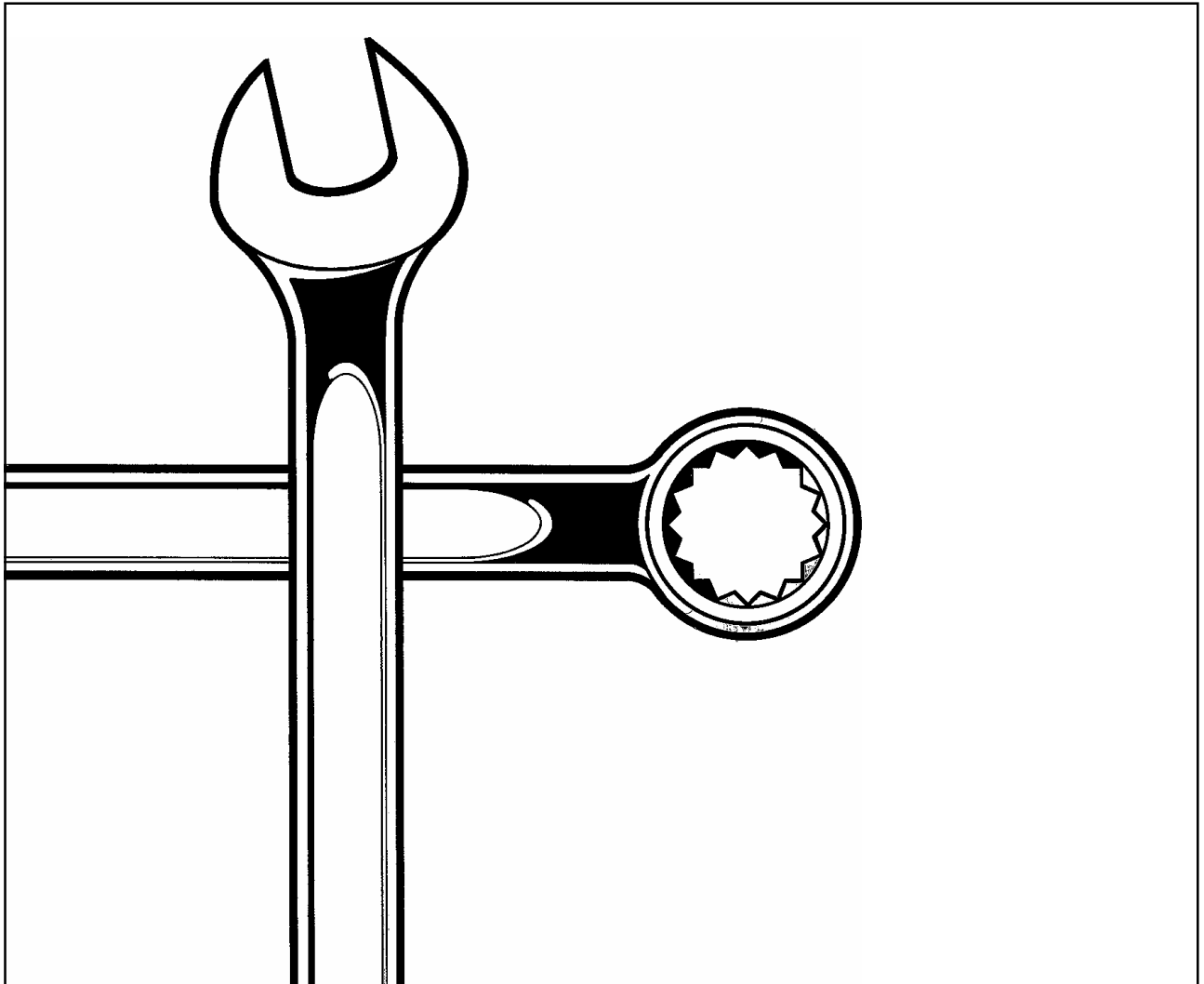


SVEDALA COMPACTION AND PAVING

DYNAPAC CC 232/232C WORKSHOP MANUAL SPLIT DRUM

W1024EN5



SVEDALA

 **DYNAPAC**

Svedala Compaction Equipment AB

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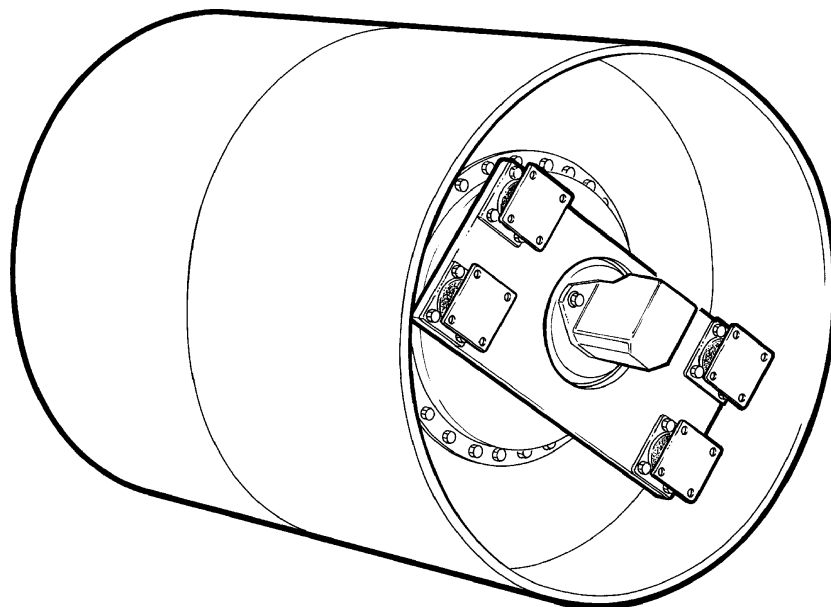
Telefax +46 455 627 30

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**Vibratory and Combination Rollers
CC 232/232C**

**Work Shop Manual, Split Drum
W1024EN5, 97-10-01**

Valid for Component P/N: 35 93 57



General advice

- Make yourself familiar with the equipment of the machine.
- Only operate the machine if you are completely familiar with the operating and control elements as well as the functioning of the machine.
- Use your safety equipment like helmet, safety shoes and hearing protection.
- Make yourself familiar with your working field.
- Only operate the machine for its intended purpose.

Please observe the guidelines of the machine manufacturer and safety manual.



Before starting

- Study and understand the operating instructions before starting.
- Check the machine for any serious faults.
- Do not operate the machine with defective instruments, warning lights or control elements.
- All safety devices must be in a secure position.
- Do not carry loose objects or secure them to the machine.
- Keep oily and inflammable material away from the machine.
- Before entering the driver's cab, check if persons or obstacles are in the way of or underneath the machine.
- Be careful when entering the driver's cab, use the steps.
- Adjust your seat before starting.

Start


- When starting, all operating levers must be in "neutral position".
- Only start the machine from the driver's seat.
- Check the indicating instruments after start to ensure that all functions are in order.
- Do not leave the machine unattended when the engine is running.
- When starting with battery connection cables, connect plus to plus and minus to minus.
- Disconnect the earth (negative) first. Connect it last.

Warning



Exhaust fumes are dangerous. Ensure sufficient fresh air when starting in closed rooms!

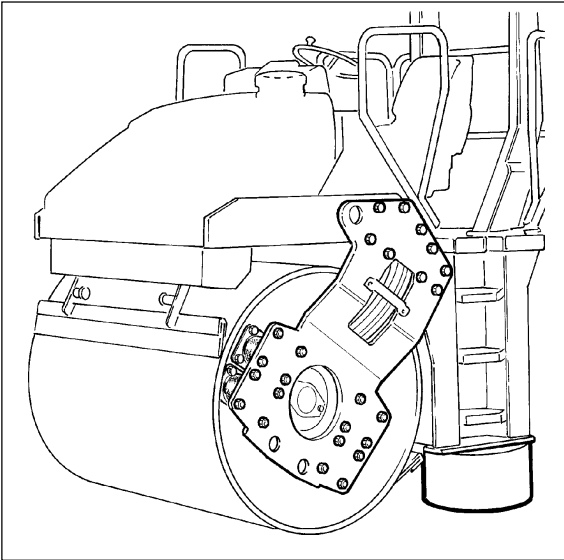
Hydraulic equipment

1. Hydraulic equipment is under high pressure.
 Fluids (fuel, hydraulic oil) which escape under high pressure can penetrate the skin and cause serious injury.
Therefore immediately consult a doctor if such injury occurs. Serious infection may otherwise be caused.
2. When searching for leaks use appropriate means because of the danger of accidents.
3. Before working on hydraulic equipment, depressurize to zero and lower the working arms of the machine.
4. When working on hydraulic equipment, switch off the engine and secure roller against rolling away (e. g. parking brake)!
5. When connecting hydraulic cylinders and motor, pay attention to correct connection of flexible hydraulic hoses.
6. The resulting functions will be vice versa if the ports are interchanged (e. g. forward or reverse), creating danger of accidents!
7. Check flexible hydraulic hoses regularly and replace them in case of damage or wear!
The new hose or pipe must comply with the technical requirements of the machine manufacturer!

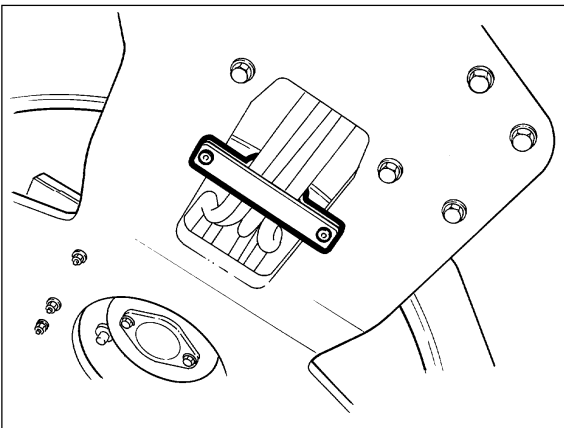
Orderly disposal or recycling of oil, fuel and filters!

Dismantling the drum from the machine

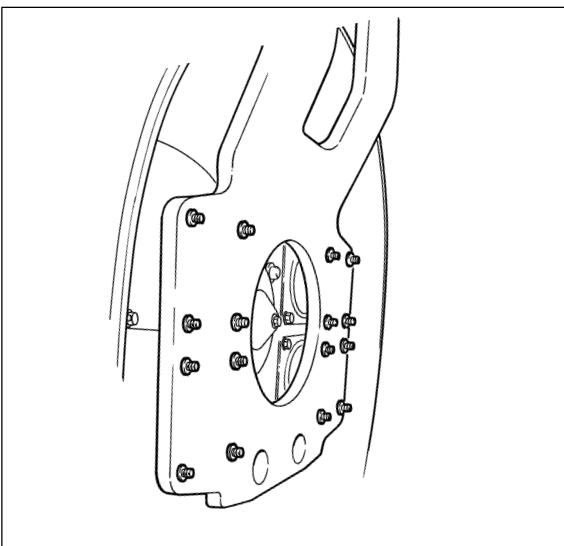
P/N 35 93 57



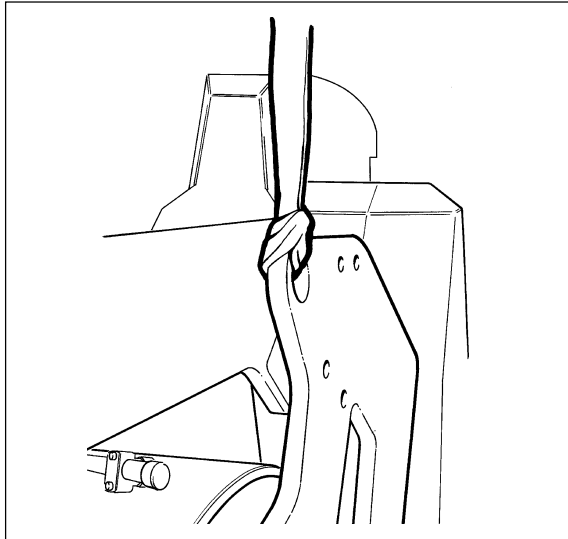
1. Block up the roller on both sides, so that the rubber elements become “neutral”.



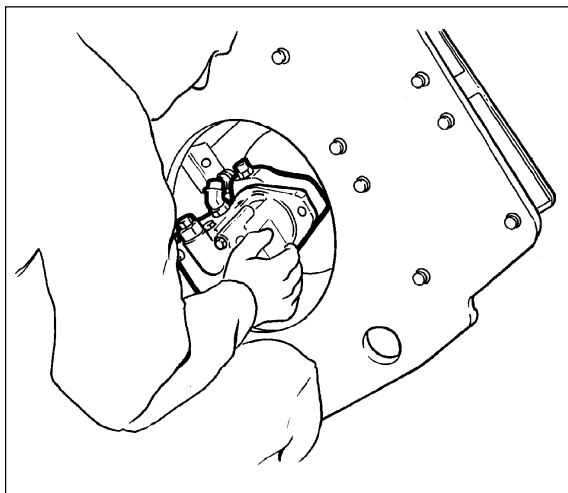
2. Release the hose holder on both sides.



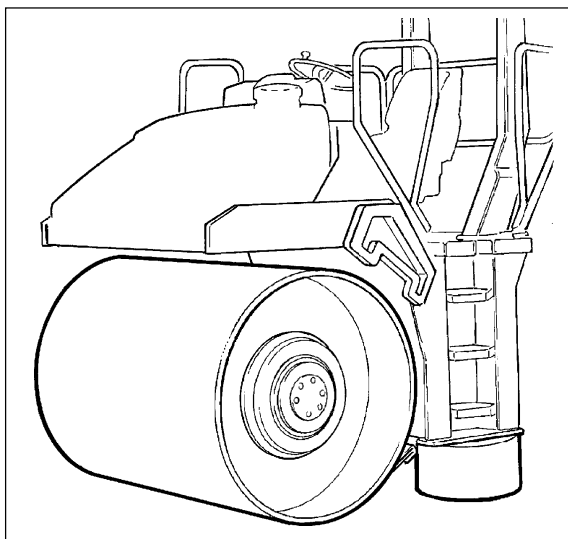
3. Loosen the bolts of the rubber elements on both sides.



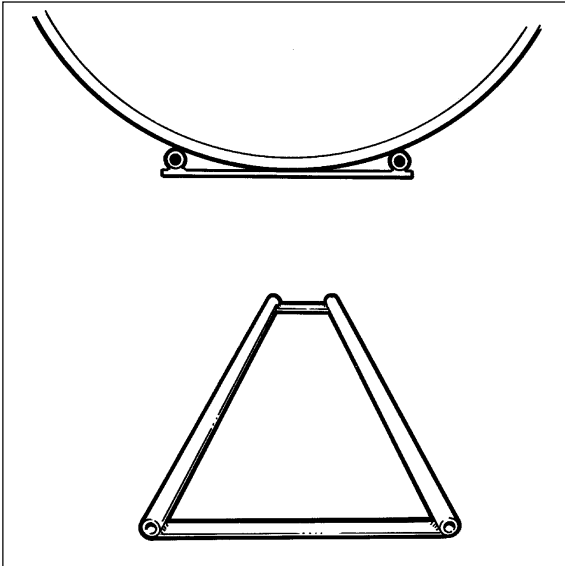
4. Secure lifting straps to the left fork, release the fork from the frame (observe the shims) and lift the fork away. Repeat the operation on the right side.
5. Disconnect hoses from the hydraulic motors and plug both the hoses as well as the motor ports.



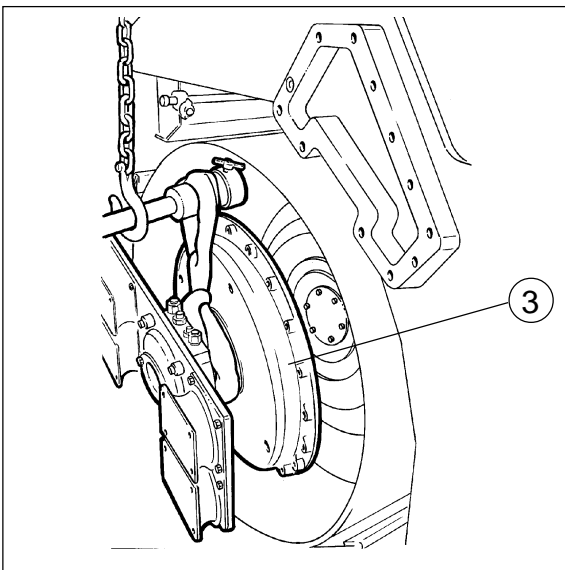
6. Remove the vibration motor, motor bracket and splines sleeve.



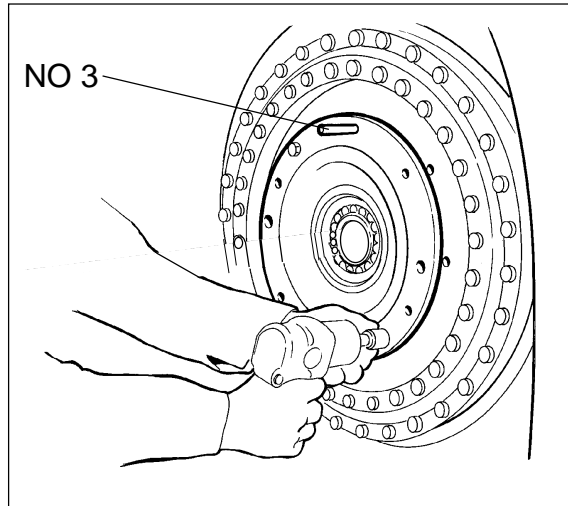
7. Remove the scraper, including the lights board, and roll the drum out from the machine.



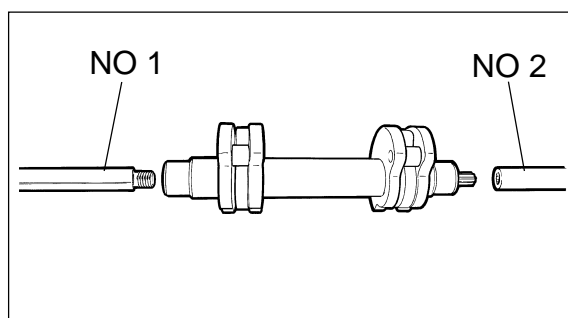
1. Place the drum between two pipes that are joined together by steel bars, see page 17.



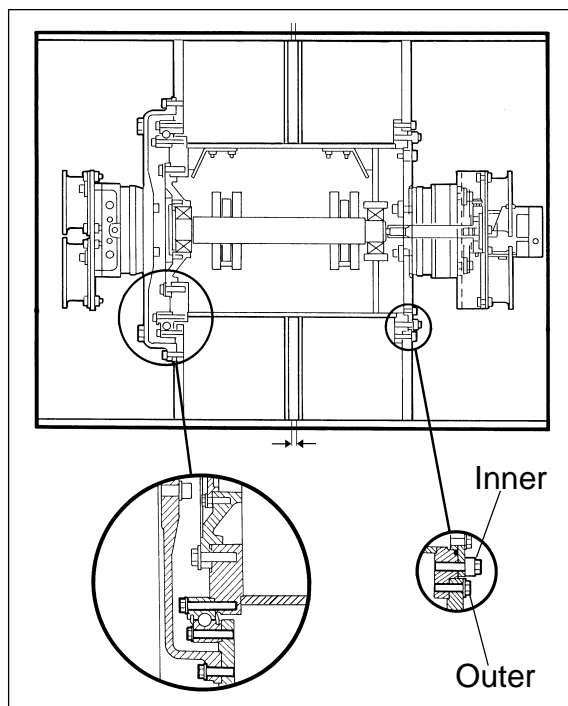
2. Mark the drive disc, item 3, and the cover.
3. Unscrew the inner bolts, item 22, see page 10, and lift away the carrier assembly (drive disc, item 3, propulsion motor, mounting plate and rubber elements) on the drive side.



4. Unscrew the bolts, item 26, see page 10 and remove the bearing cover, item 5.
5. Unscrew the bolts, item 31, see page 10 and fit two guide pins, NO 3, page 17.



6. Place a pipe (inner diameter 25 mm), NO 2, on the splines spindle of the eccentric shaft, right side. On the left side, screw in the pipe, NO 1, which has an M20 bolt welded to it.



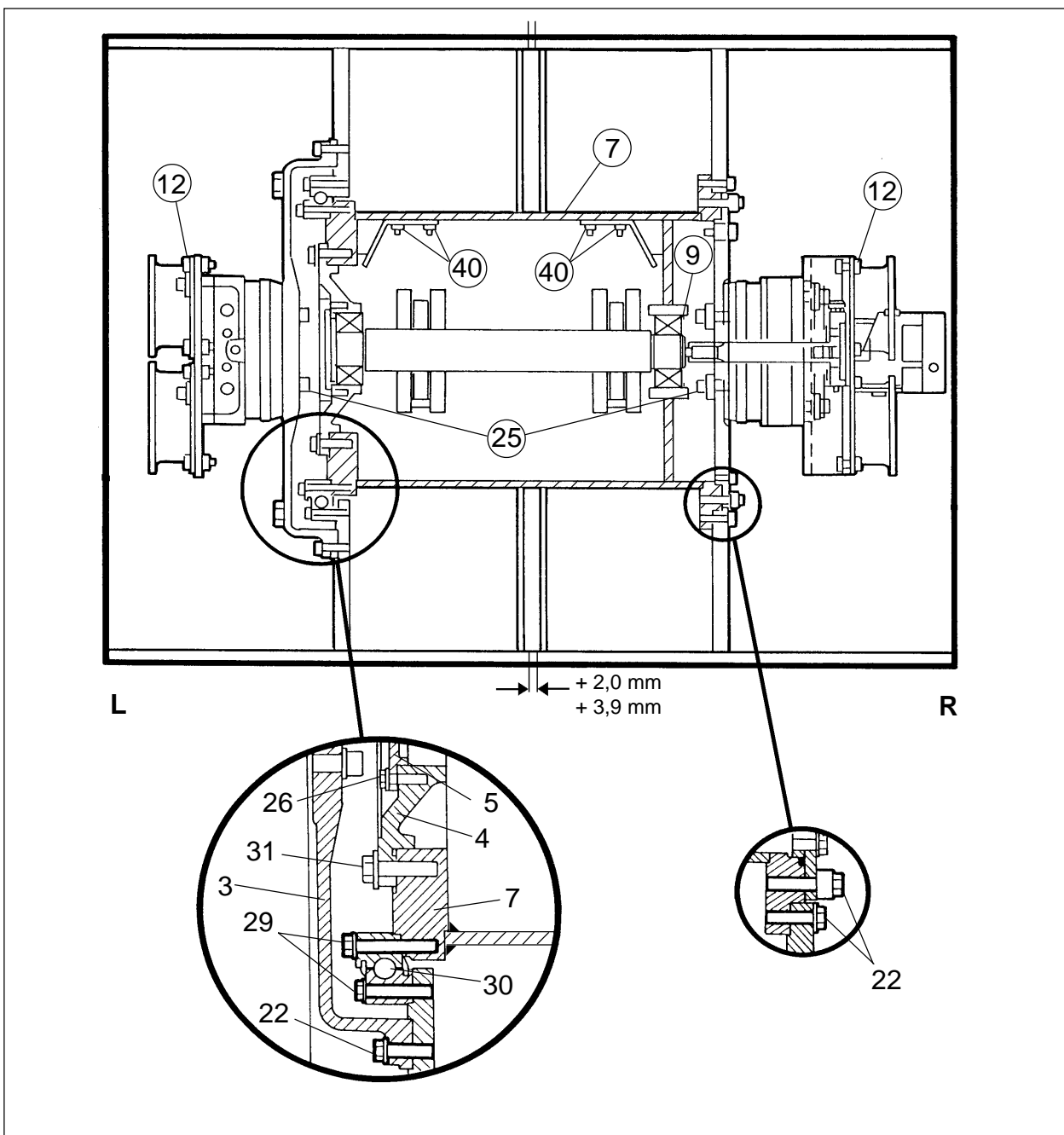
7. From the vibrating motor side, carefully tap out the eccentric shaft together with the left bearing housing. Carefully pull out the bearing housing (with eccentric shaft) with the aid of extractor screws. The bearing housing can now be easily removed from the shaft.

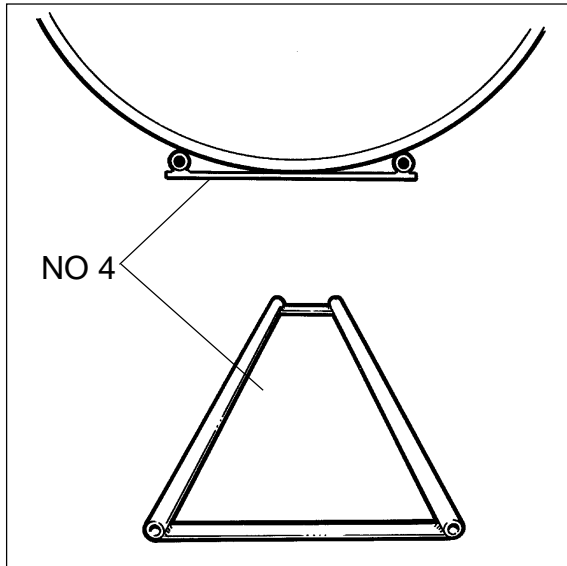
Dismantling the drum halves

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Pos.	Torque, oiled screws
26	40 Nm (30 lbf ft)
12/22	70 Nm (52 lbf ft)
40	8 Nm (6 lbf ft)
31	169 Nm (124 lbf ft)
29	98 Nm (72 lbf ft)
25	290 Nm (213 lbf ft)

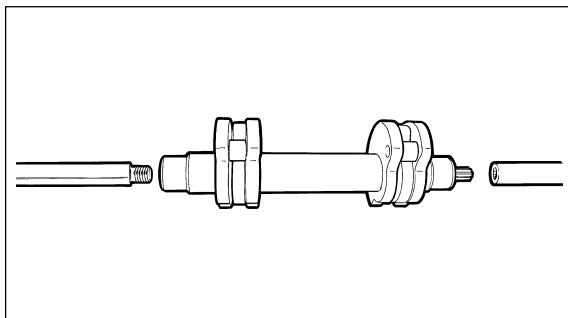
1. Unscrew the bolts, item 29, and lift away the bearing, item 30, from the drum.
2. Separate the drum halves and if necessary loosen the outer bolts, item 22, to be able to remove the cartridge, item 7.



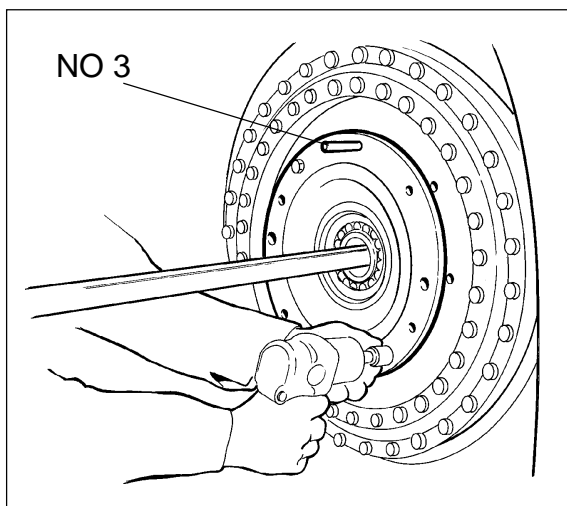


Assembling is made in the reverse order.

1. Place the drum halves on the tool NO 4 (see page 17) with the cartridge, item 7, fitted. Secure with Loctite 245. Tightening torque is 169 Nm (124 lbf ft).
2. Ensure that there is clearance between the drum halves; max. 3.9 mm, min. 2.0 mm. If less clearance grind the shell edges.

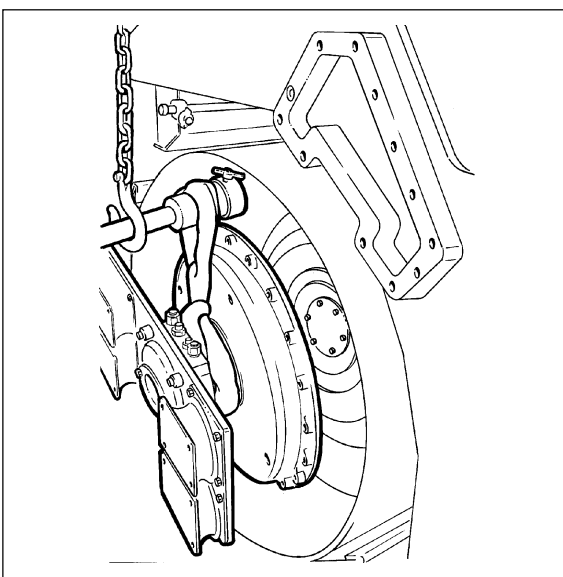
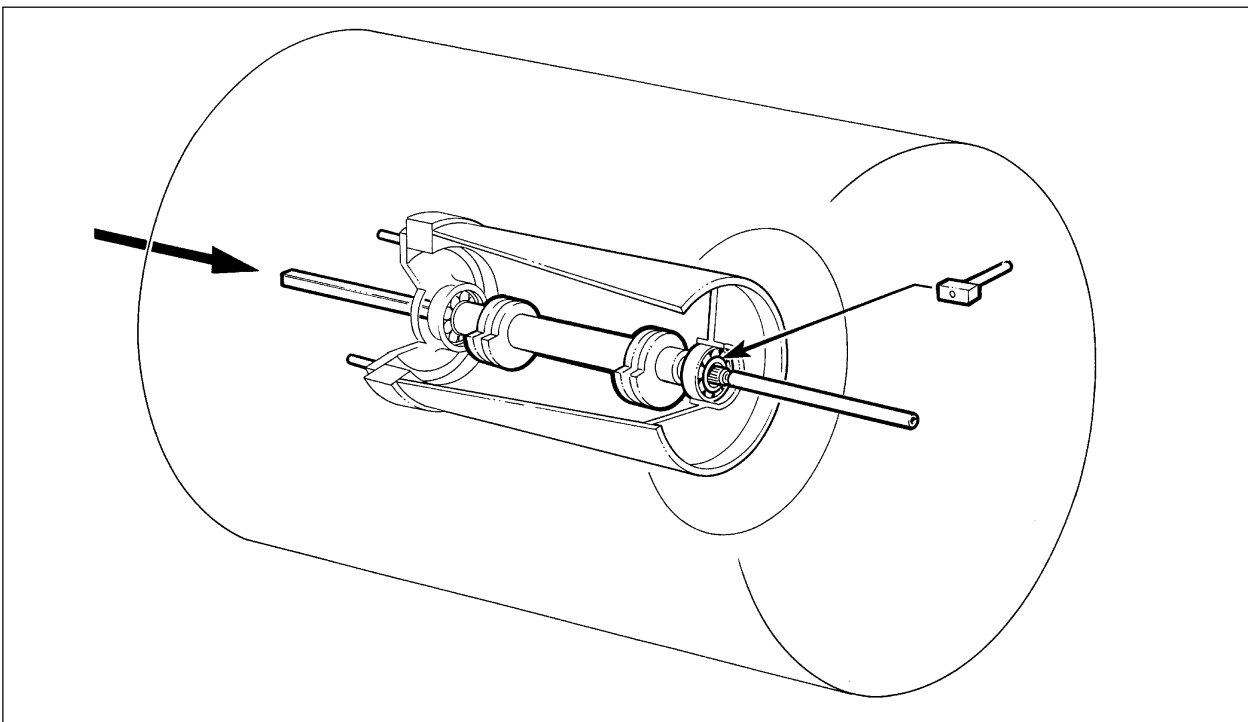


3. Mount the eccentric bearing in the cartridge on the vibrating side. N.B. Do not forget the retainer ring, item 9, page 10.

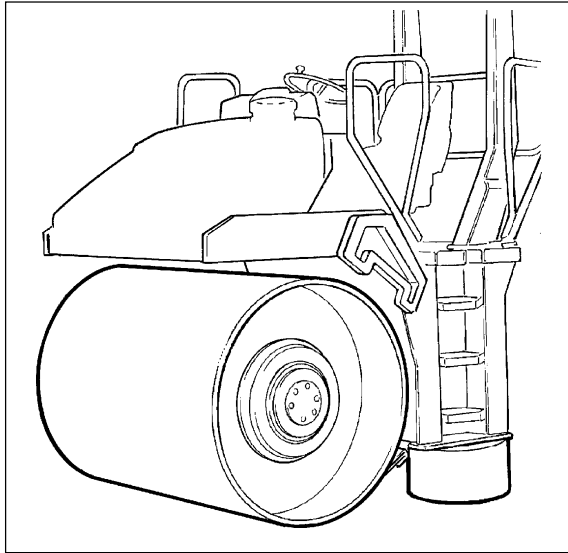


4. Mount the bearing and bearing housing on the shaft on the drive side.
5. Fit two stud bolts, NO 3, as illustrated.

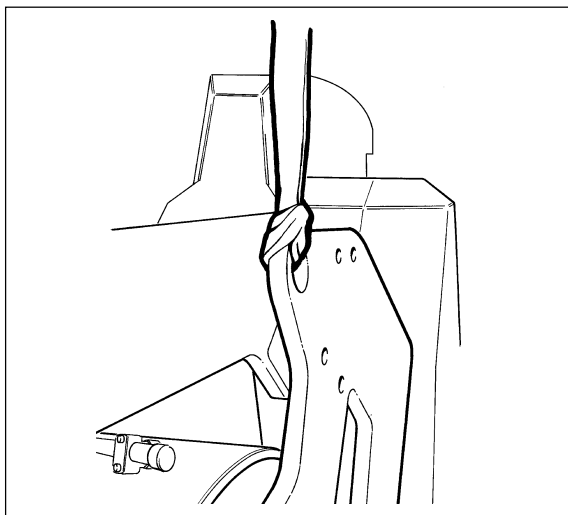
6. Lift the shaft into the cartridge using tools 1 and 2. Tap with a hammer on the inner ring of the bearing to align it.
7. Fit the bolts, item 31, page 10, tightening torque 169 Nm (124 lbf ft).
8. Fit the bearing cover, item 5, with O-ring, tightening torque 40 Nm (30 lbf ft).



9. Mount the bearing, item 30, so that the lubricating nipple faces towards the mark 0 on the drum cover. Secure with Loctite 245. The tightening torque is 169 Nm (124 lbf ft).
10. Mount the carrier assembly on both sides. Use Loctite 245, tightening torque 70 Nm (52 lbf ft). N.B. Check to ensure that the lubricating nipple faces towards the mark 0 on the drum (applies to the large bearing, item 30).

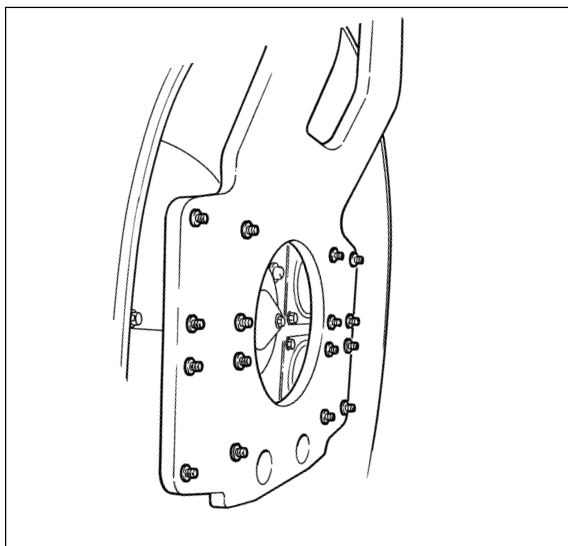


1. Place the drum in position on the machine.



2. Mount the left and right forks and tighten the bolts for the rubber elements to 70 Nm (52 lbf ft).

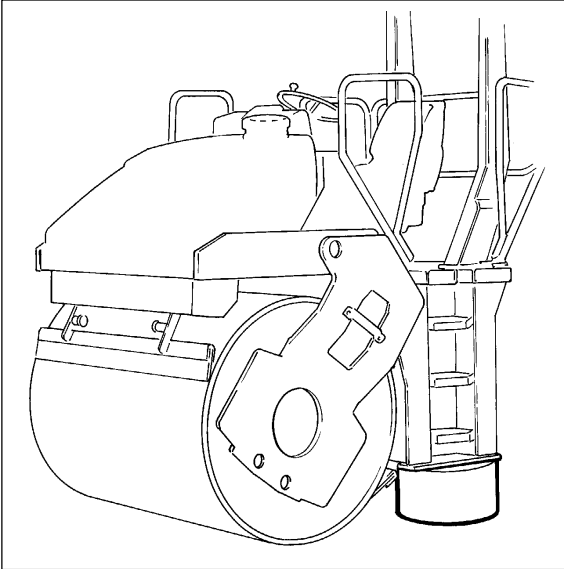
3. Check that the drums are in line.



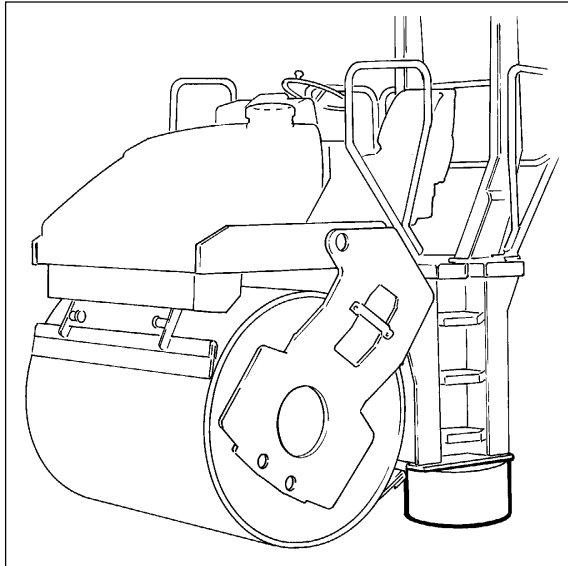
4. Check the clearance between frame and fork. The lowest placed rubber elements should be under 0-1 mm pressure. Use shims equal to the clearance minus 0-1 mm, see spare parts catalogue.
5. Tighten the bolts in the frame to 169 Nm (124 lbf ft).

Mounting the drum on the machine, contd.

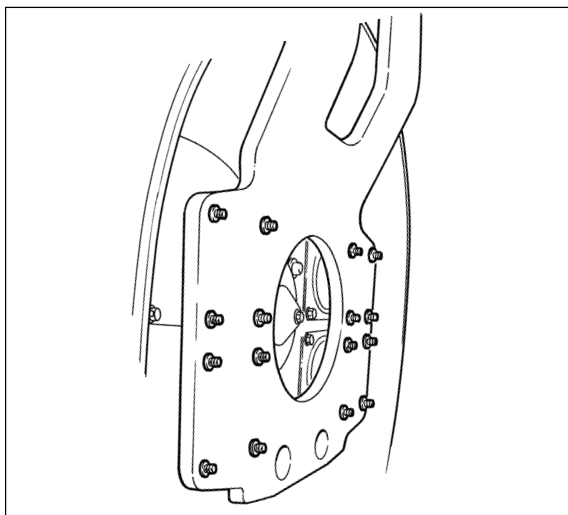
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6. Fit the scraper and lights board. Adjust the scraper so that it is aligned with the drum.



1. Block up the machine by the drum on the side where you intend to change the element, so that the elements become "neutral".



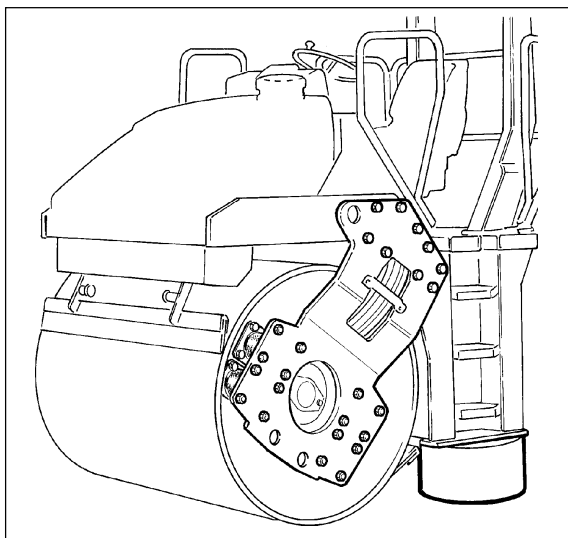
2. Unscrew and remove the bolts from the elements.

3. Carefully loosen the bolts holding the fork to the frame to give a little play.

4. Change the rubber elements.

5. Tighten the bolts of the rubber elements to 70 Nm (52 lbf ft).

6. Check pre-tensioning of the rubber elements. Check the clearance between frame and fork. Pre-tensioning should be 0-1 mm for the lowest placed rubber elements. Relieve the elements (crane). Use shims equal to the clearance, frame - fork, minus 0-1 mm.



7. Tighten the bolts in the frame to 169 Nm (124 lbf ft).

Tightening torque in Nm and (lbf.ft), in brackets, for oiled bolts when using torque wrench. Use SHELL ONDINA 32 oil alt. SHELL RETINAX 15.

M	STRENGTH CLASS					
	8.8 (Grade 5)		10.9 (Grade 8)		12.9 (Grade -)	
Thread						
M4	2,5	(1.8)	3,4	(2.5)	4,2	(3.1)
M5	4,9	(3.6)	7,0	(5.2)	8,3	(6.1)
M6	8,4	(6.2)	12	(8.9)	14,6	(10.8)
M8	21	(15.5)	28	(20.7)	34	(25.1)
M10	40	(29.5)	56	(41.3)	68	(50.2)
M12	70	(51.6)	98	(72.3)	117	(86.3)
M16	169	(124.7)	240	(177)	290	(213.9)
M20	330	(243.4)	470	(346.7)	560	(413.1)
M24	570	(420.4)	800	(590.1)	960	(708.1)
M30	1130	(833.5)	1580	(1165.4)	1900	(1401.4)
M36	1960	(1445.7)	2800	(2065.3)	3300	(2434.1)

UNC	STRENGTH CLASS					
	8.8 (Grade 5)		10.9 (Grade 8)		12.9 (Grade -)	
Thread						
1/4"	9,5	(7)	12,9	(9.5)	16,3	(12)
5/16"	18,9	(13.9)	27	(19.9)	33	(24.3)
3/8"	33	(24.3)	46	(33.9)	58	(42.8)
7/16"	52	(38.4)	75	(55.3)	93	(68.6)
1/2"	80	(59)	113	(83.3)	140	(103.3)
9/16"	114	(84.1)	161	(118.7)	200	(147.5)
5/8"	157	(115.8)	220	(168.2)	280	(206.5)
3/4"	280	(206.5)	390	(287.7)	490	(361.4)
7/8"	440	(324.5)	630	(464.7)	780	(575.3)
1"	660	(486.8)	940	(693.3)	1170	(863)
1 1/8"	940	(693.3)	1330	(981)	1660	(1224.4)
1 1/4"	1320	(973.3)	1860	(1371.9)	2300	(1696.5)
1 3/8"	1740	(1283.2)	2500	(1844)	3100	(2286.6)
1 1/2"	2300	(1696.5)	3200	(2360.3)	4000	(2950.4)

