580N
580SN
580SN WT
590SN
Tier 4

Tractor Loader Backhoe

580N - from PIN NCC560000; 580SN - from PIN NCC564000;
580SN WT - from PIN NCC567500; 590SN - from PIN NCC568500

OPERATOR'S MANUAL

Part number 47492940
3rd edition English
April 2013
Replaces part numbers 84587646 and 47373201

CASE CONSTRUCTION

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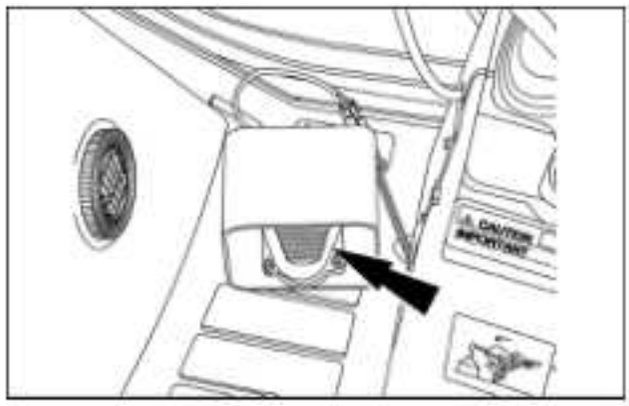
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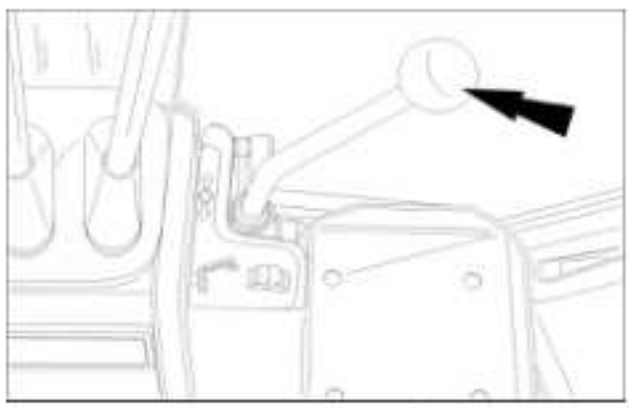
Auxiliary hydraulic controls

Control pedal, uni-directional control



RCPH10TLB116AAF 5

Control lever, bi-directional control



RCPH10TLB177AAF 6

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Transmission

Specification:	CASE AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL	
Capacity:		
Manual (powershuttle)		
	Two wheel drive	Four wheel drive
Total system	**17.0 l (18 US qt)**	**19.4 l (21 US qt)**
Refill (with or without filter change)	**10.5 l (11 US qt)**	**13.0 l (14 US qt)**
Powershift S-type		
	Two wheel drive	Four wheel drive
Total system	**21.7 l (22.9 US qt)**	**20.7 l (21.9 US qt)**
Refill (with or without filter change)	**15.3 l (16.2 US qt)**	**14.3 l (15.1 US qt)**
Powershift H-type		
	Four wheel drive only	
Total system	**18.0 l (19.0 US qt)**	
Refill (with or without filter change)	**11.4 l (12.0 US qt)**	

Front drive axle - Two wheel drive

Specification:	TUTELA TRANSAXLE FLUID SAE 80W-140
Capacity:	
Each hub	**0.8 l (0.8 US qt)**

Front drive axle - Four wheel drive

Specification:	TUTELA TRANSAXLE FLUID SAE 80W-140
Capacity:	
580N, 580SN	
Differential	**7.7 l (8.1 US qt)**
Each planetary hub	**0.5 l (0.5 US qt)**
580SN-WT, 590SN	
Differential	**8.6 l (9.1 US qt)**
Each planetary hub	**1.0 l (1.1 US qt)**

Rear axle (differential)

Specification:	TUTELA TRANSAXLE FLUID SAE 80W-140
Capacity:	
580N, 580SN	**13.6 l (14.4 US qt)**
580SN-WT, 590SN	**18.6 l (19.7 US qt)**

Brake master cylinder

Brake fluid supplied by the transmission.

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Engine air filters

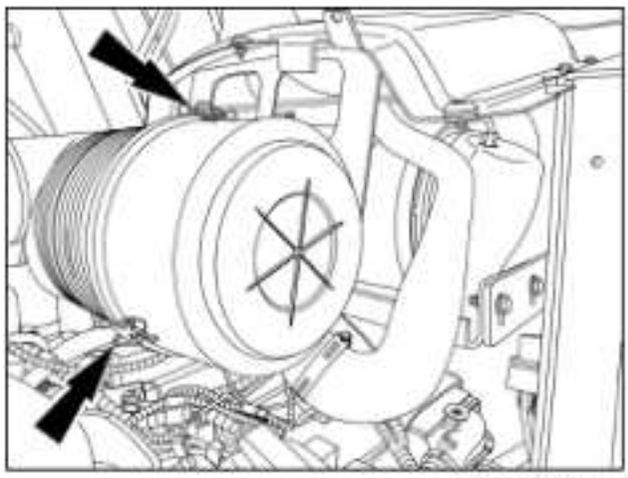
Replace the engine air filter elements and clean the air filter housing every 1000 hours of operation.

Replace the engine air filter whenever the warning lamp remains illuminated while the engine is running.

When changing the inner air filter always provide the cleanest environment possible.

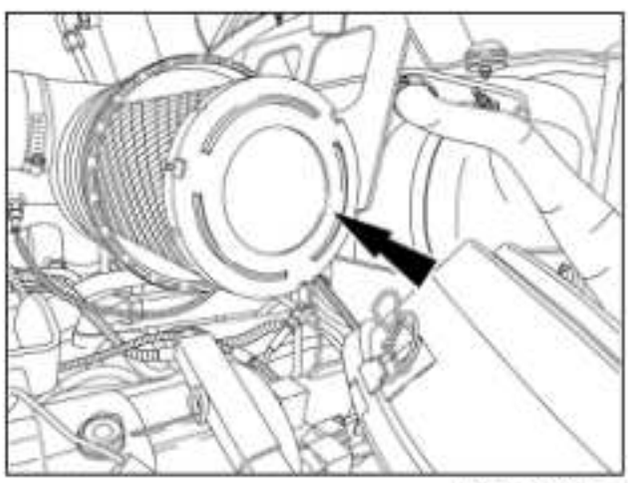
1. Clean the area around the outside front cover of the air filter housing.
2. Inspect the air filter housing and components for damage.
3. Release three clips that secure the air filter housing cover in place.

NOTE: *Third clip not shown.*



RGPH11TLB004BAD 1

4. Remove the primary filter.



RGPH11TLB005BAD 2

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Safety Instruction

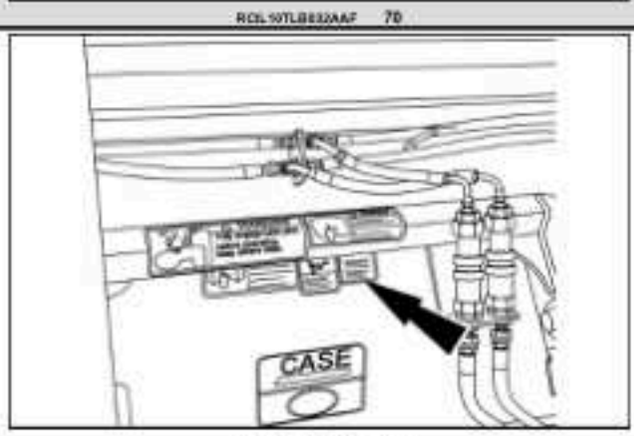
SAFETY
Make sure everyone is clear before operating the machine. Lower attachment, shut off motor and set parking brake before leaving the machine. Relieve pressure and disconnect hydraulic lines before servicing.

Quantity: 1
English RDL–3139



RDL10TLB032AAF 70

(34) Located on4 in 1 bucket, rear center, equipped with hydraulic coupler.



RCPH10TLB118AAF 71

Parking brake

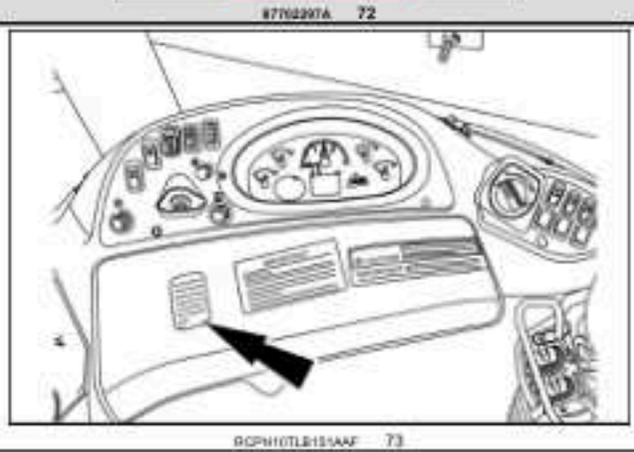
IMPORTANT
Always set parking brake before leaving seat. After startup, cycle park brake switch ON/OFF to release parking brake.

Quantity: 1
English 87702297
Spanish 87708227
French Canadian 87708242
Portuguese 84138361



87702297A 72

(35) Located on right hand console.



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