

Loadall 533-105, 535v125, 540v140, 540-140, 540-170, 540-180, 540-200



Disclaimer

- > This Quick Reference Guide is to provide quick and simple information to the Operator and does not include any health and safety aspects. In addition, because of our continual development of machines, features described in this Quick Reference Guide may differ from those on your machine. No errors and emissions be entirely ruled out.
- > 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 on the basis of the data, illustrations or descriptions in this Quick Reference Guide.
- > This machine should not be operated by any person who isn't appropriately qualified or had the appropriate training.
- > Operation of this machine without periodic maintenance could cause it to malfunction. For more information please contact your JCB Dealer.

Index

| Intended Use4 | 1 |
|-----------------------|---|
| Dimensions | |
| Tie Down Points | , |
| Cab Layout | , |
| Controls | |
| Steering Modes | |
| Start Up Sequence | |
| Shutdown Sequence | , |
| Connecting a trailer | , |
| Maintenance Position | ; |
| Service Schedule |) |
| Service / Maintenance | |
| Fluids & Lubricants | |
| Attachments | , |
| Your Notes | , |

Intended Use

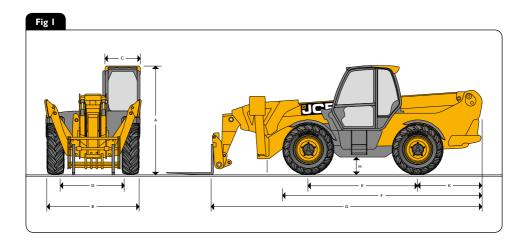
General

- > Machine Type Rough Terrain Variable Reach Truck
- > Self propelled, seated operator, wheeled machine for operation on unimproved natural terrain and disturbed terrain.
- > A main structural support is designed to carry an extending boom with a carriage mounted on the front to which forks or an approved attachment can be fitted.
- > When used normally the machine lifts and places loads by extending/retracting, raising/lowering the boom.

Intended Use

- > The machine is intended to be used in normal conditions for the applications described in the operator's manual.
- > With forks fitted, machine work cycle consists of loading, moving and unloading material.
- If the machine is used for other applications or in dangerous environments, for example in a flammable atmosphere or in areas with dust containing asbestos, special safety regulations must be obeyed and the machine must be equipped for use in these environments.
- > Make sure you follow the instructions outlined in the operator's manual of the mounted or trailed machinery or trailer. Do not operate the combination tractor-machine or tractor-trailer unless all instructions have been followed.
- > Do not use the machine to move or handle logs unless sufficient log protection is installed. You could cause serious injury to yourself and damage to the machine. For more information, contact your JCB dealer.
- > A wide range of optional attachments are available to increase the versatility of your machine. Only the JCB approved attachments are recommended for use with your machine. Contact your JCB dealer for the full list of approved attachments available.

Dimensions



| Ma | chine model | | 533- 105 | 535v 105 | 540- 140 | 540v 140 | 540- 170 | 540v 180 | 540- 200 |
|----|--|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| А | Overall height | mm | 2,490 | 2,590 | 2,590 | 2,590 | 2,690 | 2,590 | 2,720 |
| В | Overall width (over tyres) | mm | 2,290 | 2,350 | 2,350 | 2,350 | 2,440 | 2,460 | 2,440 |
| С | Inside width of cab (between windows) | mm | 940 | 940 | 940 | 940 | 940 | 940 | 940 |
| D | Front track | mm | 1,870 | 1,900 | 1,900 | 1,900 | 1,900 | 1,900 | 1,970 |
| E | Wheelbase | mm | 2,750 | 2,750 | 2,900 | 2,750 | 2,750 | 2,750 | 2,750 |
| F | Overall length to front tyres | mm | 4,380 | 4,740 | 5,180 | 4,740 | 5,080 | 4,720 | 5,090 |
| G | Overall length to front of carriage | mm | 5,380 | 5,800 | 6,250 | 6,230 | 6,360 | 6,305 | 6,810 |
| Н | Ground clearance | mm | 400 | 400 | 400 | 400 | 400 | 400 | 410 |
| Κ | Centre of gravity (unladed) | mm | 1,311 | 1390 | 1536 | 1511 | 1548 | 1526 | _ |
| | Weight | kg | 8,868 | 10,058 | 10,779 | 11,370 | 12,301 | 11,375 | 13,252 |

Tie Down Points

Fig 2

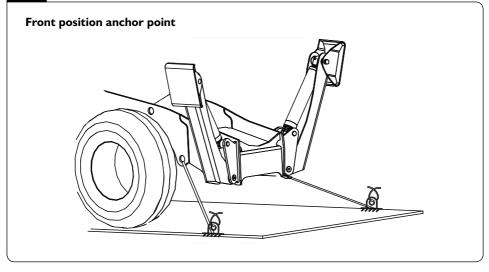
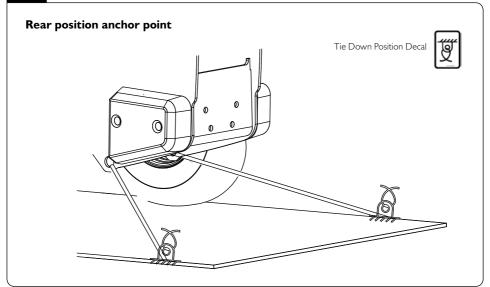
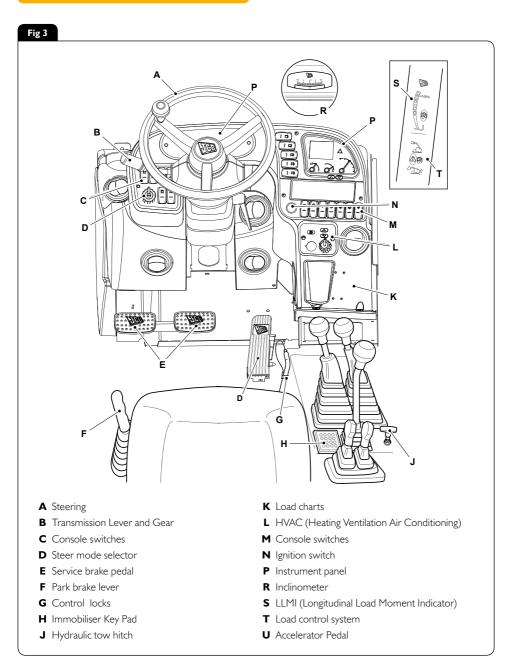


Fig 2

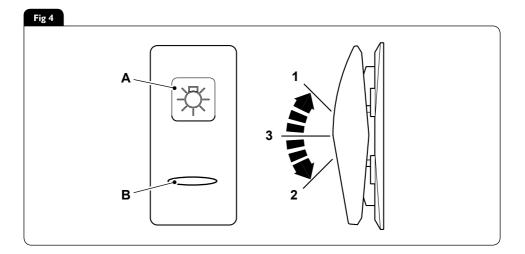


REFER TO OPERATORS MANUAL TRANSPORTING MACHINE

Console switches



Cab & Joysticks





Road Lights

- I Off
- 3 Sidelights On
- 2 Headlights & Rear Tail Lights On (Ignition On)
- 2 Sidelights & Rear Tail Lights On (Ignition Off)



Rear Fog Lights

- I Off
- 2 Rear Fog Light On



Hazard Warning Lights

- I Off
- **2** On



Work Lights

- 3 Front work lights On
- 2 Front / rear / hitch work lights On



Transmission Mode

- Manual
- **2** Auto (Push then release)



Transmission Disconnect

- I Off
- 3 On
- 2 Engage (push then release)



Tilt Lock

- I Off (Backlight off)
- 2 Tilt Lock On (Backlight on)



Heater

- I Fan speed down (spring-loaded)
- 3 Default Position
- **2** Fan speed up (spring-loaded)



Window Heater

- I Heater rear/side windows Off
- 2 Heater rear/side windows On

Inner Boom Extend/Retract

- I Inner boom extend/ retract disabled
- 2 Inner boom extend/ retract enabled



Controls Isolation

- I Off
- **2** On



Stabiliser Isolation

- I Off (Backlight off)
- 2 Stabiliser isolation On (Backlight On)



Chassis Levelling

- Sway left –
 Push and hold the switch
- **3** Off
- 2 Sway right Push and hold switch



Hydraulic Function

- I Enable the hydraulic function (turn to right)
- 2 Disable the hydraulic function (push)



Hydraulic Auxiliary Venting

- l Off
- 2 Service venting (ignition On, engine Off)



Reverse Fan

- I Off 3 Auto
- 2 Manual



Rear Window Wiper

- I Wiper Off
- 3 Wiper On
- 2 Washer On (push and hold)



Stabiliser Isolation

- I Off (Backlight off)
- 2 Stabiliser isolation On (Backlight On)

Single Lever Control

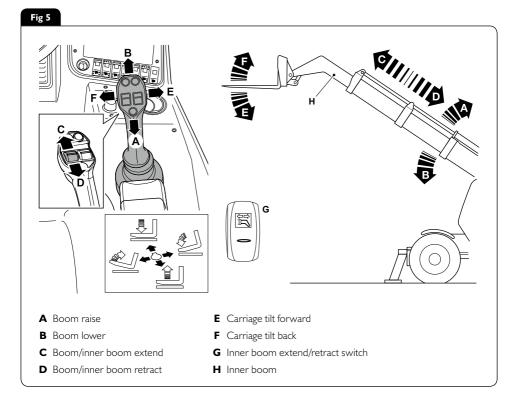
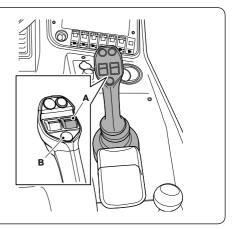


Fig 6

Auxiliary Control

Roll the thumb switch forward / backward to use desired function



Dual Lever Control

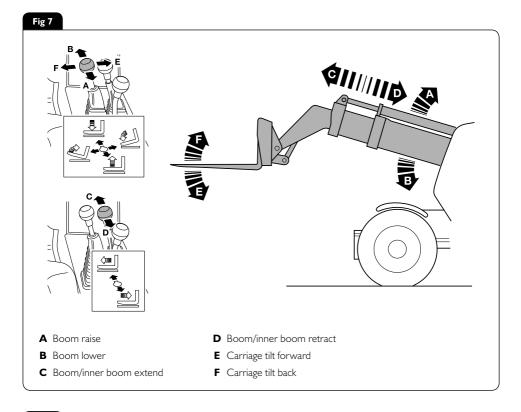
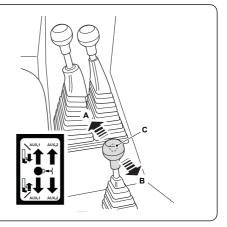


Fig 8

Auxiliary Control

Move the control lever forward / backward to use desired function



Stabiliser & Sway Controls

Lower and Raise Stabilisers

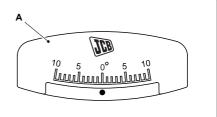
Fig 9 I. Park the machine on firm ground. 2. Turn off the stabiliser isolation switch (A). 3. Push the control levers (B) forward to lower the stabiliser legs (C). 4. Pull the control levers (B) back to raise the stabiliser legs (D). 5. Before you operate the boom, make sure the machine is level and stabiliser controls are isolated. A Stabiliser isolation switch B Stabiliser control levers C Stabiliser legs - lower D Stabiliser legs - raise A 11

Fig 10

Chassis Levelling (Sway) Operation

To operate push and hold the rocker switch to either side until the machine shows as level on the inclinometer.





Pedals & Controls



¹⁰ Transmission Disconnect

Switch allowing you to disconnect the transmission to improve hydraulic performance.

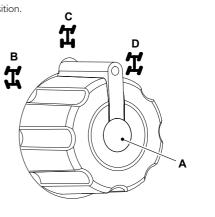


Vehicle & Steer Modes

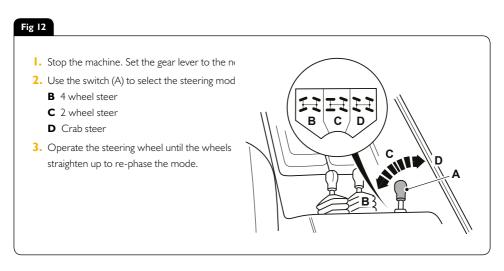
Electronic Steer Mode Selector

Fig 11

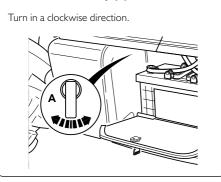
- I. Stop the machine. Set the gear lever to the neutral position.
- 2. Use the switch (A) to select the steering mode:
 - **B** 4 wheel steer
 - C 2 wheel steer
 - D Crab steer
- **3.** Operate the steering wheel until the wheels straighten up to re-phase the mode.



Manual Steer Mode Selector

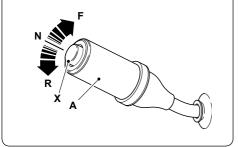


Insert Isolator Key (A)



³ Set to Neutral

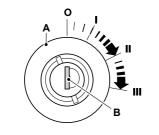
Put the forward / reverse lever into neutral.



Start Machine

5

Turn the ignition key to the start position (position III) and hold it there until the engine starts.



² Disarm the immobiliser

If installed, clear with MD then key in the code followed by enter.



4 Insert Key

Insert the battery isolator key and switch to position 1.



⁶ Operate Hydraulics

Operate the hydraulic services to make sure that each function is working correctly and to help warm up the hydraulic system.

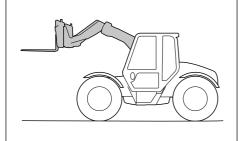
Shutdown Sequence



3

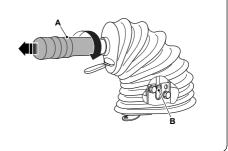
Stop the Machine

Park on dry level ground.



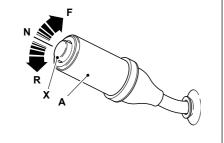
Apply the Park Brake

Lift up the lever (A) to apply the brake.



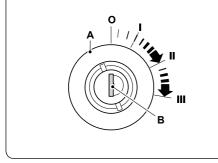
Set to Neutral

Put the forward / reverse lever into neutral.



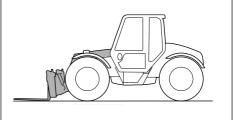
5 Key off

Turn off all switches. Remove the ignition key.



4 Lower Boom

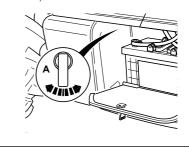
Retract and lower the boom, resting the forks flat on the ground.



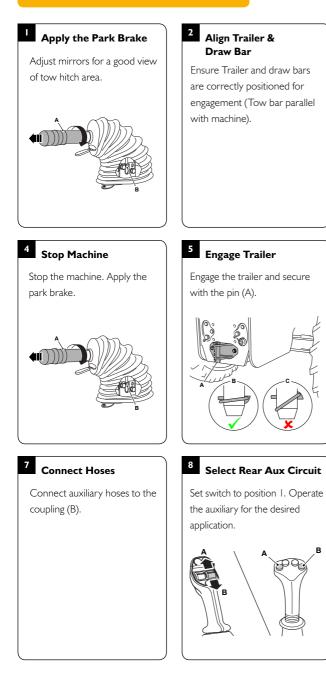
⁶

Exit Machine

Exit the machine and remove the battery isolator key.

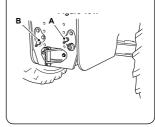


Connecting a Trailer



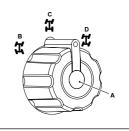
Approach Trailer Align the hitch with the trailer towing eye. Image: Connect Lights Connect the trailer lights into the register (2) 5

Connect the trailer lights into the socket (A). Ensure they are working and visible.



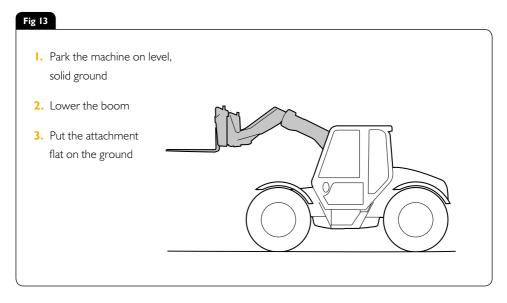
Set Steering Mode

Select 2 wheel steering for use on public roads. 2WD is also recommended.

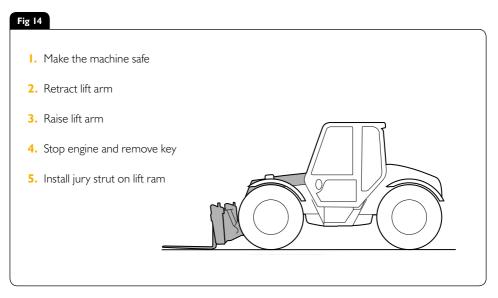


Maintenance Position

Maintenance Position - Boom Lowered



Maintenance Position - Boom Raised



Service/Maintenance

| Daily Checks (10h) | Check |
|--|-------|
| Engine Coolant Quality and Level Check | |
| Engine Oil Level Check | |
| Transmission Oil Level Check | |
| Wheel Nut Security Check | |
| Tyre Pressures / Condition Check | |
| Wheel Alignment Check | |
| Brake System Fluid Level Check (Condition) | |
| Fire Extinguisher (if fitted) Check | |
| Wing Mirrors Condition and Security Check | |
| ROPS / FOPS Structure Check | |
| Windscreen Washer Fluid Level Check | |
| SWL Stickers (UK) and Flip Chart Renew as required | |
| Steering – Operation / Phasing Check | |
| Transmission Operation Check | |
| Operation of all Services Check | |
| Boom Extension / Phasing (3 stage boom) Check | |
| Foot Brake – Operation Check | |
| Park Brake Check and adjust | |
| All electrical equipment operation (warning lights, beacon, alarms, horn, wipers etc.) | |
| Longitudinal Load Moment Indicator (LLMI) | |
| Load Moment Control (LMC) System (if fitted) Check | |
| Stabiliser Indicators (if fitted) Check | |

Seat / Seat Belts Check

Fork Fit and Check Security

Generally for damage, leaks and wear – Check

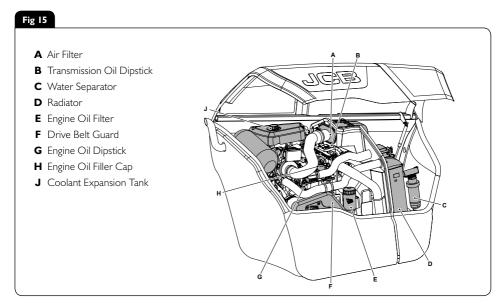
Ram Roller (replace if necessary) - Check

Service/Maintenance

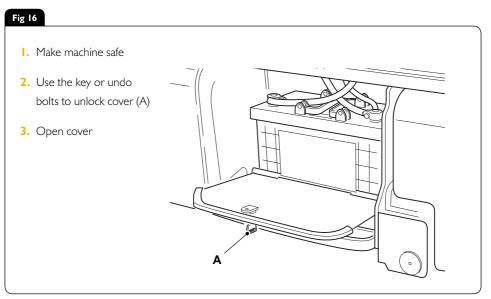
| Weekly Checks (50h) | Check |
|---|-------|
| Water Separator, Check for contamination and drain | |
| Axle Oil Level Check | |
| Axle Pivots and Linkages Grease | |
| Hydraulic Oil and Level Check | |
| Lift / Displacement / Tilt / Steer Cylinder Pivot Pins – Grease | |
| Pivot Pins - Grease | |
| Carriage Lock Pins Grease | |
| Hydraulic Tow Hitch Release Cable / Return Spring / Retaining Latch (if fitted) Check | |
| Boom Chains Oil | |
| Boom Chains – Tension Check / Adjust | |
| Boom Roller – Wear Check | |

Access Covers

Engine Compartment



Battery Cover

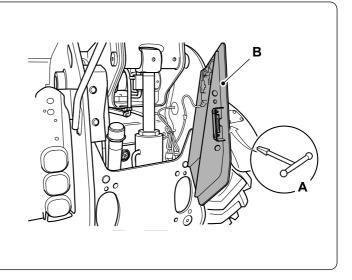


Access Covers

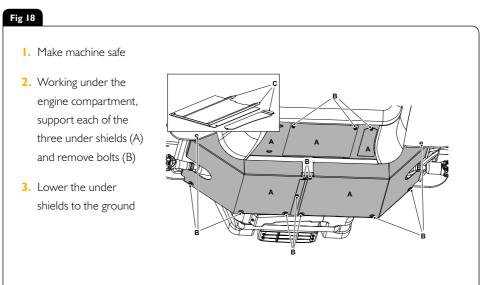
Rear Cover

Fig 17

- I. Make machine safe
- 2. Use the T-Bar (A) to unlock cover (B)
- 3. Open cover



Undershield



Fluids and Lubricants

| ltem | Capacity | Fluid / Lubricant | JCB Part Number | |
|---|---|---|-------------------------------------|--|
| Fuel Tank | 146L | Diesel Oil | Ultra Low Sulphur Diesel (EN590) | |
| DEF Tank 20.8L (Where applicable) | | DEF | ISO 22241 | |
| Engine Oil | 12.5-15L (SJ & SL Engine 11.5-14L (FL Engine) | JCB Engine Oil UP 5W30 JCB Engine Oil 5W40 (USA) JCB Engine Oil 10W30 | 4001/3105 | |
| Engine Coolant | 28L (SJ & SL Engine) 25.5L (FL Engine) | JCB Antifreeze HP / Coolant + Water | 4001/3405 | |
| Transmission (81kW) | Wet fill 11.5L Dry fill 13.5L | JCB Transmission Fluid EP 10W30 JCB Transmission Fluid SAE30 | 4001/3005 | |
| Transmission (55kW) | Wet fill 17L Dry fill 19L | Transmission Fluid EP 10W30 JCB Transmission Fluid SAE30 | 4006/1120 | |
| Transmission (93 & 108kW) | Wet fill 21L Dry fill 23L | JCB Transmission Fluid EP 10W30 JCB Transmission Fluid SAE30 | 4000/2505 | |
| Gearbox | | JCB Transmission Fluid EP 10W30 | 4000/2505 | |
| Front axle housing | 17.7L | | 4000/2506 | |
| Hubs | 2L | | 4000/2505 | |
| Rear axle housing (533-105) | IOL | JCB Gear Oil HP Plus | 4000/2506 | |
| Rear axle housing (540-140, 170, 200) | 19L | | 4000/2505 | |
| Rear axle housing (535-125, 535-140) | 17.7L | 4000 | | |
| Brake System | | JCB Hydraulic Fluid HP 15 | 4002/0503 | |
| Hydraulic Tank (540-140) | I3IL | | | |
| Hydraulic Tank 535-125, 535-140, 127L 540-140, 540-180) | | JCB Optimum Performance Hydraulic Fluid 46 or 68 | 4002/2005 or 4002/2705 | |
| Hydraulic Tank (533-105) | 125L | | | |
| Hydraulic Tank (540-170, 540-200) | 180L | | | |
| Grease points As required | | JCB Special HP Grease / JCB Special MPL EP Grease | 40032 | |
| Wear pad runways As required | | JCB Waxoyl | 4004/0502 | |
| Boom Hoses | As required | JCB Special HP Grease | 4003/2017 | |
| Boom Chain (Where Applicable) As required | | JCB Chain Lubricant | 4004/0237A | |

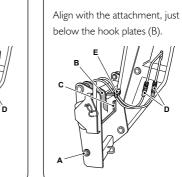
Connecting Attachments



2 Withdraw Carriage locking pin (A)

⁵ Align Locking Holes

Lift and tilt the carriage back, to align the locking holes. Lower the Attachment to the ground.

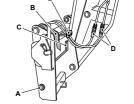


Align Carriage

3

⁶ Operate Lock Lever (C)

Engage locking pin or operate the auxiliary control to move the locking pins (Hydraulic Pin Locking).

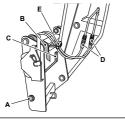


⁹ Attach Locking Pins

Attach locking pints to secure attachment hydraulic hoses to the carriage.

⁴ Engage Carriage Support Bar

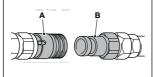
Move the boom to engage the carriage support bar into the hook plates (B) equally.



7

Prepare Hoses

Vent hydraulic system, check and clean hoses and adaptors.

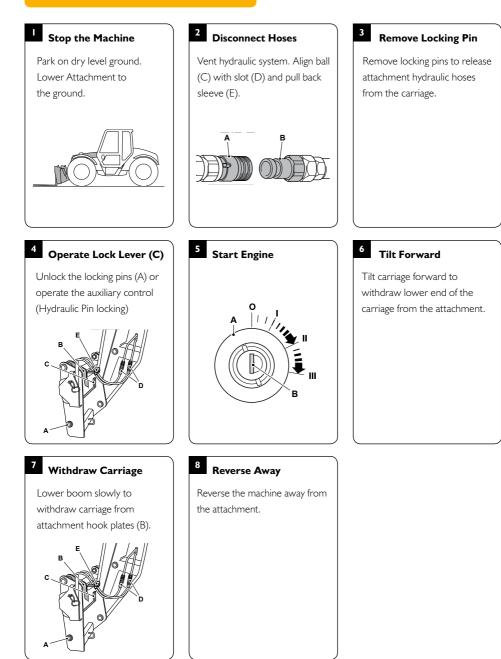


Connect the male coupling (B)

into the female coupling (A).

8 Connect Hoses

Disconnecting Attachments



Machine Attachments

| Description | Intended Use | Hyrdaulic Requirements |
|--|---|------------------------|
| Side Shift Carriage | Allows fork positioning ready for load pick-up and side shift of load when placing | Single Auxiliary |
| Fork Positioner | Allows width of forks to be easily adjusted | Single Auxiliary |
| Extension JIB | Gives the machine greater reach and height, for handling suspended loads | None |
| Roof Truss JIB | ss JIB Gives the machine greater reach and height, for handling suspended loads with four positions | |
| Fork Mounted Hook Allows the machine to carry slung loa with safety | | None |
| Shackle | Carriage mounted, it allows the machine to carry slung loads safely | None |
| Work Platforms Provide a safe way for workers to access inaccessible areas at height | | Twin Auxiliary |
| Shovels General Purpose and specific shovels are available for a wide range of tasks | | Model Dependant |
| 680mm JIB Gives the machine greater reach and height, for handling suspended loads | | None |

ATTACHMENT WEIGHTS ARE A GUIDE ONLY, ALWAYS CHECK YOUR OWN ATTACHMENTS

| Your Notes | |
|------------|--|
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