PART NO. W4L1-E-00

HITACHI

Workshop Manual

ZW

65

75

95

Wheel Loader

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GENERAL

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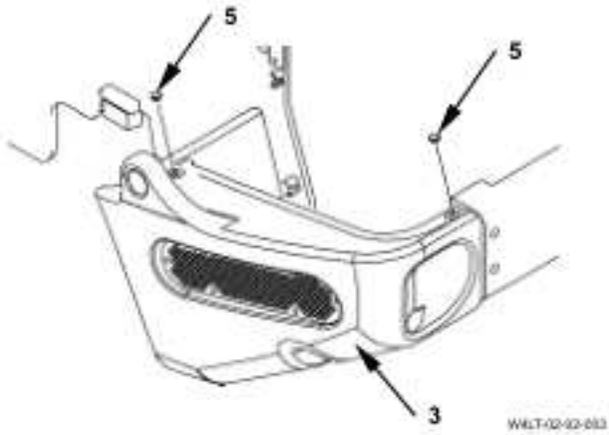
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Installation

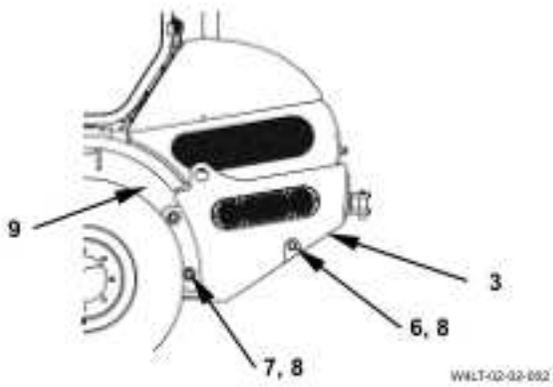
CAUTION: Counterweight (left) (3) and counterweight (right) (2) weight:
ZW65: (left) (3) 264 kg (585 lb), (right) (2) 249 kg (550 lb)
ZW75: (left) (3) 303 kg (670 lb), (right) (2) 286 kg (635 lb)
ZW95: (left) (3) 448 kg (990 lb), (right) (2) 443 kg (980 lb)

1. Install eyebolts (M20, Pitch 2.0 mm) (2 used) to the plug (5) hole (2 places) of counterweight (left) (3).

2. Attach a wire rope onto counterweight (left) (3). Hoist counterweight (left) (3). Fit counterweight (left) (3) to the mounting hole of rear frame (9).



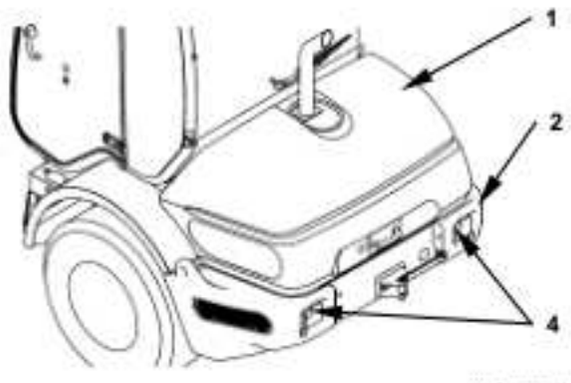
3. Apply LOCTITE #262 onto bolts (6) and bolts (7). Install counterweight (left) (3) to rear frame (9) with bolt (6), bolts (7) (2 used), and washers (8) (3 used).
   : 30 mm
   : 440 N·m (44 kgf·m, 320 lbf·ft)



4. Install counterweight (right) (2) in the same way.

5. Connect connectors of rear combination lights (4) (2 used).

6. Install engine hood (1). (Refer to REMOVAL AND INSTALLATION OF ENGINE HOOD on W2-6-1.)



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Disassembly of Regulator

1. Remove solenoid valve (2) from control part assembly (3).

2. Remove socket bolts (4) (4 used) from control part assembly (3). Remove control part assembly (3) from housing (1). Remove O-ring (5) (3 used) from housing (1).
   : 6 mm

NOTE: Remove control part assembly (3) with careful attention to the force of springs (15, 17).

3. Remove spring (17), collar (16), spring (15), and collar (14) from control part assembly (3).

4. Remove O-rings (18) (2 used), guides (21) (2 used), and check valves (22) (2 used) from housing (1). Remove O-rings (19) (2 used), and backup rings (20) (2 used), from guides (21) (2 used).

5. Remove socket bolts (12) (4 used) from cover (13). Remove cover (13) from housing (1). Remove O-Ring (11) from cover (13).
   : 10 mm

6. Remove O-ring (10) from housing (1).

7. Remove socket bolt (9) from piston (7). Remove piston (7) from housing (1). Remove piston rings (8) (2 Used) from piston (7).
   : 12 mm

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REMOVAL AND INSTALLATION OF STEERING VALVE

CAUTION: In order to release the hydraulic pressure in the steering hydraulic circuit, stop the engine and turn the steering wheel to the right and the left several times. The steering wheel turns heavily when the hydraulic pressure is released.

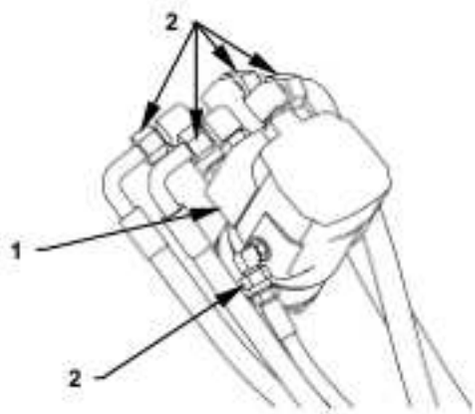
Preparation

1. Park the machine on a level and solid surface. Operate the steering cylinder to the stroke end and lower the bucket onto the ground horizontally.

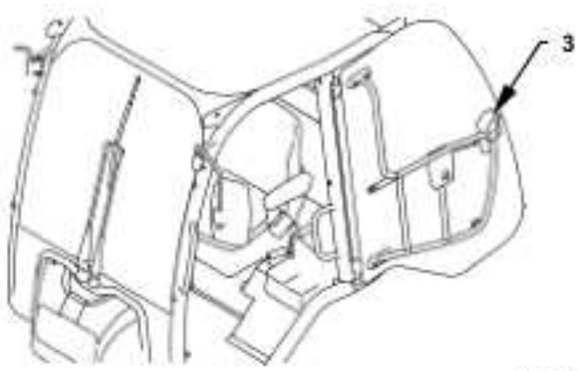
2. Place a wheel stoppers in front of and behind the wheels in order to secure the machine.

Removal

1. Disconnect hoses (2) (5 used) from steering valve (1). Cap the open ends. Attach an identification tag onto the disconnected hoses for assembling.
   : 19 mm, 22 mm, 27 mm



2. Open door (3).



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