

VOLVO MC110 Manual Repair
1. MC 110 SERIES
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VOLVO MC110 Parts Catalog



VOLVO SKID STEER LOADER

MC110

- (34.1 kW) 86 hp 4-cylinder diesel engine
- (1043 kg) 2,300 lb operating capacity
- (3472 kg) 7,654 lb operating weight
- Superior breakout force and axle torque
- Powerful (77 lpm) 20.3 gpm hydraulic pump for fast cycle times, more power to run

- optional attachments
- Optional (104 lpm) 27.6 gpm hydraulic pump for high flow attachments
- Forward tilting BOOM/DOPS cab allows quick and easy access to engine/driver train
- Swing out rear door, hinged engine cover, lift out floor panel
- Welded unitized frame, modular axles, corrosion-resistant lithium and tilt pins

- Adjustable drive chains
- Lubeflexable universal joint for efficient engine-to-transmission power transfer
- Extra wide operator compartment
- Easy entrance and exit
- Easy-to-read gauge/warning light panel
- Conventional hand and foot controls standard, optional hands only controls
- QuickAttach system for most attachments

The MC110 in detail

Engine

Manufacturer	Perkins 1004.42
Cylinders	4
Fuel type	Diesel
Displacement	(4.2 l) 258 cu in
Cooling system	Liquid-cooled
Maximum	
Gross @ 2400 rpm	(34 kW) 86 hp
Peak torque	(200 lbf-ft) 221 ft-lb @ 1,400 rpm
Bore	(103 mm) 4.1 in
Stroke	(127 mm) 5.0 in
Speeds	
Fast, no load (min.)	2,450 rpm
Rated	2,400 rpm
Idle, no load (min.)	1,500 rpm

Electrical system

Alternator	55 amp
Battery	190 CCA
System protection	40 amp circuit breaker
Starter	(2.8 kW) 1.2V

Drivetrain

Type (pumps)	(16 cu-in) 2.8 in³/rev displacement
Type (motor)	(803 cu-in) 49 in³/rev displacement

Axis torque	(5047 lbf-ft) 6,320 ft-lb
Axis diameter	(6.7 cm) 2.6 in
Chain size	100 HV
Parking brakes	per foot

Hydraulic system

Lift Cylinders	
Bore	(7.0 cm) 2.8 in
Stroke	(80.6 cm) 31.8 in
Rod size	(1.1 cm) 1.6 in
Tilt Cylinders	
Bore	(7.6 cm) 3.0 in
Stroke	(45.4 cm) 17.9 in
Rod size	(1.8 cm) 1.5 in
Pump flow @ rated rpm	(77 lpm) 20.3 gpm
High pump flow @ rated rpm	(104 lpm) 27.6 gpm
Relief pressure (max.)	(186/15 kpsi) 2,700 psi

Service fill capacities

Cooling system	(15.5 l) 4.1 gal
Engine crankcase (with filter)	(70.4 l) 18.5 gal
Fuel tank	(80 l) 21.2 gal
Hydraulic system	(54 l) 14.3 gal
Chain case	(8.7 l) 2.3 gal

Performance

Rated operating capacity	(1043 kg) 2,300 lb
Tipping capacity	(2006 kg) 4,400 lb
Approx. operating weight (SAC)*	(3472 kg) 7,654 lb
Travel speed	(0-4.5 km/h) 0-4.5 mph
Cycle times	
Lift raising time	4.8 sec
Lift lowering time	3.0 sec
Tilt dumping time	3.0 sec
Tilt outreach time	3.3 sec

SAC, Rated equipment

Full fuel tank	
(75 kg) 165 lb operator	
(1829 mm) 72" det bucket	
12.00 x 16.5 - 10 ply 140 tires	

VOLVO

Volvo Mc80 Mc90 Mc110 Skid Steer Service Manual

The Volvo logo is a horizontal light blue bar with a rounded right end. To the right of the bar is a red circular graphic with a white center, resembling a stylized wheel or a target.

Volvo

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