

# 762C Harvester Head Operator and Maintenance Manual

Operator's manual  
762C Harvester Head  
(EJ0762C001630-)

F069797 Issue 1.6.2005 (ENGLISH)

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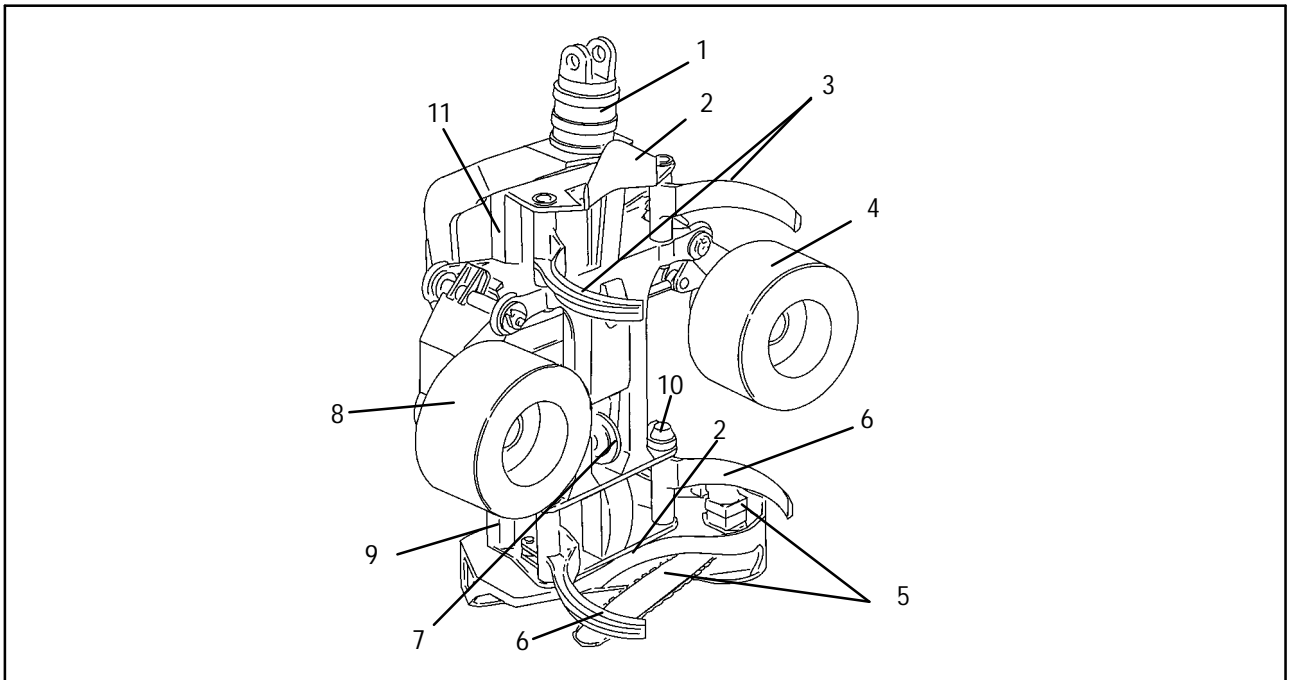
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### 1.3 Main components of head



1. Rotator.
2. Fixed delimiting knife.
3. Moving delimiting knives, upper.
4. Left feed roller.
5. Saw bar with hydraulic motor.
6. Moving delimiting knives, lower.
7. Length measurement equipment.
8. Right feed roller.
9. Serial number of harvester head.
10. Diameter sensors on lower delimiting knives.
11. Valve block and controls for head functions.

- Take care to remove any snow or ice, twigs and bark from the area around the cutting equipment and the length measurement wheel.
- Never adjust hydraulic pressure without a manometer.
- Inspect the condition of the saw and its mountings, and check that there is no leakage or other faults.
- When working with the saw chain, always make sure that the engine is turned off. Use protective gloves. Always remove the saw chain when adjusting or servicing the saw unit.
- Watch out for colour marking dye streams or stump treatment fluid streams during testing and using the machine.
- The head may be repaired and maintained only by trained personnel or an authorized service workshop with proper tools and hoisting device.
- If it is absolutely necessary to remain in the vicinity of the head while the engine is running, particularly where a number of people are carrying out fault-finding procedures on the machine, for example, the following steps must always be taken:
  - Remove the connectors Y481, Y487, Y484 and Y470A for HHM or MFM.

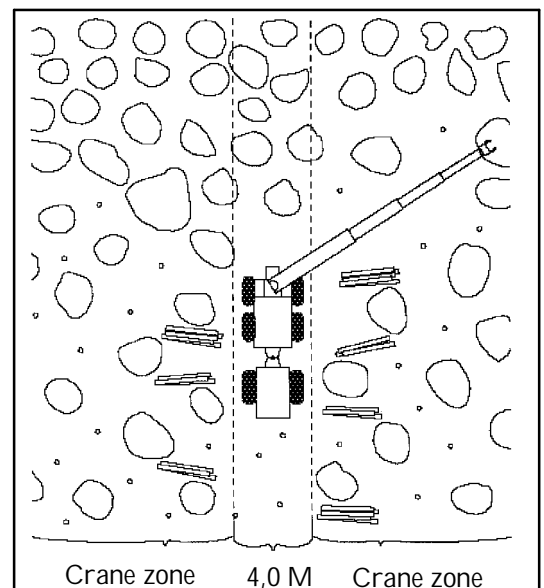
## 5.6 Working technique for thinning

### 5.6.1 Thinning with a harvester alone

1. First, prepare the logging road.  
Delimb the trees above the logging road, which will allow you to leave the branches on the road.  
Drop branches on the roots of trees left standing to provide extra protection. If necessary, use the felling head to spread the branches evenly. The width of the logging road must be appr. four meters.
2. Decide where to stack the stems. Process the trees over the road and lay the stems on the opposite side.  
To minimise unnecessary movement of the crane boom you should fell trees alternatively on the right and left sides.
3. Choose the felling direction on the basis of the timber classification, since stems are often difficult to move after felling.
4. If possible, start with pulpwood so that this is beneath the main classification, as this will simplify forwarding.
5. It is often a good idea to fell slender trees at the outer limits of the crane boom reach towards the working track, except if the twigs are needed on the road.

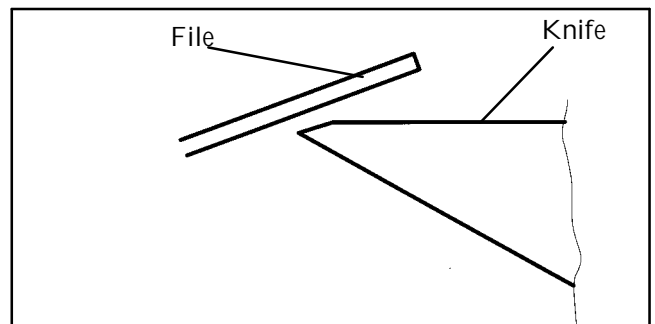
If possible, process one tree species first, followed by the next.

**NOTE!** Always bear in mind the timber classification before felling!



## 5.9.2 Delimiting

Problem	Action
S Poor delimiting performance from head.	<ul style="list-style-type: none"> <li>S Delimiting knives incorrectly sharpened (blunt edge).</li> <li>S Delimiting knife pressure too low during feeding.</li> <li>S Branches too large for head.</li> </ul>
S Delimiting knives dig into stem, head jams.	<ul style="list-style-type: none"> <li>S The pressure of the delimiting knives is too high or there is not enough adjusting edge.</li> <li>S Adjust the edge to a suitable level by filing outwards from inside.</li> </ul>



Remember! Delimiting knives can never be too sharp. These depend on the adjusting edge.

S Stem slides out of head during feeding.	<ul style="list-style-type: none"> <li>S Pulse open time at start is too long, reduce the time programmed into computer.</li> <li>S If problem only occurs on the first log when processing large diameter stems, but disappears with smaller diameters, try following the stem with the head during feeding.</li> </ul>
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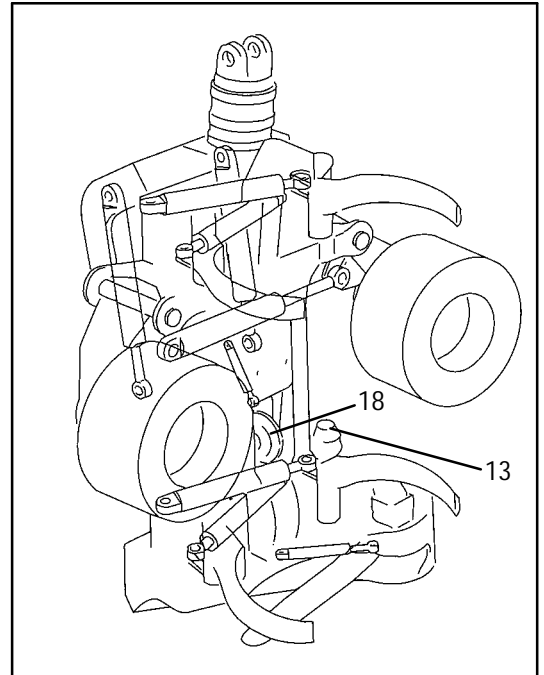
## 6.7 Weekly maintenance or after every 50 hours

Grease:

13. Grease the diameter sensors with cold-resistant and water-resistant grease (LE 4701; Lubrication Engineers, for instance) (2 nipples).

## 6.8 Service after every 250 hours

14. Check that the mountings have not become loose.
15. Check that the hydraulic hoses have not become damaged.
16. Check that the saw unit has not become damaged or cracked.
17. Check that the saw unit does not have any leaks.



## 6.9 After every 950 hours or with service

Grease:

18. Bearing for measurement roller.

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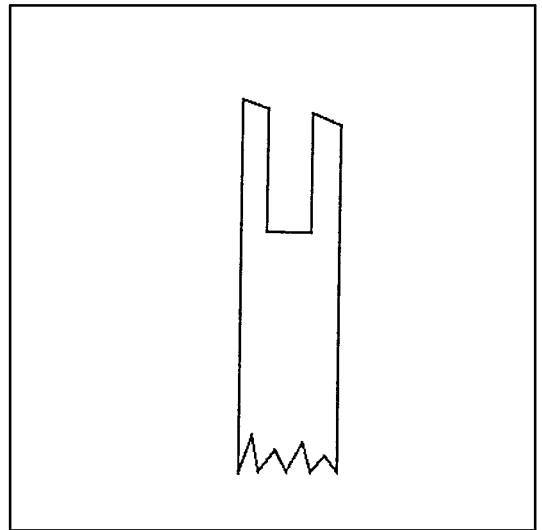
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### 3. Worn saw bar

Always check the rail of the bar with regard to oblique wear each time the chain is changed.

An unevenly worn bar should be turned over, or replaced by another until the original one can be adjusted.

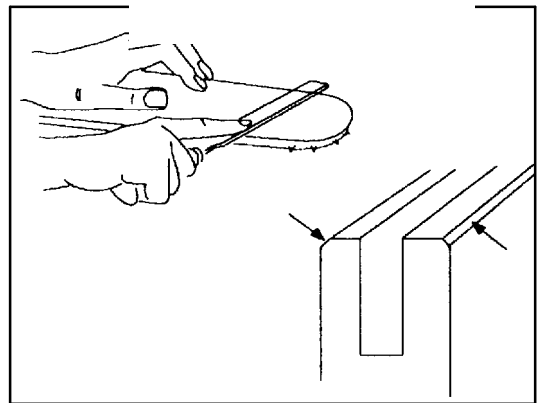
Groove rails should be ground at right angles at a suitable opportunity.



### Remove burrs from the rails

This is necessary to minimize the risk of cracks.

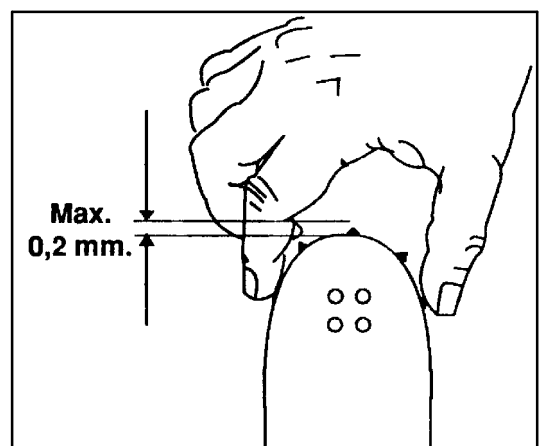
1. Remove burrs with a file. File from the inside and outwards.
2. Then make a 45° chamfer.



### 6.12.10 Checking and replacement of chain idler

The chain idler should be replaced when its play is about 0.2 mm.

- Press out the rivets and remove the idler.
- Position a new chain idler pack on the tip of the saw bar and pull down the idler into position.
- Insert new rivets and peen them over on both sides. Ensure that the idler runs freely.

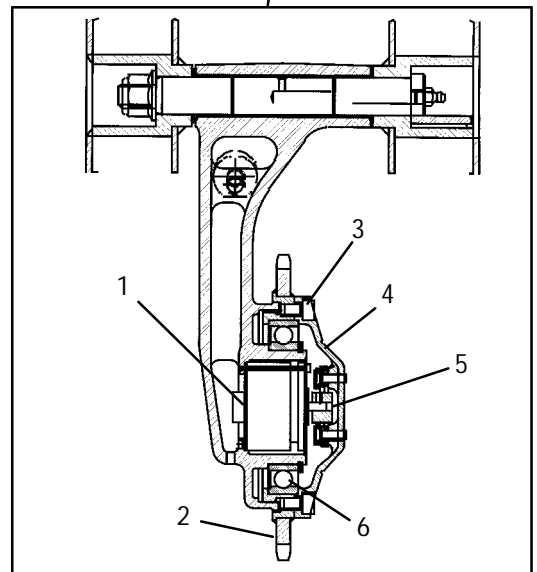
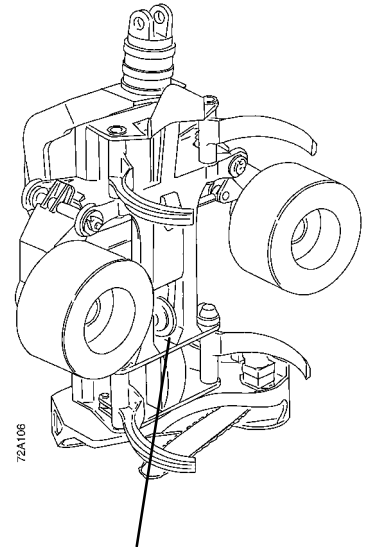


## 6.16 Length measuring equipment

The pulse generator is driven from the measuring wheel via a carrier.

### 1. Removing the encoder

- Remove the four fastening screws (3) and pull off the cover (4).
- Loosen the stop screws and pull off the carrier.
- Remove the three screws holding the pulse generator (1).
- Pull out the pulse generator (1) and disconnect the cables from the screw terminals on the back of the pulse generator.



- 60. Pump, saw chain lubrication
- 61. Tank, saw chain lubrication
- 62. Saw bar holder, saw chain lubrication
- 63. Rotator
- 64. Pressure relief valves, rotator
- 65. Control valve, rotator
- 66. Floating mode valve, rotator
- 68. Pressure reducing valve for automatic saw chain tensioner 2,0...2,5 MPa.
- 69. Pressure gauge port for 68.
- 70. Brake cylinders, chain tensioner
- 71. Tensioning cylinder, chain tensioner
- 72. Choke valve, 8,0 MPa.
- 73. Solenoid valve, paint A.
- 74. Solenoid valve, paint B.
- 75. Pump, paint A.
- 76. Pump, paint B.
- 77. Tank, paint A.
- 78. Tank, paint B.
- 79. Nozzle, paint A.
- 80. Nozzle, paint B.
- 81. Stump treatment

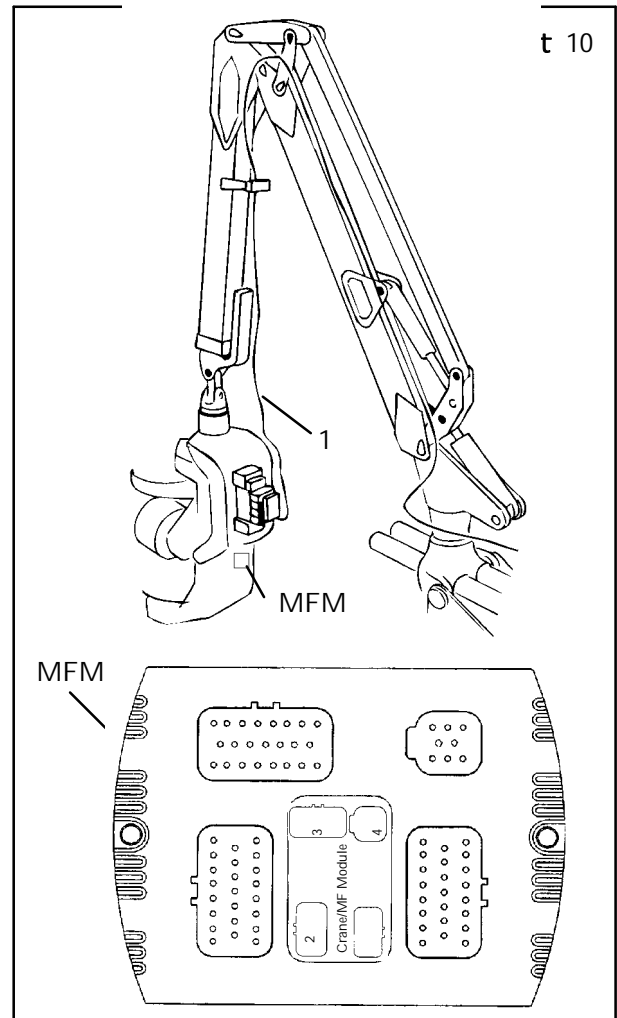
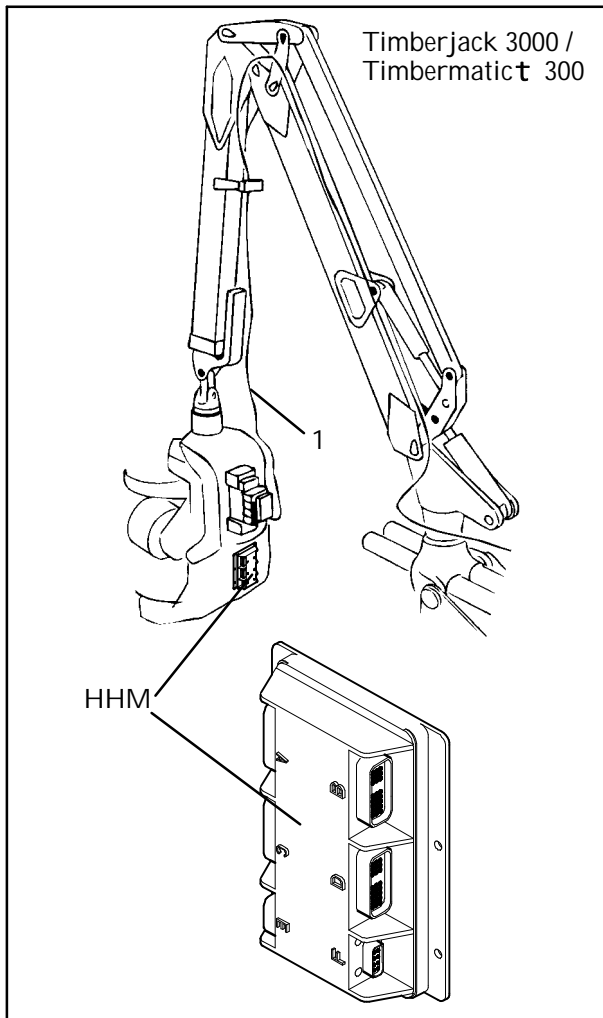
## 8. Electrical System

This chapter deals with the electric components of the harvester head and the electric diagrams.

Also refer to the instructions in the basic machine and the control system manual.

The control system components are capable of communicating via a CAN bus (1). For more information, see the control system manual.

The harvester head modules HHM and MFM are situated on the harvester head and control the signals to and from the head.



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Item	Description	Diagram Location	Item	Description	Diagram Location
A13	HHM	100L Harvester head	Y483	Feed rollers open	105T Harvester head
CB	40-pole connector	100J HHM	Y484	Saw motor	117F Harvester head
CC	40-pole connector	116J HHM	Y485	Rotator release *)	110F Harvester head
Y408	Rotator, clockwise **)	101F Harvester head	Y487	Tilt down	112T Harvester head
Y409	Rotator, counterclockwise **)	102F Harvester head	Y487A	Float mode, tilt	107T Harvester head
Y438	Color B *)	107F Harvester head	Y490	Forward feed	104F Harvester head
Y456	Lower delimiting knives open	101T Harvester head	Y491	Reverse feed	105F Harvester head
Y457	Lower delimiting knives close	102T Harvester head	Y492	Upper delimiting knives close	113T Harvester head
Y466	Color C *)	108T Harvester head	Y493	Upper delimiting knives open	108F Harvester head
Y481	Tilt, up	110T Harvester head			
Y482	Feed rollers close	104T Harvester head			

\*) optional

\*\*) see group 8.3

#### 4. Problems

If the color marking does not work, check the strainers to ensure that they are clean.

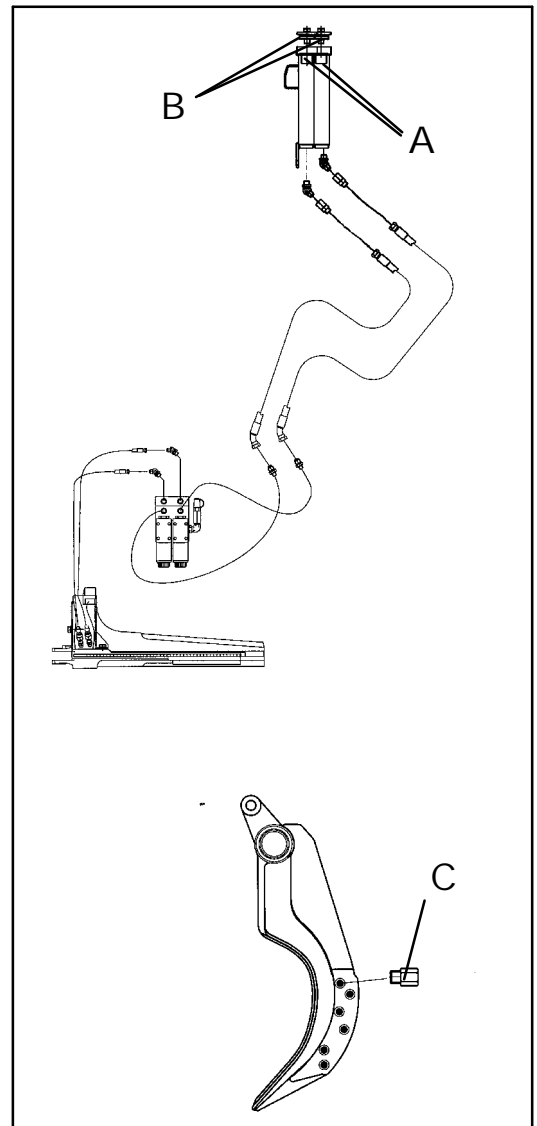
Also check to see if any foreign matter is present in the throttle valves of the delimiting knives. Finally, dismantle the nozzles and clean them.

**NOTE!** Be careful when dismantling the nozzles. A spring and a ball lie under the nozzle and they can fall out if the harvester head is standing upright. Therefore, allow the head to rest firmly on the ground before beginning to dismantle.

#### 5. When not in use

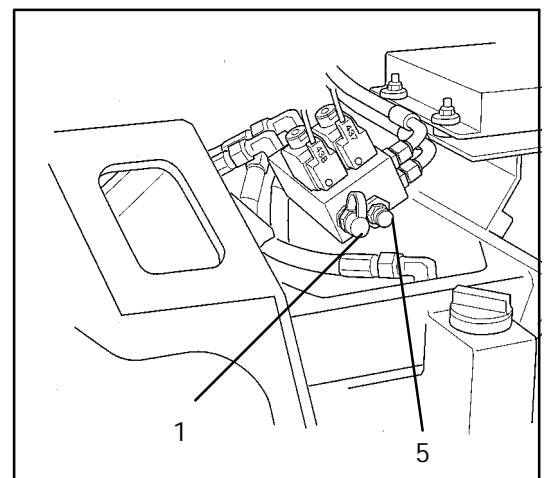
When standing still for a longer period the color tanks should be filled full with clear test drive fluid or diesel oil. Then run the system to flush out all color.

- A Check valves
- B Strainer under the filler cap
- C Nozzle



#### 6. Checking the pressure of color marking

1. Connect the manometer to the measurement socket.
2. Start up the machine.
3. Actuate the harvester head close. Hold it down.
4. Read off the pressure on the manometer.
5. Adjust the pressure to 8.0 MPa if necessary.



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