

PARTS & SERVICE NEWS

REF NO. AA01219A

DATE July 17, 2002

(C)

Page 1 of 6

This Parts & Service News supersedes the previous issuance, AA01219, dated October 31, 2001. AA01219 should be discarded.

SUBJECT: INTRODUCTION OF RETURN SPRINGS FOR PREVENTING WEAR ON PARKING BRAKE PADS

PURPOSE: To introduce new caliper return springs for use on the parking brake on WA700/800/900-3/WD900-3 Wheel Loaders.

APPLICATION: Komatsu Wheel Loaders:
 WA700-3, 50001 thru 50045;
 WA700-3L, A50001 thru A50021;
 WA800-3, 50001 thru 50021;
 WA800-3LC, A50001 thru A50021;
 WA900-3, 50001 thru 50017;
 WA900-3LC, A50001 thru A50019;
 WD900-3, 50001 thru 50005

FAILURE CODE: 2F14CC

DESCRIPTION:

1. Introduction

During normal loader and dozer operation, dirt and debris can accumulate on parking brake components. As this occurs, excessive wear on the parking brake pads may result, and consequently, the parking brake will need to be adjusted more frequently.

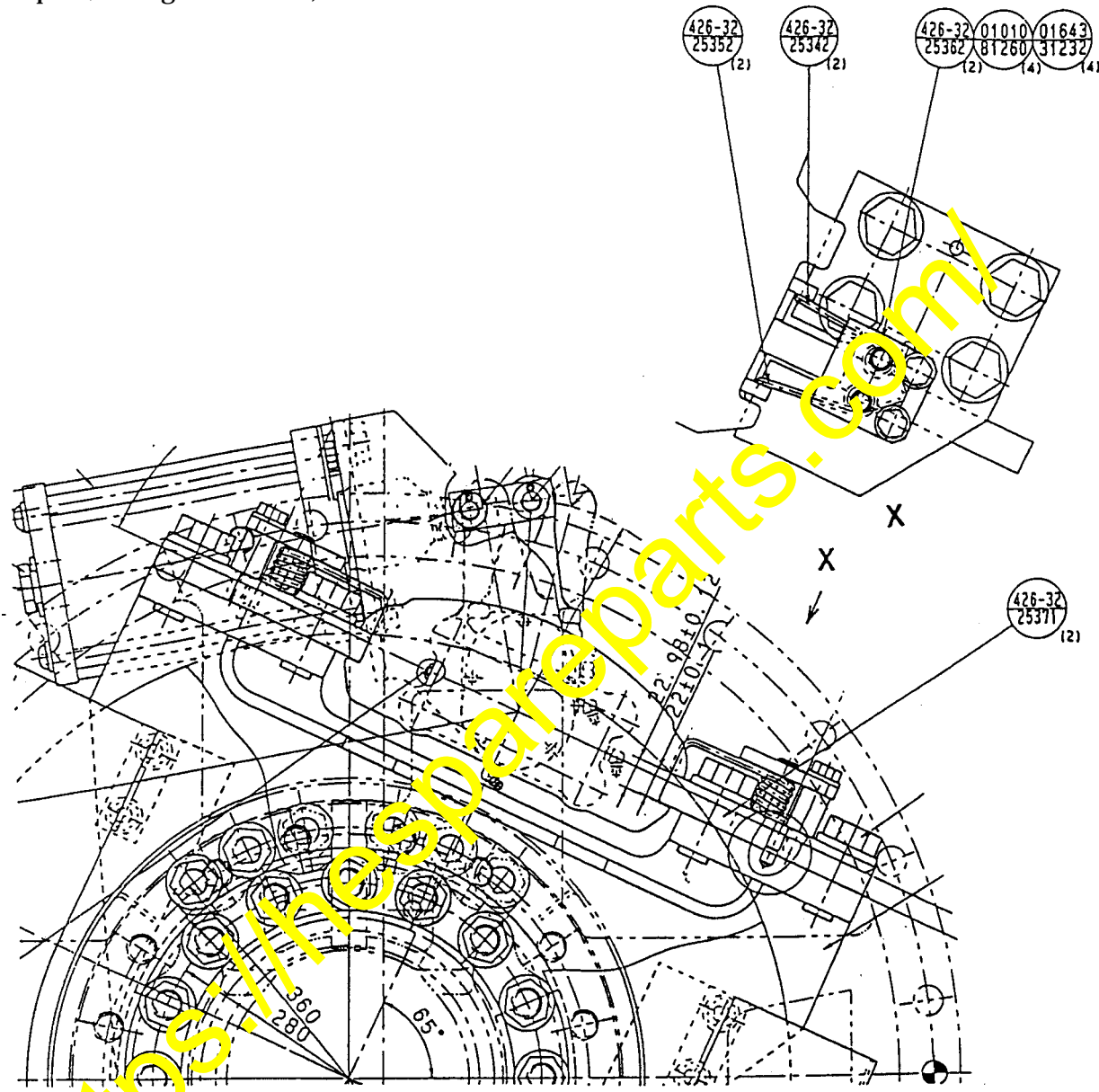
New return springs have been developed to help prevent premature wear on the brake pads and the need for frequent adjustment. This bulletin contains a parts list and instructions for completing this modification.

2. List of parts

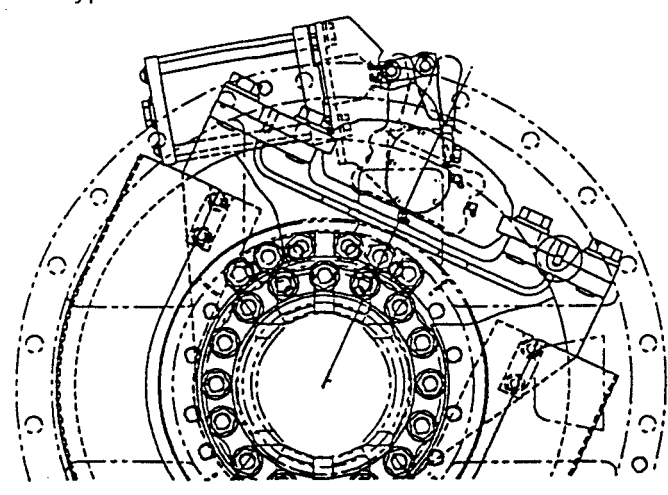
Part No.	Part Name	Q'ty	Remarks
<WA700-3, WA700-3LC>			
426-32-25371 (426-32-25321)	Plate (Plate)	2 (2)	} Parts common with WA600-3
426-32-25342	Spring	2	
426-32-25352	Spring	2	
426-32-25362	Bracket	2	
01010-81260	Bolt	4	
01643-31232	Washer	4	
<WA800-3,WA800-3LC, WA900-3, WA900-3LC WD900-3>			
426-32-25371 (426-32-25321)	Plate (Plate)	4 (4)	} Parts common with WA600-3
426-32-25342	Spring	4	
426-32-25352	Spring	4	
426-32-25362	Bracket	4	
01010-81260	Bolt	8	
01643-31232	Washer	8	
427-62-12253 (427-62-12252)	Tube (Tube)	1 (1)	} Replacement parts for modification
07000-F3048 (07000-F3048)	O-ring (O-ring)	1 (1)	
07000-F3038 (07000-F3028)	O-ring (O-ring)	1 (1)	

3. Contents of the modification

Additional caliper-returning springs are to be installed. (See the drawings below which are for Model WA700-3. The models WA800-3, WA900-3 and WD900-3 carry two sets of calipers, on right and left.)



< Conventional Type >




Steps for Installation

- Dismantle the parking brake assembly.

⚠ Park the machine on the flat and solid ground, then lower the work equipment to the ground, and apply chocks to the wheels.

⚠ Disconnect the negative (-) terminal of the battery pack.

1. Remove disc plate cover (1).
2. Detach propeller shaft (2). ※1


 Drive Shaft: 112 kg (WA700)
173 kg [WA800, WA900]
WD900

3. Turn adjusting bolt (3) counterclockwise to increase the clearance between the pad and the disc. ※2

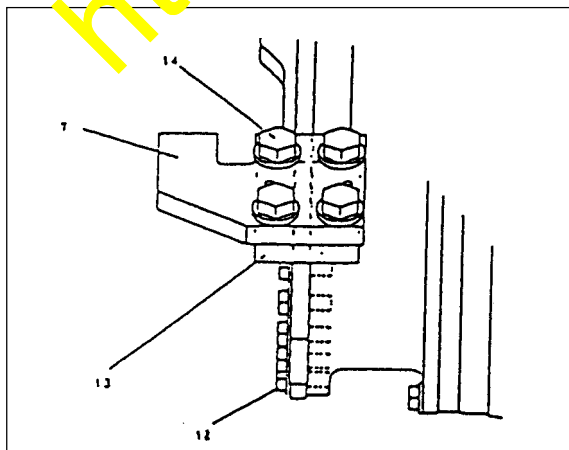
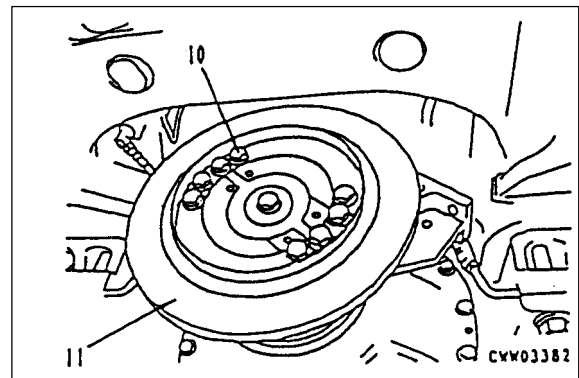
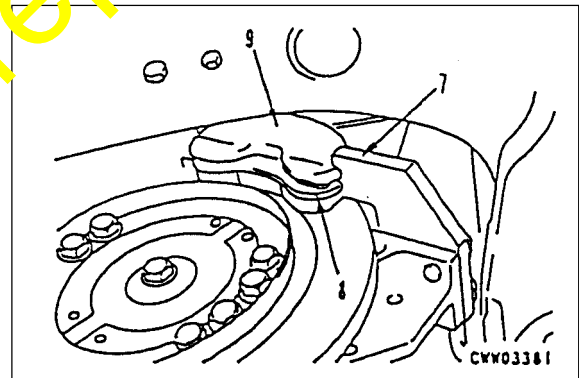
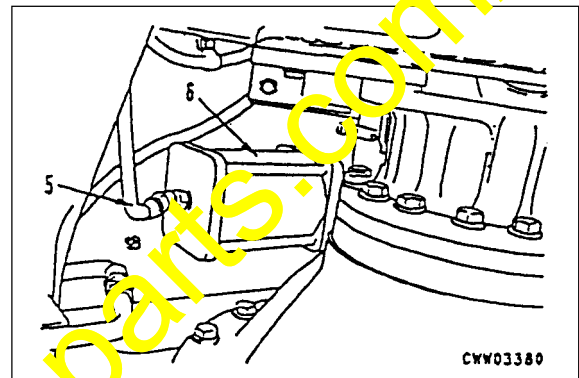
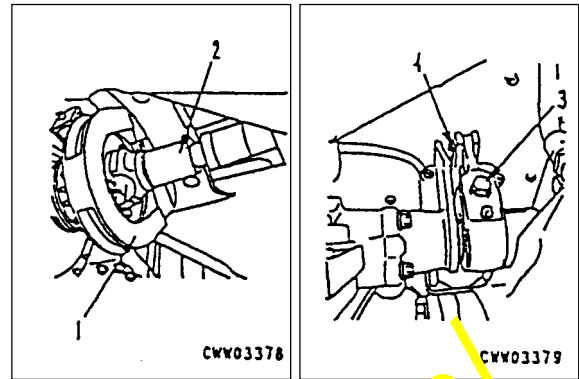
4. Pull out connecting pin (4).
5. Detach hose (5).
6. Detach spring cylinder (6).
7. Remove plate (7). ※3

★ Keep the caliper fixed.
★ Two knock pins are used. Remove them after slightly lifting up the caliper.

8. Remove pad (8).
9. Dismantle caliper assembly (9).

 Caliper Assembly Weight: 40 kg


10. Loosen the disc securing bolts (10) and take off disc (11). ※4
11. Loosen the bracket securing bolts (12) and take off the bracket (13). ※5
12. Loosen the plate securing bolts (14) and take off the plate (7). ※3



Steps for Installation

Mount the parking brake assembly.

- The parking brake assembly can be mounted exactly in the reverse order to the dismantling.
- ★ When mounting the parking brake assembly, make sure to install the plate (16) incorporating springs (15), in lieu of plate (7).

 Securing Bolts: 98 – 122 Nm {10 – 12.5 kgm}

※ 1


Securing Bolts: 157 – 196 Nm {16 – 20 kgm}

※ 2

★ For the inspection and adjustment, see the section of "Inspection and Adjustment of Parking Brake Assembly"


※ 3

 Securing Bolts: Adhesive Compound (LT-2)

 Securing Bolts: 824.0 – 1030.0 Nm {84.0 – 105.0 kgm}


※ 4

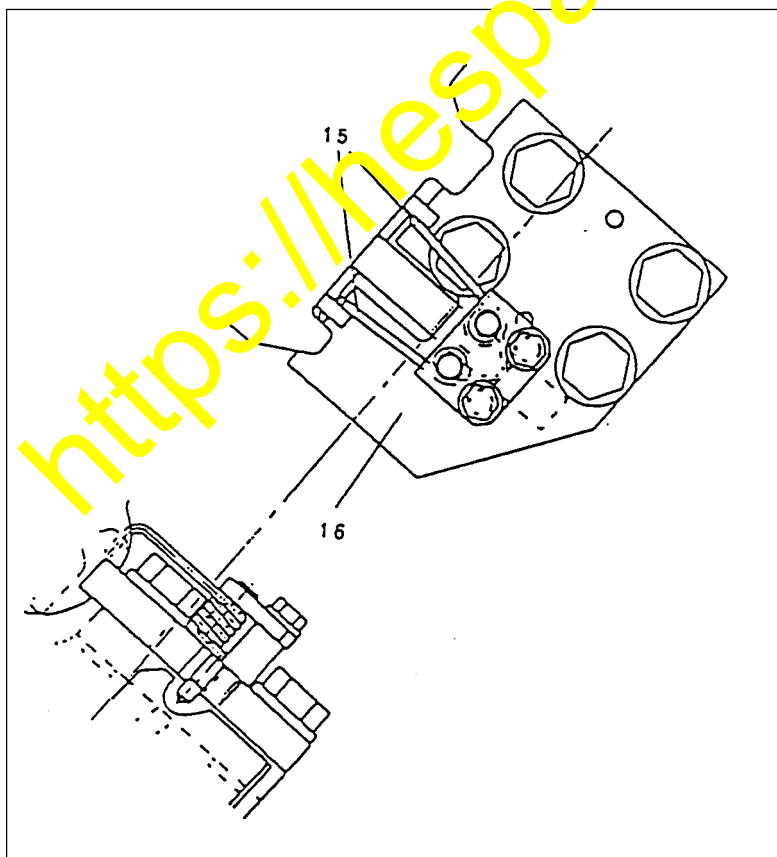
 Securing Bolts: Adhesive Compound (LT-2)

 Securing Bolts: 490.0 – 608.0 Nm {50 – 62 kgm}

※ 5

 Securing Bolts: Adhesive Compound (LT-2)

 Securing Bolts: 245 – 309 Nm {25.0 – 31.5 kgm}



- Air Bleeding
Bleed air remained in the parking brake circuit, referring to the clause of "Air Bleeding in Each Part" of the Inspection and Adjustment section.

Steps for Installation

With WA800-3, WA900-3 and WD900-3 models, replace the current steering piping (tube) with new one prior to the installation of the modified parts for reason of preventing interference. This replacement is not required of WA700-3 model.

