

Manitou Access Platform 165 Atj Service Sec Wat

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ACCESS PLATFORM 165 ATJ

REPAIRS MANUAL

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1st ISSUE DATE

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CATALOGUE INFORMATION

ISSUE DATE

OBSERVATION

CATALOGUE INFORMATION	ISSUE DATE	OBSERVATION

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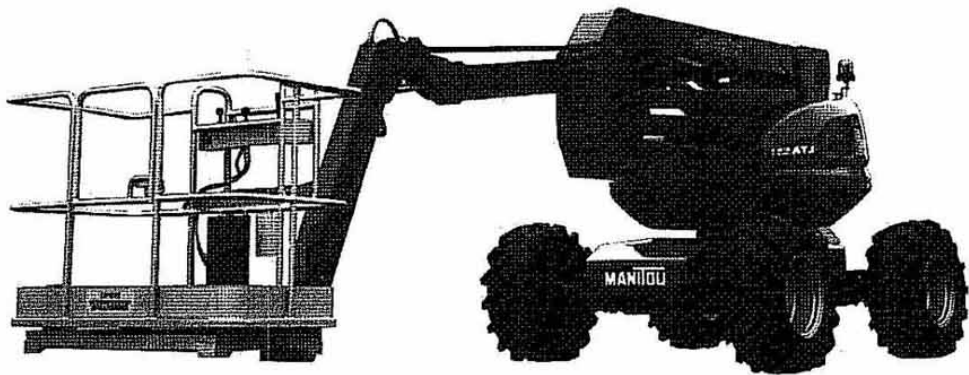
GROUPS 0

GENERAL POINTS

TECHNICAL CHARACTERISTICS

165 ATJ

0-1-M.53 EN



CHARACTERISTICS

ENGINE

- Type
- Number of cylinders
- Number of strokes
- Injection system
- Ignition sequence
- Rocker arm clearance (hot)
 - . Inlet
 - . Exhaust
- Capacity
- Bore
- Stroke
- Volumetric ratio
- Nominal running speed
- Idle speed
- Full speed
- Power BS.AU 141 to 1971
- Power ISO/TR 14396
- Power ISO 3046-1 : 1995
- Maximum torque
- Air cleaner

PERKINS 903-27 diesel

3 in line
4
Direct
1.2.3.

0,20 mm
0,45 mm
2700 cm³
95 mm
127 mm
17.5:1
2100 rpm
1200 rpm
2310 rpm
39,5 kw (2100 rpm)
38,5 kw (2100 rpm)
37 kw (2100 rpm)
190 Nm (1200 rpm)
Dry 3 microns

COOLING CIRCUIT

- Type
- Fan
 - . Number of blades
 - . Diameter
- Thermostat
 - . Start opening
 - . Full opening

By water
Suction
6
406,4 mm

80 / 84°C
96°C

ELECTRIC CIRCUIT

- Earth
- Battery
- Alternator
- Tension regulator
- Starter

Négative
12 V - 105 A
14 V - 55 A
Built into the alternator
12 V - 2,2 kw

HYDROSTATIC TRANSMISSION

HYDROSTATIC PUMP

- Type
- Gear reverser
- Main pump
 - . MAX. displacement
 - . MINI. displacement
 - . MAX. flow rate
 - . Working pressure
- Boost pump
 - . Cubic capacity
 - . MAX. flow rate
 - . Boost pressure MAX. r.p.m.
- Filtration
 - . Suction

A10VG45 variable displacement with
automatic power regulation
12V electromagnetic

45 cm³
0 cm³
94 L/min
350 Bar

8,4 cm³
17,64 L/min
25 Bar (Neutral transmission).

10 Microns

HYDROSTATIC ENGINE

- Type

A2FM à cylindrée fixe

AUXILIARY HYDRAULIC CIRCUIT

- Pump type	Gear pump
. Displacement	22 cm ³
- Lifting circuit, tilt, telescope, steering, rotation	
. Flow rate at full speed unladen	46 L/min
. Pressure	200 Bar
- Filtration	
. Pressure	10 Microns

BOARD FUSES

BOARD 1

- F1	10A
- F2	10A
- F3	10A
- F4	10A
- F5	3A
- F6	1A

BOARD 2

- F1	16A
- F2	16A
- F3	3,15A

165 ATJ

SPECIFICATIONS

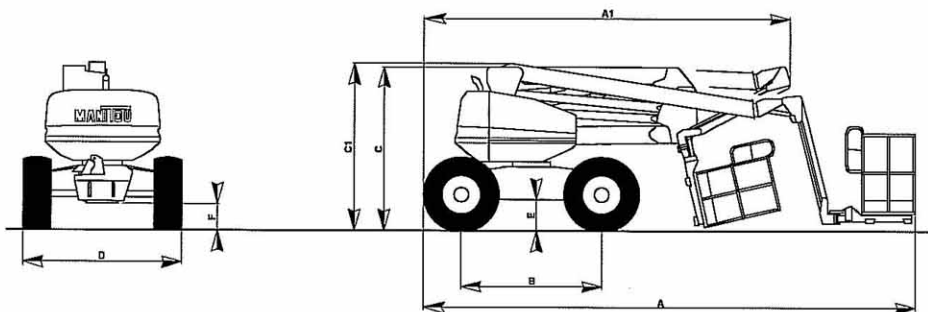
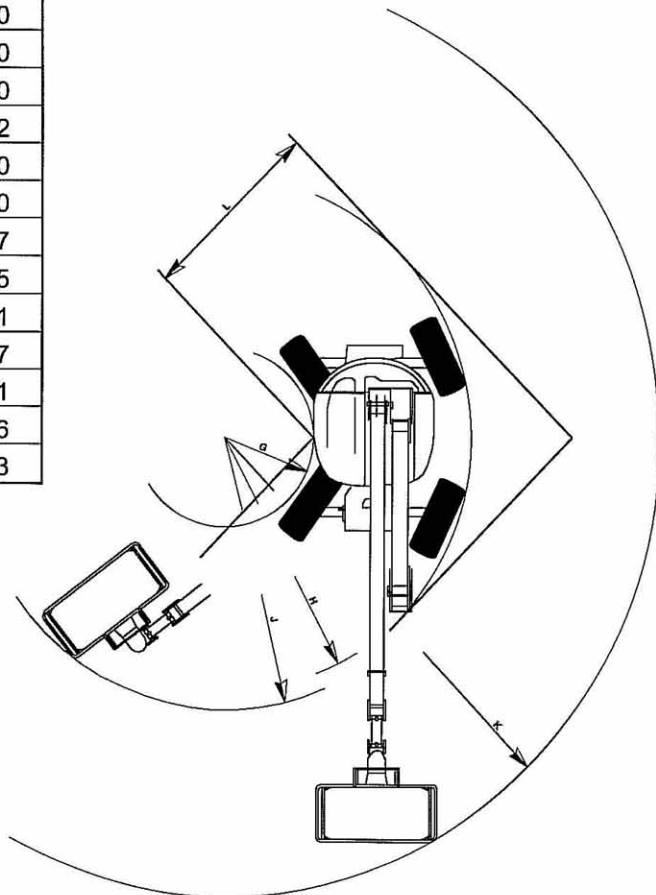
- Use	Interior and exterior
- Capacity	250 Kg including 2 persons
- Weight of on-board fittings allowed :	
. With one person in the basket	170 kg
. With two persons in the basket	90 kg
- Hydrostatic transmission	4 drive wheels 4 steering wheels
- Turret rotation	Continuous
- Travel speed of the access platform	
. Forward	0 to 6 km/h
. Reverse	0 to 6 km/h
- Working height	16 600 mm
- Floor height	14 600 mm
- Offset maxi	10 443 mm
- Access platform weight	
. Unladen	8450 Kg
. Rated load	8700 Kg
- Number of speed	2
- Maximum slope	35%
- Ground clearance under chassis	447 mm
- Ground clearance under axle	375 mm
- Maximum authorized wind speed	45 km/h
- Admissible maximum tipping	9% or 5°
- Maximum allowed horizontal manual force	40 daN
- 1 daN = 1kg	

FRONT AND REAR TYRES

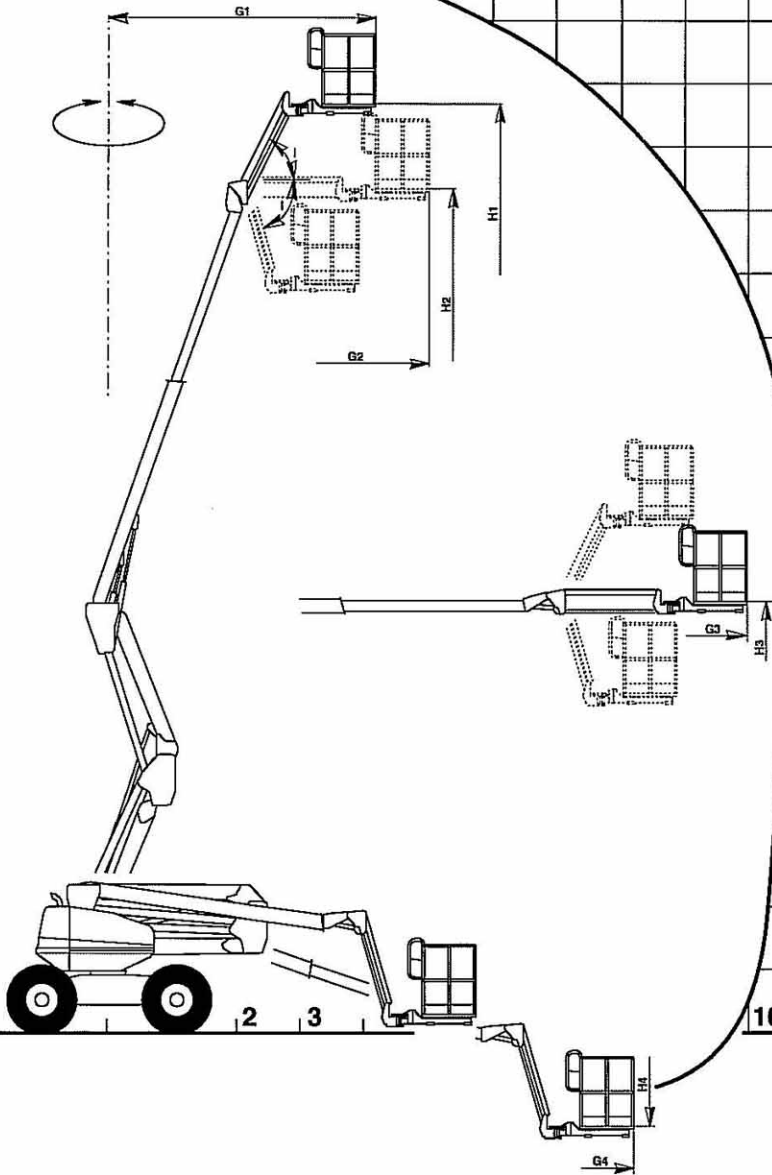
DIMENSIONS	PRESSURE	LOADED BY		WITH MAX; LOAD +, OFFCENTRING ON 1 WHEEL
		PNEUMATIC	UNLOADED	
400 / 70 - 20	Mousse	AR	AV	5600 kg
		4405Kg	4045Kg	

DIMENSIONS 165 ATJ

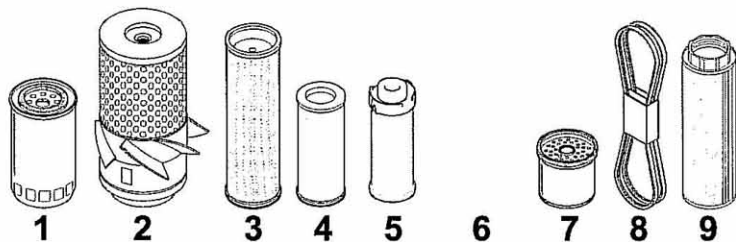
	165 ATJ
A	7310
A1	5450
B	2100
C	2342
C1	2380
D	2360
E	447
F	375
G	1321
H	3667
J	3841
K	6476
L	2733



3	2	1	0	1	2	3	4	5	6	7	8	9	10	11	12
															18
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															1
3						2	3								10
															11
															12



FILTERING ELEMENTS AND BELTS



DESIGNATION	REFERENCE	CLEAN	CHANGE
1 - Thermic engine oil filter	211 384		400 H
2 - Dry air filter cartridge	177 129	50 H	400 H
3 - Safety dry air filter cartridge	177 178		800 H
4 - Hydrostatic transmission oil filter cartridge <i>(UP TO MACHINE 503 789)</i>	519 856		800 H
Hydrostatic transmission oil filter cartridge <i>(FROM MACHINE 503 790)</i>	518 250		800 H
5 - Auxiliary hydraulic oil filter cartridge	518 251		400 H
6 - Diesel Pre-filter	592 385		400 H
7 - Fuel filter cartridge	49 660		400 H
8 - Fan belt	561 299		
9 - Suction strainer for hydraulic oil tank	77 402	800 H	

GROUPS 10

I.C. ENGINE

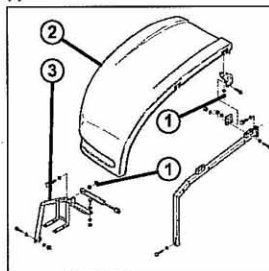
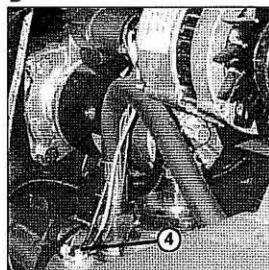
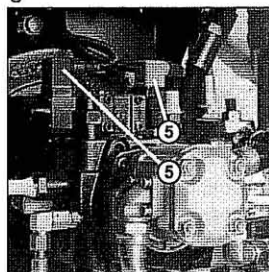
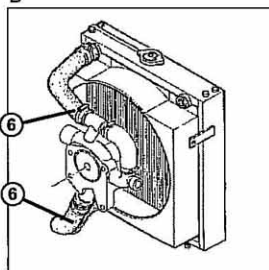
REMOVING 900 SERIES ENGINE
165ATJ
10-2-12-M.53 EN

- Put out the crankcase:

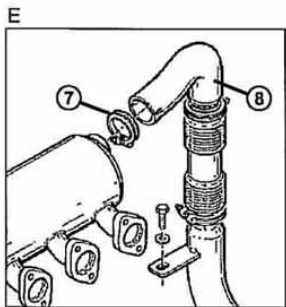
- unscrew the nuts mark. 1 (Fig. A) of the hinges and of the pneumatic spring in order to free the crankcase.(10 mm wrench).
- dismantle the reinforcing piece mark 3 (Fig. A) in order to free the place. (13 mm wrench)

- Cut out the power supply (batterie cut out).**- Mark and disconnect the electric power supply:**

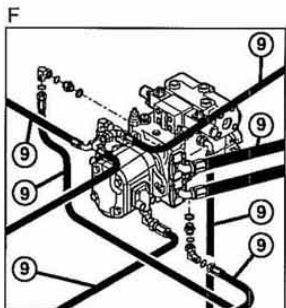
- alternator, starter, water temperature sensor, preheating, engine oil pressure, engine stop...

- Plug out the earth wire mark 4 (Fig. B) near the alternator. (13 mm wrench)**- Plug out the electric plug rep. 5 (Fig. C) of the hydrostatic pump with a screwdriver.****- Place a receptable under the frame und put out the water hoses mark 6 (Fig. D).****A****B****C****D**

- Dismantle the clip mark. 7 (Fig. E) and free the connection piece from its place.



- Mark the seven hoses mark 9 (Fig. F), plug them out and seal them.



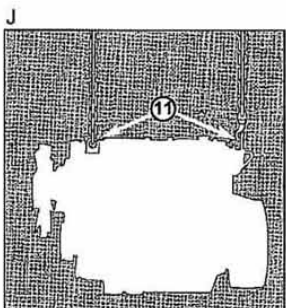
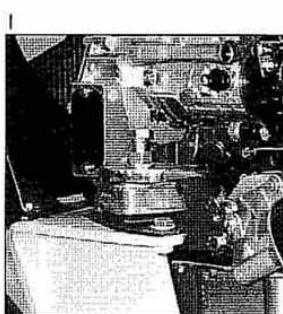
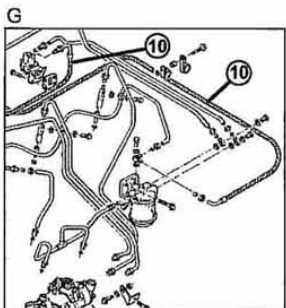
- Mark the feed hoses and back on the tank rep. 10 (Fig. G).

- Plug them out and seal them. (17 mm wrench)

- Put out the screw of the engine supports, 2 front (Fig. H) and 2 rear (Fig. I). (24 mm wrench).

- Sling the engine on the support clips mark 11 (Fig. J) designed for that purpose.

- Lightly lift the engine, .move the whole in order to free the radiator fan propeller. The engine can be put down.



DISMANTLING 900 SERIES ENGINE
165ATJ
10-3-12 EN

Perkins 900 Series

WORKSHOP MANUAL

**3 cylinder, naturally aspirated, diesel engine for
agricultural and industrial use**

*This publication is written in
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PACE

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