Service Manual

Compact loaders

1101c/1101cp



Machine models	**1101c/cp**
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Language	**English**
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2.13 Dimensions

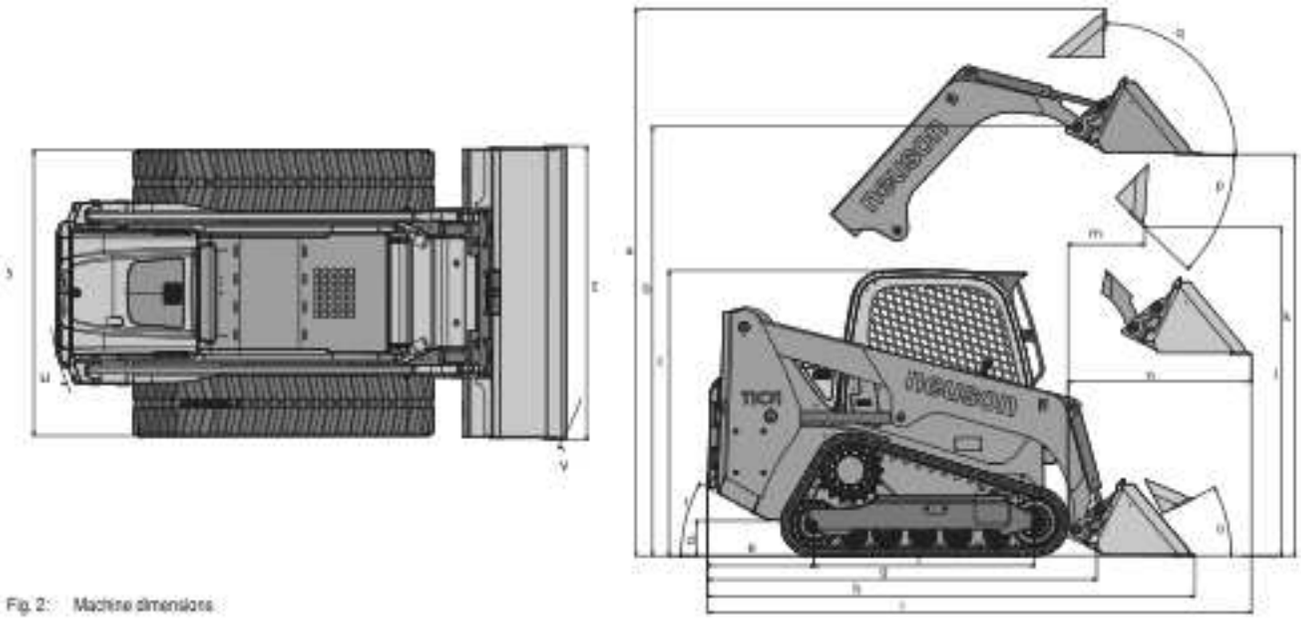


Fig. 2: Machine dimensions

	Main data	Model 1101 (in)
a	Maximum height	3945 mm (155.3")
b	Height below bucket joint	3120 mm (122.8")
c	Cab height	2065 mm (81.3")
d	Ground clearance	250 mm (9.84")
e	Rear projection (rear axle onwards)	810 mm (31.9")
f	Wheelbase	1150 mm (45.3")
g	Overall length without attachment	2860 mm (112.6")
H	Overall length with standard bucket	3535 mm (139.2")
I	Maximum length of machine	3925 mm (154.5")
K	Topmost bucket position	2890 mm (113.8")
L	Maximum dump height	2380 mm (93.7")
m	Reach	625 mm (24.6")
n	Maximum reach (horizontal loader unit position)	1370 mm (53.9")
o	Dump-in angle	31°
P	Dump-out angle	42°
q	Dump-in angle	86°
R	Departure angle	29°
s	Machine width (with standard tracks b = 450 mm)	1980 mm (78")
	Machine width (with narrow tracks b = 320 mm)	1850 mm (72.8")
t	Bucket width	2030 mm (79.9")
u	Rear turning radius	1540 mm (60.6")
v	Front turning radius	2250 mm (88.6")

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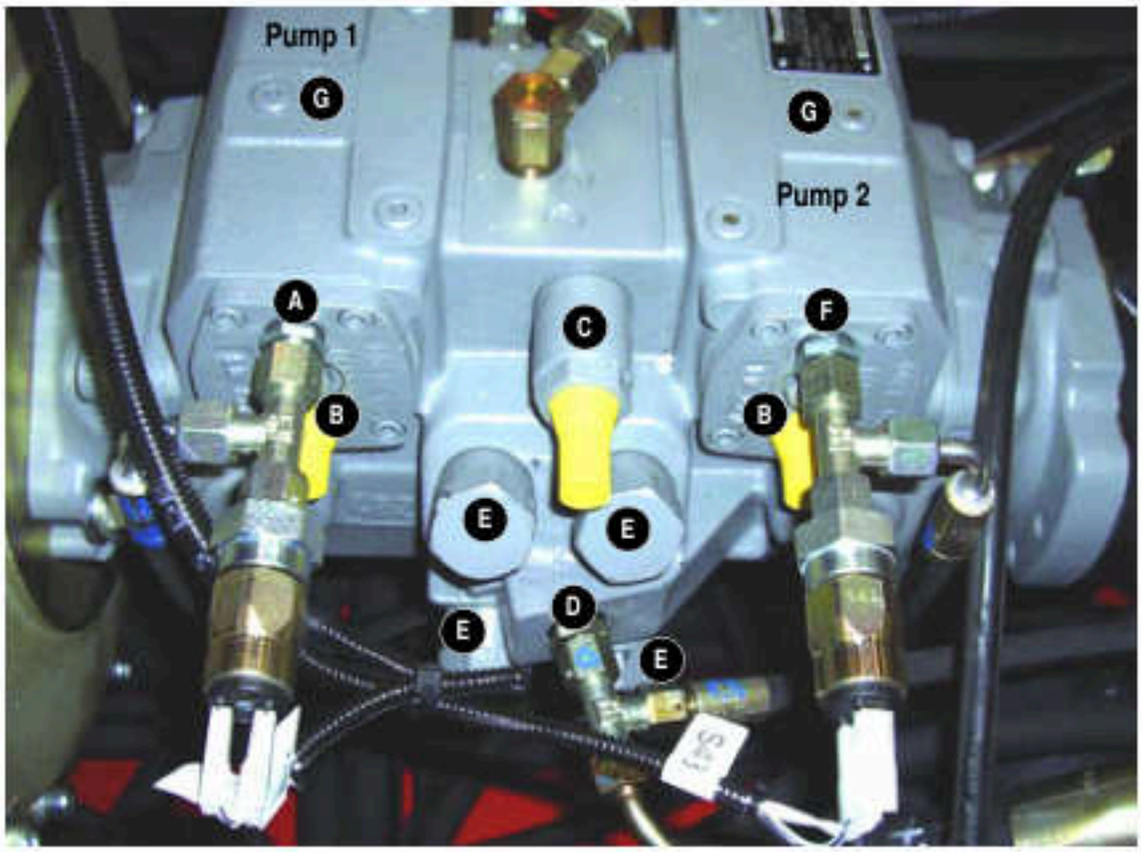
Engine trouble

Problem	Possible causes
Engine does not start or is not easy to start	Wrong SAE viscosity/oil grade of engine lubrication oil
	Fuel grade does not comply with specifications
	Defective or flat battery
	Loose or oxidised cable connections to starter
	Defective starter, or pinion does not engage
	Wrong valve clearance
	Defective fuel injector
	Defective starting relay
	Defective preheating system
	Defective solenoid switch
	Battery master switch switched off
	Dirty fuel filter
	Very dirty air filter/defective exhaust gas turbocharger
	Cutoff solenoid does not attract
	Cutoff solenoid without current
	High pressure created immediately in the hydraulic system
	Air in fuel system
Engine starts, but does not run smoothly or faultless	Fuel grade does not comply with specifications
	Wrong valve clearance
	Injection line leaks
	Defective fuel injector
	Dirty fuel filter
	Very dirty air filter
	Air in fuel system
Engine overheats. Temperature warning system responds.	Lube oil level too low
	Lube oil level too high
	Dirty air filter/defective exhaust gas turbocharger
	Dirty cooler fins
	Defective fan, torn or loose V-belts
	Resistance in cooling system too high, flow capacity too low
	Defective fuel injector
	Not enough coolant
	Defective coolant pump

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Wiring diagrams and wiring harnesses include all options.

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Pos.	Description
A	Pilot control port X4
B	Mechanical zero-position setting
C	Speed-sensitive control valve
D	P supply (right-hand side joystick)
E	High pressure limiting valve
F	Pilot control port X4
G	Housing vent

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1.2 Radiator cover overview



Pos.	Description	For more information see page
62	Combined radiator	
63	Expansion tank	3-19
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65	Type label	1-4
66	Radiator cover	

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6.25 Wiring diagram (legend)

No.	Description	Section	
B1	Fuel level indicator	E8 (1)	
B2	Horn	C2 (2)	
B3	Backup warning system	E8/9 (1)	Option
B15	Coolant level	E6 (1)	
B18	Diodes (warning buzzer unit)	B/C 5/6 (1)	
B19	Quickhitch warning buzzer	B6 (2)	
E1	Front right parking light	D2/3 (2)	
E2	Rear right light	D5 (2)	
E3	Front left parking light	E2/3 (2)	
E4	Rear left light	E5 (2)	
E5	Low beam (right)	D2/3 (2)	
E6	Low beam (left)	E2/3 (2)	
E7	Rear working light	C1 (2)	Option
E9	Front working light	C1 (2)	
E10	Front working light	C1 (2)	
E14	Interior light	C3 (2)	
E15	Cigarette lighter	B3 (1)	
E16	Numberplate light	D5 (2)	
F1	Main fuse	D1 (1)	
F2	Main fuse	D1 (1)	
F3	Indicating instruments, alternator, starting relay	A3 (1)	
F4	Valves	A8	
F5	Working lights	A1 (1)	
F6	Lights according to STVO Austrian road traffic regulations	A3 (1)	
F7	Turn indicators	A4/5 (1)	
F8	Hazard warning system	A4 (1)	
F9	Cigarette lighter	A3 (1)	
F10	Rotating beacon	A2 (2)	Option
F11	Valves option	A6 (2)	Option
F12	Attachments 1	A9 (2)	Option
F13	Attachments 2	A10 (2)	Option
F14	Attachments 3	A10 (2)	Option
F15	Heating	A11 (2)	Option
F16	Air conditioning	A13 (2)	Option
F17	Wiper	A13 (2)	
F18	Spare		
G1	Alternator	E4 (1)	
G2	Battery	E1 (1)	
H24	Front right turn indicator	D3 (2)	
H25	Rear right turn indicator	D5 (2)	
H26	Front left turn indicator	E3 (2)	
H27	Rear left turn indicator	E5 (2)	
H28	Rotating beacon	C2 (2)	Option
K5	Preheating relay	E1/2 (1)	
K7	Start high current relay	D2 (1)	
K10	Turn indicator relay	C5 (2)	
K11	Air conditioning relay	C12 (2)	Option
K16	Attachment control 1 relay	C8 (2)	Option
K17	Attachment control 2 relay	C9 (2)	Option
K18	Attachment control 3 relay	C10 (2)	Option
K34	Load stabiliser relay	C7/8 (2)	Option
K36	2nd speed relay	B13/14 (1)	
M1	Starter	E2 (1)	
M2	Wiper	D14 (2)	
M4	Heating	E11 (2)	Option
M5	Washer pump	D13 (2)	
M12	Air conditioning fan	E13 (2)	Option
N3	Preheating time control unit	C1/2 (1)	
R1	Glow plug	E2 (1)	
R8	Glow plug	E2 (1)	
S1	Preheating start switch	A/B1/2 (1)	
S2	Engine oil pressure switch	E5 (1)	
S3	Engine temperature switch	E5 (1)	
S4	Air filter pressure switch	D6/7 (1)	
S5	Hydraulic oil pressure switch	E7 (1)	
S6	Hydraulic oil temperature switch	E7 (1)	
S8	Battery master switch	E1 (1)	
S11	Parking brake pressure switch	E8 (1)	
S12	Turn indicator switch	E4/5 (2)	
S14	Light switch	B3/4 (2)	
S15	Heating switch	A/B11 (2)	Option
S16	Working light switch	A/B1 (2)	
S18	Rotating beacon switch	A/B2 (2)	Option
S19	Hazard warning switch	B4/5 (2)	
S20	Wiper switch	C13/14 (2)	
S21	2nd speed tip switch	C13 (1)	
S26	Boost pump pressure switch	E5 (1)	
S28	Work hydraulics circuit breaker	B9 (1)	Option
S29	Safety switch	B8 (1)	
S30	Attachment controls 1 tip switch	B8 (2)	Option
S31	Attachment controls 2 tip switch	B9 (2)	Option
S32	Parallel lift switch	B10 (1)	
S33	Power Flow switch	B12 (1)	
S34	Attachment controls 3 tip switch	B10 (2)	Option
S36	Rear outrigger switch	B7 (2)	Option
S40	Quickhitch switch	B6 (2)	
S43	Backup warning system switch	D8/9 (1)	Option
S44	Load stabiliser tip switch	B7/8 (2)	Option
S51	Air conditioning switch	A/B12 (2)	Option
S52	Air conditioning pressure switch	E12 (2)	Option
S54	Air conditioning thermostat	D12 (2)	Option
S55	Horn tip switch	C13/14 (1)	
S65	Parking brake switch	B11 (1)	
S78	Accumulator pressure switch (H controls)	C/D9 (1)	Option
S83	Speed Control valve switch	B10/11 (1)	
Y1	Cutoff solenoid	E4 (1)	
Y2	Speed Control valve	C10/11 (1)	
Y3	2nd speed valve	E14 (1)	
Y13	Drive safety valve	E9 (1)	
Y13.1	Work safety valve	E10 (1)	
Y20	Load stabiliser valve	E8 (2)	Option
Y21	Load stabiliser valve	E8 (2)	Option
Y25	Quickhitch valve	E6 (2)	Option
Y30	Minus compensation	E3 (1)	
Y31	Electro-magnetic clutch compressor	E12 (2)	
Y33	Power Flow I valve	E12 (1)	
Y34	Power Flow II valve	E12 (1)	
Y43	Parking brake magnet	E11 (1)	
Y55	Rear outrigger valve	E7 (2)	Option
Y60	Charge air pressure valve (turbocharger)	E3 (1)	
Y61	EGR valve	E3 (1)	
Y76	Parallel lift magnet	E10 (1)	
Y77	Parallel lift magnet	E11 (1)	
U1	Amplifier	C5/6 (1)	

Wiring diagram (legend)

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