OPERATOR'S MANUAL

L213 L221
L216 L223
L218 L225
L220 L230
Tier 4
200 Series Skid Steer Loader

C227
C232
C238
Tier 4
200 Series Compact Track Loader

Part number 47540696
1st edition English
July 2013
Replaces part number 47407032

NEW HOLLAND CONSTRUCTION

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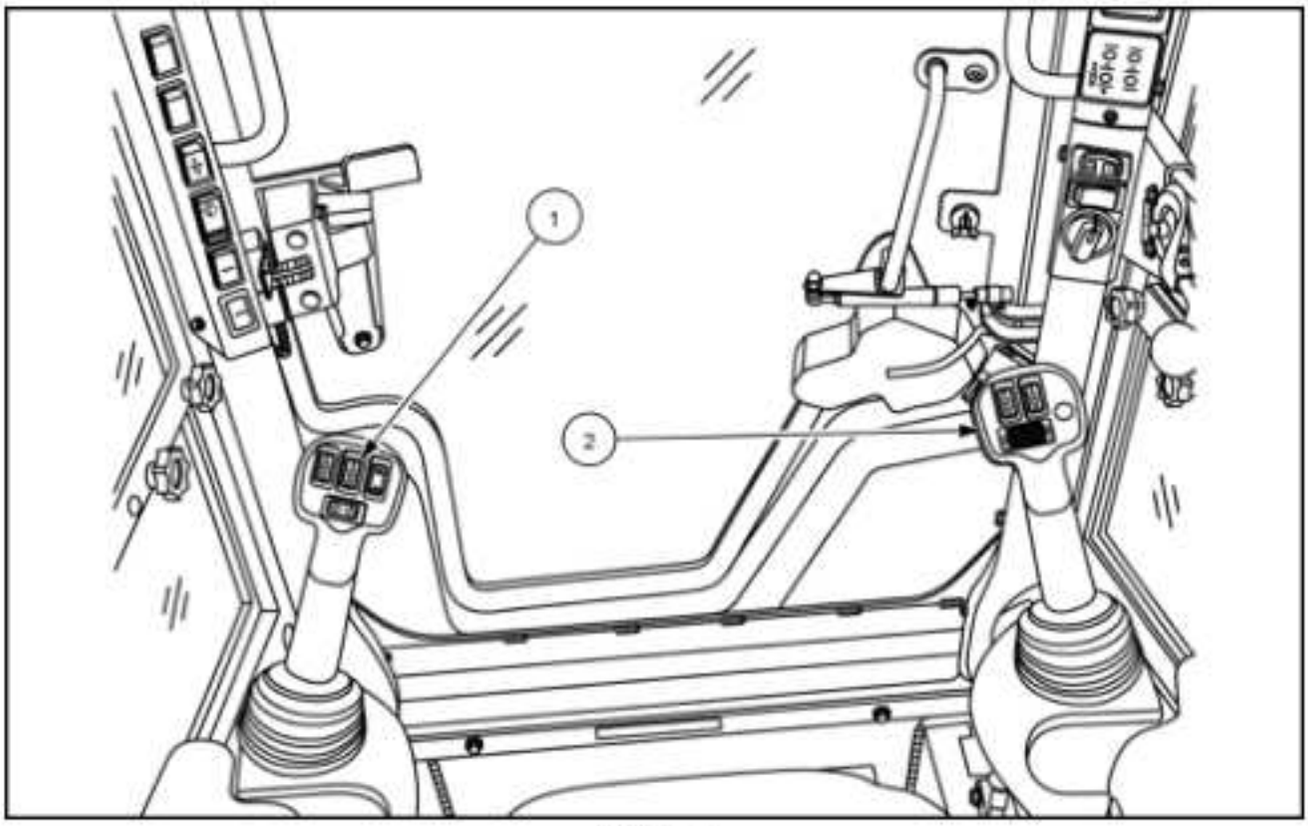
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H control pattern lift arm and bucket controls

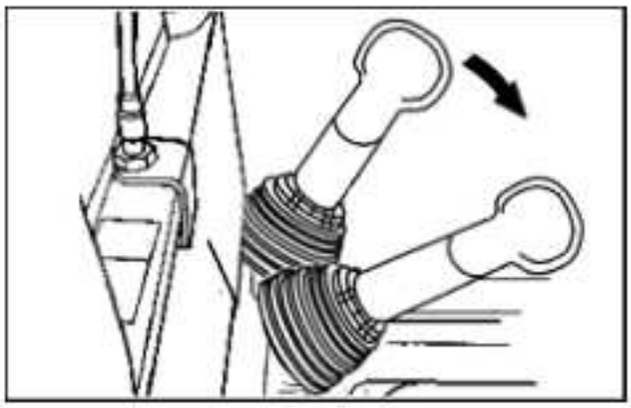
Lift arm raise/lower control



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Lift arm raise and lower control.

- The left-hand control lever **(1)** controls the lift arm. The lift arm will raise by pivoting the handle "UP" to the outside of the cab. Pivoting the handle "DOWN" to the inside of the cab will lower the lift arm.
- The lift arm spool is equipped with a detented "FLOAT" circuit if the operator wants the lift arm to float over changing ground contour.
  For the Electro-Hydraulic (EH) system, the float is engaged by pressing the float button on the right handle **(2)** and pushing the left handle **(1)** partially to the down stroke. If the operator has the left handle partially in the down stroke position and then presses the float button, the float will engage. To disengage the float, pull the left handle to the up stroke slightly.



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MAINTENANCE CHART

Maintenance Chart

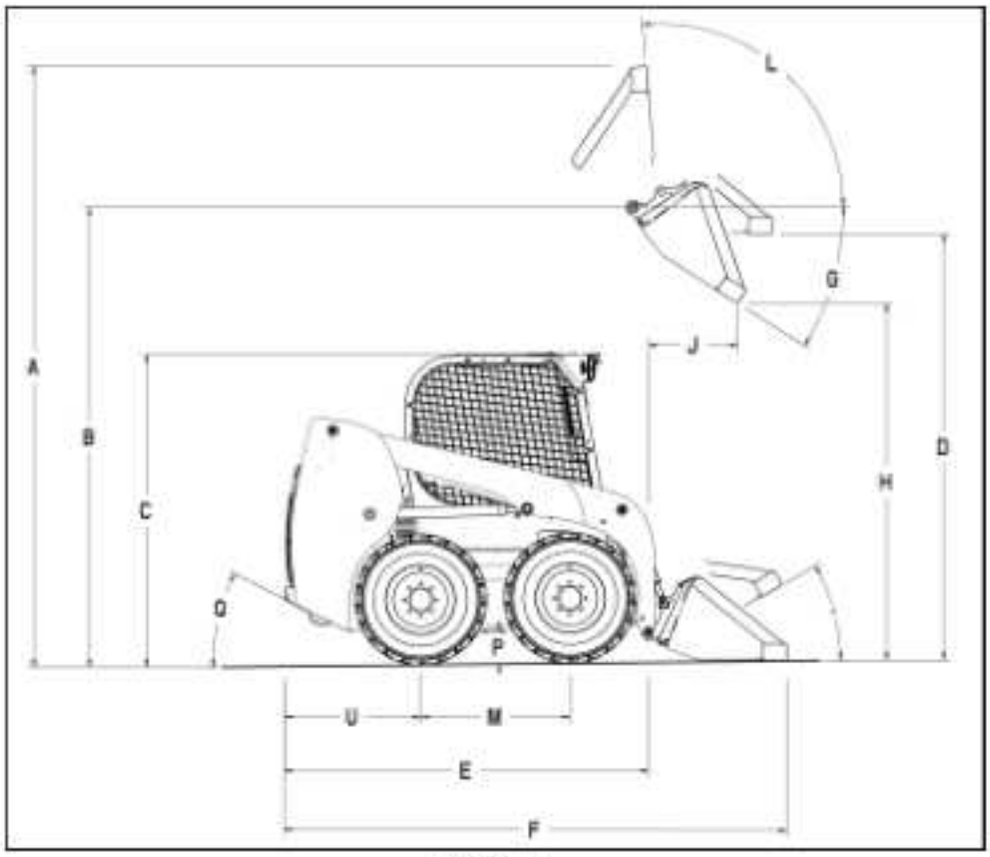
Interval	Page no.	Maintenance action	No. of pts.	Cleaning	Check	Grease	Replace	Drain fluid	Change fluid
INITIAL 10 HOURS	4-1	Wheel bolt and nut torque			X				
	7-39	Alternator and air conditioning compressor (if equipped) belt tension for models L213, L216, L218, and L220 only			X				
EVERY 10 HOURS OR DAILY	7-29	Clean tracks and components		X					
	7-31	Engine coolant level			X				
	7-33	Engine oil level			X				
	7-34	Lift arm, pivot points, coupler pins and cylinder pins				X			
	7-35	Hydraulic oil level			X				
	7-37	Seat belt, lap bar and seat interlock operation check			X				
INITIAL 50 HOURS	7-52	Final drive chain tank oil			X				
EVERY 50 HOURS	7-38	Cab intake filter			X				
	7-39	Alternator and air conditioning compressor (if equipped) belt tension for models L213, L216, L218, and L220 only			X				
	7-40	Roll Over Protective Structure (ROPS) mechanism and hardware check			X				
INITIAL 100 HOURS	7-55	Final drive oil (track models)							X
EVERY 250 HOURS	7-41	In-line fuel filter for models L213 and L216 only					X		
	7-42	Fuel prefilter						X	
	7-43	Drive chain tension check			X				
EVERY 500 HOURS	7-44	Engine oil and filter							X
	7-46	Fuel prefilter					X		
	7-48	Fuel filter					X		
	7-51	Hydraulic oil filter					X		
	7-52	Final drive chain tank oil			X				
	7-53	Air cleaner elements					X		
	7-55	Hardware - loose or damaged			X				
	7-55	Final drive oil (track models)							X
EVERY 1000 HOURS	7-56	Hydraulic fluid and filter							X
	7-56	Final drive chain tank oil							X
	7-58	Oil Mist Separator (OMS) filter for models L213, L216, L218, and L220					X		
EVERY 2000 HOURS	7-59	Engine coolant drain and flush							X
	7-62	Blowby re-circulation filter for models L221, L223, L225, L230, C227, C232, and C238 only					X		
EVERY 4000 HOURS	7-63	Diesel Particulate Filter (DPF)					X		
AS REQUIRED	7-63	Diesel Particulate Filter (DPF)		X					

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9 - SPECIFICATIONS

General specification

NOTE: *All specifications are given according to SAE standards or recommended practices where the specification applies.*



SMALL RADIAL FRAME UNITS (L213, L216)

LOCATION	COMPONENT	MEASUREMENT
A	Overall Operating Height (Fully Raised)	**3591 mm (141.4 in)**
B	Height to Hinge Pin (Fully Raised)	**2845 mm (112.0 in)**
C	Cab Height	**1919 mm (75.6 in)**
D	Highest Level Bucket Height	**2682 mm (105.6 in)**
E	Overall Length (No Attachment)	**2435 mm (95.9 in)**
F	Overall Length (With std Bucket)	**3028 mm (119.2 in)**
G	Dump Angle (Fully Raised)	**40.2 °**
H	Dump Height (Maximum Reach)	**2246 mm (88.4 in)**
J	Dump Reach (Fully Raised)	**469 mm (18.5 in)**
K	Maximum Rollback @ Ground	**26.1 °**
L	Maximum Rollback (Fully Raised)	**95.2 °**
M	Wheel Base	**941 mm (37.0 in)**
P	Ground Clearance (Belly Pan)	**178 mm (7 in)**
Q	Angle of Departure	**22 °**
U	Rear Axle to Bumper	**858 mm (33.8 in)**

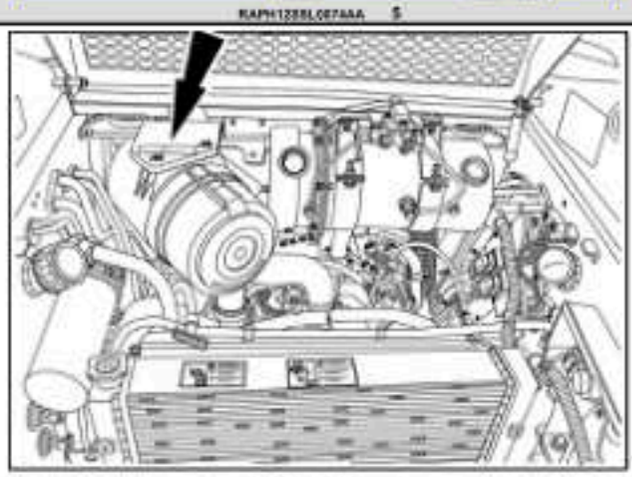
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WARNING
DO NOT use ether. Failure to comply could result in death or serious injury.

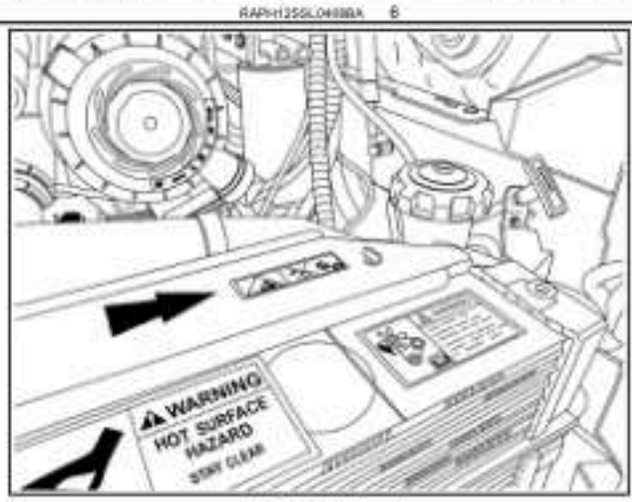
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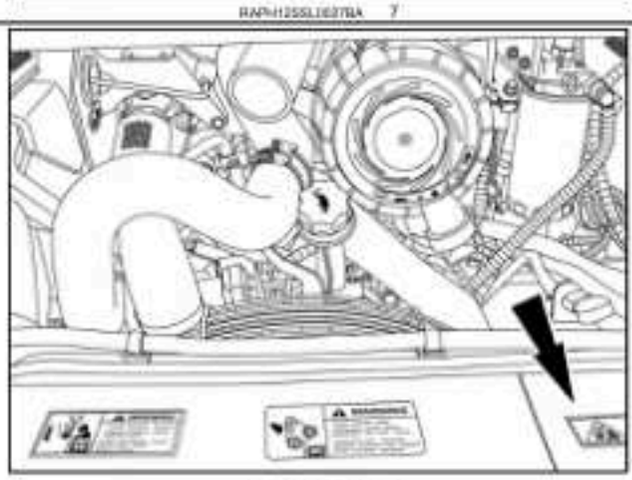
Models L213 and L216 only. Located on top of the air cleaner bracket.



Models L218, L220, L225, L230, C232, and C238. Located on shroud access plate.

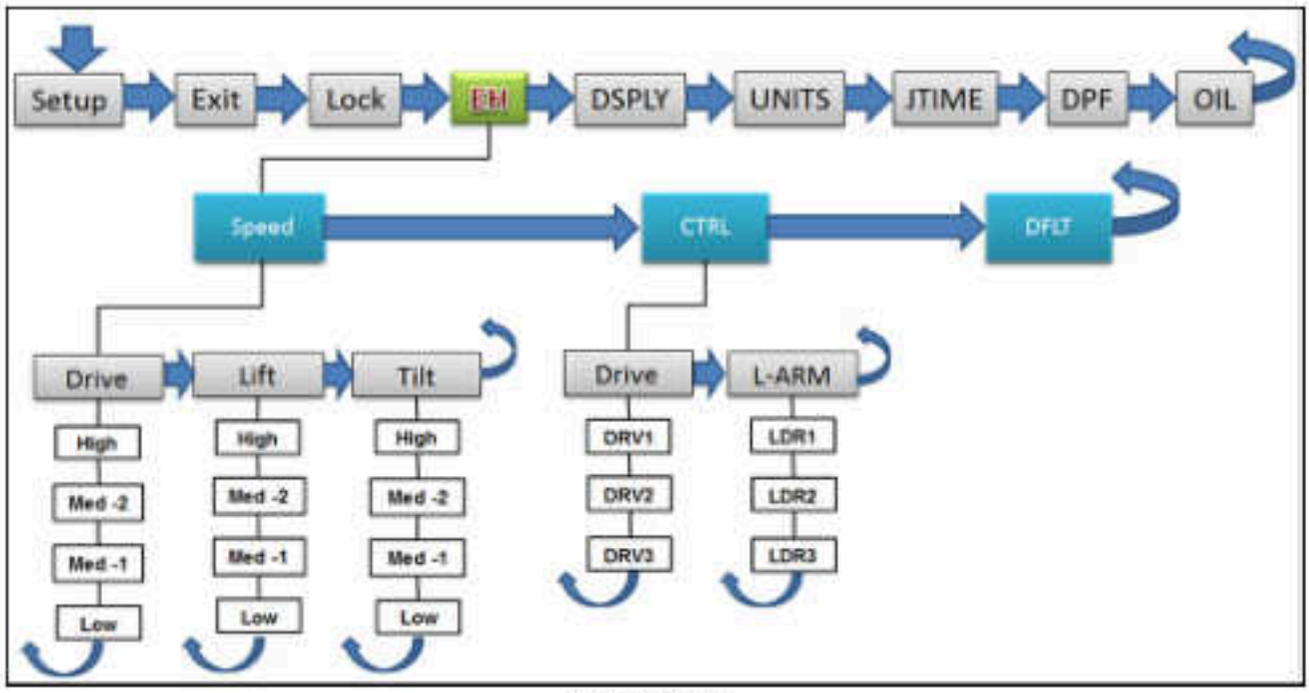


Models L221, L223, and C227. Located on top of the radiator.



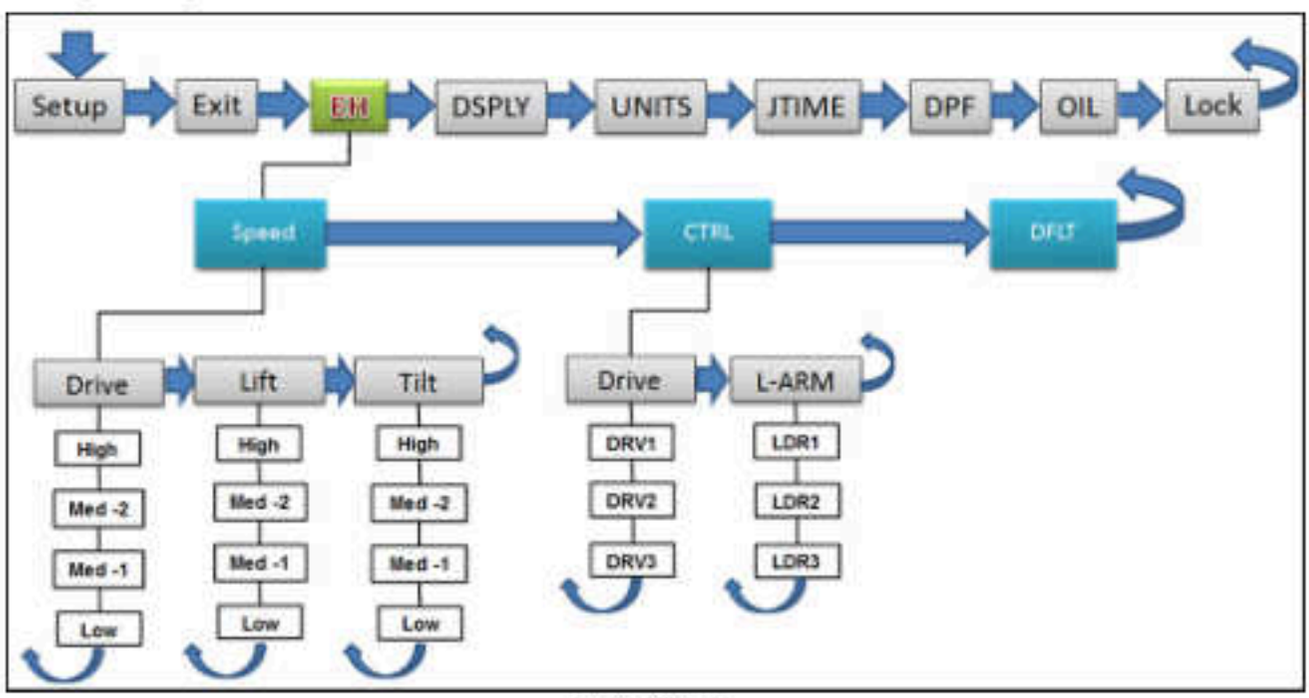
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The following figure is for machines built before August 2013



RAPH12SSL003EPA 5

The following figure is for machines built starting in August 2013



RAIL13SSL013EPA 6

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