

2 Safety Information

This manual contains DANGER, WARNING, CAUTION, *NOTICE* and NOTE callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE: Used without the safety alert symbol, **NOTICE** indicates a hazardous situation which, if not avoided, could result in property damage.

Note: *Contains additional information important to a procedure.*

2.1 Operating Safety

Notice: State Health Safety Codes and Public Resources Codes specify that in certain locations spark arresters be used on internal combustion engines that use hydrocarbon fuels. A spark arrester is a device designed to prevent accidental discharge of sparks or flames from the engine exhaust. Spark arresters are qualified and rated by the United States Forest Service for this purpose.

In order to comply with local laws regarding spark arresters, consult the engine distributor or the local Health and Safety Administrator.



Familiarity and proper training are required for the safe operation of the machine. Machines operated improperly or by untrained personnel can be dangerous. Read the operating instructions contained in both this manual and the Engine Manual and familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the machine before being allowed to operate it.

- 2.1.1 DO NOT drive over curbs or other uneven objects that will result in the machine and operator being shaken.
- 2.1.2 DO NOT attempt to start the machine when standing alongside it. Only start the engine when seated in the driver's seat and with the forward/reverse control in the neutral position.
- 2.1.3 NEVER allow anyone to operate this equipment without proper training. People operating this equipment must be familiar with the risks and hazards associated with it.
- 2.1.4 NEVER touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause burns.
- 2.1.5 NEVER use accessories or attachments that are not recommended by Wacker. Damage to equipment and injury to the user may result.
- 2.1.6 NEVER leave the machine running unattended.
- 2.1.7 NEVER operate the machine with the fuel cap loose or missing.
- 2.1.8 NEVER carry passengers on the machine. Danger of crushing—keep clear of the articulated steering joint between the front and rear frames.
- 2.1.9 NEVER use or attempt to repair damaged safety belts or ROPS. Replace only with Wacker spare parts.
- 2.1.10 ALWAYS disengage and stow the locking bar for the articulated steering joint before operating the machine. The machine cannot be steered when the locking bar is engaged.
- 2.1.11 ALWAYS check that all controls are functioning properly immediately after start-up! DO NOT operate the machine unless all controls operate correctly.

- 2.1.12 ALWAYS remain aware of changing positions and the movement of other equipment and personnel on the job site.
- 2.1.13 ALWAYS remain seated and wear the seat belt at all times while operating the machine.
- 2.1.14 ALWAYS remain aware of changing surface conditions and use extra care when operating over uneven ground, on hills, or over soft or coarse material. The machine could shift or slide unexpectedly.
- 2.1.15 ALWAYS use caution when operating the machine near the edges of pits, trenches or platforms. Check to be sure that ground surface is stable enough to support the weight of the machine with operator and that there is no danger of the roller sliding, falling or tipping.
- 2.1.16 ALWAYS wear protective clothing appropriate to the job site when operating the machine.
- 2.1.17 ALWAYS keep hands, feet, and loose clothing away from moving parts of the machine.
- 2.1.18 ALWAYS read, understand, and follow procedures in the Operator's Manual before attempting to operate the machine.
- 2.1.19 ALWAYS store the machine properly when it is not being used. The machine should be stored in a clean, dry location out of the reach of children.
- 2.1.20 ALWAYS operate the machine with all safety devices and guards in place and in working order.
- 2.1.21 ALWAYS be sure that all other persons are at a safe distance from the machine. Stop the machine if people step into the working area of the machine.

2.2 Operator Safety while using Internal Combustion Engines



DANGER

Internal combustion engines present special hazards during operation and fueling. Read and follow the warning instructions in the engine Owner's Manual and the safety guidelines below. Failure to follow the warnings and safety standards could result in severe injury or death.

- 2.2.1 DO NOT smoke while operating the machine.
- 2.2.2 DO NOT smoke when refueling the engine.
- 2.2.3 DO NOT refuel a hot or running engine.
- 2.2.4 DO NOT refuel the engine near an open flame.
- 2.2.5 DO NOT spill fuel when refueling the engine.
- 2.2.6 DO NOT run the engine near open flames.
- 2.2.7 DO NOT run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas from the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause loss of consciousness and may lead to death.
- 2.2.8 ALWAYS refill the fuel tank in a well-ventilated area.
- 2.2.9 ALWAYS replace the fuel tank cap after refueling.
- 2.2.10 ALWAYS keep the area around a hot exhaust pipe free of debris to reduce the chance of an accidental fire.
- 2.2.11 ALWAYS check the fuel lines and the fuel tank for leaks and cracks before starting the engine. Do not run the machine if fuel leaks are present or the fuel lines are loose.

2.3 Service Safety

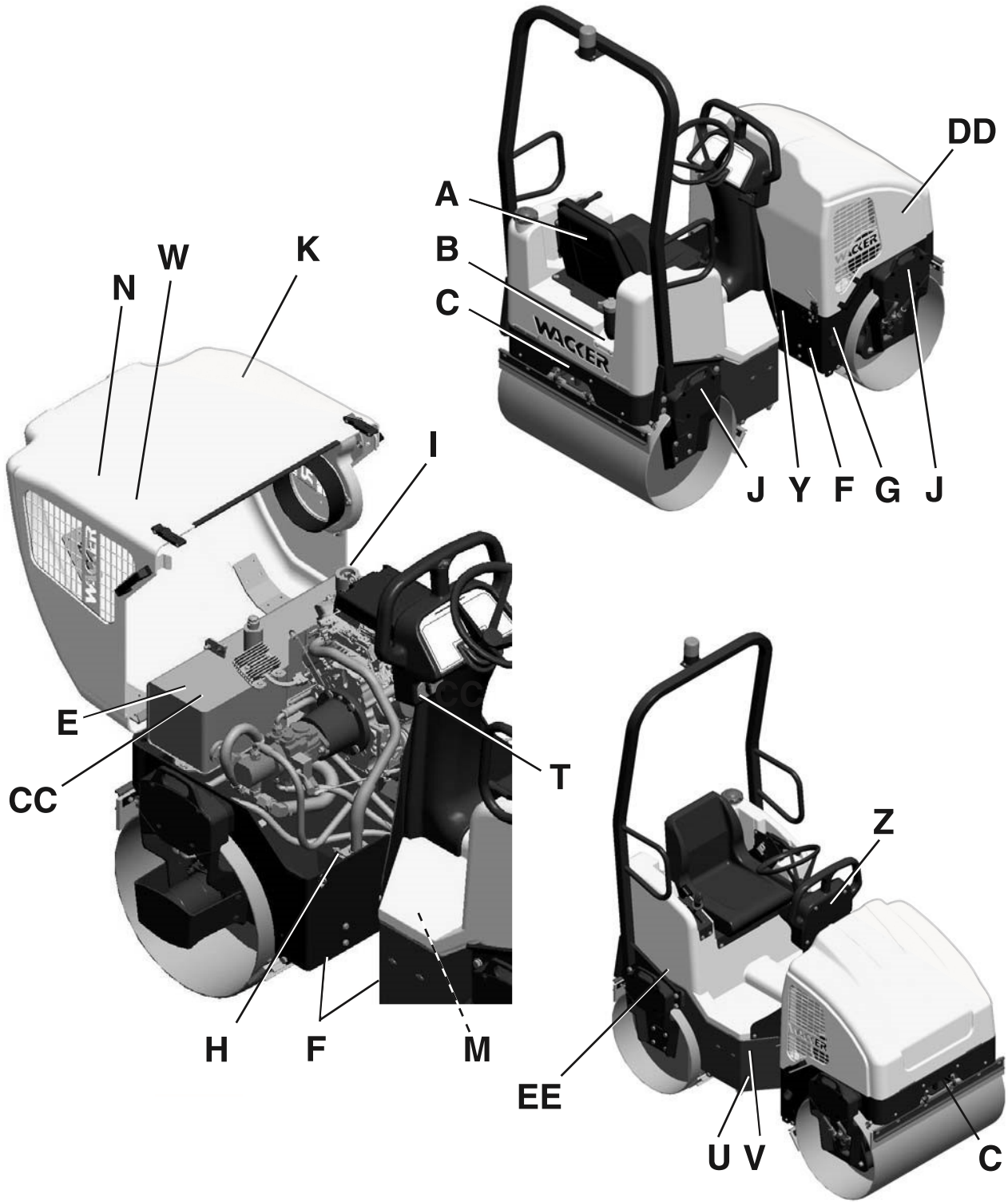
**WARNING**

A poorly maintained machine can become a safety hazard! In order for the machine to operate safely and properly over a long period of time, periodic maintenance and occasional repairs are necessary.

- 2.3.1 Some service procedures require that the machine's battery be disconnected. To reduce the risk of personal injury, read and understand the service procedures before performing any service to the machine.
- 2.3.2 All adjustments and repairs **MUST** be completed before operation. **NEVER** operate the machine with a known problem or deficiency! All repairs and adjustments should be completed by a qualified technician.
- 2.3.3 **DO NOT** attempt to clean or service the machine while it is running. Rotating parts can cause severe injury.
- 2.3.4 RD 12 only - **DO NOT** crank a flooded engine with the spark plug removed on gasoline-powered engines. Fuel trapped in the cylinder will squirt out the spark plug opening.
- 2.3.5 RD 12 only - **DO NOT** test for spark on gasoline-powered engines if the engine is flooded or the smell of gasoline is present. A stray spark could ignite the fumes.
- 2.3.6 **DO NOT** use gasoline or other types of fuels or flammable solvents to clean parts, especially in enclosed areas. Fumes from fuels and solvents can become explosive.
- 2.3.7 **DO NOT** modify the machine without the express written approval of the manufacturer.
- 2.3.8 RD 16 only - **DO NOT** remove the radiator cap when the engine is running or hot. The radiator fluid is hot and under pressure and may cause severe burns!
- 2.3.9 **DO NOT** stand under the machine while it is being hoisted or moved.
- 2.3.10 **DO NOT** get onto the machine while it is being hoisted or moved.
- 2.3.11 **DO NOT** use the machine as a ladder. Use safe ladders and platforms designed for this purpose.
- 2.3.12 **DO NOT** modify, weld, or drill safety frames (ROPS) fitted as original equipment. **DO NOT** loosen or remove bolts. **DO NOT** weld, drill or modify a broken safety frame.

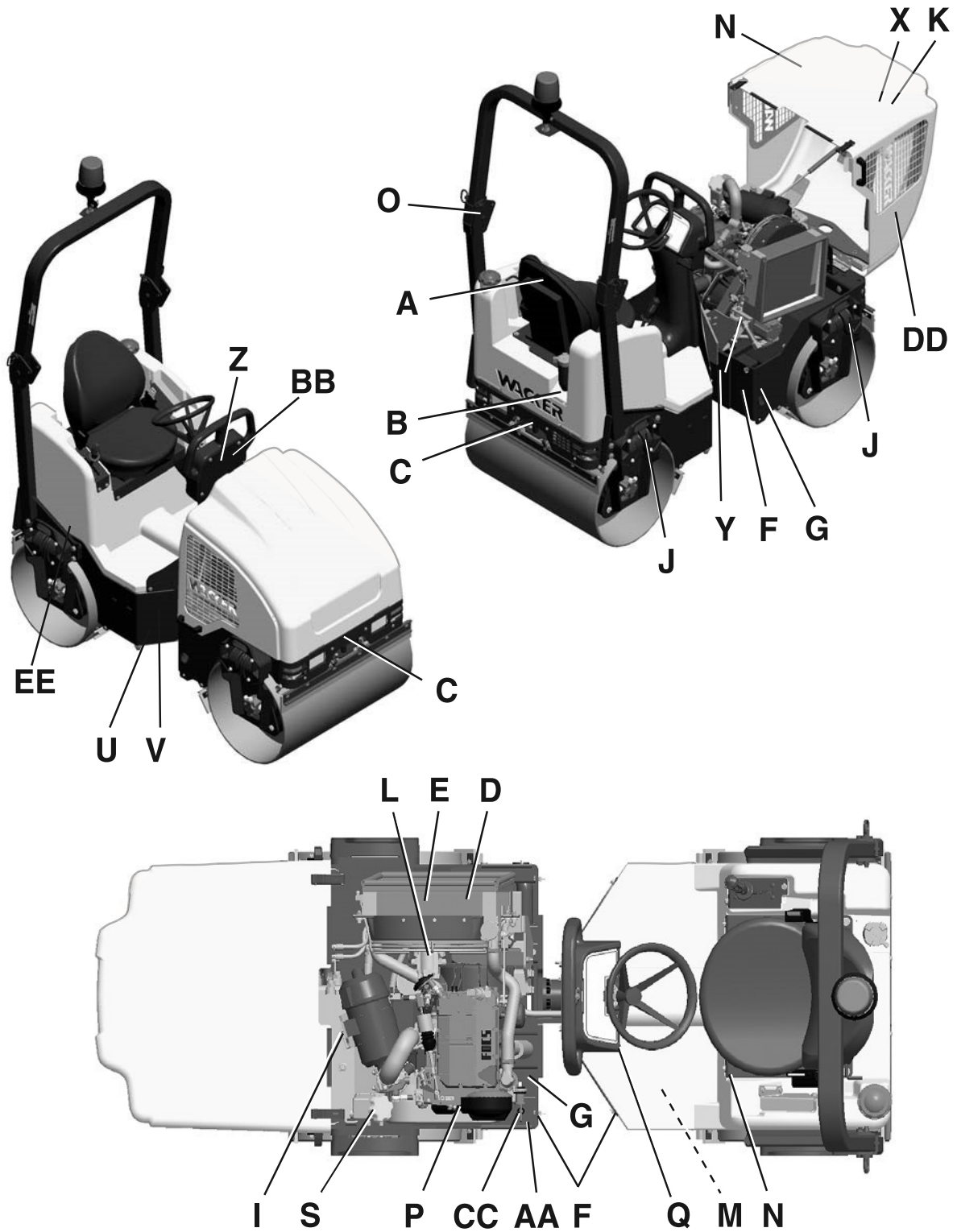
- 2.3.13 DO NOT open the hydraulic lines or loosen the hydraulic connections while the engine is running! Before dismantling the hydraulic connectors or hoses, ensure that all pressure has been bled from the circuit. Hydraulic fluid under pressure can penetrate the skin, cause burns, blind, or create other potentially dangerous hazards. Set all controls in neutral, turn engine off, and allow the fluids to cool before loosening hydraulic fittings or attaching test gauges.
- 2.3.14 ALWAYS check all external fasteners at regular intervals.
- 2.3.15 ALWAYS keep the area around the muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite the debris and start a fire.
- 2.3.16 ALWAYS replace worn or damaged components with spare parts designed and recommended by Wacker Corporation.
- 2.3.17 ALWAYS disconnect the spark plug on machines equipped with gasoline engines, before servicing, to avoid accidental start-up.
- 2.3.18 ALWAYS keep the machine clean and labels legible. Replace all missing and hard-to-read labels. Labels provide important operating instructions and warn of dangers and hazards.
- 2.3.19 ALWAYS do periodic maintenance as recommended in the Operator's Manual.
- 2.3.20 ALWAYS turn the engine off before performing maintenance or making repairs.
- 2.3.21 ALWAYS keep hands, feet and loose clothing away from moving parts.
- 2.3.22 ALWAYS make sure slings, chains, hooks, ramps, jacks and other types of lifting devices are attached securely and have enough weight-bearing capacity to lift or hold the machine safely. Always remain aware of the location of other people in the area when lifting the machine.
- 2.3.23 ALWAYS make sure hose connections have been reconnected back to the correct fitting. Failure to do so may result in damage to the machine and/or injury to person on or near the machine.
- 2.3.24 ALWAYS secure the articulated steering joint using the locking bar before lifting, jacking, and servicing the machine. The machine halves could swing together unexpectedly and cause a serious injury.
- 2.3.25 ALWAYS lock the lifting cylinders in the open position when the seat pedestal is raised.
- 2.3.26 Before you start the machine, ensure that all tools have been removed from the machine and that replacement parts and adjusters are firmly tightened.
- 2.3.27 Fluid leaks from small holes are often practically invisible. DO NOT use your bare hands to check for leaks. Check for leaks using a piece of cardboard or wood.

2.4 Label Locations—RD 12



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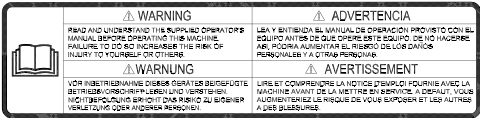
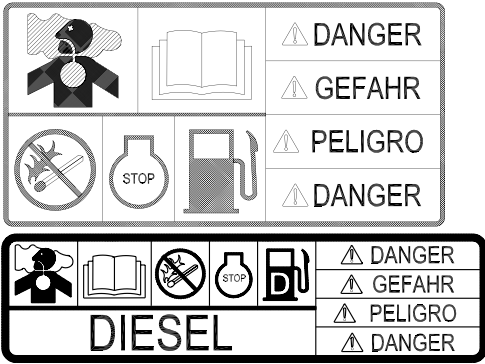
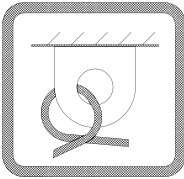

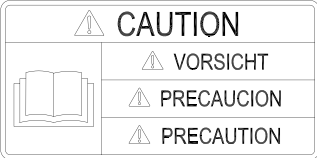
2.5 Label Locations—RD 16



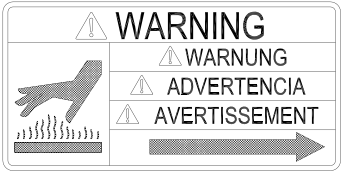
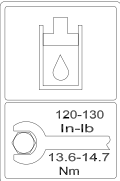

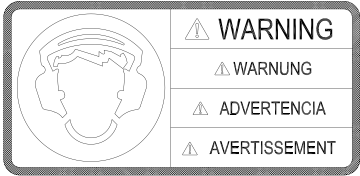




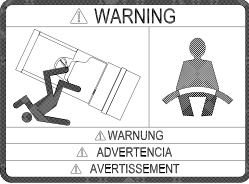


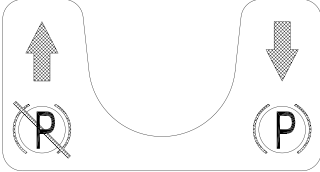
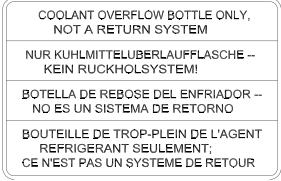
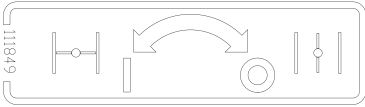
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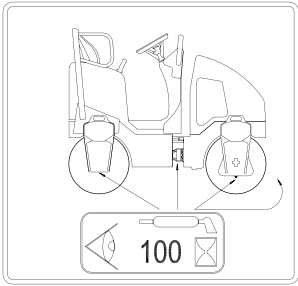
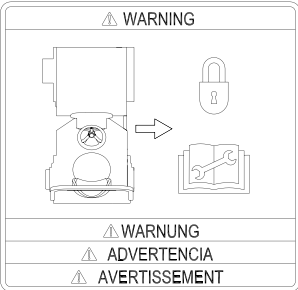
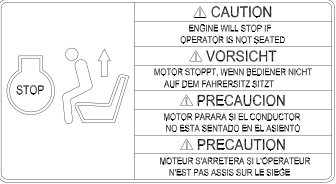
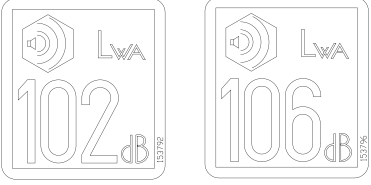
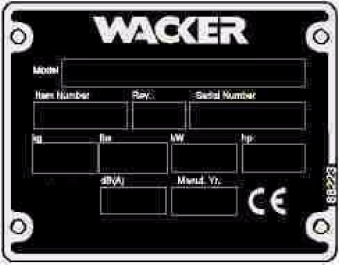
2.6 Safety and Operating Labels

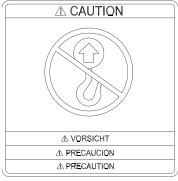
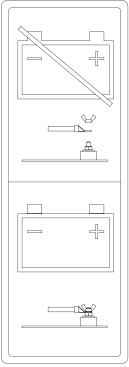
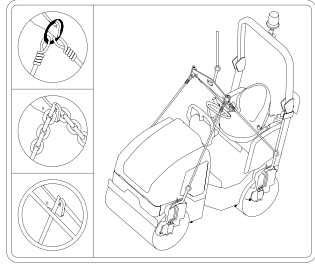


Wacker machines use international pictorial labels where needed. These labels are described below:

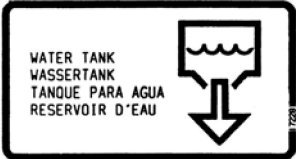
Ref.	Label	Meaning
A		<p>WARNING! Read and understand the supplied Operator's Manual before operating the machine. Failure to do so increases the risk of injury to yourself or others.</p>
B		<p>DANGER! Engines emit carbon monoxide; operate only in well-ventilated area. Read the Operator's Manual. No sparks, flames, or burning objects near the machine. Shut off the engine before refueling.</p>
C		<p>Tie-down point.</p>
D	 <p>110164</p>	<p>WARNING! Pressurized contents. Do not open when hot!</p>
E		<p>CAUTION! Read and understand the supplied Operator's Manuals before operating this machine. Failure to do so increases the risk of injury to yourself or others.</p>

Ref.	Label	Meaning
F		<p>WARNING! Pinch point.</p>
G		<p>WARNING! Hot surface!</p>
H		<p>WARNING! Hot surface!</p>
I		<p>Hydraulic oil reservoir fill tube. Torque nuts to 13.6-14.7 Nm (120-130 in.lbs.) maximum.</p>
J		<p>CAUTION! Lifting point.</p>
K		<p>WARNING! To prevent hearing loss, wear hearing protection when operating this machine.</p>
L		<p>WARNING! Pinching hazard. Rotating machinery.</p>

Ref.	Label	Meaning
M		<p>WARNING! Disconnect battery before servicing. Read repair manual for instructions. Battery contains caustic acid and potentially explosive hydrogen gas.</p>
N		<p>WARNING! Always wear seat belt when operating roller.</p>
O		<p>WARNING! Avoid crushing area.</p>
P		<p>WARNING! Hand injury if entangled in moving belt.</p>
Q		<p>Parking brake is disengaged. Parking brake is engaged.</p>
S		<p>Coolant overflow bottle only, not a return system.</p>
T		<p>Choke: 0 = Open I = Closed</p>

Ref.	Label	Meaning
U		<p>Grease points: Inspect and lubricate every 100 hours of operation.</p>
V		<p>WARNING!</p> <p>Avoid crushing area. Articulated steering joint locking location. Lock the articulated steering joint before servicing the machine. Read Repair Manual.</p>
W		<p>RD 12 only—Engine will stop without operator seated.</p>
X	 <p>RD 12 RD 16</p>	<p>Guaranteed sound power level in dB(A).</p>
Y		<p>A nameplate listing the model number, item number, revision number, and serial number is attached to each unit. Please record the information found on this plate so it will be available should the nameplate become lost or damaged. When ordering parts or requesting service information, you will always be asked to specify the model number, item number, revision number, and serial number of the unit.</p>

Ref.	Label	Meaning
Z		No lift point.
AA		RD 16 only. WARNING! Disconnect battery before servicing.
BB		RD 16 only. Lifting of machine to be done with spreader bar only!
CC		CAUTION! Electric shock hazard at auxiliary battery positive terminal. Never touch this terminal and a metal portion of the machine simultaneously.
DD		WARNING! Read and understand the supplied Operator's Manual before operating the machine. Failure to do so increases the risk of injury to yourself or others.

Ref.	Label	Meaning
EE	 <p>WATER TANK WASSERTANK TANQUE PARA AGUA RESERVOIR D'EAU</p>	Water tank

Notes: