

PARTS & SERVICE NEWS

REF NO.	AT01208
DATE	Dec. 14, 2001

SUBJECT: INTRODUCTION OF 55.5/80-R57 RADIAL TIRE FOR WA1200-3

PURPOSE: To introduce 55.5/80/R57 radial tires for the WA1200-3

APPLICATION: WA1200-3 Wheel Loaders, Serial Nos. 50001 and up

FAILURE CODE: 3A10Z9

DESCRIPTION:

1. Introduction

"55.5/80-R57" radial tires have been ready for use on the WA1200-3 and are introduced in this Service news. These tires fit a machine which is used for frequent travel and load & carry operations. Carry out installation according to the procedures described in this Service News.

2. List of parts

Part No.	Part Name	Qty	Remarks
42C-30-11310	Tire	4	
42C-30-12101	Rim ass'y	4	
42C-30-12160	O-ring	4	
42C-30-12210	Tire valve	4	

3. About radial tires

- (1) Tire size: 55.5/80R57
- (2) TKPH value (at 38 °C): approximately 400
Reference: TKPH = travel distance per hour (km/h) × average load on tire (ton)
- (3) Recommended air pressure of tire
625 kPa (6.35 kg/cm²)
- (4) Adaptable rim
 - a) Rim size: 57 × 44.00/6.0
 - b) Part No.: 42C-30-12101
- (5) Tire weight
6100 kg
- (6) Tire size: see the next page

Note: Part No. 42C-30-12100 is also available with the same size (57 × 44.00) of the rim.

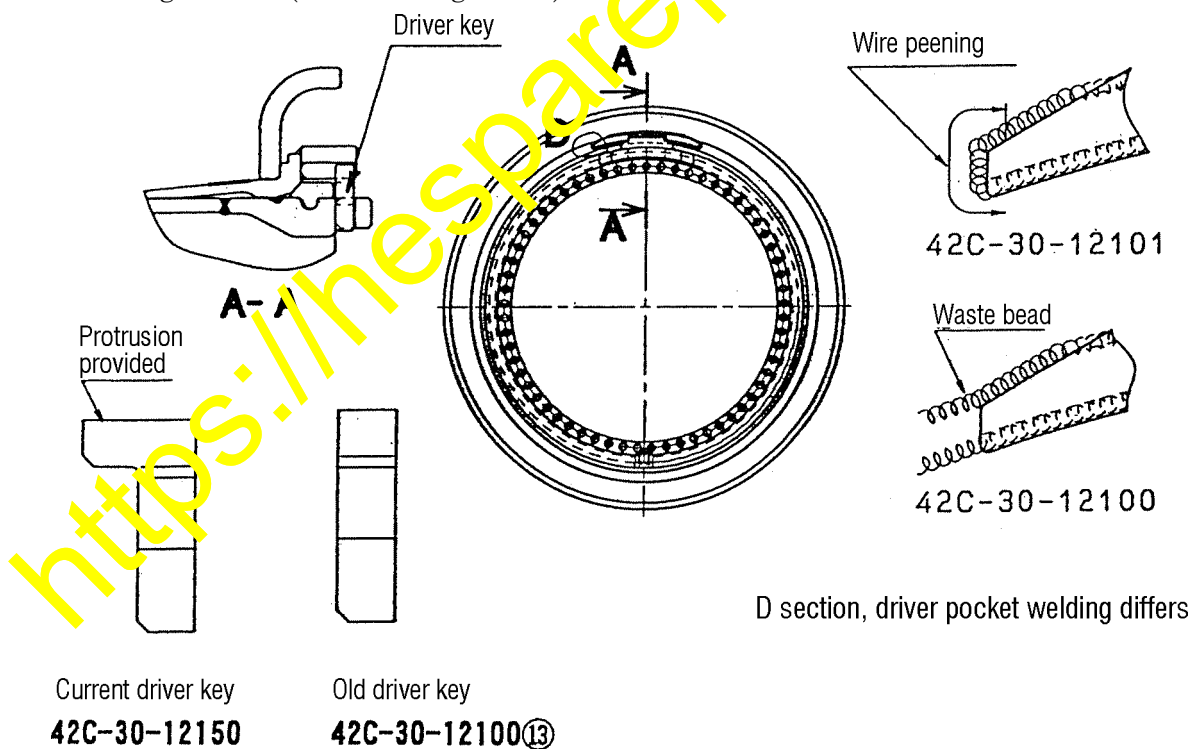
However, deformation could occur in the pocket contact surface of the driver key when this rim is used with a radial tire installed.

(There is no problem when the bias tire is installed.)

Use 42C-30-12101.

(Replace the driver key with the current driver key 42C-30-12150 when using a 42C-30-12100 rim.)

* : How to distinguish between 42C-30-12100 and 42C-30-12101: the driver pocket welding and the driver key shape are different as shown in the drawing below. (See drawing below)



How to differentiate the driver keys

Part No. of the rim and driver key

	Current part	Old part
Rim No.	42C-30-12101	42C-30-12100
Driver key No.	42C-30-12150	42C-30-12100 ⑬

4. Procedure for installing tire on rim

(1) Prepare "Mounting Paste" (either TC-1, TC-2, TC-9 or TC-10) manufactured by Tip Top as the rim-assembling lubricant.

(2) Assembly of the tire on the rim

Apply 30 – 50 g of the above lubricant to the contact surface of a rim tire bead (whole round of ☆1 and ☆2: see drawing below) with brush and assemble the tire on the rim.

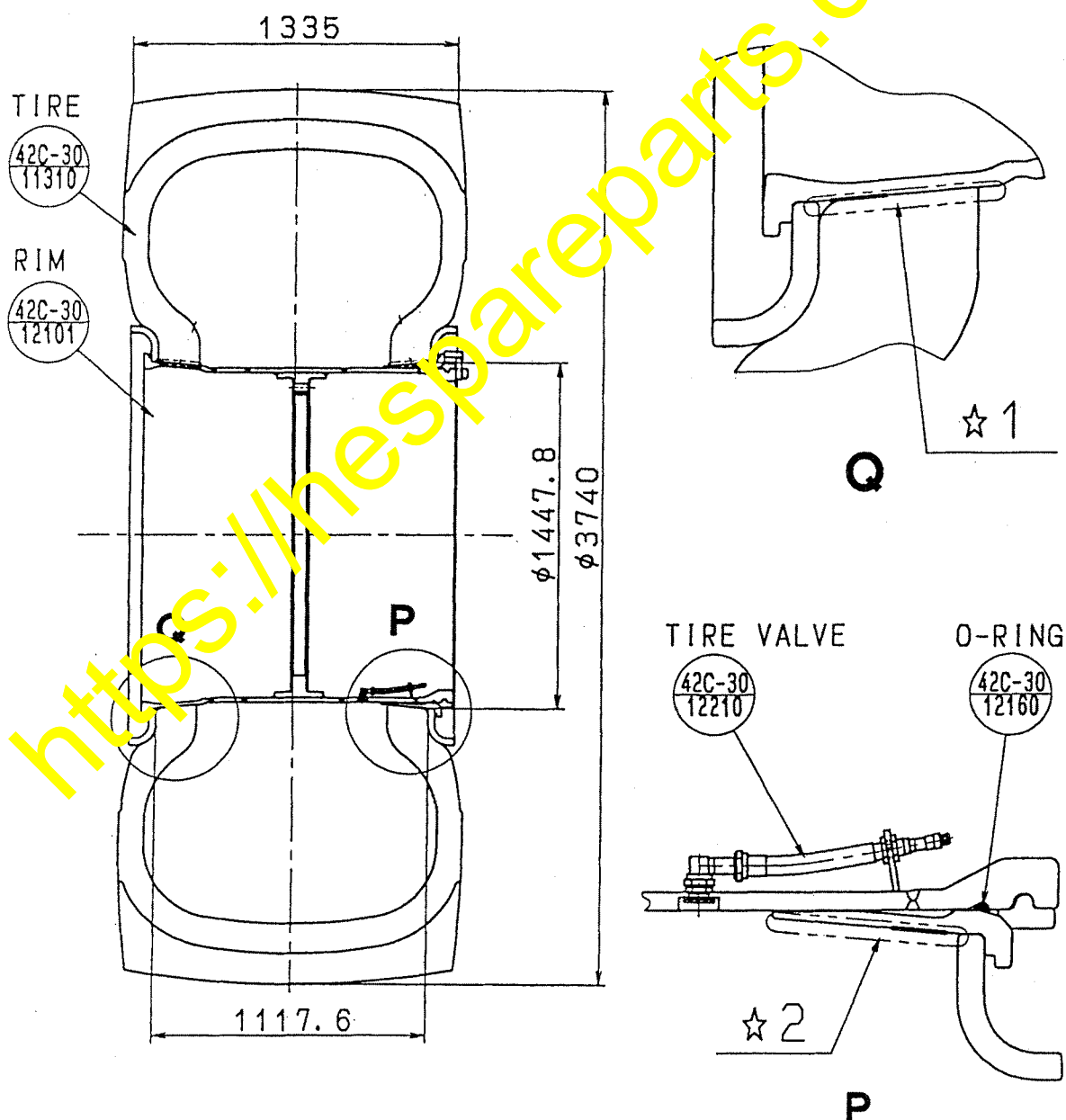
(3) Set the internal pressure to 880 kPa (9.0 kg/cm²) and leave it for an hour or more.

(4) Set the internal pressure to 625 – 735 kPa (6.35 – 7.5 kg/cm²) for the front wheel and 490 – 625 kPa (5.00 – 6.35 kg/cm²) for the rear wheel.

(5) Running-in (Carry out running-in following the procedure described below after installing the tire and rim on the vehicle)

Travel in a figure of eight at a speed of 15 – 20 km/h two-times, then forward and reverse in the straight line for 30 m twice.

Carry out the above procedure five times



5. Recommended tires by operation mode

For how to know difference in use of radial and bias tires, see the table below.

Note:

Consult with the maker after specifying the actual operation pattern (vehicle application, digging and loading or load & carry, traveling distances of vehicle, weight of physical objects and ambient temperature) before making the final tire selection.

○ : Recommended

× : Not recommended

Running time per day	Ambient temperature	Recommended tire	Percentage of operation pattern time		
			Case 1 L&C: 70 %, Vorl: 30%	Case 2 L&C: 50 %, Vorl: 50%	Case 3 L&C: 30 %, Vorl: 70%
10 hours	0 °C	Radial	○	○	○
		Bias	○	○	○
	25 °C	Radial	○	○	○
		Bias	×	○	○
	50 °C	Radial	○	○	○
		Bias	×	×	○
20 hours	0 °C	Radial	○	○	○
		Bias	×	×	×
	25 °C	Radial	○	○	○
		Bias	×	×	×
	50 °C	Radial	○	○	○
		Bias	×	×	×

V : V-shape loading

I : I-cross loading