Manual No. : KM-CCBE
Vol. No. : WCCBE-00

# Workshop Manual

## ZAXIS 180W

## Wheeled Excavator

Service Manual (Manual No. KM-CCBE) consists of the following three separate volumes;

| | |
|---|---|
| Technical Manual (Operational Principle) | : Vol. No. TOCCBE |
| Technical Manual (Troubleshooting) | : Vol. No. TTCCBE |
| Workshop Manual | : Vol. No. WCCBE |

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# SECTION 1
# GENERAL



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## REMOVE AND INSTALL COUNTER-WEIGHT

**Removal**

**CAUTION: Counterweight Weight: 4000 kg (8820 lb)**

1. Remove caps (1) from upper counterweight (2). Install FLENO LINKBOLTs® to counterweight (2).

*NOTE: FLENO LINKBOLTs® specification (B-36: M36, Pitch 4.0)*

2. Lift and hold counterweight (2).

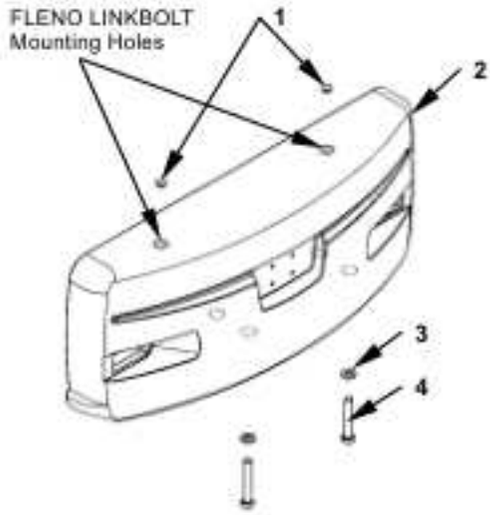
3. Remove counterweight mounting bolts (4) (4 used).
: 50 mm

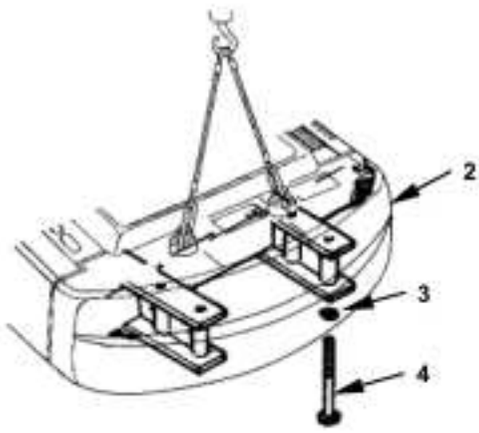
**IMPORTANT: The wire of combination lamp has been connected to back of counterweight (2). Before remove counterweight (2), disconnect the wire.**

**CAUTION: When disconnecting wire take care not to get hands caught between counterweight (2) and frame.**

4. Lift and dislocate counterweight (2) to backward approx. 200mm (7.9 in). Remove connectors of both side combination lamps.

5. Lift counterweight (2) off the frame.






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## MAINTENANCE STANDARD

| Parts Name | | Allowable Limit (basis of judgement) | Remedy |
|---|---|---|---|
| Bushing | | 1. Wear more than 0.2 mm (0.008 in) | Replace |
| | | 2. Scored, abnormal wear | Replace |
| | | 3. Uneven wear (wear range is less than 180°)<br> | Replace |
| Body, Spindle | Sliding surface of sealed part | Scored or something hurt it. | Replace |
| | Sliding surface of body and spindle except sealed part | 1) Scored more than 0.1 mm (0.004 in). | Replace |
| | | 2) Scored less than 0.1 mm (0.004 in) deep. | Repair with oil stone |
| | Sliding surface of plate | 1) Wear more than 0.5 mm (0.02 in) deep.<br>Abnormal wear. | Replace |
| | | 2) Wear less than 0.5 mm (0.02 in) deep. | Repair to smooth |
| | | 3) Scored less than 0.5 mm (0.02 in) deep and able to repair. | Repair to smooth |
| Cover | Sliding surface of plate | 1) Wear less than 0.5 mm (0.02 in). | Replace |
| | | 2) Wear less than 0.5 mm (0.02 in). | Repair to smooth |
| | | 3) Scored less than 0.5 mm (0.02 in) and able to repair. | Repair to smooth |



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## HYDRAULIC CIRCUIT PRESSURE RELEASE PROCEDURE

*NOTE: Do not start the engine. Operate pilot pump with the power from battery to deliver pilot pressure to the spool of control valve.*

1. Push pilot control shut-off lever (1) forward (UNLOCK position).
2. Pull engine stop knob (2) fully out and secure it using special tool (ST 7334).

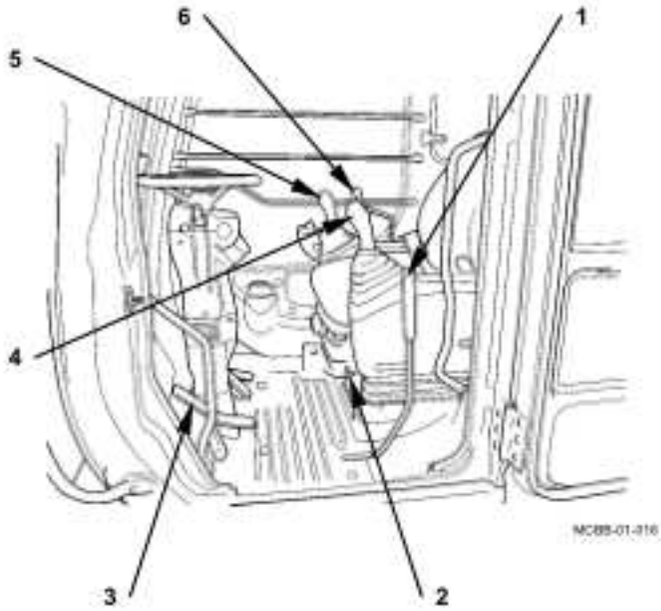
**IMPORTANT: Battery will deplete. Be sure to operate key switch for short period.**

3. Turn the key switch to START position and operate the lever for releasing pressure from hydraulic circuit 4 to 5 times.

| Releasing Circuit | Operating Lever |
|---|---|
| Boom/Bucket | Right Control Lever (5) |
| Arm | Left Control Lever (4) |
| *Positioning/ Auxiliary | Attachment Pedal (3) |
| *Stabilizer/Blade | Stabilizer/Blade Lever (6) |

*NOTE: *: Optional*

4. Push engine stop knob (2) in.



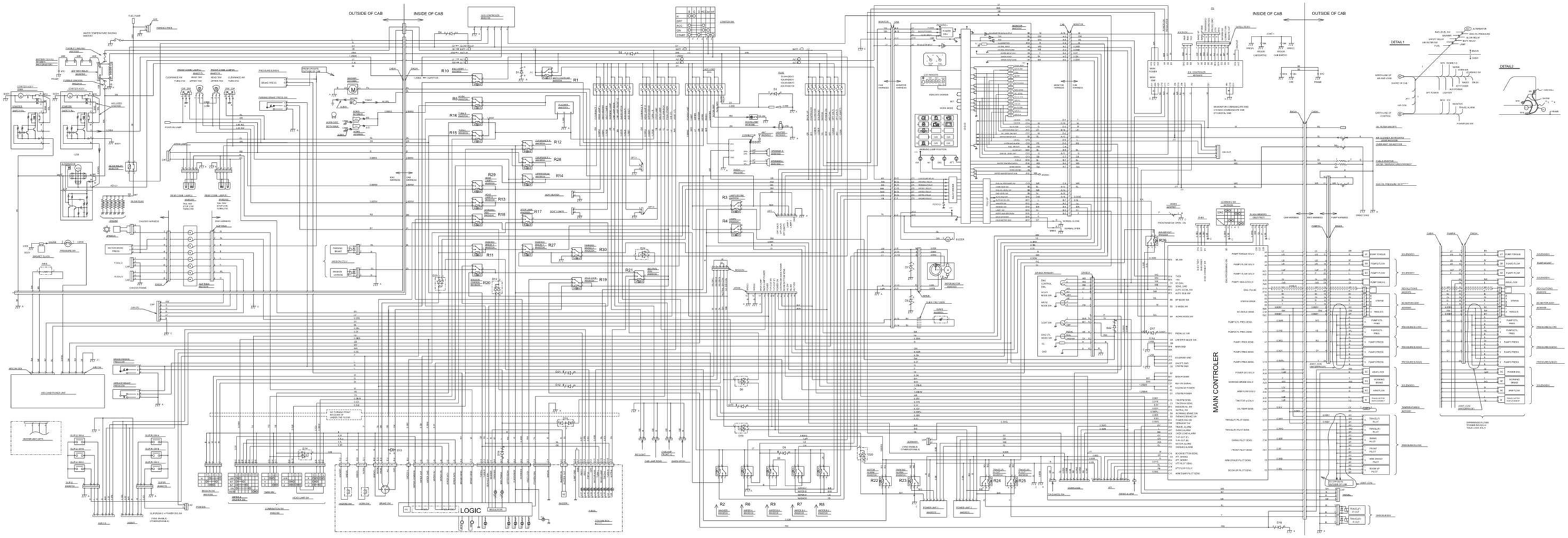



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Attach to Vol. No. : TTCABE-00, TTCCBE-00

# ZAXIS 130W/160W/180W/210W ELECTRICAL CIRCUIT DIAGRAM (ALL)

⚠ CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing,be sure to consult the Parts Catalog.






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