



# Service Repair Manual

## **Models**

# 12H Motor Grader

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Product: MOTOR GRADER

Model: 12H MOTOR GRADER 4ER

Configuration: 12H Motor Grader 4ER00001-UP (MACHINE) POWERED BY 3306 Engine

## Disassembly and Assembly 12H, 140H and 160H Motor Graders Power Train

Media Number -SEN8548-14

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i02186165

## Final Drive - Disassemble

SMCS - 4050-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3938	Link Brackets	2
B	5P-4204	Wrench Assembly	1

### Start By:

- Remove the final drives. Refer to Disassembly and Assembly, "Final Drive - Remove" for the correct procedure.

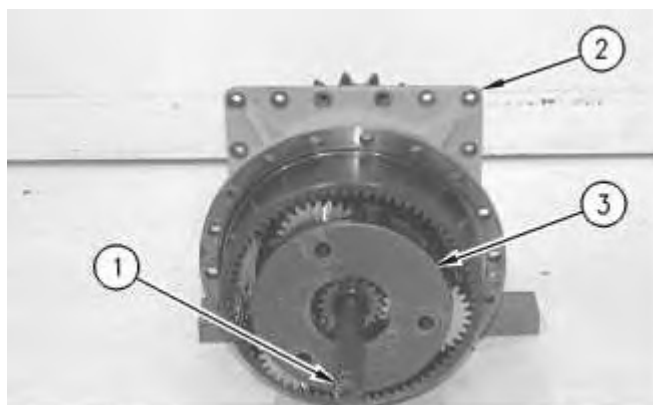


Illustration 1

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1. Remove sun gear shaft (1) from housing (2).
2. Remove planetary carrier (3) from housing (2).

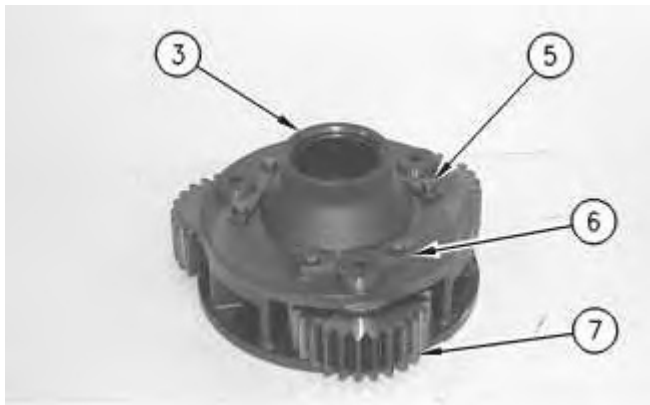


Illustration 2

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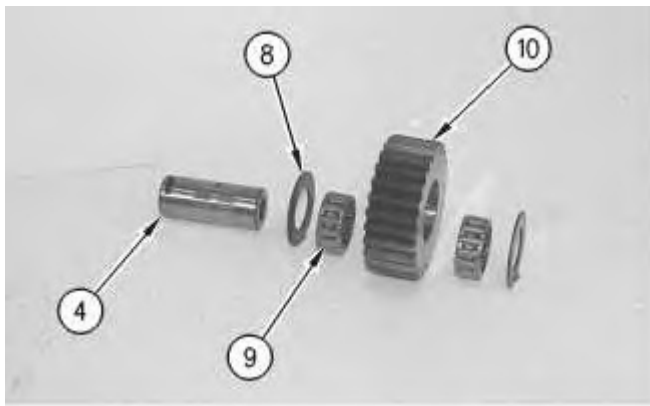


Illustration 3

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3. Remove locking bolts (5), the washers, and retainers (6) from planetary carrier (3).
4. Remove planetary shafts (4) to remove gear assemblies (7) from planetary carrier (3).

**Note:** Each gear assembly (7) consists of two washers (8), two roller assemblies (9), gear (10) and planetary shaft (4).

**Note:** Mark the location of the components of the gear assemblies for assembly purposes.

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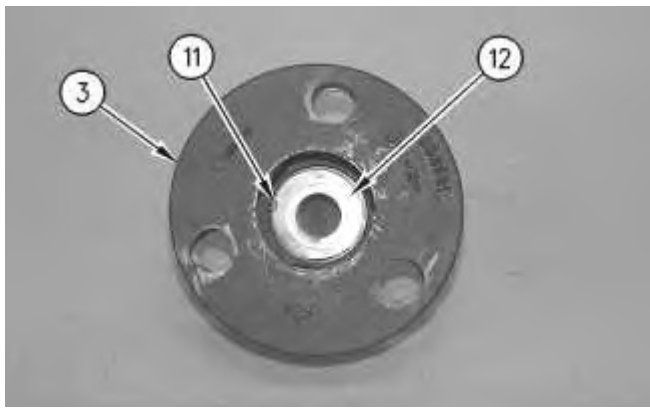


Illustration 4

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5. Remove retaining ring (11) and washer (12) from planetary carrier (3).



Illustration 5

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6. Remove locking bolts (13), the washers, and plates (14) to remove ring gear (15).
7. Remove ring gear (15) from the housing (2).

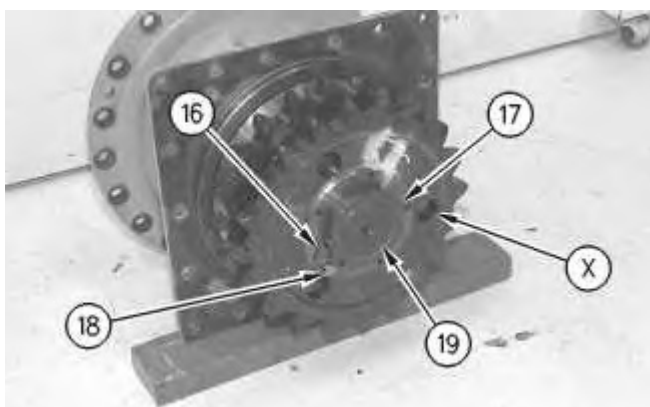


Illustration 6

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8. Remove locking bolt (18), the washer, and lock (16) which holds nut (17) to drive shaft (19).

**Note:** Notice that the lubrication holes (X) in sprockets (20) are in alignment. This will help in assembly procedures.

9. Use Tooling (B) (not shown) to remove nut (17) from the drive shaft (19).

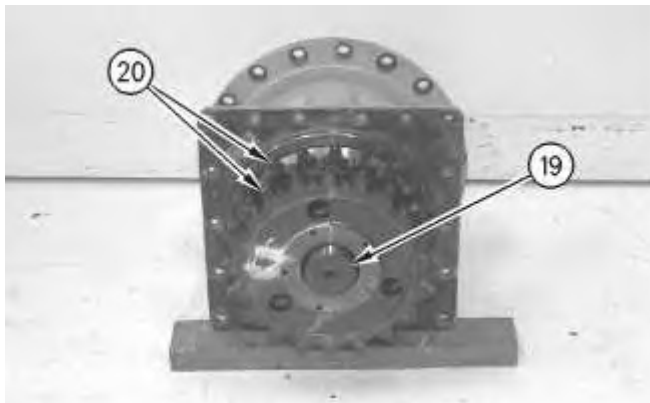


Illustration 7

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10. Remove two sprockets (20) from drive shaft (19).

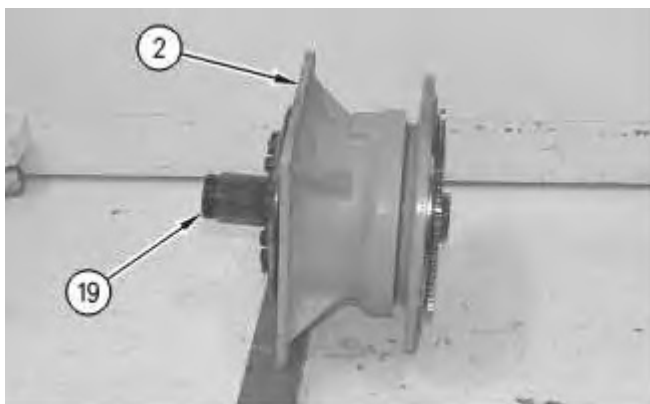


Illustration 8

g00621116

11. Remove drive shaft (19) and two roller bearing cones from housing (2). One of the roller bearing cones will be removed with drive shaft (19). The remaining roller bearing cone must be removed from the other end of housing (2). This will be completed during Step 12.



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