NEW HOLLAND

SKID STEER LOADER
COMPACT TRACK LOADER

L180
L185
C185
L190
C190

OPERATOR'S MANUAL

87538534 NA
Replaces 6-82032 NA

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NEW HOLLAND

www.newhollandconstruction.com

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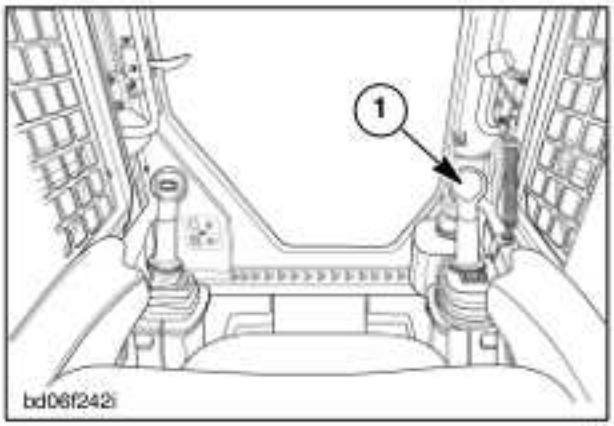
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PILOT CONTROLS - BOOM AND BUCKET CONTROL

The boom and bucket are controlled by the Right Pilot Control Lever, 1.



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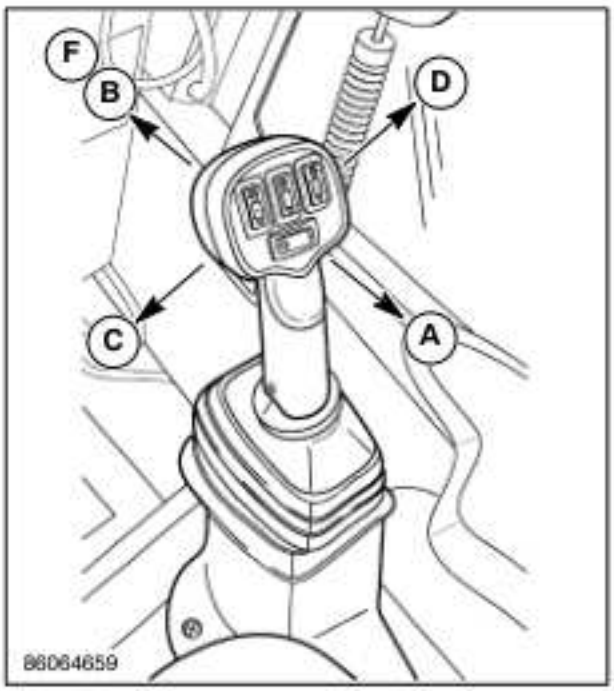
Boom Raise and Lower Control:

A. The boom will raise UP by pulling back on the **Right Pilot Control Lever.**

B. The boom will lower DOWN when the lever is pushed forward.

The boom spool is equipped with a detented FLOAT circuit. In this detented position the boom will float over changing ground contour and the lever will remain in this position until pulled back toward neutral.

F. To place the boom in Float, push the control lever all the way forward until a slight jump is felt. In this position the lever will remain until pulled back and out of the detent.



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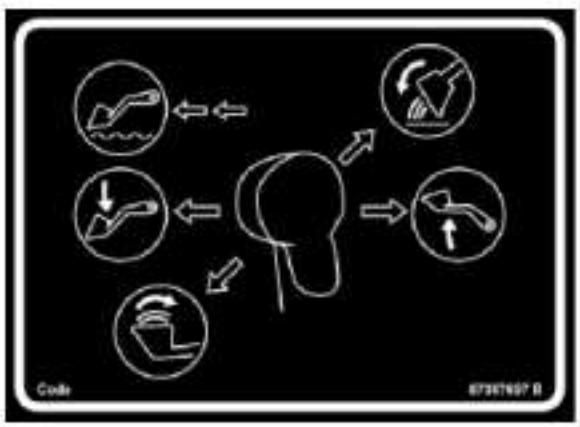
Bucket Dump and Curl Control:

The bucket is also controlled by the Right Pilot Control Lever.

C. The bucket will roll back (curl) when the Right Pilot Control Lever is pivoted inward.

D. Pivoting the lever toward the outside of the cab will dump the bucket.

NOTE: *There is no detent or float position on the bucket dump and curl circuit.*



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HYDRAULIC OIL FILTER REPLACEMENT

The Hydraulic Oil Filter should be replaced every 500 hours or if the warning lamp illuminates.

IMPORTANT: *Replace the hydraulic oil filter after 20 hours of use if a major hydraulic component has been replaced.*

Specification . API SH/CH-4 SAE 10W-30 Engine Oil

⚠ WARNING ⚠

BURN HAZARD: Do not service the hydraulic system until the temperature of the oil is below 49° C (120° F).

1. Place the machine on firm, level ground.
2. Remove any attachments and place the loader arms in the up position, **ON** the lock pins.
3. Clean the area around the filler cap, 1, and hydraulic filter, 2, with cleaning solvent.
4. To remove the filter, turn counterclockwise. Dispose of the filter properly.

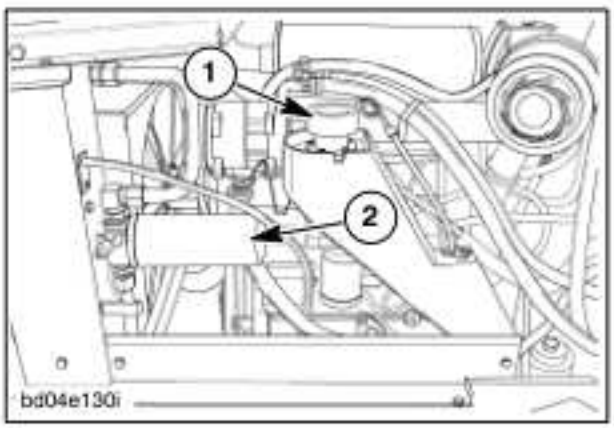
⚠ WARNING ⚠

The hydraulic oil filter will be under pressure when the oil is at operating temperature. Allow hydraulic oil to cool down below 49° C (120° F) before removing the filter. If the oil filter is loosened under pressure, serious injury may occur.

5. Apply a thin layer of clean grease or oil on the O-ring of the new filter.
6. Install the filter. Hand tighten the filter 1/2 turn after the filter O-ring touches the filter head.

Do not use a strap wrench to tighten filters. Hand tighten only.

7. Start the engine and run at low idle speed. After two minutes, stop the engine, wait for 2 or 3 minutes, and check the hydraulic oil reservoir oil level. Add oil if necessary.



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SECTION 7
SPECIFICATIONS

	L180	L185/C185	L190/C190
Engine			
Engine Model	New Holland 334M2	New Holland 334TM2	New Holland 445M2
Aspiration	Natural	Turbocharged	Natural
Number of cylinders	3	3	4
Firing Order	1, 3, 2	1, 3, 2	1, 3, 4, 2
Fuel Type	#2 Diesel	#2 Diesel	#2 Diesel
Bore and Stroke	104 mm x 132 mm (4.10 in x 5.20 in)	104 mm x 132 mm (4.10 in x 5.20 in)	104 mm x 132 mm (4.10 in x 5.20 in)
Displacement	3.36 L (204 cu-in)	3.36 L (204 cu-in)	4.5 L (272 cu-in)
Compression Ratio	17.5 to 1	17.5 to 1	17.5 to 1
Horsepower, Gross Bare Engine	47 kW (63 hp)	58 kW (78 hp)	60 kW (80 hp)
Peak Torque	242 N·m (179 ft-lbs)	319 N·m (228 ft-lbs)	324 N·m (236 ft-lbs)
Engine Speed, High idle, no load	2500 ± 50 rpm	2500 ± 50 rpm	2480 ± 50 rpm
Engine Speed, Rated full load	2300 rpm	2300 rpm	2300 rpm
Engine Speed, Low idle	1300 ± 50 rpm	1300 ± 25 rpm	1050 ± 50 rpm
Engine Gradeability (Intermittent Duty)	35 degrees	35 degrees	35 degrees
Air Cleaner	Dual stage, dry element filter	Dual stage, dry element filter	Dual stage, dry element filter
Engine crankcase capacity w/filter	8 L (2.13 gal)	8 L (2.13 gal)	14.5 L (3.2 gal)
Hydraulic System			
Hydraulic Pump, type	Gear	Gear	Gear
Hydraulic Pump, flowrate, std	73 L/min (19.3 gpm)	73 L/min (19.3 gpm)	82.9 L/min (21.9 gpm)
Hydraulic Pump, flowrate, Optional High Flow	131.3 L/min (34.7 gpm)	131.3 L/min (34.7 gpm)	141.2 L/min (37.3 gpm)
Relief Pressure Setting	210 bar (3050 psi)	210 bar (3050 psi)	210 bar (3050 psi)
Control valve	Three spool, open center	Three spool, open center	Three spool, open center
Filtration	6 micron, spin-on filter	6 micron, spin-on filter	6 micron, spin-on filter
Oil Reservoir	18.9 L (5 gal)	18.9 L (5 gal)	18.9 L (5 gal)

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WARNING: Do not attempt to move the boom while jump starting the machine. The boom moves up and down in the area of the battery and jump start posts, causing a crushing hazard. Failure to comply could result in death or serious injury.

Part #9801239



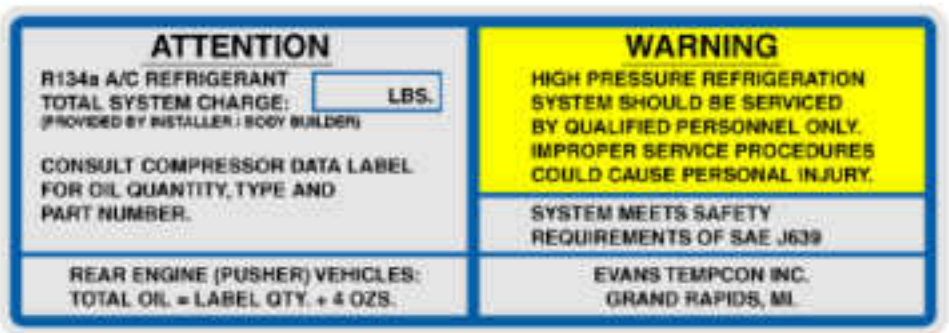
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DANGER: Always activate the mechanical boom lock before exiting a machine with the boom up and/or when servicing or repairing the unit with the boom up. Failure to do so could result in serious injury or death.

Part #86521684 – L180/L185/L190
Part #87459420 – C185/C190



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WARNING: Refrigerants such as R134a have potentially dangerous physical and chemical properties. All refrigerants are stored as a liquid under high pressure, and all of them can be harmful or fatal if treated improperly. Improper handling can lead to physical injury, frostbite, blindness, possible poisoning and/or death by asphyxiation or cardiac arrest. R134a can be flammable under certain conditions.

Part #86639409 (installed if unit is equipped with optional air conditioning system.)

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