CASE

PROFESSIONAL PARTNER

OPERATOR'S MANUAL

COMPACT WHEEL LOADER

21E
121E
221E
321E
SERIES 3
TIER 3

87682102 NA

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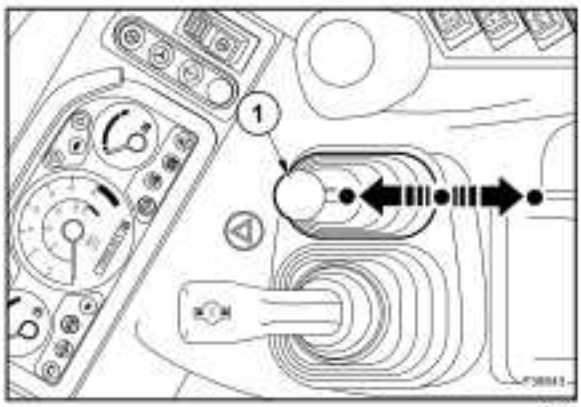
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CONTROL LEVER ADDITIONAL FUNCTION

Control lever (1) can be used switching additional hydraulic functions, e.g. hydraulic quick tool coupler, bottom-dump bucket, sweeper attachment.

In the foremost position, control lever (1) has a lock facility, useful for sweeper operation.

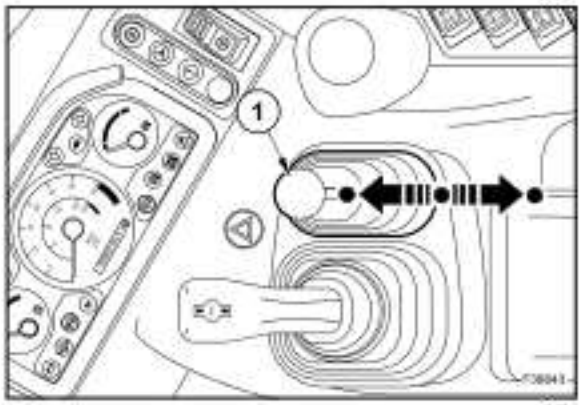


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4 x 1 BUCKET (OPTIONAL)

Control lever (1) initiates the following working movements:

- control lever (1) forwards - 4 x 1 bucket opening;
- control lever (1) backwards - 4 x 1 bucket closing.



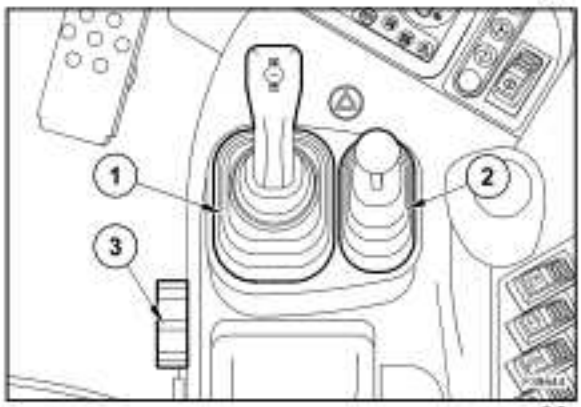
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LOCKING THE CONTROL LEVERS

Control levers (1) and (2) have a common mechanical locking device. With which the working hydraulic functions can be locked, e.g. for road travel.

Turn knob (3) counterclockwise until the marking aligns with the "locked" symbol.

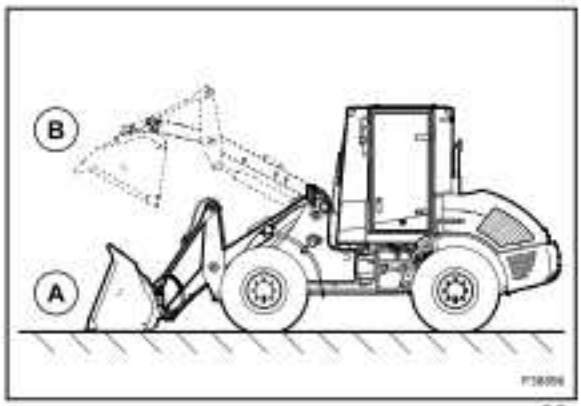
Turn knob (3) clockwise until the marking aligns with the "unlocked" symbol.



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RETURN TO DIG (OPTIONAL)

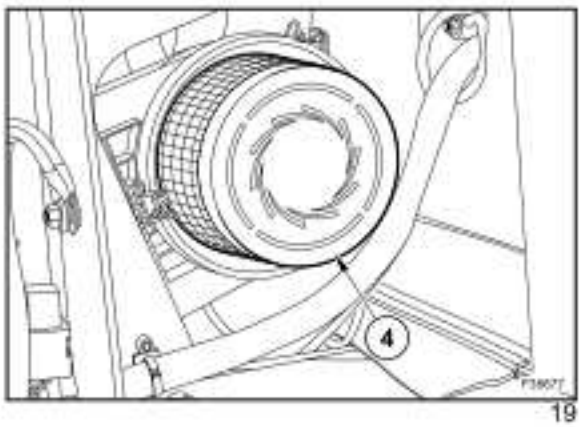
The "return to dig" function brings the bucket back from position (B) to working position (A). Only the boom must be lowered back manually.



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Remove the main filter element (4) with caution.



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MAIN FILTER ELEMENT - CLEANING

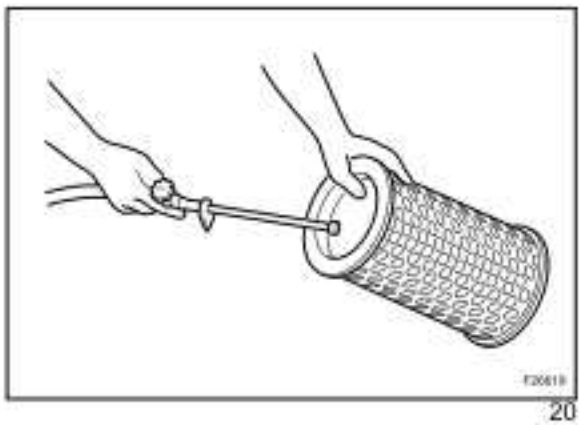
Never clean filter elements by beating them against hard objects.

After three cleaning cycles or after one year of operation at the latest, the main filter element must be replaced.

Never clean filters with petrol and flammable or hot liquids.

Cleaning with compressed air is suitable if the filter element is to be re-used immediately.

The air pressure at the nozzle must not exceed 5 bars (73 psi).


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Start cleaning the filter surface by blowing dry compressed air diagonally from outside into the filter element.

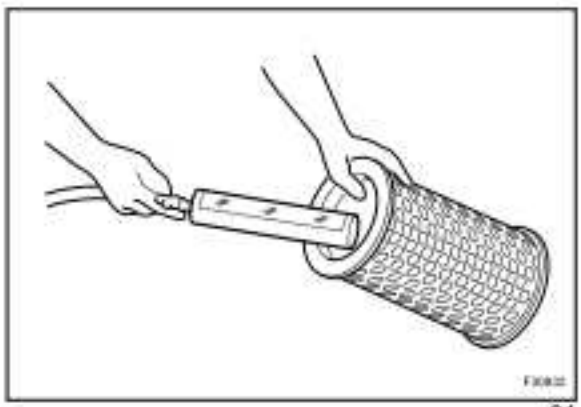
Finally blow compressed air inside the filter element.

Cleaning is finished when all visible dust has been removed from the element.

Checks

Checks before installation of the main filter element.

Check the filter paper with the help of a lamp bulb. Filter damage is indicated where the light shines brightly through the paper. If damaged, replace the main filter element immediately.


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NOISE

	21E	121E	221E	321E
External noise level L_{WA}	99 dB(A)		100 dB(A)	
Internal noise level LpA	75 dB(A)			

WEIGHTS

		21E	121E	221E	321E
Engine	kg (lb)	300 (660)			
Front axle	kg (lb)	230 (506)	318 (700)		
Rear axle (gearbox included) and travel motor	kg (lb)	312 (686)	251 (473)		315 (694)
Cab	kg (lb)	470 (1034)			
Variable-displacement pump	kg (lb)	30 (66)			
Hydraulic motor	kg (lb)	35 (77)			
Lifting equipment	kg (lb)	420 (924)	600 (1320)		
Lifting cylinder	kg (lb)	30 (66)			
Cylinder for quick coupler	kg (lb)	12 (26)			
Counterweight	kg (lb)	393 (865)	415 (913)	676 (1488)	786 (1730)

DIESEL ENGINE

		21E	121E	221E	321E
Iveco model		F5C E9454 B* A003	F5C E9454 C* A001	F5C E9454 E* A004	F5C E9454 G* A001
Operation		4-stroke diesel engine			
Number of cylinders		4			
Bore	mm (in)	99 (3.90)			
Stroke	mm (in)	104 (4.09)			
Total displacement	cm^3 (in^3)	3202 (195.400)			
Maximum torque (at 1400 rpm)	Nm (lbf•ft)	220 (162)	260 (192)	275 (203)	310 (228)
Power ISO 9249	kW/CV	40 / 54	48 / 64	55 / 74	61 / 82
Rated rpm	rpm	2300	2300	2500	2500
Ignition order		1,3,4,2			
Compression ratio		17 ± 0.5 : 1			
Weight	kg (lb)	300 (660)			

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