

Johnston Maintenance Guide

V Series Twin Engine 501/651/801

Daily Maintenance – *This can be carried out by a suitably trained operator.*

Check the following items: -

1. Oil level in hydraulic reservoir – top up if required.
2. Auxiliary engine oil level – top up if required.
3. Auxiliary radiator level – top up if required
4. Auxiliary engine radiator is not obstructed.
5. Filter state indicator – service air filter if red.
6. Mesh screens in body are clean and fitted correctly.
7. Centre baffle is in position – duals only.
8. Mechanical damage to brush gear and report damage to supervisor.
9. Brushes for adjustment and wear – adjust or replace as required.
10. Spray jets for correct operation – clean if necessary.
11. Oil/water/fuel leakages.
12. Chassis items as recommended in chassis manufacturer's handbook.

Weekly Maintenance - *This can be carried out by a suitably trained operator.*

Attend to/check the following:-

1. Oil level in 'Z' drive gearbox – top up if required
2. Fan/engine bay is clean of oil etc.
3. Auxiliary engine drive belt tensions.
4. Suction fan impeller, wear plates and intake flap for wear, renew if necessary.
5. Routing of electric and hydraulic services for chafing.
6. Lubricate all grease points
7. Water pump suction filters.
8. Oil level and condition in Supawash pump if fitted.

50 Hour Service – *To be carried out by workshop personnel.*

Attend to/check the following:-

1. Drain and refill 'Z' drive gearbox.
2. Drain and refill Supawash pump if fitted.

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Service A – Every 500 Hours – To be carried out by workshop personnel.

1. Change auxiliary engine oil and renew filter.
2. Clean fuel pre-filter bowl (John Deere).
3. Renew the fuel filter element.
4. Renew auxiliary engine air cleaner elements.
5. Check auxiliary engine throttle control and engine idle for correct operation.
6. Clean duct in body roof.
7. Check the fluid flywheel oil level.
8. Check auxiliary engine coolant concentration gives – 39°C frost protection.
9. Check Supawash pump (if fitted) for the correct operation of jets and any plunger seal leaks.
Service as necessary.

Service B – Every 1000 Hours – To be carried out by workshop personnel.

1. Carry out 500 hour service: plus:-
2. Renew hydraulic return filter element.
3. Renew water pump suction filters.
4. Check valve clearances on the auxiliary engine if applicable.
5. Replace fuel pre-filter.
6. Carry out a visual inspection for the security of body mounts, pivot pins and equipment. –
Ensure torque identification marks are aligned – re-torque as required (See torque chart in maintenance manual)

Service C – Every 2000 Hours – To be carried out by workshop personnel.

1. Carry out 1000 hour service: plus:-
2. Drain and refill hydraulic reservoir.
3. Clean/replace suction filters and refill hydraulic reservoir.
4. Drain and refill “Z” drive gearbox.
5. Replace Auxiliary engine drive belts.
6. Drain and refill Supawash pump if fitted.

Service D – Every 2 Years – or Every 4000 Hours

1. Carry out 2000 hour service: plus:-
2. Drain and refill fluid flywheel.