Service Manual

8040, 8045, 8050, 8055

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Dipper

Removal and Replacement

Removal

1 Remove the bucket.

2 If necessary remove the bucket ram.

3 Remove the locknut **A** and bolt **B**. Drive out the dipper ram pivot pin **C**. Separate the dipper ram eye end **D** from the dipper pivot **E**. Position a block of timber on which to rest the dipper ram eye end.

4 Attach suitable lifting equipment through the dipper ram pivot pin location and support the dipper **J**.

5 Remove the locknut **F** and the bolt **G**. Drive out the pivot pin **H**.

6 Using suitable lifting equipment, remove the dipper from the machine.

Table 1. Approximate Dipper Dimensions and Weights

Machine	Overall Length	Weight
8040Z	1525 mm	97 kg
8045Z	1725 mm	119 kg
8055Z	1500 mm	118 kg
8055Z	1725 mm	128 kg
8055Z	1900 mm	138 kg

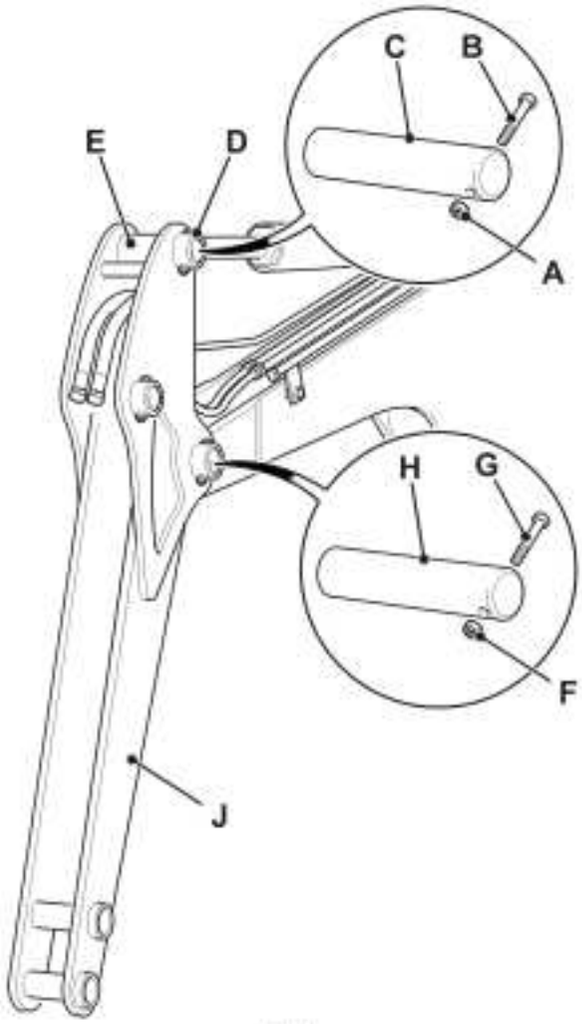


Fig 1.

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Tier 2 Machines Built September 2006 to January 2008

Component Key

Machine	After Serial Number
8040Z	1056121
8045Z	1057328

1	Battery
2	Battery Lead (Earth)
3	Battery Lead (Positive)
4	Key Switch
5	Starter Solenoid
6	Starter Motor
7	Glow Plug Common Rail
8	Alternator
9	E.S.O.S.
10	Instrument Panel
11	Buzzer
12	High Coolant Temperature Indicator LED
13	Water Temperature Switch
14	Low Engine Oil Pressure Indicator LED
15	Engine Oil Pressure Switch
16	Blocked Air Filter LED
17	Blocked Air Filter Switch
18	Not Used
19	Excitation Resistor
20	Alternator Charge Indicator LED
21	Hourmeter
22	Fuel Gauge
23	Fuel Sender
24	Internal Illumination
25	Not Used
26	Auxiliary Indicator LED
27	2 Speed Indicator LED
28	Glow Plug Indicator LED
29	SAE Control Option Indicator LED
30	2 Speed Switch (Latching)
31	2 Speed Solenoid
32	Servo Switch (Latching)
33	Servo Solenoid
34	Wash/wipe Switch
35	Wash/wipe Motor
36	Washer Pump
37	Auto Idle ECU
38	Auto Idle Throttle Set Potentiometer
39	Auto Idle Throttle Sense Potentiometer
40	Auto Idle Throttle Control Motor
41	Auto Idle Polarity Relay
42	Auto Idle Switch
43	Auto Idle Pressure Switch
44	Work Lights Switch
45	Boom Work Light
46	Front Left Work Light
47	Front Right Work Light
48	Rear Work Light
PF1	Primary Fuse 1
PF2	Primary Fuse 2
F1	Fuse 1 - ESOS (Engine Shut-Off Solenoid)
F2	Fuse 2 Servo Control, Instruments, Two Speed Tracking, Auxiliary/Swing Changeover, Switch Illumination
F3	Fuse 3 - Wash/Wipe
F4	Fuse 4 - Auto Idle
F5	Fuse 5 - Front Right and Left Worklights, Boom Light
F6	Fuse 6 - Rear Worklights

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Track Gearbox

Dismantling

⇨ (1-76).

1 Remove the snap ring **1**, cover **2** and 'O' ring **3**. Discard 'O' ring **3**.

2 Remove the thrust pad **4** and shaft **5**.

3 Remove the carrier assembly **6** and thrust washer **7**.

Note: *All components of carrier assembly **6** are non-serviced parts (NSP). The carrier assembly need not be dismantled other than for inspection. If this is not required, ignore steps 4 and 5.*

4 Remove snap ring **8** and sun gear **9** from the carrier **17**.

5 Remove snap ring **10**, thrust washer **11**, needle bearings **12**, gear **13** and thrust washer **14** from each of the shafts **16** on the carrier assembly.

6 Do not remove roll pins **15** or shafts **16**.

7 Remove snap ring **18**, thrust washer **19**, gear **20**, needle bearings **21**, sleeve **22** and thrust washer **23** from each of the shafts **B**.

8 Remove snap ring **24** and separate the hydraulic motor **30** from the body **25**.

Note: *It may be necessary to clamp the hydraulic motor and body flanges together to relieve the load and allow removal of the snap ring.*

9 Do not try to remove bearings **31** or **33** as they are NSP and a press would be required for removal and replacement.

10 Remove seal ring **26** and remove and discard 'O' ring **27** from the hydraulic motor **30**.

11 Remove seal ring **28** and remove and discard 'O' ring **29** from the body **25**.

12 Remove plugs **34** from cover **2**.

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