



Service Repair Manual

Models

M315D WHEELED Excavator

Product: WHEELED EXCAVATOR

Model: M315D WHEELED EXCAVATOR K5E

Configuration: M315D Excavator K5E00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly

M315D, M315D Series 2, M315D2, M317D Series 2 and M317D2 Wheeled Excavators Machine Systems

Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i06804170

Main Hydraulic Pump - Assemble

SMCS - 5070-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1861	Retaining Ring Pliers	1
C	464-4892 ⁽¹⁾	Test Ring	1
	128-2746 ⁽²⁾⁽³⁾	Test Ring	1
D	129-3873 ⁽¹⁾	Measuring Hub	1
	129-3874 ⁽²⁾⁽³⁾	Measuring Hub	1
E	128-2744	Measuring Bell	1
F	-	Vernier Height Gauge	1
G	1P-0510	Driver Gp	1
H	464-4893 ⁽¹⁾	Alignment Plug	1
	128-2742 ⁽²⁾	Alignment Plug	1
	437-5508 ⁽³⁾	Alignment Plug	1
J	-	Loctite 242	-

⁽¹⁾ Use for 95 cc pumps.

⁽²⁾ Use for 130 cc pumps.

⁽³⁾ Use for 145 cc pumps.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

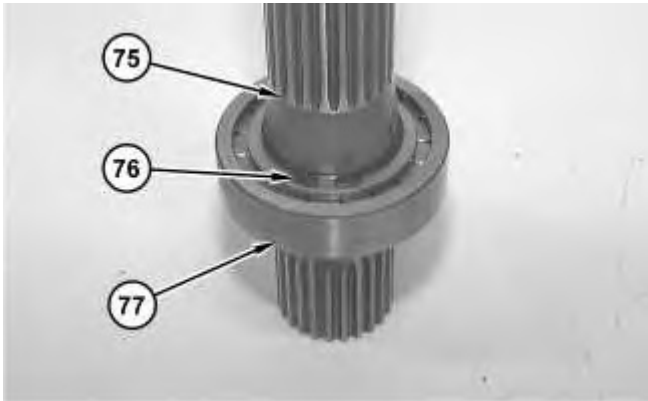


Illustration 1

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1. Use Tooling (A) to install bearing (77) to shaft (75). Raise the temperature of bearing (77). Install retaining ring (76) to shaft (75).

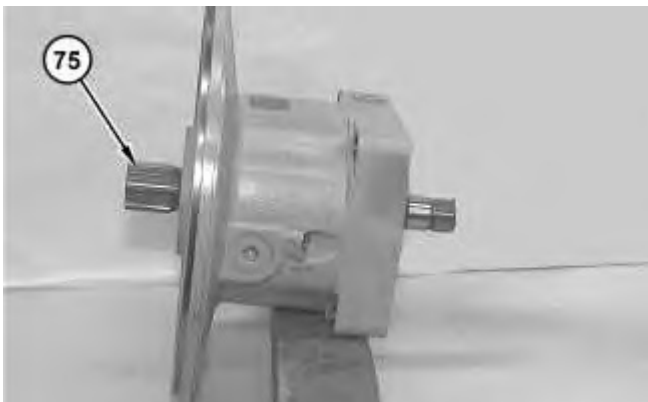


Illustration 2

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2. Install shaft (75) into the piston pump.
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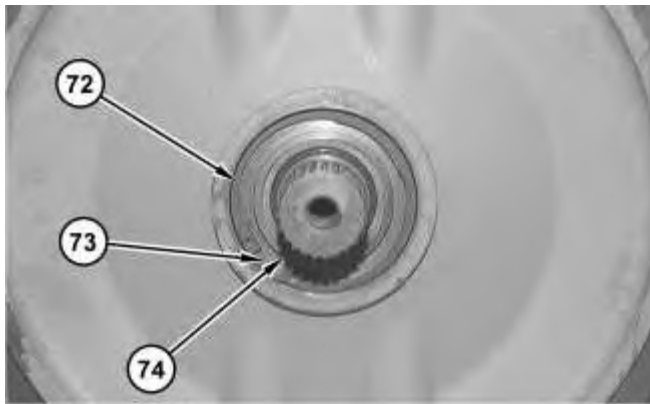


Illustration 3

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3. Use Tooling (A) to install retaining ring (74).
4. Use Tooling (G) to install seal (73).
5. Use Tooling (A) to install retaining ring (72).

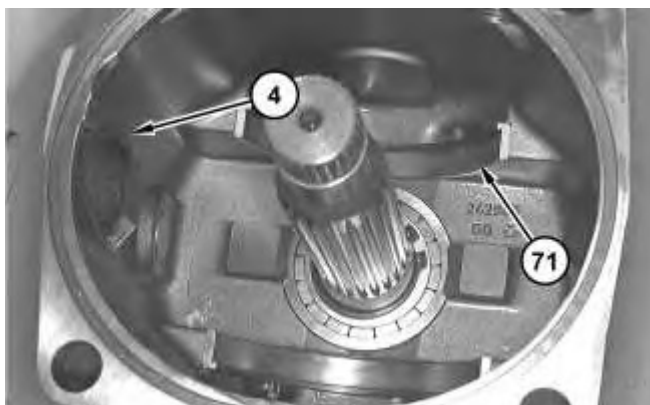


Illustration 4

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6. Install outer races (71) to piston pump (4).

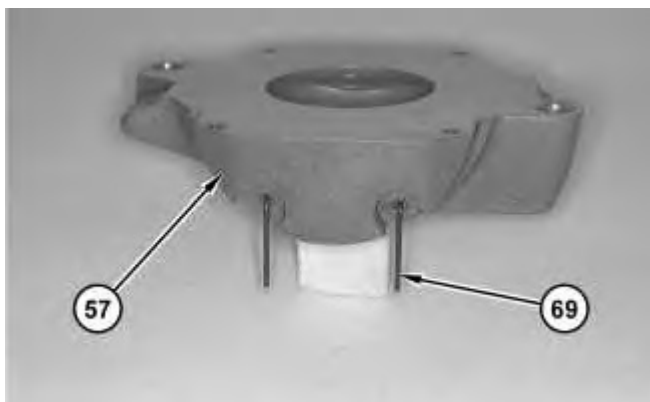


Illustration 5

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7. Install rods (69) to swashplate (57).

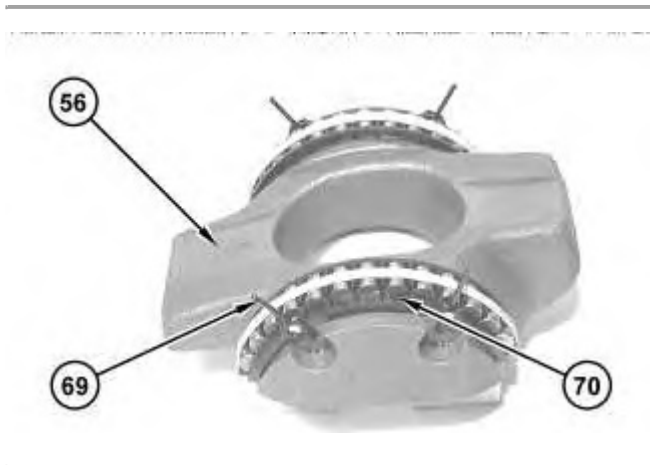


Illustration 6

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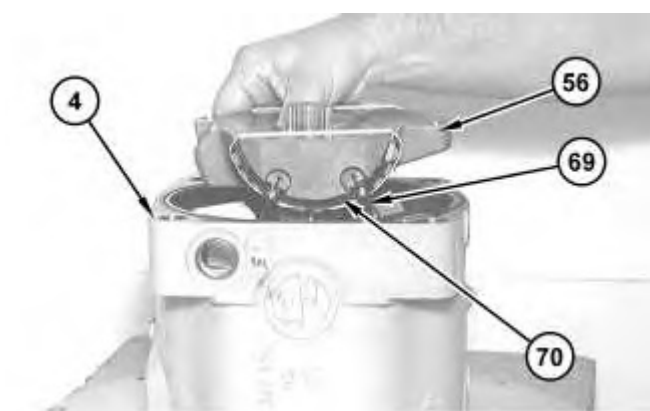


Illustration 7

g01313374

8. Install bearings (70) to swashplate (56). Install a rubber band to each of bearings (70). The rubber band will hold bearings (70) to swashplate (56).
9. Carefully install swashplate (56) to piston pump (4).



Illustration 8

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10. Cut the rubber band on swashplate (56).
-

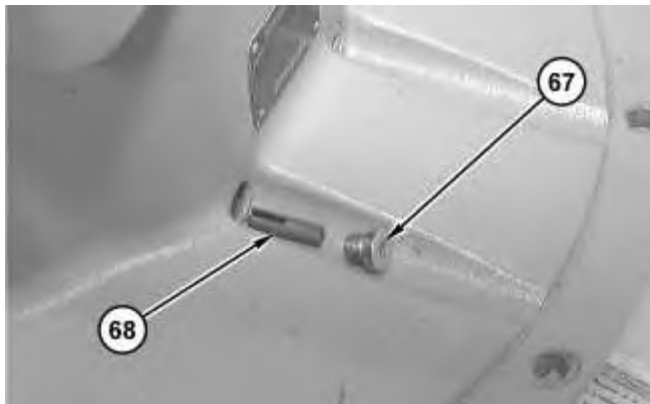


Illustration 9

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Note: Rods (68) must engage slotted pins (68).

11. Install plugs (67) and slotted pins (68).

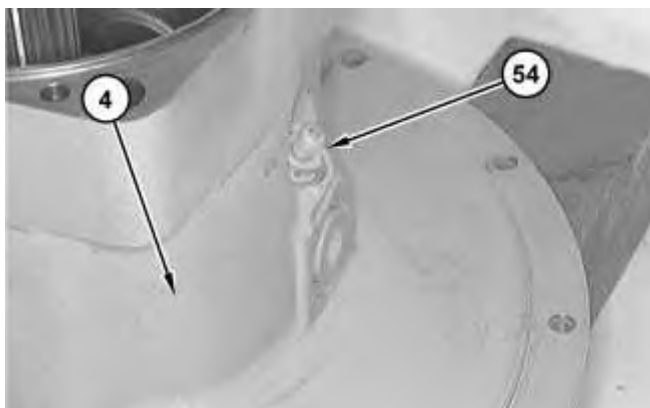


Illustration 10

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12. Install the maximum angle stop screw (54). Repeat for the opposite side of piston pump (4) to install the minimum angle stop screw.

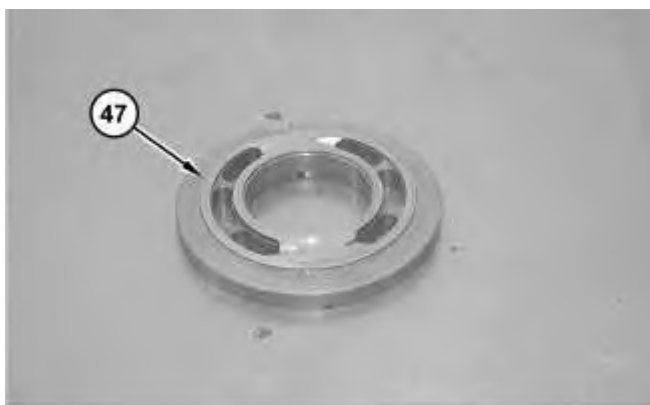


Illustration 11

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13. Place port plate (47) on a surface plate.

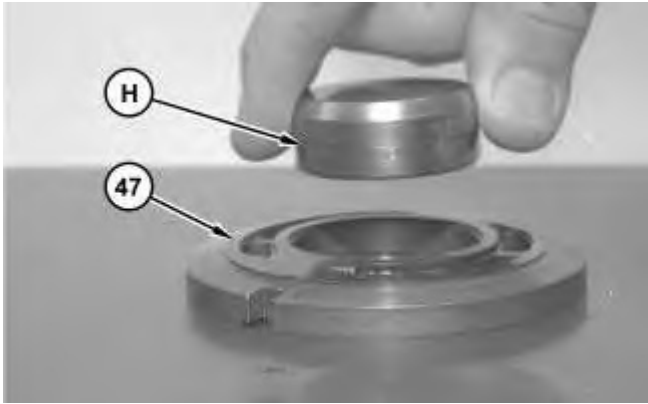


Illustration 12

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14. Install Tooling (H) to port plate (47).

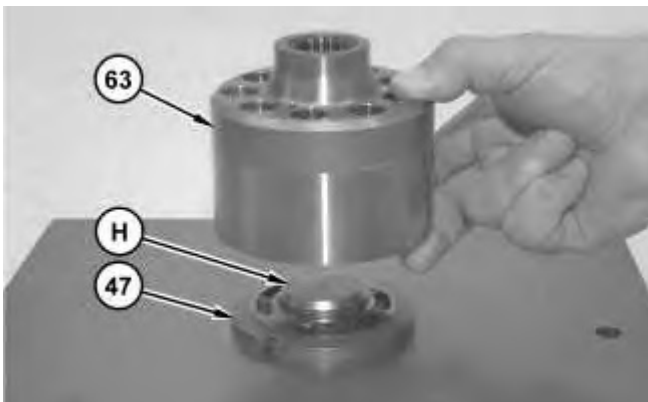


Illustration 13

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15. Install barrel (63) onto Tooling (H) and port plate (47).

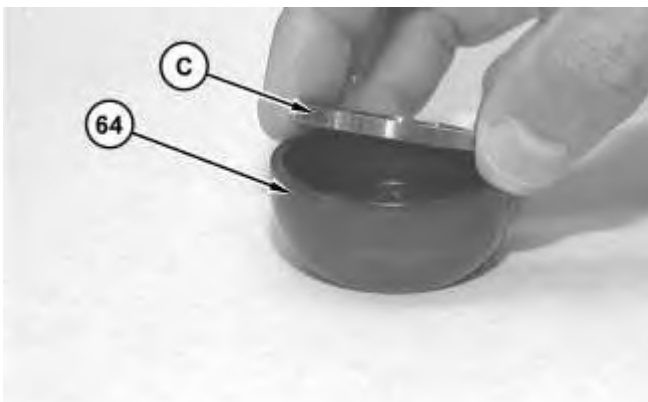


Illustration 14

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16. Install Tooling (C) to retainer (64). Shims and springs must be removed from retainer (64).

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