



**HD 801 B Cage**

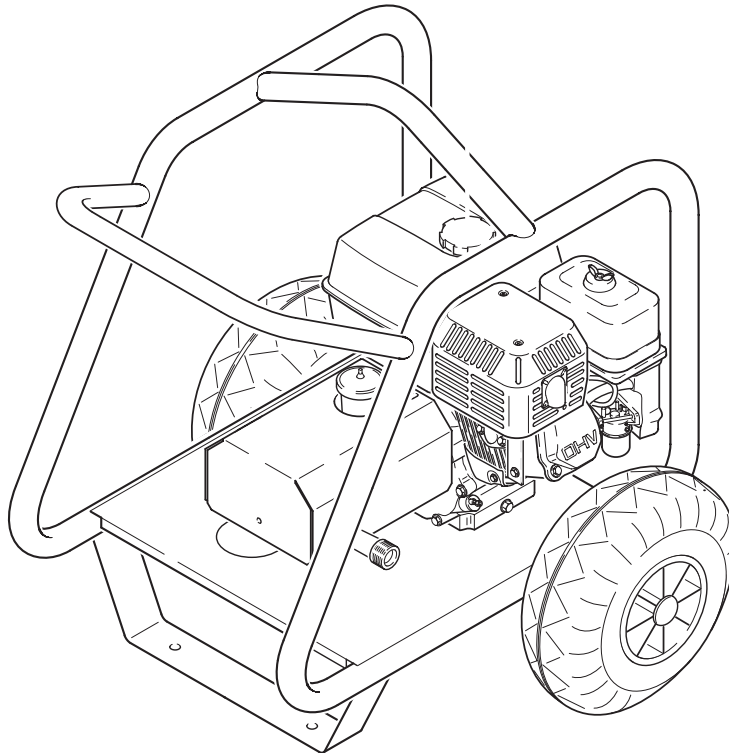
New Unit Information

International Service Information

Dec. 22nd, 1999

# HD 801 B Cage

1.187-109

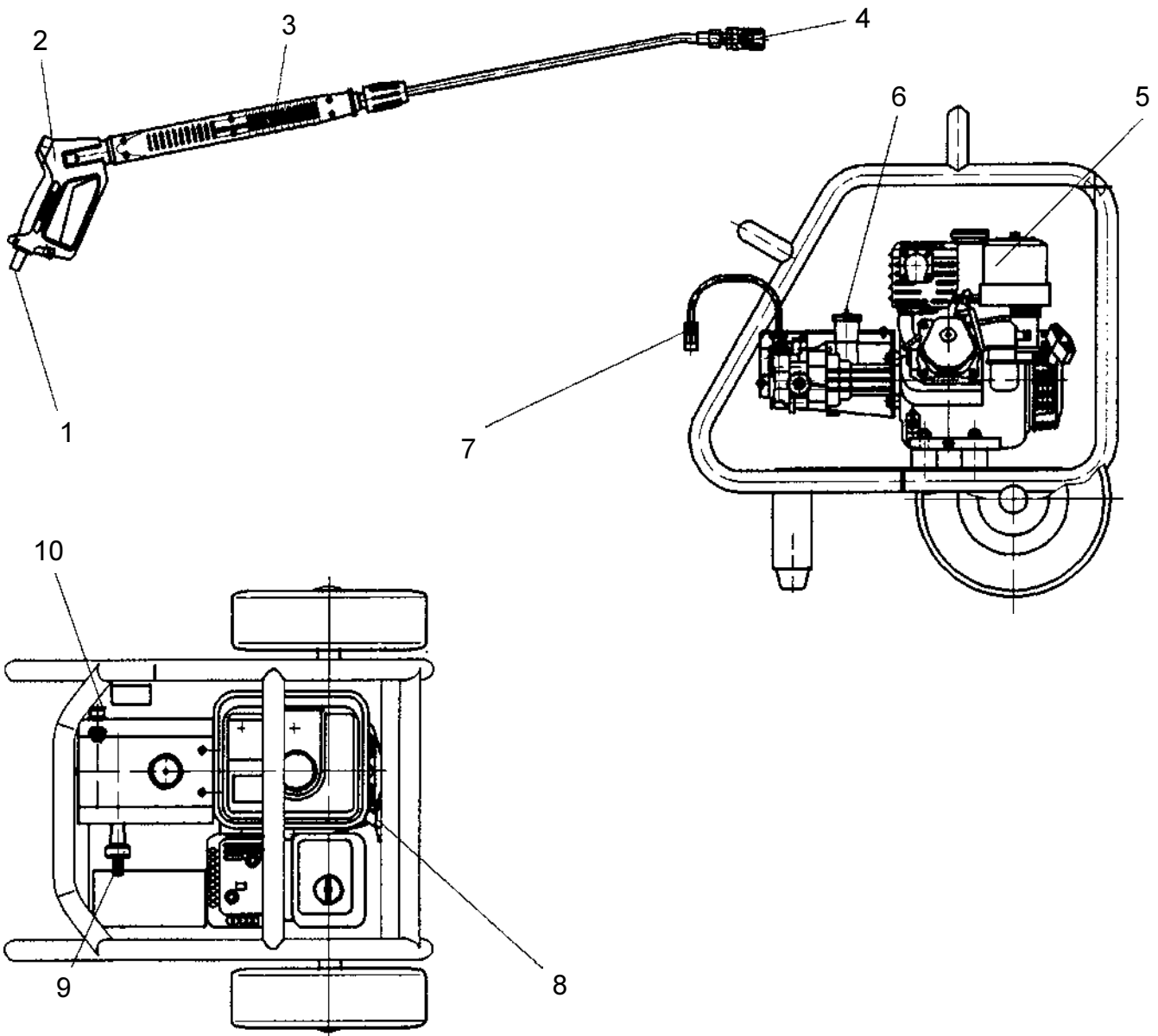


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**Equipment**

- 1 High-pressure hose
- 2 Handgun with pressure gauge
- 3 Spray lance
- 4 Three-way nozzle
- 5 Fuel tank
- 6 Oil reservoir (high-pressure pump)

- 7 Cleaning agent suction hose with filter and metering valve
- 8 Recoil hand starter
- 9 Water inlet
- 10 High-pressure connection

**HD 801 B Cage****New Unit Information****International Service Information****Dec. 22nd, 1999****Technical features****General**

The HD 801 B Cage is the same as HD 801 B 1.187-101 (Service Information No. 1998-020 dated April 9th, 1999), but has an additional frame.

**Drive**

- Honda GX 160, 1-cylinder, 4-phase
- Air-cooled
- Recoil hand start

**High-pressure pump**

- Similar to HD 525 S
- 3-piston axial pump
- Piston made of stainless steel (diameter: 12 mm)
- High-pressure seals, oil seals
- Cylinder head made of brass
- Suction and pressure valves made of stainless steel
- Swash plate with axial ball bearing
- Injector to cleaning agent supply
- Pressure gauge at handgun
- Safety valve at cylinder head
- Temperature sensor at cylinder head to protect the high-pressure pump during circulation operation. When the cylinder head temperature increases above 80° C, the ignition is short-circuited and the engine is turned off automatically.

**Cleaning agent system**

- Cleaning agent supply only in low-pressure mode (injector)
- Non-return valve at cylinder head
- Cleaning agent suction hose with filter and metering valve

**Standard accessory**

- Handgun without servopress
- Spray lance with three-way nozzle (0°, 25°, 40°)



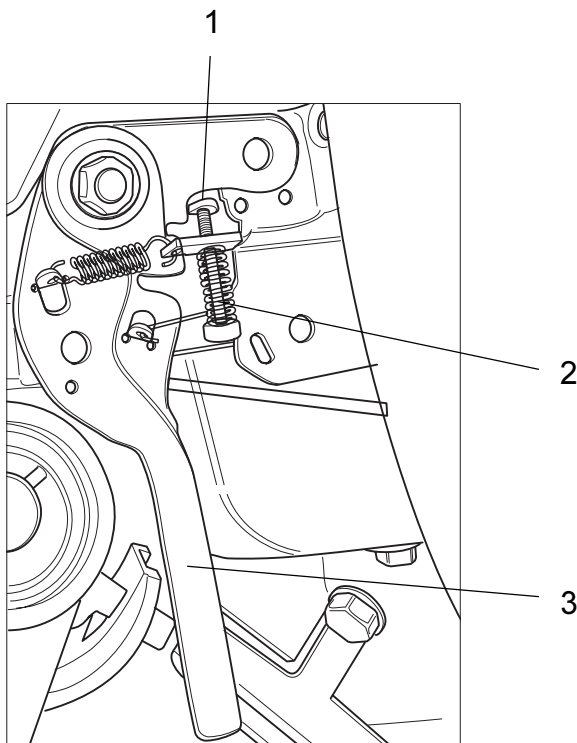
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### Basic setting : operating speed



- 1 Lever stop
- 2 Adjusting screw
- 3 Throttle lever

#### Note:

The operating speed of the engine can only be adjusted during high pressure (max. operating pressure / flow rate).

- Connect shut-off valve with testing pressure gauge, open the handgun completely, set the three-way nozzle to 0° pencil jet and operate the unit.
- Set throttle lever (3) to stop on max. operating speed and measure the engine r.p.m. with the r.p.m. tester. The operating speed is limited by the adjusting screw (2) and the lever stop (1).
- Measure operating pressure and flow rate (see technical data).
- The given operating speed (see technical data) must be achieved and adjusted for max. operating pressure and flow rate. If required, tighten throttle lever (3) and lever stop (1), check for damage and adjust adjusting screw (2).
- The pump pressure decreases (circulation operation) and the engine r.p.m. increases when the handgun is closed. Check max. allowable circulation speed (see technical data). Adjust operating speed if required.
- Finally seal the adjusting screw (2).



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### Troubleshooting

Problem	Remedy
Engine does not start.	Check / clean fuel system. Check / replace spark plug. Check oil level. Check / adjust ignition system.
Engine r.p.m. fluctuates.	Check / clean / replace air filter. Eliminate leakages in high-pressure system: Handgun, high-pressure hose, cleaning agent system, overflow valve, valve seat of the ball. Check / clean fuel quality and fuel filter.
Low operating pressure and flow rate	Check / replace high-pressure nozzle. Check / clean water inlet filter. Check / adjust engine r.p.m. Eliminate leakages in high-pressure system (as mentioned above). Replace suction and pressure valves. Replace high-pressure seals.
Pump does not draw in any cleaning agent.	Clean cleaning agent system and eliminate leakages. Cleaning agent metering valve at cleaning agent hose is not correctly adjusted. High-pressure hose is too long or its inner diameter too small.  <b>Note:</b> <b>Cleaning agent is only drawn in during low-pressure operation (three-way nozzle set on "CHEM").</b>



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### Technical data

unit	technical data	circuit diagram	operating instructions	maintenance booklet	spare parts list
HD 801 B Cage Engine: Honda GX 160	1.187-109	-	5.959-270	-	5.958-484

The technical data sheet is on the next edition of the Spare Parts CD-ROM (DISIS) and in the Intranet (KMN), folder: "Central / Service Info Int'l / Technical Data".

Further operating instructions and spare parts lists can be ordered with the corresponding part number from our Spare Parts Dept.

### Special tools

Shut-off valve	4.580-034
Testing pressure gauge	4.742-025
R.p.m. tester (mechanical)	6.491-361
R.p.m. tester (digital)	6.803-012
Valve pliers	4.901-062
Mounting mandrel for high-pressure / oil seals	2.901-034
2 mounting screws M6 x 16	6.303-194

### Torques

Cylinder head screws	18 - 23 Nm
Fastening screws for swash plate	8 -10 Nm
Cleaning agent connection	2 - 3 Nm
Injector	1,5 - 2,5 Nm