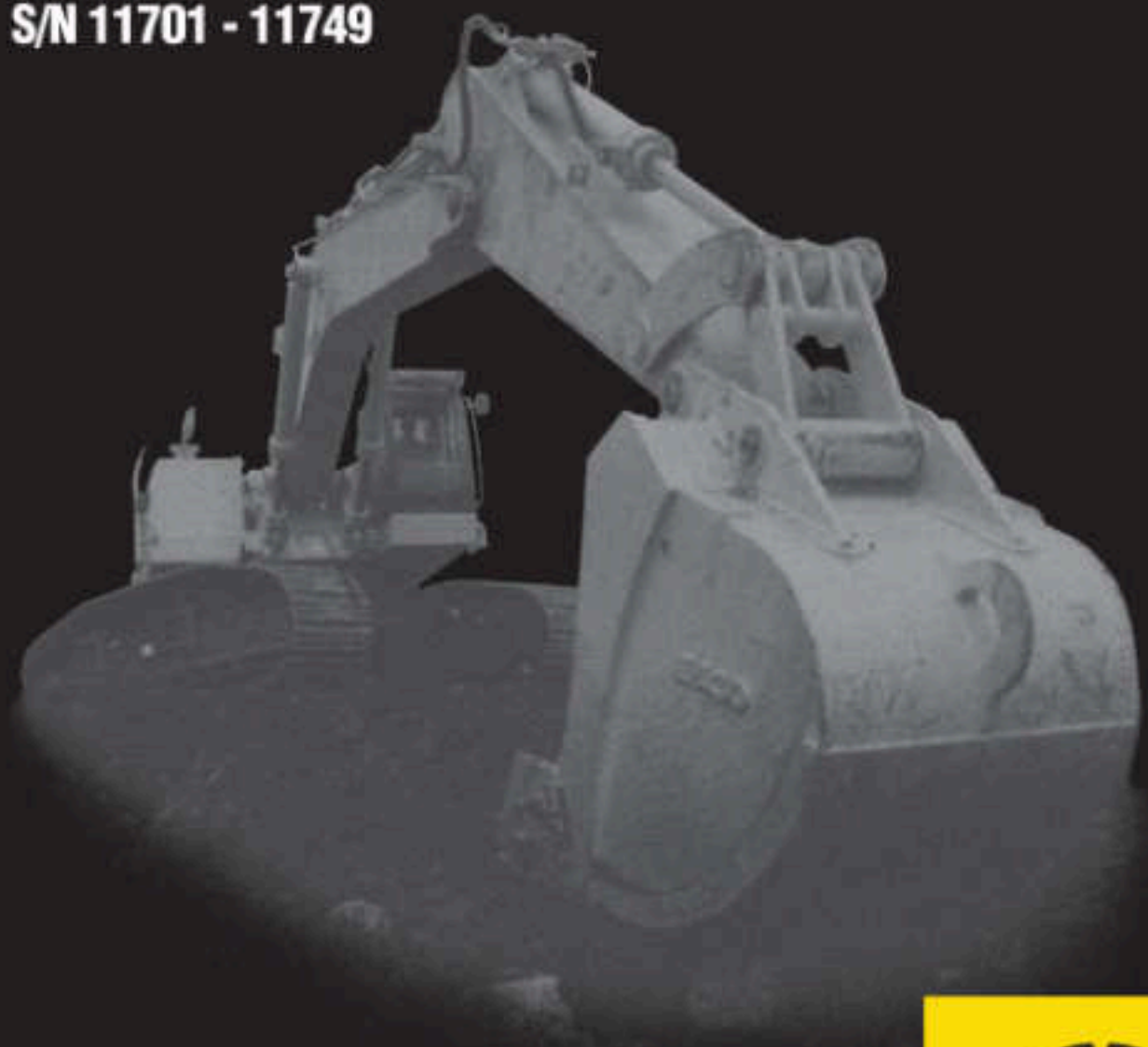
OPERATOR'S MANUAL

Excavator Crawlers EC130
S/N 11701 - 11749



NEW HOLLAND
CONSTRUCTION

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publication 731...

Order the manual at mid-west-tech.com >

PART 1 - INTRODUCTION

PREFACE 3

Warnings and symbols 4

DESIGNATED USE 4

Organizational measures 5

Selection and qualification of personnel - basic responsibilities 6

Safety instructions governing specific operational phases

Standard operation 6

Special work in conjunction with utilization of the machine - maintenance and repairs during operation - disposal of parts and consumables 7

Warning of special dangers

Electric energy 8

Gas, dust, steam and smoke 8

Hydraulic and pneumatic equipment 9

Noise 9

Oil, grease and other chemical substances 9

Transporting and towing - recommissioning 9

California, Proposition 65 Warning 9

SAFETY PRECAUTIONS FOR OPERATION 10

General 10

Before Operation 12

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

PART 2 - OPERATION

Operation - safety instructions 21

DESCRIPTION OF THE MACHINE

Machine layout 25
Superstructure 25
Undercarriage 25
Working equipment 25
Undercarriage 25
Superstructure 25
Hydraulic system 25
Steering 25
Crawler unit brake 25
Electrical system 25
Working equipment 25

SIGNS

Warning and instruction signs 27
Machine number 27
Engine number 27
Component numbers 27

DRIVERS'S CAB

Climbing Up and Down 28
Opening / Closing the Driver's Cab Door 29
Adjustment of driver's seat 30
Adjustment of seat suspension. 30
Fore and aft adjustment of seat 30
Adjustment of seat position 30
Adjustment of backrest inclination 30
Adjustment of armrests 30

Adjusting the control console position

Adjusting the Mirrors 32
Opening and Closing the Windscreen 32
Front window - Removing the lower part 33
Opening / closing side window 33
Emergency exit 33
Using the Sunshade 34
Rolling out the Sunshade 34
Rolling up the Sunshade 34
Cab interior lamp - switching on and off 35
Socket outlet in cab 35

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

MONITORING-, WARNING- AND CONTROL ELEMENTS

Description of control panel 36
Control panel operating instructions 37

Control panel 38

Supplementary control panel 46

Control elements (SAE-control) 48

STARTING UP THE MACHINE 52

Refuelling

Refuelling, safety instructions 52
Refuelling 52

Switching the electrical system on and off 53

Immobilizer, entering the code 54

Starting and stopping the engine

Starting the engine 55
Starting the engine with cold-starting aid 56
Engine does not start 57
Shutting off the engine 57

Ventilation and heating

Ventilation 58
Heating 58
Adjusting the heating performance 58
Defrosting the front and rear screens 59
Switching the windscreen wiper / washer on and off 59
To activate intermittent wiping 59
To activate permanent wiping 59
To de-activate the wiper 59
To activate the wipe / wash function 59

DRIVING 60

Driving - Safety instructions 60

Fastening the retaining belt 61

Bringing the machine to basic position 62

Selecting direction of travel 62

Braking and stopping

Braking travelling movement 63

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Switching off the pilot control

2796969

- Set lever (77, Fig. 9) to position **0**. The lefthand control console swings upwards and the hydraulic pilot control is off.

WARNING

Before leaving the driver's seat set lever (77, Fig. 9) to position "0" to prevent working functions, such as swinging of the superstructure, from being inadvertently activated by touching one of the control levers or pedals.

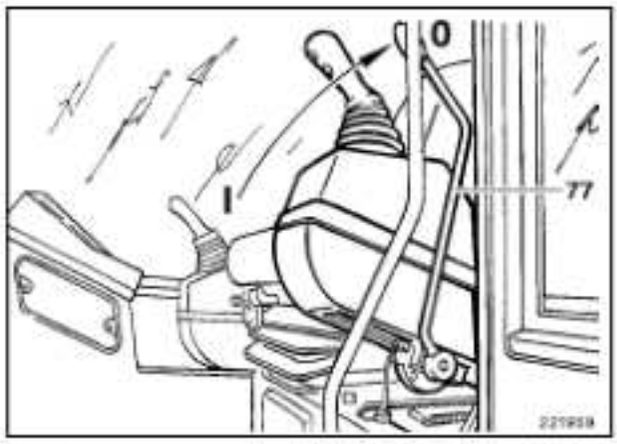


Fig. 9 □

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Removing, checking, and cleaning the main filter element

2904100

The warning lamp "Air intake system" (14, Fig. 2) lits up when the main filter element must be serviced.

If this is the case, the main filter element is so badly contaminated that it no longer allows an adequate volume of air through.

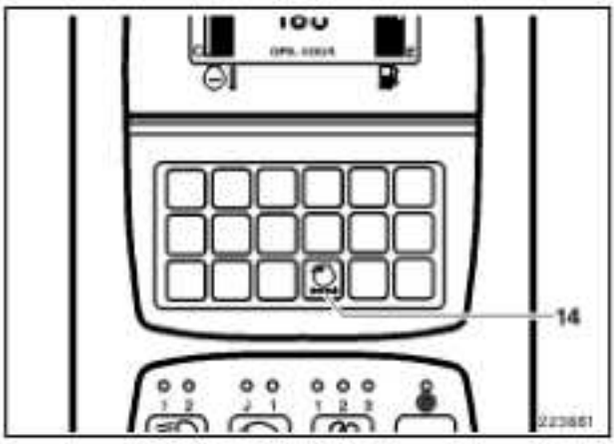


Fig. 2

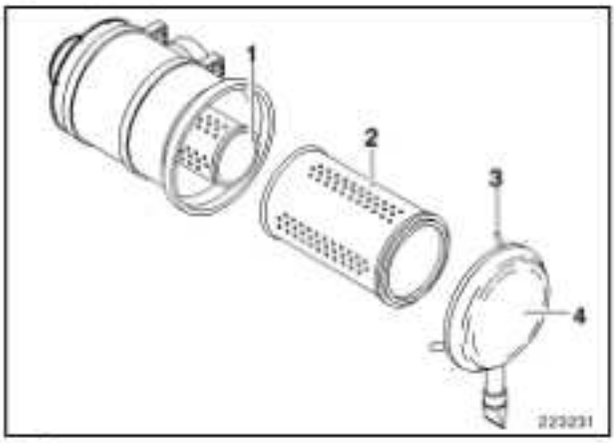


Fig. 3

- Unsnap clamps (3, Fig. 3) and remove cover (4).
- Draw filter element (2) carefully out of the air filter housing.
- The safety filter element (1) remains installed.
- Clean the filter element using compressed air at max. 6 bar (87 psi). Insert the ompressed air nozzle (Fig. 4) and hold it approx. 3 cm (1.18") from the paper.

  Never clean filter element by beating against hard objects to avoid damage.
- The main filter element must replaced once it has been cleaned three times, and at the latest after one year operating time.

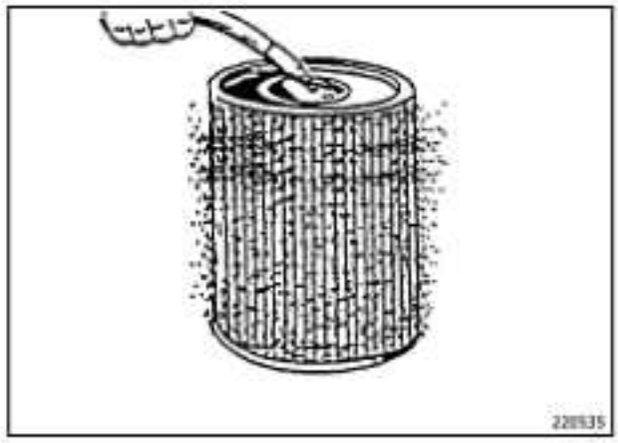


Fig. 4

- Carry out a visual inspection:
  - Put a lamp into the filter element. Emission of light indicates damaged locations (Fig. 5).
  - The filter element must not be deformed.
  - The rubber seals of the filter element must not be damaged.



Fig. 5

If damage is present the filter element must not be reinstalled.

- Clean interior of air filter housing and cover.
- Install checked and cleaned filter element or new filter element.
- Clean dust collector and install cover. □

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Tightening torques - Table

2500285

The screws and nuts used in this machine have an ISO metric thread.

If new screws or nuts are needed, they must have the same dimensions and be of the same grade as those replaced.

The grade is indicated on the screw head or on the nut (e.g. 8.8, 10.9 or 12.9).

For tightening of screws and nuts please use tools with metric size indication of the width over flats only. The width-over-flats dimensions of the screws to be checked in compliance with the servicing schedules are set out in the following table.

A table with all other width-over-flats dimensions can be found in the Technical Handbook.

Screw	Screw size			M_A	Torque
	Thread size	Material grade	Wrench size (mm)	Nm	lbft
Swing ring	M 16[1]	10.9	24	250	184
Travel gear unit	M 16[1]	10.9	24	295	217
Swing gear	M 16[1]	10.9	24	250	184
Counterweight	M 30[1]	12.9	46	2250	1660
Tread roller	M 16[1]	12.9	24	320	236
Track carrier roller	M 16[1]	10.9	24	295	218
Crawler shoes	M 14 x 1.5[1]	12.9	22	300	221

[1] lightly oiled

□

MidWestTech | New Holland EC130 Crawler Excavator Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >