



Service Repair Manual

Models

314E LCR Excavator

Product: EXCAVATOR

Model: 314E LCR EXCAVATOR ZJT

Configuration: 314E LCR Excavator ZJT00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly 314E Excavator Machine Systems

Media Number -KENR9852-02

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i05200463

Final Drive and Travel Motor - Assemble

SMCS - 4050-016; 4351-016

Specification

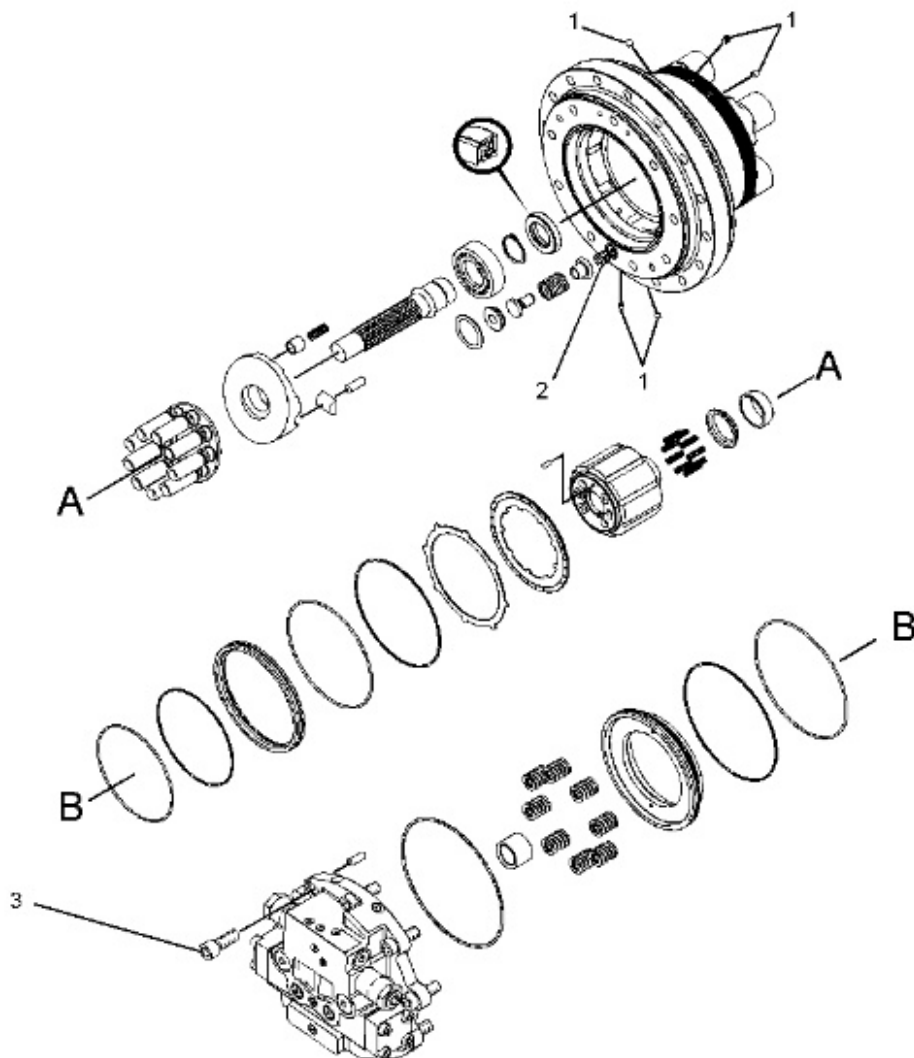


Table 1

Specifications for 357-1821 Piston Motor Gp			
Item	Qty	Part	Specification Description
Lightly lubricate the sliding surfaces with clean hydraulic oil.			
1	7	094-1882 Plug	Apply, Loctite high flex GM to the threads. Torque to 13 ± 2 N·m (115 ± 18 lb in).
2	1	7Y-4224 Orifice	Torque to 13 ± 2 N·m (115 ± 18 lb in).
3	9	8T-4944 Bolt	Torque to 294 ± 20 N·m (217 ± 15 lb ft). If bolts cannot be assembled, loosen the relief valve group and then tighten the relief valve group to 177 ± 18 N·m (130 ± 13 lb ft).

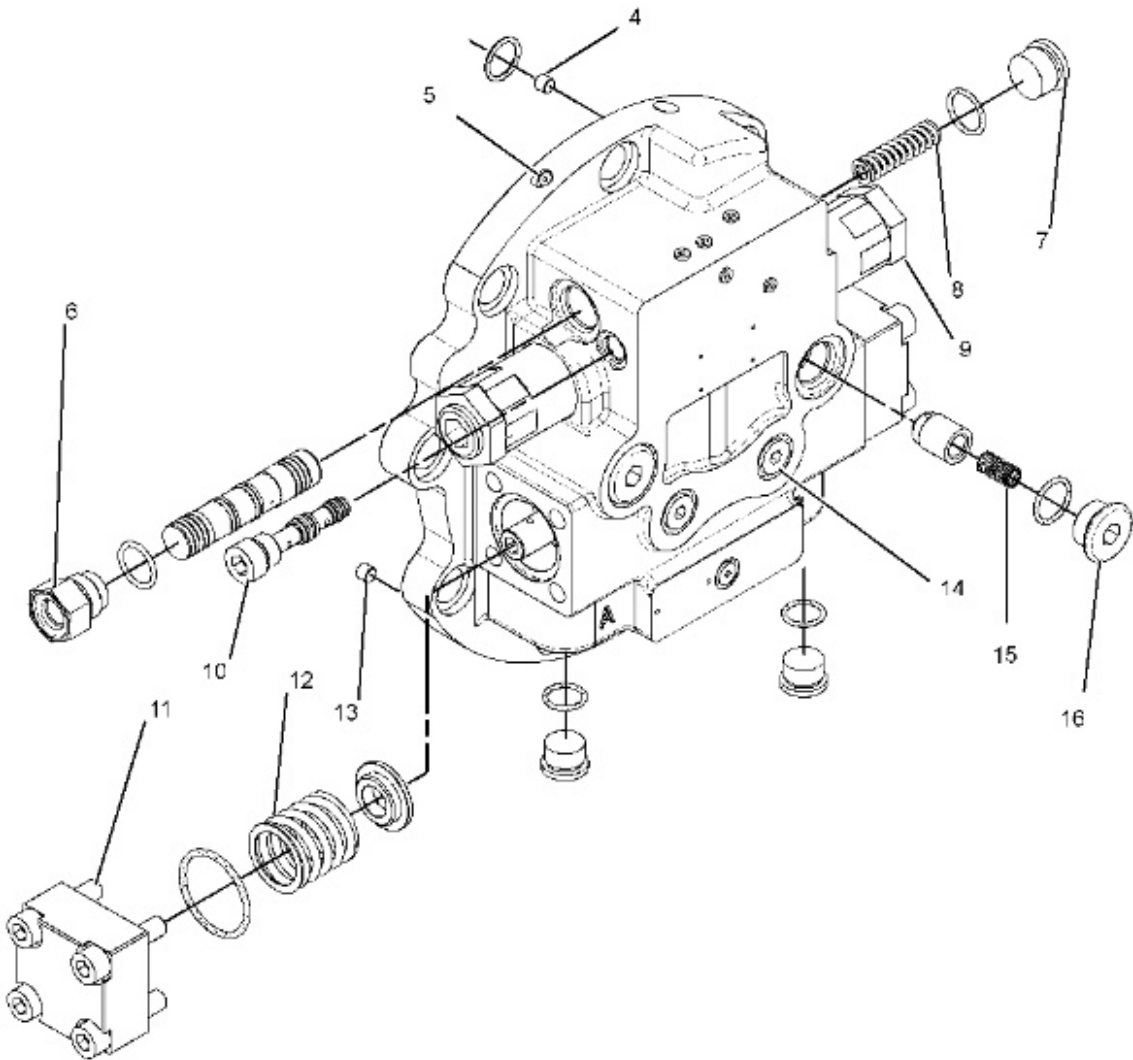


Table 2

Item	Qty	Part	Specification Description
4	2	7Y-4224 Orifice	Torque to 13 ± 2 N·m (115 ± 18 lb in)
5	1	094-1882 Plug	Torque to 13 ± 2 N·m (115 ± 18 lb in)
6	1	087-4786 Adapter	Torque to 78 ± 8 N·m (58 ± 6 lb ft)
7	1	9S-8006 O-Ring Plug	Torque to 78 ± 8 N·m (58 ± 6 lb ft)
8	1	165-5850 Spring	Free length is 50.7 mm (2.00 inch)
9	2	304-3961 Relief Valve Gp	Torque to 177 ± 18 N·m (130 ± 13 lb ft)
10	1	4T-1860 Shuttle Valve Gp	Torque to 32 ± 3 N·m (283 ± 27 lb in)
11	8	8T-9515 Bolt	Torque to 60 ± 5 N·m (44 ± 4 lb ft)
12	2	199-5152 Spring	Length under test force is 37 mm (1.5 inch). Test force is 214.7 ± 21.5 N (48.3 ± 4.8 lb) Free length after test is 49.1 mm (1.93 inch)
13	1	087-5631 Orifice	Torque to 13 ± 2 N·m (115 ± 18 lb in)
14	3	9S-8004 O-Ring Plug	Torque to 31 ± 3 N·m (274 ± 27 lb in)
15	2	119-5362 Spring	Length under test force is 19 mm (0.74803 inch). Test force is 2.50 ± 0.29 N (0.56 ± 0.07 lb) Free length after test is 20 mm (0.8 inch)
16	2	119-5364 Plug	Torque to 78 ± 8 N·m (58 ± 6 lb ft)

Assembly Procedure

Table 3

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	3
B	1P-2420	Transmission Repair Stand	1
E	1P-0510	Driver Gp	1
F	8H-0663	Bearing Puller Gp	1
G	1P-1863	Retaining Ring Pliers	1
H	9U-7346	Spanner Wrench As	1
K	1U-7558	Mounting Adapter Gp ⁽¹⁾	1
L	-	Loctite 271	-
M	-	Loctite High Flex GM	-
N	169-0503	Installation Kit	1

P	1U-6434	Duo-Cone Seal Installer As	1
Q	4C-3761	C-Clamp	2
R	FT-2766	Rolling Torque Bar	1
S	-	Loctite 272	-

⁽¹⁾ The bent plates for the mounting adapter may be modified so that the mounting adapter can be assembled to the housing.

Assembly Procedure for the Travel Motor

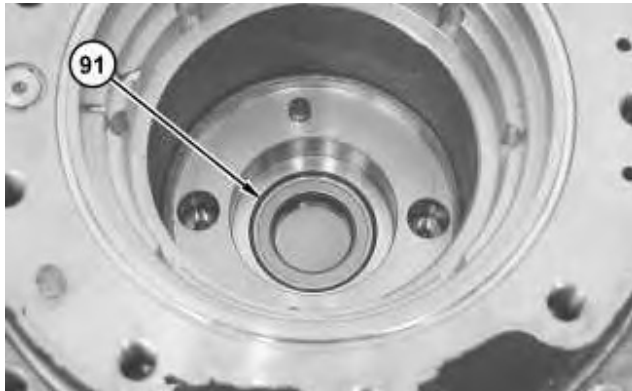


Illustration 3

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1. Use Tooling (E) to install lip seal (91) into the body assembly.

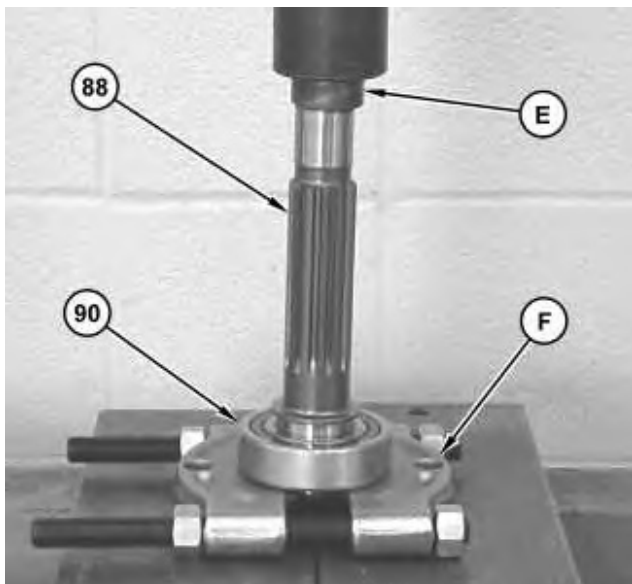


Illustration 4

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2. Use Tooling (E), Tooling (F), and a suitable press to install bearing assembly (90) onto shaft assembly (88).

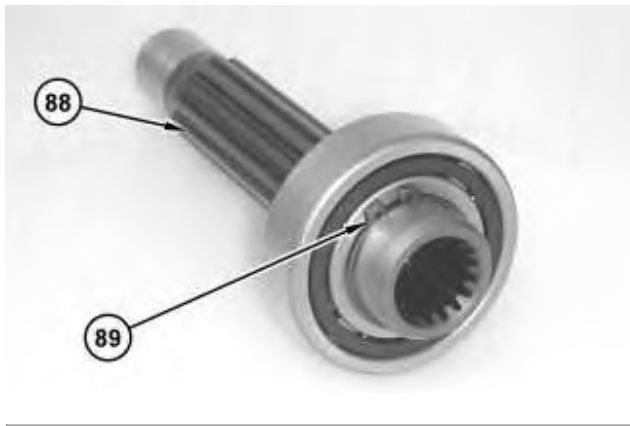


Illustration 5

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3. Use Tooling (G) to install retaining ring (89) on shaft assembly (88).

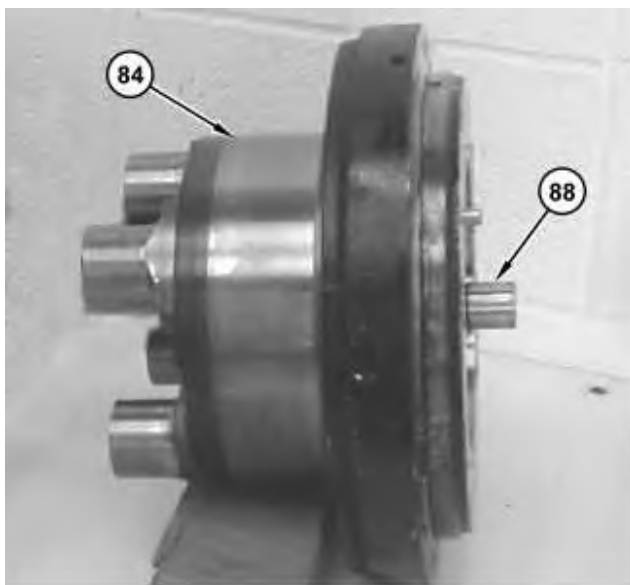


Illustration 6

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4. Use a suitable soft faced hammer to install shaft assembly (88) into body assembly (84).



Illustration 7

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5. Use two persons to position body assembly (84) and the shaft assembly onto Tooling (B). The total weight of body assembly (84) is approximately 42 kg (93 lb).
6. Use Tooling (N) to clean Duo-cone seal (85) before installation. Use Tooling (P) to install Duo-cone seal (85) onto body assembly (84). Refer to Disassembly and Assembly, "Duo-Cone Conventional Seals - Install".

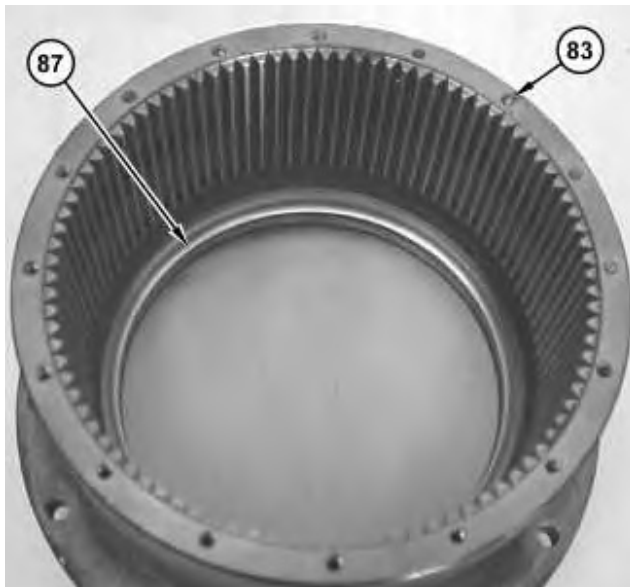


Illustration 8

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7. Lower the temperature of both bearing cups (87) in order to install both bearing cups (87) into housing (83).

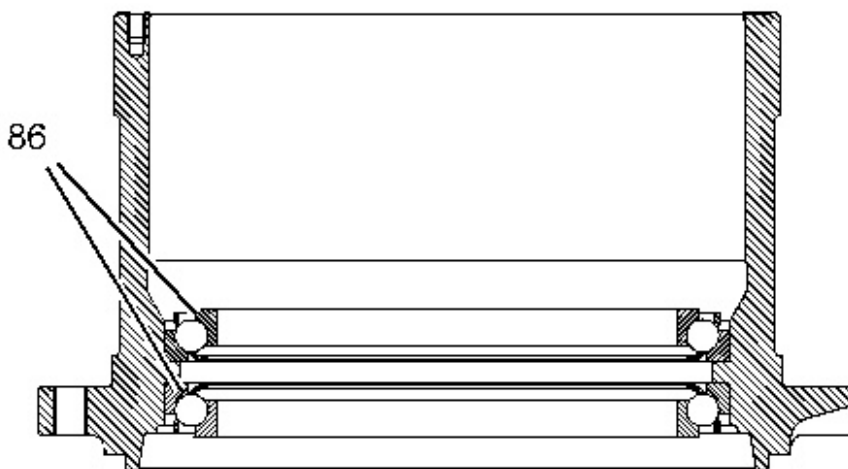


Illustration 9

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8. Use a suitable brass punch in order to install both bearings (86) in the housing assembly.
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