



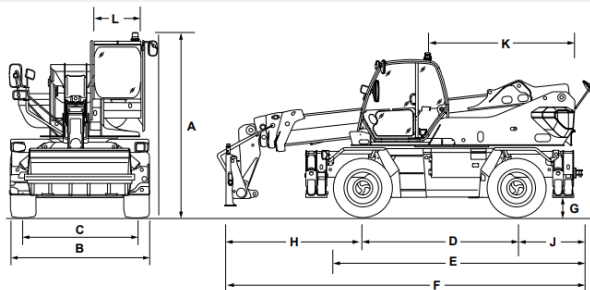
Roto 512-83R

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

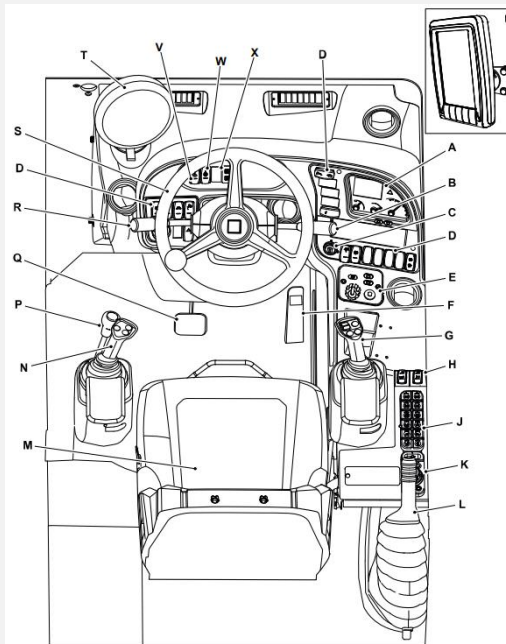
Machine Model	512-83R	
A Overall Height	ft-in	10-1
B Overall width over the tires	ft-in	8-1
C Front Track	ft-in	6-8
D Wheelbase	ft-in	10-0
E Overall length to front tires	ft-in	17-4
F Overall length to front carriage	ft-in	26-6
G Ground Clearance	ft-in	1-1
H Front wheel center to carriage	ft-in	11-1
J Rear wheel center to rear face	ft-in	5-5
K Rear tail swing	ft-in	10-5
L Inside width if cab (between windows)	ft-in	3-1
M Outriggers fully extended (not deployed)	ft-in	18-6
M Outriggers fully extended (Fully deployed)	ft-in	17-4



Best Practices

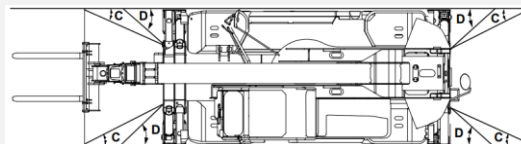
1. Carry a load as low as possible while maintaining good visibility.
2. Forks should be tilted back when in transport – with or without a load, cradle the load.
3. Fork tips should be on the ground when unit is parked.
4. Rather than driving into the load, extend the boom to easier see the forks in the load.

Cab Layout



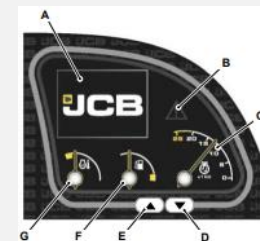
- | | |
|-----------------------------|---------------------------------|
| A. Instrument panel | M. Operator seat |
| B. Multipurpose switch | N. Left hand joystick |
| C. Ignition switch | P. Controls isolation lever |
| D. Console switches | Q. Brake pedal |
| E. Heating and A/C controls | R. Transmission and drive lever |
| F. Accelerator pedal | S. Steering wheel |
| G. Right hand joystick | T. Face level fan |
| H. Outrigger control | U. Load management system |
| J. Switch panel | V. Rapid recovery switch |
| K. Rotary switch control | W. Emergency recovery pump |
| L. Slew lock lever | X. LMS override |

Tie Down Points

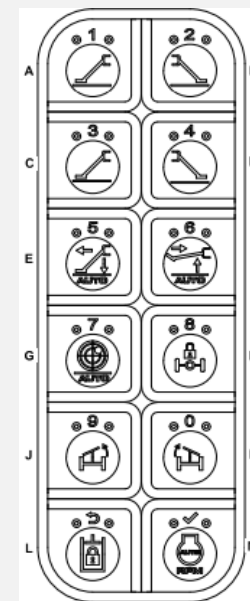


1. Move the machine onto the transport vehicle.
2. Engage the slew lock.
3. Secure the machine to the trailer with chains. The chain angle must be within the permissible angular range specified.
4. The correct tie down positions are identified on the machine by their labels.
5. Measure the maximum height of the machine from the ground.

Instrument Panel



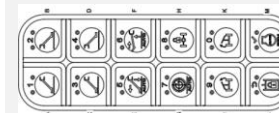
- A. Display screen
- B. Warning indicator
- C. Tachometer
- D. Navigation button down
- E. Navigation button up
- F. Fuel level gauge
- G. Coolant temperature gauge
- H. Information switch



- A. Left front outrigger select button
- B. Right front outrigger select button
- C. Left rear outrigger select button
- D. Right rear outrigger select button
- E. Outriggers auto deploy and level
- F. Outriggers auto stow
- G. Outriggers auto level select button
- H. Axle oscillation lock button
- J. Sway left select button
- K. Sway right select button
- L. Control isolate button
- M. Auto idle select button

Start Up Sequence

- A. Turn the key to position I
- B. If equipped with an Immobilizer, use keypad to input code (Factory Code: 1945), press keypad check mark to accept.
- C. Turn key to start.
- D. Allow the main display to start up.
- E. Accept/confirm the correct attachment has been identified, press the check mark button, located behind the joystick



Immobilizer keypad



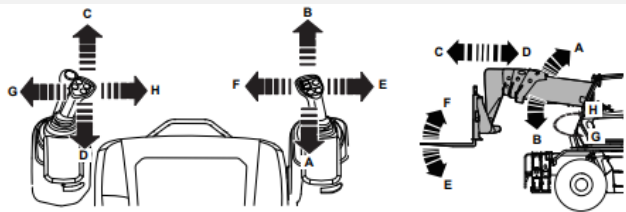
Attachment Confirmation Switch

Access additional information

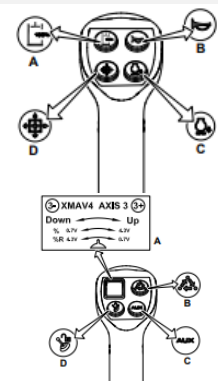
www.servicepro.jcb.com



Double Lever Control



- A. Boom Raise
- B. Boom Lower
- C. Boom Extend
- D. Boom Retract
- E. Carriage Tilt Forward
- F. Carriage Tilt Back
- G. Slew counterclockwise
- H. Slew clockwise



Left Hand Joystick

- A. Restore full hydraulic service speed
- B. Horn
- C. One touch engine idle
- D. Envelope override

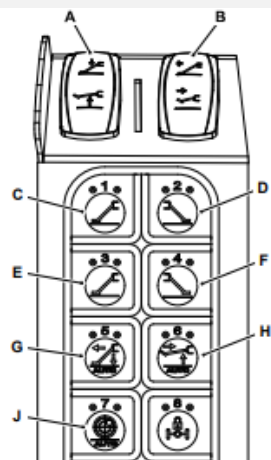
Right Hand Joystick

- A. Auxiliary hydraulics control
- B. Speed profile quick selection
- C. Auxiliary service change over button
- D. Controls enable

Stabilizer Controls

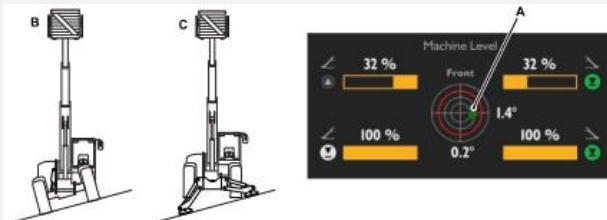
Auto Deploy

Press and hold the auto deploy function button on the keypad for 2s. All outriggers which are not already in the deployed state are automatically selected and fully extended. When all outriggers are 100% extended they are then lowered until all are deployed. Then the machine is then automatically levelled to +/- 0.5°.



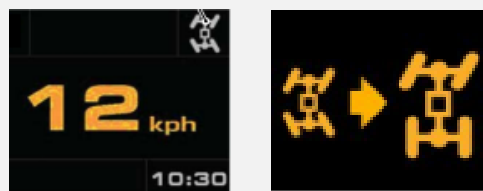
- A. Raise/lower outrigger switch
- B. Extend/retract outrigger switch
- C. Left front outrigger selection button
- D. Right front outrigger selection button
- E. Left rear outrigger selection button
- F. Right rear outrigger selection button
- G. Outriggers auto deploy and level selection
- H. Outriggers auto stow selection button
- J. Outriggers auto level selection button

Chassis Levelling (Sway) Operation

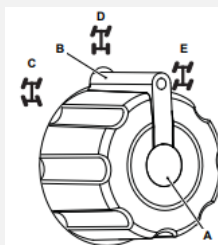


- A. Machine level indicator status
- B. Chassis level
- C. Outrigger's level

Vehicle Steer Mode

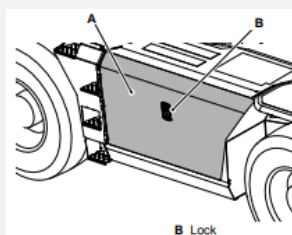


An icon on the LCD (Liquid Crystal Display) Screen tells you what steer mode the machine is in. Information on the icons and the notification screens when changing between steer modes is contained in the LCD screen operation instructions.

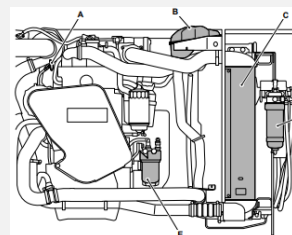


- A. Rotary knob
- B. 4-Wheel steer
- C. 2-Wheel steer
- D. Crab steer

Engine Compartment

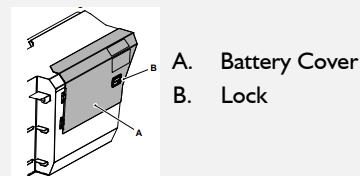


- A. Engine Cover
- B. Lock

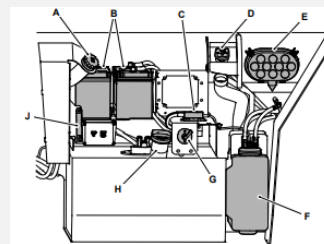


- A. Engine Oil Dipstick
- B. Coolant Expansion Tank
- C. Radiator
- D. Water Separator
- E. Fuel Filter

Battery Compartment



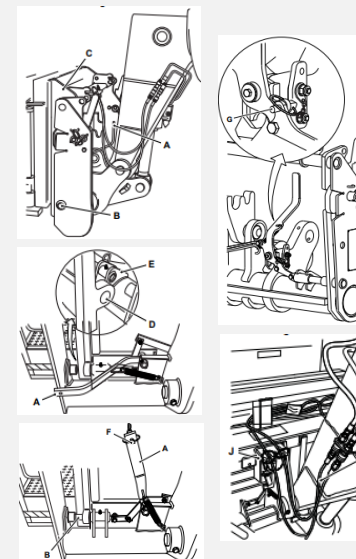
- A. Battery Cover
- B. Lock



- A. Hydraulic filler cap
- B. Batteries
- C. Primary fuse
- D. DEF tank filler cap
- E. Air Filter
- F. DEF Tank
- G. Battery Isolator
- H. Fuel filler cap

Connecting Attachments

1. Lower the manual locking lever to disengage the carriage lock pins.
2. Use the controls to line up the carriage with the attachment and just below the hook plates, located on the platform.
3. Using the boom controls, engage the support bar on the carriage into the hook plates on the attachment.
4. Make sure that both hook plates are engaged equally.
5. Make sure that the forward/reverse lever is set to neutral, and that the park brake is on.
6. Stop the engine and remove the starter key.
7. At the carriage, operate the manual locking lever to engage the lock pins.
8. Make sure that the locking pins are fully engaged.
9. If a second person is to do this job, keep your hands and feet away from the controls until he is clear of the machine.
10. Secure the manual locking lever with a locking pin.
11. If the machine is fitted with the optional carriage, make sure that the locking pin is securely fitted.
12. If the platform is of the slew-type: attach the hydraulic hoses to the auxiliary circuit connections, feed the hoses into their guides and retain with the locking pins.
13. Connect the electrical connector.



- A. Manual locking lever
- B. Lock pins
- C. Hook plates
- D. Attachment
- E. Carriage
- F. Locking pin
- G. Locking Pin
- J. Locking pins
- K. Hydraulic hoses