



## Section B

# Body and Framework

[Section 1 - General Information](#)

[Section 2 - Care & Safety](#)

[Section 3 - Maintenance](#)

[Section B - Body and Framework](#)

[Section C - Electrics](#)

[Section E - Hydraulics](#)

[Section J - Tracks](#)

[Section K - Engine](#)



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Sample manual. Download All pages at

<https://www.arepairmanual.com/downloads/jcb-htd5-tracked-dumpster-service-repair-manual/>

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# Section B - 1

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<b>Contents</b>	<b>Page No.</b>
<b>Engine Cover</b>	
Removal and Replacement .....	B-1
<b>Skip</b>	
Removal and Replacement .....	B-3
<b>Skip Mechanism</b>	
Removal and Replacement .....	B-5
<b>Hydraulic Tank</b>	
Removal and Replacement - up to machine no. 1360211 .....	B-9
Removal and Replacement - from machine no. 1360212 .....	B-10



# Section B - 1

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Contents

Page No.

# Engine Cover

## Removal and Replacement

### Removal

- 1 Open the cover and release the cover check wire.
- 2 On machines with Yanmar engines, disconnect the wiring harness at the ignition switch.
- 3 On early machines, pull the cover backwards at the base to release it from the machine by separating the hinge.
- 4 On later machines and machines fitted with a crash bar, unscrew the two hinge retaining bolts at **A** and lift the cover away from the machine.

### Replacement

- 1 On early machines, push the cover hinge securely onto the machine frame.
- 2 On later machines and machines fitted with a crash bar, secure the cover with the two hinge retaining bolts at **A**. Close the cover and check the latch engagement and function. Adjust the hinge bracket up or down on the slotted holes as required and tighten the bolts.
- 3 On machines with Yanmar engines, re-connect the wiring harness to the ignition switch.
- 4 Connect the cover check wire and close the cover.

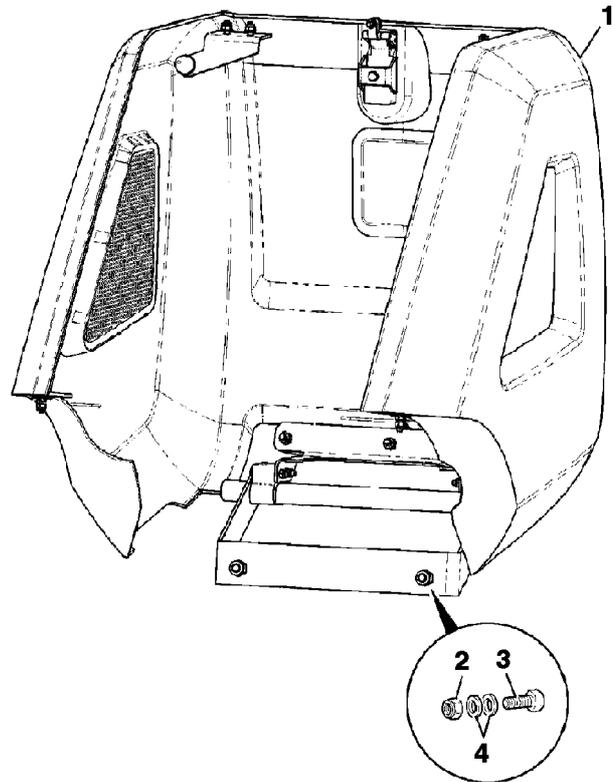


Fig 1.



## Section B - Body and Framework Engine Cover

Removal and Replacement

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# Skip

## Removal and Replacement

### Removal

- 1 Position the machine on firm level ground and fully raise the skip.
- 2 Place a sling securely around the skip **A** and attach to a suitable hoist.
- 3 Support the tilt ram **B**. Remove capscrew **C** and drive out ram rod end pivot pin **D**.
- 4 Operate the skip tilt hydraulic service to retract the ram and lower the ram onto the frame.
- 5 Unscrew nut **E** and remove with washer **F**. Drive out the pivot pin **G**.
- 6 Lift the skip away from the machine.

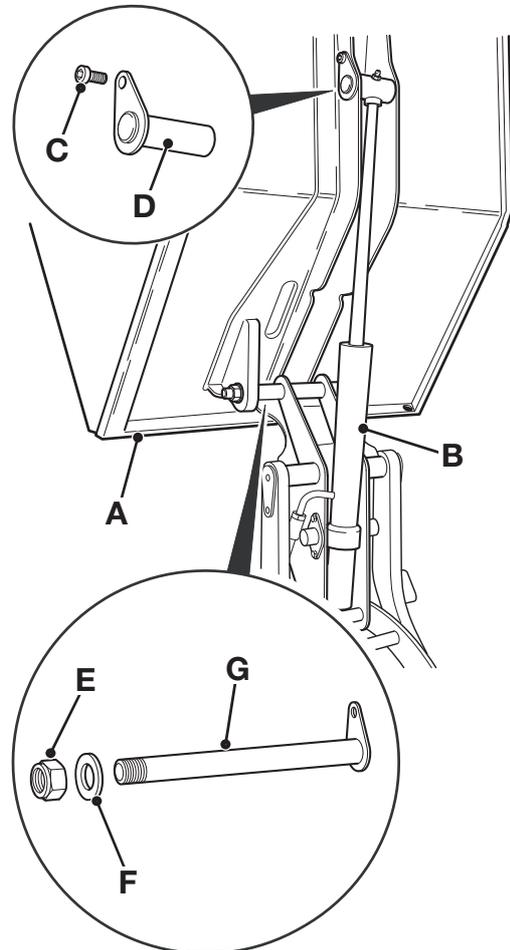


Fig 2.

### Replacement

- 1 Lift the skip and position on the machine so that the pivot holes are aligned.
- 2 Drive in pivot pin **G** taking care to locate the locking tab.
- 3 Assemble washer **F** and tighten nut **E**.
- 4 Start the engine and, whilst lifting the tilt ram upwards, operate the tilt control lever to extend the ram until the rod end pivot hole aligns with the hole in the skip.
- 5 Drive in pivot pin **D** and secure with capscrew **C**.
- 6 Remove the sling.
- 7 Grease the skip and ram pivots and then check for correct operation of the skip tilt function.



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# Skip Mechanism

## Removal and Replacement

### General Notes

When removing all the components of the lift mechanism from the machine it is recommended that the procedure should be done in the sequence given, i.e. remove the link first followed by the outer arms and then the inner arms.

Take care to support the mechanism as necessary during removal and replacement using suitable wooden blocks and use a crane and sling to lift the components away from the machine.

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### WARNING

#### Lifting Equipment

**You can be injured if you use faulty lifting equipment. Make sure that lifting equipment is in good condition. Make sure that lifting tackle complies with all local regulations and is suitable for the job. Make sure that lifting equipment is strong enough for the job.**

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INT-1-3-7

After refitting the components to the machine, grease all pivot points → [Lubricants and Capacities \( 3-8\)](#).

Start the engine and operate all services to check for hydraulic oil leaks and correct function of the mechanism.

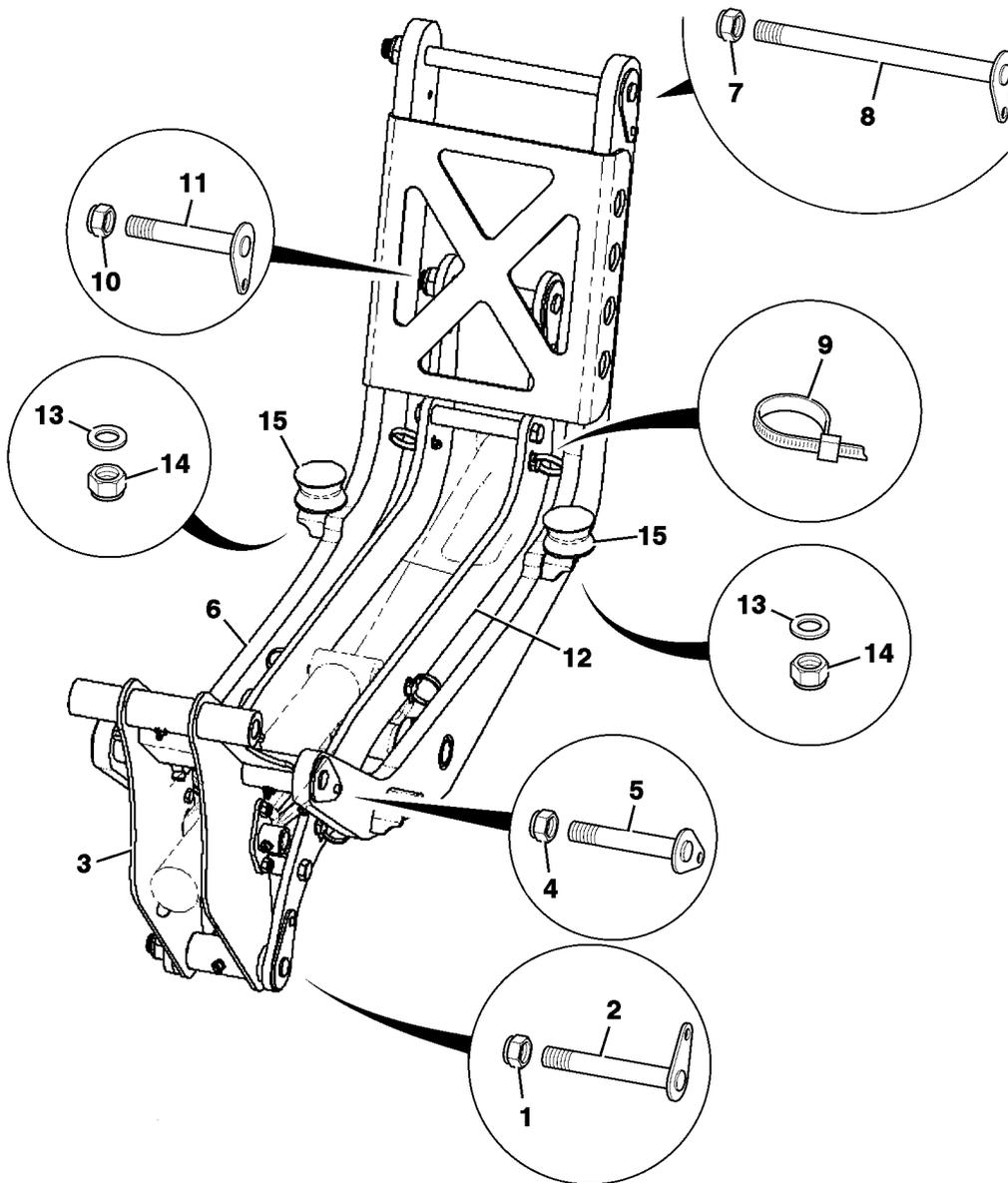


Fig 3.

#### Link Removal

- 1 Remove the skip ⇒ [Skip \(□ B-3\)](#).
- 2 Position the mechanism to allow access to components and place supports under the arms. Stop the engine.
- 3 Remove the tilt ram ⇒ [Tilt Ram \(□ E-38\)](#).
- 4 Remove nut **1** and drive out pivot pin **2** securing the link **3** to the inner arms and the lift ram. Take care to support the lift ram.
- 5 Remove nut **4** and drive out pivot pin **5** securing the link to the outer arms **6**.
- 6 Lift the link away from the machine.

#### Link Replacement

- 1 Position the link **3** on the machine and fit pivot pin **5** to secure the link to the outer arms. taking care to locate the locking tab. Fit and tighten nut **4**.
- 2 Fit pivot pin **2** to secure the link to the inner arms and the lift ram, taking care to locate the locking tab. Fit and tighten nut **1**.
- 3 Refit the tilt ram.
- 4 Refit the skip.

#### Outer Arms Removal

- 1 Remove the skip.
- 2 Remove the link (see above).
- 3 Place a sling around the outer arms **6** and take the weight of the arms.
- 4 Remove nut **7** and drive out pivot pin **8** securing the outer arms to the mainframe.
- 5 Lift the outer arms clear of the machine.

#### Outer Arms Replacement

- 1 Position the outer arms **6** onto the machine and fit pivot pin **8** to secure the arms to the mainframe,

taking care to locate the locking tab. Fit and tighten nut **7**.

- 2 Refit the link (see above).
- 3 Refit the skip.

#### Inner Arms Removal

- 1 Remove the skip.
- 2 Remove the tilt ram, link **3** and outer arms **6** (see above).
- 3 Cut the cable ties **9** securing the tilt ram hoses to the inner arms and tie the hoses up clear of the area.
- 4 Remove nut **10** and drive out pivot pin **11** securing the inner arms **12** to the mainframe.
- 5 Lift the inner arms **12** clear of the machine.

#### Inner Arms Replacement

- 1 Position the inner arms **12** onto the machine and fit pivot pin **11** to secure the arms to the mainframe, taking care to locate the locking tab. Fit and tighten nut **10**.
- 2 Refit the outer arms **3**, link **8** and tilt ram (see above).
- 3 Secure the tilt ram hoses to the inner arms with new cable ties **9**.
- 4 Refit the skip.

#### Bump Stop Removal

- 1 Unscrew and remove nut **13** and spring washer **14**.
- 2 Remove bump stop **15**.

#### Bump Stop Replacement

- 1 Fit bump stop **15** onto the outer arms and secure with spring washer **14** and nut **13**.



## Section B - Body and Framework Skip Mechanism

Removal and Replacement

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# Hydraulic Tank

## Removal and Replacement - up to machine no. 1360211

### Removal

- 1 Position the machine on firm level ground and fully raise the skip. Fit the safety strut to the lift ram → [Safety Strut \(□ 3-10\)](#).
- 2 Move the engine back on its cradle to improve access → [Moving the Engine \(□ K-3\)](#).
- 3 Place a container of sufficient size under the machine to catch the hydraulic oil → [Lubricants and Capacities \(□ 3-8\)](#).
- 4 Remove the hydraulic filler cap **A**.
- 5 Disconnect the suction hose **B** from the rear of the tank and allow the oil to drain from the tank. Plug the end of the hose to prevent dirt ingress.
- 6 Disconnect the return hose **C** from the filter housing and plug the hose.
- 7 Remove the three tank securing bolts, one each side of the tank **D** and one at the front of the tank **E**.
- 8 Lift the tank away from the chassis.

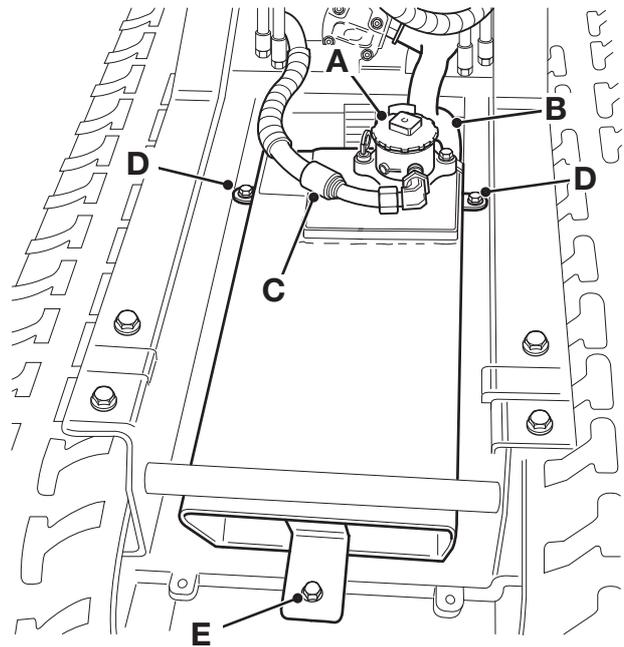


Fig 4.

### Replacement

- 1 Place the tank in position in the chassis.
- 2 Fit and tighten the three tank securing bolts, one each side of the tank **D** and one at the front of the tank **E**.
- 3 Remove the plug from the end of the suction hose **B** and connect the hose at the rear of the tank. Tighten the hose clip.
- 4 Connect the return hose **C** to the filter housing.
- 5 Fill the tank with the correct hydraulic oil and tighten the filler cap → [Lubricants and Capacities \(□ 3-8\)](#).
- 6 Move the engine forward and secure → [Moving the Engine \(□ K-3\)](#).

## Removal and Replacement - from machine no. 1360212

### Removal

- 1 Position the machine on firm level ground and fully raise the skip. Fit the safety strut to the lift ram → [Safety Strut \(□ 3-10\)](#).
- 2 Move the engine back on its cradle to improve access → [Moving the Engine \(□ K-3\)](#).
- 3 Place a container of sufficient size under the machine to catch the hydraulic oil → [Lubricants and Capacities \(□ 3-8\)](#).
- 4 Remove the hydraulic filler cap **A**.
- 5 Disconnect the suction hose **B** from the rear of the tank and allow the oil to drain from the tank. Plug the end of the hose to prevent dirt ingress.
- 6 Disconnect the return hose **C** from the filter housing and plug the hose.
- 7 Remove the four tank securing bolts **D**.
- 8 Lift the tank away from the chassis.

regularly during this operation and top up as necessary.

- 9 Check for oil leaks.

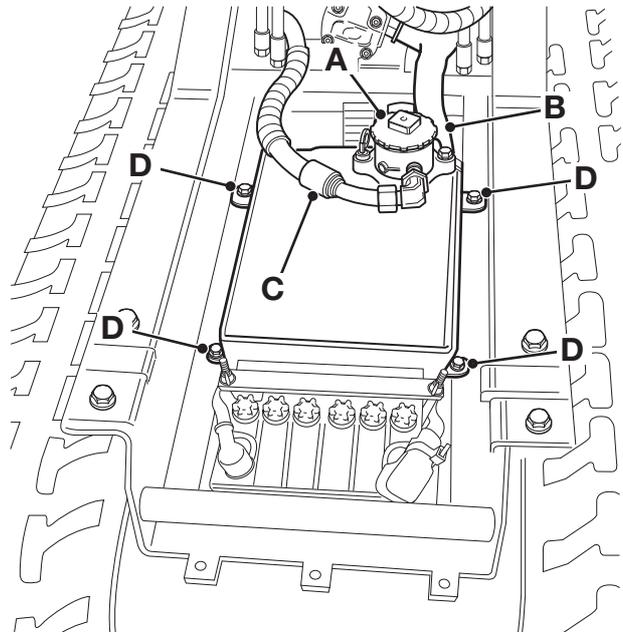


Fig 5.

### Replacement

- 1 Place the tank in position in the chassis.
- 2 Fit and tighten the four tank securing bolts **D**.
- 3 Remove the plug from the end of the suction hose **B** and connect the hose at the rear of the tank. Tighten the hose clip.
- 4 Connect the return hose **C** to the filter housing.
- 5 Fill the tank with the correct hydraulic oil and tighten the filler cap → [Lubricants and Capacities \(□ 3-8\)](#).
- 6 Move the engine forward and secure → [Moving the Engine \(□ K-3\)](#).
- 7 Remove the safety strut.
- 8 Start the engine and operate all hydraulic services to fill the system with oil. Check the hydraulic oil level