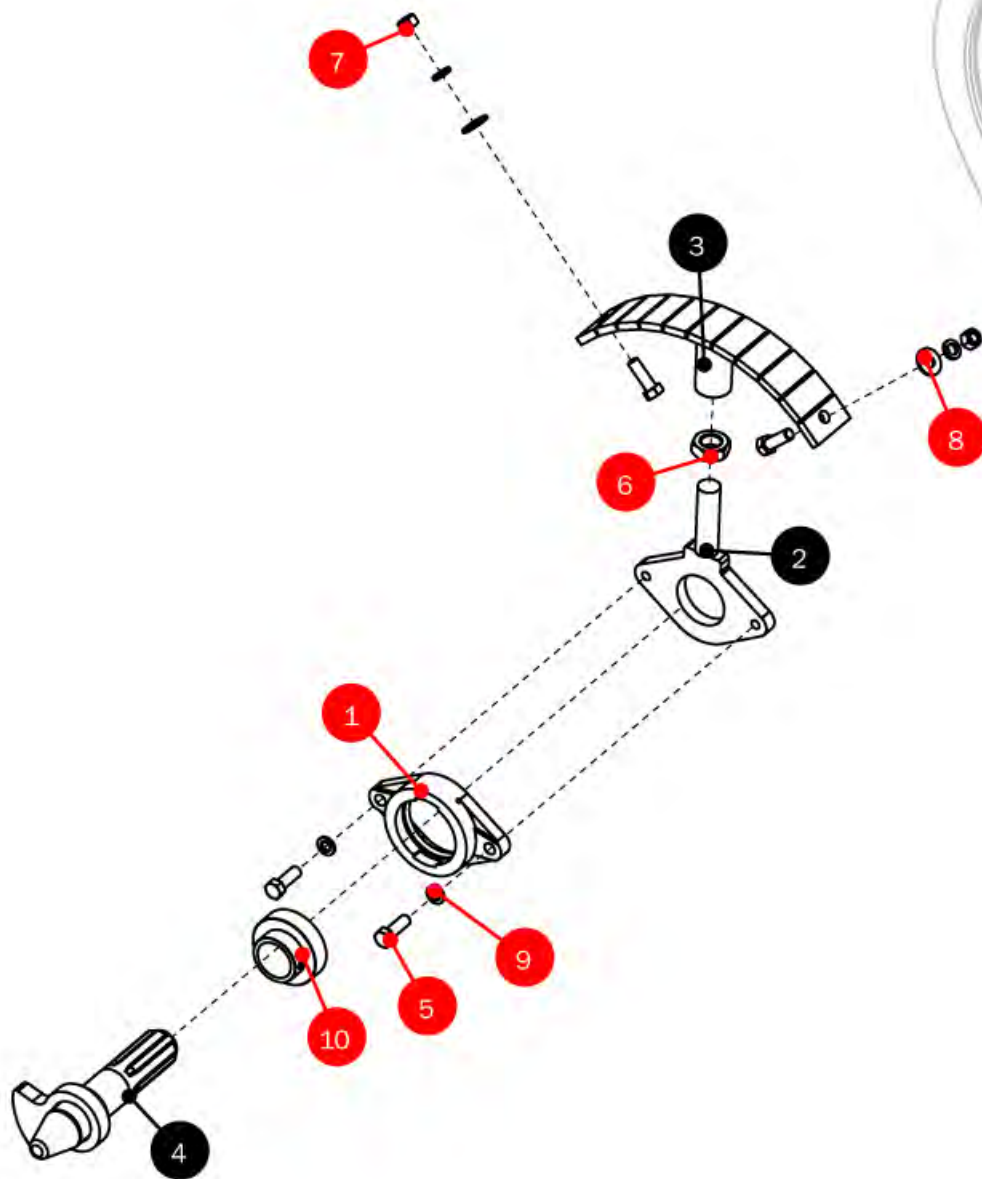


N°	PART	DESIGNATION	QTY
1	27.42.88332	-- Adjustable spout extension	1
2	27.42.88333	-- Spout with extension	1
3	98.002.127032	- Hex. Head Screw	6
4	98.304.151127	- Lock Nut	6
5	98.311.101127	- Chamfered Chamfered	4

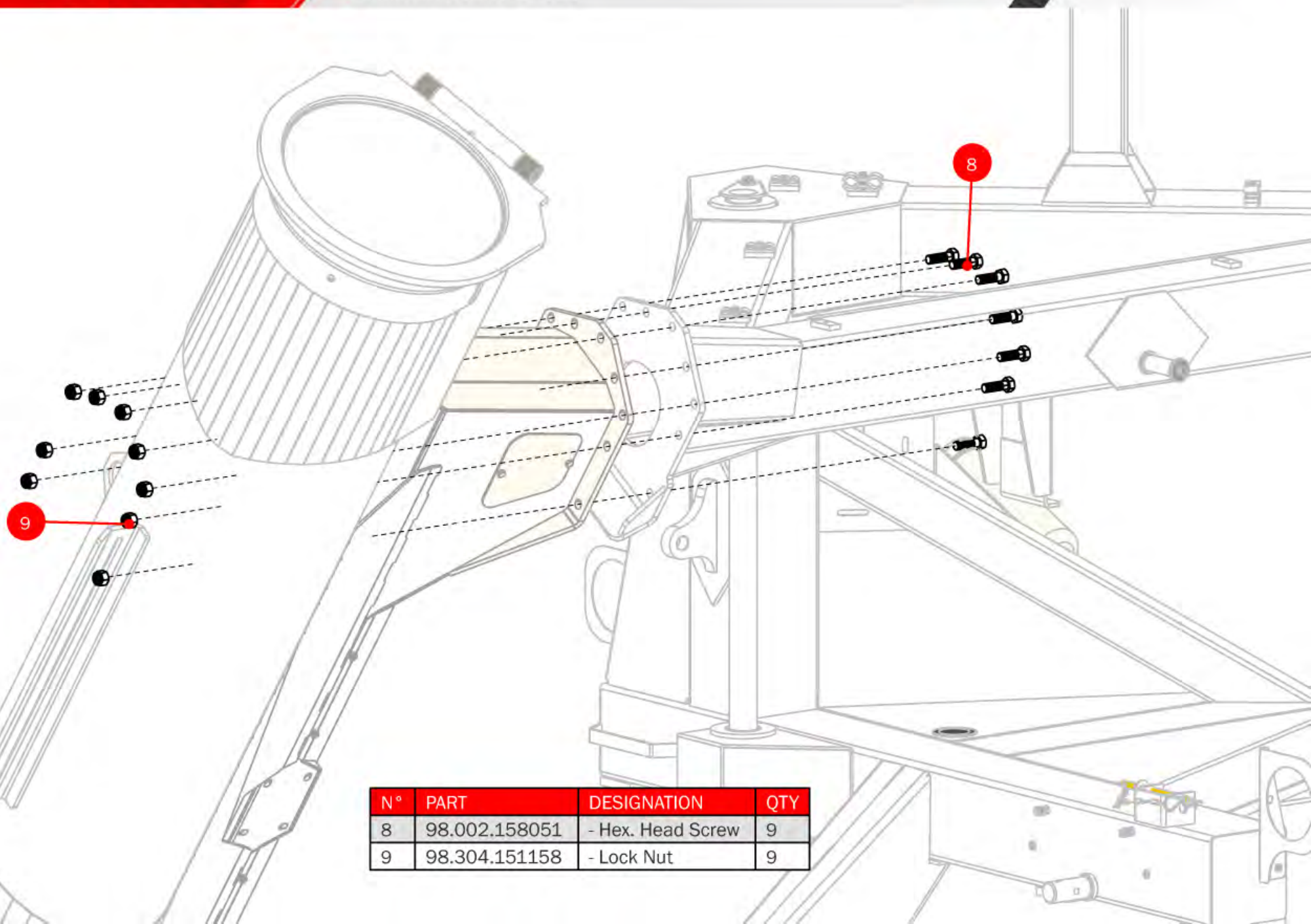


N°	PART	DESIGNATION	QTY
1	06.41.00145	-- Support AM-45	1
2	25.43.14405	-- Washer Ø2"1/4	1
3	27.42.85323	-- Support	1
4	98.002.127032	- Hex. Head Screw	4
5	98.002.127165	- Hex. Head Screw	4
6	98.002.158032	- Hex. Head Screw	1
7	98.301.150127	- Hex	12
8	98.310.101127	- Grower Grower	8
9	98.310.101158	- Grower Grower	1
10	98.342.014324	-- Spring	4
11	98.460.300063	Straight	1
12	98.755.069545	-- Bearing	1

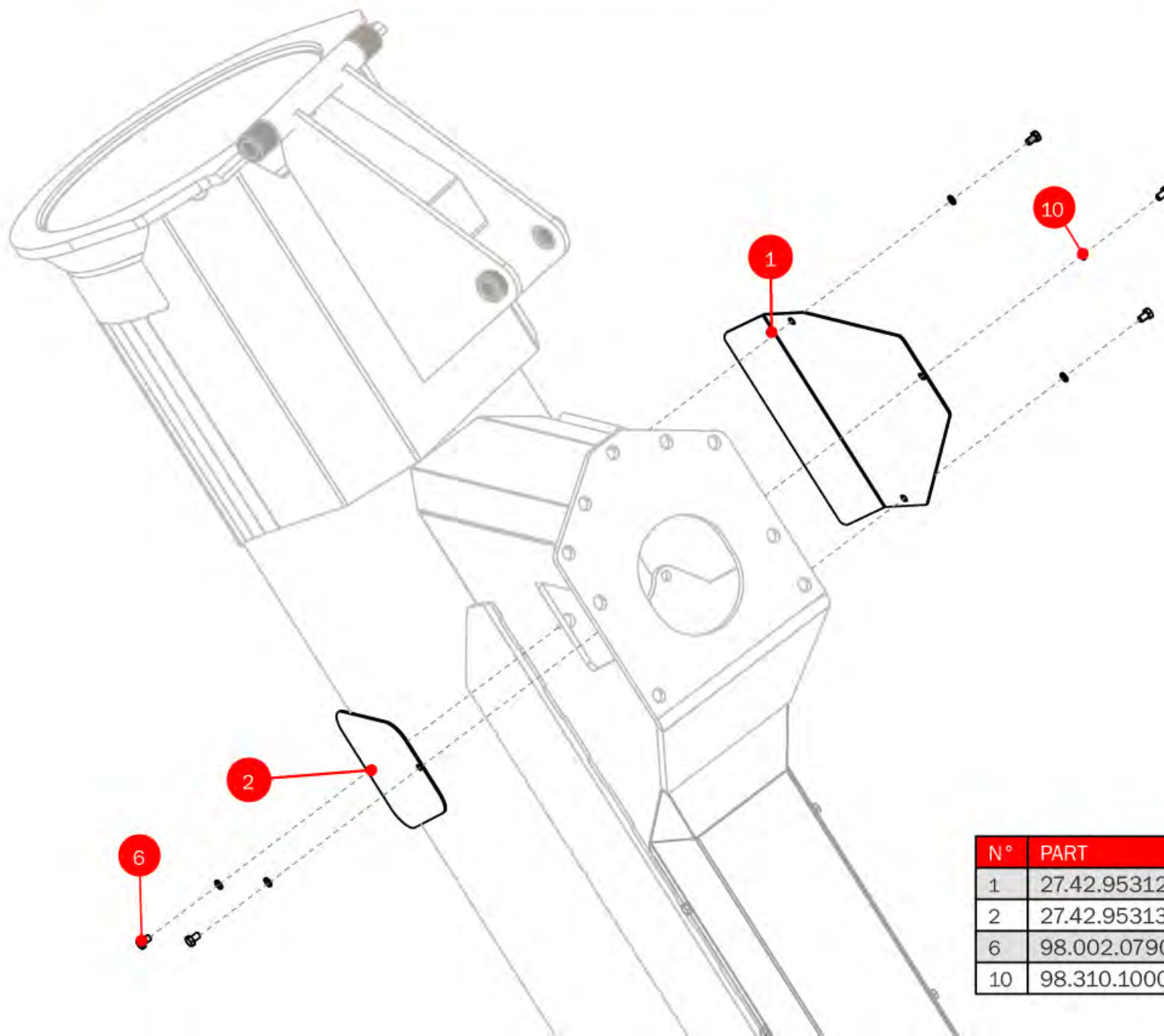




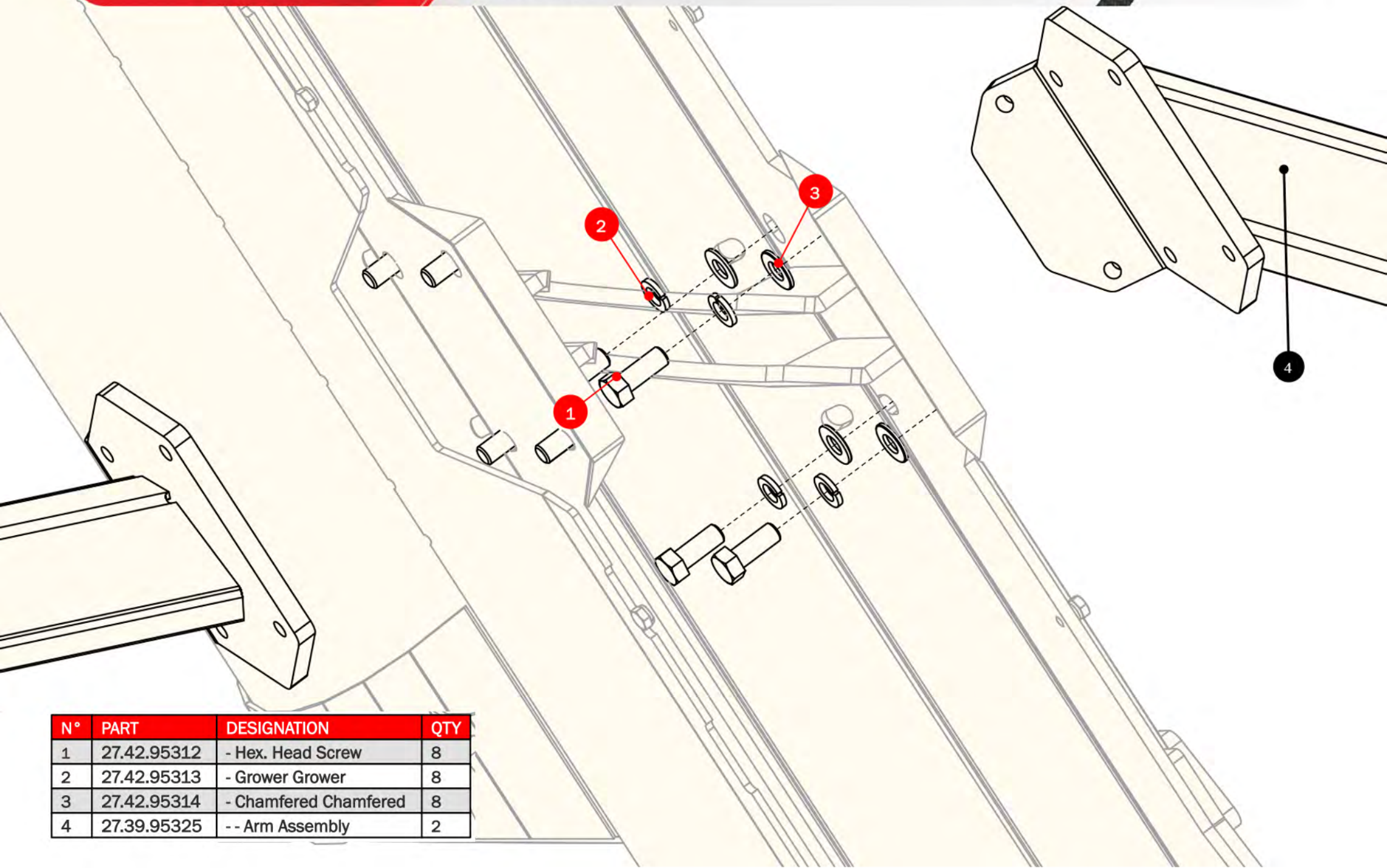
N°	PART	DESIGNATION	QTY
1	06.41.00245	-- Cast Iron	1
2	27.39.80342	-- Plate	1
3	27.39.85315	-- Support Assembly	1
4	27.39.87324	-- Coupling shaft assembly	3
5	98.002.127038	- Hex. Head Screw	4
6	98.300.300317	- Lock	1
7	98.301.150127	- Hex	2
8	98.309.100127	- Flat Flat	2
9	98.310.101127	- Grower Grower	4
10	98.755.069545	-- Bearing UC 209	1



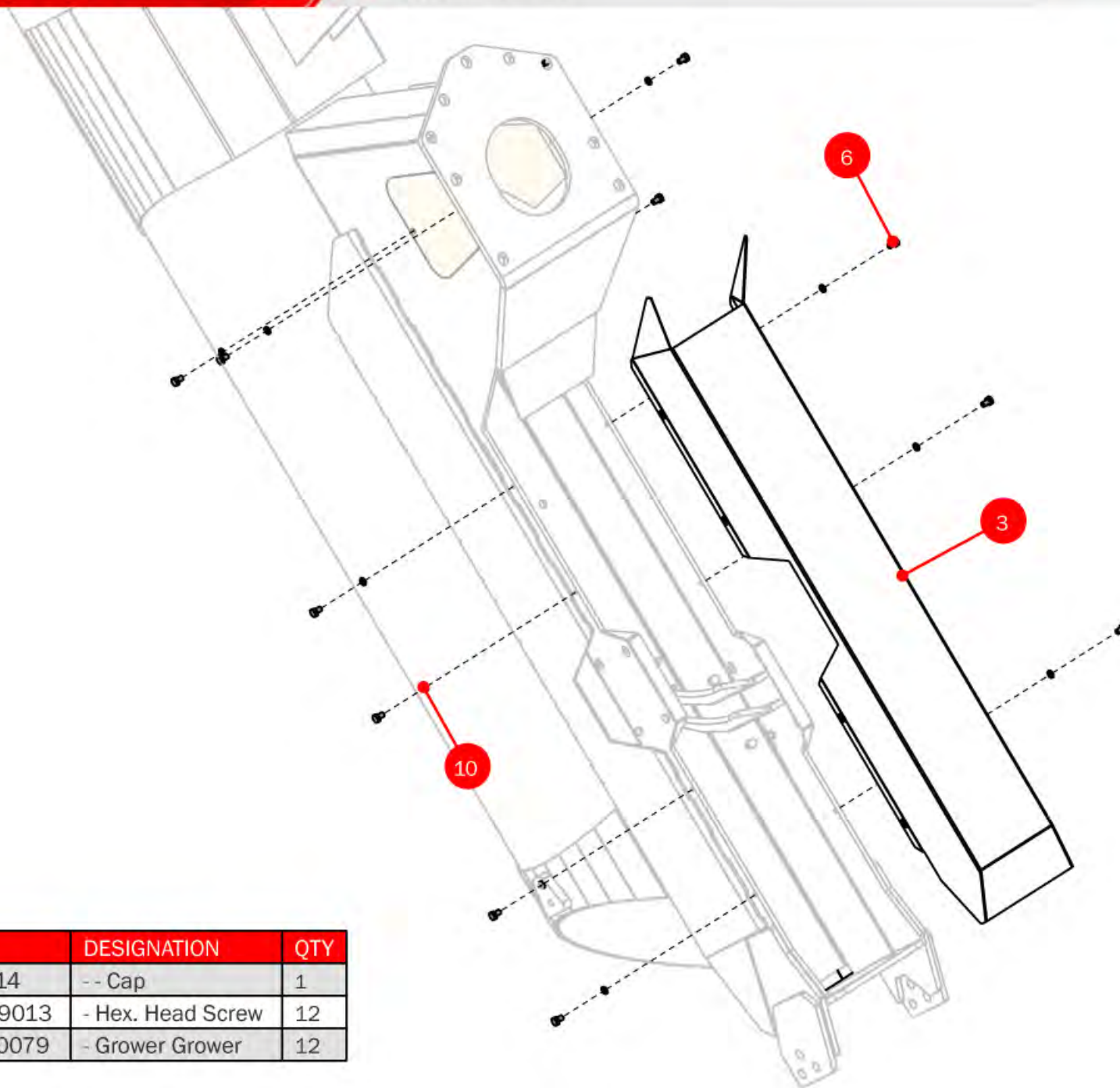
N°	PART	DESIGNATION	QTY
8	98.002.158051	- Hex. Head Screw	9
9	98.304.151158	- Lock Nut	9



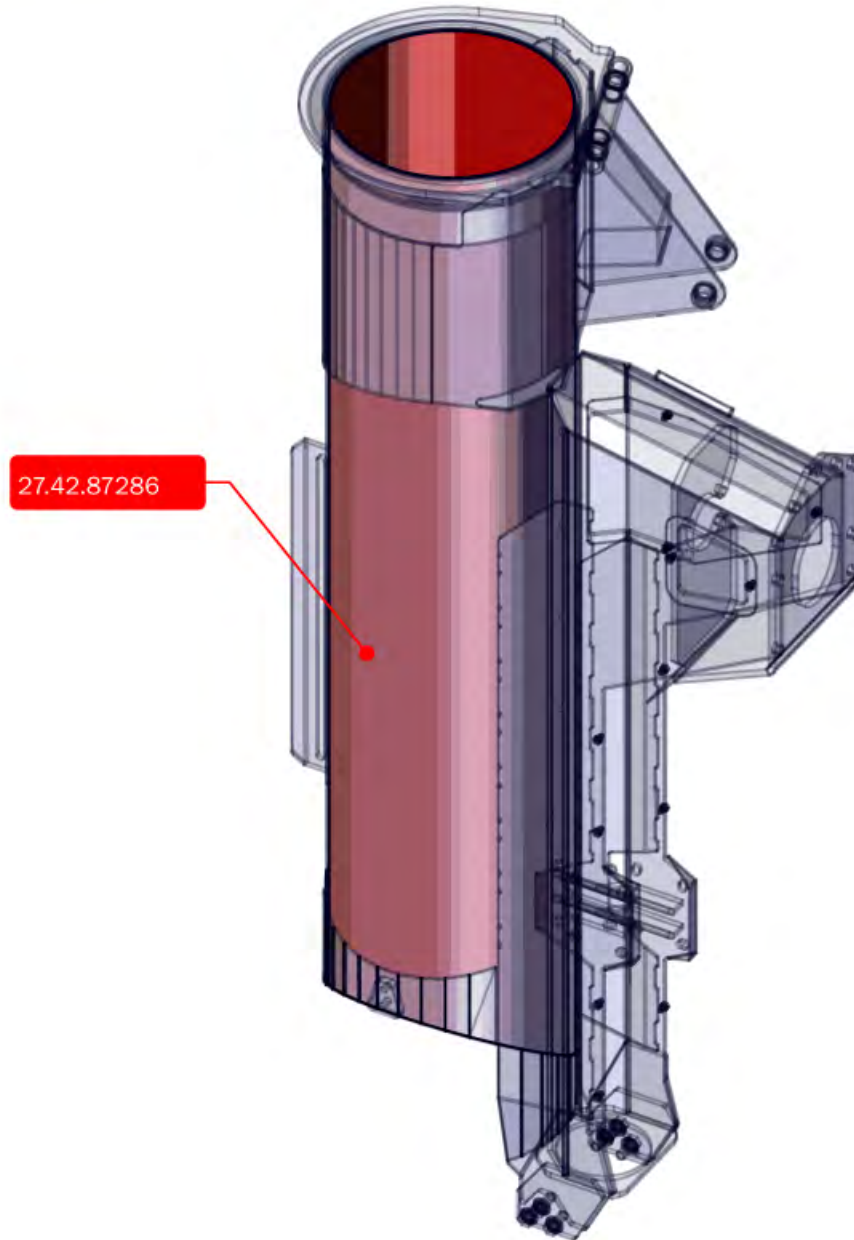
N°	PART	DESIGNATION	QTY
1	27.42.95312	-- Cap	1
2	27.42.95313	-- Cap	1
6	98.002.079013	- Hex. Head Screw	5
10	98.310.100079	- Grower Grower	5

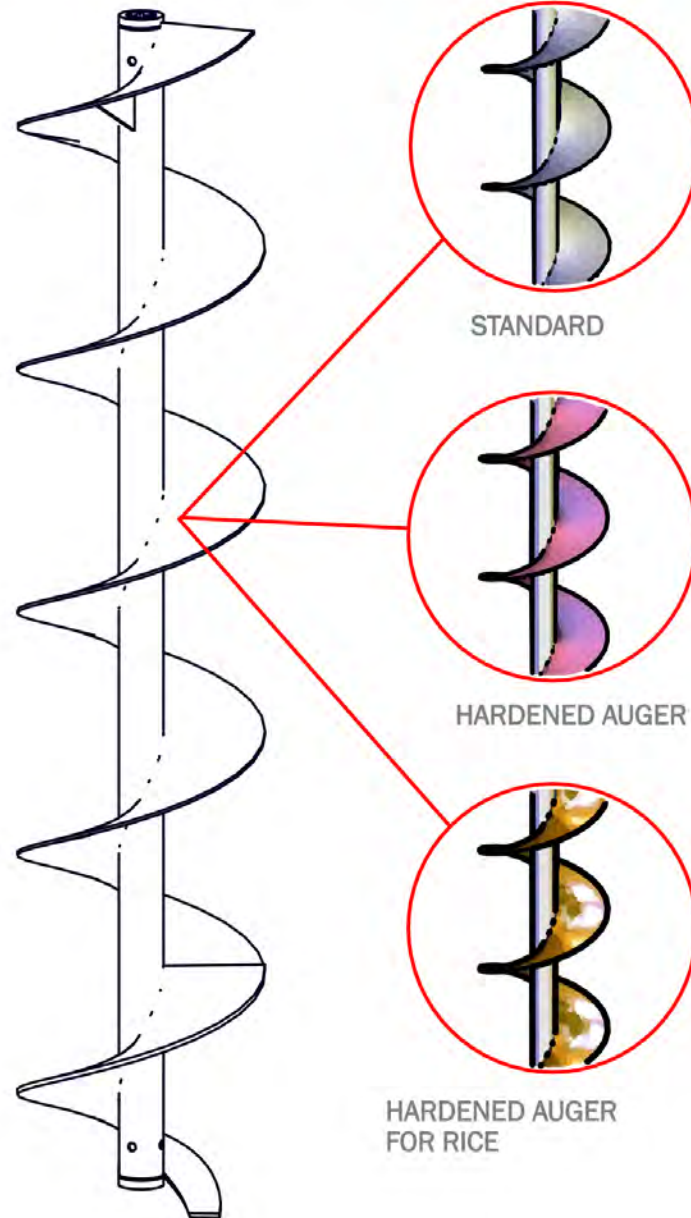


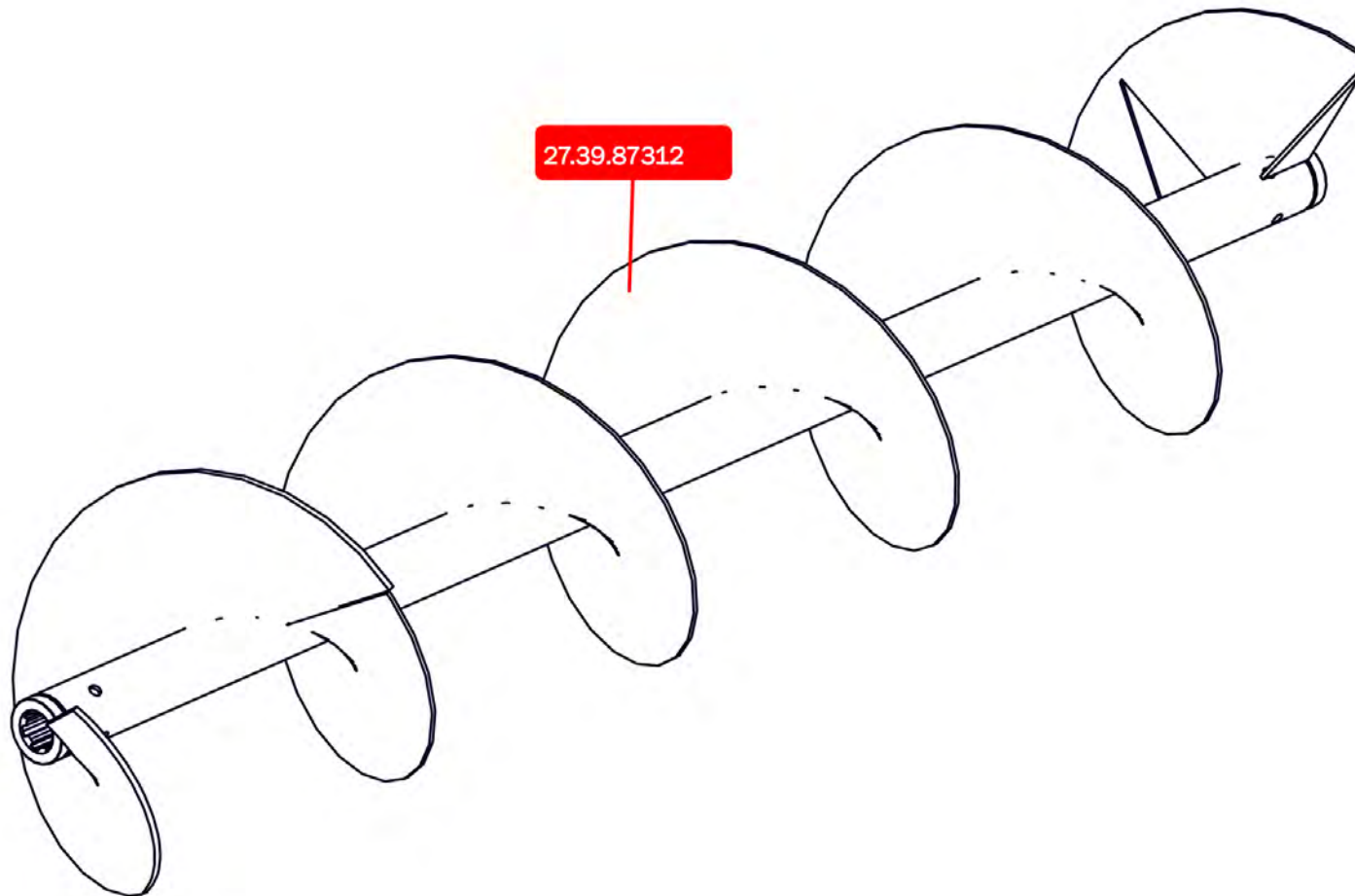
N°	PART	DESIGNATION	QTY
1	27.42.95312	- Hex. Head Screw	8
2	27.42.95313	- Grover Grover	8
3	27.42.95314	- Chamfered Chamfered	8
4	27.39.95325	-- Arm Assembly	2



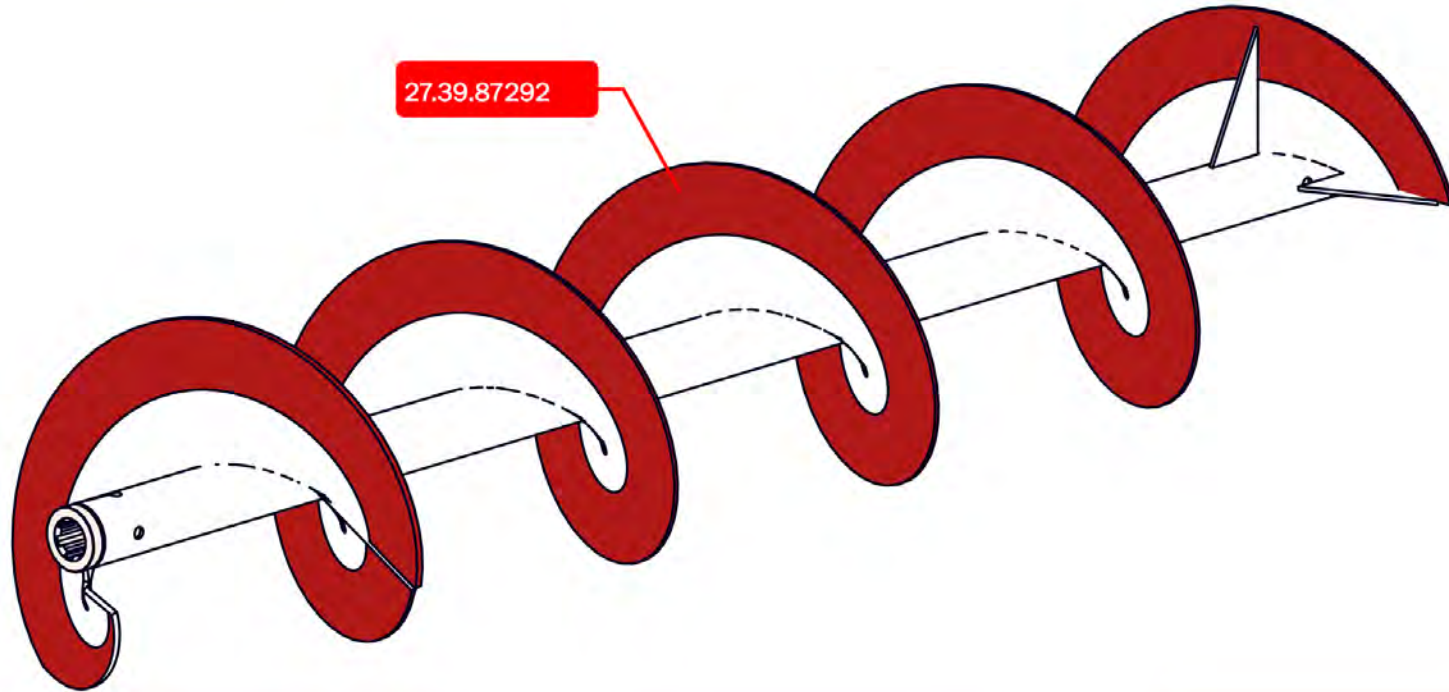
N°	PART	DESIGNATION	QTY
3	27.42.95314	-- Cap	1
6	98.002.079013	- Hex. Head Screw	12
10	98.310.100079	- Grower Grower	12







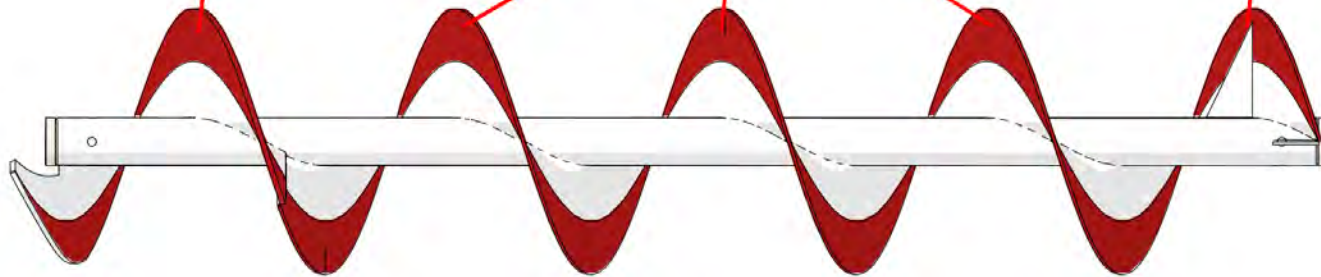
27.39.87312

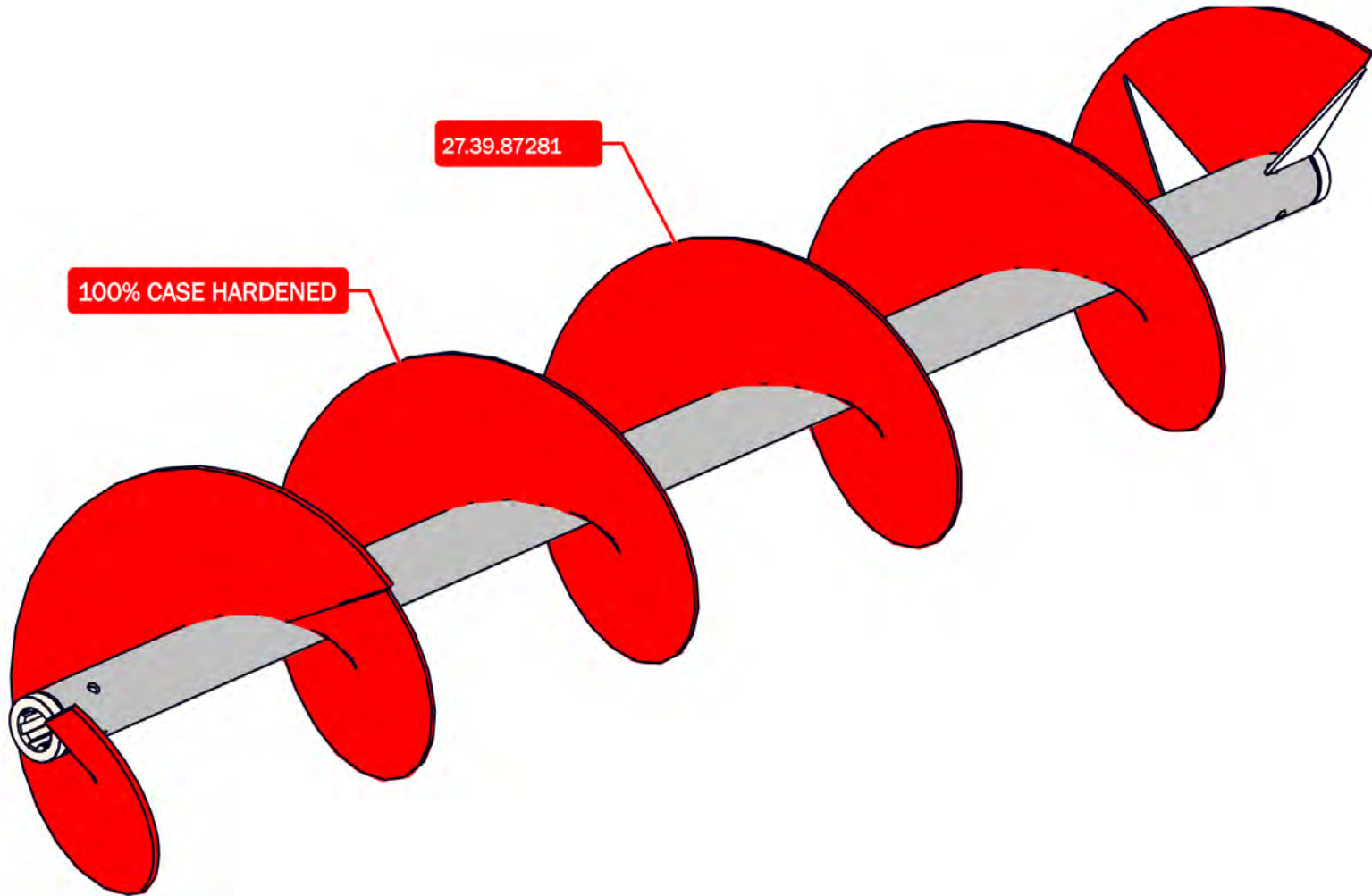


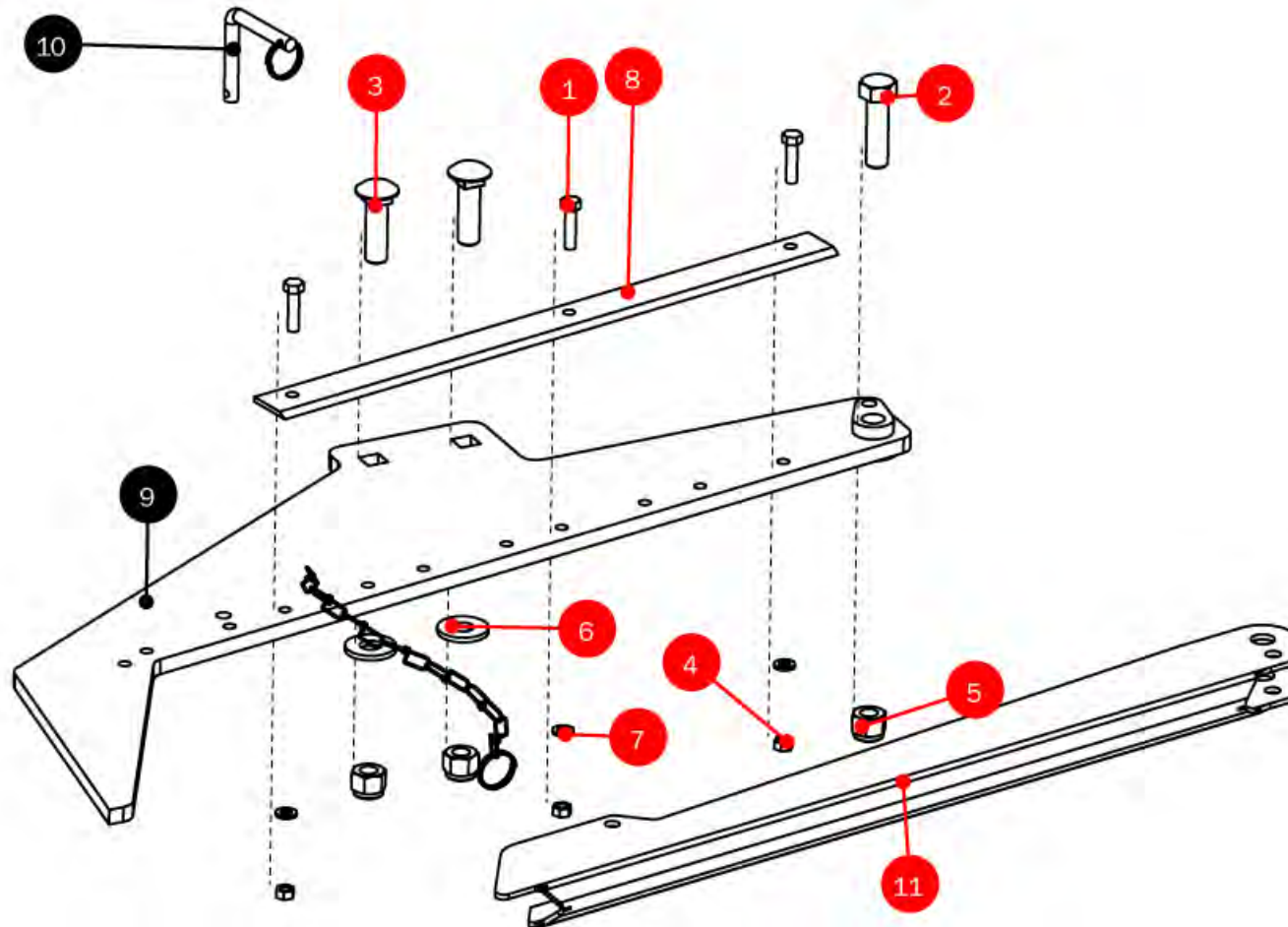
FIRST FLIGHTING - 130MM

MIDDLE FLIGHTINGS - 80MM

LAST FLIGHTING - 130MM

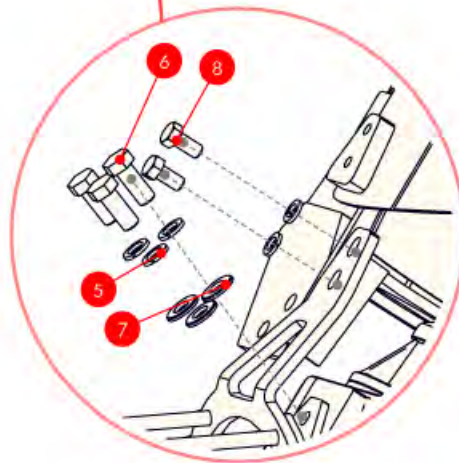
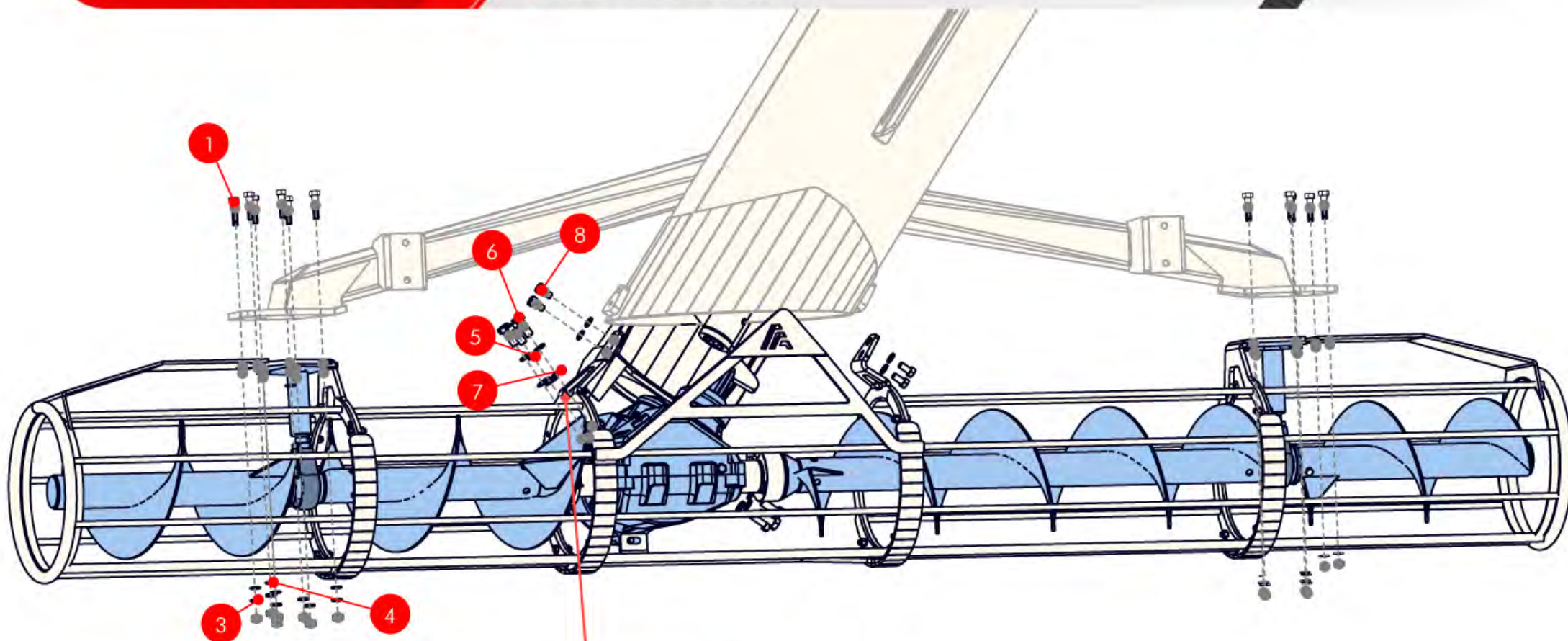




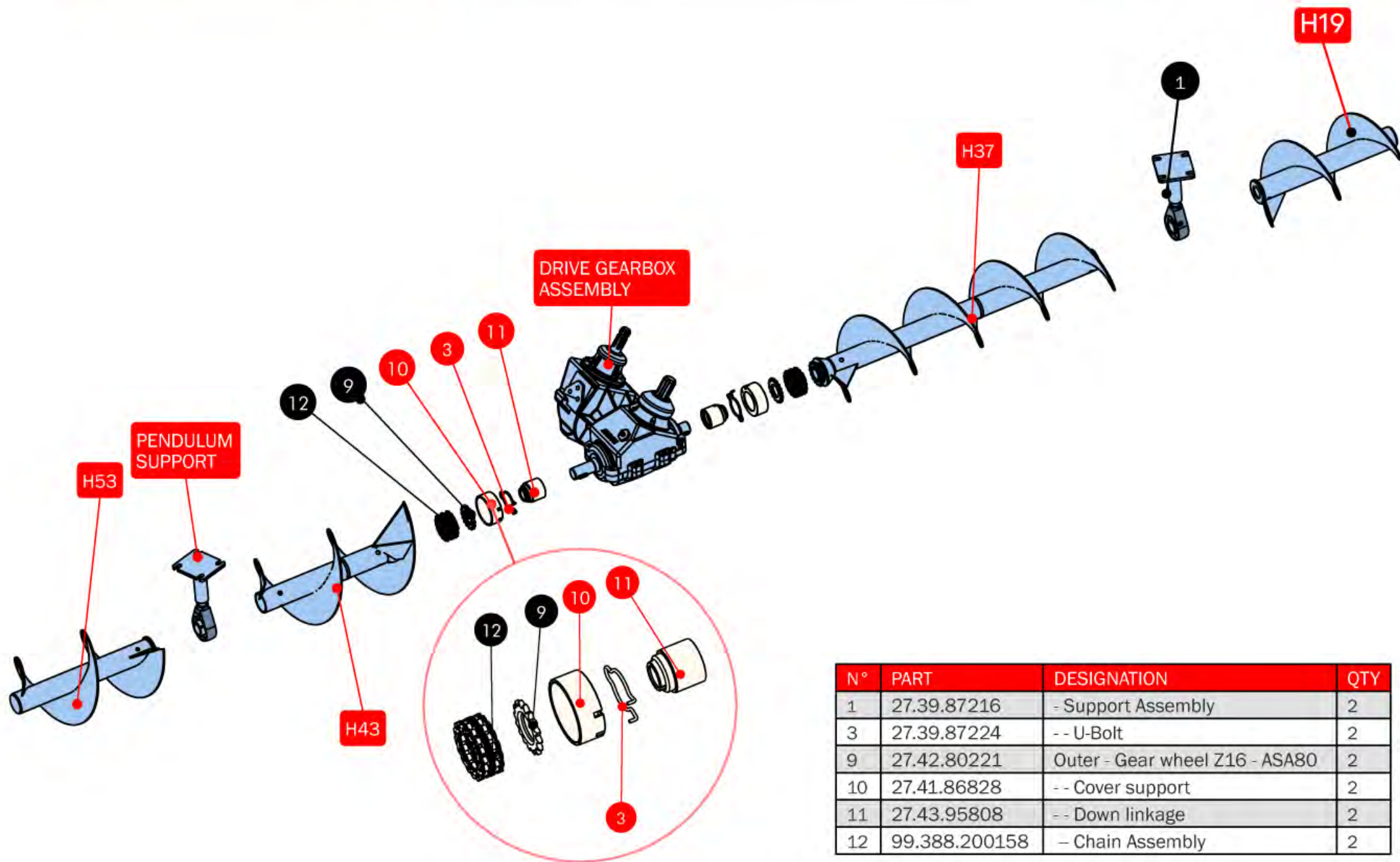


N°	PART	DESIGNATION	QTY
1	98.002.063025	- Hex. Head Screw 1/4" X 1"	3
2	98.002.127044	- Hex. Head Screw 1/2" X 1 3/4"	1
3	98.190.127044	- Round head square neck Bolt 1/2" X 1 3/4"	2
4	98.301.150063	- Hex Nut RW1/4"	3
5	98.304.151127	- Lock Nut G5 1/2" RW	3
6	98.309.101127	- Flat Washer Ø 1/2"	2

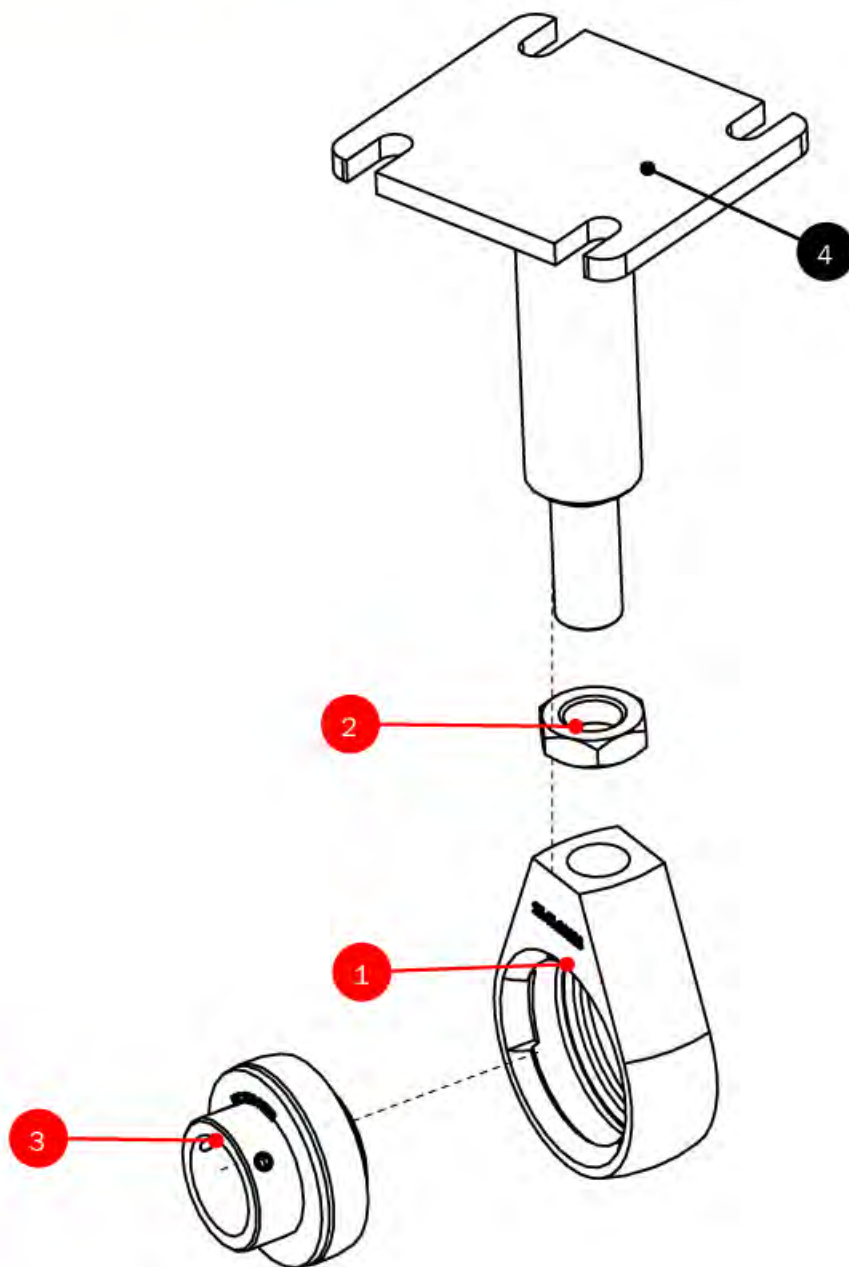
N°	PART	DESIGNATION	QTY
7	98.310.100063	- Grower Washer 1/4"	3
8	27.43.88701	Strap	1
9	27.39.87701	- Support Assembly	1
10	27.39.87710	- Assembly Latch	1
11	27.42.87704	- - Cover support	1



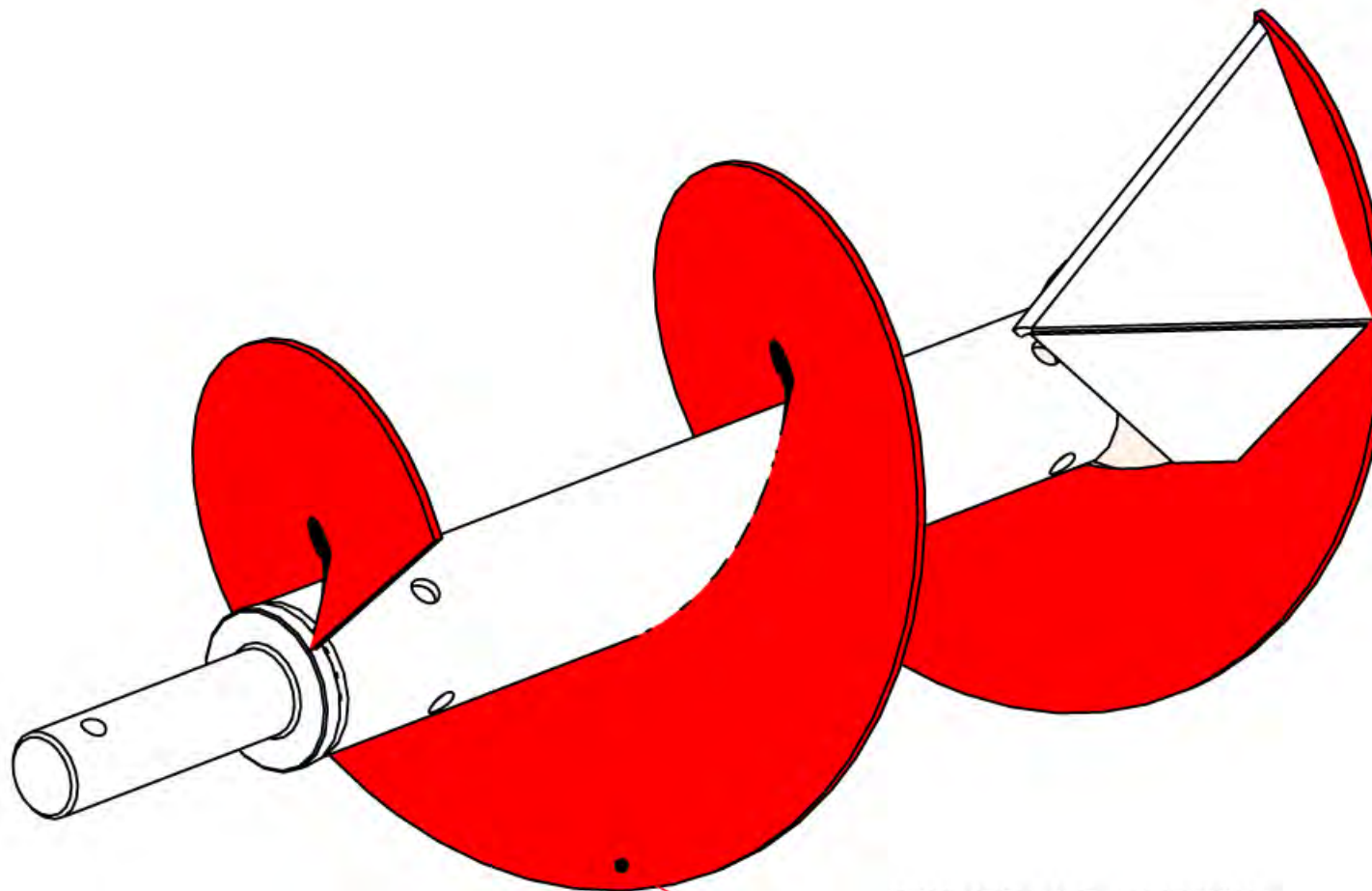
N°	PART	DESIGNATION	QTY
1	98.002.127051	- Hex. Head Screw 1/2" X 2"	11
3	98.310.100127	- Grower Washer 1/2"	16
4	98.311.101127	- Chamfered Washer 1/2"	12
5	98.310.102158	- Grower Washer 5/8" NEGRA	6
6	98.002.158038	- Hex. Head Screw 5/8" X 1 1/2"	6
7	98.311.101158	- Chamfered Washer 5/8"	6
8	98.002.127025	- Hex. Head Screw Ø1/2" X 1" RW G5	4



N°	PART	DESIGNATION	QTY
1	27.39.87216	- Support Assembly	2
3	27.39.87224	-- U-Bolt	2
9	27.42.80221	Outer - Gear wheel Z16 - ASA80	2
10	27.41.86828	-- Cover support	2
11	27.43.95808	-- Down linkage	2
12	99.388.200158	- Chain Assembly	2

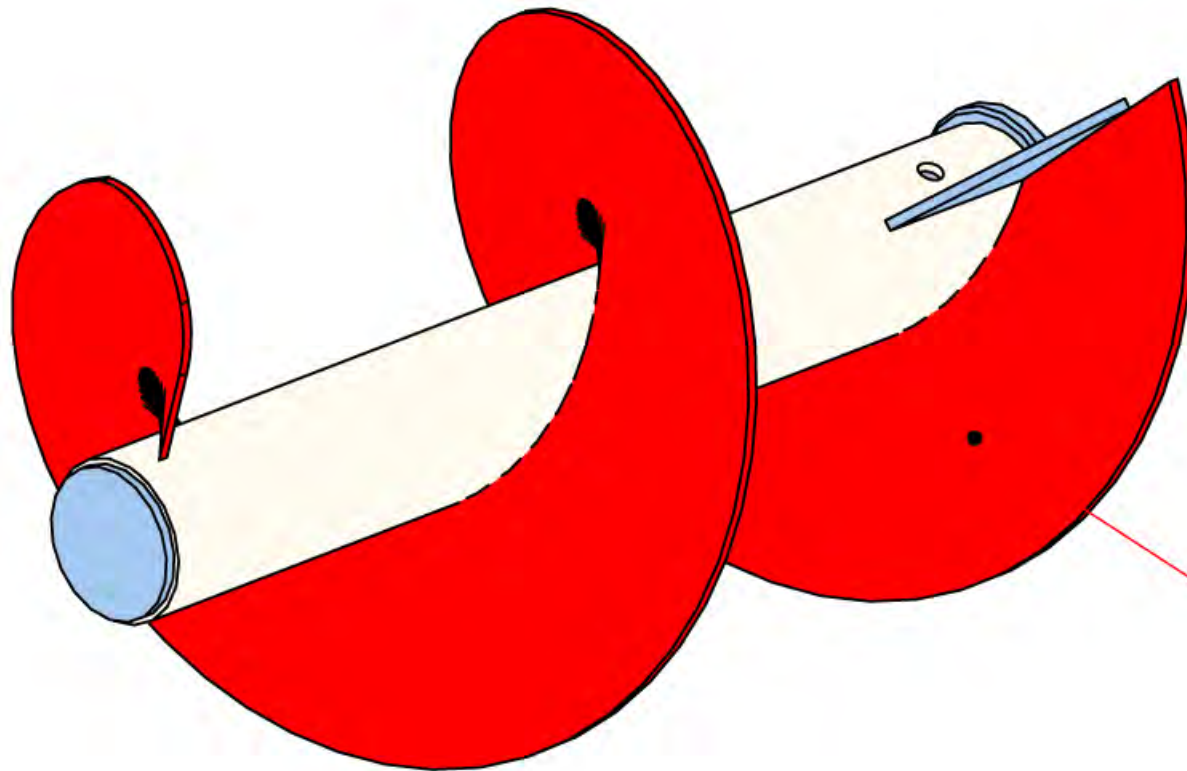


N°	PART	DESIGNATION	QTY
1	25.41.06322	- Cast Iron Support	1
2	98.300.300254	- Lock Nut Ø 1" X 14 h"	1
3	98.755.069540	- Self-centering Bearing	1
4	27.39.87217	- Support Assembly	1



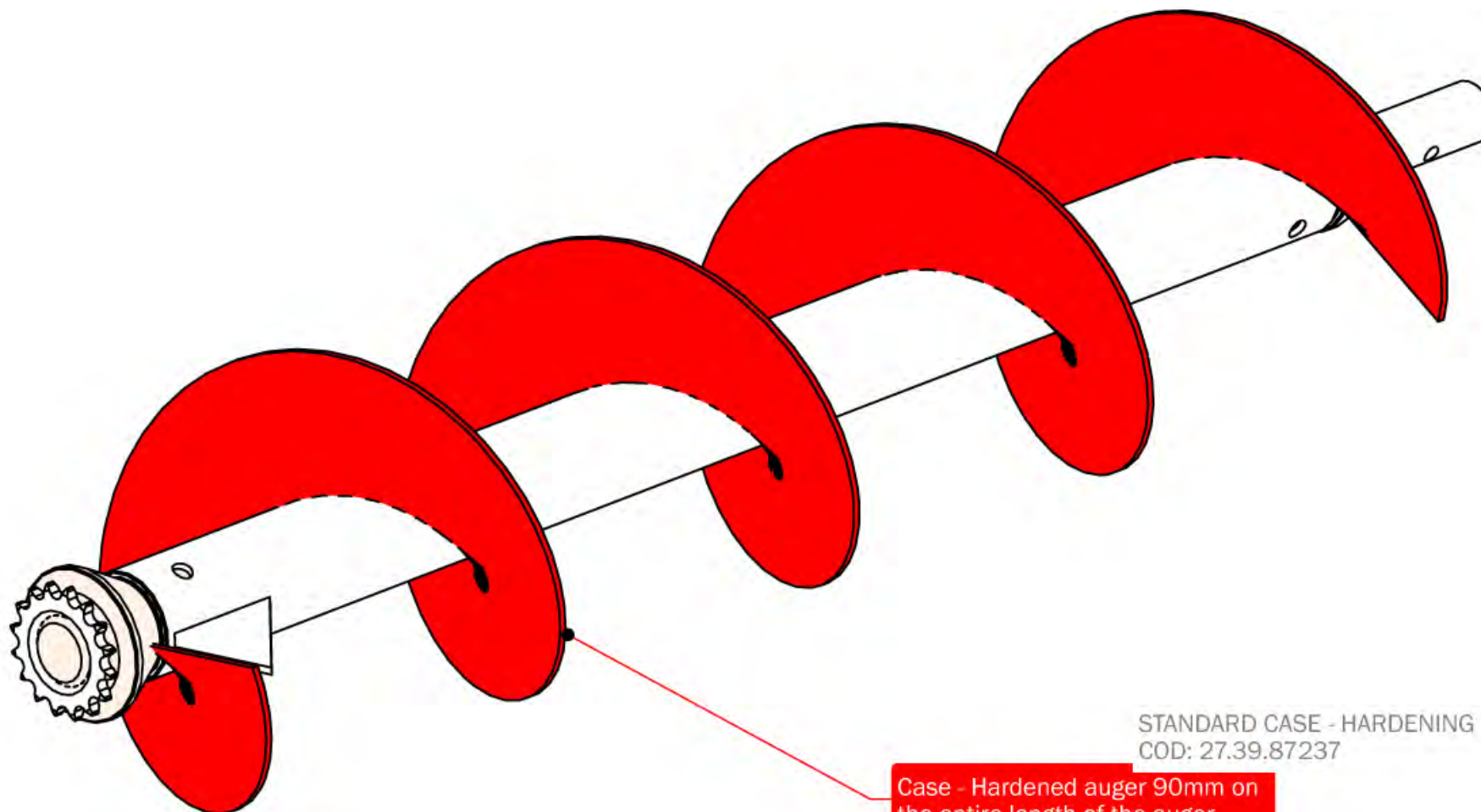
STANDARD CASE - HARDENING
COD: 27.39.87243

Case - Hardened auger 90mm on
the entire length of the auger



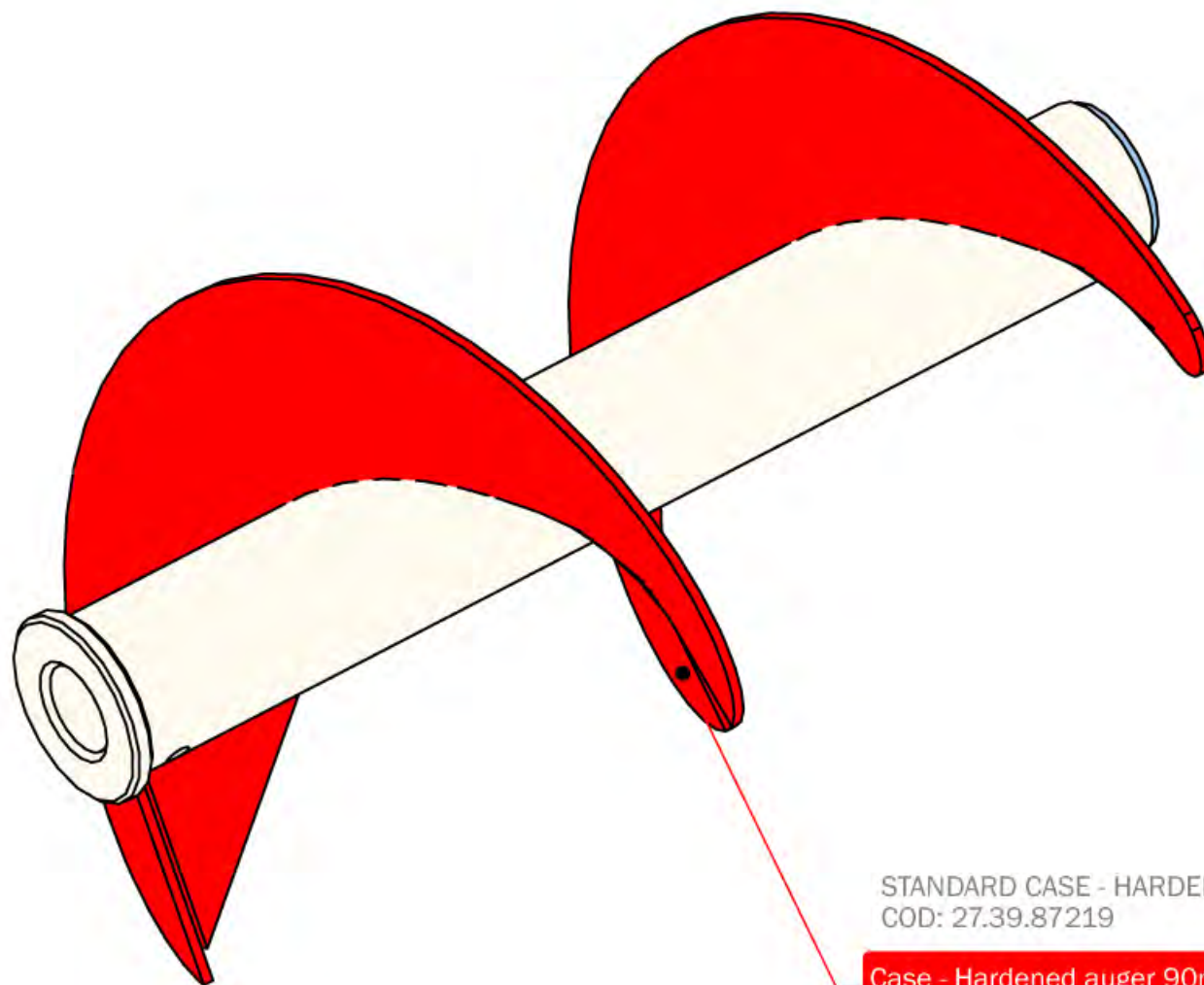
STANDARD CASE - HARDENING
COD: 27.39.87253

Case - Hardened auger 90mm on
the entire length of the auger



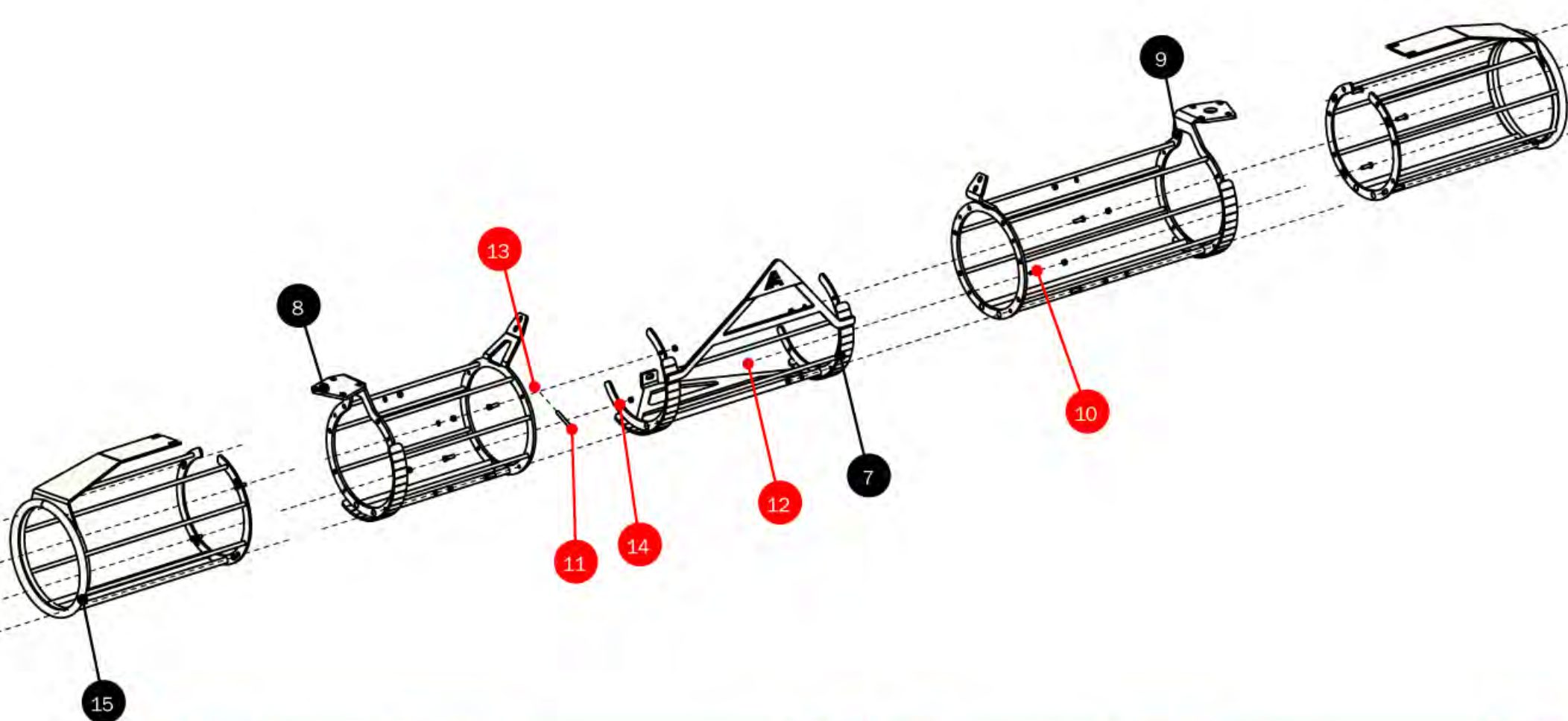
STANDARD CASE - HARDENING
COD: 27.39.87237

Case - Hardened auger 90mm on
the entire length of the auger



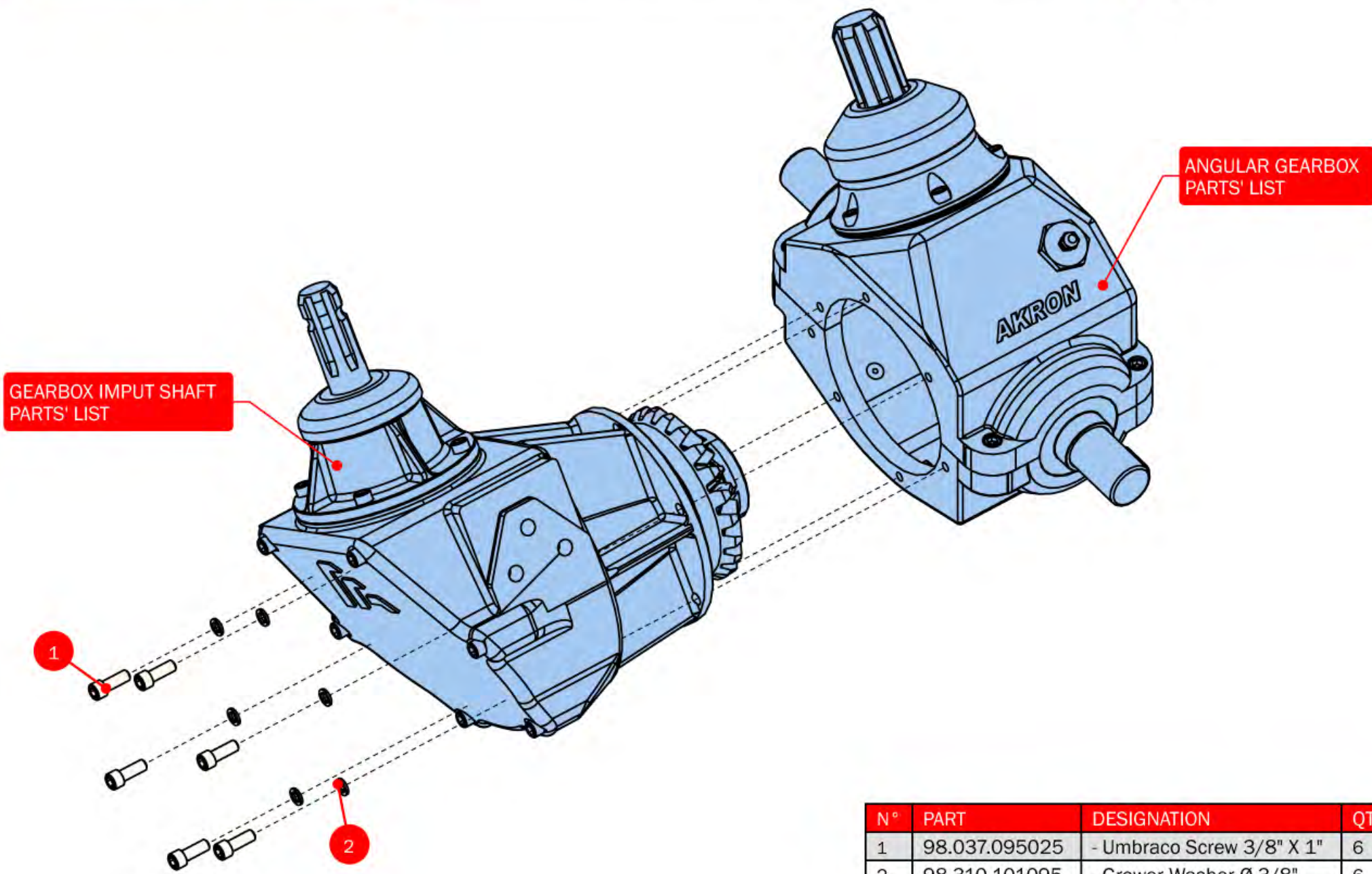
STANDARD CASE - HARDENING
COD: 27.39.87219

Case - Hardened auger 90mm on
the entire length of the auger



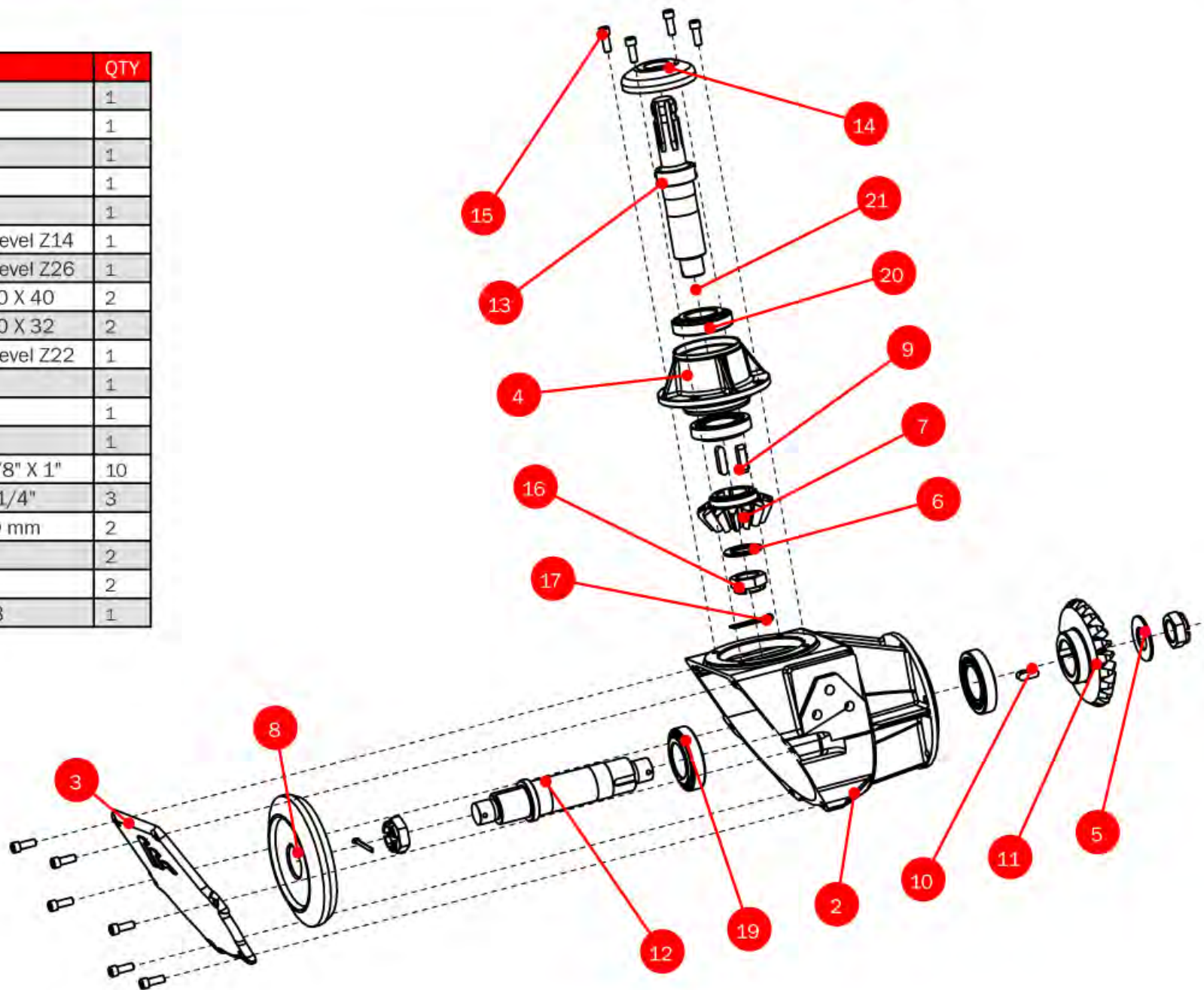
N°	PART	DESIGNATION	QTY
7	27.39.95230	-- Cover Assembly	1
8	27.39.95257	- Left Cover Assembly	1
9	27.39.95258	- Right Cover Assembly	1
10	98.002.095032	- Hex. Head Screw $\varnothing 3/8"$ X 1 1/4" G5	14
11	98.002.095089	- Hex. Head Screw 3/8" X 3 1/2"	1

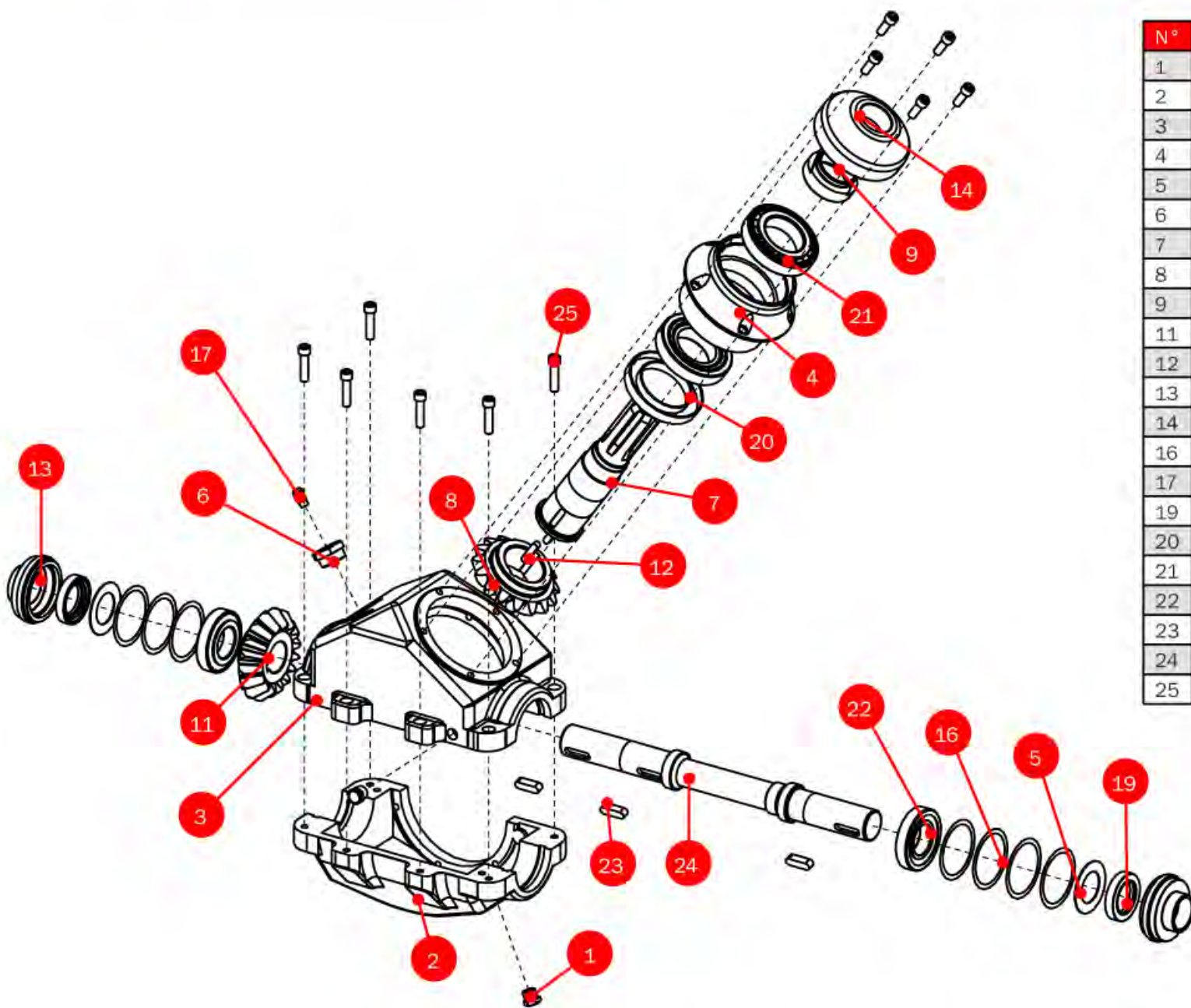
N°	PART	DESIGNATION	QTY
12	98.301.150095	- Hex Nut W3/8" x 16	14
13	98.304.151095	- Lock Nut RW 3/8"	1
14	98.310.101095	- Grower Washer $\varnothing 3/8"$	14
15	27.39.87956	- Protector Assembly	2



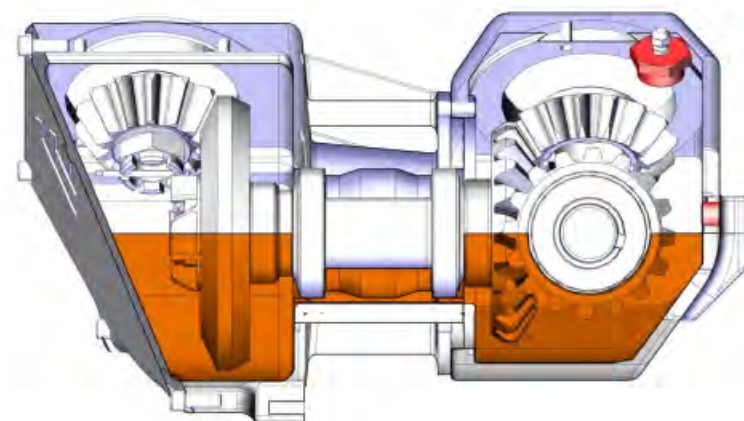
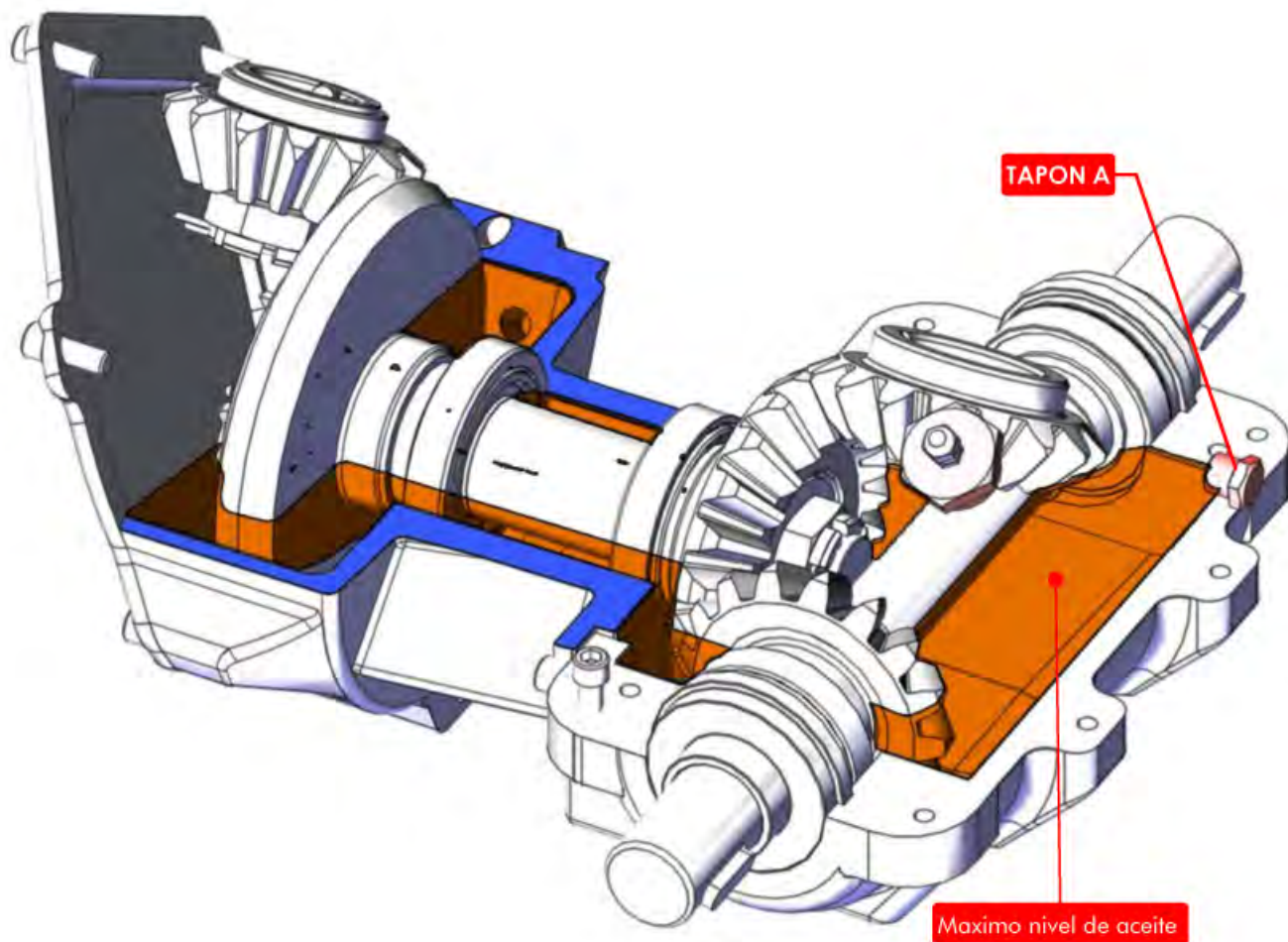
N°	PART	DESIGNATION	QTY
1	98.037.095025	- Umbraco Screw 3/8" X 1"	6
2	98.310.101095	- Grower Washer Ø 3/8"	6

N°	PART	DESIGNATION	QTY
2	20.41.95002	-- Casing	1
3	20.41.95003	-- Cap	1
4	20.41.95007	-- Cast Iron Trunk	1
5	20.42.89004	-- Washer Ø33	1
6	20.42.95008	-- Washer Ø33	1
7	20.43.13723	Outer Gear wheel Bevel Z14	1
8	20.43.13724	Outer Gear wheel Bevel Z26	1
9	20.43.13725	-- Cotter pin 10 X 10 X 40	2
10	20.43.89005	-- Cotter pin 10 X 10 X 32	2
11	20.43.89006	Outer Gear wheel Bevel Z22	1
12	20.43.95004	-- Shaft	1
13	20.43.95006	- Splined Shaft	1
14	20.43.95010	-- Labyrinth	1
15	98.037.095025	- Umbraco Screw 3/8" X 1"	10
16	98.303.311316	- Castle Nut RNF 1 1/4"	3
17	98.334.050060	-- Split pin Ø 5 X 60 mm	2
19	98.730.131500	-- Bearing 30210	2
20	98.730.330945	-- Bearing 30209	2
21	98.611.395010	- DBH Oil Seal 8828	1





N°	PART	DESIGNATION	QTY
1	13.43.11051	-- Cap 3/8"	2
2	20.41.87002	- Lower Casing	1
3	20.41.87003	- Upper Casing	1
4	20.41.87010	-- Cast Iron Trunk	1
5	20.42.11514	-- Washer	2
6	20.43.80024	-- Rubber Cover	1
7	20.43.87011	- Splined Shaft Z6 -1 3/4"	1
8	20.43.87012	Outer Gear wheel Bevel Z16	1
9	20.43.87013	-- Nut	1
11	20.43.87015	Outer Gear wheel Bevel Z16	1
12	20.43.87016	-- Cotter pin 8 X 8 X 34	2
13	20.43.87021	-- Cap	2
14	27.43.87332	-- Labyrinth 1 3/4	1
16	98.317.202660	-- Washer Ø66	7
17	98.370.100972	- Breathing Valve 1/8" BSP	1
19	98.611.273941	- DBH Oil Seal 8707	2
20	98.611.377670	- DBH Oil Seal 6727	1
21	98.730.330155	-- Bearing 30211	2
22	98.730.330840	-- Bearing 30208	2
23	27.43.85569	-- Cotter pin 10x10X36	3
24	20.43.95014	-- Shaft	1
25	98.037.0950	- Umbraco Screw	11

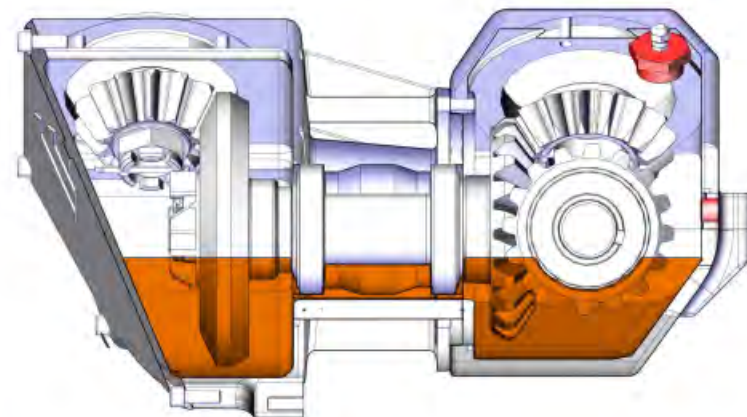
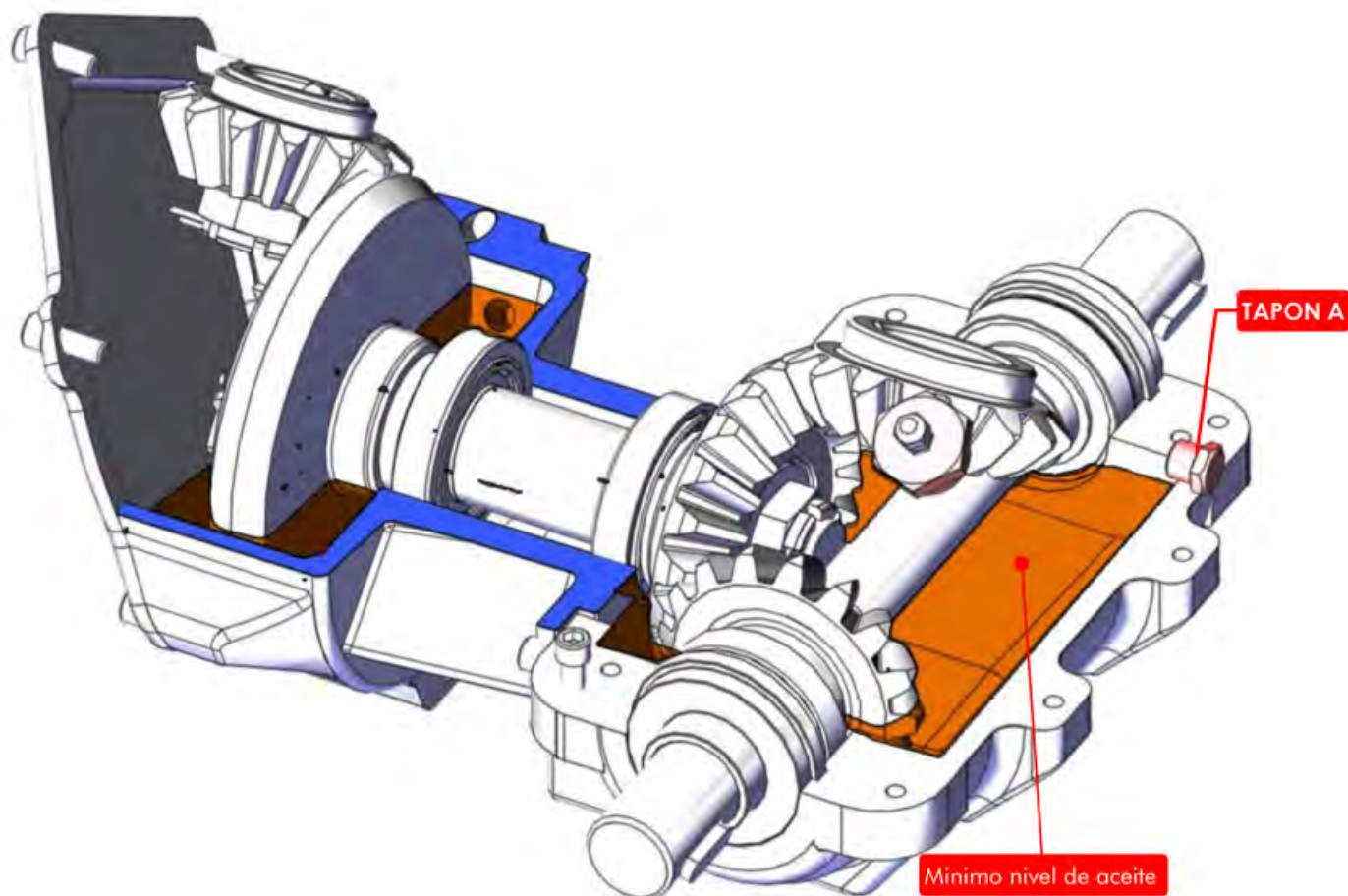


ANGULAR GEARBOX AND GEARBOX IMPUT SHAFT OIL SPECIFICATION - 20.29.95000

OIL: MULTIGRADE MINERAL OIL
 MOBILUBE HD 80W90
 CAPACITY: 3.5 LTS

HOW TO CHECK OIL LEVEL:

- 1) PLACE THE UNLOADER IN HORIZONTAL POSITION.
- 2) REMOVE PLUG A.
- 3) CHECK OIL LEVEL AT THE BOTTOM OF THE PLUG HOLE.
- 4) OIL LEVEL SHOULD BE WITHIN THE VALUE OF THE HIGHLIGHTED AREA.
- 5) IF OIL LEVEL IS BELOW THE MARK, TOP UP UNTIL OIL BEGINS TO FLOW OUT OF THE HOLE OF PLUG A.
- 6) PERFORM THE FIRST OIL CHANGE AFTER 50 HOURS. THEN, OIL SHOULD BE CHANGED EITHER EVERY 300 HOURS OR 1 YEAR.



ANGULAR GEARBOX AND GEARBOX INPUT SHAFT OIL SPECIFICATION - 20.29.95000

OIL: MULTIGRADE MINERAL OIL
MOBILUBE HD 80W90
CAPACITY: 3.5 LTS

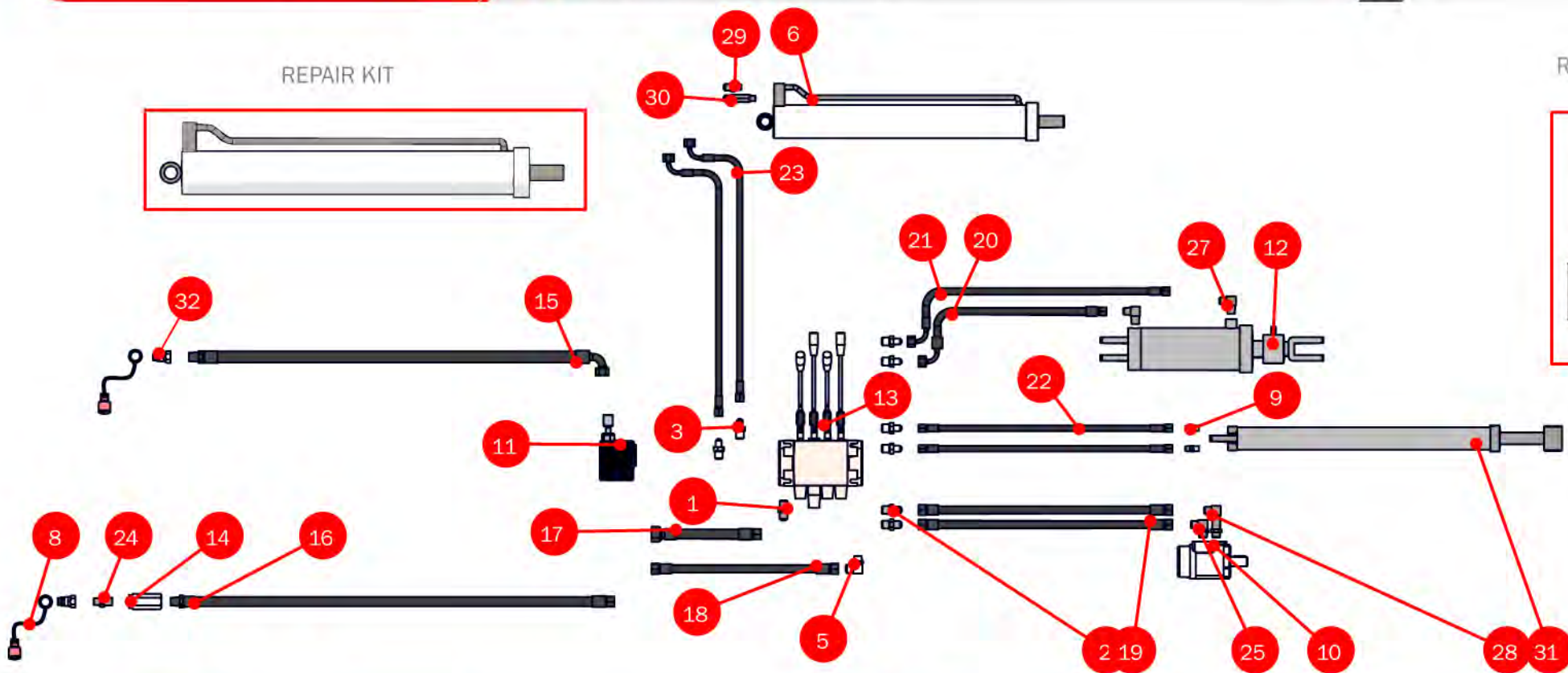
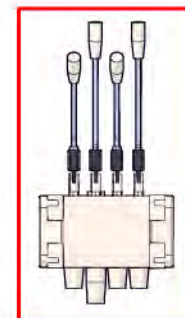
HOW TO CHECK OIL LEVEL:

- 1) PLACE THE UNLOADER IN HORIZONTAL POSITION.
- 2) REMOVE PLUG A.
- 3) CHECK OIL LEVEL AT THE BOTTOM OF THE PLUG HOLE.
- 4) OIL LEVEL SHOULD BE WITHIN THE VALUE OF THE HIGHLIGHTED AREA.
- 5) IF OIL LEVEL IS BELOW THE MARK, TOP UP UNTIL OIL BEGINS TO FLOW OUT OF THE HOLE OF PLUG A.
- 6) PERFORM THE FIRST OIL CHANGE AFTER 50 HOURS. THEN, OIL SHOULD BE CHANGED EITHER EVERY 300 HOURS OR 1 YEAR.

REPAIR KIT

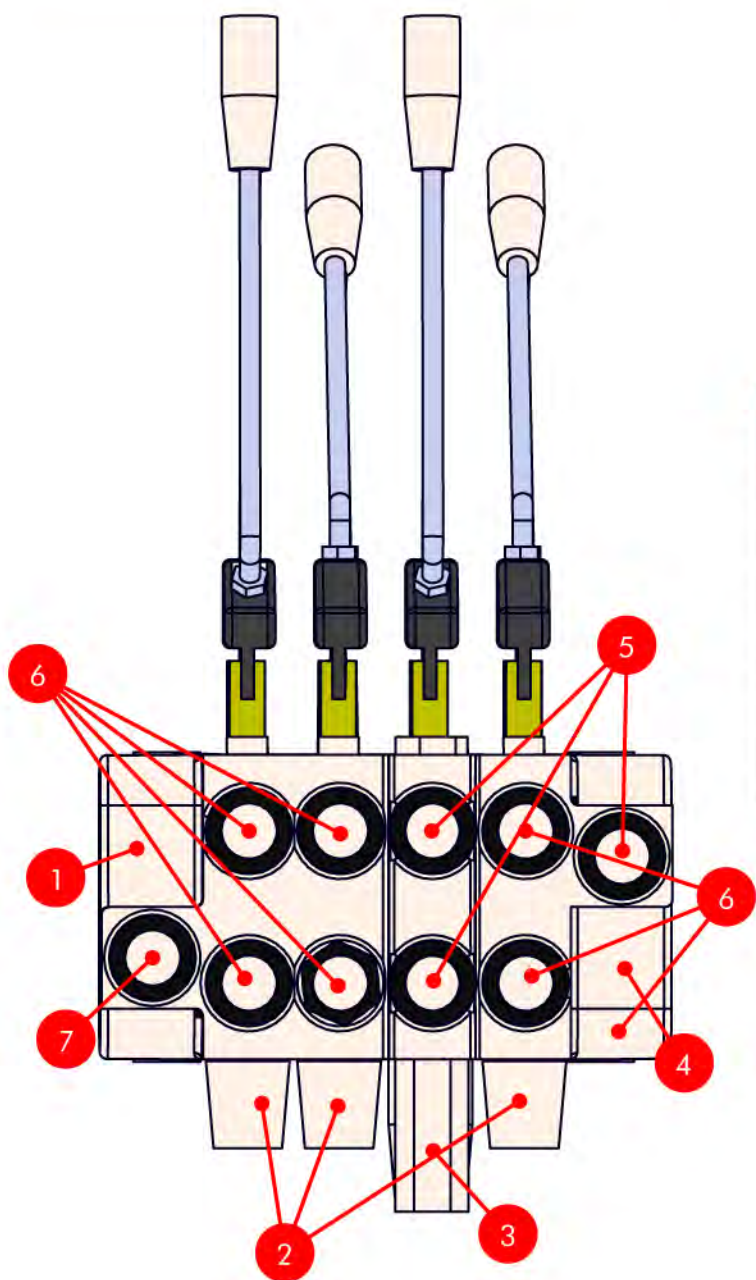


REPAIR KIT



N°	PIEZA	DESIGNATION	CANT.
1	98.378.013937	- M Adapter 7/8" jic-M 7/8" o'ring	1
2	98.378.013938	- M Adapter 3/4" jic-M 7/8" o'ring	2
3	98.378.013950	- M Adapter 9/16" jic-M 7/8" o'ring	6
5	98.378.020116	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
6	98.378.025306	-- Hydraulic Cylinder 3"x600MM	1
8	98.378.042212	-- Plug 1/2"	2
9	98.378.060135	- M Adapter 1/4" NPT X 9/16 Jic	2
10	98.378.080568	-- Hydraulic Motor 80CC	1
11	98.378.085558	- Flow Control Valve	1
12	98.378.085774	Hydraulic Cylinder 4"x200mm	1
13	98.378.087752	- Directional control valve Valve	1
14	98.378.087753	- Unidireccional Valve 3/4" NPT	1
15	98.378.087757	--Hose 3/4"R17 l:7520mm	1
16	98.378.087758	Hose 3/4" R17 l:7130mm HG1"1/16 jic-MF3/4" NPT	1
17	98.378.087759	-- Hose 3/4" R17 l:535mm HG1"1/16 jic-HG 7/8" jic	1

N°	PIEZA	DESIGNATION	CANT.
18	98.378.087760	-- Hose 1/2" R17 l:595mm HG 7/8" jic x idem	1
19	98.378.087761	-- Hose 1/2" R17 l:3740mm HG 7/8" jic x idem	2
20	98.378.087762	-- Hose 3/8"R17 l:1070mm HG3/4"jic	1
21	98.378.087763	-- Hose 3/8" R17 l:1380mm HG3/4"jic	1
22	98.378.087764	-- Hose 1/4" R17 l:1325mm HG 9/16" jic x idem	2
23	98.378.087765	-- Hose 1/4"R17 l:3750mm HG9/16"jic	2
24	98.378.087766	- M Adapter M 1/2"NPT-3/4"NPT	1
25	98.378.087767	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
27	98.378.087770	-- Elbow M 3/4" JIC-M 1/2" NPT	2
28	98.378.087771	-- Elbow	1
29	98.378.087772	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm	1
30	98.378.087773	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm LONG	1
31	98.378.087923	-- Hydraulic Cylinder Ø 2 3/8" - 500 mm	1
32	98.768.087768	- M Coupling Tip	1

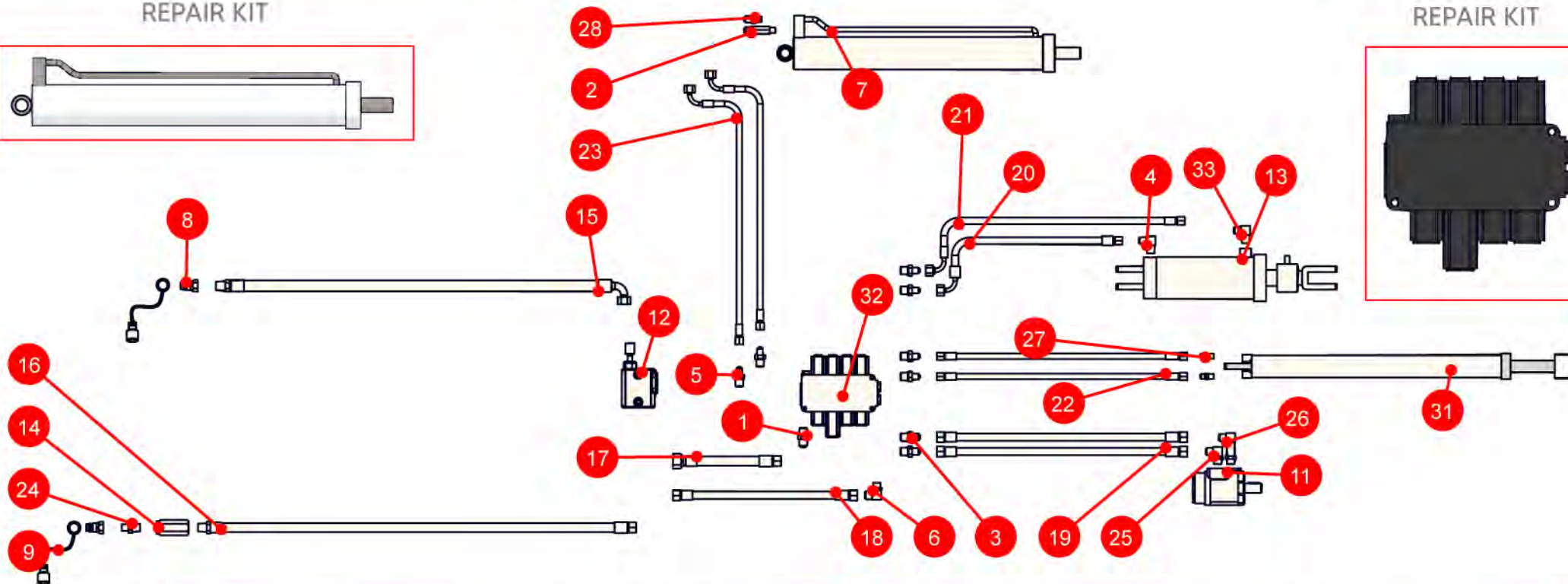
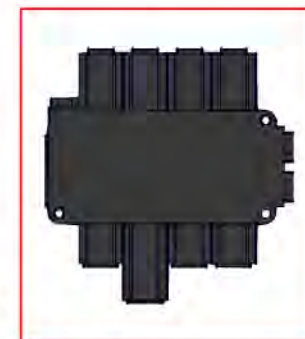


SAUER DANFOSS / LIVENZA			
N°	PART	DESCRIPTION	QTY
	98.378.087752	Directional Control Valve 4 Bodies -LS -	1
1	98.378.087850	Inlet Cover E60 A B2	1
2	98.378.087751	Central Body B601 A E2A2	1
3	98.378.087752	Central Body B601 A E2C2BA	1
4	98.378.087752	Outlet Cover S60A2	1
5	98.378.087752	98.378.013937 Adapter M7/8" - 14h UNF jic M7/8" - 14UNF Or	3
6	Complete Kit Code	98.378.013950 Adapter M9/16" - 14h UNF jic M7/8" - 14UNF Or	6
7		98.378.020116 Elbow 90 ° M7/8" - 14h UNF jic M7/8" - 14h UNF Or	1
8	98.378.087524	Conver seals DANFOSS	1
9	98.378.087855	Conver seals DANFOSS	4

REPAIR KIT

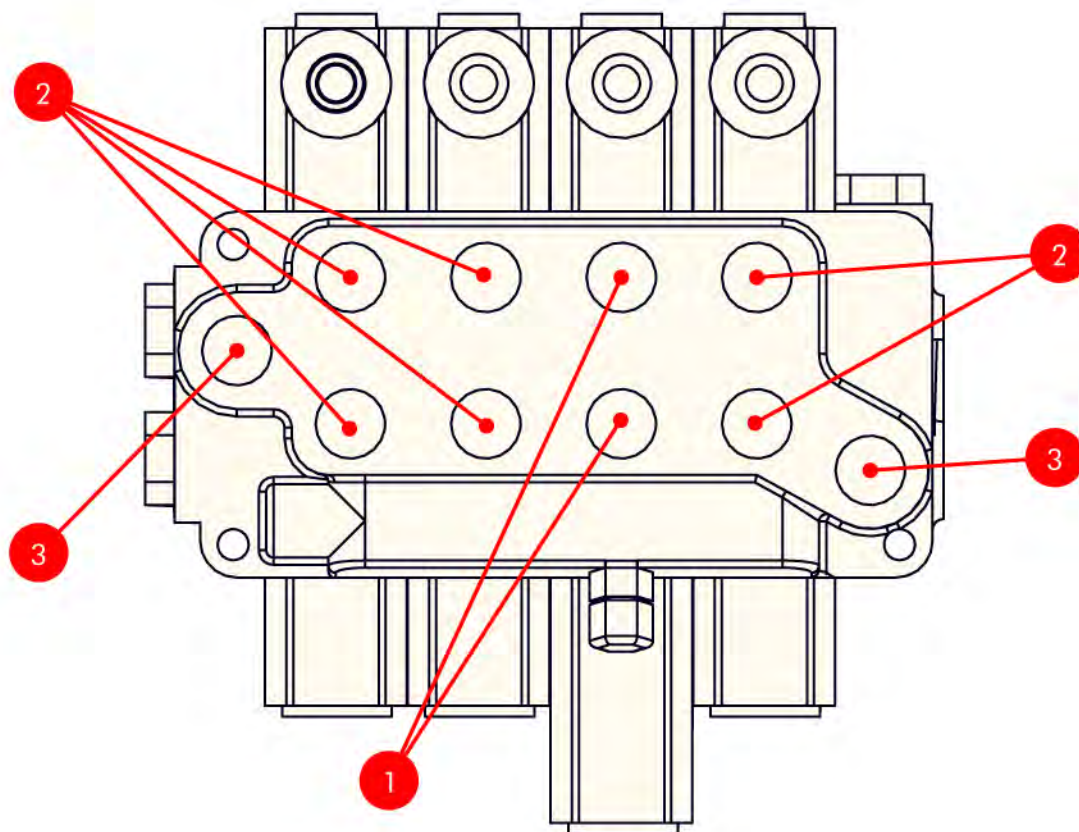


REPAIR KIT

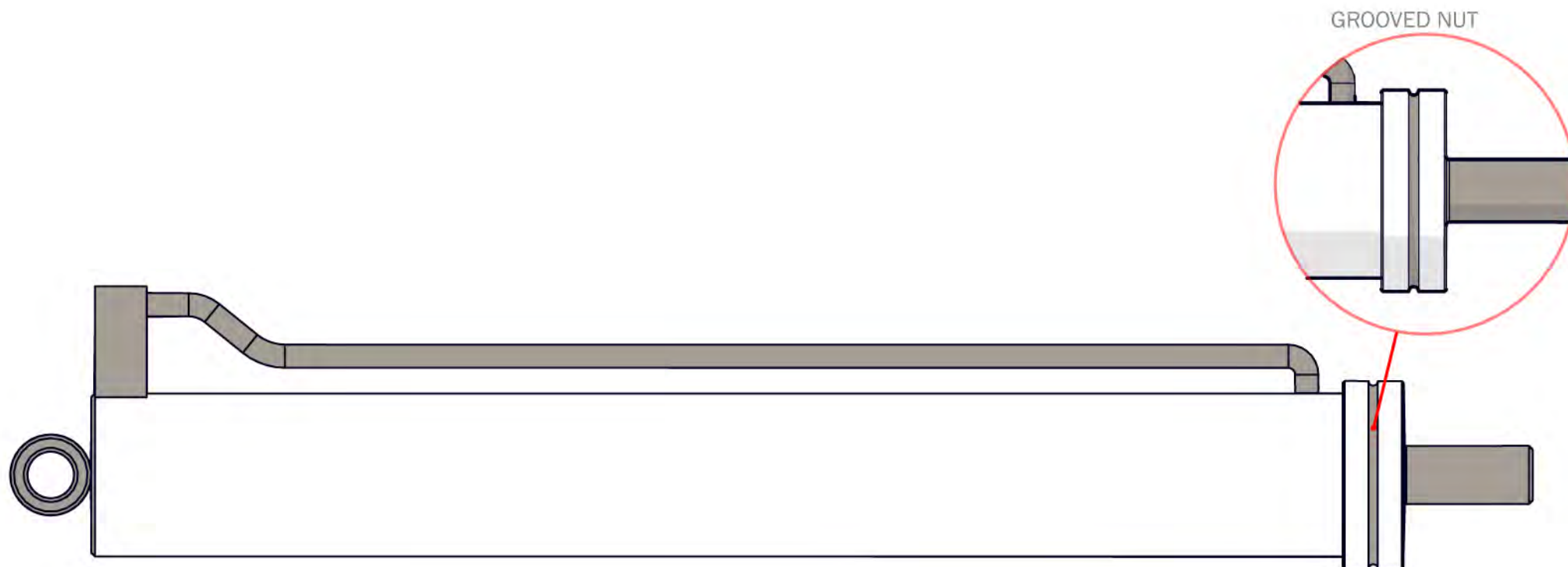


N°	PIEZA	DESIGNATION	CANT.
1	98.378.013935	-- Adapter M7/8"-14h UNF Jic/M3/4"-16h UNF Or	1
2	98.378.013937	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm LONG	1
3	98.378.013938	- M Adapter 3/4" jic-M 7/8" o'ring	2
4	98.378.013971	-- Elbow M 3/4" JIC-M 1/2" NPT	1
5	98.378.020104	-- Adapter M 9/16"-18h UNF Jic/m 3/4"-16h UNF Or	6
6	98.378.020121	-- Elbow 90° M7/8"jic - M3/4" NF o'ring	1
7	98.378.025306	-- Hydraulic Cylinder 3"X600MM	1
8	98.378.032216	- M Coupling Tip	2
9	98.378.042212	-- Plug 1/2"	2
11	98.378.080568	-- Hydraulic Motor 80CC	1
12	98.378.085558	- Flow Control Valve	1
13	98.378.085774	-- Hydraulic Cylinder 4"x200mm	1
14	98.378.087753	- Unidirectional Valve 3/4" NPT	1
15	98.378.087757	-- Hose 3/4"R17 l:7520mm	1
16	98.378.087758	-- Hose 3/4" R17 l:7130mm HG1"1/16 jic-MF3/4" NPT	1
17	98.378.087759	-- Hose 3/4" R17 l:535mm HG1"1/16 jic-HG 7/8" jic	1

N°	PIEZA	DESIGNATION	CANT.
18	98.378.087760	- Hose 1/2" R17 l:595mm HG 7/8" jic x idem	1
19	98.378.087761	- Hose 1/2" R17 l:3740mm HG 7/8" jic x idem	2
20	98.378.087762	-- Hose 3/8"R17 l:1070mm HG3/4"jic	1
21	98.378.087763	-- Hose 3/8" R17 l:1380mm HG3/4"jic	1
22	98.378.087764	-- Hose 1/4" R17 l:1325mm HG 9/16" jic x idem	2
23	98.378.087765	-- Hose 1/4"R17 l:3750mm HG9/16"jic	2
24	98.378.087766	- M Adapter M 1/2"NPT-3/4"NPT	1
25	98.378.087767	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
26	98.378.087769	-- Elbow	1
27	98.378.087770	- M Adapter 1/4" NPT X 9/16 Jic	2
28	98.378.087771	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm	1
31	98.378.087923	-- Hydraulic Cylinder Ø 2 3/8" - 500 mm	1
32	98.378.089752	Valve Brevini DCV-40/4	1
33	98.768.087768	-- Elbow M 3/4" JIC-M 1/2" NPT	1



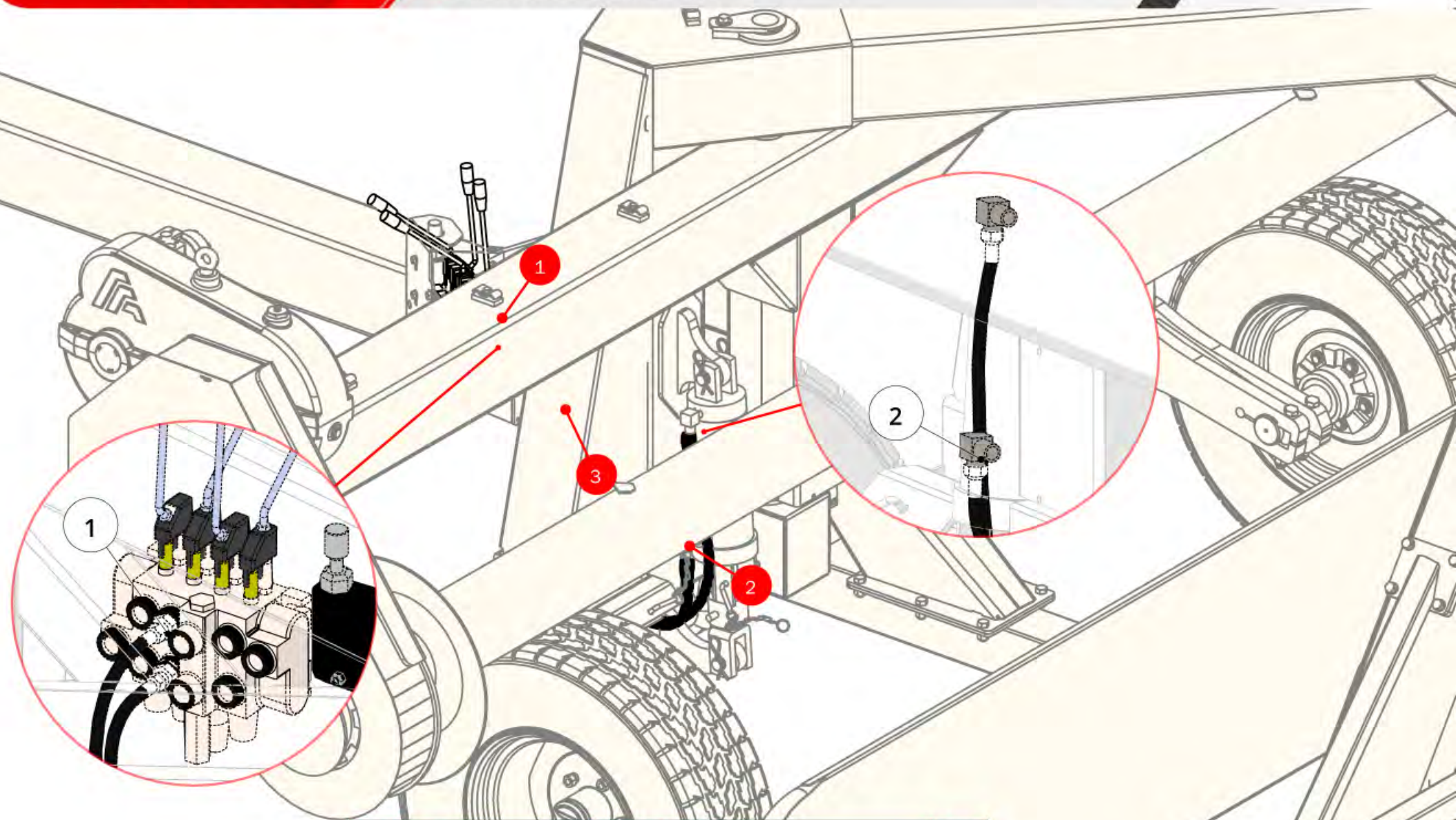
BREVINI			
ITEM	CÓDIGO	DESCRIPCIÓN	CANT.
	98.378.089.752	Válvula Brevini DCV-40/4	1
1	98.378.087755 Código de Kit Completo	98.378.013.935 Adaptador M7/8"-14h UNF Jic/M3/4"-16h UNF Or	2
2		98.378.020.104 Adaptador M 9/16"-18h UNF Jic/m 3/4"-16h UNF Or	6
3		98.378.020.121 Codo 90° M 7/8" Jic - M3/4" Or	2



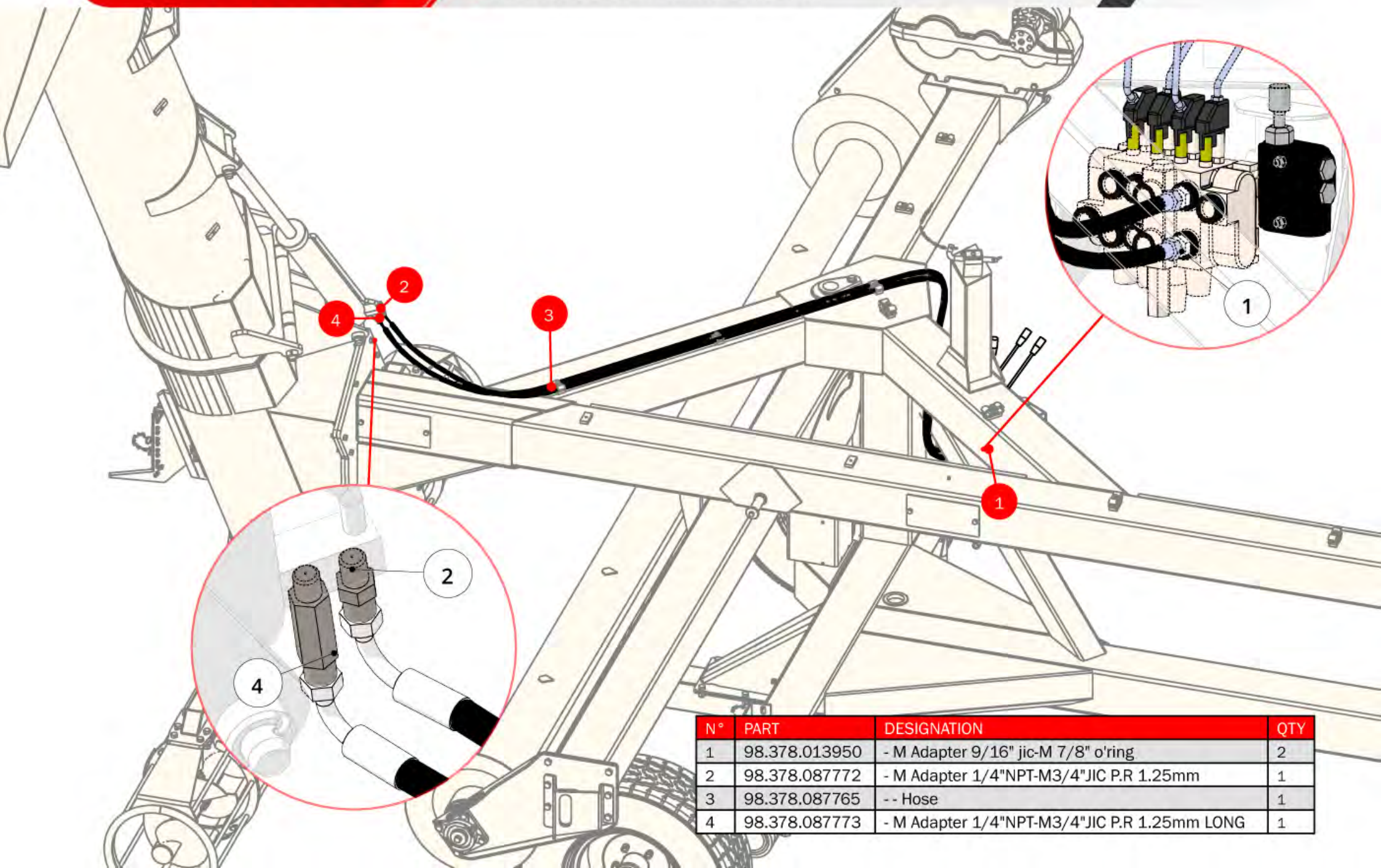
MORO	
CÓDIGO	DESCRIPCIÓN
98.378.100.508	Juego reparación Cilindro Hidráulico ø2"
98.378.100.635	Juego reparación Cilindro Hidráulico ø2-1/2"
98.378.100.762	Juego reparación Cilindro Hidráulico ø3"
98.378.101.016	Juego reparación Cilindro Hidráulico ø4"



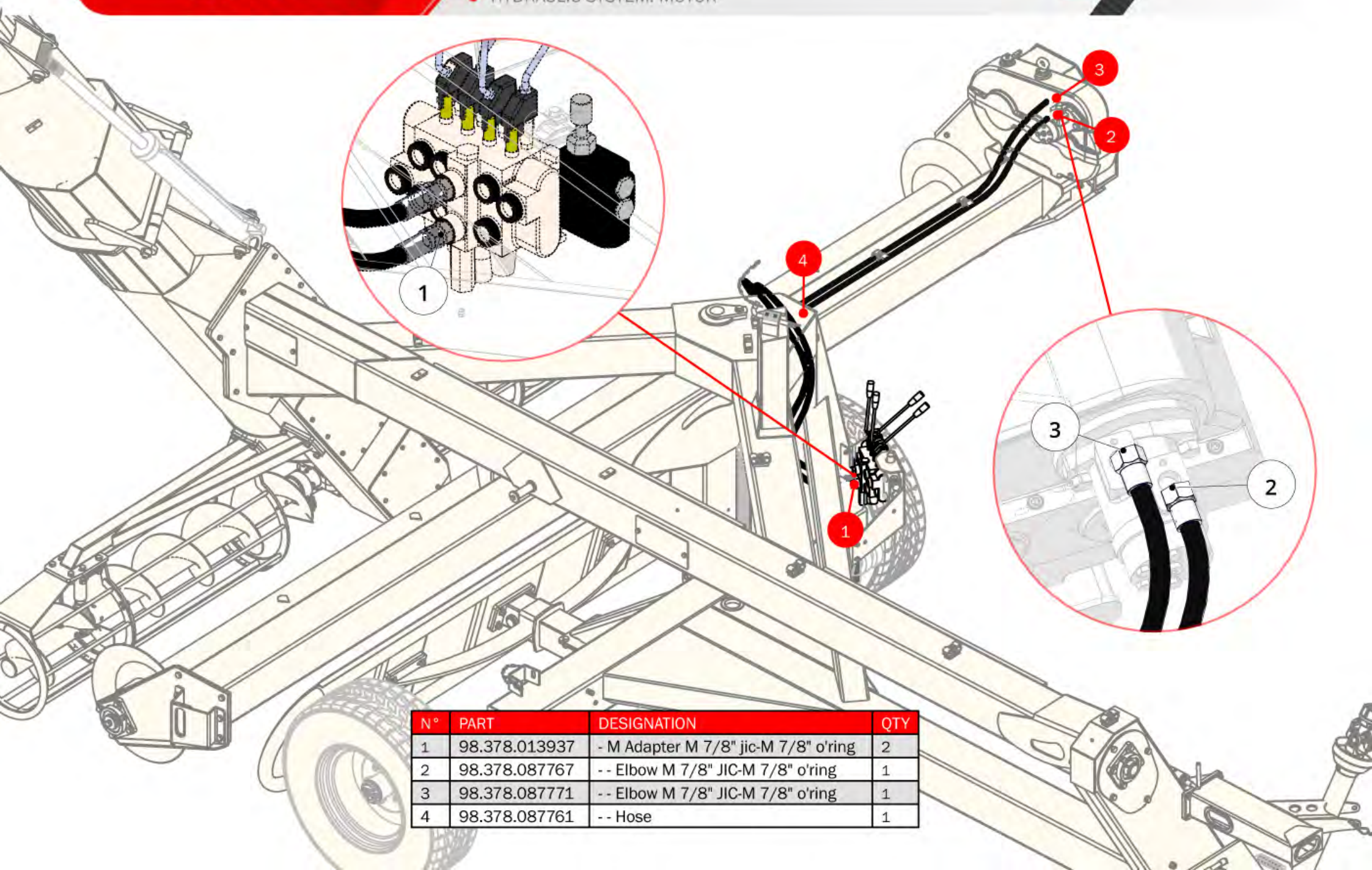
AKRON	DALAGI	
PART	PART	
98.378.087923	98.378.200508	Hydraulic Cylinder 2" - REPAIR KIT
	98.378.200635	Hydraulic Cylinder 2 ½" - REPAIR KIT
98.378.025306	98.378.200762	Hydraulic Cylinder 3" - REPAIR KIT
98.378.085774	98.378.201016	Hydraulic Cylinder 4" - REPAIR KIT



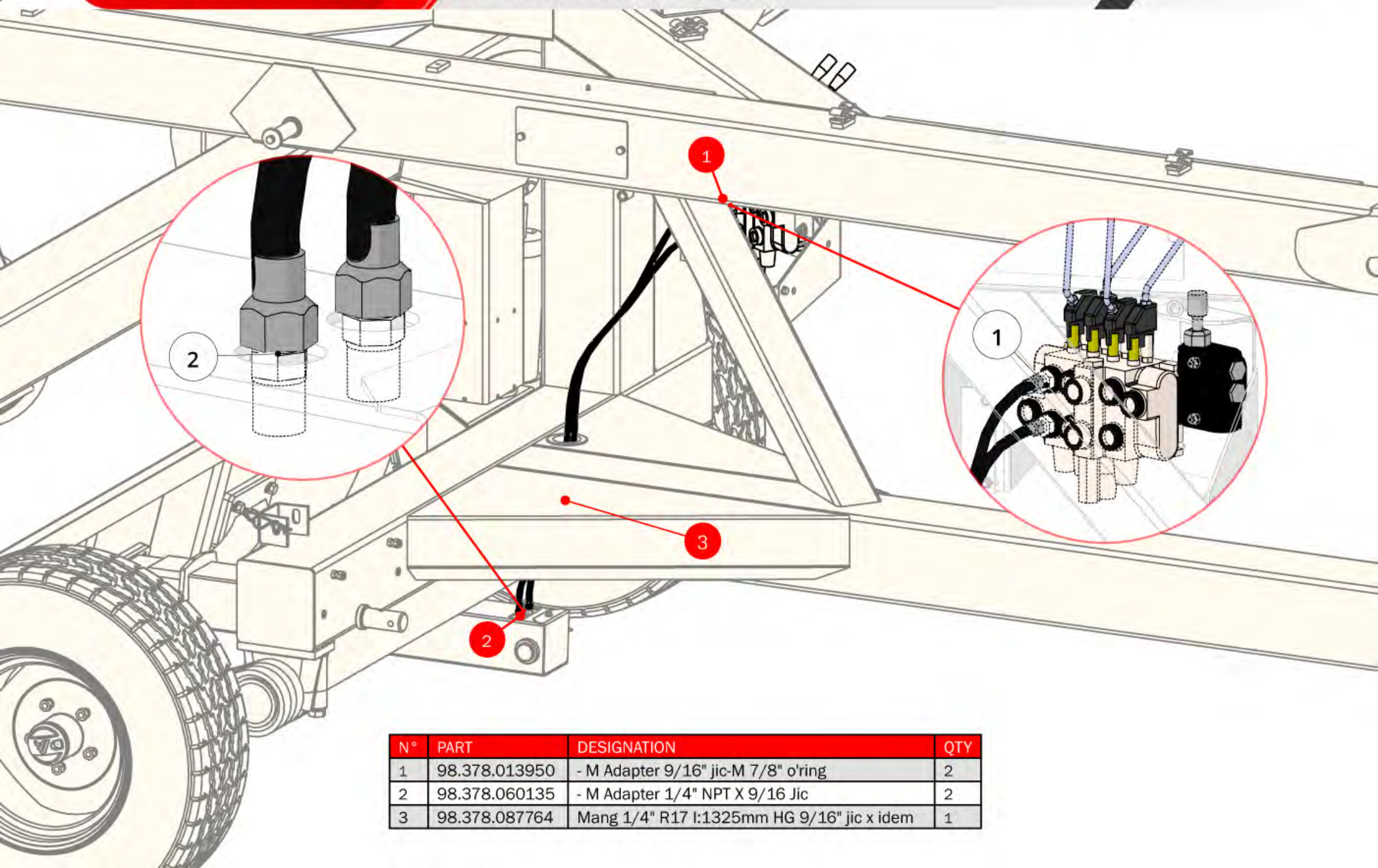
N°	PART	DESIGNATION	QTY
1	98.378.013950	- M Adapter 9/16" jic-M 7/8" o'ring	2
2	98.378.087770	-- Elbow M 3/4" JIC-M 1/2" NPT	2
3	98.378.087762/3	-- Hose	1



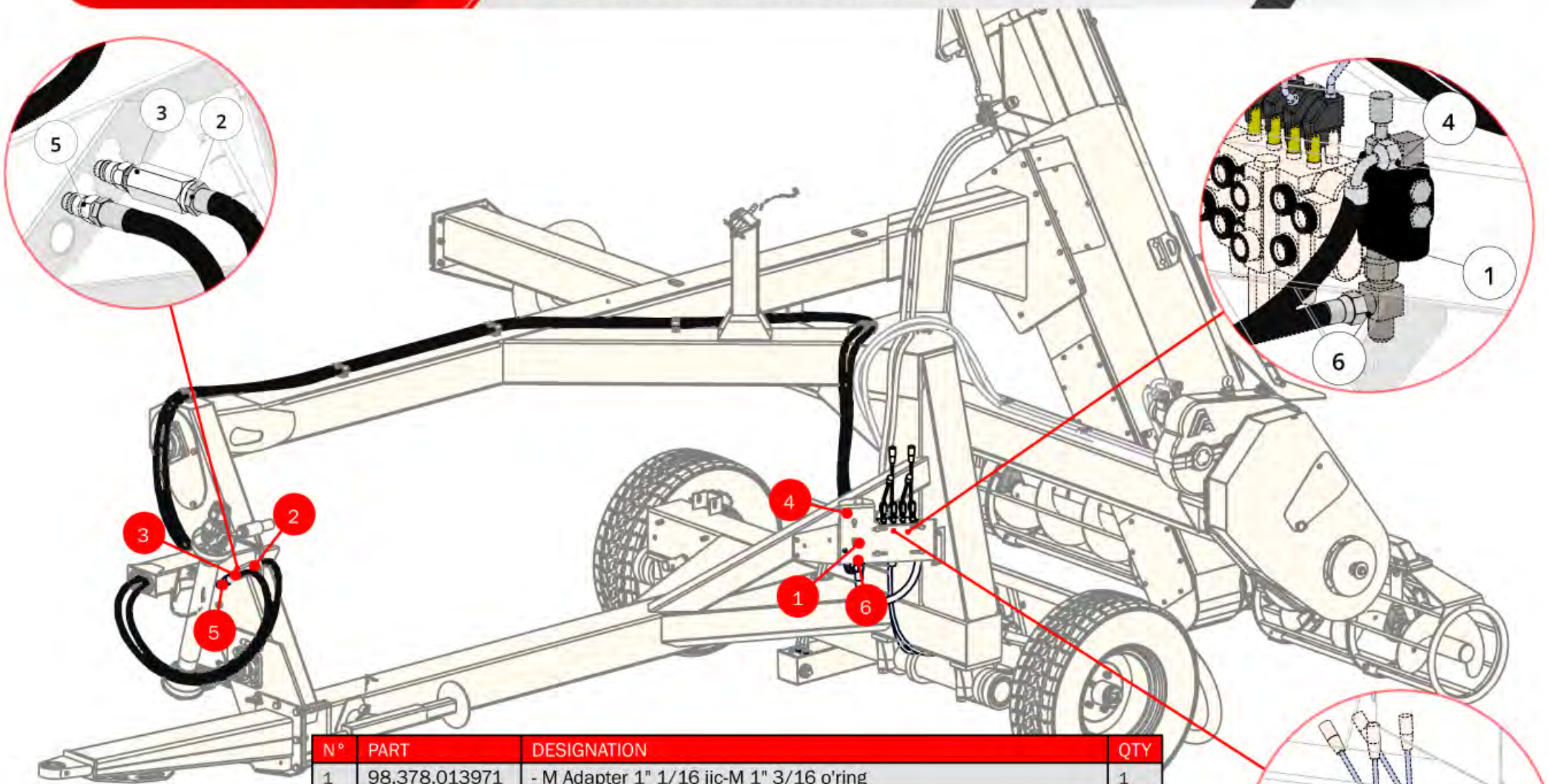
N°	PART	DESIGNATION	QTY
1	98.378.013950	- M Adapter 9/16" jic-M 7/8" o'ring	2
2	98.378.087772	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm	1
3	98.378.087765	-- Hose	1
4	98.378.087773	- M Adapter 1/4"NPT-M3/4"JIC P.R 1.25mm LONG	1



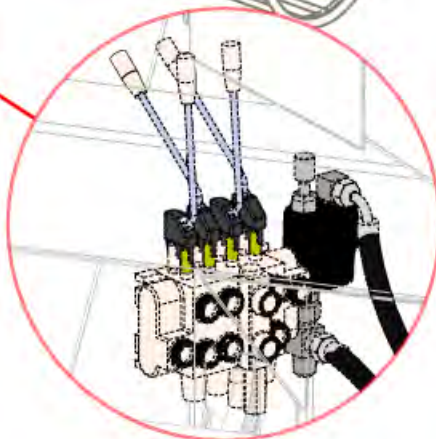
N°	PART	DESIGNATION	QTY
1	98.378.013937	- M Adapter M 7/8" jic-M 7/8" o'ring	2
2	98.378.087767	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
3	98.378.087771	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
4	98.378.087761	-- Hose	1

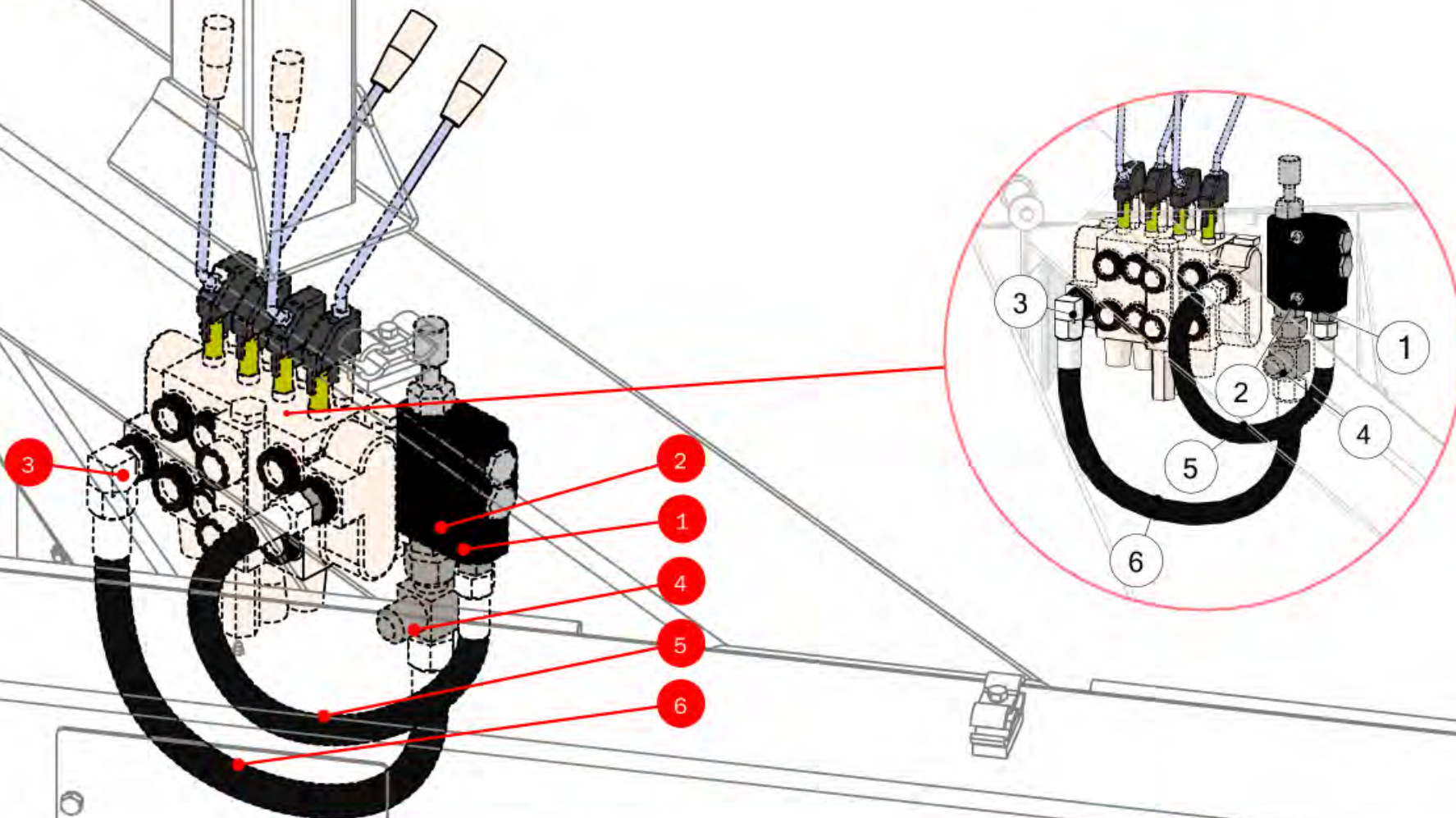


N°	PART	DESIGNATION	QTY
1	98.378.013950	- M Adapter 9/16" jic-M 7/8" o'ring	2
2	98.378.060135	- M Adapter 1/4" NPT X 9/16 Jic	2
3	98.378.087764	Mang 1/4" R17 l:1325mm HG 9/16" jic x idem	1



N°	PART	DESIGNATION	QTY
1	98.378.013971	- M Adapter 1" 1/16 jic-M 1" 3/16 o'ring	1
2	98.378.087753	- Unidireccional Valve 3/4" NPT	1
3	98.378.087766	- M Adapter M 1/2"NPT-3/4"NPT	1
4	98.378.087769	-- Elbow M 1" 3/16 JIC-M 1" 3/16 o'ring	1
5	98.378.500125	- M Coupling Tip 1/2" NPT	2
6	98.768.087768	- M Tee fitting 1" 1/16 jic-M 1" 1/16 jic-HG 1" 1/16 jic	1
7	98.378.087757	-- Hose 3/4"R17 l:7520mm 90° elbow FS 1" 3/16jic-M 1/2" NPT	1
8	98.378.087758	-- Hose 3/4"R17 l:7520mm 90° elbow FS 1" 3/16jic-M 1/2" NPT	1





N°	PART	DESIGNATION	QTY
1	98.378.013937	- M Adapter M 7/8" jic-M 7/8" o'ring	2
2	98.378.013971	- M Adapter 1" 1/16 jic-M 1" 3/16 o'ring	1
3	98.378.020116	-- Elbow M 7/8" JIC-M 7/8" o'ring	1
4	98.768.087768	- M Tee fitting 1" 1/16 jic-M 1" 1/16 jic-HG 1" 1/16 jic	1
5	98.378.087759	-- Hose	1
6	98.378.087760	-- Hose	1

98.846.085860

98.846.085861

98.846.085862

98.846.028959



SAE J560

98.846.085852

**ELECTRICAL
SYSTEM TYPE**



N°	PART	DESCRIPTION	QTY
1	98.846.085862	Section of cable type TPR 2x1 5m3 one side with flat male terminal and another flat female terminal length total 5.90 meters (BLUE-BROWN).	1
2	98.846.085859	LED Reflectors.	1
3	98.846.085861	Section of cable type TPR 2X1.5m2 one side with male spade terminal and one free – length total 6.30 meters (BLUE-BROWN)	1
4	98.846.085860	Plastic connection tab – 7 pins.	1
5	98.846.085863	Two-pole plastic connection tab for flat terminal.	2

Brown: GND.



Light blue: Feed (+)
Lamps.

