PART NO. WDBR50-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX
160LC-6
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODBR50-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDBR50-EN
Workshop Manual	: Vol. No.WDBR50-EN
Engine Manual	: Vol. No.EDBR50-EN

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Unit: mm

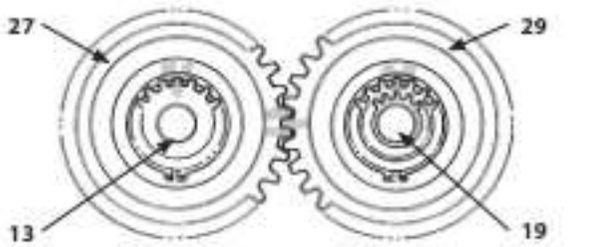
	Part Name	Standard	Allowable Limit	Remedy
G	Pin	65	64.0	Replace
	Boss (Arm)	65	66.5	
	Bushing (Bucket Cylinder)	65	66.5	
H	Pin	71	70.0	
	Boss (Link B)	71	72.5	
	Bushing (Link A)	71	72.5	
	Bushing (Bucket Cylinder)	71	72.5	
I	Pin	71	70.0	
	Boss (Link B)	71	72.5	
	Bushing (Arm)	71	72.5	
J	Pin	80	79.0	
	Boss (Bucket)	80	81.5	
	Bushing (Link A)	80	81.5	
K	Pin	80	79.0	
	Boss (Bucket)	80	81.5	
	Bushing (Arm)	80	81.5	

IMPORTANT: When replacing HN bushing for the front attachment, install it by using a press.

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CAUTION: The pump casing (51) assembly weight: 71 kg

22. Install eyebolts (M12, Pitch 1.75 mm) (2 used) to the socket bolt (71) holes (2 places) of pump casing (51). Attach nylon slings onto the eyebolts. Hoist and remove the pump casing (51) assembly from gear casing (47). Shafts (13, 19) and gears (27, 29) are removed with pump casing (51) together. Place pump casing (51) with the regulator mounting surface up.
23. Remove spring pins (48) (2 used) and gasket (28) from gear casing (47).
24. Put the matching marks on the meshed position of the splines on shafts (13, 19) and gears (27, 29). Put the matching marks on the meshed position of gears (27, 29).



W137-02-04-007

25. Remove retaining rings (26) (2 used) from shafts (13, 19). Remove gears (27, 29) from shafts (13, 19).

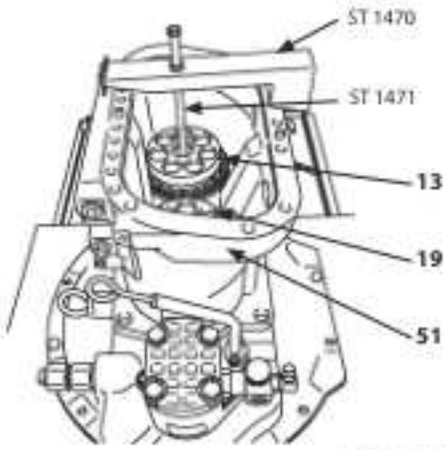
CAUTION: The pump casing (51) assembly weight: 65 kg

26. Attach nylon slings onto pump casing (51). Hoist and place the pump casing (51) assembly with the selector head (66) mounting side down.
27. Remove plug (24) from pump casing (51). Remove O-ring (23) from plug (24).

: 19 mm

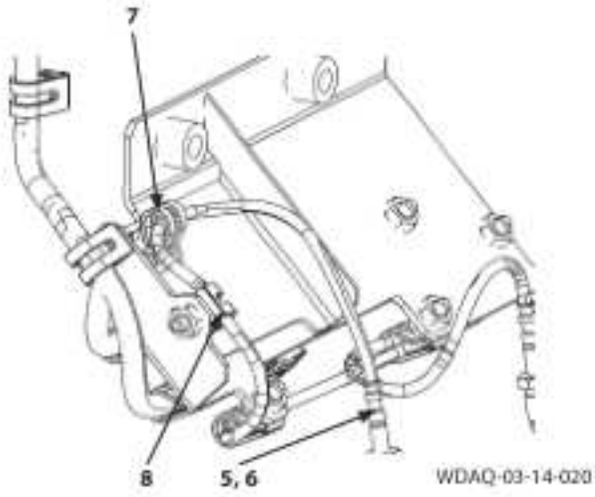
CAUTION: The pump casing (51) assembly weight: 65 kg

28. Attach nylon slings onto pump casing (51). Hoist and place the pump casing (51) assembly on wooden blocks with the pump transmission side down. Use wooden blocks (over 100 mm square).
29. Remove the shaft (13, 19) assembly from pump casing (51) by using the special tools (ST 1470, ST 1471).



W178-02-04-054

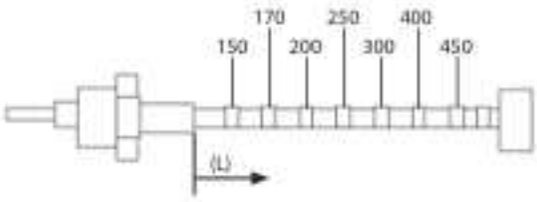
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WDAQ-03-14-020

Clips (7, 8) Positions for Wire Harness (6)

Distance (L) from Sensor (5) (mm)	150	170	200	250	300	400	450
Color of Mark	Yellow	Red	White	Yellow	Red	White	Red
Clip No.	(7)	-	(8)	-	-	-	-



WDCK-03-14-002

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