

PARTS & SERVICE NEWS

REF NO.	AA04074
DATE	May 28, 2004

(C)

Page 1 of 2

- SUBJECT:** AN IMPROVED NEEDLE BEARING COUNTER SHAFT TYPE T/M
- PURPOSE:** To introduce an improved needle bearing for the counter-shaft transmissions featuring enhanced reliability.
- APPLICATION:** WA120-3L Wheel Loader Serial Number A30001 to A30126
 WA180-3L Wheel Loader Serial Number A80001 to A80380
 WA180-3PTC Wheel Loader Serial Number A85001 to A85135
 WA250-3L Wheel Loader Serial Number A70001 to A70380
 WA250-3PTC Wheel Loader Serial Number A75001 to A75201
 WA320-3L Wheel Loader Serial Number A30001 to A30493
 WA380-3L Wheel Loader Serial Number A50001 to A50493
 WA420-3L Wheel Loader Serial Number A30001 to A30175
 WA450-3L Wheel Loader Serial Number A30001 to A30361
- FAILURE CODE:** 14E0Z9
- DESCRIPTION:** This Parts and Service News will introduce an improved needle bearing for the counter-shaft type transmissions featuring enhanced reliability.

MACHINE PREPARATION

1. Park the machine on a flat level surface; lower the work equipment to the ground. Shut off the engine and cycle the controls to remove any residual hydraulic pressure from the work equipment circuits. Turn the parking brake switch on and block the tires.
2. Remove the key from the ignition switch until the repairs are complete. Place a tag on the steering controls advising: "This machine is being repaired. It should not be started or moved for any reason until the tag is removed by the person doing the repairs."



WARNING! Observe all safety and precautionary standards as dictated by the environment and work conditions under which the equipment will be inspected, reworked and repaired. consult the "Shop Manual" and "Operator's and Maintenance Manual" and your "Komatsu district service manager" with any/all questions regarding safety.

Remark

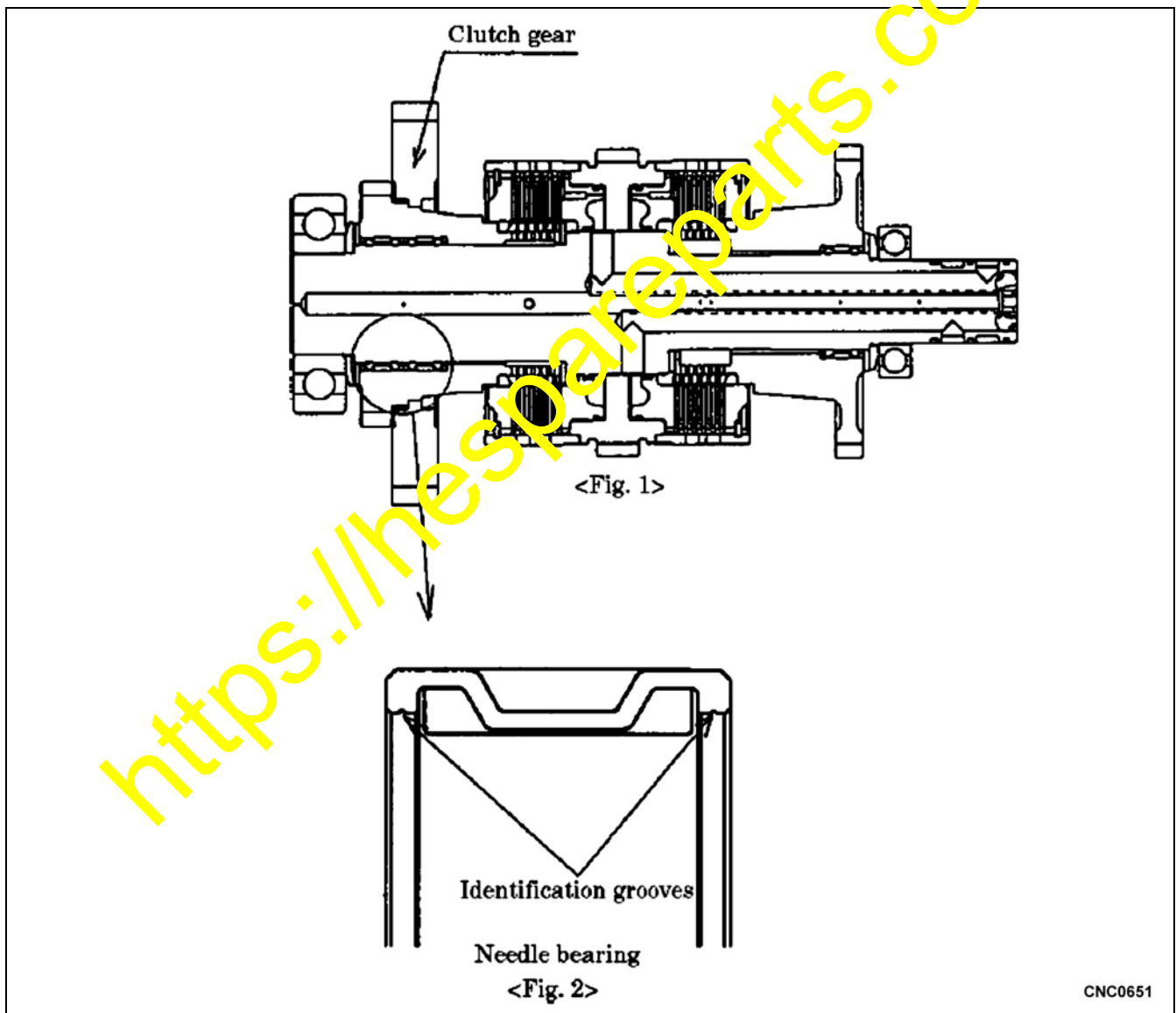
These instructions are intended to supplement the service data contained in the appropriate "Shop Manual". Always refer to that manual for Removal, Installation, Disassembly and Reassembly instructions when not contained in this document.

PART LISTING

Part Number	Description	Qty.	Remark
419-15-13151	BEARING	1	Cage is provided with two identification grooves
(419-15-13150)	(BEARING)	(1)	
714-07-12271	BEARING	1	
(714-07-12270)	(BEARING)	(1)	
714-07-12281	BEARING	1	
(714-07-12280)	(BEARING)	(1)	

CONTENTS OF THE MODIFICATION

Crowning (slight chamfering around the edges of the roller) has been added to the roller of the needle bearing being used underneath the clutch gear. Thus, the local bearing pressure applied to the edge of the roller can be alleviated and reliability can be enhanced.



★ It is impossible to visually distinguish the difference in the degree of crowning. Identify the new and current needle bearing by the identification grooves (at 2 places on both sides) provided in the inner periphery of the cage of the new bearing. (Refer to <Fig. 2>.)