



Service Repair Manual

Models

140M 2 MOTOR GRADER

Product: MOTOR GRADER

Model: 140M 2 MOTOR GRADER R9G

Configuration: 140M Series 2 Motor Grader - All Wheel Drive R9G00001-UP (MACHINE) POWERED BY C9 Engine

Disassembly and Assembly

12M Series 2, 140M Series 2 and 160M Series 2 Motor Graders Power Train

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i07506146

Piston Motor (Wheel Propel) - Assemble

SMCS - 4351-016-YW; 5058-016-YW

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	317-3804	Spanner Wrench	1
D	1P-0510	Driver Gp	1
E	1P-1862	Pliers	1
F	-	Loctite 276 Thread Locker	1
G	5P-3037	Pusher Plate	1
H	4C-4032	Loctite 609 Retaining Compound	1
J	317-5303	Measuring Plate	1
K	1U-8846	Loctite High Flex GM	1
L	4C-9507	Loctite 620 Retaining Compound	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Cleanliness is an important factor. Before assembly, thoroughly clean all parts in cleaning fluid. Allow the parts to air dry. Do not use wiping cloths or rags to dry parts. Lint may be deposited on the parts which may cause trouble. Inspect all parts. If any parts are worn or damaged, use new parts for

replacement. Dirt and other contaminants can damage the precision component. Perform assembly procedures on a clean work surface. Keep components covered and protected always.

Note: Check the O-ring seals for wear or for damage. Replace the components, if necessary.

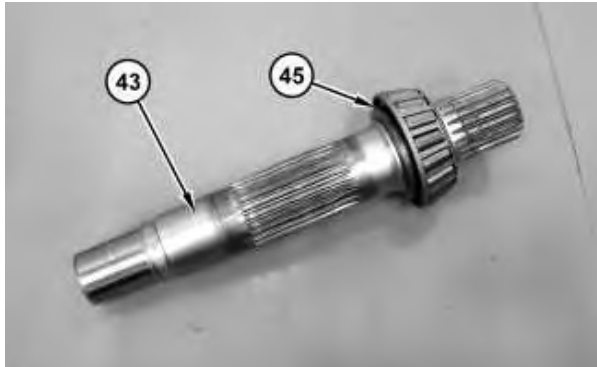


Illustration 1

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1. Raise the temperature of bearing cone (45). Install bearing cone (45) onto shaft (43).

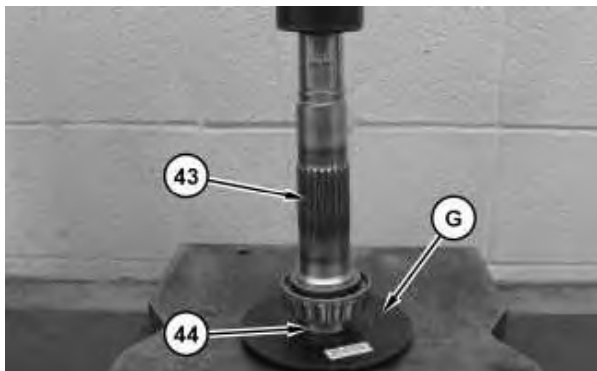


Illustration 2

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2. Raise the temperature of race (44). Apply Tooling (H) to shaft (43). Use Tooling (G) and a suitable press to install race (44) onto shaft (43). The tapered end of race (44) should face away from the bearing.
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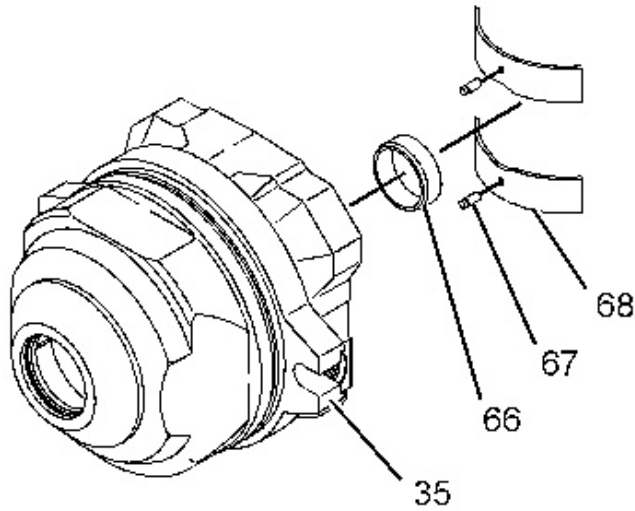
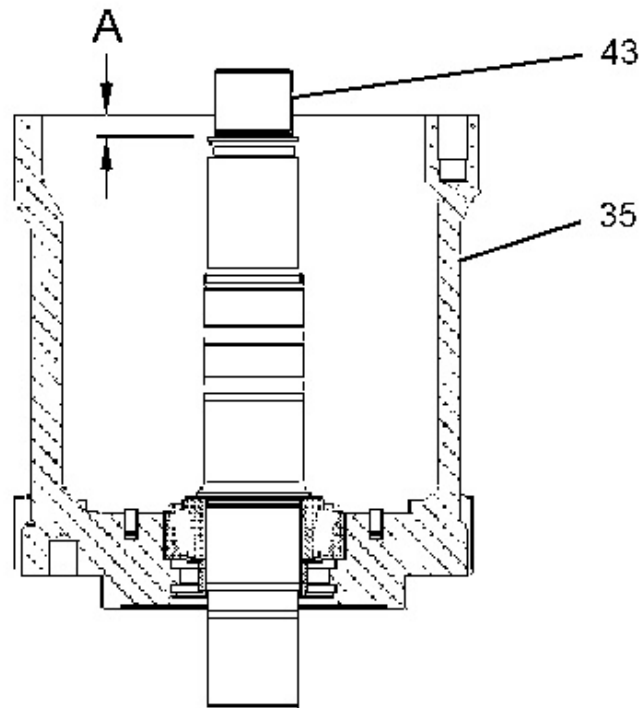


Illustration 3

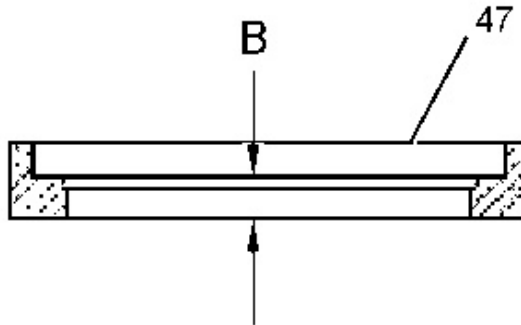
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3. Lower the temperature of bearing cup (66). Use Tooling (D) to install bearing cup (66) into housing (35).
4. If necessary, install pins (67) into housing (35).
5. Install cradle bearings (68) into housing (35).

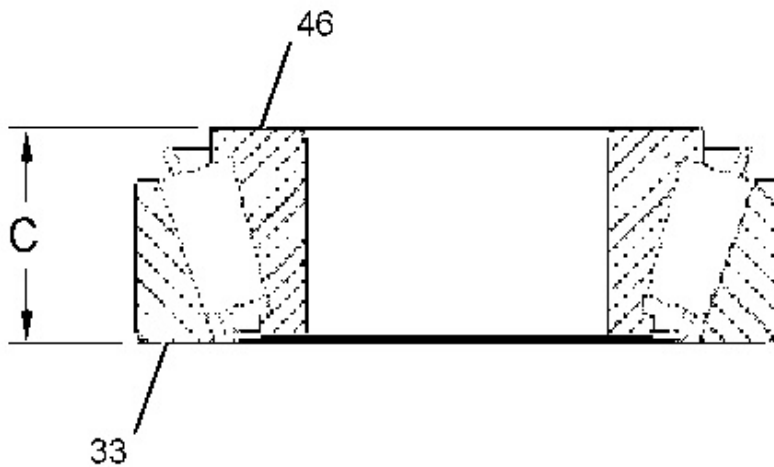
Note: Steps 6 through 14 are for determining the proper number of shims (34) (not shown) that will be installed.



6. Install shaft (43) into housing (35). Measure the distance from the shoulder on shaft (43) to the top of housing (35) and record Dimension (A) to the nearest 0.010 mm (0.0004 inch).
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7. Measure Dimension (B) and record Dimension (B) to the nearest 0.010 mm (0.0004 inch) on special washer (47).
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8. Measure Dimension (C) and record Dimension (C) to the nearest 0.010 mm (0.0004 inch) on bearing cone (46) and bearing cup (33).
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