580N
580SN-WT
580SN
590SN
Loader Backhoe

OPERATOR'S MANUAL

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CASE
CONSTRUCTION

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Contents

1 GENERAL INFORMATION

Intended use 1-1
CNH America LLC technical manuals 1-1
Electro-Magnetic Compatibility (EMC) 1-2
Note to the owner 1-2
Read the Operator's Manual 1-3
Manual storage 1-3
Identification numbers 1-4
Component Identification 1-7
Right, left, front and rear of the machine 1-8

2 SAFETY INFORMATION

Safety rules and signal word definitions 2-1
Proposition 65 2-2
Safety rules - General 2-3
Safety rules - Air conditioning system 2-3
Safety rules - Basic operating 2-4
Safety rules - Battery 2-5
Safety rules - Electrical storm safety 2-6
Safety rules - Fire or explosion prevention 2-6
Safety rules - Fuel handling precautions 2-7
Safety rules - Hazardous chemicals 2-7
Safety rules - Lifting and overhead loads 2-7
Safety rules - Maintenance precautions 2-8
Safety rules - Mounting and dismounting 2-9
Safety rules - Operator precautions 2-9
Safety rules - Specific precautions to this machine 2-10
Safety rules - Transporting precautions 2-10
Safety rules - Utility precautions 2-11
Safety rules - Wheels and tires 2-11
Ductile iron 2-12
Operator protective structure 2-12
Seat belt 2-13
Safety decals 2-14
Bucket and hydraulic coupler decals 2-28
Hand signals 2-33
Do Not Operate hang tag 2-37

3 CONTROLS/INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Machine access 3-1

OPERATOR'S SEAT

Operator seat 3-1

FORWARD CONTROLS

Front console - Left-hand switch panel 3-5
Front console - Right-hand switch panel 3-7

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Steering column 3-8
Gear selector 3-10
Pedal controls 3-12

RH SIDE CONTROLS
Loader functions 3-13
Console controls 3-17
Heating, ventilation or air-conditioning control 3-19
Instrument cluster 3-25
Advanced instrument cluster 3-29

REARWARD CONTROLS
Console controls 3-37
Backhoe controls - Mechanical 3-40
Backhoe controls - Pilot 3-46

OVERHEAD CONTROLS
Dome light 3-51

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT
Run in period of a new machine 4-1
Engine speed 4-1

STARTING THE UNIT
Before starting the engine 4-2
Normal engine starting 4-3
Cold temperature operation 4-4
Hot temperature operation 4-5
Booster battery procedure 4-6

STOPPING THE UNIT
Shutting down the engine 4-7

MOVING THE UNIT
Before operating the machine 4-8
Uniform braking 4-9
Transmission gears 4-10
Machine direction 4-12
Traveling on a hill 4-12
Differential lock system 4-12
Ride control 4-13

5 TRANSPORT OPERATIONS

RECOVERY TRANSPORT
Towing the machine 5-1
Transporting on a trailer 5-3

6 WORKING OPERATIONS

GENERAL INFORMATION
FNR shift sensitivity 6-1
Display brightness 6-2
Maximum throttle/Cold start idle 6-3
Brake enabled idle 6-5
Throttle sensitivity 6-7

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LOADER OPERATIONS

Personal safety 6-8
Job layout 6-9
Comfort Steer 6-10
Detent position for 4 in 1 bucket control switch 6-11
Loader digging force 6-14
Bucket level, position and depth indicators 6-16
Return to dig 6-18
Lifting with the loader 6-20
Changing loader attachments 6-20

BACKHOE OPERATIONS

Personal safety 6-23
Basic instructions 6-23
Backhoe danger area 6-24
Swing lock 6-25
Extendahoe lock 6-25
Stabilizer pads 6-26
Backhoe transport position 6-28
Before operating the backhoe 6-30
Filling the backhoe bucket 6-32
Power lift 6-33
Moving the machine while digging 6-34
Lifting with the backhoe 6-35
Changing backhoe attachments 6-37

7 MAINTENANCE

GENERAL INFORMATION

Safety rules 7-1
General safety before you service 7-2
Hour meter 7-2
Support strut for loader lift arm 7-3
Hood latch 7-5
Fire extinguisher 7-6
Welding on the machine 7-7
Battery access and care 7-8
Capacities 7-9
Consumables 7-11
Fuses and relays 7-13
Diagnostic/service tool port 7-16
Heater coolant shutoff valve 7-16

MAINTENANCE CHART

Maintenance Chart 7-17

At warning message display

Engine air filters 7-19
Hydraulic filter(s) 7-21
Fuel system water separator 7-22

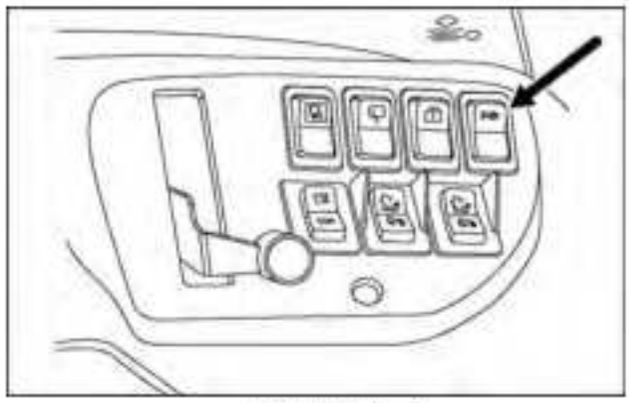
Initial 10 hours

Air conditioning belt 7-24

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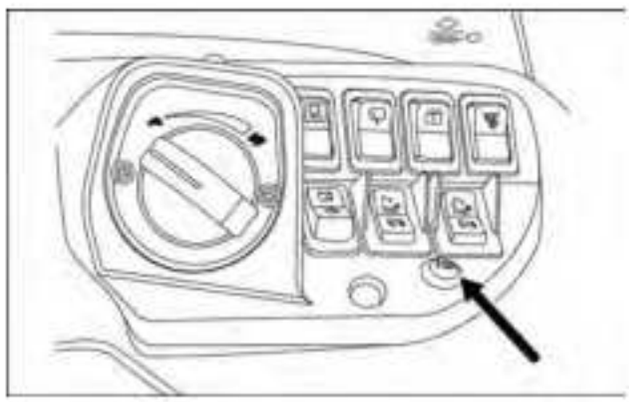
Horn:

- 580N machines: Press and hold the emblem end of the rocker switch to activate the horn. Release to deactivate the horn. The switch returns to the off position.



RCPH10TLB336AAF 7

- 580SN, 580SN-WT, 590SN machines: Push and hold the button to activate the horn. Release to deactivate the horn.



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Auxiliary hydraulics control, if equipped:

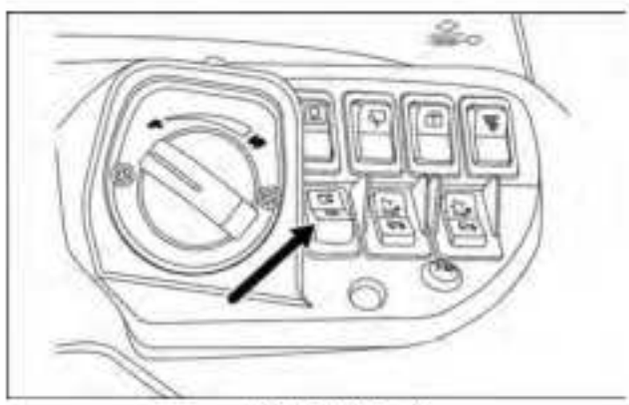
Machines with dual auxiliary hydraulics only. The auxiliary hydraulic switch enables power for the selected hydraulic flow only. For example, if the switch is enabled for bi-directional control, the uni-directional controls (such as the foot pedal) are disabled. Once the switch is enabled, use the auxiliary hydraulic control for the attachment as normal.



Press the top emblem to enable bi-directional auxiliary hydraulics. Use the auxiliary hydraulic control (lever or buttons) for the attachment as normal.



Press the bottom emblem of the rocker switch to enable uni-directional auxiliary hydraulics. Use the auxiliary hydraulic control (pedal or button) for the attachment as normal.



RCPH10TLB339AAF 9

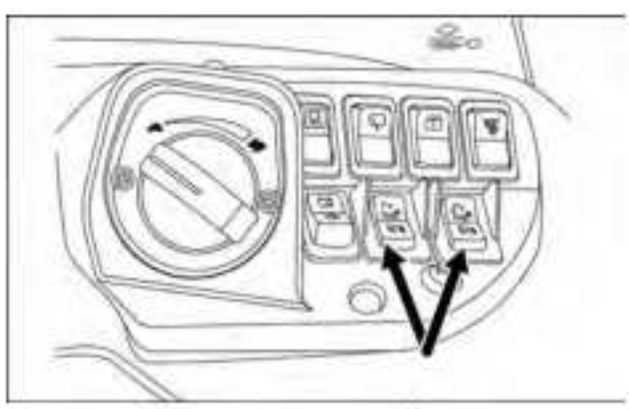
Backhoe quick coupler, if equipped:



Press the top emblem of both rocker switches to disengage or retract the backhoe quick coupler pins.



Press the bottom emblem of both rocker switches to engage or extend the backhoe quick coupler pins.



RCPH10TLB339AAF 10

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Capacities

Engine crank case

Specification:	Case Akcela No. 1 15W-40, API CI-4/SL
Capacity:	
With filter change	**13.6 l (14.4 US qt)**

Fuel tank

Specification:	No. 2 diesel
Capacity:	**159 l (42 US gal)**

Cooling system

Specification:	**50 %** water and **50 %** ethylene glycol
Capacity:	
580N	
Without heater	**16.1 l (17.0 US qt)**
With heater	**16.8 l (17.8 US qt)**
580SN, 580SN-WT, 590SN	
Without heater	**17.3 l (18.3 US qt)**
With heater	**18.0 l (19.0 US qt)**

Hydraulic system

Specification:	Case Akcela Hy-Tran® Ultra
Capacity:	
580N	
Total system	**106.0 l (112.0 US qt)**
Total system with Extendahoe	**111.7 l (118.0 US qt)**
Reservoir with filter change	**47.1 l (12.45 US gal)**
Reservoir without filter change	**45.2 l (11.95 US gal)**
580SN	
Total system	**119.2 l (126 US qt)**
Total system with Extendahoe	**124.9 l (132 US qt)**
Reservoir with filter change	**47.1 l (12.45 US gal)**
Reservoir without filter change	**45.2 l (11.95 US gal)**
580SN-WT	
Total system	**124.9 l (132 US qt)**
Total system with Extendahoe	**130.6 l (138.0 US qt)**
Reservoir with filter change	**47.1 l (12.45 US gal)**
Reservoir without filter change	**45.2 l (11.95 US gal)**
590SN	
Total system	**132 l (139 US qt)**
Total system with Extendahoe	**137.7 l (145 US qt)**
Reservoir with filter change	**47.1 l (12.45 US gal)**
Reservoir without filter change	**45.2 l (11.95 US gal)**

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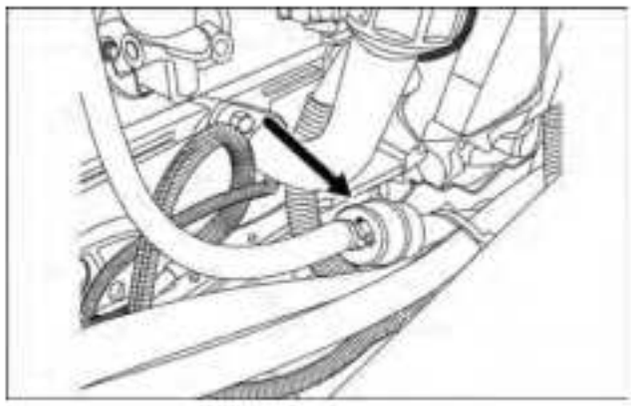
Fuel filters

Replace the fuel filters after the first 100 hours of operation on a new machine or if a major component has been rebuilt. Then replace the fuel filters every 500 hours of operation or after a loss of engine power.

NOTE: *The fuel tank should be full before proceeding.*

580N machines

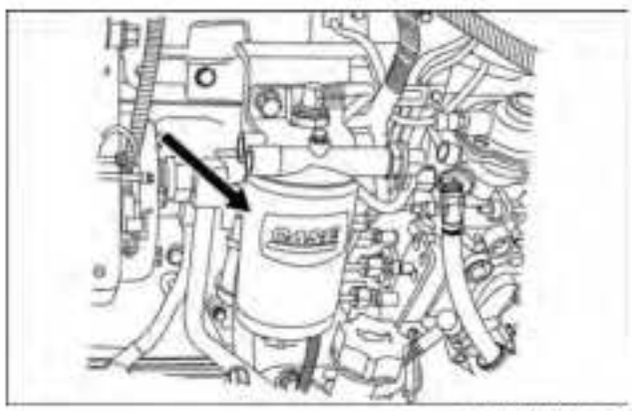
1. Open the fuel tank cap slightly to release pressure.
2. Clean the area around the inline fuel filter and the filter head of dirt and debris.
3. Remove the inline filter. Have a suitable container ready to capture fuel that might spill below the machine.
4. Dispose of the inline filter in accordance with local, regional, and federal regulations.



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NOTICE: *Do not place fuel into the new filter before installing.*

5. Install the new inline filter. Make sure to follow the arrow on the filter for proper direction.
6. Clean the area around the primary fuel filter and the filter head of dirt and debris.
7. Remove the primary filter. Use a filter removal tool, if necessary.
8. Apply clean engine oil to the new primary filter seal.
9. Turn the new primary filter clockwise onto the filter head until the filter gasket makes contact with the filter body.
10. Continue to tighten the primary filter and additional 1/2 to 3/4 turn.



RCPH10TLB048AAF 2

11. Tighten the fuel tank cap.
12. Dispose of the filters and collected fluid in accordance with local, regional, and federal regulations.

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