SR130 SR210
SR160 SR240
SR175 SV185
SV280
Tier 4B (final)
Alpha Series Skid Steer Loader
PIN NGM418237 and above

TR270
TR310
Tier 4B (final)
Alpha Series Compact Track Loader
PIN NGM418237 and above

OPERATOR'S MANUAL

Part number 47948412
1st edition English
April 2016

CASE CONSTRUCTION

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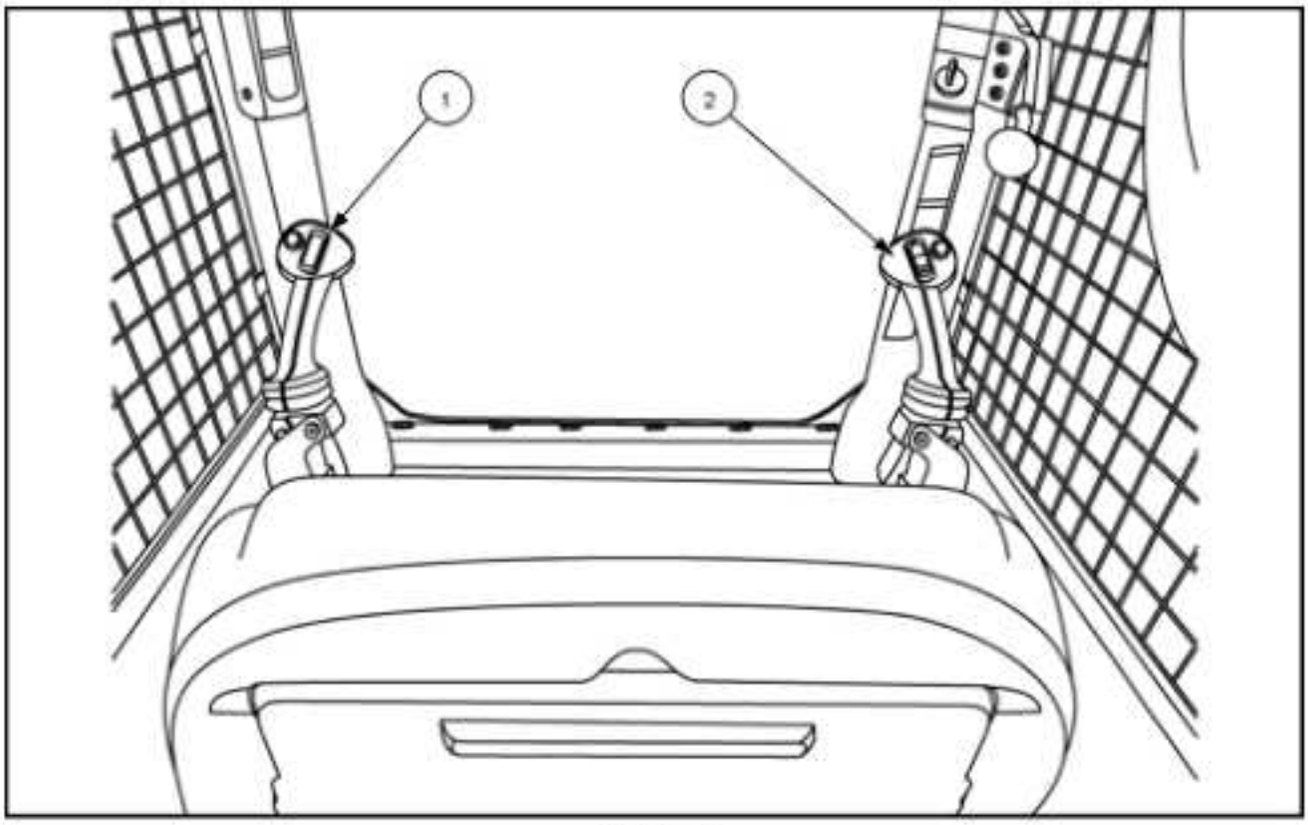
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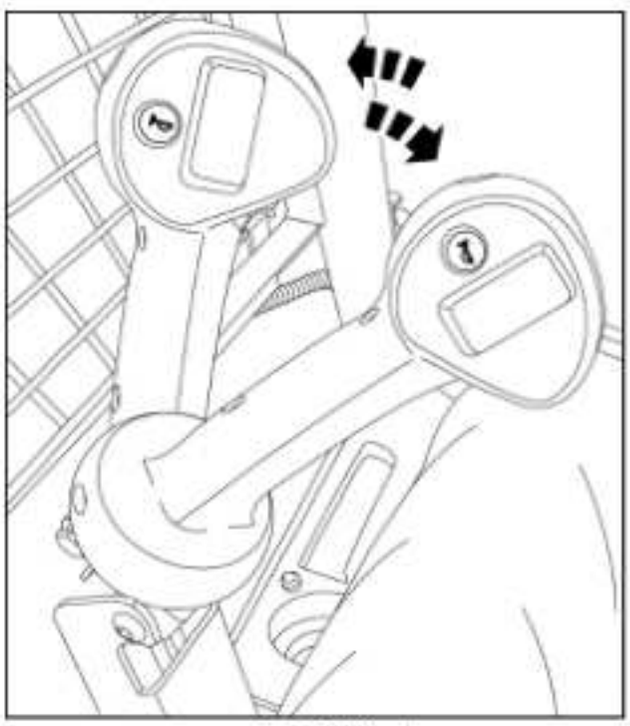
H control pattern lift arm and bucket controls

Lift arm raise/lower control



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 detent "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-hand control lever **(2)** and pushing the left-hand control lever **(1)** partially to the down stroke. If the operator has the left-hand control lever partially in the down stroke position and then presses the float button, the float will engage. To disengage the float, pull the left-hand control lever to the up stroke slightly.



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MAINTENANCE CHART

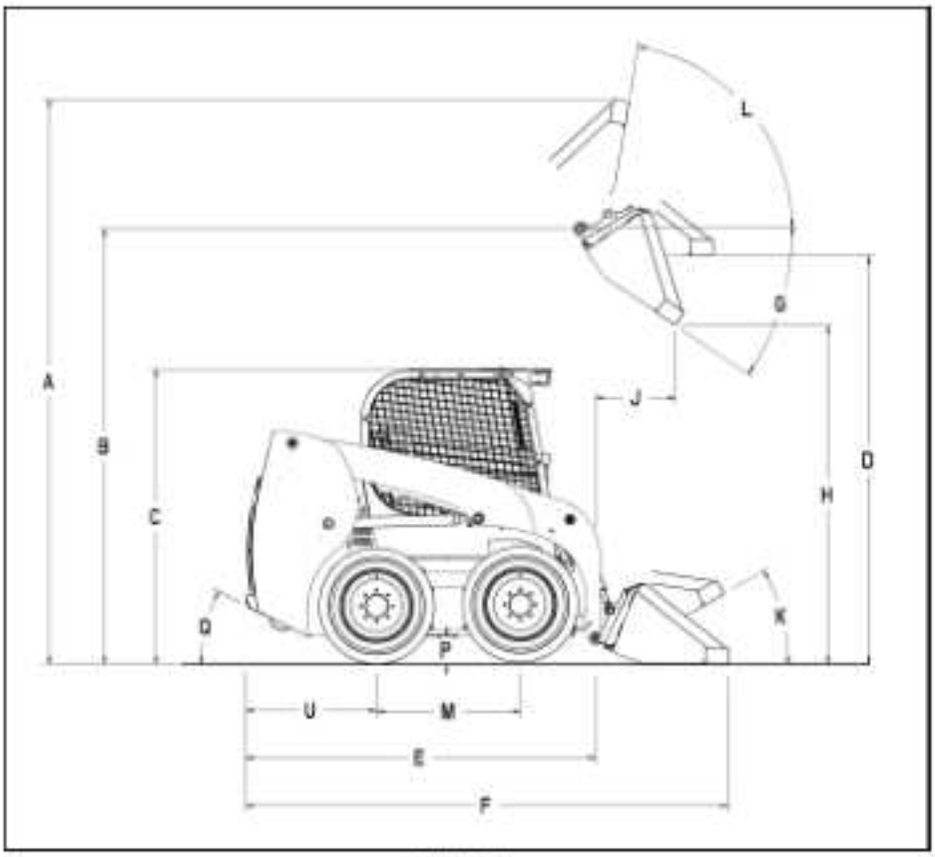
Maintenance chart

Maintenance action	Check	Cleaning	Grease	Drain fluid	Replace	Change fluid	Page no.
INITIAL 10 HOURS							
Track tension check and adjustment	x						7-32
Tire pressure and wheel hardware torque	x						7-33
Alternator and air conditioning compressor (if equipped) belt tension (models SR130, SR160, SR175, and SV185 only)	x						7-35
EVERY 10 HOURS OR DAILY							
Clean tracks and components		x					7-36
Engine and hydraulic coolers	x						7-37
Engine coolant level	x						7-38
Engine oil level	x						7-39
Loader arm pivot points, coupler pins, and cylinder pins			x				7-40
Hydraulic oil level	x						7-41
Loader arm and bucket hydraulic interlock	x						7-42
INITIAL 50 HOURS							
Roll Over Protective Structure (ROPS) mechanism and hardware check	x						7-43
EVERY 50 HOURS							
Cab intake filter	x						7-44
Seat restraints - Check	x						7-45
INITIAL 100 HOURS							
Final drive oil (track models)				x			7-46
EVERY 250 HOURS							
In-line fuel filter (models SR130 and SR160 only)					x		7-47
Fuel pre-filter						x	7-48
Drive chain tension check	x						7-49
Tire pressure and wheel hardware torque	x						7-33
EVERY 500 HOURS							
Engine oil and filter				x			7-52
Fuel pre-filter					x		7-54
Fuel filter					x		7-55
Hydraulic oil filter					x		7-57
Final drive chain tank oil	x						7-58
Air cleaner elements					x		7-61
Final drive oil (track models)				x			7-46
Roll Over Protective Structure (ROPS) mechanism and hardware check	x						7-43
EVERY 1000 HOURS							
Hydraulic fluid and filter						x	7-65
Final drive chain tank oil						x	7-69
Oil Mist Separator (OMS) filter (models SR130, SR160, SR175, and SV185 only)					x		7-72
EVERY 2000 HOURS							
Engine cooling system - Change fluid – SR130, SR160, SR175, and SV185 only				x			7-73
Engine cooling system - Change fluid – SR210, SR240, SV280, TR270, and TR310 only				x			7-75
Blow-by recirculation system (models SR210, SR240, SV280, TR270, and TR310 only)					x		7-77
EVERY 4000 HOURS							

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General specification

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



SMALL RADIAL FRAME WHEEL UNITS (SR130, SR160)

ITEM	COMPONENT	MEASUREMENT
A	Overall Operating Height (Fully Raised)	**3591 mm (141.4 in)**
B	Height to bucket hinge pin (Fully Raised)	**2845 mm (112 in)**
C	Top of Roll Over Protective Structure (ROPS)	**1919 mm (75.5 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 standard Bucket)	**3028.0 mm (119.2 in)**
G	Dump Angle (Fully Raised)	**40.2 °**
H	Dump Height (Maximum Reach) at full dump angle	**2246.0 mm (88.4 in)**
J	Dump Reach (Fully Raised) at full dump angle	**469 mm (18.5 in)**
K	Maximum Rollback at Ground	**26.1 °**
L	Maximum Rollback (Fully Raised)	**95.2 °**
M	Wheel Base	**941 mm (37 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)**
NOTE: *All measurements are based on machines with 10 x 16.5 tires and a* ***1524.0 mm (60.0 in)*** *Dirt & Foundry (DF) bucket.*		

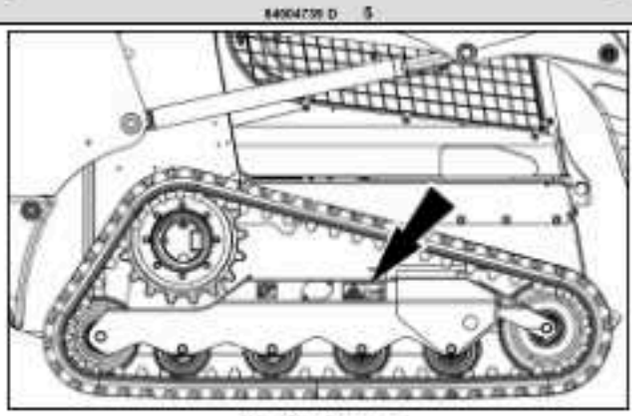
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CAUTION
Flying debris. Stay clear. Failure to comply could result in minor or moderate injury.

Quantity: 2
Part number: 84004739



Location:
On the track debris guard. One on each side of the machine.



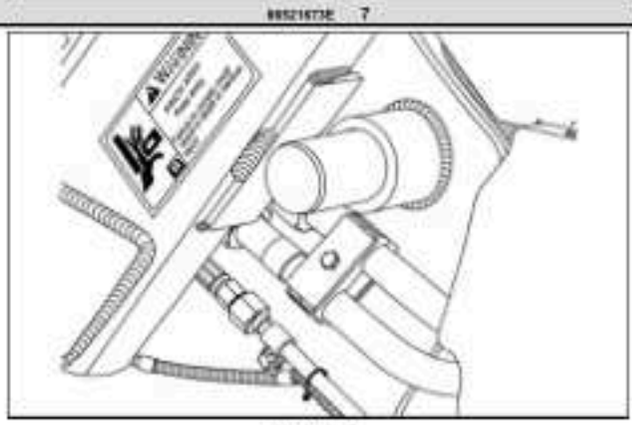
NOTE: *Only applicable to Compact Track Loaders (CTL) models TR270 and TR310.*

WARNING
PINCH AREA Keep away. Failure to comply could result in death or serious injury.

Quantity: 1
Part number:
English 86521673
Pictorial 86531262



Location:
On the left-hand side of the boom where it rests against the lift arm support pin.



NOTE: *Only applicable to models SV185 and SV280.*

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