821G
921G
Tier 4B (Final)
Wheel Loader

OPERATOR'S MANUAL

Part number 47888685
1st edition English
November 2016

CASE CONSTRUCTION

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Initial 100 hours

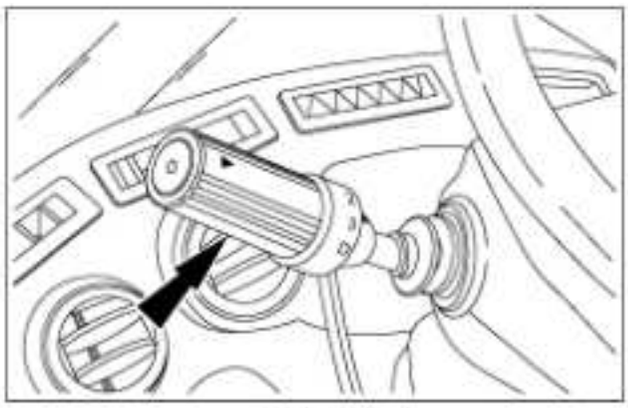
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Transmission control lever

Use the transmission control lever to shift the transmission gears from first through fourth gear. Turn the transmission control lever away from you to select a higher gear. Turn the lever toward you to select a lower gear. Also use this control lever to put the transmission in FORWARD, NEUTRAL, and REVERSE (F-N-R):

- Move the control lever away from you for FORWARD.
- The center position of the control lever is NEUTRAL.
- Move the control lever toward you for REVERSE.



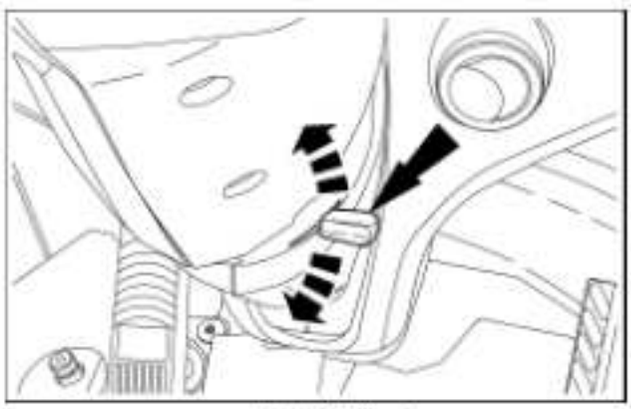
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All the following steps are required in order to use the transmission control lever:

1. Service brake pressure must be at operating pressure.
2. Transmission control lever must be in NEUTRAL upon startup.
3. Push the parking brake button to release the parking brake switch.
4. Place the transmission control lever in either FORWARD or REVERSE to move the machine.

Steering wheel tilt control

The steering wheel tilt control allows the operator to adjust the steering wheel to multiple positions. Push or pull back the handle, and adjust the steering wheel to the correct and most comfortable angle. Release the handle to hold in that position. Tilt the steering wheel completely up when leaving the machine. Always adjust the steering wheel to the correct position before starting the engine.



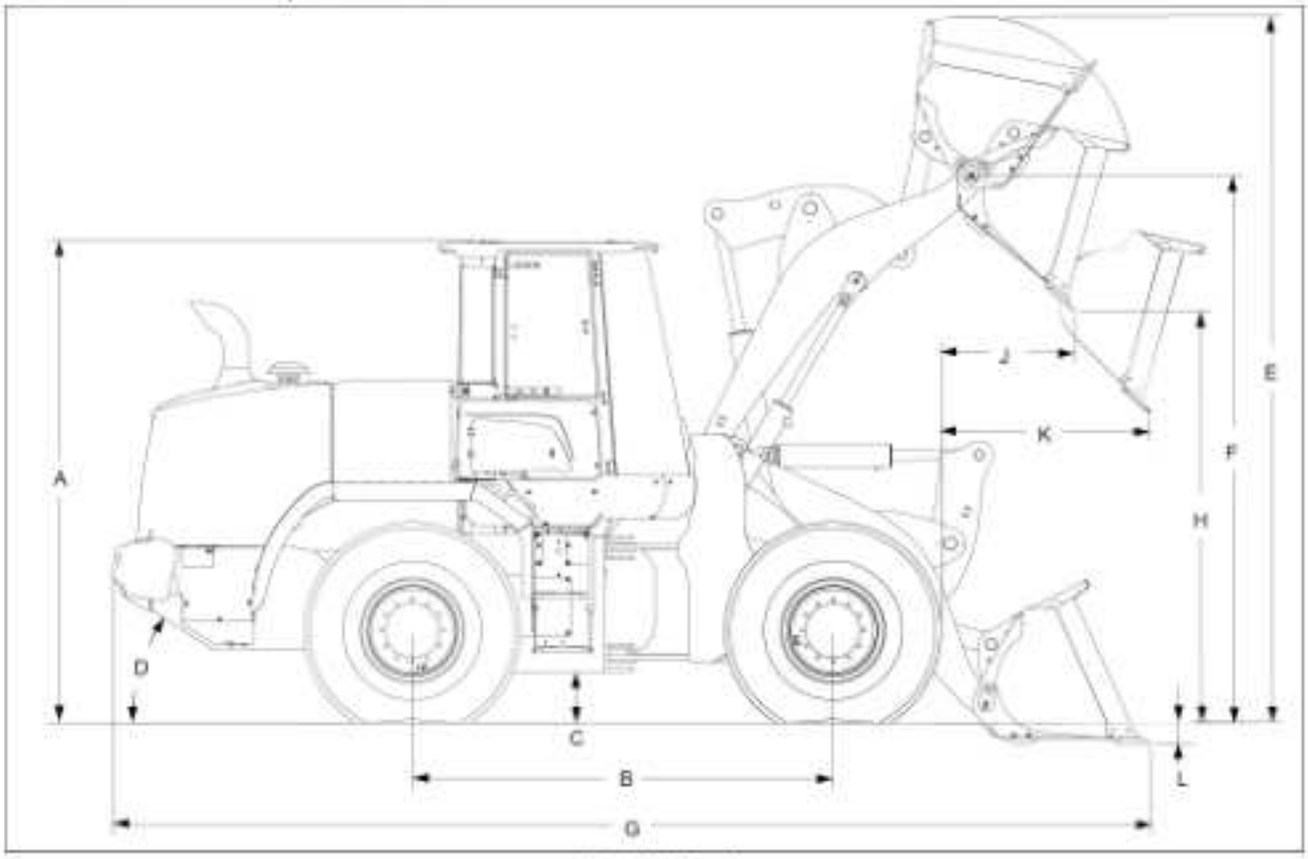
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Maintenance action	Check	Grease	Cleaning	Change fluid	Replace	Tire inflating	Drain fluid	Page no.
Every 2000 hours								
Hydraulic oil and filters - Change				x				7-97
Engine air filters - Replace					x			7-99
Frame and cab - Lubricate		x						7-101
Engine valve clearance - Check and adjust	x							7-102
Every 4000 hours								
Selective Catalytic Reduction System (SCR) Supply Module filter - Replace					x			7-103
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As required								
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821G Loader - Lift Arms Specifications



821G Z-Bar Specifications - 2.7 m³ (3.5 yd³) Blade / 2.4 m³ (3.2 yd³) Teeth - Pin On

	Bucket with Bolt-on Edge	Bucket with Teeth
ISO Bucket Specifications		
Capacity (heaped)	**2.68 m³ (3.50 yd³)**	**2.45 m³ (3.20 yd³)**
Bucket width (maximum outer)	**3030 mm (119.3 in)**	**3027 mm (119.2 in)**
Dimensional Outline Specifications		
A (top of cab height)	**3460 mm (136.2 in)**	**3460 mm (136.2 in)**
B (wheelbase)	**3340 mm (131.5 in)**	**3340 mm (131.5 in)**
C (ground clearance)	**431 mm (17.0 in)**	**431 mm (17.0 in)**
D (rear angle of departure)	**29 °**	**29 °**
Overall width w/o bucket	**2829 mm (111.4 in)**	**2829 mm (111.4 in)**
Centerline tread width	**2230 mm (87.8 in)**	**2230 mm (87.8 in)**
Turning radius (outside of tires)	**6003 mm (236.3 in)**	**6003 mm (236.3 in)**
Turning angle from center	**40 °**	**40 °**
Total turning angle	**80 °**	**80 °**
E (fully raised with spillguard)	**5322 mm (209.5 in)**	**5322 mm (209.5 in)**
F (hinge pin - fully raised)	**4120 mm (162.2 in)**	**4120 mm (162.2 in)**
G (overall - bucket level on ground)	**7834 mm (308.4 in)**	**7983 mm (314.3 in)**
H (dump - fully raised, **45 °** dump)	**3094 mm (121.8 in)**	**2998 mm (118.0 in)**
J (reach - fully raised, **45 °** dump)	**989 mm (38.9 in)**	**1101 mm (43.4 in)**
K (reach - **2.13 m (7.0 ft)**, **45 °** dump)	**1633 mm (64.3 in)**	**1704 mm (67.1 in)**
L (dig depth)	**63 mm (2.5 in)**	**64 mm (2.5 in)**
ISO Load Specifications		
Operating Weight (without load)	**10818 kg (39723 lb)**	**17955 kg (39584 lb)**
Operating load	**5739 kg (12653 lb)**	**5832 kg (12857 lb)**
Tipping load		
Machine straight	**14165 kg (31229 lb)**	**14378 kg (31698 lb)**
40 ° turn	**11478 kg (25305 lb)**	**11664 kg (25715 lb)**

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