



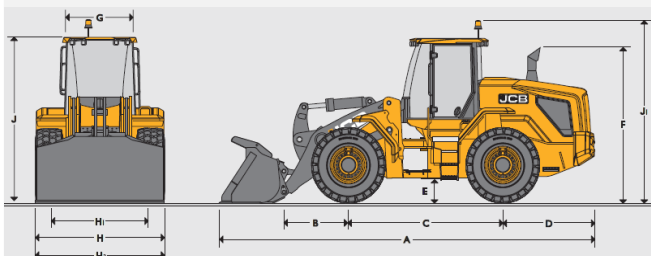
427,437 & 457

QUICK REFERENCE GUIDE

This Quick Reference Guide DOES NOT replace the Operators Manual. You MUST read ALL the disclaimers and safety and other instructions in the Operators Manual before initially operating this product. Accordingly, no legal claims can be entertained based on the data, illustrations or descriptions in this Quick Reference Guide.

Static Dimensions

		427	437	457
J1. Height over cab	ft-in	12-2	12-2	11-3
H2. Width over fenders	ft-in	8-2	8-5	8-11
A. Transport length	ft-in	23-2	24-0	27-1
Operating weight	lbs	30,102	34,086	44,090



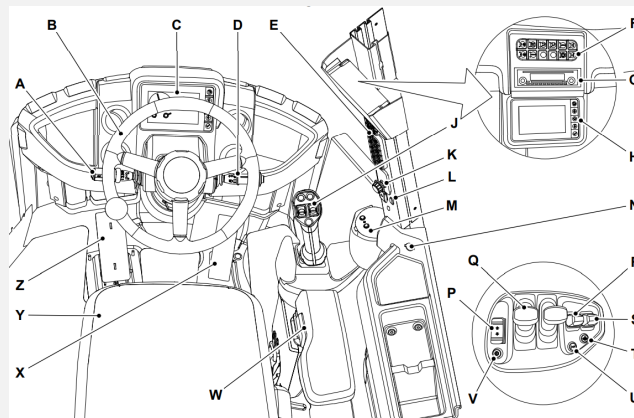
Tie Down Points



A. Front lifting points

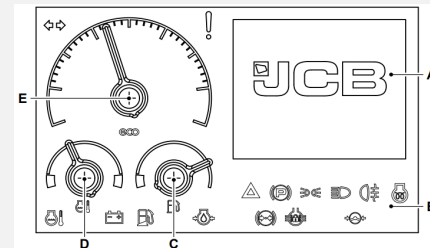
B. Rear lifting points

Cab and Switch Panel



- A. Transmission
- B. Steering wheel
- C. Front display panel
- D. Multi purpose steering column switch
- E. Console switches
- F. ATC panel
- G. Radio
- H. Secondary display panel (option)
- J. Proportional lever controls
- K. Rotary switch panel
- L. Park brake switch
- M. Coffee machine (option)
- N. Starter switch
- P. Forward reverse switch
- Q. Multi lever controls
- R. Primary auxiliary controller
- S. Secondary auxiliary controller (option)
- T. Differential lock
- U. Horn
- V. Transmission kickdown switch
- W. Armrest
- X. Accelerator pedal
- Y. Seat
- Z. Service brake pedal

Instrument Panel



- A. LCD screen
- B. Warning & indicator lamps
- C. Fuel level gauge
- D. Coolant temperature gauge
- E. Engine speed



- A. Direction indicators
- B. Master warning
- C. Hazard warning
- D. Park brake
- E. Sidelight
- F. Main-beam lights
- G. Rear fog lights
- H. Engine pre-heat
- J. Battery charging condition
- K. High coolant temperature
- L. Low fuel level
- M. Engine oil pressure
- N. Brake system pressure
- P. Differential lock
- Q. Low steering pressure

Start Up Sequence

1 Insert Isolator Key
Isolator located under cover of top cab entrance step.

2 Apply Seat Belt
Check all Levers are in neutral position and fasten seatbelt.

3 Ensure neutral gear is selected and key on
Check all Levers are in neutral position and fasten seatbelt.

4 Engine Pre-Heat
Hold key in Position 1 for approximately 2-3 Secs and then start.

5 Start Machine
Turn key to position S once started key will spring back to IGN position.

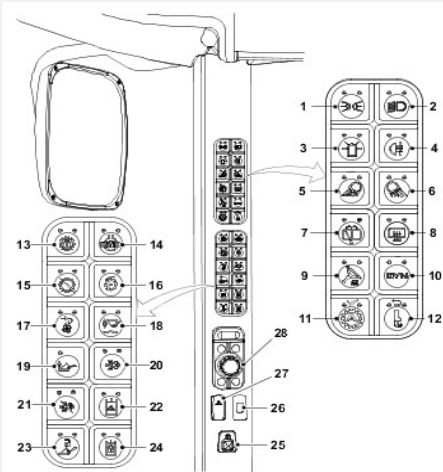
6 Activate Controls & Beacon if required
Independent beacon switch

Access additional information

www.servicepro.jcb.com



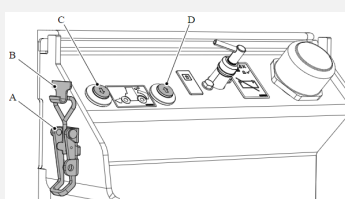
Console Switches



- | | |
|------------------------------------|------------------------------|
| 1. Road lights | 15. Transmission disconnect |
| 2. Headlamps | 16. Constant flow aux. |
| 3. Beacon | 17. Manual fan reverse |
| 4. Rear fog lamp | 18. Smooth Ride System |
| 5. Front work lamps | 19. Return to dig |
| 6. Rear work lamps | 20. Regen request (457 Only) |
| 7. Rear wash/wipe | 21. Regen inhibit (457 Only) |
| 8. Heated rear screen | 22. Hydraulic mode |
| 9. Secondary steering test | 23. Quickhitch unlock |
| 10. Dynamic engine mode (457 Only) | 24. Hydraulic lock |
| 11. Auto | 25. Mirror controls. |
| 12. Not used. | 26. Park brake switch. |
| 13. Torque converter lockup | 27. Hazard switch. |
| 14. differential lock | 28. Rotary control. |

Opening & Closing Engine Compartment Cover

- Make the machine safe, lift arm lowered.
- Disengage the clasp, located on the left-hand side of the cab entry & the lid will open.
- Press the up-arrow switch to raise the engine cover. Once opened, isolate the machine.
- To close, engage the isolator and wait for 5 s so the engine cover actuator gets synchronized.
- Press the down arrow switch to lower the engine cover.



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|----------------------|
| A. Clamp |
| B. Clasp |
| C. Down arrow switch |
| D. Up arrow switch |

*Do not open the engine cover while the engine is running.

Service & Maintenance

Daily Checks (10h)

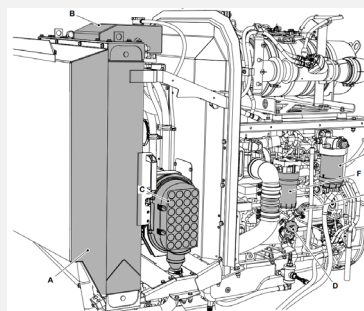
	Action
General	Visual Check
attachments	Visual/Operate
Seat belt operation/condition	Visual/Operate
Pivot pins and bushes	Visual Check
Park brake operation	Operate
Oil level	Physical/Visual
Coolant	Physical/Visual
Transmission oil	Physical/Visual

Weekly Checks (50h)

	Action
Mast and carriage rollers	Visual Check
Mast pulleys	Physical/Visual
Main fuel filter/sediment	Visual Check
Pipework	Physical/Visual
Rams	Visual Check
Hydraulic oil, top end of mast lift ram	Visual Check
Wiring	Visual Check
Battery terminals	Visual Check
Hinges	Visual Check
Cables	Visual Check
Linkage points	Visual/Operate
Cooling fan	Visual/Operate

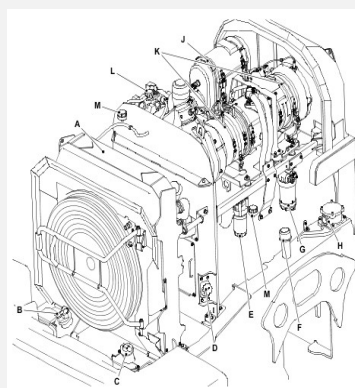
Service Points

427 & 437 - Cummins



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|---------------------------|
| A. Radiator |
| B. Coolant expansion tank |
| C. Air filter |
| D. Engine oil filler cap |
| E. Engine oil dipstick |
| F. Engine fuel filter |
| G. Fuel filter |

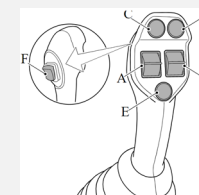
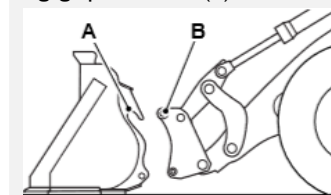
457 - Cummins



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|-------------------------|
| A. Cooling Pack |
| B. DEF tank cap |
| C. Diesel fuel tank cap |
| D. Engine oil filter |
| E. Engine fuel filter |
| F. Hydraulic oil filler |
| G. Fuel filter |
| H. Hydraulic oil filter |
| J. Air filter |
| K. Aftertreatment unit |
| L. Coolant filler |
| M. DEF tank breather |

Pick another subject

Drive machine forward, raise lift arms & engage pivot shafts (B) into hooks (A).



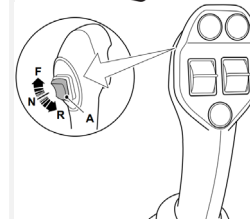
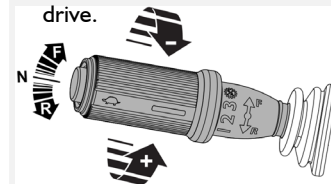
Proportional level control: move lever to the left and tilt the quickhitch fully back. Push Aux 1 until pins are engaged. The pins are fully engaged when the red indicators can't be seen anymore. If necessary, connect hydraulic hoses.

- | | |
|----|------------------------------|
| A. | Auxiliary button 1 |
| B. | Auxiliary button 2 |
| C. | Transmission kickdown switch |
| D. | Horn |
| E. | Differential lock |
| F. | Forward/reverse switch |

Forward/Reverse and Gear Change Options

The engine will only start when the forward/reverse lever is in the neutral position.

Stop the machine before you move the forward/reverse lever from forward to reverse drive or reverse to forward drive.



- | | |
|----|---------------|
| F. | Forward drive |
| R. | Reverse drive |
| N. | Neutral |

- | | |
|----|------------------------|
| A. | Forward/reverse switch |
| F. | Forward drive |
| R. | Reverse drive |
| N. | Neutral drive |

Transmission Kickdown Switch

A. Transmission kickdown switch

When the machine is in 2nd gear and the switch is pushed once, the transmission shifts down to 1st gear. (speed dependent).

If the switch is pushed again, the transmission will return to the original gear.

When the switch is pushed twice, the transmission shifts to the next lowest gear (dependent on speed and the A/M switch position).

If the switch is pushed twice again; the transmission will then shift to the next lowest gear. The transmission can shift through the gears in sequence to 1st gear if required.

If the switch is pushed once, the transmission will go back to auto shift.

