



MTZ 1220/1221 : Updates to manual concerning dual wheels

Annotation:

This operation bulletin contains updated information regarding mounting of rear wheel hubs on the rear axle shaft of the tractor.

Content of changes:

1. Subsection “Rear wheel track formation” shall be introduced instead of subsection “Rear wheel track setting” and subsection “Track setting when twinning rear wheels” at page 159.

The information available:

Rear wheel track setting

1. Jack up rear part of the tractor until wheels take off the ground.
2. Remove nuts (1) and the wheels.
3. Release tighten bolts (2) of upper and lower inserts (3) of the wheel hub by 2 to 3 revolutions.
4. By means of four dismantling bolts screwed into the upper and the lower inserts (two bolts for each insert) move inserts 3 out of the wheel hub in order to release the cone clamp and the wheel hub to have a possibility to move the wheel hub.
5. Move the wheel hub along the axle shaft to achieve the required track “L” (refer to the table to set the track by changing distance “K” from the axle shaft end to the insert end).
6. Remove the dismantling bolts and tighten the wheel hub securing bolts.
7. Mount the wheel and repeat the operations for the opposite rear wheel.

Track setting when twinning rear wheels

Mount hubs of the outer and rear wheels (main and auxiliary) with respect to the rear axle shaft and wheel disks in accordance with table K-2.

Rear wheel track is adjusted continuously.

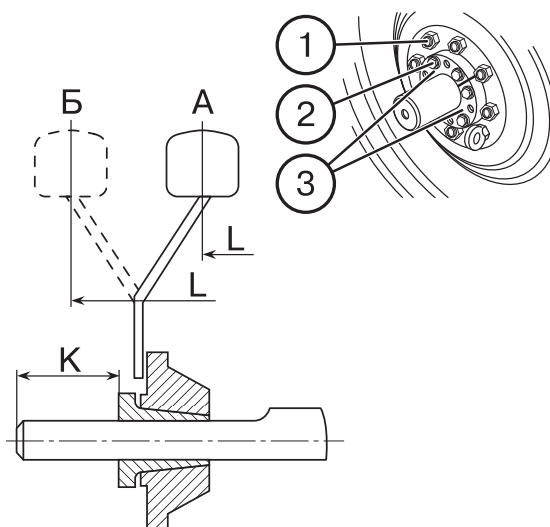


Fig. K-2.

Table K-2

Track «L», mm		
Distance «K», mm (for tires 11,2R42)	Wheel mounting diagram	
	«A»	«Б»
245	1420	—
205	1500	—
155	1600	—
55	1800	—
5	1900	—
245	—	1950
220	—	2000
170	—	2100

Track «L», mm		
Distance «K», mm (for tires 18,4R38)	Wheel mounting diagram	
	«A»	«Б»
1650	133	-
1800	58	-
200	-	222
2150	-	147

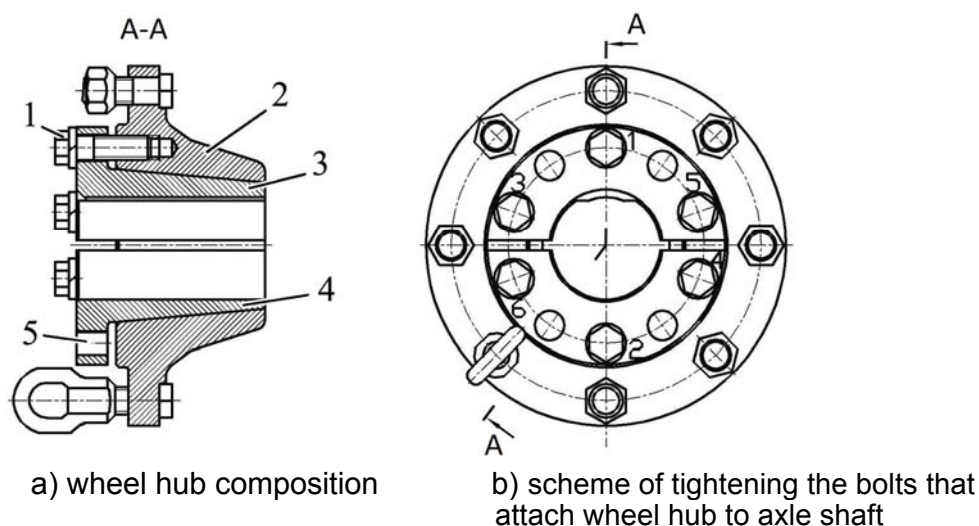
Shall be replaced with:

Rear wheel track formation

Tractor rear wheels are mounted on the wheel hubs which consist of split cone inserts 3 and 4 (figure 1) and hub housing 2.

When mounting the wheel nub on the axle shaft tighten bolts 1 with a torque of 360 to 380 Nm in a sequence of 1, 2, 3, 4, 5, 6 (figure 1b). After you have mounted the wheel on the wheel hub tighten bolts 1 with a torque of 360 to 400 Nm in a sequence of 1, 2, 3, 4, 5, 6.

ATTENTION: AFTER THE BOLTS ARE TIGHTENED MAKE SURE THE ENDS OF THE UPPER AND THE LOWER INSERTS JUT WITH RESPECT TO EACH OTHER BY NO MORE THAN 2 MM!



1 – tie bolts; 2 – hub group housing; 3 – upper insert; 4 – lower insert; 5 – dismounting holes.

Figure 1 – Rear wheel hub group

The rear wheel track with the wheels of basic configuration is changed by moving the hub together with the wheel over the axle shaft and by replacing the wheels from one sideboard to the other one.

To change the rear wheel track perform the following operations:

- put the tractor on a level ground, put the stops under the front and rear wheels, clean the axle shafts from dirt;

- jack up the corresponding axle tube;

- turn off the wheel retaining nuts and remove the wheel;

- release two tie bolts 1 (figure 1) of inserts 3 and 4 (one in each insert) by three complete turns. Screw out the rest of the tie bolts. Remove the blind plugs from the dismounting holes. Screw in the bolts which were screwed out from the inserts, into the dismounting threaded holes;

- in case it is impossible to squeeze out the inserts with the help of dismounting bolts 1, fill kerosine or other penetrant into the split between the inserts and the hub group housing, wait for some time and then screw in the dismounting bolts, tapping on the hub group housing at the same time until the inserts are completely squeezed out;

- shift the hub group to the required track (use table 1 to set track "K" (figure 2) by measuring dimension «L» from the axle shaft end to the insert end);

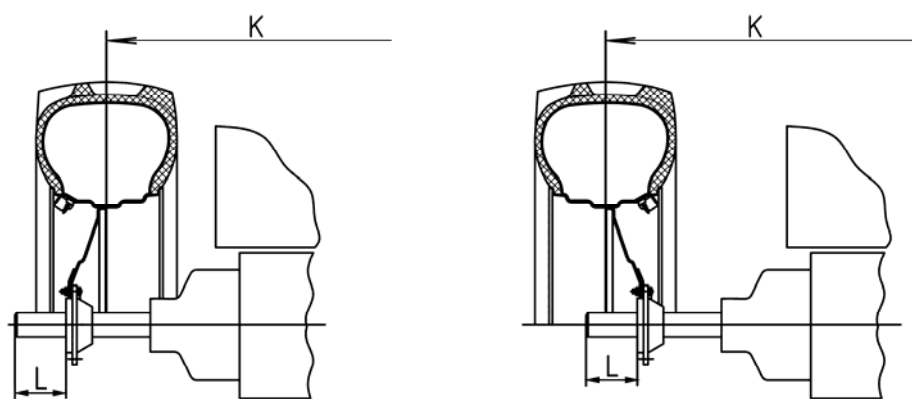
- screw out the tie bolts from the dismantling holes and screw them into the inserts. Screw in the tie bolts with a torque from 360 to 380Nm in a sequence of 1, 2, 3, 4, 5, 6 (figure 1b);

- mount the wheel onto the hub group, tighten the wheel retaining nuts with a torque from 300 to 350Nm, set the blind plugs to their places;

- After you have mounted the wheel on the wheel hub tighten bolts 1 (figure 1) with a torque of 360 to 400 Nm in a sequence of 1, 2, 3, 4, 5, 6.

Set the other wheel track in the same way;

Check and tighten the wheel hub tie bolts and wheel retaining nuts after the first operation hour, after the first eight – ten operation hours and every succeeding 125 operation hours.



SCHEME 1

SCHEME 2

Figure 2 – Rear wheel track setting

Table 1 – Rear wheel track setting

Tire standard size	Scheme number (figure 2)	Track dimension «K», mm	The setting size from the end of the hub insert to the axle shaft end «L», mm
18.4R38	1	1650-1916	133-0
	2	1946-2156	250-145

ATTENTION: WHEN SHIPPED FROM THE WORKS, REAR WHEELS ARE SET TO THE WHEEL TRACK ACCORDING TO SCHEME 1 (FIGURE 2)!

Note – For information about setting the rear track for the wheels of the alternative configurations, please contact your dealer.

2. Clause “Operation 12a. Check and tightening of wheel hubs and wheel retaining nuts section “Scheduled maintenance” at page 249 shall be amended as follows:

The information available:

- bolts (1) of rear wheel hubs with a torque of 360 to 500Nm;

Shall be replaced with:

- bolts 1 (figure 1) of the rear wheel hubs with a torque of 360 to 400 Nm. In case of incompatibility of bolt tightening torques the bolts shall be tightened according to section “Rear wheel track formation” (page 159);