SR130 SR200
SR150 SR220
SR175 SR250
SV185 SV250
SV300
Tier 3

Alpha Series Skid Steer Loader

SR130 PIN NBM424838 and above
SR150 PIN NBM426353 and above
SR175 PIN NBM427853 and above
SV185 PIN NBM429043 and above
SR200 PIN NBM429843 and above
SR220 PIN NBM431423 and above
SR250 PIN NBM433948 and above
SV250 PIN NBM435143 and above
SV300 PIN NBM436928 and above

TR270
TR320
TV380
Tier 3

Alpha Series Compact Track Loader

TR270 PIN NBM438663 and above
TR320 PIN NBM439948 and above
TV380 PIN NBM440878 and above

OPERATOR'S MANUAL

Part number 47571743
6th edition English
July 2013
Replaces part number 84601207

CASE CONSTRUCTION

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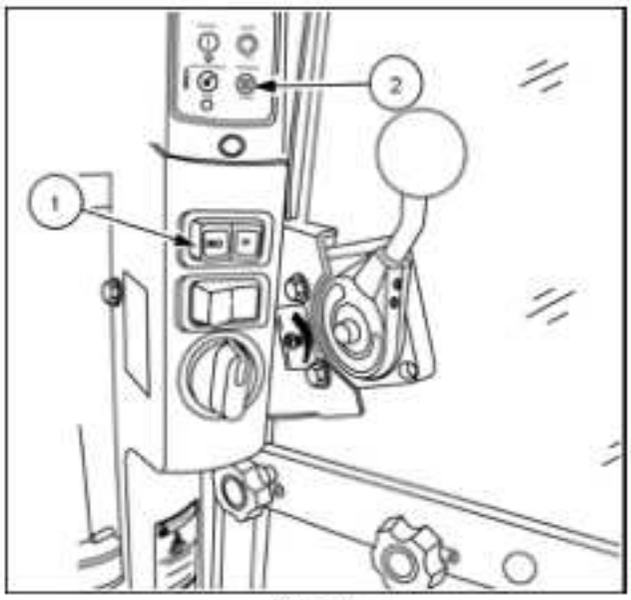
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ISO or H pattern control switch

On machines with **ISO or H** drive, switch **(1)** determines which drive system the machine is operating. **ISO** drive (single lever controls drive) or **H** drive (traditional 2 lever drive control).



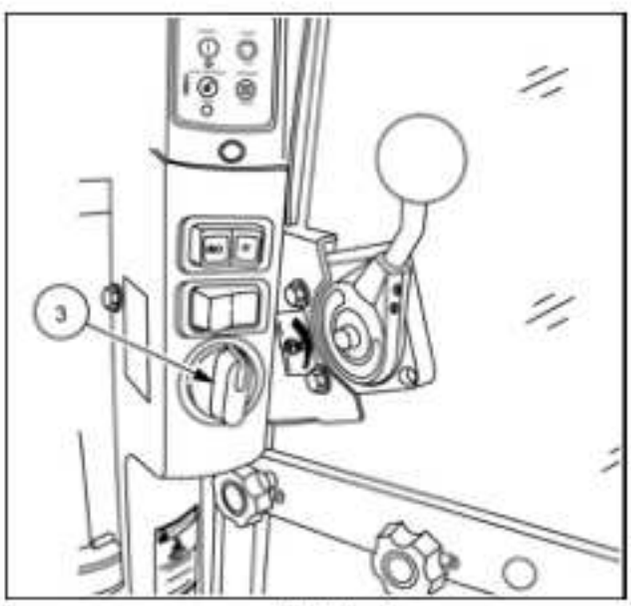
Switching from ISO to H pattern

1. Make sure the machine is parked on level ground with the engine running at idle, and lower the loader lift arms to the ground.
2. Press **OPERATE** button **(2)** to stop all hydraulic functions. Confirm that the **AUX** roller switch in right hand handle is in the neutral position.

   NOTE: *The **AUX** roller switch must be in neutral to change the pattern.*
3. Push and hold the **ISO - H** pattern select switch **(1)** to desired pattern for a few seconds, an audio alarm will sound letting you know that the pattern switch was successful.
4. Then confirm that the control pattern switch occurred by referencing the text display. Plus the switch will illuminate only on the selected side.
5. Then activate the hydraulic system by pressing the **OPERATE** button **(2)**.

Machine lights

If equipped, the cab exterior lights **(3)** are activated by a rotary switch located at the bottom portion of the right hand instrument panel. This rotary switch has four positions indicated by the symbol. The switch will remain in the position last selected. This switch is not functional without a key or **POWER** button engaged.



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Engine oil and filter

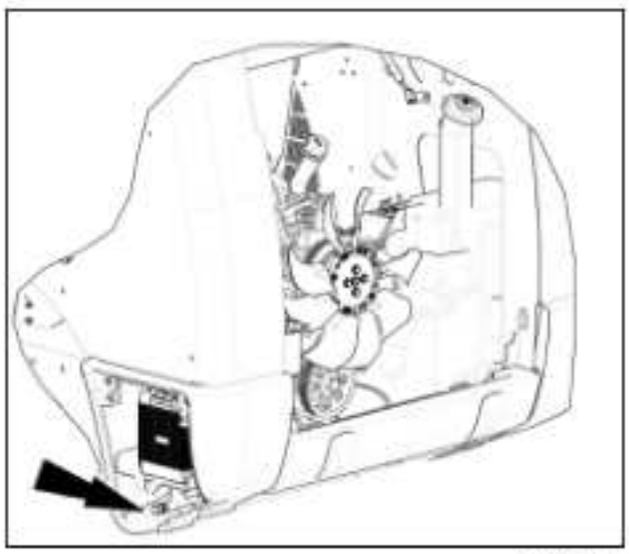
Change the engine oil and filter after the first 50 hours on a new machine or a rebuilt engine. Change engine oil and filter at 250 hr intervals for ISM 2.0L and 500 hour intervals for ISM 2.2L and F5C 3.2L, after the initial service.

Oil specification.....API CI-4, SAE 10W-30

Remote engine oil drain

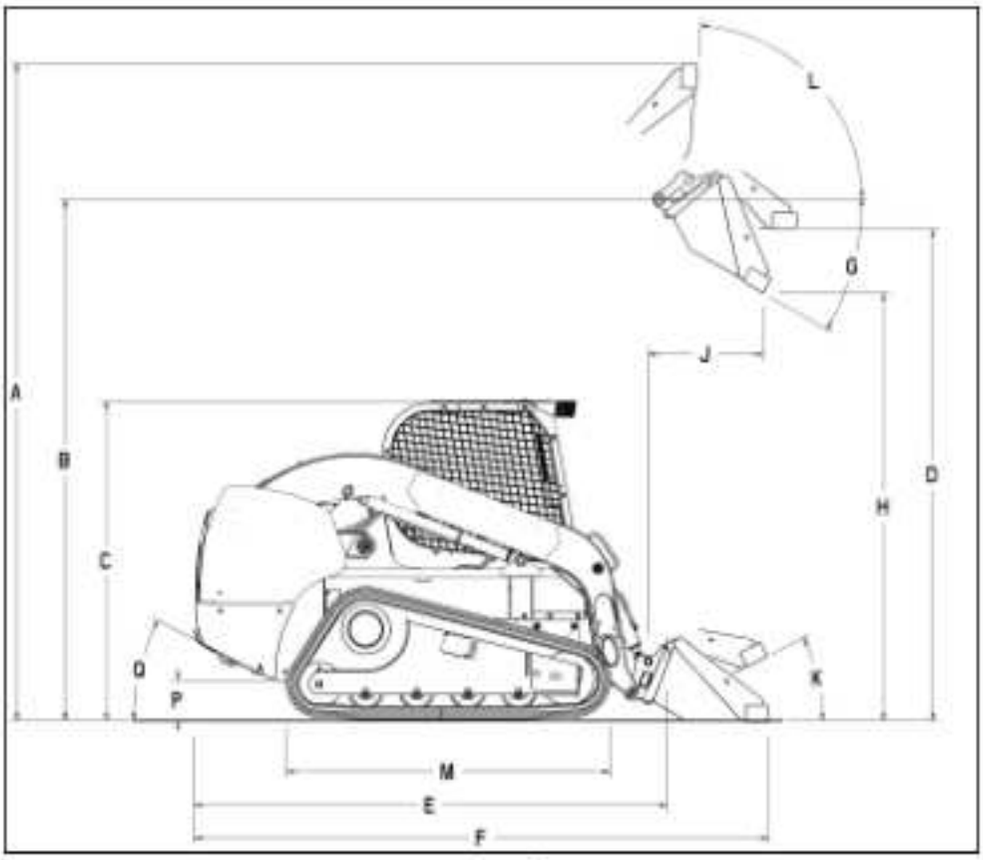
NOTE: *For more complete removal of foreign material, change the engine oil when the engine is still warm, but not hot from operation.*

1. Place the machine on firm, level ground, with brakes on and in transport position.
2. Remove the access cover at the rear lower left of the machine exposing the engine oil drain hose and remote filter for draining engine oil.
3. If applicable, use compressed air to clean the area the engine oil filter assembly and drain hose. If compressed air is not available, use a clean rag or cloth to wipe the area, clean to reduce the potential of dirt contamination into the engine.
4. Turn the old engine oil filter counter - clockwise to remove. Dispose of the filter properly. Use a clean cloth and wipe sealing surface of the old filter base to remove all dirt. Apply a thin layer of clean grease or oil to the gasket of the new filter. Put new oil into the engine oil filter. Then turn the new oil filter clockwise onto the base until the gasket makes contact with the base. Continue to tighten the filter with your hand for 1/2 to 3/4 turn.



NOTICE: *DO NOT use a filter strap wrench to install the oil filter. An oil filter strap wrench can cause a leak if the filter is dented or overstressed.*

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LARGE RADIAL FRAME TRACK UNITS (TR320)

LOCATION	COMPONENT	MEASUREMENT
A	Overall Operating Height (Fully Raised)	4009 mm (157.8 in)
B	Height to Hinge Pin (Fully Raised)	3215 mm (126.5 in)
C	Cab Height	2043 mm (80.4 in)
D	Highest Level Bucket Height	3038 mm (119.6 in)
E	Overall Length (No Attachment)	2981 mm (117.4 in)
F	Overall Length (With std Bucket)	3611 mm (142.2 in)
G	Dump Angle (Fully Raised)	38.3 °
H	Dump Height (Maximum Reach)	2598 mm (102.2 in)
J	Dump Reach (Fully Raised)	540 mm (21.2 in)
K	Maximum Rollback @ Ground	29.7 °
L	Maximum Rollback (Fully Raised)	99.7 °
M	Wheel Base	1602 mm (63.1 in)
P	Ground Clearance (Belly Pan)	243 mm (9.5 in)
Q	Angle of Departure	32 °
U	Rear Axle to Bumper	N/A

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Machine safety sign information

⚠ WARNING

Avoid injury!
Make sure safety signs are legible. Clean safety signs regularly. Replace all damaged, missing, painted over, or illegible safety signs. See your dealer for replacement safety signs. If a safety sign is on a part that is replaced, make sure the new part has a safety sign.
Failure to comply could result in death or serious injury.

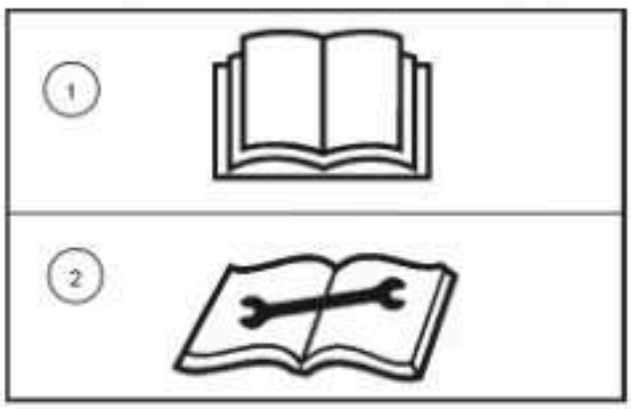
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The following safety signs are placed on your machine as a guide for your safety and for those working with you. Walk around the machine and note the content and location of these safety signs before operating your machine.

Keep safety signs clean and legible. Clean safety signs with a soft cloth, water, and a gentle detergent. Do not use solvent, gasoline, or other harsh chemicals. Solvents, gasoline, and other harsh chemicals may damage or remove safety signs.

Replace all safety signs that are damaged, missing, painted over, or illegible. If a safety sign is on a part that is replaced, make sure the safety sign is installed on the new part. See your dealer for replacement safety signs.

Read operators manual symbol.
Safety signs that display the "Read Operator's Manual" symbol **(1)** are intended to direct the operator to the operator's manual for further information regarding maintenance, adjustments, or procedures for particular areas of the machine. When a safety sign displays this symbol, refer to the appropriate page of the operator's manual.
Read service manual symbol.
When a decal displays the "read service manual" symbol **(2)**, refer to the service manual for specific information such as service, operation, maintenance or adjustment. See an authorized dealer for a service manual.
One or both of these symbols may appear on a decal relating to safety, machine operation or service. To the right is a sample safety sign that directs the machine operator or service technician to the operators manual **(1)** for additional information concerning this procedure.



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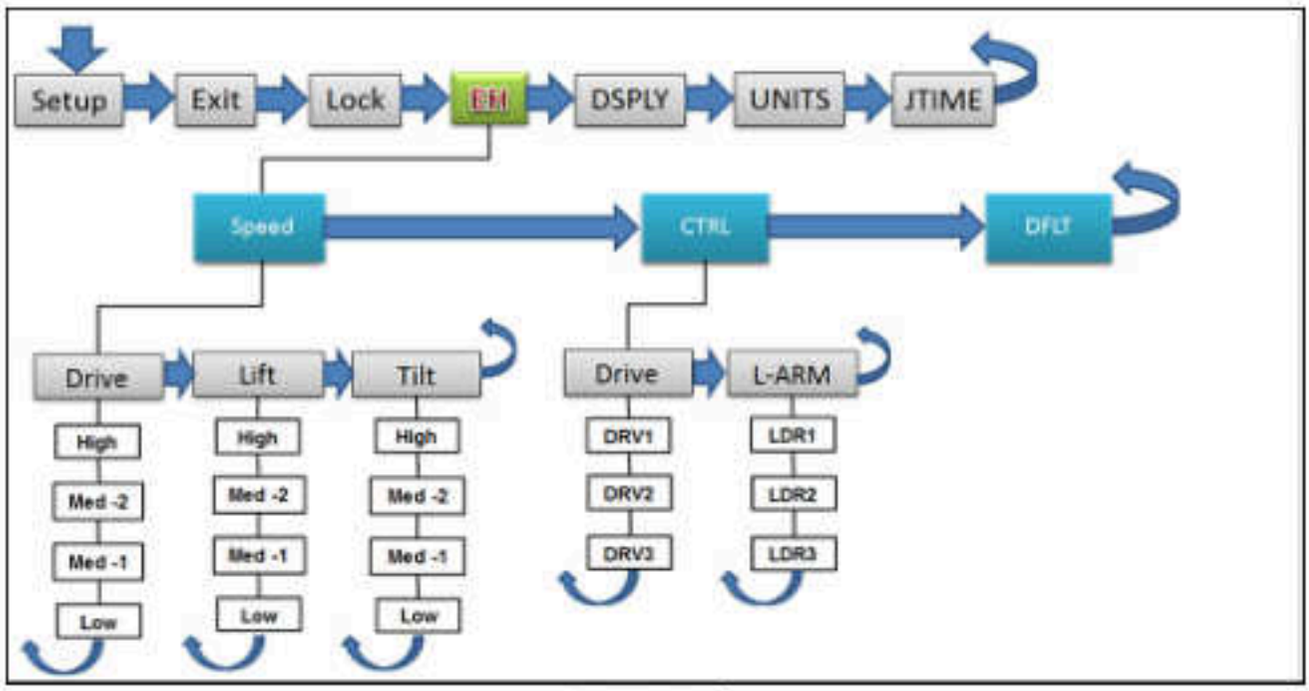
ISO two-panel pictorial symbol safety signs.
The first panel indicates the nature of the hazard. The second panel indicates the appropriate avoidance of the hazard. The background color is YELLOW. Prohibition symbols such as STOP, if used are RED.



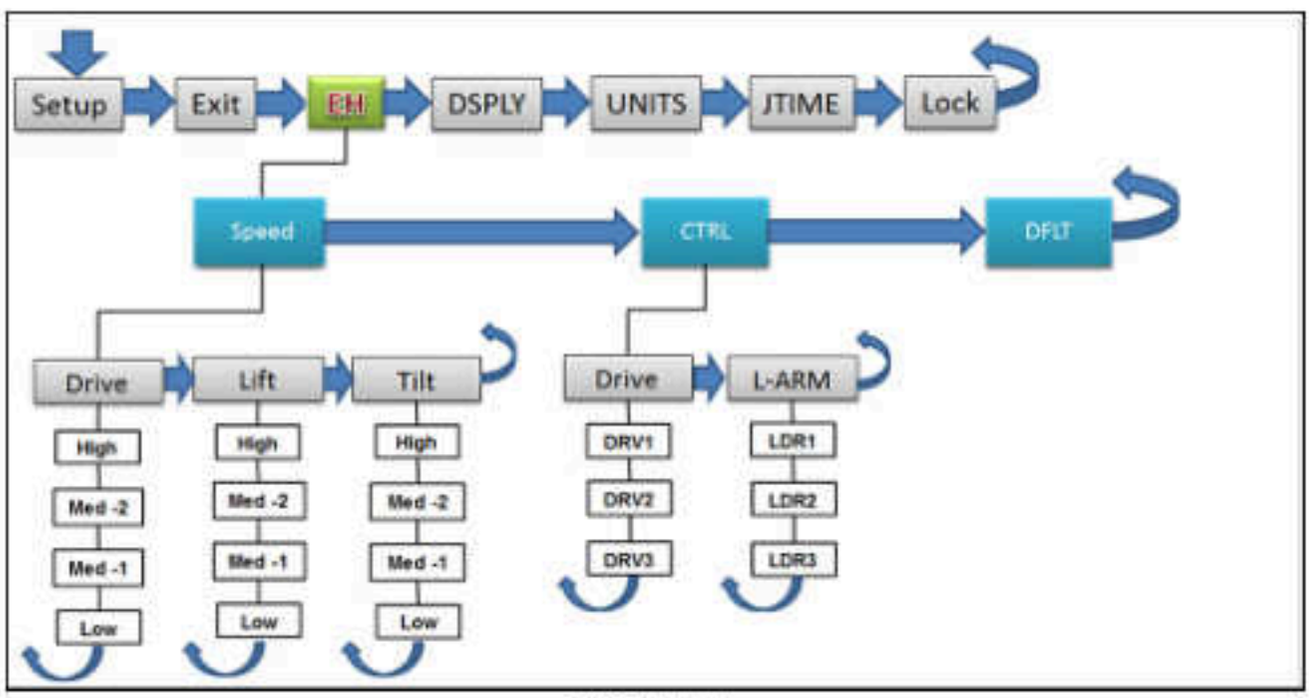
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The following figure is for machines built before August 2013



The following figure is for machines built from August 2013



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