

FASTERHOLT

SQUARE BALE WAGON

QB-3

YEAR 2011-

**OPERATING MANUAL
AND
SPARE PARTS CATALOGUE**



**A/S FASTERHOLT MASKINFABRIK
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Dato: 05-08-2011

OPERATING MANUAL FOR QB3 SQUARE BALE WAGON
"Original operating manual Issue 1, June 2011"

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EU Declaration of Conformity for a machine
Machinery Directive 2006/42/EU, Annex II, A

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Represented by:
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Documentation responsible for technical dossier
Christian Lambæk, production manager, FASTERHOLT Maskinfabrik A/S.

hereby declare, that

Machine model / Type: QB3 wagon for big bales, no. VOQB303

Vintage: _____ Machine No.: _____

complies with all relevant provisions of the Machinery Directive - 2006/42/EU.

Using the following harmonized standard:
DS/EN 349 + A: 2010 DS/EN ISO 13857:2008, DS/EN/ISO 12100 -1,-2,: 2010.

Place: DK- 7330 Brande

Date: _____

Signature: _____

Christian Lambæk, production manager

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Introduction - QB3 square bale wagon

FASTERHOLT square bale wagon type QB-3 is mounted directly to the baler, where it retains up to three bales. Hereby you can unload in one or a few unloading areas on the field. This facilitates the collection, and makes both loading and any wrapping significantly easier.

The bale wagon is designed so that it roughly follows the baler in a straight line during fieldwork. This avoids damage to the bale coming out of the chamber when turning in the field. During road transportation the wheel's steering system is locked, so that the wagon runs after the baler as a standard 2-wheeled trailer.

FASTERHOLT offers two types of QB-3 bale wagons. One for Mini-big and one for Big bales.

Both of them are equipped with full hydraulic steering of the wheels. Switching and locking from field- to road driving is set on the wagon or from the tractor's hydraulic system. (Extra equipment).

The two types of control mode ensure a gentle handling of the bales during baling in the field, and a traffic safe transportation on the road.

Universal pull for welding on the baler is included.

The QB3-wagon is delivered with manually adjustable fastening for wheel system control cylinder. This should be moved laterally by road-transportation.

Technical data:

Length:	685 cm
Width:	248 cm
Platform height:	72 cm
Belt width:	40 cm
Wheels:	14.00x16" / 14 PR
Net weight:	1250 kg
Total weight:	4000 kg

Equipment:

Pull to baler with hydraulic moving of the wheel steering system cylinder, instead of manually.

Requirements for equipment behind the baler: A double acting outlet, or a single acting outlet with direct return to tank.
A standard 7-pin light socket.

Possibly a plug bale contact for QB-3 standard wagons. (Is standard on QB-3E).



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Belt mounted on belt rolls, which move the bales on to the bale wagon after baling. The belt-rollers are mounted in sealed bearings with bearing houses that can be lubricated.



During baling the bales land on the screen at the bale wagon's front. The screen also function as a cover over the bale wagon's hydraulics.



When the bale wagon is loaded with the 3 bales, the bales are unloaded with the belt.



The bale switch allows you to get a signal in the tractor when the wagon is loaded, so a suitable place for unloading can be found in good time.



During road-transportation the wheel's steering system is locked, so that the wagon runs after the baler as an ordinary 2-wheeled cart

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IMPORTANT! **READ THROUGHT THIS BEFORE YOU** **TAKE YOUR QB3 SQUARE BALE** **WAGON IN USE!**

Operating instructions for Fasterholt QB3 Square Bale Wagon

By purchasing your Fasterholt Square Bale Wagon you have got a Danish quality product. But even the best of machines only provide top results when used and treated properly.

In order to ensure its conformity with the EU Machinery Directive, it is necessary to use only original spare parts. Otherwise the compliance will lapse, and safety is entirely at your own risk.

Intended use

The square bale wagon is designed to carry three square bales. In the field the wagon is pulled by a square baler, and after pressing the bales, they are loaded on to the bale wagon and later unloaded together at specific place in the field.

Any additional use is outside the intended use, and Fasterholt Maskinfabrik shall not be held responsible for any consequential damages.

The QB3 Square Bale Wagon may only be used and maintained by people whom through appropriate instruction and studies of the manual are familiar with the QB3 Square Bale wagon and especially aware of the dangers associated with using it.

Unauthorized changes to the machine and its construction exempt Fasterholt Maskinfabrik for any form of liability for consequential damage.



1. Safety instructions/Warnings!

It is very important that you as a user of the machine are extremely aware that you use the QB3 Square Bale Wagon properly so that you do not expose yourself or others to unnecessary danger

Therefore please read this operating manual carefully before the QB3 Square Bale Wagon is connected with the baler.

The QB3 Square Bale Wagon should never be left to others before you are convinced that they have the necessary knowledge to operate the round bale wagon properly.

General Safety Rules

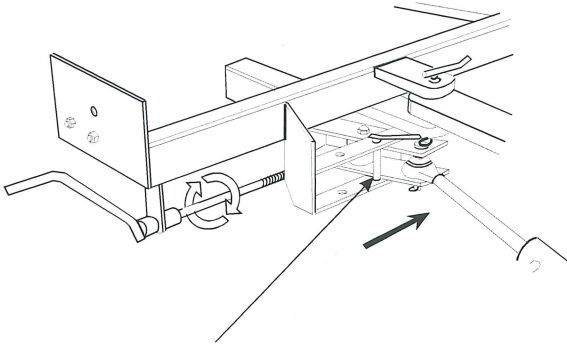
- Do not use the QB3 before other persons are at a safe distance. Never allow children to stay near the RB3 in operation.
- Always disconnect the QB3 from the baler before lubricating the machine, cleaning the machine, dismantling the machine or adjusting the machine.
- When connecting or disconnecting the QB3 to the baler you must make sure, that there aren't any persons in between the QB3 and the baler.
- Before using the QB3 you must ensure that loose objects and tools are removed from the machine.
- When working under the QB3, the wheels must be blocked.
- The screen must be properly installed and undamaged before activating the QB3.
- Avoid working in loose clothing that can be pulled into moving parts of the QB3.
- Do not go near the moving parts on the QB3.
- Do not change the screen on QB3 or work without the screen on the QB3.
- Always use the statutory lightning and safe distance labelling for transport by public road, and when driving at night.
- Limit transport speed to the maximum specified speed on the QB3. If the machine is not marked with a maximum permissible speed, the machine must maximum be transported by 25 km/h.
- Do not use the RB3 for other work than described in the intended use.

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- Do not stand on the baler or other platform on top the QB3, when it is in operation.

- Stay on the wagon during operation and transport must not take place.



- When parking of the QB3 please ensure that the machine stands on a levelled surface and that the support wheel is correctly fixated.

- Remember when driving on the road, that the steering cylinder is placed into the transport position (No.1), and secured with a split bolt and split (delivered with wagon).

Fig.1. Pull with crank handle

Split bolt in transport position

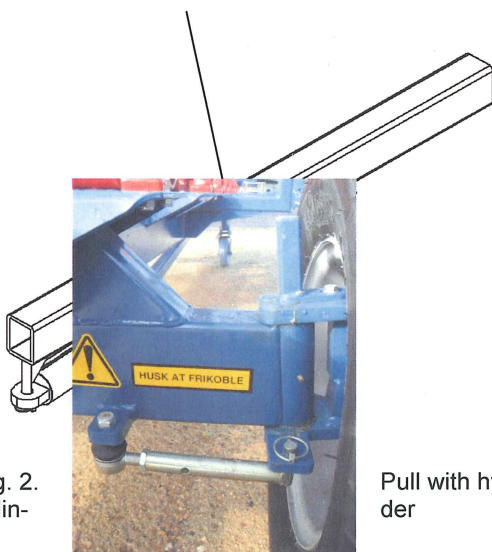


Fig. 2. cylin-

- Re-
ing on the road that the control arm

Pull with hydraulic
der

member when driv-

must be LOCKED with locking pliers with split on the in side of the main beam to the wheel at the right side

- To avoid damage to the belt, sharp articles must never get in contact with the belt.
- You should ONLY run bales of vehicle and NOT forward against baler.

- Remember tightening of wheel bolts

- **DANGER!** Avoid welding in the paint film! In case of welding, remove all paint from the welding area – avoid inhalation of sanding dust.

Hydraulic oil can be harmful because:

- Contact with skin may cause allergies
- Inhalation of oil mist may cause lung ailments
- Leakage of oil under high pressure is dangerous because a oil jet can cut into the skin, eyes, etc.
- If any leak on the wagon is noticed stop this immediately and solve the problem
- Please note, when the RB3 is in operation the oil may be 70 degrees Celsius hot or even more. This can cause a risk of scalding by separation.

Disposal of oil spills:

- If oil is found spilled, promptly remove with rags or oil-absorbing powder.
- Spilled products, wipes and powder used for removing oil spills must be kept in closed metal containers and brought to the municipal collection points.

2. Setting of QB3 Square Bale Wagon before taking it into use

The wagon is connected with a special drawbar (which is delivered with the square bale wagon) to the baler. – Remember the safety split!! After assembly, the bale wag-

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on must be at level or even lower at the rear than in the front.

Then lower the wagon with the support foot, so that the wagon is resting on the drawbar. Remove the support foot and mount it in the square pipe on the side of the frame.

- Remember the safety split!
- Connect the hydraulic hoses to the double-acting outlet so that the belt can run around.
- When replenishment of the hydraulic oil to the steering cylinders the outlet by the hand pump on the left side of the wagon is connected.
- Place light cable in plug on the baler.
- Plug outlet to bale stop into the AC to connected alarm
- **Before using, put the steering cylinder at the draw bar in operating position (No. 2), so that there is control fluctuation and thus the wagon follows the rear end of the baler.**

- **Remember TO REMOVE THE LOCKING BAR** by pulling the pin on the inside of the main beam at wheel on the right side.

Fig. 3 Pull with crank handle

Split bolt in operating position

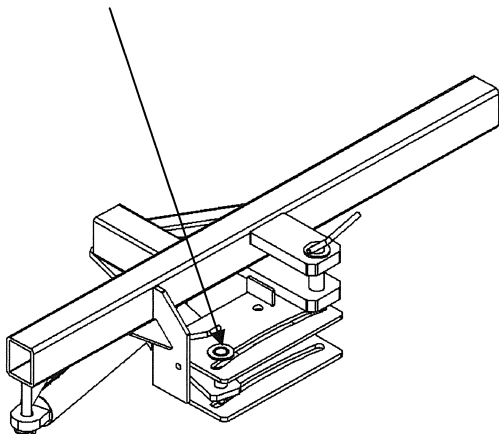
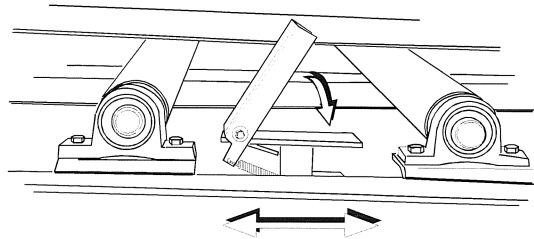


Fig. 4 Pull with hydraulic cylinder

3. Adjustment of the pressure in the control cylinder using the hand pump

See photos on page 9



4. Using the Square bale wagon

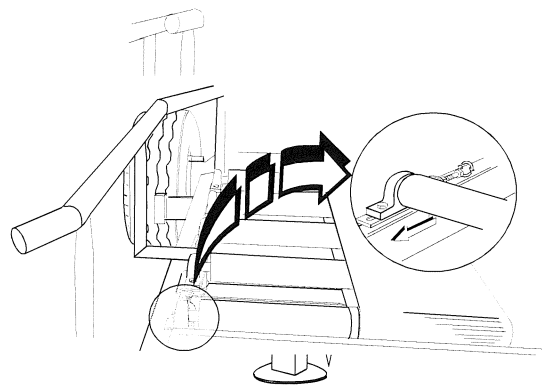
Using the square bale wagon the driver must be on the tractor.

Loading of the bale wagon is done when the bales are pushed on to the bale wagon during the baling of bales. The bales are pushed backwards on the wagon until it is full and you see the signal from the bale stop.

- Bale stop

When the bale wagon is filled, you unload it wherever you like. For example at the end of the field.

The unloading of the bales is done by running the belt around simultaneously with the baler running forward. Herewith all the bales fall to the ground after the bale wagon.



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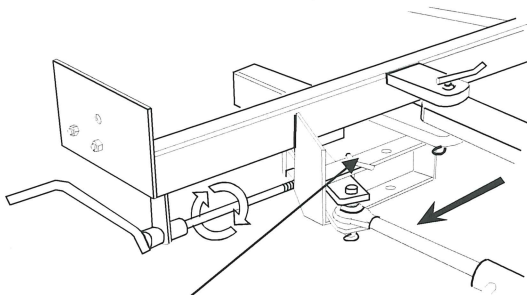
Before reversing the bale wagon the split bolt at the steering cylinder must be changed from operating to transport position (see page 6), as the wheels otherwise will turn out to either side.

In case of reversing with the split bolt in the operating position, there is a risk of air in the hydraulic system, which then must be vented.

Operating functions:

Maintenance:

Lubricate all grease fittings with grease
(Approximately each week the bale wagon is in operation)



- 26 pcs. nipples by support rollers
- 2 pcs. steering axles
- 1 pcs. steering cylinder
- 1 pcs. jack in top

Grease the threads of strapping and thread by setting the transport / operating position

Make sure that the belt is always tight.

Check that the wagon follows the baler.

Control of light.

Remember to regularly tighten the wheel nuts.

Remember to check the tire pressure regularly (70 psi)

When replacing the belt always check whether it runs tight at the centre of the belt rolls.



5. Errors on the square bale wagon

The bales can not be pulled off:

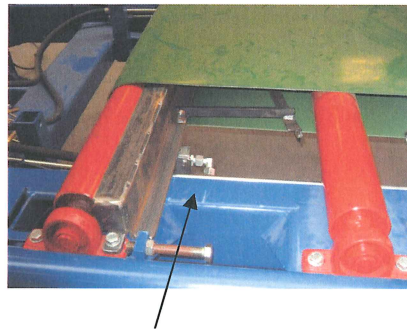
- The belt is too loose and should be tightened
- Too little oil pressure

Steering gear springs:

- There has come air in the hydraulic system
- The system must be vented. The ventilation can be carried out by dealer or Fasterholt Maskinfabrik. If the wheels are not entirely parallel to the baler the ball valve between the 2 groups can be used for adjustment

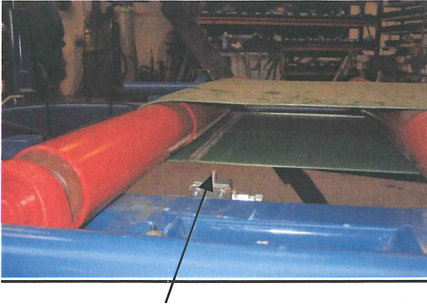
The belt does not run around:

- There is a straw by the front roll, which can be removed when the safety screen is removed. Before removing the safety screen, make sure the belt is stopped. When the safety screen is removed, the safety valve for the belt hydraulic system is activated, and the band will not be able to run during removal of the straw.



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- Safety valve for the hydraulic system.

6. Technical data

The wagon is designed for bales with the following dimensions:

Height	0 - 125 cm
Width	80 - 125 cm
Length max.	240 cm

Max. weight per bale: 850 kg

Width - platform	min. 250 cm. to max. 300 cm
Length - platform	520 cm
Length w/pull	630 cm
Height w/pull	80 cm
Oil consumption	max. 25 – 30 l
Oil pressure (max. 170 bar.)	160 kg
Tire pressure	70 psi

Unloading time depends on the tractor's oil flow.

Own weight	2200 kg
Max. load	3600 kg

Noise:

The sound level of QB3 Square Bale Wagon is below 70 dB (

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- Safety screen by the belt.



Setting the oil pressure by using hand pump

The oil pressure in the steering cylinder

at the drawbar and the wheel can be adjusted with a hand pump by following steps:

(Before the screen is removed the belt must be stopped!)



1. Screen is removed



2. The wheels of the wagon must be in the centre position and the steering arm must be locked with a locking bar
The control cylinder at the drive must be placed in the middle position (transport position)
(See fig.2 page 1)

Steer to lock lever (2a)

2a. If the locking arm can not be locked with the pin to the wheel, the wheel can be turned with this handle.

The handle is placed on the pipe above the locking arm

(See figure 2)

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3. The tap between the 2 groups is opened with spanner



4. The tap to the left of the manometer is opened with spanner.

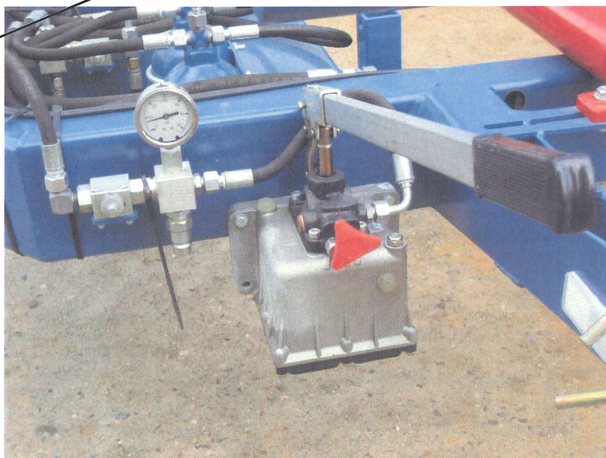


5. The tap (red handle) on the pump is opened.



The pump handle is placed in the holder on the pump.

6. First, oil is pumped into the system with the pump handle



to obtain a pressure of 17bar gauge. Then the tap between the 2 groups is closed. (See Figure 3).

the



7. Now oil is system until a pressure



pumped back in of 37

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bar is achieved, then the tap at the pressure gauge and valve on the pump (red handle) closes.

Remember to check the oil in the tank regularly, as there may be air in the hydraulic system in case the tank is pumped empty. The oil level can be controlled by the sight glass to the right of the red handle. Oil can be filled by the bolt above the sight glass.

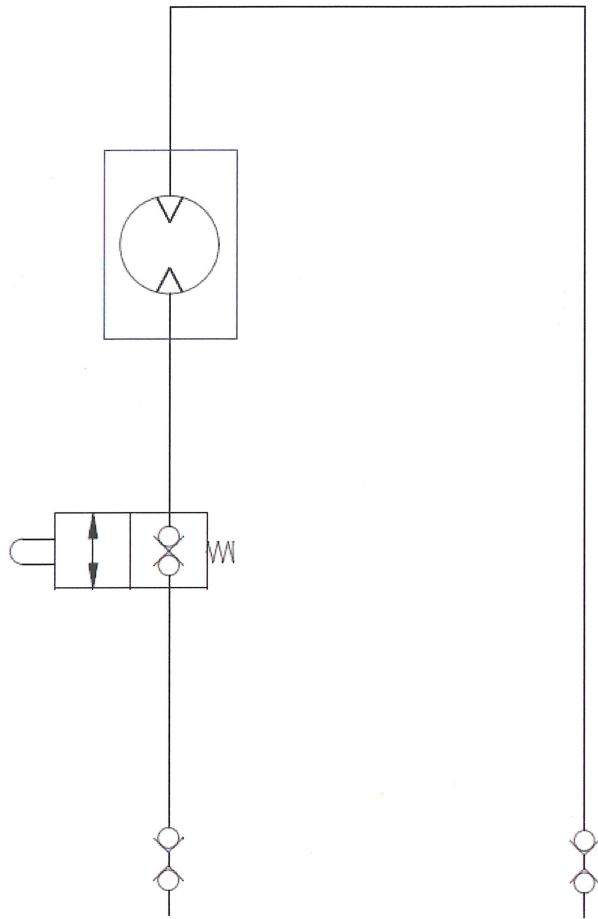
Examples of assembly of the pull

The selected examples applies both to pull with crank handle and hydraulic cylinder.

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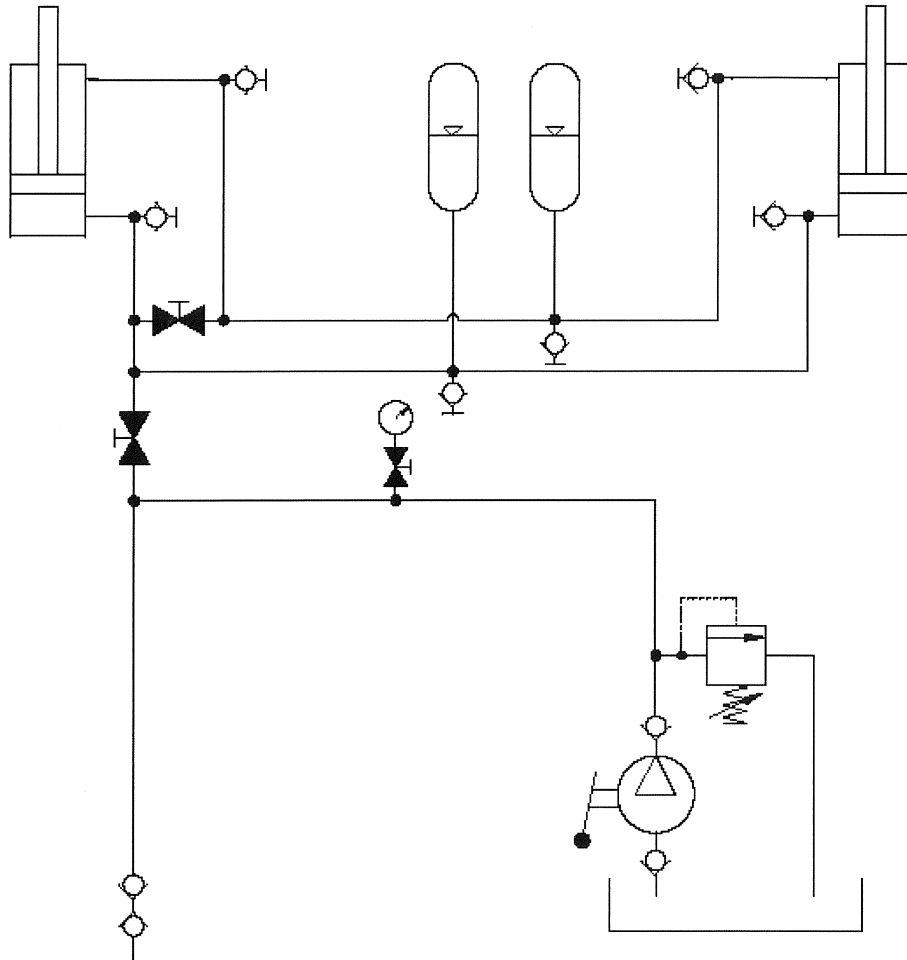


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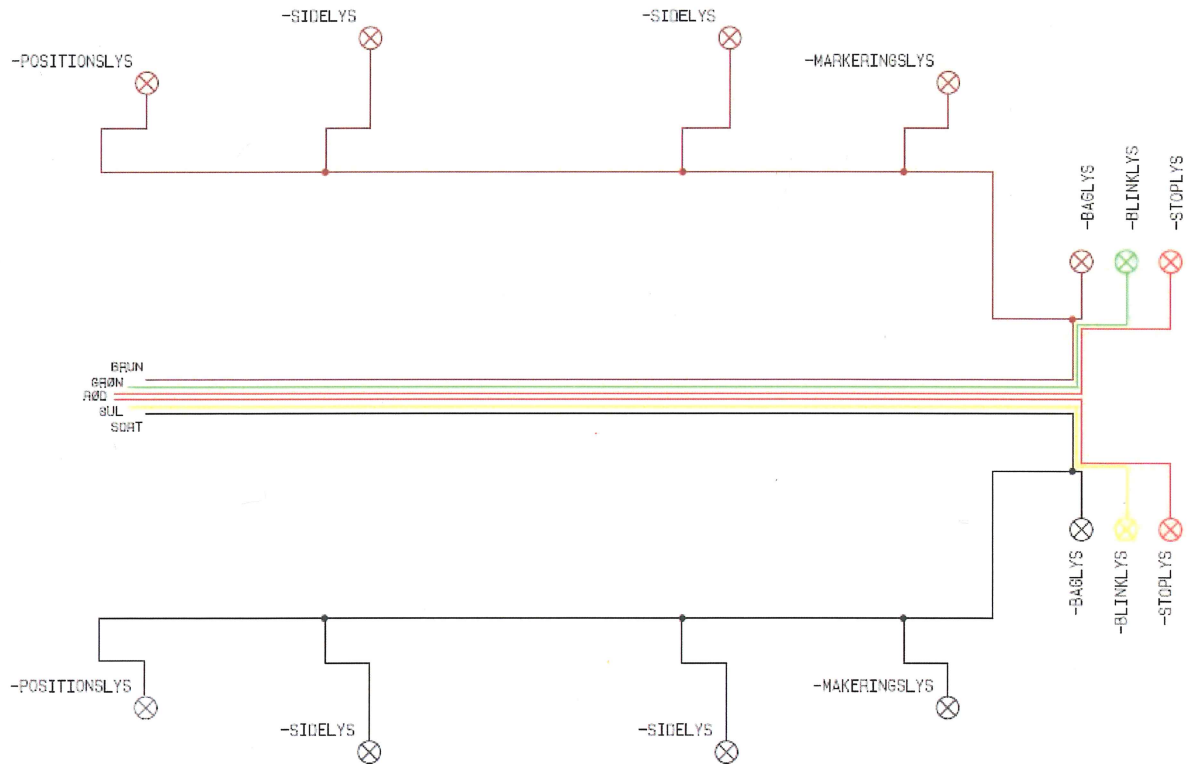
Orbit motor for belt with safety valve

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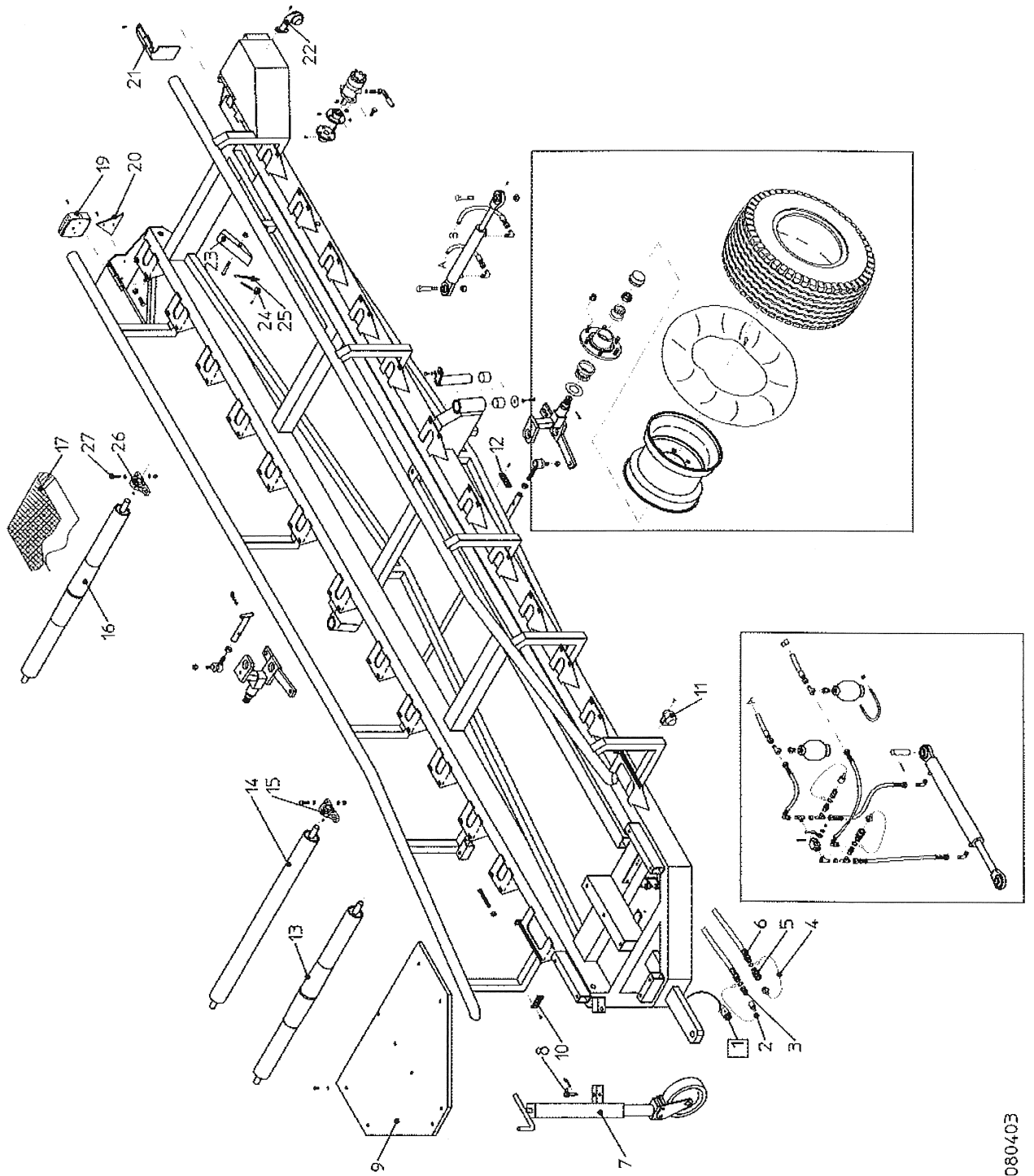


Forced steering of QB3 square bale wagon

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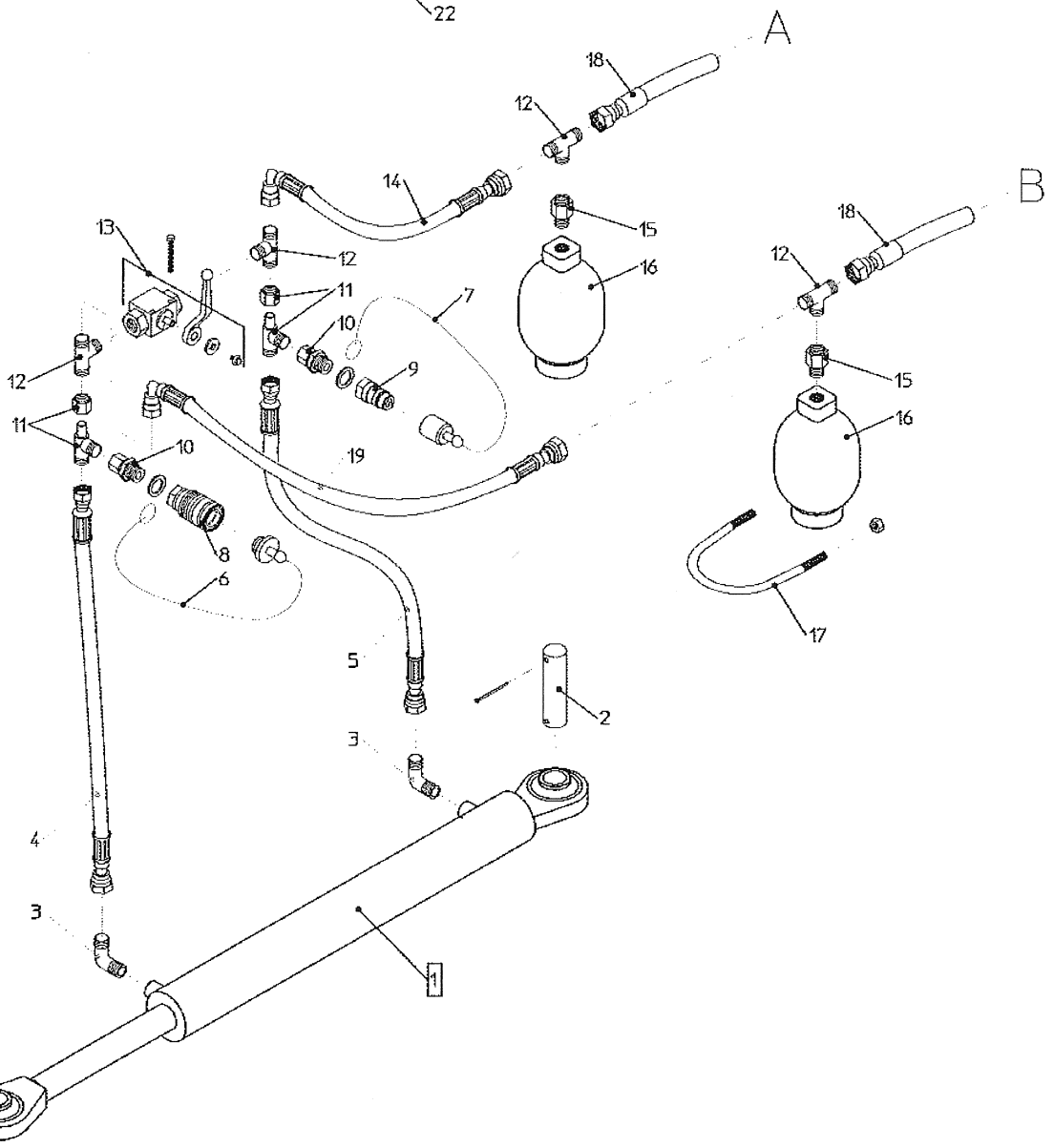
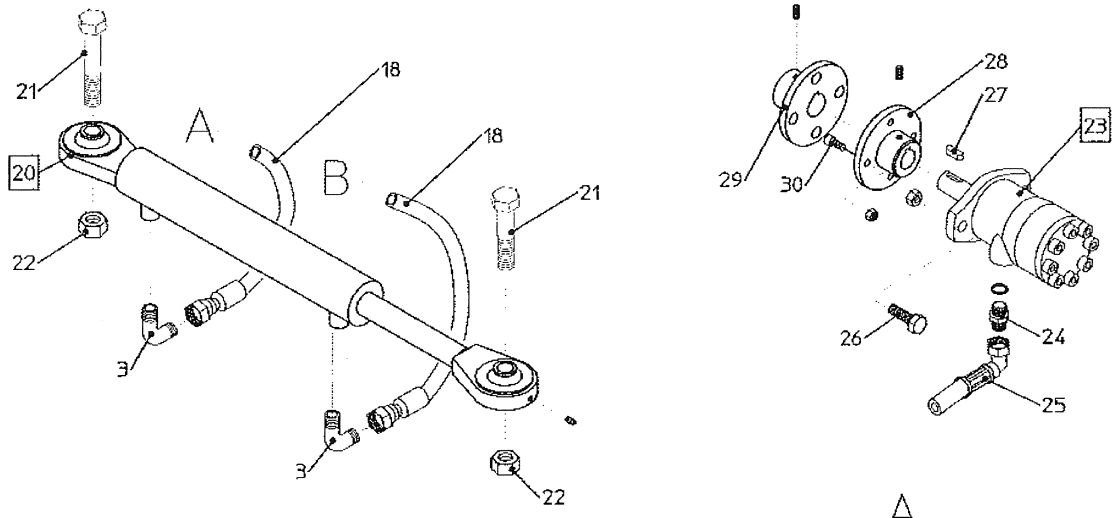


Wiring diagram of light



SQUARE BALE WAGON Fasterholt QB-3 Model 2002 from machine no. 3019

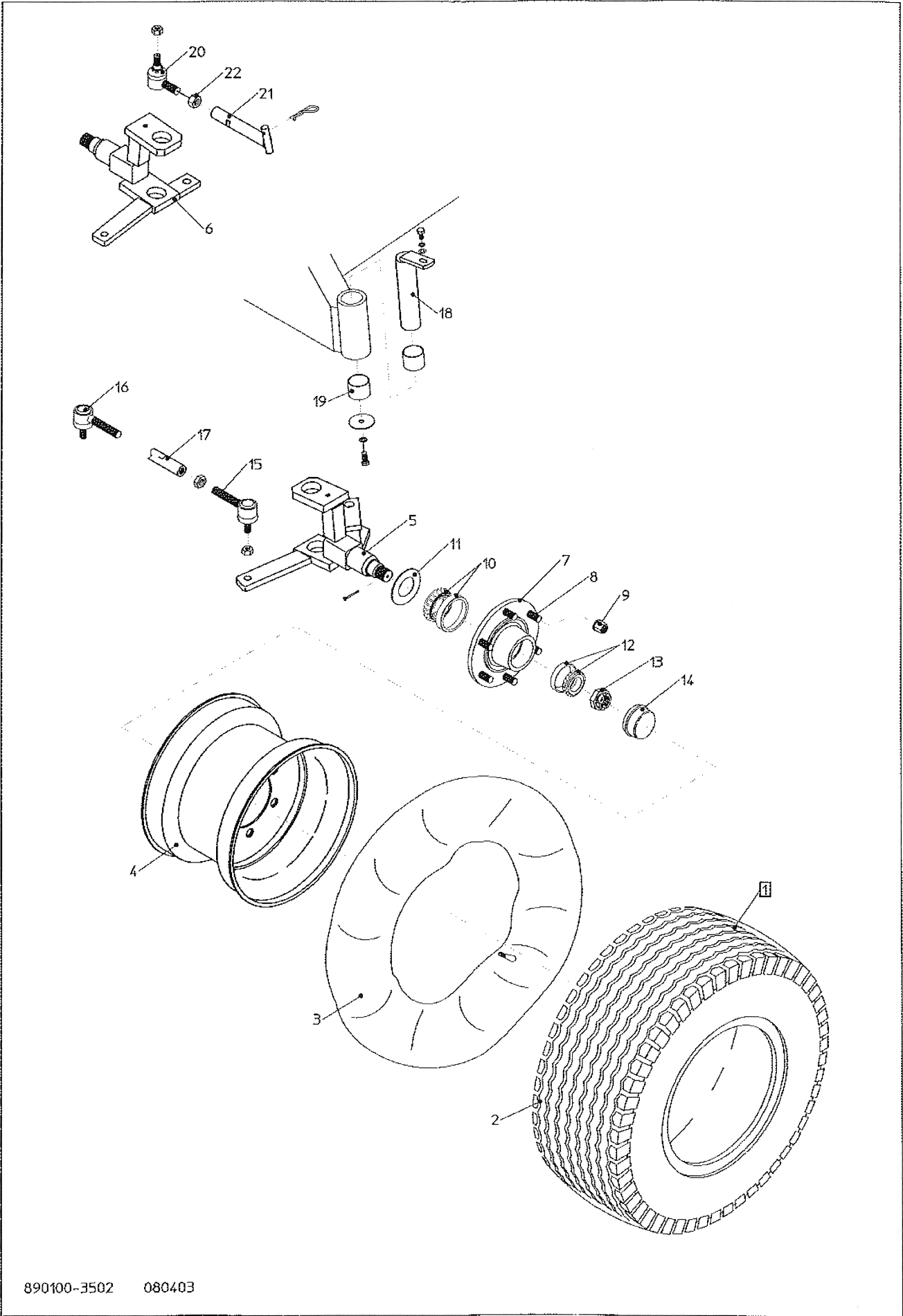
Pos. no.	Part no.	Name	Comments
1	890470	Mail cable	with plug
	895400-2	Plug	7-pin
2	801711	Hood for male coupling	
3	801710	Male coupling	1/2"
4	801706	Stopper for female coupling	
5	801705	Female coupling	1/2"
6	890500	Hose for oil motor	1/2" x 8100 mm.
7	890420	Support wheels, cpl.	W/ steel wheels
8		Split bolt	
9	890380	Screen	
10	890475	Reflex	White 90 x 40 mm.
11	895405	Position lamp	White / Red
	895410	Bulb	5 W
	895405-1	Light lens	Clear (White)
	895405-2	Light lens	Red
12	895445	Side marker lamp	Yellow with 300 mm cable
13	890255	Turning roller	
14	890260	Carrier roller	
15	890390	Steel bearing	Ø30 mm.
16	890250	Pull roller	With keyway
17	890400	Belt	Width 400 mm. Endless
18			
19	890480	Rear light	With glass
	890480-1	Rear light glass	
	895420	Bulb brake lights and indicators	21 W
	895415	Bulb rear light	10 W
20	872210	Triangle reflector, red	160x160 mm.
21	890120	Screen above oil motor	
22	890477	Marker light, cpl.	With 300 mm cable
23	890370	Stop block	
24	890498	Bale contact	
25	890499	Pill spring	Ø8,0 x 1,0 x 55 mm.
26	890390	Steel bearing	Ø30 mm.
27	761116	Steel bolt	M12 x 40 mm.



890100-3501 080403

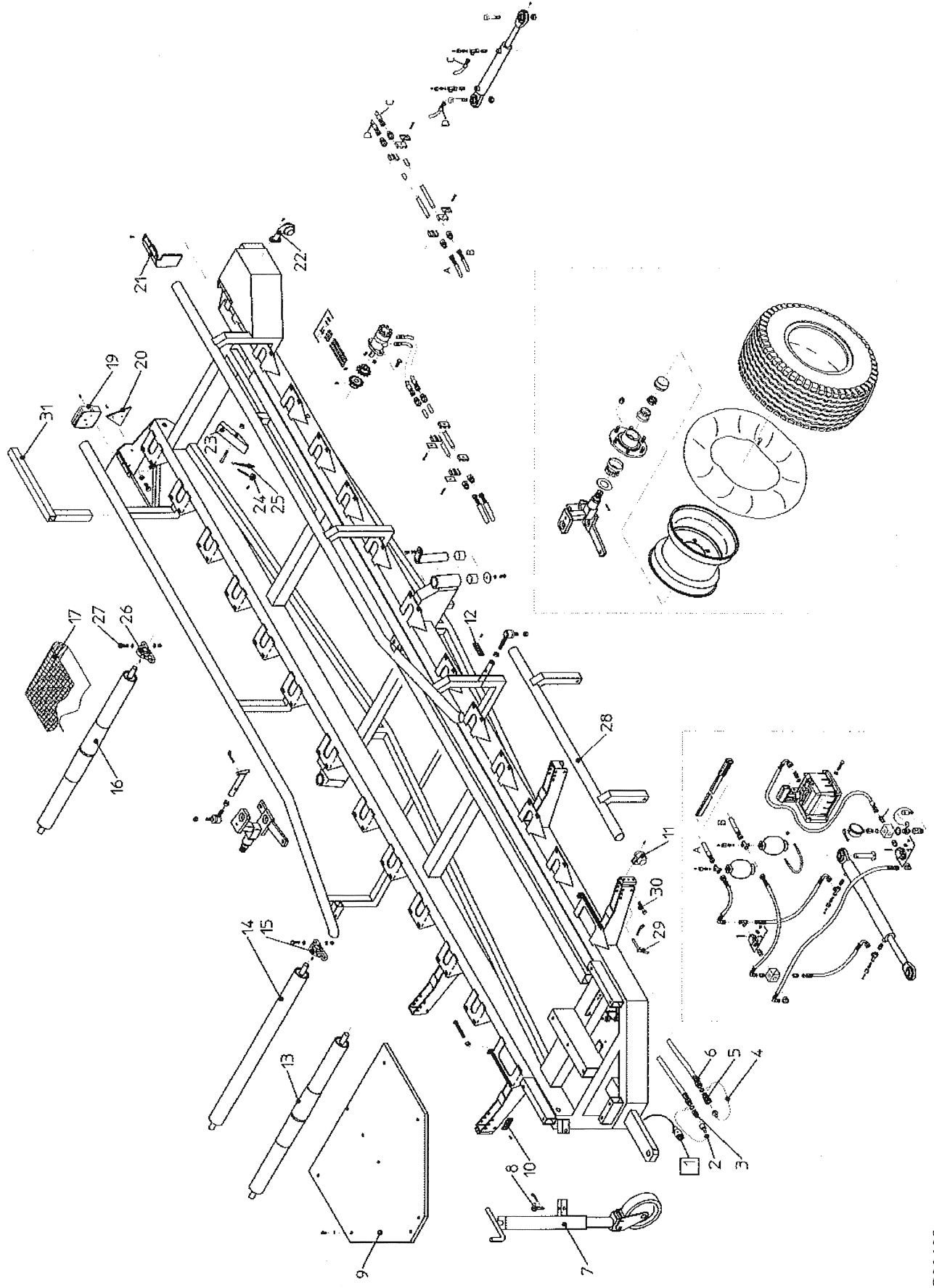
SQUARE BALE WAGON Fasterholt QB-3 Model 2002 from machine no. 3019

Pos. no.	Part no.	Name	Comments
1	890416	Cylinder cpl. with pull	Ø60/35 x 500 mm.
2	890418	Split bolt for cylinder	Ø25 x 125 mm.
3	1007544	Angle	3/8"
4	890509	Hose	3/8" x 450 mm.
5	890508	Hose	3/8" x 300 mm.
6	801706	Plastic hood for female coupling	
7	801711	Plastic plug for male coupling	
8	801705	Female coupling	1/2"
9	801710	Male coupling	1/2"
10	1007529	Nipple	1/2" x Ø12 straight connector
11	1007531	Tee	Ø12 x Ø12 x Ø12 straight connector
12	1007537	Tee	Ø12 x 3/8" x Ø12.
13	1007510	Ball valve	3/8" 2-way
14	890511	Hose	3/8" x 400 mm.
15	890411	Nipple	M18 x 1,5 / 3/8" Int. thread
16	890410-1	Accumulator	0,75L. pressure 125 bar.
17	890412	U-bolt	
18	890505	Hose	3/8" x 3700 mm.
19	890512	Hose	3/8" x 400 mm.
20	1008585	Cylinder	Ø50/30 x 280 mm.
21	763850	Bolt	M20 x 110 mm.
22	763600	Nut	M20
23	1007400	Oil motor	
24	890413	Nipple	1/2" x Ø15 ring
25	890500	Hose	2 pcs.
26	763700	Bolt	2 pcs. M12 x 45 mm.
27	1007441	Spring	8x7 x 32 mm.
28	890210	Coupling part oil motor	Ext. Ø25 mm..
29	890215	Coupling part pull roller	Ext. Ø30 mm.
30	763770	Nuts for coupling	M10 x 20 mm. St. 12,9



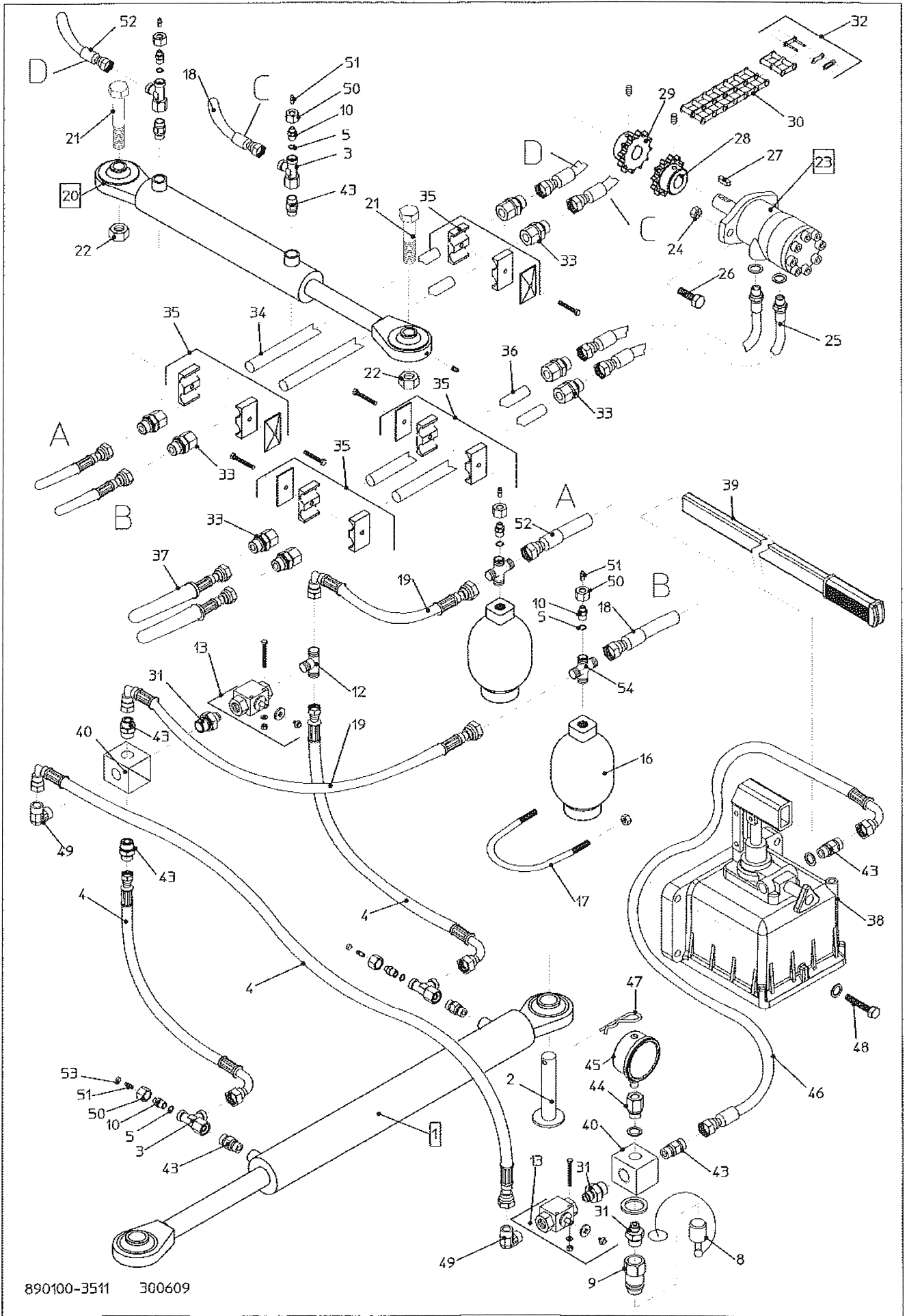
SQUARE BALE WAGON Fasterholt QB-3 Model 2002 from machine no. 3019

Pos. no.	Part no.	Name	Comments
1	890800	Wheels, cpl.	1400/65 x 16" x 14 layer cpl.
2	890800-1	Tire	1400/65 x 16" x 14 layer
3	872915	Hose	1400 x 16"
4	872905	Rim	Drilling 161/205 x 6 hole, silver
5	890160	Hub with axle, cpl.	Drilling 161/205 x 6 hole, left
6	890150	Hub with axle, cpl.	Drilling 161/205 x 6 hole, right
7	890150-10	Hub house	
8	1009181-3	Hub bolt	M18 X 1,5 X 50 MM
9	1009181-4	Hub nut	M18 x 1,5
10	890150-11	Bearing	
11	890150-12	Sealing	
12	890150-13	Bearing	
13	890150-14	Crown nut	
14	898150-15	Wheelcover	
15	890201	Trackback	Left
	890201-1	Counter nut	Left
16	890200	trackback	Right
	890200-1	Counter nut	Right
17	890198	Steering rod	
18	890205	Spindle shaft	Ø50 x 200 mm
19	1008101	Bushings	Ø50/55 x 50 mm
20	1008155	Trackback	M20 x 1,0 mm
21	890220	Locking rod	
22	1008157	Counter nut	M20 x 1,0 mm
23		Lock split	Ø5 mm



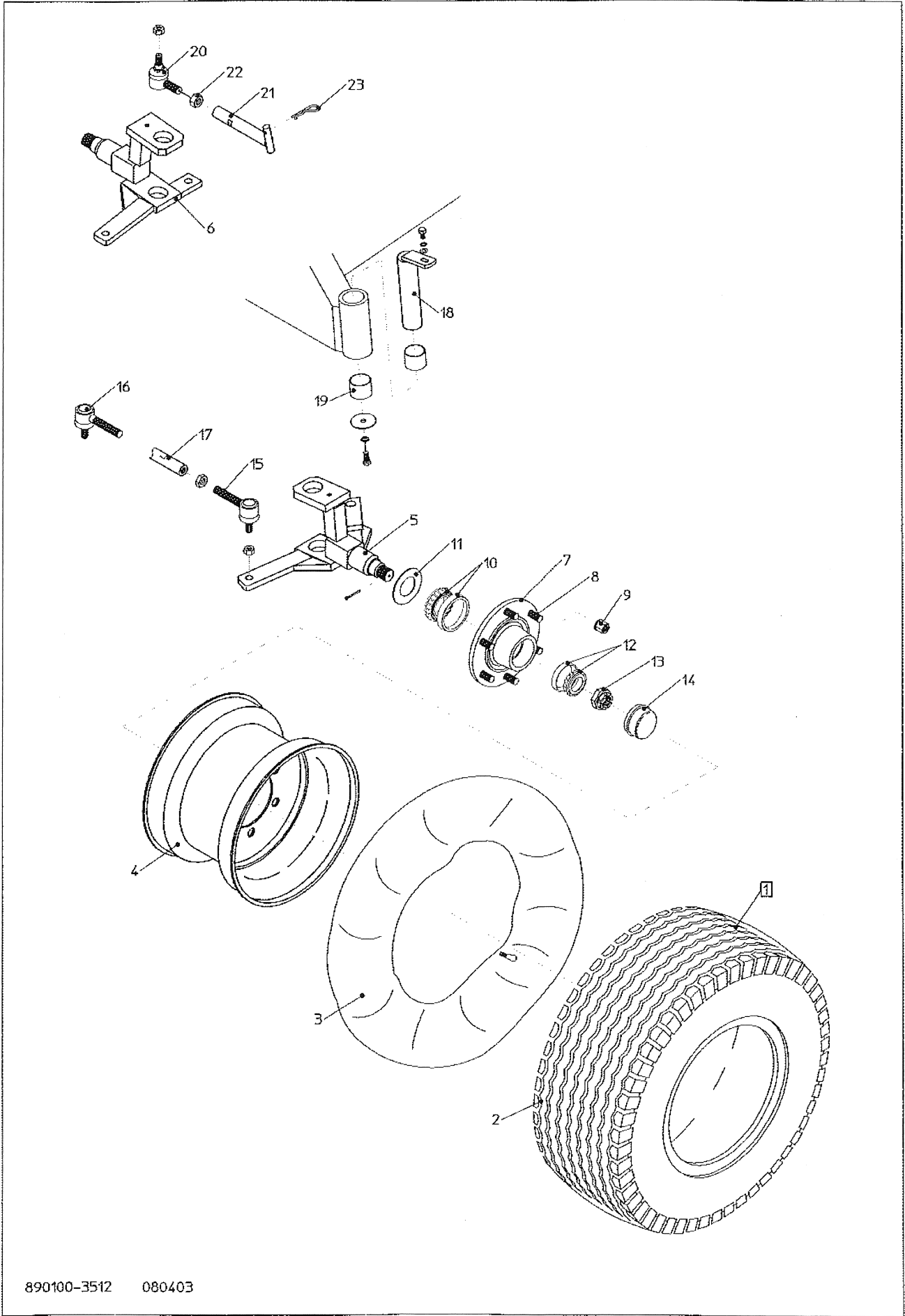
SQUARE BALE WAGON Fasterholt QB-3 Model 2003 from machine no. 3019

Pos. no.	Part no.	Name	Comments
1	890470	Main cable	with plug
	895400-2	Plug	7-pin
2	801711	Cap for male coupling	
3	801710	Male coupling	1/2"
4	801706	Stopper for female coupling	
5	801705	Female coupling	1/2"
6	890500	Hose for oil engine	1/2" x 2800 mm
7	890420	Support wheels, cpl.	With steel wheels
8		Split bolt	
9	890380	Screen	
10	890475	Reflex	White 90 x 40 mm
11	895405	Position lamp	White / red
	895410	Bulb	5 W
	895405-1	Light lens	Clear (White)
	895405-2	Light lens	Red
12	895445	Side marker lamp	Yellow with 300 mm cable
13	890255	Turning roller	
14	890260	Carrier roller	
15	890390	Steel bearing	Ø30 mm
16	890250	Pull roller	With keyway
17	890400	Belt	Width 400 mm. Endless
18			
19	890480	Rear light	With glass
	890480-1	Rear light glass	
	895420	Bulb - brake lights and indicators	21 W
	895415	Bulb rear light	10 W
20	872210	Triangle reflector red	160 x 160 mm
21	890120	Screen above oil motor	
22	890477	Marker light, cpl.	With 300 mm cable
23	890370	Stop block	
24	890498	Bale contact	
25	890499	Pull spring	Ø8.0 x 1.0 x 55 mm
26	890390	Steel bearing	Ø30 mm
27	761116	Steel bolt	M12 x 40 mm
28	890130	Loose railing	
29	890135	Lock split	Ø10
30	763515	Steel bolt	M10 x 85 mm
31	890270	Key handle for wheel	
32	890670	Safety screen	
33	-	Brush for safety bar	
34	890675	Safety bar for belt	
35	1008610	Hose	3/8" x 400 mm
36	890590	Safety valve	2 x 3/8"



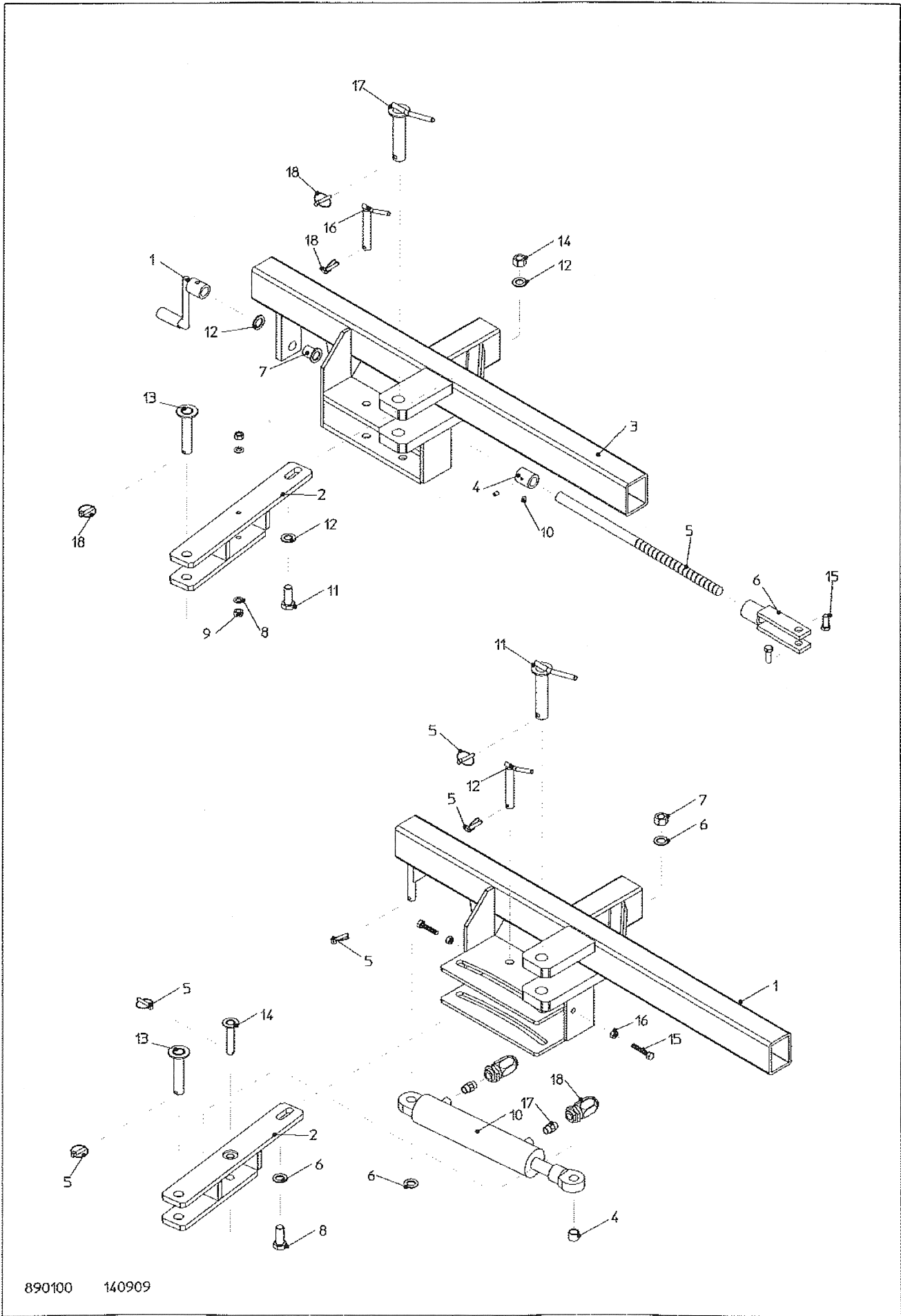
SQUARE BALE WAGON Fasterholt QB-3 Model 2003 from machine no. 3019

Pos. no.	Part No.	Name	Comments
1	890416	Cylinder, cpl. with pull	Ø60/35 x 500 mm
2	890418	Split bolt for cylinder	Ø25 x 125 mm
3	1007531	Tee	Ø12 x Ø12 x Ø12, solid
4	1007522	Hose	3/8" x 550 mm
5	1007498	O-ring	
6	-		
7	-		
8	801711	Plastic plug for male coupling	
9	801710	Male coupling	1/2"
10	1007499	Nipple	Stainless steel
11	-		
12	1007537	Tee	Ø12 x 3/8" x Ø12
13	1007510	Ball valve	3/8" 2-way
14	-		
15	-		
16	890410-1	Accumulator	0.75 L pressure 125 bar
17	890412	U-bolt	
18	1008609	Slange	3/8" x 1200 mm
19	890512	Slange	3/8" x 400 mm
20	1008585	Cylinder	Ø50/30 x 280 mm
21	763850	Bolt	M20 x 110 mm.
22	763600	Møtrik	M20
23	1007400	Oil motor	
24	763865	Nut	M12
25	1007530	Hose	2 pcs. 3/8" x 660 mm
26	763700	Set bolt	2 pcs. M12 x 45 mm
27	1007441	Spring	8 x 7 x 32 mm
28	890216	Sprocket, oil motor	3/4 x 12 Z Ø30 mm w/ keyway.
29	1007120	Sprocket, puller	3/4"-12T.ext. Ø25
30	761171	Chain for coupling	Duplex 3/4" x 12 RL. w/ connector
31	1007538	Nipple	1/2" x 3/8" straight
32	761055	Chain connector	3/4" Duplex
33	890630	Nipple	Ø12 x Ø12 straight connector
34	890520	Hydraulic pipe	Ø12 x 2910 mm
35	890655	Pipe holder double, cpl.	3 pcs.(rear cylinder) + 5 pcs.(Oil motor) 12 mm
36	890525	Hydraulic pipe	Ø12 x 5140 mm
37	890635	Hose	1/2" x 2800 mm
38	890600	Hand pump with handle	2L
39	890610	Handle for hand pump	
40	890650	Croup	3 pcs. 3/8" and 1 pcs. 1/2"
41	-		
42	-		
43	1007724	Nipple	3/8" x Ø12
44	890627	Nipple sleeve	3/8" Ext. x 1/4" Int. f/ manometer
45	761163-5	Manometer	1/4"
46	890511	Hose	3/8" x 300 mm
47		Spring split	Ø5 x 105 mm
48	763430	Bolt	2 stk. M8 x 30 mm
49	1007544	Angle	3/8" x Ø12 mm
50	1007505	Nut	M18 x 1.5 mm
51	1007501	Venting nipple	
52	890640	Hose	3/8" x 900 mm
53	1007502	Rubber hood	
54	890634	Croup	Ø12 x Ø12 x Ø12 x Ø12



SQUARE BALE WAGON Fasterholt QB-3 Model 2003 from machine no. 3019

Pos. no.	Part no.	Name	Comment
1	890800	Wheels, cpl.	1400/65 x 16" x 14 layer, cpl.
2	890800-1	Tire	1400/65 x 16" x 14 layer
3	872915	Hose	1400 x 16"
4	872905	Rim	Drilling 161/205 x 6 hole, silver
5	890160	Hub with axle, cpl.	Drilling 161/205 x 6 hole. Left
6	890150	Hub with axle, cpl.	Drilling 161/205 x 6 hole. Right
7	890150-10	Hub house	
8	1009181-3	Hub bolt	M18 X 1,5 X 50 MM.
9	1009181-4	Hub nut	M18 x 1,5
10	890150-11	Bearing	
11	890150-12	Sealing	
12	890150-13	Bearing	
13	890150-14	Crown nut	
14	898150-15	Wheelcover	
15	890201	Trackback	Left
	890201-1	Counter nut	Left
16	890200	Trackback	Right
	890200-1	Counter nut	Right
17	890198	Steering rod	
18	890205	Spindle shaft	Ø50 x 200 mm.
19	1008101	Bushings	Ø50/55 x 50 mm.
20	1008155	Trackback	M20 x 1,0 mm.
21	890220	Locking rod	
22	1008157	Counter nut	M20 x 1,0 mm.
23		Lock split	Ø5 mm.

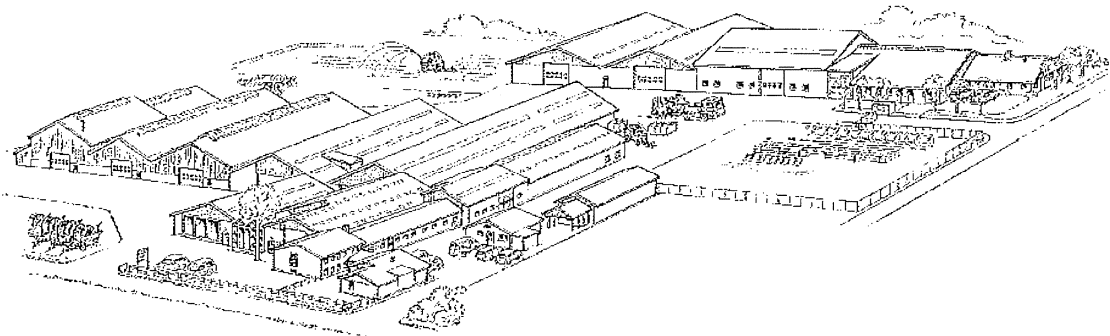


Pull with crank handle

Pos. no.	Part no.	Name	Comments
	890050	Pull cpl. with crank handle	
1	890340	Crank handle	
2	890310	Fork for cylinder	With 2 pcs. Ø9.0 holes
3	890300	Pull	
4	890320	Stop bushing	Ø40 x 40 mm
5	890325	Thread spindle	TZ 24 x 560 mm
6	890330	Thread fork	TZ 24
7	890335	Bushing	Ø30/20 mm
8		Washer	Ø8 mm
9		Locknut	M8
10		Pinol screw	M8 x 10 mm
11		Set bolt	M20 x 50 mm
12		Washer	Ø20 mm
13	890418	Split bolt	Ø25 x 110 mm
14	763600	Locknut	M20
15	763655	Steel bolt	M8 x 25 mm
16	890360	Lock split bolt	Ø20 x 125 mm
17	890361	Lock split bolt	Ø32 x 150 mm
18	763640	Tractor split	Ø6 mm

Pull with hydraulic cylinder

Pos. no.	Part no.	Name	Comments
	890060	Pull cpl. with hydraulic	
1	890305	Pull	
2	890311	Fork pull	With 2 pcs. Ø20 mm holes
3			
4	890355	Spacer bush	Ø25 x 20 mm
5	763640	Tractor split	Ø6 mm
6		Washer	Ø20 mm
7	763600	Locknut	M20
8		Set bolt	M20 x 50 mm
9	763850	Steel bolt	M20 x 110 mm
10	890350	Cylinder with Ø20 mm ends	Ø32/20 x 200 mm Before 2003
10	890351	Cylinder with Ø20 mm ends	Ø40/25 x 250 mm After 2003
11	890361	Lock split bolt	Ø32 x 150 mm
12	890360	Lock split bolt	Ø20 x 125 mm
13	890418	Split bolt	Ø25 x 110 mm
14	890419	Split bolt	Ø20 x 100 mm
15		Set bolt	M16 x 50 mm
16		Nut	M16
17	890620	Nipple	3/8" x 3/8"
18	551013	Counter/ throttle valve	3/8"



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