



Service Manual **LOADALL**

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Introduction

This publication is designed for the benefit of JCB Distributor Service Engineers who are receiving, or have received, training by JCB International Training Centre.

These personnel should have a sound knowledge of workshop practice, safety procedures, and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment.

Renewal of oil seals, gaskets, etc., and any component showing obvious signs of wear or damage is expected as a matter of course. It is expected that components will be cleaned and lubricated where appropriate, and that any opened hose or pipe connections will be blanked to prevent excessive loss of hydraulic fluid and ingress of dirt. Finally, please remember above all else **SAFETY MUST COME FIRST!**

How to use this manual

The manual is compiled in sections, the first three are numbered and contain information as follows:

- 1** = **General Information** - includes torque settings and service tools.
- 2** = **Care & Safety** - includes warnings and cautions pertinent to aspects of workshop procedures etc.
- 3** = **Routine Maintenance** - includes service schedules and recommended lubricants for all the machine.

The remaining sections are alphabetically coded and deal with Dismantling, Overhaul etc. of specific components, for example:

- A** = **Attachments**
- B** = **Body & Framework** ...etc.

The page numbering in each alphabetically coded section is not continuous. This allows for the insertion of new items in later issues of the manual.

Section contents, technical data, circuit descriptions, operation descriptions etc are inserted at the beginning of each alphabetically coded section.

READ the section contents to locate machine types, machine type identification **IS NOT** listed on individual pages.

All sections are listed on the title page; tabbed divider cards align directly with individual sections on the front cover for rapid reference.

Where a torque setting is given as a single figure it may be varied by plus or minus 3%. Torque figures indicated are for dry threads, hence for lubricated threads may be reduced by one third.

'Left Hand' and 'Right Hand' are as viewed from the rear of the machine facing forwards.

* This Service Manual covers the following machines, from Serial Number 277001

- 520-55 RS (Rear Steering) Farm Special & Construction
- 520-55 AWS (All Wheel Steering) Farm Special & Construction
- 526-55 Farm Special & Construction
- 526-55 AWS (All Wheel Steering) Farm Special & Construction
- 526S AWS (All Wheel Steering) Farm Special & Construction

Machine History

Date	Machine	Description
1993 Serial No. 277001	520-55 RS (277001 - 279114) Machine introduction	The machine incorporated twin brake pedals to operate an independent brake circuit controlling each of the front wheels. This allowed single wheel braking to reduce the turning circle. The pedals could be locked together for road use. The machine was also equipped with manually selectable 2/4-wheel drive.
1994 Serial No. 277386 278610	520-55 AWS (504B N.Am) (277386 - 278966) Machine introduction JCB axles, drop box and 4 wheel power brakes fitted.	The machine was fitted with permanent four wheel steering and four-wheel braking.
1994 Serial No. 277468	526-55 (277467 - 278966) Machine introduction	Introduced as a development of the 520-55 with a stronger inner boom and larger lift, tilt and displacement rams. The machine was fitted with JCB manufactured axles and drop box, and incorporated four-wheel power brakes. The machine was equipped with three manually selectable steering modes and an optional turbo-charged engine was available.
1996 Serial No. 278967	520 & 526 520 (278967 onwards) 526 (278967 - 279567) Machine introduction	520-55 and 526-55 machines re-named 520 and 526. These machines incorporated a revised hydraulic tank, plastic fuel tank, fenders and engine cover.
1996 Serial No. 279289 280300 280577	526, 526S (526 Am.N) (279289 onwards) Machine introduction ECU controlled powershift available as an option. Single lever control and trailer braking. Power brakes replaced by inboard, front axle brakes. ECU control was replaced by relay controlled transmission.	The 526 and 526S machine incorporated a longer wheelbase to allow for 24in. wheels and tyres on the 526S machine only. Drop box fitted with helical gears from axle serial number 453/275/00005.
1996 Serial No. 279598	520S (279598 onwards) Machine introduction	Introduced as a 90 hp turbo-charged engine version of the 520 machine. The stronger inner boom on the 526 was introduced to cope with the increased engine power.