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⚠ WARNING

Study This Handbook Before Starting The Machine

You must understand and follow the instructions in this handbook. You must observe all relevant laws and regulations. If you are unsure about anything, ask your JCB distributor or employer. **Do not guess**, you or others could be killed or seriously injured.

INT-1-1-1

⚠ CAUTION

Do not fit an attachment to this machine which is not JCB approved. Consult your JCB distributor before fitting any non approved attachment.

8-4-1-6

In this handbook and on the machine there are safety notices. Each notice starts with a signal word. The meanings of the signal words are given below.

⚠ DANGER

Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

⚠ WARNING

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

⚠ CAUTION

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

MACHINE SECURITY

Vandalism and theft of unattended machines is an ever increasing problem and JCB is doing everything possible to help combat this.

JCB PLANTGUARD is a comprehensive package available to help you safeguard your machine. It includes such devices as vandal proof covers, window etching, immobiliser, concealed serial number, battery isolator, Tracker security system and much more.

Remember that the fitting of any one of these security devices will help to minimise not only the damage or loss of your machine but also subsequent lost productivity. It could also result in reduced insurance premiums.

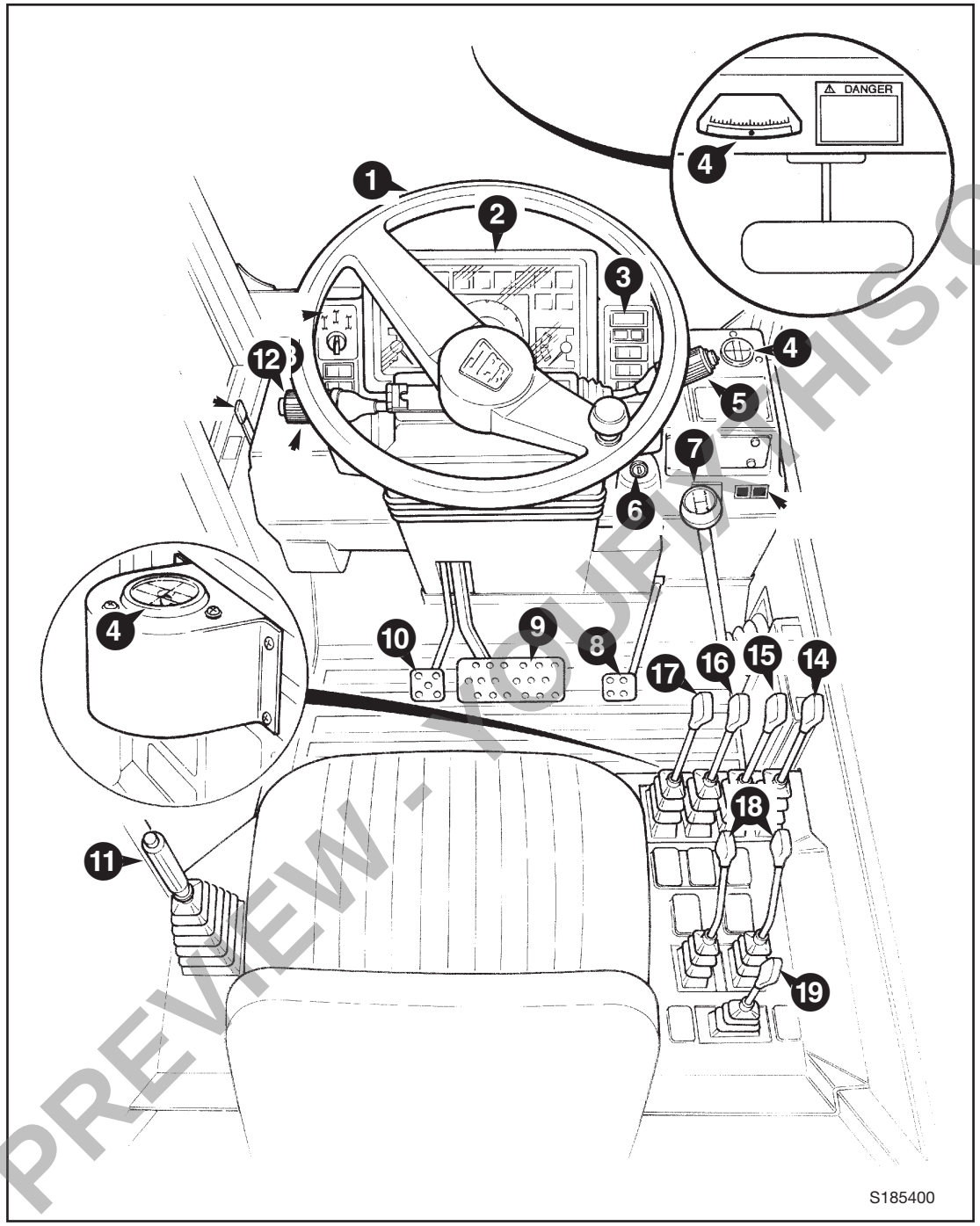
Your JCB Distributor or Dealer will be pleased to provide information on any of these sensible precautions. ACT NOW!

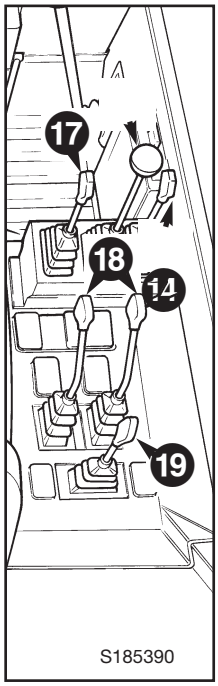
INT-1-2-4

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CAB LAYOUT AND CONTROLS





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CAB LAYOUT AND CONTROLS (continued)

1 Steering Wheel

Turn the wheel in the direction you want to go. Note that there are three different steering modes. *See **Steering Mode Selector** (OPERATION section).*

2 Instrument Panel

*See **Instruments** (OPERATION section).*

3 Instrument Panel Switches (Right Hand)

*See **Switches** (OPERATION section).*

4 Inclinometer

All the different types and positions of inclinometer are shown on the illustration.

5 Steering Column Switch

*See **Switches** (OPERATION section).*

6 Starter Switch

*See **Switches** (OPERATION section).*

7 Gear Lever *(Syncro Shuttle machines only)*

*See **Getting the Machine Moving** (OPERATION section).*

8 Accelerator Pedal

Push this pedal down to increase engine speed. Let the pedal up to reduce engine speed. With your foot off the pedal the engine will idle.

9 Brake Pedal

Push down on the brake pedal to slow or stop the machine. Use the brakes to prevent overspeeding down a slope.

The stop lights should come on when the brakes are applied. Do not drive the machine unless both stop lights work correctly.

***Note**: On machines with an electrical 2/4-wheel drive selector, 4-wheel drive will be selected automatically while the brake pedal is operated.*

10 Transmission Dump Pedal

On Syncro Shuttle machines push this pedal fully down to disconnect the drive while changing gear on the move.

On Powershift machines you do not need to depress the dump pedal when changing gear.

On both Powershift and Syncro Shuttle machines the dump pedal can also be used to momentarily dump the transmission pressure to improve the hydraulic performance and reduce engine load.

The dump pedal is not a clutch; it cannot be 'slipped'.

11 Parking Brake Lever

⚠ CAUTION

The parking brake must not be used to slow the machine from travelling speed, except in an emergency, otherwise the efficiency of the brake will be reduced.
Whenever the parking brake has been used in an emergency, always renew the brake pads.
4-2-1-1/1

Use this lever to engage the parking brake before leaving the machine. With the parking brake engaged, an audible warning will sound and the Parking Brake Engaged indicator will light when the forward/reverse lever is moved away from neutral. (See this page.)

To engage the parking brake, pull the lever up as shown. To release the parking brake, simply lower the lever all the way.

12 Forward/Reverse Lever

⚠ WARNING

You and others can be killed or injured if you operate the forward/reverse lever while travelling. The machine will immediately reverse direction without warning to others. Follow the recommended procedure for proper use of this lever.
2-2-2-4

Stop the machine before moving this lever. To select forward, reverse or neutral, 'lift' and move the lever to the required position. All four gears are available in both forward and reverse. When reverse is selected an alarm will sound. The engine will only start if the lever is at neutral.

The lever has 'detent' positions in forward, reverse and neutral. To move the lever from the detent position pull the lever towards you.

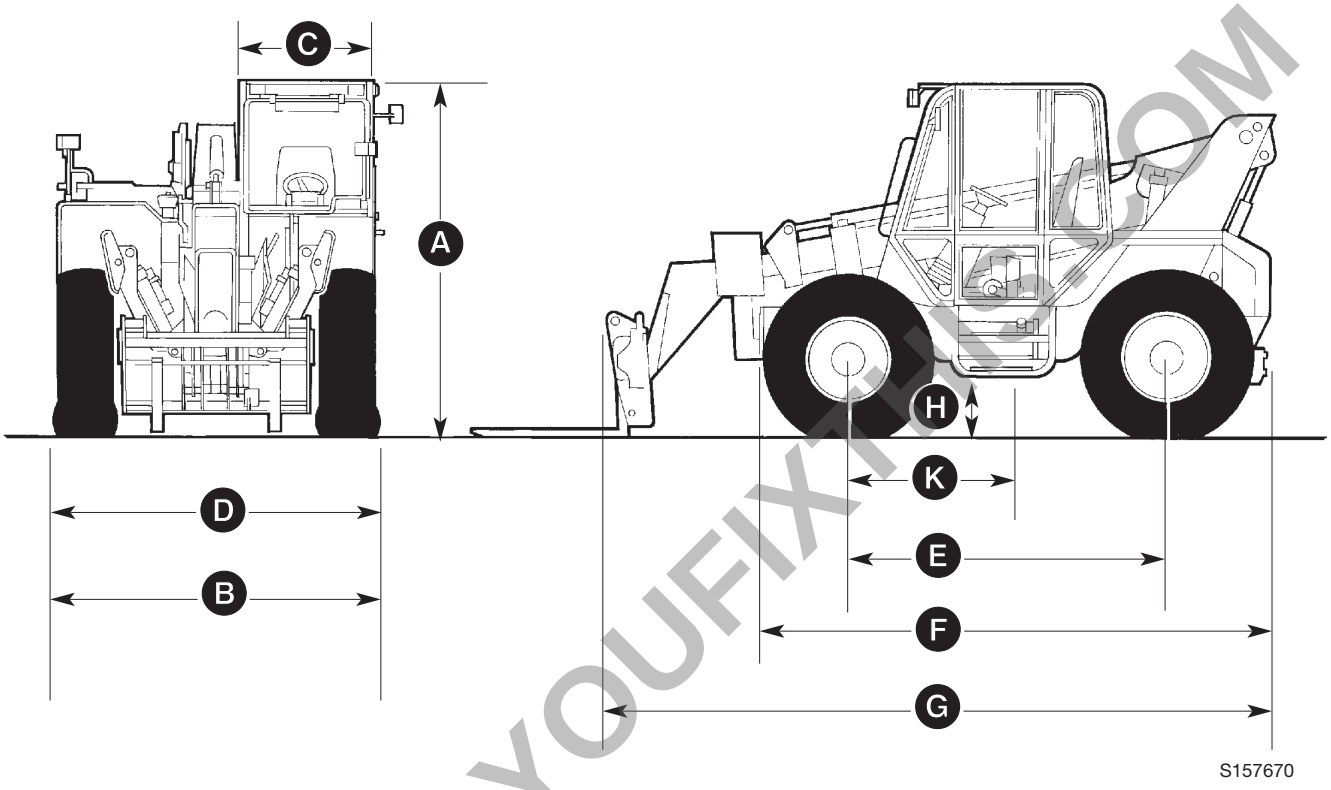
Procedure for reversing direction:
a Stop the machine: keep the foot brakes applied.
b Let the engine speed drop to idle.
c Select the new direction.
d Release the foot brakes and accelerate away.

If the parking brake is engaged when the forward/reverse lever is moved away from neutral an audible warning will sound and the *Parking Brake Engaged Indicator* will light.

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STATIC DIMENSIONS
530-110



	DESCRIPTION	DIMENSION
A	Overall height	2.59 m (8 ft 6 in)
B	Overall width	2.35 m (7 ft 8 in)
C	Inside width of cab (between windows)	0.94 m (3 ft 1 in)
D	Track	1.90 m (6 ft 3 in)
E	Wheelbase	2.49 m (8 ft 2 in)
F	Overall length to front tyres	4.78 m (15 ft 8 in)
G	Overall length to front of Q-Fit carriage	5.60 m (18 ft 4 in)
H	Ground clearance	0.4 m (1 ft 4 in)
K	Centre of gravity (unladen, stabilisers raised)	1.36 m (4 ft 6 in)
	Weight (unladen)	7960 kg (17,550 lbs) Approximately

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TOWING A MACHINE

Do not tow a machine unless there is no alternative. Remember that more damage might be caused to the machine by towing it. If at all possible repair the machine where it stands.

⚠ CAUTION

Towing a machine too far or too fast can damage the transmission. Do not tow the machine further than one mile. Use a trailer for greater distances. When towing do not travel faster than 25 km/h (15 mph).

Use a rigid drawbar. If you must use towing chains, then use two towing vehicles. One towing vehicle should be coupled to the front of the disabled machine. The other towing vehicle should be coupled to the rear of the disabled machine, to provide braking power.

The towing vehicle(s) must have enough pulling and braking power to move and stop the machine.
2-2-7-3

Preparation for Towing

1 Set the Gear Lever to Neutral

2 Select 2-Wheel Steer

3 Prepare the Machine For Travel

*See **Preparing For Road Travel** in OPERATION section.*

If the engine cannot be run, the boom may have to be hoisted into the transport position and secured. The procedure for doing this will depend on the machine's condition and its hydraulic circuits.

For this reason you should contact your JCB distributor for help and advice before attempting this work.

4 Attach The Drawbar To The Front Lifting Eyes

The machine is now ready for towing. If you will be steering the Loadall, make sure you understand what the towing driver will be doing. Obey his instructions and all relevant regulations.

Remember that the steering will be heavier if the engine is not running.

TRANSPORTING THE MACHINE

***Note**: Before transporting the machine make sure you will be obeying the rules and laws of all the areas that the machine will be carried through.*

Make sure that the transporting vehicle is suitable. See SPECIFICATION section for the dimensions and weight of your machine.

⚠ WARNING

Before moving the machine onto the trailer, make sure that the trailer and ramp are free from oil, grease and ice. Remove oil, grease and ice from the machine tyres. Make sure the machine will not foul on the ramp angle. *See SPECIFICATION **section** for the minimum ground clearance for your machine.*
2-2-7-5

1 Chock the Transporter Wheels

Place chocks at the front and rear of the trailer wheels.

***Note**: Before moving the machine on the trailer, make sure that the machine will not foul on the ramp/trailer angle. See SPECIFICATION section for your machine's ground clearance.*

2 Move the Machine Onto the Trailer

Make sure the ramps are correctly in place and secure.

Set the boom as in ***Preparing For Road Travel** in OPERATION section.*

Carefully drive the machine onto the trailer.

When the machine is safely in position, engage the parking brake and set the drive to neutral.

Lower the carriage onto the trailer.

Check that the overall height of the load is within regulations. Adjust if necessary.

Switch off the engine. Secure the cab. Cover the exhaust stack.

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SERVICE REQUIREMENTS

Introduction

Your machine has been designed and built to give maximum performance, economy and ease of use under a wide variety of operating conditions. Prior to delivery, your machine was inspected both at the Factory and by your Distributor to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble free operation it is important that the routine services, as specified in this Handbook, are carried out by an approved JCB Distributor at the recommended intervals.

Maintenance

This section of the Handbook gives full details of the service requirements necessary to maintain your JCB machine at peak efficiency.

To further protect your machine's performance it is essential your JCB Distributor carries out an initial service and inspection when the machine is one month old or when it has completed 100 hours of operation (whichever occurs first). You should notify your Distributor in advance to allow the necessary arrangements to be made.

JCB regularly updates its Distributors advising them of any product developments, changes in specifications and procedures. Therefore only a JCB Distributor is fully able to maintain and service your machine.

At the rear of this Handbook is a Service Record Sheet which will enable you to plan your service requirements and keep a service history record. This record sheet should be dated, signed and stamped by your Distributor each time your machine is serviced.

Remember, if your machine has been correctly maintained, not only will it give you improved reliability but its resale value will be greatly enhanced.

Owner/Operator Support

JCB together with your Distributor wants you to be completely satisfied with your new JCB machine. If you do encounter a problem however, you should contact your Distributor's Service Department which is there to help you!

You will have been given the names of the relevant service contacts at your Distributor when the machine was installed.

To get the most from your Distributor please help the staff to satisfy you by:

1 Giving your name, address and telephone number.

2 Quoting your machine model and serial number.

3 Date of purchase and hours of work.

4 Nature of the problem.

Remember, only your JCB Distributor has access to the vast resources available at JCB to help support you. In addition, your Distributor is able to offer a variety of programmes covering Warranty, Fixed Price Servicing, Safety Inspections, including weight tests, covering both legal and insurance requirements:

Service/Maintenance Agreements

To help plan and spread the costs of maintaining your machine, we strongly recommend you take advantage of the many Service and Maintenance Agreements your Distributor can offer. These can be tailor made to meet your operating conditions, work schedule etc.

Please consult your JCB Distributor for details.

SERVICE SCHEDULES

A badly maintained machine is a danger to the operator and the people working around him. Make sure that the regular maintenance and lubrication jobs listed in the service schedules are done to keep the machine in a safe and efficient working condition.

Apart from the daily jobs, the schedules are based on machine running hours. Keep a regular check on the hourmeter readings to correctly gauge service intervals. Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are rectified immediately.

⚠ WARNING

Maintenance must be done by suitably qualified personnel. If it is necessary to work with the boom raised, then the boom safety strut must be installed. See **Boom Safety Strut** (MAINTENANCE section).

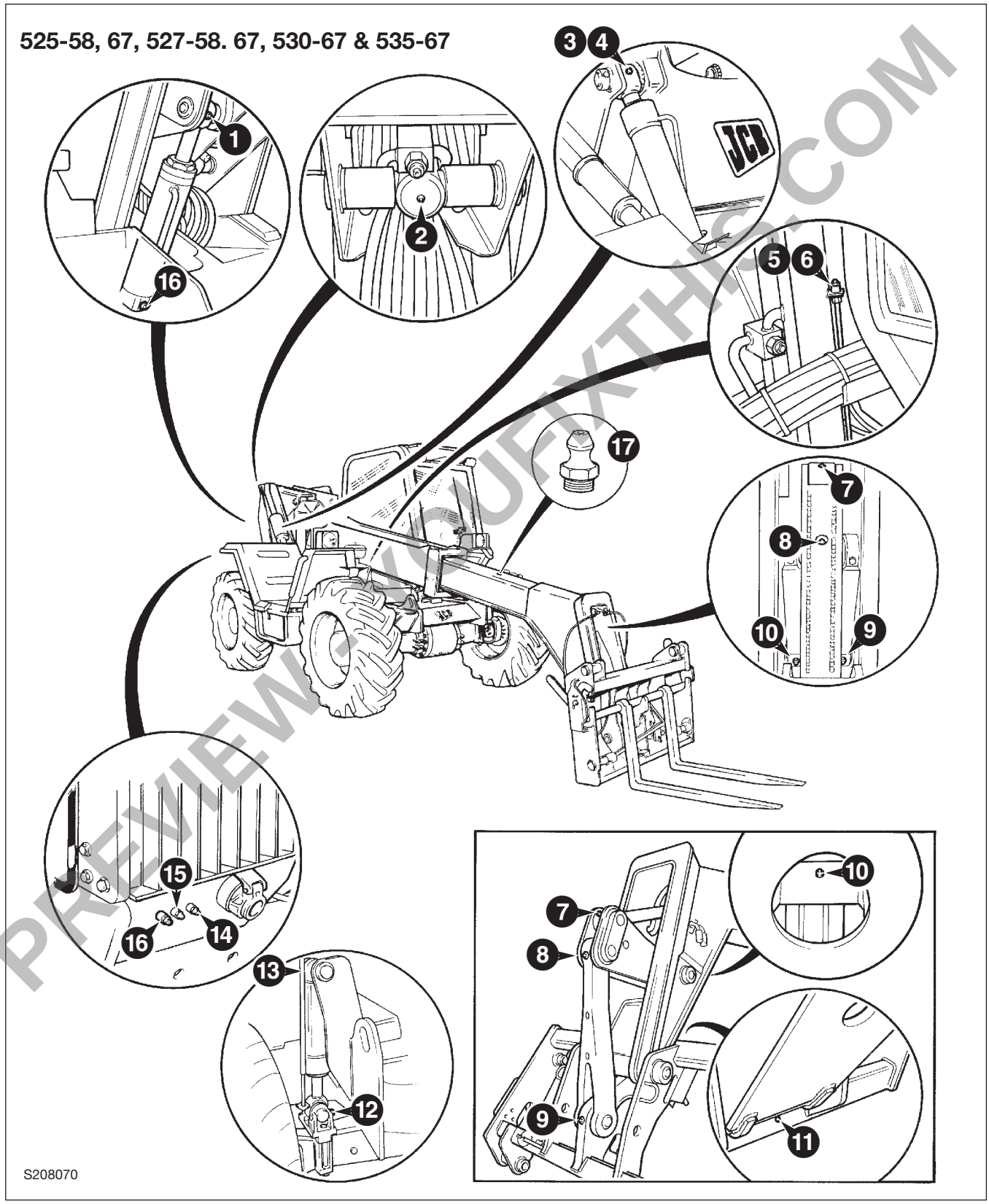
5-3-1-1

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GREASING (EVERY 50 HOURS) (continued)

Pivot Pins



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INDUSTRIAL FORK FRAMES

Industrial Fork Frames are available in two widths: 1.37 m (4 ft 6 in) and 1.98 m (6 ft 6 in). Both are **Q-Fit** attachments. Each frame includes a Rating Plate which gives its weight and its maximum Safe Working Load.

The forks should always be used in pairs as supplied. Each fork is stamped with its Part No. and Safe Working Load.

⚠ CAUTION

The Safe Working Load stamped on each fork is for the fork itself. It is not for the machine to which the fork may be fitted. Never exceed the loading limits given on the Load Charts in the cab of your machine.
5-5-4-4

Safety

Obey all the safety instructions given in the main part of this book, plus the ones given in this section.

Operation

As for a standard carriage.

Preparing For Travel

As for a standard carriage.

Installing and Removing the Frame

*See **Installing and Removing Q-Fit Attachments** (this section).*

Installing and Removing Forks

⚠ CAUTION

The forks are heavy. Take care when lifting and handling them.

Use suitable lifting tackle. Make sure the lifting tackle is in good condition. Make sure the lifting tackle complies with all pertinent regulations.

Wear gloves and safety shoes.
5-5-4-5

1 Lower the carriage so that the forks are horizontal and just above the ground. Stop the engine. Ensure that the parking brake is engaged.

2 To remove or reposition a fork, raise the spring-loaded pin **A** and slide the fork along the rail **B**. If repositioning, ensure that pin **A** fully engages in a slot in the rail.

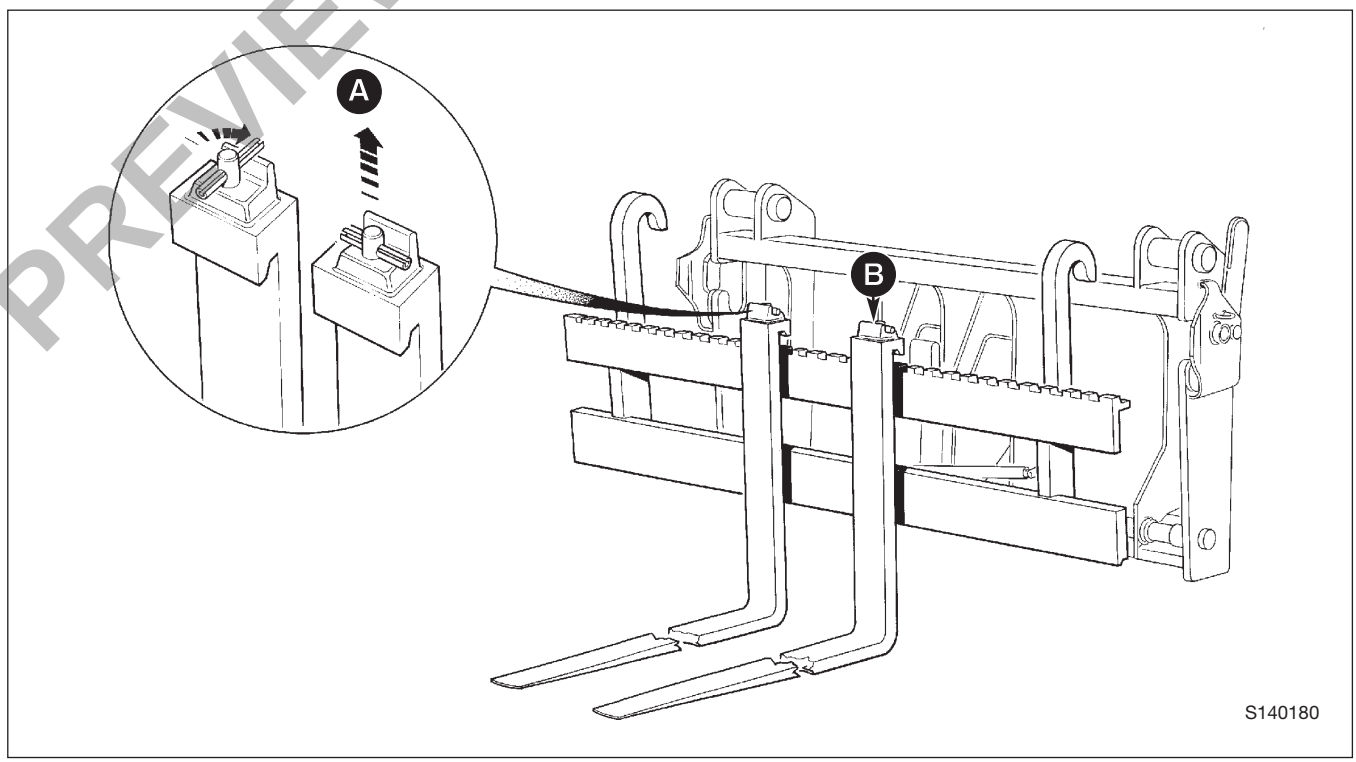
Maintenance

***Note**: Forks should be checked as instructed on any relevant State or National regulations which concern these items.*

Daily

Clean with the rest of the machine.

Check for damage. Check forks for cracks - especially at the heel. Check forks for excessive wear under the tips and heels. Check that fork feet are straight.



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SERVICE SCHEDULES (continued)

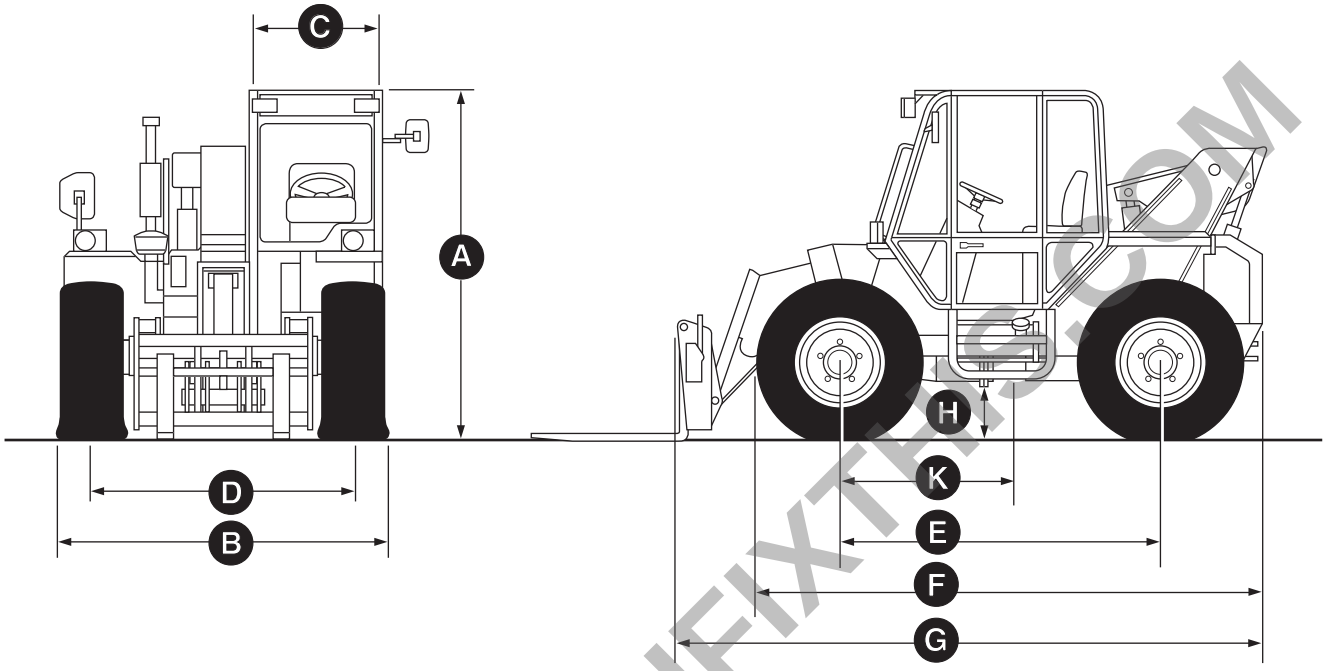
Pre-start Cold Checks Service Points and Fluid Levels	Operation	Daily 10 Hr	Weekly 50 Hr	Monthly 250 Hr	6 Monthly 500 Hr	Yearly 1000 Hr	2 Yearly 2000 Hr
ENGINE							
Engine Air Filter Pre-cleaner	Clean	•	•	•	•	•	•
Coolant Level and Condition	Check	•	•	•	•	•	•
Fuel System For Leaks and Contamination	Check	•	•	•	•	•	•
Oil Level and Condition	Check	•	•	•	•	•	•
Fuel Filter	Drain		•	•	•	•	•
Fuel Sedimenter	Drain and Clean			•	•	•	•
Air Cleaner Dust Valve	Clean			•	•	•	•
Oil and Filter	Change			•	•	•	•
Fuel Lift Pump Screen	Clean				•	•	•
Engine Mounting Bolts	Check				•	•	•
Fuel Filter	Change				•	•	•
Air Cleaner Outer Element	Change					•	•
Fuel Injectors	*Clean and Test						•
Valve Clearance and Lubrication	*Check						•
Air Cleaner Inner Element	Change						•
Coolant	Change						•
Fan Belt Tension/Condition	Check				•	•	•
Engine Exhaust for Security	Check						•
TRANSMISSION AND AXLES							
Transmission Oil Level	Check	•	•	•	•	•	•
Tyre Pressures and Condition	Check	•	•	•	•	•	•
Tightness of Wheel Nuts	Check	•	•	•	•	•	•
Front Axle Oil Level	Check		•	•	•	•	•
Front Axle Hub Oil Level	Check		•	•	•	•	•
Rear Axle Oil Level	Check		•	•	•	•	•
Rear Axle Hub Oil Level	Check		•	•	•	•	•
Rear Axle and Drive Shafts	Grease		•	•	•	•	•
Front Axle and Drive Shafts	Grease		•	•	•	•	•
Wheel Alignment	Check	•	•	•	•	•	•
Wheel Bearings	*Check and Adjust				•	•	•
King Pin and Bushes	*Check and Adjust				•	•	•
Transmission Oil Filter	Change				•	•	•
Rear Axle Oil	Change				•	•	•
Rear Axle Hub Oil	Change				•	•	•
Front Axle Oil	Change					•	•
Front Axle Hub Oil	Change					•	•
Transmission Oil	Change					•	•
HYDRAULICS							
Hydraulic Fluid Level	Check	•	•	•	•	•	
System for Leaks	Check	•	•	•	•	•	
Condition of Ram Piston Rods	Check			•			
Oil Filter	Change				•	•	•
Oil (and clean suction strainers)	*Change						•

***Note**: Jobs which should be done by a specialist are shown by *.*

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STATIC DIMENSIONS
525-58, 525-67, 527-58, 527-67



A122340

DESCRIPTION		DIMENSION			
		525-58, 527-58	525-58FS, 527-58FS	525-67, 527-67	525-67FS, 527-67FS
A	Overall height	2.59 m (8 ft 6 in)	2.57 m (8 ft 5 in)	2.59 m (8 ft 6 in)	2.57 m (8 ft 5 in)
B	Overall width	2.34 m (7 ft 8 in)	2.35 m (7 ft 8 in)	2.34 m (7 ft 8 in)	2.35 m (7 ft 8 in)
C	Inside width of cab (between windows)	0.93 m (3 ft 0 in)	0.93 m (3 ft 0 in)	0.93 m (3 ft 0 in)	0.93 m (3 ft 0 in)
D	Track	1.90 m (6 ft 3 in)	1.90 m (6 ft 3 in)	1.90 m (6 ft 3 in)	1.90 m (6 ft 3 in)
E	Wheelbase	2.38 m (7 ft 10 in)	2.38 m (7 ft 10 in)	2.49 m (8 ft 2 in)	2.49 m (8 ft 2 in)
F	Overall length to front tyres	3.87 m (12 ft 8 in)	3.87 m (12 ft 8 in)	4.05 m (13 ft 3 in)	4.05 m (13 ft 3 in)
G	Overall length to front of Q-Fit carriage	4.46 m (14 ft 7 in)	4.46 m (14 ft 7 in)	4.79 m (15 ft 8 in)	4.79 m (15 ft 8 in)
H	Ground clearance	0.42 m (1 ft 5 in)	0.40 m (1 ft 4 in)	0.42 m (1 ft 5 in)	0.40 m (1 ft 4 in)
K	Centre of gravity (unladen)	1.21 m (3 ft 11 in)	1.21 m (3 ft 11 in)	1.34 m (4 ft 3 in)	1.34 m (4 ft 3 in)
Weight (unladen)		6300 kg (13,860 lb)	6300 kg (13,860 lb)	6422 kg (14,128 lb)	6422 kg (14,128 lb)

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FRONT AND REAR HUB

Checking the Hub Oil Levels

Both hubs must be checked separately.

1 Prepare the Machine

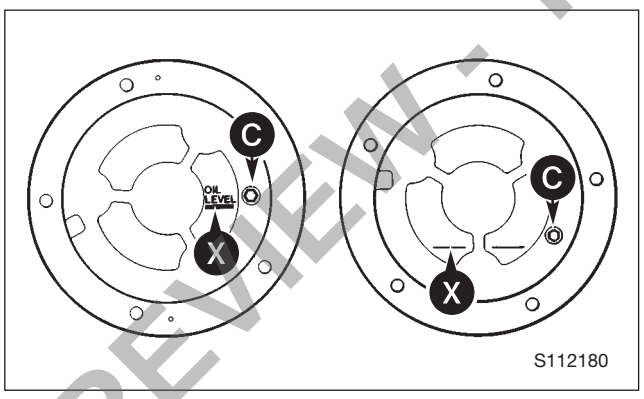
Park the machine on level ground with the OIL LEVEL mark **X** horizontal as shown. (Note that the front and rear hubs have different level marks.) Engage the parking brake. Lower the forks to the ground. Stop the engine. Remove the starter key.

2 Check/Add Oil Front Hub

Clean the area around the front plug **C**. Remove the plug. Oil should be level with the bottom of the hole. If necessary add recommended oil. *(See the chart at the end of MAINTENANCE section for capacity).* Clean the plug before refitting it.

3 Check/Add Oil Rear Hub

Clean the area around the rear plug **D**. Remove the plug. Oil should be level with the bottom of the hole. If necessary add recommended oil. *(See the chart at the end of MAINTENANCE section for capacity.)* Clean the plug before refitting it.



Changing the Hub Oil

1 Prepare the Machine

Park the machine on level ground, with plug **C**, **D** at the bottom as shown. Engage the parking brake. Lower the forks to the ground. Stop the engine. Remove the starter key.

2 Drain the Oil Front Hub

a Place a container of suitable size beneath plug **C**. *(To catch the oil, see the chart at the end of MAINTENANCE section for capacity.)*

b Remove plug **C**. Allow the oil to drain out. The drain plug is magnetic. Wipe it clean. *(Metallic particles should be carefully removed).*

3 Drain the Oil Rear Hub

a Place a container of suitable size beneath plug **D**. *(To catch the oil, see the chart at the end of MAINTENANCE section for capacity).*

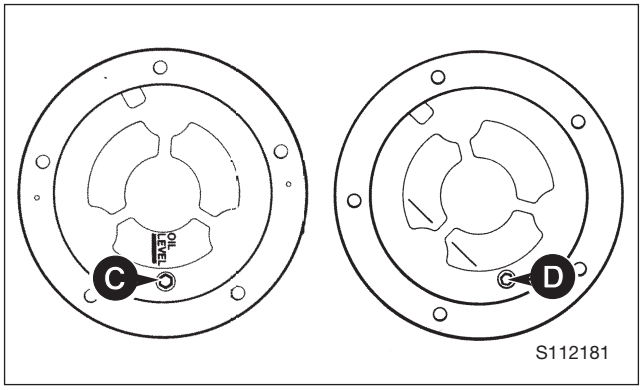
b Remove plug **D**. Allow the oil to drain out. The drain plug is magnetic. Wipe it clean. *(Metallic particles should be carefully removed).*

⚠ CAUTION

Oil will gush from the hole when the drain plug is removed. Keep to one side when you remove the plug.
2-3-4-2

4 Fill with New Oil

See **Checking the Hub Oil Levels**.



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