

Bucket Ram Pivot and Linkage

Removal and Replacement

Removal

- 1 Remove the bucket.
- 2 Remove the self-locking nuts **A** and bolts **B** from both pivot pins **C**. Support the links **D** and **E** and drive out both pivot pins **C**. Retract the piston rod end of the bucket ram **F** clear of the link **D**. Remove the links **D** and **E**.
- 3 Clean all old grease from the links **D** and **E** and pivot pins **C**.

Inspection

Check the link bushes and the pivot pin for wear or damage. Renew pivot pin and/or remove and replace link bushes as necessary.

Replacement

WARNING

Do not use your fingers through the holes to align the links.

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Note: Refer to Section 3 for grease specification.

- 1 Grease the pivot pins **C**.
- 2 Locate the fork end of the link **D** into the dipper, the correct way up as shown. Fit the pivot pin **C** through both sides of the link and dipper. Secure using bolt **B** and a new self-locking nut **A**.
- 3 Locate the rod end of the bucket ram **F** into the fork of the link **E**. Fit the pivot pin **C** through both links and the ram end. Secure using bolt **B** and a new self-locking nut **A**.
- 4 Grease the linkage through the grease nipple on the ram end boss.

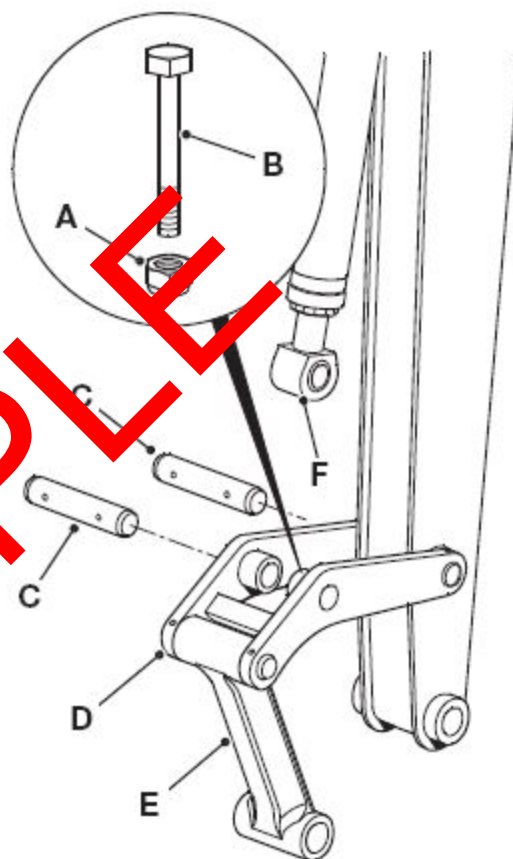


Fig 1.

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Fuel Tank

Removal and Replacement

Removal

- 1 Park the machine, lower the attachment to the ground and switch off the engine.
- 2 Disconnect and remove the battery.
- 3 Open the rear cover and remove the left counterweight A.
- 4 Disconnect the fuel sender D from the top of the fuel tank.
- 5 Place a suitable container beneath the fuel tank then, from beneath the machine, remove the drain plug and drain the fuel from the tank.
- 6 Disconnect the fuel filler pipe E.
- 7 Disconnect the fuel feed B and return C pipes.

Note: The fuel feed and return pipes are colour coded. The feed pipe is labelled red and is the lower of the two pipes, the return pipe is labelled green.

Bleed the engine fuel system. Check for leaks.

⚠ WARNING

Fuel

Fuel is flammable; keep naked flames away from the fuel system. Stop the engine immediately if a fuel leak is suspected. Do not smoke while refuelling or working on the fuel system. Do not refuel with the engine running. Completely wipe off any spilt fuel which could cause a fire. There could be a fire and injury if you do not follow these precautions.

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Note: It may be necessary to wait until the fuel tank retaining bolts have been removed so that the fuel tank can be moved slightly to improve access to the fuel pipe connections.

- 8 Remove the two retaining bolts at the base of the tank and remove the bolt from the upper support bracket.
- 9 Remove the fuel tank.

Replacement

Replacement is the reverse of the removal procedure.

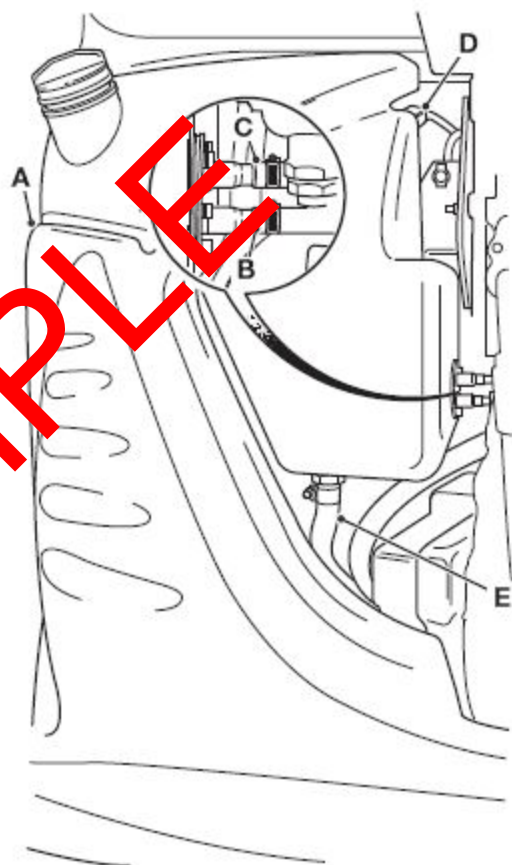


Fig 1.

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Removal and Replacement

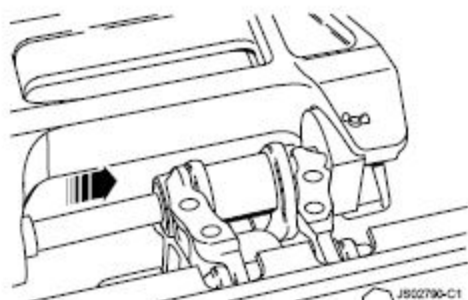


Fig 4.

- 4 Operate the traction motor to remove the track
 ⇒ [Fig 5. \(□ F-6\).](#)

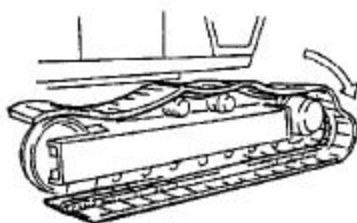


Fig 5.

- 5 Lift the side of the undercarriage high enough to permit drive sprocket removal. Support with wooden blocks ⇒ [Fig 6. \(□ F-6\).](#)

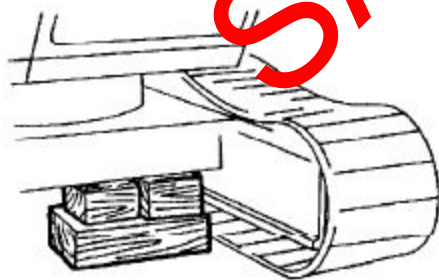


Fig 6.

- 6 Stop the engine and operate the control lever to relieve pressure in the hydraulic system.
- 7 Remove the motor cover, attach identification tags to the motor hoses, disconnect the hoses from the motor and install plugs and caps ⇒ [Fig 7. \(□ F-6\).](#)

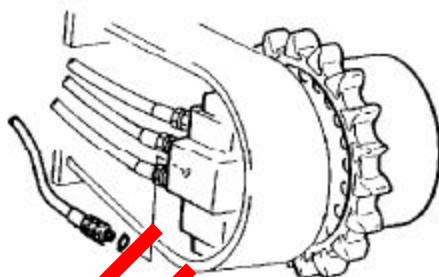


Fig 7.

- 8 Support the motor so that the cables are in tension, then remove the motor installation bolts
 ⇒ [Fig 8. \(□ F-6\).](#)

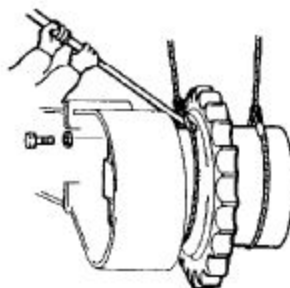


Fig 8.

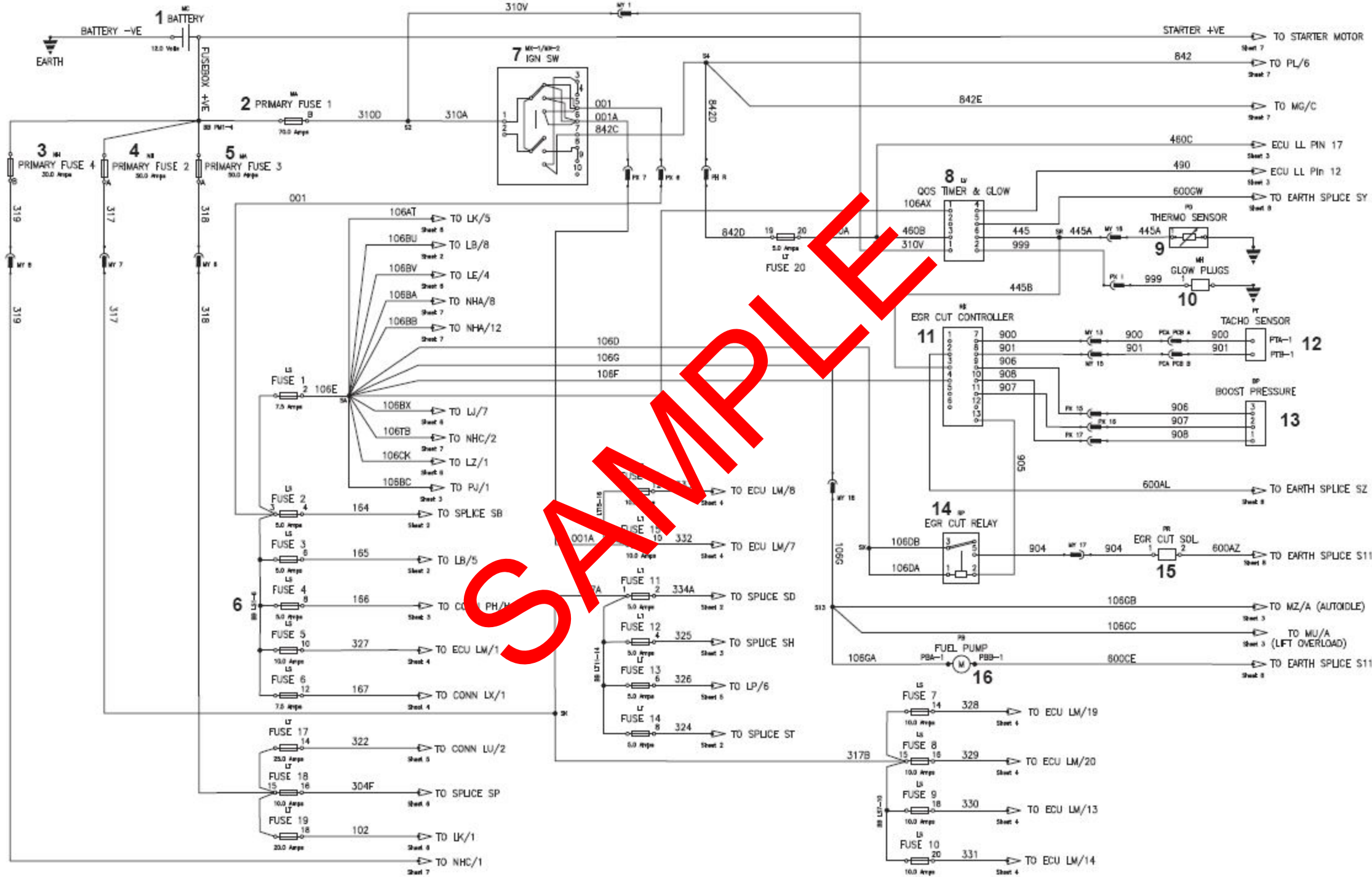


Fig 1. Primary and Secondary Fuses, EGR Circuit