PART NO. W4EK-E-01

HITACHI

Reliable solutions

Workshop Manual

ZW 30 40 50

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual : Vol. No.T4EK-E

Workshop Manual : Vol. No.W4EK-E

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Removal

CAUTION: Bleed air from the hydraulic circuit before doing any work. (Refer to W1-1-3.)

CAUTION: Attach an identification tag onto the disconnected hose and the pipe for assembling.

1. Remove SEMS bolts (28) (4 used).
   Remove cover (27) from front chassis (26).

   : 17 mm

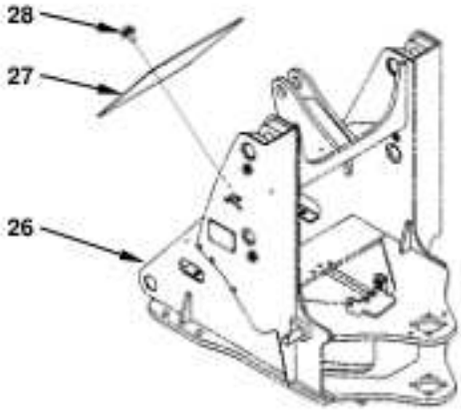
2. Remove bolts (4) (2 used), nuts (8) (4 used) and washers (7) (2 used).
   Remove clamps (6) (2 used) and plate (5), which secure hydraulic hoses (9, 10).

   : 17 mm

3. Disconnect the harness of the bucket auto leveler proximity switch at the connector (20) part.

4. Remove bolts (11), lock spring washers (12) and washers (13) (2 used for each), and remove bolt (17), washers (16) (2 used), lock spring washer (15) and nut (14).
   Remove cover (18) from front chassis (26).

   : 17 mm



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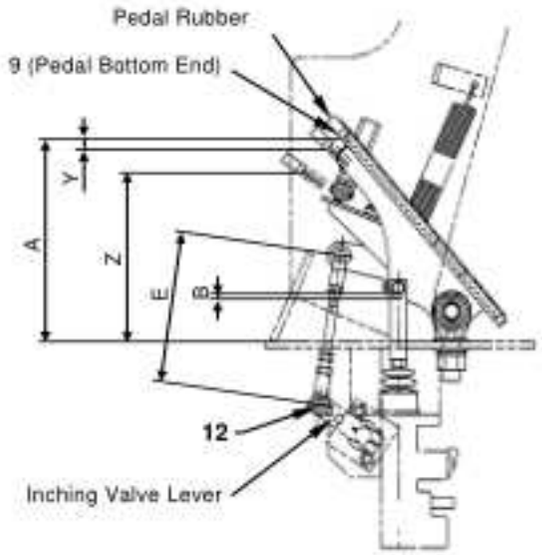
Assembly Standard

Adjust dimension A (fully up) with stopper bolt (20) so that dimension A is 192 ± 5 mm (7.56 ± 0.20 in).

Reference:
Dimension B: 5 mm (0.20 in).
Dimension E:150 mm (5.91 in).

Check for dimensions A, Y and Z after bleeding air from the brake.

Dimension A (free up):
2 ± 5 mm (7.56 ± 0.20 in).
Dimension Y (when the brake begins to be applied.)
10 mm (0.39 in).
Dimension Z (fully applied):
160 mm (6.30 in) or more.



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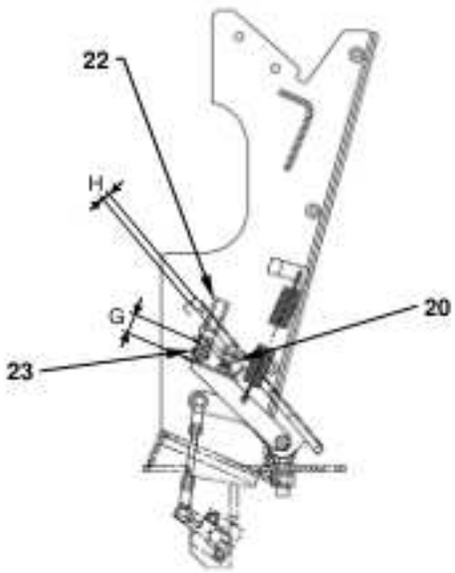
NOTE: There are three holes with the inching valve lever. Connect rod end (12) to the hole at the center.

Installation and Adjustment of Brake Light Switch

Adjust brake light switch (22) mounting positions (G, H).
Tighten attached lock nut (23).

: 19 mm
: 7.8 to 9.8 N·m
(0.8 to 1.0 kgf·m, 0.03 to 0.04 lbf·ft)

Reference:
Dimension G: 42 mm (1.65 in)
Dimension H: within 10 – 15 mm (0.39– 0.59 in)



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Disassembly

1. Remove socket bolt (10) from lever (9).
   Remove lever (9) and spring pin (3) from shaft (2).

   : 4 mm

2. Remove snap ring (5) and shim (4) from shaft (2).
   Remove shaft (2) from body (1).

3. Remove O-ring (7) from shaft (2).

4. Remove O-ring (8) from body (1).

Assembly

1. Install O-ring (8) to body (1).

2. Install O-ring (7) to shaft (2).

3. Install shaft (2) to body (1).
   Install shim (4) and snap ring (5) to shaft (2).

4. Install spring pin (3) and lever (9) to shaft (2) with socket bolt (10).

   : 4 mm

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