

PARTS & SERVICE NEWS

REF NO. AA98012A

DATE May 3, 2001

(C)

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This **PARTS & SERVICE NEWS** supercedes AA98012 dated February 3, 1998 and should be discarded.

SUBJECT: REPLACING 6C FLANGE DRIVE SHAFT WITH 7C FLANGE

PURPOSE: To improve the service life of grader drive shaft in extreme applications.

APPLICATION: GD530A Graders S/N 200000 thru 203506, 203511 thru 203542
 GD530AW Graders S/N 200000 thru 203506, 203511 thru 203542
 GD650A Graders S/N 200000 thru 203506, 203511 thru 203542
 GD650AW Graders S/N 200000 thru 203506, 203511 thru 203542
 GD670A Graders S/N 200000 thru 203506, 203511 thru 203542
 GD670AW Graders S/N 200000 thru 203506, 203511 thru 203542
 830 Graders S/N 200000 thru 203506, 203511 thru 203542
 850 Graders S/N 200000 thru 203506, 203511 thru 203542
 870 Graders S/N 200000 thru 203506, 203511 thru 203542

Some graders, Serial Numbers 203511 thru 203542, were manufactured with either 6C or 7C drive shafts. To identify which drive shaft your machine has, measure the circumference around the barrel of the drive shaft: 6C = 9.5"; 7C = 11"

FAILURE CODE: 2010Z9

DESCRIPTION: This **PARTS & SERVICE NEWS** presents the proper procedure for removing the 6C flanges from the transmission and differential and replacing them with 7C flanges and a new 7C drive shaft. A kit, 1438019H91, has been made available to obtain all parts needed for the upgrade. The kit contains the following:

Part Number	Qty.	Description
149 507	1	Yoke, Transmission Output
149 506	1	O-ring - transmission yoke
75 991	1	Seal, Oil - transmission yoke
1438 078 H91	1	Yoke, Differential Input - includes seals
22 288 R1	1	O-ring - differential yoke
28 841 R1	8	Bolt - parking brake disk mounting
25 534 R1	16	Washer, Flat - parking brake disk mounting
9413 979	8	Nut, Lock - parking brake disk mounting
1437 867 H91	1	Shaft, Drive - includes mounting hardware

REPLACING 6C FLANGE DRIVE SHAFT WITH 7C FLANGE

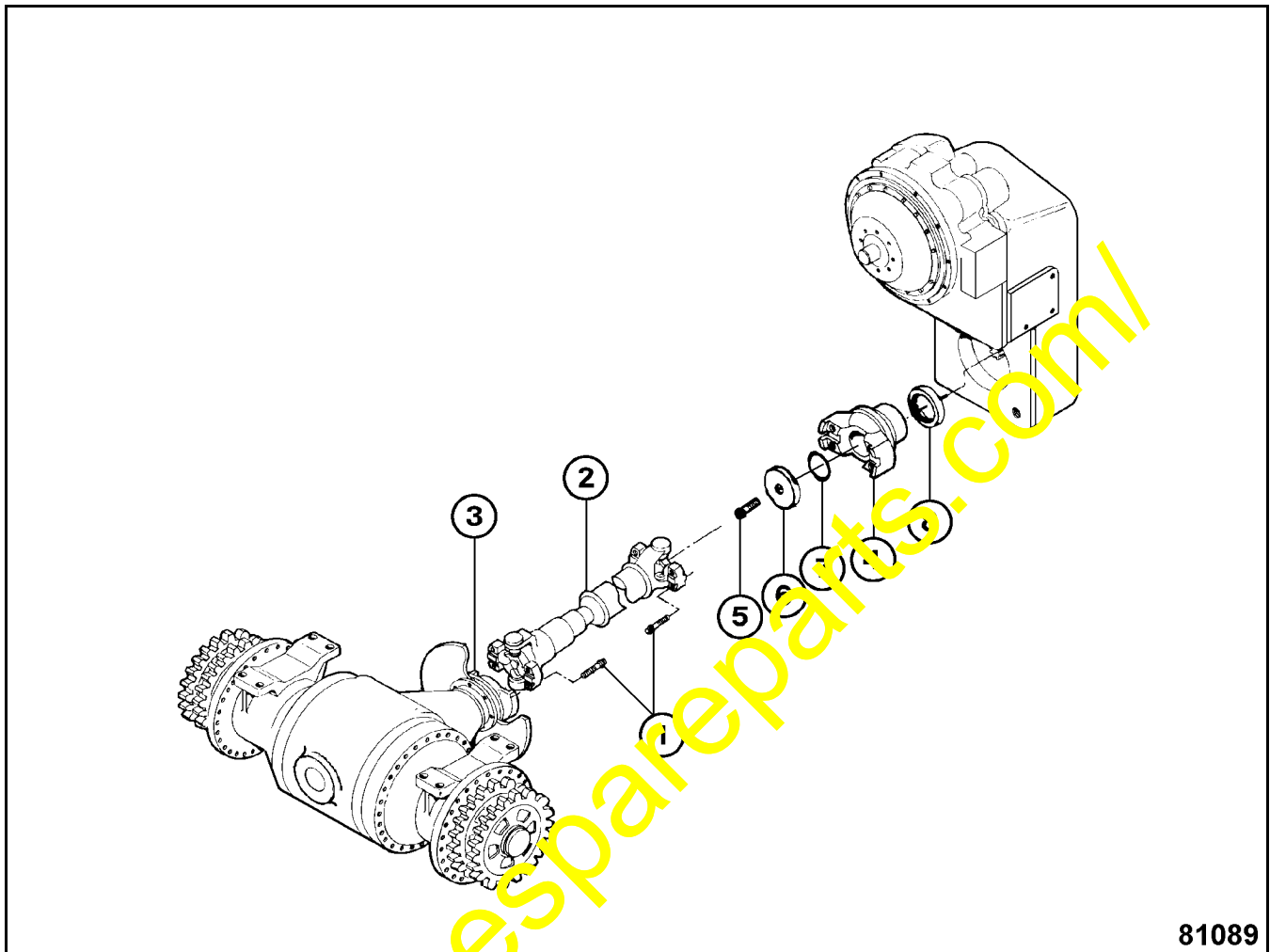


Figure 1

1. To replace drive shaft, remove eight ferris head bolts and lock washers (1) securing drive shaft (2) to input yoke of differential (3) and transmission output yoke (4).
2. To replace output yoke of transmission, remove bolt (5), washer (6), o-ring (7), yoke (4) and oil seal (8). Discard o-ring, yoke and oil seal.
3. Install new 75991 oil seal (8), new 1438018H91 yoke (4), and a new 149506 o-ring. Reuse washer (6) and bolt (5). Tighten bolt to 170 lbf ft.

4. Remove parking brake caliper (1, Figure 2) from bracket (2) by following removal instructions in Shop Manual K-04.30.

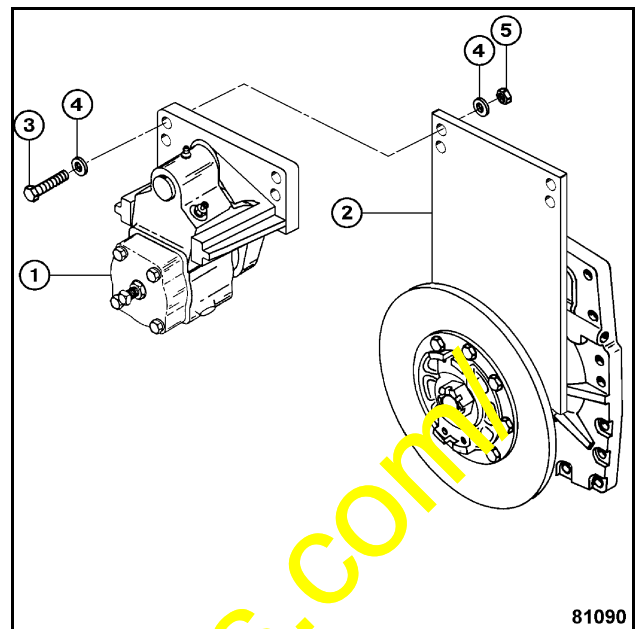


Figure 2

5. Remove parking brake disk (1, Figure 3) from differential input yoke (2) by removing eight bolts (3) and washers (4).
6. Remove yoke (2) from differential by removing cotter pin (5), castle nut (6), special washer (7), and o-ring (8).
7. Remove v-seal (9) from yoke (2) and seal (10) from differential case cover (11).

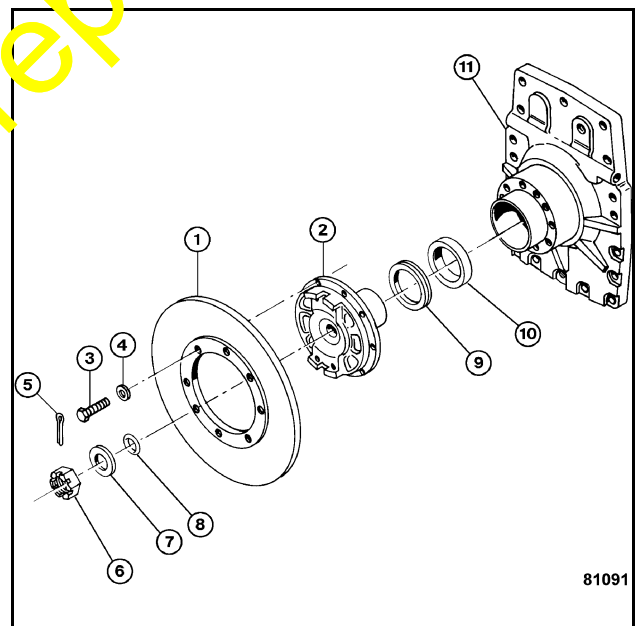


Figure 3

8. Install new seal (1, Figure 4) into differential case cover (2); install new v-seal (3) onto new yoke (4); seals are included in 1438019H91 yoke kit.
9. Install yoke assembly (3 & 4) onto pinion shaft in differential case cover (2).
10. Install new 22288 R1 o-ring (5), special washer (6), and castle nut; tighten to 445 lbf ft, loosen to 200 lbf ft, then tighten to 300 lbf ft. Install cotter pin (8).

NOTE: *If pinion gear endplay adjustment is necessary, follow procedure in Shop Manual Section G-09.30.*

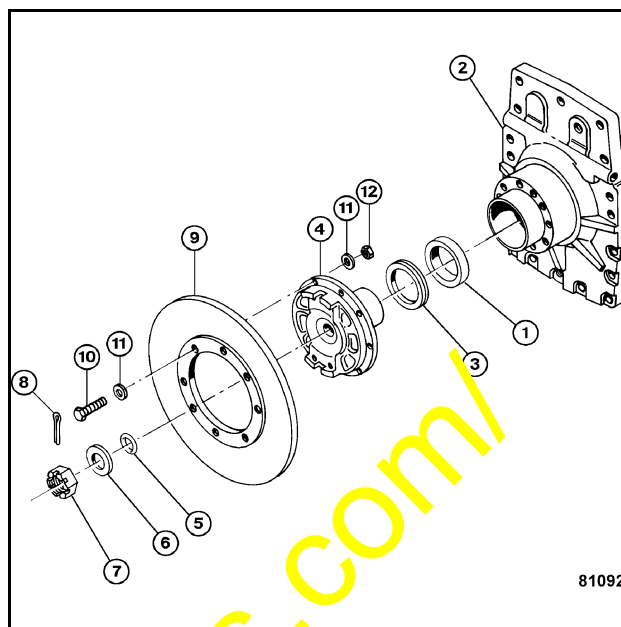


Figure 4

11. Install parking brake disk (9) to yoke (4) with new hardware: eight 24841R1 bolts (10), sixteen 25534R1 washers (11), and eight 9413979 lock nuts. Tighten to 50 lbf ft in a star crossing pattern.
12. Install parking brake caliper (1, Figure 5) to parking brake bracket (2) by following installation instructions in Shop Manual K-4.30.

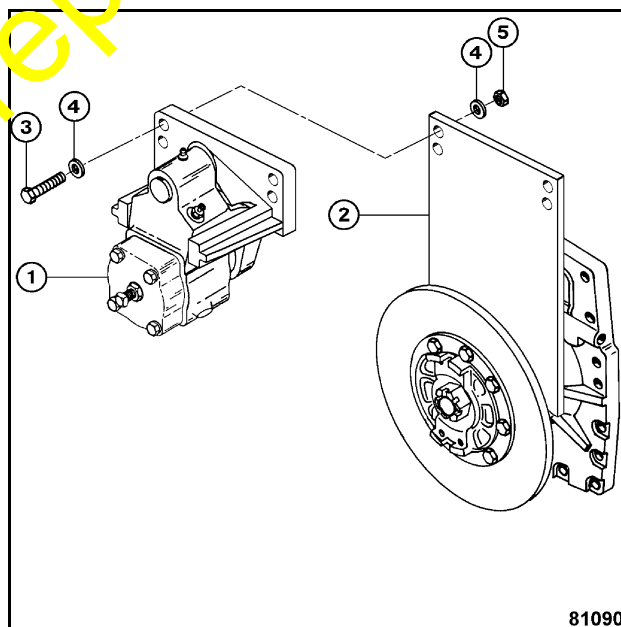


Figure 5

13. Install new 1437867H91 drive shaft (1) to transmission output yoke (2) and differential input yoke (3) with hex head bolts (4) and washers supplied with drive shaft. Tighten to 80 lbf ft.
14. Grease all three grease fittings every 250 hours with Komatsu Supergrease or equivalent.

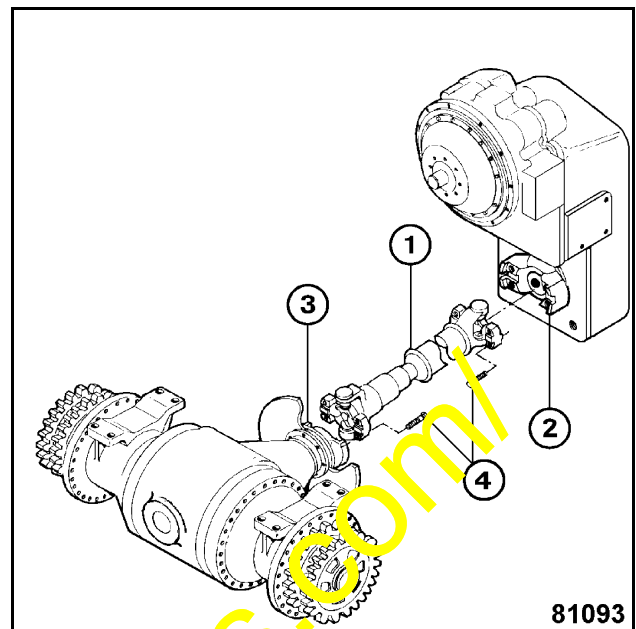


Figure 6

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